

October 31, 2010

TestAmerica Project Number: G0J210484
PO/Contract: 2027.07

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

Dear Ms. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on October 21, 2010. These samples are associated with your Tronox Henderson Air Monitoring project.

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

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

Sincerely,



DAVID R. ALLTUCKER
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G0J210484

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

AIR, TO-13, Semivolatile Organics

Samples: 10, 12, 15, 16

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

AIR, TO-9, Dioxins/Furans

Samples: 11, 13, 14, 17

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

AIR, Metals by ICPMS (As and Mn)

Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

AIR, TSP-Total Suspended Particulates

Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Raw Data Package

Case Narrative

TestAmerica West Sacramento Project Number G0J210484

AIR, TO-13, Semivolatile Organics

Sample(s): 12, 15, 16

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

AIR, TO-9, Dioxins/Furans

Sample(s): 11, 13, 17

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

Sample(s): 13, 14, 17

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 G0J210484

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
L8VHK	1	DW-10112010B	10/11/2010 06:28 PM	10/21/2010 09:00 AM
L8VHM	2	DW-10122010B	10/12/2010 06:30 PM	10/21/2010 09:00 AM
L8VHN	3	UW-10122010B	10/12/2010 06:18 PM	10/21/2010 09:00 AM
L8VHQ	4	DW-10132010B	10/13/2010 06:50 PM	10/21/2010 09:00 AM
L8VHT	5	UW-10132010B	10/13/2010 06:31 PM	10/21/2010 09:00 AM
L8VHW	6	DW-10142010B	10/14/2010 06:20 PM	10/21/2010 09:00 AM
L8VHX	7	UW-10142010B	10/14/2010 06:03 PM	10/21/2010 09:00 AM
L8VH0	8	UW-10152010B	10/15/2010 05:44 PM	10/21/2010 09:00 AM
L8VH2	9	DW-10182010B	10/18/2010 06:52 PM	10/21/2010 09:00 AM
L8VH4	10	DW-10182010B	10/18/2010 06:48 PM	10/21/2010 09:00 AM
L8VH6	11	DW-10182010B	10/18/2010 06:47 PM	10/21/2010 09:00 AM
L8VH7	12	UW-10182010B	10/18/2010 06:32 PM	10/21/2010 09:00 AM
L8VH8	13	UW-10182010B	10/18/2010 06:30 PM	10/21/2010 09:00 AM
L8VH9	14	UW-10192010B	10/19/2010 04:22 PM	10/21/2010 09:00 AM
L8VJA	15	UW-10192010B	10/19/2010 04:23 PM	10/21/2010 09:00 AM
L8VJD	16	DW-10192010B	10/19/2010 04:42 PM	10/21/2010 09:00 AM
L8VJE	17	DW-10192010B	10/19/2010 04:40 PM	10/21/2010 09:00 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.



300 Frank H. Ogawa Plaza, Ste 510
Oakland, CA 94612 (510) 839-0688

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Name: Test America Laboratories Inc Address: 880 Riverside Parkway West Sacramento, CA 95605 Lab Pk: David Altucher Phone/Fax: (916) 373-4900 Lab Pk email: David.Altucher@testamericainc.com Applicable Lab Codes #:		Required Project Information: Site ID #: 102 TRONOX LLC, HENDERSON Project #: 2027.07 Site Address: 860 W Lake Mead Pkwy Henderson NV, 89015 City: Henderson State: NV Zip: 89015 Site PM Name: Ted Spitzer Phone/Fax: (610) 438-4600 Site PM Email: Ted.Spitzer@tronoxx.com		Required Invoice Information: Send Invoice to: Susan Crowley Tronox LLC Address: PO Box 66 Henderson, NV 89008 Phone #: (949) 260-8293 City/State: Henderson, NV 89008 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		COC #: 2027.07.0012 Total # of Samples: 20 Event Complete?											
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-RAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m ³)	TO-44/Dioxins, Furans	TO-13A/270C/HCB	TSP	9020A/CFMS	Temp in COC	Samples on Ice?	Sample Intact?	Trip Blank?
	DW-10112010B		AA			10/11/2010	6:28 PM	1	1020.32		X	X					
	LW-10112010B		AA			10/11/2010		1	PLEASE DISCARD								
	DW-10122010B		AA			10/12/2010	6:30 PM	1	966.2		X	X					
	LW-10122010B		AA			10/12/2010	6:18 PM	1	1011.37		X	X					
	DW-10132010B		AA			10/13/2010	6:50 PM	1	1032.52		X	X					
	LW-10132010B		AA			10/13/2010	6:31 PM	1	1046.67		X	X					
	DW-10142010B		AA			10/14/2010	6:20 PM	1	1008.75		X	X					
	LW-10142010B		AA			10/14/2010	6:03 PM	1	1013.52		X	X					
	DW-10152010B		AA			10/15/2010		1	PLEASE DISCARD								
	LW-10152010B		AA			10/15/2010	5:44 PM	1	968.76		X	X					
	DW-10182010B		AA			10/18/2010	6:52 PM	1	1006.77		X	X					
	LW-10182010B		AA			10/18/2010	6:48 PM	1	637.12								
	DW-10182010B		AA			10/18/2010	6:47 PM	1	837.12		X						
	LW-10182010B		AA			10/18/2010	6:32 PM	1	866.15								
	DW-10182010B		AA			10/18/2010	6:30 PM	1	843.24		X						
	LW-10182010B		AA			10/18/2010		1	PLEASE DISCARD								
	TORN FILTER					10/20/2010		1	PLEASE DISCARD								
	INVALID SAMPLE (ton101510-53)					10/20/2010		1	PLEASE DISCARD								
	INVALID SAMPLE (ton092310-80)					10/20/2010		1	PLEASE DISCARD								
	LW-10182010B		AA			10/19/2010	4:22 PM	1	557.84		X						
	LW-10182010B		AA			10/19/2010	4:23 PM	1	576.52		X						
Additional Comments/Special Instructions: 3-5 DAY TURN AROUND Ronda S. Bailey 10/20/10/12/10 10/20/10/12/10 Cheng Jie MALUS DATE SIGNATURE: 10/20/10 Ronda Bailey SIGNATURE OF SAMPLER: Ronda Bailey TIME: 12:00																	



300 Frank H. Ogawa Plaza, Ste 510
Oakland, CA 94612 (510) 839-0688

Required Ship to Lab:
Lab Name: **Test Americas Laboratories Inc**
Address: **680 Riverdale Parkway**
West Sacramento, CA 95608
Lab Pk: **David Altucher**
Phone/Fac: **(916) 373-6600**
Lab Pk email: **David.Altucher@testamericainc.com**
Applicable Lab Quote #: **Ted.Spratler@tronoxx.com**

Required Project Information:
Site ID #: **102**
Project #: **2027.07**
Site Address: **660 W Lake Mead Pkwy**
City: **Henderson** State: **NV** Zip: **89015**
Site Pk Name: **Ted Spratler**
Phone/Fax: **(810) 435-4809**
Site Pk Email: **Ted.Spratler@tronoxx.com**

Required Invoice Information:
Send Invoice to: **Susan Crowley Tronoxx LLC.**
Address: **PO Box 66**
City/State: **Henderson, NV 89009** Phone #: **(848) 390-8283**
PO #:

Send EDD to: **Frank.Hagar@ngem.com**
CC Handcopy report to: **PDF Electronic Version Only - FTP Upload**
CC Handcopy report to: **See Additional Comments Below**

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m ³)
	DW-10192010B		AA			10/19/2010	4:42 PM	1	556.34
	DW-10192010B		AA			10/19/2010	4:40 PM	1	555.55

Additional Comment/Special Instructions:
3-8 DAY TURN AROUND

Print Name of Sampler: *Ronda Bailey*
Signature of Sampler: *Ronda Bailey*
Date of Sampling: *10/19/10*

COC # 2027.07.0012
Total # of Samples: 20
Event Complete?

Regular	Rush	5 day	Mark One

TO-BA/DO/WH, Furns
TO-13A/8270C/HCB
TSP
6020/A/1/CFMS

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

CLIENT Northgate PM DA LOG # 67707

LOT# (QUANTIMS ID) G0J210484 QUOTE# 84087 LOCATION WI4D AC
Checked (✓)

DATE RECEIVED 10/21/10 TIME RECEIVED 0900

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) NA

SHIPPING CONTAINER(S) TAL CLIENT N/A

COC #(S) 2027.07.0012

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)
Observed: 4 Average 4 Corrected Average 4

LABORATORY THERMOMETER ID:
IR UNIT: #4 #5 OTHER _____

Initials CV Date 10/21/10

pH MEASURED YES ANOMALY N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW _____ NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

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

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH N/A

APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

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

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

Initials CV Date 10/21/10

Notes _____

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

Lot ID: 40J210484

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

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

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

AIR, TO-13, Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 010	Work Order #....:	L8VH41AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/21/10	Analysis Date....:	10/28/10	Volume....:	637.12
Prep Batch #:	0294378	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.0093 J	0.016	0.0020	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		61	60 - 120	
2-Fluorobiphenyl		80	58 - 105	
2-Fluorophenol		71	41 - 105	
Nitrobenzene-d5		73	46 - 118	
Phenol-d5		80	43 - 122	
Terphenyl-d14		87	69 - 110	
2,4,6-Tribromophenol		98	61 - 118	

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10182010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 012	Work Order #....: L8VH71AA	Matrix....: AA
Date Sampled....: 10/18/10	Date Received....: 10/21/10	Dilution Factor....: 1
Prep Date....: 10/21/10	Analysis Date....: 10/27/10	Volume....: 665.15
Prep Batch #: 0294378	Instrument ID....: 5MH	Method....: EPA-2 TO-13
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Kenny Q. Truong	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.015	0.0020	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		45		60 - 120
2-Fluorobiphenyl		74		58 - 105
2-Fluorophenol		65		41 - 105
Nitrobenzene-d5		69		46 - 118
Phenol-d5		76		43 - 122
Terphenyl-d14		80		69 - 110
2,4,6-Tribromophenol		93		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-10192010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 015	Work Order #....:	L8VJA1AA	Matrix....:	AA
Date Sampled....:	10/19/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/21/10	Analysis Date....:	10/27/10	Volume....:	576.52
Prep Batch #:	0294378	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.017	0.0023	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		47	*	60 - 120
2-Fluorobiphenyl		80		58 - 105
2-Fluorophenol		66		41 - 105
Nitrobenzene-d5		73		46 - 118
Phenol-d5		75		43 - 122
Terphenyl-d14		85		69 - 110
2,4,6-Tribromophenol		95		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-10192010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 016	Work Order #....: L8VJD1AA	Matrix....: AA
Date Sampled....: 10/19/10	Date Received....: 10/21/10	Dilution Factor....: 1
Prep Date....: 10/21/10	Analysis Date....: 10/27/10	Volume....: 556.34
Prep Batch #: 0294378	Instrument ID....: 5MH	Method....: EPA-2 TO-13
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Kenny Q. Truong	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.031	0.018	0.0023	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		50	60 - 120	
2-Fluorobiphenyl		77	58 - 105	
2-Fluorophenol		66	41 - 105	
Nitrobenzene-d5		73	46 - 118	
Phenol-d5		74	43 - 122	
Terphenyl-d14		86	69 - 110	
2,4,6-Tribromophenol		96	61 - 118	

QUALIFIERS

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G0J210484

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
002	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
003	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
004	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
005	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
006	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
007	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
008	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
009	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
010	AA	EPA-2 TO-13		0294378	
011	AA	EPA-2 TO-9		0294289	
012	AA	EPA-2 TO-13		0294378	
013	AA	EPA-2 TO-9		0294289	
014	AA	EPA-2 TO-9		0294289	
015	AA	EPA-2 TO-13		0294378	
016	AA	EPA-2 TO-13		0294378	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0J210484

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>
017	AA	EPA-2 TO-9		0294289	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0J210000 - 378B	Work Order #....:	L8WGC1AA	Matrix....:	AIR
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/21/10	Analysis Date....:	10/27/10	Volume....:	0
Prep Batch #:	0294378	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	10.0	1.3	ug
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		77	60 - 120	
2-Fluorobiphenyl		67	58 - 105	
2-Fluorophenol		59	41 - 105	
Nitrobenzene-d5		64	46 - 118	
Phenol-d5		65	43 - 122	
Terphenyl-d14		83	69 - 110	
2,4,6-Tribromophenol		91	61 - 118	

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J210484	Work Order # ...: L8WGC1AC-LCS	Matrix : AIR
LCS Lot-Sample# : G0J210000 - 378	L8WGC1AD-LCSD	
Prep Date : 10/21/10	Analysis Date ..: 10/27/10	
Prep Batch # ...: 0294378		
Dilution Factor : 1		
Analyst ID.....: Kenny Q. Truong	Instrument ID..: 5MH	Method.....: EPA-2 TO-13
Initial Wgt/Vol: 1 Sample		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
Hexachlorobenzene	100	90.8	ug	91	(70 - 110)		
	100	90.2	ug	90	(70 - 110)	0.74	(0 - 30)
<u>SURROGATE</u>			<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl			82		(58 - 105)		
			78		(58 - 105)		
2-Fluorophenol			70		(41 - 105)		
			72		(41 - 105)		
Nitrobenzene-d5			79		(46 - 118)		
			75		(46 - 118)		
Phenol-d5			77		(43 - 122)		
			77		(43 - 122)		
Terphenyl-d14			85		(69 - 110)		
			83		(69 - 110)		
2,4,6-Tribromophenol			95		(61 - 118)		
			95		(61 - 118)		

Notes:

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

Bold print denotes control parameters

AIR, TO-9, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 011
 Date Sampled....: 10/18/10
 Prep Date....: 10/21/10
 Prep Batch #: 0294289
 Initial Wgt/Vol : 1 Sample

Work Order #....: L8VH61AA
 Date Received....: 10/21/10
 Analysis Date....: 10/29/10
 Dilution Factor....: 2
 Analyst ID....: Grandfield S. Virginia

Matrix....: AA
 Instrument ID....: 4D5
 Volume....: 637.12
 Units.....: pg/m3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	12 J	20	1.0	0.019
Total TCDD	360	20		
1,2,3,7,8-PeCDD	36 J	100	1.0	0.057
Total PeCDD	400	100		
1,2,3,4,7,8-HxCDD	25 J	100	0.1	0.0039
1,2,3,6,7,8-HxCDD	47 J	100	0.1	0.0074
1,2,3,7,8,9-HxCDD	40 J	100	0.1	0.0063
Total HxCDD	320	100		
1,2,3,4,6,7,8-HpCDD	170 B	100	0.01	0.0027
Total HpCDD	260	100		
OCDD	200 J B	200	0.0003	0.000094
2,3,7,8-TCDF	300 CON	20	0.1	0.047
Total TCDF	4100	20		
1,2,3,7,8-PeCDF	440	100	0.03	0.021
2,3,4,7,8-PeCDF	240	100	0.3	0.11
Total PeCDF	3700	100		
1,2,3,4,7,8-HxCDF	820 B	100	0.1	0.13
1,2,3,6,7,8-HxCDF	710	100	0.1	0.11
2,3,4,6,7,8-HxCDF	170	100	0.1	0.027
1,2,3,7,8,9-HxCDF	95 J B	100	0.1	0.015
Total HxCDF	4900	100		
1,2,3,4,6,7,8-HpCDF	2400 B	100	0.01	0.038
1,2,3,4,7,8,9-HpCDF	960	100	0.01	0.015
Total HpCDF	4800	100		
OCDF	6000	200	0.0003	0.0028
Total TEQ Concentration				0.61

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 011
Date Sampled....: 10/18/10
Prep Date....: 10/21/10
Prep Batch #: 0294289
Initial Wgt/Vol : 1 Sample

Work Order #....: L8VH61AA Matrix....: AA
Date Received....: 10/21/10 Instrument ID....: 4D5
Analysis Date....: 10/29/10 Volume....: 637.12
Dilution Factor....: 2 Units.....: pg/m3
Analyst ID....: Grandfield S. Virginia

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	89	50 - 120
13C-1,2,3,7,8-PeCDD	88	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	83	40 - 120
13C-2,3,7,8-TCDF	84	50 - 120
13C-1,2,3,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	79	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120

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

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- CON Confirmation analysis.
- J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 011	Work Order #....:	L8VH61AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	637.12
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.019 J	0.031	0.0030	pg/m3
Total TCDD	0.57	0.031	0.0030	pg/m3
1,2,3,7,8-PeCDD	0.056 J	0.16	0.0060	pg/m3
Total PeCDD	0.63	0.16	0.0060	pg/m3
1,2,3,4,7,8-HxCDD	0.038 J	0.16	0.0047	pg/m3
1,2,3,6,7,8-HxCDD	0.073 J	0.16	0.0042	pg/m3
1,2,3,7,8,9-HxCDD	0.063 J	0.16	0.0041	pg/m3
Total HxCDD	0.51	0.16	0.0042	pg/m3
1,2,3,4,6,7,8-HpCDD	0.27 B	0.16	0.0049	pg/m3
Total HpCDD	0.41	0.16	0.0049	pg/m3
OCDD	0.31 J B	0.31	0.0067	pg/m3
2,3,7,8-TCDF	0.47 CON	0.031	0.0041	pg/m3
Total TCDF	6.4	0.031	0.0061	pg/m3
1,2,3,7,8-PeCDF	0.68	0.16	0.020	pg/m3
2,3,4,7,8-PeCDF	0.37	0.16	0.022	pg/m3
Total PeCDF	5.8	0.16	0.020	pg/m3
1,2,3,4,7,8-HxCDF	1.3 B	0.16	0.030	pg/m3
1,2,3,6,7,8-HxCDF	1.1	0.16	0.028	pg/m3
2,3,4,6,7,8-HxCDF	0.27	0.16	0.030	pg/m3
1,2,3,7,8,9-HxCDF	0.15 J B	0.16	0.033	pg/m3
Total HxCDF	7.6	0.16	0.030	pg/m3
1,2,3,4,6,7,8-HpCDF	3.7 B	0.16	0.011	pg/m3
1,2,3,4,7,8,9-HpCDF	1.5	0.16	0.014	pg/m3
Total HpCDF	7.6	0.16	0.013	pg/m3
OCDF	9.4	0.31	0.017	pg/m3

INTERNAL STANDARDS

PERCENT RECOVERY

RECOVERY LIMITS

13C-2,3,7,8-TCDD	89	50 - 120
13C-1,2,3,7,8-PeCDD	88	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	83	40 - 120
13C-2,3,7,8-TCDF	84	50 - 120
13C-1,2,3,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	79	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120

SURROGATE

PERCENT RECOVERY

RECOVERY LIMITS

37Cl4-2,3,7,8-TCDD	104	50 - 120
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Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 011	Work Order #....:	L8VH61AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	637.12
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- CON Confirmation analysis.
- J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10182010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 013
Date Sampled....: 10/18/10
Prep Date....: 10/21/10
Prep Batch #: 0294289
Initial Wgt/Vol : 1 Sample

Work Order #....: L8VH81AA
Date Received....: 10/21/10
Analysis Date....: 10/29/10
Dilution Factor....: 2
Analyst ID....: Grandfield S. Virginia

Matrix....: AA
Instrument ID....: 4D5
Volume....: 643.24
Units....: pg/m3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	6.6	20		
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	6.3 J B	100	0.01	0.000098
Total HpCDD	13	100		
OCDD	23 J Q B	200	0.0003	0.000011
2,3,7,8-TCDF	11 J CON	20	0.1	0.0017
Total TCDF	190	20		
1,2,3,7,8-PeCDF	12 J	100	0.03	0.00056
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	84	100		
1,2,3,4,7,8-HxCDF	16 J Q B	100	0.1	0.0025
1,2,3,6,7,8-HxCDF	12 J Q	100	0.1	0.0019
2,3,4,6,7,8-HxCDF	2.8 J Q	100	0.1	0.00044
1,2,3,7,8,9-HxCDF	1.9 J B	100	0.1	0.00030
Total HxCDF	92	100		
1,2,3,4,6,7,8-HpCDF	52 J B	100	0.01	0.00081
1,2,3,4,7,8,9-HpCDF	18 J	100	0.01	0.00028
Total HpCDF	98	100		
OCDF	110 J	200	0.0003	0.000051
Total TEQ Concentration				0.0086

Northgate Environmental Management, Inc.

Sample ID: UW-10182010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J210484 - 013	Work Order #....:	L8VH81AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Instrument ID....:	4D5
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	643.24
Prep Batch #:	0294289	Dilution Factor....:	2	Units.....:	pg/m3
Initial Wgt/Vol :	1 Sample	Analyst ID....:	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	93	50 - 120
13C-1,2,3,7,8-PeCDD	97	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	87	40 - 120
13C-2,3,7,8-TCDF	90	50 - 120
13C-1,2,3,7,8-PeCDF	98	50 - 120
13C-1,2,3,4,7,8-HxCDF	82	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	86	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	103	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-10182010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 013	Work Order #....: L8VH81AA	Matrix....: AA
Date Sampled....: 10/18/10	Date Received....: 10/21/10	Dilution Factor....: 2
Prep Date....: 10/21/10	Analysis Date....: 10/29/10	Volume....: 643.24
Prep Batch #: 0294289	Instrument ID....: 4D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Grandfield S. Virginia	

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND		0.031	0.0039	pg/m3
Total TCDD	0.010		0.031	0.0039	pg/m3
1,2,3,7,8-PeCDD	ND		0.16	0.0039	pg/m3
Total PeCDD	ND		0.16	0.0044	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.16	0.0028	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.16	0.0025	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.16	0.0025	pg/m3
Total HxCDD	ND		0.16	0.0070	pg/m3
1,2,3,4,6,7,8-HpCDD	0.0098	J B	0.16	0.0031	pg/m3
Total HpCDD	0.020		0.16	0.0031	pg/m3
OCDD	0.036	J Q B	0.31	0.0033	pg/m3
2,3,7,8-TCDF	0.017	J CON	0.031	0.0036	pg/m3
Total TCDF	0.29		0.031	0.0039	pg/m3
1,2,3,7,8-PeCDF	0.018	J	0.16	0.0058	pg/m3
2,3,4,7,8-PeCDF	ND		0.16	0.0059	pg/m3
Total PeCDF	0.13		0.16	0.0058	pg/m3
1,2,3,4,7,8-HxCDF	0.026	J Q B	0.16	0.0017	pg/m3
1,2,3,6,7,8-HxCDF	0.019	J Q	0.16	0.0017	pg/m3
2,3,4,6,7,8-HxCDF	0.0043	J Q	0.16	0.0017	pg/m3
1,2,3,7,8,9-HxCDF	0.0029	J B	0.16	0.0020	pg/m3
Total HxCDF	0.14		0.16	0.0019	pg/m3
1,2,3,4,6,7,8-HpCDF	0.080	J B	0.16	0.0033	pg/m3
1,2,3,4,7,8,9-HpCDF	0.028	J	0.16	0.0039	pg/m3
Total HpCDF	0.15		0.16	0.0036	pg/m3
OCDF	0.17	J	0.31	0.0070	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	93	50 - 120
13C-1,2,3,7,8-PeCDD	97	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	87	40 - 120
13C-2,3,7,8-TCDF	90	50 - 120
13C-1,2,3,7,8-PeCDF	98	50 - 120
13C-1,2,3,4,7,8-HxCDF	82	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	86	40 - 120

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

Northgate Environmental Management, Inc.

Sample ID: UW-10182010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 013	Work Order #....:	L8VH81AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	643.24
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10192010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 014
Date Sampled....: 10/19/10
Prep Date....: 10/21/10
Prep Batch #: 0294289
Initial Wgt/Vol : 1 Sample

Work Order #....: L8VH91AA
Date Received....: 10/21/10
Analysis Date....: 10/29/10
Dilution Factor....: 2
Analyst ID....: Grandfield S. Virginia

Matrix....: AA
Instrument ID....: 4D5
Volume....: 557.94
Units....: pg/m3

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	4.1 J Q B	100	0.01	0.000073
Total HpCDD	8.4	100		
OCDD	22 J B	200	0.0003	0.000012
2,3,7,8-TCDF	16 Q J	20	0.1	0.0029
Total TCDF	110	20		
1,2,3,7,8-PeCDF	14 J	100	0.03	0.00075
2,3,4,7,8-PeCDF	6.7 J	100	0.3	0.0036
Total PeCDF	87	100		
1,2,3,4,7,8-HxCDF	18 J Q B	100	0.1	0.0032
1,2,3,6,7,8-HxCDF	16 J	100	0.1	0.0029
2,3,4,6,7,8-HxCDF	4.0 J	100	0.1	0.00072
1,2,3,7,8,9-HxCDF	1.8 J Q B	100	0.1	0.00032
Total HxCDF	120	100		
1,2,3,4,6,7,8-HpCDF	67 J B	100	0.01	0.0012
1,2,3,4,7,8,9-HpCDF	21 J Q	100	0.01	0.00038
Total HpCDF	130	100		
OCDF	140 J	200	0.0003	0.000075
Total TEQ Concentration				0.016

Northgate Environmental Management, Inc.

Sample ID: UW-10192010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J210484 - 014	Work Order #....:	L8VH91AA	Matrix....:	AA
Date Sampled....:	10/19/10	Date Received....:	10/21/10	Instrument ID....:	4D5
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	557.94
Prep Batch #:	0294289	Dilution Factor....:	2	Units.....:	pg/m3
Initial Wgt/Vol :	1 Sample	Analyst ID....:	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	91	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	83	40 - 120
13C-2,3,7,8-TCDF	86	50 - 120
13C-1,2,3,7,8-PeCDF	95	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	83	40 - 120

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

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-10192010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 014	Work Order #....: L8VH91AA	Matrix....: AA
Date Sampled....: 10/19/10	Date Received....: 10/21/10	Dilution Factor....: 2
Prep Date....: 10/21/10	Analysis Date....: 10/29/10	Volume....: 557.94
Prep Batch #: 0294289	Instrument ID....: 4D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Grandfield S. Virginia	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.036	0.0054	pg/m3
Total TCDD	ND	0.036	0.0054	pg/m3
1,2,3,7,8-PeCDD	ND	0.18	0.0048	pg/m3
Total PeCDD	ND	0.18	0.0056	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.18	0.0030	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.18	0.0027	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.18	0.0029	pg/m3
Total HxCDD	ND	0.18	0.0038	pg/m3
1,2,3,4,6,7,8-HpCDD	0.0074 J Q B	0.18	0.0043	pg/m3
Total HpCDD	0.015	0.18	0.0043	pg/m3
OCDD	0.040 J B	0.36	0.0030	pg/m3
2,3,7,8-TCDF	0.029 Q J	0.036	0.0052	pg/m3
Total TCDF	0.19	0.036	0.0052	pg/m3
1,2,3,7,8-PeCDF	0.025 J	0.18	0.0052	pg/m3
2,3,4,7,8-PeCDF	0.012 J	0.18	0.0054	pg/m3
Total PeCDF	0.16	0.18	0.0054	pg/m3
1,2,3,4,7,8-HxCDF	0.032 J Q B	0.18	0.0025	pg/m3
1,2,3,6,7,8-HxCDF	0.029 J	0.18	0.0025	pg/m3
2,3,4,6,7,8-HxCDF	0.0072 J	0.18	0.0025	pg/m3
1,2,3,7,8,9-HxCDF	0.0033 J Q B	0.18	0.0029	pg/m3
Total HxCDF	0.21	0.18	0.0027	pg/m3
1,2,3,4,6,7,8-HpCDF	0.12 J B	0.18	0.0041	pg/m3
1,2,3,4,7,8,9-HpCDF	0.038 J Q	0.18	0.0050	pg/m3
Total HpCDF	0.23	0.18	0.0045	pg/m3
OCDF	0.25 J	0.36	0.0082	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	91	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	83	40 - 120
13C-2,3,7,8-TCDF	86	50 - 120
13C-1,2,3,7,8-PeCDF	95	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	83	40 - 120
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	104	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10192010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 014	Work Order #....:	L8VH91AA	Matrix....:	AA
Date Sampled....:	10/19/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	557.94
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

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: DW-10192010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 017
 Date Sampled....: 10/19/10
 Prep Date....: 10/21/10
 Prep Batch #: 0294289
 Initial Wgt/Vol : 1 Sample

Work Order #....: L8VJE1AA
 Date Received....: 10/21/10
 Analysis Date....: 10/29/10
 Dilution Factor....: 2
 Analyst ID....: Grandfield S. Virginia

Matrix....: AA
 Instrument ID....: 4D5
 Volume....: 555.55
 Units....: pg/m3

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	89		20		
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	25		100		
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	8.0		100		
1,2,3,4,6,7,8-HpCDD	8.4	J Q B	100	0.01	0.00015
Total HpCDD	14		100		
OCDD	19	J B	200	0.0003	0.000010
2,3,7,8-TCDF	59	CON	20	0.1	0.011
Total TCDF	1700		20		
1,2,3,7,8-PeCDF	34	J	100	0.03	0.0018
2,3,4,7,8-PeCDF	17	J Q	100	0.3	0.0092
Total PeCDF	380		100		
1,2,3,4,7,8-HxCDF	37	J B	100	0.1	0.0067
1,2,3,6,7,8-HxCDF	28	J	100	0.1	0.0050
2,3,4,6,7,8-HxCDF	7.0	J	100	0.1	0.0013
1,2,3,7,8,9-HxCDF	3.0	J Q B	100	0.1	0.00054
Total HxCDF	190		100		
1,2,3,4,6,7,8-HpCDF	80	J B	100	0.01	0.0014
1,2,3,4,7,8,9-HpCDF	29	J	100	0.01	0.00052
Total HpCDF	160		100		
OCDF	170	J	200	0.0003	0.000092
Total TEQ Concentration					0.038

Northgate Environmental Management, Inc.

Sample ID: DW-10192010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J210484 - 017
Date Sampled....: 10/19/10
Prep Date....: 10/21/10
Prep Batch #: 0294289
Initial Wgt/Vol : 1 Sample

Work Order #....: L8VJE1AA Matrix....: AA
Date Received....: 10/21/10 Instrument ID....: 4D5
Analysis Date....: 10/29/10 Volume....: 555.55
Dilution Factor....: 2 Units....: pg/m3
Analyst ID....: Grandfield S. Virginia

INTERNAL STANDARDS

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,7,8-PeCDD	96	50 - 120
13C-1,2,3,6,7,8-HxCDD	112	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	98	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	99	50 - 120
13C-1,2,3,4,7,8-HxCDF	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 120

SURROGATE

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

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: DW-10192010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 017	Work Order #....: L8VJE1AA	Matrix....: AA
Date Sampled....: 10/19/10	Date Received....: 10/21/10	Dilution Factor....: 2
Prep Date....: 10/21/10	Analysis Date....: 10/29/10	Volume....: 555.55
Prep Batch #: 0294289	Instrument ID....: 4D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Grandfield S. Virginia	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.036	0.0038	pg/m3
Total TCDD	0.16	0.036	0.0038	pg/m3
1,2,3,7,8-PeCDD	ND	0.18	0.0045	pg/m3
Total PeCDD	0.046	0.18	0.0045	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.18	0.0025	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.18	0.0047	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.18	0.0032	pg/m3
Total HxCDD	0.014	0.18	0.0023	pg/m3
1,2,3,4,6,7,8-HpCDD	0.015	J Q B	0.18	pg/m3
Total HpCDD	0.025		0.0022	pg/m3
OCDD	0.034	J B	0.36	pg/m3
2,3,7,8-TCDF	0.11	CON	0.036	pg/m3
Total TCDF	3.0		0.0045	pg/m3
1,2,3,7,8-PeCDF	0.062	J	0.18	pg/m3
2,3,4,7,8-PeCDF	0.030	J Q	0.18	pg/m3
Total PeCDF	0.68		0.0074	pg/m3
1,2,3,4,7,8-HxCDF	0.066	J B	0.18	pg/m3
1,2,3,6,7,8-HxCDF	0.050	J	0.18	pg/m3
2,3,4,6,7,8-HxCDF	0.013	J	0.18	pg/m3
1,2,3,7,8,9-HxCDF	0.0055	J Q B	0.18	pg/m3
Total HxCDF	0.35		0.0025	pg/m3
1,2,3,4,6,7,8-HpCDF	0.14	J B	0.18	pg/m3
1,2,3,4,7,8,9-HpCDF	0.053	J	0.18	pg/m3
Total HpCDF	0.29		0.0034	pg/m3
OCDF	0.31	J	0.36	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,7,8-PeCDD	96	50 - 120
13C-1,2,3,6,7,8-HxCDD	112	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	98	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	99	50 - 120
13C-1,2,3,4,7,8-HxCDF	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 120

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

Northgate Environmental Management, Inc.

Sample ID: DW-10192010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 017	Work Order #....:	L8VJE1AA	Matrix....:	AA
Date Sampled....:	10/19/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/29/10	Volume....:	555.55
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

QUALIFIERS

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

QC DATA ASSOCIATION SUMMARY

G0J210484

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
002	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
003	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
004	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
005	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
006	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
007	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
008	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
009	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
010	AA	EPA-2 TO-13		0294378	
011	AA	EPA-2 TO-9		0294289	
012	AA	EPA-2 TO-13		0294378	
013	AA	EPA-2 TO-9		0294289	
014	AA	EPA-2 TO-9		0294289	
015	AA	EPA-2 TO-13		0294378	
016	AA	EPA-2 TO-13		0294378	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0J210484

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>
017	AA	EPA-2 TO-9		0294289	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J210000 - 289B	Work Order #....: L8V091AA	Matrix....: AIR
Date Sampled....: 10/18/10	Date Received....: 10/21/10	Dilution Factor....: 2
Prep Date....: 10/21/10	Analysis Date....: 10/28/10	Volume....: 0
Prep Batch #: 0294289	Instrument ID....: 4D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Grandfield S. Virginia	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	20	2.2	pg
Total TCDD	ND	20	2.2	pg
1,2,3,7,8-PeCDD	ND	100	2.6	pg
Total PeCDD	ND	100	2.6	pg
1,2,3,4,7,8-HxCDD	ND	100	1.1	pg
1,2,3,6,7,8-HxCDD	ND	100	1.8	pg
1,2,3,7,8,9-HxCDD	ND	100	1.0	pg
Total HxCDD	ND	100	1.8	pg
1,2,3,4,6,7,8-HpCDD	3.8 J	100	2.4	pg
Total HpCDD	6.4 J	100	2.4	pg
OCDD	16 J	200	2.4	pg
2,3,7,8-TCDF	ND	20	2.1	pg
Total TCDF	ND	20	2.1	pg
1,2,3,7,8-PeCDF	ND	100	2.1	pg
2,3,4,7,8-PeCDF	ND	100	2.2	pg
Total PeCDF	ND	100	2.2	pg
1,2,3,4,7,8-HxCDF	2.5 J Q	100	0.63	pg
1,2,3,6,7,8-HxCDF	ND	100	0.60	pg
2,3,4,6,7,8-HxCDF	ND	100	1.4	pg
1,2,3,7,8,9-HxCDF	2.0 J Q	100	0.70	pg
Total HxCDF	4.5 J Q	100	0.63	pg
1,2,3,4,6,7,8-HpCDF	3.7 J Q	100	1.2	pg
1,2,3,4,7,8,9-HpCDF	ND	100	1.5	pg
Total HpCDF	3.7	100	1.3	pg
OCDF	ND	200	3.0	pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	93	50 - 120
13C-1,2,3,7,8-PeCDD	90	50 - 120
13C-1,2,3,6,7,8-HxCDD	94	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 120
13C-OCDD	81	40 - 120
13C-2,3,7,8-TCDF	88	50 - 120
13C-1,2,3,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	82	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	107	50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0J210000 - 289B	Work Order #....:	L8V091AA	Matrix....:	AIR
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	2
Prep Date....:	10/21/10	Analysis Date....:	10/28/10	Volume....:	0
Prep Batch #:	0294289	Instrument ID....:	4D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Grandfield S. Virginia		

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J210484	Work Order # ...: L8V091AC-LCS	Matrix : AIR
LCS Lot-Sample# : G0J210000 - 289	L8V091AD-LCSD	
Prep Date : 10/21/10	Analysis Date ..: 10/28/10	
Prep Batch # ...: 0294289		
Dilution Factor : 2		
Analyst ID.....: Grandfield S. Virginia	Instrument ID...: 4D5	Method.....: EPA-2 TO-9
Initial Wgt/Vol: 1 Sample		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
2,3,7,8-TCDD	400	421	pg	105	(70 - 130)		
	400	415	pg	104	(70 - 130)	1.4	(0 - 30)
1,2,3,7,8-PeCDD	2000	2350	pg	117	(70 - 130)		
	2000	2330	pg	117	(70 - 130)	0.54	(0 - 30)
1,2,3,4,7,8-HxCDD	2000	2150	pg	107	(70 - 130)		
	2000	2230	pg	112	(70 - 130)	3.7	(0 - 30)
1,2,3,6,7,8-HxCDD	2000	2240	pg	112	(70 - 130)		
	2000	2100	pg	105	(70 - 130)	6.6	(0 - 30)
1,2,3,7,8,9-HxCDD	2000	2280	pg	114	(70 - 130)		
	2000	2100	pg	105	(70 - 130)	8.1	(0 - 30)
1,2,3,4,6,7,8-HpCDD	2000	2100	pg	105	(70 - 130)		
	2000	2170	pg	109	(70 - 130)	3.2	(0 - 30)
OCDD	4000	4300	pg	108	(70 - 130)		
	4000	4310	pg	108	(70 - 130)	0.20	(0 - 30)
2,3,7,8-TCDF	400	453	pg	113	(70 - 130)		
	400	454	pg	114	(70 - 130)	0.20	(0 - 30)
1,2,3,7,8-PeCDF	2000	2250	pg	112	(70 - 130)		
	2000	2290	pg	115	(70 - 130)	1.9	(0 - 30)
2,3,4,7,8-PeCDF	2000	2240	pg	112	(70 - 130)		
	2000	2350	pg	117	(70 - 130)	4.9	(0 - 30)
1,2,3,4,7,8-HxCDF	2000	2310	pg	115	(70 - 130)		
	2000	2300	pg	115	(70 - 130)	0.41	(0 - 30)
1,2,3,6,7,8-HxCDF	2000	2560	pg	128	(70 - 130)		
	2000	2430	pg	121	(70 - 130)	5.3	(0 - 30)
2,3,4,6,7,8-HxCDF	2000	2390	pg	119	(70 - 130)		
	2000	2410	pg	121	(70 - 130)	1.1	(0 - 30)
1,2,3,7,8,9-HxCDF	2000	2300	pg	115	(70 - 130)		
	2000	2300	pg	115	(70 - 130)	0.040	(0 - 30)
1,2,3,4,6,7,8-HpCDF	2000	2320	pg	116	(70 - 130)		
	2000	2330	pg	116	(70 - 130)	0.57	(0 - 30)
1,2,3,4,7,8,9-HpCDF	2000	2380	pg	119	(70 - 130)		
	2000	2350	pg	117	(70 - 130)	1.4	(0 - 30)
OCDF	4000	4470	pg	112	(70 - 130)		
	4000	4450	pg	111	(70 - 130)	0.60	(0 - 30)
<u>INTERNAL STANDARD</u>				<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
13C-2,3,7,8-TCDD				92	(50 - 120)		
				96	(50 - 120)		
13C-1,2,3,7,8-PeCDD				93	(50 - 120)		
				100	(50 - 120)		
13C-1,2,3,6,7,8-HxCDD				93	(50 - 120)		

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J210484
LCS Lot-Sample# : G0J210000 - 289

Work Order # ...: L8V091AC-LCS
 L8V091AD-LCSD

Matrix: AIR

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	101	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	92	(40 - 120)
	95	(40 - 120)
13C-OCDD	84	(40 - 120)
	88	(40 - 120)
13C-2,3,7,8-TCDF	88	(50 - 120)
	92	(50 - 120)
13C-1,2,3,7,8-PeCDF	96	(50 - 120)
	100	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	84	(50 - 120)
	87	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	82	(40 - 120)
	88	(40 - 120)

Notes:

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

Bold print denotes control parameters

AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: DW-10112010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 001 Work Order #....: L8VHK1AC Matrix....: AA
Date Sampled....: 10/11/10 Date Received....: 10/21/10 Dilution Factor....: 1
Prep Date....: 10/26/10 Analysis Date....: 10/26/10 Volume....: 1020.32
Prep Batch #: 0299248 Instrument ID....: M01 Method....: SW846 6020
Initial Wgt/Vol....: 0.08333 L Analyst ID....: Brian Jones

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00053 B	0.0024	0.00048	ug/m3
Manganese	0.461	0.00118	0.000167	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10122010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 002	Work Order #....:	L8VHM1AC	Matrix....:	AA
Date Sampled....:	10/12/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/26/10	Volume....:	996.2
Prep Batch #:	0299248	Instrument ID....:	M01	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00049 B	0.0024	0.00049	ug/m3
Manganese	0.124	0.00120	0.000171	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10122010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 003	Work Order #....:	L8VHN1AC	Matrix....:	AA
Date Sampled....:	10/12/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/26/10	Volume....:	1011.37
Prep Batch #:	0299248	Instrument ID....:	M01	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0015 B	0.0024	0.00048	ug/m3
Manganese	5.30	0.00119	0.000168	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10132010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 004	Work Order #....:	L8VHQ1AC	Matrix....:	AA
Date Sampled....:	10/13/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/26/10	Volume....:	1032.52
Prep Batch #:	0299248	Instrument ID....:	M01	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00056 B	0.0023	0.00047	ug/m3
Manganese	0.0539	0.00116	0.000165	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10132010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 005	Work Order #....:	L8VHT1AC	Matrix....:	AA
Date Sampled....:	10/13/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/26/10	Volume....:	1046.67
Prep Batch #:	0299248	Instrument ID....:	M01	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0012 B	0.0023	0.00047	ug/m3
Manganese	2.46	0.00115	0.000162	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10142010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 006
Date Sampled....: 10/14/10
Prep Date....: 10/26/10
Prep Batch #: 0299248
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L8VHW1AC
Date Received....: 10/21/10
Analysis Date....: 10/26/10
Instrument ID....: M01
Analyst ID....: Brian Jones

Matrix....: AA
Dilution Factor....: 1
Volume....: 1009.75
Method....: SW846 6020

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00057 B	0.0024	0.00049	ug/m3
Manganese	0.636	0.00119	0.000168	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10142010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 007
Date Sampled....: 10/14/10
Prep Date....: 10/26/10
Prep Batch #: 0299248
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L8VHX1AC
Date Received....: 10/21/10
Analysis Date....: 10/26/10
Instrument ID....: M01
Analyst ID....: Brian Jones

Matrix....: AA
Dilution Factor....: 1
Volume....: 1013.52
Method....: SW846 6020

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00089 B	0.0024	0.00048	ug/m3
Manganese	2.02	0.00118	0.000168	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10152010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 008	Work Order #....:	L8VH01AC	Matrix....:	AA
Date Sampled....:	10/15/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/26/10	Volume....:	968.76
Prep Batch #:	0299248	Instrument ID....:	M01	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0011 B	0.0025	0.00051	ug/m3
Manganese	2.60	0.00124	0.000175	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 009
Date Sampled....: 10/18/10
Prep Date....: 10/26/10
Prep Batch #: 0299248
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L8VH21AC
Date Received....: 10/21/10
Analysis Date....: 10/26/10
Instrument ID....: M01
Analyst ID....: Brian Jones

Matrix....: AA
Dilution Factor....: 1
Volume....: 1006.77
Method....: SW846 6020

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	ND	0.0024	0.00049	ug/m3
Manganese	0.0285	0.00119	0.000169	ug/m3

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0J210484

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
002	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
003	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
004	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
005	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
006	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
007	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
008	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
009	AA	CFR50B APDX B		0298238	
	AA	SW846 6020		0299248	
010	AA	EPA-2 TO-13		0294378	
011	AA	EPA-2 TO-9		0294289	
012	AA	EPA-2 TO-13		0294378	
013	AA	EPA-2 TO-9		0294289	
014	AA	EPA-2 TO-9		0294289	
015	AA	EPA-2 TO-13		0294378	
016	AA	EPA-2 TO-13		0294378	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0J210484

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>
017	AA	EPA-2 TO-9		0294289	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J260000 - 248B
Date Sampled....: 10/11/10
Prep Date....: 10/26/10
Prep Batch #: 0299248
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L84F11AA
Date Received....: 10/21/10
Analysis Date....: 10/26/10
Instrument ID....: M01
Analyst ID....: Brian Jones

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

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

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J210484	Work Order # ...: L84F11AD-LCS	Matrix : AIR
LCS Lot-Sample# : G0J260000 - 248	L84F11AE-LCSD	
Prep Date : 10/26/10	Analysis Date ..: 10/26/10	
Prep Batch # ...: 0299248		
Dilution Factor : 1		
Analyst ID.....: Brian Jones	Instrument ID..: M01	Method.....: SW846 6020
Initial Wgt/Vol: 0.08333 L		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
Arsenic	240	220	ug	92	(86 - 110)		
	240	220	ug	92	(86 - 110)	0.0	(0 - 15)
Manganese	240	243	ug	101	(88 - 110)		
	240	246	ug	103	(88 - 110)	1.2	(0 - 15)

Notes:

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

Bold print denotes control parameters

AIR, TSP- Total Suspended Particulates

Northgate Environmental Management, Inc.

Sample ID: DW-10112010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 001	Work Order #....:	L8VHK1AA	Matrix....:	AA
Date Sampled....:	10/11/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1020.32
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:	0	Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000461	0.000000490	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10122010B

Trace Level Compounds

Lot - Sample #....: G0J210484 - 002 Work Order #....: L8VHM1AA Matrix....: AA
Date Sampled....: 10/12/10 Date Received....: 10/21/10 Dilution Factor....: 1
Prep Date....: 10/24/10 Analysis Date....: 10/25/10 Volume....: 996.2
Prep Batch #: 0298238 Instrument ID....: QA-45 Method....: CFR50B APDX B
Initial Wgt/Vol....: Analyst ID....: Steve Valmores

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000188	0.000000502	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10122010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 003	Work Order #....:	L8VHN1AA	Matrix....:	AA
Date Sampled....:	10/12/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1011.37
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000564	0.000000494	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10132010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 004	Work Order #....:	L8VHQ1AA	Matrix....:	AA
Date Sampled....:	10/13/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1032.52
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000295	0.000000484	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10132010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 005	Work Order #....:	L8VHT1AA	Matrix....:	AA
Date Sampled....:	10/13/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1046.67
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000534	0.000000478	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10142010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 006	Work Order #....:	L8VHW1AA	Matrix....:	AA
Date Sampled....:	10/14/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1009.75
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000402	0.000000495	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10142010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 007	Work Order #....:	L8VHX1AA	Matrix....:	AA
Date Sampled....:	10/14/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1013.52
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000440	0.000000493	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10152010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 008	Work Order #....:	L8VH01AA	Matrix....:	AA
Date Sampled....:	10/15/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	968.76
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000460	0.00000516	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10182010B

Trace Level Compounds

Lot - Sample #....:	G0J210484 - 009	Work Order #....:	L8VH21AA	Matrix....:	AA
Date Sampled....:	10/18/10	Date Received....:	10/21/10	Dilution Factor....:	1
Prep Date....:	10/24/10	Analysis Date....:	10/25/10	Volume....:	1006.77
Prep Batch #:	0298238	Instrument ID....:	QA-45	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	Steve Valmores		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000123	0.000000497	--	g/m3

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0J210484

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
002	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
003	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
004	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
005	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
006	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
007	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
008	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
009	AA AA	CFR50B APDX B SW846 6020		0298238 0299248	
010	AA	EPA-2 TO-13		0294378	
011	AA	EPA-2 TO-9		0294289	
012	AA	EPA-2 TO-13		0294378	
013	AA	EPA-2 TO-9		0294289	
014	AA	EPA-2 TO-9		0294289	
015	AA	EPA-2 TO-13		0294378	
016	AA	EPA-2 TO-13		0294378	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G0J210484

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>
017	AA	EPA-2 TO-9		0294289	

AIR, TO-13, Semivolatile Organics

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Instrument: SV5 _____

ICAL Date: 10/02/10 _____

DFTPP ID: DFT1027

Initiator/Date: SRS-10/27/10 _____

Standard ID: HSL1027

Reviewer/Date: *Dave Jorg 10/28/10*

NCM #: _____

I: 8270C Criteria

	Initiated	Reviewed
Log Book page included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV compared to correct ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tune documentation is present and meets criteria.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual re-integrations are checked, initialed and hardcopies included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention time correct for Isomers and all other analytes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Samples analyzed within 12 hours of Tune time.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tailing and degradation criteria are met.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spot check manual integrations in Target. Analyte checked: _____	NA	<input type="checkbox"/>
Non-CCC \leq 50% D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

II: 8270C SPCC Check SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

III: 8270C CCC Check CCC must be \leq 20%D (If CCC are not targets, all analytes must be $<$ 20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Flouranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-Chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	NA	<input type="checkbox"/>
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	NA	<input type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	NA	<input type="checkbox"/>

V: DOD OSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be $\leq 20\%$ D.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RRFs for SPCCs must meet minimum response factor criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIM: All analytes must be $\leq 20\%$	<input type="checkbox"/> NA	<input checked="" type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)
 JZ = EPA TO-13A (WS-MS-0005)
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)
 QI = EPA 8270C-SIM (WS-MS-0008)
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i
 Batch ID : 102710.B
 ICAL Date: See Calib Report
 See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
27-OCT-2010	12:06	srs	HSL_050 ug/ml CS-4	QC001.D	NA	NA	NA		
27-OCT-2010	12:28	srs	DFTPP 50ug/ml	DFT1027.D	NA	NA	NA		
27-OCT-2010	12:49	srs	HSL_050 ug/ml CS-4	HSL1027.D	NA	NA	NA		
27-OCT-2010	13:42	srs	L8WGC1AA G0J210000-378B	S102701.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	14:07	srs	L8WGC1AC G0J210000-378C	S102702.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	14:32	srs	L8WGC1AD G0J210000-378L	S102703.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	14:57	srs	L8VH41AA G0J210484-10	S102704.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	15:22	srs	L8VH71AA G0J210484-12	S102705.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	15:47	srs	L8VJA1AA G0J210484-15	S102706.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	16:12	srs	L8VJD1AA G0J210484-16	S102707.D	1000 Sa	1 mL	1	JZ	
27-OCT-2010	16:37	srs	L80CV1AA G0J220000-297B	S102708.D	30 g	1 mL	1	QL	
27-OCT-2010	17:02	srs	L80CV1AC G0J220000-297C	S102709.D	30 g	1 mL	1	QL	RT: 3.166
27-OCT-2010	17:27	srs	L8E9D1CG G0J130452-11S	S102710.D	30.04 g	1 mL	1	QL	
27-OCT-2010	17:52	srs	L8E9D1CH G0J130452-11D	S102711.D	30.08 g	1 mL	1	QL	
27-OCT-2010	18:17	srs	L8E9D1AE G0J130452-11	S102712.D	29.65 g	1 mL	1	QL	
27-OCT-2010	18:42	srs	L8E8R1AA G0J130452-1	S102713.D	30 g	1 mL	1	QL	
27-OCT-2010	19:07	srs	L8E841AE G0J130452-3	S102714.D	30.04 g	1 mL	1	QL	
27-OCT-2010	19:32	srs	L8E871AE G0J130452-6	S102715.D	30.12 g	1 mL	1	QL	
27-OCT-2010	19:56	srs	L8E891AE G0J130452-8	S102716.D	30.04 g	1 mL	1	QL	
27-OCT-2010	20:21	srs	L8HPD1AA G0J140641-2	S102717.D	29.98 g	1 mL	1	QL	
27-OCT-2010	20:46	srs	L8L4N1AE G0J140641-5	S102718.D	30.04 g	1 mL	1	QL	

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 27-OCT-2010 12:49
 Lab File ID: HSL1027.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
 Method: \\SV5\C\chem\sv5.i\102710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.43486	1.43486	0.010	1.76858	50.00000	Averaged
8 Phenol-d5	1.77296	1.82081	1.82081	0.010	2.69891	50.00000	Averaged
9 2-Chlorophenol-d4	1.55698	1.54711	1.54711	0.010	-0.63435	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.98513	1.02922	1.02922	0.010	4.47638	50.00000	Averaged
11 Nitrobenzene-d5	0.33879	0.34166	0.34166	0.010	0.84430	50.00000	Averaged
12 2-Fluorobiphenyl	1.28852	1.30595	1.30595	0.010	1.35266	50.00000	Averaged
13 2,4,6-Tribromophenol	0.17381	0.19558	0.19558	0.010	12.52359	50.00000	Averaged
14 Terphenyl-d14	0.78789	0.78716	0.78716	0.010	-0.09328	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.92306	0.92306	0.010	0.16434	50.00000	Averaged
16 Pyridine	1.54111	1.47932	1.47932	0.010	-4.00934	50.00000	Averaged
23 Aniline	2.25673	2.28838	2.28838	0.010	1.40282	50.00000	Averaged
24 Phenol	2.03729	2.02367	2.02367	0.010	-0.66840	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.42859	1.41637	1.41637	0.010	-0.85565	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.55869	1.55869	0.010	-0.32728	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.72514	1.72514	0.010	1.27783	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.77781	1.77781	0.010	-0.18885	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.10822	1.10822	0.010	5.44304	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.64879	1.64879	0.010	0.69179	50.00000	Averaged
32 2-Methylphenol	1.43012	1.42089	1.42089	0.010	-0.64592	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane)	2.27365	2.16471	2.16471	0.010	-4.79168	50.00000	Averaged
34 4-Methylphenol	1.51904	1.54482	1.54482	0.010	1.69729	50.00000	Averaged
36 Hexachloroethane	0.60636	0.59764	0.59764	0.010	-1.43850	50.00000	Averaged
37 N-Nitrosodipropylamine	1.01180	1.02192	1.02192	0.050	0.99996	50.00000	Averaged
42 Nitrobenzene	0.33116	0.33391	0.33391	0.010	0.82792	50.00000	Averaged
44 Isophorone	0.63679	0.64311	0.64311	0.010	0.99261	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20318	0.20318	0.010	3.40969	20.00000	Averaged
46 2,4-Dimethylphenol	0.34911	0.34653	0.34653	0.010	-0.73983	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.39051	0.39051	0.010	0.36735	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.28261	0.28261	0.010	4.63112	20.00000	Averaged
50 Benzoic Acid	0.19324	0.22572	0.22572	0.010	16.80752	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.30608	0.30608	0.010	4.65727	50.00000	Averaged
52 Naphthalene	1.10443	1.08359	1.08359	0.010	-1.88653	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.43998	0.43998	0.010	1.64211	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.14919	0.14919	0.010	4.23999	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.30856	0.30856	0.010	2.29682	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.69191	0.69191	0.010	-0.26879	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.30867	0.30867	0.050	3.42145	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.33475	0.33475	0.010	4.89443	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.34380	0.37392	0.37392	0.010	8.76128	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.15149	1.15149	0.010	2.29039	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.35595	0.35595	0.010	4.32695	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.32962	1.32962	0.010	2.58889	50.00000	Averaged

Manual calculation for Benzochloroanthene:

$$\frac{609327}{246846} \times \frac{40}{50} = 1.09089 \quad 17/10/2010$$

5/10/2010

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 27-OCT-2010 12:49
 Lab File ID: HSL1027.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
 Method: \\SV5\C\chem\sv5.i\102710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.97362	1.97362	0.010	0.67591	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.30564	0.30564	0.010	1.21644	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.39196	0.39196	0.010	3.99465	50.00000	Averaged
81 Acenaphthene	1.24787	1.23109	1.23109	0.010	-1.34454	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	57.83455	0.20865	0.050	15.66910	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.69494	1.69494	0.010	2.34380	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.17481	0.17481	0.050	11.81426	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.42972	0.42972	0.010	8.42401	50.00000	Averaged
91 Fluorene	1.37139	1.44120	1.44120	0.010	5.09049	50.00000	Averaged
92 Diethylphthalate	1.32699	1.39926	1.39926	0.010	5.44605	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.60408	0.60408	0.010	5.94361	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.41132	0.41132	0.010	10.09298	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	53.18178	0.15221	0.010	6.36355	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.61920	0.61920	0.010	2.13042	20.00000	Averaged
100 Azobenzene	0.78660	0.83806	0.83806	0.010	6.54161	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.21137	0.21137	0.010	8.24802	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22113	0.22113	0.010	1.40353	50.00000	Averaged
110 Pentachlorophenol	50.00000	55.96501	0.14698	0.010	11.93002	0.000e+000	Linear
114 Phenanthrene	1.26074	1.20153	1.20153	0.010	-4.69661	50.00000	Averaged
115 Anthracene	1.25955	1.25829	1.25829	0.010	-0.09948	50.00000	Averaged
118 Carbazole	1.15061	1.14250	1.14250	0.010	-0.70435	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.42426	1.42426	0.010	2.87764	50.00000	Averaged
126 Fluoranthene	1.12969	1.14249	1.14249	0.010	1.13295	20.00000	Averaged
127 Benzidine	0.81067	0.87904	0.87904	0.010	8.43289	50.00000	Averaged
128 Pyrene	1.25025	1.23433	1.23433	0.010	-1.27341	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.73902	0.73902	0.010	3.26740	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.63826	0.63826	0.010	1.85628	50.00000	Averaged
138 Benzo (a) Anthracene	1.06548	1.06454	1.06454	0.010	-0.08747	50.00000	Averaged
139 Chrysene	1.08994	1.07309	1.07309	0.010	-1.54573	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.41615	0.41615	0.010	3.54787	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316	0.89705	0.89705	0.010	3.92585	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.52626	1.52626	0.010	10.61889	20.00000	Averaged
144 Benzo (b) fluoranthene	0.90549	1.11539	1.11539	0.010	23.18068	50.00000	Averaged
145 Benzo (k) fluoranthene	1.16236	1.09089	1.09089	0.010	-6.14824	50.00000	Averaged
147 Benzo (e) pyrene	0.94425	0.97107	0.97107	0.010	2.84022	50.00000	Averaged
148 Benzo (a) pyrene	1.02655	1.02873	1.02873	0.010	0.21227	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.83029	0.90142	0.90142	0.010	8.56666	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.92758	1.00559	1.00559	0.010	8.41020	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00427	1.03678	1.03678	0.010	3.23756	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.20628	2.20628	0.010	6.69460	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\HSL1027.D
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 27-OCT-2010 12:49
 Operator : srs Inst ID: sv5.i
 Smp Info : HSL 050 ug/ml CS-4;2;;4;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270f.m
 Meth Date : 27-Oct-2010 13:27 sv5.i Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 97 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.820	3.820	(1.000)	117052	40.0000	
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	504270	40.0000	
* 3 Acenaphthene-d10	164	7.322	7.322	(1.000)	270253	40.0000	
* 4 Phenanthrene-d10	188	9.229	9.229	(1.000)	438862	40.0000	
* 5 Chrysene-d12	240	13.582	13.582	(1.000)	440518	40.0000	
* 6 Perylene-d12	264	15.955	15.955	(1.000)	446846	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.680)	209941	50.0000	50.88
\$ 8 Phenol-d5	99	3.488	3.488	(0.913)	266412	50.0000	51.35
\$ 9 2-Chlorophenol-d4	132	3.612	3.612	(0.946)	226365	50.0000	49.68
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.017	(1.052)	150591	50.0000	52.24
\$ 11 Nitrobenzene-d5	82	4.442	4.442	(0.849)	215358	50.0000	50.42
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	441172	50.0000	50.68
\$ 13 2,4,6-Tribromophenol	330	8.317	8.317	(1.136)	66071	50.0000	56.26
\$ 14 Terphenyl-d14	244	11.830	11.830	(0.871)	433447	50.0000	49.95
15 N-Nitrosodimethylamine	74	1.571	1.571	(0.411)	135057	50.0000	50.08
16 Pyridine	79	1.592	1.592	(0.417)	216447	50.0000	48.00
23 Aniline	93	3.519	3.519	(0.921)	334825	50.0000	50.70
24 Phenol	94	3.498	3.498	(0.916)	296093	50.0000	49.66
26 Bis(2-chloroethyl) ether	93	3.581	3.581	(0.938)	207236	50.0000	49.57
27 2-Chlorophenol	128	3.633	3.633	(0.951)	228060	50.0000	49.84
28 1,3-Dichlorobenzene	146	3.778	3.778	(0.989)	252414	50.0000	50.64
29 1,4-Dichlorobenzene	146	3.830	3.830	(1.003)	260121	50.0000	49.90
30 Benzyl Alcohol	108	3.986	3.986	(1.043)	162149	50.0000	52.72
31 1,2-Dichlorobenzene	146	4.037	4.037	(1.057)	241243	50.0000	50.34
32 2-Methylphenol	108	4.131	4.131	(1.081)	207897	50.0000	49.68
33 2,2'-oxybis(1-Chloropropane)	45	4.162	4.162	(1.090)	316729	50.0000	47.60
34 4-Methylphenol	108	4.286	4.286	(1.122)	226031	50.0000	50.85
36 Hexachloroethane	117	4.359	4.359	(1.141)	87444	50.0000	49.28
37 N-Nitrosodinpropylamine	70	4.307	4.307	(1.127)	149522	50.0000	50.50
42 Nitrobenzene	77	4.462	4.462	(0.853)	210473	50.0000	50.41
44 Isophorone	82	4.721	4.721	(0.903)	405376	50.0000	50.50
45 2-Nitrophenol	139	4.825	4.825	(0.923)	128070	50.0000	51.70
46 2,4-Dimethylphenol	107	4.887	4.887	(0.935)	218432	50.0000	49.63

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.001	5.001	(0.956)	246155	50.0000	50.18
49 2,4-Dichlorophenol	162	5.094	5.094	(0.974)	178139	50.0000	52.32
50 Benzoic Acid	122	4.991	4.991	(0.954)	142280	50.0000	58.40
51 1,2,4-Trichlorobenzene	180	5.188	5.188	(0.992)	192931	50.0000	52.33
52 Naphthalene	128	5.250	5.250	(1.004)	683028	50.0000	49.06
54 4-Chloroaniline	127	5.353	5.353	(1.024)	277338	50.0000	50.82
57 Hexachlorobutadiene	225	5.478	5.478	(1.048)	94043	50.0000	52.12
60 4-Chloro-3-Methylphenol	107	5.944	5.944	(1.137)	194499	50.0000	51.15
63 2-Methylnaphthalene	142	6.069	6.069	(1.161)	436137	50.0000	49.86
66 Hexachlorocyclopentadiene	237	6.348	6.348	(0.867)	104273	50.0000	51.71
69 2,4,6-Trichlorophenol	196	6.442	6.442	(0.880)	113085	50.0000	52.45
70 2,4,5-Trichlorophenol	196	6.483	6.483	(0.885)	126317	50.0000	54.38
71 2-Chloronaphthalene	162	6.638	6.638	(0.907)	388993	50.0000	51.14
73 2-Nitroaniline	65	6.815	6.815	(0.931)	120245	50.0000	52.16
76 Dimethylphthalate	163	7.084	7.084	(0.967)	449166	50.0000	51.29
77 Acenaphthylene	152	7.136	7.136	(0.975)	666720	50.0000	50.34
79 2,6-Dinitrotoluene	165	7.157	7.157	(0.977)	103250	50.0000	50.61
80 3-Nitroaniline	138	7.312	7.312	(0.999)	132411	50.0000	52.00
81 Acenaphthene	153	7.364	7.364	(1.006)	415882	50.0000	49.33
82 2,4-Dinitrophenol	184	7.436	7.436	(1.016)	70486	50.0000	57.83
83 Dibenzofuran	168	7.561	7.561	(1.033)	572577	50.0000	51.17
84 4-Nitrophenol	109	7.540	7.540	(1.030)	59054	50.0000	55.91
86 2,4-Dinitrotoluene	165	7.623	7.623	(1.041)	145166	50.0000	54.21
91 Fluorene	166	7.986	7.986	(1.091)	486862	50.0000	52.54
92 Diethylphthalate	149	7.955	7.955	(1.086)	472693	50.0000	52.72
93 4-Chlorophenyl-phenylether	204	8.006	8.006	(1.093)	204068	50.0000	52.97
94 4-Nitroaniline	138	8.069	8.069	(1.102)	138951	50.0000	55.05
97 4,6-Dinitro-2-methylphenol	198	8.120	8.120	(0.880)	83500	50.0000	53.18
98 N-Nitrosodiphenylamine	169	8.162	8.162	(0.884)	398104	58.6000	59.85
100 Azobenzene	77	8.193	8.193	(0.888)	459740	50.0000	53.27
101 4-Bromophenyl-phenylether	248	8.639	8.639	(0.936)	115954	50.0000	54.12
108 Hexachlorobenzene	284	8.815	8.815	(0.955)	121305	50.0000	50.70
110 Pentachlorophenol	266	9.074	9.074	(0.983)	80630	50.0000	55.96
114 Phenanthrene	178	9.271	9.271	(1.004)	659133	50.0000	47.65
115 Anthracene	178	9.333	9.333	(1.011)	690271	50.0000	49.95
118 Carbazole	167	9.592	9.592	(1.039)	626752	50.0000	49.65
120 Di-n-Butylphthalate	149	10.297	10.297	(1.116)	781315	50.0000	51.44
126 Fluoranthene	202	11.105	11.105	(1.203)	626743	50.0000	50.57
127 Benzidine	184	11.385	11.385	(0.838)	484039	50.0000	54.22
128 Pyrene	202	11.468	11.468	(0.844)	679683	50.0000	49.36
134 3,3'-dimethylbenzidine	212	12.680	12.680	(0.934)	406940	50.0000	51.63
136 Butylbenzylphthalate	149	12.794	12.794	(0.942)	351459	50.0000	50.93
138 Benzo(a)Anthracene	228	13.551	13.551	(0.998)	586189	50.0000	49.96
139 Chrysene	228	13.623	13.623	(1.003)	590894	50.0000	49.23
140 3,3'-Dichlorobenzidine	252	13.602	13.602	(1.002)	229152	50.0000	51.77
141 bis(2-ethylhexyl)Phthalate	149	13.924	13.924	(1.025)	493957	50.0000	51.96
142 Di-n-octylphthalate	149	14.970	14.970	(1.102)	840433	50.0000	55.31
144 Benzo(b)fluoranthene	252	15.375	15.375	(0.964)	623009	50.0000	61.59 (M)
145 Benzo(k)fluoranthene	252	15.406	15.406	(0.966)	609327	50.0000	46.92 (M)
147 Benzo(e)pyrene	252	15.789	15.789	(0.990)	542396	50.0000	51.42
148 Benzo(a)pyrene	252	15.862	15.862	(0.994)	574604	50.0000	50.11
151 Indeno(1,2,3-cd)pyrene	276	17.540	17.540	(1.099)	503493	50.0000	54.28
152 Dibenzo(a,h)anthracene	278	17.582	17.582	(1.102)	561678	50.0000	54.20
153 Benzo(g,h,i)perylene	276	17.945	17.945	(1.125)	579104	50.0000	51.62

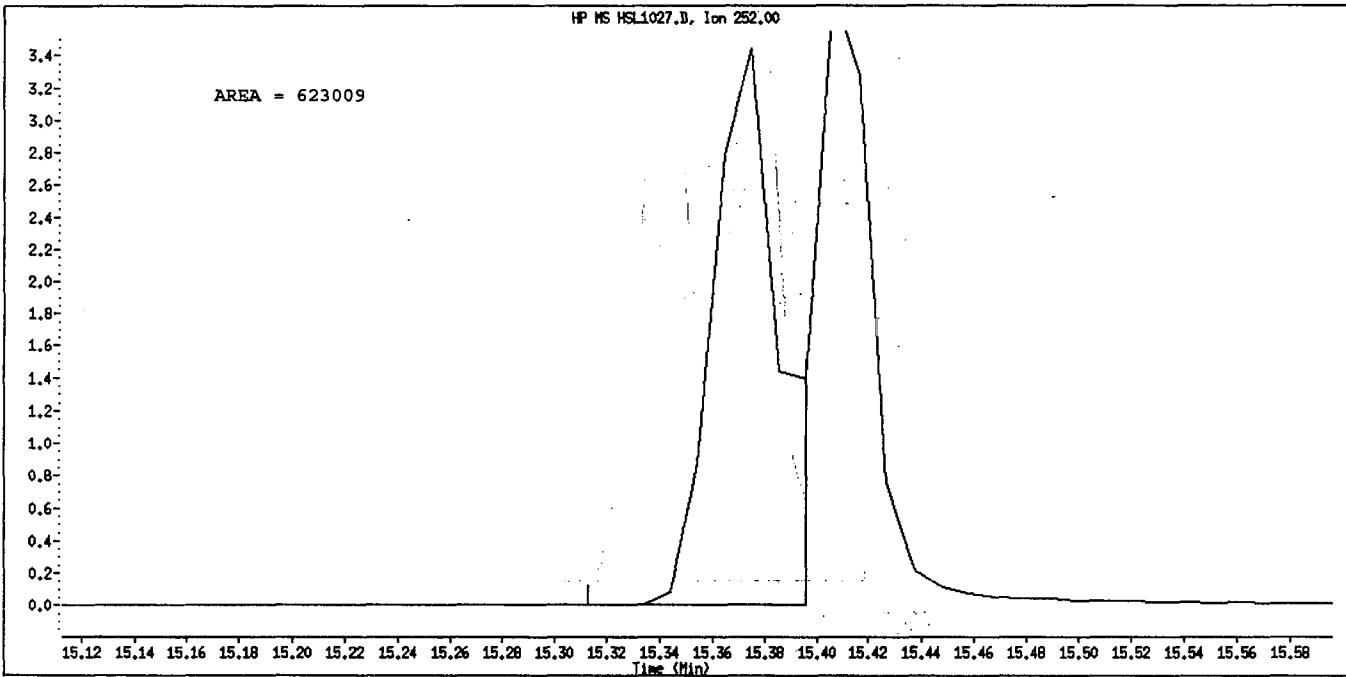
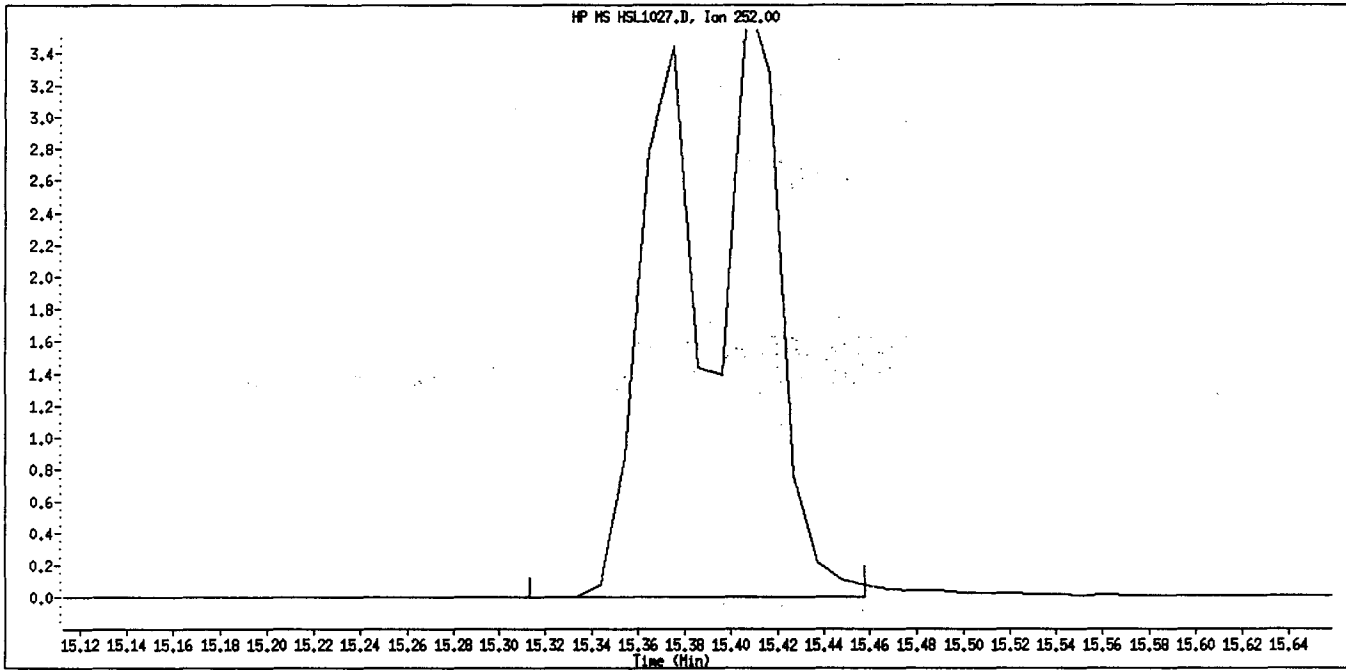
Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					1232336	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Manually integrated.

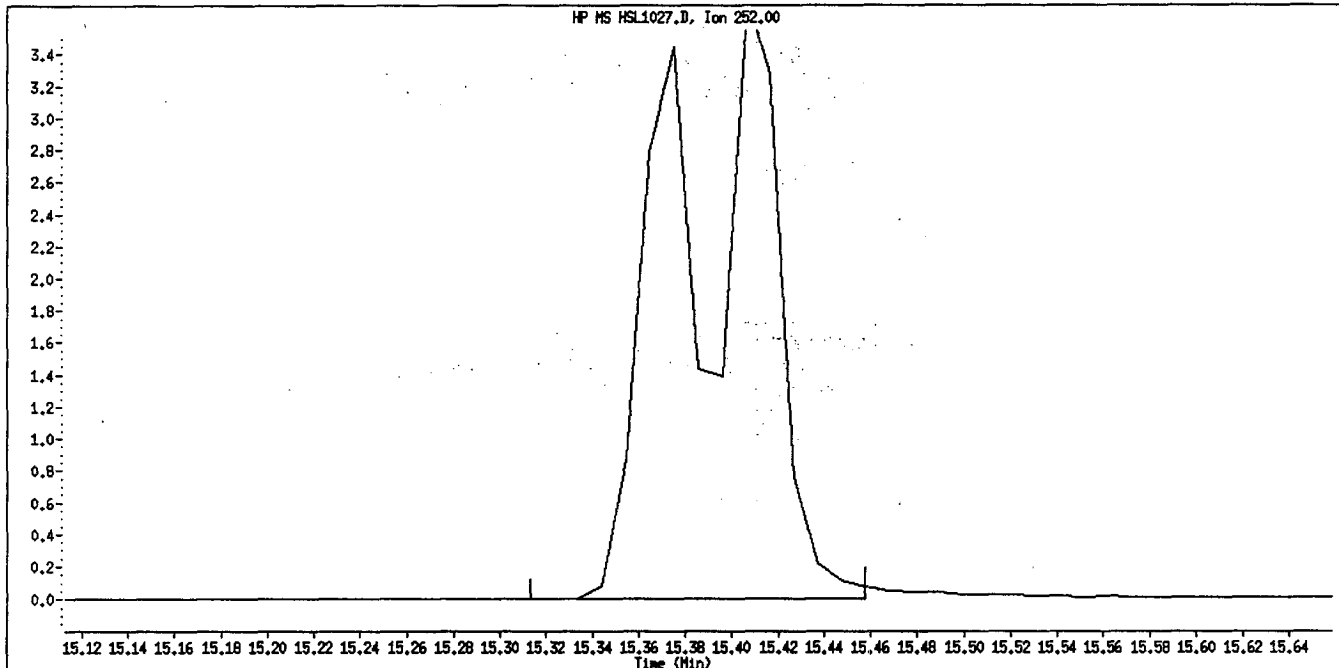
Data File Name: HSL1027.D
Inj. Date and Time: 27-OCT-2010 12:49
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 10/27/2010



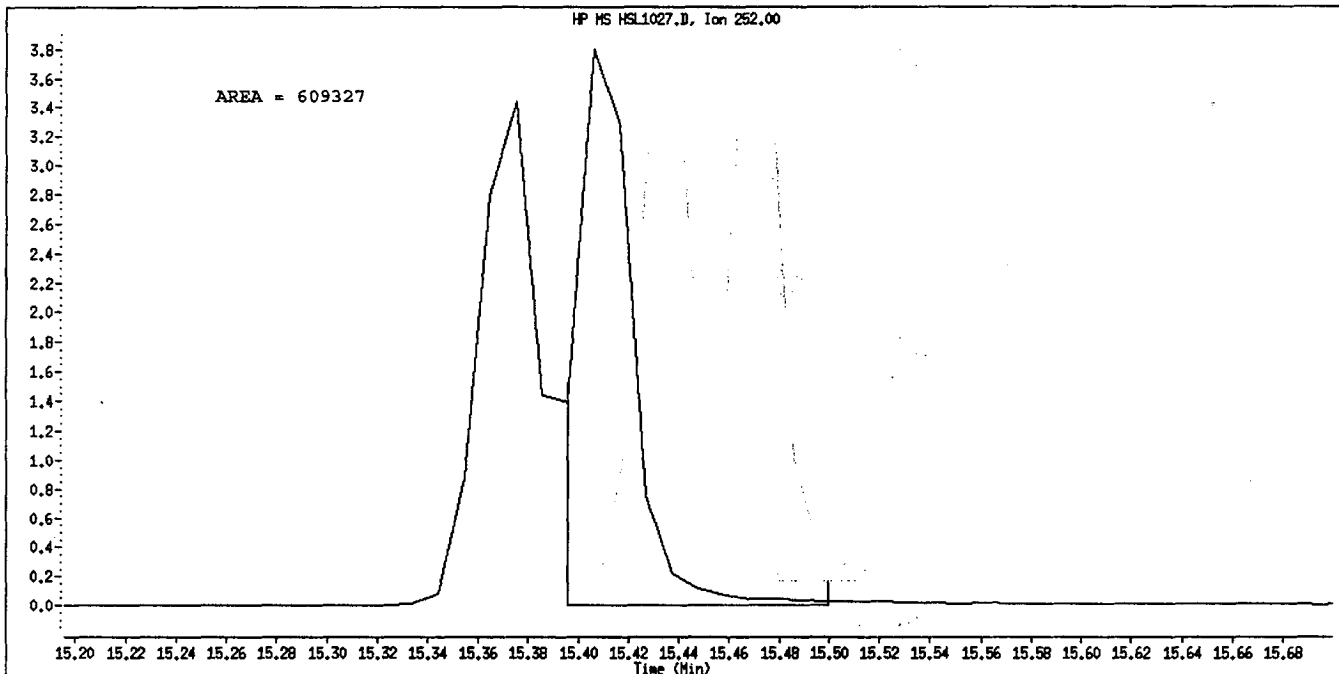
SH 10/27/10

Manually Integrated By: ~~SEMIVOR~~ *SH 10/27/10*
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1027.D
Inj. Date and Time: 27-OCT-2010 12:49
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/27/2010



Original Integration



Manual Integration

gs 10/27/10

Manually Integrated By: *semivca gms 10/27/10*
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\HSL1027.D
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 27-OCT-2010 12:49
 Operator : srs Inst ID: sv5.i
 Smp Info : HSL 050 ug/ml CS-4;2;;4;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270f.m
 Meth Date : 27-Oct-2010 13:11 semivoa Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 97 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.820	3.820	(1.000)	117052	40.0000	
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	504270	40.0000	
* 3 Acenaphthene-d10	164	7.322	7.322	(1.000)	270253	40.0000	
* 4 Phenanthrene-d10	188	9.229	9.229	(1.000)	438862	40.0000	
* 5 Chrysene-d12	240	13.582	13.582	(1.000)	440518	40.0000	
* 6 Perylene-d12	264	15.955	15.955	(1.000)	446846	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.680)	209941	50.0000	50.88
\$ 8 Phenol-d5	99	3.488	3.488	(0.913)	266412	50.0000	51.35
\$ 9 2-Chlorophenol-d4	132	3.612	3.612	(0.946)	226365	50.0000	49.68
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.017	(1.052)	150591	50.0000	52.24
\$ 11 Nitrobenzene-d5	82	4.442	4.442	(0.849)	215358	50.0000	50.42
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	441172	50.0000	50.68
\$ 13 2,4,6-Tribromophenol	330	8.317	8.317	(1.136)	66071	50.0000	56.26
\$ 14 Terphenyl-d14	244	11.830	11.830	(0.871)	433447	50.0000	49.95
15 N-Nitrosodimethylamine	74	1.571	1.571	(0.411)	135057	50.0000	50.08
16 Pyridine	79	1.592	1.592	(0.417)	216447	50.0000	48.00
23 Aniline	93	3.519	3.519	(0.921)	334825	50.0000	50.70
24 Phenol	94	3.498	3.498	(0.916)	296093	50.0000	49.66
26 Bis(2-chloroethyl) ether	93	3.581	3.581	(0.938)	207236	50.0000	49.57
27 2-Chlorophenol	128	3.633	3.633	(0.951)	228060	50.0000	49.84
28 1,3-Dichlorobenzene	146	3.778	3.778	(0.989)	252414	50.0000	50.64
29 1,4-Dichlorobenzene	146	3.830	3.830	(1.003)	260121	50.0000	49.90
30 Benzyl Alcohol	108	3.986	3.986	(1.043)	162149	50.0000	52.72
31 1,2-Dichlorobenzene	146	4.037	4.037	(1.057)	241243	50.0000	50.34
32 2-Methylphenol	108	4.131	4.131	(1.081)	207897	50.0000	49.68
33 2,2'-oxybis(1-Chloropropane)	45	4.162	4.162	(1.090)	316729	50.0000	47.60
34 4-Methylphenol	108	4.286	4.286	(1.122)	226031	50.0000	50.85
36 Hexachloroethane	117	4.359	4.359	(1.141)	87444	50.0000	49.28
37 N-Nitrosodipropylamine	70	4.307	4.307	(1.127)	149522	50.0000	50.50
42 Nitrobenzene	77	4.462	4.462	(0.853)	210473	50.0000	50.41
44 Isophorone	82	4.721	4.721	(0.903)	405376	50.0000	50.50
45 2-Nitrophenol	139	4.825	4.825	(0.923)	128070	50.0000	51.70
46 2,4-Dimethylphenol	107	4.887	4.887	(0.935)	218432	50.0000	49.63

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.001	5.001	(0.956)	246155	50.0000	50.18
49 2,4-Dichlorophenol	162	5.094	5.094	(0.974)	178139	50.0000	52.32
50 Benzoic Acid	122	4.991	4.991	(0.954)	142280	50.0000	58.40
51 1,2,4-Trichlorobenzene	180	5.188	5.188	(0.992)	192931	50.0000	52.33
52 Naphthalene	128	5.250	5.250	(1.004)	683028	50.0000	49.06
54 4-Chloroaniline	127	5.353	5.353	(1.024)	277338	50.0000	50.82
57 Hexachlorobutadiene	225	5.478	5.478	(1.048)	94043	50.0000	52.12
60 4-Chloro-3-Methylphenol	107	5.944	5.944	(1.137)	194499	50.0000	51.15
63 2-Methylnaphthalene	142	6.069	6.069	(1.161)	436137	50.0000	49.86
66 Hexachlorocyclopentadiene	237	6.348	6.348	(0.867)	104273	50.0000	51.71
69 2,4,6-Trichlorophenol	196	6.442	6.442	(0.880)	113085	50.0000	52.45
70 2,4,5-Trichlorophenol	196	6.483	6.483	(0.885)	126317	50.0000	54.38
71 2-Chloronaphthalene	162	6.638	6.638	(0.907)	388993	50.0000	51.14
73 2-Nitroaniline	65	6.815	6.815	(0.931)	120245	50.0000	52.16
76 Dimethylphthalate	163	7.084	7.084	(0.967)	449166	50.0000	51.29
77 Acenaphthylene	152	7.136	7.136	(0.975)	666720	50.0000	50.34
79 2,6-Dinitrotoluene	165	7.157	7.157	(0.977)	103250	50.0000	50.61
80 3-Nitroaniline	138	7.312	7.312	(0.999)	132411	50.0000	52.00
81 Acenaphthene	153	7.364	7.364	(1.006)	415882	50.0000	49.33
82 2,4-Dinitrophenol	184	7.436	7.436	(1.016)	70486	50.0000	57.83
83 Dibenzofuran	168	7.561	7.561	(1.033)	572577	50.0000	51.17
84 4-Nitrophenol	109	7.540	7.540	(1.030)	59054	50.0000	55.91
86 2,4-Dinitrotoluene	165	7.623	7.623	(1.041)	145166	50.0000	54.21
91 Fluorene	166	7.986	7.986	(1.091)	486862	50.0000	52.54
92 Diethylphthalate	149	7.955	7.955	(1.086)	472693	50.0000	52.72
93 4-Chlorophenyl-phenylether	204	8.006	8.006	(1.093)	204068	50.0000	52.97
94 4-Nitroaniline	138	8.069	8.069	(1.102)	138951	50.0000	55.05
97 4,6-Dinitro-2-methylphenol	198	8.120	8.120	(0.880)	83500	50.0000	53.18
98 N-Nitrosodiphenylamine	169	8.162	8.162	(0.884)	398104	58.6000	59.85
100 Azobenzene	77	8.193	8.193	(0.888)	459740	50.0000	53.27
101 4-Bromophenyl-phenylether	248	8.639	8.639	(0.936)	115954	50.0000	54.12
108 Hexachlorobenzene	284	8.815	8.815	(0.955)	121305	50.0000	50.70
110 Pentachlorophenol	266	9.074	9.074	(0.983)	80630	50.0000	55.96
114 Phenanthrene	178	9.271	9.271	(1.004)	659133	50.0000	47.65
115 Anthracene	178	9.333	9.333	(1.011)	690271	50.0000	49.95
118 Carbazole	167	9.592	9.592	(1.039)	626752	50.0000	49.65
120 Di-n-Butylphthalate	149	10.297	10.297	(1.116)	781315	50.0000	51.44
126 Fluoranthene	202	11.105	11.105	(1.203)	626743	50.0000	50.57
127 Benzidine	184	11.385	11.385	(0.838)	484039	50.0000	54.22
128 Pyrene	202	11.468	11.468	(0.844)	679683	50.0000	49.36
134 3,3'-dimethylbenzidine	212	12.680	12.680	(0.934)	406940	50.0000	51.63
136 Butylbenzylphthalate	149	12.794	12.794	(0.942)	351459	50.0000	50.93
138 Benzo(a)Anthracene	228	13.551	13.551	(0.998)	586189	50.0000	49.96
139 Chrysene	228	13.623	13.623	(1.003)	590894	50.0000	49.23
140 3,3'-Dichlorobenzidine	252	13.602	13.602	(1.002)	229152	50.0000	51.77
141 bis(2-ethylhexyl) Phthalate	149	13.924	13.924	(1.025)	493957	50.0000	51.96
142 Di-n-octylphthalate	149	14.970	14.970	(1.102)	840433	50.0000	55.31
144 Benzo(b)fluoranthene	252	15.375	15.375	(0.964)	1132650	50.0000	112.0
145 Benzo(k)fluoranthene	252	15.375	15.375	(0.964)	1132669	50.0000	87.23
147 Benzo(e)pyrene	252	15.789	15.789	(0.990)	542396	50.0000	51.42
148 Benzo(a)pyrene	252	15.862	15.862	(0.994)	574604	50.0000	50.11
151 Indeno(1,2,3-cd)pyrene	276	17.540	17.540	(1.099)	503493	50.0000	54.28
152 Dibenzo(a,h)anthracene	278	17.582	17.582	(1.102)	561678	50.0000	54.20
153 Benzo(g,h,i)perylene	276	17.945	17.945	(1.125)	579104	50.0000	51.62

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					2265319	50.0000	98.06 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1027.D
 Lab Smp Id: HSL 050 ug/ml CS-4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 26-OCT-2010
 Calibration Time: 20:01
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	117052	-4.54
2 Naphthalene-d8	530514	265257	1061028	504270	-4.95
3 Acenaphthene-d10	282538	141269	565076	270253	-4.35
4 Phenanthrene-d10	462722	231361	925444	438862	-5.16
5 Chrysene-d12	435850	217925	871700	440518	1.07
6 Perylene-d12	422284	211142	844568	446846	5.82

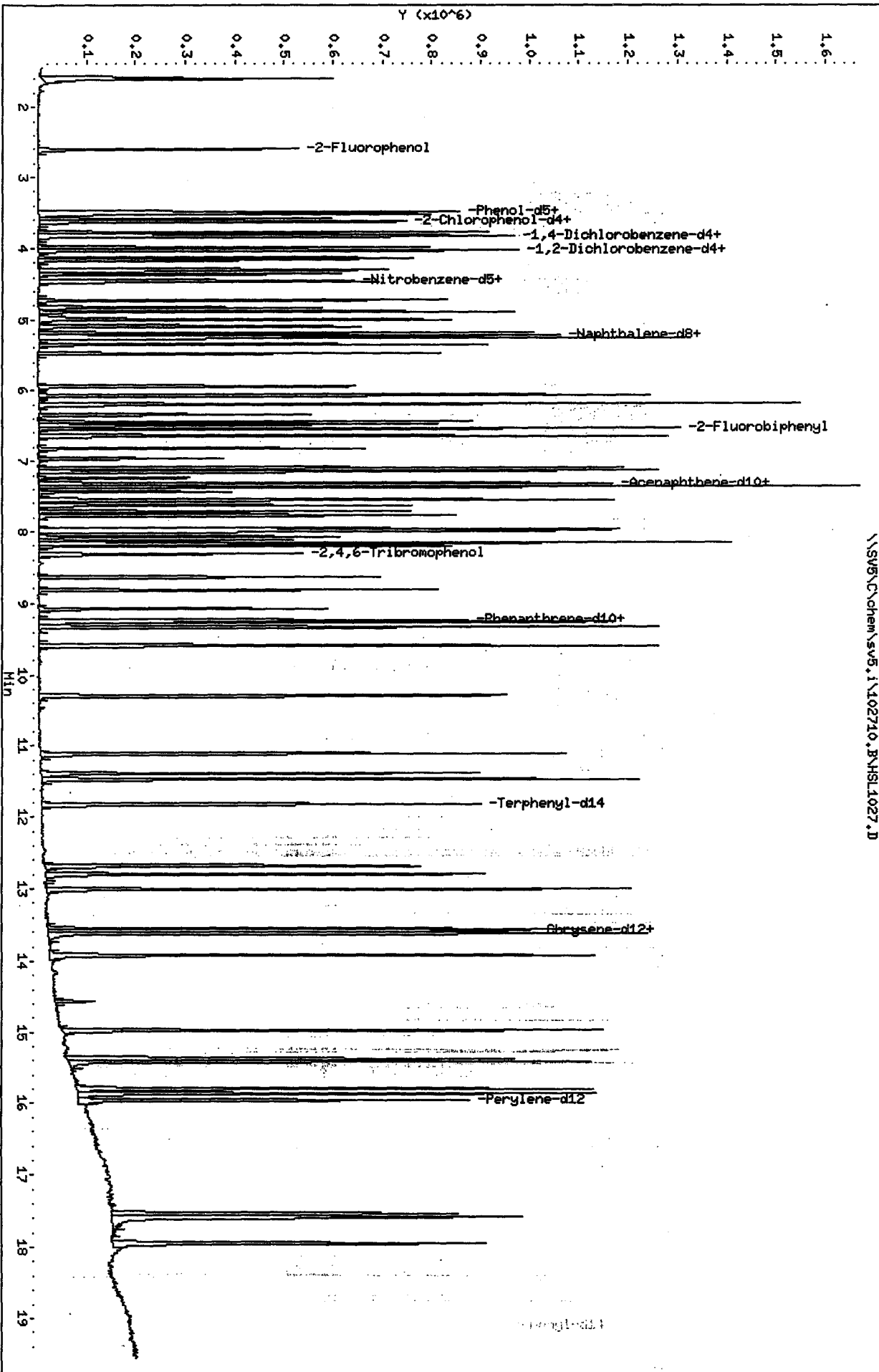
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.32	6.82	7.82	7.32	0.00
4 Phenanthrene-d10	9.23	8.73	9.73	9.23	0.00
5 Chrysene-d12	13.58	13.08	14.08	13.58	0.00
6 Perylene-d12	15.96	15.46	16.46	15.96	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\102710.BVHSL1027.D
 Date : 27-OCT-2010 12:49
 Client ID: 8270F.M
 Sample Info: HSL_050 ug/ml CS-4;2;4;4;4;4;4
 Column phase:

Instrument: sv5.i
 Operator: srs
 Column diameter: 2.00

\\SV5\C\chem\sv5.i\102710.BVHSL1027.D



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.0117289	5.000	PASS
Benzidine	0.5526740	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	232562	14.6	20.5	PASS

Sample //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D

 *** PASSED ***

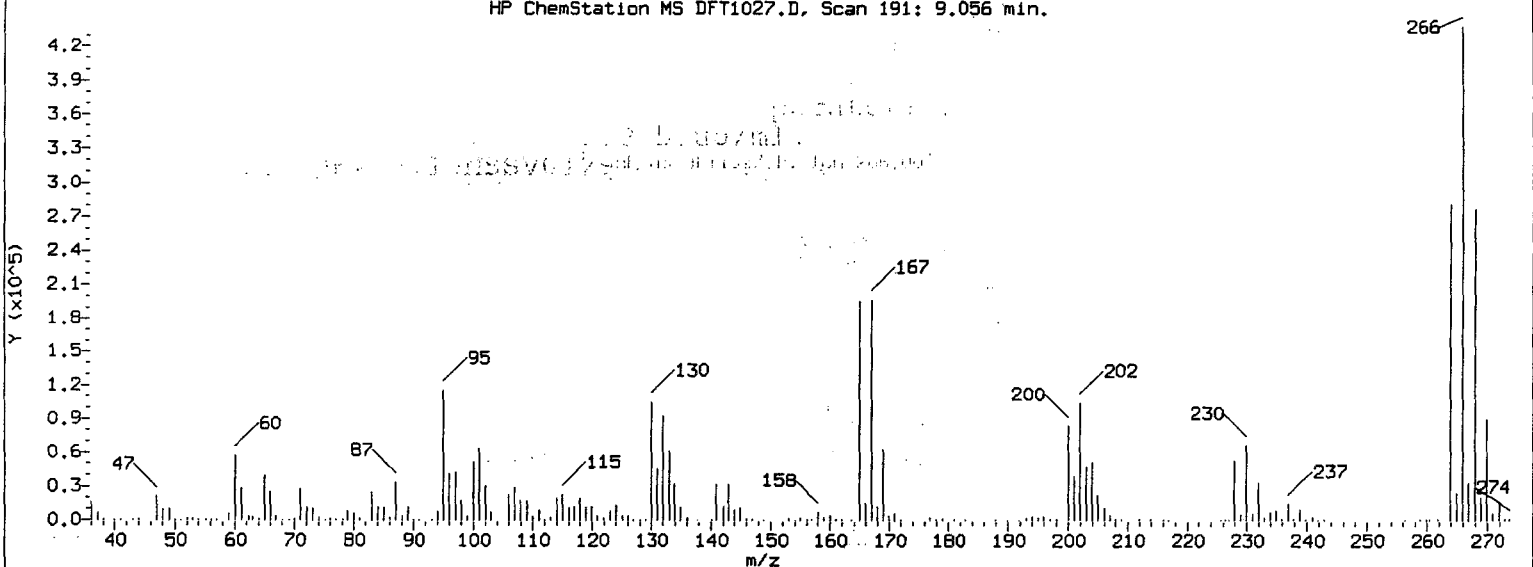
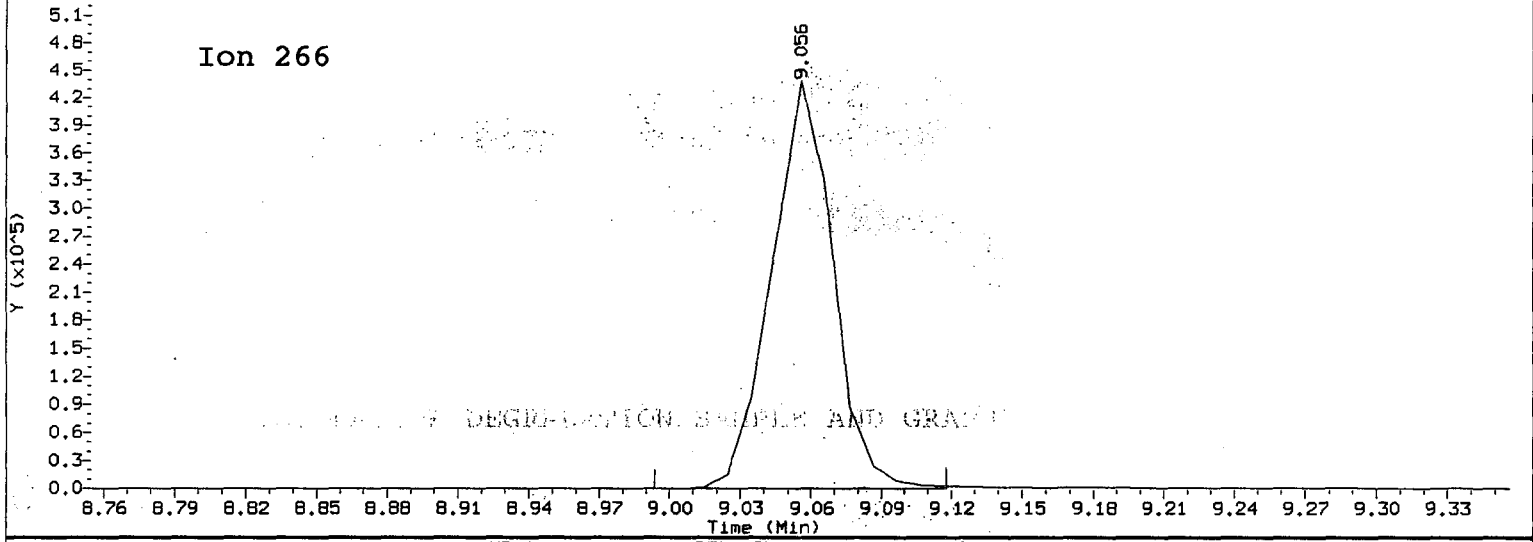
sh/berko

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/27/2010 12:59

Datafile Analyzed: //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D
Method Used: \\SV5\C\chem\sv5.i\102710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 27-OCT-2010 12:28 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129HP MS DFT1027.D, Ion 266.00



Pentachlorophenol

=====
Exp. RT = 9.056
Found RT = 9.056

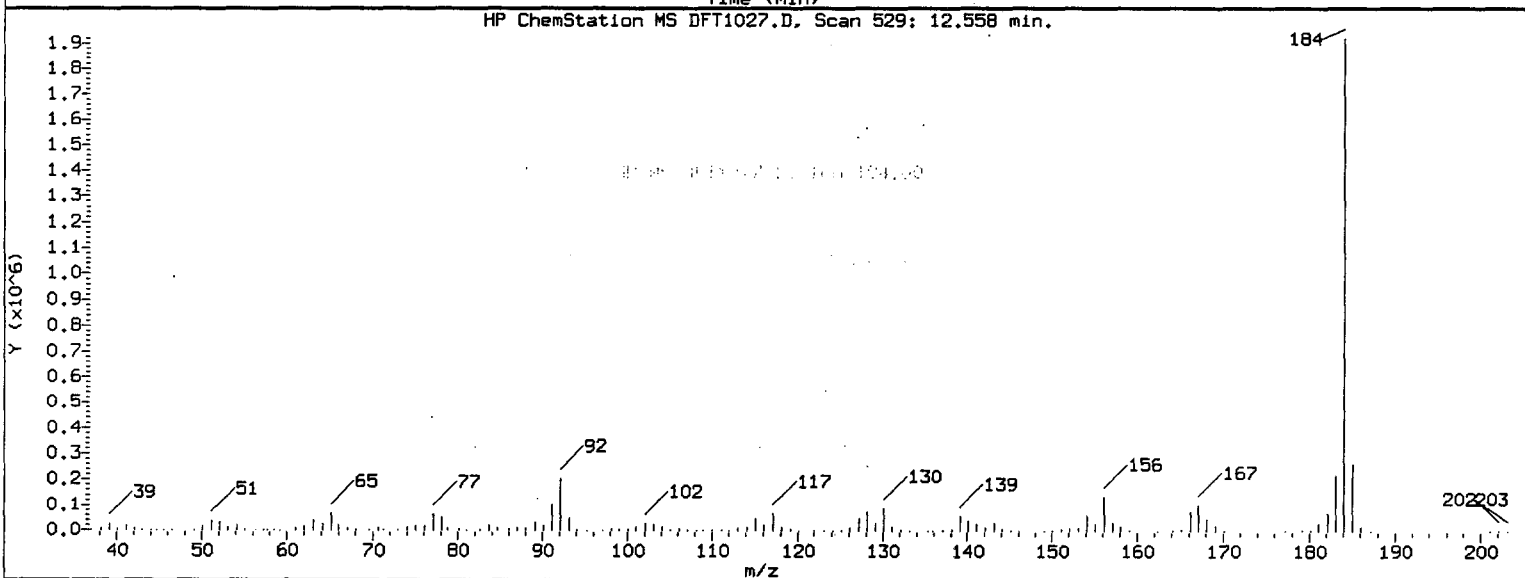
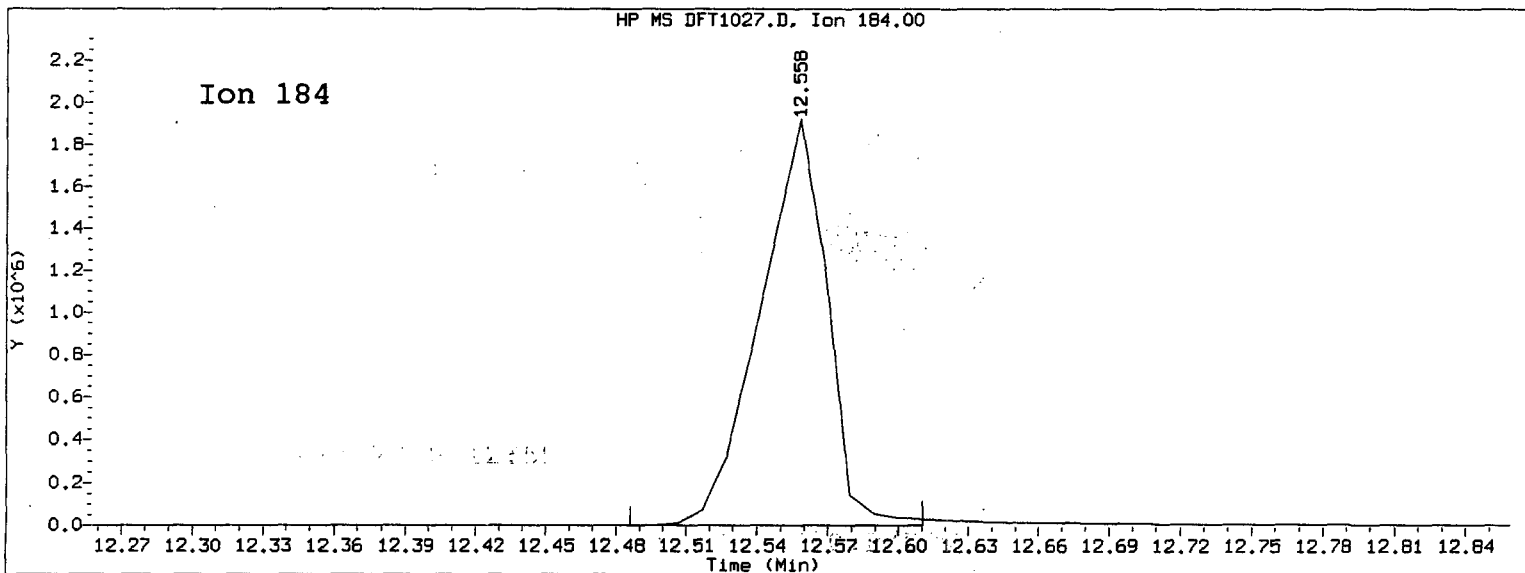
Time1 = 9.028168 Time2 = 9.055717 Time3 = 9.083589
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.012 Maximum Allowed = 5.0

Report Date: 10/27/2010 12:59

Datafile Analyzed: //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D
Method Used: \\SV5\C\chem\sv5.i\102710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 27-OCT-2010 12:28 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.558

Found RT = 12.558

Time1 = 12.52177 Time2 = 12.55842 Time3 = 12.57867

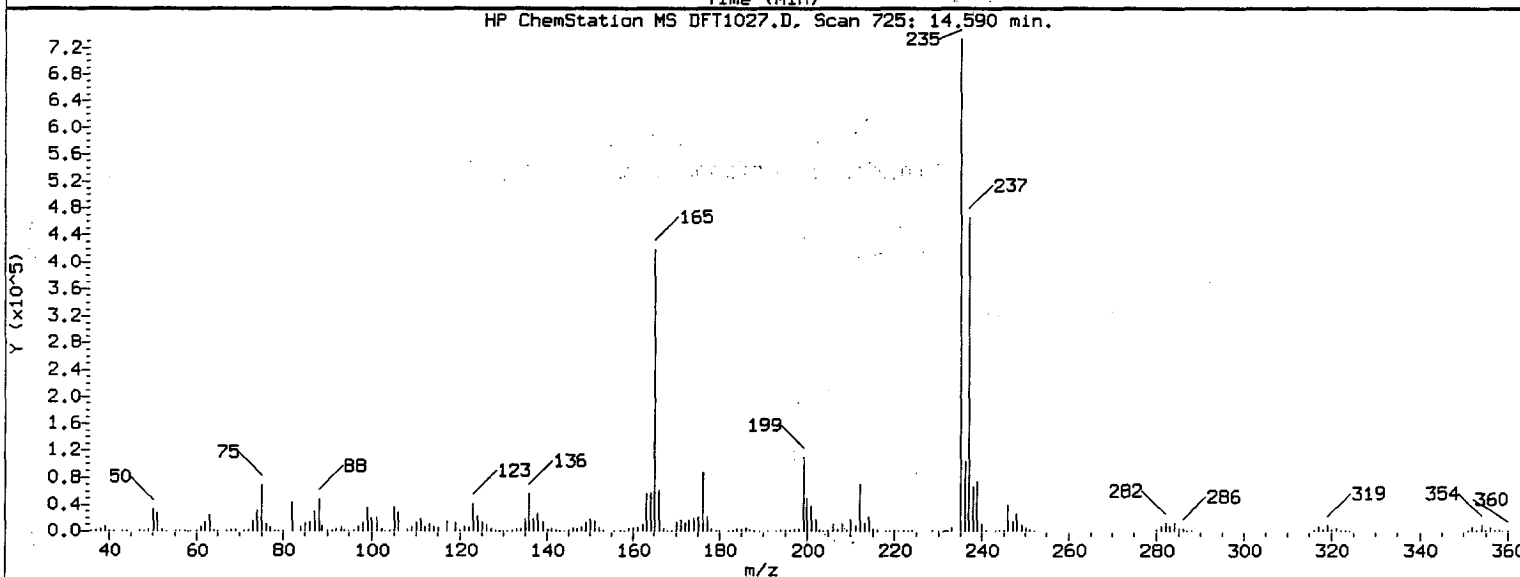
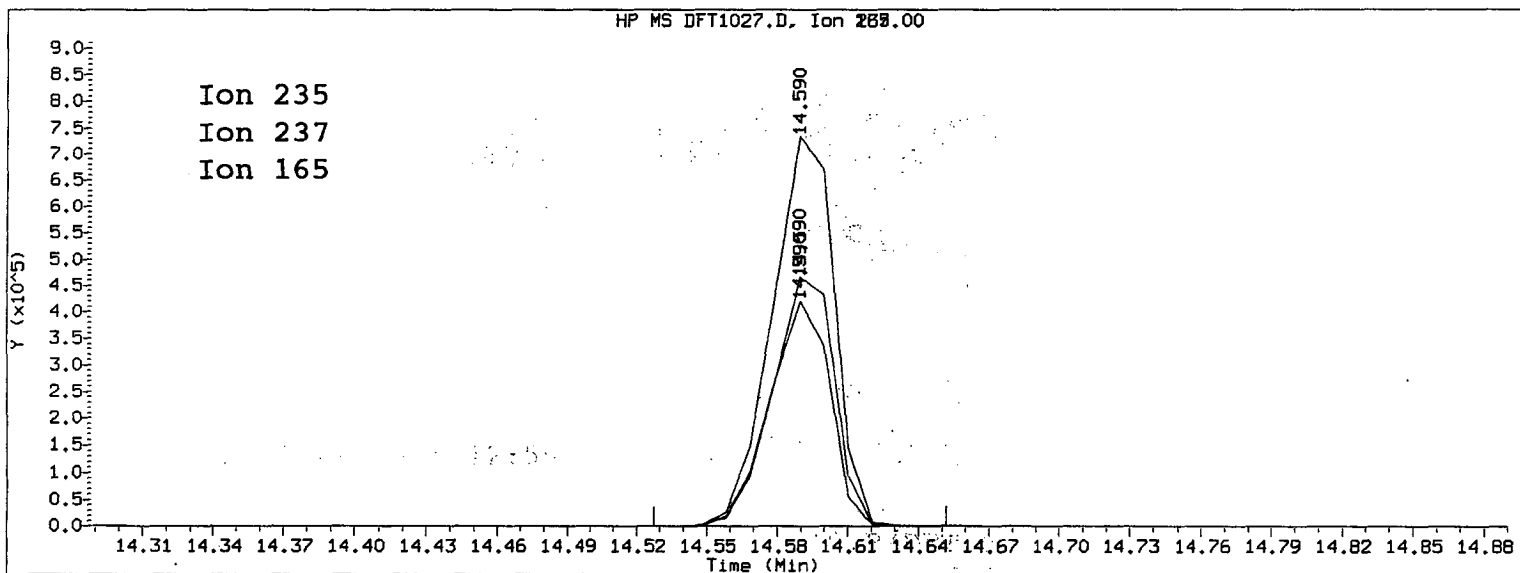
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.553 Maximum Allowed = 3.0

Report Date: 10/27/2010 12:59

Datafile Analyzed: //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D
Method Used: \\SV5\C\chem\sv5.i\102710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 27-OCT-2010 12:28 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

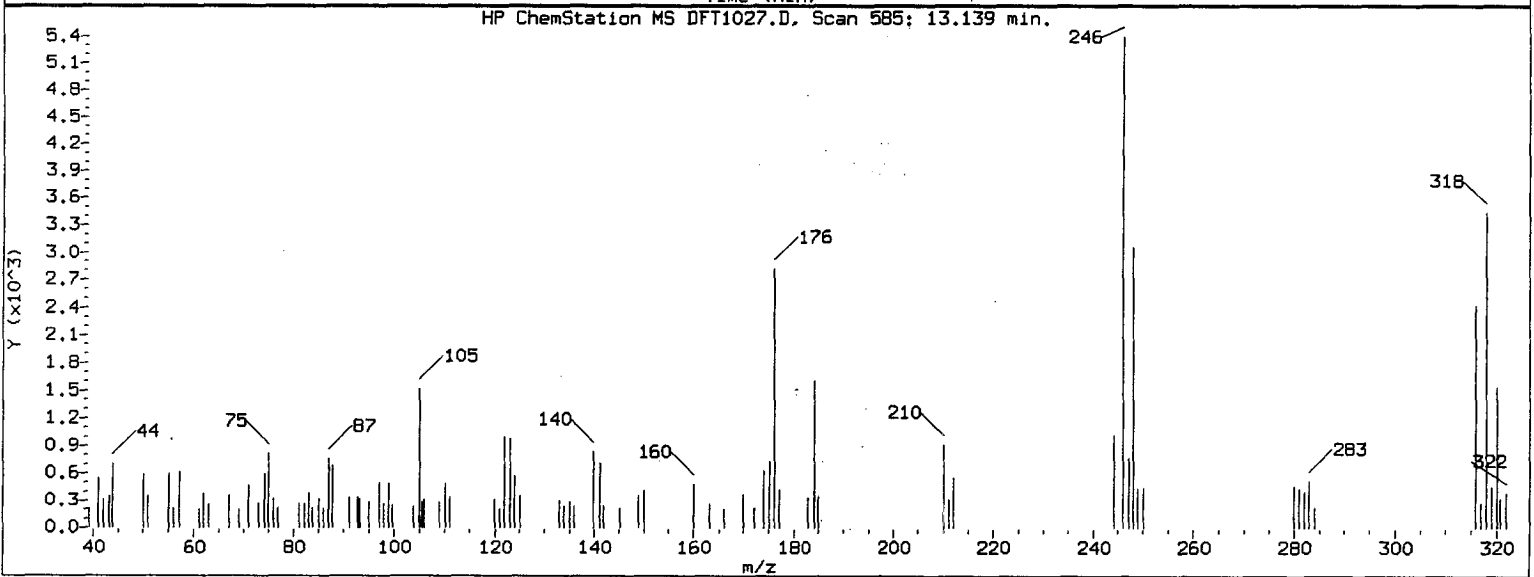
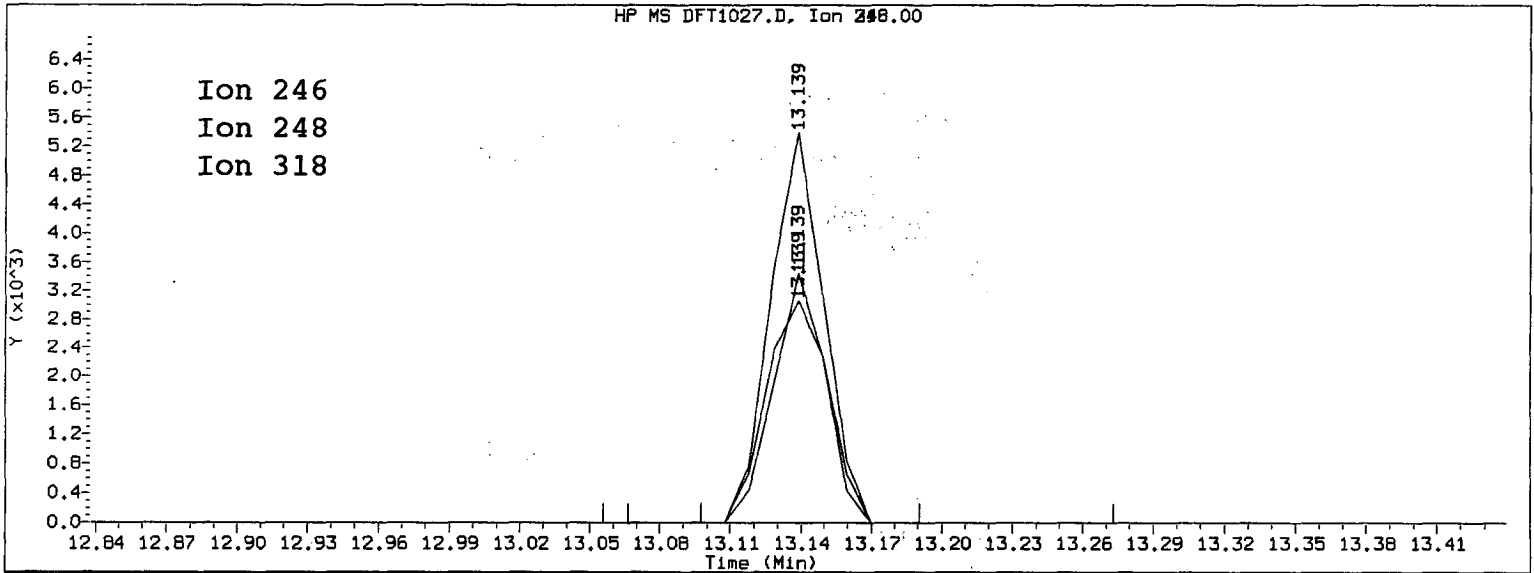
=====

Exp. RT = 14.590
Found RT = 14.590

Mass	Area	Ratio
235	1355008	100.00
237	860217	63.48
165	756538	55.83

Report Date: 10/27/2010 12:59

Datafile Analyzed: //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D
Method Used: \\SV5\C\chem\sv5.i\102710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 27-OCT-2010 12:28 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

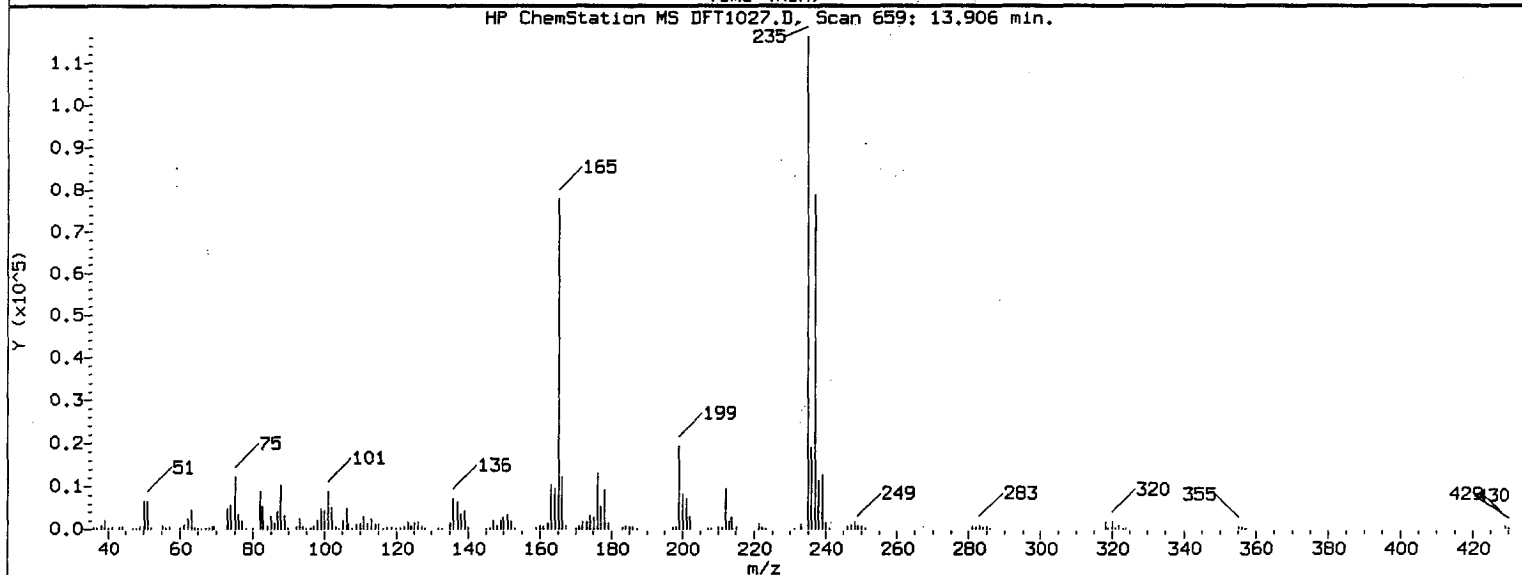
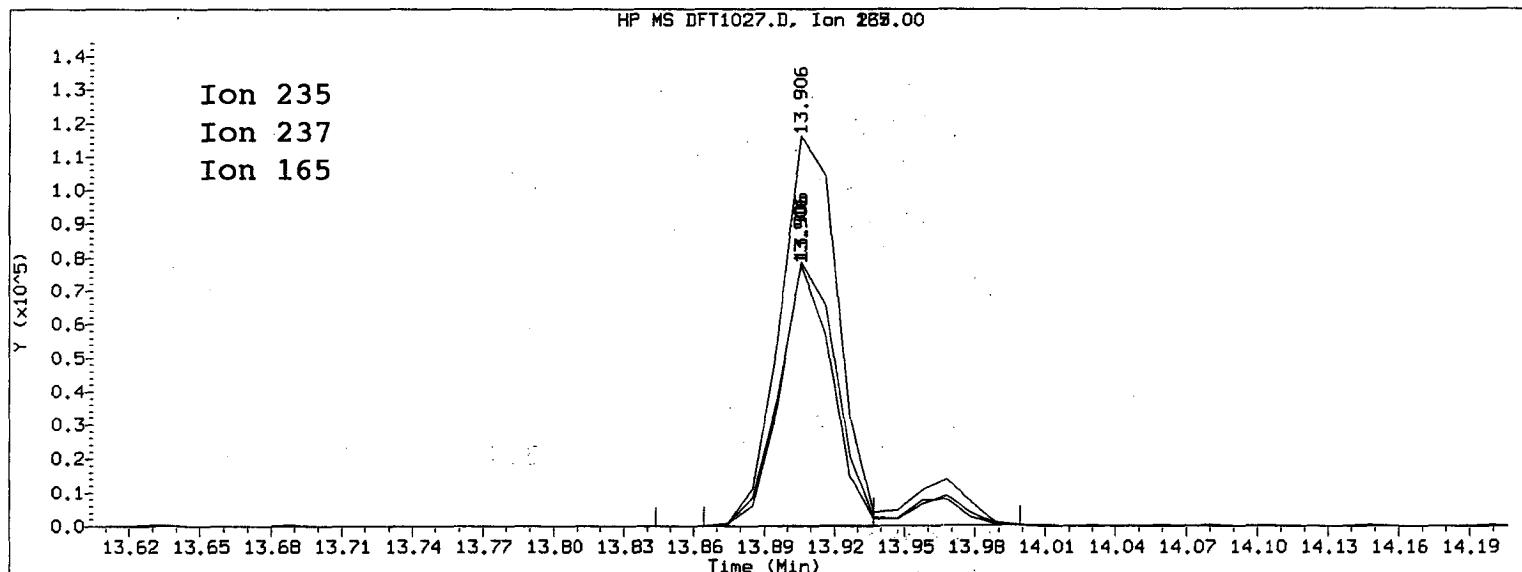
=====

Exp. RT = 13.139
Found RT = 13.139

Mass	Area	Ratio
246	8533	100.00
248	5496	64.41
318	5459	63.98

Report Date: 10/27/2010 12:59

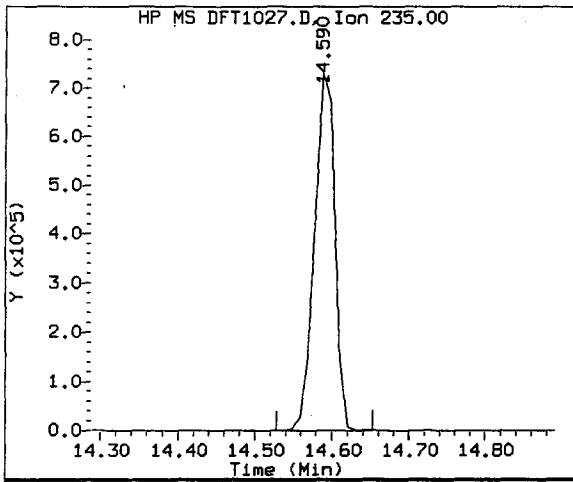
Datafile Analyzed: //SV5/C/chem/sv5.i/102710.B/DFT1027.D/DFT1027.D
Method Used: \\SV5\C\chem\sv5.i\102710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 27-OCT-2010 12:28 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



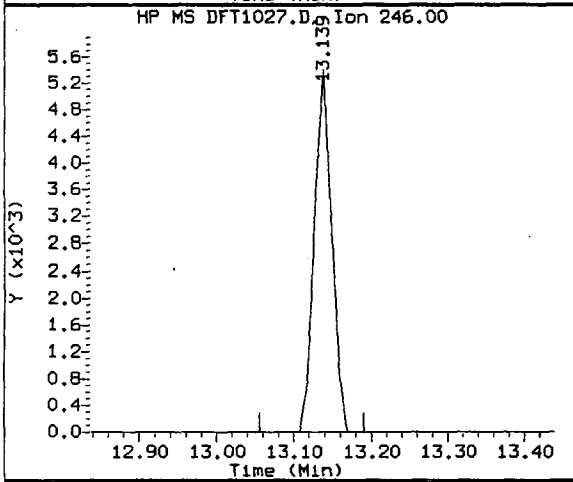
4,4'-DDD

=====
Exp. RT = 13.906
Found RT = 13.906

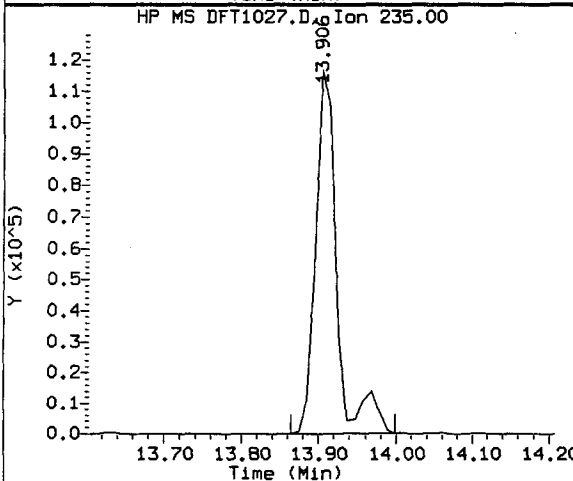
Mass	Area	Ratio
235	224029	100.00
237	130890	58.43
165	123402	55.08



Compound: 4,4'-DDT
 Quant Mass: 235
 RT: 14.590
 Area: 1355008



Compound: 4,4'-DDE
 Quant Mass: 246
 RT: 13.139
 Area: 8533



Compound: 4,4'-DDD
 Quant Mass: 235
 RT: 13.906
 Area: 224029

Compound: 4,4'-DDD
 Quant Mass: 235
 RT: 13.906
 Area: 224029

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	232562	14.6	20.5	PASS

Area: 224029

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\102710.B\DFT1027.D
 Lab Smp Id: DFTPP 50ug/ml
 Inj Date : 27-OCT-2010 12:28
 Operator : srs
 Smp Info : DFTPP 50ug/ml;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\102710.B\DFTPP.m
 Meth Date : 24-Oct-2010 09:42 onishim
 Cal Date :
 Als bottle: 96
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: SV5

Inst ID: sv5.i
 Quant Type: ISTD
 Cal File:
 QC Sample: DFTPP
 Compound Sublist: all.sub
 Sample Matrix: None

CONCENTRATIONS								
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp			CAS #: 5074-71-5					
10.516	10.713	(0.000)	198	124560			0.00- 100.00	100.00
10.516	10.713	(0.000)	51	79104			30.00- 80.00	63.51
10.516	10.713	(0.000)	68	1203			0.00- 2.00	1.78
10.516	10.713	(0.000)	69	67704			0.00- 0.00	54.35
10.516	10.713	(0.000)	70	208			0.00- 2.00	0.31
10.516	10.713	(0.000)	127	80600			25.00- 75.00	64.71
10.516	10.713	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
10.516	10.713	(0.000)	199	9032			5.00- 9.00	7.25
10.516	10.713	(0.000)	275	23384			10.00- 30.00	18.77
10.516	10.713	(0.000)	365	2089			0.75- 0.00	1.68
10.516	10.713	(0.000)	441	10197			0.01- 99.99	76.65
10.516	10.713	(0.000)	442	62648			40.00- 110.00	50.30
10.516	10.713	(0.000)	443	13303			15.00- 24.00	21.23

Date : 27-OCT-2010 12:28

Client ID:

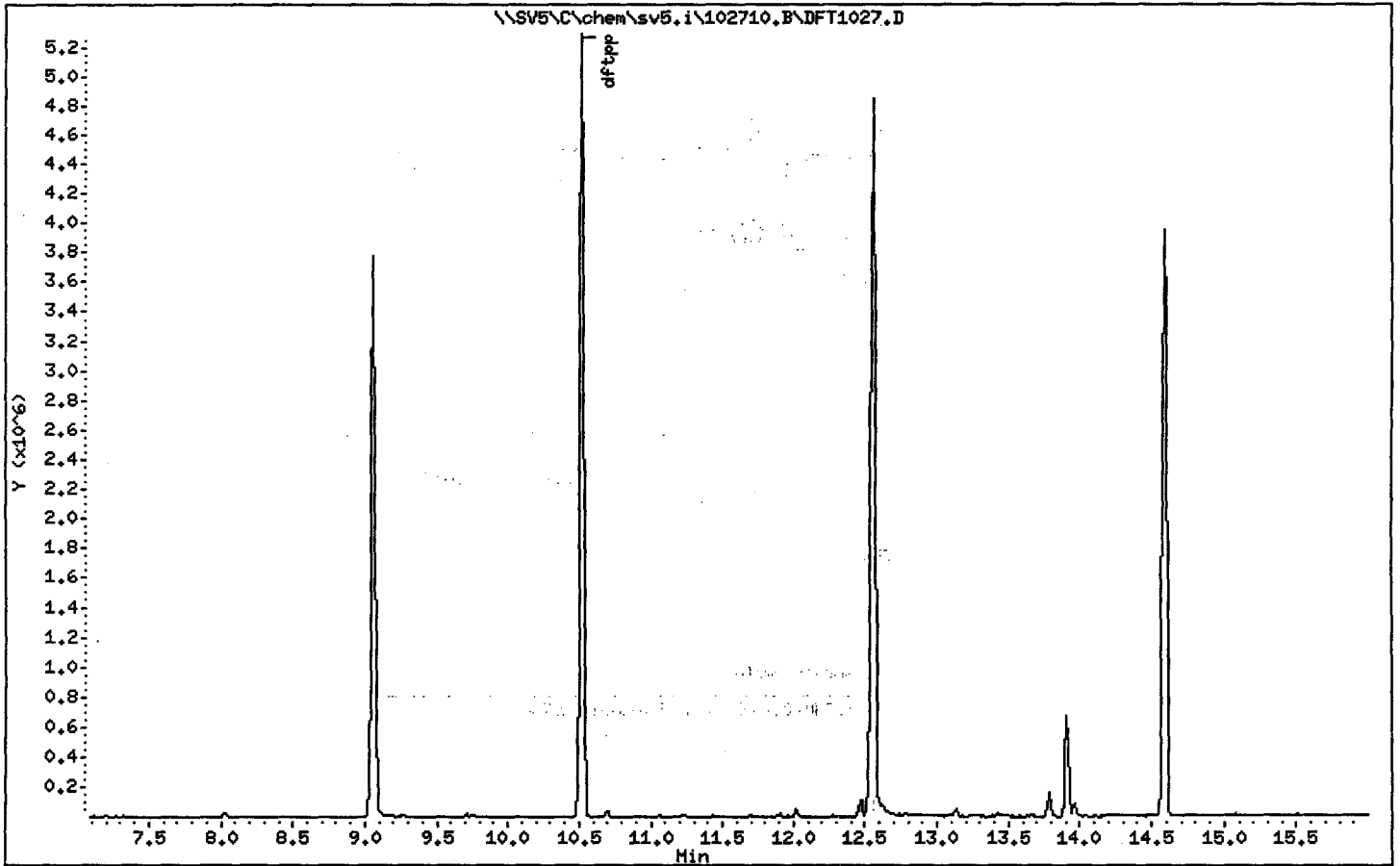
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Date : 27-OCT-2010 12:28

Client ID:

Instrument: sv5.i

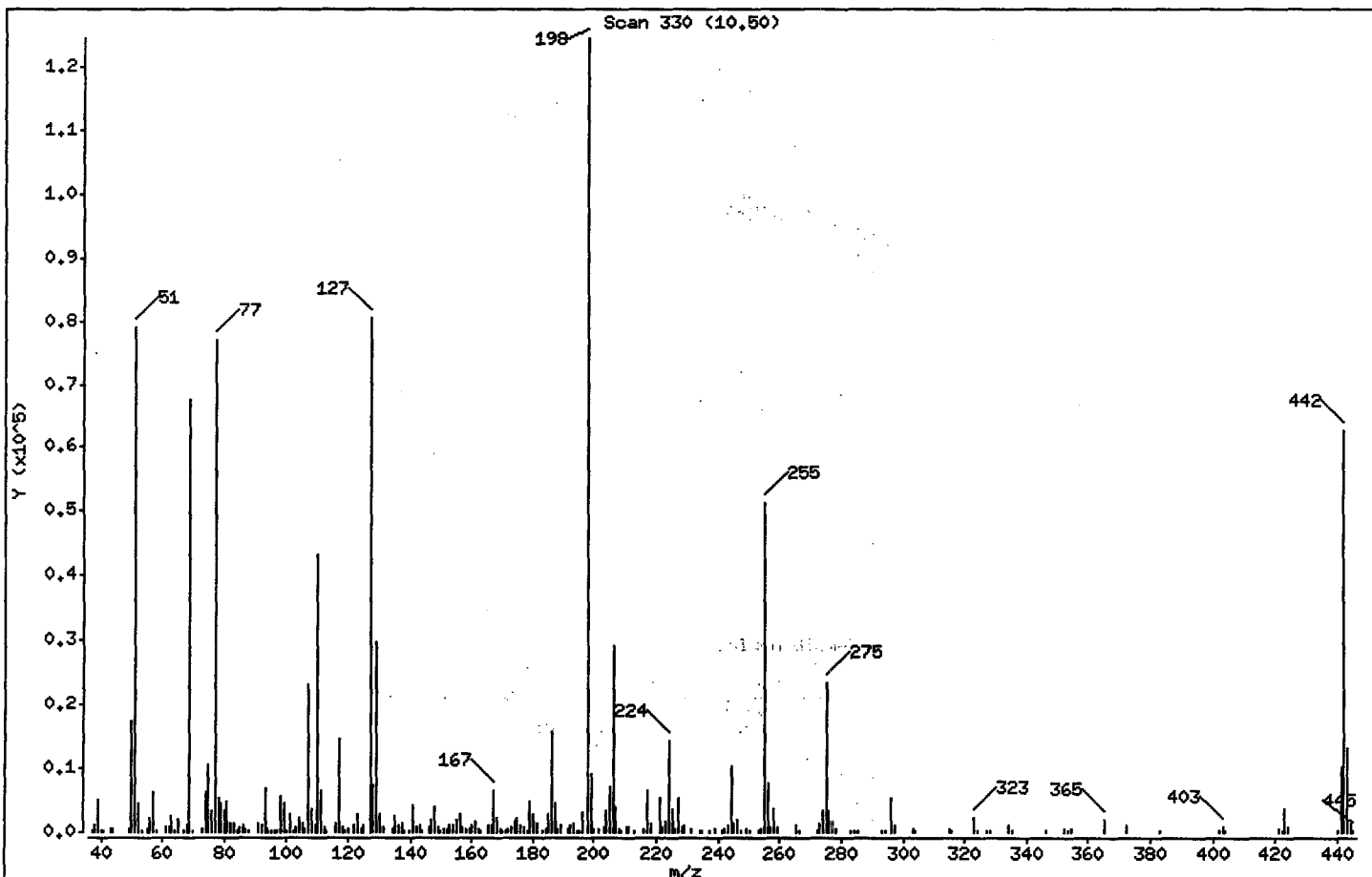
Sample Info: DFTPP 50ug/ml:

Operator: srs

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	63.51
68	Less than 2.00% of mass 69	0.97 (1.78)
69	Mass 69 relative abundance	54.35
70	Less than 2.00% of mass 69	0.17 (0.31)
127	25.00 - 75.00% of mass 198	64.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	18.77
365	Greater than 0.75% of mass 198	1.68
441	Present, but less than mass 443	8.19
442	40.00 - 110.00% of mass 198	50.30
443	15.00 - 24.00% of mass 442	10.68 (21.23)

Date : 27-OCT-2010 12:28

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1027.D
Spectrum: Scan 330 (10.50)
Location of Maximum: 198.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 37.10	248	| 108.00	3669	| 175.00	2387	| 249.00	469
| 38.00	1049	| 109.10	1101	| 176.00	1112	| 250.10	228
| 39.10	5264	| 110.00	43376	| 177.00	899	| 253.00	242
| 40.10	345	| 111.00	6556	| 178.10	334	| 253.60	431
| 41.00	334	| 112.00	1002	| 179.00	4788	| 254.10	538
| 43.00	553	| 112.90	265	| 180.10	2938	| 255.00	51360
| 44.10	519	| 116.00	1384	| 181.00	1399	| 256.00	7846
| 49.20	649	| 117.00	14464	| 182.90	300	| 257.00	739
| 50.00	17392	| 118.10	990	| 184.00	658	| 258.00	3609
| 51.10	79104	| 118.90	282	| 185.00	2778	| 259.00	736
| 52.10	4467	| 120.10	496	| 186.10	15647	| 265.10	1074
| 53.10	255	| 122.00	1097	| 187.00	4703	| 266.10	331
| 55.10	698	| 123.00	2780	| 188.10	435	| 272.00	293
| 56.00	2318	| 124.10	693	| 189.10	1238	| 273.00	1327
| 57.00	6312	| 125.00	1258	| 191.10	438	| 274.00	3526
| 58.00	219	| 127.00	80600	| 192.00	1254	| 275.00	23384
| 61.00	887	| 128.00	7494	| 193.10	1432	| 276.00	3351
| 62.00	966	| 129.00	29848	| 194.20	244	| 277.00	1598
| 63.00	2710	| 130.00	2972	| 195.00	282	| 278.00	546
| 64.20	282	| 131.00	759	| 196.10	3224	| 283.00	416
| 65.00	1889	| 134.00	711	| 198.00	124560	| 284.20	213
| 66.90	275	| 135.00	2699	| 199.00	9032	| 285.10	387
| 68.10	1203	| 136.00	1028	| 199.90	453	| 293.10	220
| 69.00	67704	| 137.00	1328	| 201.60	708	| 294.40	219
| 70.10	208	| 138.10	352	| 203.00	859	| 296.00	5328
| 73.00	450	| 139.90	378	| 204.00	3515	| 297.00	1260
| 74.10	6384	| 141.00	4268	| 205.10	7225	| 303.10	691
| 75.00	10595	| 142.10	999	| 206.10	29296	| 304.00	264
| 76.10	3479	| 143.00	1025	| 207.10	4009	| 315.00	588
| 77.10	77112	| 144.00	282	| 208.10	683	| 316.00	288
| 78.10	5344	| 146.10	952	| 208.90	346	| 323.10	2202
| 79.00	4702	| 147.00	1870	| 210.70	780	| 324.00	341
| 80.00	3439	| 148.00	3992	| 211.10	971	| 327.10	366
| 81.00	4882	| 149.10	927	| 212.90	233	| 328.00	308
| 82.00	1430	| 150.00	392	| 216.00	639	| 334.00	1043

Date : 27-OCT-2010 12:28

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1027.D
Spectrum: Scan 330 (10.50)
Location of Maximum: 198.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 83.10	1512	| 151.00	596	| 217.00	6459	| 335.10	355
| 84.10	217	| 152.10	577	| 218.00	1303	| 346.00	241
| 85.00	731	| 152.90	1029	| 221.10	5308	| 352.10	555
| 86.00	1152	| 154.00	1023	| 222.00	898	| 353.10	386
| 86.90	603	| 155.00	2062	| 223.00	1750	| 354.20	657
| 88.00	401	| 156.00	2787	| 224.10	14348	| 365.00	2089
| 91.00	1300	| 157.00	970	| 225.10	3803	| 372.00	1130
| 92.00	1212	| 157.80	495	| 226.10	584	| 383.00	304
| 93.00	6955	| 159.00	500	| 227.00	5489	| 402.00	333
| 94.10	637	| 160.10	1190	| 228.10	851	| 403.00	896
| 95.00	326	| 161.00	1749	| 229.00	1159	| 404.00	252
| 96.10	311	| 162.10	450	| 231.00	579	| 421.00	607
| 97.00	331	| 163.00	303	| 234.10	254	| 422.00	421
| 98.00	5603	| 165.00	1170	| 235.00	290	| 423.00	3831
| 99.00	4648	| 166.10	1204	| 237.00	412	| 424.00	928
| 100.00	397	| 167.00	6467	| 239.00	562	| 439.80	262
| 101.00	2960	| 168.00	2353	| 241.10	244	| 441.00	10197
| 102.10	351	| 169.10	476	| 242.00	617	| 442.00	62648
| 103.00	783	| 170.00	273	| 243.10	1072	| 443.00	13303
| 104.00	2223	| 171.00	320	| 244.10	10185	| 444.10	1384
| 105.00	1535	| 171.90	605	| 245.10	1463	| 445.00	269
| 106.00	709	| 173.00	872	| 246.00	2044		
| 107.00	23288	| 174.00	1698	| 247.00	227		

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102701.D
 Lab Smp Id: L8WGC1AA G0J210000- Client Smp ID: 0294378
 Inj Date : 27-OCT-2010 13:42
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AA G0J210000-378B;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.820	3.820	(1.000)	85534	40.0000	(Q)
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	368895	40.0000	
* 3 Acenaphthene-d10	164	7.322	7.333	(1.000)	203934	40.0000	
* 4 Phenanthrene-d10	188	9.229	9.240	(1.000)	318274	40.0000	
* 5 Chrysene-d12	240	13.571	13.582	(1.000)	312725	40.0000	
* 6 Perylene-d12	264	15.955	15.955	(1.000)	328525	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.680)	177942	59.0208	59.02
\$ 8 Phenol-d5	99	3.478	3.478	(0.910)	246863	65.1146	65.11
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.017	(1.052)	81306	38.5968	38.60(q)
\$ 11 Nitrobenzene-d5	82	4.441	4.442	(0.849)	99991	32.0023	32.00
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	218717	33.2936	33.29
\$ 13 2,4,6-Tribromophenol	330	8.317	8.328	(1.136)	80331	90.6498	90.65
\$ 14 Terphenyl-d14	244	11.830	11.830	(0.872)	255894	41.5422	41.54
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 q - Qualifier signal exceeded ratio warning limit.

Handwritten: 10/29/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AA G0J210000- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.02	59.02	41-105
\$ 8 Phenol-d5	100.0	65.11	65.11	43-122
\$ 10 1,2-Dichlorobenzen	50.00	38.60	77.19	60-120
\$ 11 Nitrobenzene-d5	50.00	32.00	64.00	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.29	66.59	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.65	90.65	61-118
\$ 14 Terphenyl-d14	50.00	41.54	83.08	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102701.D
 Lab Smp Id: L8WGC1AA G0J210000- Client Smp ID: 0294378
 Inj Date : 27-OCT-2010 13:42
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AA G0J210000-378B;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	85534	40.0000	(Q)
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	368895	40.0000	
* 3 Acenaphthene-d10	164		7.322	7.333	(1.000)	203934	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	318274	40.0000	
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	312725	40.0000	
* 6 Perylene-d12	264		15.955	15.955	(1.000)	328525	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.680)	177942	59.0208	59.02
\$ 8 Phenol-d5	99		3.478	3.478	(0.910)	246863	65.1146	65.11
\$ 10 1,2-Dichlorobenzene-d4	152		4.017	4.017	(1.052)	81306	38.5968	38.60(q)
\$ 11 Nitrobenzene-d5	82		4.441	4.442	(0.849)	99991	32.0023	32.00
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	218717	33.2936	33.29
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	80331	90.6498	90.65
\$ 14 Terphenyl-d14	244		11.830	11.830	(0.872)	255894	41.5422	41.54
108 Hexachlorobenzene	284		Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102701.D
 Lab Smp Id: L8WGC1AA G0J210000-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Client Smp ID: 0294378
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	85534	-30.25
2 Naphthalene-d8	530514	265257	1061028	368895	-30.46
3 Acenaphthene-d10	282538	141269	565076	203934	-27.82
4 Phenanthrene-d10	462722	231361	925444	318274	-31.22
5 Chrysene-d12	435850	217925	871700	312725	-28.25
6 Perylene-d12	422284	211142	844568	328525	-22.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	-0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	-0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.96	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

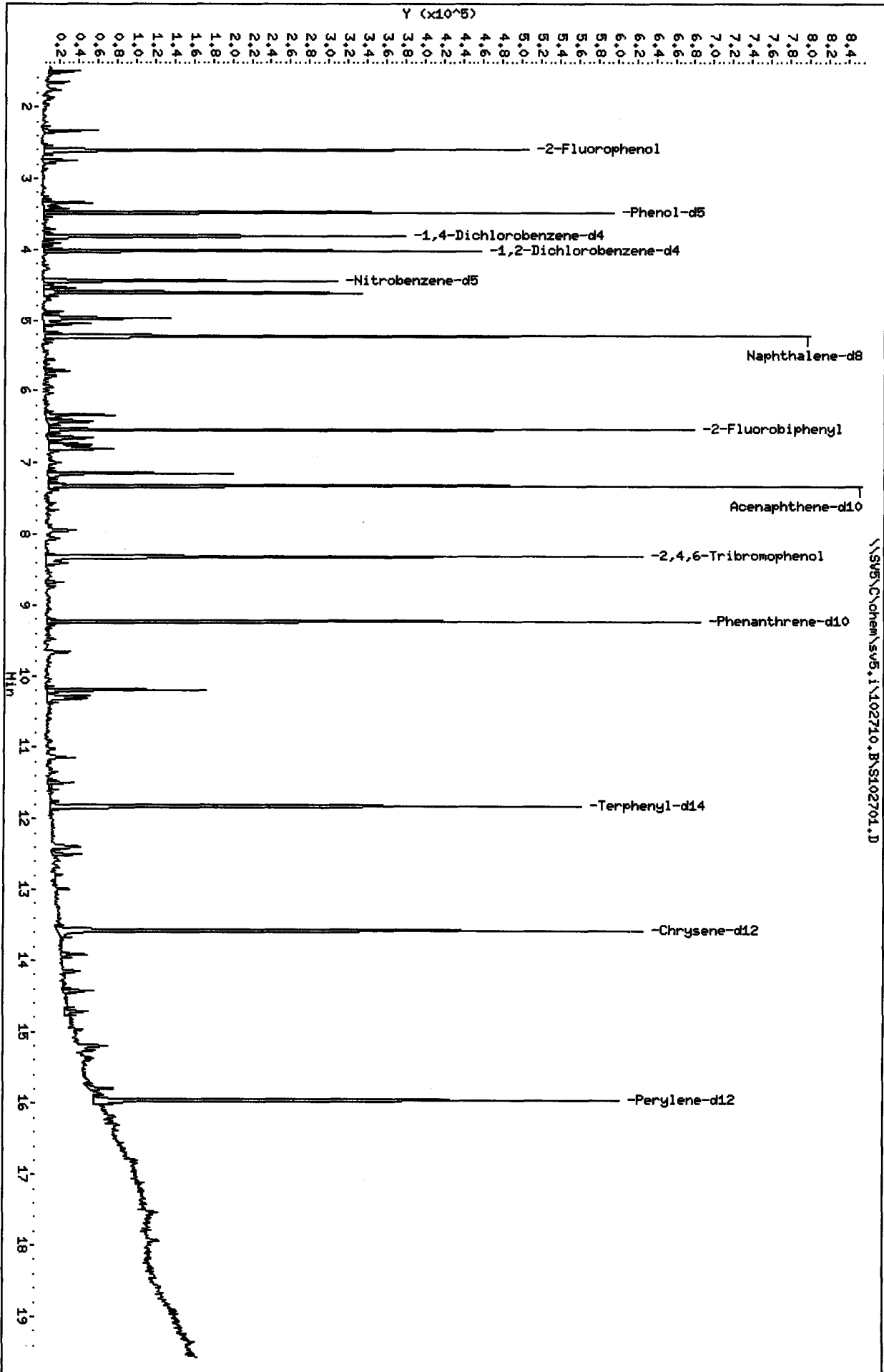
RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AA G0J210000- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.02	59.02	41-105
\$ 8 Phenol-d5	100.0	65.11	65.11	43-122
\$ 10 1,2-Dichlorobenzen	50.00	38.60	77.19	60-120
\$ 11 Nitrobenzene-d5	50.00	32.00	64.00	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.29	66.59	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.65	90.65	61-118
\$ 14 Terphenyl-d14	50.00	41.54	83.08	69-110

Data File: \\SV5\C\chem\sv5.i\102710.B\S102701.D
 Date : 27-OCT-2010 13:42
 Client ID: 0294378
 Sample Info: LHMCC1AA GOJ210000-3788;0;11000;1000;5
 Volume Injected (uL): 1.0
 Column phase:

Instrument: sv5.i
 Operator: srs
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102702.D
 Lab Smp Id: L8WGC1AC G0J210000-
 Inj Date : 27-OCT-2010 14:07
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AC G0J210000-378C;3;LCS;;1000;;1000;2
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (NG)	FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	85969	40.0000		
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	365192	40.0000		
* 3 Acenaphthene-d10	164		7.323	7.333	(1.000)	199920	40.0000		
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	308944	40.0000		
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	306019	40.0000		
* 6 Perylene-d12	264		15.945	15.955	(1.000)	316388	40.0000		
\$ 7 2-Fluorophenol	112		2.607	2.597	(0.683)	212904	70.2599	70.26	
\$ 8 Phenol-d5	99		3.488	3.478	(0.913)	292753	76.8281	76.83	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.849)	122789	39.6974	39.70	
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	262607	40.7772	40.78	
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	82599	95.0806	95.08	
\$ 14 Terphenyl-d14	244		11.820	11.830	(0.871)	254726	42.2588	42.26	
108 Hexachlorobenzene	284		8.815	8.815	(0.955)	153003	90.8432	90.84	

W
10/29/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AC GOJ210000-
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: LCS
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	90.84	90.84	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	70.26	70.26	41-105
\$ 8 Phenol-d5	100.0	76.83	76.83	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	39.70	79.39	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.78	81.55	58-105
\$ 13 2,4,6-Tribromophen	100.0	95.08	95.08	61-118
\$ 14 Terphenyl-d14	50.00	42.26	84.52	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102702.D
 Lab Smp Id: L8WGC1AC G0J210000-
 Inj Date : 27-OCT-2010 14:07
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AC G0J210000-378C;3;LCS;;1000;;1000;2
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	85969	40.0000	
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	365192	40.0000	
* 3 Acenaphthene-d10	164		7.323	7.333	(1.000)	199920	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	308944	40.0000	
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	306019	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	316388	40.0000	
\$ 7 2-Fluorophenol	112		2.607	2.597	(0.683)	212904	70.2599	70.26
\$ 8 Phenol-d5	99		3.488	3.478	(0.913)	292753	76.8281	76.83
\$ 10 1,2-Dichlorobenzene-d4	152		3.820	4.017	(1.000)	85969	40.6039	40.60 (q)
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.849)	122789	39.6974	39.70
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	262607	40.7772	40.78
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	82599	95.0806	95.08
\$ 14 Terphenyl-d14	244		11.820	11.830	(0.871)	254726	42.2588	42.26
108 Hexachlorobenzene	284		8.815	8.815	(0.955)	153003	90.8432	90.84

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102702.D
 Lab Smp Id: L8WGC1AC G0J210000-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	85969	-29.89
2 Naphthalene-d8	530514	265257	1061028	365192	-31.16
3 Acenaphthene-d10	282538	141269	565076	199920	-29.24
4 Phenanthrene-d10	462722	231361	925444	308944	-33.23
5 Chrysene-d12	435850	217925	871700	306019	-29.79
6 Perylene-d12	422284	211142	844568	316388	-25.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AC G0J210000-
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: LCS
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	90.84	90.84	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	70.26	70.26	41-105
\$ 8 Phenol-d5	100.0	76.83	76.83	43-122
\$ 10 1,2-Dichlorobenzen	50.00	40.60	81.21	60-120
\$ 11 Nitrobenzene-d5	50.00	39.70	79.39	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.78	81.55	58-105
\$ 13 2,4,6-Tribromophen	100.0	95.08	95.08	61-118
\$ 14 Terphenyl-d14	50.00	42.26	84.52	69-110

Client ID:

Sample Info: LBMCC1AC G0J210000-378C;3;LCS;1000;1000;2

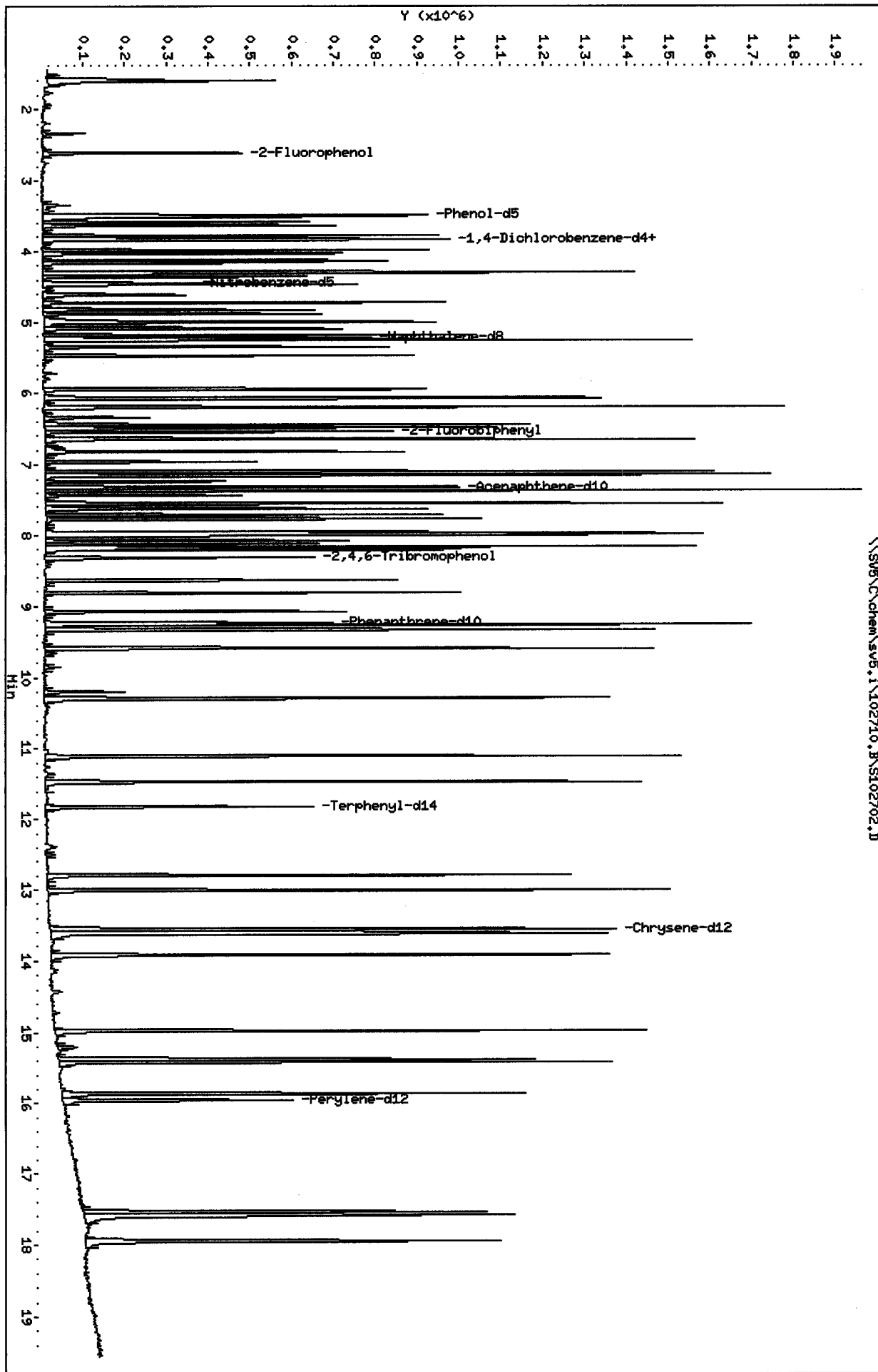
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: srs

Column diameter: 2.00



\\SV5\chem\sv5.i\102710.B\S102702.D

Date : 27-OCT-2010 14:07

Client ID:

Instrument: sv5.i

Sample Info: LBWGC1AC G0J210000-378C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

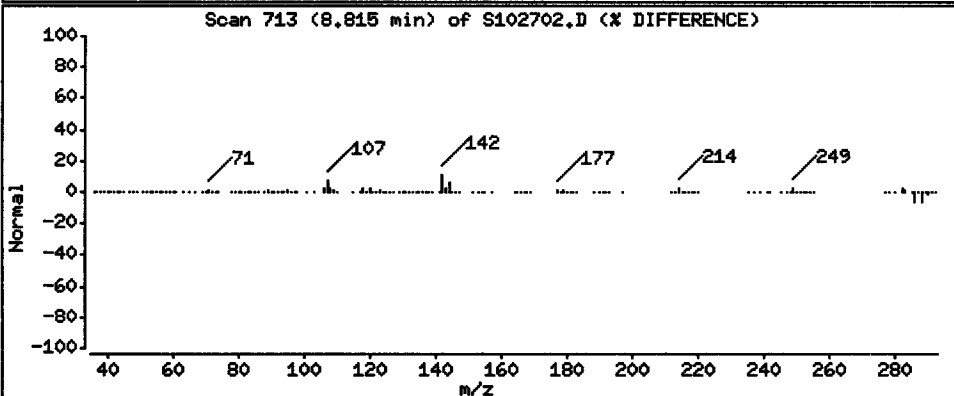
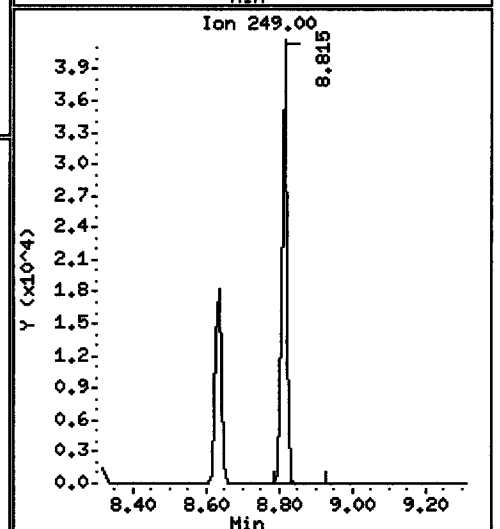
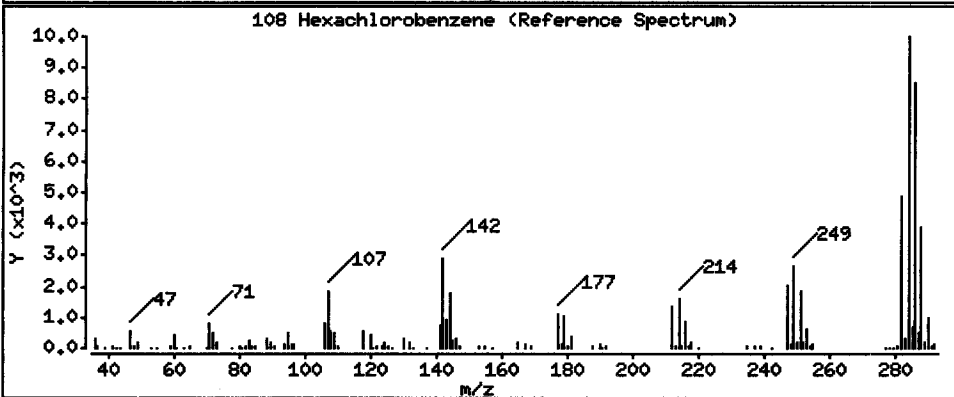
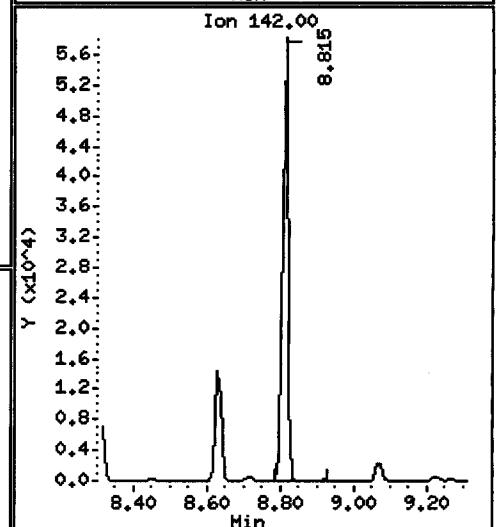
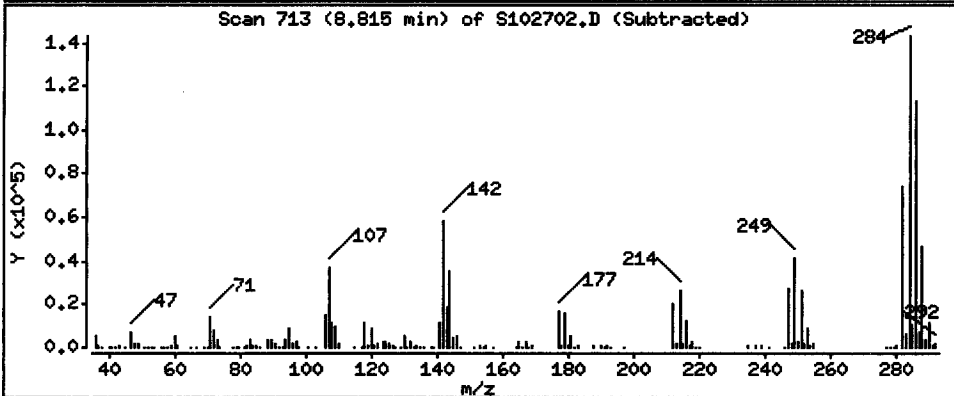
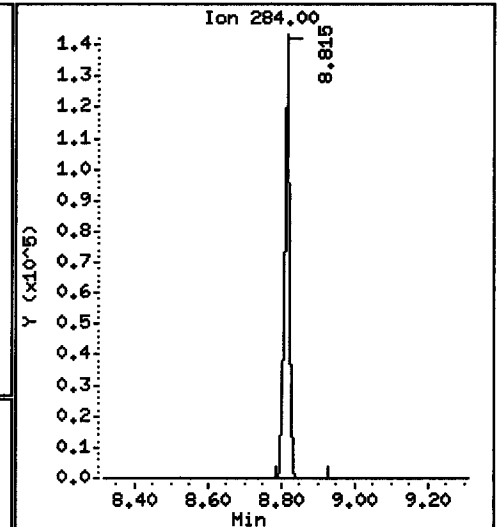
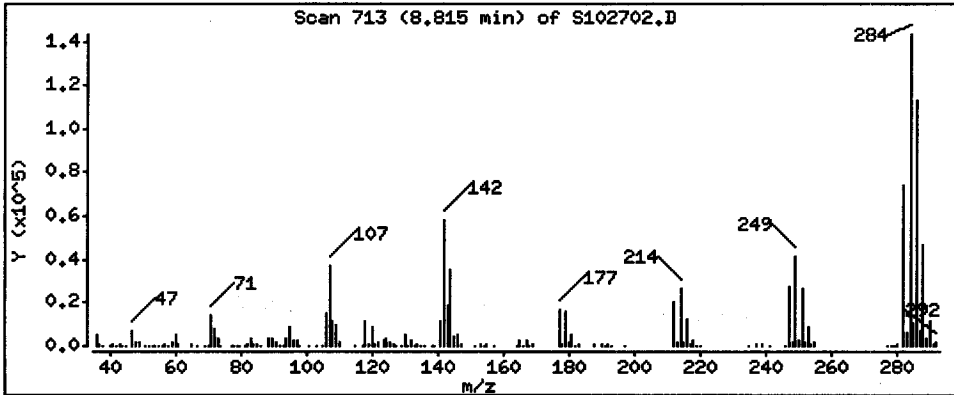
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 90.84 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102703.D
 Lab Smp Id: L8WGC1AD G0J210000-
 Inj Date : 27-OCT-2010 14:32
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AD G0J210000-378L;3;LCSD;;1000;;1000;2
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 3 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.820	3.820	(1.000)	92010	40.0000	
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	407623	40.0000	
* 3 Acenaphthene-d10	164	7.322	7.333	(1.000)	224049	40.0000	
* 4 Phenanthrene-d10	188	9.229	9.240	(1.000)	345849	40.0000	
* 5 Chrysene-d12	240	13.582	13.582	(1.000)	350427	40.0000	
* 6 Perylene-d12	264	15.945	15.955	(1.000)	366459	40.0000	
\$ 7 2-Fluorophenol	112	2.607	2.597	(0.683)	234129	72.1914	72.19
\$ 8 Phenol-d5	99	3.488	3.478	(0.913)	314876	77.2086	77.21
\$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
\$ 11 Nitrobenzene-d5	82	4.442	4.442	(0.849)	128900	37.3351	37.34
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	281095	38.9473	38.95
\$ 13 2,4,6-Tribromophenol	330	8.317	8.328	(1.136)	92345	94.8514	94.85
\$ 14 Terphenyl-d14	244	11.820	11.830	(0.870)	285553	41.3696	41.37
108 Hexachlorobenzene	284	8.815	8.815	(0.955)	170011	90.1702	90.17

Handwritten signature and date: 10/29/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AD G0J210000-
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	90.17	90.17	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	72.19	72.19	41-105
\$ 8 Phenol-d5	100.0	77.21	77.21	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	37.34	74.67	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.95	77.89	58-105
\$ 13 2,4,6-Tribromophen	100.0	94.85	94.85	61-118
\$ 14 Terphenyl-d14	50.00	41.37	82.74	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102703.D
 Lab Smp Id: L8WGC1AD G0J210000-
 Inj Date : 27-OCT-2010 14:32
 Operator : srs Inst ID: sv5.i
 Smp Info : L8WGC1AD G0J210000-378L;3;LCSD;;1000;;1000;2
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 3 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	SIG	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	92010	40.0000	
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	407623	40.0000	
* 3 Acenaphthene-d10	164		7.322	7.333	(1.000)	224049	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	345849	40.0000	
* 5 Chrysene-d12	240		13.582	13.582	(1.000)	350427	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	366459	40.0000	
\$ 7 2-Fluorophenol	112		2.607	2.597	(0.683)	234129	72.1914	72.19
\$ 8 Phenol-d5	99		3.488	3.478	(0.913)	314876	77.2086	77.21
\$ 10 1,2-Dichlorobenzene-d4	152		3.820	4.017	(1.000)	92010	40.6039	40.60(Q)
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.849)	128900	37.3351	37.34
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	281095	38.9473	38.95
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	92345	94.8514	94.85
\$ 14 Terphenyl-d14	244		11.820	11.830	(0.870)	285553	41.3696	41.37
108 Hexachlorobenzene	284		8.815	8.815	(0.955)	170011	90.1702	90.17

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102703.D
 Lab Smp Id: L8WGC1AD G0J210000-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	92010	-24.97
2 Naphthalene-d8	530514	265257	1061028	407623	-23.16
3 Acenaphthene-d10	282538	141269	565076	224049	-20.70
4 Phenanthrene-d10	462722	231361	925444	345849	-25.26
5 Chrysene-d12	435850	217925	871700	350427	-19.60
6 Perylene-d12	422284	211142	844568	366459	-13.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	-0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	-0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.58	-0.00
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8WGC1AD G0J210000-
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	90.17	90.17	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	72.19	72.19	41-105
\$ 8 Phenol-d5	100.0	77.21	77.21	43-122
\$ 10 1,2-Dichlorobenzen	50.00	40.60	81.21	60-120
\$ 11 Nitrobenzene-d5	50.00	37.34	74.67	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.95	77.89	58-105
\$ 13 2,4,6-Tribromophen	100.0	94.85	94.85	61-118
\$ 14 Terphenyl-d14	50.00	41.37	82.74	69-110

Client ID:

Sample Info: LBMCC1AD G0J210000-37BL;3;LCSID;1000;1000;2

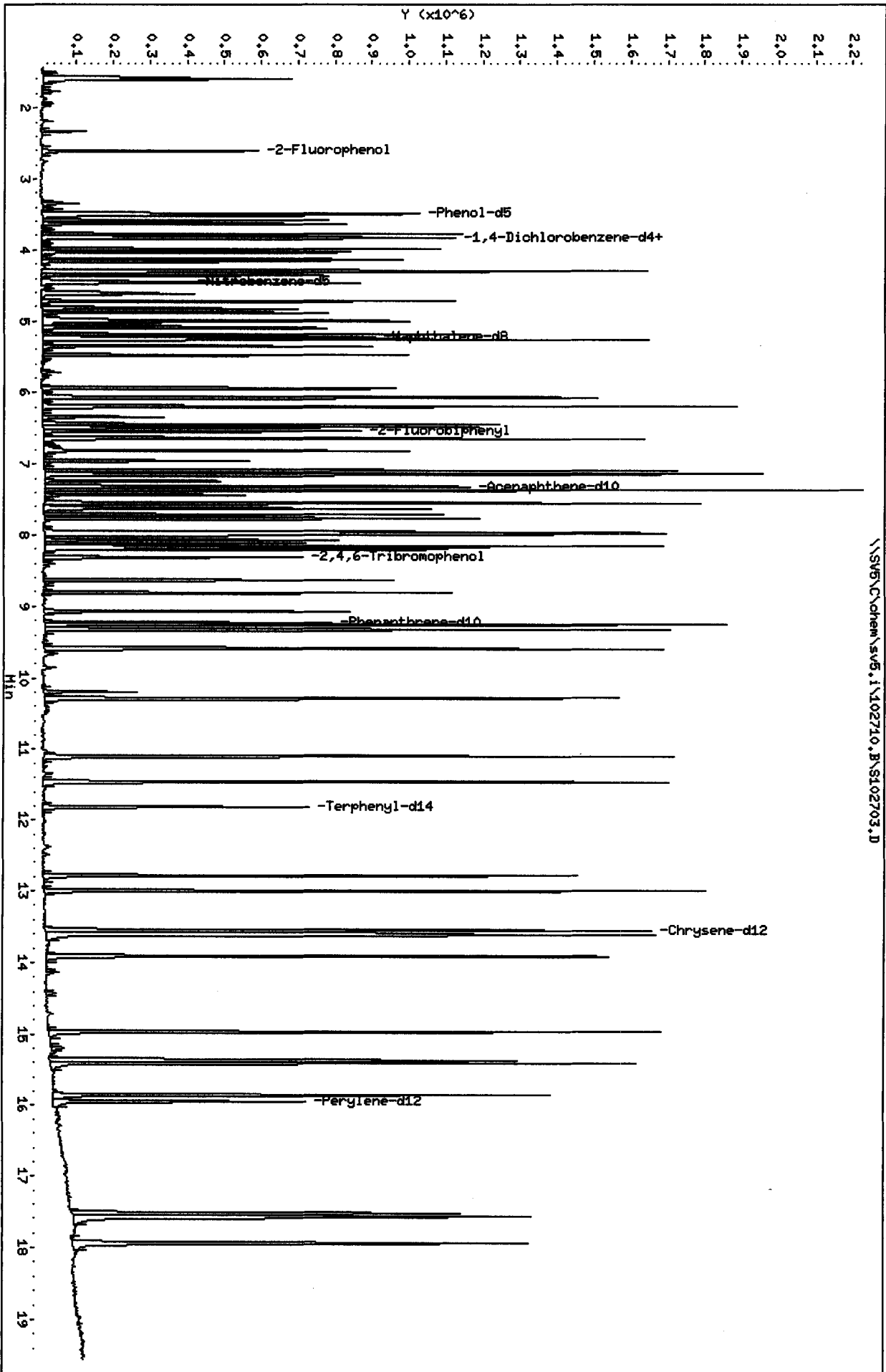
Volume Injected (uL): 1.0

Column phases:

Instrument: sv5.i

Operator: srs

Column diameter: 2.00



Date : 27-OCT-2010 14:32

Client ID:

Instrument: sv5.i

Sample Info: L8WGC1AD G0J210000-378L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

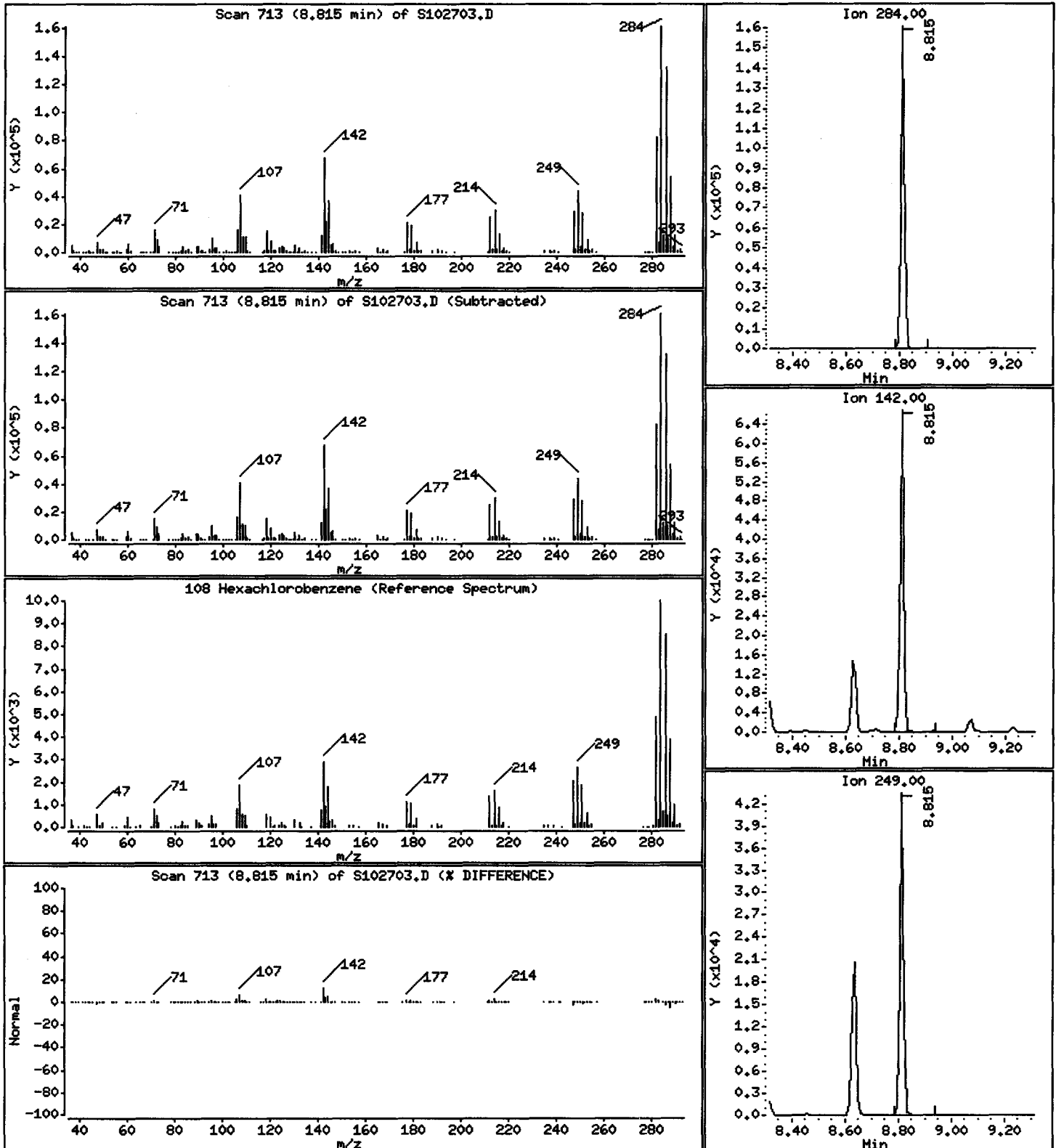
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 90.17 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102705.D
 Lab Smp Id: L8VH71AA G0J210484- Client Smp ID: 0294378
 Inj Date : 27-OCT-2010 15:22
 Operator : srs Inst ID: sv5.i
 Smp Info : L8VH71AA G0J210484-12;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	75979	40.0000	(q)
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	331740	40.0000	
* 3 Acenaphthene-d10	164		7.323	7.333	(1.000)	181983	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	297002	40.0000	
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	280394	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	280012	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.680)	175018	65.3513	65.35
\$ 8 Phenol-d5	99		3.478	3.478	(0.910)	257556	76.4784	76.48
\$ 10 1,2-Dichlorobenzene-d4	152		4.017	4.017	(1.052)	42112	22.5051	22.50 (R)
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.849)	96445	34.3246	34.32
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	216184	36.8774	36.88
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	73380	92.7940	92.79
\$ 14 Terphenyl-d14	244		11.820	11.830	(0.871)	221517	40.1080	40.11
108 Hexachlorobenzene	284		8.815	8.815	(0.955)	1426	0.88071	0.8807 (aq)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

Handwritten: 10/29/10

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 27-OCT-2010
 Lab File ID: S102705.D Calibration Time: 12:06
 Lab Smp Id: L8VH71AA G0J210484- Client Smp ID: 0294378
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: AIR
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	75979	-38.04
2 Naphthalene-d8	530514	265257	1061028	331740	-37.47
3 Acenaphthene-d10	282538	141269	565076	181983	-35.59
4 Phenanthrene-d10	462722	231361	925444	297002	-35.81
5 Chrysene-d12	435850	217925	871700	280394	-35.67
6 Perylene-d12	422284	211142	844568	280012	-33.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.06

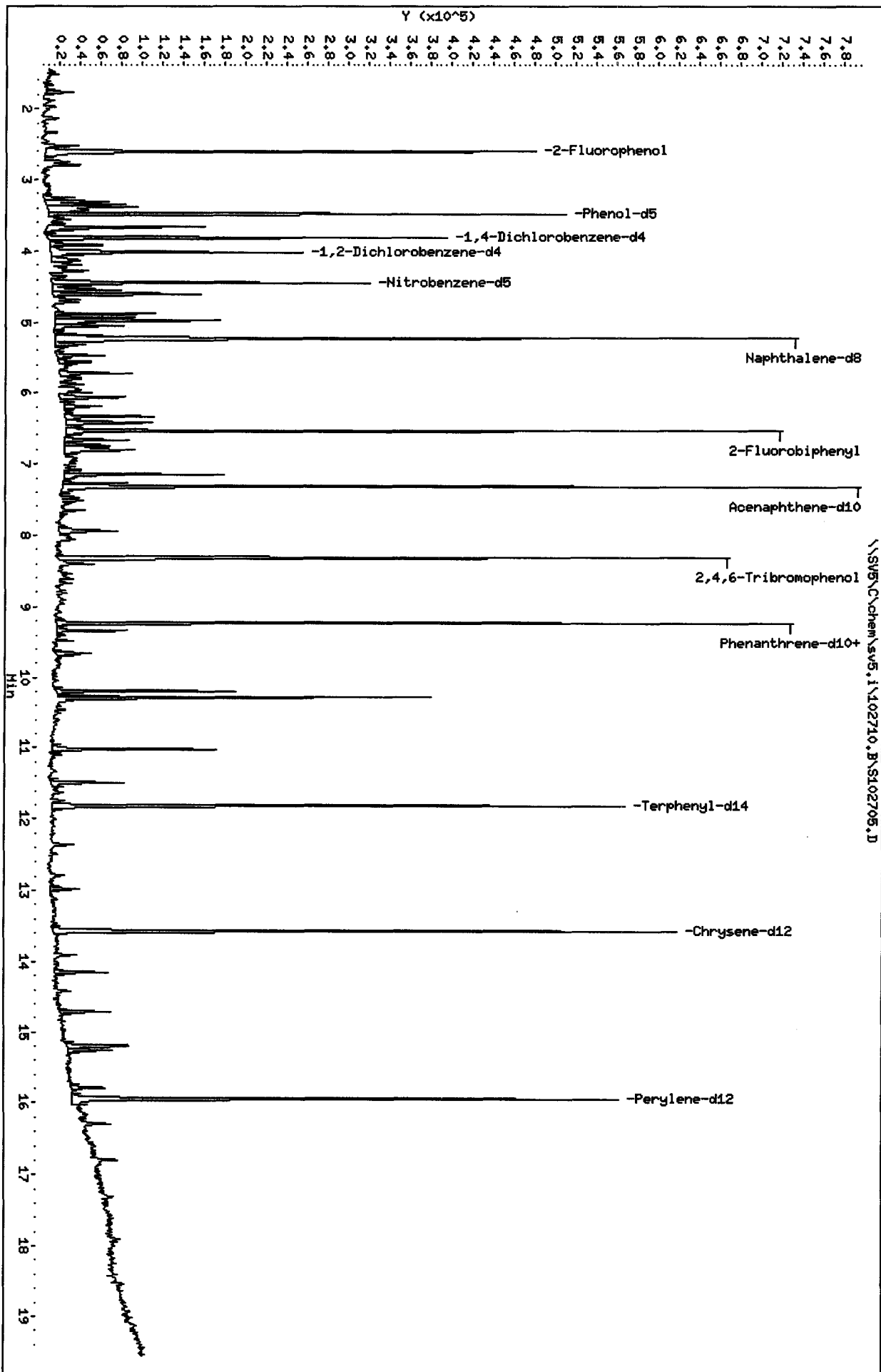
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8VH71AA G0J210484- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.35	65.35	41-105
\$ 8 Phenol-d5	100.0	76.48	76.48	43-122
\$ 10 1,2-Dichlorobenzen	50.00	22.50	45.01*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.32	68.65	46-118
\$ 12 2-Fluorobiphenyl	50.00	36.88	73.75	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.79	92.79	61-118
\$ 14 Terphenyl-d14	50.00	40.11	80.22	69-110



Date : 27-OCT-2010 15:22

Client ID: 0294378

Instrument: sv5.i

Sample Info: L8VH71AA G0J210484-12;0;;;1000;;1000;5

Volume Injected (uL): 1.0

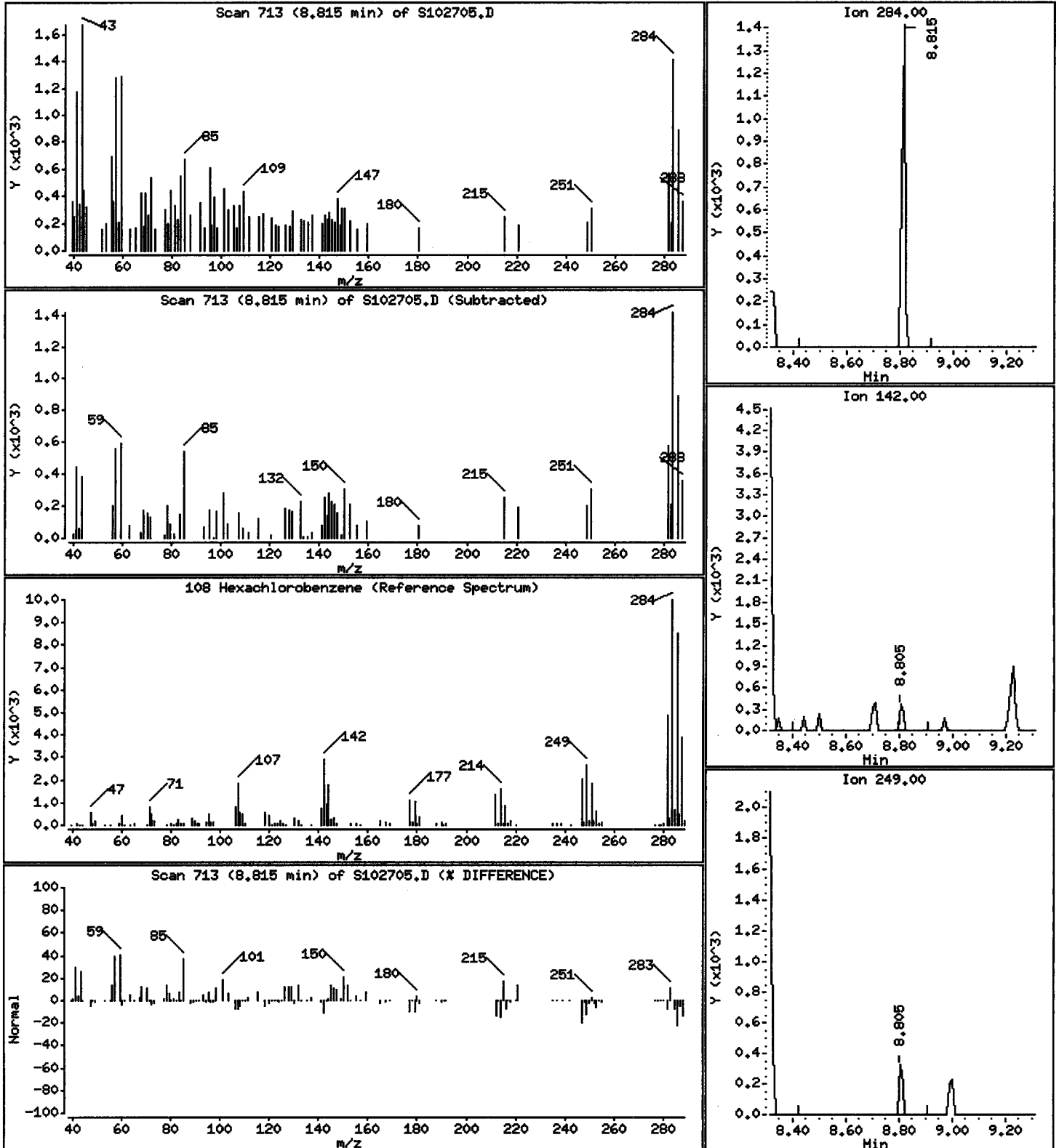
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.8807 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102706.D
 Lab Smp Id: L8VJA1AA G0J210484- Client Smp ID: 0294378
 Inj Date : 27-OCT-2010 15:47
 Operator : srs Inst ID: sv5.i
 Smp Info : L8VJA1AA G0J210484-15;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.820	3.820	(1.000)	100922	40.0000		(Q)
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	420823	40.0000		
* 3 Acenaphthene-d10	164	7.323	7.333	(1.000)	229596	40.0000		
* 4 Phenanthrene-d10	188	9.229	9.240	(1.000)	362453	40.0000		
* 5 Chrysene-d12	240	13.571	13.582	(1.000)	360480	40.0000		
* 6 Perylene-d12	264	15.945	15.955	(1.000)	359649	40.0000		
\$ 7 2-Fluorophenol	112	2.607	2.597	(0.683)	235651	66.2443	66.24	
\$ 8 Phenol-d5	99	3.478	3.478	(0.910)	337065	75.3509	75.35	
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.017	(1.052)	58380	23.4880	23.49	(qR)
\$ 11 Nitrobenzene-d5	82	4.442	4.442	(0.849)	130843	36.7092	36.71	
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	295935	40.0129	40.01	
\$ 13 2,4,6-Tribromophenol	330	8.317	8.328	(1.136)	94514	94.7338	94.73	
\$ 14 Terphenyl-d14	244	11.820	11.830	(0.871)	302688	42.6291	42.63	
108 Hexachlorobenzene	284				Compound Not Detected.			

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- q - Qualifier signal exceeded ratio warning limit.

Handwritten: UT 10/29/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102706.D
 Lab Smp Id: L8VJA1AA G0J210484-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Client Smp ID: 0294378
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	100922	-17.70
2 Naphthalene-d8	530514	265257	1061028	420823	-20.68
3 Acenaphthene-d10	282538	141269	565076	229596	-18.74
4 Phenanthrene-d10	462722	231361	925444	362453	-21.67
5 Chrysene-d12	435850	217925	871700	360480	-17.29
6 Perylene-d12	422284	211142	844568	359649	-14.83

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

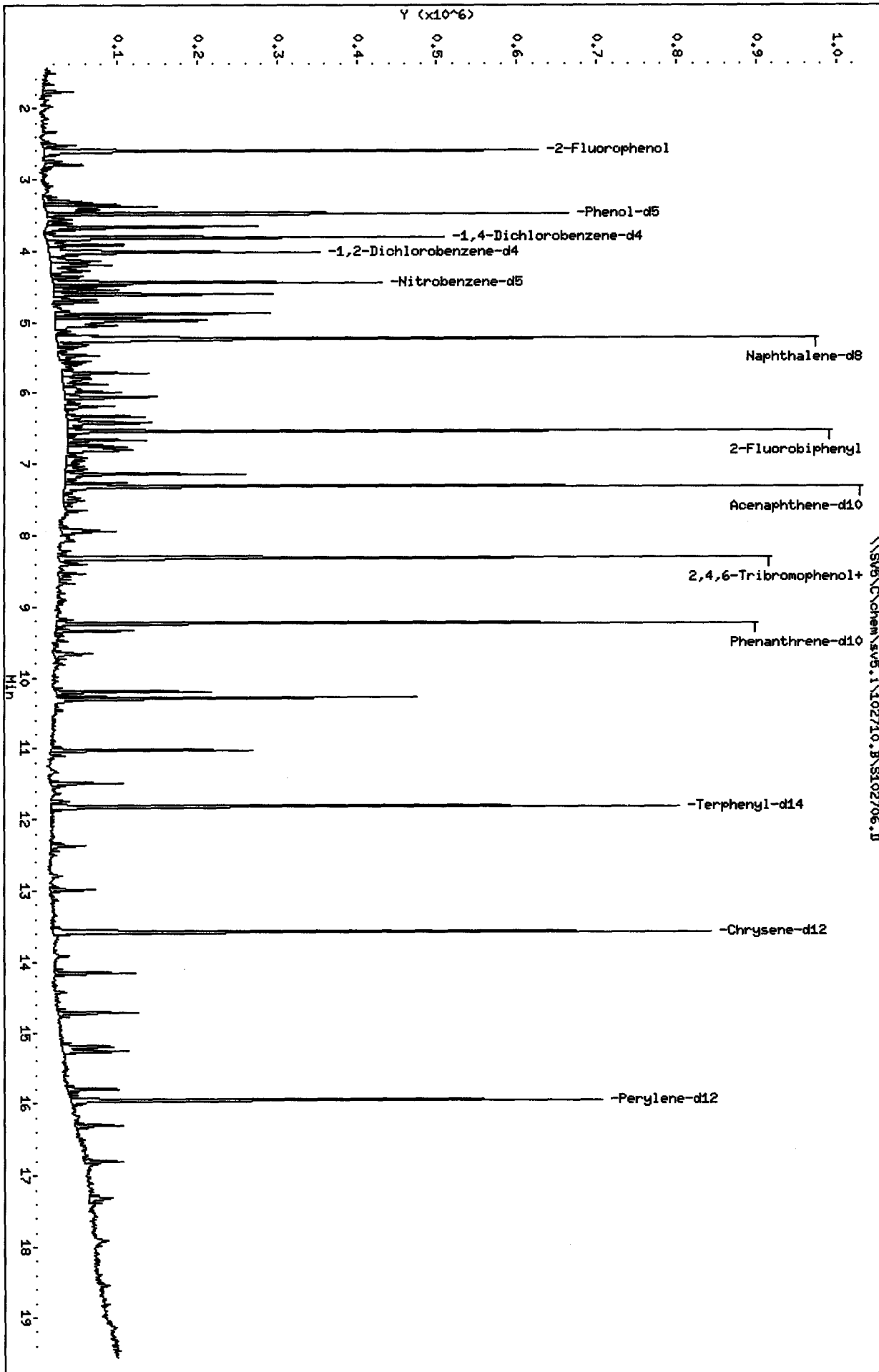
RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8VJA1AA G0J210484- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.24	66.24	41-105
\$ 8 Phenol-d5	100.0	75.35	75.35	43-122
\$ 10 1,2-Dichlorobenzen	50.00	23.49	46.98*	60-120
\$ 11 Nitrobenzene-d5	50.00	36.71	73.42	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.01	80.03	58-105
\$ 13 2,4,6-Tribromophen	100.0	94.73	94.73	61-118
\$ 14 Terphenyl-d14	50.00	42.63	85.26	69-110

Data File: \\SV5\C\chem\sv5.i\102710.B\S102706.D
Date : 27-OCT-2010 15:47
Client ID: 0294378
Sample Info: LBVJ11A G0J210484-1510;;;11000;11000;5
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i
Operator: srs
Column diameter: 2.00



Date : 27-OCT-2010 15:47

Client ID: 0294378

Instrument: sv5.i

Sample Info: LBVJA1AA G0J210484-15;0;;;1000;1000;5

Volume Injected (uL): 1.0

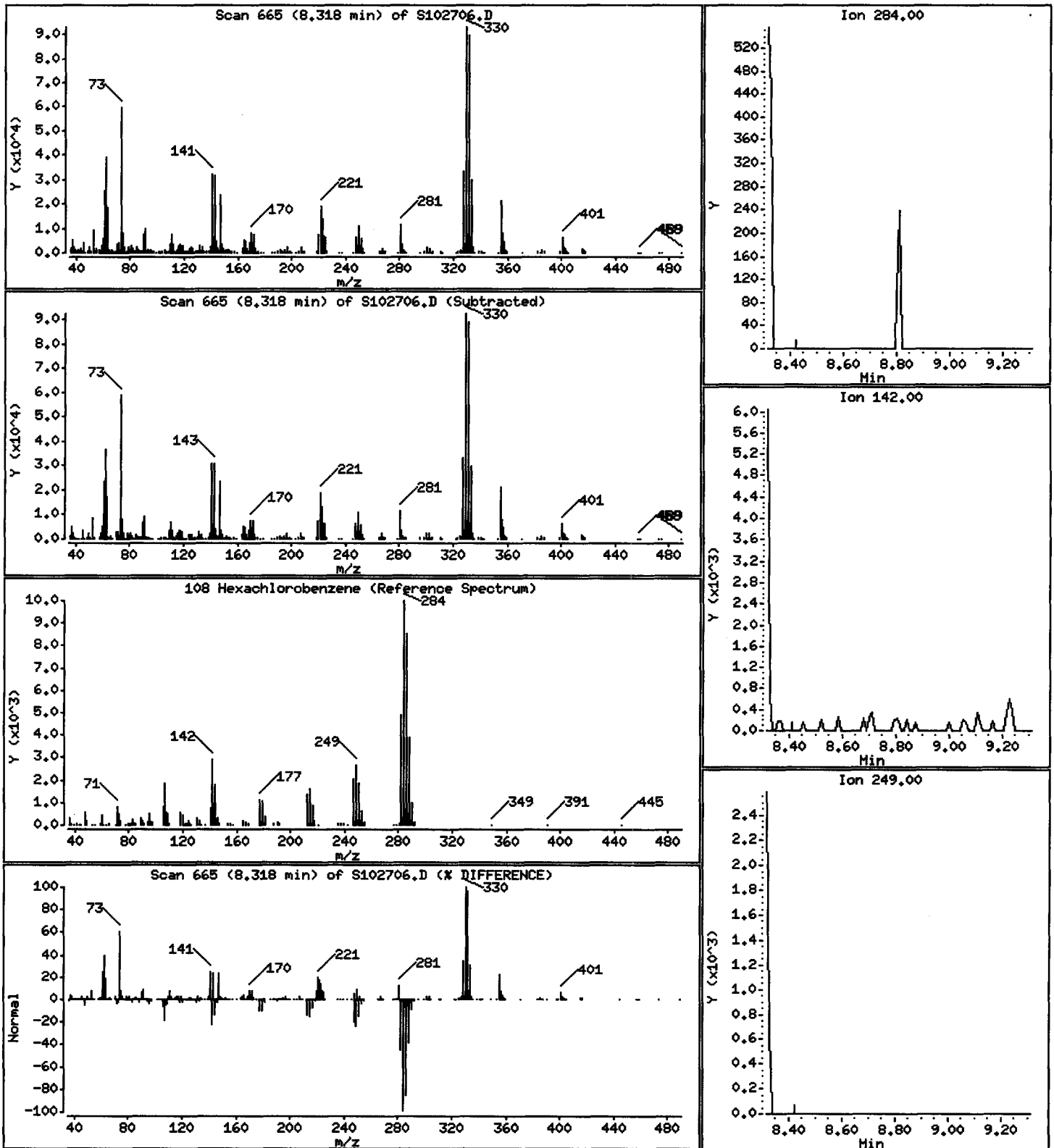
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.3133 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102710.B\S102707.D
 Lab Smp Id: L8VJD1AA G0J210484- Client Smp ID: 0294378
 Inj Date : 27-OCT-2010 16:12
 Operator : srs Inst ID: sv5.i
 Smp Info : L8VJD1AA G0J210484-16;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Meth Date : 29-Oct-2010 15:33 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.820	3.820	(1.000)	86192	40.0000	(Q)
* 2 Naphthalene-d8	136		5.229	5.229	(1.000)	362979	40.0000	
* 3 Acenaphthene-d10	164		7.322	7.333	(1.000)	198604	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.240	(1.000)	307093	40.0000	
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	305939	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	320460	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.680)	199749	65.7481	65.75
\$ 8 Phenol-d5	99		3.478	3.478	(0.910)	281318	73.6362	73.64
\$ 10 1,2-Dichlorobenzene-d4	152		4.017	4.017	(1.052)	53447	25.1782	25.18(R)
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.849)	112679	36.6509	36.65
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	246010	38.4532	38.45
\$ 13 2,4,6-Tribromophenol	330		8.317	8.328	(1.136)	82600	95.7118	95.71
\$ 14 Terphenyl-d14	244		11.820	11.830	(0.871)	259699	43.0951	43.10
108 Hexachlorobenzene	284		8.815	8.815	(0.955)	28703	17.1447	17.14

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.

Handwritten signature and date: 10/29/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102707.D
 Lab Smp Id: L8VJD1AA G0J210484-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Client Smp ID: 0294378
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	86192	-29.71
2 Naphthalene-d8	530514	265257	1061028	362979	-31.58
3 Acenaphthene-d10	282538	141269	565076	198604	-29.71
4 Phenanthrene-d10	462722	231361	925444	307093	-33.63
5 Chrysene-d12	435850	217925	871700	305939	-29.81
6 Perylene-d12	422284	211142	844568	320460	-24.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.82	3.32	4.32	3.82	-0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	-0.00
3 Acenaphthene-d10	7.33	6.83	7.83	7.32	-0.14
4 Phenanthrene-d10	9.24	8.74	9.74	9.23	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

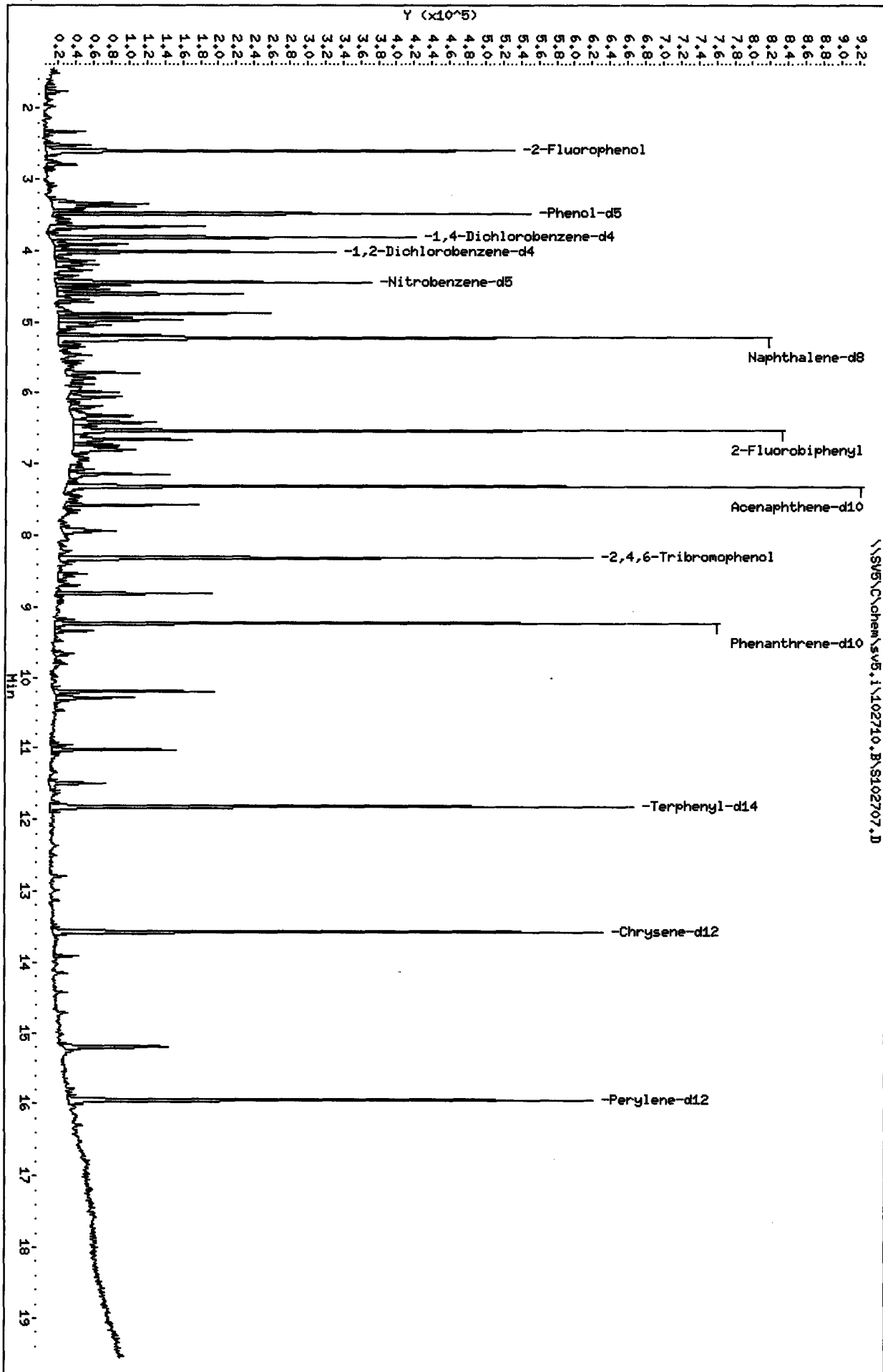
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8VJD1AA G0J210484- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102710.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.75	65.75	41-105
\$ 8 Phenol-d5	100.0	73.64	73.64	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.18	50.36*	60-120
\$ 11 Nitrobenzene-d5	50.00	36.65	73.30	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.45	76.91	58-105
\$ 13 2,4,6-Tribromophen	100.0	95.71	95.71	61-118
\$ 14 Terphenyl-d14	50.00	43.10	86.19	69-110

Data File: \\SV5\C\chem\sv5.1\102710.B\S102707.D
 Date: 27-OCT-2010 16:12
 Client ID: 0294378
 Sample Info: LBVJDLA G0J210484-16f0j;11000j;11000j5
 Volume Injected (uL): 1.0
 Column phase:

Instrument: sv5.1
 Operator: srs
 Column diameter: 2.00

\\SV5\C\chem\sv5.1\102710.B\S102707.D



Date : 27-OCT-2010 16:12

Client ID: 0294378

Instrument: sv5.i

Sample Info: L8VJDD1AA G0J210484-16;0;;;1000;;1000;5

Volume Injected (uL): 1.0

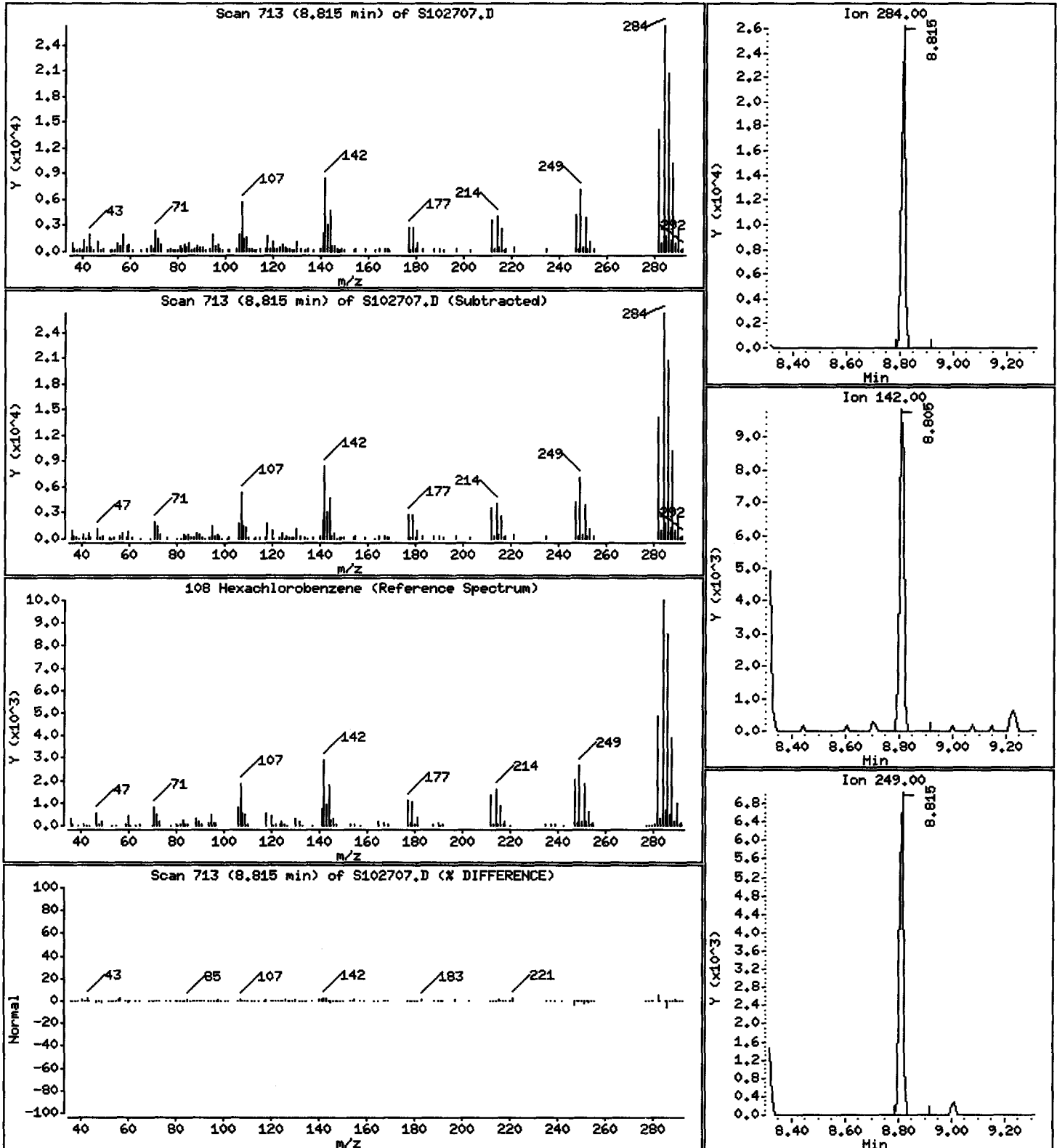
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 17.14 ug/L



Instrument: SV5 _____

ICAL Date: 10/02/10 _____

DFTPP ID: DFT1028

Initiator/Date: SRS-10/28/10 _____

Standard ID: HSL1028

Reviewer/Date: SPJ 10/28/10

NCM #: N/A

I: 8270C Criteria

	Initiated	Reviewed
Log Book page included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV compared to correct ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tune documentation is present and meets criteria.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual re-integrations are checked, initialed and hardcopies included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention time correct for Isomers and all other analytes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Samples analyzed within 12 hours of Tune time.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tailing and degradation criteria are met.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spot check manual integrations in Target. Analyte checked: <u>NDMA</u>	NA	<input checked="" type="checkbox"/>
Non-CCC ≤ 50% D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

II: 8270C SPCC Check SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

III: 8270C CCC Check CCC must be ≤ 20%D (If CCC are not targets, all analytes must be <20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Flouranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-Chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

V: DOD OSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be $\leq 20\%$ D.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RRFs for SPCCs must meet minimum response factor criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIM: All analytes must be $\leq 20\%$	<input type="checkbox"/> NA	<input checked="" type="checkbox"/> N/A
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)
 JZ = EPA TO-13A (WS-MS-0005)
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)
 QI = EPA 8270C-SIM (WS-MS-0008)
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i
 Batch ID : 102810.B
 ICAL Date: See Calib Report
 See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
28-OCT-2010	12:24	srs	HSL_050 ug/ml CS-4	QC001.D	NA	NA	NA		
28-OCT-2010	12:46	srs	DFTPP 50ug/ml	DFT1028.D	NA	NA	NA		
28-OCT-2010	13:07	srs	HSL_050 ug/ml CS-4	HSL1028.D	NA	NA	NA		
28-OCT-2010	13:32	srs	L80CV1AA G0J220000-297B	S102801.D	30 g	1 mL	1	QL	
28-OCT-2010	13:57	srs	L80CV1AC G0J220000-297C	S102802.D	30 g	1 mL	1	QL	
28-OCT-2010	14:22	srs	L8VH41AA G0J210484-10	S102803.D	1000 Sa	1 mL	1	JZ	Confirmation
28-OCT-2010	14:47	srs	L8VH71AA G0J210484-12	S102804.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	15:12	srs	L8VJA1AA G0J210484-15	S102805.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	15:37	srs	L8VJD1AA G0J210484-16	S102806.D	1000 Sa	1 mL	1	JZ	

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 28-OCT-2010 13:07
 Lab File ID: HSL1028.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
 Method: \\SV5\C\chem\sv5.i\102810.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.43534	1.43534	0.010	1.80290	50.00000	Averaged
8 Phenol-d5	1.77296	1.86781	1.86781	0.010	5.34998	50.00000	Averaged
9 2-Chlorophenol-d4	1.55698	1.60504	1.60504	0.010	3.08666	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.98513	1.01921	1.01921	0.010	3.45965	50.00000	Averaged
11 Nitrobenzene-d5	0.33879	0.34507	0.34507	0.010	1.85175	50.00000	Averaged
12 2-Fluorobiphenyl	1.28852	1.31848	1.31848	0.010	2.32482	50.00000	Averaged
13 2,4,6-Tribromophenol	0.17381	0.18659	0.18659	0.010	7.34827	50.00000	Averaged
14 Terphenyl-d14	0.78789	0.80072	0.80072	0.010	1.62803	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.92536	0.92536	0.010	0.41471	50.00000	Averaged
16 Pyridine	1.54111	1.48642	1.48642	0.010	-3.54906	50.00000	Averaged
23 Aniline	2.25673	2.34690	2.34690	0.010	3.99561	50.00000	Averaged
24 Phenol	2.03729	2.07901	2.07901	0.010	2.04793	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.42859	1.47042	1.47042	0.010	2.92778	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.58679	1.58679	0.010	1.46925	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.72368	1.72368	0.010	1.19181	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.81387	1.81387	0.010	1.83532	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.09020	1.09020	0.010	3.72879	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.69830	1.69830	0.010	3.71523	50.00000	Averaged
32 2-Methylphenol	1.43012	1.47588	1.47588	0.010	3.19960	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.21348	2.21348	0.010	-2.64648	50.00000	Averaged
34 4-Methylphenol	1.51904	1.59361	1.59361	0.010	4.90880	50.00000	Averaged
36 Hexachloroethane	0.60636	0.62205	0.62205	0.010	2.58693	50.00000	Averaged
37 N-Nitrosodipropylamine	1.01180	1.06675	1.06675	0.050	5.43094	50.00000	Averaged
42 Nitrobenzene	0.33116	0.32369	0.32369	0.010	-2.25638	50.00000	Averaged
44 Isophorone	0.63679	0.64345	0.64345	0.010	1.04555	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20461	0.20461	0.010	4.13695	20.00000	Averaged
46 2,4-Dimethylphenol	0.34911	0.35099	0.35099	0.010	0.53701	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.39303	0.39303	0.010	1.01386	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.28105	0.28105	0.010	4.05567	20.00000	Averaged
50 Benzoic Acid	0.19324	0.22016	0.22016	0.010	13.92937	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.30288	0.30288	0.010	3.56378	50.00000	Averaged
52 Naphthalene	1.10443	1.09112	1.09112	0.010	-1.20513	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.44831	0.44831	0.010	3.56594	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15136	0.15136	0.010	5.75081	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.33260	0.33260	0.010	10.26653	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.74976	0.74976	0.010	8.07027	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.30012	0.30012	0.050	0.55601	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.34237	0.34237	0.010	7.28014	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.34380	0.36150	0.36150	0.010	5.14711	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.10497	1.10497	0.010	-1.84216	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.34878	0.34878	0.010	2.22550	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.31858	1.31858	0.010	1.73698	50.00000	Averaged

5/10/2010

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 28-OCT-2010 13:07
 Lab File ID: HSL1028.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
 Method: \\SV5\C\chem\sv5.i\102810.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.97958	1.97958	0.010	0.98005	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.31677	0.31677	0.010	4.90156	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.39967	0.39967	0.010	6.03911	50.00000	Averaged
81 Acenaphthene	1.24787	1.21859	1.21859	0.010	-2.34582	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	54.26555	0.19427	0.050	8.53110	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.61068	1.61068	0.010	-2.74354	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.16939	0.16939	0.050	8.34651	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.42105	0.42105	0.010	6.23560	50.00000	Averaged
91 Fluorene	1.37139	1.35773	1.35773	0.010	-0.99621	50.00000	Averaged
92 Diethylphthalate	1.32699	1.31706	1.31706	0.010	-0.74842	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.57085	0.57085	0.010	0.11622	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.38700	0.38700	0.010	3.58263	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	52.46632	0.14998	0.010	4.93265	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.61344	0.61344	0.010	1.18013	20.00000	Averaged
100 Azobenzene	0.78660	0.77439	0.77439	0.010	-1.55266	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.20213	0.20213	0.010	3.51361	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22034	0.22034	0.010	1.04245	50.00000	Averaged
110 Pentachlorophenol	50.00000	53.31405	0.13949	0.010	6.62811	0.000e+000	Linear
114 Phenanthrene	1.26074	1.22422	1.22422	0.010	-2.89677	50.00000	Averaged
115 Anthracene	1.25955	1.26415	1.26415	0.010	0.36589	50.00000	Averaged
118 Carbazole	1.15061	1.13334	1.13334	0.010	-1.50059	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.41646	1.41646	0.010	2.31414	50.00000	Averaged
126 Fluoranthene	1.12969	1.13497	1.13497	0.010	0.46789	20.00000	Averaged
127 Benzidine	0.81067	0.87561	0.87561	0.010	8.01052	50.00000	Averaged
128 Pyrene	1.25025	1.25937	1.25937	0.010	0.72892	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.73816	0.73816	0.010	3.14728	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.64515	0.64515	0.010	2.95564	50.00000	Averaged
138 Benzo (a) Anthracene	1.06548	1.07080	1.07080	0.010	0.49974	50.00000	Averaged
139 Chrysene	1.08994	1.07532	1.07532	0.010	-1.34121	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.41266	0.41266	0.010	2.67882	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316	0.87188	0.87188	0.010	1.00988	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.48217	1.48217	0.010	7.42330	20.00000	Averaged
144 Benzo (b) fluoranthene	0.90549	0.95296	0.95296	0.010	5.24262	50.00000	Averaged
145 Benzo (k) fluoranthene	1.16236	1.08325	1.08325	0.010	-6.80555	50.00000	Averaged
147 Benzo (e) pyrene	0.94425	0.95705	0.95705	0.010	1.35568	50.00000	Averaged
148 Benzo (a) pyrene	1.02655	1.01102	1.01102	0.010	-1.51250	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.83029	0.88381	0.88381	0.010	6.44622	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.92758	0.99034	0.99034	0.010	6.76657	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00427	1.01379	1.01379	0.010	0.94753	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.03622	2.03622	0.010	-1.52978	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\HSL1028.D
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 28-OCT-2010 13:07
 Operator : srs Inst ID: sv5.i
 Smp Info : HSL 050 ug/ml CS-4;2;;4;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102810.B\8270f.m
 Meth Date : 28-Oct-2010 13:28 semivoa Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 97 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152			3.809	3.809	(1.000)	148330	40.0000	
* 2 Naphthalene-d8	136			5.229	5.229	(1.000)	659997	40.0000	
* 3 Acenaphthene-d10	164			7.322	7.322	(1.000)	375074	40.0000	
* 4 Phenanthrene-d10	188			9.229	9.229	(1.000)	593115	40.0000	
* 5 Chrysene-d12	240			13.571	13.571	(1.000)	579326	40.0000	
* 6 Perylene-d12	264			15.944	15.944	(1.000)	587561	40.0000	
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	266130	50.0000	50.90
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	346316	50.0000	52.67
\$ 9 2-Chlorophenol-d4	132			3.612	3.612	(0.948)	297595	50.0000	51.54
\$ 10 1,2-Dichlorobenzene-d4	152			4.017	4.017	(1.054)	188974	50.0000	51.73
\$ 11 Nitrobenzene-d5	82			4.441	4.441	(0.849)	284680	50.0000	50.92
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.892)	618159	50.0000	51.16
\$ 13 2,4,6-Tribromophenol	330			8.317	8.317	(1.136)	87480	50.0000	53.67
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.871)	579848	50.0000	50.81
15 N-Nitrosodimethylamine	74			1.571	1.571	(0.412)	171574	50.0000	50.21 (M)
16 Pyridine	79			1.592	1.592	(0.418)	275600	50.0000	48.22
23 Aniline	93			3.509	3.509	(0.921)	435144	50.0000	52.00
24 Phenol	94			3.488	3.488	(0.916)	385474	50.0000	51.02
26 Bis(2-chloroethyl) ether	93			3.571	3.571	(0.937)	272634	50.0000	51.46
27 2-Chlorophenol	128			3.623	3.623	(0.951)	294210	50.0000	50.73
28 1,3-Dichlorobenzene	146			3.778	3.778	(0.992)	319591	50.0000	50.60
29 1,4-Dichlorobenzene	146			3.830	3.830	(1.005)	336314	50.0000	50.92
30 Benzyl Alcohol	108			3.975	3.975	(1.044)	202137	50.0000	51.86
31 1,2-Dichlorobenzene	146			4.027	4.027	(1.057)	314886	50.0000	51.86
32 2-Methylphenol	108			4.120	4.120	(1.082)	273647	50.0000	51.60
33 2,2'-oxybis(1-Chloropropane)	45			4.151	4.151	(1.090)	410407	50.0000	48.68
34 4-Methylphenol	108			4.286	4.286	(1.125)	295475	50.0000	52.45
36 Hexachloroethane	117			4.359	4.359	(1.144)	115336	50.0000	51.29
37 N-Nitrosodinpropylamine	70			4.307	4.307	(1.131)	197789	50.0000	52.72
42 Nitrobenzene	77			4.462	4.462	(0.853)	267044	50.0000	48.87
44 Isophorone	82			4.721	4.721	(0.903)	530841	50.0000	50.52
45 2-Nitrophenol	139			4.815	4.815	(0.921)	168799	50.0000	52.07
46 2,4-Dimethylphenol	107			4.877	4.877	(0.933)	289565	50.0000	50.27

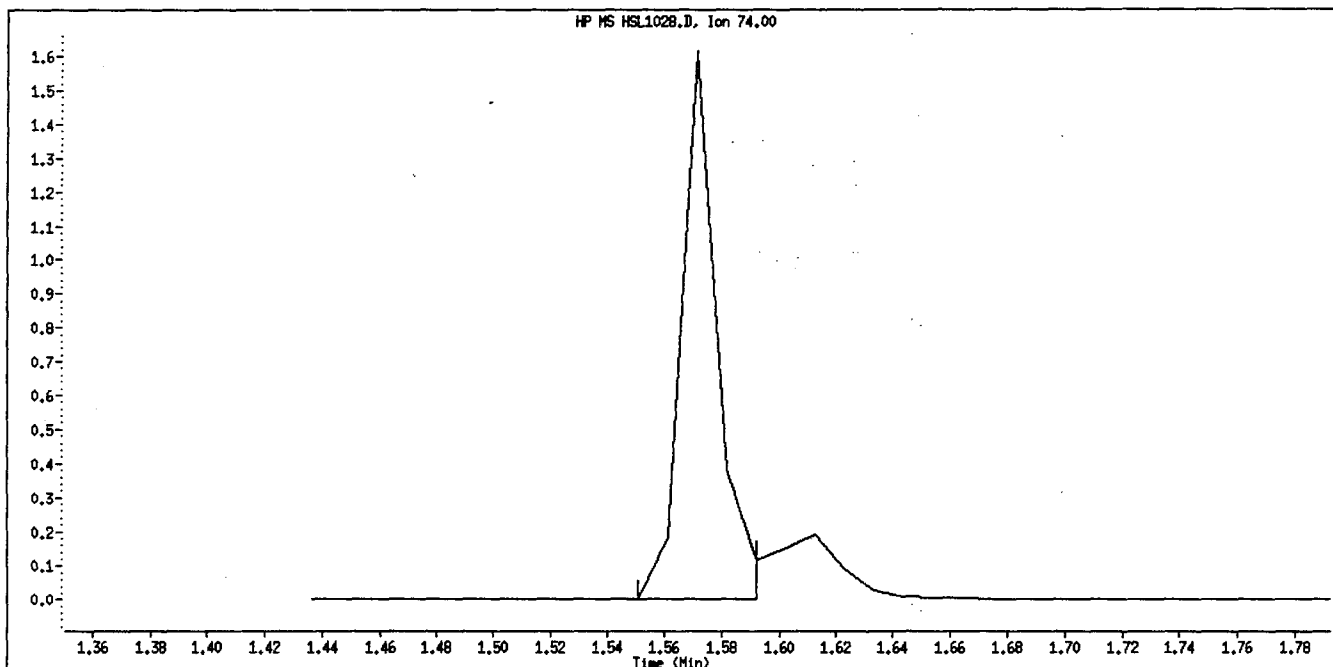
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy) methane	93	4.991	4.991	(0.954)	324247	50.0000	50.51
49 2,4-Dichlorophenol	162	5.084	5.084	(0.972)	231869	50.0000	52.03
50 Benzoic Acid	122	5.001	5.001	(0.956)	181630	50.0000	56.96
51 1,2,4-Trichlorobenzene	180	5.188	5.188	(0.992)	249873	50.0000	51.78
52 Naphthalene	128	5.250	5.250	(1.004)	900167	50.0000	49.40
54 4-Chloroaniline	127	5.343	5.343	(1.022)	369855	50.0000	51.78
57 Hexachlorobutadiene	225	5.467	5.467	(1.046)	124869	50.0000	52.88
60 4-Chloro-3-Methylphenol	107	5.934	5.934	(1.135)	274396	50.0000	55.13
63 2-Methylnaphthalene	142	6.058	6.058	(1.159)	618553	50.0000	54.04
66 Hexachlorocyclopentadiene	237	6.338	6.338	(0.866)	140707	50.0000	50.28
69 2,4,6-Trichlorophenol	196	6.442	6.442	(0.880)	160516	50.0000	53.64
70 2,4,5-Trichlorophenol	196	6.483	6.483	(0.885)	169485	50.0000	52.57
71 2-Chloronaphthalene	162	6.628	6.628	(0.905)	518058	50.0000	49.08
73 2-Nitroaniline	65	6.804	6.804	(0.929)	163522	50.0000	51.11
76 Dimethylphthalate	163	7.084	7.084	(0.967)	618204	50.0000	50.87
77 Acenaphthylene	152	7.136	7.136	(0.975)	928111	50.0000	50.49
79 2,6-Dinitrotoluene	165	7.157	7.157	(0.977)	148514	50.0000	52.45
80 3-Nitroaniline	138	7.312	7.312	(0.999)	187381	50.0000	53.02
81 Acenaphthene	153	7.354	7.354	(1.004)	571329	50.0000	48.83
82 2,4-Dinitrophenol	184	7.426	7.426	(1.014)	91080	50.0000	54.26
83 Dibenzofuran	168	7.550	7.550	(1.031)	755157	50.0000	48.63
84 4-Nitrophenol	109	7.540	7.540	(1.030)	79417	50.0000	54.17
86 2,4-Dinitrotoluene	165	7.623	7.623	(1.041)	197404	50.0000	53.12
91 Fluorene	166	7.975	7.975	(1.089)	636562	50.0000	49.50
92 Diethylphthalate	149	7.955	7.955	(1.086)	617494	50.0000	49.62
93 4-Chlorophenyl-phenylether	204	7.996	7.996	(1.092)	267640	50.0000	50.06
94 4-Nitroaniline	138	8.058	8.058	(1.100)	181441	50.0000	51.79
97 4,6-Dinitro-2-methylphenol	198	8.120	8.120	(0.880)	111196	50.0000	52.47
98 N-Nitrosodiphenylamine	169	8.162	8.162	(0.884)	533025	58.6000	59.29
100 Azobenzene	77	8.193	8.193	(0.888)	574127	50.0000	49.22
101 4-Bromophenyl-phenylether	248	8.628	8.628	(0.935)	149856	50.0000	51.76
108 Hexachlorobenzene	284	8.815	8.815	(0.955)	163358	50.0000	50.52
110 Pentachlorophenol	266	9.074	9.074	(0.983)	103419	50.0000	53.31
114 Phenanthrene	178	9.260	9.260	(1.003)	907631	50.0000	48.55
115 Anthracene	178	9.322	9.322	(1.010)	937236	50.0000	50.18
118 Carbazole	167	9.582	9.582	(1.038)	840253	50.0000	49.25
120 Di-n-Butylphthalate	149	10.286	10.286	(1.115)	1050151	50.0000	51.16
126 Fluoranthene	202	11.105	11.105	(1.203)	841463	50.0000	50.23
127 Benzidine	184	11.385	11.385	(0.839)	634081	50.0000	54.00
128 Pyrene	202	11.457	11.457	(0.844)	911981	50.0000	50.36
134 3,3'-dimethylbenzidine	212	12.670	12.670	(0.934)	534545	50.0000	51.57
136 Butylbenzylphthalate	149	12.794	12.794	(0.943)	467193	50.0000	51.48
138 Benzo (a) Anthracene	228	13.551	13.551	(0.998)	775429	50.0000	50.25
139 Chrysene	228	13.613	13.613	(1.003)	778700	50.0000	49.33
140 3,3'-Dichlorobenzidine	252	13.592	13.592	(1.002)	298829	50.0000	51.34
141 bis (2-ethylhexyl) Phthalate	149	13.913	13.913	(1.025)	631377	50.0000	50.50
142 Di-n-octylphthalate	149	14.970	14.970	(1.103)	1073326	50.0000	53.71
144 Benzo (b) fluoranthene	252	15.364	15.364	(0.964)	699904	50.0000	52.62
145 Benzo (k) fluoranthene	252	15.406	15.406	(0.966)	795597	50.0000	46.60
147 Benzo (e) pyrene	252	15.789	15.789	(0.990)	702905	50.0000	50.68
148 Benzo (a) pyrene	252	15.862	15.862	(0.995)	742547	50.0000	49.24
151 Indeno (1,2,3-cd) pyrene	276	17.530	17.530	(1.099)	649116	50.0000	53.22
152 Dibenzo (a,h) anthracene	278	17.582	17.582	(1.103)	727357	50.0000	53.38
153 Benzo (g,h,i) perylene	276	17.945	17.945	(1.125)	744577	50.0000	50.47

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1495501	50.0000	49.24 (A)

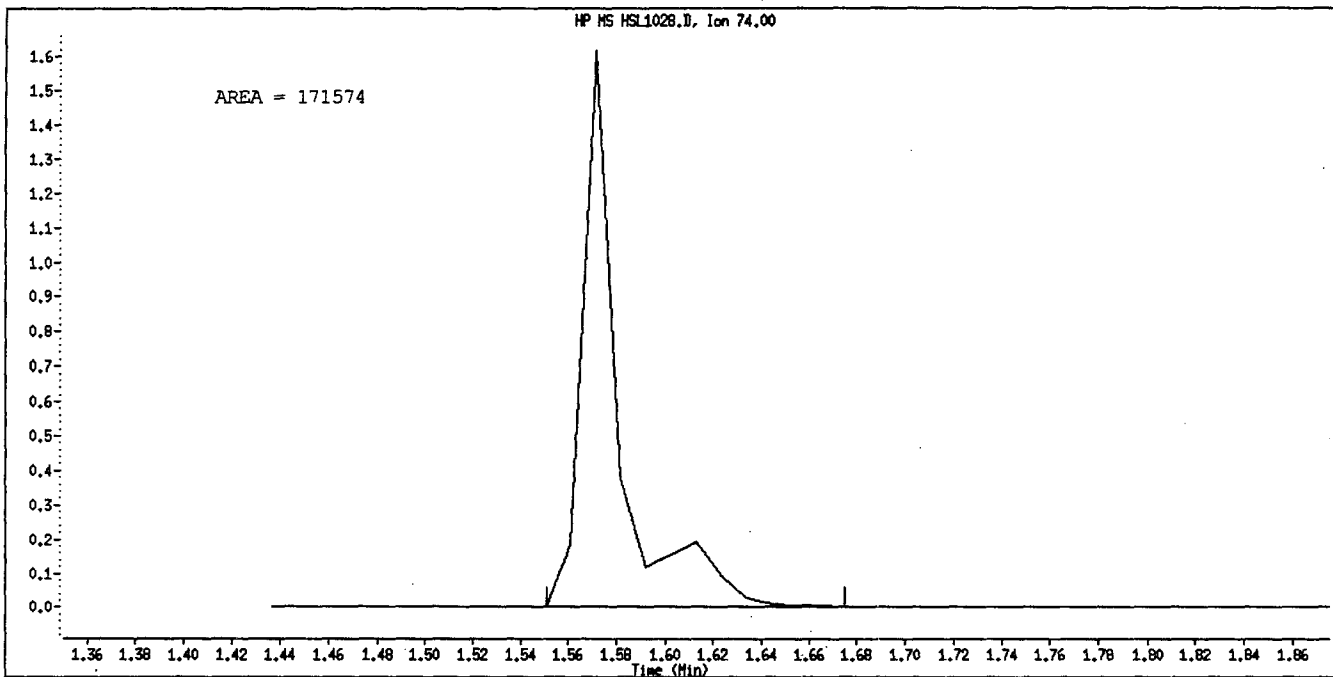
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: HSL1028.D
Inj. Date and Time: 28-OCT-2010 13:07
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 10/28/2010



Original Integration



Manual Integration

Manually Integrated By: ~~scm/voa~~ *AS 10/28/10*
Manual Integration Reason: Poor Chromatography

AS 10/28/10

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\HSL1028.D
 Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 28-OCT-2010 13:07
 Operator : srs Inst ID: sv5.i
 Smp Info : HSL_050 ug/ml CS-4;2;;4;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102810.B\8270f.m
 Meth Date : 28-Oct-2010 13:28 semivoa Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 97 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.809	3.809	(1.000)	148330	40.0000	
* 2 Naphthalene-d8	136	5.229	5.229	(1.000)	659997	40.0000	
* 3 Acenaphthene-d10	164	7.322	7.322	(1.000)	375074	40.0000	
* 4 Phenanthrene-d10	188	9.229	9.229	(1.000)	593115	40.0000	
* 5 Chrysene-d12	240	13.571	13.571	(1.000)	579326	40.0000	
* 6 Perylene-d12	264	15.944	15.944	(1.000)	587561	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.682)	266130	50.0000	50.90
\$ 8 Phenol-d5	99	3.478	3.478	(0.913)	346316	50.0000	52.67
\$ 9 2-Chlorophenol-d4	132	3.612	3.612	(0.948)	297595	50.0000	51.54
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.017	(1.054)	188974	50.0000	51.73
\$ 11 Nitrobenzene-d5	82	4.441	4.441	(0.849)	284680	50.0000	50.92
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	618159	50.0000	51.16
\$ 13 2,4,6-Tribromophenol	330	8.317	8.317	(1.136)	87480	50.0000	53.67
\$ 14 Terphenyl-d14	244	11.820	11.820	(0.871)	579848	50.0000	50.81
15 N-Nitrosodimethylamine	74	1.571	1.571	(0.412)	138984	50.0000	40.67
16 Pyridine	79	1.592	1.592	(0.418)	275600	50.0000	48.22
23 Aniline	93	3.509	3.509	(0.921)	435144	50.0000	52.00
24 Phenol	94	3.488	3.488	(0.916)	385474	50.0000	51.02
26 Bis(2-chloroethyl) ether	93	3.571	3.571	(0.937)	272634	50.0000	51.46
27 2-Chlorophenol	128	3.623	3.623	(0.951)	294210	50.0000	50.73
28 1,3-Dichlorobenzene	146	3.778	3.778	(0.992)	319591	50.0000	50.60
29 1,4-Dichlorobenzene	146	3.830	3.830	(1.005)	336314	50.0000	50.92
30 Benzyl Alcohol	108	3.975	3.975	(1.044)	202137	50.0000	51.86
31 1,2-Dichlorobenzene	146	4.027	4.027	(1.057)	314886	50.0000	51.86
32 2-Methylphenol	108	4.120	4.120	(1.082)	273647	50.0000	51.60
33 2,2'-oxybis(1-Chloropropane)	45	4.151	4.151	(1.090)	410407	50.0000	48.68
34 4-Methylphenol	108	4.286	4.286	(1.125)	295475	50.0000	52.45
36 Hexachloroethane	117	4.359	4.359	(1.144)	115336	50.0000	51.29
37 N-Nitrosodipropylamine	70	4.307	4.307	(1.131)	197789	50.0000	52.72
42 Nitrobenzene	77	4.462	4.462	(0.853)	267044	50.0000	48.87
44 Isophorone	82	4.721	4.721	(0.903)	530841	50.0000	50.52
45 2-Nitrophenol	139	4.815	4.815	(0.921)	168799	50.0000	52.07
46 2,4-Dimethylphenol	107	4.877	4.877	(0.933)	289565	50.0000	50.27

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	4.991	4.991	(0.954)	324247	50.0000	50.51
49 2,4-Dichlorophenol	162	5.084	5.084	(0.972)	231869	50.0000	52.03
50 Benzoic Acid	122	5.001	5.001	(0.956)	181630	50.0000	56.96
51 1,2,4-Trichlorobenzene	180	5.188	5.188	(0.992)	249873	50.0000	51.78
52 Naphthalene	128	5.250	5.250	(1.004)	900167	50.0000	49.40
54 4-Chloroaniline	127	5.343	5.343	(1.022)	369855	50.0000	51.78
57 Hexachlorobutadiene	225	5.467	5.467	(1.046)	124869	50.0000	52.88
60 4-Chloro-3-Methylphenol	107	5.934	5.934	(1.135)	274396	50.0000	55.13
63 2-Methylnaphthalene	142	6.058	6.058	(1.159)	618553	50.0000	54.04
66 Hexachlorocyclopentadiene	237	6.338	6.338	(0.866)	140707	50.0000	50.28
69 2,4,6-Trichlorophenol	196	6.442	6.442	(0.880)	160516	50.0000	53.64
70 2,4,5-Trichlorophenol	196	6.483	6.483	(0.885)	169485	50.0000	52.57
71 2-Chloronaphthalene	162	6.628	6.628	(0.905)	518058	50.0000	49.08
73 2-Nitroaniline	65	6.804	6.804	(0.929)	163522	50.0000	51.11
76 Dimethylphthalate	163	7.084	7.084	(0.967)	618204	50.0000	50.87
77 Acenaphthylene	152	7.136	7.136	(0.975)	928111	50.0000	50.49
79 2,6-Dinitrotoluene	165	7.157	7.157	(0.977)	148514	50.0000	52.45
80 3-Nitroaniline	138	7.312	7.312	(0.999)	187381	50.0000	53.02
81 Acenaphthene	153	7.354	7.354	(1.004)	571329	50.0000	48.83
82 2,4-Dinitrophenol	184	7.426	7.426	(1.014)	91080	50.0000	54.26
83 Dibenzofuran	168	7.550	7.550	(1.031)	755157	50.0000	48.63
84 4-Nitrophenol	109	7.540	7.540	(1.030)	79417	50.0000	54.17
86 2,4-Dinitrotoluene	165	7.623	7.623	(1.041)	197404	50.0000	53.12
91 Fluorene	166	7.975	7.975	(1.089)	636562	50.0000	49.50
92 Diethylphthalate	149	7.955	7.955	(1.086)	617494	50.0000	49.62
93 4-Chlorophenyl-phenylether	204	7.996	7.996	(1.092)	267640	50.0000	50.06
94 4-Nitroaniline	138	8.058	8.058	(1.100)	181441	50.0000	51.79
97 4,6-Dinitro-2-methylphenol	198	8.120	8.120	(0.880)	111196	50.0000	52.47
98 N-Nitrosodiphenylamine	169	8.162	8.162	(0.884)	533025	58.6000	59.29
100 Azobenzene	77	8.193	8.193	(0.888)	574127	50.0000	49.22
101 4-Bromophenyl-phenylether	248	8.628	8.628	(0.935)	149856	50.0000	51.76
108 Hexachlorobenzene	284	8.815	8.815	(0.955)	163358	50.0000	50.52
110 Pentachlorophenol	266	9.074	9.074	(0.983)	103419	50.0000	53.31
114 Phenanthrene	178	9.260	9.260	(1.003)	907631	50.0000	48.55
115 Anthracene	178	9.322	9.322	(1.010)	937236	50.0000	50.18
118 Carbazole	167	9.582	9.582	(1.038)	840253	50.0000	49.25
120 Di-n-Butylphthalate	149	10.286	10.286	(1.115)	1050151	50.0000	51.16
126 Fluoranthene	202	11.105	11.105	(1.203)	841463	50.0000	50.23
127 Benzidine	184	11.385	11.385	(0.839)	634081	50.0000	54.00
128 Pyrene	202	11.457	11.457	(0.844)	911981	50.0000	50.36
134 3,3'-dimethylbenzidine	212	12.670	12.670	(0.934)	534545	50.0000	51.57
136 Butylbenzylphthalate	149	12.794	12.794	(0.943)	467193	50.0000	51.48
138 Benzo (a) Anthracene	228	13.551	13.551	(0.998)	775429	50.0000	50.25
139 Chrysene	228	13.613	13.613	(1.003)	778700	50.0000	49.33
140 3,3'-Dichlorobenzidine	252	13.592	13.592	(1.002)	298829	50.0000	51.34
141 bis(2-ethylhexyl) Phthalate	149	13.913	13.913	(1.025)	631377	50.0000	50.50
142 Di-n-octylphthalate	149	14.970	14.970	(1.103)	1073326	50.0000	53.71
144 Benzo (b) fluoranthene	252	15.364	15.364	(0.964)	699904	50.0000	52.62
145 Benzo (k) fluoranthene	252	15.406	15.406	(0.966)	795597	50.0000	46.60
147 Benzo (e) pyrene	252	15.789	15.789	(0.990)	702905	50.0000	50.68
148 Benzo (a) pyrene	252	15.862	15.862	(0.995)	742547	50.0000	49.24
151 Indeno (1,2,3-cd) pyrene	276	17.530	17.530	(1.099)	649116	50.0000	53.22
152 Dibenzo (a,h) anthracene	278	17.582	17.582	(1.103)	727357	50.0000	53.38
153 Benzo (g,h,i) perylene	276	17.945	17.945	(1.125)	744577	50.0000	50.47

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1495501	50.0000	49.24 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1028.D
 Lab Smp Id: HSL 050 ug/ml CS-4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 27-OCT-2010
 Calibration Time: 12:06
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	148330	20.96
2 Naphthalene-d8	530514	265257	1061028	659997	24.41
3 Acenaphthene-d10	282538	141269	565076	375074	32.75
4 Phenanthrene-d10	462722	231361	925444	593115	28.18
5 Chrysene-d12	435850	217925	871700	579326	32.92
6 Perylene-d12	422284	211142	844568	587561	39.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.81	3.31	4.31	3.81	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.32	6.82	7.82	7.32	0.00
4 Phenanthrene-d10	9.23	8.73	9.73	9.23	0.00
5 Chrysene-d12	13.57	13.07	14.07	13.57	0.00
6 Perylene-d12	15.94	15.44	16.44	15.94	0.00

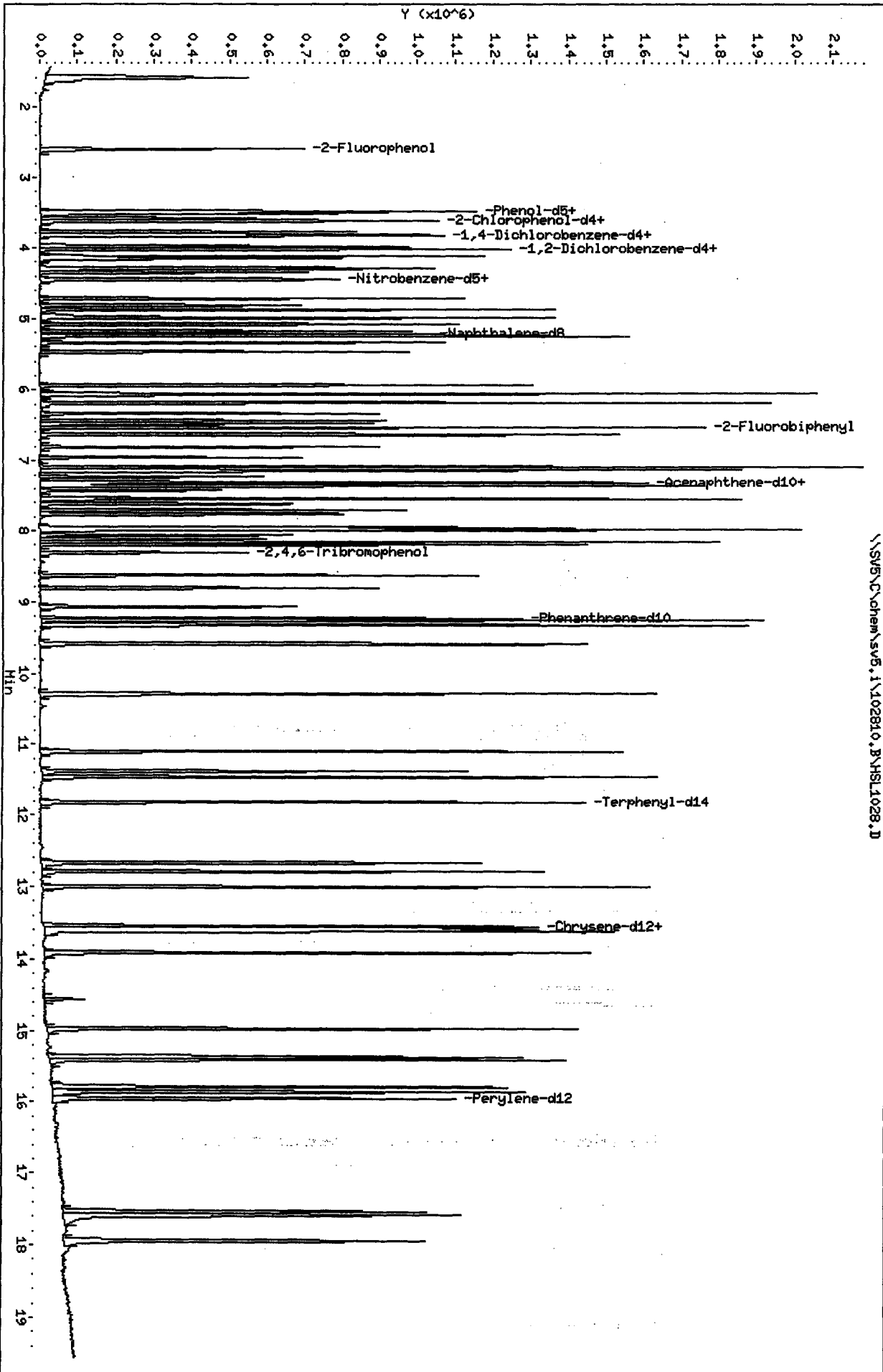
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.1\102810.B\HSL1028.D
Date: 28-OCT-2010 13:07
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml CS-412141114

Column phase:

Instrument: sv5.i
Operator: srs
Column diameter: 2.00

\\SV5\C\chem\sv5.1\102810.B\HSL1028.D



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.5333088	5.000	PASS
Benzidine	0.4669723	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	329093	14.4	20.5	PASS

Sample //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D

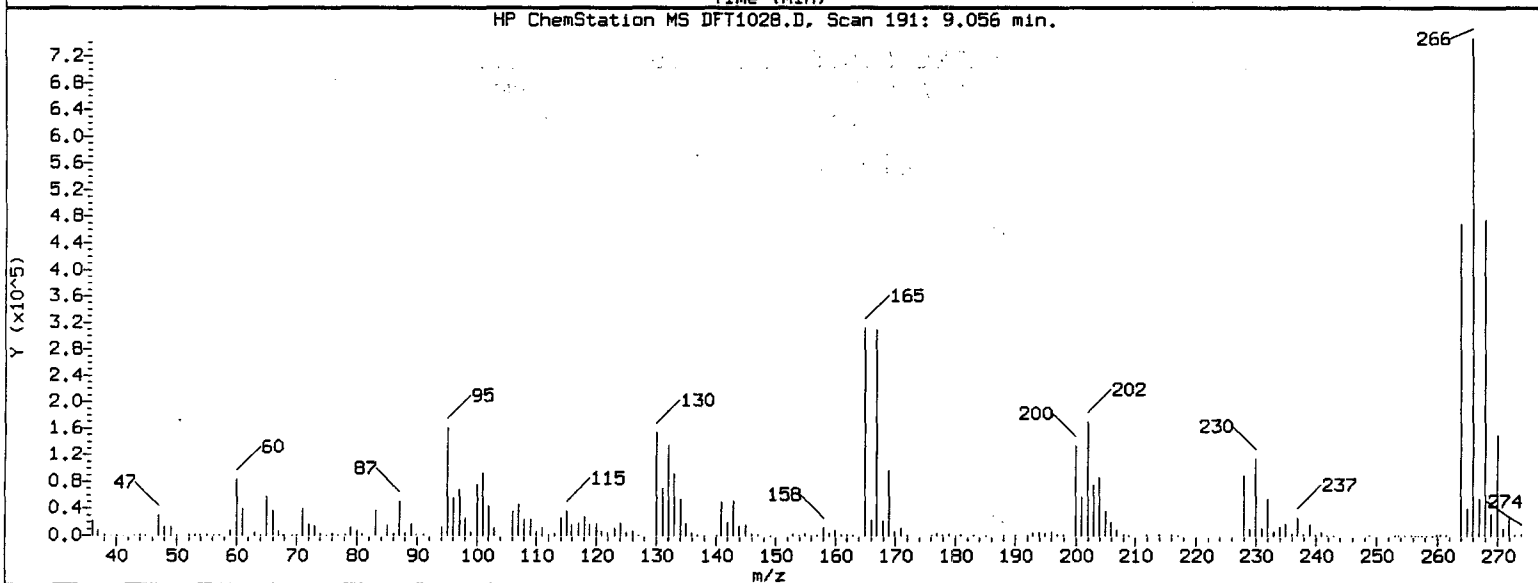
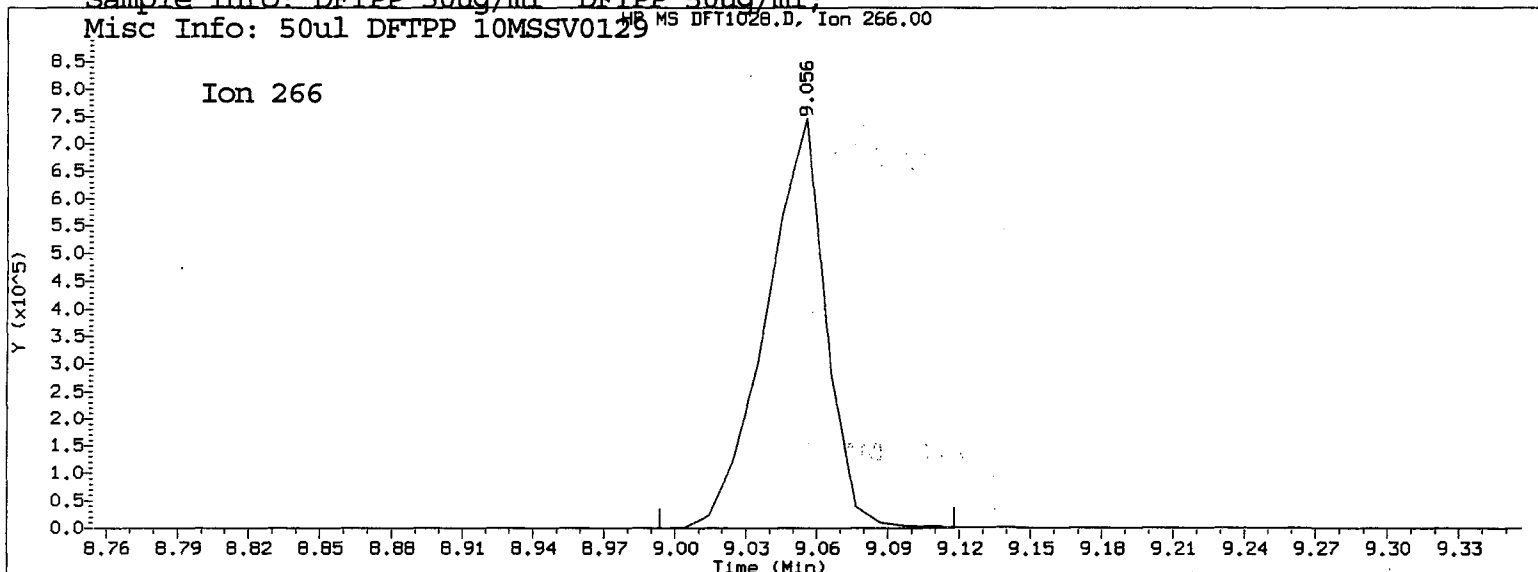
 *** PASSED ***

*SK
10/28/10*

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/28/2010 13:26

Datafile Analyzed: //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D
Method Used: \\SV5\C\chem\sv5.i\102810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 28-OCT-2010 12:46 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol

=====
Exp. RT = 9.056
Found RT = 9.056

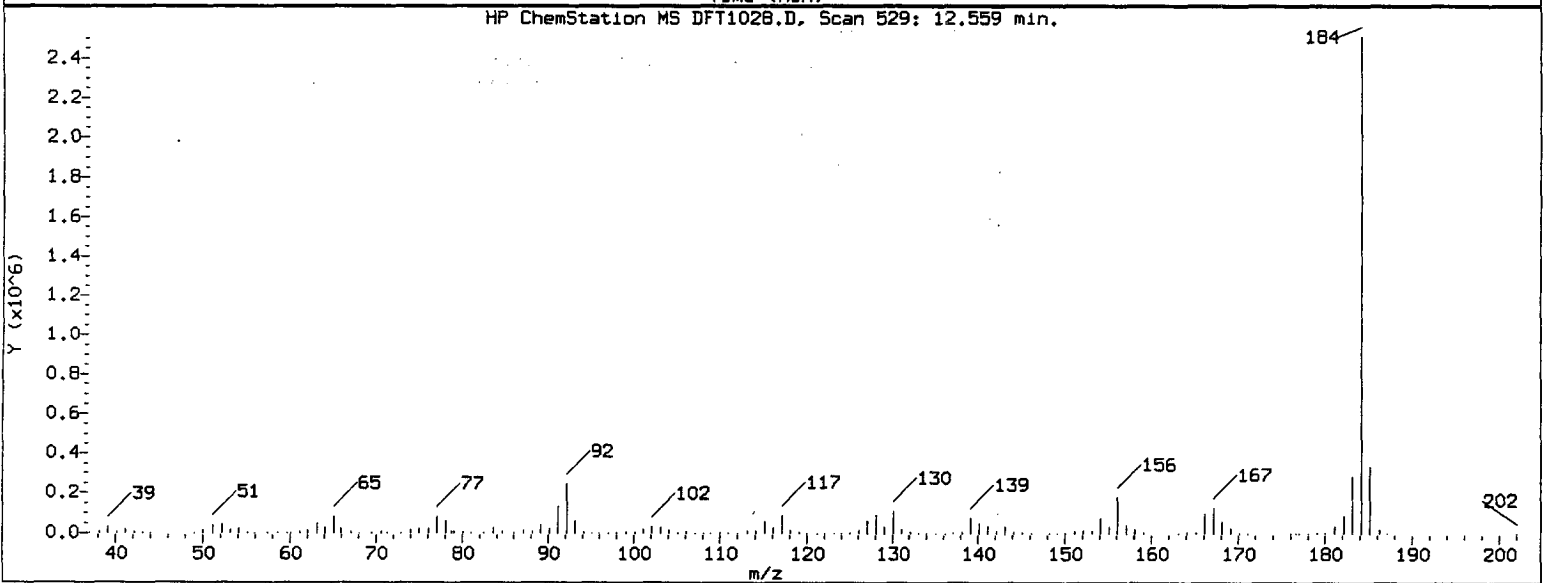
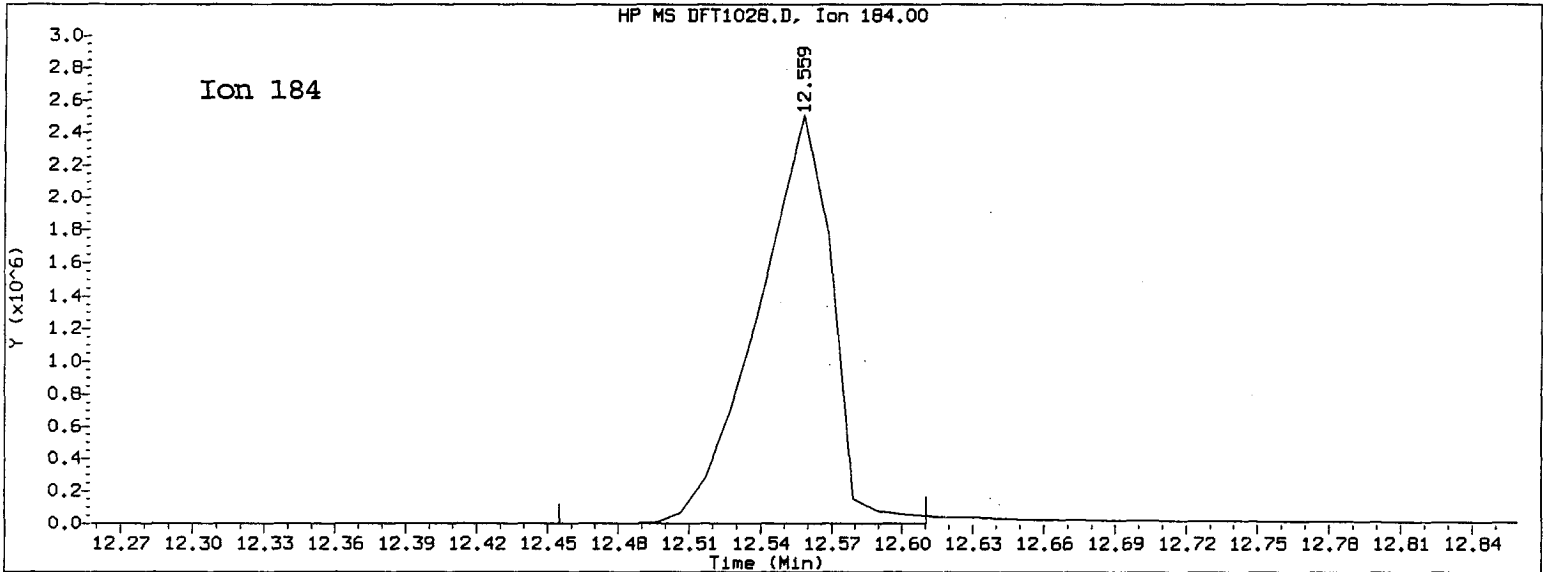
Time1 = 9.019789 Time2 = 9.0558 Time3 = 9.075005
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.533 Maximum Allowed = 5.0

Report Date: 10/28/2010 13:26

Datafile Analyzed: //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D
Method Used: \\SV5\C\chem\sv5.i\102810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 28-OCT-2010 12:46 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.558
Found RT = 12.559

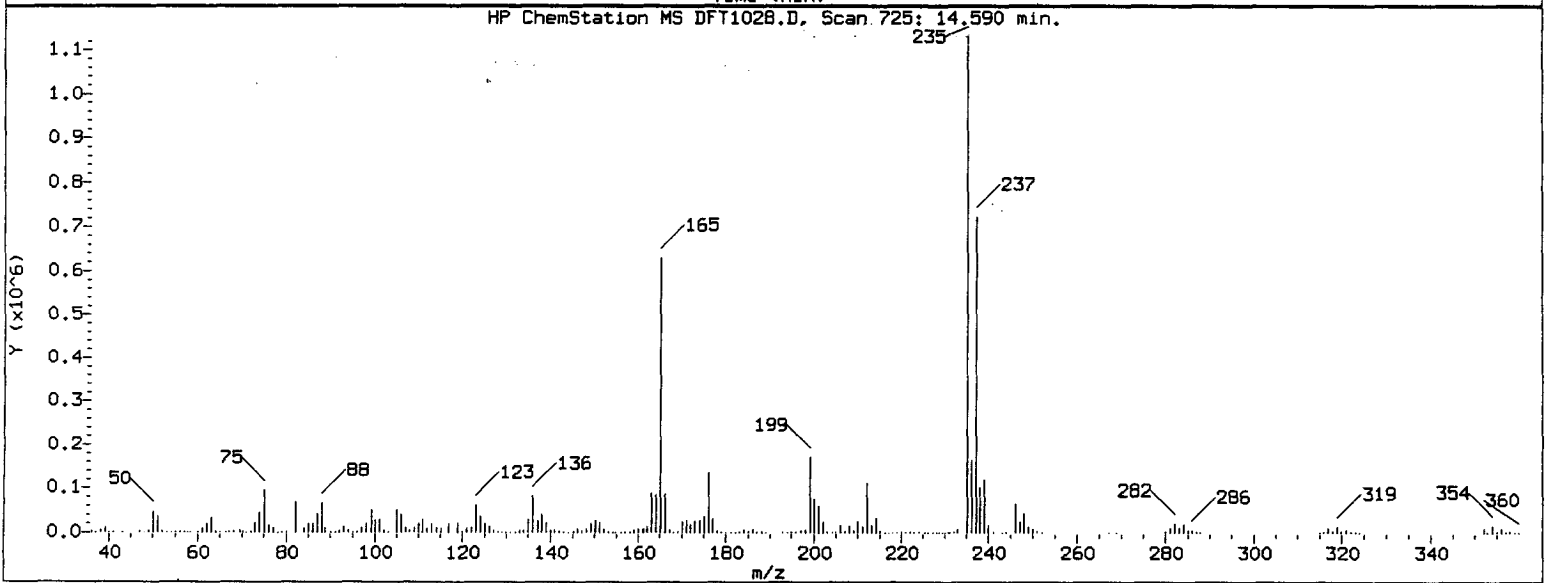
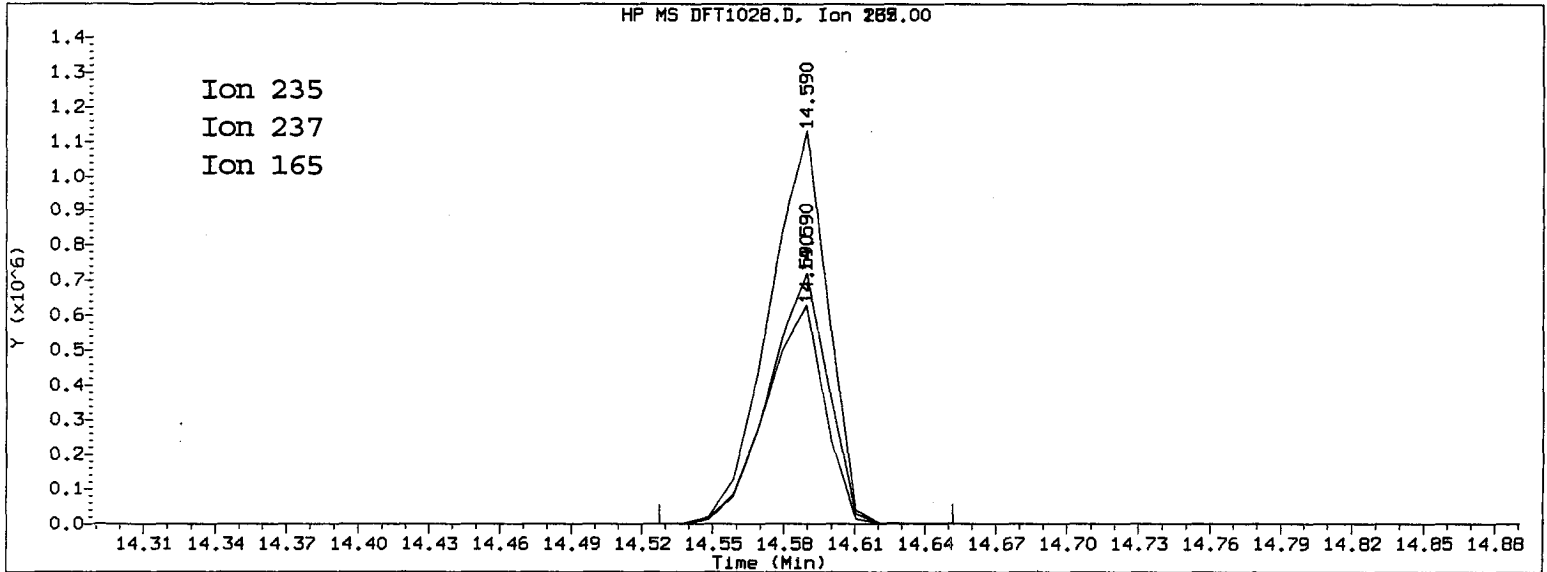
Time1 = 12.51545 Time2 = 12.5585 Time3 = 12.5786
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.467 Maximum Allowed = 3.0

Report Date: 10/28/2010 13:26

Datafile Analyzed: //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D
Method Used: \\SV5\C\chem\sv5.i\102810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 28-OCT-2010 12:46 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

=====

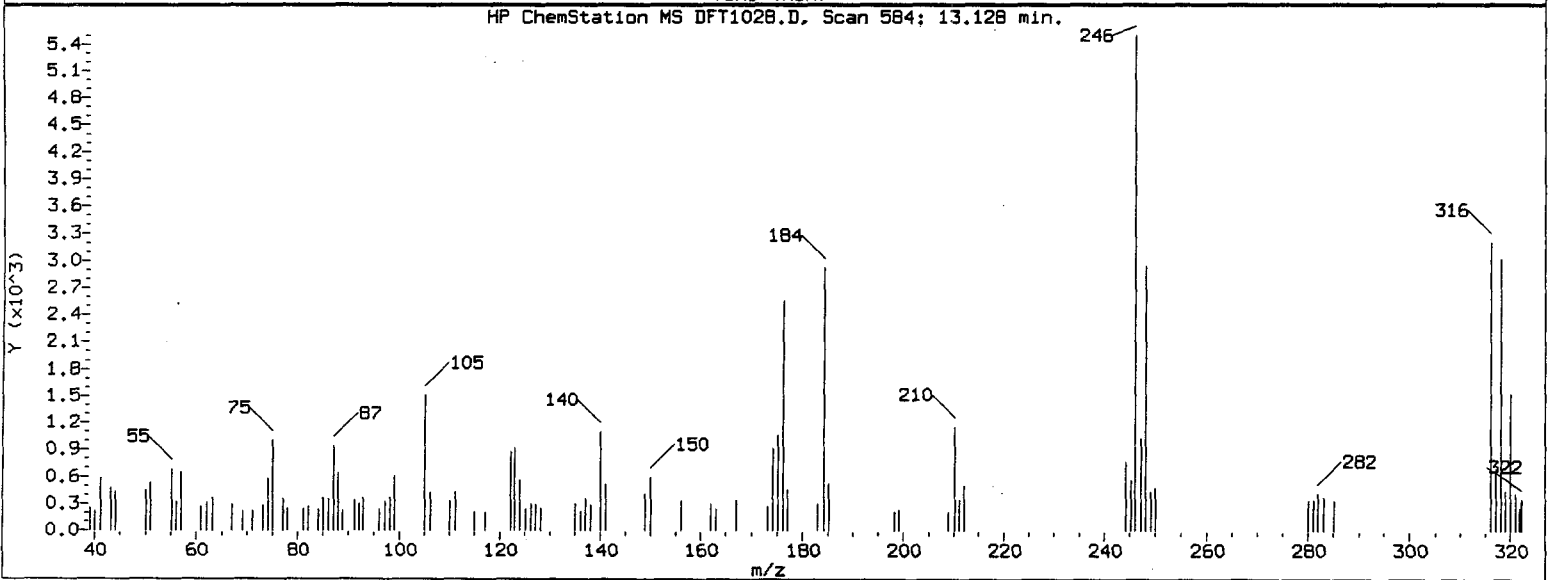
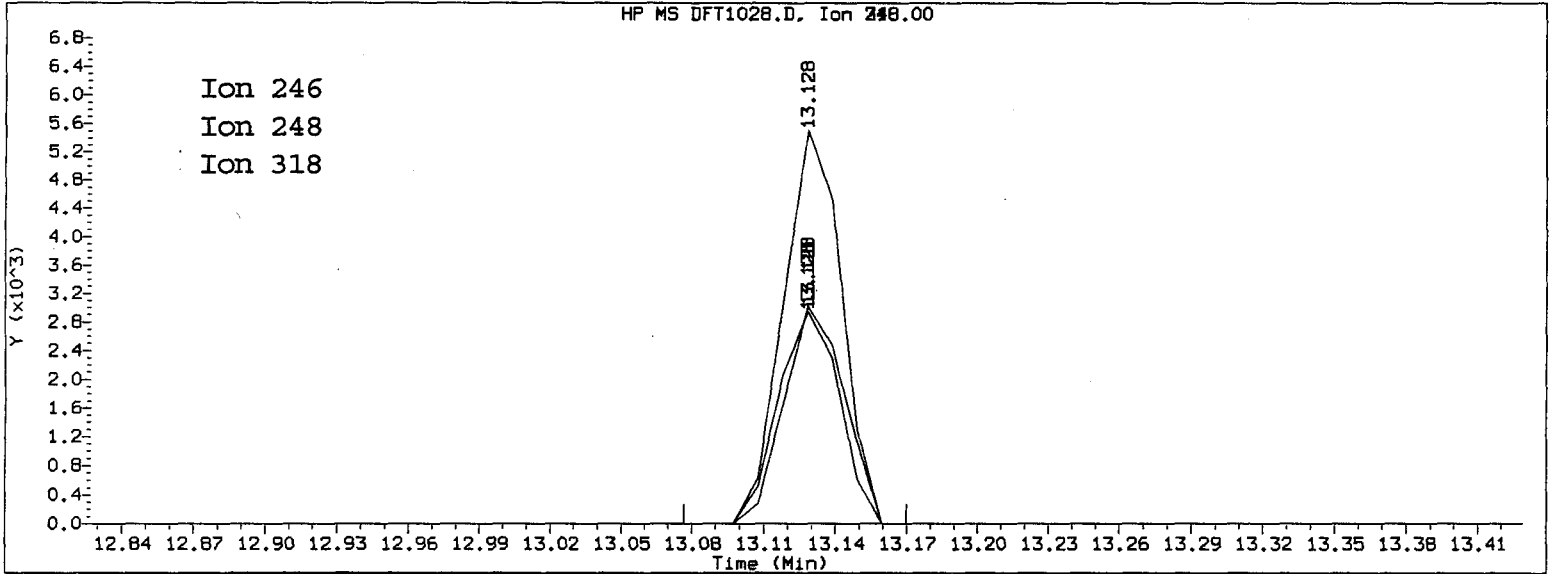
Exp. RT = 14.590

Found RT = 14.590

Mass	Area	Ratio
235	1953006	100.00
237	1248031	63.90
165	1093034	55.97

Report Date: 10/28/2010 13:26

Datafile Analyzed: //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D
Method Used: \\SV5\C\chem\sv5.i\102810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 28-OCT-2010 12:46 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

=====

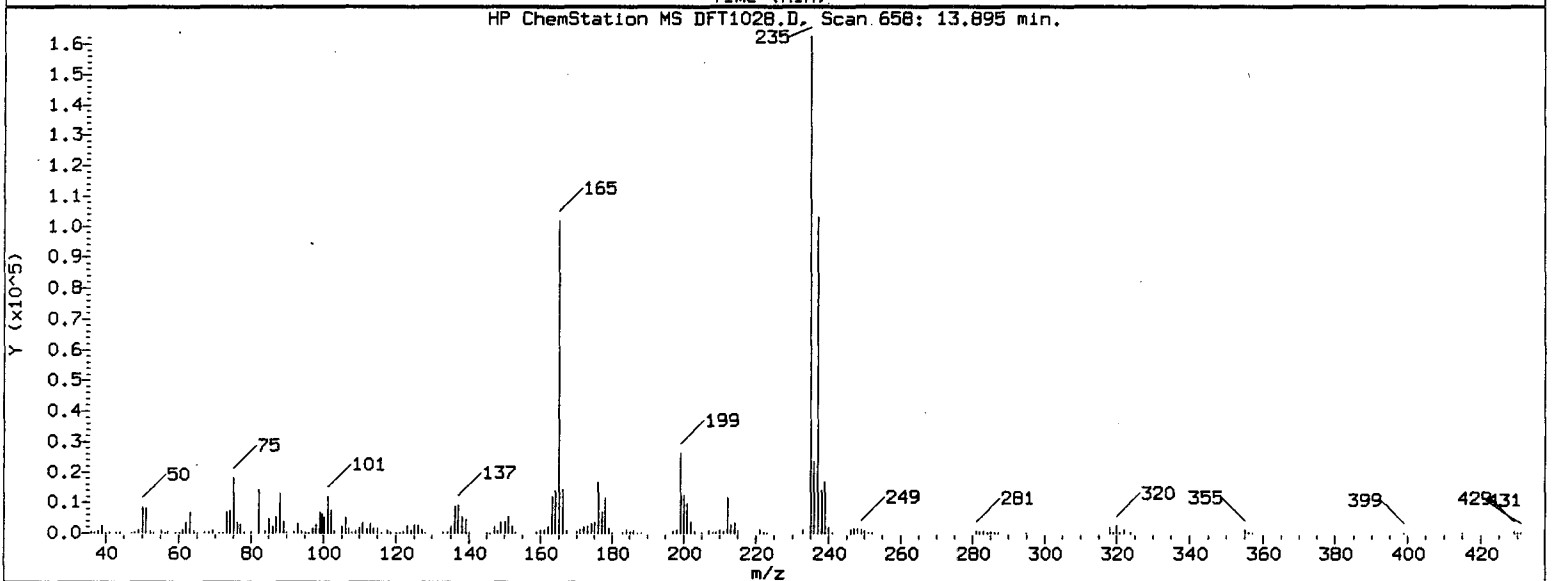
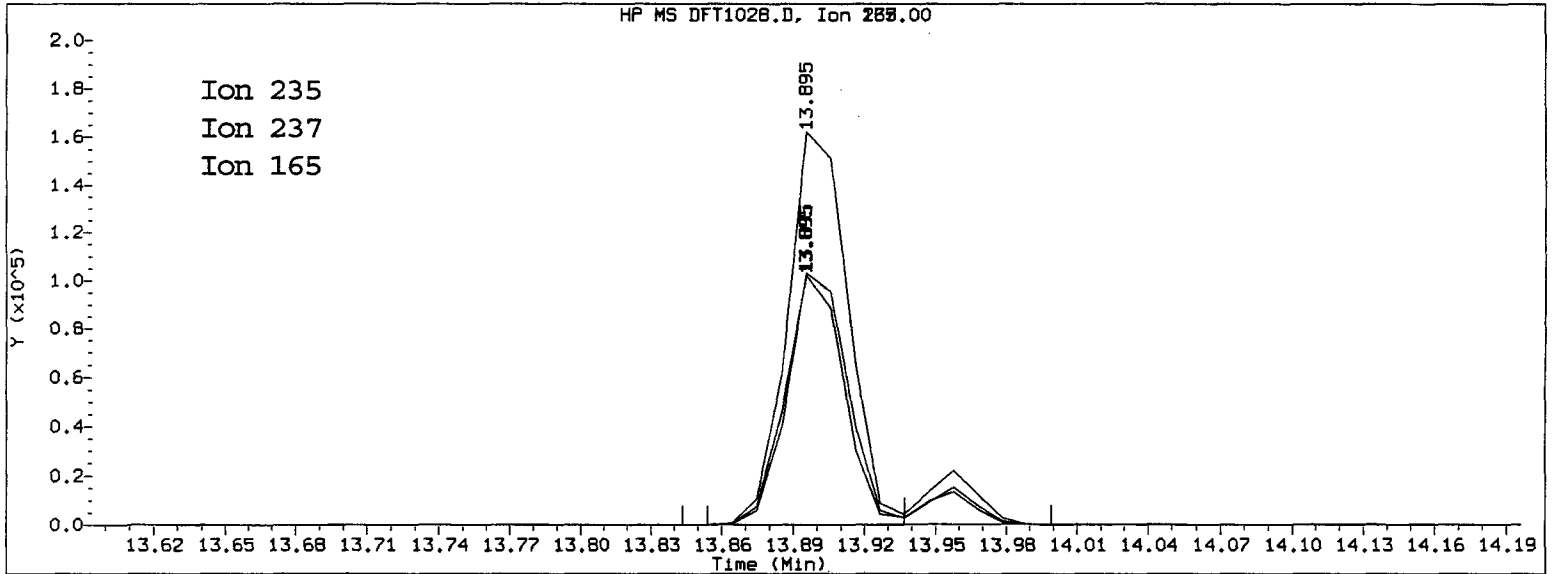
Exp. RT = 13.139

Found RT = 13.128

Mass	Area	Ratio
246	9343	100.00
248	5260	56.30
318	5331	57.06

Report Date: 10/28/2010 13:26

Datafile Analyzed: //SV5/C/chem/sv5.i/102810.B/DFT1028.D/DFT1028.D
Method Used: \\SV5\C\chem\sv5.i\102810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 28-OCT-2010 12:46 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



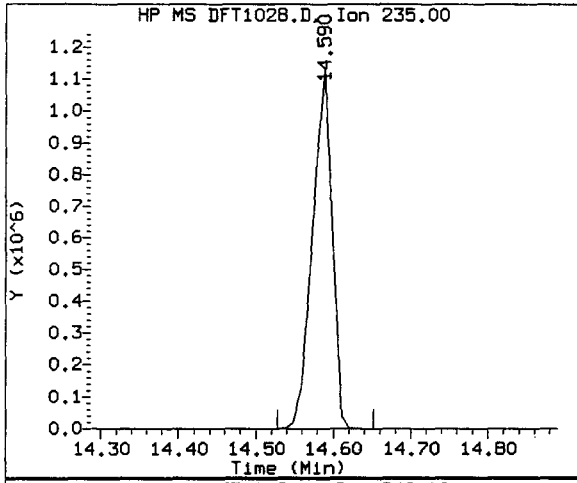
4,4'-DDD

=====

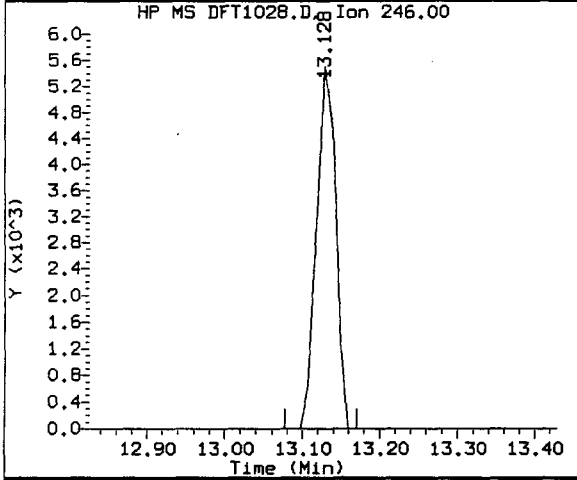
Exp. RT = 13.906

Found RT = 13.895

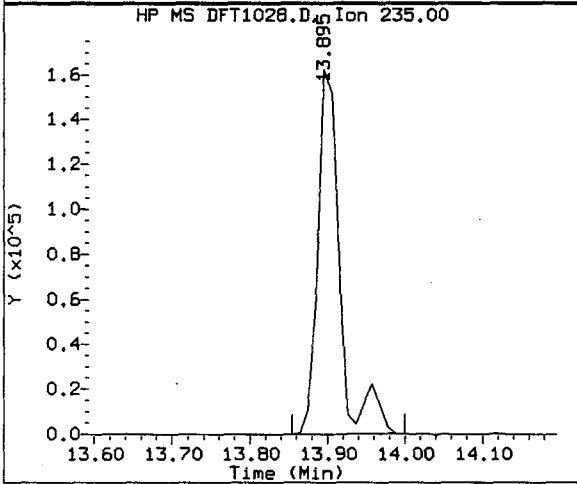
Mass	Area	Ratio
235	319750	100.00
237	182677	57.13
165	176106	55.08



Compound: 4,4'-DDT
 Quant Mass: 235
 RT: 14.590
 Area: 1953006



Compound: 4,4'-DDE
 Quant Mass: 246
 RT: 13.128
 Area: 9343



Compound: 4,4'-DDD
 Quant Mass: 235
 RT: 13.895
 Area: 319750

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4'-DDD + DDE	329093	14.4	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\102810.B\DFT1028.D
 Lab Smp Id: DFTPP 50ug/ml
 Inj Date : 28-OCT-2010 12:46
 Operator : srs
 Smp Info : DFTPP 50ug/ml; Inst ID: sv5.i
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\102810.B\DFTPP.m
 Meth Date : 24-Oct-2010 09:42 onishim Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 96 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: SV5

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
----	-----	-----	----	-----	-----	-----	-----	-----	-----
1 dftpp					CAS #: 5074-71-5				
10.516	10.713	(0.000)	198	358592			0.00-	100.00	100.00
10.516	10.713	(0.000)	51	177344			30.00-	80.00	49.46
10.516	10.713	(0.000)	68	2766			0.00-	2.00	1.68
10.516	10.713	(0.000)	69	164416			0.00-	0.00	45.85
10.516	10.713	(0.000)	70	724			0.00-	2.00	0.44
10.516	10.713	(0.000)	127	206784			25.00-	75.00	57.67
10.516	10.713	(0.000)	197	0	0.0	0.0	0.00-	1.00	0.00
10.516	10.713	(0.000)	199	24056			5.00-	9.00	6.71
10.516	10.713	(0.000)	275	71728			10.00-	30.00	20.00
10.516	10.713	(0.000)	365	7185			0.75-	0.00	2.00
10.516	10.713	(0.000)	441	38736			0.01-	99.99	73.72
10.516	10.713	(0.000)	442	255168			40.00-	110.00	71.16
10.516	10.713	(0.000)	443	52544			15.00-	24.00	20.59

Date : 28-OCT-2010 12:46

Client ID:

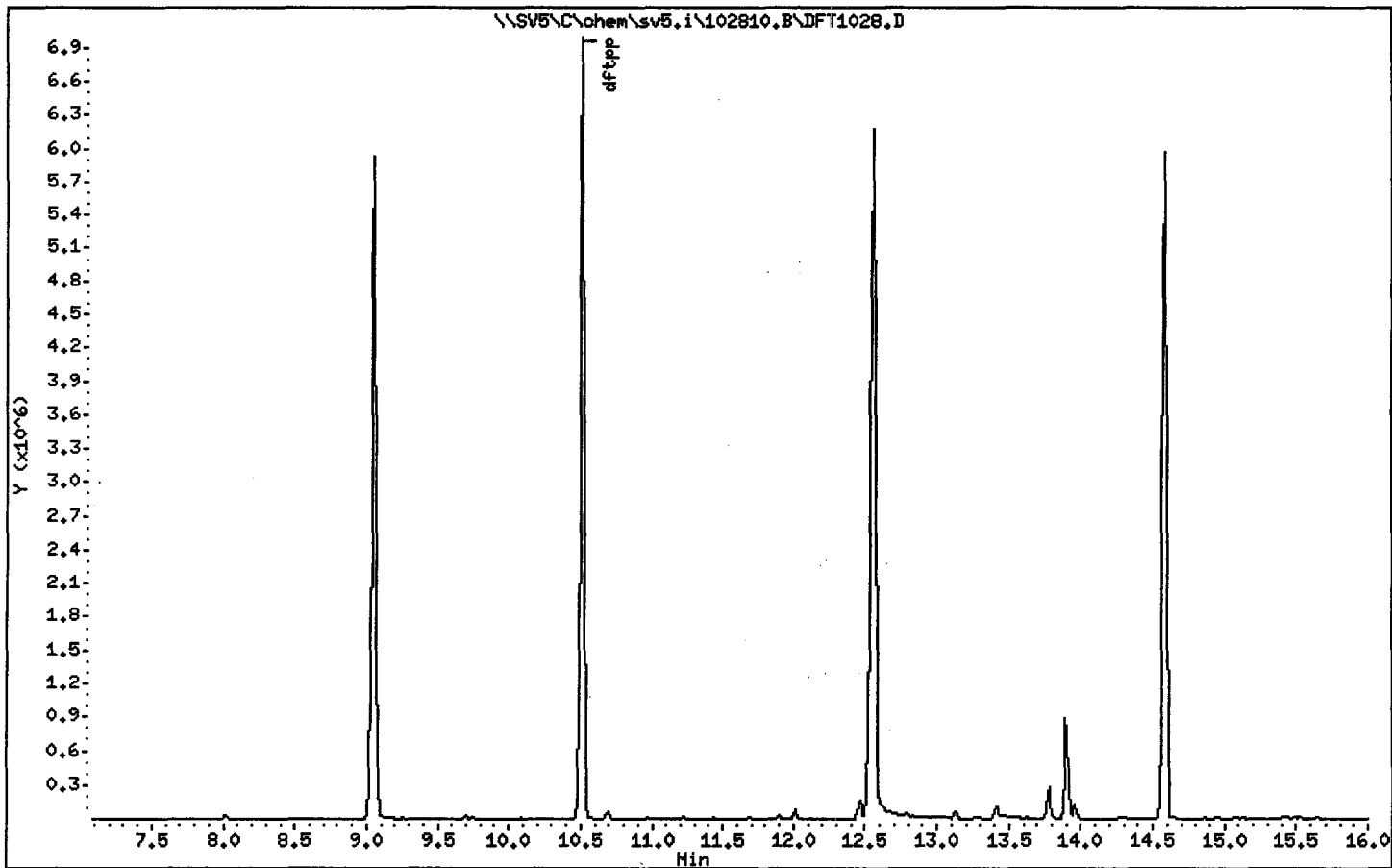
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Date : 28-OCT-2010 12:46

Client ID:

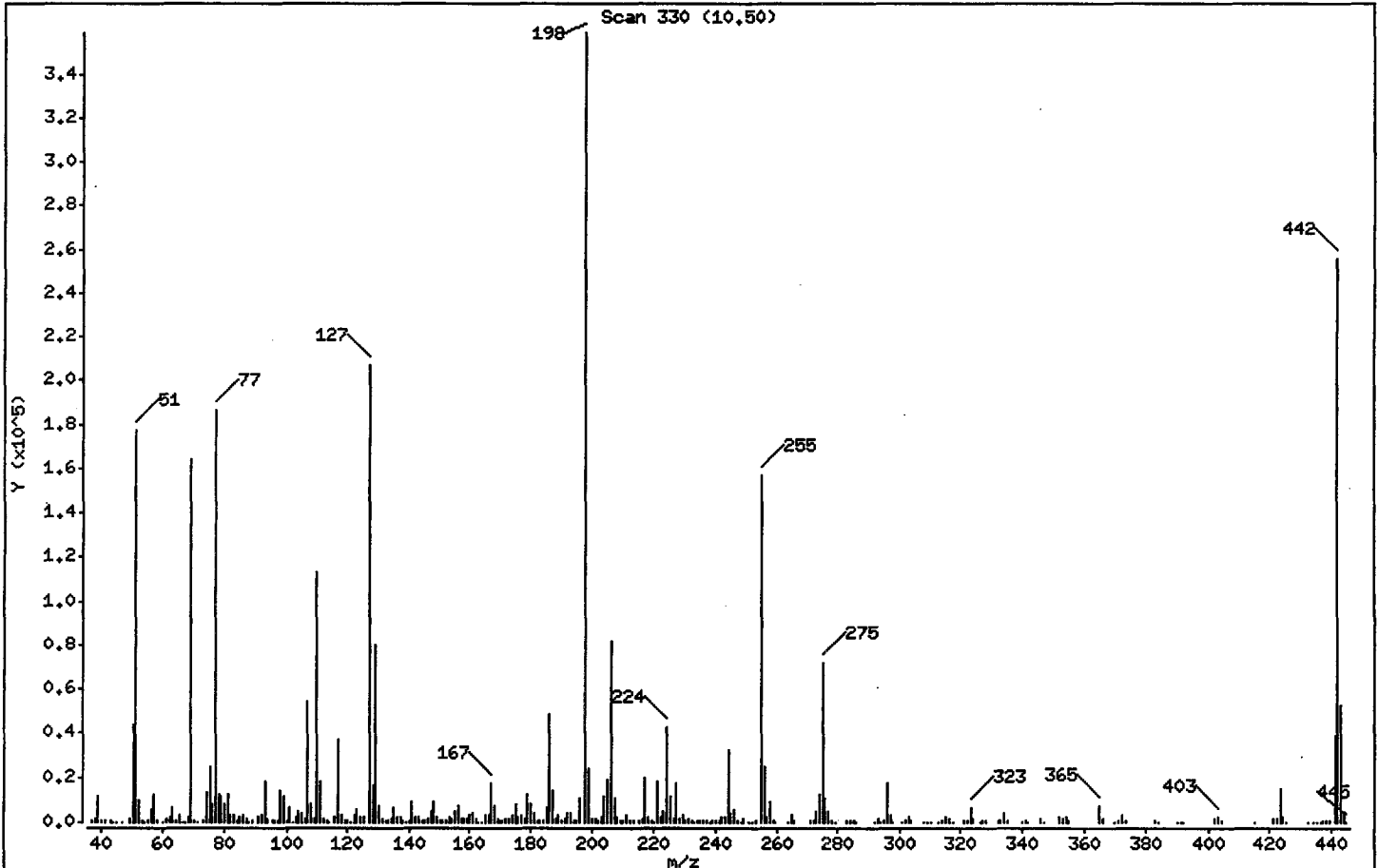
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:
1 dftpp

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	49.46
68	Less than 2.00% of mass 69	0.77 (1.68)
69	Mass 69 relative abundance	45.85
70	Less than 2.00% of mass 69	0.20 (0.44)
127	25.00 - 75.00% of mass 198	57.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	20.00
365	Greater than 0.75% of mass 198	2.00
441	Present, but less than mass 443	10.80
442	40.00 - 110.00% of mass 198	71.16
443	15.00 - 24.00% of mass 442	14.65 (20.59)

Date : 28-OCT-2010 12:46

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1028.D
 Spectrum: Scan 330 (10.50)
 Location of Maximum: 198.00
 Number of points: 300

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 37.00	857	| 120.00	692	| 196.10	10900	| 285.90	378
| 38.10	1760	| 121.10	312	| 198.00	358592	| 292.10	221
| 39.10	11135	| 122.00	3701	| 199.00	24056	| 293.10	1273
| 40.10	644	| 123.00	5754	| 200.00	1768	| 293.70	313
| 41.10	593	| 124.00	2794	| 201.60	2012	| 295.00	506
| 43.10	529	| 125.10	2384	| 202.10	594	| 296.00	17112
| 44.00	274	| 127.00	206784	| 203.10	2238	| 297.00	2890
| 45.00	376	| 128.00	16416	| 204.00	11426	| 297.90	213
| 47.00	213	| 129.00	80120	| 205.10	18992	| 300.70	281
| 49.00	1476	| 130.00	7021	| 206.10	81568	| 302.00	526
| 50.00	43920	| 131.00	1314	| 207.10	10511	| 303.00	2256
| 51.10	177344	| 132.10	653	| 208.00	2525	| 304.00	921
| 52.10	9977	| 132.70	388	| 209.00	1023	| 307.90	274
| 53.00	565	| 133.20	413	| 210.00	1166	| 308.90	214
| 54.00	276	| 134.00	1954	| 211.00	3205	| 310.00	357
| 55.10	1162	| 135.00	6226	| 212.10	483	| 312.90	245
| 56.00	5365	| 136.00	2821	| 213.00	422	| 314.00	590
| 57.00	12317	| 137.00	2715	| 215.00	1050	| 315.10	2189
| 58.00	748	| 137.90	681	| 216.10	1868	| 316.10	1303
| 60.00	215	| 139.10	201	| 217.00	19480	| 317.20	213
| 61.10	2014	| 140.20	818	| 218.00	2627	| 321.00	694
| 62.10	2239	| 141.00	9073	| 219.00	436	| 322.30	599
| 63.00	6553	| 142.00	2875	| 219.80	332	| 323.10	6695
| 64.10	1058	| 143.10	2469	| 221.00	17784	| 324.10	1453
| 65.10	3437	| 144.00	724	| 222.00	2653	| 326.10	288
| 66.10	223	| 145.00	624	| 223.00	4762	| 327.00	967
| 67.10	386	| 146.00	1881	| 224.10	42792	| 328.00	574
| 68.10	2766	| 147.00	4825	| 225.10	11410	| 332.10	443
| 69.00	164416	| 148.00	9308	| 226.10	1533	| 333.00	617
| 70.10	724	| 149.00	2199	| 227.00	17240	| 334.10	4311
| 71.10	345	| 150.10	449	| 228.00	1770	| 335.00	1230
| 73.00	1040	| 151.10	1182	| 229.10	3299	| 340.00	266
| 74.00	13234	| 152.10	842	| 230.00	703	| 341.00	1021
| 75.00	24632	| 153.00	2675	| 231.10	1402	| 342.00	241
| 76.10	8199	| 154.00	2010	| 232.10	512	| 346.00	1633

Date : 28-OCT-2010 12:46

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1028.D
 Spectrum: Scan 330 (10.50)
 Location of Maximum: 198.00
 Number of points: 300

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 77.10	186560	| 155.00	5072	| 232.80	347	| 347.20	288
| 78.10	12648	| 156.10	7497	| 234.00	1011	| 352.00	2408
| 79.00	11424	| 157.10	1830	| 235.00	1192	| 353.10	1287
| 80.00	8375	| 158.00	1792	| 235.90	684	| 354.10	2255
| 81.00	12485	| 159.00	1486	| 237.00	1144	| 355.10	440
| 82.00	3148	| 160.00	2951	| 238.00	228	| 365.00	7185
| 83.00	3483	| 161.10	4235	| 239.00	706	| 366.00	1259
| 84.20	487	| 162.00	1649	| 240.00	500	| 370.00	217
| 85.00	2241	| 163.00	387	| 241.00	862	| 371.00	596
| 86.00	3282	| 164.00	285	| 242.00	2623	| 372.00	3298
| 87.00	1563	| 165.00	3143	| 243.10	2384	| 373.10	993
| 88.00	358	| 166.00	3009	| 244.10	31760	| 383.00	1019
| 88.90	482	| 167.10	17352	| 245.00	4106	| 383.90	295
| 91.00	2757	| 168.00	7503	| 246.00	6107	| 389.90	300
| 92.00	3138	| 169.00	1367	| 247.00	1161	| 391.10	393
| 93.00	17816	| 170.10	620	| 248.10	375	| 391.90	234
| 94.00	1384	| 170.70	646	| 249.00	1345	| 402.00	1310
| 95.20	555	| 171.90	1578	| 251.00	302	| 403.00	2549
| 96.00	1009	| 173.10	1943	| 252.00	408	| 404.00	995
| 97.20	671	| 174.10	3558	| 253.00	1171	| 415.20	241
| 98.00	14230	| 175.10	7931	| 255.00	156416	| 421.00	1414
| 99.00	11375	| 176.10	2085	| 256.10	24336	| 422.00	1592
| 100.10	1168	| 177.00	3524	| 257.00	2187	| 423.10	14729
| 101.00	6848	| 178.10	1380	| 258.00	9130	| 424.00	2702
| 102.10	270	| 179.00	12053	| 259.00	1224	| 425.10	312
| 103.00	2378	| 180.00	8295	| 259.90	208	| 432.40	236
| 104.00	4758	| 181.10	3810	| 263.70	345	| 433.90	239
| 105.00	4451	| 182.10	733	| 265.00	3260	| 435.10	312
| 106.00	1617	| 183.00	430	| 265.90	716	| 436.50	221
| 107.00	54768	| 183.90	1162	| 270.90	421	| 437.10	541
| 108.00	7878	| 185.10	6558	| 272.00	685	| 438.30	426
| 109.00	1586	| 186.00	48896	| 273.00	4932	| 439.40	465
| 110.00	112872	| 187.00	13907	| 274.00	12683	| 441.00	38736
| 111.00	17976	| 188.10	1600	| 275.10	71728	| 442.00	255168
| 112.00	1996	| 189.10	3186	| 276.00	10674	| 443.00	52544

Date : 28-OCT-2010 12:46

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1028.D
Spectrum: Scan 330 (10.50)
Location of Maximum: 198.00
Number of points: 300

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.10	449	190.10	586	277.00	5263	444.00	4860
114.10	253	191.10	1471	278.00	1063	444.90	394
116.00	2770	192.00	4192	279.10	214		
117.00	37216	193.10	4435	283.10	695		
118.00	3042	194.10	835	283.90	443		
119.00	497	194.90	953	285.00	703		

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102803.D
 Lab Smp Id: L8VH41AA G0J210484- Client Smp ID: 0294378
 Inj Date : 28-OCT-2010 14:22
 Operator : srs Inst ID: sv5.i
 Smp Info : L8VH41AA G0J210484-10;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Meth Date : 29-Oct-2010 10:56 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152			3.809	3.809	(1.000)	95273	40.0000	(Q)
* 2 Naphthalene-d8	136			5.219	5.229	(1.000)	431999	40.0000	
* 3 Acenaphthene-d10	164			7.322	7.322	(1.000)	236646	40.0000	
* 4 Phenanthrene-d10	188			9.229	9.229	(1.000)	388771	40.0000	
* 5 Chrysene-d12	240			13.571	13.582	(1.000)	387373	40.0000	
* 6 Perylene-d12	264			15.945	15.955	(1.000)	381678	40.0000	
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	240043	71.4800	71.48
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	336718	79.7365	79.74
\$ 10 1,2-Dichlorobenzene-d4	152			4.017	4.006	(1.054)	71910	30.6470	30.65(Q)
\$ 11 Nitrobenzene-d5	82			4.442	4.442	(0.851)	133022	36.3550	36.36
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.892)	304654	39.9646	39.96
\$ 13 2,4,6-Tribromophenol	330			8.317	8.317	(1.136)	100984	98.2034	98.20
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.871)	332667	43.5986	43.60
108 Hexachlorobenzene	284			8.804	8.815	(0.954)	12555	5.92373	5.924

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Handwritten: 10/29/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102803.D
 Lab Smp Id: L8VH41AA G0J210484-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0294378
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	95273	-22.31
2 Naphthalene-d8	530514	265257	1061028	431999	-18.57
3 Acenaphthene-d10	282538	141269	565076	236646	-16.24
4 Phenanthrene-d10	462722	231361	925444	388771	-15.98
5 Chrysene-d12	435850	217925	871700	387373	-11.12
6 Perylene-d12	422284	211142	844568	381678	-9.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.81	3.31	4.31	3.81	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.22	-0.20
3 Acenaphthene-d10	7.32	6.82	7.82	7.32	0.00
4 Phenanthrene-d10	9.23	8.73	9.73	9.23	0.00
5 Chrysene-d12	13.58	13.08	14.08	13.57	-0.08
6 Perylene-d12	15.96	15.46	16.46	15.95	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

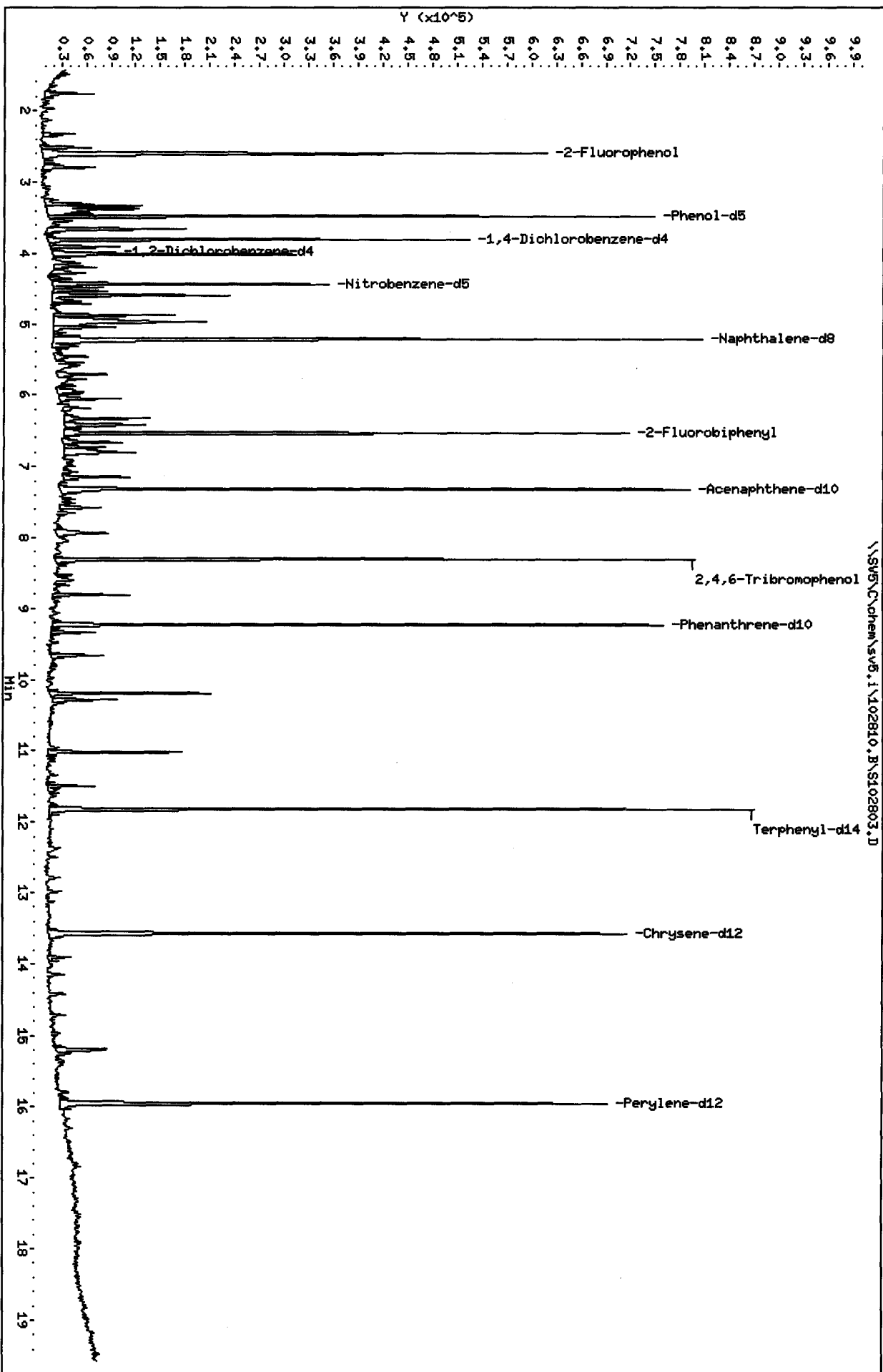
RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L8VH41AA G0J210484- Client Smp ID: 0294378
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0294378;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	71.48	71.48	41-105
\$ 8 Phenol-d5	100.0	79.74	79.74	43-122
\$ 10 1,2-Dichlorobenzen	50.00	30.65	61.29	60-120
\$ 11 Nitrobenzene-d5	50.00	36.36	72.71	46-118
\$ 12 2-Fluorobiphenyl	50.00	39.96	79.93	58-105
\$ 13 2,4,6-Tribromophen	100.0	98.20	98.20	61-118
\$ 14 Terphenyl-d14	50.00	43.60	87.20	69-110

Data File: \\SV5\C\chem\sv5.i\102810.B\S102803.D
 Date: 28-OCT-2010 14:22
 Client ID: 0294378
 Sample Info: LBWH410A G0J210484-10;0;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

Instrument: sv5.i
 Operator: srs
 Column diameter: 2.00



Date : 28-OCT-2010 14:22

Client ID: 0294378

Instrument: sv5.i

Sample Info: L8VH41AA G0J210484-10;0;;;1000;;1000;5

Volume Injected (uL): 1.0

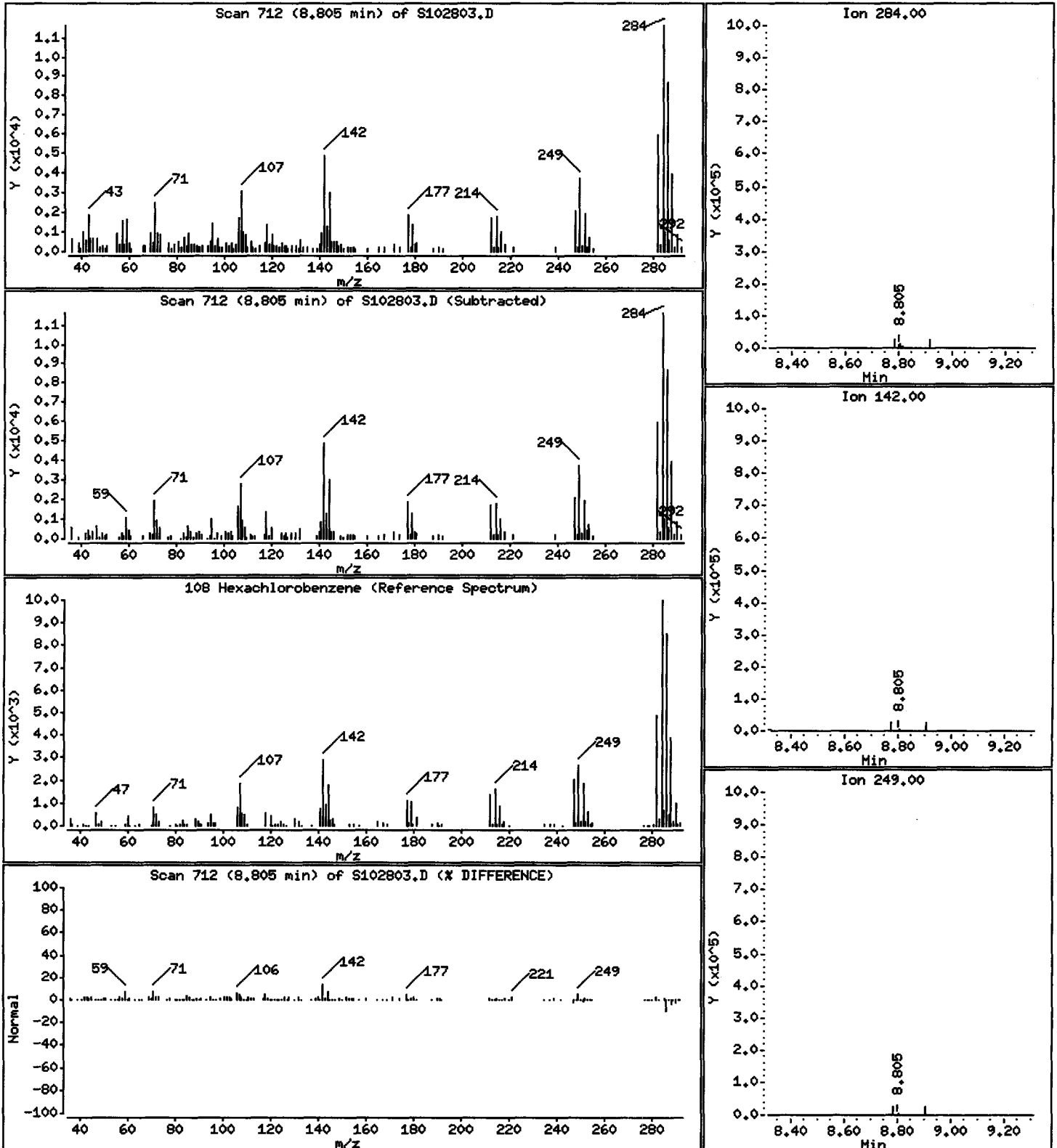
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 5.924 ug/L



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Instrument: SV5

DFTPP Mix ID: 10MSSV0129

Injection Date: 10/02/10

STD Mix IDs: 10MSSV0307-0313

Initiator/Date: KT-10/03/10

2nd Source Mix ID: 10MSSV0314, 342

Reviewer/Date: *D. J. 10/4/10*

NCM _____

I: SPCCs The SPCC RRFs must be greater than 0.050.

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

II: CCCs The CCC % RSDs must be less than 30%

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fluoranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

III: Other Criteria

The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG: _____

Tailing and degradation criteria are met.

The Tune Documentation is present and meets criteria

All Internal Standards within 50-200% of ICAL mid-point.

Calibration History Included.

Manual re-integrations are checked/initialed and hardcopies included.

Standards analyzed with within 12 hours of Tune time.

Retention time correct for Isomers and all other analytes.

Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)

The second source standard meets the SSCS criteria

File Name: _____

Initiated	Reviewed
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

IV: Non-CCC Compounds Over 15% (Write compound and %D)

None

V: Second Source Compounds Over 25% (Write compound and %D)

None

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)

Inst ID : sv5.i

JZ = EPA TO-13A (WS-MS-0005)

Batch ID : 100210.B

VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)

ICAL Date: See Calib Report

QI = EPA 8270C-SIM (WS-MS-0008)

See raw data for standard IDs

FX = PAH-SIM Isotope Dilution (WS-MS-0006)

F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
02-OCT-2010	11:43	KT	Primer	QC001.D	NA	NA	NA		
02-OCT-2010	12:06	KT	DFTPP 50ug/ml	DFT1002.D	NA	NA	NA		
02-OCT-2010	12:27	KT	HSL_005 ug/ml CS-1	HSL1002A.	NA	NA	NA		
02-OCT-2010	12:53	KT	HSL_010 ug/ml CS-2	HSL1002B.	NA	NA	NA		
02-OCT-2010	13:18	KT	HSL_020 ug/ml CS-3	HSL1002C.	NA	NA	NA		
02-OCT-2010	13:44	KT	HSL_050 ug/ml CS-4	HSL1002D.	NA	NA	NA		
02-OCT-2010	14:09	KT	HSL_080 ug/ml CS-5	HSL1002E.	NA	NA	NA		
02-OCT-2010	14:35	KT	HSL_120 ug/ml CS-6	HSL1002F.	NA	NA	NA		
02-OCT-2010	15:00	KT	HSL_160 ug/ml CS-7	HSL1002G.	NA	NA	NA		
02-OCT-2010	16:11	KT	HSL_050 ug/ml ICV	HSL1002H.	NA	NA	NA		
02-OCT-2010	16:36	KT	Benzidines ICV 50ug/mL	HSL1002H1	NA	NA	NA		

SNS HSL
 10/3/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onishim

Calibration File Names:

- Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D
- Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D
- Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D
- Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D
- Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D
- Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D
- Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

Compound	Coefficients							m2	m1	b	Curve	Levels							AVRG	AVRG	AVRG	AVRG	AVRG																
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	30.0000 Level 4	40.0000 Level 5	50.0000 Level 6	60.0000 Level 7					80.0000 Level 1	100.0000 Level 2	120.0000 Level 3	140.0000 Level 4	160.0000 Level 5	180.0000 Level 6	200.0000 Level 7						2.16207	5.85560	3.09753	1.80250												
15 N-Nitrosodimethylamine	0.92899	0.88268	0.91048	0.91970	0.93146	0.93916				AVRG					0.92154																								
16 Pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256				AVRG					1.54111																								
23 Aniline	2.20796	2.15935	2.19988	2.26058	2.29749	2.33400				AVRG					2.25673																								
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06683	2.06089				AVRG					2.03729																								

Manual calculation for 2.4.5-Tribromophenol @ Level 3.
 $\frac{5529}{328608} \times \frac{40}{20} = 0.33796$ by 10/4/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 Onishim

Compound	Coefficients							m2	RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve			b	ml
26 Bis(2-chloroethyl)ether	1.47335 1.44264	1.38252	1.39491	1.43824	1.42549	1.44300	AVRG	1.42859	2.17028
27 2-Chlorophenol	1.52099 1.57039	1.55595	1.56903	1.58168	1.56789	1.58074	AVRG	1.56381	1.32805
28 1,3-Dichlorobenzene	1.68903 1.72457	1.69173	1.67754	1.73135	1.68641	1.72399	AVRG	1.70337	1.29370
29 1,4-Dichlorobenzene	1.77122 1.81444	1.79861	1.74013	1.76898	1.78200	1.79288	AVRG	1.78118	1.35229
30 Benzyl Alcohol	1.01643 1.09506	1.03654	0.99182	1.04980	1.07792	1.08952	AVRG	1.05101	3.69696
31 1,2-Dichlorobenzene	1.62008 1.64691	1.63185	1.60455	1.68061	1.63410	1.64415	AVRG	1.63746	1.45884
32 2-Methylphenol	1.40818 1.47889	1.38930	1.39110	1.42620	1.45565	1.46154	AVRG	1.43012	2.50558

TestAmerica West Sacramento

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							Curve	b	Coefficients		m2	%RSD or R ²
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	m1						
33 2,2'-oxybis(1-Chloropropane)	2.29602 2.28770	2.22080	2.28329	2.27928	2.27018	2.27830	AVRG		2.27365			1.08468	
34 4-Methylphenol	1.48606 1.58763	1.48913	1.46270	1.52239	1.52653	1.55886	AVRG		1.51904			2.88378	
36 Hexachloroethane	0.60925 0.60919	0.60836	0.60573	0.61394	0.60427	0.59381	AVRG		0.60636			1.04319	
37 N-Nitrosodipropylamine	0.94498 1.04757	0.97005	1.01302	1.02370	1.04700	1.03627	AVRG		1.01180			3.92615	
42 Nitrobenzene	0.32855 0.33901	0.32602	0.32543	0.33083	0.33379	0.33450	AVRG		0.33116			1.48904	
44 Isophorone	0.63431 0.65411	0.62291	0.61160	0.63944	0.63648	0.66468	AVRG		0.63679			2.81109	
45 2-Nitrophenol	0.18608 0.20508	0.18833	0.18840	0.20021	0.20022	0.20702	AVRG		0.19648			4.42274	

TestAmerica West Sacramento
INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISITD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients ml	m2	RSR or R^2
----- 160.0000 Level 7 -----											
46 2,4-Dimethylphenol	0.34459 0.35785	0.34167	0.34307	0.34312	0.34788	0.35962	AVRG		0.34911		2.02786
47 Bis(2-chloroethoxy)methane	0.41146 0.38545	0.37494	0.38565	0.38249	0.38500	0.39859	AVRG		0.38908		3.10601
49 2,4-Dichlorophenol	0.25434 0.27809	0.26318	0.27019	0.27037	0.27274	0.28180	AVRG		0.27010		3.39345
50 Benzoic Acid	0.16747 0.22180	0.16266	0.17423	0.19357	0.21024	0.22272	AVRG		0.19324		13.25202
51 1,2,4-Trichlorobenzene	0.29430 0.29091	0.28827	0.28475	0.29747	0.29189	0.29959	AVRG		0.29246		1.75989
52 Naphthalene	1.09939 1.10247	1.12462	1.07435	1.09325	1.09870	1.13821	AVRG		1.10443		1.89960
54 4-Chloroaniline	0.40751 0.43867	0.42534	0.43264	0.43910	0.43781	0.44905	AVRG		0.43288		3.06843

TestAmerica West Sacramento
INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISTD
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 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Levels							Curve	Coefficients		RSD or R ²
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		m1	m2	
57 Hexachlorobutadiene	0.14295 0.14473	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG	0.14313			1.58904
60 4-Chloro-3-Methylphenol	0.29329 0.30839	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG	0.30164			3.64422
63 2-Methylnaphthalene	0.68483 0.69217	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG	0.69378			1.79740
66 Hexachlorocyclopentadiene	0.26878 0.33186	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG	0.28846			7.64489
69 2,4,6-Trichlorophenol	0.31186 0.33638	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG	0.31913			5.15654
70 2,4,5-Trichlorophenol	0.30823 0.36135	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG	0.34380			5.80662
71 2-Chloronaphthalene	1.13629 1.15096	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG	1.12571			2.05054

TestAmerica West Sacramento

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Levels							Curve	Coefficients		m2	RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		m1			
73 2-Nitroaniline	0.31576 0.36278	0.31759	0.33397	0.35205	0.34821	0.35794	AVRG	0.34119				5.57334
76 Dimethylphthalate	1.23388 1.30237	1.25191	1.29803	1.34568	1.31165	1.32891	AVRG	1.29606				3.09317
77 Acenaphthylene	1.86531 2.02968	1.91304	1.91818	2.01646	1.98204	1.99786	AVRG	1.96037				3.15026
79 2,6-Dinitrotoluene	0.28347 0.31106	0.27378	0.29890	0.31220	0.31294	0.32140	AVRG	0.30197				5.78579
80 3-Nitroaniline	0.35362 0.39603	0.34622	0.35978	0.40036	0.38674	0.39559	AVRG	0.37691				6.05861
81 Acenaphthene	1.25874 1.25463	1.22468	1.26733	1.27046	1.21141	1.24781	AVRG	1.24787				1.76776
82 2,4-Dinitrophenol	4083 265655	7537	23799	58864	110384	199007	QUAD	0.10620	5.32413	-0.71963		0.99812

TestAmerica West Sacramento

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Levels							Curve	Coefficients		RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		m1	m2	
83 Dibenzofuran	1.57786 1.71077	1.62124	1.65200	1.69530	1.65117	1.68450	AVRG	1.65612			2.77923
84 4-Nitrophenol	0.12712 0.17404	0.14148	0.15316	0.16076	0.17130	0.16653	AVRG	0.15634			10.90920
86 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42154	0.41035	0.42305	AVRG	0.39633			8.61592
91 Fluorene	1.34567 1.40640	1.33840	1.34292	1.39902	1.38899	1.37935	AVRG	1.37139			2.08557
92 Diethylphthalate	1.22240 1.38087	1.29889	1.31549	1.37912	1.31873	1.37345	AVRG	1.32699			4.31889
93 4-Chlorophenyl-phenylether	0.54964 0.57695	0.55917	0.56887	0.59265	0.56708	0.57695	AVRG	0.57019			2.42913
94 4-Nitroaniline	0.33346 0.40452	0.33747	0.37329	0.38337	0.39216	0.39102	AVRG	0.37361			7.42395

TestAmerica West Sacramento
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 Quant Method : ISTD
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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000							20.0000							50.0000							80.0000							120.0000							Curve	Coefficients			RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	ml	m2										
97 4,6-Dinitro-2-methylphenol	5780	11282	32982	76137	134784	236477																					0.10840	0.15581		0.99840										
98 N-Nitrosodiphenylamine	0.57756	0.59736	0.60533	0.60433	0.62172	0.61801																					0.60628			2.57715										
100 Arobenzene	0.77527	0.76965	0.77321	0.79522	0.80064	0.81892																					0.78660			2.37146										
101 4-Bromophenyl-phenylether	0.18964	0.18507	0.19281	0.19931	0.19607	0.20581																					0.19527			3.48752										
108 Hexachlorobenzene	0.22958	0.22054	0.20740	0.21605	0.21731	0.21704																					0.21807			3.00928										
110 Pentachlorophenol	5849	10551	30451	67882	126397	215360																					0.09816	0.14122		0.99845										
114 Phenanthrene	1.30347	1.26007	1.25408	1.24163	1.24375	1.25610																					1.26074			1.64308										

TestAmerica West Sacramento

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							m2	RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve		
115 Anthracene	1.25034 1.26958	1.21759	1.24206	1.25982	1.27529	1.30214	AVRG	1.25955	2.12888
118 Carbazole	1.13211 1.16455	1.12547	1.13694	1.14260	1.17067	1.18192	AVRG	1.15061	1.87826
120 Di-n-Butylphthalate	1.28492 1.48636	1.32287	1.36193	1.38164	1.41474	1.43847	AVRG	1.38442	4.97257
126 Fluoranthene	1.03840 1.17440	1.07611	1.17216	1.10520	1.15861	1.18294	AVRG	1.12969	5.01774
127 Benzidine	0.78175 0.86381	0.76431	0.75250	0.82658	0.82201	0.86375	AVRG	0.81067	5.60614
128 Pyrene	1.25791 1.25794	1.23783	1.17078	1.28684	1.25586	1.28463	AVRG	1.25025	3.12172
134 3,3'-dimethylbenzidine	0.65472 0.79926	0.64388	0.67361	0.70756	0.73630	0.79414	AVRG	0.71564	8.88815

Report Date : 03-Oct-2010 11:10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							m2	WRSD or R^2		
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve			b	m1
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233	AVRG		0.62563		3.95034
138 Benzo(e)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831	AVRG		1.06548		4.05847
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241	AVRG		1.08994		2.59426
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717	AVRG		0.40189		4.53885
141 bis(2-ethylhexyl)phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539	AVRG		0.86316		4.34816
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39956	1.47616	AVRG		1.37975		6.65055
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132	AVRG		0.90549		10.05836

TestAmerica West Sacramento

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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							m2	%RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		
145 Benzo (k) fluoranthene	1.22939 1.10447	1.16528	1.20022	1.09895	1.14223	1.19597	AVRG	1.16236	4.27893
147 Benzo (e) pyrene	0.90394 0.97185	0.92734	0.90757	0.95977	0.96997	0.96929	AVRG	0.94425	3.22007
148 Benzo (a) pyrene	0.98300 1.06523	0.97686	0.99402	1.02789	1.07610	1.06275	AVRG	1.02655	4.11137
151 Indeno (1,2,3-cd) pyrene	0.73783 0.97995	0.73267	0.73671	0.84698	0.84057	0.93730	AVRG	0.83029	12.15083
152 Dibenzo (a,h) anthracene	0.88099 1.00392	0.84384	0.87256	0.92240	0.95990	1.00944	AVRG	0.92758	7.07091
153 Benzo (g,h,i) perylene	0.96025 1.04026	0.98457	0.97380	0.99974	1.01731	1.05397	AVRG	1.00427	3.45188
M 162 benzo b,k Fluoranthene Totals	2.03951 2.13019	1.97605	2.02770	2.09825	2.09596	2.10729	AVRG	2.06785	2.64859

TestAmerica West Sacramento
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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							m2	%RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve		
\$ 7 2-Fluorophenol	1.44503 1.43635	1.30436	1.38373	1.44170	1.43535	1.42292	AVRG	1.40992	3.61494
\$ 8 Phenol-d5	1.72227 1.83627	1.67335	1.74151	1.79006	1.80863	1.83864	AVRG	1.77296	3.52001
\$ 9 2-Chlorophenol-d4	1.47770 1.57804	1.55530	1.53916	1.59414	1.57486	1.57967	AVRG	1.55698	2.52388
\$ 10 1,2-Dichlorobenzene-d4	0.95776 0.98896	0.98111	0.99827	0.98914	0.99518	0.98547	AVRG	0.98513	1.35559
\$ 11 Nitrobenzene-d5	0.33028 0.33970	0.34256	0.33065	0.34105	0.33606	0.35127	AVRG	0.33879	2.16217
\$ 12 2-Fluorobiphenyl	1.28499 1.30010	1.26007	1.27668	1.34206	1.25854	1.29723	AVRG	1.28852	2.22622
\$ 13 2,4,6-Tribromophenol	0.15034 0.18390	0.16527	0.17466	0.17926	0.17825	0.18501	AVRG	0.17381	7.05197

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
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 Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
----- 160.0000 Level 7 -----											
\$ 14 Terphenyl-d14	0.78508 0.80107	0.78616	0.73917	0.80441	0.78047	0.81889	AVRG		0.78789		3.21384

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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 Last Edit : 03-Oct-2010 11:09 onishim

Curve	Formula	Units
Averaged	Amt = Rep/ml	Response
Linear	Amt = b + Rep/ml	Response
Quad	Amt = b + ml*Rep + m2*Rep^2	Response

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit: 04-Oct-2010 09:00 onishim
 Compound : 82 2,4-Dinitrophenol
 Mass: 184.00
 Istd Compound: * 3 Acenaphthene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
 Origin: None
 Amt = Rsp/ml
 ml = 0.15933171100000
 RSD: 26.349

Initial Calibration Table

lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	7.572	5.00000	4083	7.468	40.000	321839	0.10149173965865
2	7.572	10.00000	7537	7.468	40.000	272639	0.11057845722732
3	7.572	20.00000	23799	7.468	40.000	328608	0.14484735612036
4	7.582	50.00000	58864	7.468	40.000	282538	0.16667209366528
5	7.572	80.00000	110384	7.468	40.000	300315	0.18378036395118
6	7.582	120.00000	199007	7.468	40.000	322596	0.20563077864160
7	7.582	160.00000	265655	7.478	40.000	328259	0.20232118540543

lvl	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
-----	----	--------	----------	----	-------------	---------------	-----------------

| 1 |	7.582 |	50.000 |	50142 |	7.468 |	40.000 |	236662 |	0.16949742670982 |
| 2 |	7.572 |	50.000 |	58864 |	7.468 |	40.000 |	282538 |	0.16667209366528 |
| 3 |	7.582 |	50.000 |	56608 |	7.468 |	40.000 |	239304 |	0.18924213552636 |
| 4 |	7.589 |	50.000 |	98553 |	7.485 |	40.000 |	440855 |	0.17883975456783 |
| 5 |	7.599 |	50.000 |	81881 |	7.485 |	40.000 |	371846 |	0.17616109894957 |
| 6 |	7.599 |	50.000 |	55069 |	7.495 |	40.000 |	283828 |	0.15521794889863 |
| 7 |	7.599 |	50.000 |	52896 |	7.496 |	40.000 |	256342 |	0.16507946415336 |
| 8 |	7.599 |	50.000 |	50586 |	7.495 |	40.000 |	224545 |	0.18022578993075 |
| 9 |	7.610 |	50.000 |	31559 |	7.506 |	40.000 |	165705 |	0.15236233064784 |
| 10 |	7.610 |	50.000 |	50181 |	7.506 |	40.000 |	226619 |	0.17714666466625 |
| 11 |	7.610 |	50.000 |	44092 |	7.506 |	40.000 |	201923 |	0.17468837130986 |
| 12 |	7.620 |	50.000 |	81056 |	7.516 |	40.000 |	329174 |	0.19699247206645 |
| 13 |	7.620 |	50.000 |	93793 |	7.516 |	40.000 |	378407 |	0.19829020076267 |
| 14 |	7.630 |	50.000 |	68549 |	7.516 |	40.000 |	271629 |	0.20189007801082 |
| 15 |	7.630 |	50.000 |	54835 |	7.516 |	40.000 |	219680 |	0.19969045884924 |
| 16 |	7.630 |	50.000 |	67628 |	7.527 |	40.000 |	267569 |	0.20219980640508 |
| 17 |	7.630 |	50.000 |	94376 |	7.527 |	40.000 |	349016 |	0.21632475301992 |
| 18 |	7.635 |	50.000 |	51607 |	7.532 |	40.000 |	209252 |	0.19730086211840 |
| 19 |	7.635 |	50.000 |	62563 |	7.531 |	40.000 |	260404 |	0.19220288474831 |
| 20 |	7.646 |	50.000 |	80386 |	7.542 |	40.000 |	334425 |	0.19229662854153 |
| 21 |	7.645 |	50.000 |	25473 |	7.542 |	40.000 |	302573 |	0.06735035842590 |
| 22 |	7.645 |	50.000 |	17649 |	7.542 |	40.000 |	223404 |	0.06320030080034 |
| 23 |	7.646 |	50.000 |	68382 |	7.542 |	40.000 |	292758 |	0.18686286967393 |
| 24 |	7.656 |	50.000 |	97952 |	7.552 |	40.000 |	390143 |	0.20085353319168 |
| 25 |	7.656 |	50.000 |	63647 |	7.552 |	40.000 |	289221 |	0.17605084001507 |
| 26 |	7.666 |	50.000 |	79703 |	7.563 |	40.000 |	331752 |	0.19219899201813 |
| 27 |	7.677 |	50.000 |	59624 |	7.573 |	40.000 |	245725 |	0.19411618679418 |
| 28 |	7.687 |	50.000 |	60561 |	7.583 |	40.000 |	237909 |	0.20364425053277 |
| 29 |	7.687 |	50.000 |	42226 |	7.583 |	40.000 |	172923 |	0.19535168832370 |
| 30 |	7.687 |	50.000 |	51997 |	7.583 |	40.000 |	208221 |	0.19977619932668 |
| 31 |	7.697 |	50.000 |	51275 |	7.594 |	40.000 |	202822 |	0.20224630464151 |
| 32 |	7.697 |	50.000 |	65531 |	7.594 |	40.000 |	250339 |	0.20941523294413 |
| 33 |	7.760 |	50.000 |	76785 |	7.656 |	40.000 |	344524 |	0.17829817371214 |

| 34 |	7.759 |	50.000 |	68725 |	7.656 |	40.000 |	303207 |	0.18132826748723 |
| 35 |	7.770 |	50.000 |	66249 |	7.666 |	40.000 |	308864 |	0.17159397016162 |
| 36 |	7.780 |	50.000 |	63983 |	7.677 |	40.000 |	288883 |	0.17718730420274 |
| 37 |	7.780 |	50.000 |	61267 |	7.677 |	40.000 |	292290 |	0.16768825481542 |
| 38 |	7.791 |	50.000 |	56069 |	7.687 |	40.000 |	238922 |	0.18773993186061 |
| 39 |	7.791 |	50.000 |	50573 |	7.687 |	40.000 |	243613 |	0.16607652300986 |
| 40 |	7.791 |	50.000 |	55930 |	7.687 |	40.000 |	256301 |	0.17457598682799 |
| 41 |	7.791 |	50.000 |	55930 |	7.687 |	40.000 |	256301 |	0.17457598682799 |
| 42 |	7.791 |	50.000 |	43995 |	7.687 |	40.000 |	215682 |	0.16318468856928 |
| 43 |	7.801 |	50.000 |	55663 |	7.697 |	40.000 |	269061 |	0.16550299002828 |
| 44 |	7.801 |	50.000 |	52406 |	7.697 |	40.000 |	242418 |	0.17294425331452 |
| 45 |	7.801 |	50.000 |	49689 |	7.697 |	40.000 |	246748 |	0.16110039392417 |
| 46 |	7.801 |	50.000 |	83728 |	7.697 |	40.000 |	361851 |	0.18511044601231 |
| 47 |	7.801 |	50.000 |	69470 |	7.697 |	40.000 |	316865 |	0.17539330629763 |
| 48 |	7.811 |	50.000 |	98764 |	7.708 |	40.000 |	448001 |	0.17636389204488 |
| 49 |	7.811 |	50.000 |	65199 |	7.708 |	40.000 |	319060 |	0.16347771579013 |
| 50 |	7.811 |	50.000 |	63819 |	7.708 |	40.000 |	326041 |	0.15659134894078 |
| 51 |	7.811 |	50.000 |	69420 |	7.708 |	40.000 |	325539 |	0.17059707131864 |
| 52 |	7.822 |	50.000 |	66513 |	7.718 |	40.000 |	295770 |	0.17990465564459 |
| 53 |	7.822 |	50.000 |	58901 |	7.718 |	40.000 |	274779 |	0.17148617616339 |
| 54 |	7.822 |	50.000 |	58321 |	7.718 |	40.000 |	264752 |	0.17622831933281 |
| 55 |	7.816 |	50.000 |	90734 |	7.713 |	40.000 |	414154 |	0.17526620532459 |
| 56 |	7.858 |	50.000 |	49564 |	7.754 |	40.000 |	260934 |	0.15195873285965 |
| 57 |	7.858 |	50.000 |	63475 |	7.754 |	40.000 |	318667 |	0.15935129774969 |
| 58 |	7.889 |	50.000 |	58884 |	7.785 |	40.000 |	318462 |	0.14792094504211 |
| 59 |	7.889 |	50.000 |	52456 |	7.796 |	40.000 |	304639 |	0.13775255302177 |
| 60 |	7.889 |	50.000 |	44855 |	7.796 |	40.000 |	283970 |	0.12636546114026 |
| 61 |	7.889 |	50.000 |	40711 |	7.785 |	40.000 |	264293 |	0.12322990014870 |
| Avg |	7.719 |	50.000 |	61661 |	7.615 |	40.000 |	4333 |	0.17364233986573 |

Ind	Sublist	Calibration File
| 1 |	| 1_B270STD	| \\sv5\c\chem\sv5.i\100210.B\HSL1002H

2|1_8270STD	|\sv5\C\chem\sv5.i\100210.B\HSL1002D
3|1_8270STD	|\sv5\C\chem\sv5.i\100210.B\QC001
4|1_8270STD	|\sv5\C\chem\sv5.i\100110.B\HSL1001
5|1_8270STD	|\sv5\C\chem\sv5.i\093010.B\HSL0930
6|1_8270STD	|\sv5\C\chem\sv5.i\092910A.B\HSL0929A
7|1_8270STD	|\sv5\C\chem\sv5.i\092910.B\HSL0929
8|1_8270STD	|\sv5\C\chem\sv5.i\092910.B\QC001
9|1_8270STD	|\sv5\C\chem\sv5.i\092810A.B\HSL0928
10|1_8270STD	|\sv5\C\chem\sv5.i\092810.B\HSL0928
11|1_8270STD	|\sv5\C\chem\sv5.i\092710.B\HSL0927
12|1_8270STD	|\sv5\C\chem\sv5.i\092510.B\QC001
13|1_8270STD	|\sv5\C\chem\sv5.i\092510.B\HSL0925
14|1_8270STD	|\sv5\C\chem\sv5.i\092410.B\QC001
15|1_8270STD	|\sv5\C\chem\sv5.i\092410.B\HSL0924
16|1_8270STD	|\sv5\C\chem\sv5.i\092310A.B\HSL0923A
17|1_8270STD	|\sv5\C\chem\sv5.i\092310A.B\QC001
18|1_8270STD	|\sv5\C\chem\sv5.i\092310.B\QC001
19|1_8270STD	|\sv5\C\chem\sv5.i\092310.B\HSL0923
20|1_8270STD	|\sv5\C\chem\sv5.i\092210.B\HSL0922a
21|1_8270STD	|\sv5\C\chem\sv5.i\092210.B\HSL0922
22|1_8270STD	|\sv5\C\chem\sv5.i\092210.B\QC001
23|1_8270STD	|\sv5\C\chem\sv5.i\092110.B\HSL0921
24|1_8270STD	|\sv5\C\chem\sv5.i\092010.B\QC001
25|1_8270STD	|\sv5\C\chem\sv5.i\092010.B\HSL0920
26|1_8270STD	|\sv5\C\chem\sv5.i\091910a.B\HSL0919a
27|1_8270STD	|\sv5\C\chem\sv5.i\091910.B\HSL0919
28|1_8270STD	|\sv5\C\chem\sv5.i\091910.B\QC001
29|1_8270STD	|\sv5\C\chem\sv5.i\091710.B\HSL0917
30|1_8270STD	|\sv5\C\chem\sv5.i\091710.B\QC001
31|1_8270STD	|\sv5\C\chem\sv5.i\091510b.B\HSL0915b
32|1_8270STD	|\sv5\C\chem\sv5.i\091510b.B\QC003
33|1_8270STD	|\sv5\C\chem\sv5.i\091010.B\HSL0910
34|1_8270STD	|\sv5\C\chem\sv5.i\091010.B\QC001

35	1_8270STD	\\sv5\c\chem\sv5.i\090910a.B\HSL0909a
36	1_8270STD	\\sv5\C\chem\sv5.i\090910.B\HSL0909
37	1_8270STD	\\sv5\C\chem\sv5.i\090910.B\QC001
38	1_8270STD	\\sv5\C\chem\sv5.i\090810.B\HSL0908
39	1_8270STD	\\sv5\C\chem\sv5.i\090810.B\Primer
40	1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907
41	1_8270STD	\\sv5\C\chem\sv5.i\090710.B\HSL0907
42	1_8270STD	\\sv5\c\chem\sv5.i\090110.B\HSL0901
43	1_8270STD	\\sv5\C\chem\sv5.i\083110.B\HSL0831
44	1_8270STD	\\sv5\c\chem\sv5.i\083010.B\QC001
45	1_8270STD	\\sv5\c\chem\sv5.i\083010.B\HSL0830
46	1_8270STD	\\sv5\C\chem\sv5.i\082710.B\QC001
47	1_8270STD	\\sv5\c\chem\sv5.i\082710.B\HSL0827
48	1_8270STD	\\sv5\C\chem\sv5.i\082610.B\HSL0826
49	1_8270STD	\\sv5\C\chem\sv5.i\082610.B\QC001
50	1_8270STD	\\sv5\C\chem\sv5.i\082510.B\QC001
51	1_8270STD	\\sv5\C\chem\sv5.i\082510.B\HSL0825
52	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823
53	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H
54	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
55	1_8270STD	\\sv5\C\chem\sv5.i\082310A.B\HSL0823A
56	1_8270STD	\\sv5\C\chem\sv5.i\082010.B\HSL0820
57	1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001
58	1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A
59	1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818
60	1_8270STD	\\sv5\C\chem\sv5.i\081710.B\HSL0817D
61	1_8270STD	\\sv5\C\chem\sv5.i\081710.B\HSL0817H

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit: 04-Oct-2010 09:00 onishim
 Compound : 110 Pentachlorophenol
 Mass: 266.00
 Istd Compound: * 4 Phenanthrene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
 Origin: None
 Amt = Rsp/ml
 ml = 0.11930897400000
 RSD: 15.221

Initial Calibration Table

Level	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	9.240	5.00000	5849	9.406	40.000	496356	0.09427104739340
2	9.240	10.00000	10551	9.406	40.000	428440	0.09850620857063
3	9.240	20.00000	30451	9.406	40.000	525834	0.11581982146457
4	9.240	50.00000	67882	9.406	40.000	462722	0.11736118014704
5	9.240	80.00000	126397	9.406	40.000	477777	0.13227614556582
6	9.240	120.00000	215360	9.406	40.000	515607	0.13922748656761
7	9.250	160.00000	293184	9.406	40.000	532284	0.13770092657303

Level	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
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1 9.240 50.000 62906 9.406 40.000 380734 0.13217837125132
+-----+-----+-----+-----+-----+-----+-----+-----+
2 9.240 50.000 67882 9.406 40.000 462722 0.11736118014704
+-----+-----+-----+-----+-----+-----+-----+-----+
| 3 | 9.257 | 50.000 | 111129 | 9.423 | 40.000 | 692643 | 0.12835356742218 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 4 | 9.257 | 50.000 | 88353 | 9.423 | 40.000 | 569627 | 0.12408541027725 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 5 | 9.267 | 50.000 | 65176 | 9.433 | 40.000 | 444572 | 0.11728313973889 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | 9.268 | 50.000 | 60910 | 9.433 | 40.000 | 402268 | 0.12113317489833 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 7 | 9.278 | 50.000 | 51724 | 9.433 | 40.000 | 342388 | 0.12085470285174 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 8 | 9.278 | 50.000 | 37406 | 9.444 | 40.000 | 257561 | 0.11618529202791 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 9 | 9.278 | 50.000 | 56153 | 9.444 | 40.000 | 367144 | 0.12235635064171 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 10 | 9.278 | 50.000 | 49979 | 9.444 | 40.000 | 316244 | 0.12643148960929 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 11 | 9.299 | 50.000 | 89278 | 9.465 | 40.000 | 533339 | 0.13391557714699 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 12 | 9.288 | 50.000 | 102299 | 9.454 | 40.000 | 604130 | 0.13546620760432 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 13 | 9.299 | 50.000 | 74887 | 9.464 | 40.000 | 434948 | 0.13773968382427 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 14 | 9.299 | 50.000 | 61171 | 9.465 | 40.000 | 350214 | 0.13973399121680 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 15 | 9.309 | 50.000 | 72641 | 9.475 | 40.000 | 436116 | 0.13325078648800 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 16 | 9.309 | 50.000 | 99213 | 9.475 | 40.000 | 545533 | 0.14549147347640 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 17 | 9.314 | 50.000 | 56050 | 9.480 | 40.000 | 341600 | 0.13126463700234 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 18 | 9.314 | 50.000 | 67187 | 9.480 | 40.000 | 410196 | 0.13103394474836 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 19 | 9.324 | 50.000 | 90596 | 9.490 | 40.000 | 530756 | 0.13655389670583 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 20 | 9.324 | 50.000 | 32043 | 9.490 | 40.000 | 484990 | 0.05285552279428 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 21 | 9.324 | 50.000 | 22238 | 9.490 | 40.000 | 346959 | 0.05127522272084 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 22 | 9.324 | 50.000 | 81528 | 9.490 | 40.000 | 462218 | 0.14110744280837 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 23 | 9.335 | 50.000 | 103580 | 9.511 | 40.000 | 589949 | 0.14045959905009 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 24 | 9.335 | 50.000 | 72155 | 9.501 | 40.000 | 446339 | 0.12932770831140 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 25 | 9.355 | 50.000 | 91662 | 9.521 | 40.000 | 517550 | 0.14168602067433 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 26 | 9.366 | 50.000 | 67431 | 9.532 | 40.000 | 396847 | 0.13593349578049 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 27 | 9.366 | 50.000 | 71407 | 9.542 | 40.000 | 407176 | 0.14029707055426 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 28 | 9.366 | 50.000 | 49946 | 9.532 | 40.000 | 298933 | 0.13366473423811 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 29 | 9.366 | 50.000 | 58621 | 9.542 | 40.000 | 335623 | 0.13973059057335 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 30 | 9.386 | 50.000 | 53858 | 9.552 | 40.000 | 329730 | 0.13067176174446 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 31 | 9.387 | 50.000 | 69993 | 9.552 | 40.000 | 399673 | 0.14010053218506 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 32 | 9.459 | 50.000 | 87217 | 9.625 | 40.000 | 539077 | 0.12943160253544 |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 33 | 9.459 | 50.000 | 77540 | 9.625 | 40.000 | 458679 | 0.13524054949104 |
+-----+-----+-----+-----+-----+-----+-----+-----+

| 34|	9.470|	50.000|	79232|	9.646|	40.000|	482971|	0.13124100618878|
| 35|	9.480|	50.000|	75075|	9.656|	40.000|	465501|	0.12902227922174|
| 36|	9.480|	50.000|	69872|	9.656|	40.000|	435300|	0.12841167011257|
| 37|	9.490|	50.000|	60626|	9.656|	40.000|	378611|	0.12810193047746|
| 38|	9.490|	50.000|	60476|	9.666|	40.000|	383533|	0.12614507747704|
| 39|	9.490|	50.000|	68275|	9.656|	40.000|	401081|	0.13618196823086|
| 40|	9.490|	50.000|	68275|	9.656|	40.000|	401081|	0.13618196823086|
| 41|	9.490|	50.000|	51783|	9.666|	40.000|	337799|	0.12263624226241|
| 42|	9.501|	50.000|	70205|	9.677|	40.000|	425699|	0.13193359627342|
| 43|	9.511|	50.000|	60939|	9.677|	40.000|	381025|	0.12794751000591|
| 44|	9.501|	50.000|	61157|	9.677|	40.000|	380328|	0.12864054184809|
| 45|	9.500|	50.000|	98266|	9.676|	40.000|	586969|	0.13393007126441|
| 46|	9.500|	50.000|	82460|	9.677|	40.000|	500580|	0.13178313156738|
| 47|	9.511|	50.000|	117721|	9.687|	40.000|	687233|	0.13703765680635|
| 48|	9.511|	50.000|	77582|	9.687|	40.000|	485585|	0.12781613929590|
| 49|	9.511|	50.000|	77449|	9.687|	40.000|	498103|	0.12439033693834|
| 50|	9.511|	50.000|	85917|	9.687|	40.000|	500311|	0.13738174855240|
| 51|	9.521|	50.000|	80098|	9.697|	40.000|	460974|	0.13900653832971|
| 52|	9.521|	50.000|	71155|	9.697|	40.000|	428920|	0.13271472535671|
| 53|	9.521|	50.000|	72603|	9.697|	40.000|	415811|	0.13968461632809|
| 54|	9.526|	50.000|	108254|	9.702|	40.000|	650674|	0.13309768025155|
| 55|	9.568|	50.000|	64139|	9.744|	40.000|	411802|	0.12460162893818|
| 56|	9.578|	50.000|	85309|	9.754|	40.000|	511730|	0.13336564203779|
| 57|	9.599|	50.000|	78595|	9.785|	40.000|	486034|	0.12936543533991|
| 58|	9.609|	50.000|	72755|	9.785|	40.000|	467607|	0.12447204597023|
| 59|	9.609|	50.000|	67958|	9.785|	40.000|	451801|	0.12033262431911|
| 60|	9.609|	50.000|	63635|	9.785|	40.000|	418038|	0.12177840292031|
| Avg|	9.411|	50.000|	72233|	9.581|	40.000|	6967|	0.12849428241810|

| Ind|	Sublist	Calibration File
| 1|	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\HSL1002H
| 2|	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\HSL1002D

3|1_8270STD	|\SV5\C\chem\sv5.i\100110.B\HSL1001	|
4|1_8270STD	|\SV5\C\chem\sv5.i\093010.B\HSL0930	|
5|1_8270STD	|\sv5\c\chem\sv5.i\092910A.B\HSL0929A	|
6|1_8270STD	|\SV5\C\chem\sv5.i\092910.B\HSL0929	|
7|1_8270STD	|\SV5\C\chem\sv5.i\092910.B\QC001	|
8|1_8270STD	|\SV5\C\chem\sv5.i\092810A.B\HSL0928	|
9|1_8270STD	|\SV5\C\chem\sv5.i\092810.B\HSL0928	|
10|1_8270STD	|\SV5\C\chem\sv5.i\092710.B\HSL0927	|
11|1_8270STD	|\SV5\C\chem\sv5.i\092510.B\QC001	|
12|1_8270STD	|\sv5\c\chem\sv5.i\092510.B\HSL0925	|
13|1_8270STD	|\SV5\C\chem\sv5.i\092410.B\QC001	|
14|1_8270STD	|\SV5\C\chem\sv5.i\092410.B\HSL0924	|
15|1_8270STD	|\SV5\C\chem\sv5.i\092310A.B\HSL0923A	|
16|1_8270STD	|\SV5\C\chem\sv5.i\092310A.B\QC001	|
17|1_8270STD	|\SV5\C\chem\sv5.i\092310.B\QC001	|
18|1_8270STD	|\SV5\C\chem\sv5.i\092310.B\HSL0923	|
19|1_8270STD	|\SV5\C\chem\sv5.i\092210.B\HSL0922a	|
20|1_8270STD	|\SV5\C\chem\sv5.i\092210.B\HSL0922	|
21|1_8270STD	|\SV5\C\chem\sv5.i\092210.B\QC001	|
22|1_8270STD	|\SV5\C\chem\sv5.i\092110.B\HSL0921	|
23|1_8270STD	|\SV5\C\chem\sv5.i\092010.B\QC001	|
24|1_8270STD	|\SV5\C\chem\sv5.i\092010.B\HSL0920	|
25|1_8270STD	|\SV5\C\chem\sv5.i\091910a.B\HSL0919a	|
26|1_8270STD	|\SV5\C\chem\sv5.i\091910.B\HSL0919	|
27|1_8270STD	|\SV5\C\chem\sv5.i\091910.B\QC001	|
28|1_8270STD	|\SV5\C\chem\sv5.i\091710.B\HSL0917	|
29|1_8270STD	|\SV5\C\chem\sv5.i\091710.B\QC001	|
30|1_8270STD	|\SV5\C\chem\sv5.i\091510b.B\HSL0915b	|
31|1_8270STD	|\SV5\C\chem\sv5.i\091510b.B\QC003	|
32|1_8270STD	|\sv5\c\chem\sv5.i\091010.B\HSL0910	|
33|1_8270STD	|\SV5\C\chem\sv5.i\091010.B\QC001	|
34|1_8270STD	|\sv5\c\chem\sv5.i\090910a.B\HSL0909a	|
35|1_8270STD	|\SV5\C\chem\sv5.i\090910.B\HSL0909	|

| 36|1_8270STD	|\\sv5\C\chem\sv5.i\090910.B\QC001	|
+-----+	+-----+	+-----+
| 37|1_8270STD	|\\sv5\C\chem\sv5.i\090810.B\HSL0908	|
+-----+	+-----+	+-----+
| 38|1_8270STD	|\\sv5\C\chem\sv5.i\090810.B\Primer	|
+-----+	+-----+	+-----+
| 39|1_8270STD	|\\sv5\C\chem\sv5.i\090710.B\HSL0907	|
+-----+	+-----+	+-----+
| 40|1_8270STD	|\\sv5\C\chem\sv5.i\090710.B\HSL0907	|
+-----+	+-----+	+-----+
| 41|1_8270STD	|\\sv5\C\chem\sv5.i\090110.B\HSL0901	|
+-----+	+-----+	+-----+
| 42|1_8270STD	|\\sv5\C\chem\sv5.i\083110.B\HSL0831	|
+-----+	+-----+	+-----+
| 43|1_8270STD	|\\sv5\C\chem\sv5.i\083010.B\QC001	|
+-----+	+-----+	+-----+
| 44|1_8270STD	|\\sv5\C\chem\sv5.i\083010.B\HSL0830	|
+-----+	+-----+	+-----+
| 45|1_8270STD	|\\sv5\C\chem\sv5.i\082710.B\QC001	|
+-----+	+-----+	+-----+
| 46|1_8270STD	|\\sv5\C\chem\sv5.i\082710.B\HSL0827	|
+-----+	+-----+	+-----+
| 47|1_8270STD	|\\sv5\C\chem\sv5.i\082610.B\HSL0826	|
+-----+	+-----+	+-----+
| 48|1_8270STD	|\\sv5\C\chem\sv5.i\082610.B\QC001	|
+-----+	+-----+	+-----+
| 49|1_8270STD	|\\sv5\C\chem\sv5.i\082510.B\QC001	|
+-----+	+-----+	+-----+
| 50|1_8270STD	|\\sv5\C\chem\sv5.i\082510.B\HSL0825	|
+-----+	+-----+	+-----+
| 51|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823	|
+-----+	+-----+	+-----+
| 52|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823H	|
+-----+	+-----+	+-----+
| 53|1_8270STD	|\\sv5\C\chem\sv5.i\082310B.B\HSL0823D	|
+-----+	+-----+	+-----+
| 54|1_8270STD	|\\sv5\C\chem\sv5.i\082310A.B\HSL0823A	|
+-----+	+-----+	+-----+
| 55|1_8270STD	|\\sv5\C\chem\sv5.i\082010.B\HSL0820	|
+-----+	+-----+	+-----+
| 56|1_8270STD	|\\sv5\C\chem\sv5.i\082010.B\QC001	|
+-----+	+-----+	+-----+
| 57|1_8270STD	|\\sv5\C\chem\sv5.i\081810A.B\HSL0818A	|
+-----+	+-----+	+-----+
| 58|1_8270STD	|\\sv5\C\chem\sv5.i\081810.B\HSL0818	|
+-----+	+-----+	+-----+
| 59|1_8270STD	|\\sv5\C\chem\sv5.i\081710.B\HSL0817D	|
+-----+	+-----+	+-----+
| 60|1_8270STD	|\\sv5\C\chem\sv5.i\081710.B\HSL0817H	|
+-----+	+-----+	+-----+

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6825896	5.000	PASS
Benzidine	0.6244503	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	189907	8.9	20.5	PASS

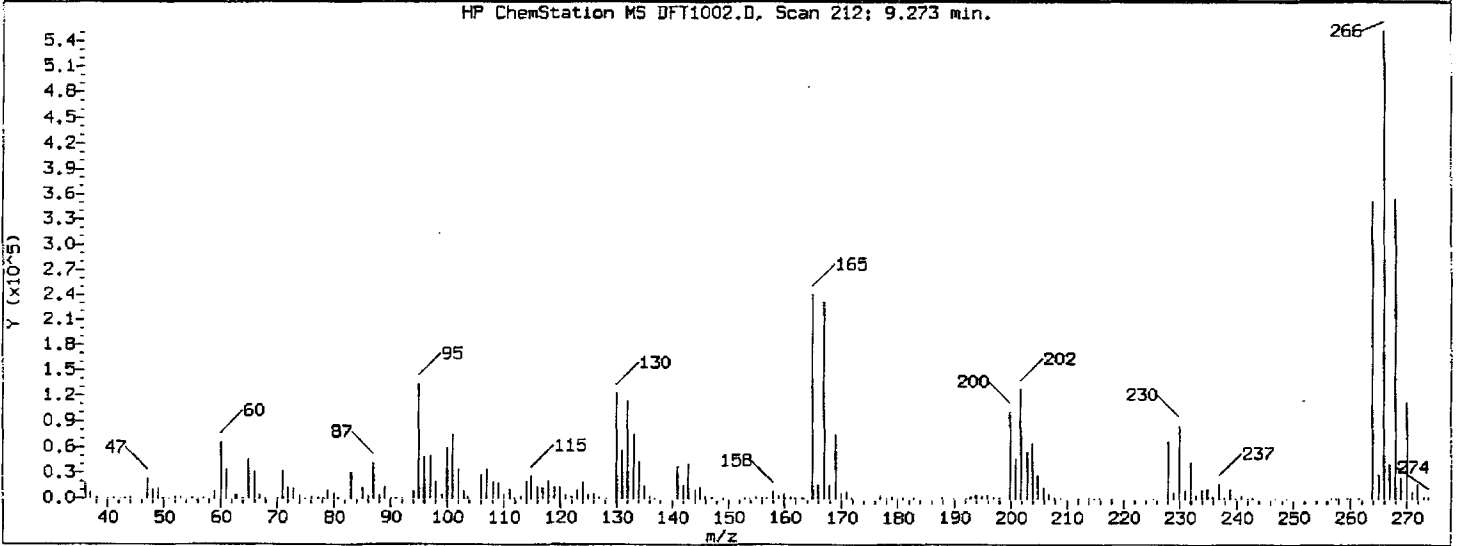
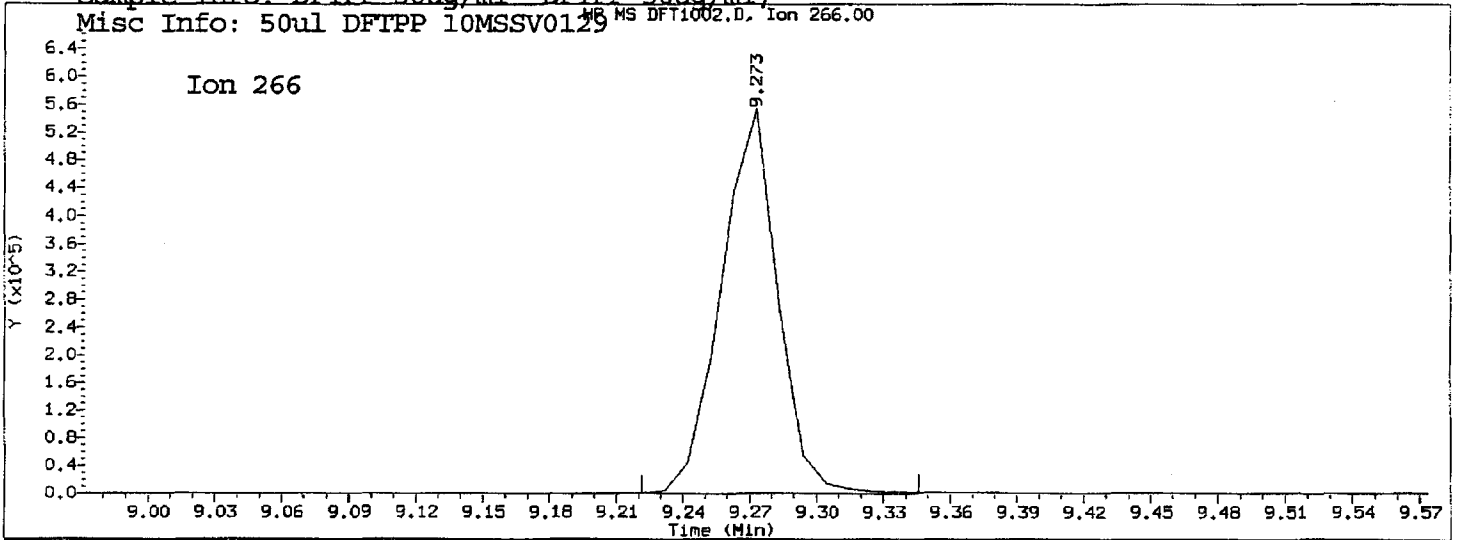
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

 *** PASSED ***

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT1002.D, Ion 266.00



Pentachlorophenol

=====
Exp. RT = 9.387
Found RT = 9.273

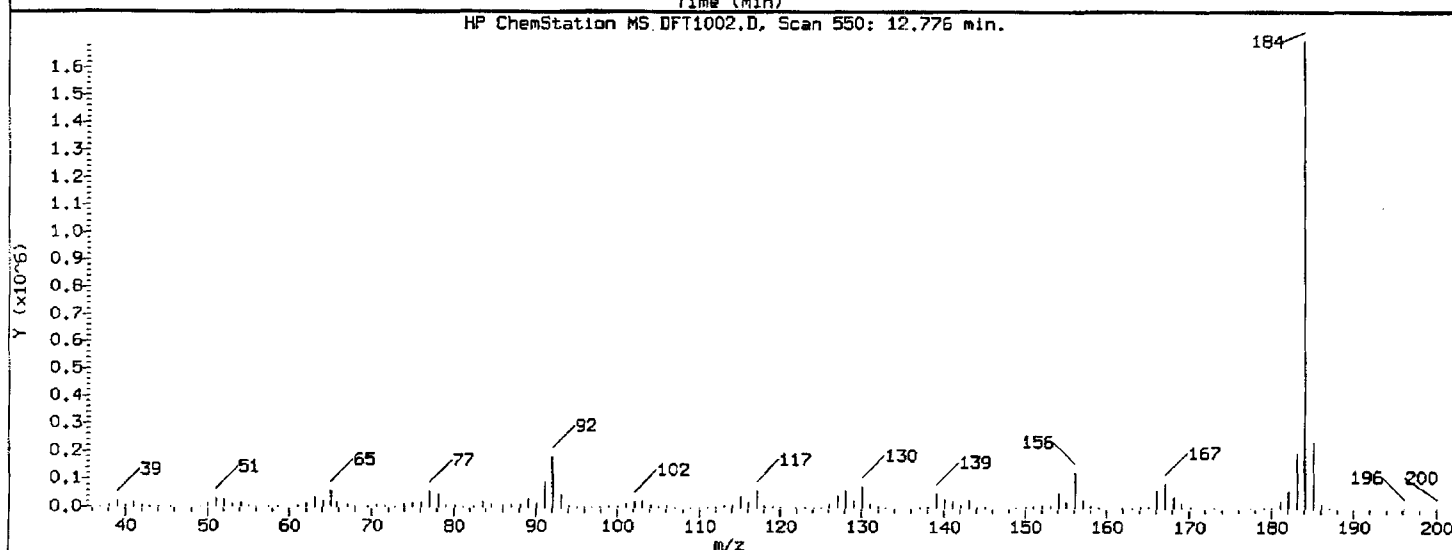
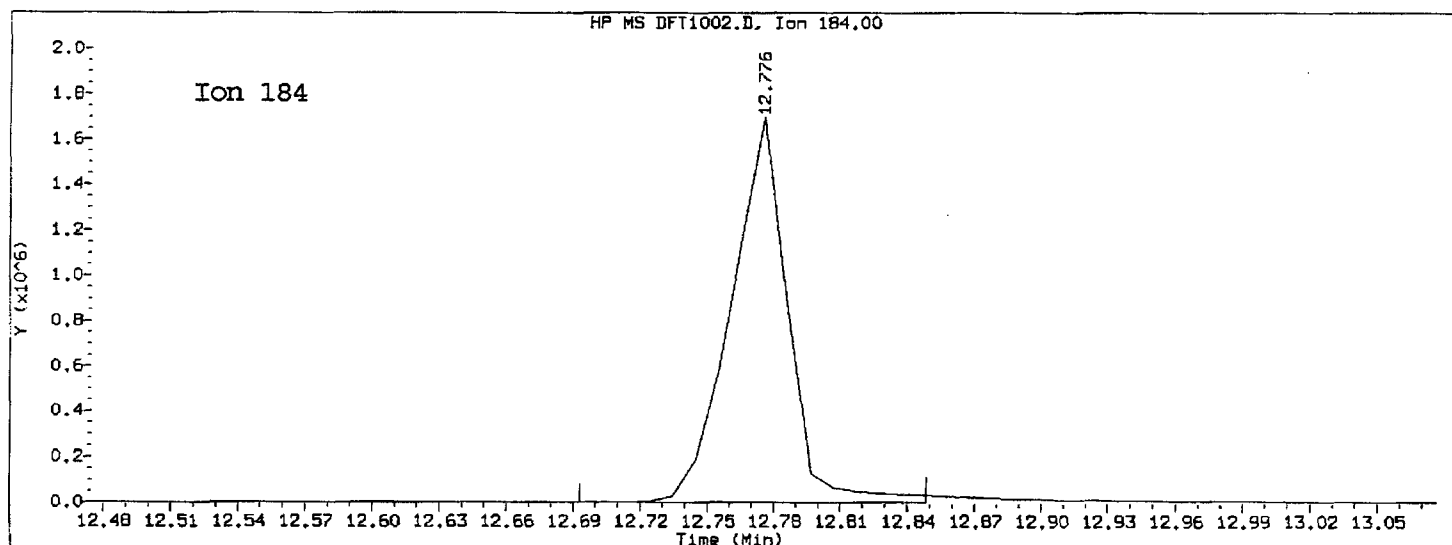
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683 Maximum Allowed = 5.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.911
Found RT = 12.776

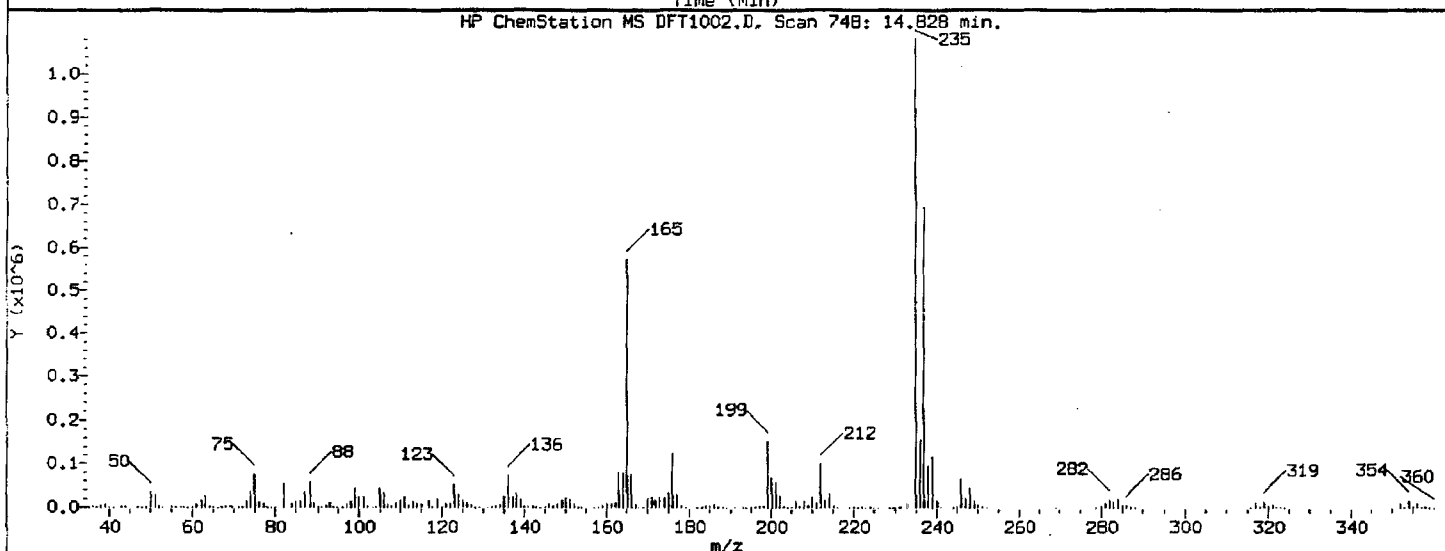
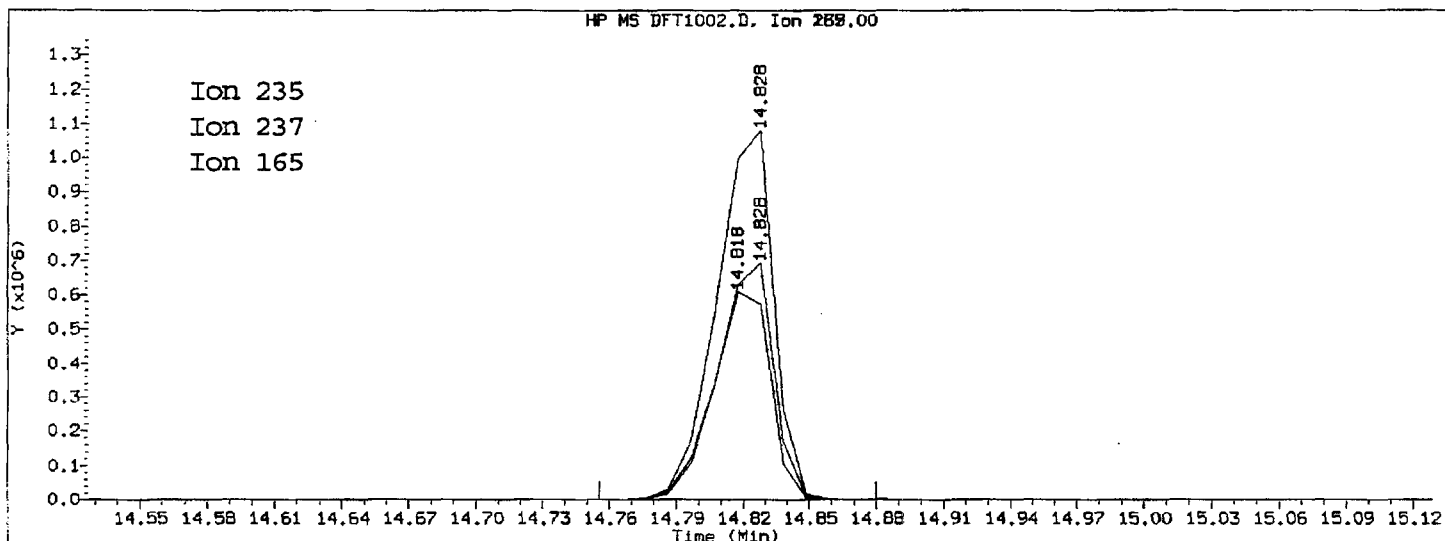
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



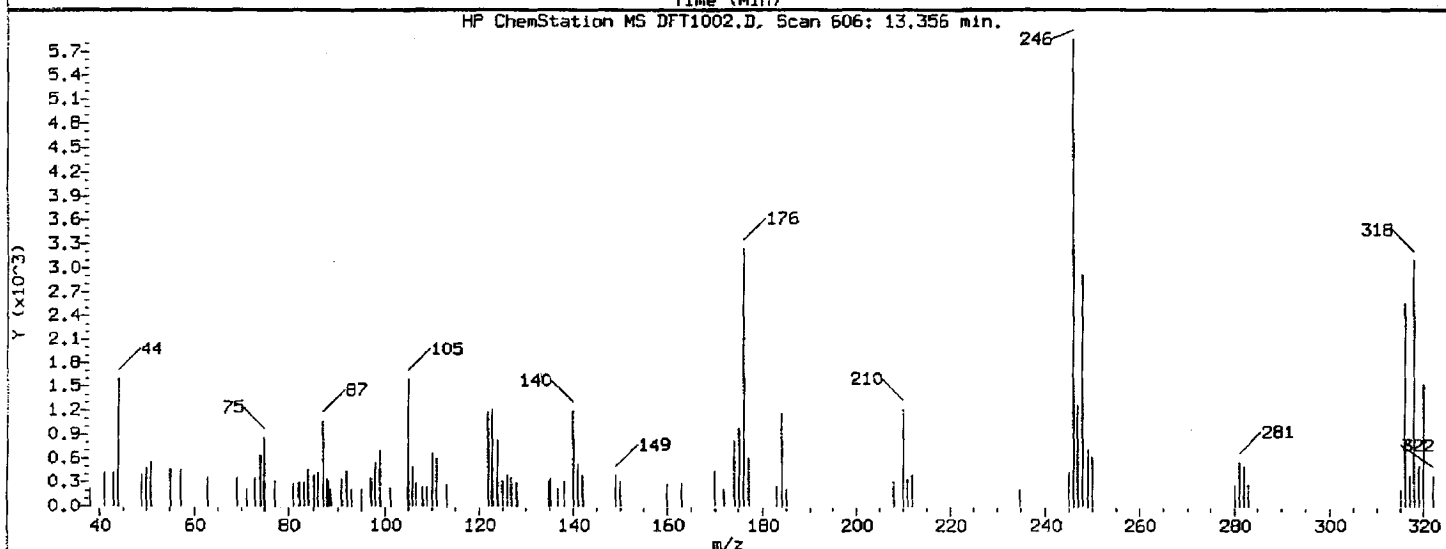
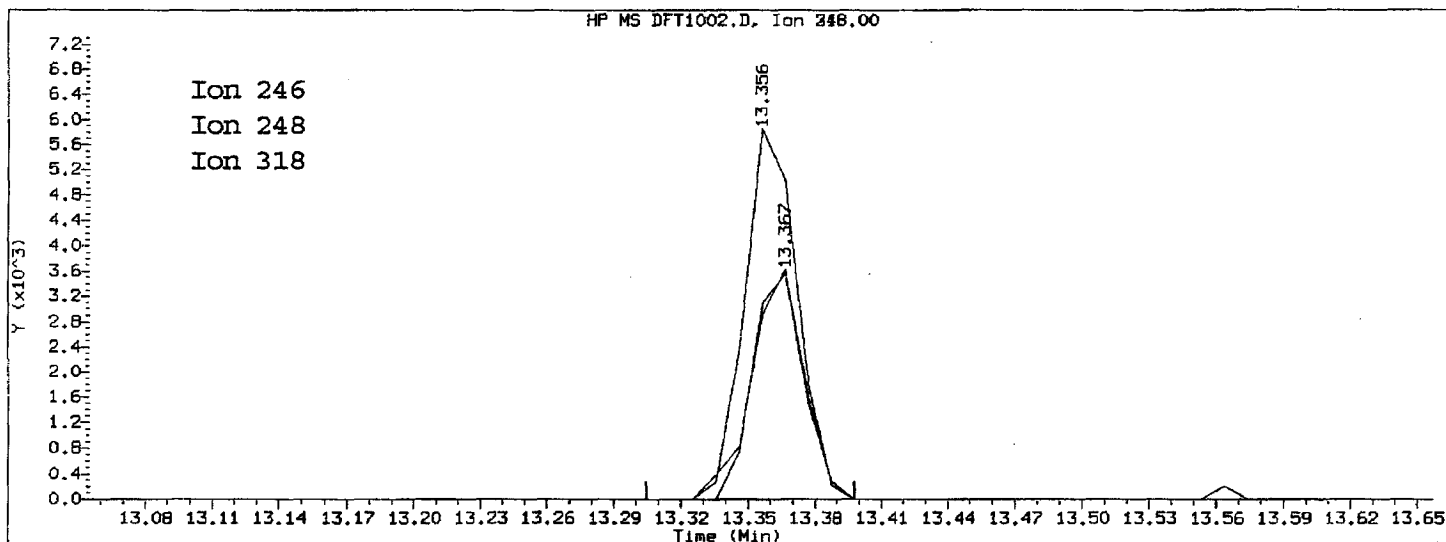
4,4'-DDT

=====
Exp. RT = 14.942
Found RT = 14.828

Mass	Area	Ratio
235	1937042	100.00
237	1226081	63.30
165	1111108	57.36

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



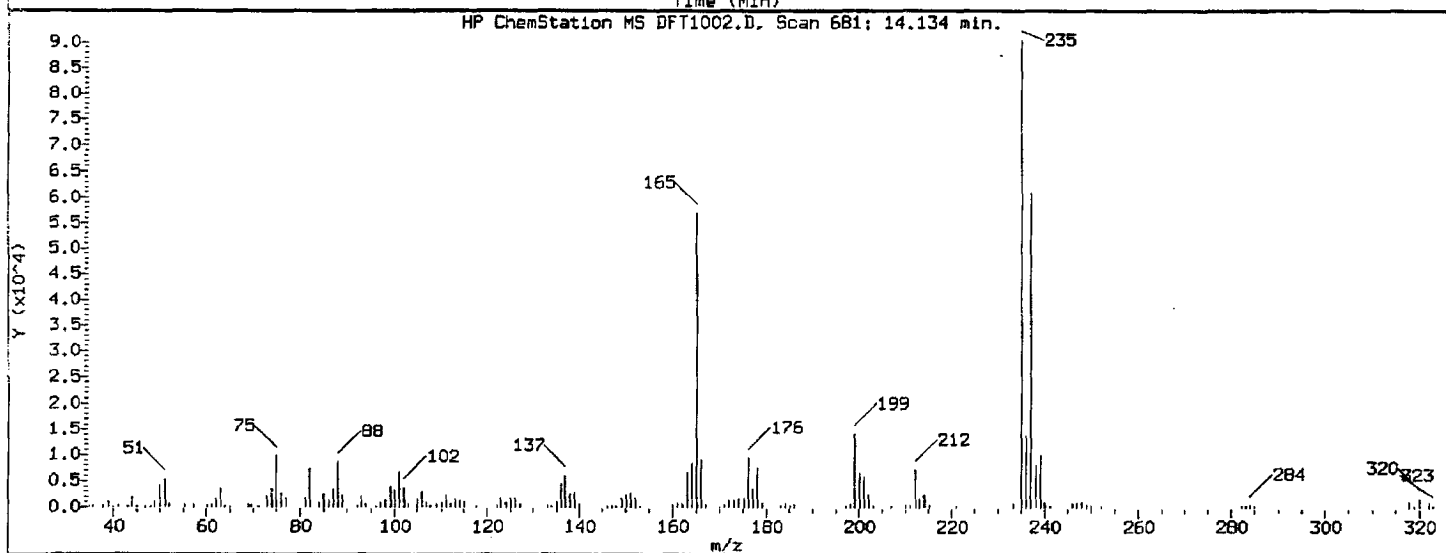
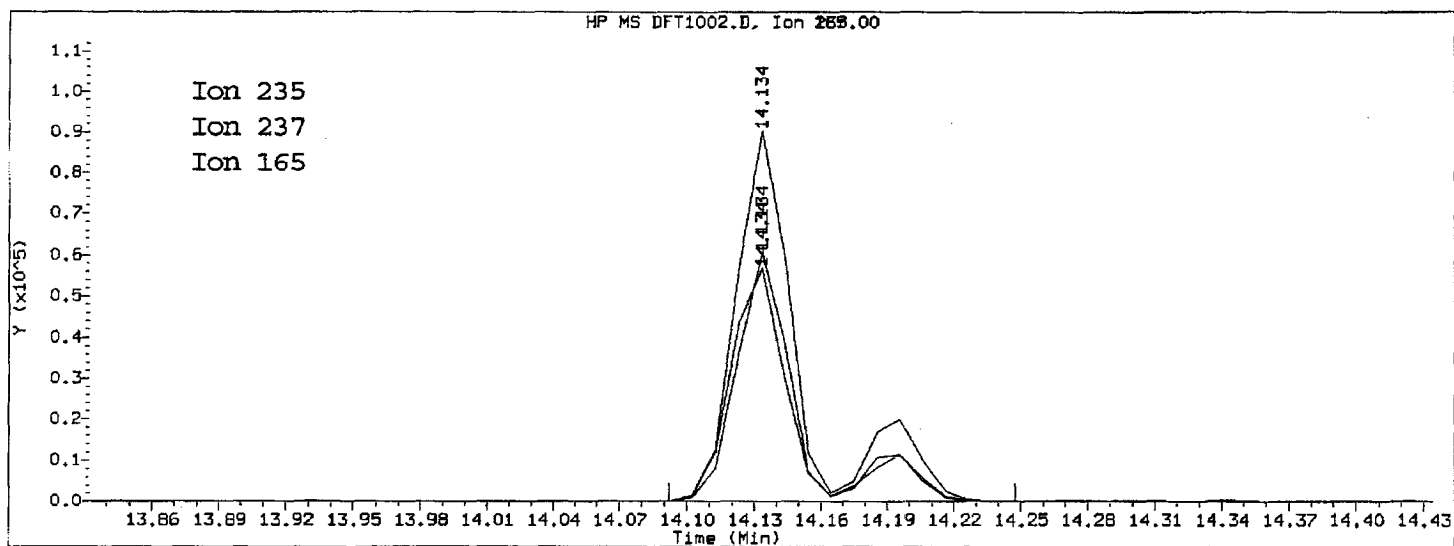
4,4'-DDE

=====
Exp. RT = 13.470
Found RT = 13.356

Mass	Area	Ratio
246	9630	100.00
248	5964	61.93
318	0	0.00

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



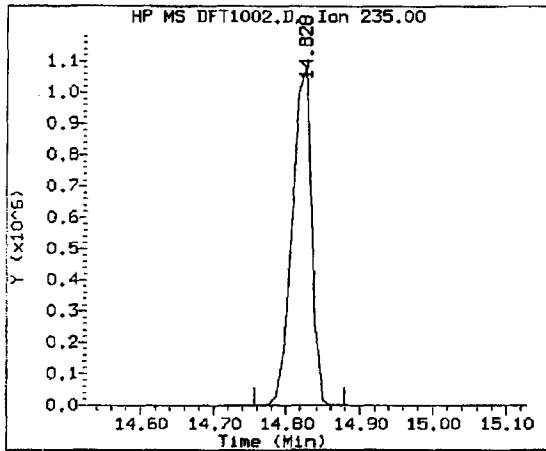
4,4'-DDD

=====

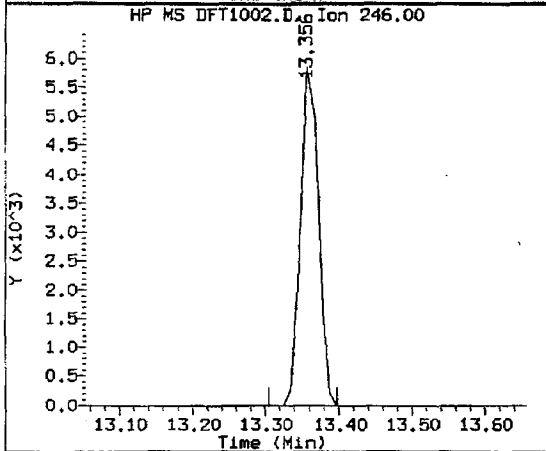
Exp. RT = 14.248

Found RT = 14.134

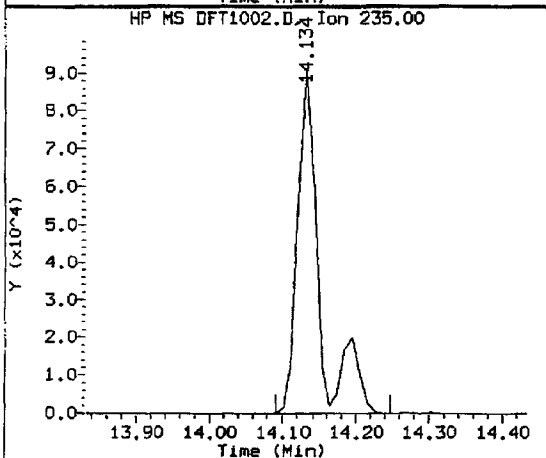
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



Compound: 4,4'-DDT
 Quant Mass: 235
 RT: 14.828
 Area: 1937042



Compound: 4,4'-DDE
 Quant Mass: 246
 RT: 13.356
 Area: 9630



Compound: 4,4'-DDD
 Quant Mass: 235
 RT: 14.134
 Area: 180277

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	189907	8.9	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\100210.B\DFT1002.D
 Lab Smp Id: DFTPP 50ug/ml
 Inj Date : 02-OCT-2010 12:06
 Operator : KT Inst ID: sv5.i
 Smp Info : DFTPP 50ug/ml;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\100210.B\DFTPP.m
 Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 96 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: SV5

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	
1 dftpp					CAS #: 5074-71-5				
0.000	11.201	(0.000)	198	746688			0.00- 100.00	100.00	
0.000	11.201	(0.000)	51	320640			30.00- 80.00	42.94	
0.000	11.201	(0.000)	68	4826			0.00- 2.00	1.62	
0.000	11.201	(0.000)	69	298048			0.00- 0.00	39.92	
0.000	11.201	(0.000)	70	1913			0.00- 2.00	0.64	
0.000	11.201	(0.000)	127	406528			25.00- 75.00	54.44	
0.000	11.201	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00	
0.000	11.201	(0.000)	199	49104			5.00- 9.00	6.58	
0.000	11.201	(0.000)	275	170816			10.00- 30.00	22.88	
0.000	11.201	(0.000)	365	20496			0.75- 0.00	2.74	
0.000	11.201	(0.000)	441	100984			0.01- 99.99	74.22	
0.000	11.201	(0.000)	442	702528			40.00- 110.00	94.09	
0.000	11.201	(0.000)	443	136064			15.00- 24.00	19.37	

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Page 2

Date : 02-OCT-2010 12:06

Client ID:

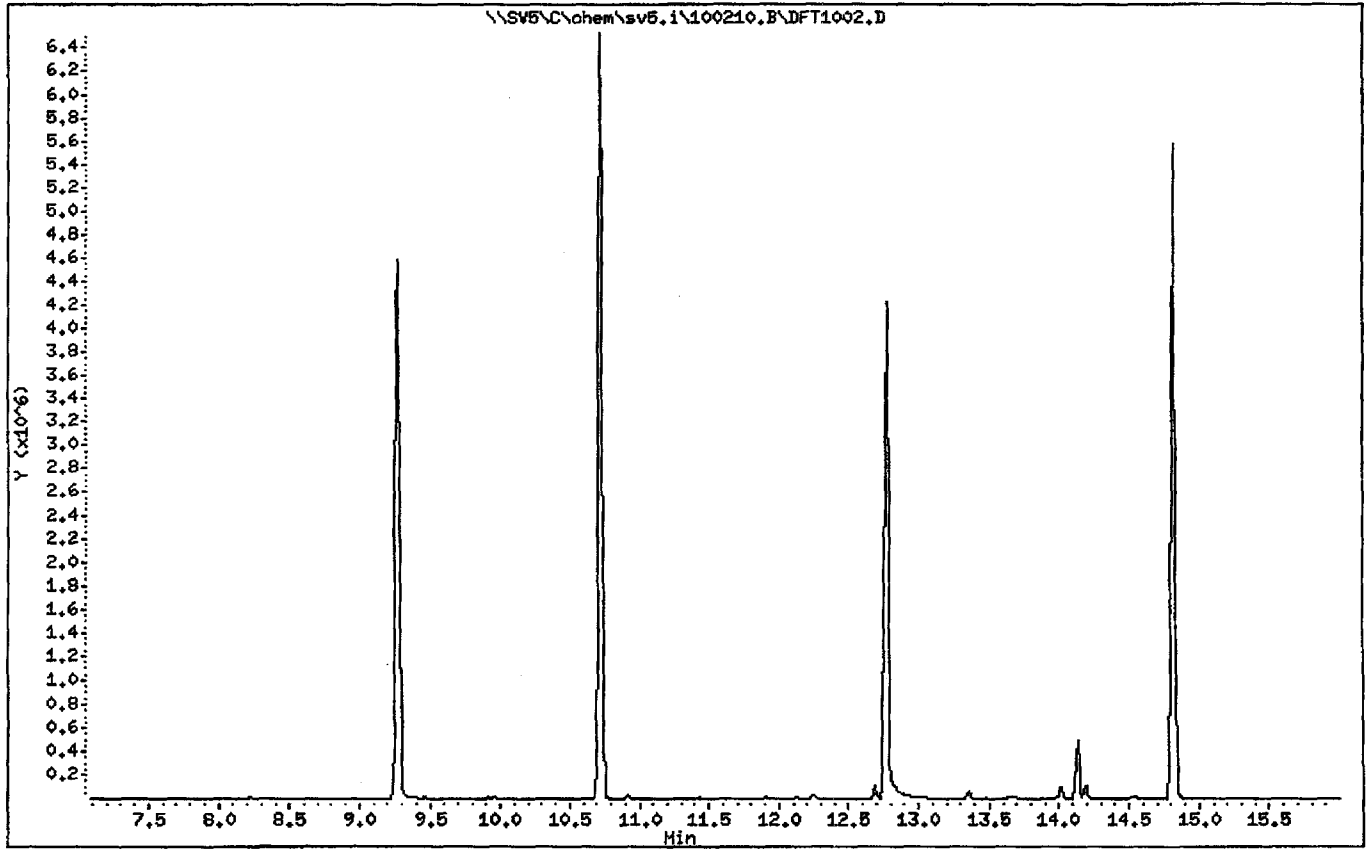
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

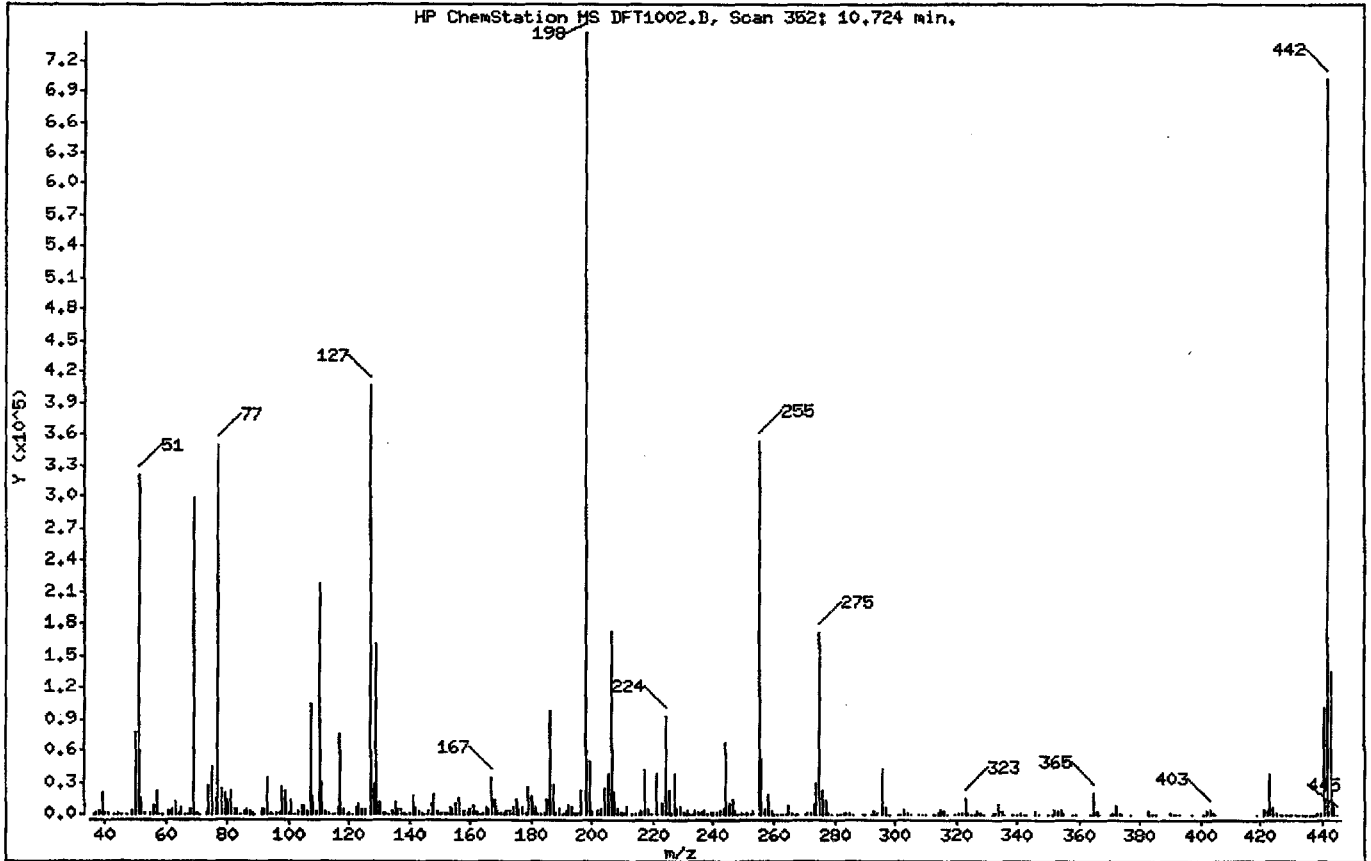
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	42.94
68	Less than 2.00% of mass 69	0.65 (1.62)
69	Mass 69 relative abundance	39.92
70	Less than 2.00% of mass 69	0.26 (0.64)
127	25.00 - 75.00% of mass 198	54.44
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	22.88
365	Greater than 0.75% of mass 198	2.74
441	Present, but less than mass 443	13.52
442	40.00 - 110.00% of mass 198	94.09
443	15.00 - 24.00% of mass 442	18.22 (19.37)

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D
Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.10	203	| 130.00	12809	| 219.20	447	| 321.00	1763
| 37.10	1216	| 131.00	2287	| 221.00	37608	| 322.10	913
| 38.10	3314	| 132.00	1225	| 223.10	9674	| 323.10	16294
| 39.10	21392	| 133.00	620	| 224.10	93432	| 324.10	2245
| 40.00	1076	| 134.00	3794	| 225.10	21544	| 324.80	382
| 41.10	949	| 135.10	11378	| 226.10	1736	| 326.00	507
| 43.10	352	| 136.00	4886	| 227.00	37976	| 327.00	2789
| 44.00	922	| 137.00	5203	| 228.00	4945	| 328.00	1262
| 45.00	428	| 138.00	1265	| 229.00	7848	| 329.10	343
| 47.00	204	| 139.00	791	| 230.00	1024	| 331.90	894
| 49.10	2676	| 140.00	2233	| 231.10	2757	| 333.00	1455
| 50.10	77024	| 141.00	17480	| 232.00	528	| 334.10	9590
| 51.10	320640	| 142.00	7259	| 233.00	641	| 335.00	2774
| 52.10	16189	| 143.00	3921	| 234.00	2909	| 336.00	291
| 53.10	963	| 144.00	1375	| 235.00	2419	| 339.00	369
| 55.00	1815	| 145.10	829	| 236.10	1608	| 340.00	399
| 56.00	8872	| 146.00	3251	| 237.00	3192	| 341.00	2042
| 57.00	22504	| 147.00	9463	| 238.00	581	| 342.10	852
| 58.00	755	| 148.00	18744	| 239.00	1185	| 343.20	220
| 59.10	372	| 149.00	4031	| 240.00	1065	| 346.00	2819
| 61.00	3888	| 150.10	1094	| 241.00	1870	| 346.90	608
| 62.00	4800	| 151.20	2277	| 242.00	3692	| 350.30	205
| 63.10	11199	| 152.10	1506	| 243.10	4924	| 351.00	283
| 64.10	1448	| 153.00	6113	| 244.10	66488	| 352.00	5049
| 65.10	6509	| 154.00	5445	| 245.10	9865	| 353.10	3110
| 66.00	499	| 155.00	10151	| 246.00	14573	| 354.00	5432
| 67.10	461	| 156.10	14866	| 247.00	3022	| 355.00	1087
| 68.00	4826	| 157.10	3676	| 248.10	618	| 358.00	241
| 69.00	298048	| 158.10	3734	| 249.00	2441	| 359.00	574
| 70.10	1913	| 159.00	2313	| 250.00	627	| 363.50	249
| 71.10	410	| 160.00	5246	| 250.90	1000	| 365.00	20496
| 73.10	2021	| 161.10	8666	| 252.00	756	| 366.00	3166
| 74.00	28000	| 162.00	2863	| 253.10	2603	| 367.00	225
| 75.00	45304	| 163.10	562	| 255.00	353024	| 370.10	477
| 76.10	15795	| 164.00	1067	| 256.00	51440	| 370.90	1541

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D
 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
 Location of Maximum: 198.00
 Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 77.10	349952	| 165.00	6962	| 257.00	4474	| 372.10	8489
| 78.10	23464	| 166.00	5717	| 258.00	19504	| 373.10	1814
| 79.00	20048	| 167.00	33648	| 259.10	3095	| 373.80	348
| 80.00	14146	| 168.00	13682	| 260.00	645	| 377.10	263
| 81.00	22008	| 169.00	2802	| 261.10	797	| 383.00	2624
| 82.00	5822	| 170.00	1014	| 262.20	249	| 383.90	598
| 83.00	5093	| 171.00	1339	| 263.00	269	| 385.00	289
| 84.00	814	| 172.00	3224	| 264.10	532	| 390.00	1367
| 85.00	3848	| 173.00	4109	| 265.00	7904	| 391.00	754
| 86.00	5985	| 174.00	7189	| 266.00	1181	| 392.10	664
| 87.00	2652	| 175.10	13638	| 267.20	204	| 393.20	281
| 88.00	1078	| 176.10	4293	| 267.60	232	| 397.00	230
| 89.00	472	| 177.00	6577	| 270.00	489	| 400.90	335
| 91.00	5074	| 178.10	1972	| 271.00	901	| 402.00	3464
| 92.00	5292	| 179.00	25912	| 272.10	1129	| 403.00	5568
| 93.00	34848	| 180.00	16984	| 273.00	10963	| 404.10	1777
| 94.00	2386	| 181.00	7182	| 274.00	30032	| 405.00	292
| 95.00	749	| 182.00	1363	| 275.00	170816	| 418.90	259
| 96.00	1660	| 183.00	559	| 276.10	22944	| 421.00	5400
| 97.10	1007	| 184.10	2227	| 277.00	13493	| 422.00	4183
| 98.00	25944	| 185.10	13301	| 278.10	2251	| 423.00	37592
| 99.00	21688	| 186.00	97584	| 279.00	648	| 424.00	6802
| 100.00	1844	| 187.10	27792	| 281.10	266	| 425.00	930
| 101.00	13609	| 188.10	2556	| 282.00	217	| 426.50	251
| 102.10	646	| 189.00	5094	| 283.00	1957	| 427.30	338
| 103.00	3748	| 189.90	756	| 284.00	1097	| 428.40	200
| 104.00	8390	| 191.10	2995	| 285.10	2569	| 429.20	300
| 105.00	8359	| 192.00	7909	| 286.10	444	| 430.20	272
| 106.10	3007	| 193.00	7605	| 289.00	691	| 431.10	404
| 107.00	104896	| 194.10	1998	| 290.10	589	| 431.50	324
| 108.00	17616	| 195.10	1331	| 292.10	763	| 432.20	298
| 109.00	3545	| 196.00	22448	| 293.00	3141	| 432.50	326
| 110.00	218112	| 198.00	746688	| 294.10	1275	| 433.30	317
| 111.00	30736	| 199.00	49104	| 296.00	42616	| 433.70	342
| 112.00	4281	| 200.00	4038	| 297.00	6196	| 434.30	362

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D
Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 113.00	1310	| 201.60	4029	| 298.00	465	| 434.90	650
| 114.40	467	| 203.00	4788	| 301.00	504	| 435.90	530
| 115.00	646	| 204.00	23416	| 302.00	695	| 436.50	586
| 116.10	6327	| 205.00	38288	| 303.10	5810	| 436.90	846
| 117.00	75520	| 206.10	172352	| 304.00	2635	| 437.50	828
| 118.00	5507	| 207.10	21328	| 305.10	290	| 438.20	1136
| 119.00	839	| 208.00	5487	| 308.00	764	| 439.30	1287
| 120.10	1180	| 209.00	2186	| 309.10	446	| 441.00	100984
| 121.00	807	| 210.00	2002	| 310.00	839	| 442.00	702528
| 122.00	6408	| 211.10	7473	| 312.20	271	| 443.00	136064
| 123.00	10302	| 213.00	410	| 312.90	292	| 444.00	12344
| 124.00	4600	| 214.10	372	| 314.00	2431	| 445.10	689
| 125.00	4447	| 215.10	1837	| 315.00	5363		
| 127.00	406528	| 216.00	3226	| 316.00	2900		
| 128.00	28392	| 217.00	41648	| 317.10	363		
| 129.00	161024	| 218.00	5388	| 319.80	287		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D
 Lab Smp Id: HSL_005 ug/ml CS-1 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 12:27
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_005 ug/ml CS-1;1;;1;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0307;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152		3.955	3.955	(1.000)	141539	40.0000	(Q)
* 2 Naphthalene-d8	136		5.374	5.374	(1.000)	605687	40.0000	
* 3 Acenaphthene-d10	164		7.468	7.468	(1.000)	321839	40.0000	
* 4 Phenanthrene-d10	188		9.406	9.405	(1.000)	496356	40.0000	
* 5 Chrysene-d12	240		13.779	13.779	(1.000)	453007	40.0000	
* 6 Perylene-d12	264		16.162	16.162	(1.000)	445119	40.0000	
\$ 7 2-Fluorophenol	112		2.742	2.732	(0.693)	25566	5.00000	5.124
\$ 8 Phenol-d5	99		3.613	3.613	(0.914)	30471	5.00000	4.857
\$ 9 2-Chlorophenol-d4	132		3.758	3.758	(0.950)	26144	5.00000	4.745
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	16945	5.00000	4.861
\$ 11 Nitrobenzene-d5	82		4.576	4.576	(0.852)	25006	5.00000	4.874 (M)
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	51695	5.00000	4.986
\$ 13 2,4,6-Tribromophenol	330		8.473	8.473	(1.135)	6048	5.00000	4.325
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	44456	5.00000	4.982
15 N-Nitrosodimethylamine	74		1.716	1.706	(0.434)	16436	5.00000	5.040 (q)
16 Pyridine	79		1.737	1.726	(0.439)	29567	5.00000	5.422 (q)
23 Aniline	93		3.654	3.654	(0.924)	39064	5.00000	4.892 (Q)
24 Phenol	94		3.623	3.623	(0.916)	36112	5.00000	5.009 (Q)
26 Bis(2-chloroethyl) ether	93		3.716	3.716	(0.940)	26067	5.00000	5.157
27 2-Chlorophenol	128		3.768	3.768	(0.953)	26910	5.00000	4.863
28 1,3-Dichlorobenzene	146		3.923	3.923	(0.992)	29883	5.00000	4.958
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	31337	5.00000	4.972
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	17983	5.00000	4.835
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	28663	5.00000	4.947
32 2-Methylphenol	108		4.255	4.255	(1.076)	24914	5.00000	4.923
33 2,2'-oxybis(1-Chloropropane)	45		4.297	4.297	(1.086)	40622	5.00000	5.049
34 4-Methylphenol	108		4.421	4.421	(1.118)	26292	5.00000	4.891
36 Hexachloroethane	117		4.504	4.504	(1.139)	10779	5.00000	5.024
37 N-Nitrosodipropylamine	70		4.442	4.442	(1.123)	16719	5.00000	4.670
42 Nitrobenzene	77		4.597	4.597	(0.855)	24875	5.00000	4.960
44 Isophorone	82		4.856	4.856	(0.904)	48024	5.00000	4.980
45 2-Nitrophenol	139		4.960	4.960	(0.923)	14088	5.00000	4.735
46 2,4-Dimethylphenol	107		5.012	5.012	(0.933)	26089	5.00000	4.935

10-7-10

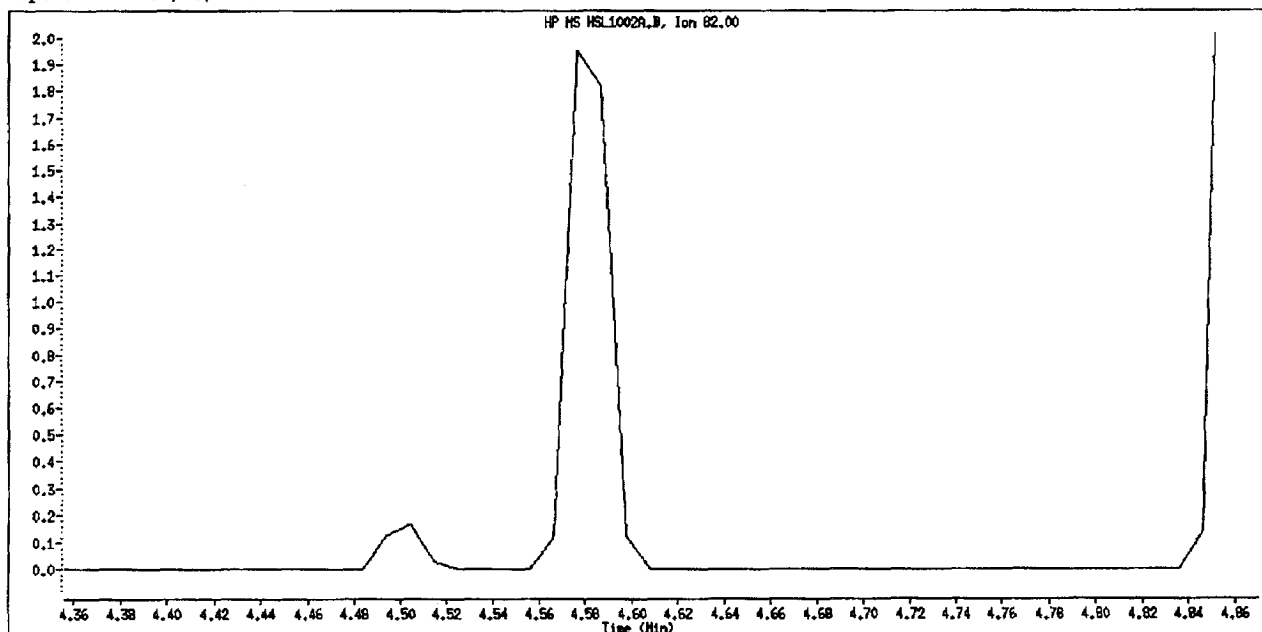
Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93		5.126	5.126	(0.954)	31152	5.00000	5.288
49 2,4-Dichlorophenol	162		5.229	5.229	(0.973)	19256	5.00000	4.708
50 Benzoic Acid	122		5.084	5.115	(0.946)	12679	5.00000	4.333
51 1,2,4-Trichlorobenzene	180		5.322	5.322	(0.990)	22282	5.00000	5.032
52 Naphthalene	128		5.395	5.395	(1.004)	83236	5.00000	4.977
54 4-Chloroaniline	127		5.488	5.488	(1.021)	30853	5.00000	4.707
57 Hexachlorobutadiene	225		5.613	5.613	(1.044)	10823	5.00000	4.994
60 4-Chloro-3-Methylphenol	107		6.069	6.069	(1.129)	22205	5.00000	4.862
63 2-Methylnaphthalene	142		6.203	6.203	(1.154)	51849	5.00000	4.936
66 Hexachlorocyclopentadiene	237		6.483	6.483	(0.868)	10813	5.00000	4.503
69 2,4,6-Trichlorophenol	196		6.576	6.576	(0.881)	12546	5.00000	4.886
70 2,4,5-Trichlorophenol	196		6.628	6.628	(0.888)	12400	5.00000	4.483
71 2-Chloronaphthalene	162		6.784	6.784	(0.908)	45713	5.00000	5.047
73 2-Nitroaniline	65		6.949	6.949	(0.931)	12703	5.00000	4.627
76 Dimethylphthalate	163		7.219	7.229	(0.967)	49639	5.00000	4.760
77 Acenaphthylene	152		7.281	7.281	(0.975)	75041	5.00000	4.758
79 2,6-Dinitrotoluene	165		7.291	7.302	(0.976)	11404	5.00000	4.694 (QM)
80 3-Nitroaniline	138		7.447	7.447	(0.997)	14226	5.00000	4.691 (Q)
81 Acenaphthene	153		7.509	7.509	(1.006)	50639	5.00000	5.044
82 2,4-Dinitrophenol	184		7.571	7.572	(1.014)	4083	5.00000	6.945 (q)
83 Dibenzofuran	168		7.696	7.706	(1.031)	63477	5.00000	4.764
84 4-Nitrophenol	109		7.675	7.675	(1.028)	5114	5.00000	4.065 (Q)
86 2,4-Dinitrotoluene	165		7.768	7.768	(1.040)	13823	5.00000	4.335 (q)
91 Fluorene	166		8.131	8.131	(1.089)	54136	5.00000	4.906
92 Diethylphthalate	149		8.100	8.100	(1.085)	49177	5.00000	4.606
93 4-Chlorophenyl-phenylether	204		8.152	8.152	(1.092)	22112	5.00000	4.820
94 4-Nitroaniline	138		8.214	8.214	(1.100)	13415	5.00000	4.463
97 4,6-Dinitro-2-methylphenol	198		8.276	8.276	(0.880)	5780	5.00000	7.325 (q)
98 N-Nitrosodiphenylamine	169		8.317	8.317	(0.884)	41998	5.86000	5.582
100 Azobenzene	77		8.348	8.348	(0.888)	48101	5.00000	4.928
101 4-Bromophenyl-phenylether	248		8.794	8.794	(0.935)	11766	5.00000	4.856
108 Hexachlorobenzene	284		8.981	8.981	(0.955)	14244	5.00000	5.264
110 Pentachlorophenol	266		9.240	9.240	(0.982)	5849	5.00000	7.264
114 Phenanthrene	178		9.437	9.437	(1.003)	80873	5.00000	5.169
115 Anthracene	178		9.499	9.499	(1.010)	77577	5.00000	4.963
118 Carbazole	167		9.768	9.768	(1.039)	70241	5.00000	4.920
120 Di-n-Butylphthalate	149		10.463	10.463	(1.112)	79722	5.00000	4.641
126 Fluoranthene	202		11.302	11.302	(1.202)	64427	5.00000	4.596
127 Benzidine	184		11.571	11.571	(0.840)	44257	5.00000	4.822
128 Pyrene	202		11.665	11.665	(0.847)	71230	5.00000	5.030
134 3,3'-dimethylbenzidine	212		12.867	12.867	(0.934)	37074	5.00000	4.574
136 Butylbenzylphthalate	149		12.991	12.991	(0.943)	36798	5.00000	5.185
138 Benzo(a)Anthracene	228		13.758	13.758	(0.998)	62384	5.00000	5.170
139 Chrysene	228		13.820	13.831	(1.003)	59618	5.00000	4.830
140 3,3'-Dichlorobenzidine	252		13.799	13.799	(1.002)	22168	5.00000	4.870
141 bis(2-ethylhexyl)Phthalate	149		14.110	14.110	(1.024)	51997	5.00000	5.319
142 Di-n-octylphthalate	149		15.157	15.167	(1.100)	76353	5.00000	4.886
144 Benzo(b)fluoranthene	252		15.572	15.582	(0.963)	45075	5.00000	4.473 (Q)
145 Benzo(k)fluoranthene	252		15.613	15.623	(0.966)	68403	5.00000	5.288 (q)
147 Benzo(e)pyrene	252		15.996	16.007	(0.990)	50295	5.00000	4.786
148 Benzo(a)pyrene	252		16.069	16.079	(0.994)	54694	5.00000	4.788
151 Indeno(1,2,3-cd)pyrene	276		17.789	17.800	(1.101)	41053	5.00000	4.443
152 Dibenzo(a,h)anthracene	278		17.841	17.841	(1.104)	49018	5.00000	4.749
153 Benzo(g,h,i)perylene	276		18.224	18.235	(1.128)	53428	5.00000	4.781

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					113478	5.00000	4.931(A)

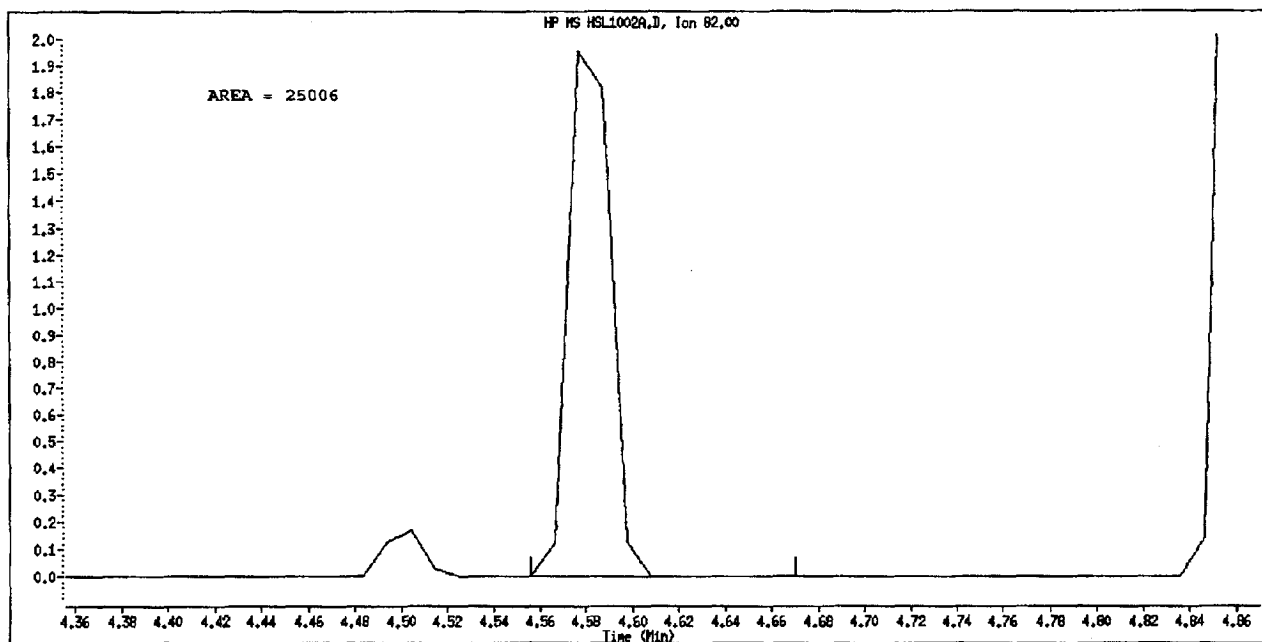
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
Instrument ID: sv5.1
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



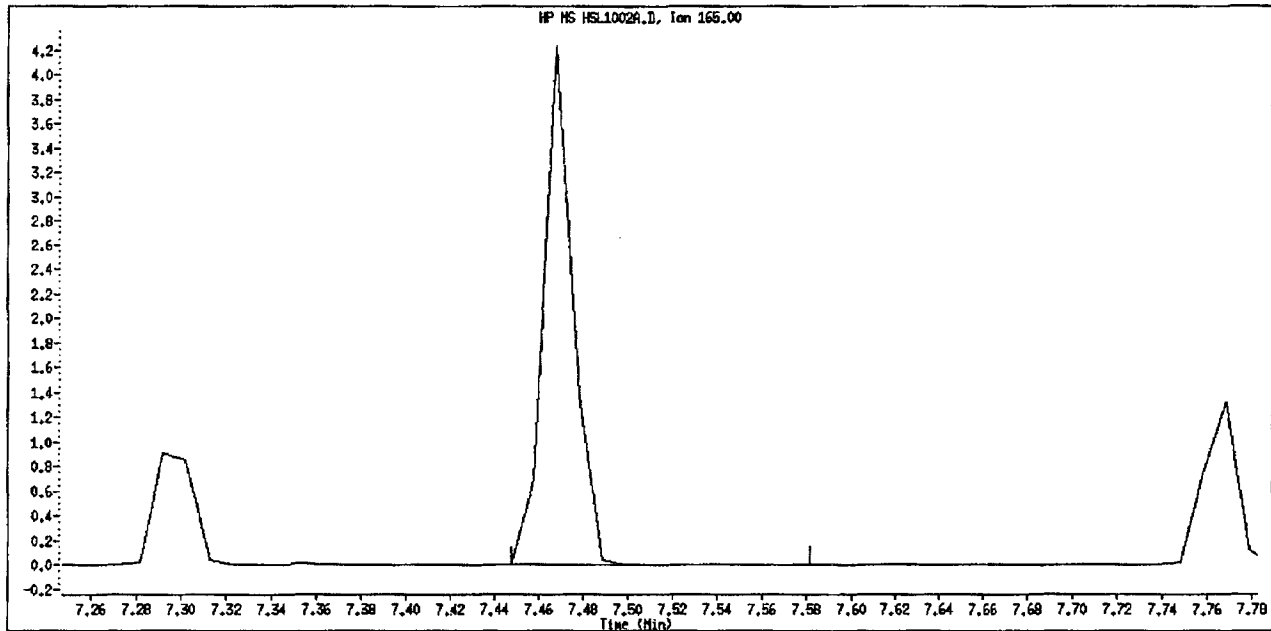
Original Integration



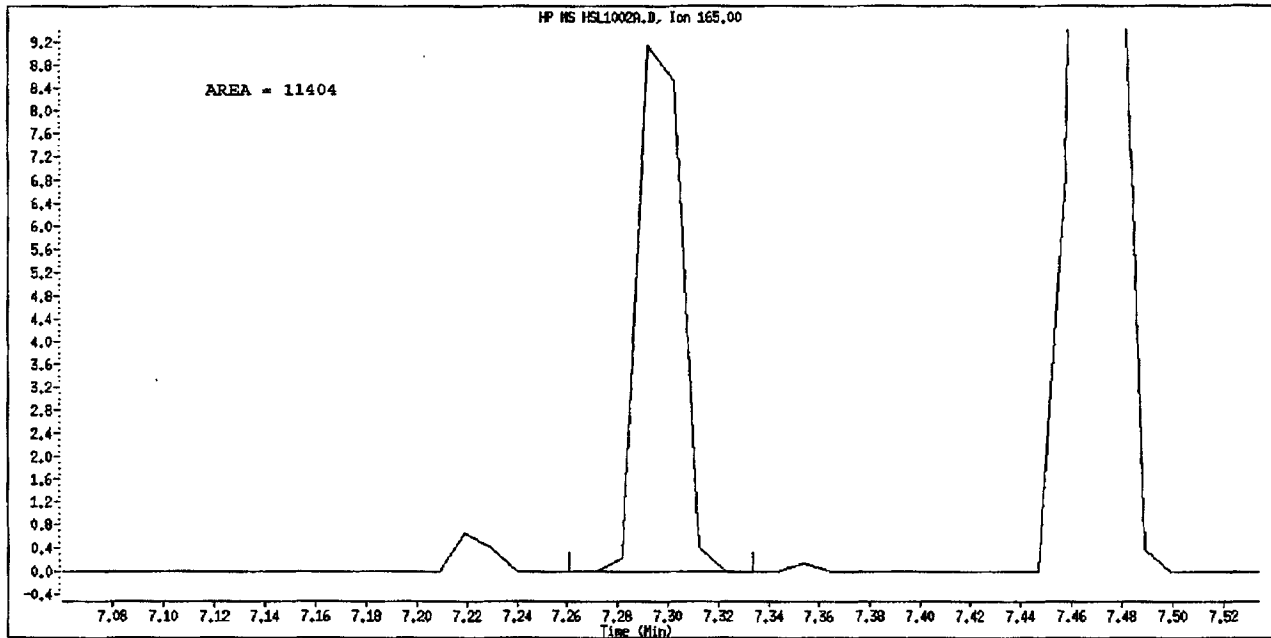
Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 12:27
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 005 ug/ml CS-1;1;;1;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0307;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
								CAL-AMT (NG)	ON-COL (NG)	
* 1 1,4-Dichlorobenzene-d4	152			3.955	3.955	(1.000)	141539	40.0000	(Q)	
* 2 Naphthalene-d8	136			5.374	5.374	(1.000)	605687	40.0000		
* 3 Acenaphthene-d10	164			7.468	7.468	(1.000)	321839	40.0000		
* 4 Phenanthrene-d10	188			9.406	9.405	(1.000)	496356	40.0000		
* 5 Chrysene-d12	240			13.779	13.779	(1.000)	453007	40.0000		
* 6 Perylene-d12	264			16.162	16.162	(1.000)	445119	40.0000		
\$ 7 2-Fluorophenol	112			2.742	2.732	(0.693)	25566	5.00000	4.894	
\$ 8 Phenol-d5	99			3.613	3.613	(0.914)	30471	5.00000	4.587	
\$ 9 2-Chlorophenol-d4	132			3.758	3.758	(0.950)	26144	5.00000	4.616	
\$ 10 1,2-Dichlorobenzene-d4	152			4.162	4.162	(1.052)	16945	5.00000	4.793	
\$ 11 Nitrobenzene-d5	82			Compound Not Detected.						
\$ 12 2-Fluorobiphenyl	172			6.680	6.680	(0.895)	51695	5.00000	5.015	
\$ 13 2,4,6-Tribromophenol	330			8.473	8.473	(1.135)	6048	5.00000	4.760	
\$ 14 Terphenyl-d14	244			12.017	12.017	(0.872)	44456	5.00000	5.032	
15 N-Nitrosodimethylamine	74			1.716	1.706	(0.434)	16436	5.00000	4.767 (q)	
16 Pyridine	79			1.737	1.726	(0.439)	29567	5.00000	5.146	
23 Aniline	93			3.654	3.654	(0.924)	39064	5.00000	4.689 (Q)	
24 Phenol	94			3.623	3.623	(0.916)	36112	5.00000	5.111 (Q)	
26 Bis(2-chloroethyl) ether	93			3.716	3.716	(0.940)	26067	5.00000	4.856	
27 2-Chlorophenol	128			3.768	3.768	(0.953)	26910	5.00000	4.813	
28 1,3-Dichlorobenzene	146			3.923	3.923	(0.992)	29883	5.00000	4.837	
29 1,4-Dichlorobenzene	146			3.975	3.975	(1.005)	31337	5.00000	5.017	
30 Benzyl Alcohol	108			4.120	4.120	(1.042)	17983	5.00000	4.681	
31 1,2-Dichlorobenzene	146			4.172	4.172	(1.055)	28663	5.00000	4.842	
32 2-Methylphenol	108			4.255	4.255	(1.076)	24914	5.00000	4.770	
33 2,2'-oxybis(1-Chloropropane)	45			4.297	4.297	(1.086)	40622	5.00000	4.077	
34 4-Methylphenol	108			4.421	4.421	(1.118)	26292	5.00000	4.723	
36 Hexachloroethane	117			4.504	4.504	(1.139)	10779	5.00000	4.891	
37 N-Nitrosodipropylamine	70			4.442	4.442	(1.123)	16719	5.00000	4.290	
42 Nitrobenzene	77			4.597	4.597	(0.855)	24875	5.00000	4.659	
44 Isophorone	82			4.856	4.856	(0.904)	48024	5.00000	4.744	
45 2-Nitrophenol	139			4.960	4.960	(0.923)	14088	5.00000	4.833	
46 2,4-Dimethylphenol	107			5.012	5.012	(0.933)	26089	5.00000	4.820	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	31152	5.00000	5.169
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.834
50 Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.202
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	22282	5.00000	5.160
52 Naphthalene	128	5.395	5.395	(1.004)	83236	5.00000	4.937
54 4-Chloroaniline	127	5.488	5.488	(1.021)	30853	5.00000	4.652
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	10823	5.00000	5.267
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	22205	5.00000	4.844
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	51849	5.00000	5.040
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	10813	5.00000	4.405
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	12546	5.00000	5.149
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	12400	5.00000	4.633
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	45713	5.00000	5.066
73 2-Nitroaniline	65	6.949	6.949	(0.931)	12703	5.00000	4.204
76 Dimethylphthalate	163	7.219	7.229	(0.967)	49639	5.00000	4.763
77 Acenaphthylene	152	7.281	7.281	(0.975)	75041	5.00000	4.757
79 2,6-Dinitrotoluene	165	7.468	7.302	(1.000)	39415	5.00000	16.89 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	14226	5.00000	4.597 (Q)
81 Acenaphthene	153	7.509	7.509	(1.006)	50639	5.00000	5.038
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	4083	5.00000	5.740 (q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	63477	5.00000	4.780
84 4-Nitrophenol	109	7.675	7.675	(1.028)	5114	5.00000	3.785 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	13823	5.00000	4.422 (q)
91 Fluorene	166	8.131	8.131	(1.089)	54136	5.00000	4.976
92 Diethylphthalate	149	8.100	8.100	(1.085)	49177	5.00000	4.514
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	22112	5.00000	4.930
94 4-Nitroaniline	138	8.214	8.214	(1.100)	13415	5.00000	4.435
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	5780	5.00000	8.076 (q)
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	41998	5.86000	5.430
100 Azobenzene	77	8.348	8.348	(0.888)	48101	5.00000	4.470
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	11766	5.00000	4.905
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	14244	5.00000	5.498
110 Pentachlorophenol	266	9.240	9.240	(0.982)	5849	5.00000	3.762
114 Phenanthrene	178	9.437	9.437	(1.003)	80873	5.00000	5.224
115 Anthracene	178	9.499	9.499	(1.010)	77577	5.00000	4.979
118 Carbazole	167	9.768	9.768	(1.039)	70241	5.00000	4.847
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	79722	5.00000	4.549
126 Fluoranthene	202	11.302	11.302	(1.202)	64427	5.00000	4.624
127 Benzidine	184	11.571	11.571	(0.840)	44267	5.00000	4.759
128 Pyrene	202	11.665	11.665	(0.847)	71230	5.00000	5.029
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	37074	5.00000	4.644
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	36798	5.00000	5.084
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	62384	5.00000	5.220
139 Chrysene	228	13.820	13.831	(1.003)	59618	5.00000	4.801
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	22168	5.00000	5.069
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	51997	5.00000	5.218
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	76353	5.00000	4.792
144 Benzo(b)fluoranthene	252	15.572	15.582	(0.963)	45075	5.00000	4.270 (Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	68403	5.00000	5.546 (q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	50295	5.00000	4.807
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	54694	5.00000	4.761
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	41053	5.00000	4.039
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	49018	5.00000	4.706
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	53428	5.00000	4.784

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				113478	5.00000	4.958 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002A.D
 Lab Smp Id: HSL 005 ug/ml CS-1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

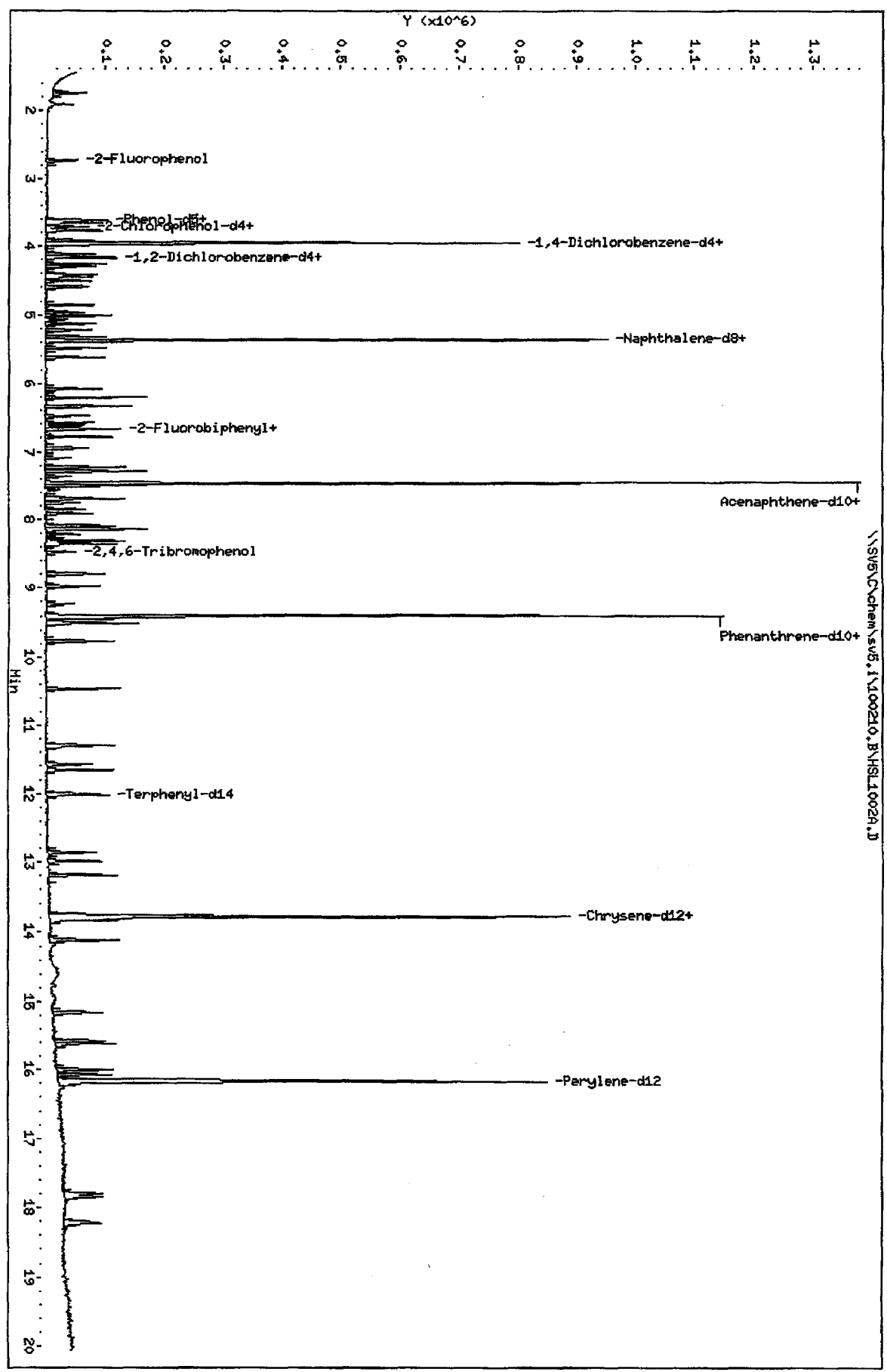
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141539	15.42
2 Naphthalene-d8	530514	265257	1061028	605687	14.17
3 Acenaphthene-d10	282538	141269	565076	321839	13.91
4 Phenanthrene-d10	462722	231361	925444	496356	7.27
5 Chrysene-d12	435850	217925	871700	453007	3.94
6 Perylene-d12	422284	211142	844568	445119	5.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVB\C\chem\sv5.1\100210.B\HSL10026.D
 Date: 02-01-2010 12:27
 Client ID: 8270F.H
 Sample Info: HSL_005 ug/ml CS-4111111114
 Column phase:

Instrument: sv5.1
 Operator: KT
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002B.D
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 12:53
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 010 ug/ml CS-2;1;;2;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Dil bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4		152	3.955	3.955	(1.000)	116839	40.0000	(Q)
* 2 Naphthalene-d8		136	5.364	5.374	(1.000)	493196	40.0000	
* 3 Acenaphthene-d10		164	7.468	7.468	(1.000)	272639	40.0000	
* 4 Phenanthrene-d10		188	9.406	9.405	(1.000)	428440	40.0000	
* 5 Chrysene-d12		240	13.779	13.779	(1.000)	412260	40.0000	
* 6 Perylene-d12		264	16.162	16.162	(1.000)	419005	40.0000	
\$ 7 2-Fluorophenol		112	2.732	2.732	(0.691)	38100	10.0000	9.251
\$ 8 Phenol-d5		99	3.613	3.613	(0.914)	48878	10.0000	9.438
\$ 9 2-Chlorophenol-d4		132	3.747	3.758	(0.948)	45430	10.0000	9.989
\$ 10 1,2-Dichlorobenzene-d4		152	4.151	4.162	(1.050)	28658	10.0000	9.959
\$ 11 Nitrobenzene-d5		82	4.576	4.576	(0.853)	42237	10.0000	10.11 (QM)
\$ 12 2-Fluorobiphenyl		172	6.680	6.680	(0.895)	85886	10.0000	9.779
\$ 13 2,4,6-Tribromophenol		330	8.473	8.473	(1.135)	11265	10.0000	9.508
\$ 14 Terphenyl-d14		244	12.017	12.017	(0.872)	81026	10.0000	9.978
15 N-Nitrosodimethylamine		74	1.706	1.706	(0.431)	25783	10.0000	9.578 (g)
16 Pyridine		79	1.737	1.726	(0.439)	40141	10.0000	8.917 (Q)
23 Aniline		93	3.654	3.654	(0.924)	63074	10.0000	9.568 (g)
24 Phenol		94	3.623	3.623	(0.916)	57313	10.0000	9.631 (Q)
26 Bis(2-chloroethyl) ether		93	3.716	3.716	(0.940)	40383	10.0000	9.677
27 2-Chlorophenol		128	3.768	3.768	(0.953)	45449	10.0000	9.950
28 1,3-Dichlorobenzene		146	3.913	3.923	(0.990)	49415	10.0000	9.932
29 1,4-Dichlorobenzene		146	3.975	3.975	(1.005)	52537	10.0000	10.10
30 Benzyl Alcohol		108	4.120	4.120	(1.042)	30277	10.0000	9.862
31 1,2-Dichlorobenzene		146	4.172	4.172	(1.055)	47666	10.0000	9.966
32 2-Methylphenol		108	4.255	4.255	(1.076)	40581	10.0000	9.714
33 2,2'-oxybis(1-Chloropropane)		45	4.297	4.297	(1.086)	64869	10.0000	9.768
34 4-Methylphenol		108	4.421	4.421	(1.118)	43497	10.0000	9.803
36 Hexachloroethane		117	4.504	4.504	(1.139)	17770	10.0000	10.03
37 N-Nitrosodimethylamine		70	4.442	4.442	(1.123)	28335	10.0000	9.587
42 Nitrobenzene		77	4.597	4.597	(0.857)	40198	10.0000	9.845
44 Isophorone		82	4.856	4.856	(0.905)	76804	10.0000	9.782
45 2-Nitrophenol		139	4.960	4.960	(0.925)	23221	10.0000	9.585
46 2,4-Dimethylphenol		107	5.012	5.012	(0.934)	42128	10.0000	9.787

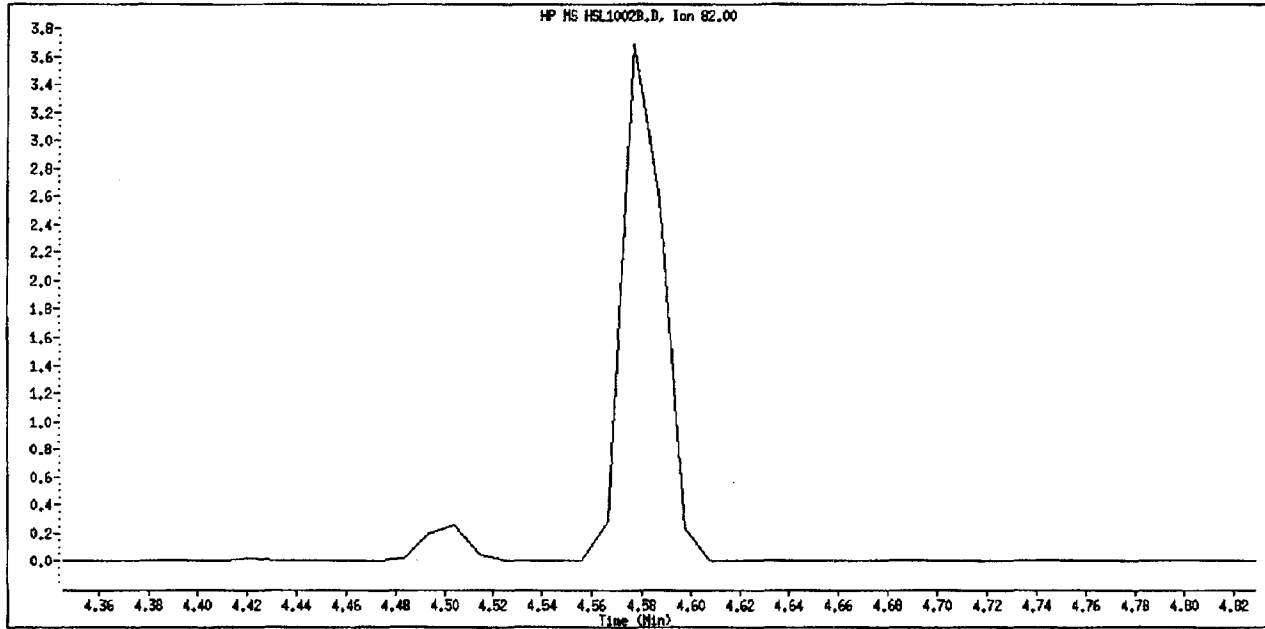
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.418
51 1,2,4-Trichlorobenzene	180	5.323	5.322	(0.992)	35544	10.0000	9.857
52 Naphthalene	128	5.395	5.395	(1.006)	138665	10.0000	10.18
54 4-Chloroaniline	127	5.488	5.488	(1.023)	52444	10.0000	9.826
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	17030	10.0000	9.650
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.131)	35592	10.0000	9.570
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	83922	10.0000	9.811
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	18919	10.0000	9.300
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	20325	10.0000	9.344
70 2,4,5-Trichlorophenol	196	6.618	6.628	(0.886)	22419	10.0000	9.567
71 2-Chloronaphthalene	162	6.773	6.784	(0.907)	74574	10.0000	9.719
73 2-Nitroaniline	65	6.950	6.949	(0.931)	21647	10.0000	9.308
76 Dimethylphthalate	163	7.219	7.229	(0.967)	85330	10.0000	9.659
77 Acenaphthylene	152	7.281	7.281	(0.975)	130392	10.0000	9.758
79 2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	18661	10.0000	9.067 (QM)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	23598	10.0000	9.186 (q)
81 Acenaphthene	153	7.509	7.509	(1.006)	83474	10.0000	9.814
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	7537	10.0000	10.11 (q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	110503	10.0000	9.789
84 4-Nitrophenol	109	7.675	7.675	(1.028)	9643	10.0000	9.049 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	24530	10.0000	9.080
91 Fluorene	166	8.131	8.131	(1.089)	91225	10.0000	9.759
92 Diethylphthalate	149	8.100	8.100	(1.085)	88532	10.0000	9.788
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	38113	10.0000	9.807
94 4-Nitroaniline	138	8.214	8.214	(1.100)	23002	10.0000	9.033
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	11282	10.0000	11.10
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	74860	11.7000	11.53
100 Azobenzene	77	8.349	8.348	(0.888)	82437	10.0000	9.784
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	19823	10.0000	9.478
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	23622	10.0000	10.11
110 Pentachlorophenol	266	9.240	9.240	(0.982)	10551	10.0000	10.90
114 Phenanthrene	178	9.437	9.437	(1.003)	134966	10.0000	9.995
115 Anthracene	178	9.499	9.499	(1.010)	130416	10.0000	9.667
118 Carbazole	167	9.768	9.768	(1.039)	120549	10.0000	9.782
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	141693	10.0000	9.555
126 Fluoranthene	202	11.302	11.302	(1.202)	115262	10.0000	9.526
127 Benzidine	184	11.571	11.571	(0.840)	78774	10.0000	9.428
128 Pyrene	202	11.654	11.665	(0.846)	127577	10.0000	9.901
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	66361	10.0000	8.997
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	62032	10.0000	9.605
138 Benzo (a) Anthracene	228	13.748	13.758	(0.998)	102788	10.0000	9.360
139 Chrysene	228	13.820	13.831	(1.003)	113552	10.0000	10.11
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	38850	10.0000	9.379
141 bis (2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	83377	10.0000	9.372
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	126961	10.0000	8.928
144 Benzo (b) fluoranthene	252	15.572	15.582	(0.963)	84929	10.0000	8.954 (Q)
145 Benzo (k) fluoranthene	252	15.613	15.623	(0.966)	122065	10.0000	10.02 (q)
147 Benzo (e) pyrene	252	15.996	16.007	(0.990)	97140	10.0000	9.821
148 Benzo (a) pyrene	252	16.069	16.079	(0.994)	102327	10.0000	9.516
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.101)	76748	10.0000	8.824
152 Dibenzo (a, h) anthracene	278	17.841	17.841	(1.104)	88393	10.0000	9.097
153 Benzo (g, h, i) perylene	276	18.224	18.235	(1.128)	103135	10.0000	9.804

Compounds	QUANT SIG					AMOUNTS		
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252					206994	10.0000	9.556 (A)

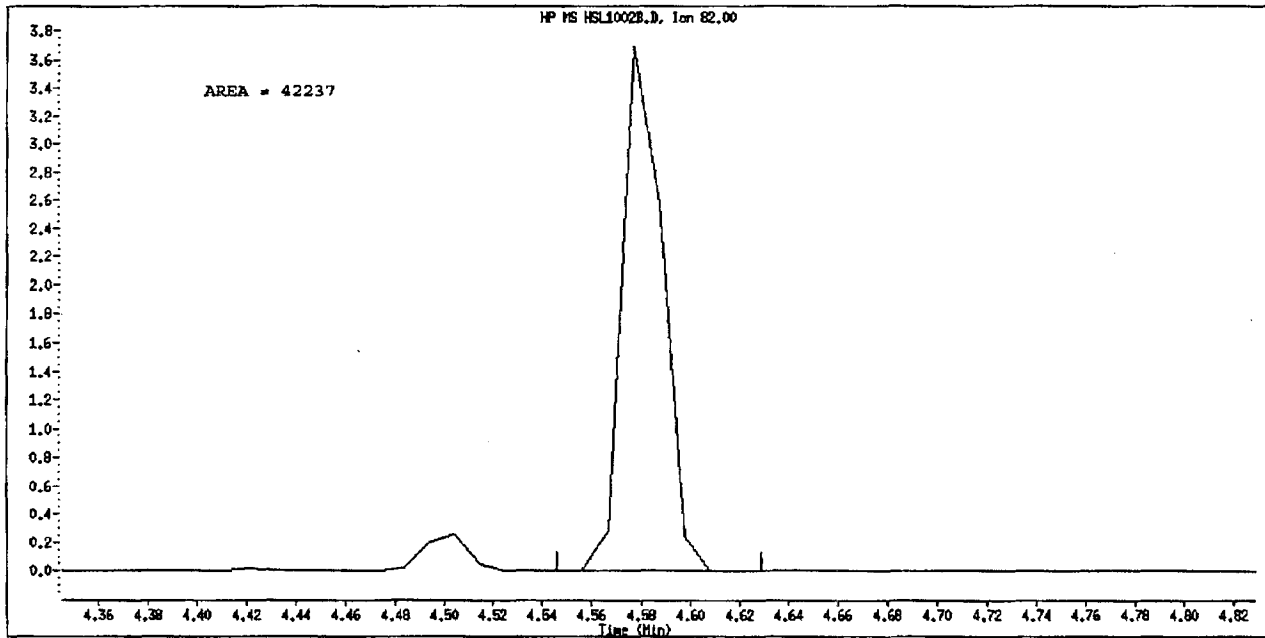
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002B.D
Inj. Date and Time: 02-OCT-2010 12:53
Instrument ID: sv5.1
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



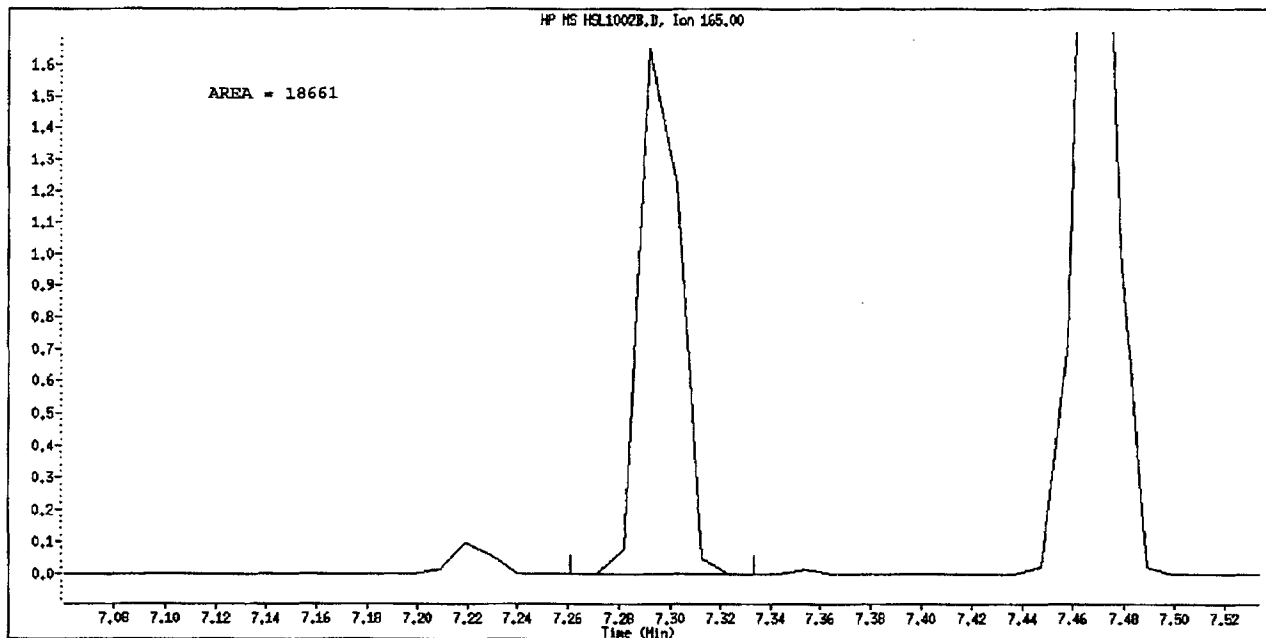
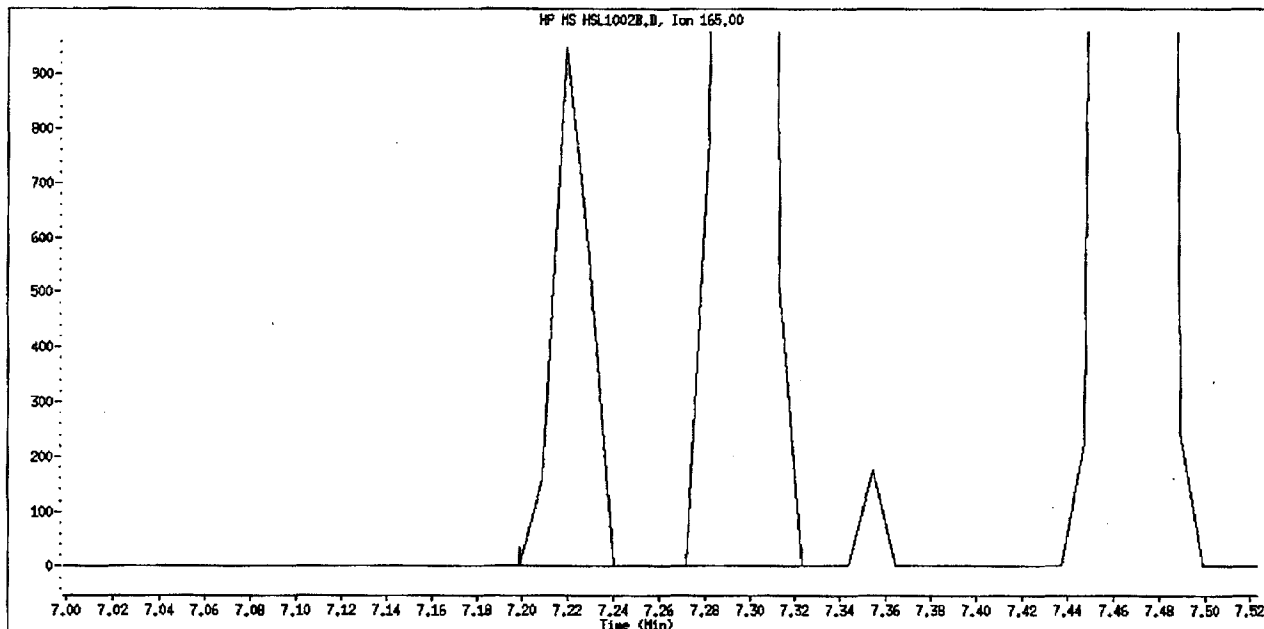
Original Integration



Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002B.D
Inj. Date and Time: 02-OCT-2010 12:53
Instrument ID: sv5.1
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D
 Lab Smp Id: HSL_010 ug/ml CS-2 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 12:53
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_010 ug/ml CS-2;1;;2;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
						CAL-AMT (NG)	ON-COL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955	(1.000)	116839	40.0000	(Q)	
* 2 Naphthalene-d8	136	5.364	5.374	(1.000)	493196	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	272639	40.0000		
* 4 Phenanthrene-d10	188	9.406	9.405	(1.000)	428440	40.0000		
* 5 Chrysene-d12	240	13.779	13.779	(1.000)	412260	40.0000		
* 6 Perylene-d12	264	16.162	16.162	(1.000)	419005	40.0000		
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	38100	10.0000	8.835	
\$ 8 Phenol-d5	99	3.613	3.613	(0.914)	48878	10.0000	8.913	
\$ 9 2-Chlorophenol-d4	132	3.747	3.758	(0.948)	45430	10.0000	9.716	
\$ 10 1,2-Dichlorobenzene-d4	152	4.151	4.162	(1.050)	28658	10.0000	9.820	
\$ 11 Nitrobenzene-d5	82	Compound Not Detected.						
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	85886	10.0000	9.835	
\$ 13 2,4,6-Tribromophenol	330	8.473	8.473	(1.135)	11265	10.0000	10.46	
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.872)	81026	10.0000	10.08	
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	25783	10.0000	9.059	
16 Pyridine	79	1.737	1.726	(0.439)	40141	10.0000	8.464	
23 Aniline	93	3.654	3.654	(0.924)	63074	10.0000	9.172 (q)	
24 Phenol	94	3.623	3.623	(0.916)	57313	10.0000	9.827 (Q)	
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	40383	10.0000	9.114	
27 2-Chlorophenol	128	3.768	3.768	(0.953)	45449	10.0000	9.848	
28 1,3-Dichlorobenzene	146	3.913	3.923	(0.990)	49415	10.0000	9.689	
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	52537	10.0000	10.19	
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	30277	10.0000	9.547	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	47666	10.0000	9.755	
32 2-Methylphenol	108	4.255	4.255	(1.076)	40581	10.0000	9.413	
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	64869	10.0000	7.888	
34 4-Methylphenol	108	4.421	4.421	(1.118)	43497	10.0000	9.466	
36 Hexachloroethane	117	4.504	4.504	(1.139)	17770	10.0000	9.768	
37 N-Nitrosodimethylpropylamine	70	4.442	4.442	(1.123)	28335	10.0000	8.809	
42 Nitrobenzene	77	4.597	4.597	(0.857)	40198	10.0000	9.246	
44 Isophorone	82	4.856	4.856	(0.905)	76804	10.0000	9.318	
45 2-Nitrophenol	139	4.960	4.960	(0.925)	23221	10.0000	9.784	
46 2,4-Dimethylphenol	107	5.012	5.012	(0.934)	42128	10.0000	9.559	

10-3-10

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.421
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	10.00
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.164
51 1,2,4-Trichlorobenzene	180	5.323	5.322	(0.992)	35544	10.0000	10.11
52 Naphthalene	128	5.395	5.395	(1.006)	138665	10.0000	10.10
54 4-Chloroaniline	127	5.488	5.488	(1.023)	52444	10.0000	9.711
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	17030	10.0000	10.18
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.131)	35592	10.0000	9.536
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	83922	10.0000	10.02
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	18919	10.0000	9.098
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	20325	10.0000	9.847
70 2,4,5-Trichlorophenol	196	6.618	6.628	(0.886)	22419	10.0000	9.889
71 2-Chloronaphthalene	162	6.773	6.784	(0.907)	74574	10.0000	9.756
73 2-Nitroaniline	65	6.950	6.949	(0.931)	21647	10.0000	8.456
76 Dimethylphthalate	163	7.219	7.229	(0.967)	85330	10.0000	9.665
77 Acenaphthylene	152	7.281	7.281	(0.975)	130392	10.0000	9.758
79 2,6-Dinitrotoluene	165	7.219	7.302	(0.967)	19698	10.0000	9.963 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	23598	10.0000	9.002 (q)
81 Acenaphthene	153	7.509	7.509	(1.006)	83474	10.0000	9.804
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	7537	10.0000	9.147 (q)
83 Dibenzofuran	168	7.696	7.706	(1.031)	110503	10.0000	9.824
84 4-Nitrophenol	109	7.675	7.675	(1.028)	9643	10.0000	8.425 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	24530	10.0000	9.262
91 Fluorene	166	8.131	8.131	(1.089)	91225	10.0000	9.898
92 Diethylphthalate	149	8.100	8.100	(1.085)	88532	10.0000	9.594
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	38113	10.0000	10.03
94 4-Nitroaniline	138	8.214	8.214	(1.100)	23002	10.0000	8.977
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	11282	10.0000	11.76
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	74860	11.7000	11.21
100 Azobenzene	77	8.349	8.348	(0.888)	82437	10.0000	8.875
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	19823	10.0000	9.575
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	23622	10.0000	10.56
110 Pentachlorophenol	266	9.240	9.240	(0.982)	10551	10.0000	7.861
114 Phenanthrene	178	9.437	9.437	(1.003)	134966	10.0000	10.10
115 Anthracene	178	9.499	9.499	(1.010)	130416	10.0000	9.697
118 Carbazole	167	9.768	9.768	(1.039)	120549	10.0000	9.637
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	141693	10.0000	9.367
126 Fluoranthene	202	11.302	11.302	(1.202)	115262	10.0000	9.583
127 Benzidine	184	11.571	11.571	(0.840)	78774	10.0000	9.305
128 Pyrene	202	11.654	11.665	(0.846)	127577	10.0000	9.897
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	66361	10.0000	9.134
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	62032	10.0000	9.418
138 Benzo(a)Anthracene	228	13.748	13.758	(0.998)	102788	10.0000	9.450
139 Chrysene	228	13.820	13.831	(1.003)	113552	10.0000	10.05
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	38850	10.0000	9.762
141 bis(2-ethylhexyl)Phtbalate	149	14.110	14.110	(1.024)	83377	10.0000	9.194
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	126961	10.0000	8.756
144 Benzo(b)fluoranthene	252	15.572	15.582	(0.963)	84929	10.0000	8.548 (Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	122065	10.0000	10.51 (q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	97140	10.0000	9.863
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	102327	10.0000	9.463
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	76748	10.0000	8.022
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	88393	10.0000	9.016
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	103135	10.0000	9.811

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.607 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002B.D
 Lab Smp Id: HSL 010 ug/ml CS-2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

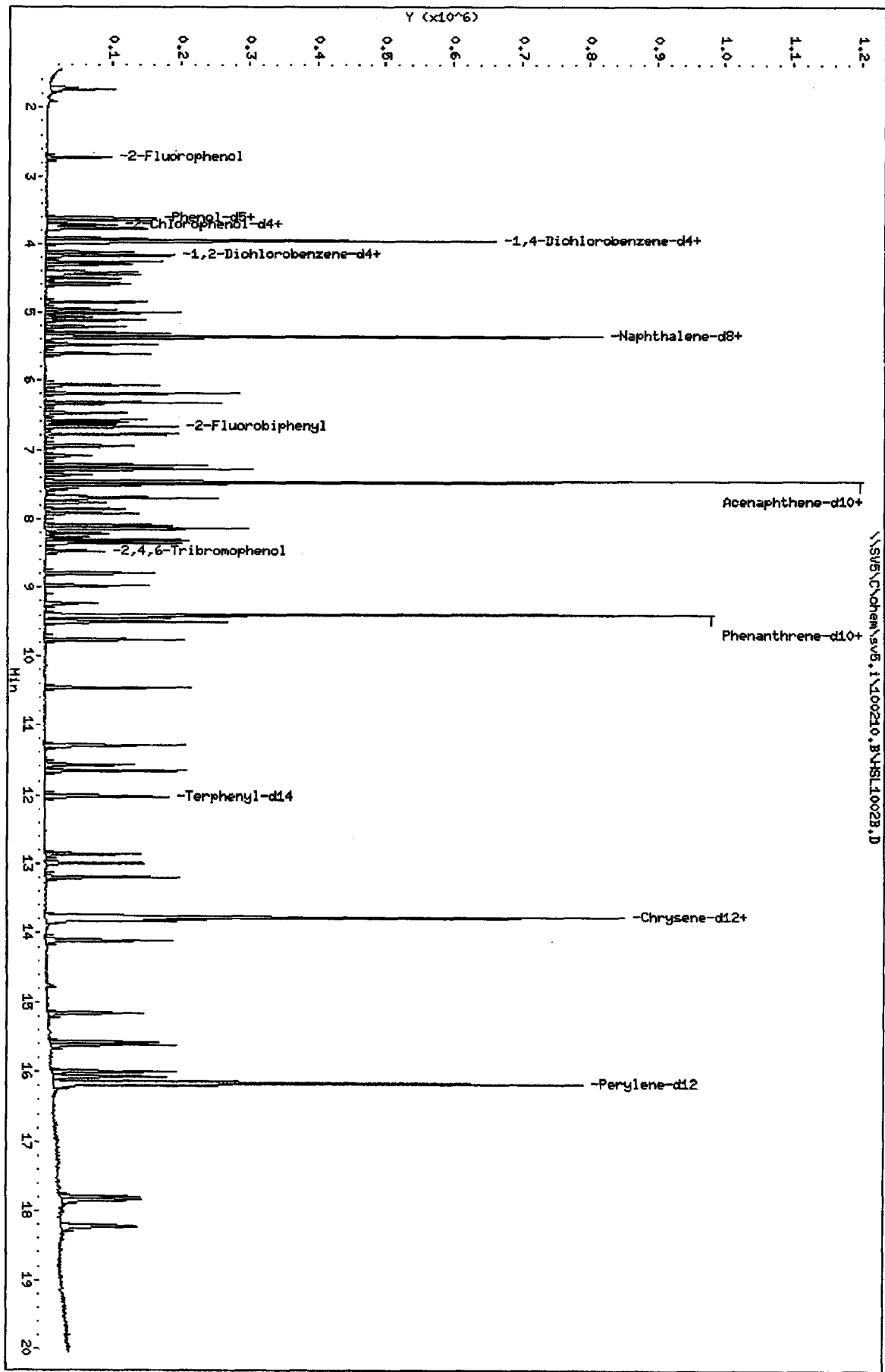
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	116839	-4.72
2 Naphthalene-d8	530514	265257	1061028	493196	-7.03
3 Acenaphthene-d10	282538	141269	565076	272639	-3.50
4 Phenanthrene-d10	462722	231361	925444	428440	-7.41
5 Chrysene-d12	435850	217925	871700	412260	-5.41
6 Perylene-d12	422284	211142	844568	419005	-0.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.19
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS\C\chem\sv5.1\100210.B\HSL1002B.D
 Date: 02-OCT-2010 12:53
 Client ID: 8270F.M
 Sample Info: HSL_010 ug/ml CS-21112114
 Column phase:

Instrument: sv5.1
 Operator: KT
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002C.D
 Lab Smp Id: HSL_020 ug/ml CS-3 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 13:18
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_020 ug/ml CS-3;1;;3;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT	SIG	AMOUNTS				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE	CAL-AMT ( NG)
* 1 1,4-Dichlorobenzene-d4	152		3.954	3.955	(1.000)	145926	40.0000	(Q)
* 2 Naphthalene-d8	136		5.364	5.374	(1.000)	625682	40.0000	
* 3 Acenaphthene-d10	164		7.467	7.468	(1.000)	328608	40.0000	
* 4 Phenanthrene-d10	188		9.405	9.405	(1.000)	525834	40.0000	
* 5 Chrysene-d12	240		13.779	13.779	(1.000)	590727	40.0000	
* 6 Perylene-d12	264		16.162	16.162	(1.000)	619266	40.0000	
\$ 7 2-Fluorophenol	112		2.732	2.732	(0.691)	100961	20.0000	19.63
\$ 8 Phenol-d5	99		3.612	3.613	(0.914)	127066	20.0000	19.64
\$ 9 2-Chlorophenol-d4	132		3.747	3.758	(0.948)	112302	20.0000	19.77
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	72837	20.0000	20.27(q)
\$ 11 Nitrobenzene-d5	82		4.576	4.576	(0.853)	103440	20.0000	19.52
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	209764	20.0000	19.82
\$ 13 2,4,6-Tribromophenol	330		8.473	8.473	(1.135)	28698	20.0000	20.10
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	218324	20.0000	18.76
15 N-Nitrosodimethylamine	74		1.706	1.706	(0.431)	66431	20.0000	19.76(q)
16 Pyridine	79		1.726	1.726	(0.437)	116339	20.0000	20.69(Q)
23 Aniline	93		3.654	3.654	(0.924)	160510	20.0000	19.50
24 Phenol	94		3.623	3.623	(0.916)	147994	20.0000	19.91
26 Bis(2-chloroethyl) ether	93		3.716	3.716	(0.940)	101777	20.0000	19.53
27 2-Chlorophenol	128		3.768	3.768	(0.953)	114481	20.0000	20.07
28 1,3-Dichlorobenzene	146		3.913	3.923	(0.990)	122398	20.0000	19.70
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	126965	20.0000	19.54
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	72366	20.0000	18.87
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	117073	20.0000	19.60
32 2-Methylphenol	108		4.255	4.255	(1.076)	101499	20.0000	19.45
33 2,2'-oxybis(1-Chloropropane)	45		4.296	4.297	(1.086)	166596	20.0000	20.08
34 4-Methylphenol	108		4.421	4.421	(1.118)	106723	20.0000	19.26
36 Hexachloroethane	117		4.504	4.504	(1.139)	44196	20.0000	19.98
37 N-Nitrosodipropylamine	70		4.441	4.442	(1.123)	73913	20.0000	20.02
42 Nitrobenzene	77		4.597	4.597	(0.857)	101809	20.0000	19.65
44 Isophorone	82		4.856	4.856	(0.905)	191333	20.0000	19.21
45 2-Nitrophenol	139		4.960	4.960	(0.925)	58938	20.0000	19.18
46 2,4-Dimethylphenol	107		5.011	5.012	(0.934)	107325	20.0000	19.65

69
10-3-10

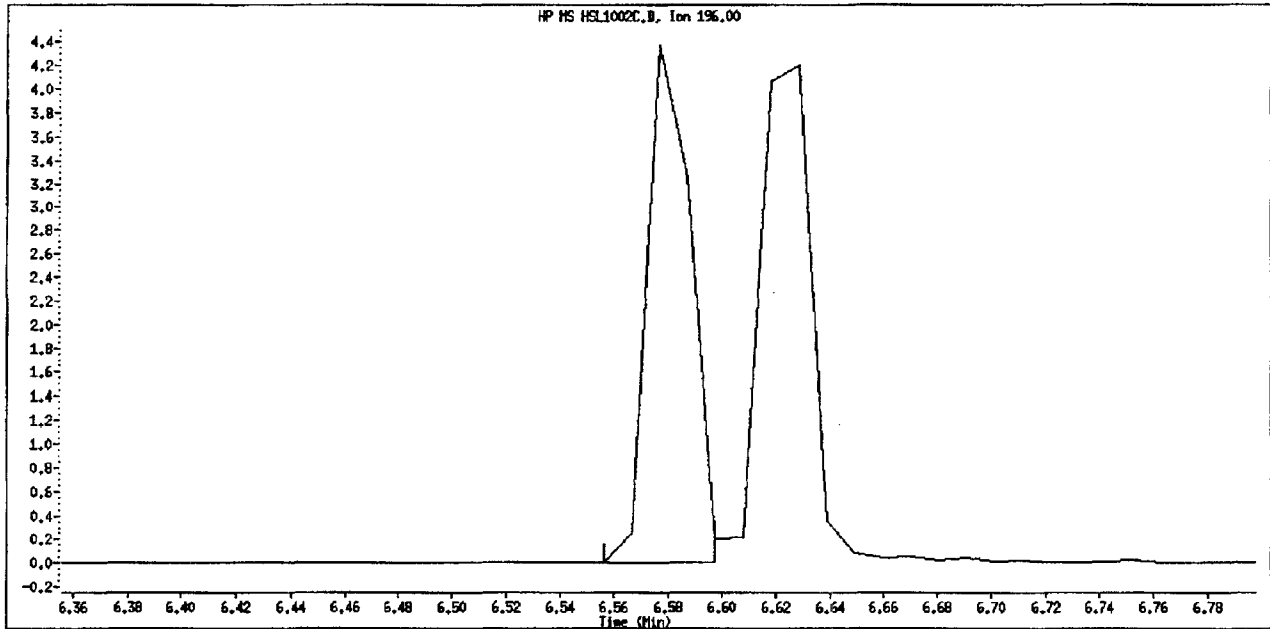
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.992)	89082	20.0000	19.47
52 Naphthalene	128	5.395	5.395	(1.006)	336100	20.0000	19.46
54 4-Chloroaniline	127	5.488	5.488	(1.023)	135348	20.0000	19.99
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	45138	20.0000	20.16
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.131)	90970	20.0000	19.28
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	212981	20.0000	19.62
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	47478	20.0000	19.36
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	49658	20.0000	18.94 (Q)
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	55529	20.0000	19.66 (QM)
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	180754	20.0000	19.54
73 2-Nitroaniline	65	6.949	6.949	(0.931)	54872	20.0000	19.58
76 Dimethylphthalate	163	7.219	7.229	(0.967)	213272	20.0000	20.03
77 Acenaphthylene	152	7.281	7.281	(0.975)	315165	20.0000	19.57
79 2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	49111	20.0000	19.80 (QM)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	59114	20.0000	19.09
81 Acenaphthene	153	7.509	7.509	(1.006)	208228	20.0000	20.31
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	23799	20.0000	19.52
83 Dibenzofuran	168	7.695	7.706	(1.031)	271431	20.0000	19.95
84 4-Nitrophenol	109	7.675	7.675	(1.028)	25164	20.0000	19.59 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	63223	20.0000	19.42
91 Fluorene	166	8.131	8.131	(1.089)	220647	20.0000	19.58
92 Diethylphthalate	149	8.100	8.100	(1.085)	216140	20.0000	19.83
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	93468	20.0000	19.95
94 4-Nitroaniline	138	8.214	8.214	(1.100)	61333	20.0000	19.98
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	32982	20.0000	20.44
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	186206	23.4000	23.36
100 Azobenzene	77	8.348	8.348	(0.888)	203290	20.0000	19.66
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	50693	20.0000	19.75
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	54528	20.0000	19.02
110 Pentachlorophenol	266	9.240	9.240	(0.982)	30451	20.0000	20.33
114 Phenanthrene	178	9.436	9.437	(1.003)	329718	20.0000	19.89
115 Anthracene	178	9.499	9.499	(1.010)	326558	20.0000	19.72
118 Carbazole	167	9.768	9.768	(1.039)	298921	20.0000	19.76
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.68
126 Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.75
127 Benzidine	184	11.571	11.571	(0.840)	222260	20.0000	18.56
128 Pyrene	202	11.665	11.665	(0.847)	345805	20.0000	18.73
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	198960	20.0000	18.82
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	174685	20.0000	18.88
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	304948	20.0000	19.38
139 Chrysene	228	13.820	13.831	(1.003)	314030	20.0000	19.51
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	115458	20.0000	19.45
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	248201	20.0000	19.47
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	400592	20.0000	19.66
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	256213	20.0000	18.28 (Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	371629	20.0000	20.65 (q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	281015	20.0000	19.22
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	307781	20.0000	19.37
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	228110	20.0000	17.74
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.81
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.39

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	19.61 (A)

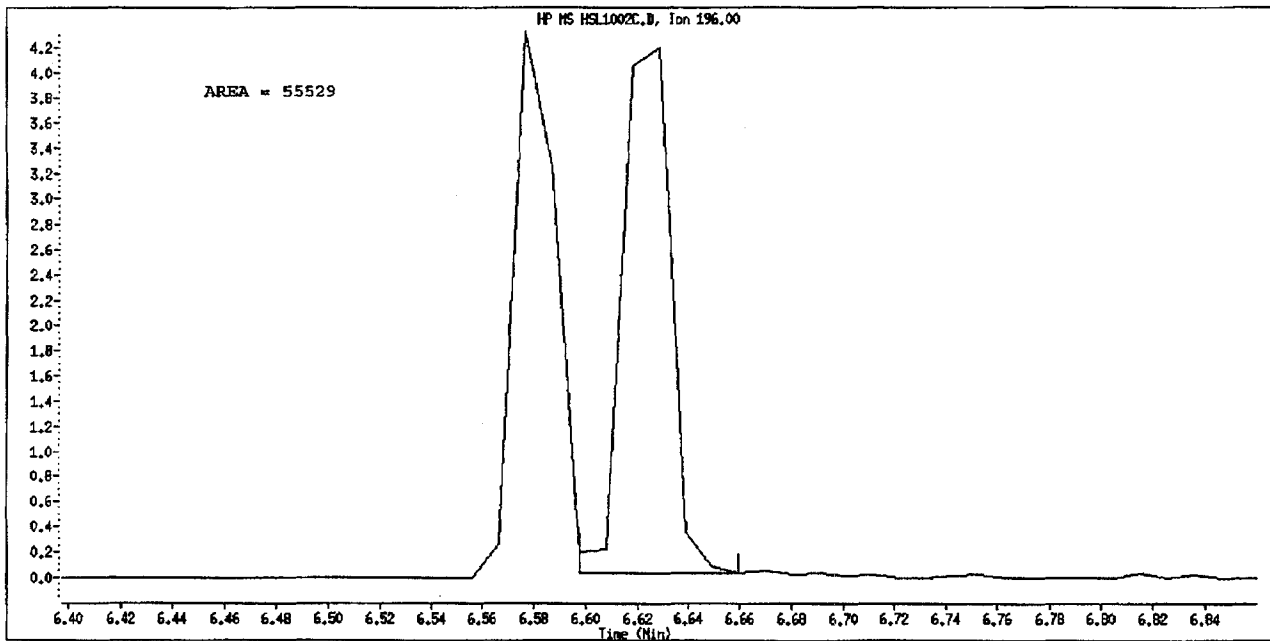
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002C.D
Inj. Date and Time: 02-OCT-2010 13:18
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 10/03/2010



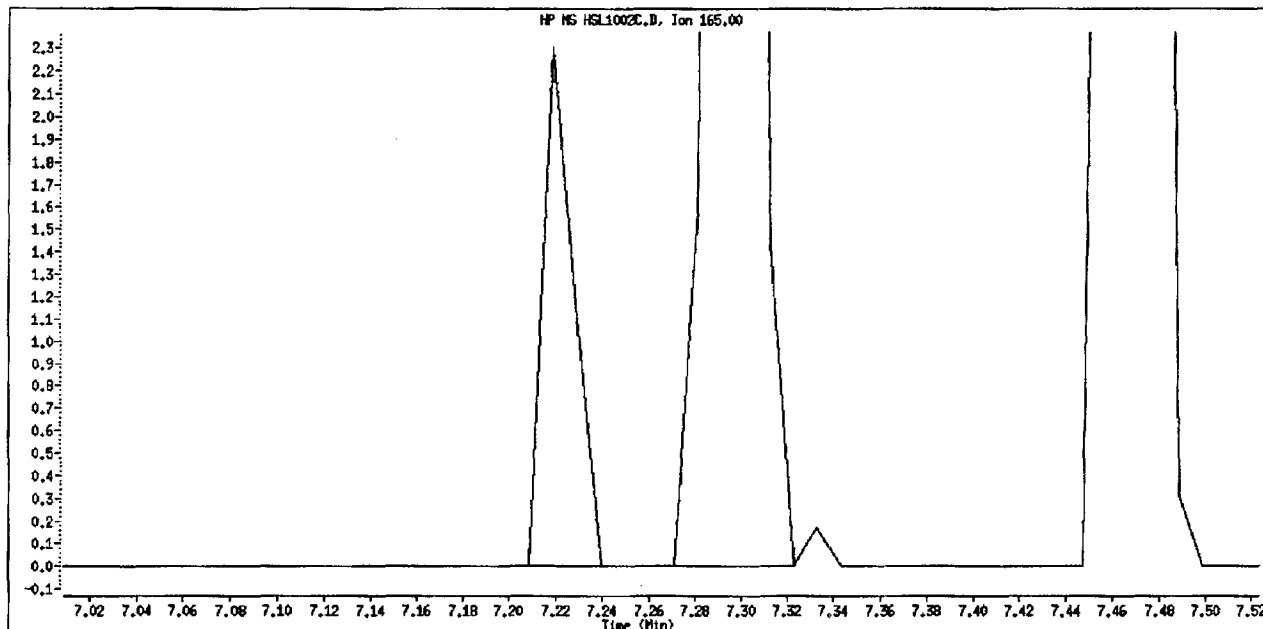
Original Integration



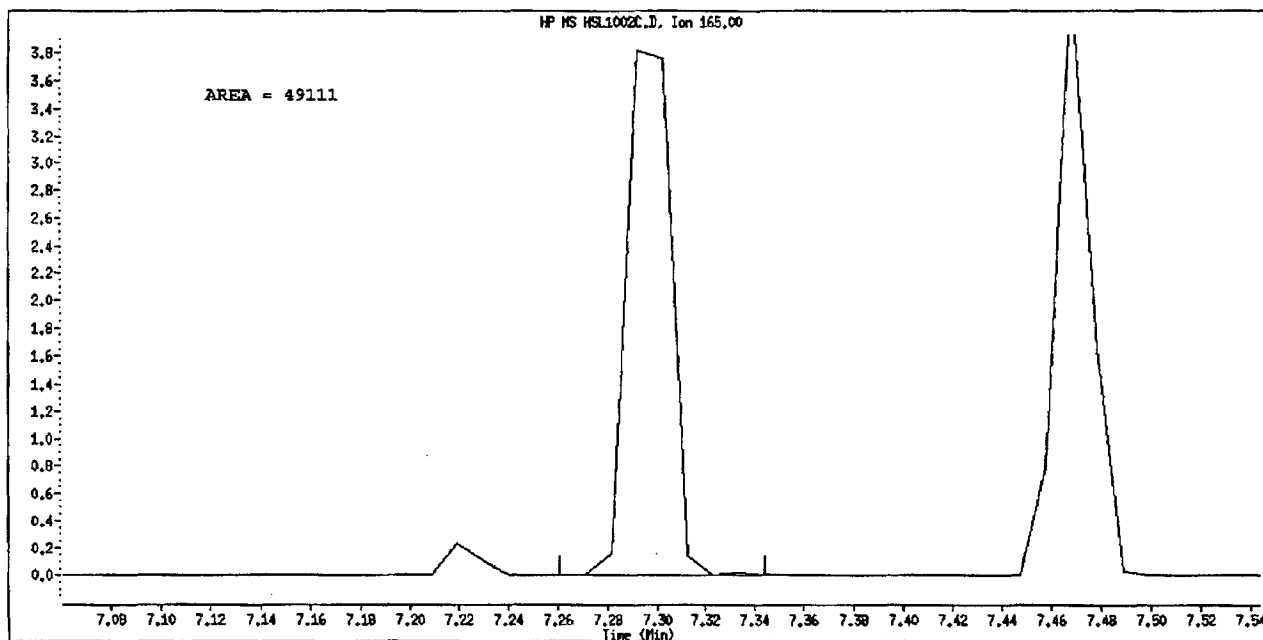
Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Wrong Peak

Data File Name: HSL1002C.D
Inj. Date and Time: 02-OCT-2010 13:18
Instrument ID: sv5.1
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D
 Lab Smp Id: HSL_020 ug/ml CS-3 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 13:18
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_020 ug/ml CS-3;1;;3;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT (NG)	ON-COL (NG)
			MASS	RT	EXP RT	REL RT			RESPONSE
* 1 1,4-Dichlorobenzene-d4	152		3.954	3.955	(1.000)	145926	40.0000	(Q)
* 2 Naphthalene-d8	136		5.364	5.374	(1.000)	625682	40.0000	
* 3 Acenaphthene-d10	164		7.467	7.468	(1.000)	328608	40.0000	
* 4 Phenanthrene-d10	188		9.405	9.405	(1.000)	525834	40.0000	
* 5 Chrysene-d12	240		13.779	13.779	(1.000)	590727	40.0000	
* 6 Perylene-d12	264		16.162	16.162	(1.000)	619266	40.0000	
\$ 7 2-Fluorophenol	112		2.732	2.732	(0.691)	100961	20.0000	18.75
\$ 8 Phenol-d5	99		3.612	3.613	(0.914)	127066	20.0000	18.55
\$ 9 2-Chlorophenol-d4	132		3.747	3.758	(0.948)	112302	20.0000	19.23
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	72837	20.0000	19.98 (q)
\$ 11 Nitrobenzene-d5	82		4.576	4.576	(0.853)	103440	20.0000	18.64
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	209764	20.0000	19.93
\$ 13 2,4,6-Tribromophenol	330		8.473	8.473	(1.135)	28698	20.0000	22.12
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	218324	20.0000	18.95
15 N-Nitrosodimethylamine	74		1.706	1.706	(0.431)	66431	20.0000	18.69
16 Pyridine	79		1.726	1.726	(0.437)	116339	20.0000	19.64
23 Aniline	93		3.654	3.654	(0.924)	160510	20.0000	18.69
24 Phenol	94		3.623	3.623	(0.916)	147994	20.0000	20.32
26 Bis(2-chloroethyl) ether	93		3.716	3.716	(0.940)	101777	20.0000	18.39
27 2-Chlorophenol	128		3.768	3.768	(0.953)	114481	20.0000	19.86
28 1,3-Dichlorobenzene	146		3.913	3.923	(0.990)	122398	20.0000	19.22
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	126965	20.0000	19.72
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	72366	20.0000	18.27
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	117073	20.0000	19.18
32 2-Methylphenol	108		4.255	4.255	(1.076)	101499	20.0000	18.85
33 2,2'-oxybis(1-Chloropropane)	45		4.296	4.297	(1.086)	166596	20.0000	16.22
34 4-Methylphenol	108		4.421	4.421	(1.118)	106723	20.0000	18.60
36 Hexachloroethane	117		4.504	4.504	(1.139)	44196	20.0000	19.45
37 N-Nitrosodimethylamine	70		4.441	4.442	(1.123)	73913	20.0000	18.40
42 Nitrobenzene	77		4.597	4.597	(0.857)	101809	20.0000	18.46
44 Isophorone	82		4.856	4.856	(0.905)	191333	20.0000	18.30
45 2-Nitrophenol	139		4.960	4.960	(0.925)	58938	20.0000	19.57
46 2,4-Dimethylphenol	107		5.011	5.012	(0.934)	107325	20.0000	19.20

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.38
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.54
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	17.49
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.992)	89082	20.0000	19.97
52 Naphthalene	128	5.395	5.395	(1.006)	336100	20.0000	19.30
54 4-Chloroaniline	127	5.488	5.488	(1.023)	135348	20.0000	19.76
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	45138	20.0000	21.26
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.131)	90970	20.0000	19.21
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	212981	20.0000	20.04
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	47478	20.0000	18.94
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	49658	20.0000	19.96 (Q)
70 2,4,5-Trichlorophenol	196	6.576	6.628	(0.881)	49658	20.0000	18.17 (Q)
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	180754	20.0000	19.62
73 2-Nitroaniline	65	6.949	6.949	(0.931)	54872	20.0000	17.78
76 Dimethylphthalate	163	7.219	7.229	(0.967)	213272	20.0000	20.04
77 Acenaphthylene	152	7.281	7.281	(0.975)	315165	20.0000	19.57
79 2,6-Dinitrotoluene	165	7.219	7.302	(0.967)	51125	20.0000	21.45 (Q)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	59114	20.0000	18.71
81 Acenaphthene	153	7.509	7.509	(1.006)	208228	20.0000	20.29
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	23799	20.0000	19.22
83 Dibenzofuran	168	7.695	7.706	(1.031)	271431	20.0000	20.02
84 4-Nitrophenol	109	7.675	7.675	(1.028)	25164	20.0000	18.24 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	63223	20.0000	19.81
91 Fluorene	166	8.131	8.131	(1.089)	220647	20.0000	19.86
92 Diethylphthalate	149	8.100	8.100	(1.085)	216140	20.0000	19.43
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	93468	20.0000	20.41
94 4-Nitroaniline	138	8.214	8.214	(1.100)	61333	20.0000	19.86
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	32982	20.0000	20.90
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	186206	23.4000	22.72
100 Azobenzene	77	8.348	8.348	(0.888)	203290	20.0000	17.83
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	50693	20.0000	19.95
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	54528	20.0000	19.87
110 Pentachlorophenol	266	9.240	9.240	(0.982)	30451	20.0000	18.48
114 Phenanthrene	178	9.436	9.437	(1.003)	329718	20.0000	20.10
115 Anthracene	178	9.499	9.499	(1.010)	326558	20.0000	19.78
118 Carbazole	167	9.768	9.768	(1.039)	298921	20.0000	19.47
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.29
126 Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.88
127 Benzidine	184	11.571	11.571	(0.840)	222260	20.0000	18.32
128 Pyrene	202	11.665	11.665	(0.847)	345805	20.0000	18.72
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	198960	20.0000	19.11
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	174685	20.0000	18.51
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	304948	20.0000	19.57
139 Chrysene	228	13.820	13.831	(1.003)	314030	20.0000	19.39
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	115458	20.0000	20.25
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	248201	20.0000	19.10
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	400592	20.0000	19.28
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	256213	20.0000	17.45 (Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	371629	20.0000	21.66 (q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	281015	20.0000	19.30
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	307781	20.0000	19.26
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	228110	20.0000	16.13
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.64
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	19.72 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 02-OCT-2010
Lab File ID: HSL1002C.D	Calibration Time: 13:44
Lab Smp Id: HSL 020 ug/ml CS-3	Client Smp ID: 8270F.M
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: KT	
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m	
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M	

Test Mode:
 Use Initial Calibration Level 4.

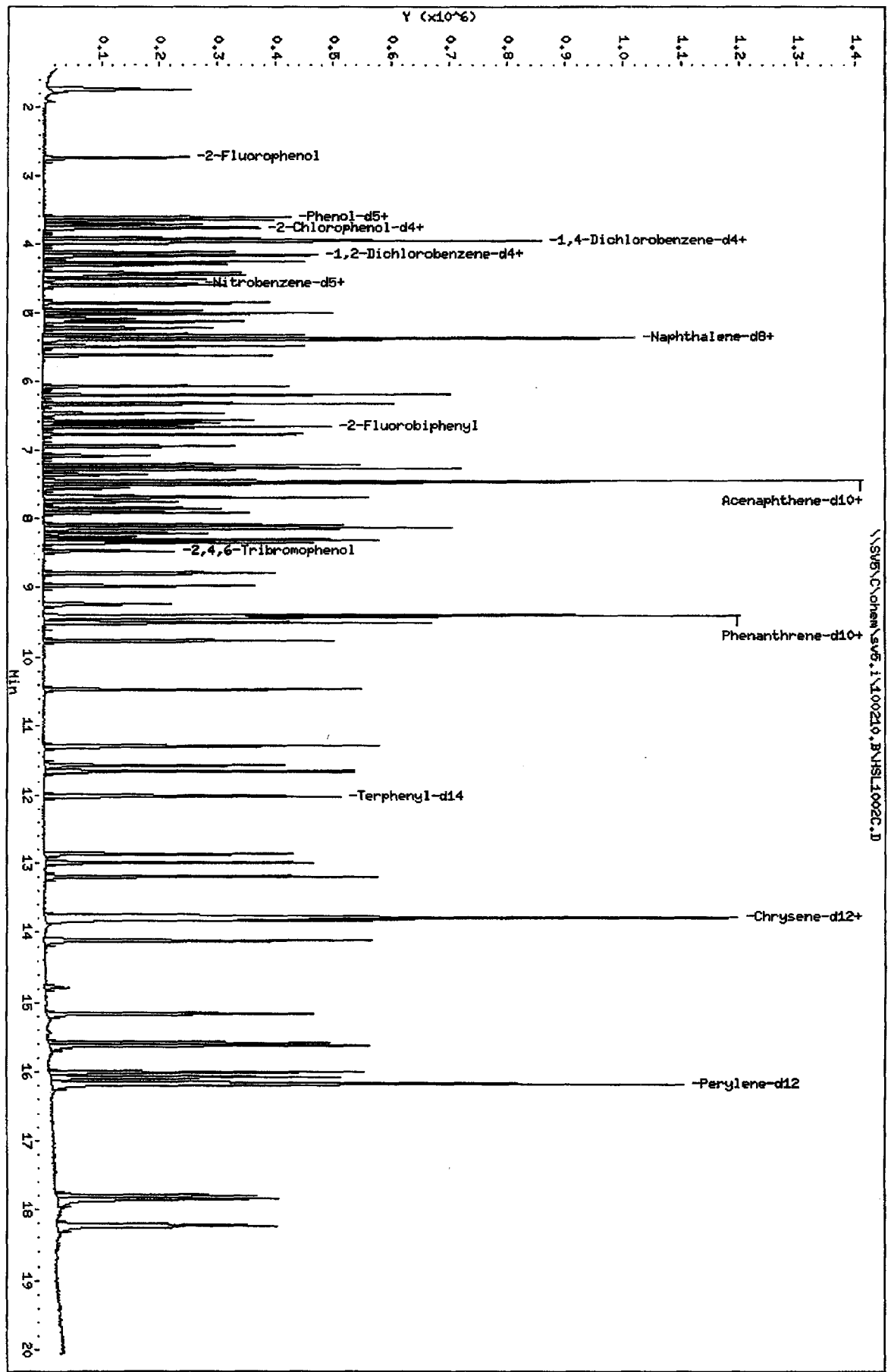
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	145926	19.00
2 Naphthalene-d8	530514	265257	1061028	625682	17.94
3 Acenaphthene-d10	282538	141269	565076	328608	16.31
4 Phenanthrene-d10	462722	231361	925444	525834	13.64
5 Chrysene-d12	435850	217925	871700	590727	35.53
6 Perylene-d12	422284	211142	844568	619266	46.65

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.20
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	-0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.1\100210.B\HSL1002C.D
 Date: 02-01-2010 13:18
 Client ID: 8270F.H
 Sample Info: HSL_020 ug/ml CS-311131114

Instrument: sv5.1
 Operator: KT
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 13:44
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 050 ug/ml CS-4;1;;4;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955	(1.000)	122625	40.0000		
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	530514	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	282538	40.0000		
* 4 Phenanthrene-d10	188	9.405	9.405	(1.000)	462722	40.0000		
* 5 Chrysene-d12	240	13.779	13.779	(1.000)	435850	40.0000		
* 6 Perylene-d12	264	16.162	16.162	(1.000)	422284	40.0000		
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	220986	50.0000	51.13	
\$ 8 Phenol-d5	99	3.613	3.613	(0.914)	274382	50.0000	50.48	
\$ 9 2-Chlorophenol-d4	132	3.758	3.758	(0.950)	244352	50.0000	51.19	
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	151616	50.0000	50.20	
\$ 11 Nitrobenzene-d5	82	4.576	4.576	(0.852)	226162	50.0000	50.33	
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	473978	50.0000	52.08	
\$ 13 2,4,6-Tribromophenol	330	8.473	8.473	(1.135)	63311	50.0000	51.57	
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.872)	438253	50.0000	51.05	
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	140972	50.0000	49.90(M)	
16 Pyridine	79	1.726	1.726	(0.437)	240053	50.0000	50.81(M)	
23 Aniline	93	3.654	3.654	(0.924)	346504	50.0000	50.08	
24 Phenol	94	3.623	3.623	(0.916)	311820	50.0000	49.93	
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	220455	50.0000	50.34	
27 2-Chlorophenol	128	3.768	3.768	(0.953)	242442	50.0000	50.57	
28 1,3-Dichlorobenzene	146	3.923	3.923	(0.992)	265384	50.0000	50.82	
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	271151	50.0000	49.66	
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	160914	50.0000	49.94	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	257606	50.0000	51.32	
32 2-Methylphenol	108	4.255	4.255	(1.076)	218610	50.0000	49.86	
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	349371	50.0000	50.12	
34 4-Methylphenol	108	4.421	4.421	(1.118)	233354	50.0000	50.11	
36 Hexachloroethane	117	4.504	4.504	(1.139)	94106	50.0000	50.62	
37 N-Nitrosodipropylamine	70	4.442	4.442	(1.123)	156914	50.0000	50.59	
42 Nitrobenzene	77	4.597	4.597	(0.855)	219387	50.0000	49.95	
44 Isophorone	82	4.856	4.856	(0.904)	420061	50.0000	49.74	
45 2-Nitrophenol	139	4.960	4.960	(0.923)	132771	50.0000	50.95	
46 2,4-Dimethylphenol	107	5.012	5.012	(0.933)	231517	50.0000	50.00	

10-3-10

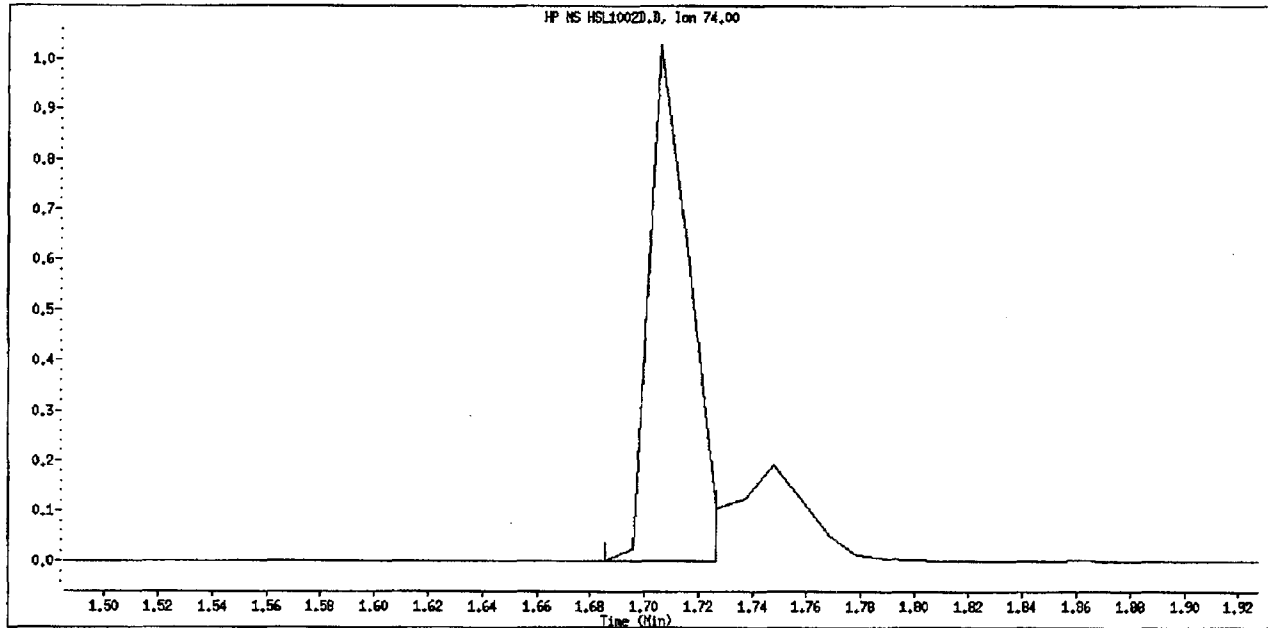
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	197265	50.0000	50.86
52 Naphthalene	128	5.395	5.395	(1.004)	724980	50.0000	49.49
54 4-Chloronaphthalene	127	5.488	5.488	(1.021)	291184	50.0000	50.72
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	95592	50.0000	50.36
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	205388	50.0000	51.34
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	464646	50.0000	50.50
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	104908	50.0000	49.76
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	113001	50.0000	50.13
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	128196	50.0000	52.79
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	403257	50.0000	50.72
73 2-Nitroaniline	65	6.949	6.949	(0.931)	124335	50.0000	51.59
76 Dimethylphthalate	163	7.229	7.229	(0.968)	475258	50.0000	51.91
77 Acenaphthylene	152	7.281	7.281	(0.975)	712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	110261	50.0000	51.69
80 3-Nitroaniline	138	7.447	7.447	(0.997)	141396	50.0000	53.11
81 Acenaphthene	153	7.509	7.509	(1.006)	448691	50.0000	50.90
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	58864	50.0000	47.37
83 Dibenzofuran	168	7.706	7.706	(1.032)	598735	50.0000	51.18
84 4-Nitrophenol	109	7.675	7.675	(1.028)	56777	50.0000	51.41
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	148875	50.0000	53.18
91 Fluorene	166	8.131	8.131	(1.089)	494097	50.0000	51.01
92 Diethylphthalate	149	8.100	8.100	(1.085)	487067	50.0000	51.96
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	209308	50.0000	51.97
94 4-Nitroaniline	138	8.214	8.214	(1.100)	135397	50.0000	51.31
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	76137	50.0000	46.58
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	409666	58.6000	58.41
100 Azobenzene	77	8.348	8.348	(0.888)	459960	50.0000	50.55
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	115283	50.0000	51.04
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	124963	50.0000	49.54
110 Pentachlorophenol	266	9.240	9.240	(0.982)	67882	50.0000	45.48
114 Phenanthrene	178	9.437	9.437	(1.003)	718164	50.0000	49.24
115 Anthracene	178	9.499	9.499	(1.010)	728681	50.0000	50.01
118 Carbazole	167	9.768	9.768	(1.039)	660885	50.0000	49.65
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	799142	50.0000	49.90
126 Fluoranthene	202	11.302	11.302	(1.202)	639252	50.0000	48.92
127 Benzidine	184	11.571	11.571	(0.840)	450332	50.0000	50.98
128 Pyrene	202	11.665	11.665	(0.847)	701084	50.0000	51.46
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	385489	50.0000	49.44
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	340978	50.0000	49.94
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	569271	50.0000	49.03
139 Chrysene	228	13.831	13.831	(1.004)	597685	50.0000	50.33
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	217413	50.0000	49.65
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	464144	50.0000	49.35
142 Di-n-octylphthalate	149	15.167	15.167	(1.101)	732406	50.0000	48.72
144 Benzo (b) fluoranthene	252	15.582	15.582	(0.964)	527487	50.0000	55.18
145 Benzo (k) fluoranthene	252	15.623	15.623	(0.967)	580084	50.0000	47.27
147 Benzo (e) pyrene	252	16.007	16.007	(0.990)	506622	50.0000	50.82
148 Benzo (a) pyrene	252	16.079	16.079	(0.995)	542578	50.0000	50.06
151 Indeno (1,2,3-cd) pyrene	276	17.800	17.800	(1.101)	447085	50.0000	51.00 (M)
152 Dibenzo (a, h) anthracene	278	17.841	17.841	(1.104)	486893	50.0000	49.72
153 Benzo (g, h, i) perylene	276	18.235	18.235	(1.128)	527720	50.0000	49.77

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					1107571	50.0000	50.74 (A)

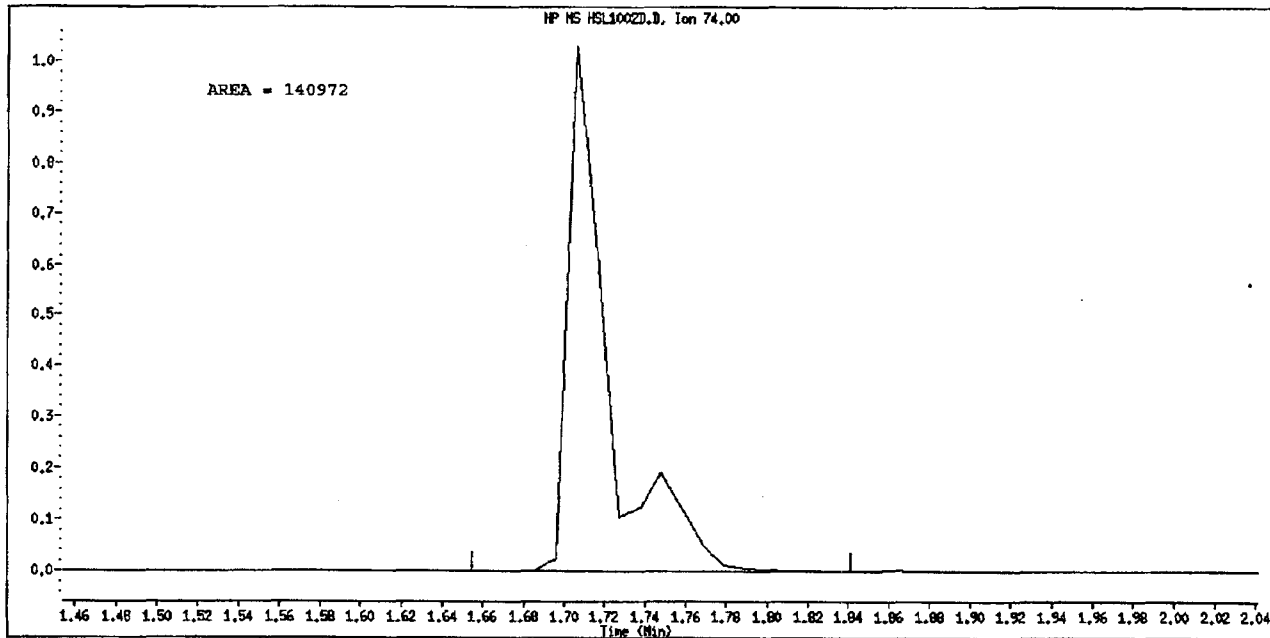
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 10/03/2010



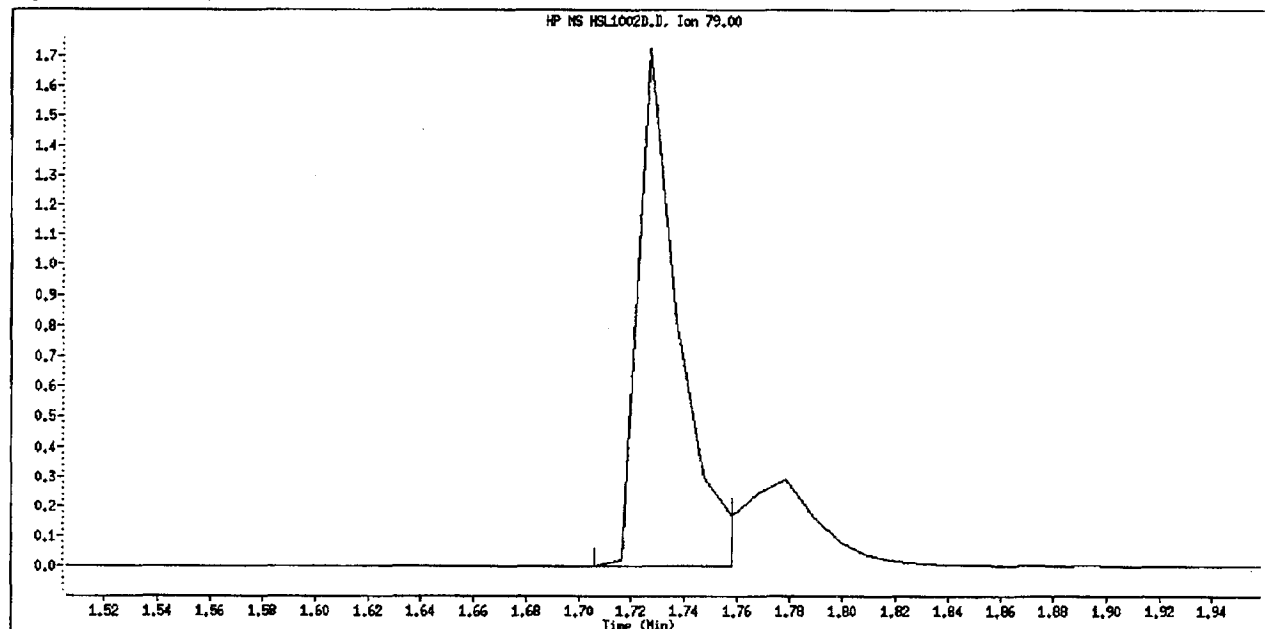
Original Integration



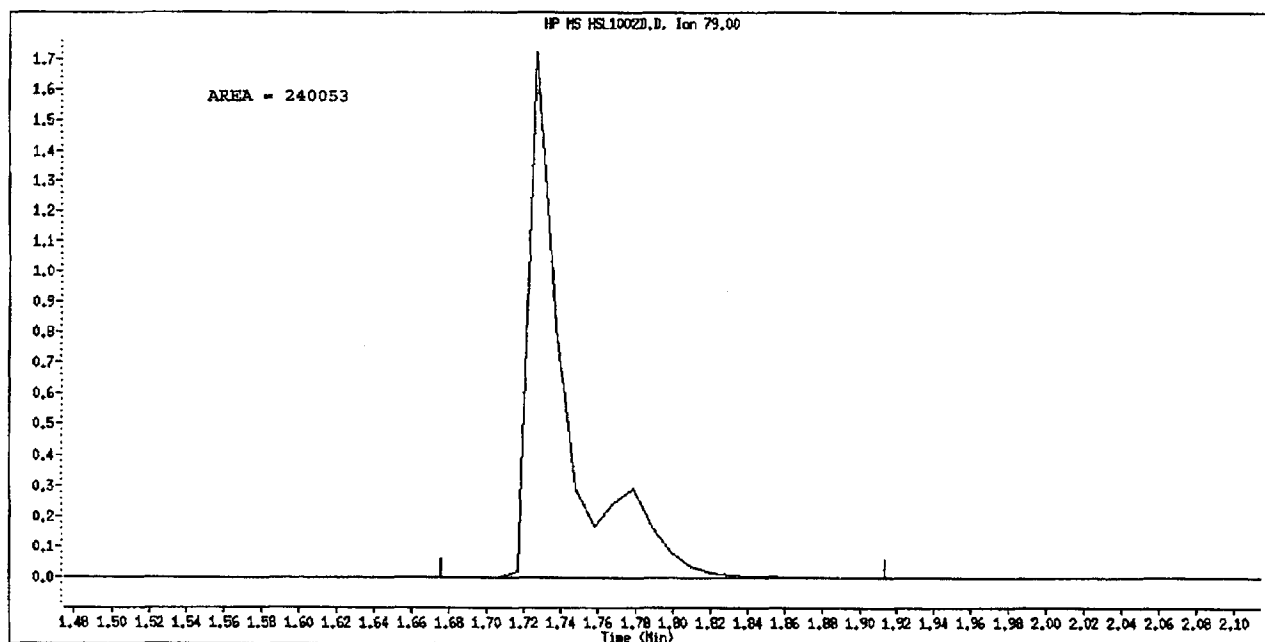
Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 10/03/2010



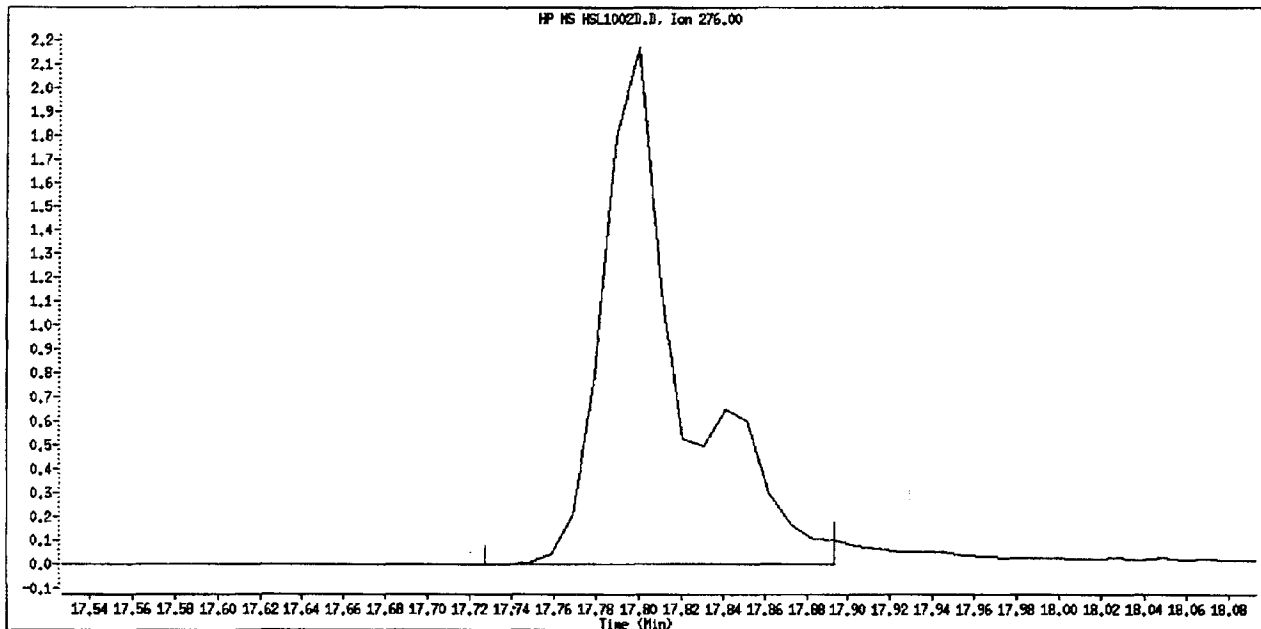
Original Integration



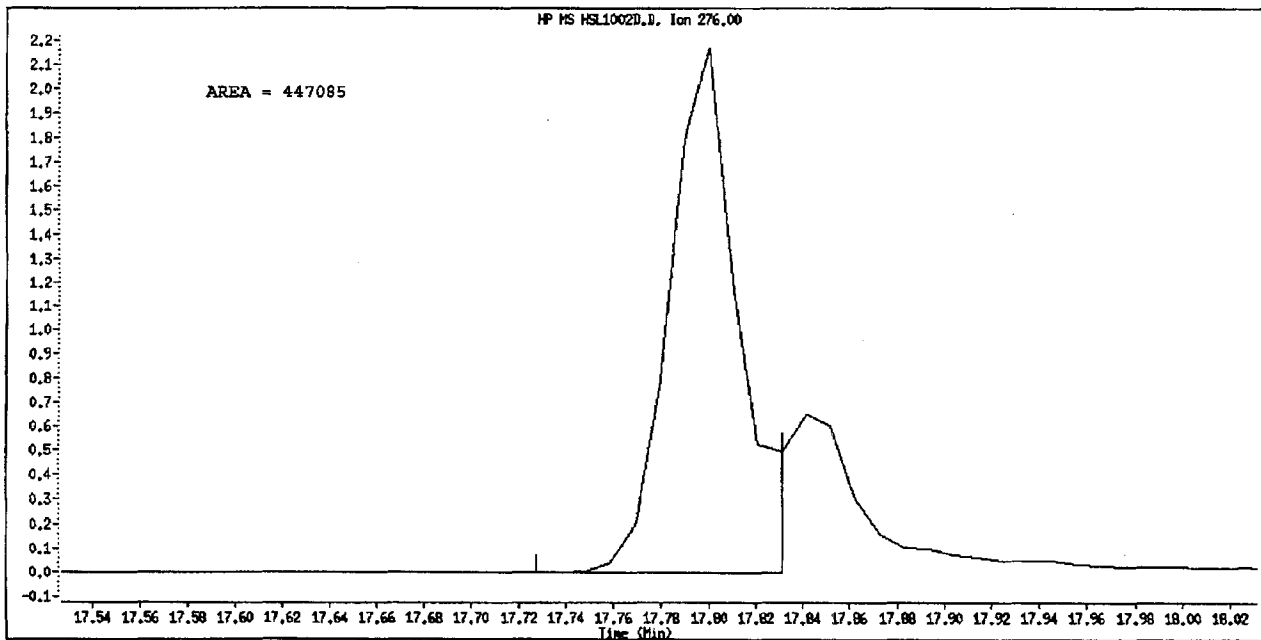
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D
 Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 13:44
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_050 ug/ml CS-4;1;;4;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT (NG)	ON-COL (NG)
			MASS	RT	EXP RT	REL RT			RESPONSE
* 1 1,4-Dichlorobenzene-d4	152		3.955	3.955	(1.000)	122625	40.0000	
* 2 Naphthalene-d8	136		5.374	5.374	(1.000)	530514	40.0000	
* 3 Acenaphthene-d10	164		7.468	7.468	(1.000)	282538	40.0000	
* 4 Phenanthrene-d10	188		9.405	9.405	(1.000)	462722	40.0000	
* 5 Chrysene-d12	240		13.779	13.779	(1.000)	435850	40.0000	
* 6 Perylene-d12	264		16.162	16.162	(1.000)	422284	40.0000	
\$ 7 2-Fluorophenol	112		2.732	2.732	(0.691)	220986	50.0000	48.83
\$ 8 Phenol-d5	99		3.613	3.613	(0.914)	274382	50.0000	47.67
\$ 9 2-Chlorophenol-d4	132		3.758	3.758	(0.950)	244352	50.0000	49.80
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	151616	50.0000	49.50
\$ 11 Nitrobenzene-d5	82		4.576	4.576	(0.852)	226162	50.0000	48.07
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	473978	50.0000	52.38
\$ 13 2,4,6-Tribromophenol	330		8.473	8.473	(1.135)	63311	50.0000	56.75
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	438253	50.0000	51.56
15 N-Nitrosodimethylamine	74		1.706	1.706	(0.431)	105836	50.0000	35.43
16 Pyridine	79		1.726	1.726	(0.437)	182664	50.0000	36.70
23 Aniline	93		3.654	3.654	(0.924)	346504	50.0000	48.01
24 Phenol	94		3.623	3.623	(0.916)	311820	50.0000	50.94
26 Bis(2-chloroethyl)ether	93		3.716	3.716	(0.940)	220455	50.0000	47.40
27 2-Chlorophenol	128		3.768	3.768	(0.953)	242442	50.0000	50.05
28 1,3-Dichlorobenzene	146		3.923	3.923	(0.992)	265384	50.0000	49.58
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	271151	50.0000	50.11
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	160914	50.0000	48.35
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	257606	50.0000	50.23
32 2-Methylphenol	108		4.255	4.255	(1.076)	218610	50.0000	48.31
33 2,2'-oxybis(1-Chloropropane)	45		4.297	4.297	(1.086)	349371	50.0000	40.48
34 4-Methylphenol	108		4.421	4.421	(1.118)	233354	50.0000	48.39
36 Hexachloroethane	117		4.504	4.504	(1.139)	94106	50.0000	49.29
37 N-Nitrosodipropylamine	70		4.442	4.442	(1.123)	156914	50.0000	46.48
42 Nitrobenzene	77		4.597	4.597	(0.855)	219387	50.0000	46.91
44 Isophorone	82		4.856	4.856	(0.904)	420061	50.0000	47.38
45 2-Nitrophenol	139		4.960	4.960	(0.923)	132771	50.0000	52.00
46 2,4-Dimethylphenol	107		5.012	5.012	(0.933)	231517	50.0000	48.84

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	48.05
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	51.39
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	48.58
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	197265	50.0000	52.15
52 Naphthalene	128	5.395	5.395	(1.004)	724980	50.0000	49.10
54 4-Chloroaniline	127	5.488	5.488	(1.021)	291184	50.0000	50.12
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	95592	50.0000	53.11
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	205388	50.0000	51.16
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	464646	50.0000	51.57
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	104908	50.0000	48.68
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	113001	50.0000	52.83
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	128196	50.0000	54.56
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	403257	50.0000	50.91
73 2-Nitroaniline	65	6.949	6.949	(0.931)	124335	50.0000	46.87
76 Dimethylphthalate	163	7.229	7.229	(0.968)	475258	50.0000	51.95
77 Acenaphthylene	152	7.281	7.281	(0.975)	712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	110261	50.0000	53.82
80 3-Nitroaniline	138	7.447	7.447	(0.997)	141396	50.0000	52.05
81 Acenaphthene	153	7.509	7.509	(1.006)	448691	50.0000	50.85
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	58864	50.0000	48.70
83 Dibenzofuran	168	7.706	7.706	(1.032)	598735	50.0000	51.36
84 4-Nitrophenol	109	7.675	7.675	(1.028)	56777	50.0000	47.87
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	148875	50.0000	54.24
91 Fluorene	166	8.131	8.131	(1.089)	494097	50.0000	51.73
92 Diethylphthalate	149	8.100	8.100	(1.085)	487067	50.0000	50.93
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	209308	50.0000	53.15
94 4-Nitroaniline	138	8.214	8.214	(1.100)	135397	50.0000	50.99
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	76137	50.0000	46.45
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	409666	58.6000	56.82
100 Azobenzene	77	8.348	8.348	(0.888)	459960	50.0000	45.85
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	115283	50.0000	51.56
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	124963	50.0000	51.74
110 Pentachlorophenol	266	9.240	9.240	(0.982)	67882	50.0000	46.83
114 Phenanthrene	178	9.437	9.437	(1.003)	718164	50.0000	49.76
115 Anthracene	178	9.499	9.499	(1.010)	728681	50.0000	50.17
118 Carbazole	167	9.768	9.768	(1.039)	660885	50.0000	48.92
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	799142	50.0000	48.91
126 Fluoranthene	202	11.302	11.302	(1.202)	639252	50.0000	49.21
127 Benzidine	184	11.571	11.571	(0.840)	450332	50.0000	50.32
128 Pyrene	202	11.665	11.665	(0.847)	701084	50.0000	51.44
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	385489	50.0000	50.19
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	340978	50.0000	48.97
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	569271	50.0000	49.51
139 Chrysene	228	13.831	13.831	(1.004)	597685	50.0000	50.03
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	217413	50.0000	51.67
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	464144	50.0000	48.41
142 Di-n-octylphthalate	149	15.167	15.167	(1.101)	732406	50.0000	47.78
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	527487	50.0000	52.68
145 Benzo(k)fluoranthene	252	15.623	15.623	(0.967)	580084	50.0000	49.57
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	506622	50.0000	51.04
148 Benzo(a)pyrene	252	16.079	16.079	(0.995)	542578	50.0000	49.78
151 Indeno(1,2,3-cd)pyrene	276	17.800	17.800	(1.101)	564014	50.0000	58.49
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	486893	50.0000	49.27
153 Benzo(g,h,i)perylene	276	18.235	18.235	(1.128)	527720	50.0000	49.81

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1107571	50.0000	51.00 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002D.D
 Lab Smp Id: HSL 050 ug/ml CS-4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

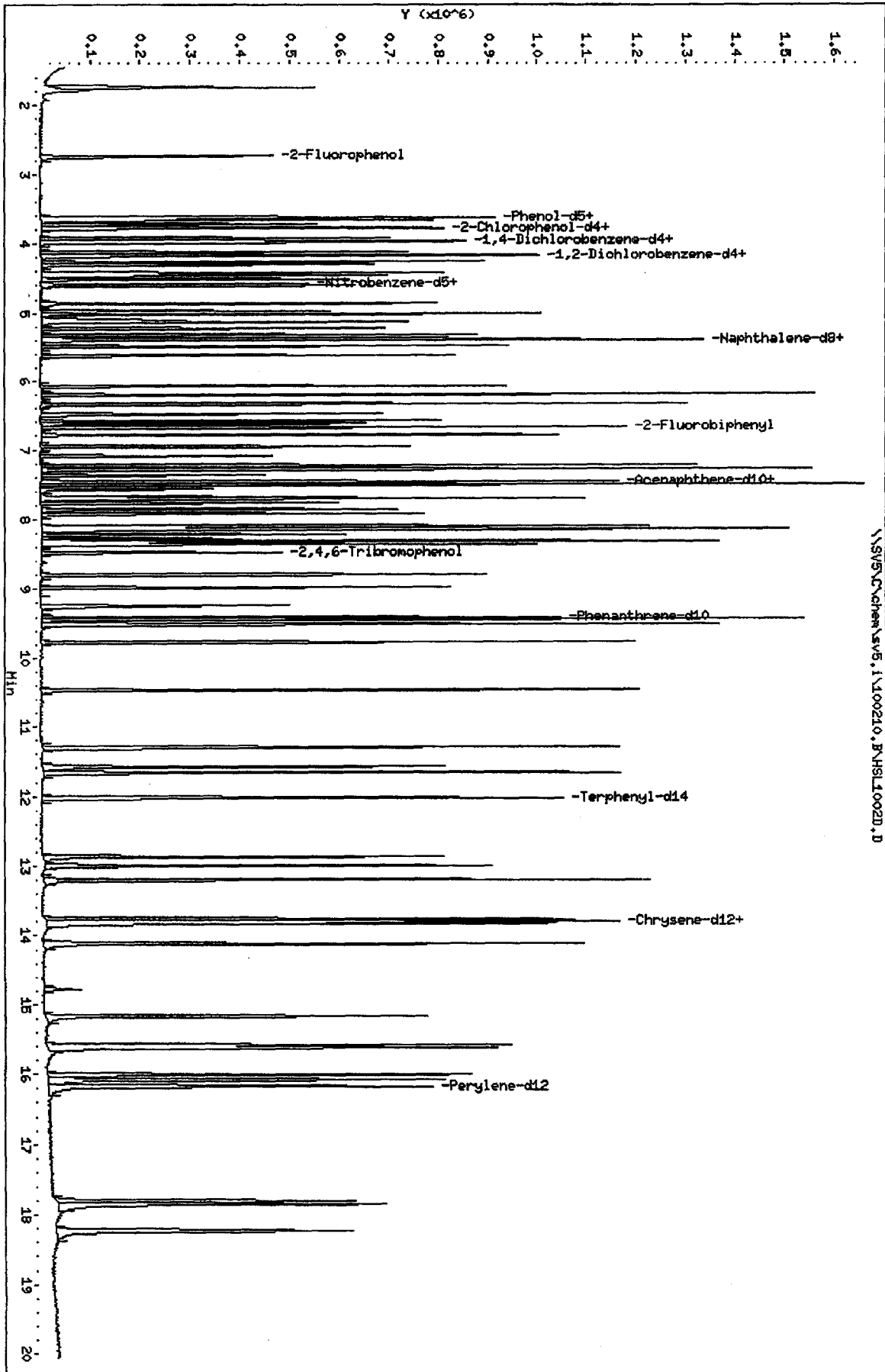
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	122625	0.00
2 Naphthalene-d8	530514	265257	1061028	530514	0.00
3 Acenaphthene-d10	282538	141269	565076	282538	0.00
4 Phenanthrene-d10	462722	231361	925444	462722	0.00
5 Chrysene-d12	435850	217925	871700	435850	0.00
6 Perylene-d12	422284	211142	844568	422284	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS5\chem\sv5.1\100210.B\HSL1002D.D
 Date: 02-07-2010 13:44
 Client ID: B270F.H
 Sample Info: HSL_050 ug/ml CS-4111141114
 Column phase:

Instrument: sv5.1
 Operator: KT
 Column diameter: 2.00



\\SVS5\chem\sv5.1\100210.B\HSL1002D.D

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D
 Lab Smp Id: HSL_080 ug/ml CS-5 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 14:09
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_080 ug/ml CS-5;1;;5;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT	SIG	MASS	RT	RXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152		3.954	3.955	(1.000)	126989	40.0000		(q)
* 2 Naphthalene-d8	136		5.374	5.374	(1.000)	553454	40.0000		
* 3 Acenaphthene-d10	164		7.468	7.468	(1.000)	300315	40.0000		
* 4 Phenanthrene-d10	188		9.405	9.405	(1.000)	477777	40.0000		
* 5 Chrysene-d12	240		13.789	13.779	(1.000)	486126	40.0000		
* 6 Perylene-d12	264		16.162	16.162	(1.000)	482782	40.0000		
\$ 7 2-Fluorophenol	112		2.742	2.732	(0.693)	364547	80.0000		81.44
\$ 8 Phenol-d5	99		3.612	3.613	(0.914)	459352	80.0000		81.61
\$ 9 2-Chlorophenol-d4	132		3.758	3.758	(0.950)	399981	80.0000		80.92
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	252754	80.0000		80.82
\$ 11 Nitrobenzene-d5	82		4.587	4.576	(0.853)	371989	80.0000		79.35
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	755916	80.0000		78.14
\$ 13 2,4,6-Tribromophenol	330		8.483	8.473	(1.136)	107063	80.0000		82.04
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.871)	758812	80.0000		79.25
15 N-Nitrosodimethylamine	74		1.706	1.706	(0.431)	236570	80.0000		80.86(q)
16 Pyridine	79		1.726	1.726	(0.437)	386806	80.0000		79.06(Q)
23 Aniline	93		3.654	3.654	(0.924)	583513	80.0000		81.44(Q)
24 Phenol	94		3.623	3.623	(0.916)	524930	80.0000		81.16(Q)
26 Bis(2-chloroethyl)ether	93		3.716	3.716	(0.940)	362044	80.0000		79.83
27 2-Chlorophenol	128		3.768	3.768	(0.953)	398210	80.0000		80.21
28 1,3-Dichlorobenzene	146		3.923	3.923	(0.992)	428311	80.0000		79.20
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	452588	80.0000		80.04
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	273768	80.0000		82.05
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	415025	80.0000		79.84
32 2-Methylphenol	108		4.255	4.255	(1.076)	369704	80.0000		81.43
33 2,2'-oxybis(1-Chloropropane)	45		4.296	4.297	(1.086)	576575	80.0000		79.88
34 4-Methylphenol	108		4.421	4.421	(1.118)	387704	80.0000		80.39
36 Hexachloroethane	117		4.504	4.504	(1.139)	153472	80.0000		79.72
37 N-Nitrosodipropylamine	70		4.442	4.442	(1.123)	265916	80.0000		82.78
42 Nitrobenzene	77		4.597	4.597	(0.855)	369479	80.0000		80.64
44 Isophorone	82		4.856	4.856	(0.904)	704520	80.0000		79.96
45 2-Nitrophenol	139		4.960	4.960	(0.923)	221628	80.0000		81.52
46 2,4-Dimethylphenol	107		5.011	5.012	(0.933)	385073	80.0000		79.72

10-3-10

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.954)	426158	80.0000	79.16
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	301897	80.0000	80.78
50 Benzoic Acid	122	5.125	5.115	(0.954)	232711	80.0000	87.04
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	323096	80.0000	79.84
52 Naphthalene	128	5.395	5.395	(1.004)	1216155	80.0000	79.58
54 4-Chloroaniline	127	5.488	5.488	(1.021)	484619	80.0000	80.91
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	159233	80.0000	80.41
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	335335	80.0000	80.35
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	781029	80.0000	81.36
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	181608	80.0000	81.05
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	194036	80.0000	80.98
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	211635	80.0000	81.99
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	668023	80.0000	79.04
73 2-Nitroaniline	65	6.949	6.949	(0.931)	209144	80.0000	81.65
76 Dimethylphthalate	163	7.229	7.229	(0.968)	787815	80.0000	80.96
77 Acenaphthylene	152	7.281	7.281	(0.975)	1190475	80.0000	80.88
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	187961	80.0000	82.91
80 3-Nitroaniline	138	7.457	7.447	(0.999)	232287	80.0000	82.09
81 Acenaphthene	153	7.509	7.509	(1.006)	727612	80.0000	77.66
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	110384	80.0000	78.64
83 Dibenzofuran	168	7.706	7.706	(1.032)	991740	80.0000	79.76 (q)
84 4-Nitrophenol	109	7.675	7.675	(1.028)	102888	80.0000	87.65 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	246471	80.0000	82.83
91 Fluorene	166	8.131	8.131	(1.089)	834271	80.0000	81.03
92 Diethylphthalate	149	8.100	8.100	(1.085)	792071	80.0000	79.50
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	340608	80.0000	79.56
94 4-Nitroaniline	138	8.224	8.214	(1.101)	235541	80.0000	83.97
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	134784	80.0000	76.76
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	695826	93.7000	96.08
100 Azobenzene	77	8.348	8.348	(0.888)	765053	80.0000	81.43
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	187352	80.0000	80.33
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	207655	80.0000	79.72
110 Pentachlorophenol	266	9.240	9.240	(0.982)	126397	80.0000	78.86
114 Phenanthrene	178	9.437	9.437	(1.003)	1188468	80.0000	78.92
115 Anthracene	178	9.509	9.499	(1.011)	1218608	80.0000	81.00
118 Carbazole	167	9.768	9.768	(1.039)	1118637	80.0000	81.39
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	1351860	80.0000	81.75
126 Fluoranthene	202	11.302	11.302	(1.202)	1107116	80.0000	82.05
127 Benzidine	184	11.571	11.571	(0.839)	799205	80.0000	81.12
128 Pyrene	202	11.665	11.665	(0.846)	1221015	80.0000	80.36
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.933)	715866	80.0000	82.31
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	598812	80.0000	78.63
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	1034950	80.0000	79.92
139 Chrysene	228	13.830	13.831	(1.003)	1040163	80.0000	78.52
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	392335	80.0000	80.33
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	820296	80.0000	78.20
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	1354893	80.0000	80.80
144 Benzo (b) fluoranthene	252	15.582	15.582	(0.964)	920884	80.0000	84.26 (Q)
145 Benzo (k) fluoranthene	252	15.623	15.623	(0.967)	1102899	80.0000	78.61 (q)
147 Benzo (e) pyrene	252	16.007	16.007	(0.990)	936566	80.0000	82.18
148 Benzo (a) pyrene	252	16.079	16.079	(0.995)	1039045	80.0000	83.86
151 Indeno (1,2,3-cd) pyrene	276	17.799	17.800	(1.101)	811625	80.0000	80.99
152 Dibenzo (a, h) anthracene	278	17.851	17.841	(1.105)	926841	80.0000	82.79
153 Benzo (g, h, i) perylene	276	18.235	18.235	(1.128)	982275	80.0000	81.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				2023783	80.0000	81.09 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D
 Lab Smp Id: HSL_080 ug/ml CS-5 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 14:09
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_080 ug/ml CS-5;1;;5;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4		152	3.954	3.955 (1.000)		126989	40.0000	(g)
* 2 Naphthalene-d8		136	5.374	5.374 (1.000)		553454	40.0000	
* 3 Acenaphthene-d10		164	7.468	7.468 (1.000)		300315	40.0000	
* 4 Phenanthrene-d10		188	9.405	9.405 (1.000)		477777	40.0000	
* 5 Chrysene-d12		240	13.789	13.779 (1.000)		486126	40.0000	
* 6 Perylene-d12		264	16.162	16.162 (1.000)		482782	40.0000	
\$ 7 2-Fluorophenol		112	2.742	2.732 (0.693)		364547	80.0000	77.78
\$ 8 Phenol-d5		99	3.612	3.613 (0.914)		459352	80.0000	77.07
\$ 9 2-Chlorophenol-d4		132	3.758	3.758 (0.950)		399981	80.0000	78.71
\$ 10 1,2-Dichlorobenzene-d4		152	4.162	4.162 (1.052)		252754	80.0000	79.68
\$ 11 Nitrobenzene-d5		82	4.587	4.576 (0.853)		371989	80.0000	75.79
\$ 12 2-Fluorobiphenyl		172	6.680	6.680 (0.895)		755916	80.0000	78.58
\$ 13 2,4,6-Tribromophenol		330	8.483	8.473 (1.136)		107063	80.0000	90.29
\$ 14 Terphenyl-d14		244	12.017	12.017 (0.871)		758812	80.0000	80.04
15 N-Nitrosodimethylamine		74	1.706	1.706 (0.431)		236570	80.0000	76.48
16 Pyridine		79	1.726	1.726 (0.437)		386806	80.0000	75.04
23 Aniline		93	3.654	3.654 (0.924)		583513	80.0000	78.07 (Q)
24 Phenol		94	3.623	3.623 (0.916)		524930	80.0000	82.81 (Q)
26 Bis(2-chloroethyl) ether		93	3.716	3.716 (0.940)		362044	80.0000	75.18
27 2-Chlorophenol		128	3.768	3.768 (0.953)		398210	80.0000	79.39
28 1,3-Dichlorobenzene		146	3.923	3.923 (0.992)		428311	80.0000	77.27
29 1,4-Dichlorobenzene		146	3.975	3.975 (1.005)		452588	80.0000	80.76
30 Benzyl Alcohol		108	4.120	4.120 (1.042)		273768	80.0000	79.43
31 1,2-Dichlorobenzene		146	4.172	4.172 (1.055)		415025	80.0000	78.14
32 2-Methylphenol		108	4.255	4.255 (1.076)		369704	80.0000	78.90
33 2,2'-oxybis(1-Chloropropane)		45	4.296	4.297 (1.086)		576575	80.0000	64.50
34 4-Methylphenol		108	4.421	4.421 (1.118)		387704	80.0000	77.63
36 Hexachloroethane		117	4.504	4.504 (1.139)		153472	80.0000	77.62
37 N-Nitrosodipropylamine		70	4.442	4.442 (1.123)		265916	80.0000	76.06
42 Nitrobenzene		77	4.597	4.597 (0.855)		369479	80.0000	75.74
44 Isophorone		82	4.856	4.856 (0.904)		704520	80.0000	76.17
45 2-Nitrophenol		139	4.960	4.960 (0.923)		221628	80.0000	83.21
46 2,4-Dimethylphenol		107	5.011	5.012 (0.933)		385073	80.0000	77.86

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.954)	426158	80.0000	77.39
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	301897	80.0000	82.94
50 Benzoic Acid	122	5.125	5.115	(0.954)	232711	80.0000	84.41
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	323096	80.0000	81.88
52 Naphthalene	128	5.395	5.395	(1.004)	1216155	80.0000	78.94
54 4-Chloroaniline	127	5.488	5.488	(1.021)	484619	80.0000	79.97
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	159233	80.0000	84.81
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	335335	80.0000	80.06
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	781029	80.0000	83.09
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	181608	80.0000	79.29
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	194036	80.0000	85.34
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	211635	80.0000	84.74
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	668023	80.0000	79.34
73 2-Nitroaniline	65	6.949	6.949	(0.931)	209144	80.0000	74.17
76 Dimethylphthalate	163	7.229	7.229	(0.968)	787815	80.0000	81.01
77 Acenaphthylene	152	7.281	7.281	(0.975)	1190475	80.0000	80.88
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	187961	80.0000	86.31
80 3-Nitroaniline	138	7.457	7.447	(0.999)	232287	80.0000	80.44
81 Acenaphthene	153	7.509	7.509	(1.006)	727612	80.0000	77.58
82 2,4-Dinitrophenol	184	7.571	7.571	(1.014)	110384	80.0000	81.10
83 Dibenzofuran	168	7.706	7.706	(1.032)	991740	80.0000	80.04 (q)
84 4-Nitrophenol	109	7.675	7.675	(1.028)	102888	80.0000	81.61 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	246471	80.0000	84.49
91 Fluorene	166	8.131	8.131	(1.089)	834271	80.0000	82.18
92 Diethylphthalate	149	8.100	8.100	(1.085)	792071	80.0000	77.92
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	340608	80.0000	81.38
94 4-Nitroaniline	138	8.224	8.214	(1.101)	235541	80.0000	83.45
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	134784	80.0000	75.96
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	695826	93.7000	93.46
100 Azobenzene	77	8.348	8.348	(0.888)	765053	80.0000	73.86
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	187352	80.0000	81.15
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	207655	80.0000	83.28
110 Pentachlorophenol	266	9.240	9.240	(0.982)	126397	80.0000	84.45
114 Phenanthrene	178	9.437	9.437	(1.003)	1188468	80.0000	79.75
115 Anthracene	178	9.509	9.499	(1.011)	1218608	80.0000	81.25
118 Carbazole	167	9.768	9.768	(1.039)	1118637	80.0000	80.19
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	1351860	80.0000	80.14
126 Fluoranthene	202	11.302	11.302	(1.202)	1107116	80.0000	82.54
127 Benzidine	184	11.571	11.571	(0.839)	799205	80.0000	80.06
128 Pyrene	202	11.665	11.665	(0.846)	1221015	80.0000	80.33
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.933)	715866	80.0000	83.56
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	598812	80.0000	77.10
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	1034950	80.0000	80.70
139 Chrysene	228	13.830	13.831	(1.003)	1040163	80.0000	78.06
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	392335	80.0000	83.60
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.023)	820296	80.0000	76.71
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	1354893	80.0000	79.24
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	920884	80.0000	80.44 (Q)
145 Benzo(k)fluoranthene	252	15.623	15.623	(0.967)	1102899	80.0000	82.44 (q)
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	936566	80.0000	82.53
148 Benzo(a)pyrene	252	16.079	16.079	(0.995)	1039045	80.0000	83.39
151 Indeno(1,2,3-cd)pyrene	276	17.799	17.800	(1.101)	811625	80.0000	73.62
152 Dibenzo(a,h)anthracene	278	17.851	17.841	(1.105)	926841	80.0000	82.04
153 Benzo(g,h,i)perylene	276	18.235	18.235	(1.128)	982275	80.0000	81.10

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	(NG)	(NG)	
M 162 benzo b,k Fluoranthene Totals	252				2023783	80.0000	81.52 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002E.D
 Lab Smp Id: HSL 080 ug/ml CS-5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

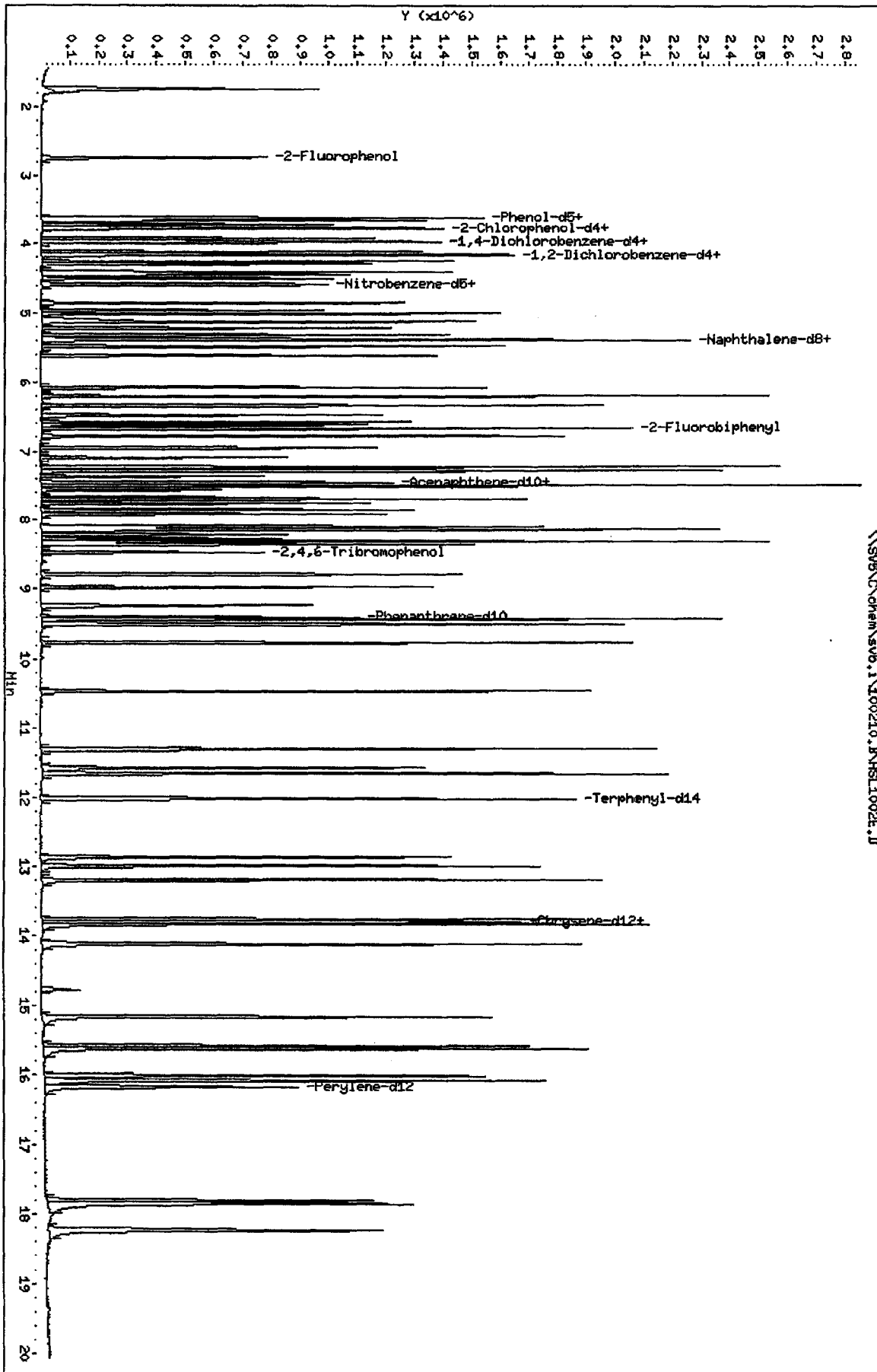
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	126989	3.56
2 Naphthalene-d8	530514	265257	1061028	553454	4.32
3 Acenaphthene-d10	282538	141269	565076	300315	6.29
4 Phenanthrene-d10	462722	231361	925444	477777	3.25
5 Chrysene-d12	435850	217925	871700	486126	11.54
6 Perylene-d12	422284	211142	844568	482782	14.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.1\100210_BNHSL1002E.D
Date: 02-DEC-2010 14:09
Client ID: 8270F.H
Sample Info: HSL_080 ug/ml CS-51155114

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 14:35
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0312;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955	(1.000)	137751	40.0000	(Q)	
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	591665	40.0000		
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	322596	40.0000		
* 4 Phenanthrene-d10	188	9.406	9.405	(1.000)	515607	40.0000		
* 5 Chrysene-d12	240	13.789	13.779	(1.000)	509570	40.0000		
* 6 Perylene-d12	264	16.173	16.162	(1.000)	539588	40.0000		
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	588028	120.000	121.1	
\$ 8 Phenol-d5	99	3.613	3.613	(0.914)	759824	120.000	124.4	
\$ 9 2-Chlorophenol-d4	132	3.758	3.758	(0.950)	652805	120.000	121.7	
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	407247	120.000	120.0	
\$ 11 Nitrobenzene-d5	82	4.587	4.576	(0.853)	623501	120.000	124.4	
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	1255441	120.000	120.8	
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473	(1.136)	179055	120.000	127.7	
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.871)	1251844	120.000	124.7	
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	388111	120.000	122.3 (q)	
16 Pyridine	79	1.727	1.726	(0.437)	633334	120.000	119.3 (Q)	
23 Aniline	93	3.654	3.654	(0.924)	964533	120.000	124.1 (Q)	
24 Phenol	94	3.623	3.623	(0.916)	851671	120.000	121.4 (Q)	
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	596323	120.000	121.2	
27 2-Chlorophenol	128	3.768	3.768	(0.953)	653244	120.000	121.3	
28 1,3-Dichlorobenzene	146	3.924	3.923	(0.992)	712032	120.000	121.4	
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	740915	120.000	120.8	
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	450249	120.000	124.4	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	679448	120.000	120.5	
32 2-Methylphenol	108	4.255	4.255	(1.076)	603987	120.000	122.6	
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	941514	120.000	120.2	
34 4-Methylphenol	108	4.421	4.421	(1.118)	644202	120.000	123.1	
36 Hexachloroethane	117	4.504	4.504	(1.139)	245394	120.000	117.5	
37 N-Nitrosodimethylamine	70	4.452	4.442	(1.126)	428242	120.000	122.9	
42 Nitrobenzene	77	4.607	4.597	(0.857)	593736	120.000	121.2	
44 Isophorone	82	4.867	4.856	(0.906)	1179801	120.000	125.2	
45 2-Nitrophenol	139	4.960	4.960	(0.923)	367467	120.000	126.4	
46 2,4-Dimethylphenol	107	5.012	5.012	(0.933)	638328	120.000	123.6	

10-3-10

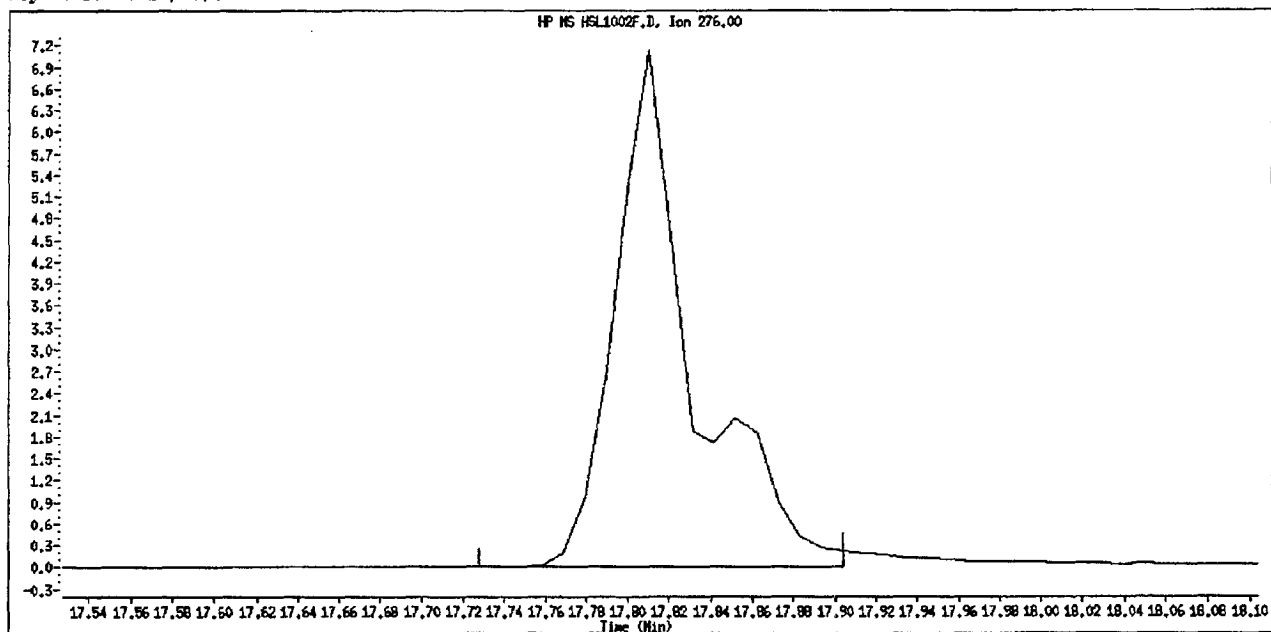
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2
50 Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	531764	120.000	122.9
52 Naphthalene	128	5.395	5.395	(1.004)	2020315	120.000	123.7
54 4-Chloroaniline	127	5.488	5.488	(1.021)	797064	120.000	124.5
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	255231	120.000	120.6
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	563840	120.000	126.4
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1263302	120.000	123.1
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	312226	120.000	129.7
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.882)	331223	120.000	128.7
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	343374	120.000	123.8
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	1107604	120.000	122.0
73 2-Nitroaniline	65	6.950	6.949	(0.931)	346408	120.000	125.9
76 Dimethylphthalate	163	7.229	7.229	(0.968)	1286101	120.000	123.0
77 Acenaphthylene	152	7.281	7.281	(0.975)	1933504	120.000	122.3
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	311050	120.000	127.7
80 3-Nitroaniline	138	7.457	7.447	(0.999)	382849	120.000	125.9
81 Acenaphthene	153	7.509	7.509	(1.006)	1207616	120.000	120.0
82 2,4-Dinitrophenol	184	7.582	7.572	(1.015)	199007	120.000	124.7
83 Dibenzofuran	168	7.706	7.706	(1.032)	1630240	120.000	122.0(q)
84 4-Nitrophenol	109	7.675	7.675	(1.028)	161169	120.000	127.8(Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	409418	120.000	128.1
91 Fluorene	166	8.131	8.131	(1.089)	1333949	120.000	120.6
92 Diethylphthalate	149	8.110	8.100	(1.086)	1329206	120.000	124.2
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	558370	120.000	121.4
94 4-Nitroaniline	138	8.224	8.214	(1.101)	378421	120.000	125.6
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	236477	120.000	122.1
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	1123239	141.000	143.7
100 Azobenzene	77	8.359	8.348	(0.889)	1266722	120.000	124.9
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	318358	120.000	126.5
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	335728	120.000	119.4
110 Pentachlorophenol	266	9.240	9.240	(0.982)	215360	120.000	122.2
114 Phenanthrene	178	9.437	9.437	(1.003)	1942962	120.000	119.6
115 Anthracene	178	9.509	9.499	(1.011)	2014183	120.000	124.0
118 Carbazole	167	9.768	9.768	(1.039)	1828217	120.000	123.3
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	2225048	120.000	124.7
126 Fluoranthene	202	11.302	11.302	(1.202)	1829791	120.000	125.6
127 Benzidine	184	11.582	11.571	(0.840)	1320429	120.000	127.8
128 Pyrene	202	11.665	11.665	(0.846)	1963825	120.000	123.3
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1214012	120.000	133.2
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	997218	120.000	124.9
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	1694281	120.000	124.8
139 Chrysene	228	13.831	13.831	(1.003)	1715841	120.000	123.6
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.001)	653016	120.000	127.5
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.023)	1368794	120.000	124.5
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	2256614	120.000	128.4
144 Benzo(b)Fluoranthene	252	15.592	15.582	(0.964)	1475217	120.000	120.8(Q)
145 Benzo(k)Fluoranthene	252	15.623	15.623	(0.966)	1935987	120.000	123.5(q)
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	1569049	120.000	123.2
148 Benzo(a)pyrene	252	16.079	16.079	(0.994)	1720343	120.000	124.2
151 Indeno(1,2,3-cd)pyrene	276	17.810	17.800	(1.101)	1517263	120.000	135.5(M)
152 Dibenzo(a,h)anthracene	278	17.851	17.841	(1.104)	1634040	120.000	130.6
153 Benzo(g,h,i)perylene	276	18.245	18.235	(1.128)	1706123	120.000	125.9

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
=====	====	====	=====	=====	(NG)	(NG)	
M 162 benzo b,k Fluoranthene Totals	252				3411204	120.000	122.3 (A)

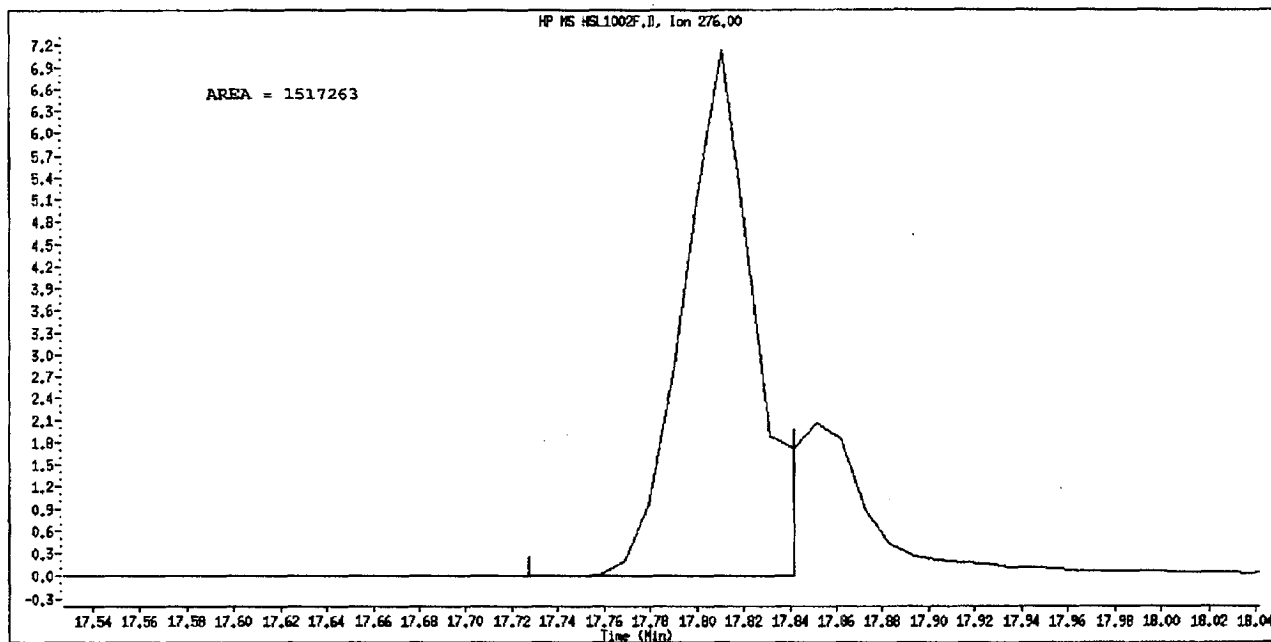
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002F.D
Inj. Date and Time: 02-OCT-2010 14:35
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D
 Lab Smp Id: HSL_120 ug/ml CS-6 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 14:35
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_120 ug/ml CS-6;1;;6;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.955	3.955	(1.000)	137751	40.0000	(Q)
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	591665	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	322596	40.0000	
* 4 Phenanthrene-d10	188	9.406	9.405	(1.000)	515607	40.0000	
* 5 Chrysene-d12	240	13.789	13.779	(1.000)	509570	40.0000	
* 6 Perylene-d12	264	16.173	16.162	(1.000)	539588	40.0000	
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	588028	120.000	115.7
\$ 8 Phenol-d5	99	3.613	3.613	(0.914)	759824	120.000	117.5
\$ 9 2-Chlorophenol-d4	132	3.758	3.758	(0.950)	652805	120.000	118.4
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	407247	120.000	118.4
\$ 11 Nitrobenzene-d5	82	4.587	4.576	(0.853)	623501	120.000	118.8
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	1255441	120.000	121.5
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473	(1.136)	179055	120.000	140.6
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.871)	1251844	120.000	126.0
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	388111	120.000	115.7
16 Pyridine	79	1.727	1.726	(0.437)	633334	120.000	113.3
23 Aniline	93	3.654	3.654	(0.924)	964533	120.000	119.0 (Q)
24 Phenol	94	3.623	3.623	(0.916)	851671	120.000	123.8 (Q)
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	596323	120.000	114.2
27 2-Chlorophenol	128	3.768	3.768	(0.953)	653244	120.000	120.0
28 1,3-Dichlorobenzene	146	3.924	3.923	(0.992)	712032	120.000	118.4
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	740915	120.000	121.9
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	450249	120.000	120.4
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	679448	120.000	117.9
32 2-Methylphenol	108	4.255	4.255	(1.076)	603987	120.000	118.8
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	941514	120.000	97.10
34 4-Methylphenol	108	4.421	4.421	(1.118)	644202	120.000	118.9
36 Hexachloroethane	117	4.504	4.504	(1.139)	245394	120.000	114.4
37 N-Nitrosodipropylamine	70	4.452	4.442	(1.126)	428242	120.000	112.9
42 Nitrobenzene	77	4.607	4.597	(0.857)	593736	120.000	113.8
44 Isophorone	82	4.867	4.856	(0.906)	1179801	120.000	119.3
45 2-Nitrophenol	139	4.960	4.960	(0.923)	367467	120.000	129.0
46 2,4-Dimethylphenol	107	5.012	5.012	(0.933)	638328	120.000	120.7

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126 (0.954)		707504	120.000	120.2
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)		500185	120.000	128.5
50 Benzoic Acid	122	5.146	5.115 (0.958)		395333	120.000	134.1
51 1,2,4-Trichlorobenzene	180	5.333	5.322 (0.992)		531764	120.000	126.0
52 Naphthalene	128	5.395	5.395 (1.004)		2020315	120.000	122.7
54 4-Chloroaniline	127	5.488	5.488 (1.021)		797064	120.000	123.0
57 Hexachlorobutadiene	225	5.613	5.613 (1.044)		255231	120.000	127.2
60 4-Chloro-3-Methylphenol	107	6.069	6.069 (1.129)		563840	120.000	125.9
63 2-Methylnaphthalene	142	6.203	6.203 (1.154)		1263302	120.000	125.7
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.868)		312226	120.000	126.9
69 2,4,6-Trichlorophenol	196	6.587	6.576 (0.882)		331223	120.000	135.6
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.888)		343374	120.000	128.0
71 2-Chloronaphthalene	162	6.784	6.784 (0.908)		1107604	120.000	122.5
73 2-Nitroaniline	65	6.950	6.949 (0.931)		346408	120.000	114.4
76 Dimethylphthalate	163	7.229	7.229 (0.968)		1286101	120.000	123.1
77 Acenaphthylene	152	7.281	7.281 (0.975)		1933504	120.000	122.3
79 2,6-Dinitrotoluene	165	7.302	7.302 (0.978)		311050	120.000	133.0
80 3-Nitroaniline	138	7.457	7.447 (0.999)		382849	120.000	123.4
81 Acenaphthene	153	7.509	7.509 (1.006)		1207616	120.000	119.9
82 2,4-Dinitrophenol	184	7.582	7.571 (1.015)		199007	120.000	127.2
83 Dibenzofuran	168	7.706	7.706 (1.032)		1630240	120.000	122.5 (q)
84 4-Nitrophenol	109	7.675	7.675 (1.028)		161169	120.000	119.0 (Q)
86 2,4-Dinitrotoluene	165	7.768	7.768 (1.040)		409418	120.000	130.6
91 Fluorene	166	8.131	8.131 (1.089)		1333949	120.000	122.3
92 Diethylphthalate	149	8.110	8.100 (1.086)		1329206	120.000	121.7
93 4-Chlorophenyl-phenylether	204	8.152	8.152 (1.092)		558370	120.000	124.2
94 4-Nitroaniline	138	8.224	8.214 (1.101)		378421	120.000	124.8
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276 (0.881)		236477	120.000	120.3
98 N-Nitrosodiphenylamine	169	8.317	8.317 (0.884)		1123239	141.000	139.8
100 Azobenzene	77	8.359	8.348 (0.889)		1266722	120.000	113.3
101 4-Bromophenyl-phenylether	248	8.794	8.794 (0.935)		318358	120.000	127.8
108 Hexachlorobenzene	284	8.981	8.981 (0.955)		335728	120.000	124.8
110 Pentachlorophenol	266	9.240	9.240 (0.982)		215360	120.000	133.3
114 Phenanthrene	178	9.437	9.437 (1.003)		1942962	120.000	120.8
115 Anthracene	178	9.509	9.499 (1.011)		2014183	120.000	124.4
118 Carbazole	167	9.768	9.768 (1.039)		1828217	120.000	121.4
120 Di-n-Butylphthalate	149	10.463	10.463 (1.112)		2225048	120.000	122.2
126 Fluoranthene	202	11.302	11.302 (1.202)		1829791	120.000	126.4
127 Benzidine	184	11.582	11.571 (0.840)		1320429	120.000	126.2
128 Pyrene	202	11.665	11.665 (0.846)		1963825	120.000	123.2
134 3,3'-dimethylbenzidine	212	12.877	12.867 (0.934)		1214012	120.000	135.2
136 Butylbenzylphthalate	149	12.991	12.991 (0.942)		997218	120.000	122.5
138 Benzo (a) Anthracene	228	13.758	13.758 (0.998)		1694281	120.000	126.0
139 Chrysene	228	13.831	13.831 (1.003)		1715841	120.000	122.8
140 3,3'-Dichlorobenzidine	252	13.799	13.799 (1.001)		653016	120.000	132.7
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110 (1.023)		1368794	120.000	122.1
142 Di-n-octylphthalate	149	15.167	15.167 (1.100)		2256614	120.000	125.9
144 Benzo (b) fluoranthene	252	15.592	15.582 (0.964)		1475217	120.000	115.3 (Q)
145 Benzo (k) fluoranthene	252	15.623	15.623 (0.966)		1935987	120.000	129.5 (q)
147 Benzo (e) pyrene	252	16.007	16.007 (0.990)		1569049	120.000	123.7
148 Benzo (a) pyrene	252	16.079	16.079 (0.994)		1720343	120.000	123.5
151 Indeno (1,2,3-cd) pyrene	276	17.810	17.800 (1.101)		1867193	120.000	151.5
152 Dibenzo (a,h) anthracene	278	17.851	17.841 (1.104)		1634040	120.000	129.4
153 Benzo (g,h,i) perylene	276	18.245	18.235 (1.128)		1706123	120.000	126.0

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----		-----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					3411204	120.000	122.9(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002F.D
 Lab Smp Id: HSL 120 ug/ml CS-6
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode: Use Initial Calibration Level 4.

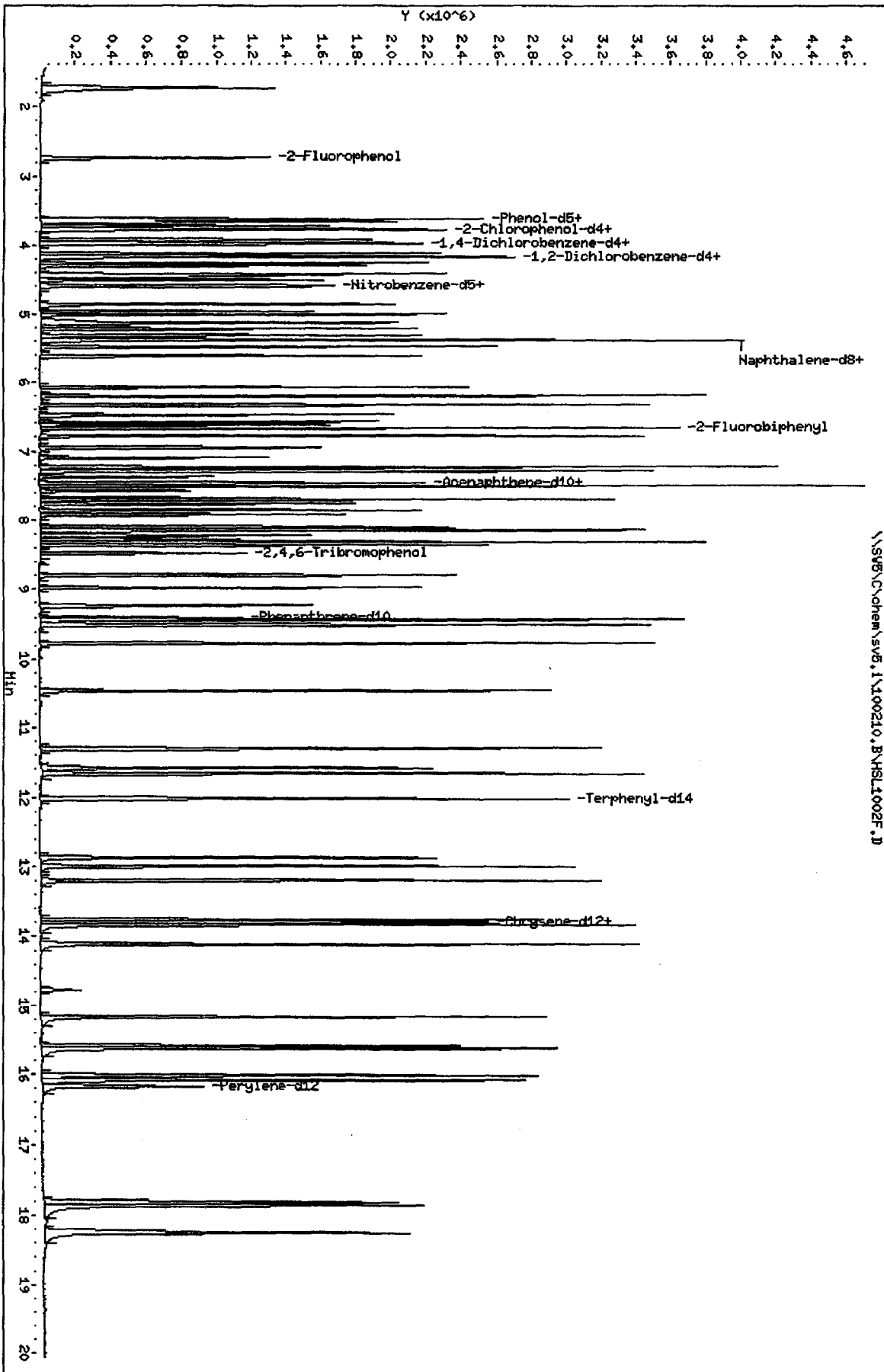
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	137751	12.34
2 Naphthalene-d8	530514	265257	1061028	591665	11.53
3 Acenaphthene-d10	282538	141269	565076	322596	14.18
4 Phenanthrene-d10	462722	231361	925444	515607	11.43
5 Chrysene-d12	435850	217925	871700	509570	16.91
6 Perylene-d12	422284	211142	844568	539588	27.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.08
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS\chem\sv5.1\100210.B\HSL1002F.D
Date: 02-OCT-2010 14:38
Client ID: 8270F.H
Sample Info: HSL_120 ug/ml CS-611161114
Column phase:

Instrument: sv5.1
Operator: KT
Column diameter: 2.00



\\SVS\chem\sv5.1\100210.B\HSL1002F.D

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002G.D
 Lab Smp Id: HSL_160 ug/ml CS-7 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 15:00
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_160 ug/ml CS-7;1;;7;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152			3.954	3.955	(1.000)	141009	40.0000	(Q)
* 2 Naphthalene-d8	136			5.374	5.374	(1.000)	622461	40.0000	
* 3 Acenaphthene-d10	164			7.478	7.468	(1.000)	328259	40.0000	
* 4 Phenanthrene-d10	188			9.405	9.405	(1.000)	532284	40.0000	
* 5 Chrysene-d12	240			13.789	13.779	(1.000)	539557	40.0000	
* 6 Perylene-d12	264			16.172	16.162	(1.000)	560436	40.0000	
\$ 7 2-Fluorophenol	112			2.732	2.732	(0.691)	810154	160.000	163.0(A)
\$ 8 Phenol-d5	99			3.623	3.613	(0.916)	1035724	160.000	165.7(A)
\$ 9 2-Chlorophenol-d4	132			3.757	3.758	(0.950)	890073	160.000	162.2(A)
\$ 10 1,2-Dichlorobenzene-d4	152			4.162	4.162	(1.052)	557810	160.000	160.6(A)
\$ 11 Nitrobenzene-d5	82			4.587	4.576	(0.853)	845796	160.000	160.4(A)
\$ 12 2-Fluorobiphenyl	172			6.680	6.680	(0.893)	1707074	160.000	161.4(A)
\$ 13 2,4,6-Tribromophenol	330			8.483	8.473	(1.134)	241468	160.000	169.3(A)
\$ 14 Terphenyl-d14	244			12.017	12.017	(0.871)	1728892	160.000	162.7(A)
15 N-Nitrosodimethylamine	74			1.706	1.706	(0.431)	529253	160.000	162.9(Aq)
16 Pyridine	79			1.726	1.726	(0.437)	860850	160.000	158.4(Q)
23 Aniline	93			3.654	3.654	(0.924)	1318620	160.000	165.8(AQ)
24 Phenol	94			3.633	3.623	(0.919)	1166090	160.000	162.4(AQ)
26 Bis(2-chloroethyl)ether	93			3.716	3.716	(0.940)	813702	160.000	161.6(A)
27 2-Chlorophenol	128			3.768	3.768	(0.953)	885754	160.000	160.7(A)
28 1,3-Dichlorobenzene	146			3.923	3.923	(0.992)	972719	160.000	162.0(A)
29 1,4-Dichlorobenzene	146			3.975	3.975	(1.005)	1023408	160.000	163.0(A)
30 Benzyl Alcohol	108			4.120	4.120	(1.042)	617653	160.000	166.7(A)
31 1,2-Dichlorobenzene	146			4.172	4.172	(1.055)	928919	160.000	160.9(A)
32 2-Methylphenol	108			4.265	4.255	(1.079)	834149	160.000	165.4(A)
33 2,2'-oxybis(1-Chloropropane)	45			4.296	4.297	(1.086)	1290345	160.000	161.0(A)
34 4-Methylphenol	108			4.421	4.421	(1.118)	895481	160.000	167.2(A)
36 Hexachloroethane	117			4.504	4.504	(1.139)	343605	160.000	160.7(A)
37 N-Nitrosodipropylamine	70			4.452	4.442	(1.126)	590870	160.000	165.6(A)
42 Nitrobenzene	77			4.607	4.597	(0.857)	844093	160.000	163.8(A)
44 Isophorone	82			4.866	4.856	(0.906)	1628636	160.000	164.4(A)
45 2-Nitrophenol	139			4.960	4.960	(0.923)	510613	160.000	167.0(A)
46 2,4-Dimethylphenol	107			5.022	5.012	(0.934)	890994	160.000	164.0(A)

10-3-10

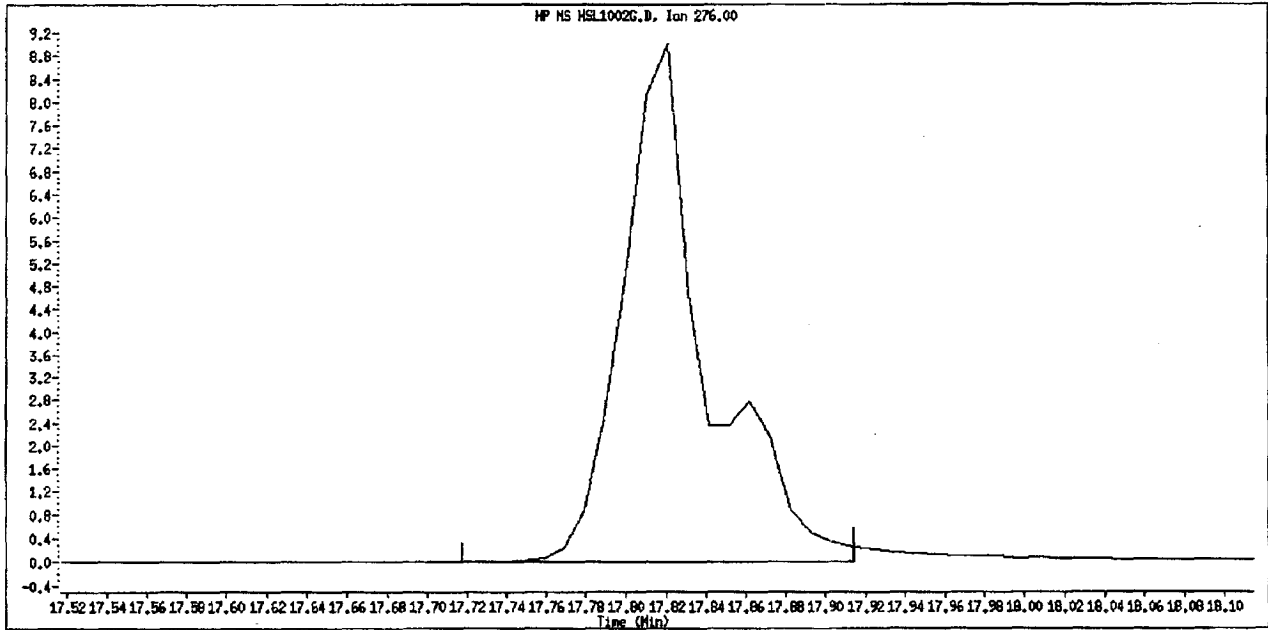
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	164.7 (A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	183.6 (A)
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	724320	160.000	159.2
52 Naphthalene	128	5.395	5.395	(1.004)	2744968	160.000	159.7
54 4-Chloroaniline	127	5.488	5.488	(1.021)	1092223	160.000	162.1 (A)
57 Hexachlorobutadiene	225	5.612	5.613	(1.044)	360358	160.000	161.8 (A)
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.129)	767831	160.000	163.6 (A)
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1723402	160.000	159.6
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.867)	435738	160.000	177.9 (A)
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.881)	441685	160.000	168.6 (A)
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.886)	474468	160.000	168.2 (A)
71 2-Chloronaphthalene	162	6.783	6.784	(0.907)	1511253	160.000	163.6 (A)
73 2-Nitroaniline	65	6.960	6.949	(0.931)	476342	160.000	170.1 (A)
76 Dimethylphthalate	163	7.229	7.229	(0.967)	1710061	160.000	160.8 (A)
77 Acenaphthylene	152	7.291	7.281	(0.975)	2665048	160.000	165.6 (A)
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.976)	408436	160.000	164.8 (A)
80 3-Nitroaniline	138	7.457	7.447	(0.997)	520002	160.000	168.1 (A)
81 Acenaphthene	153	7.509	7.509	(1.004)	1647377	160.000	160.9 (A)
82 2,4-Dinitrophenol	184	7.581	7.572	(1.014)	265655	160.000	157.7
83 Dibenzofuran	168	7.706	7.706	(1.030)	2246304	160.000	165.3 (A)
84 4-Nitrophenol	109	7.685	7.675	(1.028)	228516	160.000	178.1 (Ag)
86 2,4-Dinitrotoluene	165	7.778	7.768	(1.040)	566055	160.000	174.0 (A)
91 Fluorene	166	8.141	8.131	(1.089)	1846653	160.000	164.1 (A)
92 Diethylphthalate	149	8.110	8.100	(1.085)	1813127	160.000	166.5 (A)
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.090)	757562	160.000	161.9 (A)
94 4-Nitroaniline	138	8.224	8.214	(1.100)	531151	160.000	173.2 (A)
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	324244	160.000	160.7 (A)
98 N-Nitrosodiphenylamine	169	8.328	8.317	(0.885)	1542041	187.000	191.1 (A)
100 Azobenzene	77	8.359	8.348	(0.889)	1646477	160.000	157.3
101 4-Bromophenyl-phenylether	248	8.804	8.794	(0.936)	421894	160.000	162.4 (A)
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	465305	160.000	160.3 (A)
110 Pentachlorophenol	266	9.250	9.240	(0.983)	293184	160.000	159.9
114 Phenanthrene	178	9.447	9.437	(1.004)	2695719	160.000	160.7 (A)
115 Anthracene	178	9.509	9.499	(1.011)	2703105	160.000	161.3 (A)
118 Carbazole	167	9.768	9.768	(1.039)	2479487	160.000	161.9 (A)
120 Di-n-Butylphthalate	149	10.473	10.463	(1.113)	3164666	160.000	171.8 (A)
126 Fluoranthene	202	11.312	11.302	(1.203)	2500453	160.000	166.3 (A)
127 Benzidine	184	11.582	11.571	(0.840)	1864289	160.000	170.5 (A)
128 Pyrene	202	11.664	11.665	(0.846)	2714930	160.000	161.0 (A)
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1724989	160.000	178.7 (A)
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	1401117	160.000	165.8 (A)
138 Benzo(a)Anthracene	228	13.768	13.758	(0.998)	2393908	160.000	166.6 (A)
139 Chrysene	228	13.841	13.831	(1.004)	2422526	160.000	164.8 (A)
140 3,3'-Dichlorobenzidine	252	13.810	13.799	(1.002)	915413	160.000	168.9 (A)
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	1906885	160.000	163.8 (A)
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	3253965	160.000	174.8 (A)
144 Benzo(b)fluoranthene	252	15.592	15.582	(0.964)	2299398	160.000	181.2 (AQ)
145 Benzo(k)fluoranthene	252	15.634	15.623	(0.967)	2475935	160.000	152.0 (g)
147 Benzo(e)pyrene	252	16.017	16.007	(0.990)	2178628	160.000	164.7 (A)
148 Benzo(a)pyrene	252	16.089	16.079	(0.995)	2387962	160.000	166.0 (A)
151 Indeno(1,2,3-cd)pyrene	276	17.820	17.800	(1.102)	2196805	160.000	188.8 (AM)
152 Dibenzo(a,h)anthracene	278	17.862	17.841	(1.104)	2250528	160.000	173.2 (A)
153 Benzo(g,h,i)perylene	276	18.255	18.235	(1.129)	2332007	160.000	165.7 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
----- M 162 benzo b,k Fluoranthene Totals	252				4775333	160.000	164.8 (A)

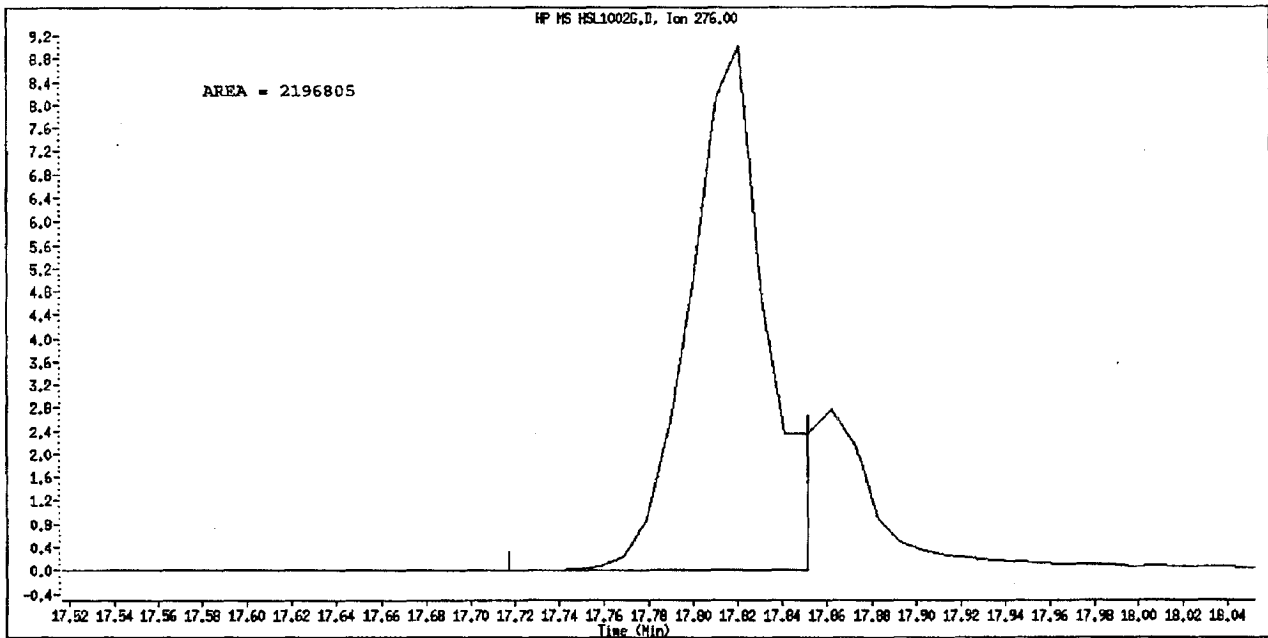
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002G.D
Inj. Date and Time: 02-OCT-2010 15:00
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
 Lab Smp Id: HSL_160 ug/ml CS-7 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 15:00
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL_160 ug/ml CS-7;1;;7;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.955	(1.000)	141009	40.0000	(Q)
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	622461	40.0000	
* 3 Acenaphthene-d10	164	7.478	7.468	(1.000)	328259	40.0000	
* 4 Phenanthrene-d10	188	9.405	9.405	(1.000)	532284	40.0000	
* 5 Chrysene-d12	240	13.789	13.779	(1.000)	539557	40.0000	
* 6 Perylene-d12	264	16.172	16.162	(1.000)	560436	40.0000	
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	810154	160.000	155.7
\$ 8 Phenol-d5	99	3.623	3.613	(0.916)	1035724	160.000	156.5
\$ 9 2-Chlorophenol-d4	132	3.757	3.758	(0.950)	890073	160.000	157.7
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	557810	160.000	158.4
\$ 11 Nitrobenzene-d5	82	4.587	4.576	(0.853)	845796	160.000	153.2
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.893)	1707074	160.000	162.4 (A)
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473	(1.134)	241468	160.000	186.3 (A)
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.871)	1728892	160.000	164.3 (A)
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	529253	160.000	154.1
16 Pyridine	79	1.726	1.726	(0.437)	860850	160.000	150.4
23 Aniline	93	3.654	3.654	(0.924)	1318620	160.000	158.9 (Q)
24 Phenol	94	3.633	3.623	(0.919)	1166090	160.000	165.7 (AQ)
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	813702	160.000	152.2
27 2-Chlorophenol	128	3.768	3.768	(0.953)	885754	160.000	159.0
28 1,3-Dichlorobenzene	146	3.923	3.923	(0.992)	972719	160.000	158.0
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	1023408	160.000	164.5 (A)
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	617653	160.000	161.4 (A)
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	928919	160.000	157.5
32 2-Methylphenol	108	4.265	4.255	(1.079)	834149	160.000	160.3 (A)
33 2,2'-oxybis(1-Chloropropane)	45	4.296	4.297	(1.086)	1290345	160.000	130.0
34 4-Methylphenol	108	4.421	4.421	(1.118)	895481	160.000	161.5 (A)
36 Hexachloroethane	117	4.504	4.504	(1.139)	343605	160.000	156.5
37 N-Nitrosodipropylamine	70	4.452	4.442	(1.126)	590870	160.000	152.2
42 Nitrobenzene	77	4.607	4.597	(0.857)	844093	160.000	153.8
44 Isophorone	82	4.866	4.856	(0.906)	1628636	160.000	156.6
45 2-Nitrophenol	139	4.960	4.960	(0.923)	510613	160.000	170.5 (A)
46 2,4-Dimethylphenol	107	5.022	5.012	(0.934)	890994	160.000	160.2 (A)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	155.0
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	169.1(A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	178.1(A)
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	724320	160.000	163.2(A)
52 Naphthalene	128	5.395	5.395	(1.004)	2744968	160.000	158.4
54 4-Chloroaniline	127	5.488	5.488	(1.021)	1092223	160.000	160.2(A)
57 Hexachlorobutadiene	225	5.612	5.613	(1.044)	360358	160.000	170.6(A)
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.129)	767831	160.000	163.0(A)
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1723402	160.000	163.0(A)
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.867)	435738	160.000	174.0(A)
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.881)	441685	160.000	177.7(A)
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.886)	474468	160.000	173.8(A)
71 2-Chloronaphthalene	162	6.783	6.784	(0.907)	1511253	160.000	164.2(A)
73 2-Nitroaniline	65	6.960	6.949	(0.931)	476342	160.000	154.5
76 Dimethylphthalate	163	7.229	7.229	(0.967)	1710061	160.000	160.9(A)
77 Acenaphthylene	152	7.291	7.281	(0.975)	2665048	160.000	165.6(A)
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.976)	408436	160.000	171.6(A)
80 3-Nitroaniline	138	7.457	7.447	(0.997)	520002	160.000	164.8(A)
81 Acenaphthene	153	7.509	7.509	(1.004)	1647377	160.000	160.7(A)
82 2,4-Dinitrophenol	184	7.581	7.571	(1.014)	265655	160.000	158.9
83 Dibenzofuran	168	7.706	7.706	(1.030)	2246304	160.000	165.8(A)
84 4-Nitrophenol	109	7.685	7.675	(1.028)	228516	160.000	165.8(Aq)
86 2,4-Dinitrotoluene	165	7.778	7.768	(1.040)	566055	160.000	177.5(A)
91 Fluorene	166	8.141	8.131	(1.089)	1846653	160.000	166.4(A)
92 Diethylphthalate	149	8.110	8.100	(1.085)	1813127	160.000	163.2(A)
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.090)	757562	160.000	165.6(A)
94 4-Nitroaniline	138	8.224	8.214	(1.100)	531151	160.000	172.2(A)
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	324244	160.000	158.0
98 N-Nitrosodiphenylamine	169	8.328	8.317	(0.885)	1542041	187.000	185.9(A)
100 Azobenzene	77	8.359	8.348	(0.889)	1646477	160.000	142.7
101 4-Bromophenyl-phenylether	248	8.804	8.794	(0.936)	421894	160.000	164.0(A)
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	465305	160.000	167.5(A)
110 Pentachlorophenol	266	9.250	9.240	(0.983)	293184	160.000	175.8(A)
114 Phenanthrene	178	9.447	9.437	(1.004)	2695719	160.000	162.4(A)
115 Anthracene	178	9.509	9.499	(1.011)	2703105	160.000	161.8(A)
118 Carbazole	167	9.768	9.768	(1.039)	2479487	160.000	159.5
120 Di-n-Butylphthalate	149	10.473	10.463	(1.113)	3164666	160.000	168.4(A)
126 Fluoranthene	202	11.312	11.302	(1.203)	2500453	160.000	167.3(A)
127 Benzidine	184	11.582	11.571	(0.840)	1864289	160.000	168.3(A)
128 Pyrene	202	11.664	11.665	(0.846)	2714930	160.000	160.9(A)
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1724989	160.000	181.4(A)
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	1401117	160.000	162.5(A)
138 Benzo(a)Anthracene	228	13.768	13.758	(0.998)	2393908	160.000	168.2(A)
139 Chrysene	228	13.841	13.831	(1.004)	2422526	160.000	163.8(A)
140 3,3'-Dichlorobenzidine	252	13.810	13.799	(1.002)	915413	160.000	175.7(A)
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.023)	1906885	160.000	160.7(A)
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	3253965	160.000	171.5(A)
144 Benzo(b)fluoranthene	252	15.592	15.582	(0.964)	2299398	160.000	173.0(Aq)
145 Benzo(k)fluoranthene	252	15.634	15.623	(0.967)	2475935	160.000	159.4(q)
147 Benzo(e)pyrene	252	16.017	16.007	(0.990)	2178628	160.000	165.4(A)
148 Benzo(a)pyrene	252	16.089	16.079	(0.995)	2387962	160.000	165.1(A)
151 Indeno(1,2,3-cd)pyrene	276	17.820	17.800	(1.102)	2617878	160.000	204.6(A)
152 Dibenzo(a,h)anthracene	278	17.862	17.841	(1.104)	2250528	160.000	171.6(A)
153 Benzo(g,h,i)perylene	276	18.255	18.235	(1.129)	2332007	160.000	165.9(A)

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					4775333	160.000	165.7 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002G.D
 Lab Smp Id: HSL_160 ug/ml CS-7
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

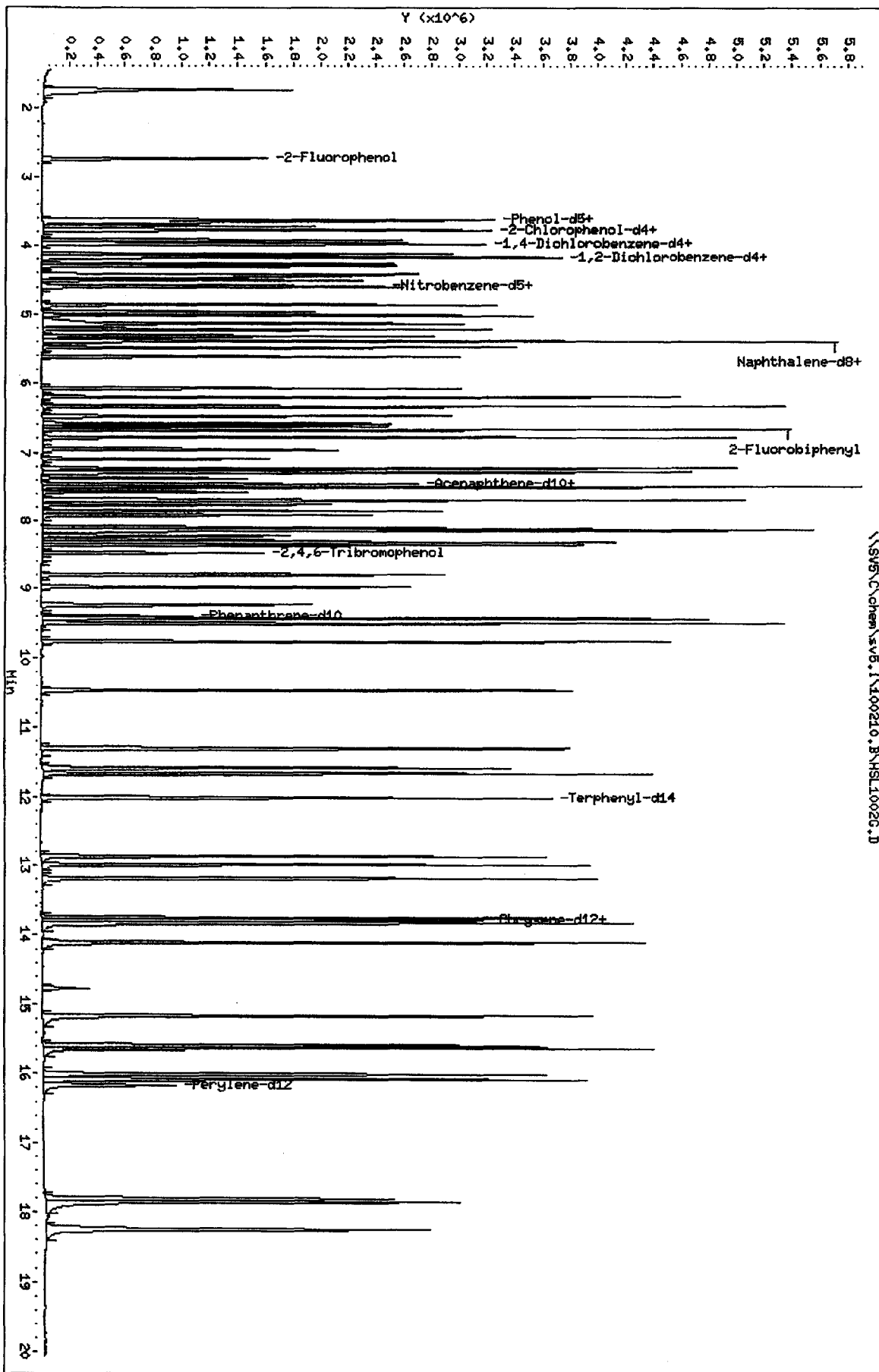
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141009	14.99
2 Naphthalene-d8	530514	265257	1061028	622461	17.33
3 Acenaphthene-d10	282538	141269	565076	328259	16.18
4 Phenanthrene-d10	462722	231361	925444	532284	15.03
5 Chrysene-d12	435850	217925	871700	539557	23.79
6 Perylene-d12	422284	211142	844568	560436	32.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.48	0.14
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.41047	1.41047	0.010	0.03876	50.00000	Averaged
8 Phenol-d5	1.77296	1.74907	1.74907	0.010	-1.34746	50.00000	Averaged
9 2-Chlorophenol-d4	1.55698	1.55303	1.55303	0.010	-0.25385	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.98513	0.98502	0.98502	0.010	-0.01093	50.00000	Averaged
11 Nitrobenzene-d5	0.33879	0.32706	0.32706	0.010	-3.46219	50.00000	Averaged
12 2-Fluorobiphenyl	1.28852	1.25302	1.25302	0.010	-2.75502	50.00000	Averaged
13 2,4,6-Tribromophenol	0.17381	0.17822	0.17822	0.010	2.53174	50.00000	Averaged
14 Terphenyl-d14	0.78789	0.74054	0.74054	0.010	-6.00962	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.91645	0.91645	0.010	-0.55265	50.00000	Averaged
16 Pyridine	1.54111	1.49084	1.49084	0.010	-3.26208	50.00000	Averaged
23 Aniline	2.25673	1.90520	1.90520	0.010	-15.57680	50.00000	Averaged
24 Phenol	2.03729	2.01343	2.01343	0.010	-1.17106	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.42859	1.41690	1.41690	0.010	-0.81844	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.57626	1.57626	0.010	0.79611	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.74104	1.74104	0.010	2.21094	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.77637	1.77637	0.010	-0.26978	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07153	1.07153	0.010	1.95228	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.64144	1.64144	0.010	0.24267	50.00000	Averaged
32 2-Methylphenol	1.43012	1.41817	1.41817	0.010	-0.83592	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.14153	2.14153	0.010	-5.81096	50.00000	Averaged
34 4-Methylphenol	1.51904	1.42403	1.42403	0.010	-6.25452	50.00000	Averaged
36 Hexachloroethane	0.60636	0.62081	0.62081	0.010	2.38271	50.00000	Averaged
37 N-Nitrosodimethylamine	1.01180	0.99863	0.99863	0.050	-1.30217	50.00000	Averaged
42 Nitrobenzene	0.33116	0.32452	0.32452	0.010	-2.00546	50.00000	Averaged
44 Isophorone	0.63679	0.62370	0.62370	0.010	-2.05513	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20090	0.20090	0.010	2.25050	20.00000	Averaged
46 2,4-Dimethylphenol	0.34911	0.33078	0.33078	0.010	-5.25153	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.37434	0.37434	0.010	-3.78942	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.26945	0.26945	0.010	-0.23923	20.00000	Averaged
50 Benzoic Acid	0.19324	0.20284	0.20284	0.010	4.96710	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.28203	0.28203	0.010	-3.56320	50.00000	Averaged
52 Naphthalene	1.10443	1.07116	1.07116	0.010	-3.01217	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.40664	0.40664	0.010	-6.06033	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.14742	0.14742	0.010	2.99976	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.29442	0.29442	0.010	-2.39317	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.71003	0.71003	0.010	2.34296	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.32228	0.32228	0.050	7.98199	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.32462	0.32462	0.010	1.71977	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.34380	0.34503	0.34503	0.010	0.35814	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.09768	1.09768	0.010	-2.48963	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.32550	0.32550	0.010	-4.59608	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.28355	1.28355	0.010	-0.96554	50.00000	Averaged

10/3/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT		RF50	CCAL	MIN	MAX		CURVE TYPE
	RRF	AMOUNT	RRF50	RRF50	RRF	%D	%DRIFT	
77 Acenaphthylene	1.96037		1.90194	1.90194	0.010	-2.98044	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197		0.30334	0.30334	0.010	0.45457	50.00000	Averaged
80 3-Nitroaniline	0.37691		0.37836	0.37836	0.010	0.38563	50.00000	Averaged
81 Acenaphthene	1.24787		1.19989	1.19989	0.010	-3.84461	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000		48.07731	0.16950	0.050	-3.84537	0.000e+000	Quadratic
83 Dibenzofuran	1.65612		1.64309	1.64309	0.010	-0.78683	50.00000	Averaged
84 4-Nitrophenol	0.15634		0.16205	0.16205	0.050	3.65012	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633		0.40639	0.40639	0.010	2.53669	50.00000	Averaged
91 Fluorene	1.37139		1.36209	1.36209	0.010	-0.67828	50.00000	Averaged
92 Diethylphthalate	1.32699		1.28445	1.28445	0.010	-3.20581	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019		0.56986	0.56986	0.010	-0.05862	50.00000	Averaged
94 4-Nitroaniline	0.37361		0.40608	0.40608	0.010	8.68956	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000		48.62001	0.13800	0.010	-2.75999	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628		0.49086	0.49086	0.010	-19.03836	20.00000	Averaged
100 Azobenzene	0.78660		0.77322	0.77322	0.010	-1.70096	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527		0.19536	0.19536	0.010	0.04546	50.00000	Averaged
108 Hexachlorobenzene	0.21807		0.22026	0.22026	0.010	1.00466	50.00000	Averaged
110 Pentachlorophenol	50.00000		50.72441	0.13218	0.010	1.44881	0.000e+000	Linear
114 Phenanthrene	1.26074		1.20864	1.20864	0.010	-4.13307	50.00000	Averaged
115 Anthracene	1.25955		1.22825	1.22825	0.010	-2.48429	50.00000	Averaged
118 Carbazole	1.15061		1.15083	1.15083	0.010	0.01942	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442		1.39149	1.39149	0.010	0.51078	50.00000	Averaged
126 Fluoranthene	1.12969		1.19302	1.19302	0.010	5.60642	20.00000	Averaged
127 Benzidine	0.81067		0.30175	0.30175	0.010	-62.77740	50.00000	Averaged
128 Pyrene	1.25025		1.13023	1.13023	0.010	-9.59978	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564		0.26880	0.26880	0.010	-62.43954	50.00000	Averaged
136 Butylbenzylphthalate	0.62663		0.58836	0.58836	0.010	-6.10747	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548		0.99285	0.99285	0.010	-6.81596	50.00000	Averaged
139 Chrysene	1.08994		1.04703	1.04703	0.010	-3.93621	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189		0.37691	0.37691	0.010	-6.21534	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316		0.80149	0.80149	0.010	-7.14468	50.00000	Averaged
142 Di-n-octylphthalate	1.37975		1.27404	1.27404	0.010	-7.66156	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549		0.90498	0.90498	0.010	-0.05663	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236		1.22175	1.22175	0.010	5.10982	50.00000	Averaged
147 Benzo(e)pyrene	0.94425		0.98421	0.98421	0.010	4.23177	50.00000	Averaged
148 Benzo(a)pyrene	1.02655		0.95393	0.95393	0.010	-7.07365	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029		0.81846	0.81846	0.010	-1.42489	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758		0.99090	0.99090	0.010	6.82730	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427		1.08674	1.08674	0.010	8.21177	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785		2.12673	2.12673	0.010	2.84748	50.00000	Averaged

See RT
 See AD
 10/3/10

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
 Lab Smp Id: HSL 050 ug/ml ICV Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 16:11
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 050 ug/ml ICV;2;;4;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:20 sv5.i Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 8 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4		152	3.954	3.954	(1.000)	98364	40.0000	
* 2 Naphthalene-d8		136	5.374	5.374	(1.000)	431655	40.0000	
* 3 Acenaphthene-d10		164	7.468	7.468	(1.000)	236662	40.0000	
* 4 Phenanthrene-d10		188	9.405	9.405	(1.000)	380734	40.0000	
* 5 Chrysene-d12		240	13.789	13.789	(1.000)	421719	40.0000	
* 6 Perylene-d12		264	16.173	16.173	(1.000)	419419	40.0000	
\$ 7 2-Fluorophenol		112	2.732	2.732	(0.691)	173424	50.0000	50.02
\$ 8 Phenol-d5		99	3.613	3.613	(0.914)	215057	50.0000	49.33
\$ 9 2-Chlorophenol-d4		132	3.747	3.747	(0.948)	190953	50.0000	49.87
\$ 10 1,2-Dichlorobenzene-d4		152	4.151	4.151	(1.050)	121113	50.0000	49.99
\$ 11 Nitrobenzene-d5		82	4.576	4.576	(0.852)	176474	50.0000	48.27
\$ 12 2-Fluorobiphenyl		172	6.680	6.680	(0.895)	370679	50.0000	48.62
\$ 13 2,4,6-Tribromophenol		330	8.483	8.483	(1.136)	52721	50.0000	51.26
\$ 14 Terphenyl-d14		244	12.017	12.017	(0.871)	390377	50.0000	47.00
15 N-Nitrosodimethylamine		74	1.706	1.706	(0.431)	112682	50.0000	49.72(Q)
16 Pyridine		79	1.726	1.726	(0.437)	183306	50.0000	48.37
23 Aniline		93	3.654	3.654	(0.924)	234254	50.0000	42.21
24 Phenol		94	3.623	3.623	(0.916)	247561	50.0000	49.41(Q)
26 Bis(2-chloroethyl) ether		93	3.716	3.716	(0.940)	174215	50.0000	49.59
27 2-Chlorophenol		128	3.768	3.768	(0.953)	193809	50.0000	50.40
28 1,3-Dichlorobenzene		146	3.913	3.913	(0.990)	214069	50.0000	51.10
29 1,4-Dichlorobenzene		146	3.975	3.975	(1.005)	218414	50.0000	49.86
30 Benzyl Alcohol		108	4.120	4.120	(1.042)	131750	50.0000	50.98
31 1,2-Dichlorobenzene		146	4.172	4.172	(1.055)	201823	50.0000	50.12
32 2-Methylphenol		108	4.255	4.255	(1.076)	174371	50.0000	49.58
33 2,2'-oxybis(1-Chloropropane)		45	4.296	4.296	(1.086)	263312	50.0000	47.09
34 4-Methylphenol		108	4.410	4.410	(1.115)	175092	50.0000	46.87
36 Hexachloroethane		117	4.504	4.504	(1.139)	76332	50.0000	51.19
37 N-Nitrosodipropylamine		70	4.442	4.442	(1.123)	122786	50.0000	49.35
42 Nitrobenzene		77	4.597	4.597	(0.855)	175102	50.0000	49.00
44 Isophorone		82	4.856	4.856	(0.904)	336530	50.0000	48.97
45 2-Nitrophenol		139	4.960	4.960	(0.923)	108399	50.0000	51.12
46 2,4-Dimethylphenol		107	5.012	5.012	(0.933)	178479	50.0000	47.37

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126 (0.954)		201982	50.0000	48.10
49 2,4-Dichlorophenol	162	5.229	5.229 (0.973)		145389	50.0000	49.88
50 Benzoic Acid	122	5.115	5.115 (0.952)		109446	50.0000	52.48
51 1,2,4-Trichlorobenzene	180	5.322	5.322 (0.990)		152177	50.0000	48.22
52 Naphthalene	128	5.395	5.395 (1.004)		577964	50.0000	48.49
54 4-Chloroaniline	127	5.488	5.488 (1.021)		219411	50.0000	46.97
57 Hexachlorobutadiene	225	5.613	5.613 (1.044)		79543	50.0000	51.50
60 4-Chloro-3-Methylphenol	107	6.069	6.069 (1.129)		158858	50.0000	48.80
63 2-Methylnaphthalene	142	6.203	6.203 (1.154)		383110	50.0000	51.17
66 Hexachlorocyclopentadiene	237	6.483	6.483 (0.868)		95339	50.0000	53.99
69 2,4,6-Trichlorophenol	196	6.587	6.587 (0.882)		96032	50.0000	50.86
70 2,4,5-Trichlorophenol	196	6.628	6.628 (0.888)		102070	50.0000	50.18
71 2-Chloronaphthalene	162	6.784	6.784 (0.908)		324725	50.0000	48.76
73 2-Nitroaniline	65	6.949	6.949 (0.931)		96293	50.0000	47.70
76 Dimethylphthalate	163	7.229	7.229 (0.968)		379709	50.0000	49.52
77 Acenaphthylene	152	7.281	7.281 (0.975)		562646	50.0000	48.51
79 2,6-Dinitrotoluene	165	7.302	7.302 (0.978)		89736	50.0000	50.23
80 3-Nitroaniline	138	7.457	7.457 (0.999)		111929	50.0000	50.19
81 Acenaphthene	153	7.509	7.509 (1.006)		354961	50.0000	48.08
82 2,4-Dinitrophenol	184	7.582	7.582 (1.015)		50142	50.0000	48.08
83 Dibenzofuran	168	7.706	7.706 (1.032)		486071	50.0000	49.61
84 4-Nitrophenol	109	7.675	7.675 (1.028)		47938	50.0000	51.82(Q)
86 2,4-Dinitrotoluene	165	7.768	7.768 (1.040)		120220	50.0000	51.27
91 Fluorene	166	8.131	8.131 (1.089)		402944	50.0000	49.66
92 Diethylphthalate	149	8.100	8.100 (1.085)		379976	50.0000	48.40
93 4-Chlorophenyl-phenylether	204	8.152	8.152 (1.092)		168579	50.0000	49.97
94 4-Nitroaniline	138	8.214	8.214 (1.100)		120129	50.0000	54.34
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276 (0.880)		65675	50.0000	48.62
98 N-Nitrosodiphenylamine	169	8.317	8.317 (0.884)		273788	58.6000	47.44
100 Azobenzene	77	8.359	8.359 (0.889)		367990	50.0000	49.15
101 4-Bromophenyl-phenylether	248	8.804	8.804 (0.936)		92973	50.0000	50.02
108 Hexachlorobenzene	284	8.981	8.981 (0.955)		104824	50.0000	50.50
110 Pentachlorophenol	266	9.240	9.240 (0.982)		62906	50.0000	50.72
114 Phenanthrene	178	9.437	9.437 (1.003)		575211	50.0000	47.93
115 Anthracene	178	9.509	9.509 (1.011)		584548	50.0000	48.76
118 Carbazole	167	9.768	9.768 (1.039)		547701	50.0000	50.01
120 Di-n-Butylphthalate	149	10.473	10.473 (1.113)		662234	50.0000	50.26
126 Fluoranthene	202	11.302	11.302 (1.202)		567781	50.0000	52.80
127 Benzidine	184	11.582	11.582 (0.840)		159069	50.0000	18.61
128 Pyrene	202	11.665	11.665 (0.846)		595801	50.0000	45.20
134 3,3'-dimethylbenzidine	212	12.877	12.877 (0.934)		141696	50.0000	18.78
136 Butylbenzylphthalate	149	12.991	12.991 (0.942)		310154	50.0000	46.95
138 Benzo(a)Anthracene	228	13.758	13.758 (0.998)		523382	50.0000	46.59
139 Chrysene	228	13.830	13.830 (1.003)		551943	50.0000	48.03
140 3,3'-Dichlorobenzidine	252	13.799	13.799 (1.001)		198689	50.0000	46.89
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110 (1.023)		422505	50.0000	46.43
142 Di-n-octylphthalate	149	15.167	15.167 (1.100)		671608	50.0000	46.17
144 Benzo(b)fluoranthene	252	15.582	15.582 (0.963)		474456	50.0000	49.97(Q)
145 Benzo(k)fluoranthene	252	15.623	15.623 (0.966)		640533	50.0000	52.55
147 Benzo(e)pyrene	252	16.007	16.007 (0.990)		515993	50.0000	52.12
148 Benzo(a)pyrene	252	16.079	16.079 (0.994)		500123	50.0000	46.46
151 Indeno(1,2,3-cd)pyrene	276	17.810	17.810 (1.101)		429096	50.0000	49.29
152 Dibenzo(a,h)anthracene	278	17.851	17.851 (1.104)		519505	50.0000	53.41
153 Benzo(g,h,i)perylene	276	18.235	18.235 (1.127)		569749	50.0000	54.10

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1114989	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002H.D
 Lab Smp Id: HSL 050 ug/ml ICV
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

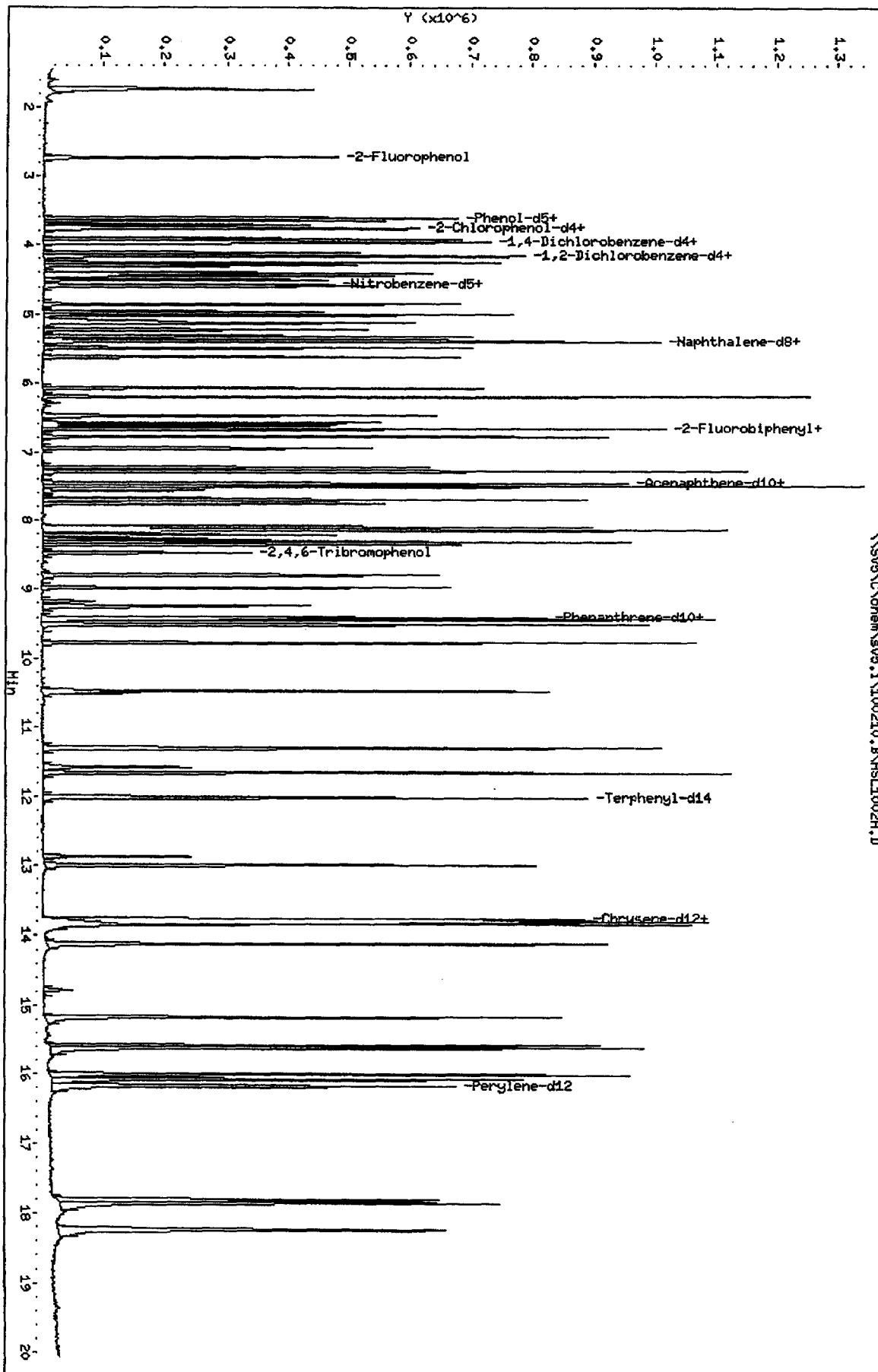
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	98364	-19.78
2 Naphthalene-d8	530514	265257	1061028	431655	-18.63
3 Acenaphthene-d10	282538	141269	565076	236662	-16.24
4 Phenanthrene-d10	462722	231361	925444	380734	-17.72
5 Chrysene-d12	435850	217925	871700	421719	-3.24
6 Perylene-d12	422284	211142	844568	419419	-0.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.79	13.29	14.29	13.79	0.00
6 Perylene-d12	16.17	15.67	16.67	16.17	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS5\Chem\sv5.1\100210.B\HSL1002H.D
 Date: 02-OCT-2010 16:11
 Client ID: 8270F.M
 Sample Info: HSL_050 ug/ml ICV:23444444
 Column phase:

Instrument: sv5.1
 Operator: KT
 Column diameter: 2.00



\\SVS5\Chem\sv5.1\100210.B\HSL1002H.D

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:36
Lab File ID: HSL1002H1.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32 15:00
Lab Sample ID: Benzidines ICV 50ug Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
127 Benzidine	0.81067	0.92336	0.92336	0.010	13.89989	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.78974	0.78974	0.010	10.35398	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.42433	0.42433	0.010	5.58428	50.00000	Averaged

✓
10-3-10

TestAmerica West Sacramento

Method 8270C
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D
 Lab Smp Id: Benzidines ICV 50ug Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 16:36
 Operator : KT Inst ID: sv5.i
 Smp Info : Benzidines ICV 50ug/mL;2;;4;;;4
 Misc Info : 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Meth Date : 03-Oct-2010 11:13 truongk Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 9 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: BenzICV.SUB
 Target Version: 4.14
 Processing Host: SACP307UM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.954	(1.000)	115503	40.0000	
* 2 Naphthalene-d8	136	5.364	5.364	(1.000)	480485	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	254190	40.0000	
* 4 Phenanthrene-d10	188	9.405	9.405	(1.000)	405333	40.0000	
* 5 Chrysene-d12	240	13.779	13.779	(1.000)	378068	40.0000	
* 6 Perylene-d12	264	16.162	16.162	(1.000)	372382	40.0000	
127 Benzidine	184	11.571	11.571	(0.840)	436364	50.0000	56.95
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	373217	50.0000	55.18
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	200534	50.0000	52.79

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002H1.D
 Lab Smp Id: Benzidines ICV 50ug
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT

Calibration Date: 02-OCT-2010
 Calibration Time: 13:44
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

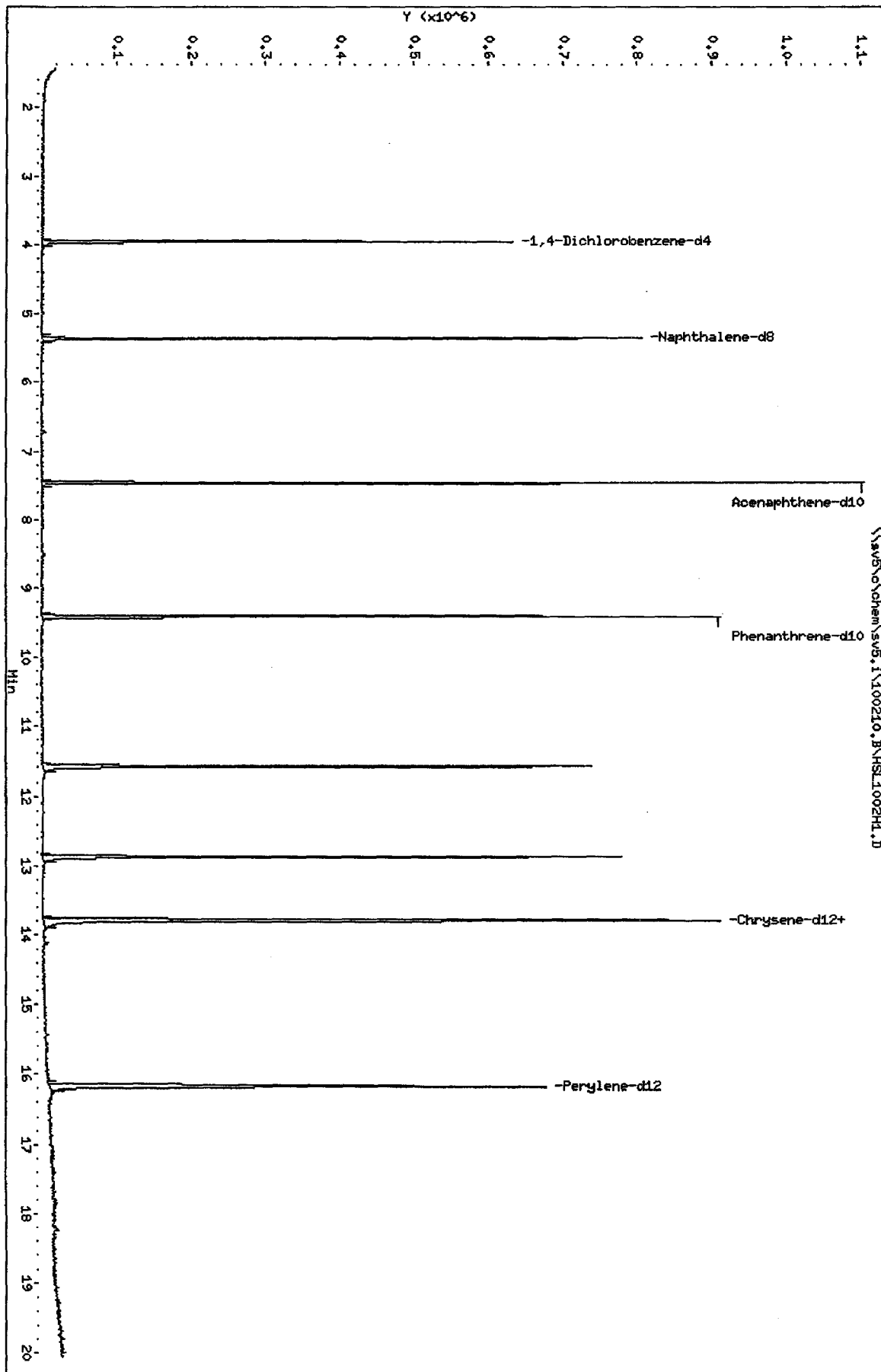
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	115503	-5.81
2 Naphthalene-d8	530514	265257	1061028	480485	-9.43
3 Acenaphthene-d10	282538	141269	565076	254190	-10.03
4 Phenanthrene-d10	462722	231361	925444	405333	-12.40
5 Chrysene-d12	435850	217925	871700	378068	-13.26
6 Perylene-d12	422284	211142	844568	372382	-11.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.36	4.86	5.86	5.36	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\sv5\volchem\sv5.i\100210_B\HSL1002H1.D
Date: 02-OCT-2010 16:36
Client ID: 8270F.H
Sample Info: Benzidines ICV 80ug/mL 2p441114

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
 End Cal Date : 02-OCT-2010 15:00
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:07 sv5.i
 Curve Type : Average

Calibration File Names:

Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D
 Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D
 Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D
 Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D
 Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D
 Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D
 Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

original RRF
10/3/10

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	* RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
15 N-Nitrosodimethylamine	0.92899 0.93833	0.88268	0.91048	0.91970	0.93146	0.93916	0.92154	2.162
16 Pyridine	1.67117 1.52623	1.37423	1.59449	1.56610	1.52299	1.53256	1.54111	5.856
23 Aniline	2.20796 2.33783	2.15935	2.19988	2.26058	2.29749	2.33400	2.25673	3.098
24 Phenol	2.04111 2.06740	1.96212	2.02834	2.03430	2.06683	2.06089	2.03729	1.802
26 Bis(2-chloroethyl)ether	1.47335 1.44264	1.38252	1.39491	1.43824	1.42549	1.44300	1.42859	2.170
27 2-Chlorophenol	1.52099 1.57039	1.55595	1.56903	1.58168	1.56789	1.58074	1.56381	1.328
28 1,3-Dichlorobenzene	1.68903 1.72457	1.69173	1.67754	1.73135	1.68641	1.72299	1.70337	1.294
29 1,4-Dichlorobenzene	1.77122 1.81444	1.79861	1.74013	1.76898	1.78200	1.79288	1.78118	1.352

TestAmerica West Sacramento
 INITIAL CALIBRATION DATA

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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:07 sv5.i
 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
30 Benzyl Alcohol	1.01643 1.09506	1.03654	0.99182	1.04980	1.07792	1.08952	1.05101	3.697
31 1,2-Dichlorobenzene	1.62008 1.64691	1.63185	1.60455	1.68061	1.63410	1.64415	1.63746	1.459
32 2-Methylphenol	1.40818 1.47889	1.38930	1.39110	1.42620	1.45565	1.46154	1.43012	2.506
33 2,2'-oxybis(1-Chloropropane)	2.29602 2.28770	2.22080	2.28329	2.27928	2.27018	2.27830	2.27365	1.085
34 4-Methylphenol	1.48606 1.58763	1.48913	1.46270	1.52239	1.52653	1.55886	1.51904	2.884
36 Hexachloroethane	0.60925 0.60919	0.60836	0.60573	0.61394	0.60427	0.59381	0.60636	1.043
37 N-Nitrosodipropylamine	0.94498 1.04757	0.97005	1.01302	1.02370	1.04700	1.03627	1.01180	3.926
42 Nitrobenzene	0.32855 0.33901	0.32602	0.32543	0.33083	0.33379	0.33450	0.33116	1.489
44 Isophorone	0.63431 0.65411	0.62291	0.61160	0.63344	0.63648	0.66468	0.63679	2.811
45 2-Nitrophenol	0.18608 0.20508	0.18833	0.18840	0.20021	0.20022	0.20702	0.19648	4.423
46 2,4-Dimethylphenol	0.34459 0.35785	0.34167	0.34307	0.34912	0.34788	0.35962	0.34911	2.028

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:07 sv5.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
47 Bis(2-chloroethoxy)methane	0.41146 0.38545	0.37494	0.38565	0.38249	0.38500	0.39859	0.38908	3.106
49 2,4-Dichlorophenol	0.25434 0.27809	0.26318	0.27019	0.27037	0.27274	0.28180	0.27010	3.393
50 Benzoic Acid	0.16747 0.22180	0.16266	0.17423	0.19357	0.21024	0.22272	0.19324	13.252
51 1,2,4-Trichlorobenzene	0.29430 0.29091	0.28827	0.28475	0.29747	0.29189	0.29959	0.29246	1.760
52 Naphthalene	1.09939 1.10247	1.12462	1.07435	1.09325	1.09870	1.13821	1.10443	1.900
54 4-Chloroaniline	0.40751 0.43867	0.42534	0.43264	0.43910	0.43781	0.44905	0.43288	3.068
57 Hexachlorobutadiene	0.14295 0.14473	0.13812	0.14428	0.14415	0.14385	0.14379	0.14313	1.589
60 4-Chloro-3-Methylphenol	0.29329 0.30839	0.28866	0.29079	0.30972	0.30295	0.31766	0.30164	3.644
63 2-Methylnaphthalene	0.68483 0.69217	0.68064	0.68080	0.70067	0.70560	0.71172	0.69378	1.797
66 Hexachlorocyclopentadiene	0.26878 0.33186	0.27757	0.28896	0.29704	0.30236	0.32262	0.29846	7.645
69 2,4,6-Trichlorophenol	0.31186 0.33638	0.29820	0.30223	0.31996	0.32305	0.34225	0.31913	5.157

TestAmerica West Sacramento
INITIAL CALIBRATION DATA

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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:07 sv5.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	160.000 Level 7	RRF	% RSD
70 2,4,5-Trichlorophenol	0.30823 0.36135	0.32892	0.33796	0.36298	0.35236	0.35480		0.34380	5.807
71 2-Chloronaphthalene	1.13629 1.15096	1.09411	1.10012	1.14181	1.11220	1.14447		1.12571	2.051
73 2-Nitroaniline	0.31576 0.36278	0.31759	0.33397	0.35205	0.34821	0.35794		0.34119	5.573
76 Dimethylphthalate	1.23388 1.30237	1.25191	1.29803	1.34568	1.31165	1.32891		1.29606	3.093
77 Acenaphthylene	1.86531 2.02968	1.91304	1.91818	2.01646	1.98204	1.99786		1.96037	3.150
79 2,6-Dinitrotoluene	0.28347 0.31106	0.27378	0.29890	0.31220	0.31294	0.32140		0.30197	5.786
80 3-Nitroaniline	0.35362 0.39603	0.34622	0.35978	0.40036	0.38674	0.39559		0.37691	6.069
81 Acenaphthene	1.25874 1.25463	1.22468	1.26733	1.27046	1.21141	1.24781		1.24787	1.768
82 2,4-Dinitrophenol	0.10149 0.20232	0.11058	0.14485	0.16667	0.18378	0.20563		0.15933	26.349
83 Dibenzofuran	1.57786 1.71077	1.62124	1.65200	1.69530	1.65117	1.68450		1.65612	2.779
84 4-Nitrophenol	0.12712 0.17404	0.14148	0.15316	0.16076	0.17130	0.16653		0.15634	10.909

TestAmerica West Sacramento
 INITIAL CALIBRATION DATA

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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:07 sv5.i
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	160.000 Level 7	RRF	% RSD
86 2,4-Dinitrotoluene	0.34360 0.43110	0.35989	0.38479	0.42154	0.41035	0.42305		0.39633	8.616
91 Fluorene	1.34567 1.40640	1.33840	1.34292	1.39902	1.38899	1.37835		1.37139	2.086
92 Diethylphthalate	1.22240 1.38087	1.29889	1.31549	1.37912	1.31873	1.37345		1.32699	4.319
93 4-Chlorophenyl-phenylether	0.54964 0.57695	0.55917	0.56887	0.59265	0.56708	0.57695		0.57019	2.429
94 4-Nitroaniline	0.33346 0.40452	0.33747	0.37329	0.38337	0.39216	0.39102		0.37361	7.424
97 4,6-Dinitro-2-methylphenol	0.09316 0.15229	0.10533	0.12545	0.13163	0.14105	0.15288		0.12883	17.707
98 N-Nitrosodiphenylamine	0.57756 0.61968	0.59736	0.60533	0.60433	0.62172	0.61801		0.60628	2.577
100 Azobenzene	0.77527 0.77331	0.76965	0.77321	0.79522	0.80064	0.81892		0.78660	2.371
101 4-Bromophenyl-phenylether	0.18964 0.19815	0.18507	0.19281	0.19931	0.19607	0.20581		0.19527	3.488
108 Hexachlorobenzene	0.22958 0.21854	0.22054	0.20740	0.21605	0.21731	0.21704		0.21807	3.009
110 Pentachlorophenol	0.09427 0.13770	0.09851	0.11582	0.11736	0.13228	0.13923		0.11931	15.221

TestAmerica West Sacramento
INITIAL CALIBRATION DATA

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 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
114 Phenanthrene	1.30347 1.26611	1.26007	1.25408	1.24163	1.24375	1.25610	1.26074	1.643
115 Anthracene	1.25034 1.26958	1.21759	1.24206	1.25982	1.27529	1.30214	1.25955	2.129
118 Carbazole	1.13211 1.16455	1.12547	1.13694	1.14260	1.17067	1.18192	1.15061	1.878
120 Di-n-Butylphthalate	1.28492 1.48636	1.32287	1.36193	1.38164	1.41474	1.43847	1.38442	4.973
126 Fluoranthene	1.03840 1.17440	1.07611	1.17216	1.10520	1.15861	1.18294	1.12969	5.018
127 Benzidine	0.78175 0.86381	0.76431	0.75250	0.82658	0.82201	0.86375	0.81067	5.606
128 Pyrene	1.25791 1.25794	1.23783	1.17078	1.28684	1.25586	1.28463	1.25025	3.122
134 3,3'-dimethylbenzidine	0.65472 0.79926	0.64388	0.67361	0.70756	0.73630	0.79414	0.71564	8.888
136 Butylbenzylphthalate	0.64984 0.64920	0.60187	0.59142	0.62586	0.61590	0.65233	0.62653	3.950
138 Benzo(a)Anthracene	1.10169 1.10920	0.99731	1.03245	1.04489	1.06449	1.10831	1.06548	4.058
139 Chrysene	1.05284 1.12246	1.10175	1.06320	1.09705	1.06985	1.12241	1.08994	2.594

TestAmerica West Sacramento

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 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
140 3,3'-Dichlorobenzidine	0.39148 0.42415	0.37695	0.39090	0.39906	0.40353	0.42717	0.40189	4.539
141 bis(2-ethylhexyl) Phthalate	0.91826 0.88354	0.80897	0.84032	0.85193	0.84371	0.89539	0.86316	4.348
142 Di-n-octylphthalate	1.34838 1.50770	1.23185	1.35627	1.34433	1.39356	1.47616	1.37975	6.651
144 Benzo(b)fluoranthene	0.81012 1.02572	0.81077	0.82747	0.99930	0.95373	0.91132	0.90549	10.058
145 Benzo(k)fluoranthene	1.22939 1.10447	1.16528	1.20022	1.09895	1.14223	1.19597	1.16236	4.279
147 Benzo(e)pyrene	0.90394 0.97185	0.92734	0.90757	0.95977	0.96997	0.96929	0.94425	3.220
148 Benzo(a)pyrene	0.98300 1.06523	0.97686	0.99402	1.02789	1.07610	1.06275	1.02655	4.111
151 Indeno(1,2,3-cd)pyrene	0.73783 0.97995	0.73267	0.73671	0.84698	0.84057	0.93730	0.83029	12.151
152 Dibenzo(a,h)anthracene	0.88099 1.00392	0.84384	0.87256	0.92240	0.95990	1.00944	0.92758	7.071
153 Benzo(g,h,i)perylene	0.96025 1.04026	0.98457	0.97380	0.99974	1.01731	1.05397	1.00427	3.452
M 162 benzo b,k Fluoranthene Totals	2.03951 2.13019	1.97605	2.02770	2.09825	2.09596	2.10729	2.06785	2.649

TestAmerica West Sacramento

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 Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
\$ 7 2-Fluorophenol	1.44503 1.43635	1.30436	1.38373	1.44170	1.43535	1.42292	1.40992	3.615
\$ 8 Phenol-d5	1.72227 1.83627	1.67335	1.74151	1.79006	1.80863	1.83864	1.77296	3.520
\$ 9 2-Chlorophenol-d4	1.47770 1.57804	1.55530	1.53916	1.59414	1.57486	1.57967	1.55698	2.524
\$ 10 1,2-Dichlorobenzene-d4	0.95776 0.98896	0.98111	0.99827	0.98914	0.99518	0.98547	0.98513	1.356
\$ 11 Nitrobenzene-d5	0.33028 0.33970	0.34256	0.33065	0.34105	0.33606	0.35127	0.33879	2.162
\$ 12 2-Fluorobiphenyl	1.28499 1.30010	1.26007	1.27668	1.34206	1.25854	1.29723	1.28852	2.226
\$ 13 2,4,6-Tribromophenol	0.15034 0.18390	0.16527	0.17466	0.17926	0.17825	0.18501	0.17381	7.052
\$ 14 Terphenyl-d14	0.78508 0.80107	0.78616	0.73917	0.80441	0.78047	0.81889	0.78789	3.214

Sample Extraction/Preparation Log
Copies and Checklists

**TestAmerica West Sacramento
Organic Prep Log
8270 Air**

Box # Air Tox #299
 Shared QC Batch: N/A
 Shares QC With: N/A

TestAmericc

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	<u>10/22/10</u>
Inst Receipt:	

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	<u>N/A</u>
DCM	Baker	<u>J25501</u>
Na2SO4	Baker	<u>N/A</u>

Batch: 0294378
 MS Run #:
 Prep Date: 10/21/2010
 Method: JZ TO-13
 Matrix: S AIR
 Extraction: 11 SOXHLET (NONE, Na2SO4)
 QC: 3W AMBIENT AIR TESTING
 SAC: JZ - S - 11 - 3W

*** RUSH ***

WS-OP-0006

Soxhlet time on: 16:50 (10/21/10) Soxhlet time off: 9:05 (10/22/10)

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G0J210000 - 378	B	L8WGC1AA	10/25/2010	1.0	✓		11/27/2010
G0J210000 - 378	C	L8WGC1AC	10/25/2010	1.0	✓		11/27/2010
G0J210000 - 378	L	L8WGC1AD	10/25/2010	1.0	✓		11/27/2010
G0J210484 - 10		L8VH41AA	10/25/2010	1.0	✓		11/27/2010
G0J210484 - 12		L8VH71AA	10/25/2010	1.0	✓		11/27/2010
G0J210484 - 15		L8VJA1AA	10/26/2010	1.0	✓		11/28/2010
G0J210484 - 16		L8VJD1AA	10/26/2010	1.0	✓		11/28/2010

- XAD / PUF / PUF-XAD
- Filter
- Impinger

Comments/NCMs: _____

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500ul / 10ATRO15 / ABAJ SWT</u>	<u>4/4/11</u>	<u>ECJ</u>	<u>[Signature]</u>	<u>10/21/10</u> ✓
Spike Mix LCS/LCSD/MS/MS	<u>1.0ml / 10ATRO16 / 8270 LCS Mix</u>	<u>4/9/11</u>	<u>ECJ</u>	<u>[Signature]</u>	<u>10/21/10</u> ✓
Pre-Spike Standard All Samples	<u>250ul / 10ATRO10 / 1,2</u>	<u>2/27/11</u>	<u>ECJ</u>	<u>[Signature]</u>	<u>10/21/10</u> ✓
Internal Standard All Samples	<u>20ul / 10ATRO10 / 1,2</u>	<u>4/8/11</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>10/27/10</u>
Soxhlet Extraction Analyst/Date	<u>ECJ 10/21/10</u>	Concentration Analyst/Date	<u>ECJ 10/22/10</u>	KD Analyst/Date	<u>ECJ 10/22/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>94°C</u>	Review Analyst/Date	

Preparation Data Review Checklist

Prep Batch(es) 0294378

Test: 10/13/10 ^{EC# 10/21/10} TO-13

Prep Date: 10/21/10

Holding Times: 10/25/10 NCM: Y **(N)**

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

Spike witness: [Signature]

Date: 10/21/10

2nd Level Reviewer: [Signature]

Date: 10/22/10

Comments:

LEV	LEV	LEV	LEV
1	2	1	2
Y	Blank	Y	Weights/Volumes
Y	Check	Y	Spike & Surrogate Worksheet
-	MS/MSD	Y	Vial contains correct volume
-		Y	Labels, greenbars, worksheets
		-	computer batch: correct & all match
		-	Anomalies to Extraction Method

Expanded Deliverable
 COC Completed
 Bench Sheet Copied
 Package Submitted to Analytical Group
 Bench Sheet Copied per COC

Extractionist: 403162 erica X. Larson
 Concentrationist: 403162 erica X. Larson

 * OC BATCH: 0294378 *
 * *****

PREP DATE: 10/21/10 16:30
 COMP DATE: 10/22/10 17:00

Reviewer/Date: LARSONE / 10/22/10

Semivolatiles Organics by GCMS in Air (TO-13A)
 SOXHLFT (NONE, Na2SO4)

EXTR EXPR	ANL DUE	LOT# MSRUN# / WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	INIT ADJ1	PH'S ADJ2	EXTRACTION VOL	EXCHANGE VOL	SOLVENTS	SPIKE STANDARD / SURROGATE ID
10/25/10	10/28/10	G0J210484-010 L8VH4-1-AA		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR125/ABN SURR
COMMENTS:												
10/25/10	10/28/10	G0J210484-012 L8VH7-1-AA		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR125/ABN SURR
COMMENTS:												
10/26/10	10/28/10	G0J210484-015 L8VDA-1-AA		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR125/ABN SURR
COMMENTS:												
10/26/10	10/28/10	G0J210484-016 L8VJD-1-AA		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR125/ABN SURR
COMMENTS:												
10/25/10	0/00/00	G0J210000-378 L8WGC-1-AAB		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	250UL/10AIR0120/1.2-DCB 500UL/10AIR125/ABN SURR
COMMENTS:												
10/25/10	0/00/00	G0J210000-378 L8WGC-1-ACC		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	1.0ML/10AIR0126/8270 MIX 500UL/10AIR125/ABN SURR
COMMENTS:												
10/25/10	0/00/00	G0J210000-378 L8WGC-1-ADL		R	11 JZ AIR	1.0Sample 1.00mL	NA	NA	DCM	700.0	.0	1.0ML/10AIR0126/8270 MIX 500UL/10AIR125/ABN SURR
COMMENTS:												

DCM LOT: J25S01

R = RUSH C = CLP
 E = BPA 600 D = EXP. DEL) NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento
GC/MS Data Review Checklist

Batch: 0294378

Method ID: Semivolatile Organics by GCMS in Air (TO-13A)

NCM: Ⓢ N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	/	/	
2. ICAL, CCV Criteria met.	/	/	
3. Peaks correctly ID'd by data system.	/	/	
4. Copy of logbook for ICAL included	/	/	
5. Tune criteria (including tailing factor and breakdown) met and copy included.	/	/	
6. Method Number is identified on data.	/	/	
B. QA/QC			
1. Method blank, LCS/LCSD and MS/SD frequencies met.	/	/	
2. LCS/LCSD and MB data is included.	/	/	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	/	/	
4. MS/MSD data complete.			/
5. Holding Times were met.	/	/	
6. All samples within tune time.	/	/	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	/	/	
2. Logbooks/prep sheets properly filled out.	/	/	
3. Manual Integrations reviewed and appropriate.			/
4. All raw data for samples is included (applies to unused data as well)	/	/	
5. All analytes correctly reported.	/	/	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	/	/	
7. Spectra present for all positives.	/	/	
D. Documentation			
1. Are all nonconformances documented appropriately?	/	/	
2. Quantims entry correct, including dates and times.	/	/	
3. Appropriate footnotes used.	/	/	

Analyst: [Signature]

Date: 10/29/10

2nd Level Reviewer: [Signature]

Date: 10/29/10

Comments: _____

AIR, TO-9, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

V810.30.5

Run text: L8V09-1-AA Sample text: L8V09-1-AA :G0J210484-11MB
 Run #8 Filename: 28OC104D5 S: 3 I: 1 Results: 28OC104D5T09
 Acquired: 28-OCT-10 11:06:06 Processed: 28-OCT-10 12:17:47
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	65548228	0.79 y	20:03	-	39.252	-	-	n
13C-2,3,7,8-TCDF	70528202	0.80 y	19:26	1.23	3500.973	3.064	87.5	n
2,3,7,8-TCDF	*	* n	NotFnd	0.99	*	2.148	-	n
Total TCDF	*	* n	NotFnd	0.99	*	2.148	-	n
13C-2,3,7,8-TCDD	54937350	0.77 y	20:16	0.91	3704.175	5.045	92.6	n
2,3,7,8-TCDD	6715	0.22 n	20:18	0.98	0.497	2.227	-	n
Total TCDD	14313	0.22 n	20:18	0.98	1.060	2.227	-	n
37Cl-2,3,7,8-TCDD	31068636	1.00 y	20:16	1.33	1705.878	0.193	106.6	n
13C-1,2,3,7,8-PeCDF	53314120	1.51 y	25:21	0.88	3713.749	4.283	92.8	n
1,2,3,7,8-PeCDF	*	* n	NotFnd	1.08	*	2.145	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	1.05	*	2.209	-	n
Total F2 PeCDF	6925	0.20 n	26:36	1.06	0.490	2.176	-	n
Total F1 PeCDF	7913	0.13 n	18:26	1.06	0.559	2.210	2.764	n
13C-1,2,3,7,8-PeCDD	38941148	1.52 y	27:45	0.66	3596.015	2.760	89.9	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	2.576	-	n
Total PeCDD	2095930.04	n	24:24	0.93	2.326	2.576	-	n
13C-1,2,3,7,8,9-HxCDD	44671890	1.28 y	33:22	-	37.730	-	-	n
13C-1,2,3,4,7,8-HxCDF	38199212	0.50 y	32:17	1.04	3273.803	21.106	81.8	n
1,2,3,4,7,8-HxCDF	29033	0.59 n	32:19	1.22	2.498	0.629	-	n
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.28	*	0.597	-	n
2,3,4,6,7,8-HxCDF	16380	1.24 y	32:56	1.23	1.391	0.621	-	n
1,2,3,7,8,9-HxCDF	20946	1.76 n	33:33	1.10	1.997	0.697	-	n
Total HxCDF	73702	2.83 n	31:08	1.21	6.522	4.50	0.634	n
13C-1,2,3,6,7,8-HxCDD	34722623	1.28 y	33:07	0.83	3742.367	0.475	93.6	n
1,2,3,4,7,8-HxCDD	9718	1.66 n	33:05	1.04	1.079	1.141	-	n
1,2,3,6,7,8-HxCDD	18161	1.11 y	33:08	1.16	1.799	1.018	-	n
1,2,3,7,8,9-HxCDD	5956	4.38 n	33:23	1.18	0.581	1.002	-	n
Total HxCDD	99764	0.19 n	31:16	1.13	10.197	1.80	1.050	n
13C-1,2,3,4,6,7,8-HpCDF	34118958	0.42 y	34:53	0.91	3357.139	24.477	83.9	n
1,2,3,4,6,7,8-HpCDF	42059	2.91 n	34:53	1.35	3.664	1.191	-	n
1,2,3,4,7,8,9-HpCDF	9080	2.35 n	36:03	1.09	0.974	1.465	-	n
Total HpCDF	66454	2.91 n	34:53	1.22	6.110	3.66	1.314	n
13C-1,2,3,4,6,7,8-HpCDD	33287893	1.06 y	35:43	0.83	3605.898	8.212	90.1	n
1,2,3,4,6,7,8-HpCDD	34228	0.98 y	35:43	1.07	3.838	2.423	-	n
Total HpCDD	85779	1.91 n	34:53	1.07	9.618	6.41	2.423	n
13C-OCDD	44695882	0.86 y	38:16	0.62	6456.137	2.969	80.7	n

OCDF	22720	0.53	n	38:22	1.37	← SIN	2.968	DL	2.921	-	n
OCDD	104923	0.82	y	38:16	1.20		15.659	J	2.365	-	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:0
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: * of which * named and * unnamed
 Conc: * of which * named and * unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	NotF7	* n	*	*	*	n	n
					*	*	n	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 0.530 of which 0.249 named and 0.281 unnamed
 Conc: 1.060 of which 0.497 named and 0.562 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
2,3,7,8-TCDD	1	20:18	0.222 n	0.497	2921	1.241	n	n
					13152	2.334	n	n
	2	21:51	1.043 n	0.562	4478	1.198	n	n
					4292	1.052	n	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:2
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 0.245 of which * named and 0.245 unnamed
 Conc: 0.490 of which * named and 0.490 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	26:36	0.205 n	0.181	1552	1.928	n	n
					7588	0.880	n	n
	2	27:34	0.483 n	0.309	2658	3.219	y	n
					5499	1.400	n	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:4
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 0.280 of which * named and 0.280 unnamed
 Conc: 0.559 of which * named and 0.559 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	18:26	0.129 n	0.178	1529	3.629	y	n
					11823	2.421	n	n
	2	20:54	0.385 n	0.255	2191	5.743	y	n
					5697	1.467	n	n
	3	21:35	0.224 n	0.107	916	3.365	y	n
					4099	1.027	n	n
	4	21:42	0.016 n	0.020	173	0.615	n	n
					10552	2.814	n	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:7
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 1.163 of which * named and 1.163 unnamed
 Conc: 2.326 of which * named and 2.326 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	24:24	30.07 n	0.103	10977 365	1.938 1.484	n	n
	2	25:21	7.374 n	0.274	7137 968	1.463 2.834	n	n
	3	26:09	3.321 n	0.446	5238 1577	1.778 6.041	n	n
	4	26:15	3.414 n	0.446	5384 1577	1.372 6.041	n	n
	5	26:58	97.97 n	0.040	13799 141	2.182 0.489	n	n
	6	28:58	2.113 n	0.614	4582 2168	1.821 6.477	n	n
	7	29:56	5.901 n	0.403	8393 1422	1.396 5.314	n	n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 3.261 of which 2.943 named and 0.318 unnamed
 Conc: 6.522 of which 5.885 named and 0.637 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:08	2.831 n	0.379	5520 1950	3.312 8.503	y	n
1,2,3,4,7,8-HxCDF	2	32:19	0.994 n	2.498	16072 16176	6.314 44.849	y	n
	3	32:31	0.655 n	0.258	1648 2517	1.004 10.500	n	n
2,3,4,6,7,8-HxCDF	4	32:56	1.243 y	1.391	9078	4.013	y	n

4.5

					7302	35.406	y	n
1,2,3,7,8,9-HxCDF	5	33:33	1.761 n	1.997	16469	4.404	y	n
					9351	41.864	y	n

Totals Results TestAmerica West Sacramento Page 7 of 9

Run Text: L8V09-1-AA Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:10
 Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 5.098 of which 1.730 named and 3.369 unnamed
 Conc: 10.197 of which 3.459 named and 6.738 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:16	0.192 n	0.132	714 3717	3.086 1.619	y n	n n
	2	31:22	0.319 n	0.301	1632 5123	9.150 1.077	y n	n n
	3	32:18	1.203 y	1.485	7935 6595	26.491 1.997	y n	n n
	4	32:22	2.352 n	1.510	15510 6595	59.361 1.997	y n	n n
	5	32:55	2.040 n	1.351	12039 5902	47.744 1.735	y n	n n
1,2,3,4,7,8-HxCDD	6	33:05	1.661 n	1.079	7204 4339	27.855 2.184	y n	n n
1,2,3,6,7,8-HxCDD	7	33:08	1.112 y	1.799	9564 8597	40.537 2.605	y n	n n
1,2,3,7,8,9-HxCDD	8	33:23	4.385 n	0.581	11659 2659	34.568 1.177	y n	n n
	9	33:32	2.173 n	1.418	13464 6195	39.372 1.749	y n	n n
	10	34:02	0.527 n	0.541	2929 5561	14.686 1.983	y n	n n

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 3.055 of which 2.319 named and 0.736 unnamed
Conc: 6.110 of which 4.637 named and 1.472 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains data for HpCDF and HpCDF compounds with handwritten annotations.

Run Text: L8V09-1-AA

Sample text: L8V09-1-AA :G0J210484-11MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 8 File: 28OC104D5 S:3 Acq:28-OCT-10 11:06:06
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 4.809 of which 1.919 named and 2.890 unnamed
Conc: 9.618 of which 3.838 named and 5.780 unnamed

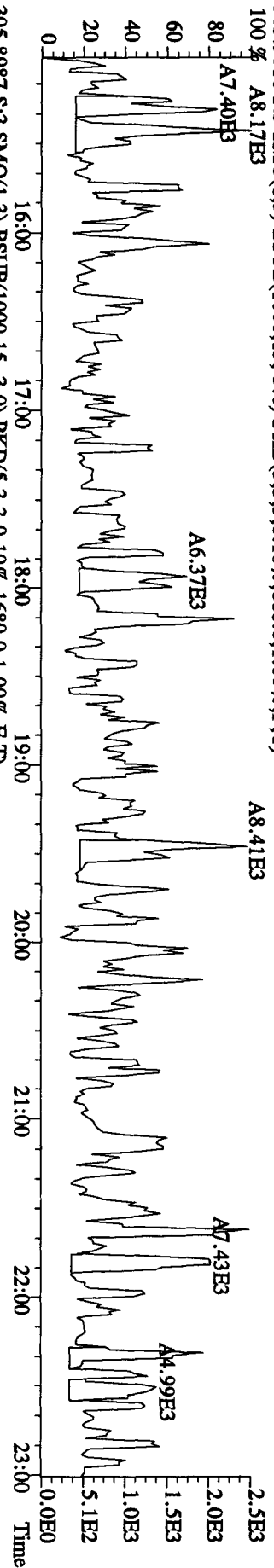
Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains data for HpCDD compounds with handwritten annotations and a handwritten number '6.41' on the right.

File:280C104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

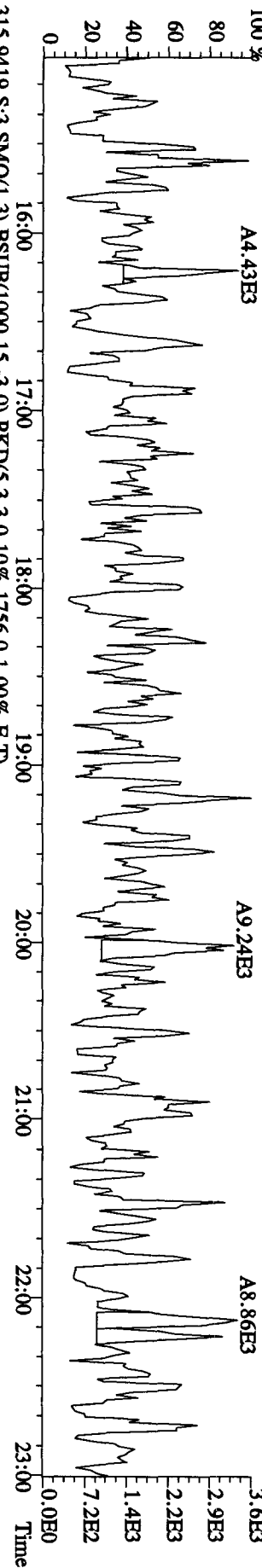
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,888,0,1,00%,F,T)

100% A8.17E3



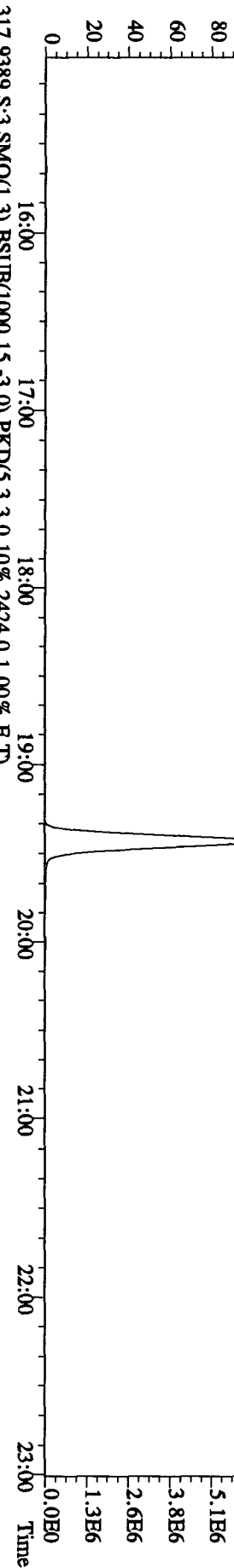
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1680,0,1,00%,F,T)

100% A4.43E3



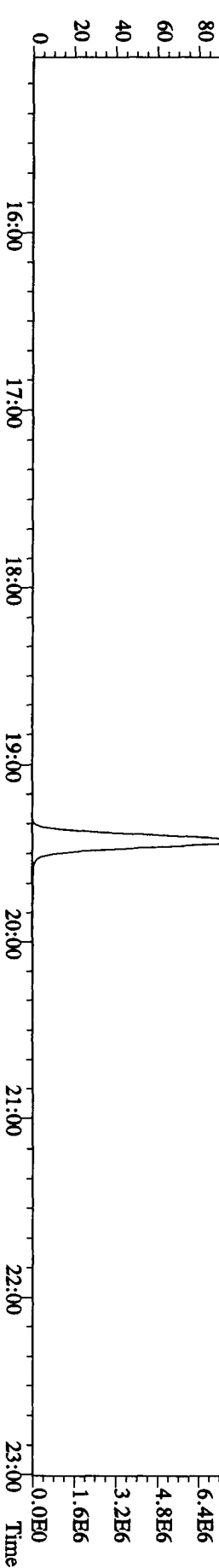
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1756,0,1,00%,F,T)

100% A3.14E7



317.9389 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2424,0,1,00%,F,T)

100% A3.91E7

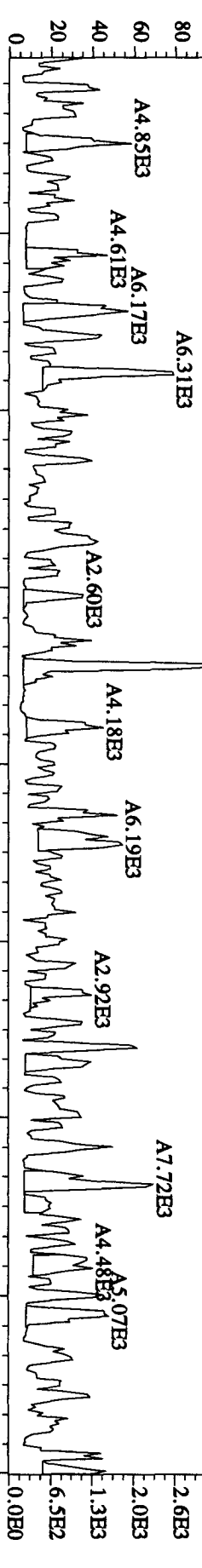


File: 280C104D5 #1-530 Acq: 28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text: L8V09-1-AA : G0J210484-11MB Exp: DIOXINRES

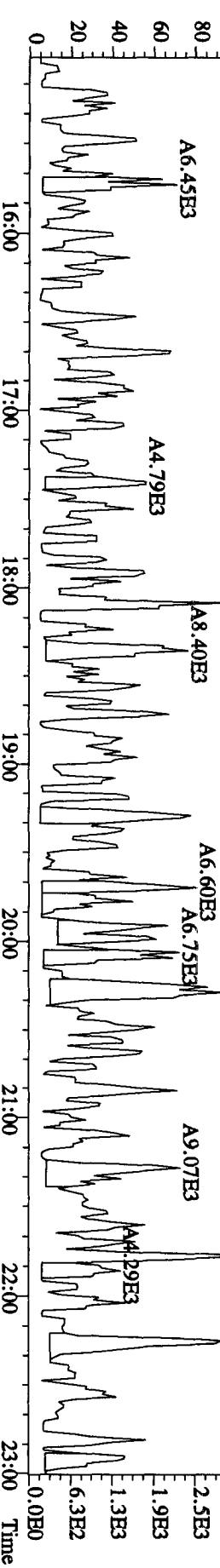
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,776.0,1.00%,F,T)

100% A9.58E3



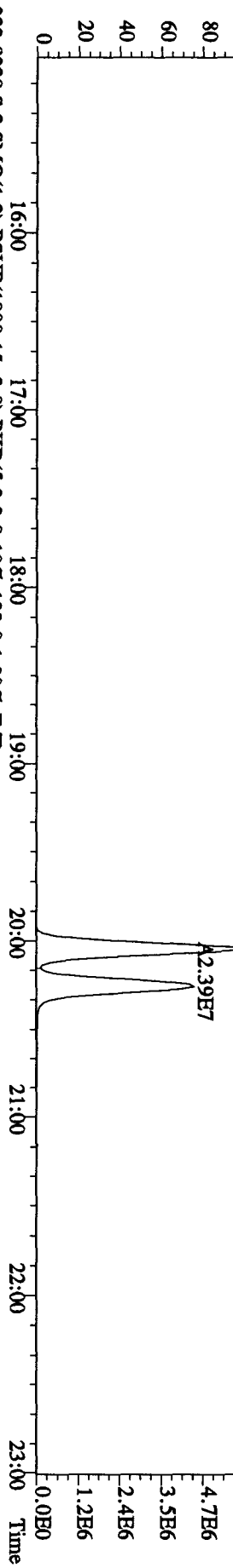
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1136.0,1.00%,F,T)

100%



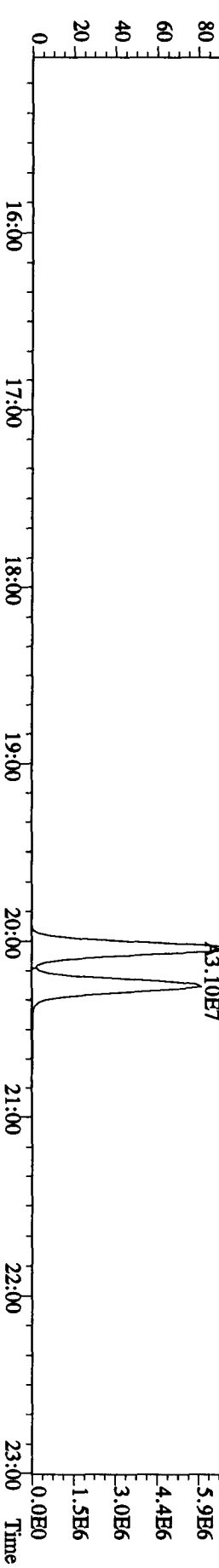
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4936.0,1.00%,F,T)

100%

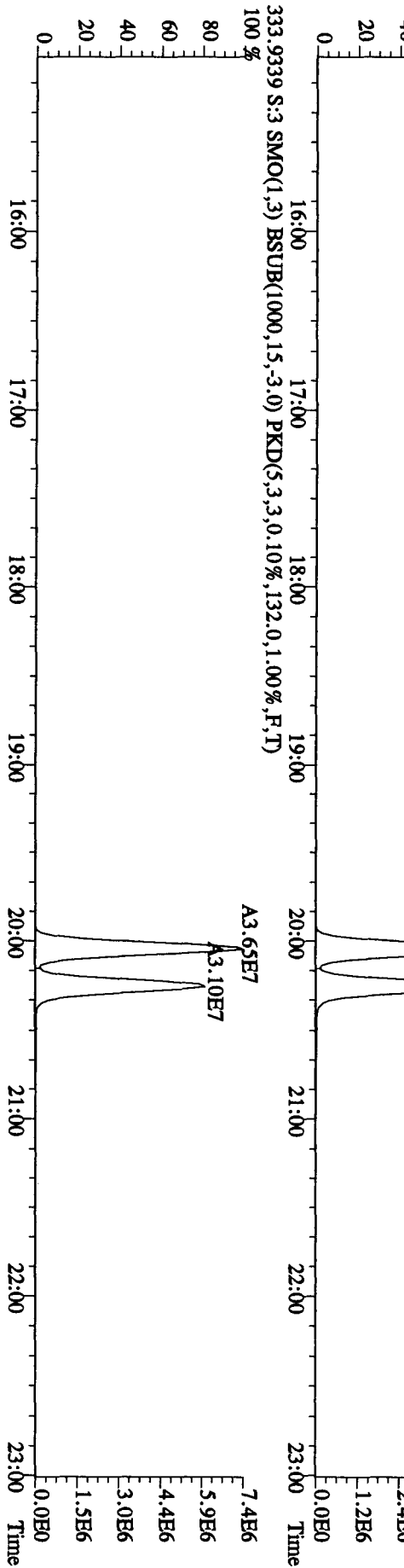
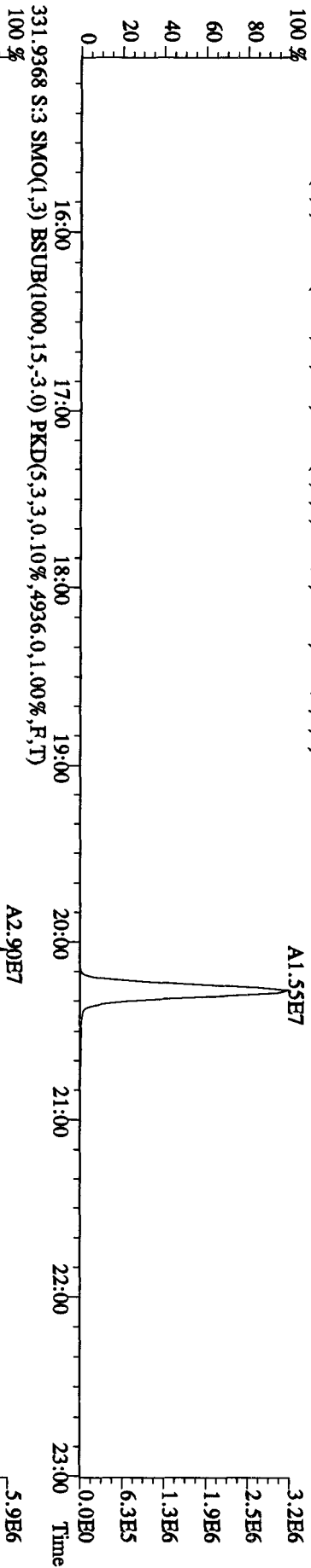
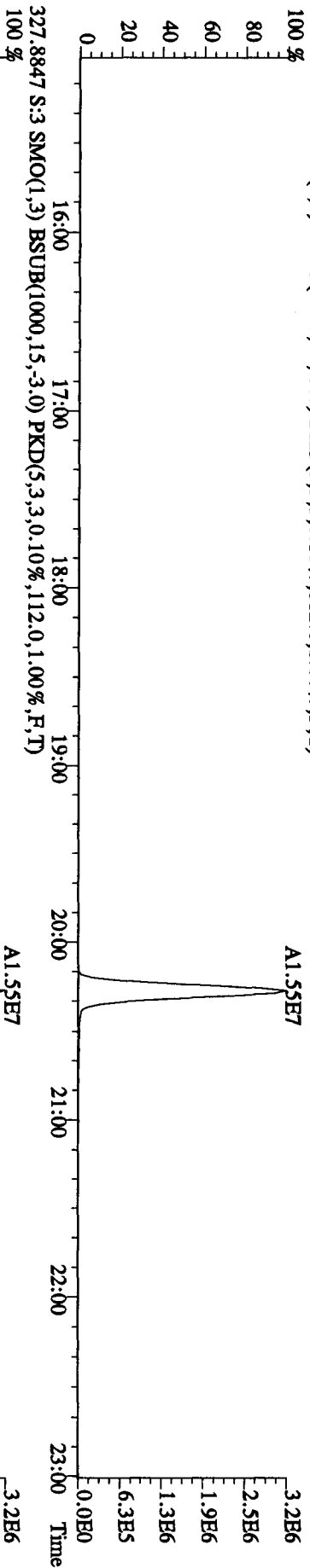


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,132.0,1.00%,F,T)

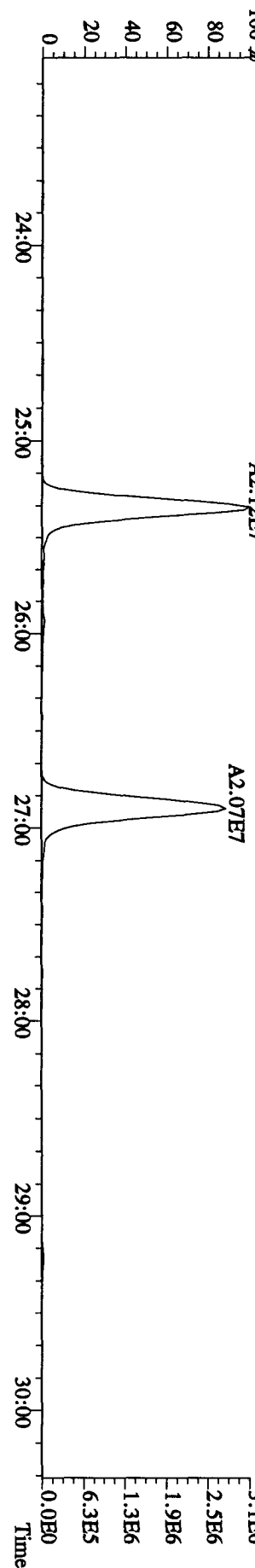
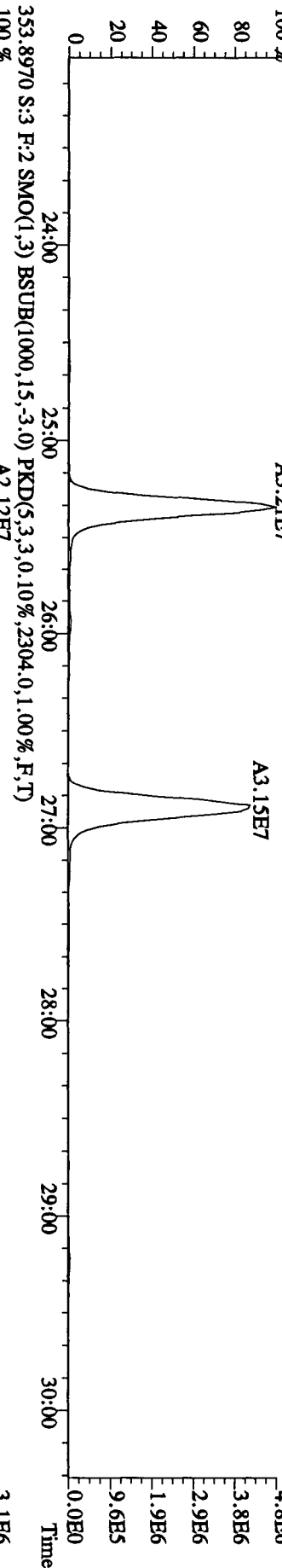
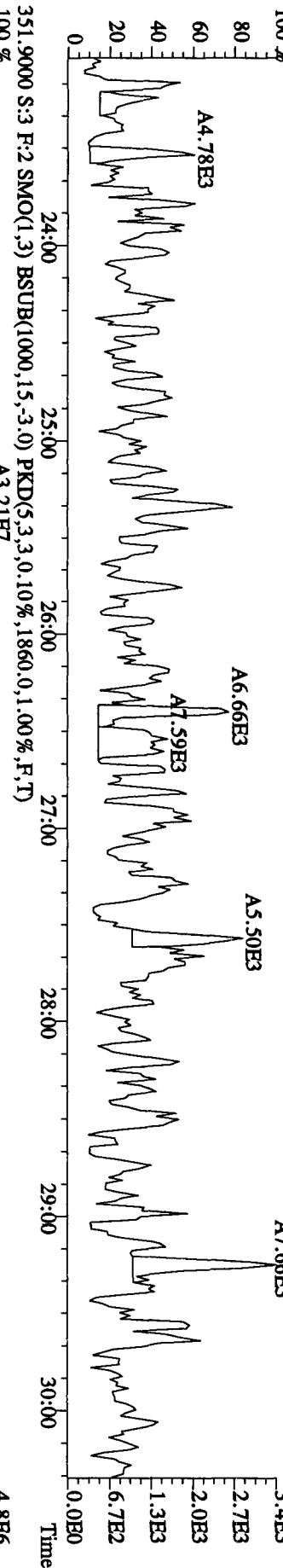
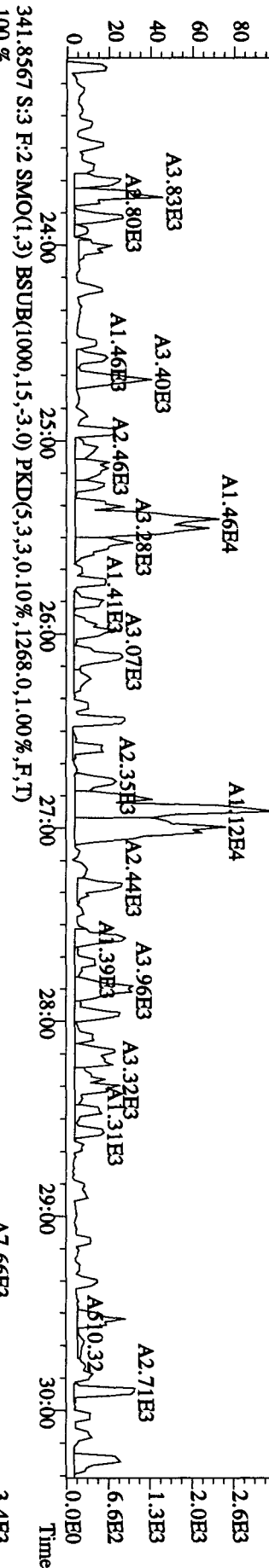
100%



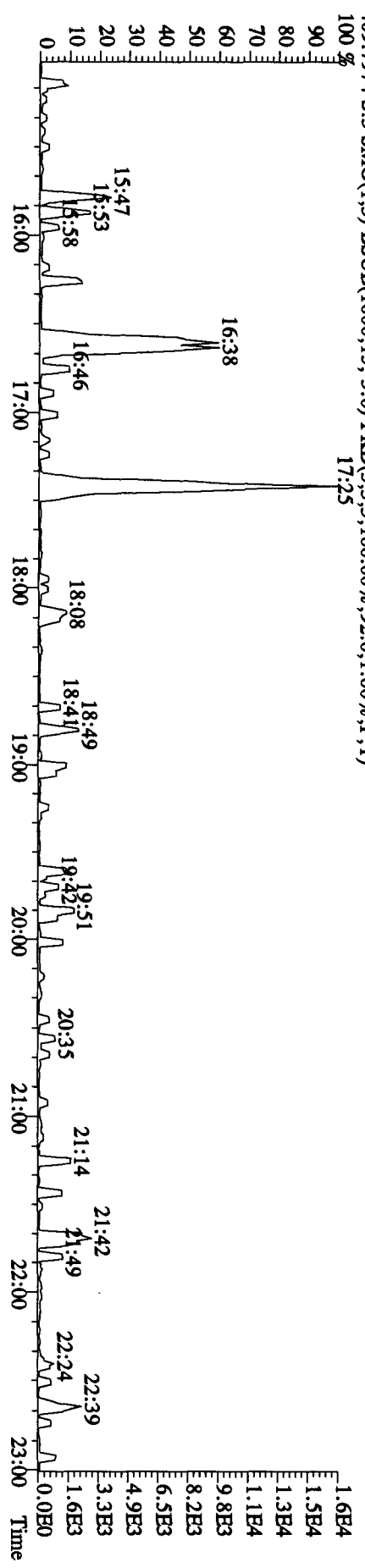
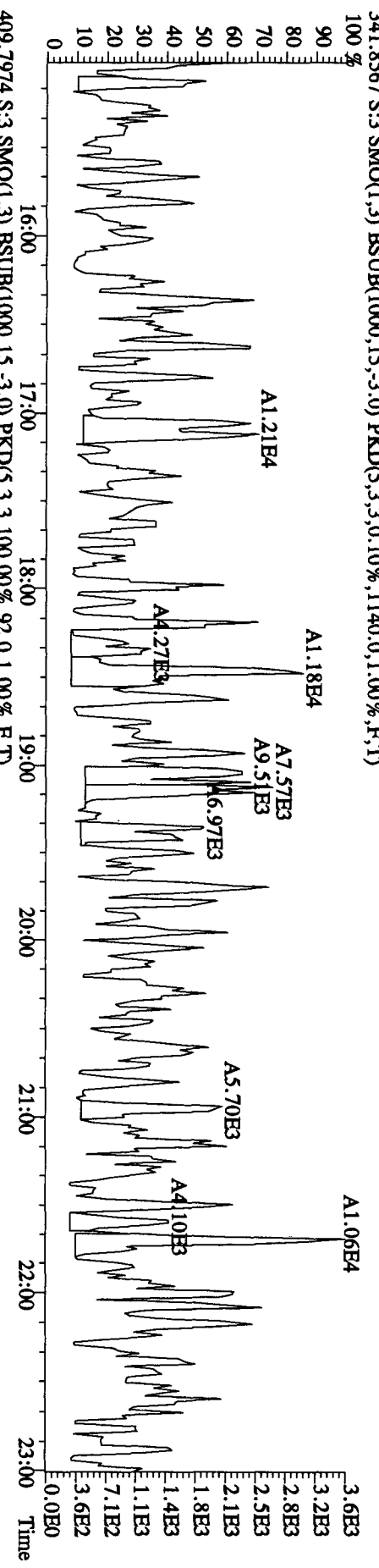
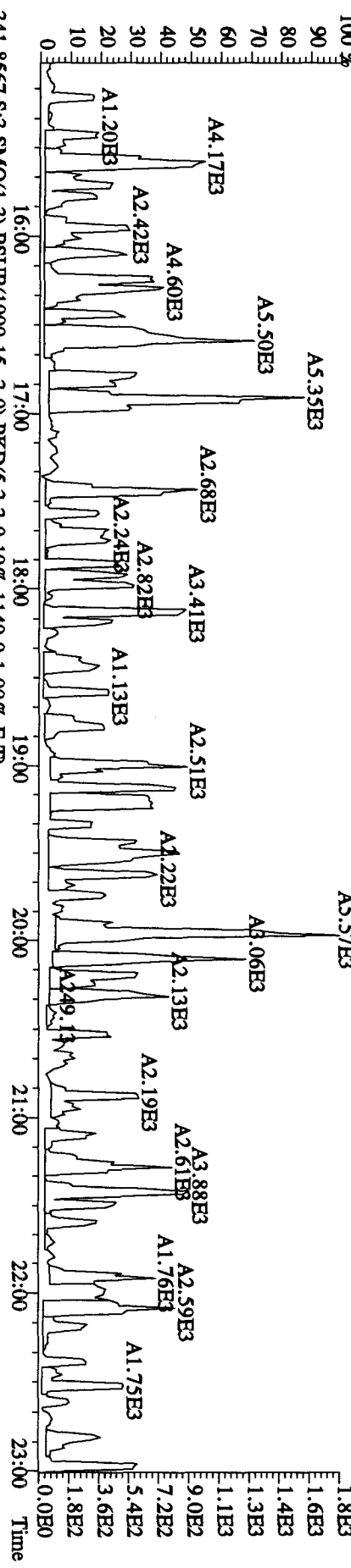
File:280C104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:L8V09-1-AA :G0J210484-1IMB Exp:DIOXINRES
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,112.0,1,00%,F,T)



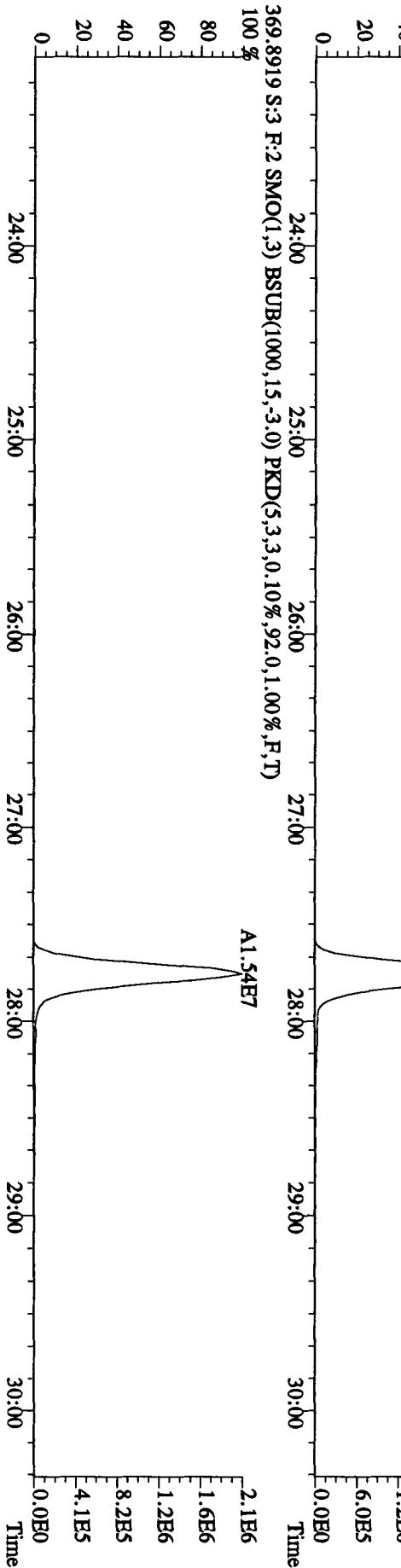
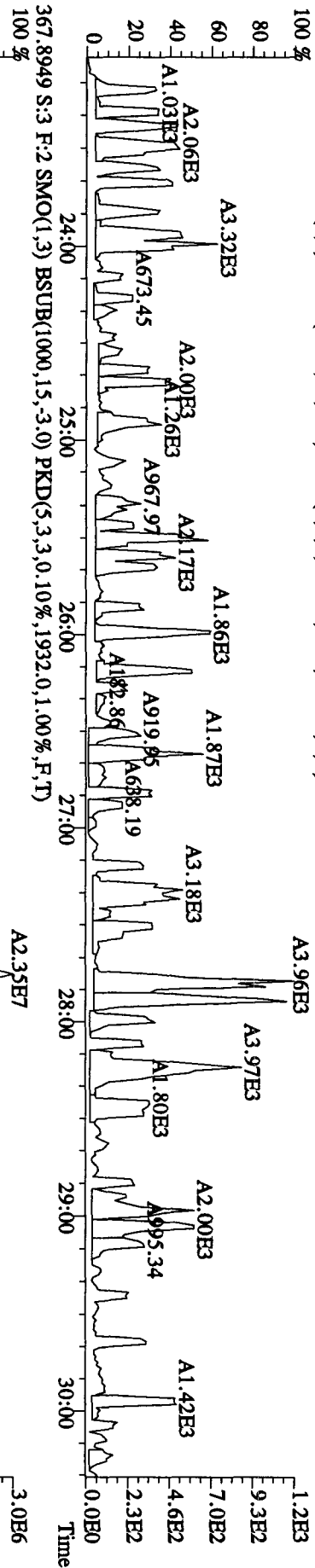
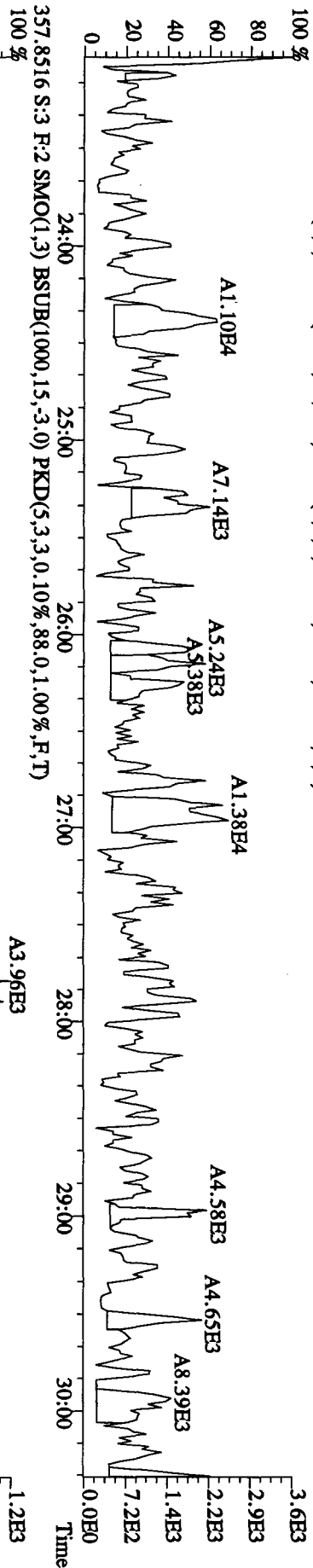
File:280C104D5 #1-470 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,252.0,1.00%,F,T) A1.29E4



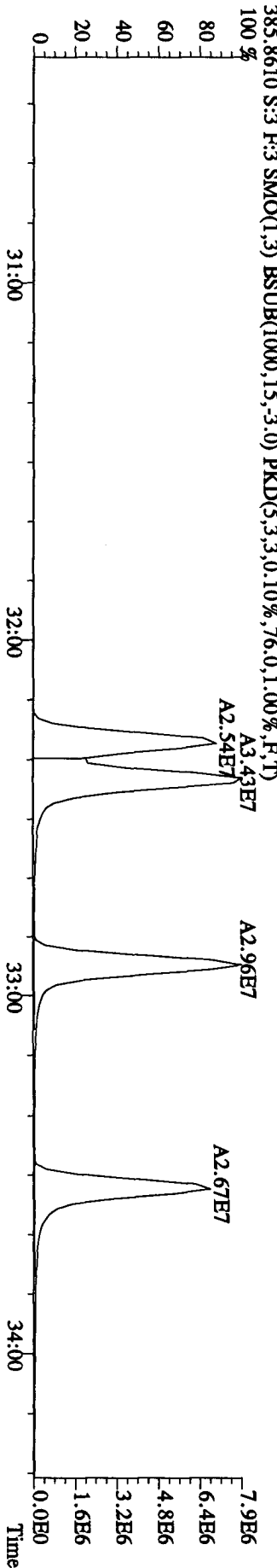
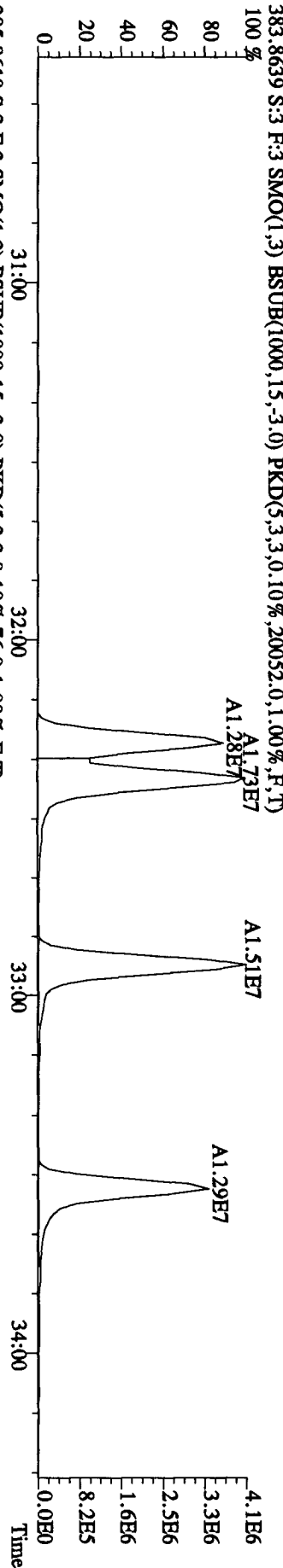
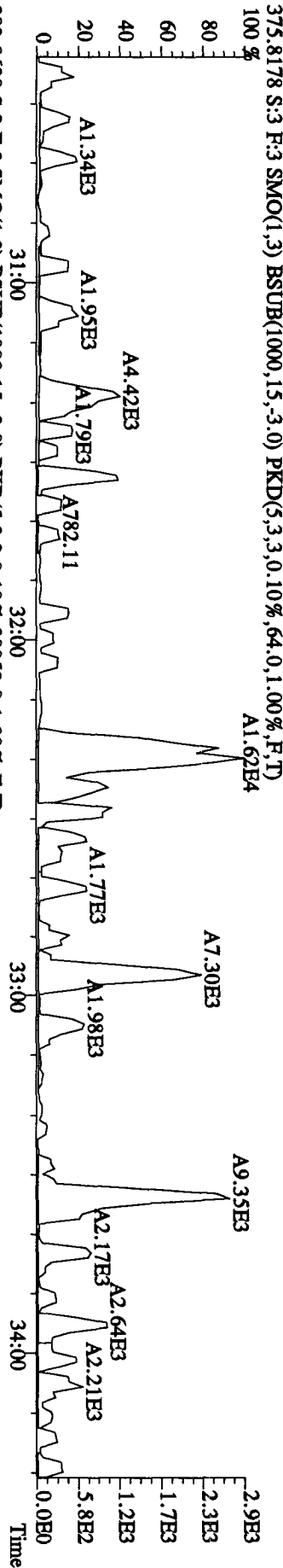
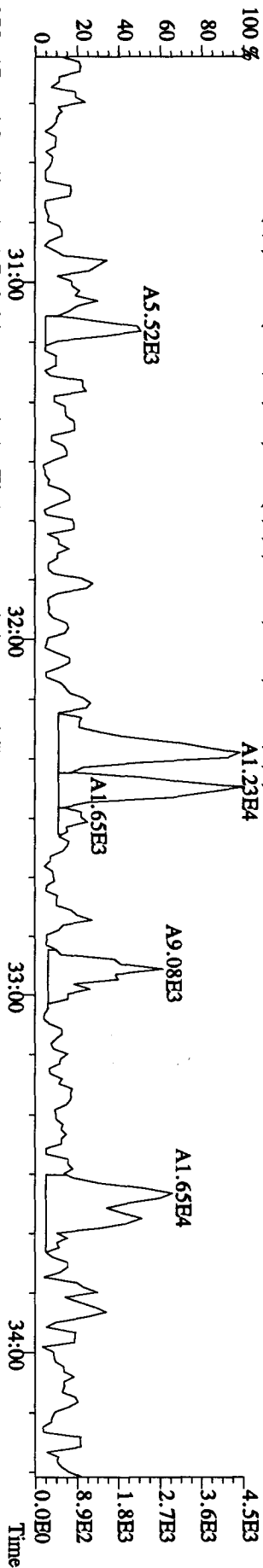
File:280C104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC BI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp.:DIOXINRES
 339.8397 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



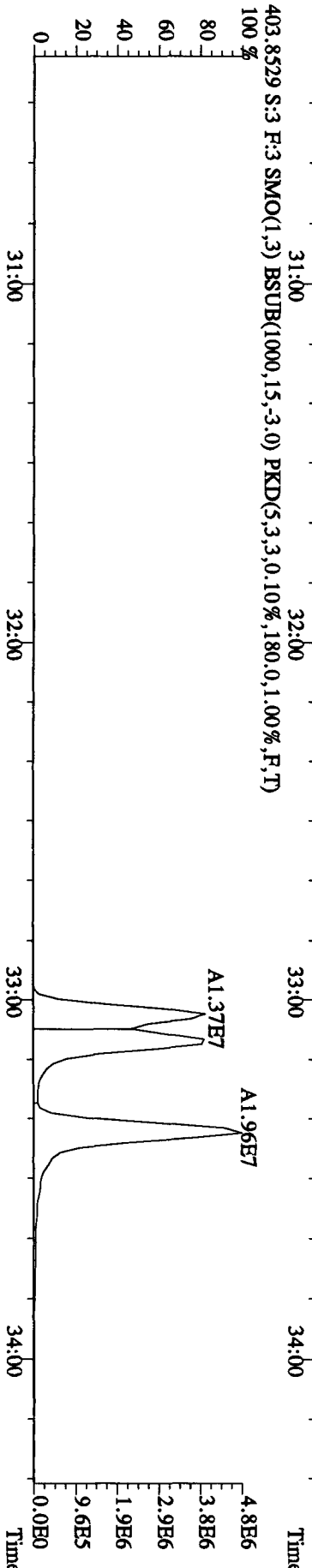
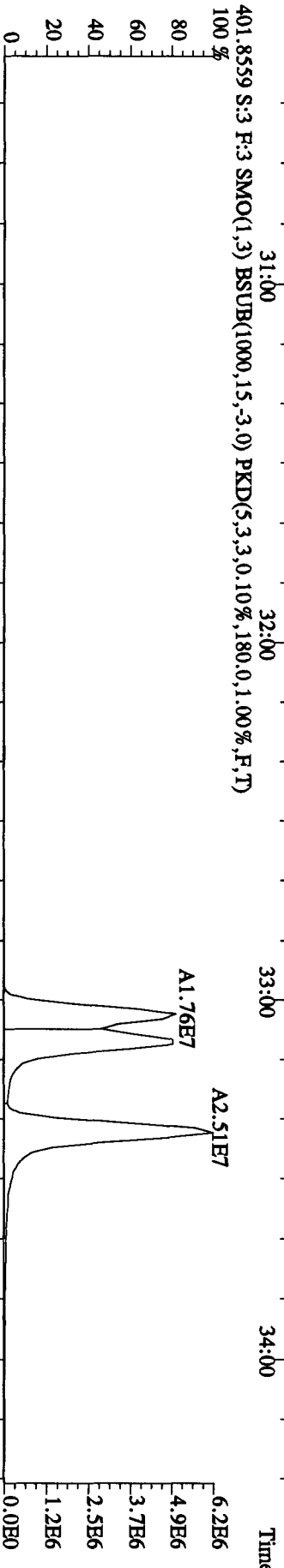
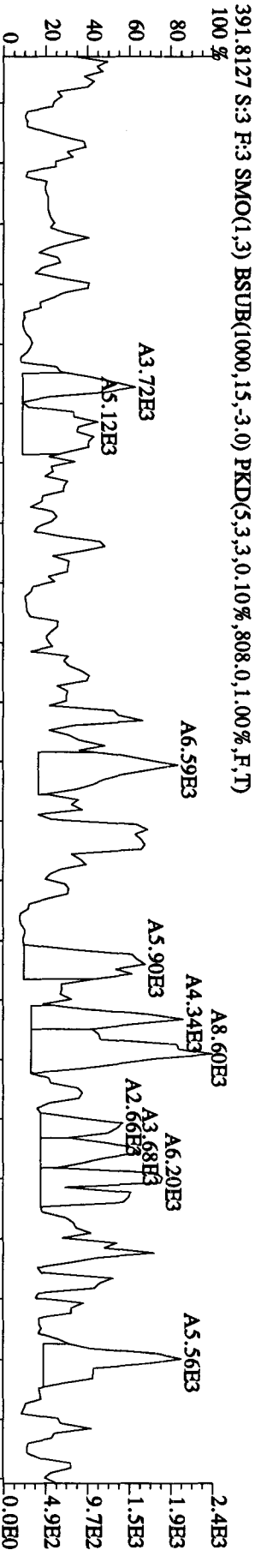
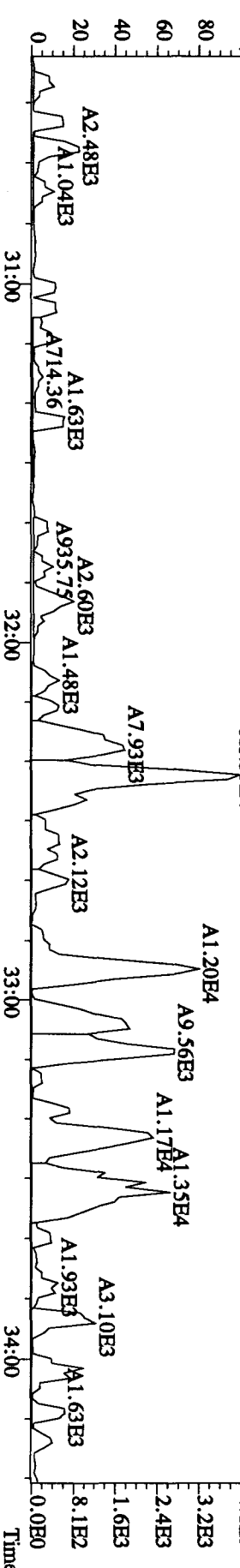
File: 280C104D5 #1-470 Acq: 28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: L8V09-1-AA : G0J210484-11MB Exp: DIOXINRES
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



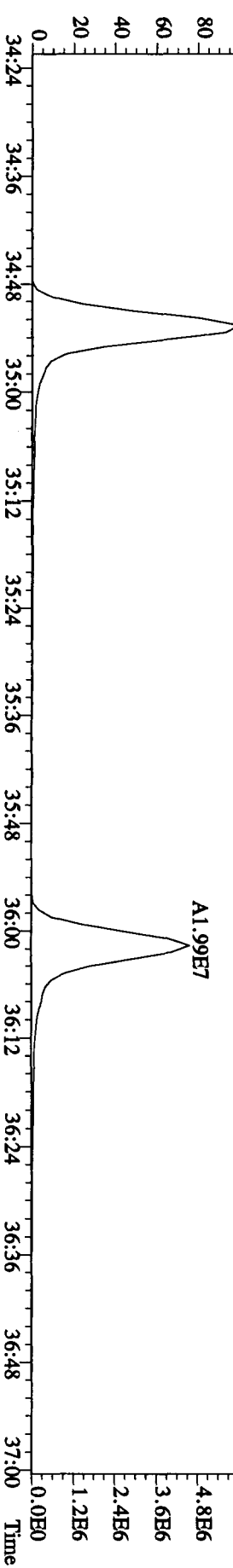
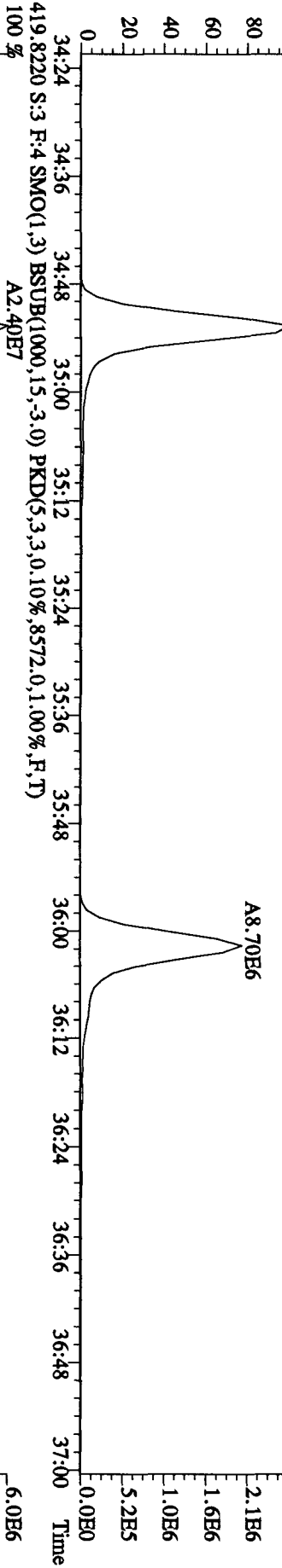
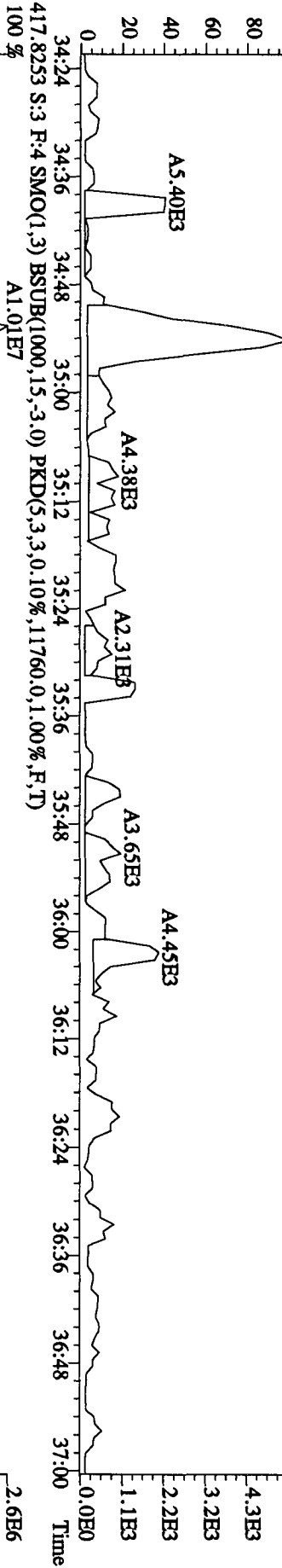
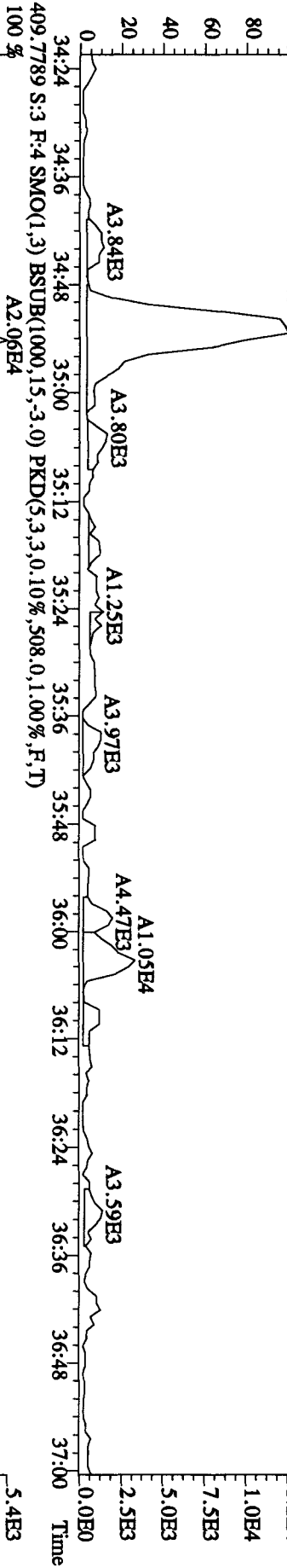
File:280C104D5 #1-287 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)



File: 28OCT104D5 #1-287 Acq: 28-OCT-2010 11:06:06 GC EI + Voltage SIR Autospec-UltimaB
 Sample#3 Text: L8V09-1-AA :G0J210484-11MB Exp: DIOXINRES
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T) A1.55E4

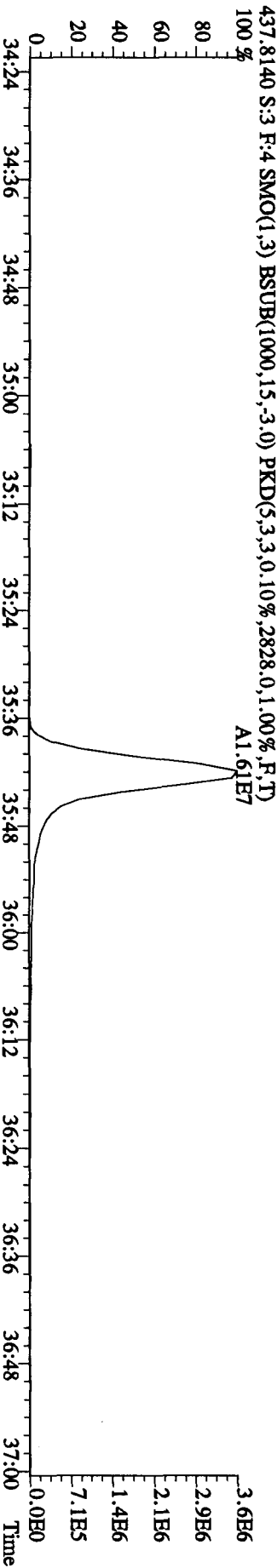
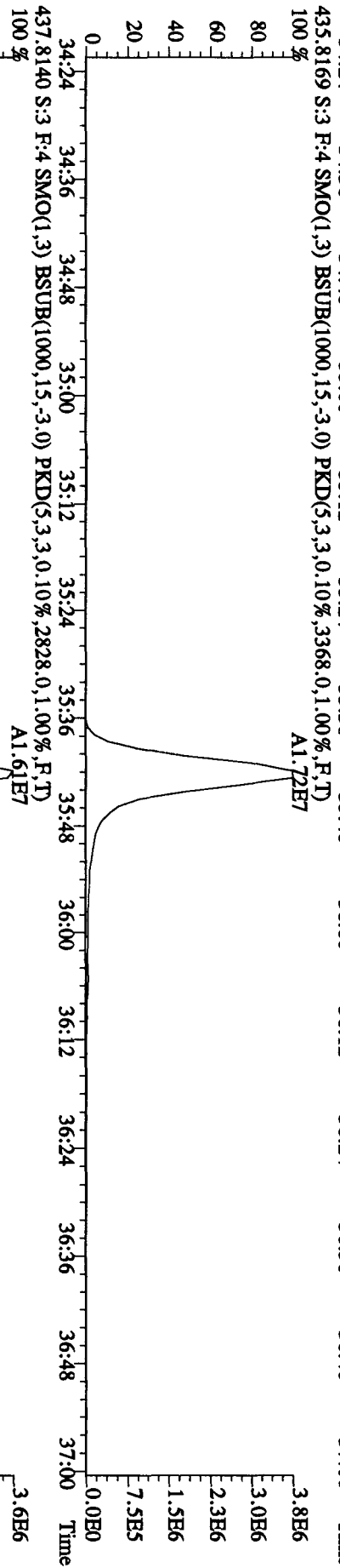
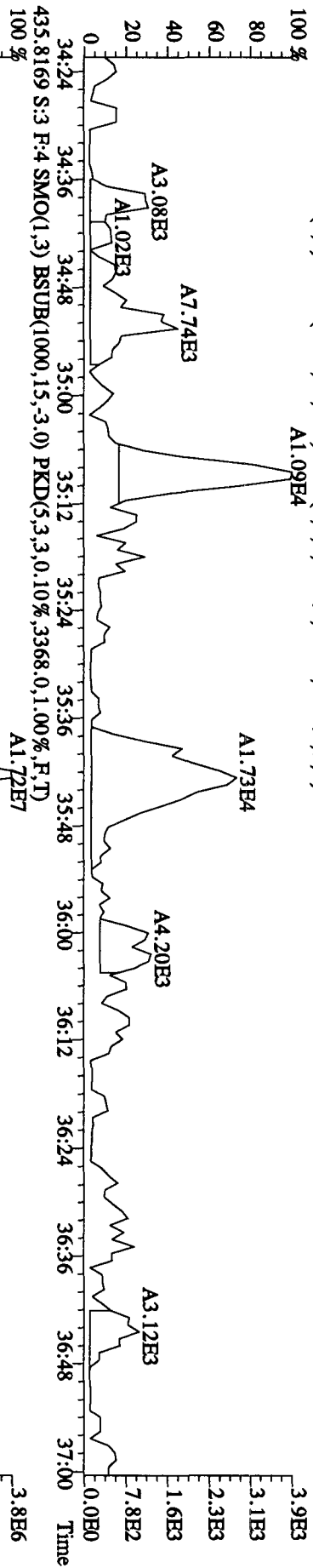
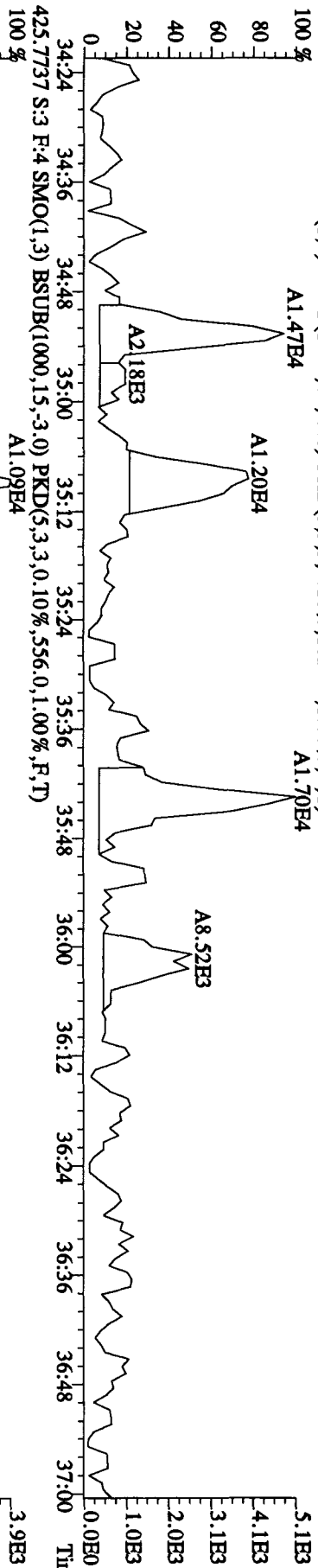


File:28OC104D5 #1-200 Acq:28-OCT-2010 11:06:06 GC EI + Voltage SIR Autospec-UtimaE
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)

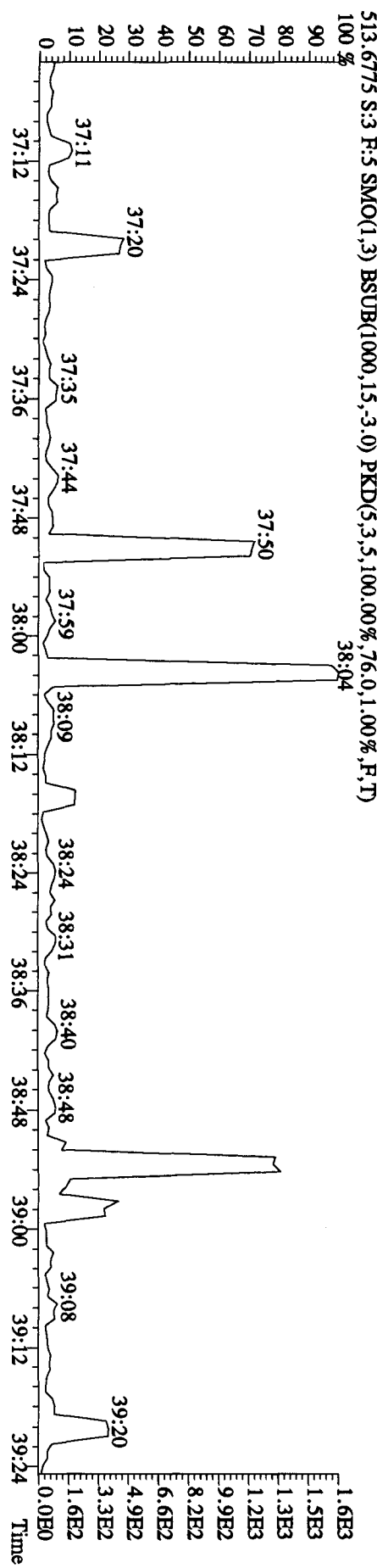
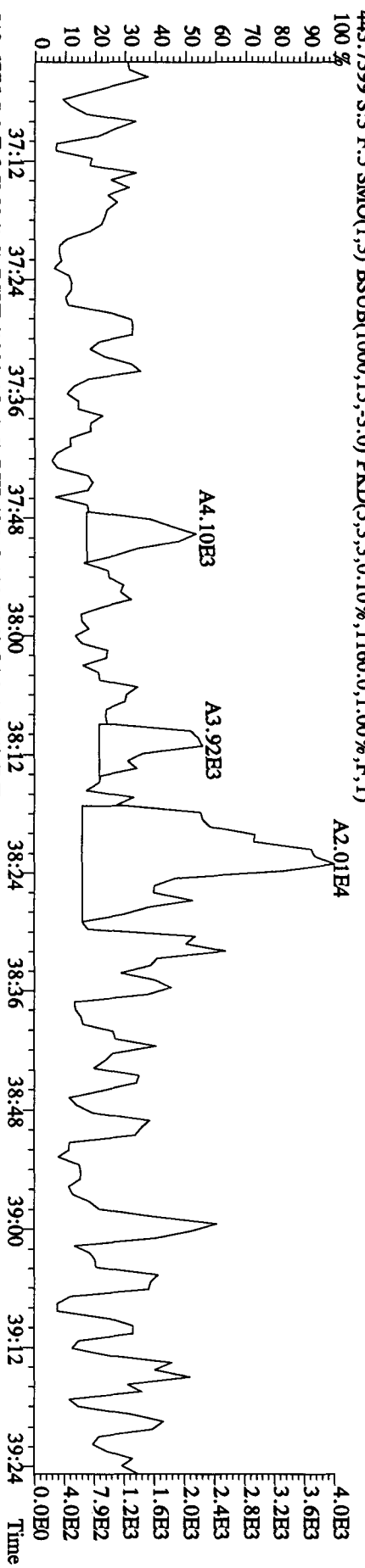
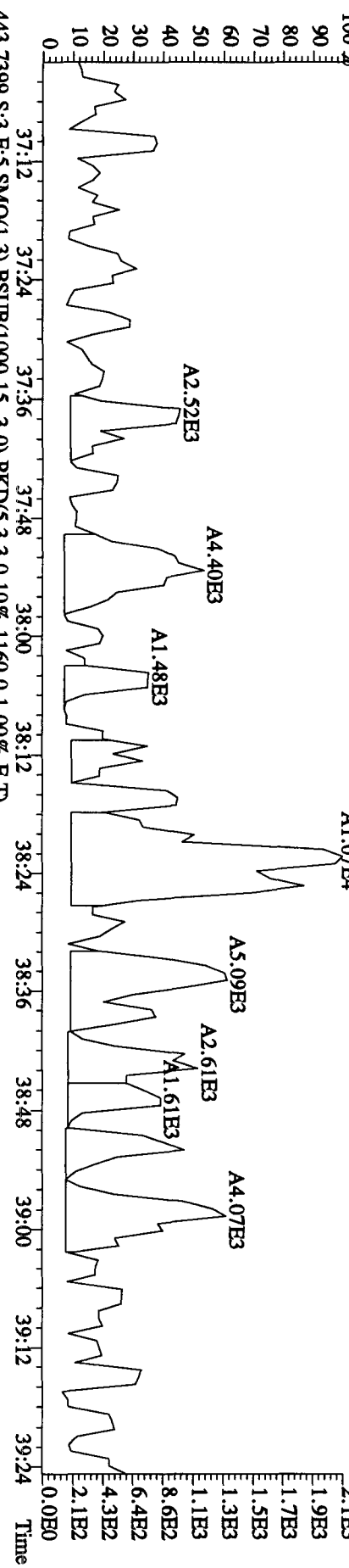


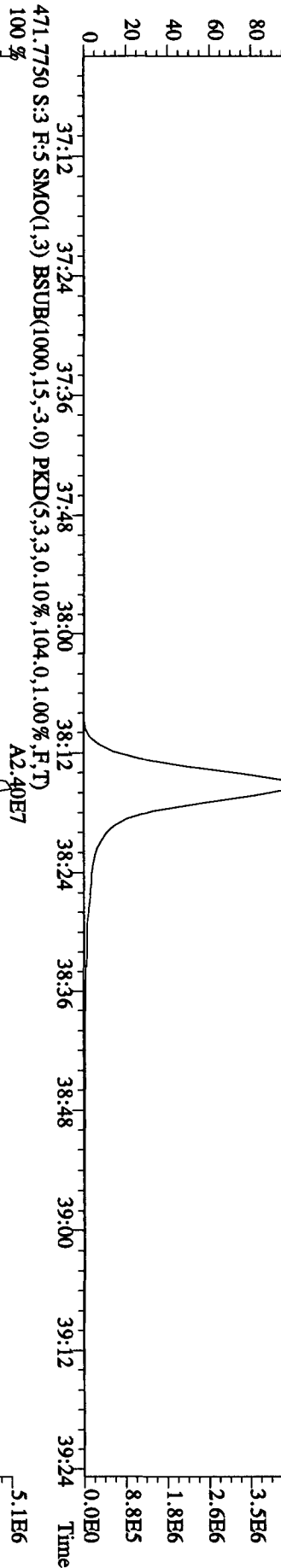
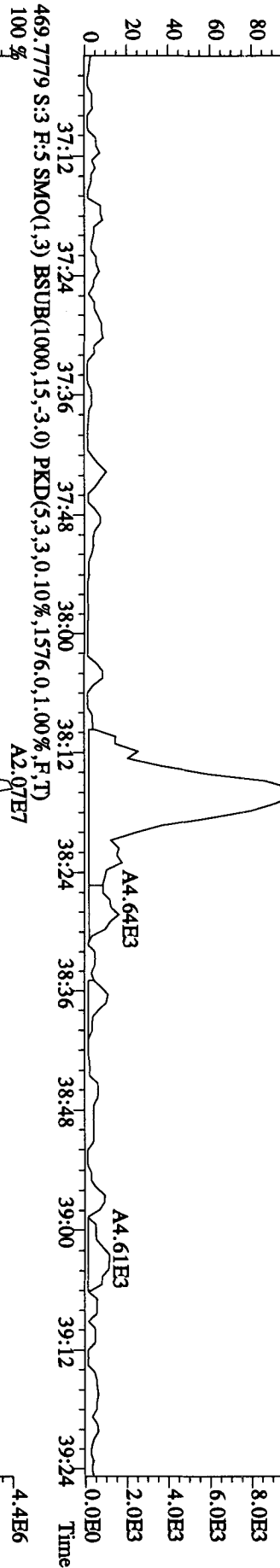
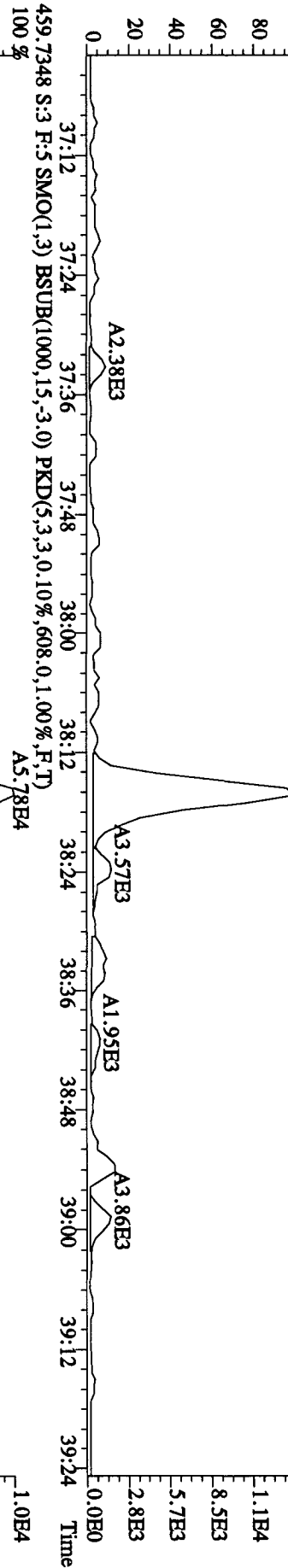
Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1028,0,1.00%,F,T)



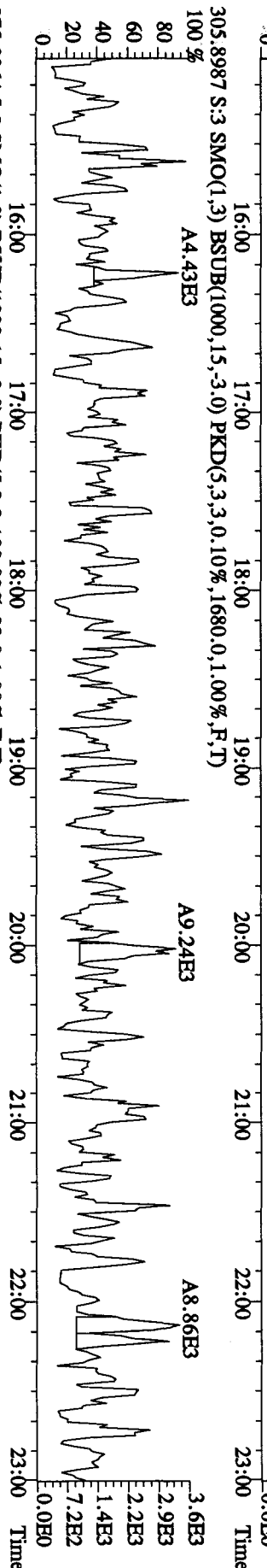
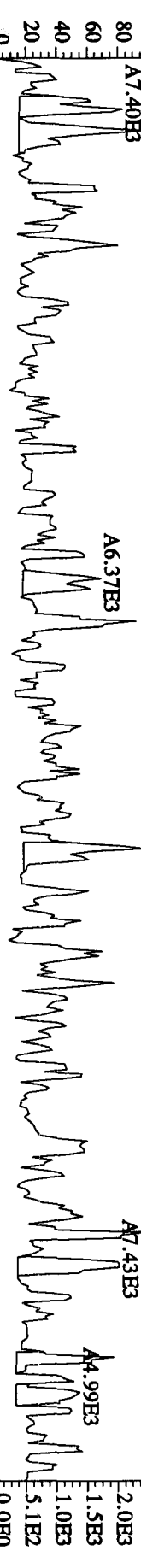
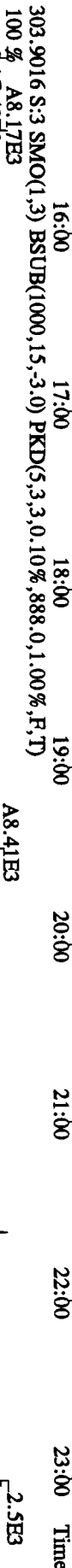
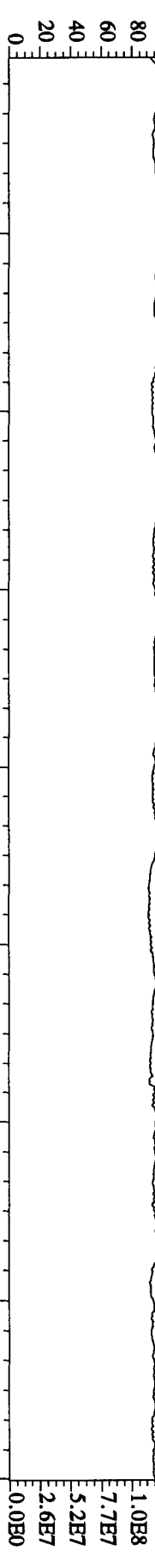
File: 28OC104D5 #1-193 Acq: 28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: L8V09-1-AA : G0J210484-11MB Exp: DIOXINRES
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,432.0,1.00%,F,T)





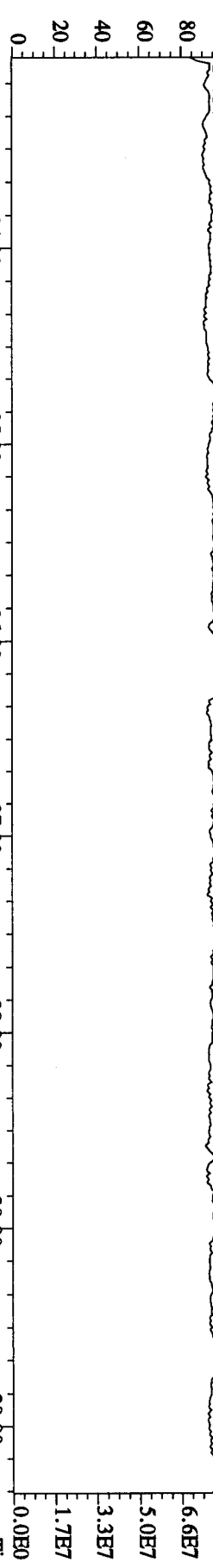
Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

292.9825 S:3 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)

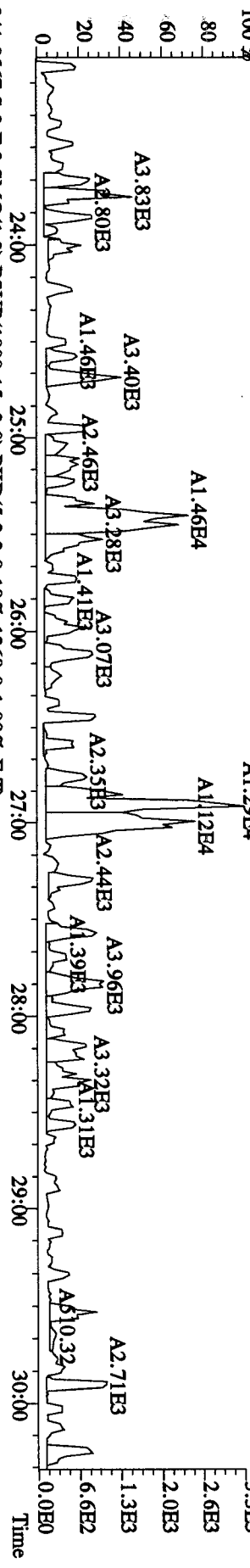


Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

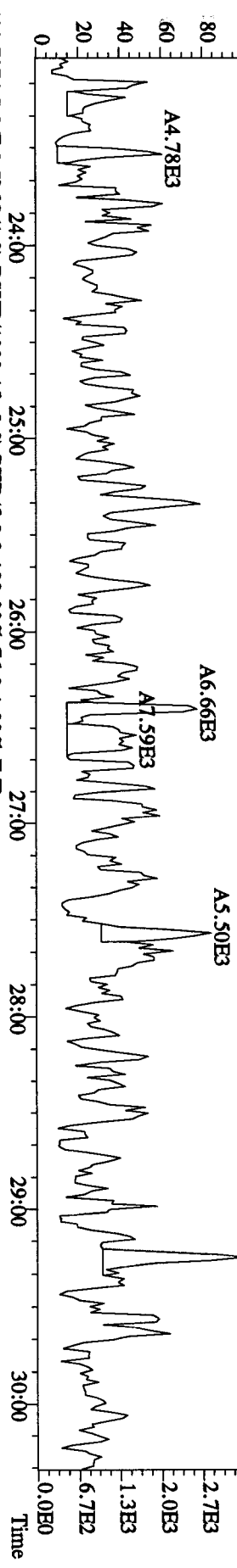
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



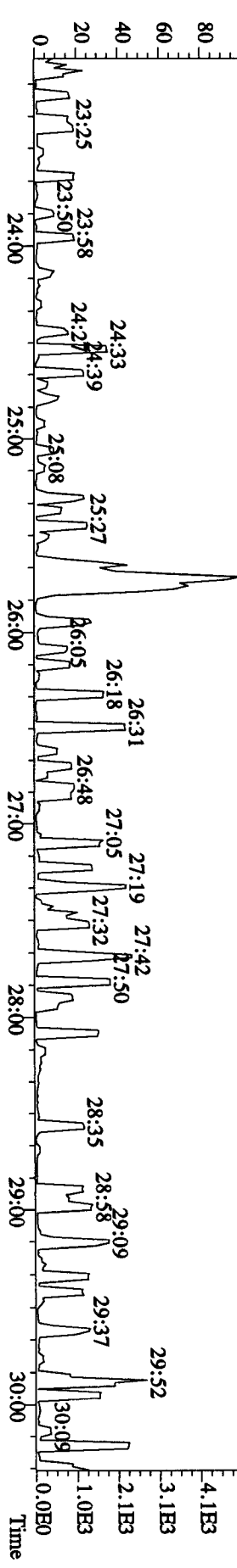
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,252.0,1.00%,F,T)



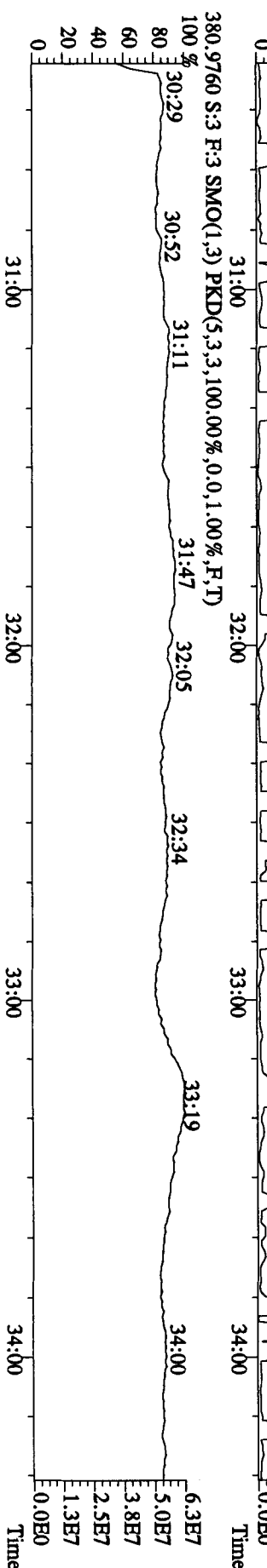
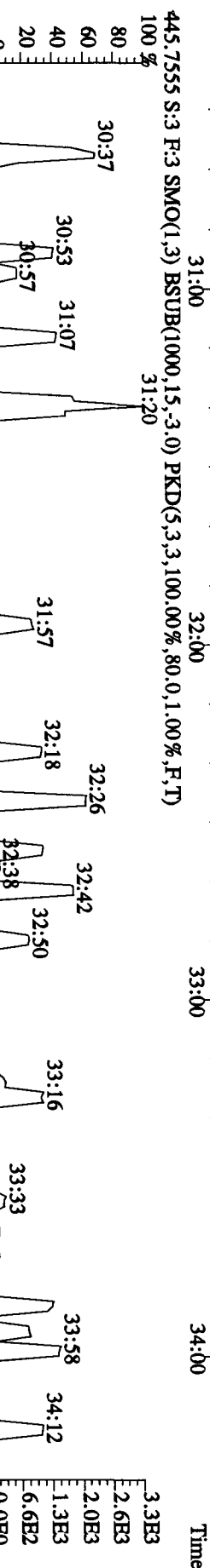
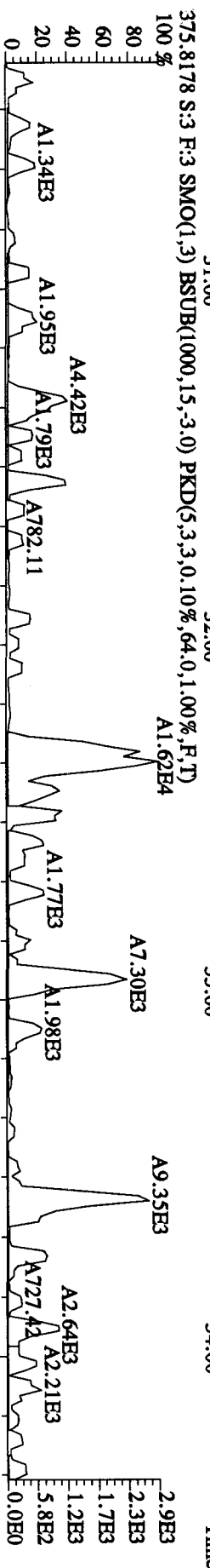
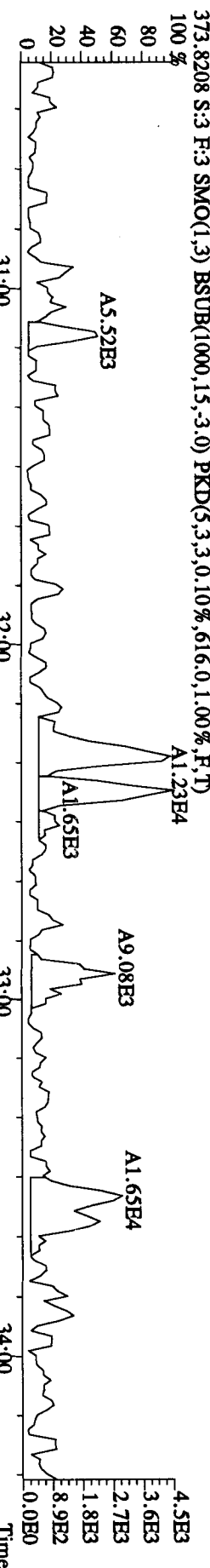
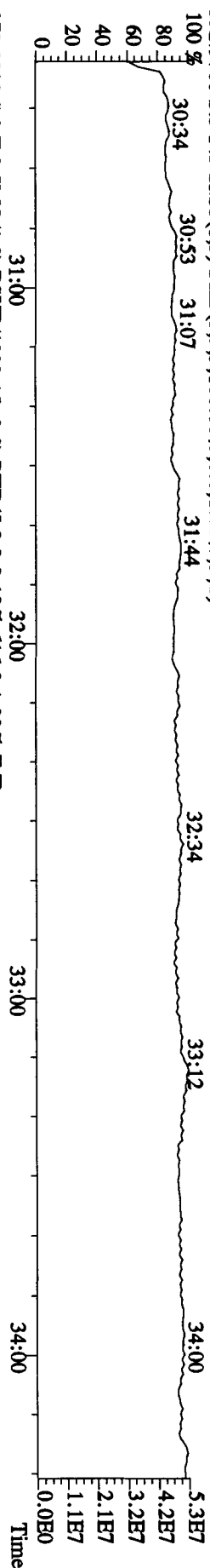
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1268.0,1.00%,F,T)



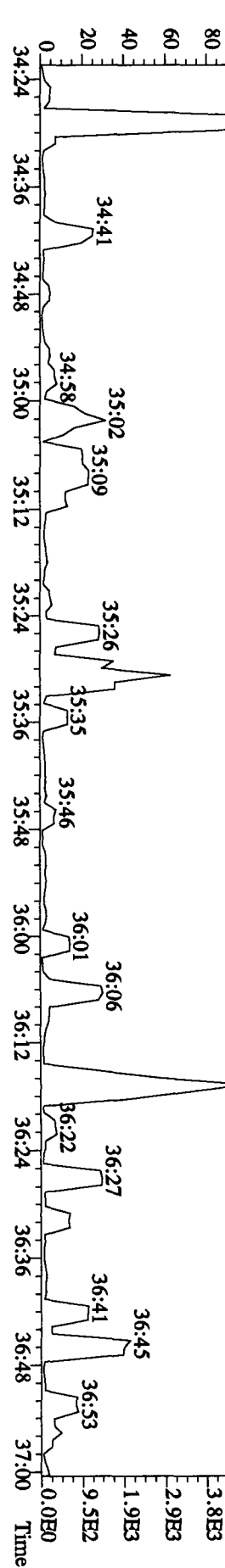
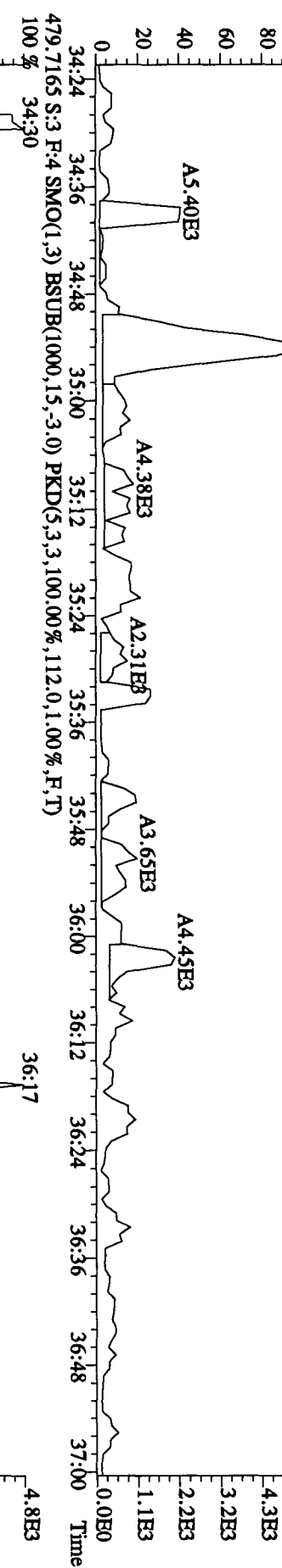
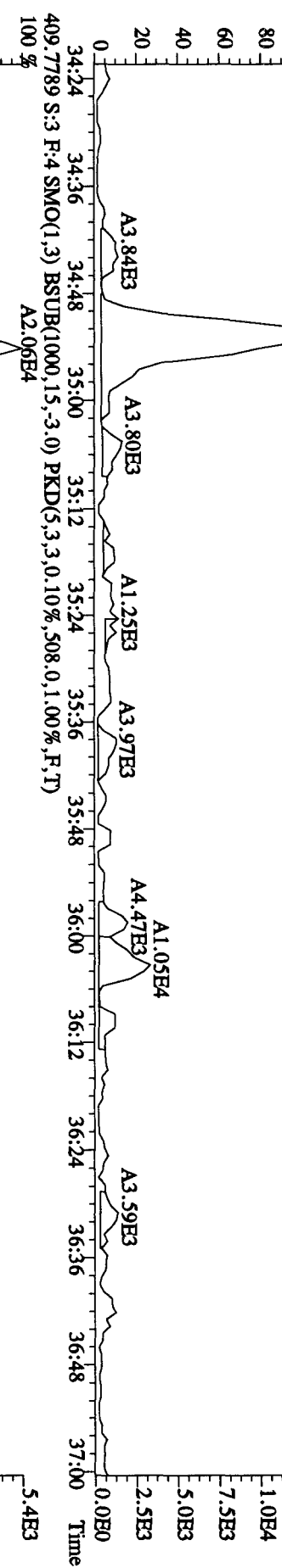
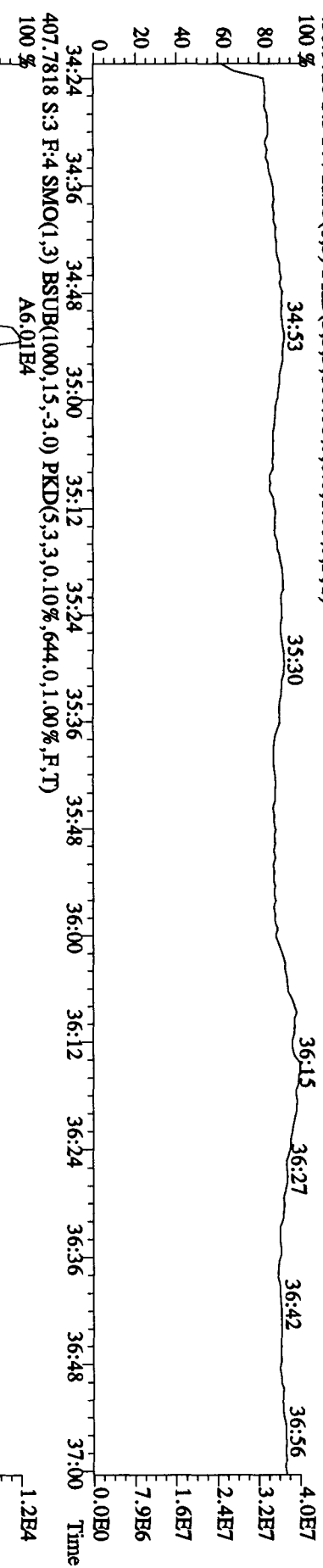
409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,76.0,1.00%,F,T)



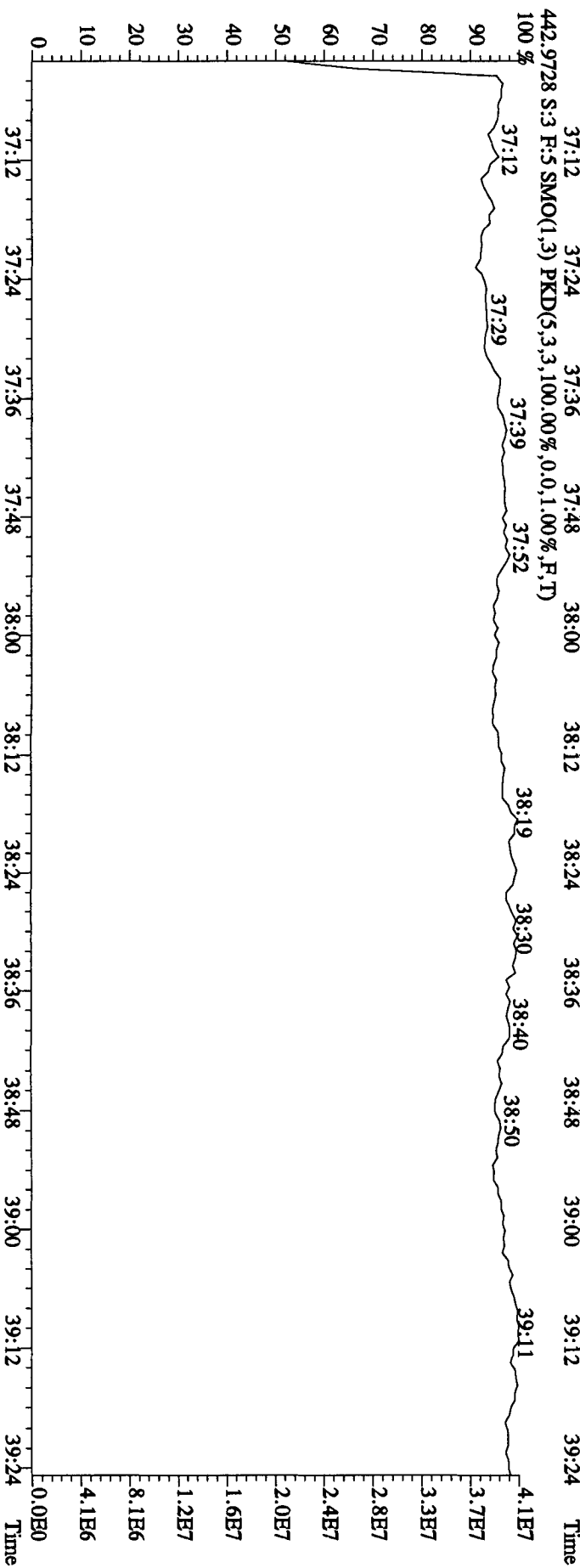
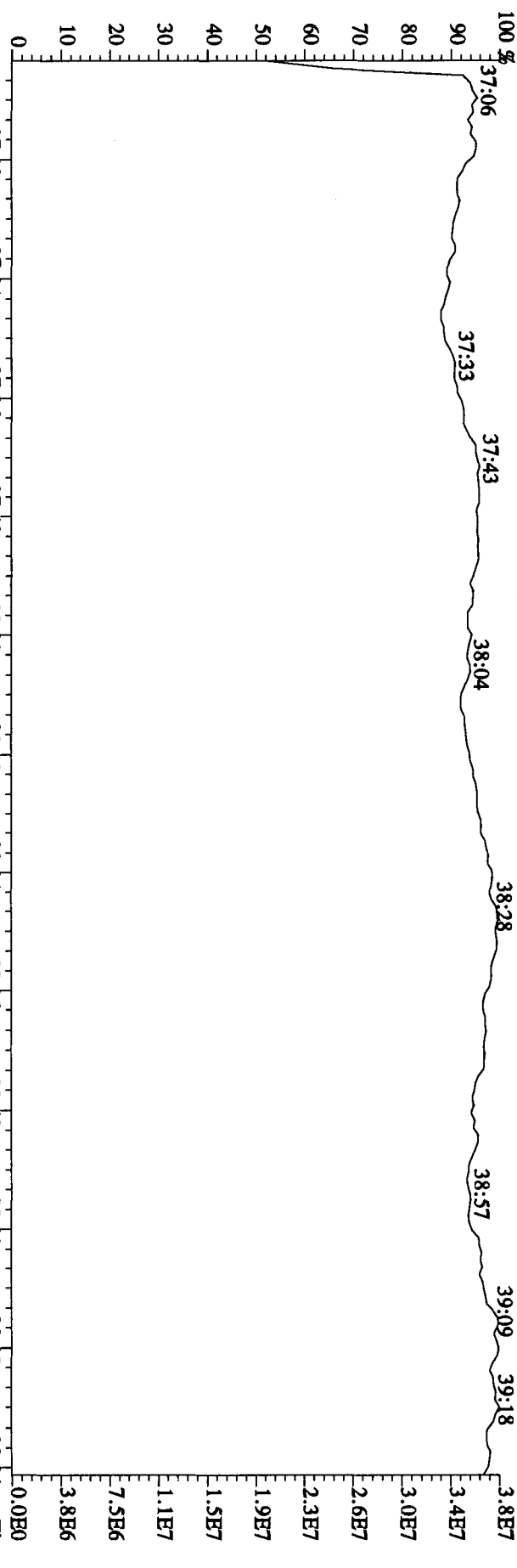
File:28OC104D5 #1-287 Acq:28-OCT-2010 11:06:06 GC EI + Voltage SIR Autospec-UtimaE
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 310:34 30:53 31:07 31:44 32:34 33:12 34:00



File: 280C104D5 #1-200 Acq: 28-OCT-2010 11:06:06 GC EI + Voltage SIR Autospec-UltimaE
 Sample#3 Text: L8V09-1-AA : G0J210484-11MB Exp: DIOXINRES
 430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:28OC104D5 #1-193 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



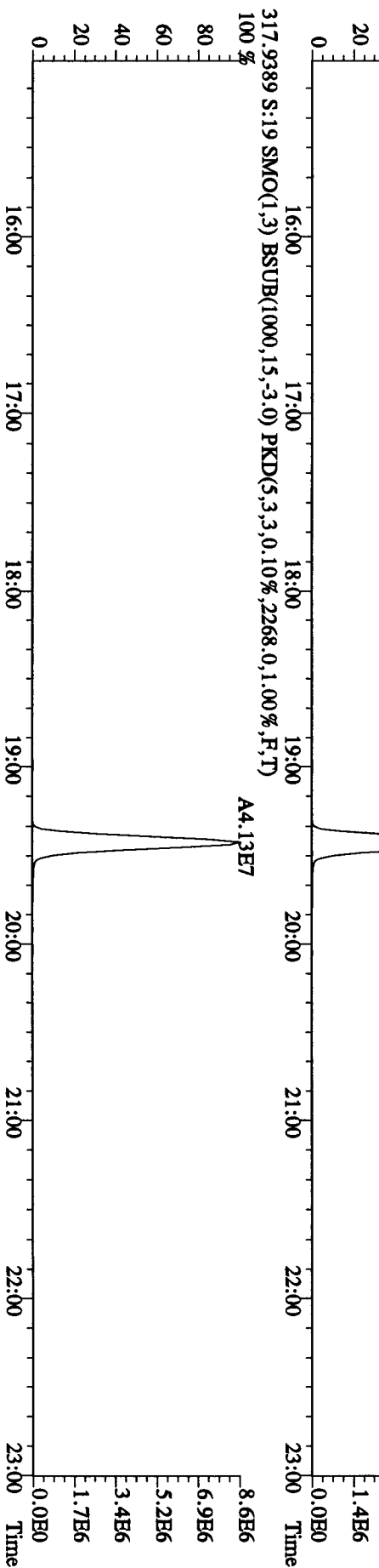
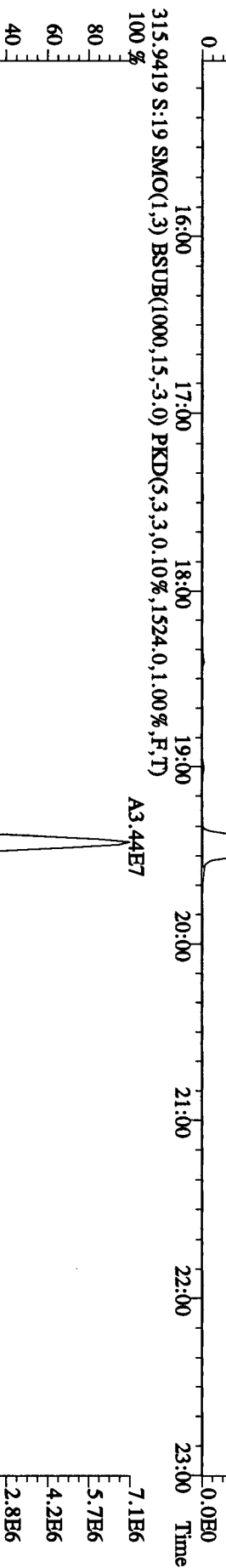
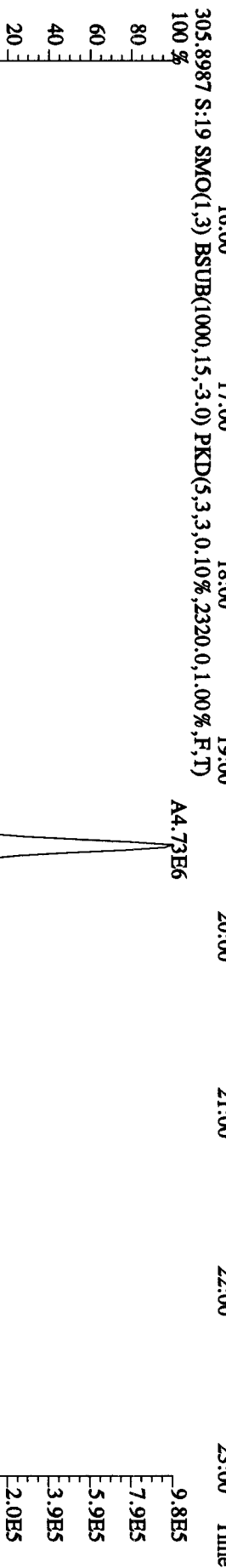
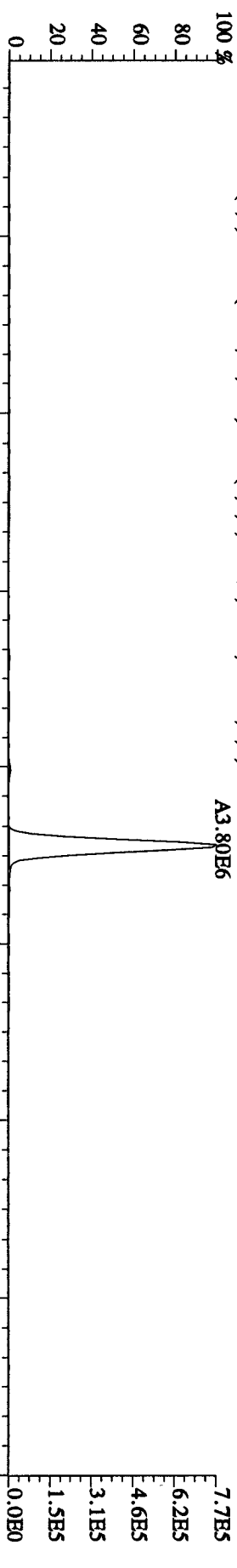
Run text: L8V09-1-AC Sample text: L8V09-1-AC :G0J210484-11LCS
 Run #7 Filename: 28OC104D5 S: 19 I: 1 Results: 28OC104D5TO9
 Acquired: 28-OCT-10 22:59:20 Processed: 29-OCT-10 08:54:30
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAMP

VAD10. 3.6

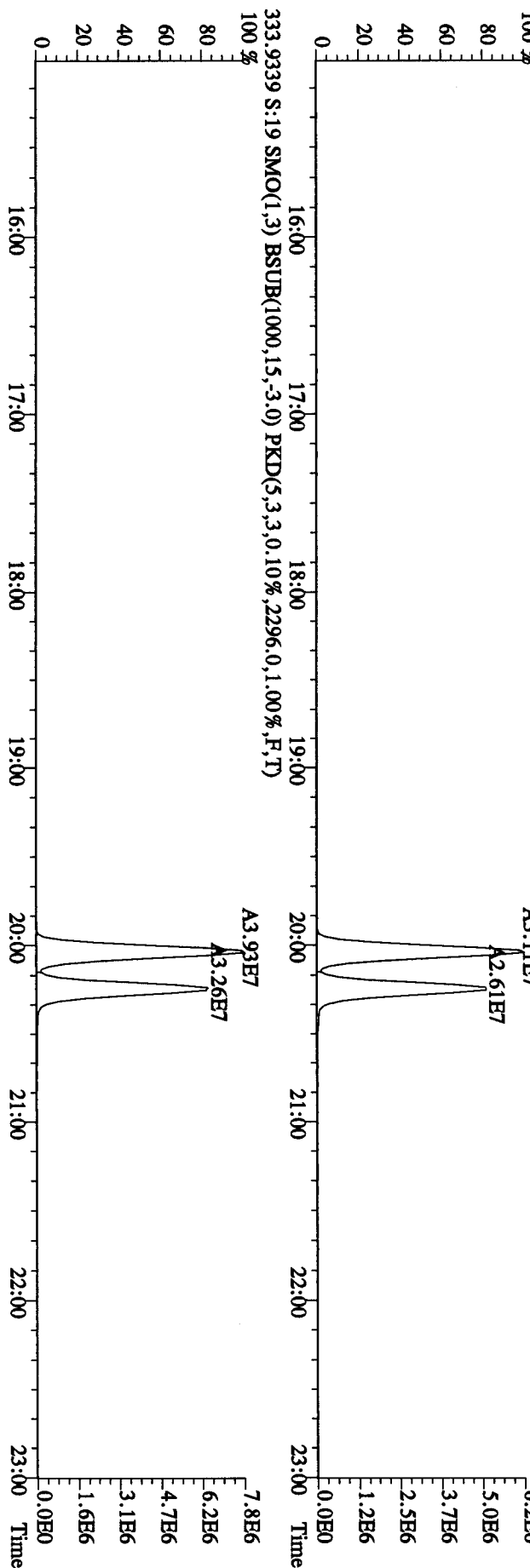
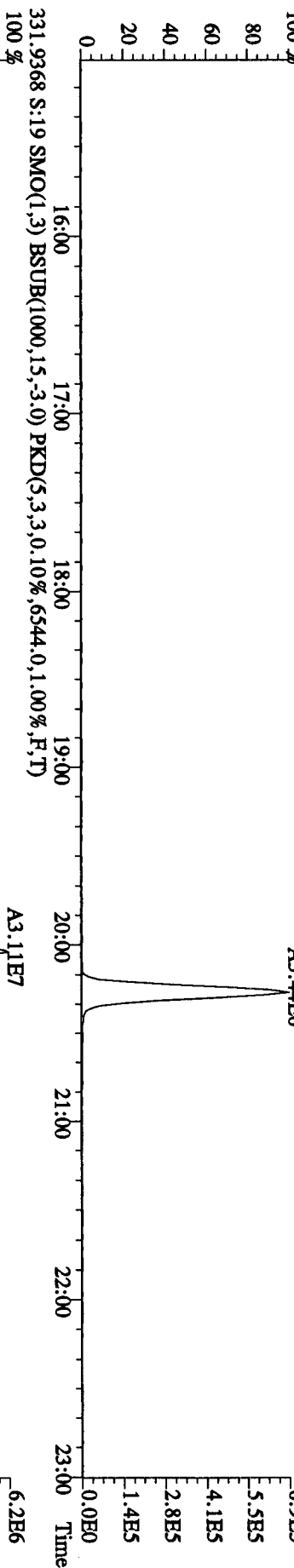
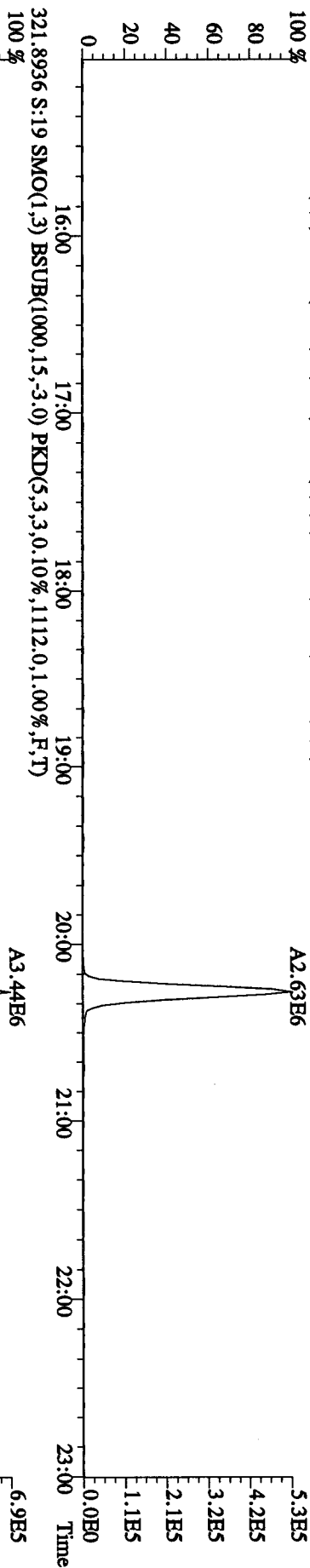
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	70326700	0.79 y	20:03	-	42.11	-	-	n
13C-2,3,7,8-TCDF	75677200	0.83 y	19:25	1.23	3501.32	2.65	87.5	n
2,3,7,8-TCDF	8527710	0.80 y	19:26	0.99	453.23	2.54	-	n
Total TCDF	8644768	0.49 n	18:24	0.99	459.45	2.54	-	n
13C-2,3,7,8-TCDD	58645200	0.80 y	20:15	0.91	3685.50	8.38	92.1	n
2,3,7,8-TCDD	6065660	0.77 y	20:16	0.98	420.67	1.67	-	n
Total TCDD	6150142	0.17 n	16:25	0.98	426.53	1.67	-	n
37Cl-2,3,7,8-TCDD	83855	1.00 y	20:17	1.33	4.31	0.29	0.3	n
13C-1,2,3,7,8-PeCDF	59368600	1.59 y	25:19	0.88	3854.50	2.90	96.4	n
1,2,3,7,8-PeCDF	35915300	1.57 y	25:21	1.08	2247.57	4.52	-	n
2,3,4,7,8-PeCDF	34687800	1.51 y	26:54	1.05	2235.22	4.66	-	n
Total F2 PeCDF	71537120	1.23 n	23:42	1.06	4542.09	4.59	-	n
Total F1 PeCDF	73900	0.98 n	16:08	1.06	<u>4.69</u>	1.80	-	n
13C-1,2,3,7,8-PeCDD	43256400	1.60 y	27:43	0.66	3723.09	3.29	93.1	n
1,2,3,7,8-PeCDD	23475950	1.48 y	27:45	0.93	2345.71	4.89	-	n
Total PeCDD	23475950	1.48 y	27:45	0.93	2345.71	4.89	-	n
13C-1,2,3,7,8,9-HxCDD	48123500	1.27 y	33:21	-	40.65	-	-	n
13C-1,2,3,4,7,8-HxCDF	42185100	0.51 y	32:16	1.04	3356.10	2.51	83.9	n
1,2,3,4,7,8-HxCDF	29638300	1.14 y	32:17	1.22	2308.76	4.53	-	n
1,2,3,6,7,8-HxCDF	34565600	1.16 y	32:24	1.28	2557.30	4.30	-	n
2,3,4,6,7,8-HxCDF	31033100	1.11 y	32:55	1.23	2385.70	4.47	-	n
1,2,3,7,8,9-HxCDF	26656300	1.14 y	33:32	1.10	2301.62	5.02	-	n
Total HxCDF	122129450	0.85 n	31:16	1.21	9571.92	4.56	-	n
13C-1,2,3,6,7,8-HxCDD	37139800	1.30 y	33:06	0.83	3715.79	0.64	92.9	n
1,2,3,4,7,8-HxCDD	20701860	1.41 y	33:03	1.04	2149.68	2.01	-	n
1,2,3,6,7,8-HxCDD	24204800	1.12 y	33:07	1.16	2241.92	1.79	-	n
1,2,3,7,8,9-HxCDD	25040700	1.25 y	33:22	1.18	2282.20	1.76	-	n
Total HxCDD	70414345	1.41 y	33:03	1.13	6718.41	1.85	-	n
13C-1,2,3,4,6,7,8-HpCDF	36069400	0.43 y	34:52	0.91	3294.50	14.90	82.4	n
1,2,3,4,6,7,8-HpCDF	28107900	1.04 y	34:52	1.35	2316.21	10.36	-	n
1,2,3,4,7,8,9-HpCDF	23506000	1.04 y	36:02	1.09	2383.99	12.75	-	n
Total HpCDF	51613900	1.04 y	34:52	1.22	4700.20	11.43	-	n
13C-1,2,3,4,6,7,8-HpCDD	36516300	1.05 y	35:42	0.83	3671.90	10.00	91.8	n
1,2,3,4,6,7,8-HpCDD	20585300	1.03 y	35:42	1.07	2104.06	5.63	-	n
Total HpCDD	20909976	1.05 y	35:08	1.07	2137.25	5.63	-	n
13C-OCDD	50340300	0.85 y	38:15	0.62	6749.91	24.60	84.4	n

OCDF	38582000	0.88 y	38:23	1.37	4474.50	6.26	-	n
OCDD	32453100	0.91 y	38:15	1.20	4300.27	8.94	-	n

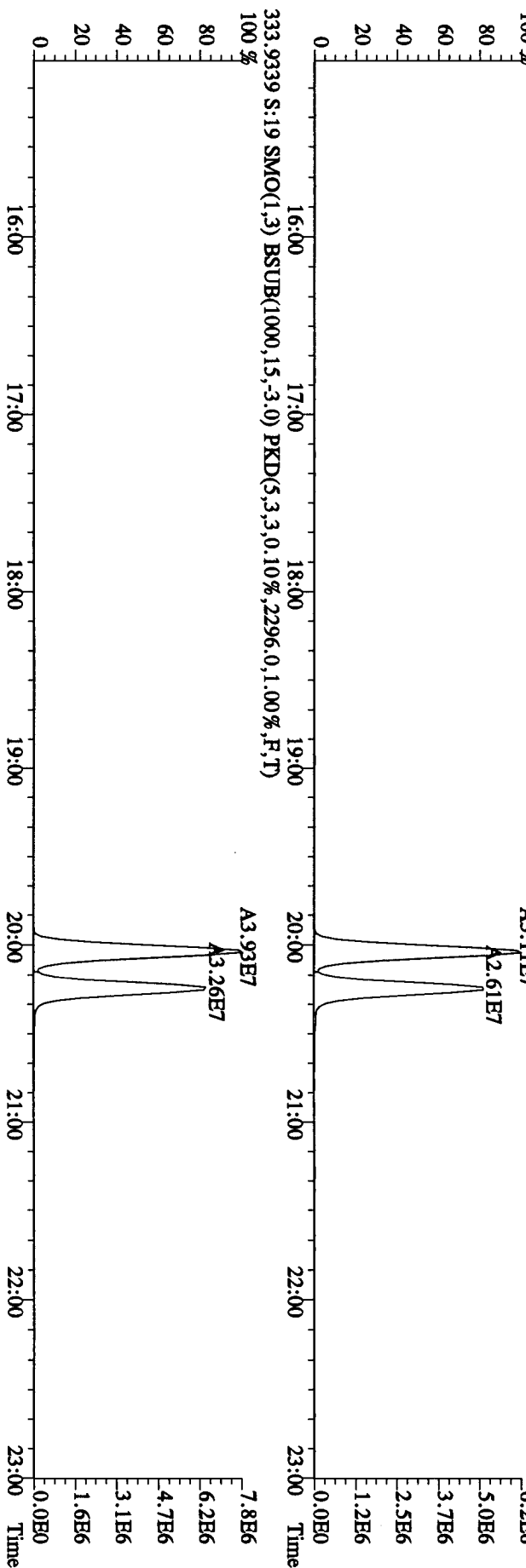
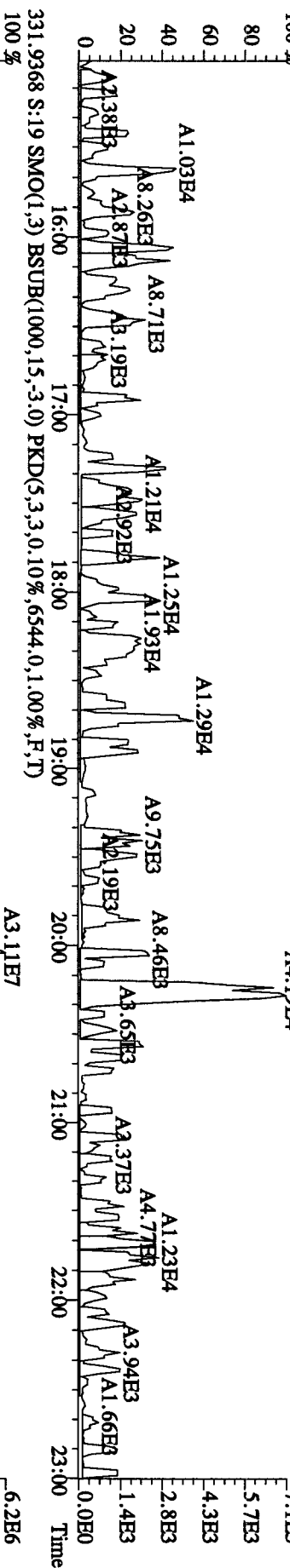
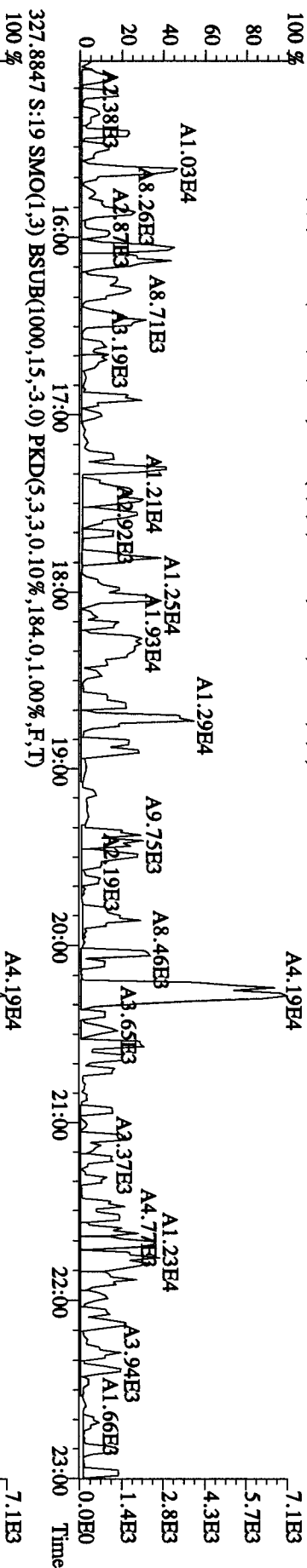
File:28OC104D5 #1-530 Acq:28-OCT-2010 22:59:20 GC EI + Voltage SIR Autospec-UltimaE
Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,980.0,1.00%,F,T)



File:280C104D5 #1-530 Acq:28-OCT-2010 22:59:20 GC EI + Voltage SIR Autospec-UltimaE
Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES
319.8965 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,456.0,1.00%,F,T)

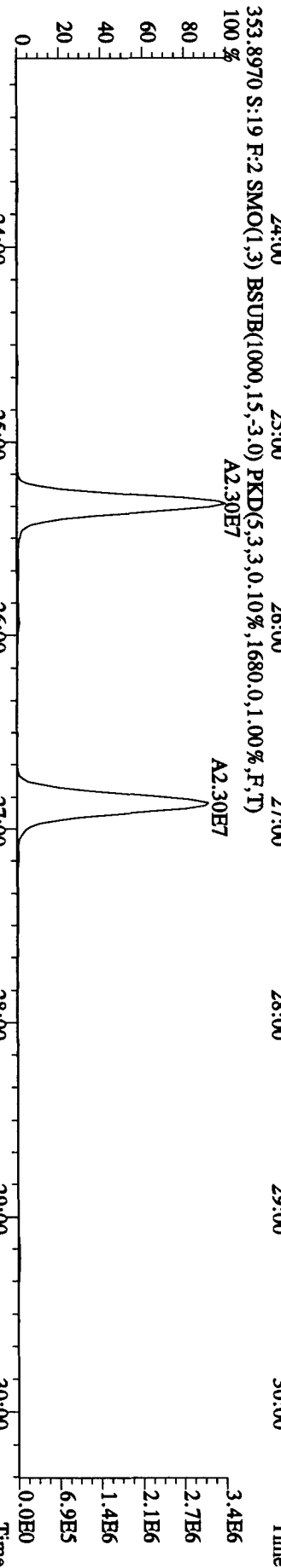
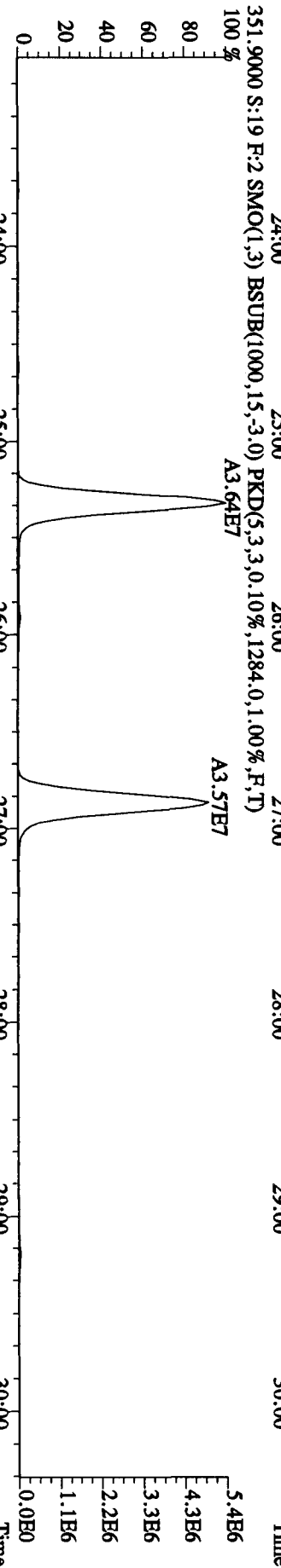
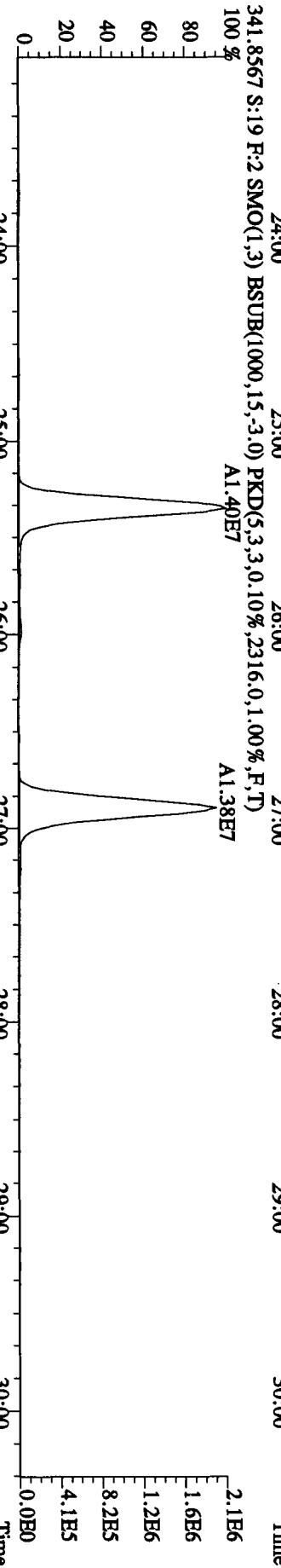
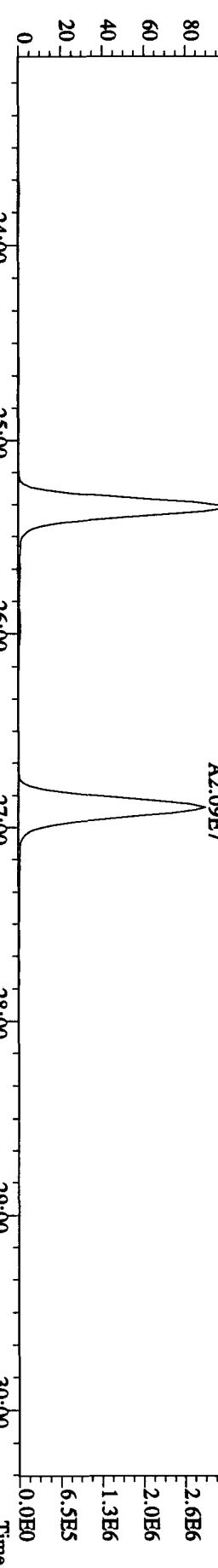


File: 28OC104D5 #1-530 Acq: 28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#19 Text: L8V09-1-AC : G0J210484-11LCS Exp: DIOXINRES
 327.8847 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,184.0,1.00%,F,T)

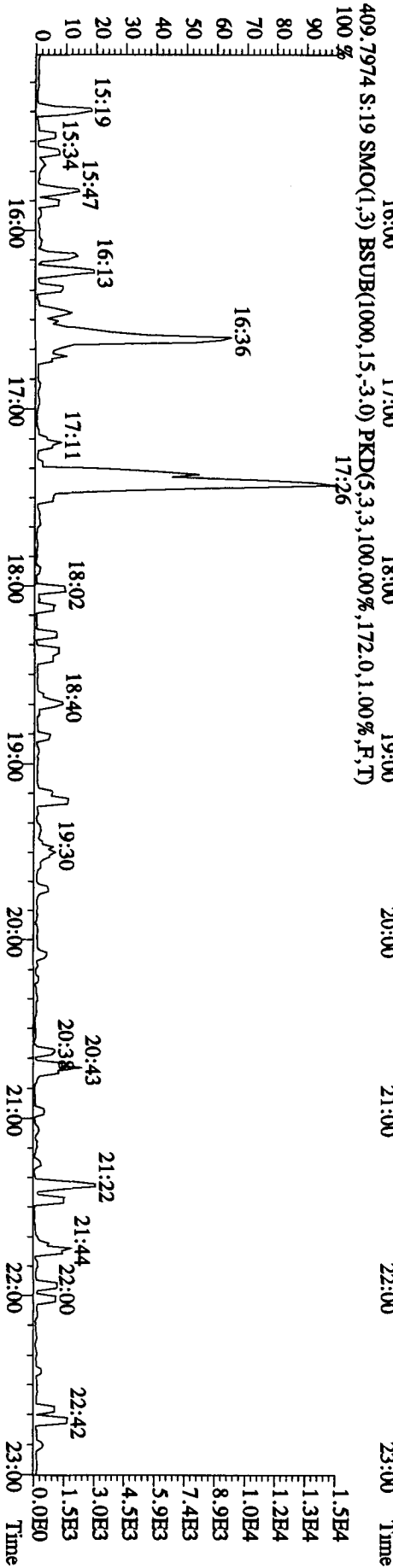
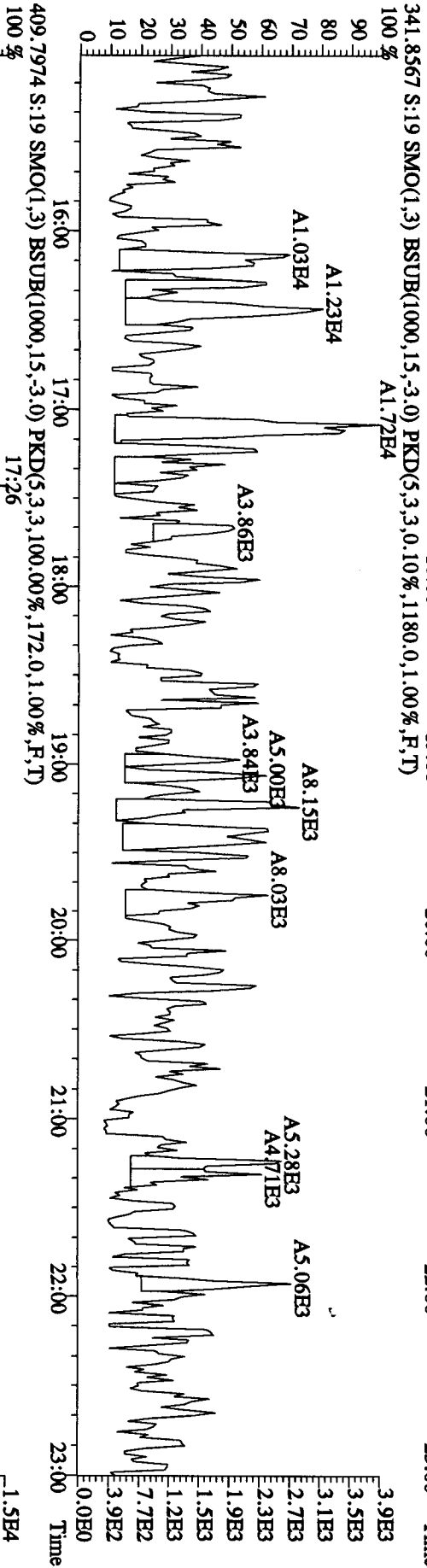
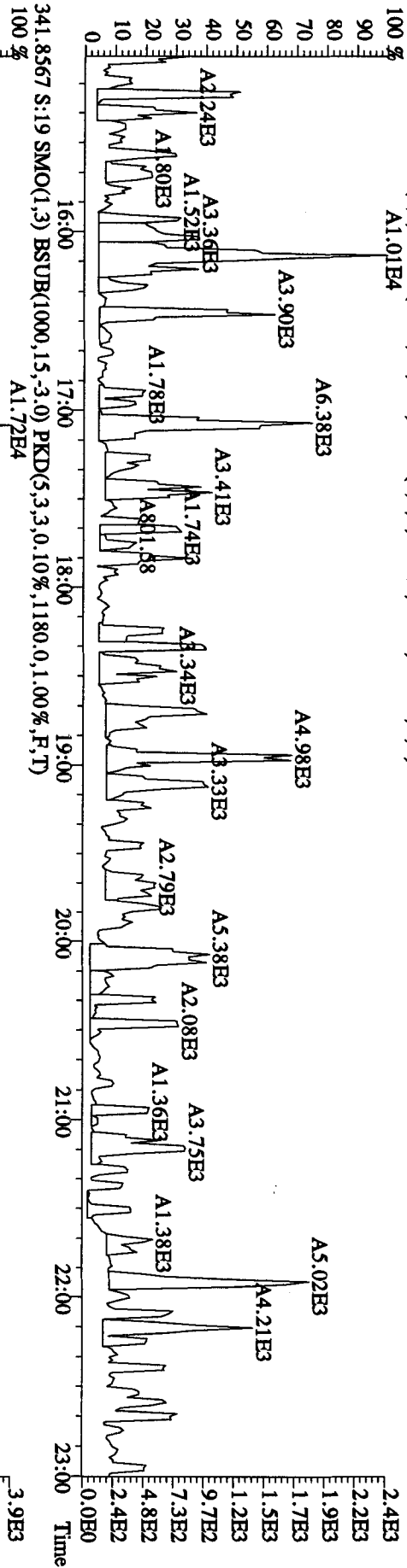


File:28OC104D5 #1-470 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-Ultimate

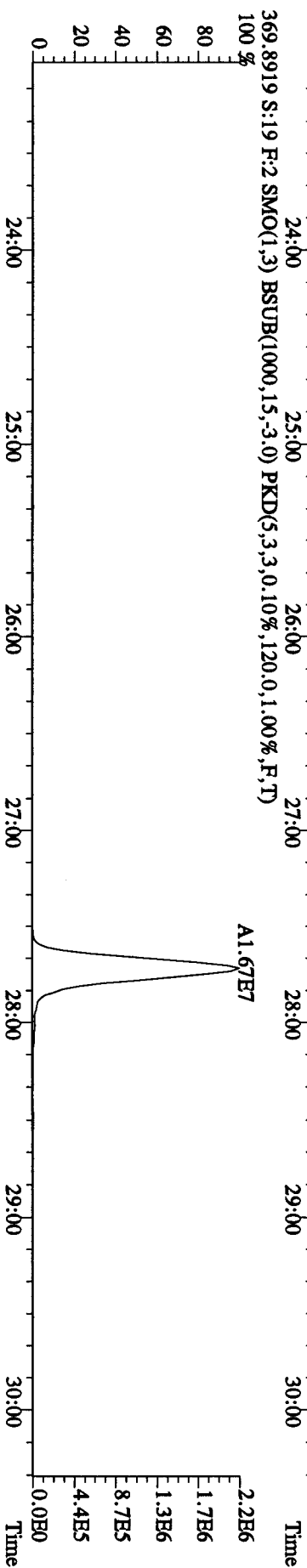
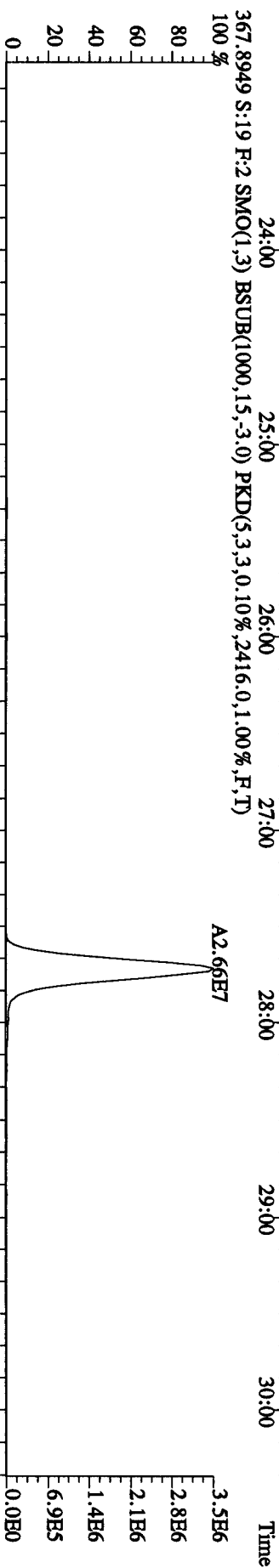
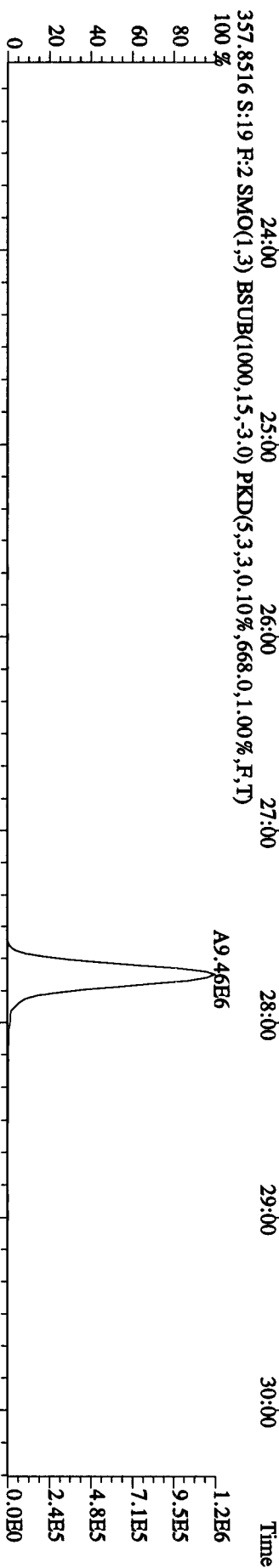
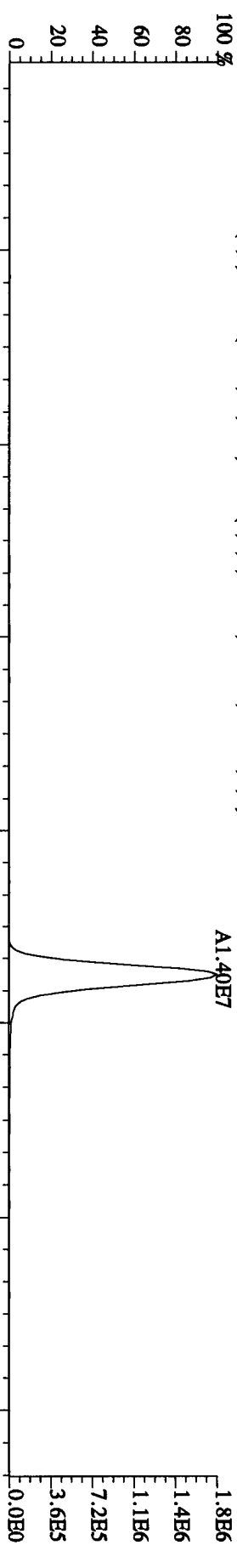
Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES



File:280C104D5 #1-530 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES
 339.8597 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,228.0,1.00%,F,T)
 100% A1.01E4



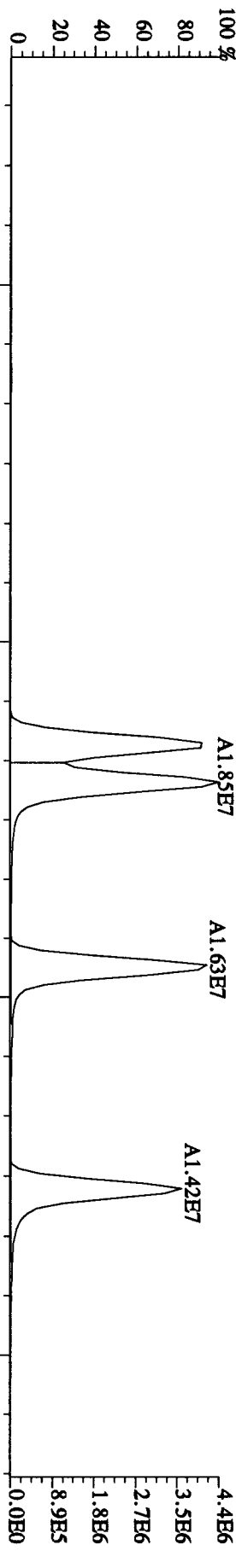
File:28OC104D5 #1-470 Acq:28-OCT-2010 22:59:20 GC EI + Voltage SIR Autospec-UltimaE
 Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp.:DIOXINRES
 355.8546 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1456,0,1.00%,F,T)



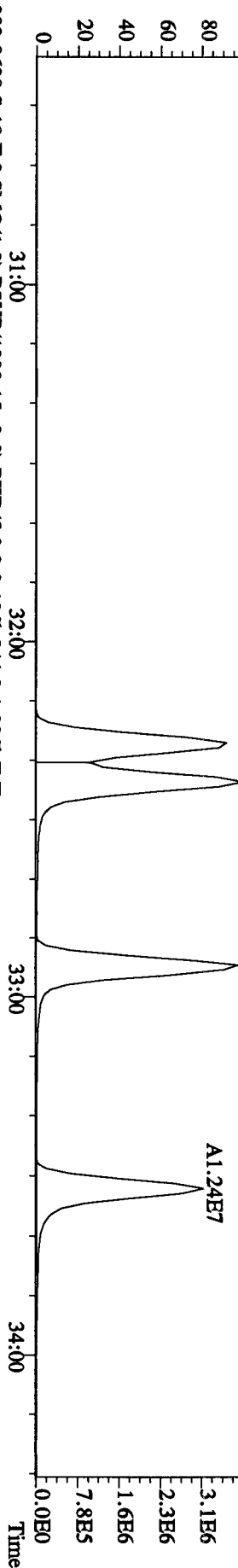
File:280C104D5 #1-287 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaE

Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES

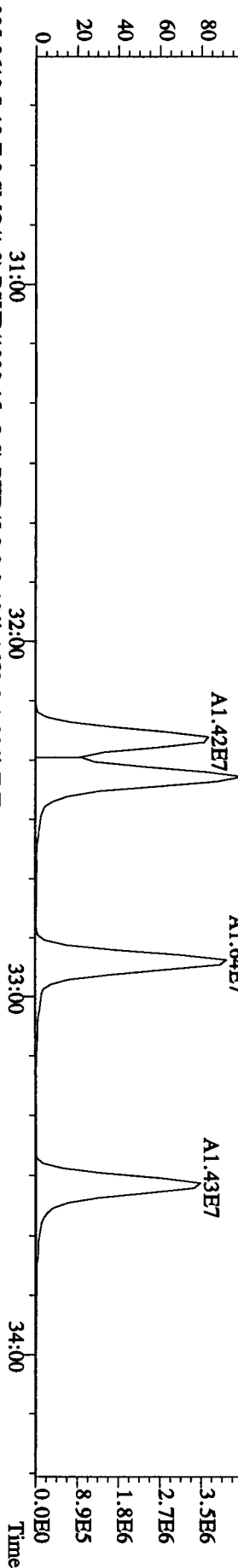
373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4932.0,1.00%,F,T)



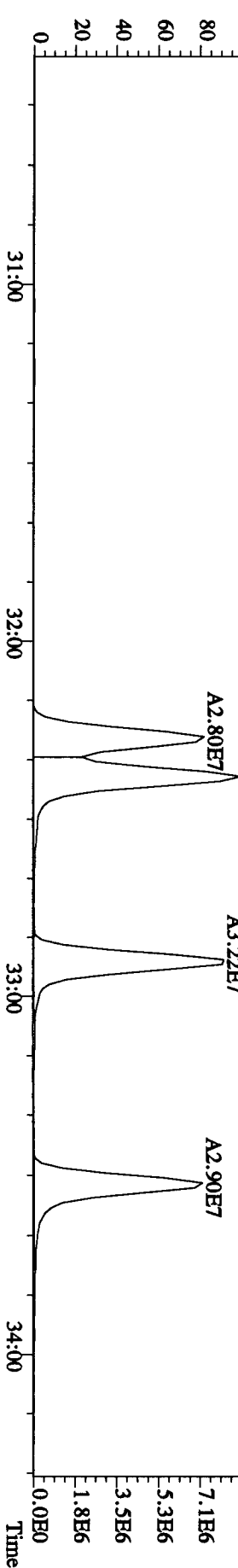
375.8178 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



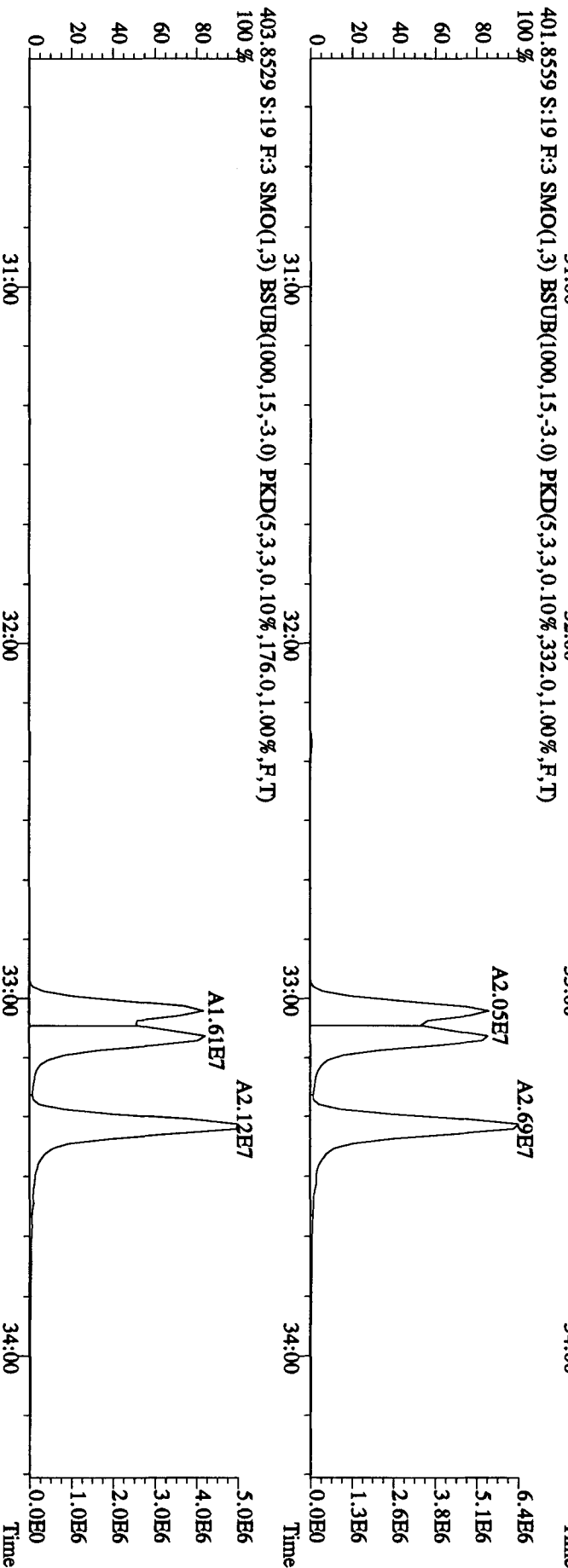
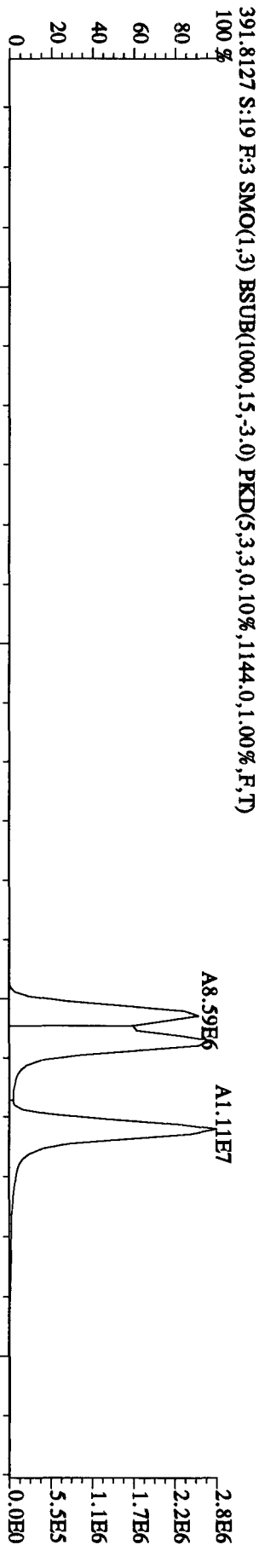
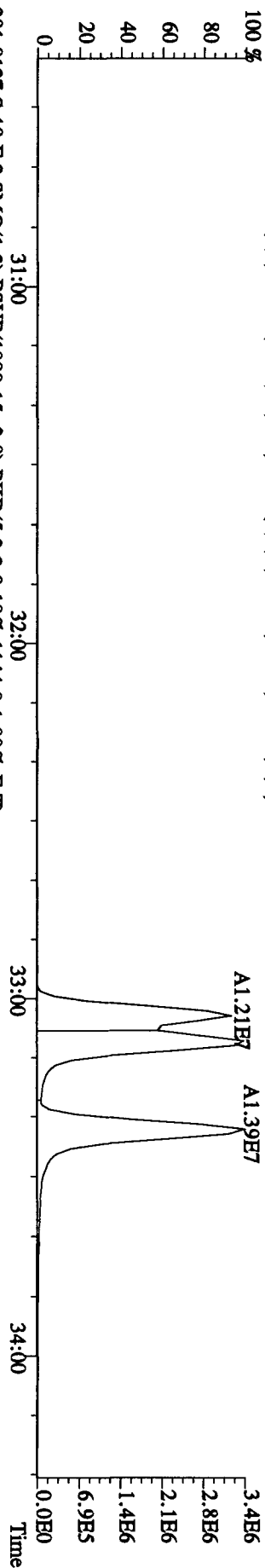
383.8639 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,844.0,1.00%,F,T)



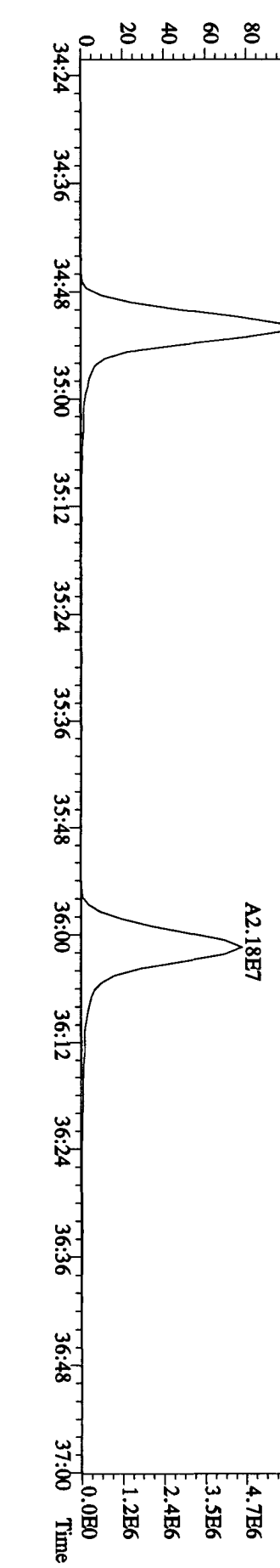
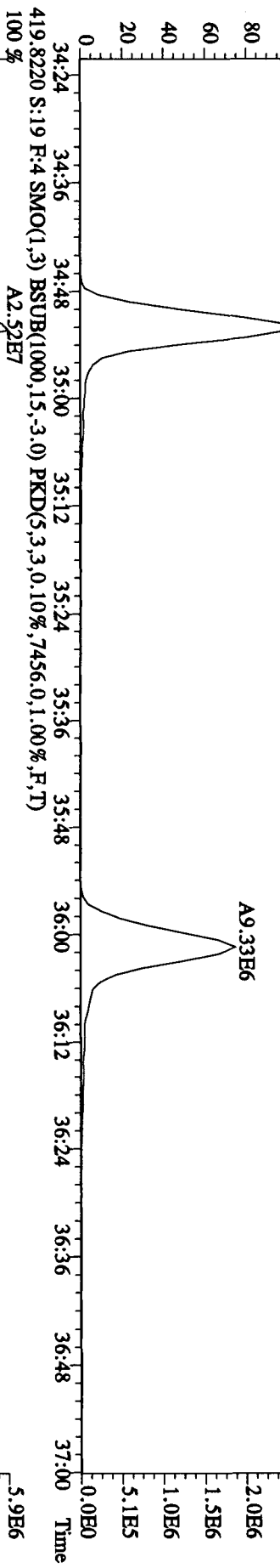
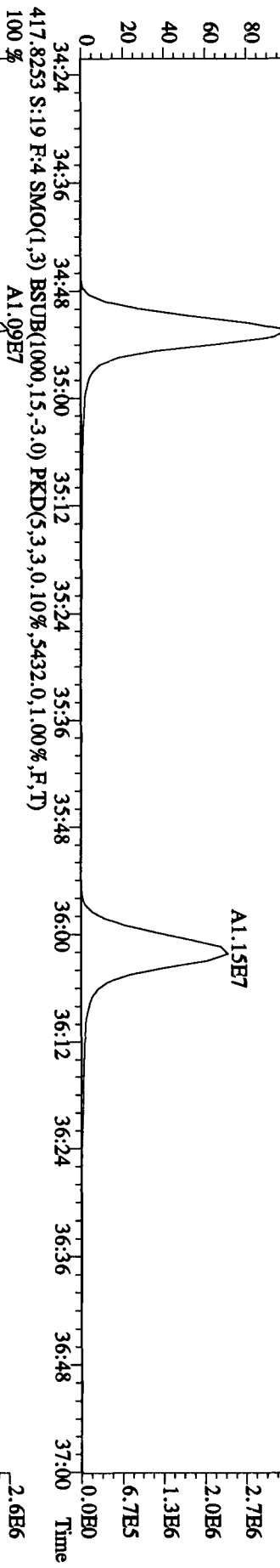
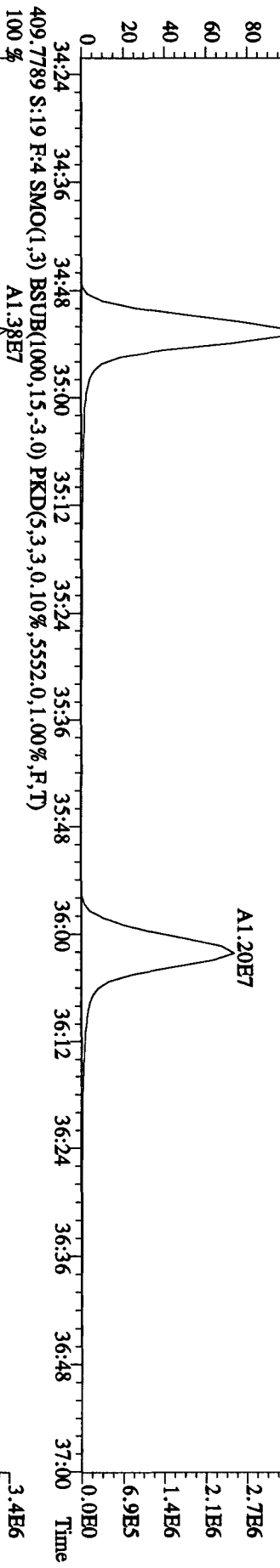
385.8610 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1652.0,1.00%,F,T)



File: 280C104D5 #1-287 Acq: 28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#19 Text: L8V09-1-AC : G0J210484-11LCS Exp: DIOXINRES
 389.8157 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,540.0,1.00%,F,T)



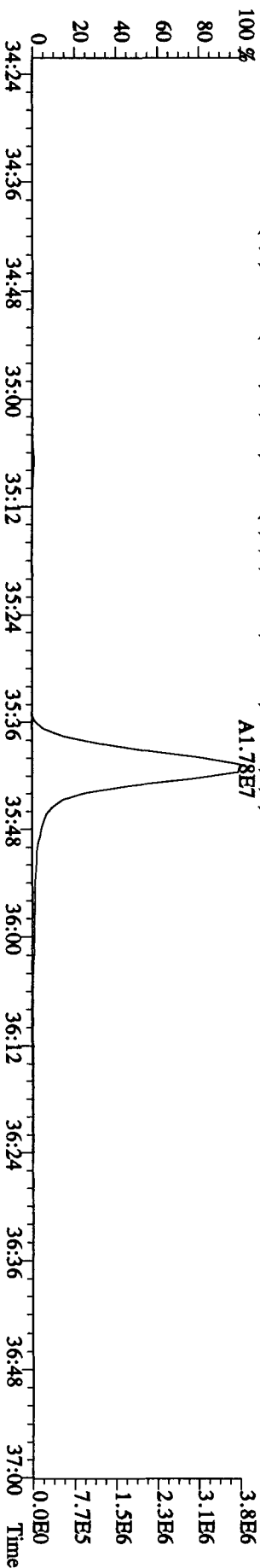
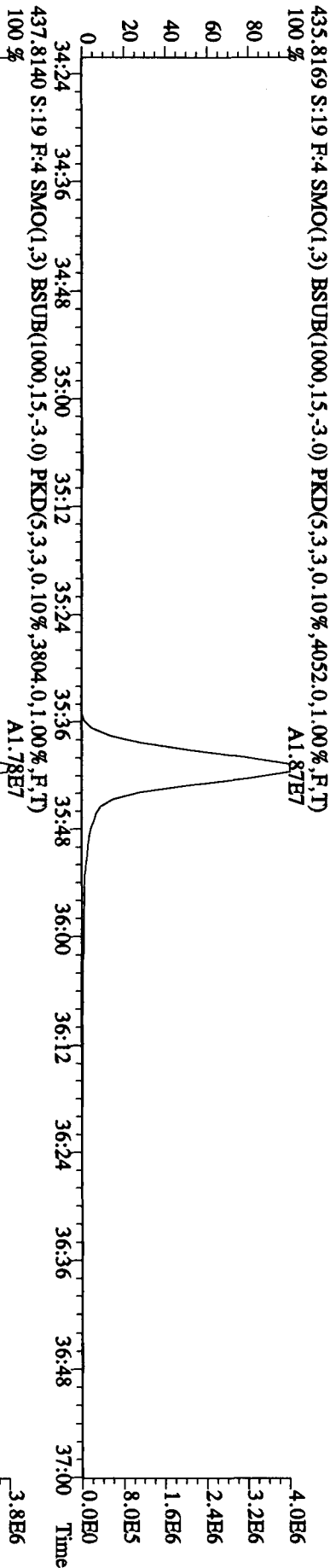
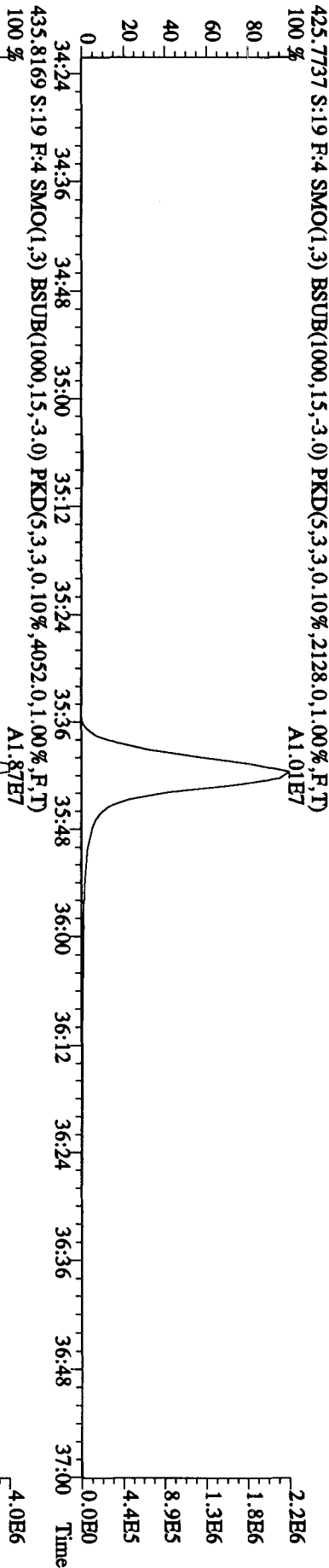
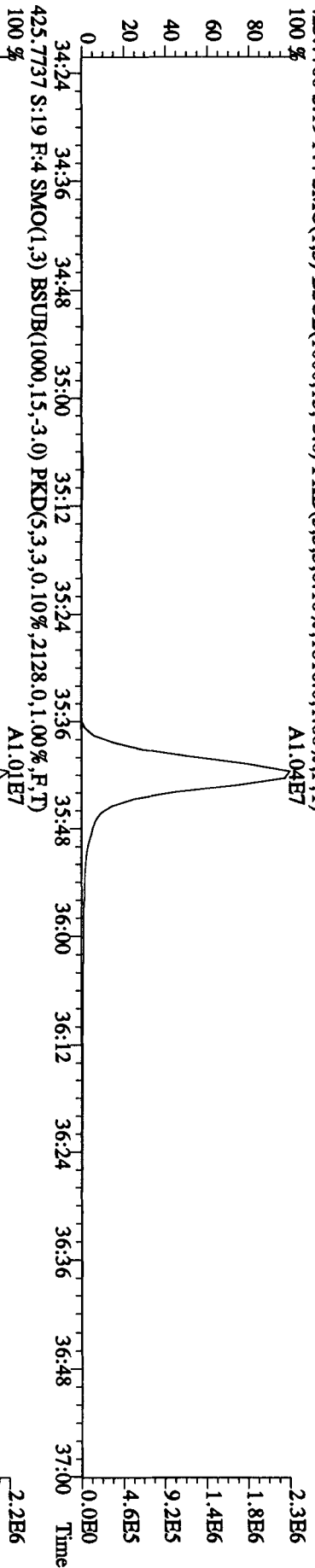
File:280C104D5 #1-200 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#19 Text:L8V09-1-AC :G01210484-11LCS Exp:DIOXINRES
 407.7818 S:19 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4300,0,1,00%,F,T)
 100%



File: 280C104D5 #1-200 Acq: 28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB

Sample#19 Text: L8V09-1-AC :G0J210484-11LCS Exp: DIOXINRES

422.7766 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1816,0,1.00%,F,T) 100%

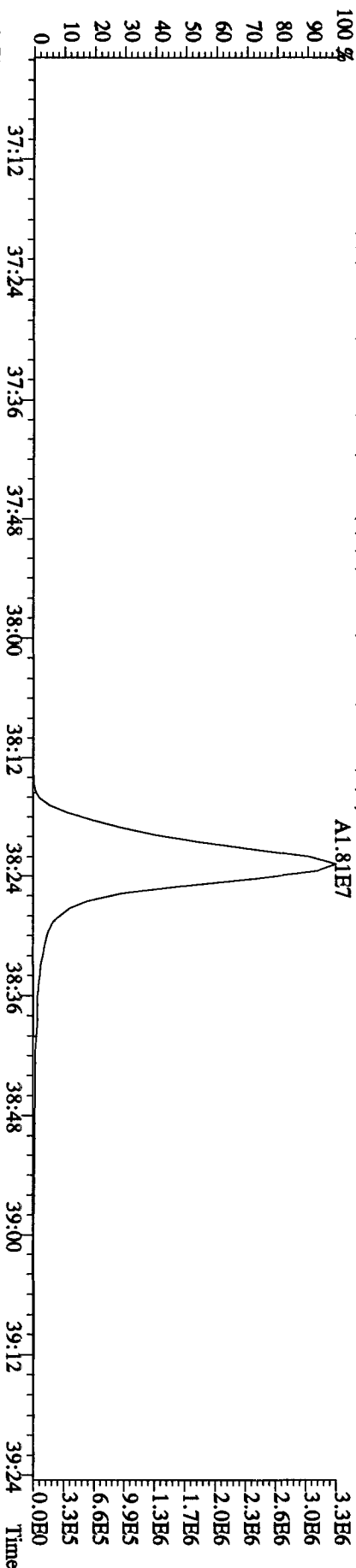


File:28OC104D5 #1-193 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-Ultimate

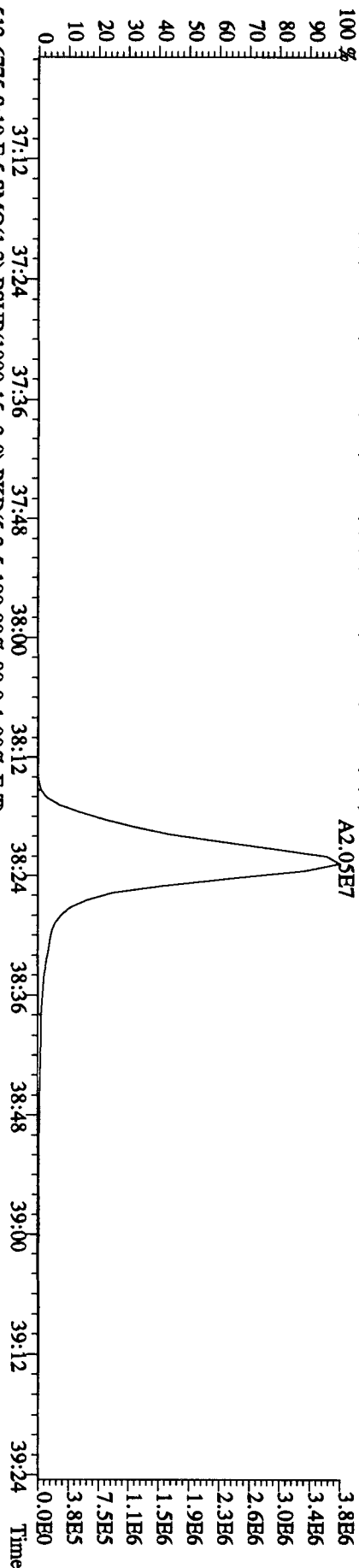
Sample#19 Text:L8V09-1-AC :G0J210484-1ILCS

Exp:DIOXINRES

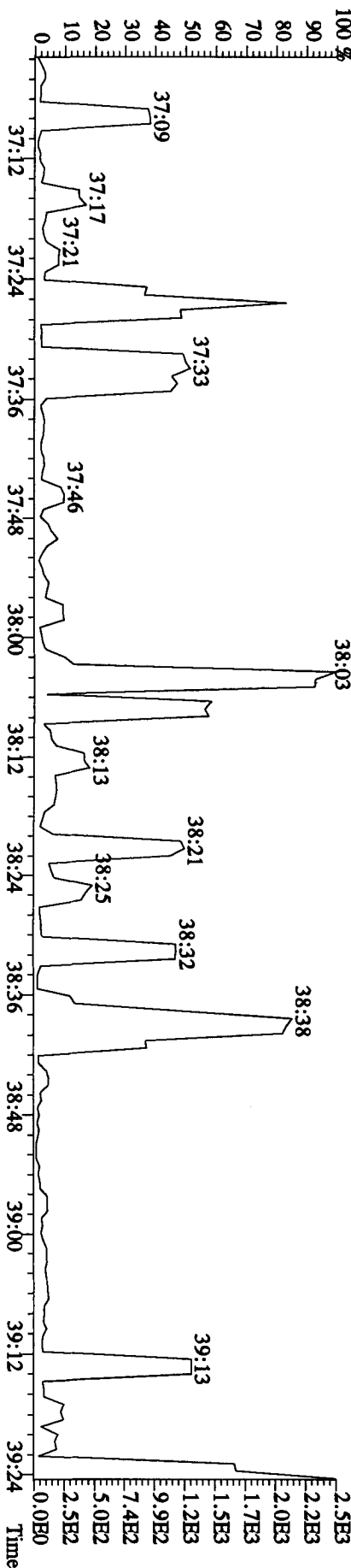
441.7428 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128,0.1,0.00%,F,T)



443.7399 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1028,0.1,0.00%,F,T)



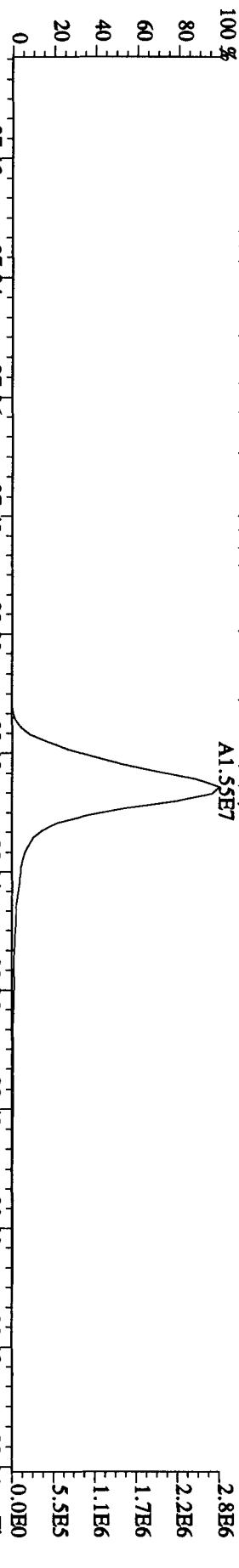
513.6775 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,80.0,1.00%,F,T)



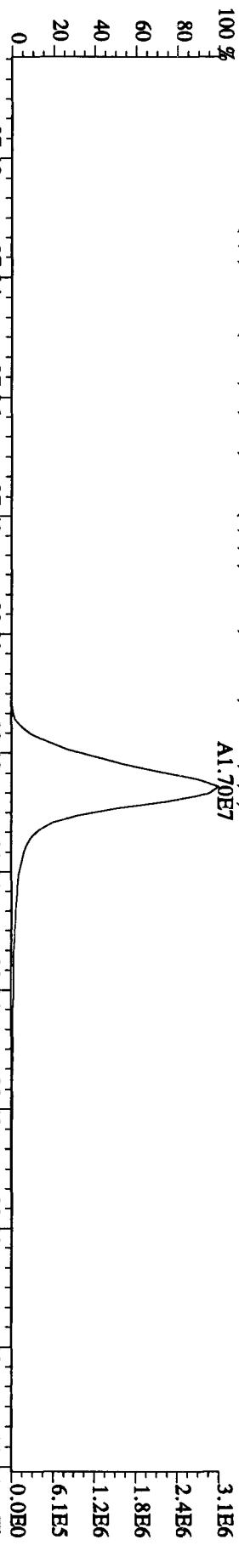
File:28OC104D5 #1-193 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB

Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES

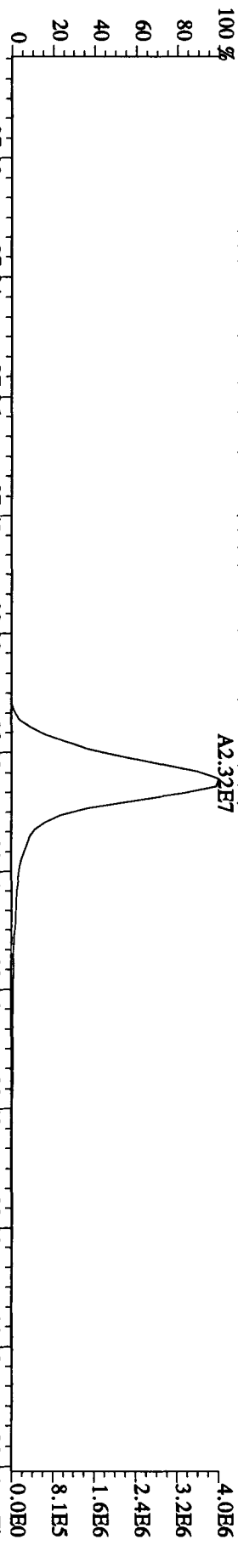
457.7377 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2296,0.1,0.00%,F,T) 100% A1.55E7



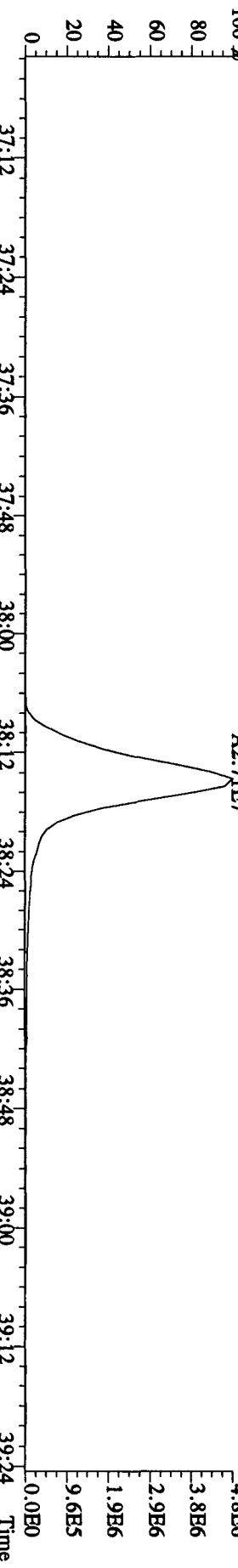
459.7348 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648,0.1,0.00%,F,T) 100% A1.70E7



469.7779 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9352,0.1,0.00%,F,T) 100% A2.32E7



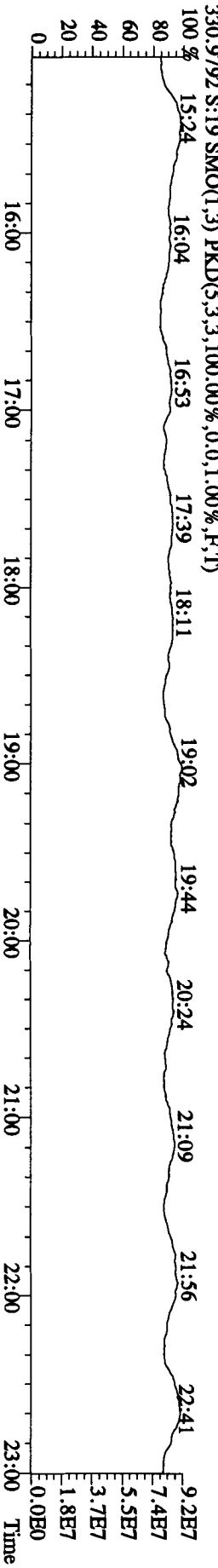
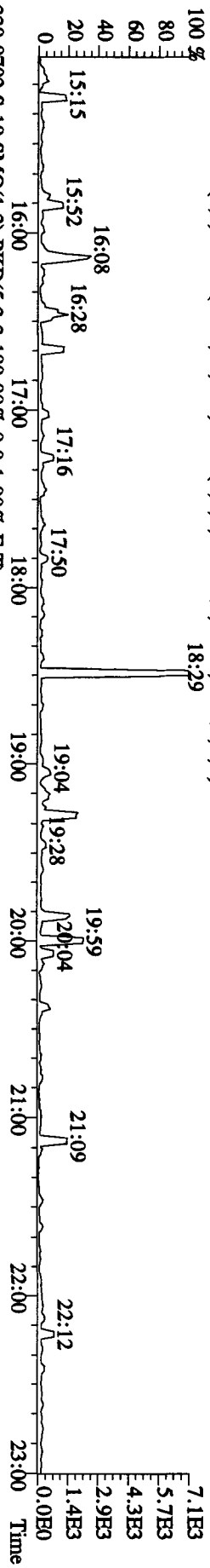
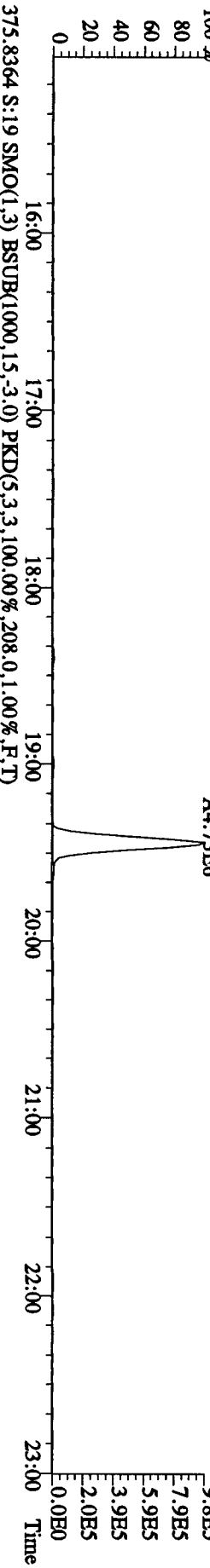
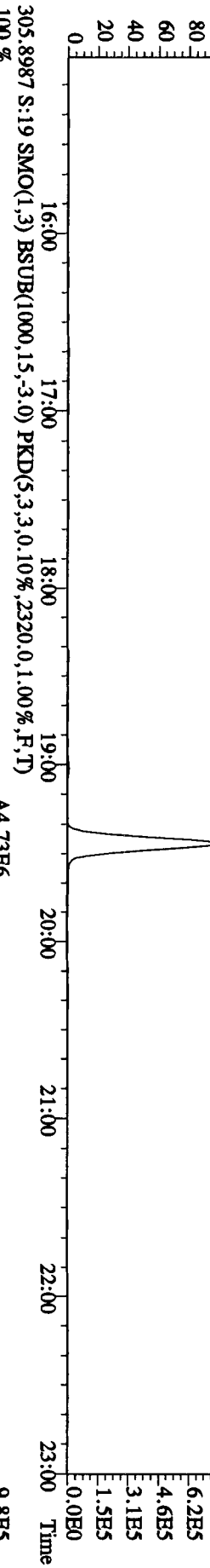
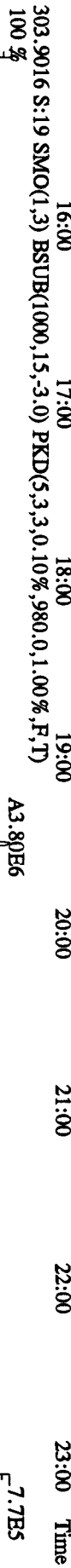
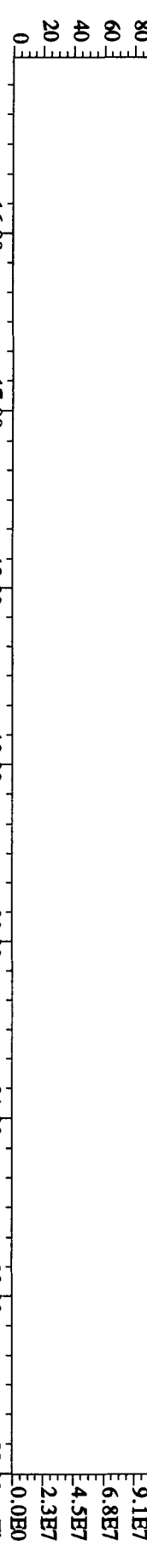
471.7750 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5140,0.1,0.00%,F,T) 100% A2.71E7

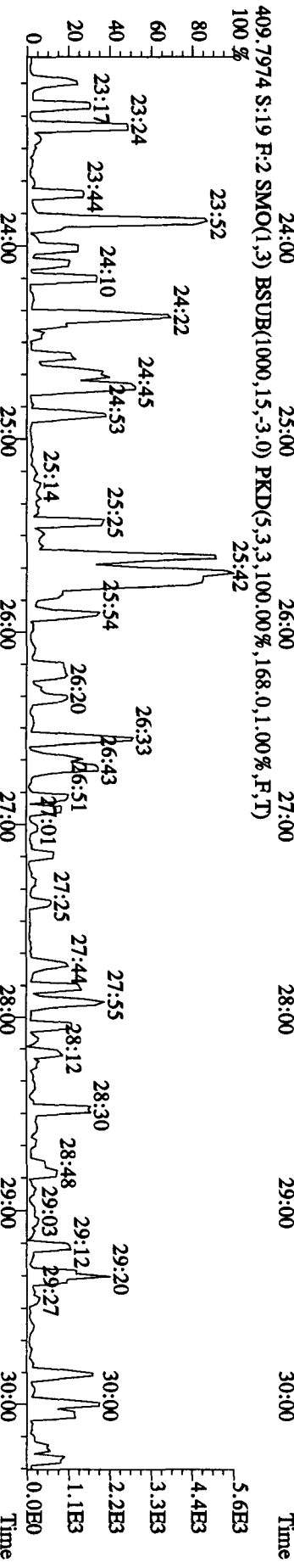
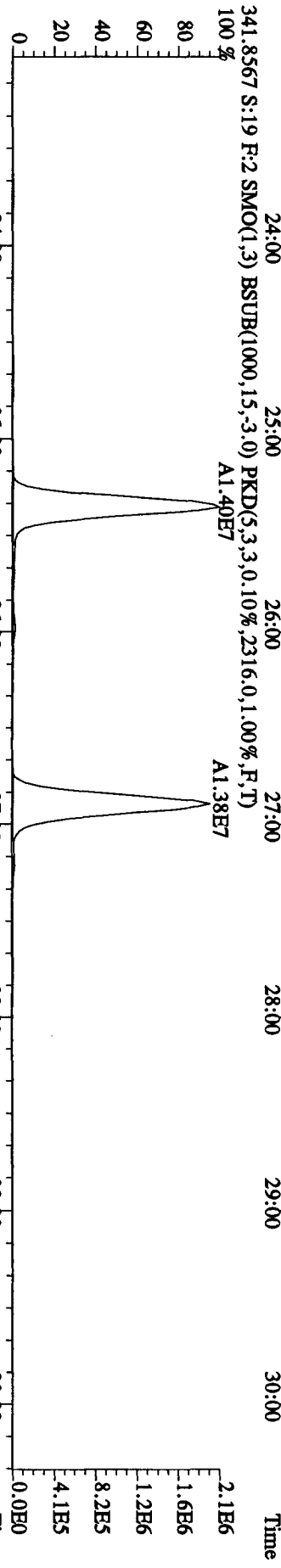
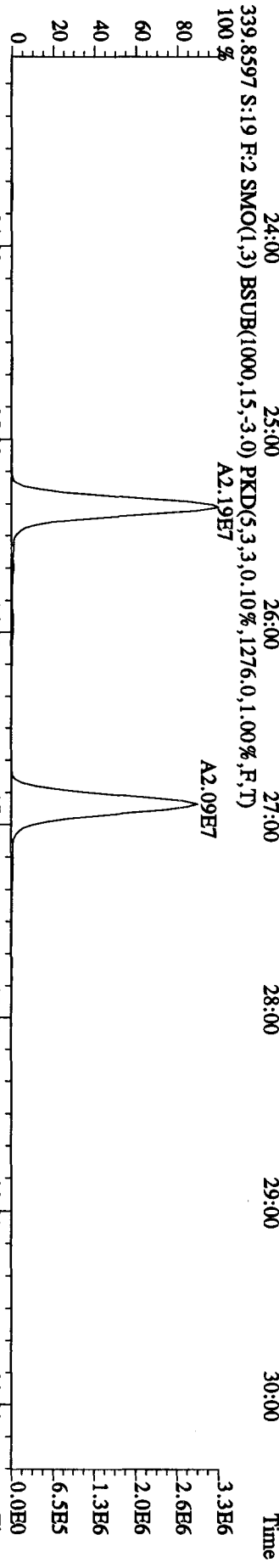
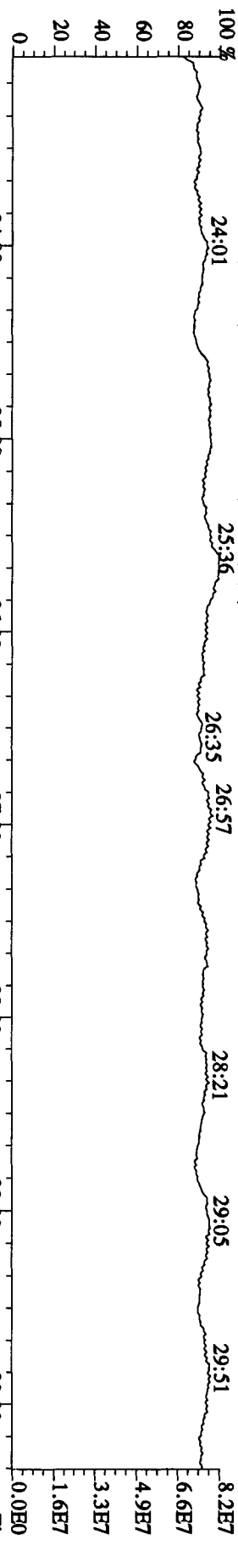


File:28OC104D5 #1-530 Acq:28-OCT-2010 22:59:20 GC EI + Voltage SIR Autospec-UltimaE

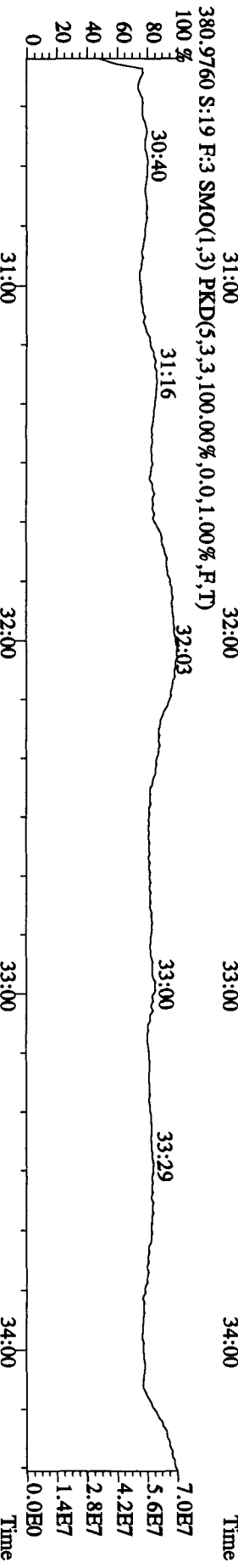
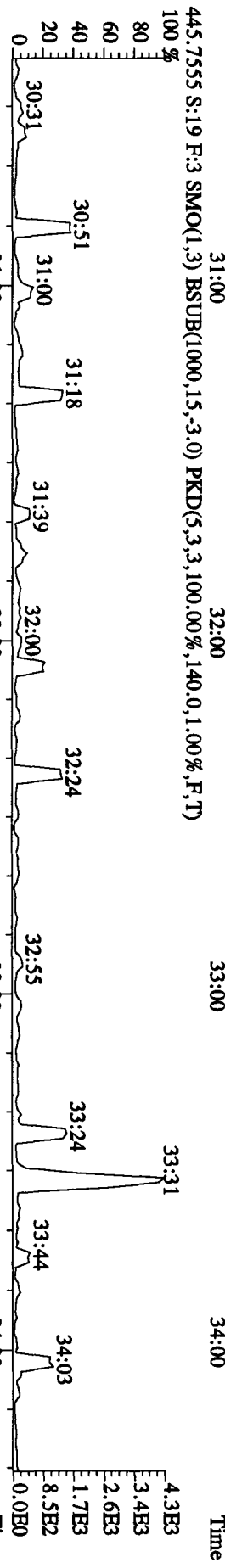
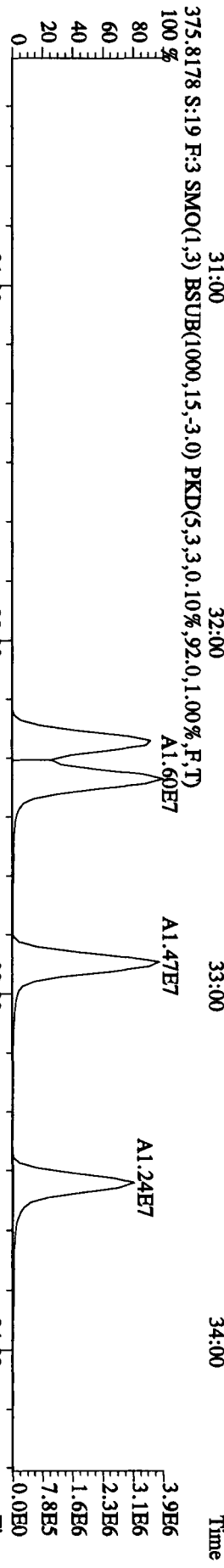
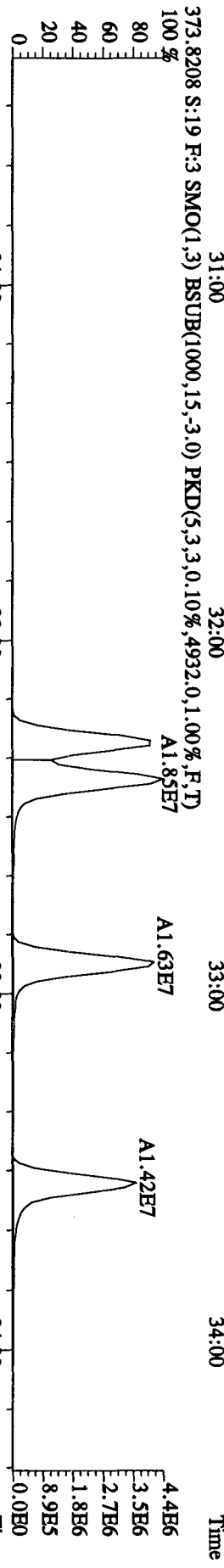
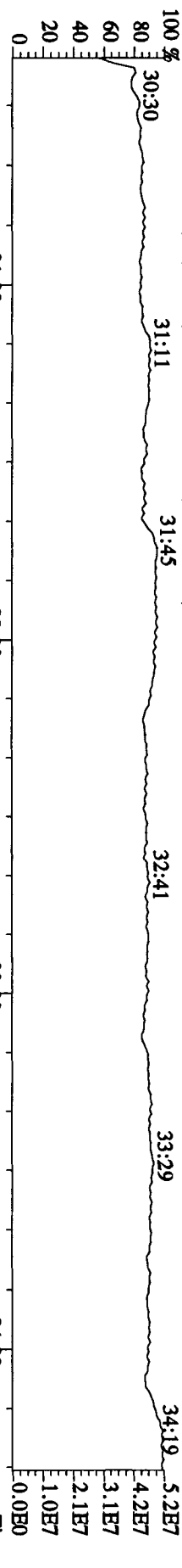
Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES

292.9825 S:19 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)

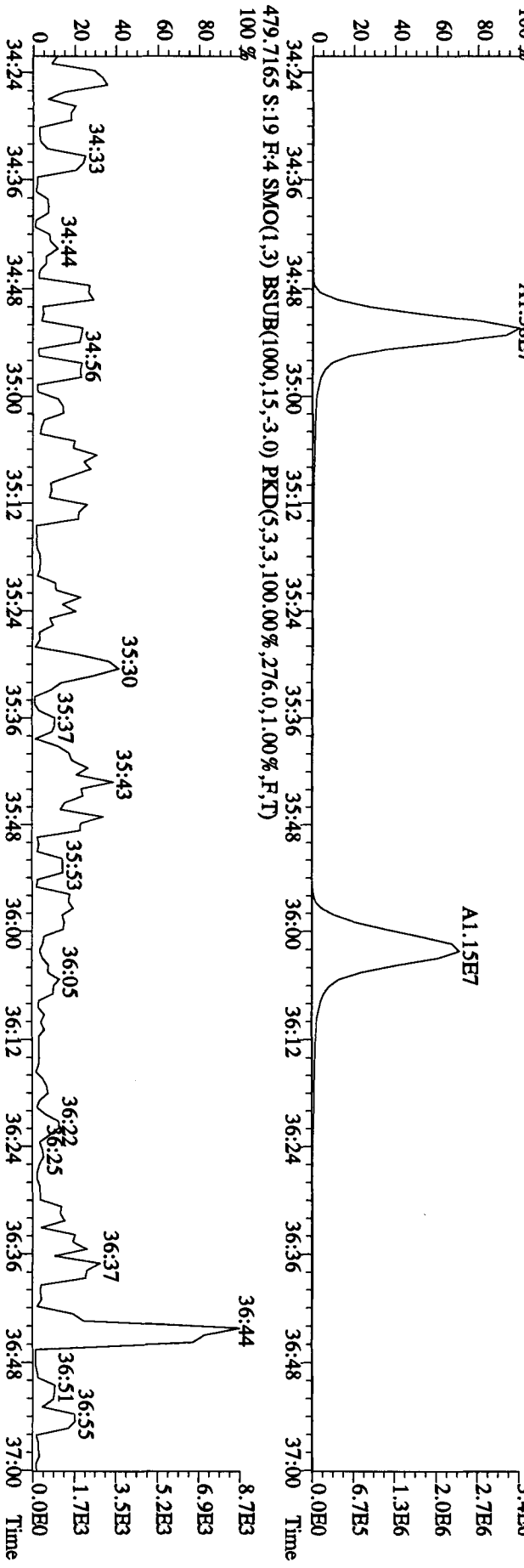
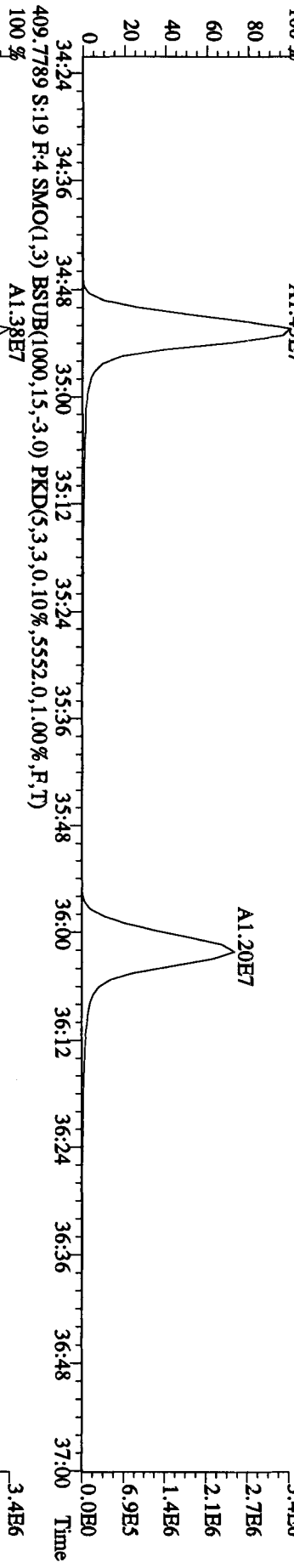
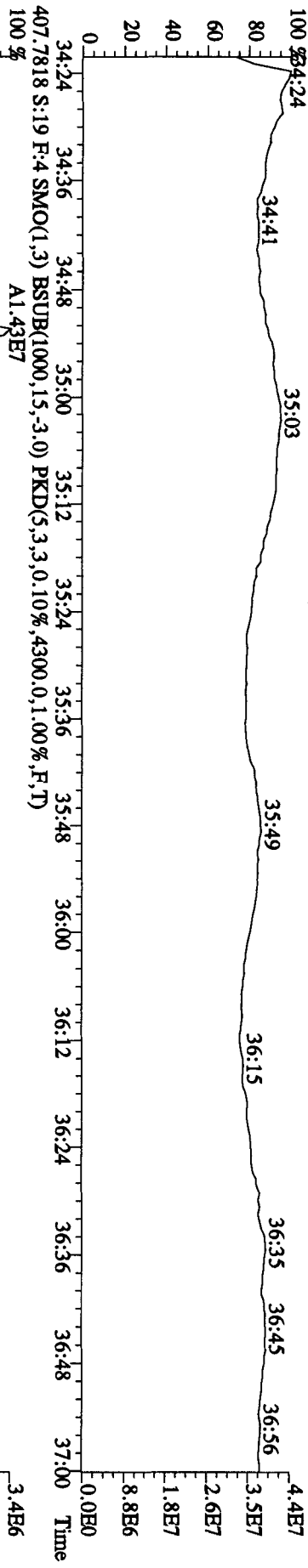




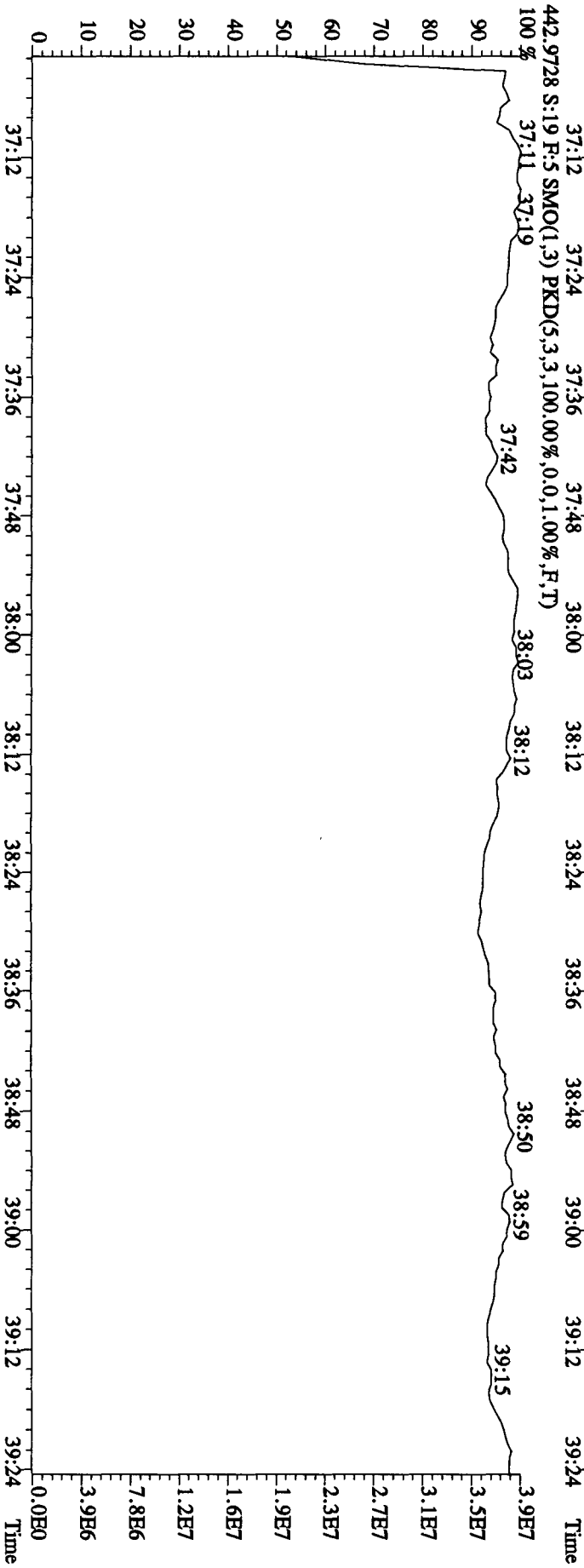
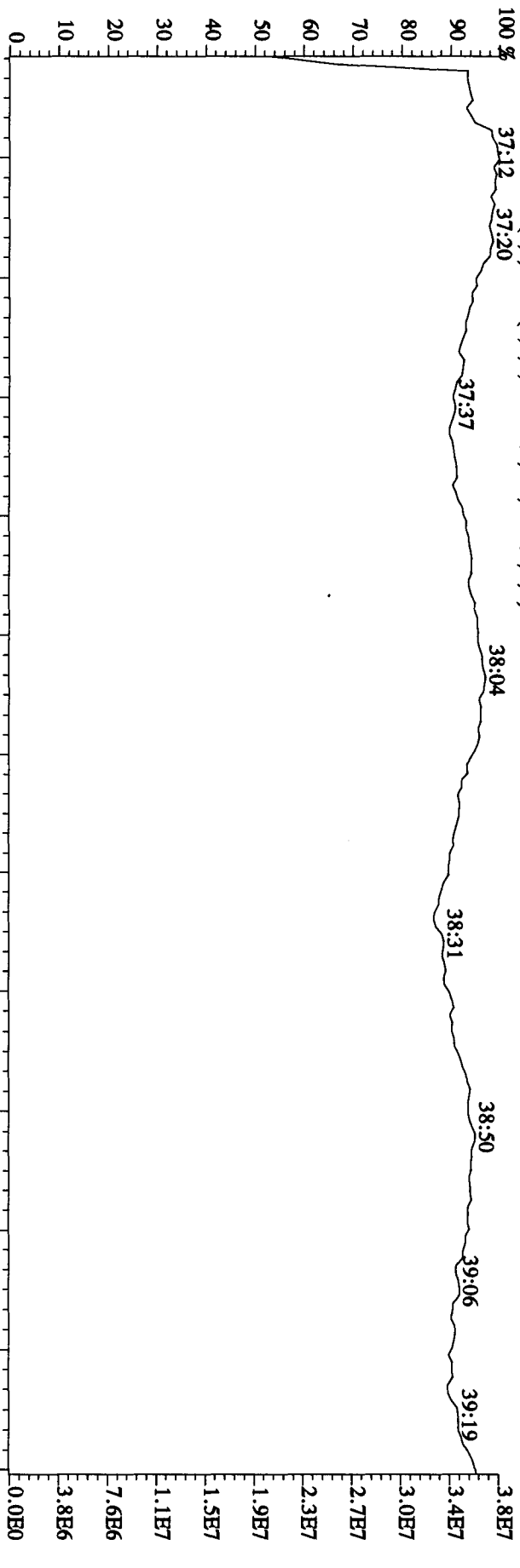
File:28OC104D5 #1-287 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#19 Text:L8V09-1-AC :G0J210484-11LCS Exp:DIOXINRES
 392.9760 S:19 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:28OC104D5 #1-200 Acq:28-OCT-2010 22:59:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#19 Text:L8V09-1-AC :G0J210484-1ILCS Exp:DIOXINRES
 430.9728 S:19 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 %



File: 28OC104D5 #1-193 Acq: 28-OCT-2010 22:59:20 GC EI + Voltage SIR Autospec-UltimaE
 Sample#19 Text: L8V09-1-AC : G0J210484-11LCS Exp: DIOXINRES
 454.9728 S:19 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



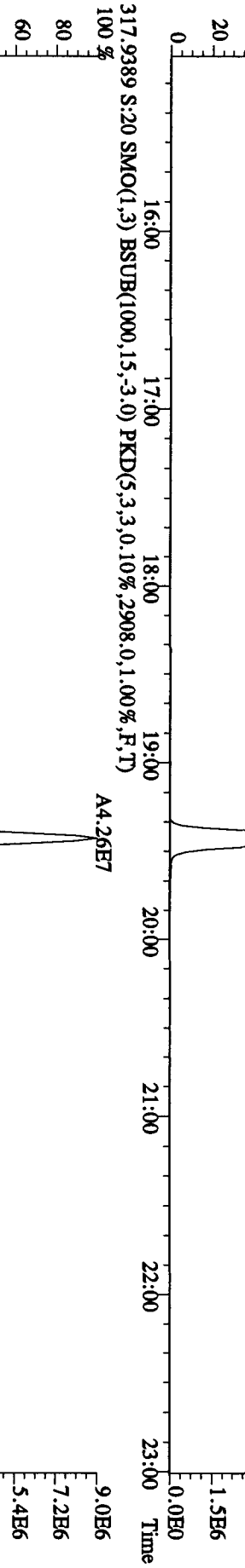
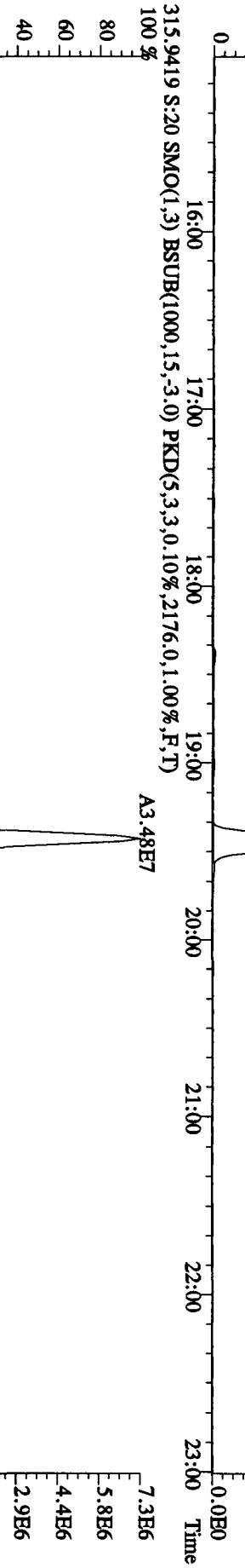
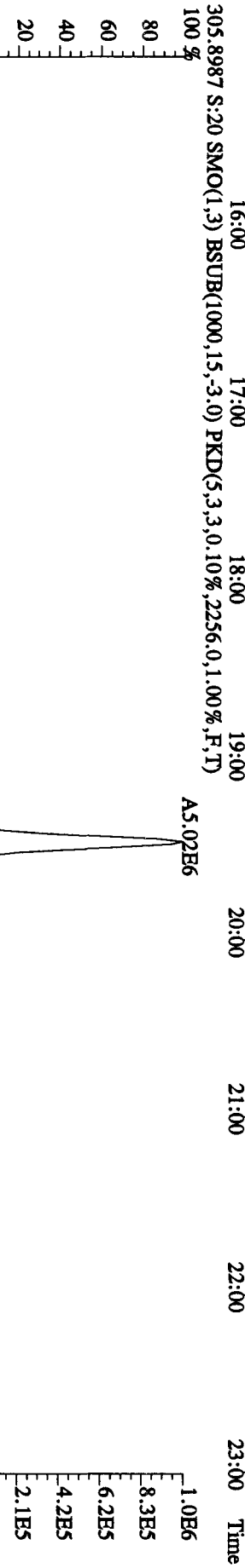
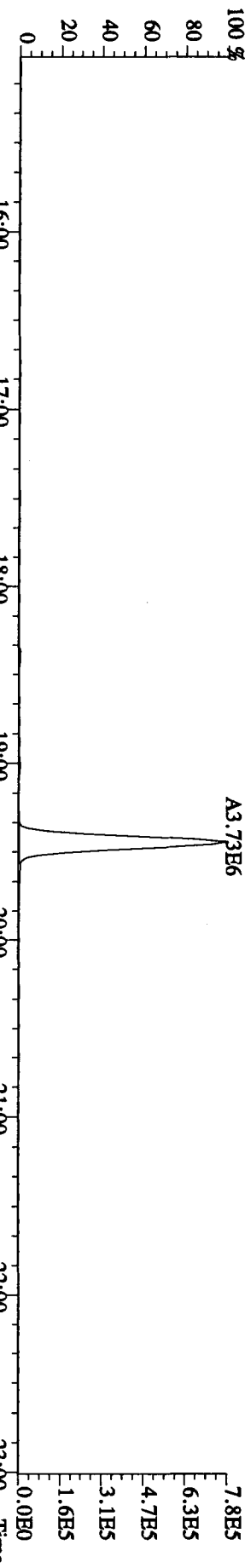
Run text: L8V09-1-AD Sample text: L8V09-1-AD :G0J210484-11DCS
 Run #8 Filename: 28OC104D5 S: 20 I: 1 Results: 28OC104D5TO9
 Acquired: 28-OCT-10 23:43:55 Processed: 29-OCT-10 08:54:30
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAMP

KB 10.50.5

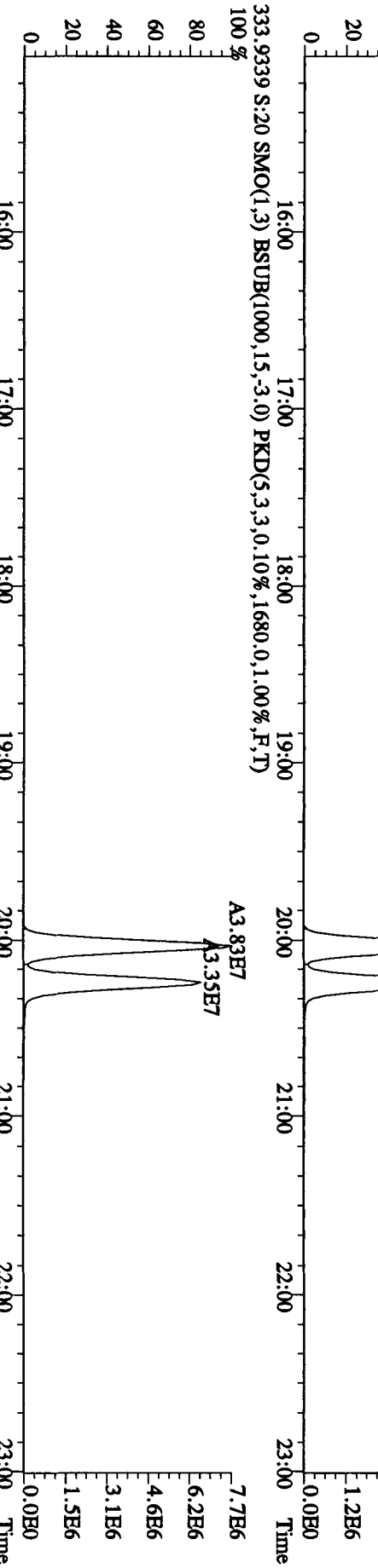
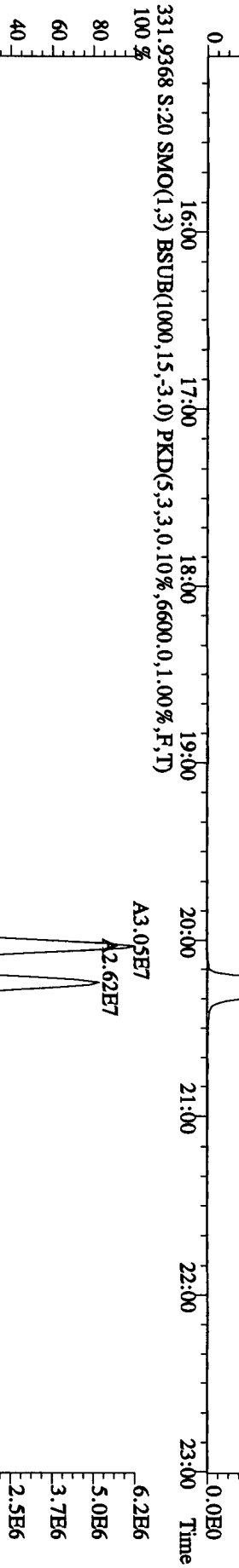
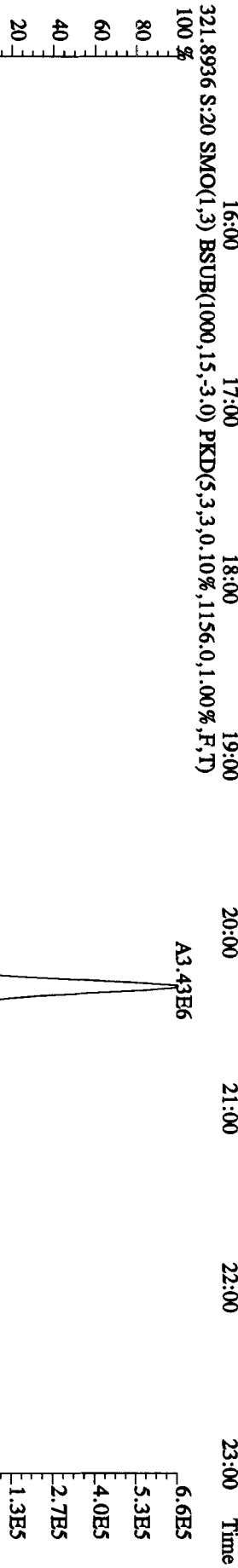
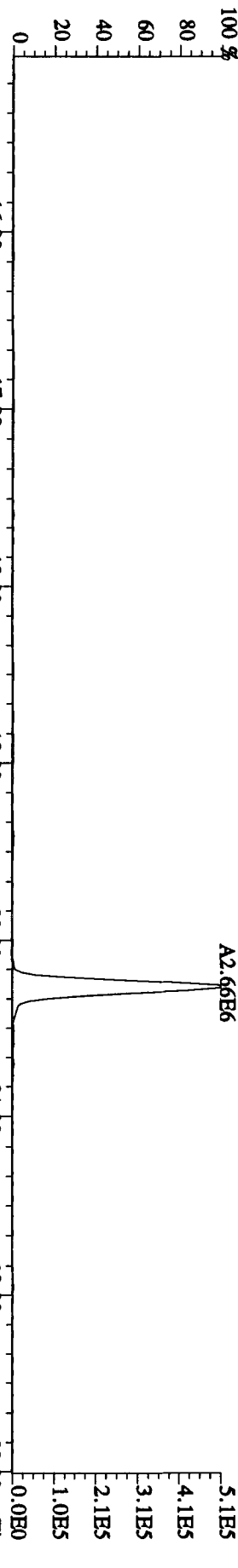
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68760500	0.80 y	20:02	-	41.18	-	-	n
13C-2,3,7,8-TCDF	77481900	0.82 y	19:26	1.23	3666.47	3.55	91.7	n
2,3,7,8-TCDF	8749090	0.74 y	19:27	0.99	454.16	2.46	-	n
Total TCDF	8879669	0.57 n	17:32	0.99	460.94	2.46	-	n
13C-2,3,7,8-TCDD	59778900	0.78 y	20:15	0.91	3842.32	7.86	96.1	n
2,3,7,8-TCDD	6096990	0.78 y	20:16	0.98	414.83	1.90	-	n
Total TCDD	6160334	0.79 y	15:08	0.98	419.14	1.90	-	n
37Cl-2,3,7,8-TCDD	71946	1.00 y	20:16	1.33	3.63	0.13	0.2	n
13C-1,2,3,7,8-PeCDF	60277900	1.56 y	25:19	0.88	4002.67	2.42	100.1	n
1,2,3,7,8-PeCDF	37157300	1.53 y	25:21	1.08	2290.22	4.67	-	n
2,3,4,7,8-PeCDF	36991400	1.54 y	26:54	1.05	2347.70	4.81	-	n
Total F2 PeCDF	75447807	1.18 n	23:44	1.06	4719.16	4.74	-	n
Total F1 PeCDF	33053	0.29 n	15:15	1.06	<u>2.07</u>	1.56	-	n
13C-1,2,3,7,8-PeCDD	45422500	1.53 y	27:43	0.66	3998.58	2.16	100.0	n
1,2,3,7,8-PeCDD	24517430	1.48 y	27:44	0.93	2332.95	4.45	-	n
Total PeCDD	24517430	1.48 y	27:44	0.93	2332.95	4.45	-	n
13C-1,2,3,7,8,9-HxCDD	48748000	1.34 y	33:22	-	41.17	-	-	n
13C-1,2,3,4,7,8-HxCDF	44340100	0.49 y	32:16	1.04	3482.35	10.69	87.1	n
1,2,3,4,7,8-HxCDF	31022400	1.21 y	32:17	1.22	2299.13	1.07	-	n
1,2,3,6,7,8-HxCDF	34455500	1.08 y	32:23	1.28	2425.26	1.02	-	n
2,3,4,6,7,8-HxCDF	32975600	1.15 y	32:55	1.23	2411.83	1.05	-	n
1,2,3,7,8,9-HxCDF	28031700	1.16 y	33:32	1.10	2302.74	1.18	-	n
Total HxCDF	126700647	1.06 y	31:16	1.21	9455.05	1.08	-	n
13C-1,2,3,6,7,8-HxCDD	40909600	1.27 y	33:07	0.83	4040.51	2.07	101.0	n
1,2,3,4,7,8-HxCDD	23668900	1.24 y	33:02	1.04	2231.29	1.05	-	n
1,2,3,6,7,8-HxCDD	24960700	1.28 y	33:07	1.16	2098.89	0.94	-	n
1,2,3,7,8,9-HxCDD	25423700	1.26 y	33:22	1.18	2103.58	0.92	-	n
Total HxCDD	74053300	1.24 y	33:02	1.13	6433.76	0.97	-	n
13C-1,2,3,4,6,7,8-HpCDF	39113100	0.44 y	34:53	0.91	3526.74	20.97	88.2	n
1,2,3,4,6,7,8-HpCDF	30655000	1.04 y	34:53	1.35	2329.52	8.53	-	n
1,2,3,4,7,8,9-HpCDF	25124700	1.05 y	36:02	1.09	2349.87	10.49	-	n
Total HpCDF	55779700	1.04 y	34:53	1.22	4679.39	9.41	-	n
13C-1,2,3,4,6,7,8-HpCDD	38128000	1.02 y	35:42	0.83	3784.85	10.58	94.6	n
1,2,3,4,6,7,8-HpCDD	22182100	1.01 y	35:43	1.07	2171.44	7.77	-	n
Total HpCDD	22325335	0.90 y	35:08	1.07	2185.46	7.77	-	n
13C-OCDD	53303300	0.86 y	38:14	0.62	7055.65	10.09	88.2	n

OCDF	40604900	0.90	y	38:22	1.37	4447.33	5.33	-	n
OCDD	34434900	0.90	y	38:15	1.20	4309.24	9.35	-	n

File: 28OC104D5 #1-530 Acq: 28-OCT-2010 23:43:55 GC EI + Voltage SIR Autospec-UltimaE
Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES
303.9016 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1080.0,1.00%,F,T)



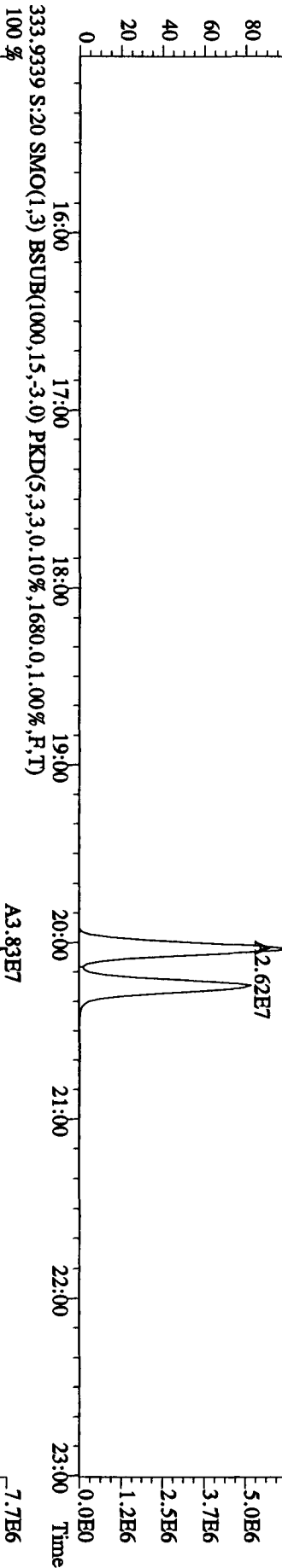
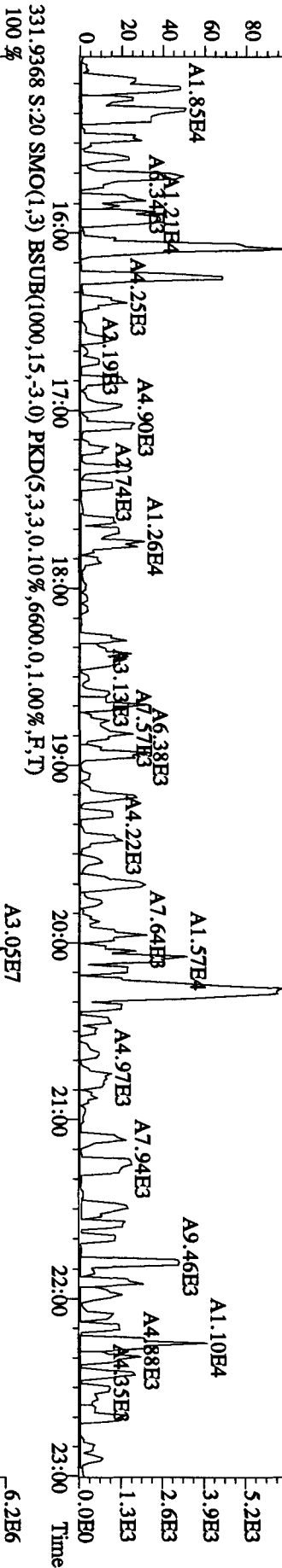
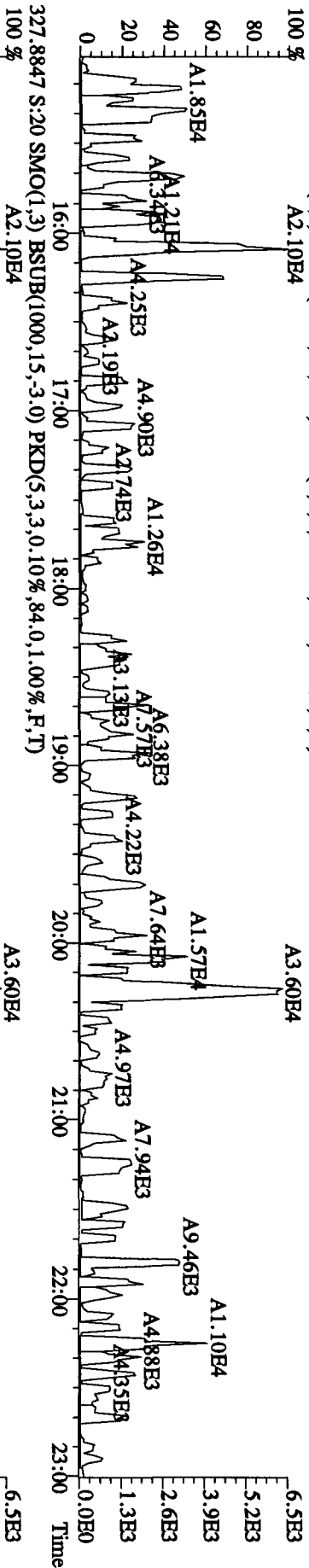
File: 28OC104D5 #1-530 Acq: 28-OCT-2010 23:43:55 GC EI + Voltage SIR Autospec-UltimaB
 Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES
 319.8965 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,676.0,1.00%,F,T)



File:28OC104D5 #1-530 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE

Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES

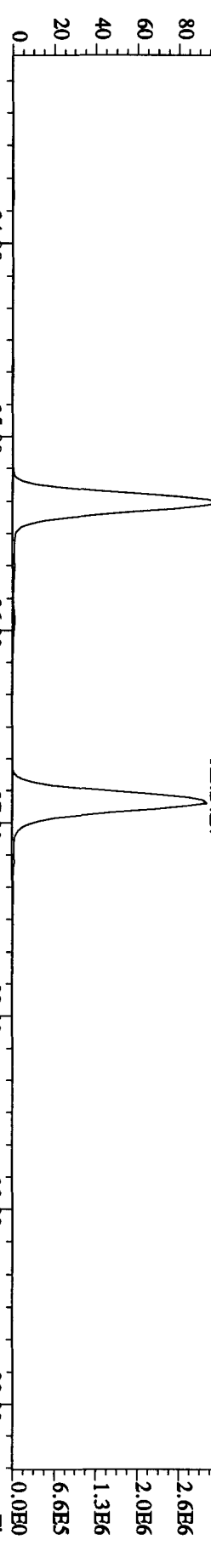
327.8847 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,84.0,1.00%,F,T)



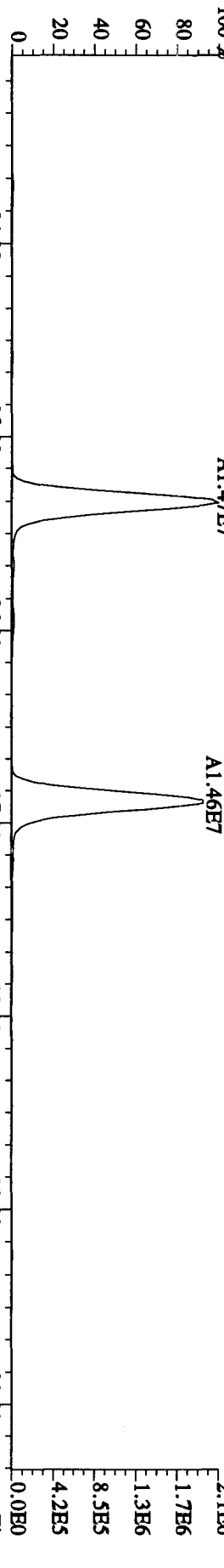
File:28OC104D5 #1-470 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB

Sample#20 Text:L8V09-1-AD :G0J210484-1IDCS Exp:DIOXINRES

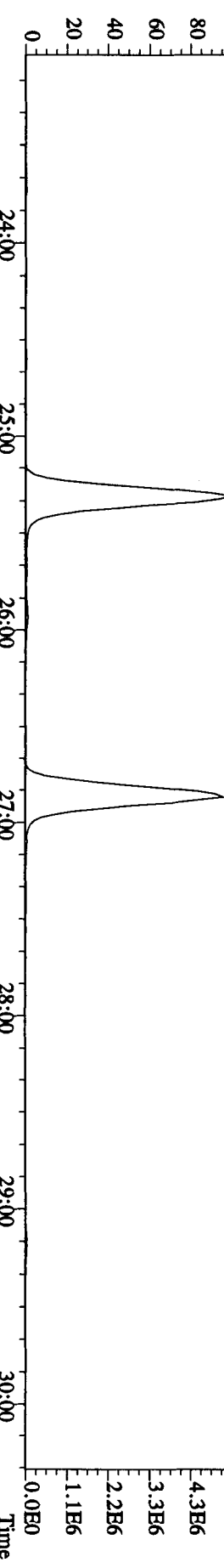
339.8597 S:20 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1660,0,1,00%,F,T)



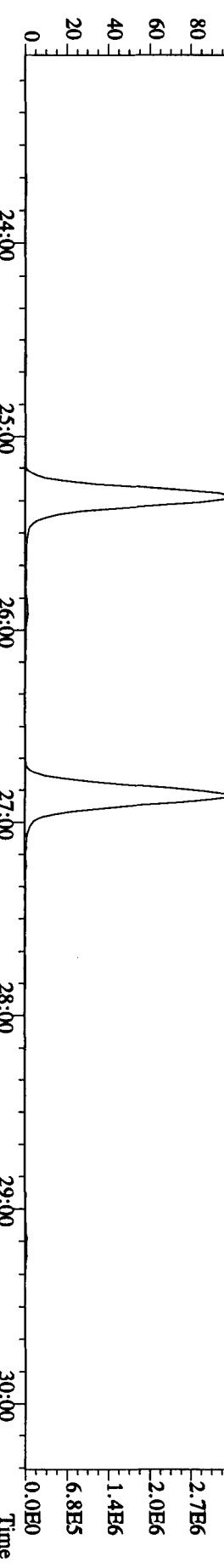
341.8567 S:20 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2024,0,1,00%,F,T)



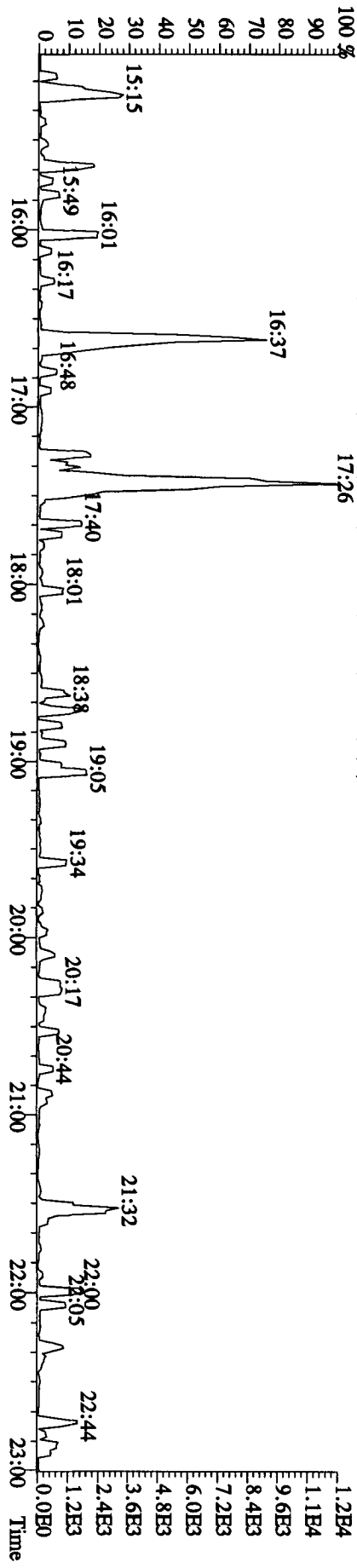
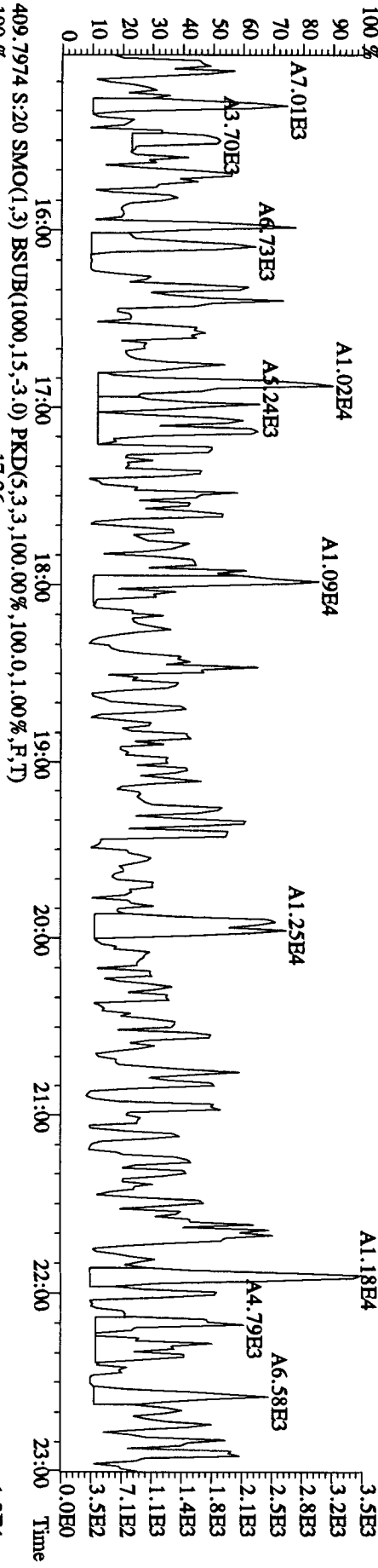
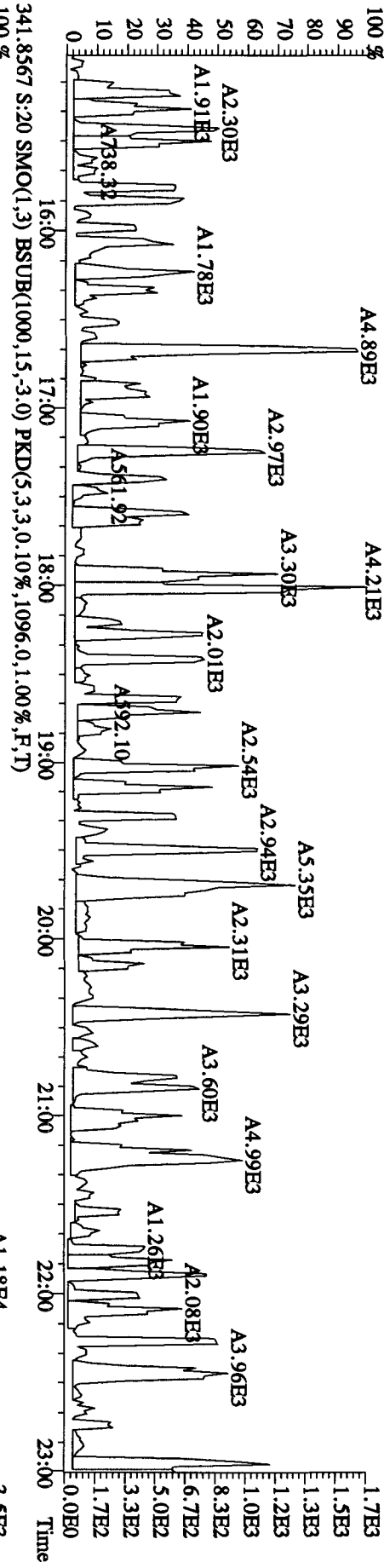
351.9000 S:20 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,216,0,1,00%,F,T)



353.8970 S:20 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2252,0,1,00%,F,T)



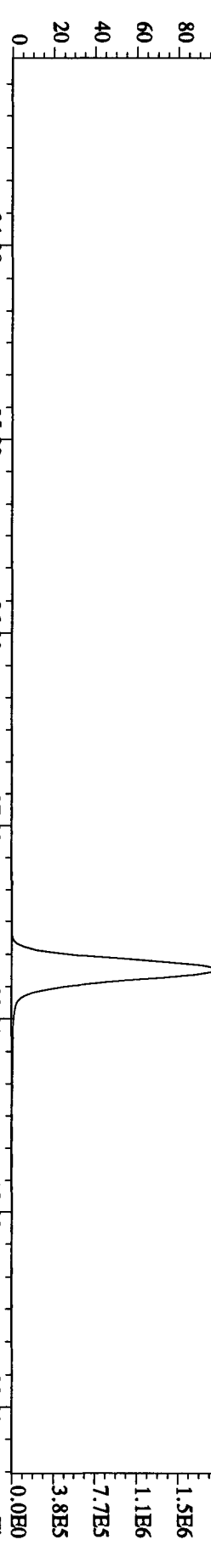
File: 280C104D5 #1-530 Acq: 28-OCT-2010 23:43:55 GC EI + Voltage SIR Autospec-UltimaB
 Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES
 339.8597 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,116.0,1.00%,F,T)
 A4.89E3 A4.21E3



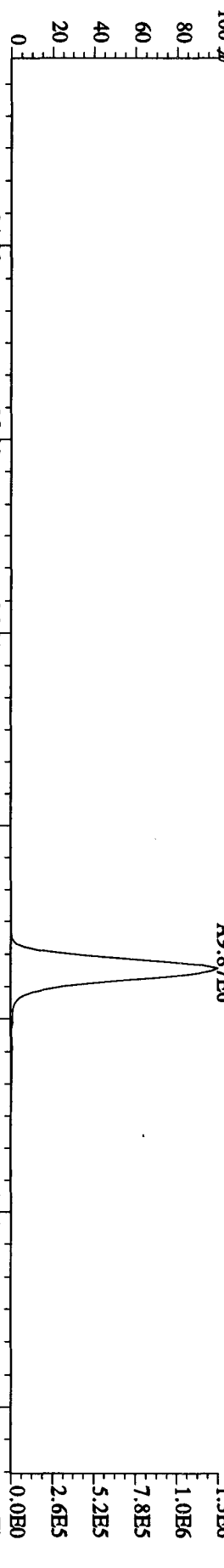
File:28OC104D5 #1-470 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB

Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES

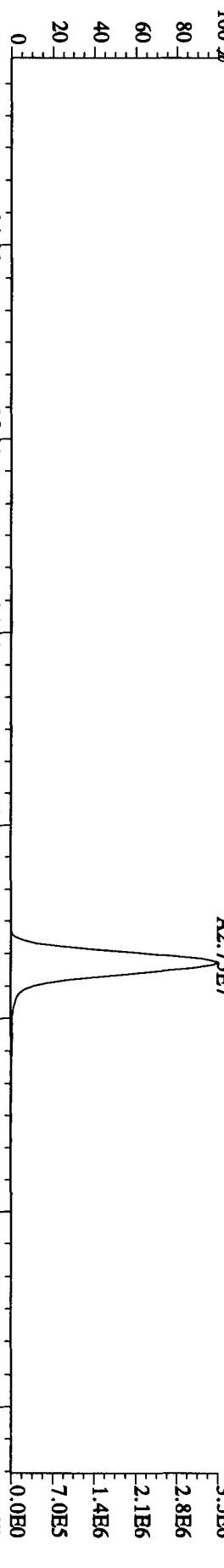
355.8546 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1868,0,1,00%,F,T)



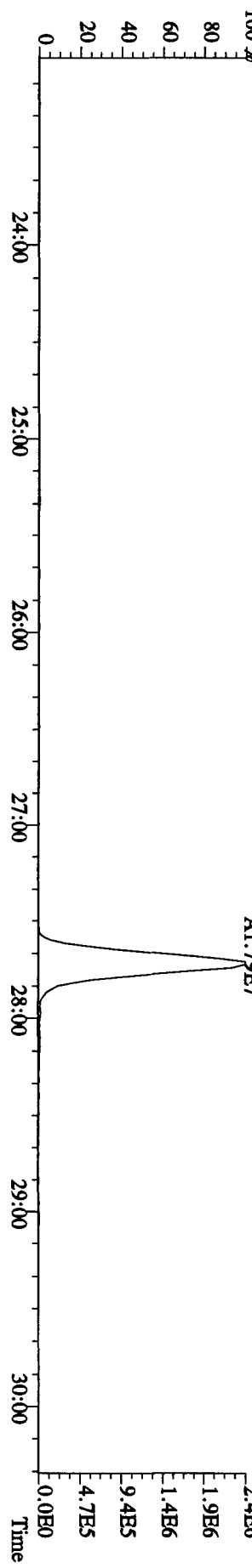
357.8516 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,156,0,1,00%,F,T)



367.8949 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1540,0,1,00%,F,T)



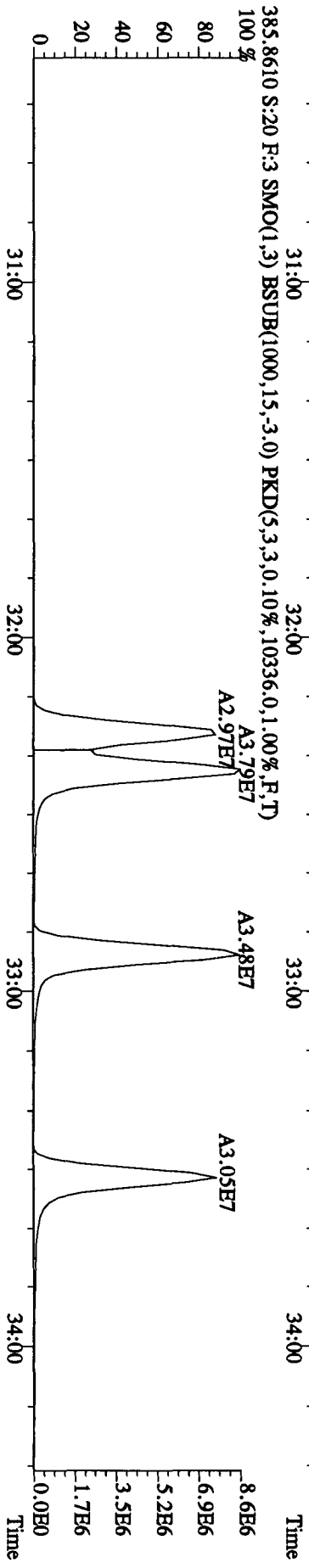
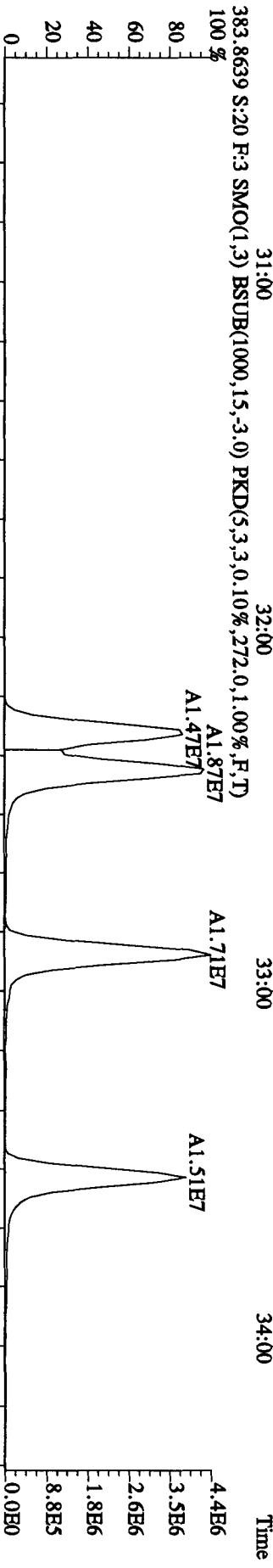
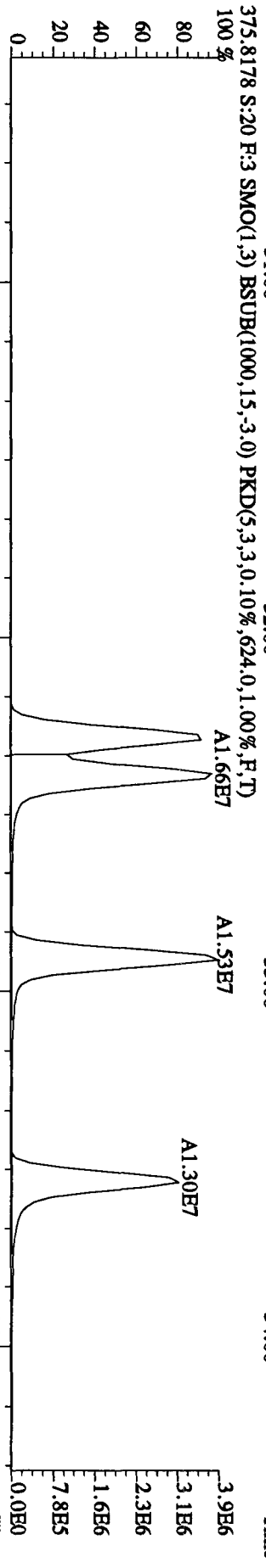
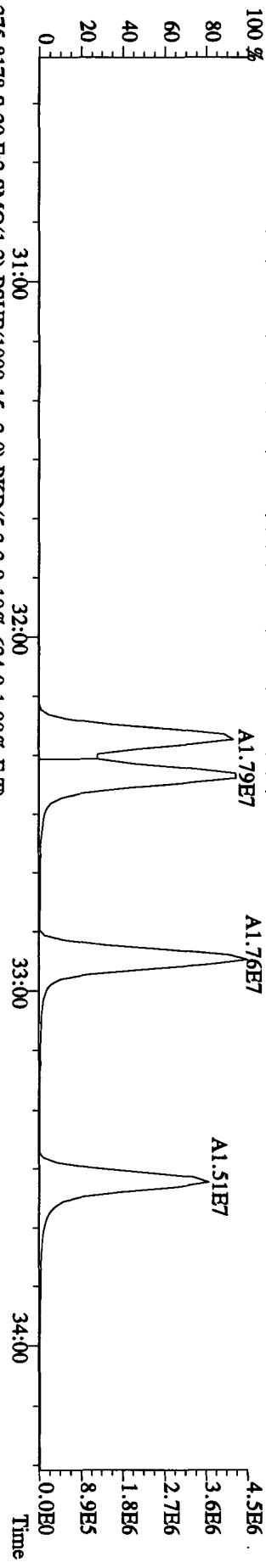
369.8919 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,124,0,1,00%,F,T)



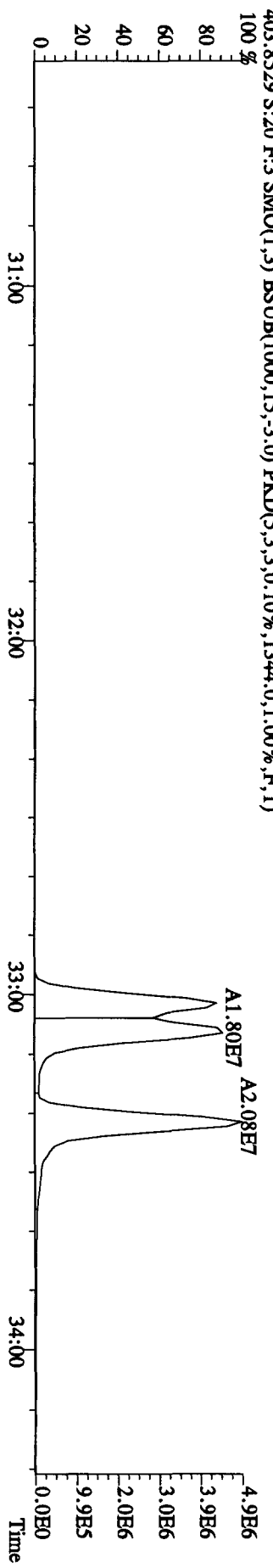
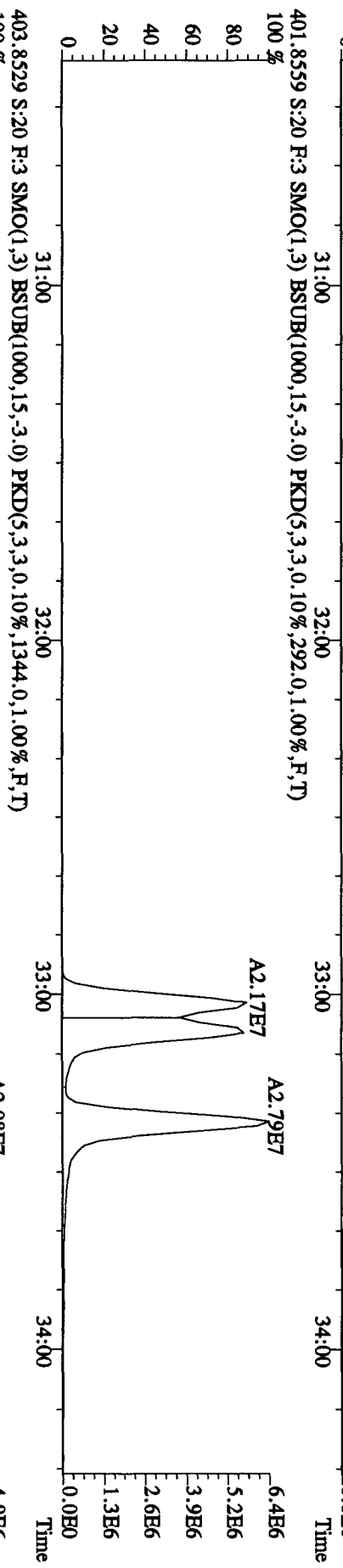
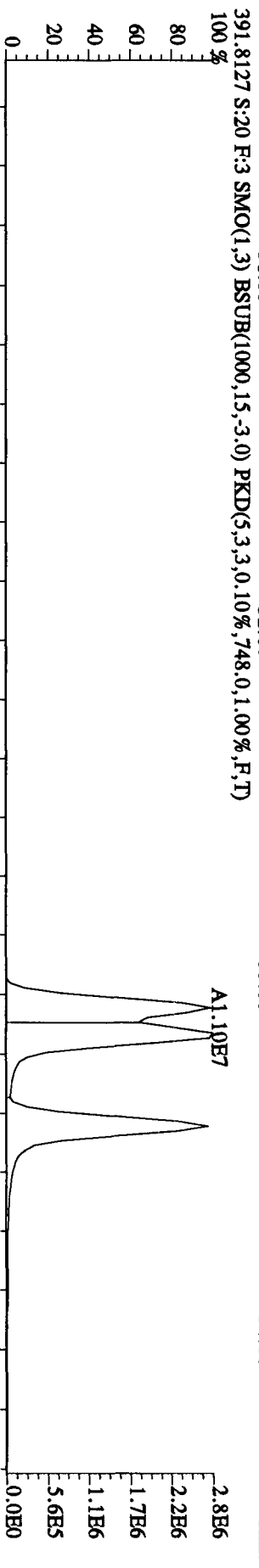
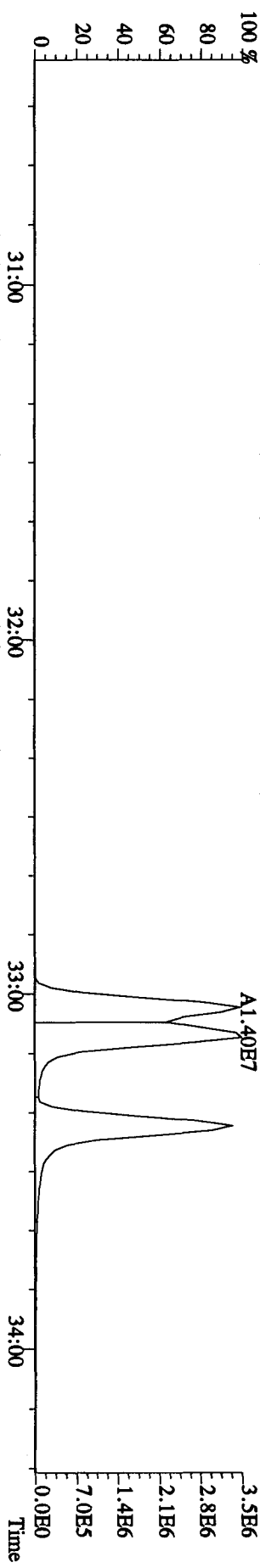
File:28OC104D5 #1-287 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE

Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES

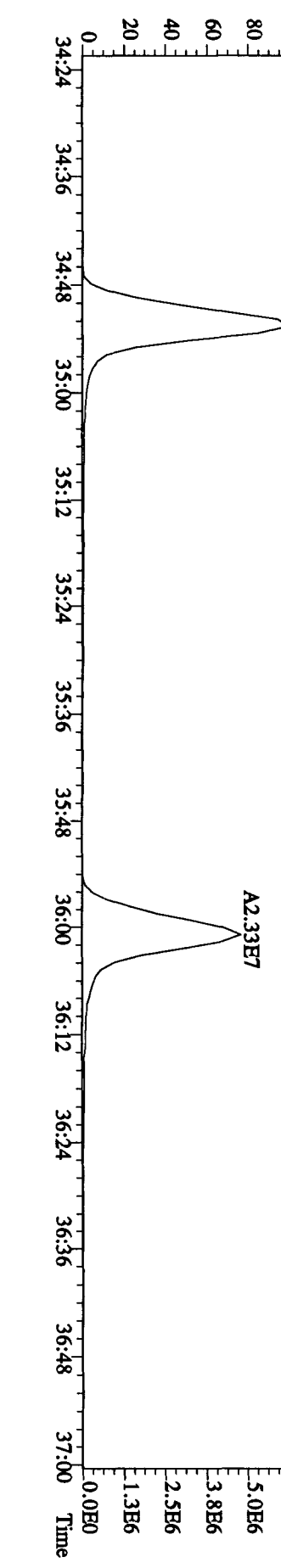
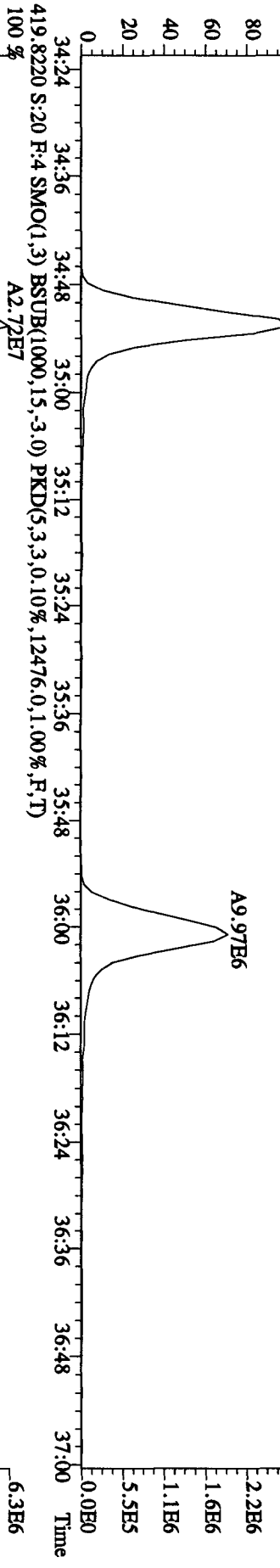
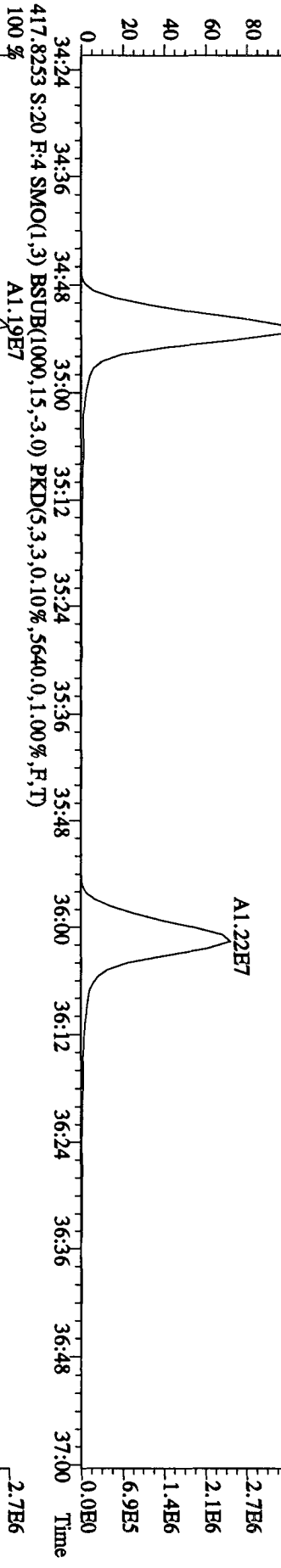
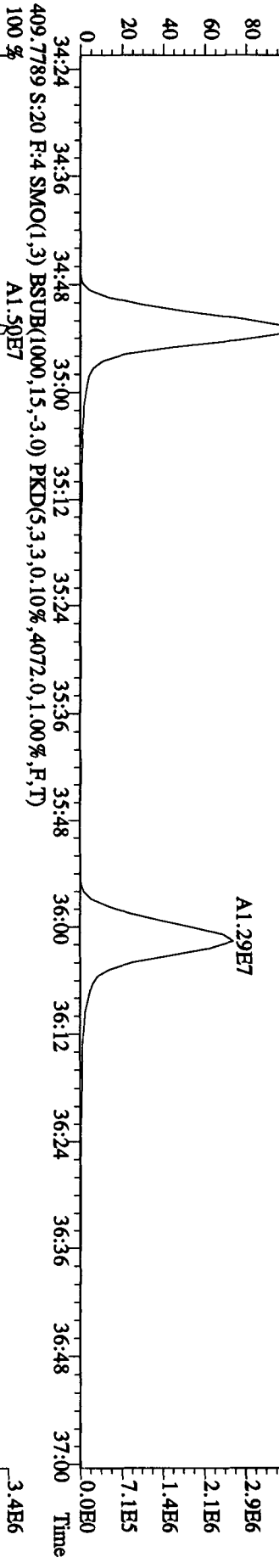
373.8208 S:20 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,616,0,1.00%,F,T)



File:28OC104D5 #1-287 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES
 389,8157 S:20 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,172.0,1.00%,F,T) 100 %

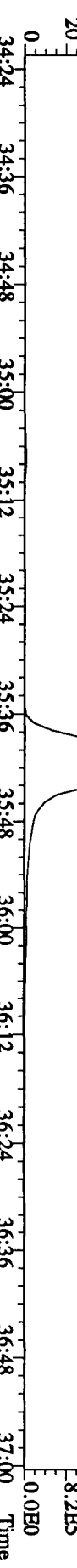
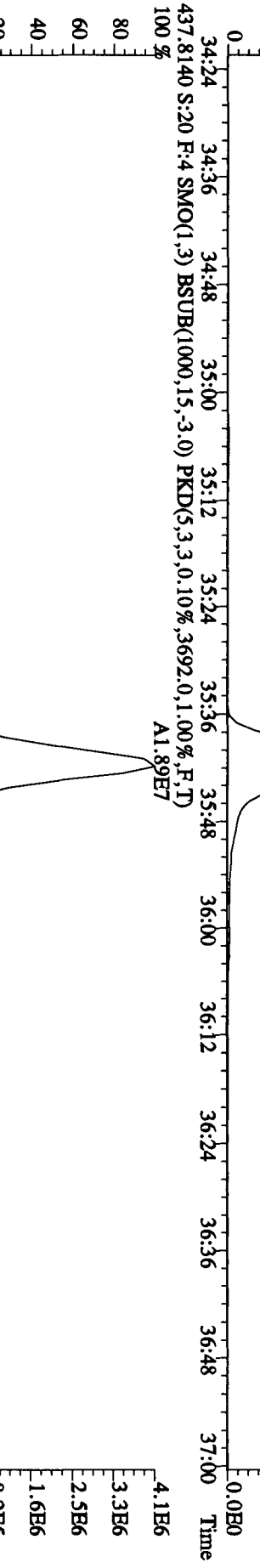
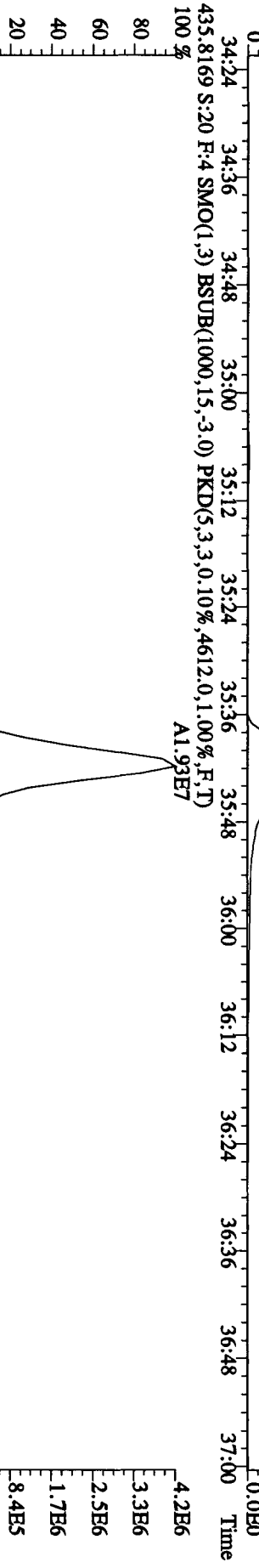
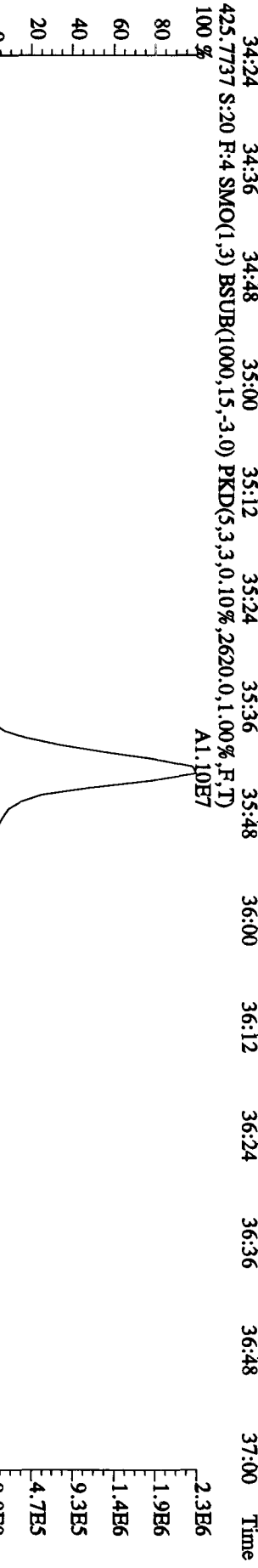
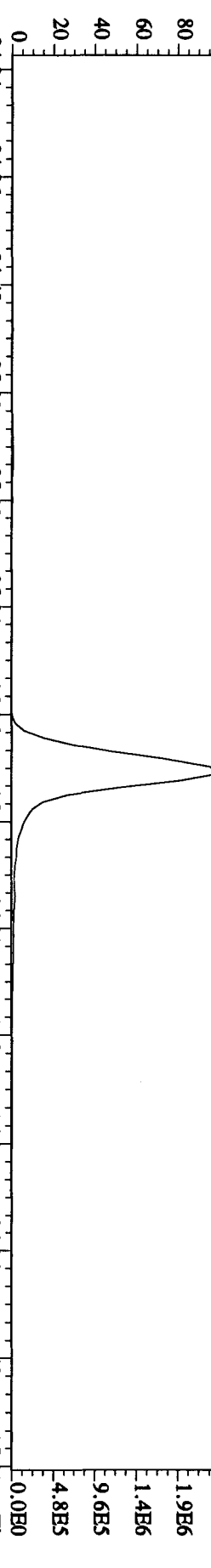


File: 280C104D5 #1-200 Acq: 28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES
 407.7818 S:20 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4556,0.1,00%,F,T)
 100%

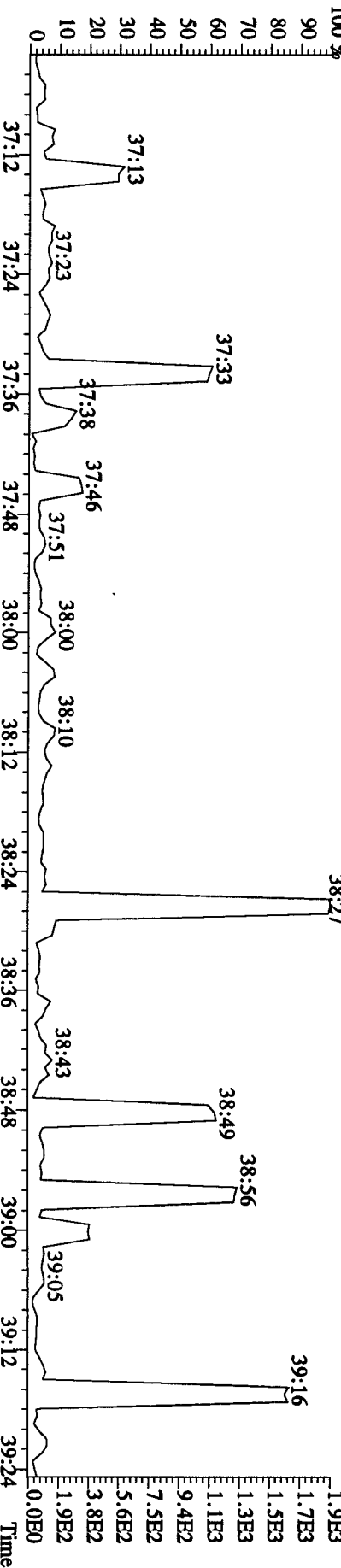
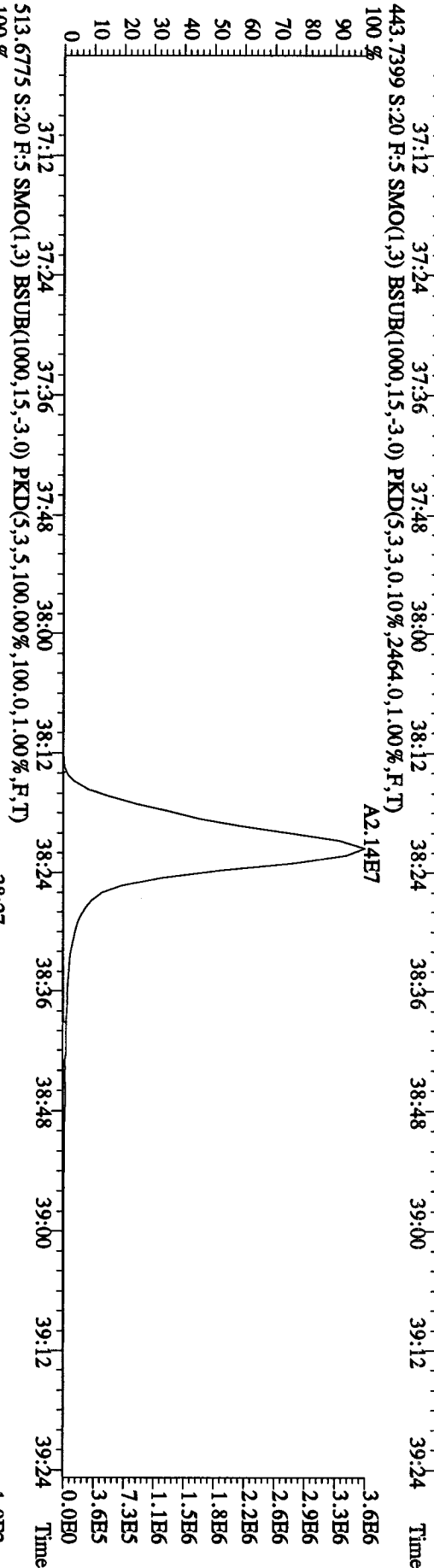
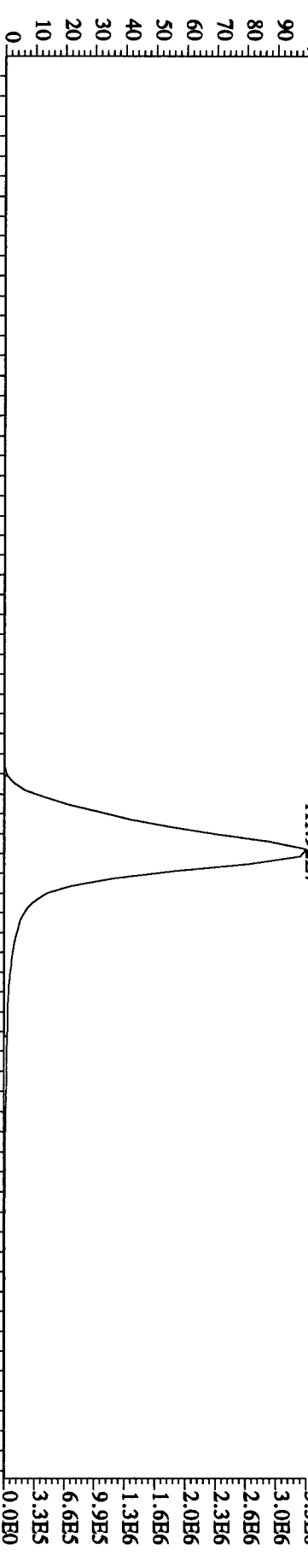


File: 280C104D5 #1-200 Acq: 28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB

Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES



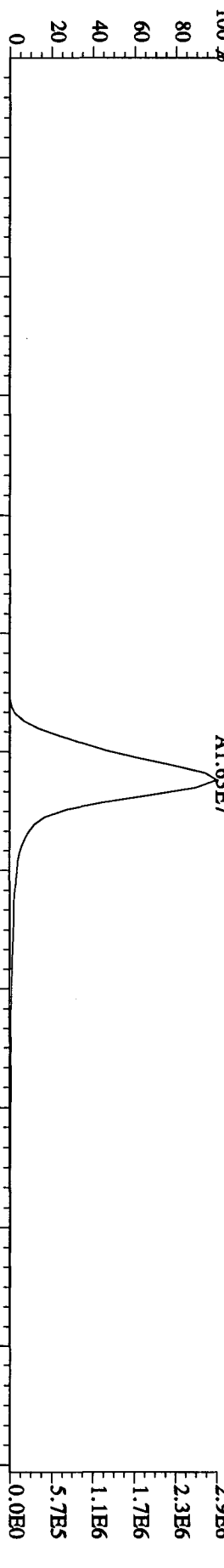
File:28OC104D5 #1-193 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES
 441.7428 S:20 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,352.0,1.00%,F,T)



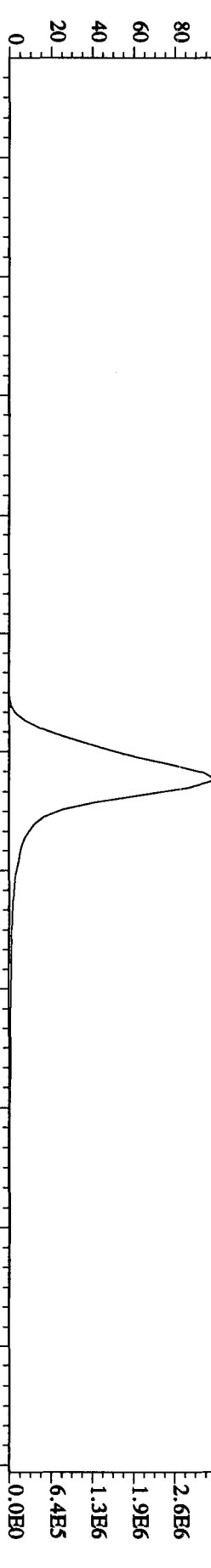
File: 280C104D5 #1-193 Acq: 28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-Ultimate

Sample# 20 Text: L8V09-1-AD :G0J210484-11DCS Exp: DIOXINRES

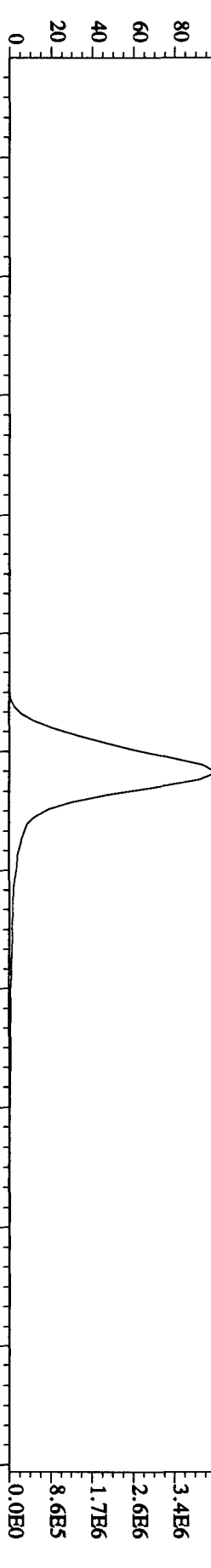
457.7377 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2740,0,1,00%,F,T)



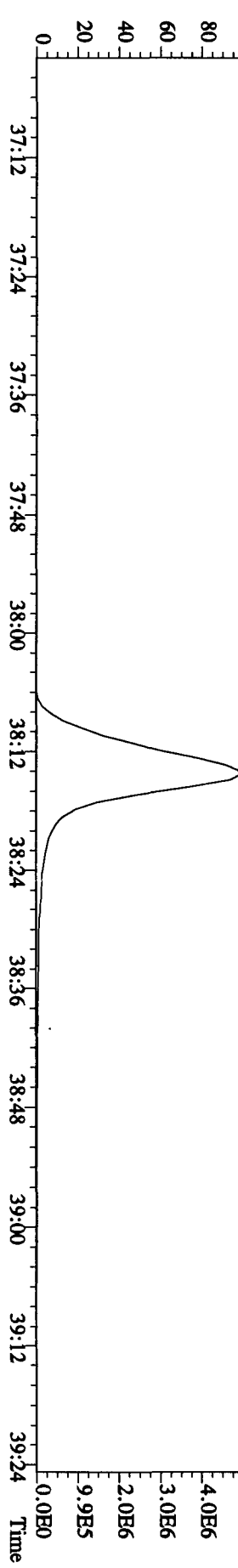
459.7348 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1588,0,1,00%,F,T)



469.7779 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3284,0,1,00%,F,T)



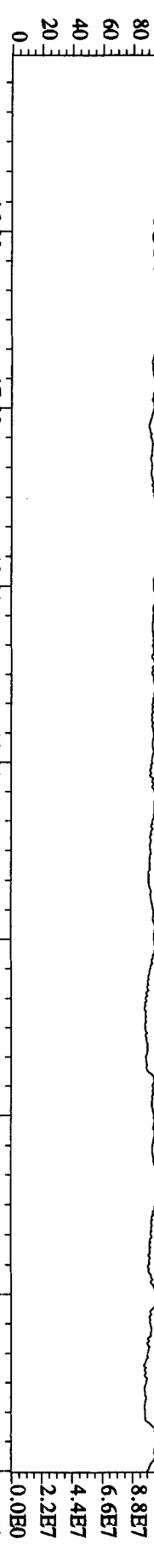
471.7750 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2656,0,1,00%,F,T)



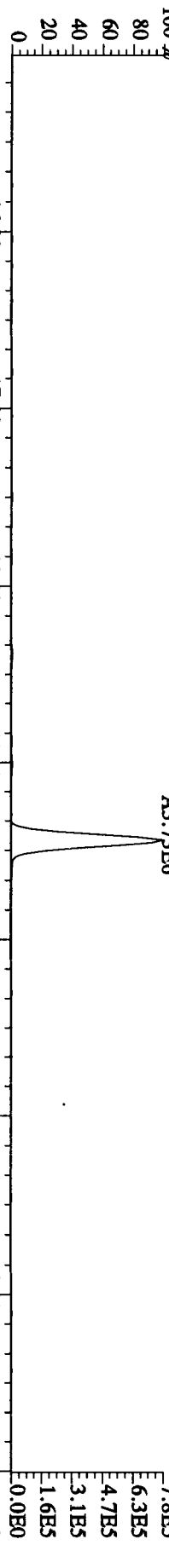
File:280C104D5 #1-530 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB

Sample#20 Text:L8V09-1-AD :G0J210484-11DCS Exp:DIOXINRES

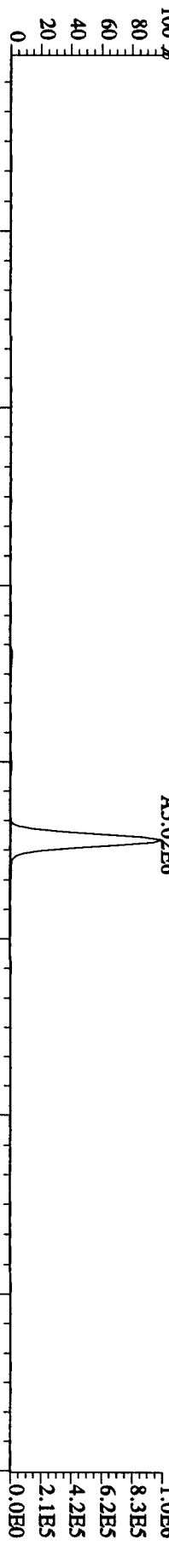
292.9825 S:20 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)



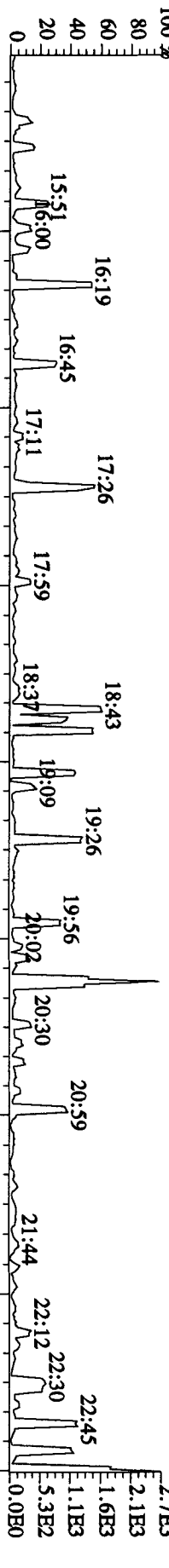
303.9016 S:20 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1.080,0.1,0.00%,F,T)



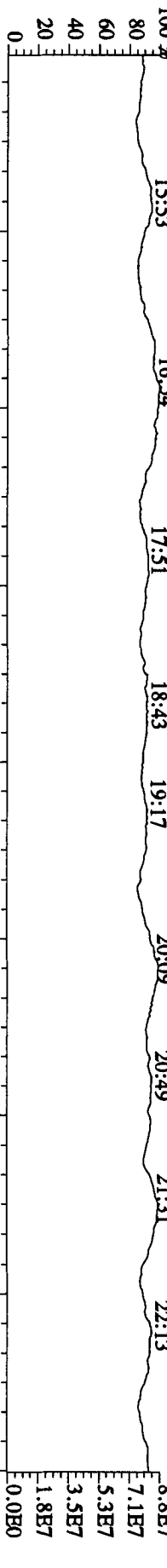
305.8987 S:20 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2.256,0.1,0.00%,F,T)



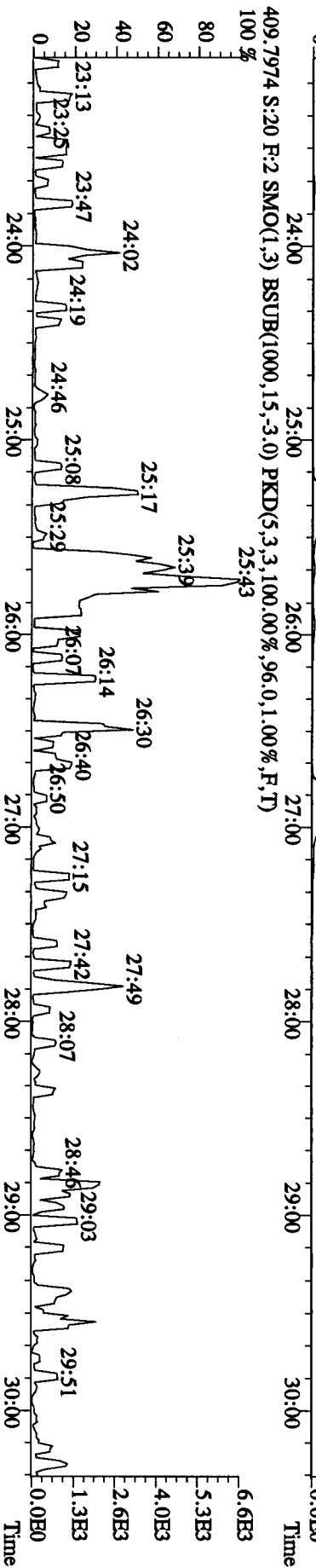
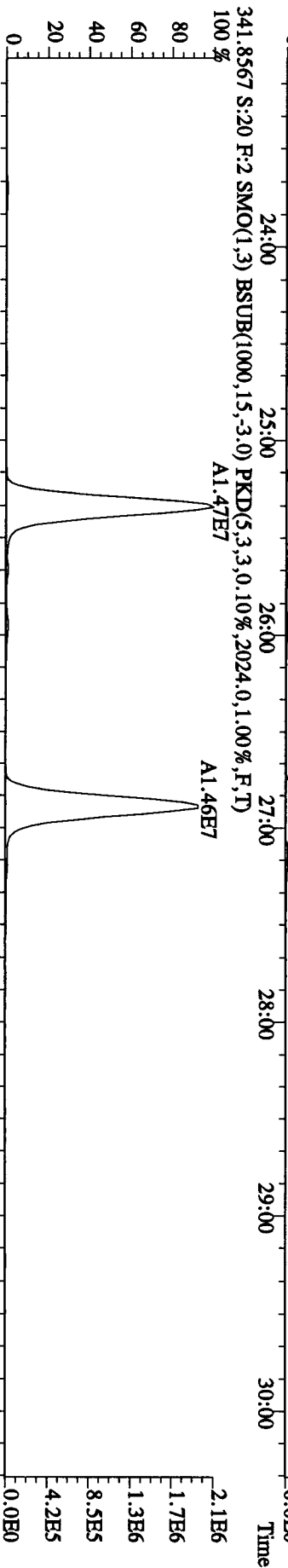
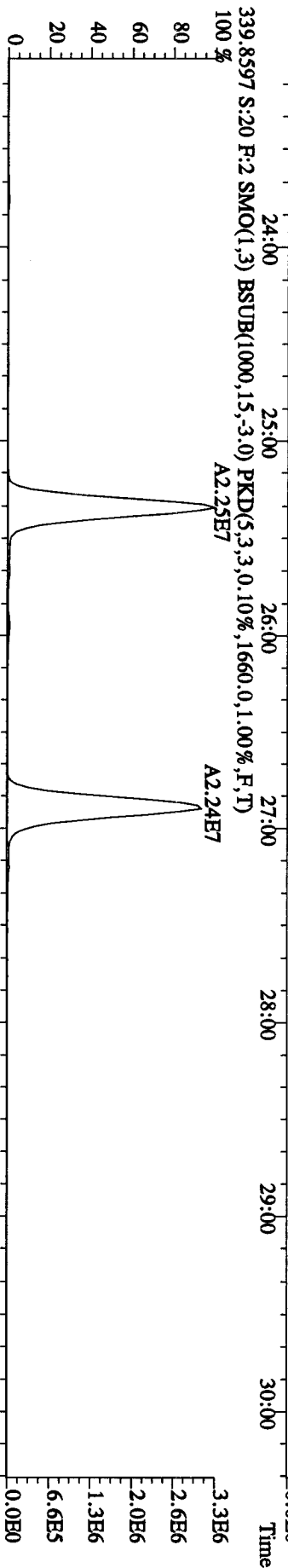
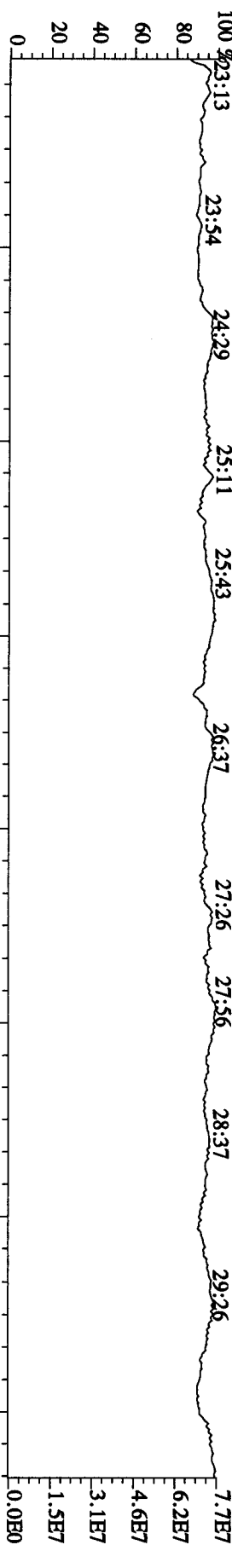
375.8364 S:20 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,100.0,1.00%,F,T)



330.9792 S:20 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



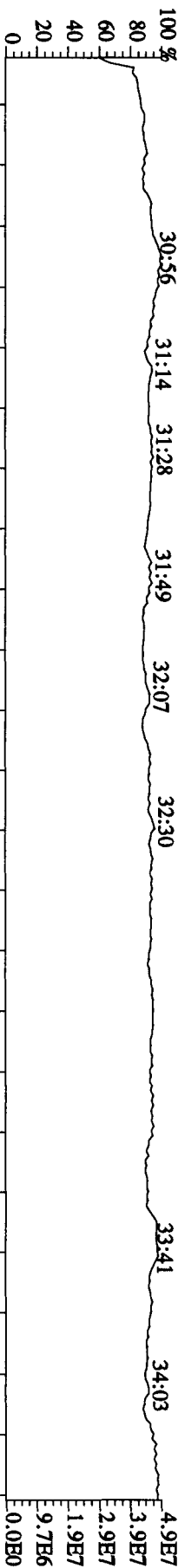
File: 28OC104D5 #1-470 Acq: 28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES



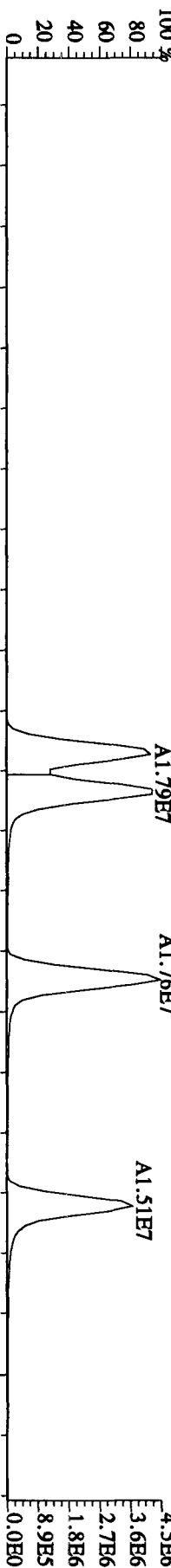
File: 280C104D5 #1-287 Acq: 28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 20 Text: L8V09-1-AD : G0J210484-11DCS Exp: DIOXINRES

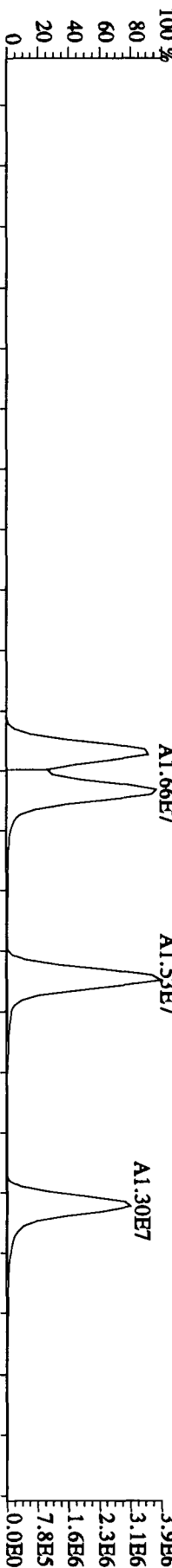
392.9760 S: 20 F: 3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



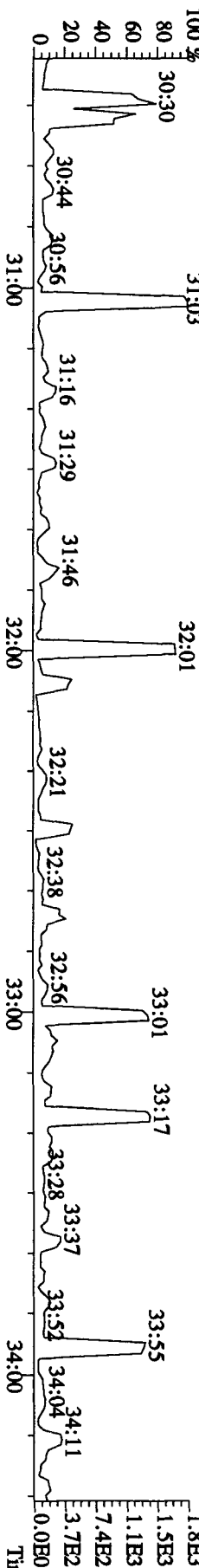
373.8208 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



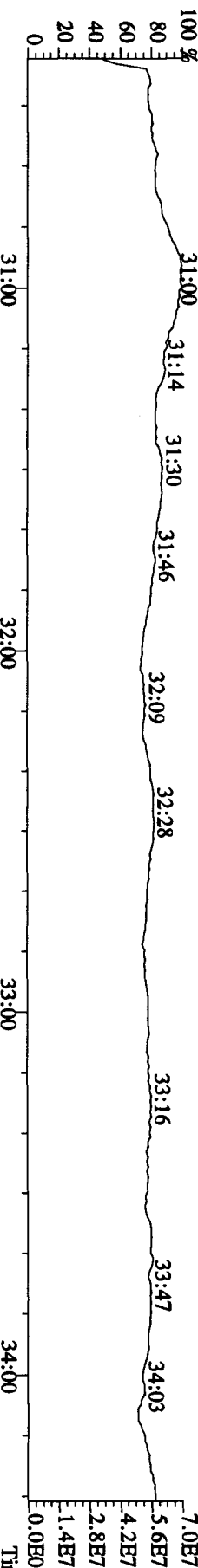
375.8178 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,624.0,1.00%,F,T)



445.7555 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)



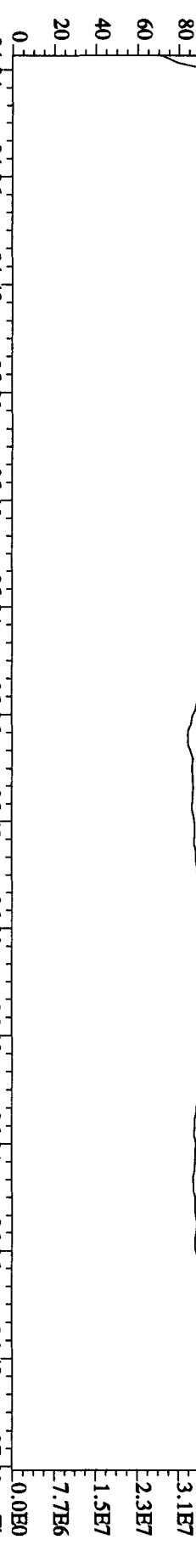
380.9760 S: 20 F: 3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



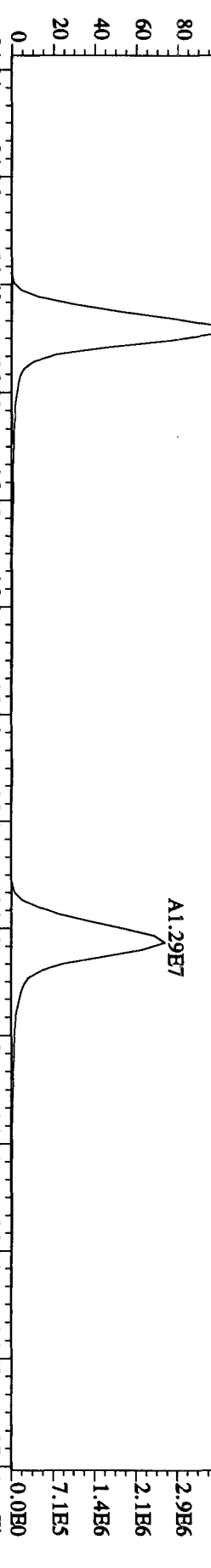
File:28OC104D5 #1-200 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaE

Sample#20 Text:L8V09-1-AD :G0J210484-1IDCS Exp:DIOXINRES

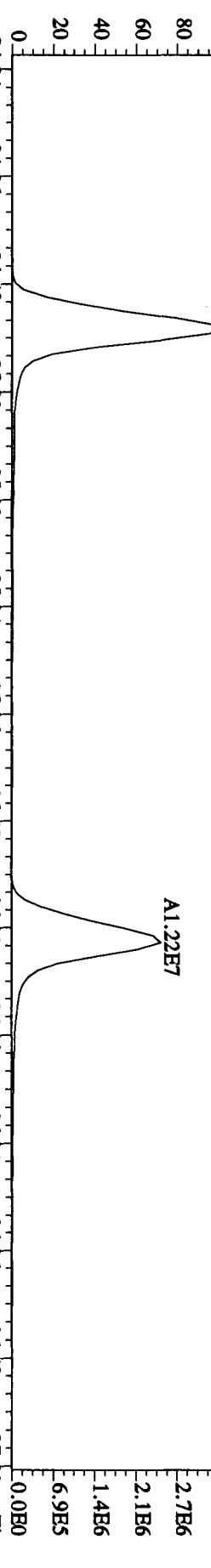
430.9728 S:20 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



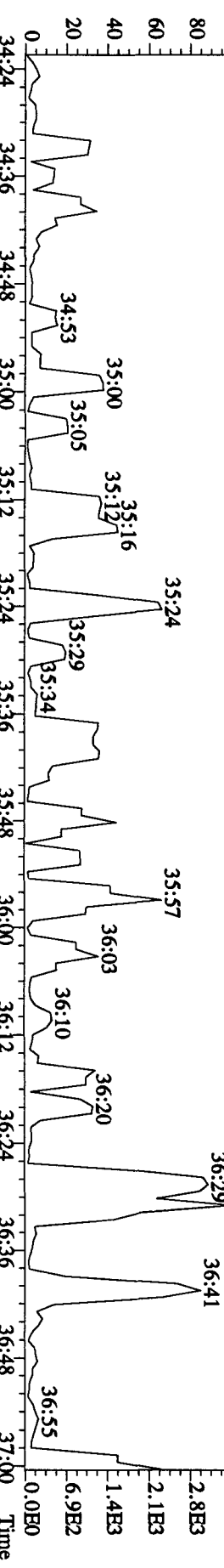
407.7818 S:20 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4556,0,1,00%,F,T)



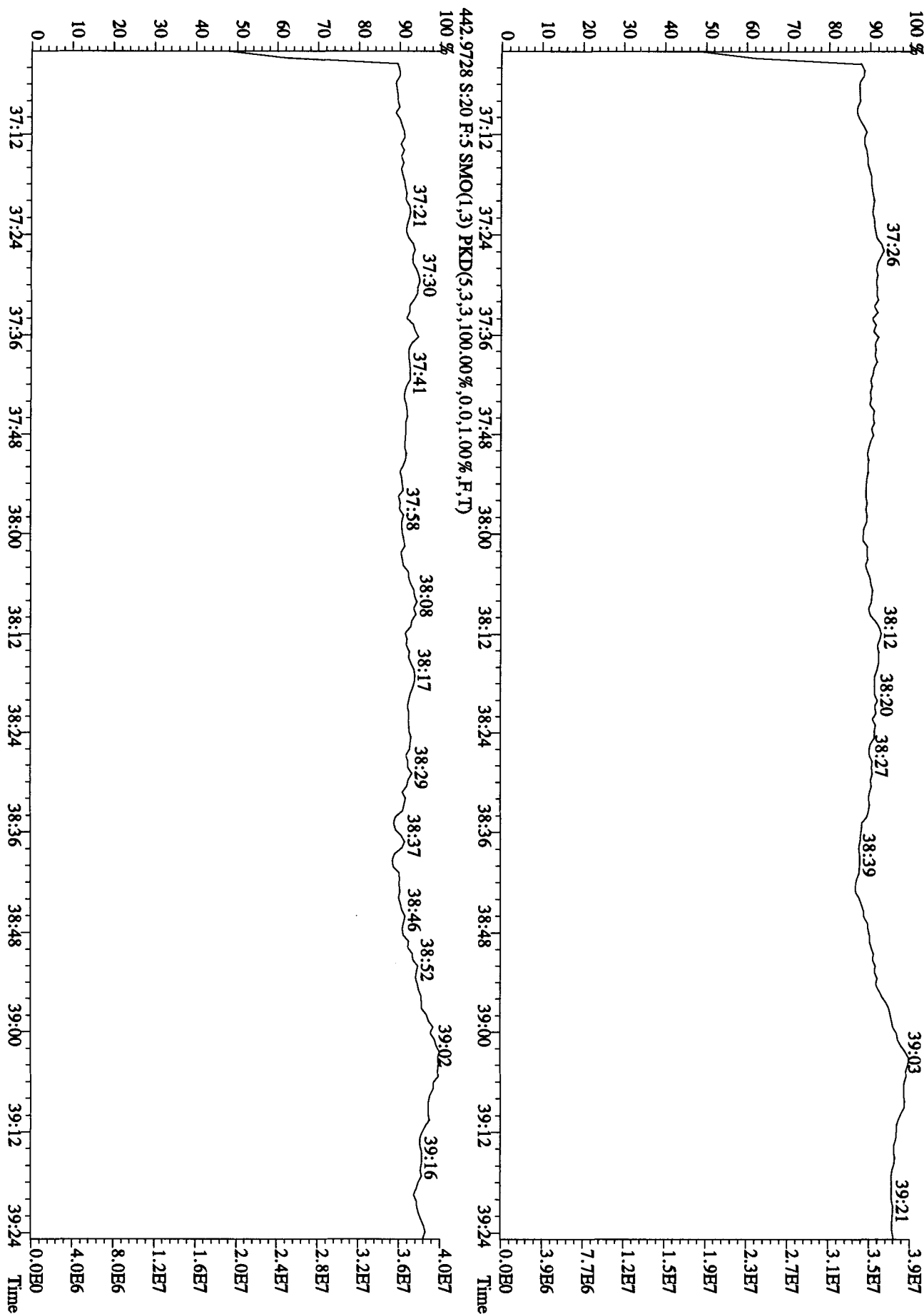
409.7789 S:20 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4072,0,1,00%,F,T)



479.7165 S:20 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,116,0,1,00%,F,T)



File:28OC104D5 #1-193 Acq:28-OCT-2010 23:43:55 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#20 Text:L8V09-1-AD :G0J210484-1IDCS Exp:DIOXINRES
 454.9728 S:20 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L8VH6-1-AA Sample text: L8VH6-1-AA :G0J210484-11 RI
 Run #15 Filename: 28OC104D5 S: 33 I: 1 Results: 28oc104d5to9
 Acquired: 29-OCT-10 09:24:22 Processed: 29-OCT-10 10:54:46
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

V8 9.10.10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	71756800	0.78 y	20:03	-	42.97	-	-	n
13C-2,3,7,8-TCDF	74181900	0.81 y	19:26	1.23	3363.74	3.56	84.1	n
2,3,7,8-TCDF	12454190	0.78 y	19:29	0.99	675.25	3.86	-	n
Total TCDF	75070786	0.75 y	16:39	0.99	4070.26 <i>4066.80</i>	3.86	-	n
13C-2,3,7,8-TCDD	57908300	0.79 y	20:16	0.91	3566.67	7.52	89.2	n
2,3,7,8-TCDD	173200	0.80 y	20:16	0.98	12.16	1.87	-	y
Total TCDD	5231084	0.74 y	17:42	0.98	357.41 <i>360.62</i>	1.87	-	y
37Cl-2,3,7,8-TCDD	32097800	1.00 y	20:17	1.33	1671.97	3.14	104.5	n
13C-1,2,3,7,8-PeCDF	58174200	1.52 y	25:20	0.88	3701.68	4.16	92.5	n
1,2,3,7,8-PeCDF	6827790	1.40 y	25:21	1.08	436.05	13.16	-	n
2,3,4,7,8-PeCDF	3598460	1.61 y	26:54	1.05	236.64	13.55	-	n
Total F2 PeCDF	53238476	1.43 y	23:30	1.06	3446.80 <i>3643.84</i>	13.35	-	n
Total F1 PeCDF	3972916	0.83 n	19:08	1.06	297.44 <i>2.53</i>	2.53	-	n
13C-1,2,3,7,8-PeCDD	41740700	1.54 y	27:44	0.66	3521.04	2.90	88.0	n
1,2,3,7,8-PeCDD	345299	1.64 y	27:45	0.93	35.76	3.83	-	n
Total PeCDD	3872843	1.51 y	23:58	0.93	401.03 <i>400.23</i>	3.83	-	n
13C-1,2,3,7,8,9-HxCDD	48592200	1.32 y	33:22	-	41.04	-	-	n
13C-1,2,3,4,7,8-HxCDF	40043500	0.51 y	32:17	1.04	3154.99	3.74	78.9	n
1,2,3,4,7,8-HxCDF	10010540	1.11 y	32:17	1.22	821.51	18.92	-	y
1,2,3,6,7,8-HxCDF	9111360	1.16 y	32:24	1.28	710.15	17.96	-	n
2,3,4,6,7,8-HxCDF	2143450	1.09 y	32:54	1.23	173.59	18.67	-	y
1,2,3,7,8,9-HxCDF	1045949	1.19 y	33:33	1.10	95.14	20.97	-	y
Total HxCDF	59401474	1.16 y	31:04	1.21	4868.41	19.07	-	y
13C-1,2,3,6,7,8-HxCDD	39065300	1.29 y	33:07	0.83	3870.73	0.68	96.8	n
1,2,3,4,7,8-HxCDD	248197	1.18 y	33:03	1.04	24.50	2.97	-	y
1,2,3,6,7,8-HxCDD	529950	1.16 y	33:08	1.16	46.67	2.65	-	y
1,2,3,7,8,9-HxCDD	459795	1.11 y	33:22	1.18	39.84	2.61	-	y
Total HxCDD	3583142	1.20 y	31:47	1.13	324.04	2.73	-	y
13C-1,2,3,4,6,7,8-HpCDF	37188300	0.41 y	34:53	0.91	3363.94	13.95	84.1	n
1,2,3,4,6,7,8-HpCDF	29802700	1.04 y	34:54	1.35	2381.97	7.26	-	n
1,2,3,4,7,8,9-HpCDF	9747870	1.07 y	36:03	1.09	958.89	8.94	-	n
Total HpCDF	56496623	1.04 y	34:54	1.22	4825.38 <i>4829.89</i>	8.02	-	n
13C-1,2,3,4,6,7,8-HpCDD	36374400	1.07 y	35:42	0.83	3622.35	4.81	90.6	n
1,2,3,4,6,7,8-HpCDD	1662789	1.02 y	35:43	1.07	170.62	3.10	-	n
Total HpCDD	2603913	0.97 y	35:08	1.07	267.19 <i>261.80</i>	3.10	-	n
13C-OCDD	50147000	0.86 y	38:16	0.62	6659.14	5.75	83.2	n
OCDF	51521900	0.87 y	38:23	1.37	5998.22	10.98	-	n

OCDD 1495921 0.92 y 38:16 1.20

198.98 ✓ BT 4.28

- n

Run text: L8VH6-1-AA Sample text: L8VH6-1-AA :G0J210484-11 RI
 Run #15 Filename: 28OC104D5 S: 33 I: 1 Results: 28OC104D5TO9
 Acquired: 29-OCT-10 09:24:22 Processed: 29-OCT-10 10:54:46
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	71756774	0.78 y	20:03	-	42.969	-	-	n
13C-2,3,7,8-TCDF	74181930	0.81 y	19:26	1.23	3363.738	3.564	84.1	n
2,3,7,8-TCDF	12454189	0.78 y	19:29	0.99	675.253 ✓	3.858	-	n
Total TCDF	75070783	0.75 y	16:39	0.99	4070.261	3.858	-	n
13C-2,3,7,8-TCDD	57908386	0.79 y	20:16	0.91	3566.673 ✓	7.521	89.2	n
2,3,7,8-TCDD	170231	0.94 n	20:16	0.98	11.956 ✓	1.874	-	n
Total TCDD	5002138	0.74 y	17:42	0.98	351.329 360.62 ✓	1.874	-	n
37C1-2,3,7,8-TCDD	32097854	1.00 y	20:17	1.33	1671.969	3.144	104.5	n
13C-1,2,3,7,8-PeCDF	58174212	1.52 y	25:20	0.88	3701.680	4.160	92.5	n
1,2,3,7,8-PeCDF	6827783	1.40 y	25:21	1.08	436.054 ✓	13.158	-	n
2,3,4,7,8-PeCDF	3598451	1.61 y	26:54	1.05	236.638 ✓	13.549	-	n
Total F2 PeCDF	53238457	1.43 y	23:30	1.06	3446.883	13.350	-	n
Total F1 PeCDF	3942452	0.83 n	19:08	1.06	255.467 369.84 ✓	8.526	-	n
13C-1,2,3,7,8-PeCDD	41740713	1.54 y	27:44	0.66	3521.037 ✓	2.895	88.0	n
1,2,3,7,8-PeCDD	345299	1.64 y	27:45	0.93	35.755 ✓	3.831	-	n
Total PeCDD	3872843	1.51 y	23:58	0.93	401.026 400.23 ✓	3.831	-	n
13C-1,2,3,7,8,9-HxCDD	48592150	1.32 y	33:22	-	41.041	-	-	n
13C-1,2,3,4,7,8-HxCDF	40043572	0.51 y	32:17	1.04	3154.999	3.739	78.9	n
1,2,3,4,7,8-HxCDF	12341806	1.11 y	32:17	1.22	1012.816	18.915	-	n
1,2,3,6,7,8-HxCDF	9111356	1.16 y	32:24	1.28	710.145	17.965	-	n
2,3,4,6,7,8-HxCDF	4498365	1.10 y	32:52	1.23	364.311	18.667	-	n
1,2,3,7,8,9-HxCDF	2864061	1.15 y	33:37	1.10	260.520	20.966	-	n
Total HxCDF	59223437	1.16 y	31:04	1.21	4863.066	19.066	-	n
13C-1,2,3,6,7,8-HxCDD	39065282	1.29 y	33:07	0.83	3870.732	0.677	96.8	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.04	*	2.972	-	n
1,2,3,6,7,8-HxCDD	515032	0.80 n	33:08	1.16	45.352	2.651	-	n
1,2,3,7,8,9-HxCDD	547181	1.07 y	33:22	1.18	47.412	2.609	-	n
Total HxCDD	3344923	1.20 y	31:47	1.13	300.115	2.735	-	n
13C-1,2,3,4,6,7,8-HpCDF	37188301	0.41 y	34:53	0.91	3363.939 ✓	13.954	84.1	n
1,2,3,4,6,7,8-HpCDF	29802658	1.04 y	34:54	1.35	2381.969 ✓	7.264	-	n
1,2,3,4,7,8,9-HpCDF	9747875	1.07 y	36:03	1.09	958.890 ✓	8.941	-	n
Total HpCDF	56496588	1.04 y	34:54	1.22	4835.381 4829.89 ✓	8.016	-	n
13C-1,2,3,4,6,7,8-HpCDD	36374400	1.07 y	35:42	0.83	3622.357 ✓	4.808	90.6	n
1,2,3,4,6,7,8-HpCDD	1662789	1.02 y	35:43	1.07	170.620 ✓	3.096	-	n
Total HpCDD	2603913	0.97 y	35:08	1.07	267.189 261.82 ✓	3.096	-	n
13C-OCDD	50147026	0.86 y	38:16	0.62	6659.148	5.752	83.2	n

OCDF	51521826	0.87 y	38:23	1.37	5998.204	10.982	-	n
OCDD	1495921	0.92 y	38:16	1.20	198.984	4.275	-	n

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:18
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 2035.131 of which 337.627 named and 1697.504 unnamed
 Conc: 4070.261 of which 675.253 named and 3395.008 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:39	0.751 y	153.859	1217124 1620608	193.825 115.776	y	n
	2	17:03	0.778 y	52.774	426055 547299	60.989 37.820	y	n
	3	17:13	0.719 y	50.836	392114 545493	55.658 37.734	y	n
	4	17:32	0.778 y	743.297	5998320 7710839	779.855 454.407	y	n
	5	17:48	0.787 y	342.746	2784553 3536956	303.762 179.424	y	n
	6	18:09	0.778 y	289.989	2340491 3007990	196.903 117.168	y	n
	7	18:24	0.757 y	353.246	2806776 3708406	386.490 224.720	y	n
	8	18:42	0.778 y	342.757	2765843 3555871	279.913 170.363	y	n
	9	18:51	0.779 y	352.377	2845861 3653283	363.009 207.001	y	n
	10	19:01	0.817 y	406.727	3373195 4128366	464.037 256.897	y	n
	11	19:16	0.769 y	86.253	691433 899400	76.058 42.995	y	n
2,3,7,8-TCDF	12	19:29	0.781 y	675.253	5461843 6992347	597.129 342.432	y	n
	13	19:57	0.782 y	86.195	697444 892317	87.922 53.894	y	n
	14	20:15	0.709 y	54.359	416064 586510	41.582 29.028	y	n
	15	20:30	0.865 y	26.179	223991 258841	27.436 14.676	y	n

4066.80

16	21:35	0.804	y	49.948	410711	45.251	y	n
					510526	26.569	y	n
17	21:56	0.519	n	2.549	20455	3.463	y	n
					39378	1.963	n	n
18	22:34	0.362	n	0.916	7352	1.541	n	n
					20332	1.274	n	n

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:14
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 175.665 of which 5.978 named and 169.686 unnamed
 Conc: 351.329 of which 11.956 named and 339.373 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	17:42	0.737 y	65.489	395526 536884	93.587 158.374	y	n
	2	18:02	0.811 y	120.091	765475 944346	177.112 273.303	y	n
	3	18:18	0.612 n	9.192	56936 93088	10.678 25.797	y	n
	4	18:58	0.835 y	47.462	307441 368309	59.402 84.100	y	n
	5	19:14	0.722 y	27.358	163376 226147	19.076 32.701	y	n
	6	19:40	0.928 n	11.028	82363 88712	17.003 29.777	y	n
	7	20:08	1.145 n	34.315	316166 276028	50.932 66.311	y	n
2,3,7,8-TCDD	8	20:16	0.945 n	11.956	90858 96176	17.174 22.064	y	n
	9	20:28	0.919 n	9.264	68513 74520	14.275 14.268	y	n
	10	20:40	0.845 y	10.572	68953 81571	12.398 20.780	y	n
	11	20:58	0.733 y	2.165	13042 17781	4.879 4.719	y	n
	12	21:06	0.901 n	0.889	6446 7154	1.520 2.144	n	n
	13	22:22	0.723 y	0.941	5620 7778	1.941 3.520	n	n
	14	23:00	1.090 n	0.606	5318 4877	2.122 1.856	n	n

Handwritten: 100% AT

Handwritten: noise.

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? yes #Hom:16
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d5

Amount: 183.70 of which 6.08 named and 177.62 unnamed
 Conc: 367.41 of which 12.16 named and 355.25 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	17:42	0.74 y	65.49	395526 536884	93.6 158.4	y	n
	2	18:02	0.81 y	120.09	765475 944346	177.1 273.3	y	n
	3	18:18	0.61 n	9.19	56936 93089	10.7 25.8	y	n
	4	18:58	0.83 y	47.46	307441 368309	59.4 84.1	y	n
	5	19:14	0.72 y	27.36	163376 226147	19.1 32.7	y	n
	6	19:40	0.93 n	11.03	82363 88712	17.0 29.8	y	n
	7	20:05	0.54 n	12.16	75290 140466	13.0 34.7	y	y
	8	20:08	0.85 y	35.84	234247 276028	50.2 66.3	y	y
2,3,7,8-TCDD	9	20:16	0.80 y	12.16	77024 96176	16.4 22.1	y	y
	10	20:28	0.92 n	9.26	68513 74520	14.3 14.3	y	n
	11	20:40	0.85 y	10.57	68953 81571	12.4 20.8	y	n
	12	20:58	0.73 y	2.16	13041 17781	4.9 4.7	y	n
	13	21:06	0.90 n	0.89	6446 7154	1.5 2.1	n	n
	14	21:34	0.92 n	2.19	16134 17627	3.5 3.0	y	n
	15	22:22	0.72 y	0.94	5620 7778	1.9 3.5	n	n

NA

MS 60.62

TCDD

16 23:00 1.09 n

~~0.61~~

5318
4878

2.1 n n
1.9 n y

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:14
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 1723.441 of which 336.346 named and 1387.095 unnamed
 Conc: 3446.882 of which 672.692 named and 2774.189 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:30	1.425 y	232.529	2108748 1479711	52.076 68.936	y	n
	2	23:44	1.469 y	1007.101	9247373 6294547	171.992 225.517	y	n
	3	24:02	1.479 y	147.435	1357541 917718	26.600 36.429	y	n
	4	24:20	1.461 y	133.934	1227138 839776	21.841 31.476	y	n
	5	24:39	1.576 y	124.263	1173214 744452	31.260 37.973	y	n
	6	24:47	1.537 y	374.630	3502300 2279123	67.797 85.510	y	n
	7	25:11	1.642 y	190.471	1827016 1112404	43.010 50.386	y	n
1,2,3,7,8-PeCDF	8	25:21	1.395 y	436.054	3977526 2850257	84.889 115.333	y	n
	9	25:41	1.514 y	96.824	899785 594428	18.966 22.962	y	n
	10	25:59	1.413 y	253.934	2294507 1624293	39.848 53.142	y	n
2,3,4,7,8-PeCDF	11	26:54	1.611 y	236.638	2220295 1378156	39.976 47.825	y	n
	12	27:19	1.555 y	126.428	1187395 763678	14.906 18.699	y	n
	13	27:56	1.396 y	44.643	401400 287541	8.141 10.605	y	n
	14	29:14	1.252 n	41.999	393966 314740	7.081 11.026	y	n

*DFC V8
10.30.6*

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:8
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 127.734 of which * named and 127.734 unnamed
Conc: 255.467 of which * named and 255.467 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 8 rows of data with handwritten annotations including a circle around '246.962' and a vertical line through the 'Conc.' column.

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:13
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 200.513 of which 17.878 named and 182.635 unnamed
Conc: 401.026 of which 35.755 named and 365.271 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 3 rows of data with handwritten annotations including a circle around '95.685' and a vertical line through the 'Conc.' column.

Handwritten note: Yes. 27

					18937	7.736	y	n	
4	25:22	1.440	y	96.780	551663	65.586	y	n	
					382978	147.742	y	n	
5	25:37	1.529	y	14.224	83055	9.030	y	n	
					54311	16.203	y	n	
6	26:01	1.518	y	87.182	507583	57.444	y	n	
					334368	109.310	y	n	
7	26:24	1.067	n	7.678	45073	6.740	y	n	
					42245	17.086	y	n	
8	26:34	1.161	n	9.269	54409	6.193	y	n	
					46881	14.015	y	n	
9	27:02	1.629	y	19.139	114512	12.107	y	n	
					70317	25.731	y	n	
10	27:19	2.045	n	8.577	66439	7.028	y	n	
					32481	11.727	y	n	
1,2,3,7,8-PeCDD	11	27:45	1.636	y	35.755	214310	25.743	y	n
					130989	42.960	y	n	
	12	28:06	1.236	n	9.654	56672	5.501	y	n
					45859	14.112	y	n	
	13	28:57	1.602	y	11.283	67078	7.472	y	n
					41882	10.541	y	n	

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 2431.533 of which 1173.896 named and 1257.637 unnamed
Conc: 4863.066 of which 2347.793 named and 2515.274 unnamed

Table with columns: Name, #, R.T., Ratio, Conc., Area, S/N, >?, Mod?. Contains 12 rows of data for various HxCDF samples.

Handwritten note: see page 7

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 150.058 of which 46.382 named and 103.676 unnamed

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:15
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount: 2434.21 of which 900.19 named and 1534.01 unnamed
 Conc: 4868.41 of which 1800.39 named and 3068.03 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:04	1.16 y	609.66	3954240 3416040	84.9 76.9	y	n
	2	31:17	1.14 y	1006.06	6474410 5688160	132.8 125.3	y	n
	3	31:29	1.11 y	66.81	424977 382654	8.7 8.2	y	n
	4	31:40	1.21 y	181.71	1204020 992669	27.2 23.5	y	n
	5	31:52	1.15 y	127.60	824857 717766	20.5 18.5	y	n
	6	32:04	1.46 n	7.72	60815 41663	1.7 1.2	n	n
	7	32:15	1.10 y	204.13	1290480 1177360	59.1 56.9	y	y
1,2,3,4,7,8-HxCDF	8	32:17	1.11 y	821.51	5264220 4746320	148.0 139.5	y	y
1,2,3,6,7,8-HxCDF	9	32:24	1.16 y	710.15	4886570 4224790	115.3 107.5	y	n
	10	32:31	1.13 y	262.93	1686290 1492340	42.5 38.6	y	n
	11	32:42	1.10 y	252.80	1598230 1457880	29.8 30.4	y	n
	12	32:52	1.09 y	198.47	1249210 1150180	36.5 34.0	y	y
2,3,4,6,7,8-HxCDF	13	32:54	1.09 y	173.59	1120230 1023220	29.9 29.1	y	y
1,2,3,7,8,9-HxCDF	14	33:33	1.19 y	95.14	567539 478410	18.4 15.0	y	y
	15	33:37	1.13 y	150.14	964881 850207	22.8 21.1	y	y

GA

Conc: 300.115 of which 92.764 named and 207.351 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:47	1.195 y	23.627	141622 118483	26.081 23.301	y y	n n
	2	32:18	1.208 y	100.161	603321 499342	113.571 102.507	y y	n n
	3	32:32	1.162 y	75.554	447044 384728	75.680 79.053	y y	n n
	4	32:40	1.836 n	6.698	60437 32920	9.020 5.313	y y	n n
1,2,3,6,7,8-HxCDD	5	33:08	0.803 n	45.352	285107 355060	56.271 46.333	y y	n n
1,2,3,7,8,9-HxCDD	6	33:22	1.074 y	47.412	283392 263790	52.902 50.096	y y	n n
	7	33:32	3.834 n	1.311	24701 6442	3.566 1.356	y n	n n

see pg 77

Totals Results TestAmerica West Sacramento Page 8 of 9

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:5
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 2417.691 of which 1670.430 named and 747.261 unnamed
Conc: 4835.381 of which 3340.860 named and 1494.522 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:54	1.037 y	2381.969	15175375 14627283	1187.67 824.039	y y	n n
	2	35:05	1.042 y	607.056	3511755 3371515	267.048 171.998	y y	n n
	3	35:13	1.070 y	881.977	5169988 4830555	371.624 250.582	y y	n n
1,2,3,4,7,8,9-HpCDF	4	36:03	1.074 y	958.890	5047481 4700394	338.317 226.105	y y	n n
	5	36:21	3.591 n	5.489	109581 30511	4.531 2.222	y n	n n

482 p. 89

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:8
 Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d5

Amount: 162.02 of which 55.50 named and 106.51 unnamed
 Conc: 324.04 of which 111.01 named and 213.03 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:47	1.20 y	23.63	141622 118483	26.1 23.3	y	n
	2	32:18	1.21 y	100.16	603321 499342	113.6 102.5	y	n
	3	32:32	1.16 y	75.55	447044 384728	75.7 79.1	y	n
	4	32:40	1.84 n	6.70	60438 32920	9.0 5.3	y	n
1,2,3,4,7,8-HxCDD	5	33:03	1.18 y	24.50	134235 113962	29.9 27.2	y	y
1,2,3,6,7,8-HxCDD	6	33:08	1.16 y	46.67	284068 245882	56.4 46.7	y	y
	7	33:20	1.07 y	6.99	39674 37246	16.0 17.0	y	y
1,2,3,7,8,9-HxCDD	8	33:22	1.11 y	39.84	241453 218342	53.0 50.4	y	y

7A

Run Text: L8VH6-1-AA

Sample text: L8VH6-1-AA :G0J210484-11 RI

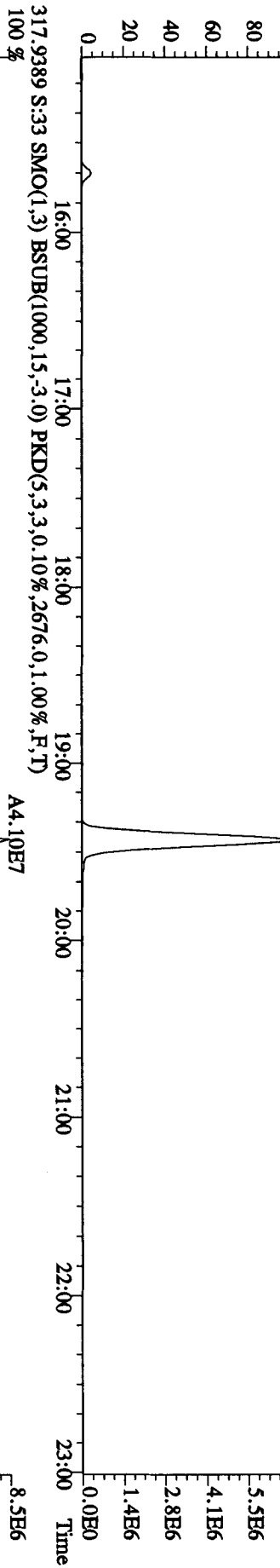
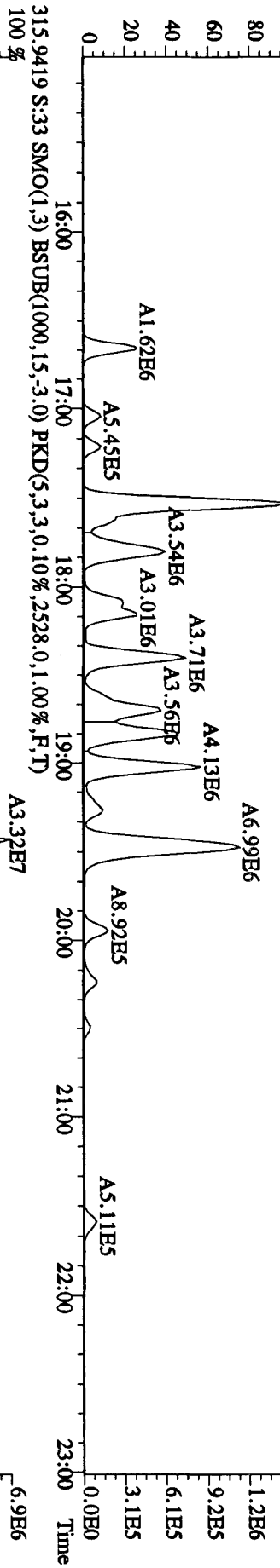
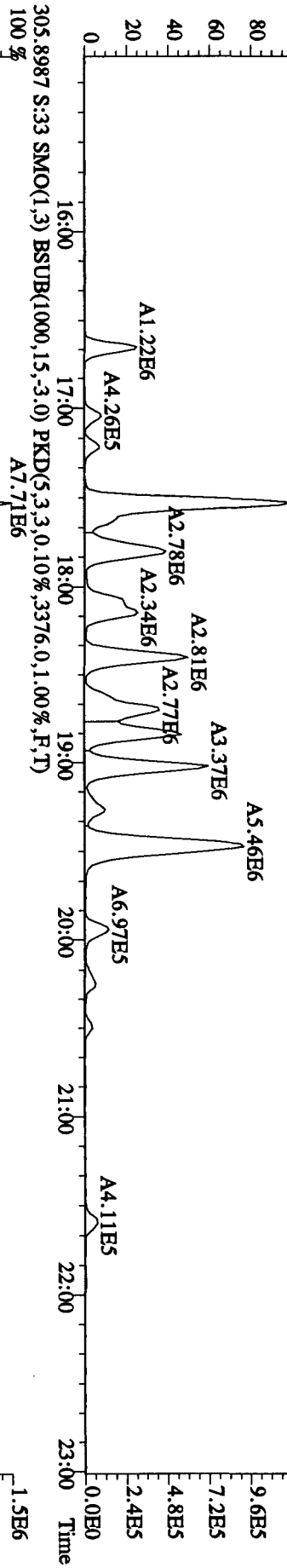
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
Run: 15 File: 28OC104D5 S:33 Acq:29-OCT-10 09:24:22
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 133.595 of which 85.310 named and 48.285 unnamed
Conc: 267.189 of which 170.620 named and 96.569 unnamed

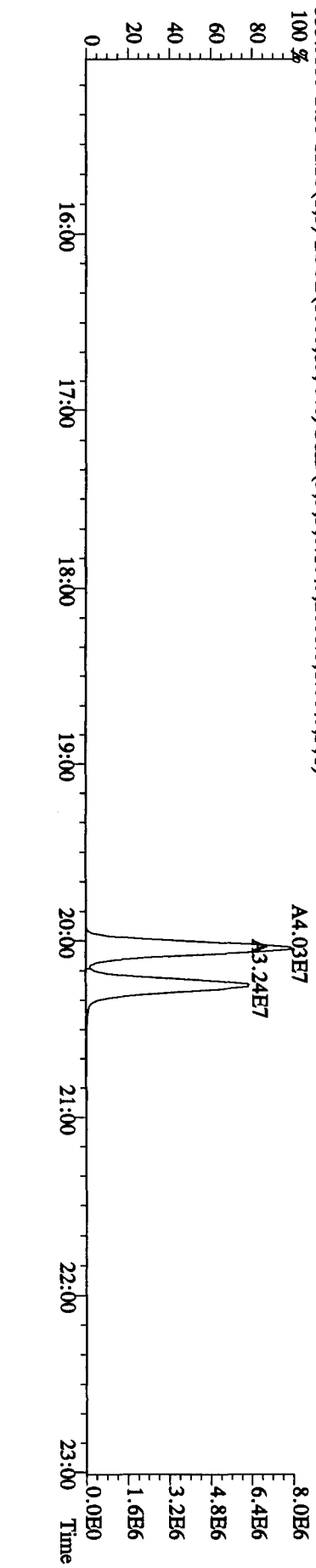
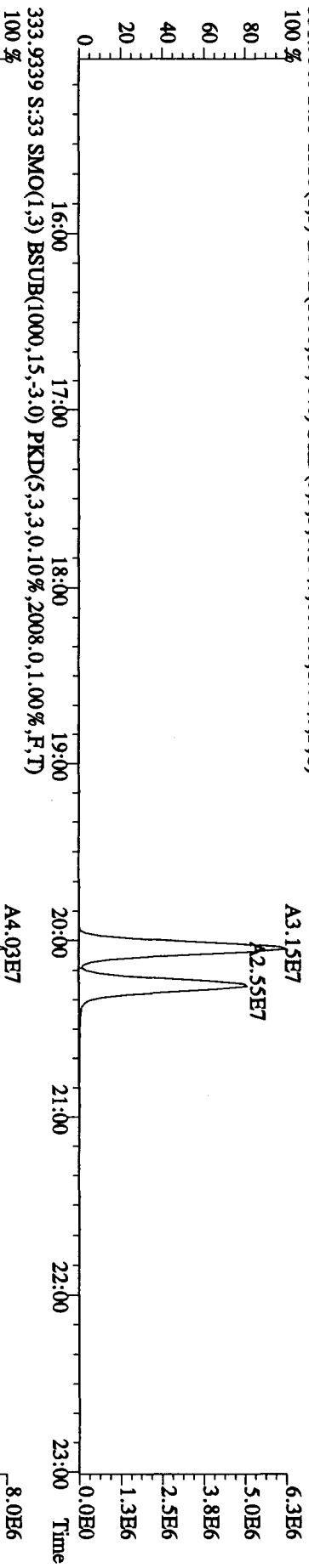
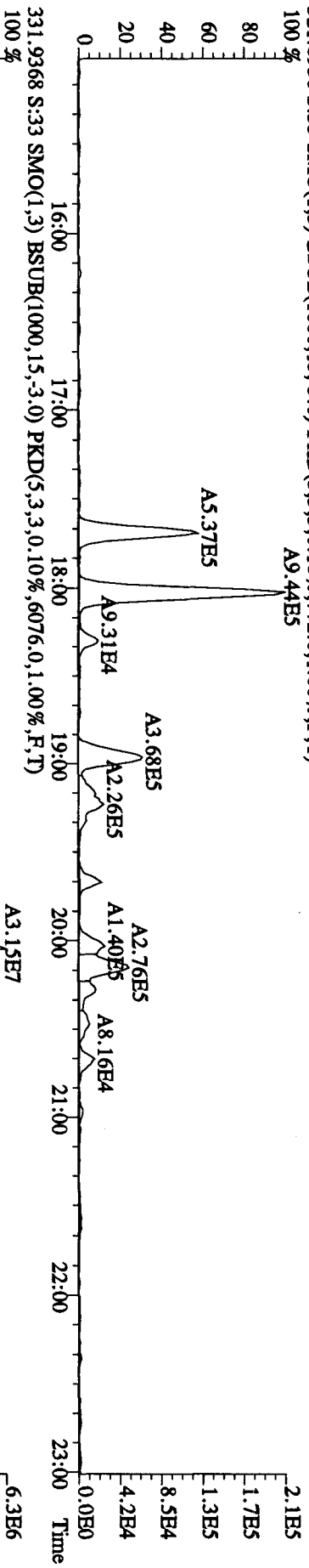
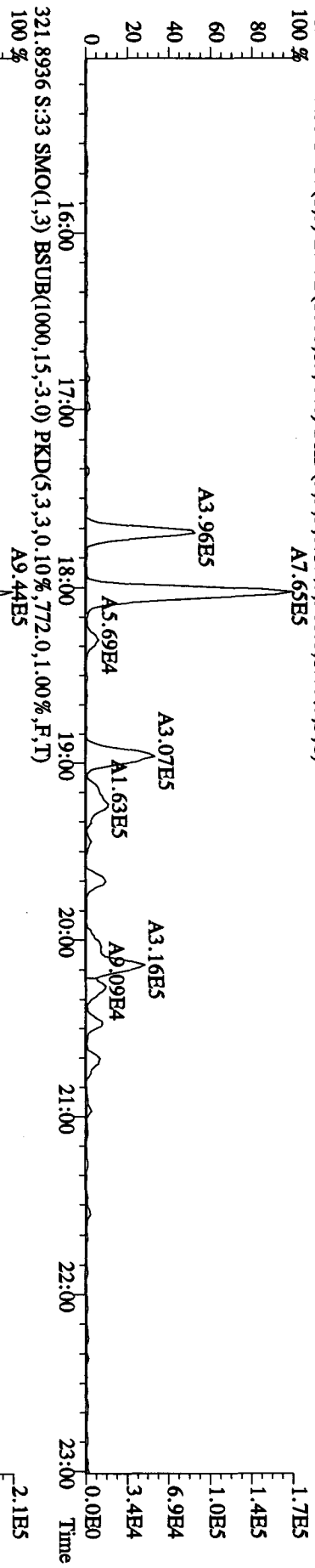
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	35:08	0.970 y	91.245	437883	77.854	y	n
					451352	120.875	y	n
1,2,3,4,6,7,8-HpCDD	2	35:43	1.024 y	170.620	841054	139.031	y	n
					821735	203.767	y	n
	3	36:02	1.474 n	5.324	37493	6.213	y	n
					25436	5.135	y	n

261.86

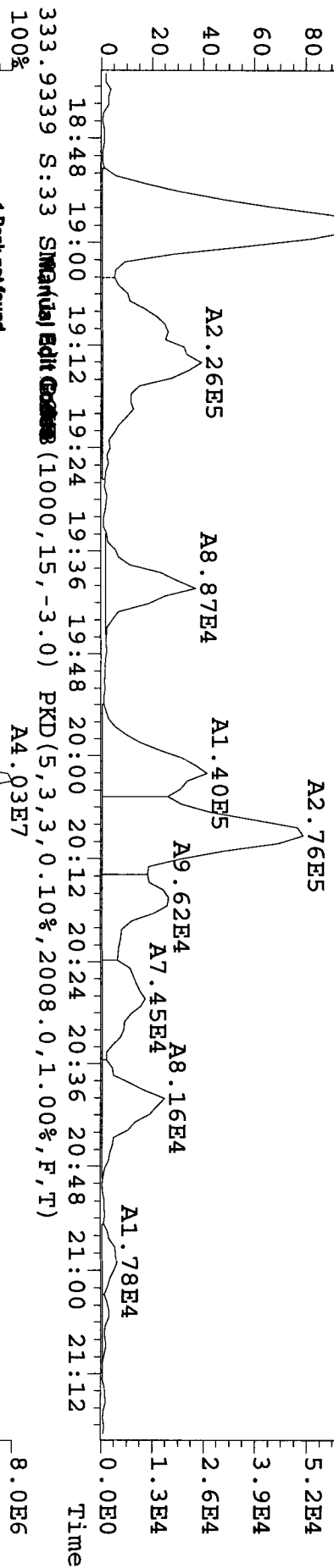
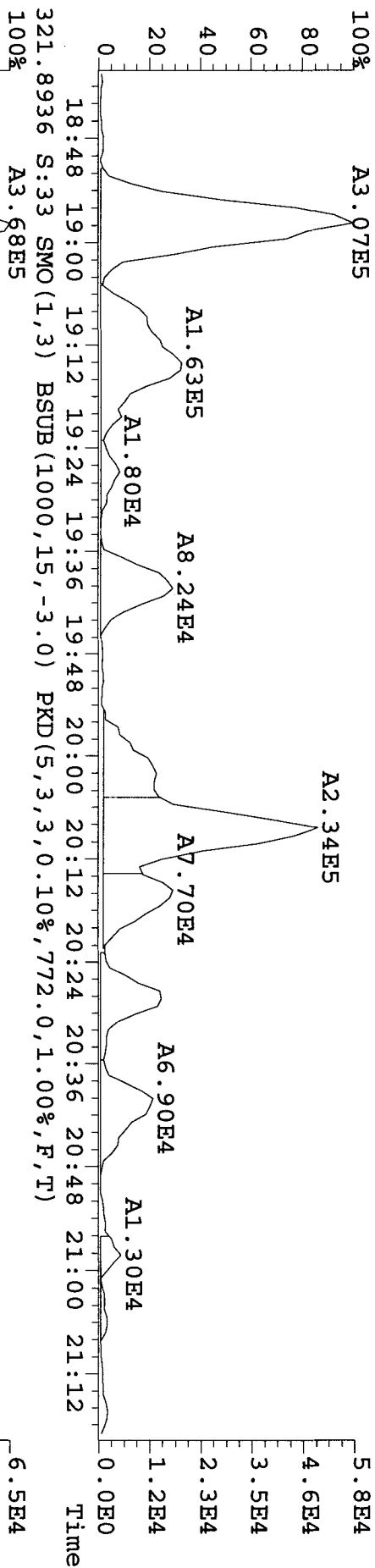
File:280C104D5 #1-530 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 303.9016 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)
 100%



File:280C104D5 #1-530 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 319.8965 S:3.3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)
 100 % A7.65E5



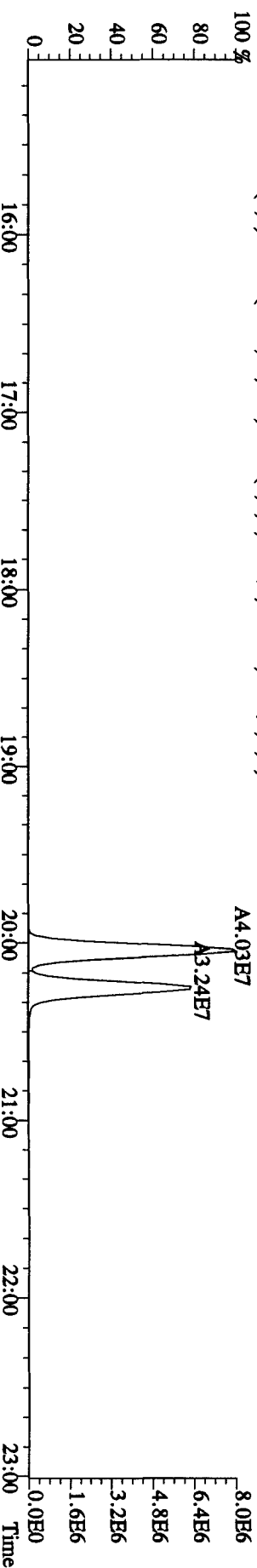
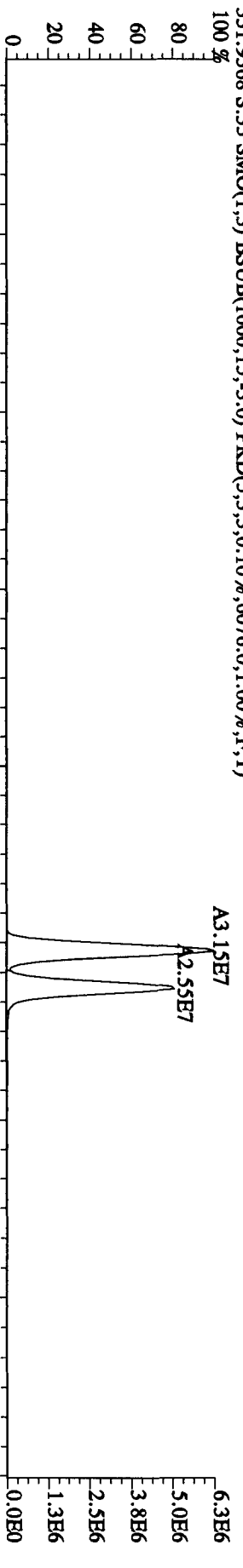
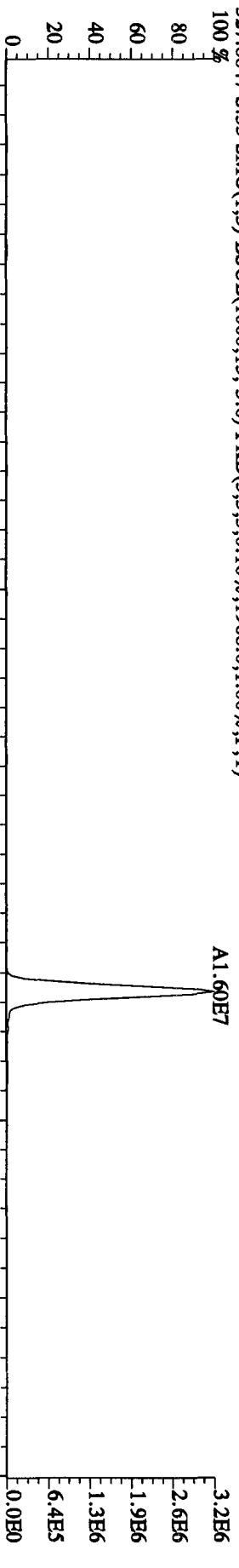
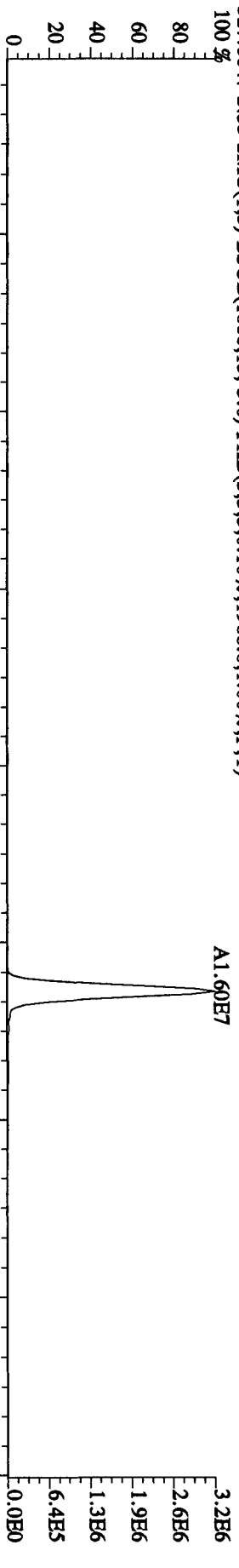
File: 280C104D5 #1-530 Acq: 29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text: L8VH6-1-AA : G0J210484-11 Exp: DIOXINRES
 319.8965 S: 33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)
 100% A3.07E5



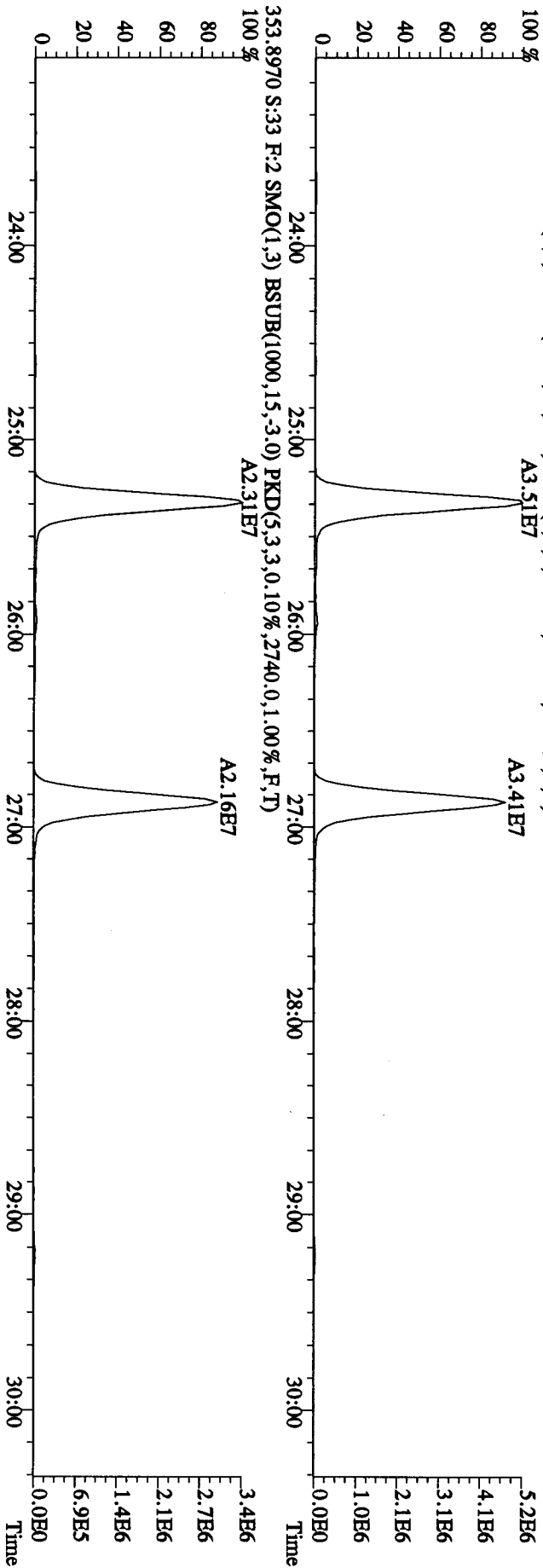
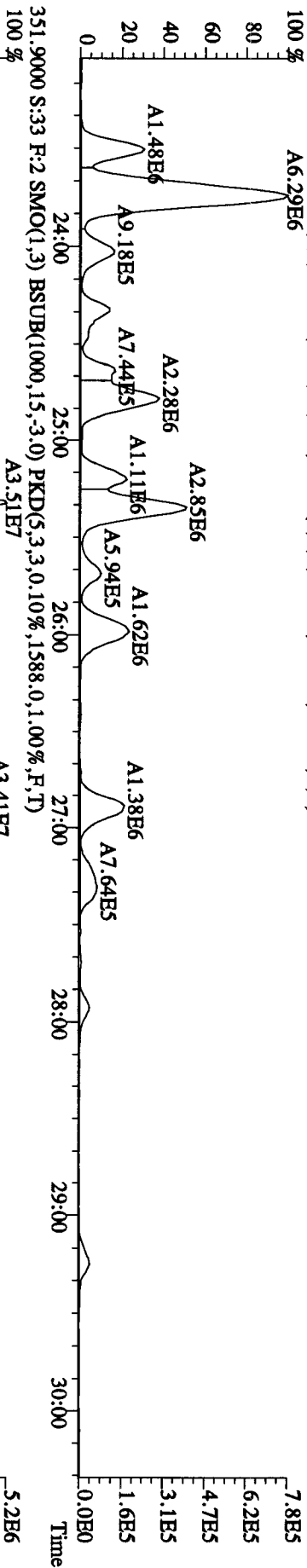
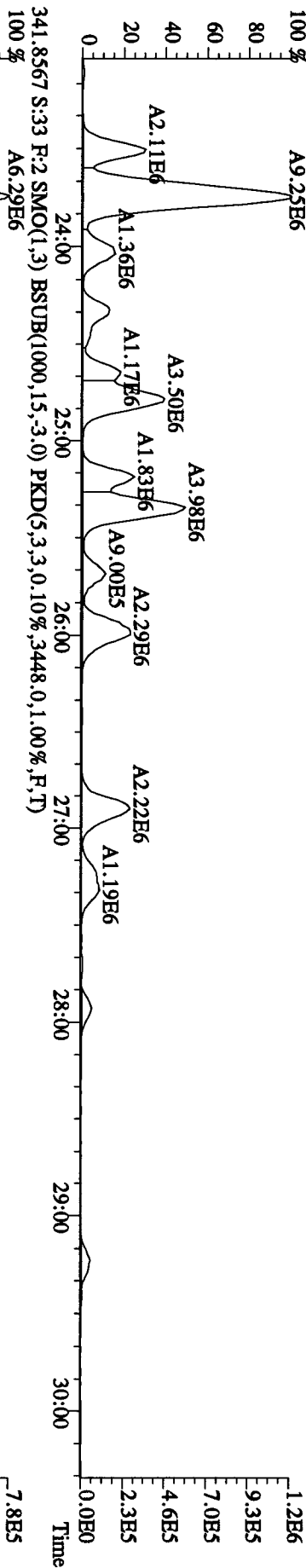
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst V.B. Date 10.30.10

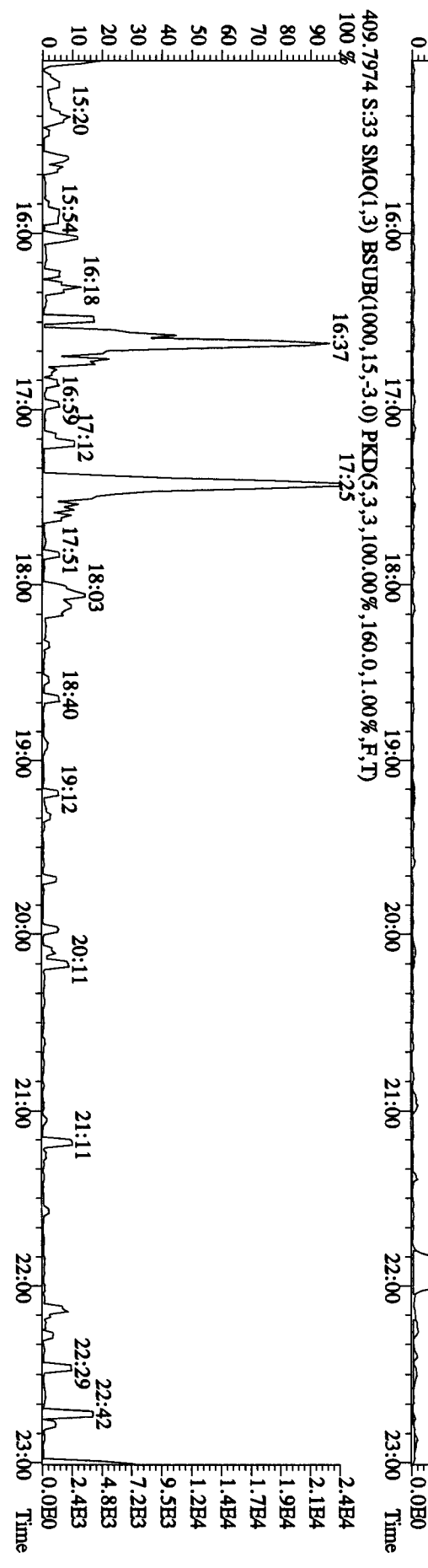
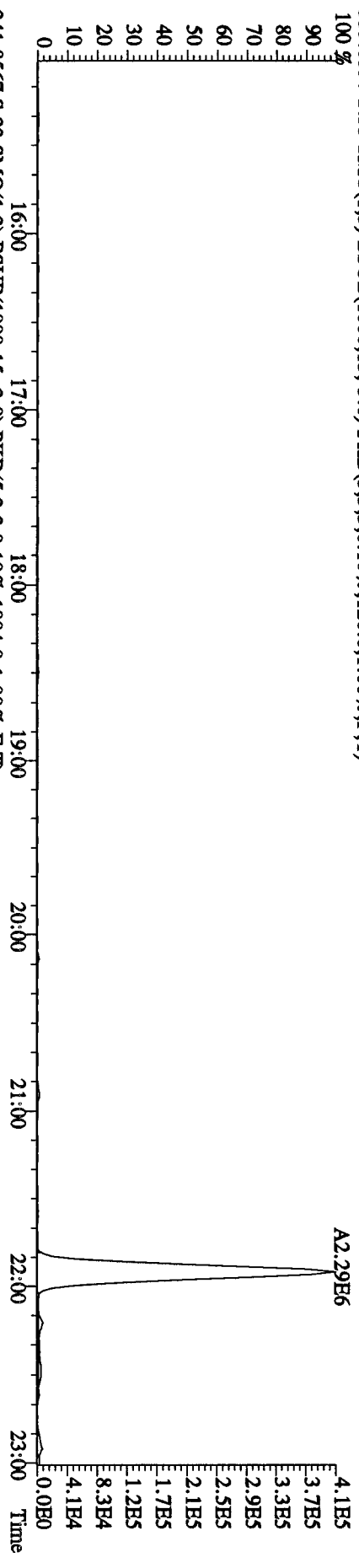
18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 20:36 20:48 21:00 21:12



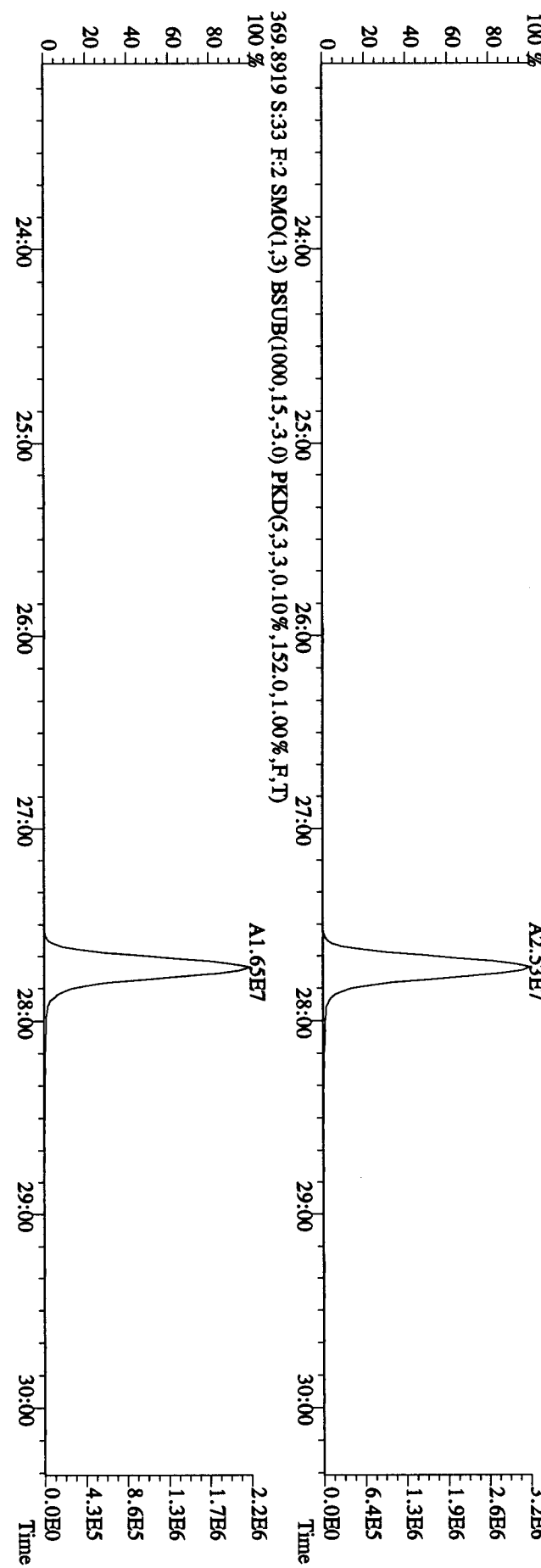
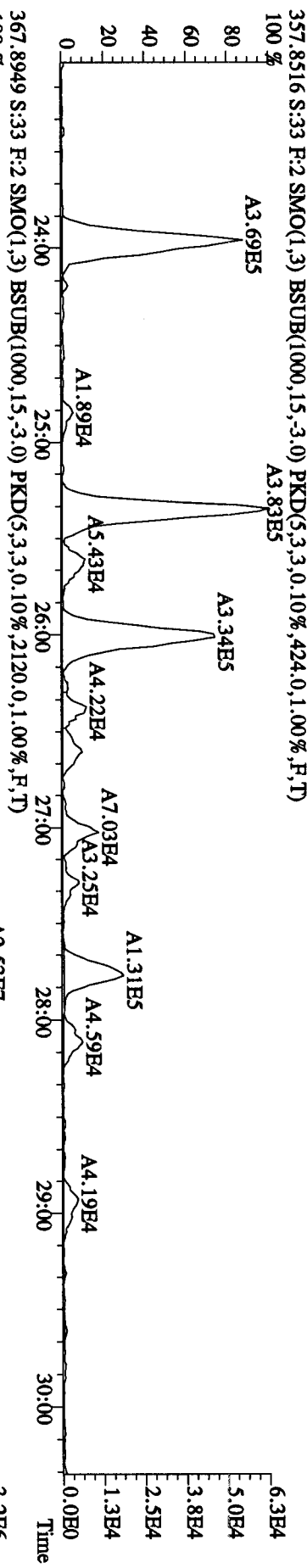
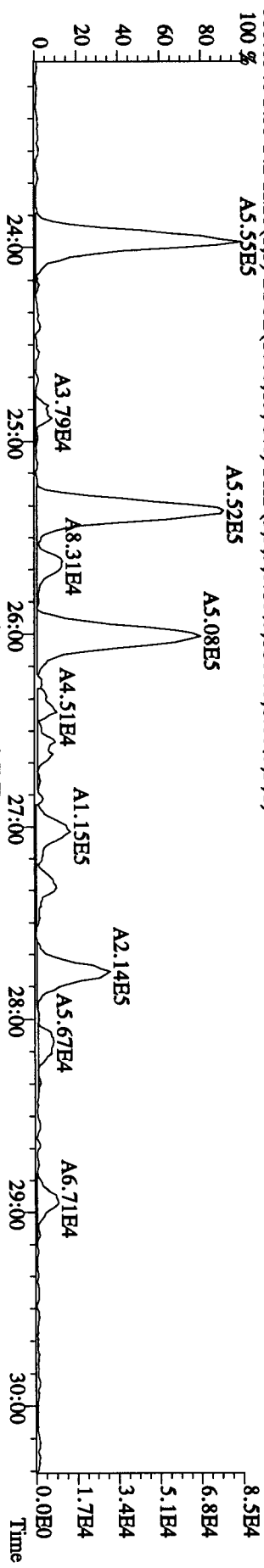
File:280C104D5 #1-470 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 339.8597 S:33 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6720,0,1,00%,F,T)

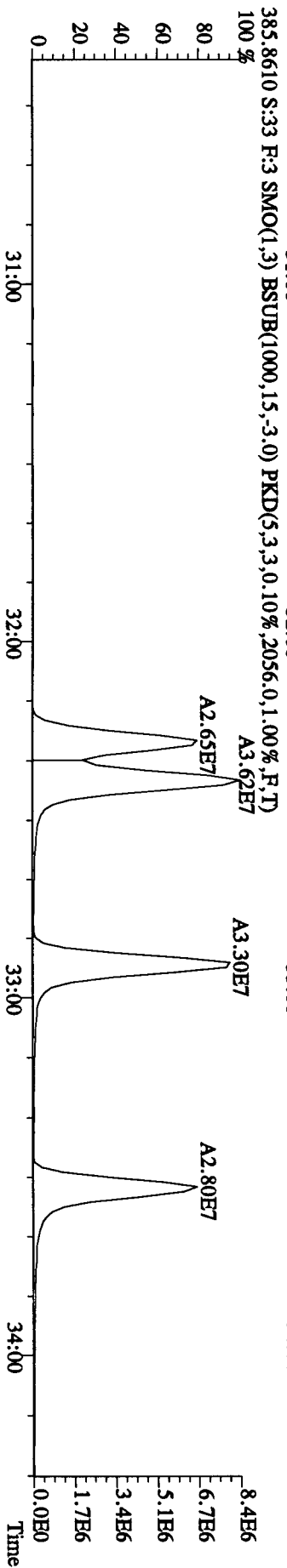
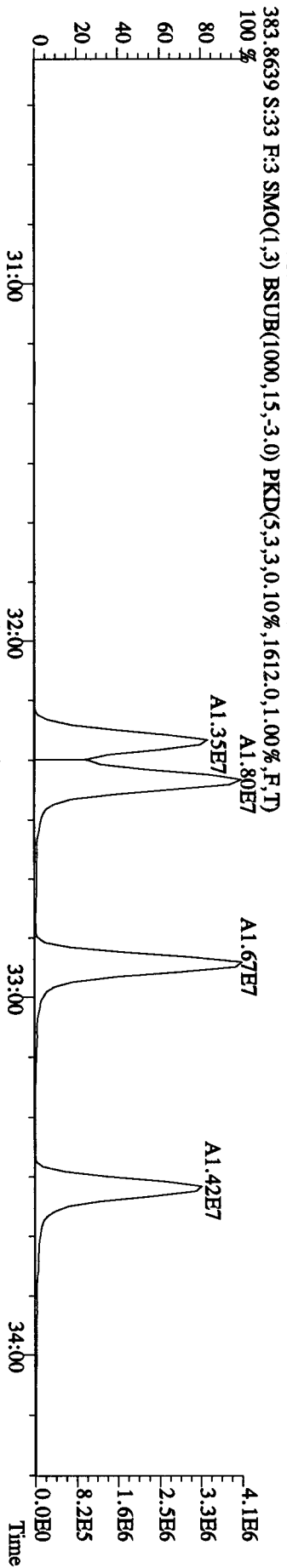
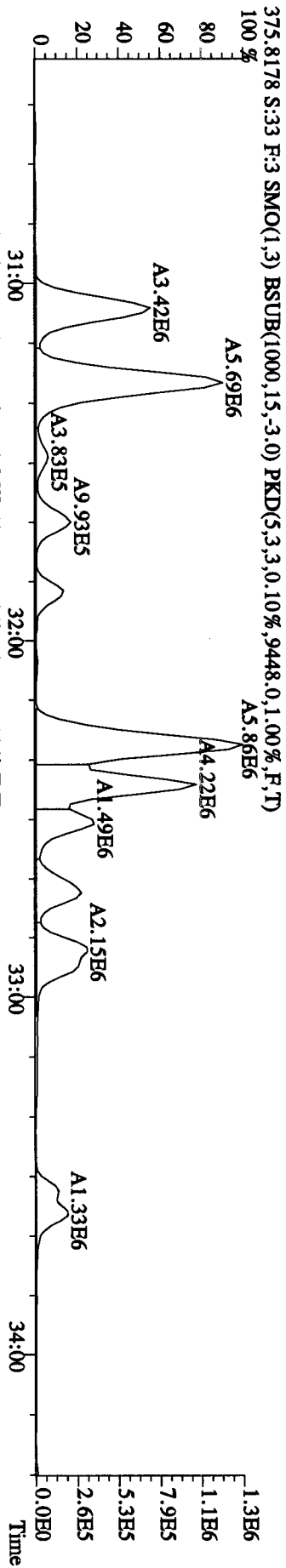
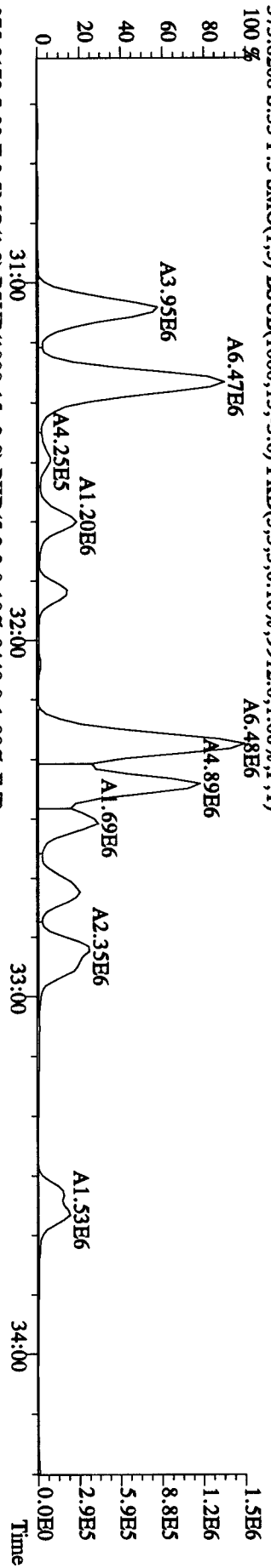


File:28OC104D5 #1-530 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 339.8597 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

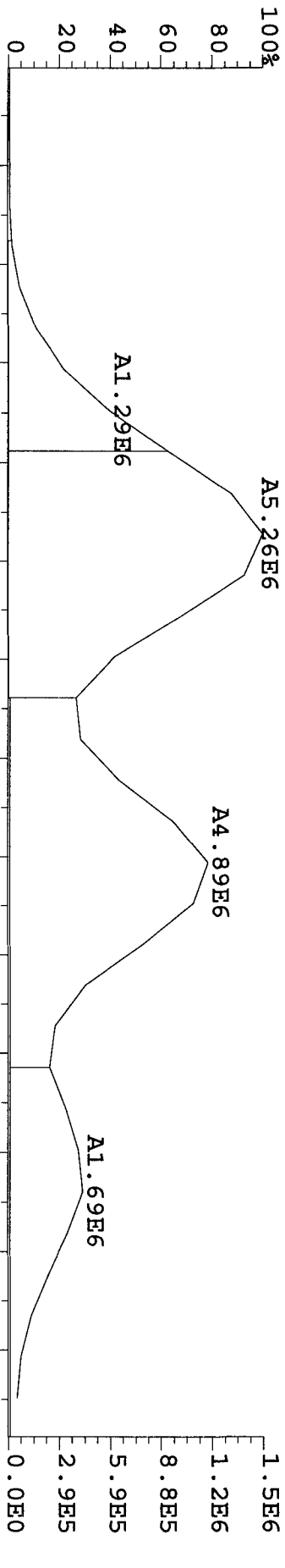


File:28OC104D5 #1-470 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 355.8546 S:33 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1168,0,1,00%,F,T)

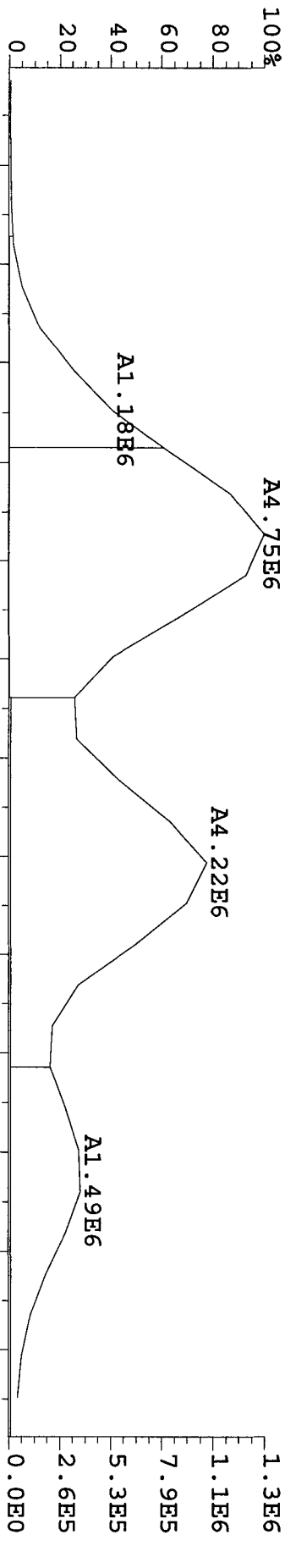




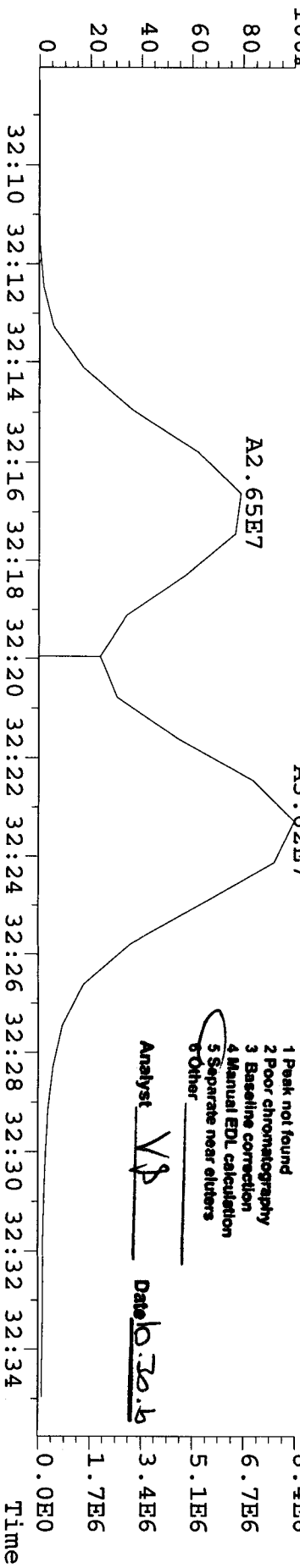
File:280C104D5 #1-286 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 Exp:DIOXINRES
 373.8208 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9912.0,1.00%,F,T)
 100%



375.8178 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9448.0,1.00%,F,T)
 100%



385.8610 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)
 100%



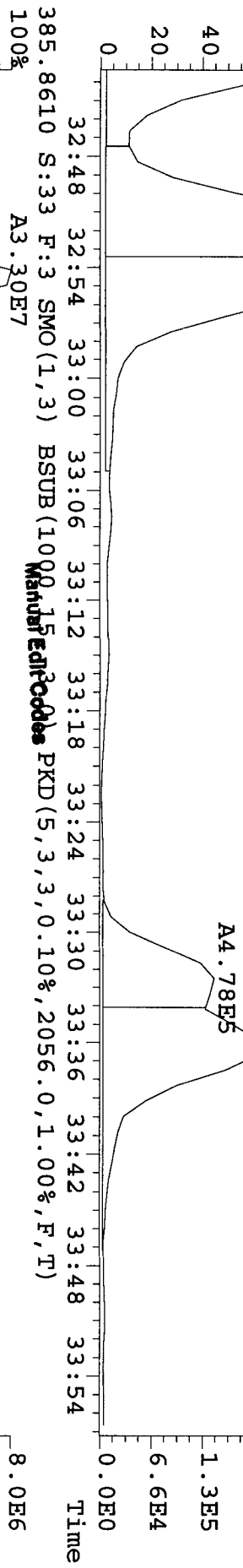
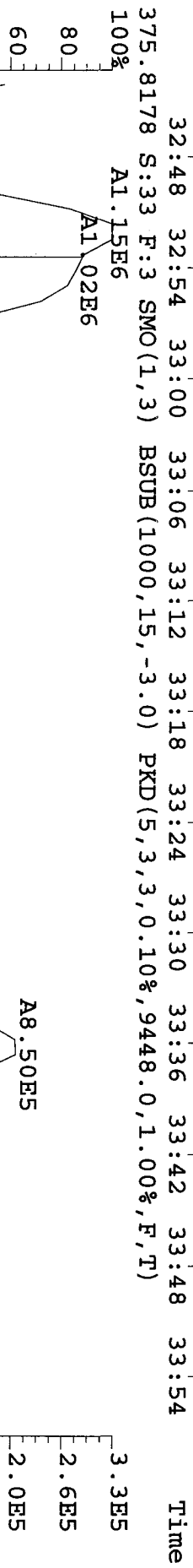
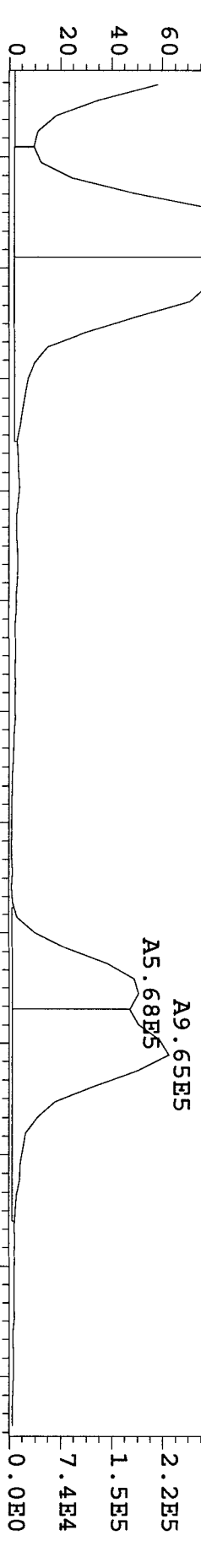
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VP Date 10.30.6

File: 280C104D5 #1-286 Acq: 29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate

Sample#33 Text: L8VH6-1-AA : G0J210484-11 Exp: DIOXINRES

373.8208 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9912.0,1.00%,F,T)

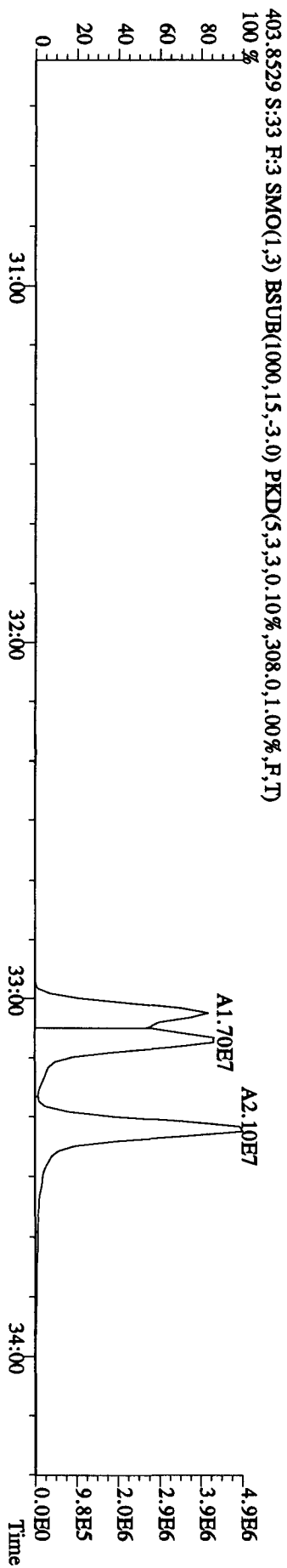
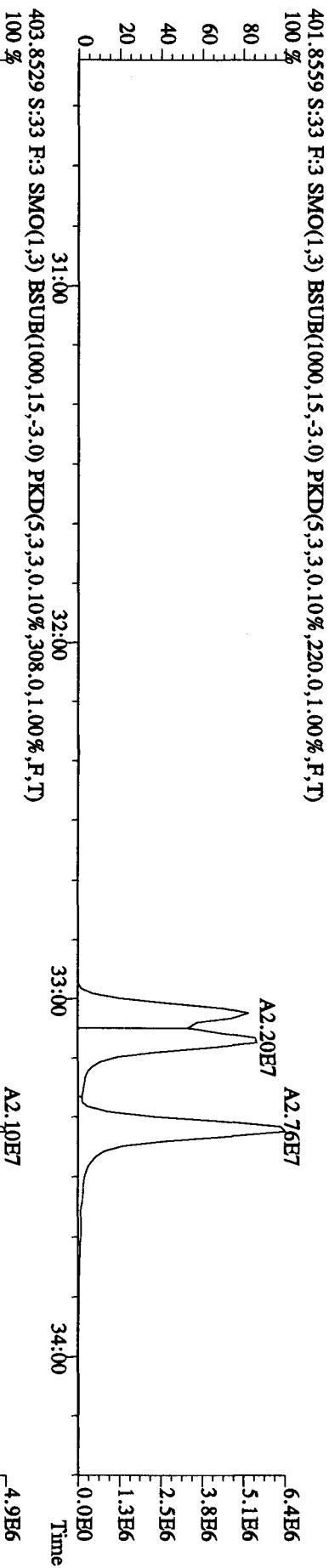
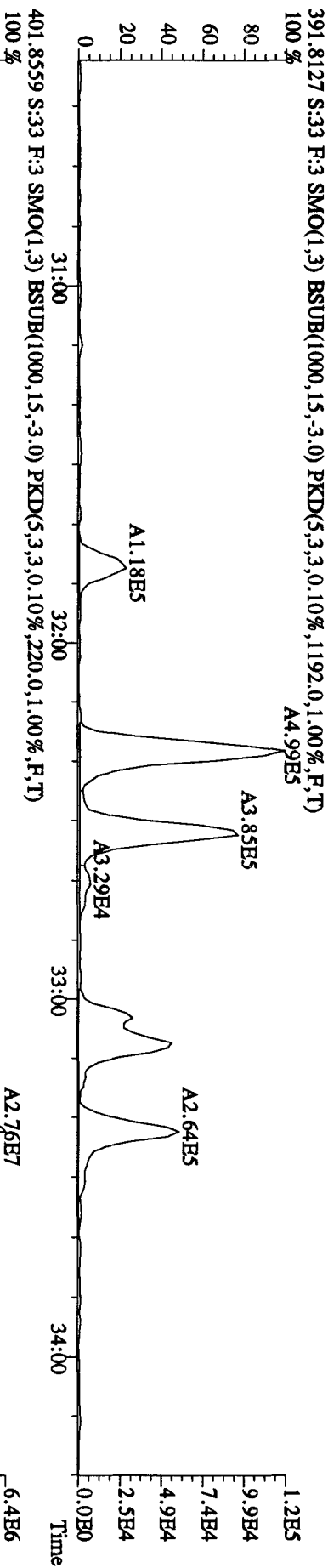
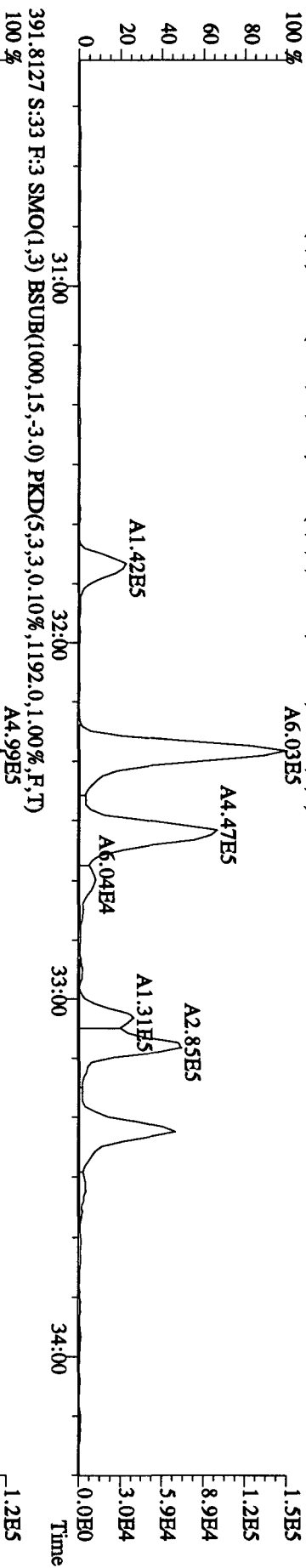


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

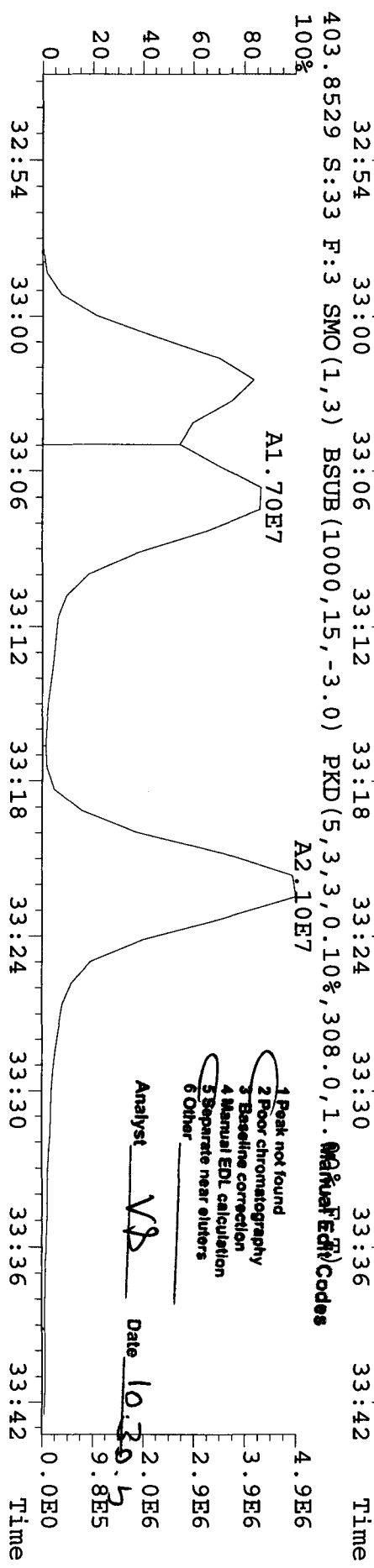
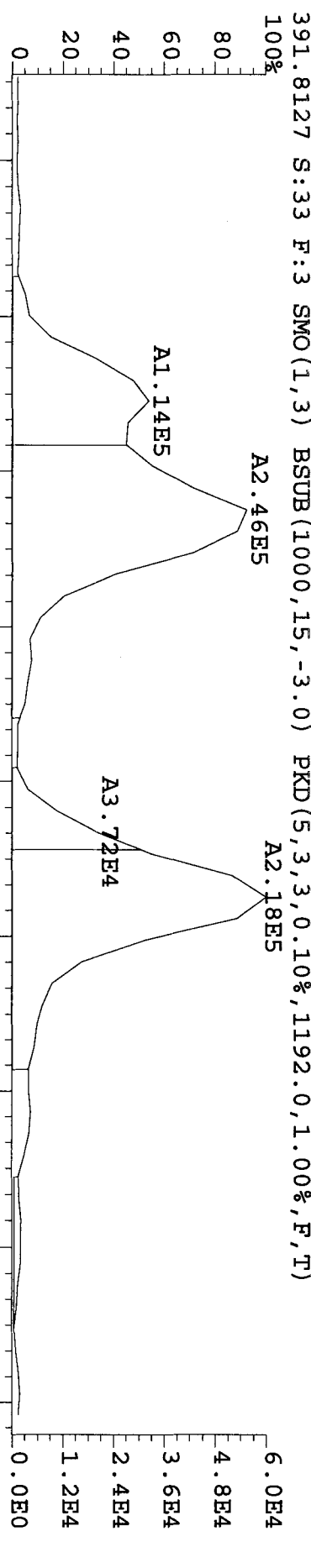
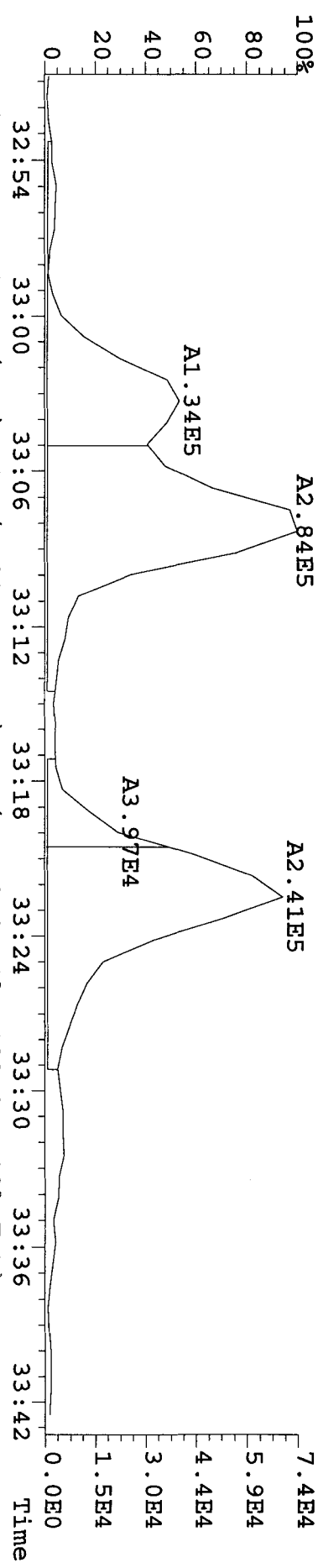
Analyst VB

Date 10-30-10

File: 280C104D5 #1-286 Acq: 29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#33 Text: L8VH6-1-AA : G0J210484-11 RI Exp: DIOXINRES
 389.8157 S:33 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1300,0,1,00%,F,T)
 100 % A6.03E5



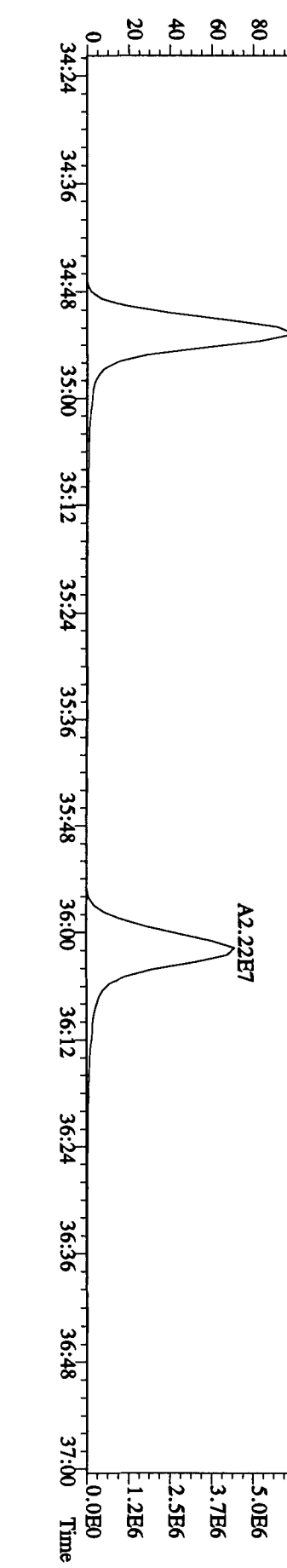
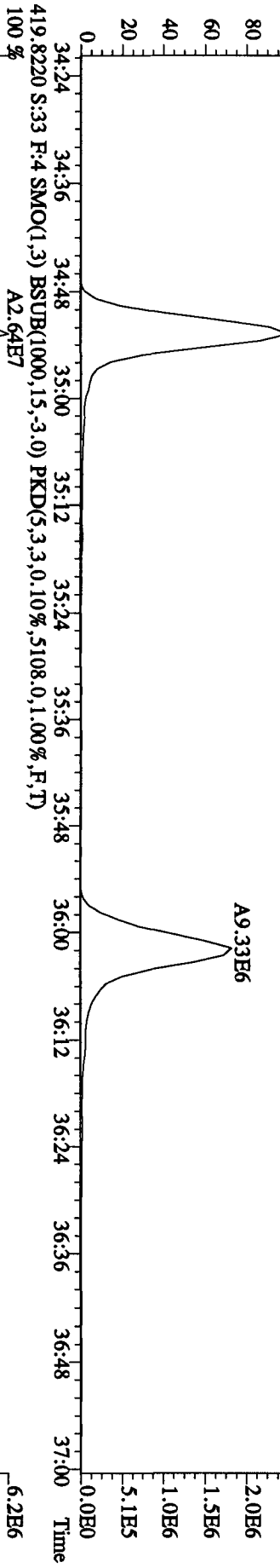
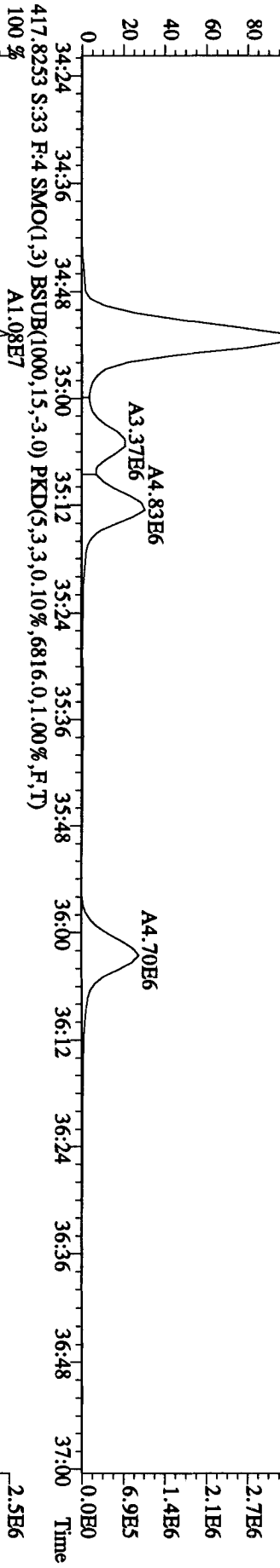
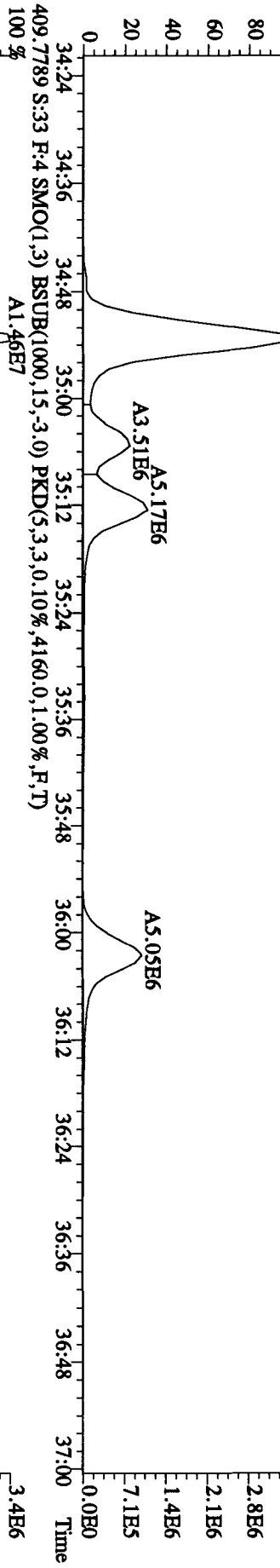
File: 280C104D5 #1-286 Acq: 29-OCT-2010 09:24:22 GC E1+ Voltage SIR Autospec-Ultimate
 Sample#33 Text: L8VH6-1-AA : G0J210484-11 Exp: DIOXINRES
 389.8157 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



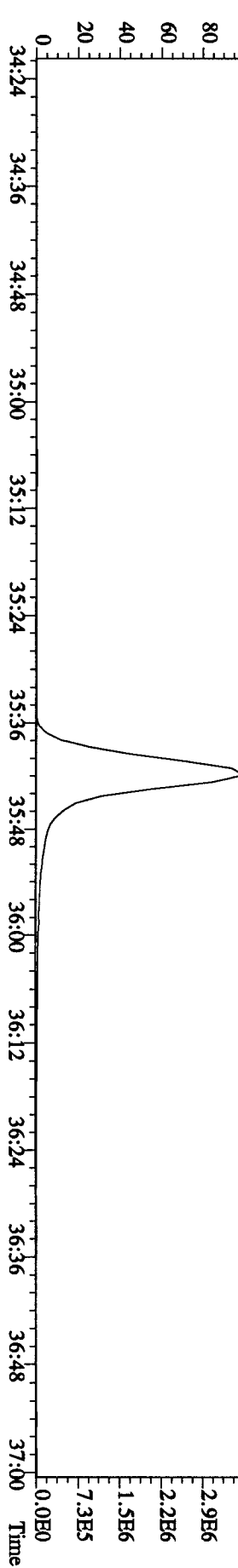
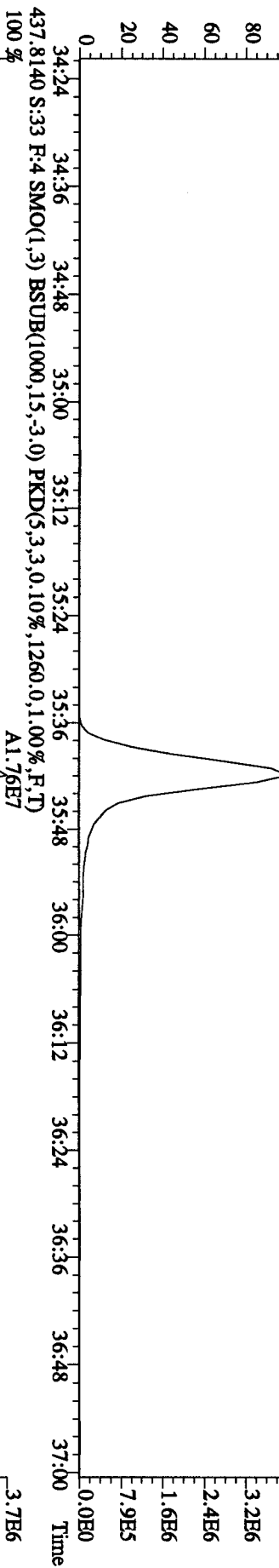
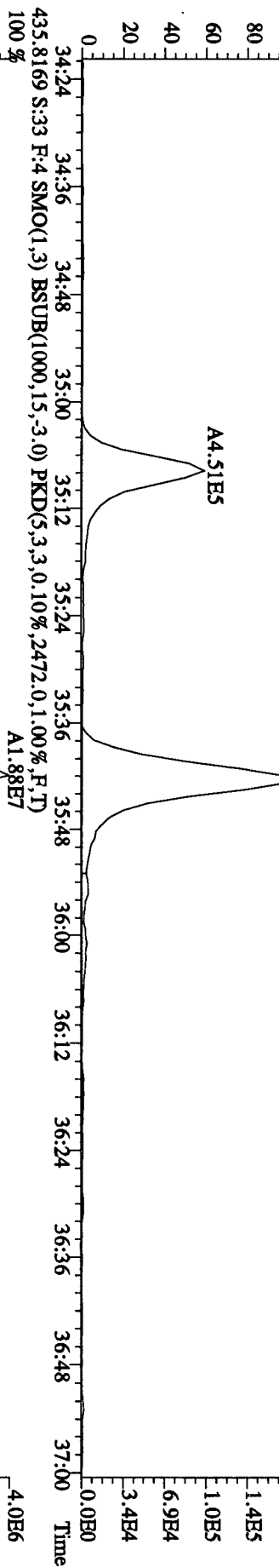
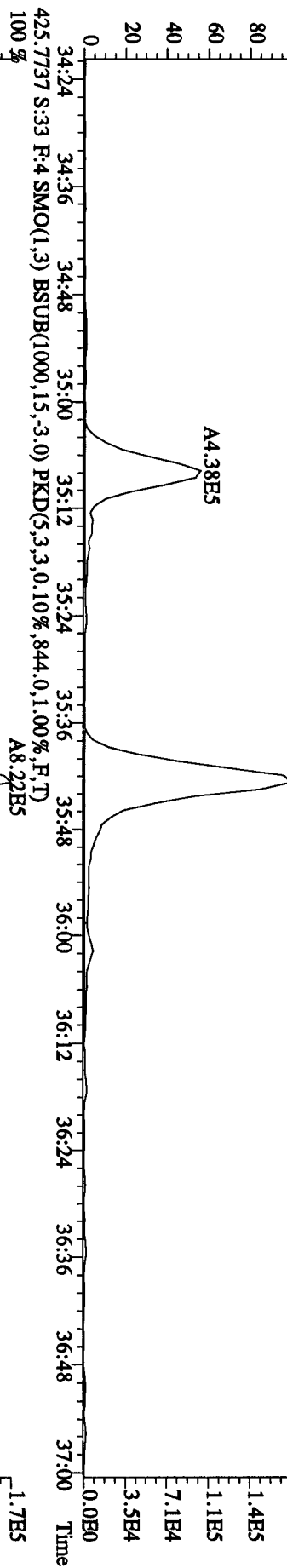
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VP Date 10.30.10

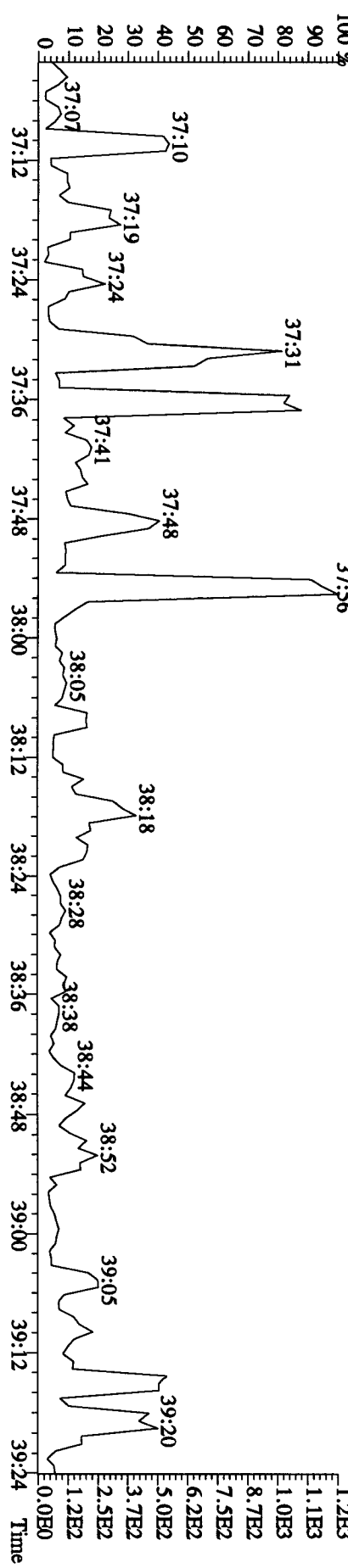
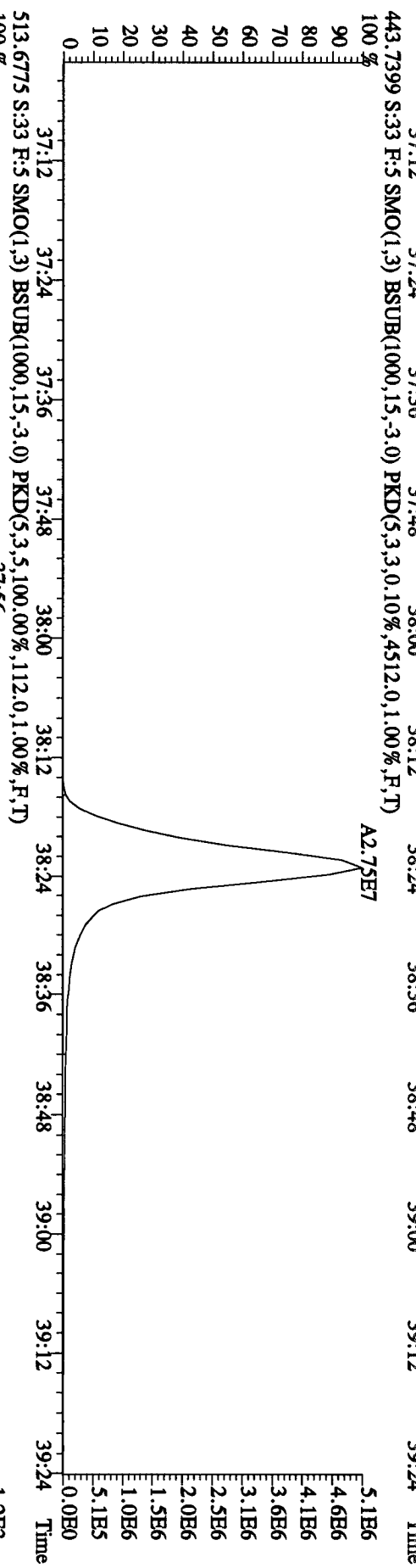
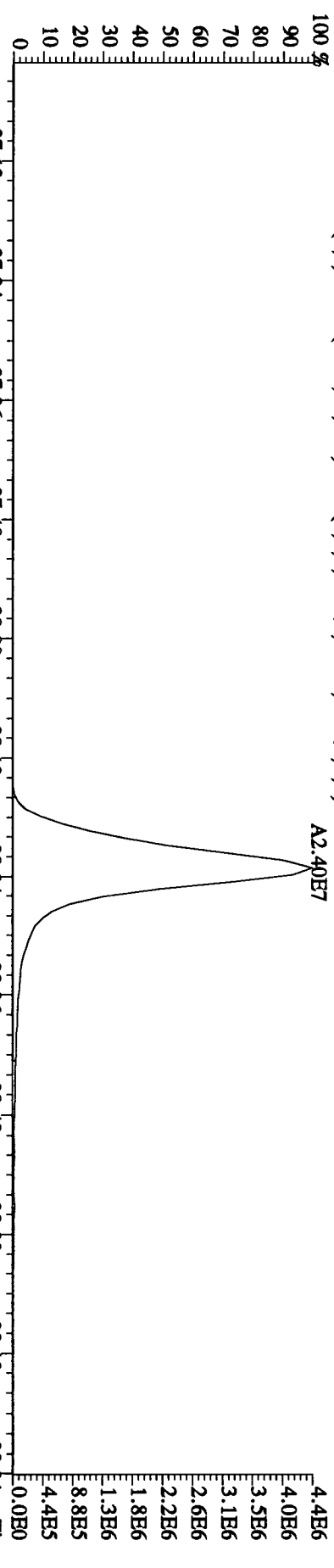
File:280C104D5 #1-201 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 407.7818 S:33 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2980.0,1.00%,F,T)
 100 % A1.52E7



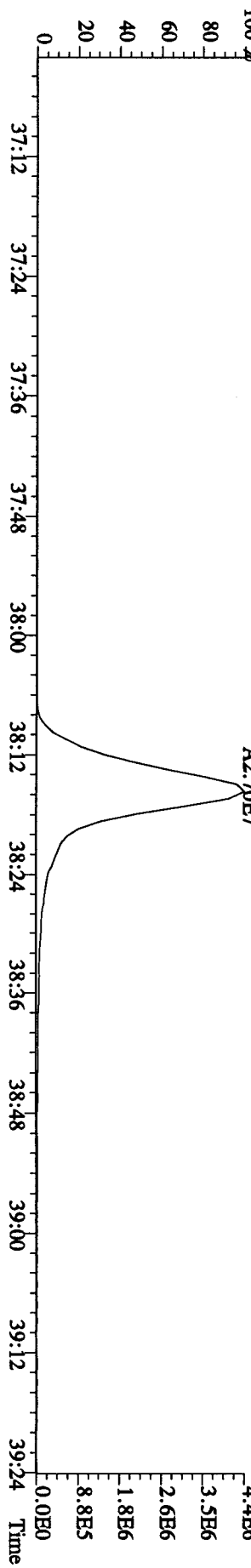
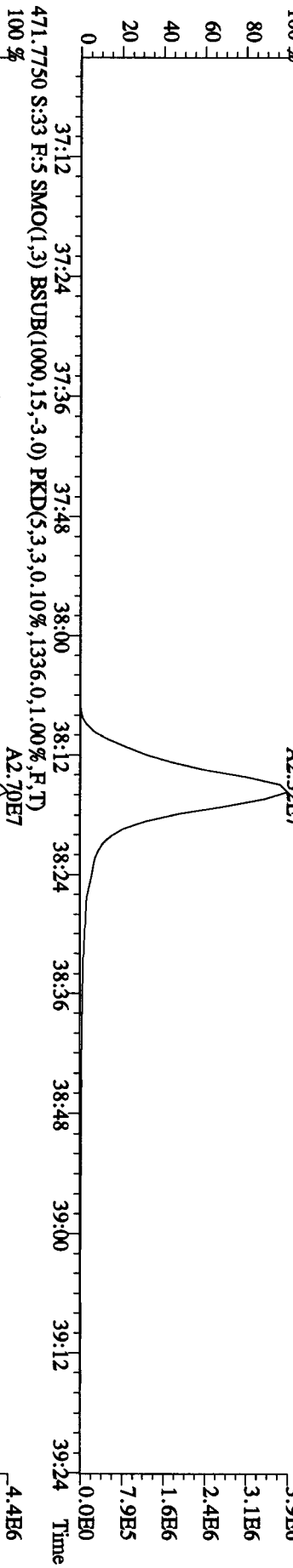
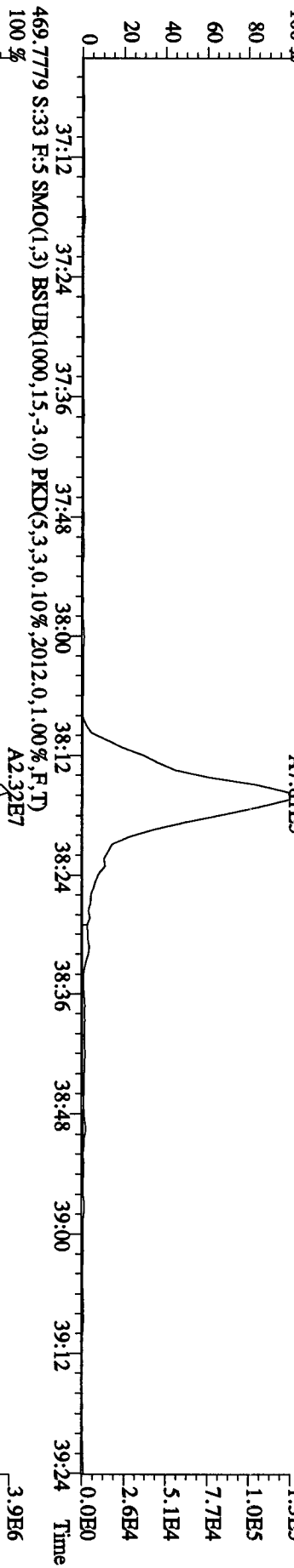
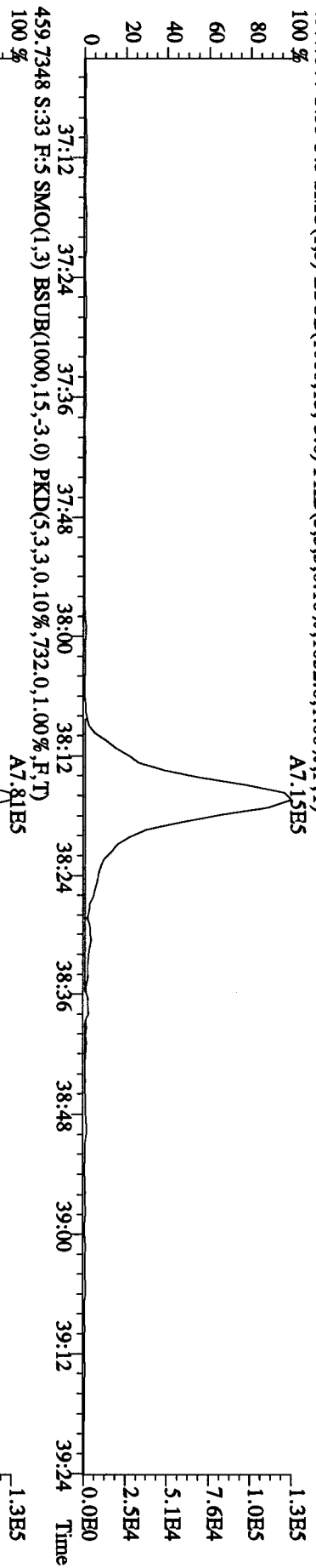
Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI
 423.7766 S:33 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T) A8.41E5

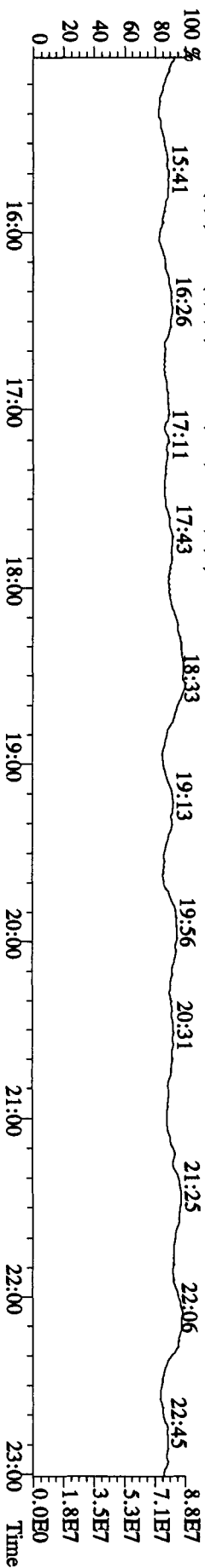
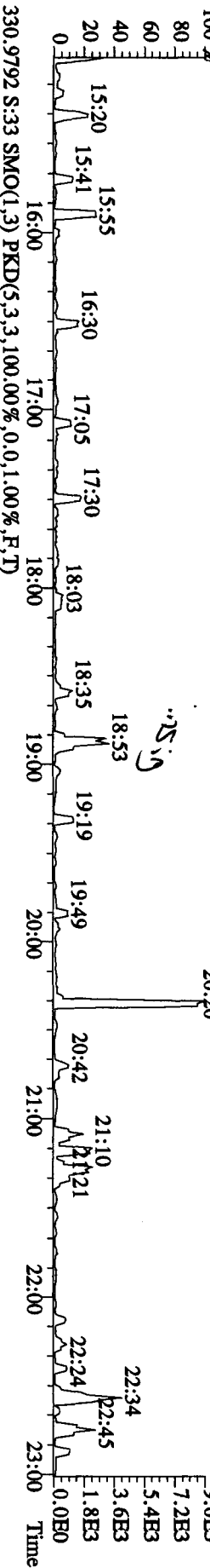
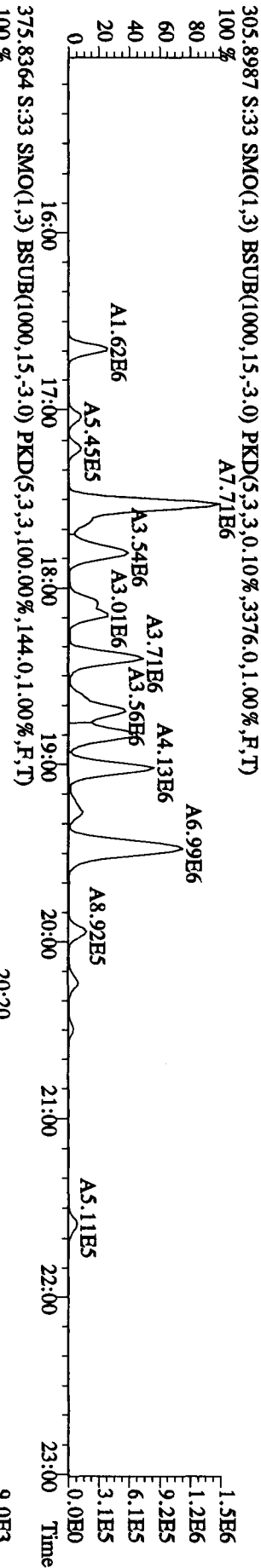
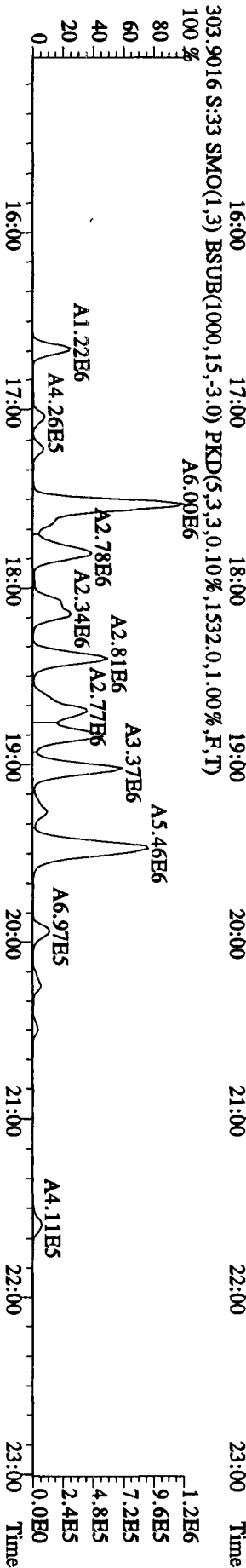
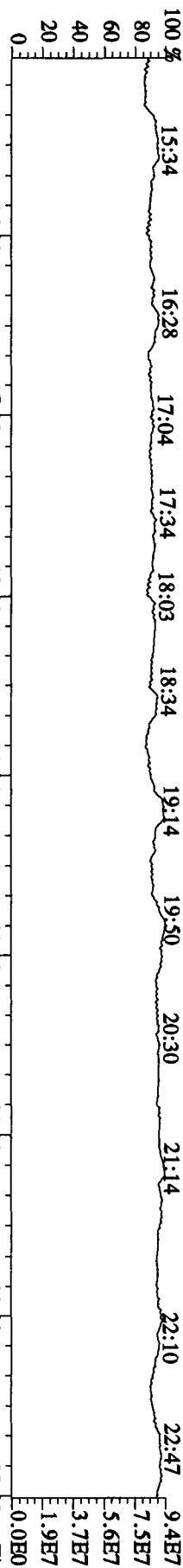


File:280C104D5 #1-192 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 441.7428 S:33 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,724.0,1.00%,F,T)



File:28OC104D5 #1-192 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaB
Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
457.7377 S:33 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1052.0,1.00%,F,T)
100% A7.15E5

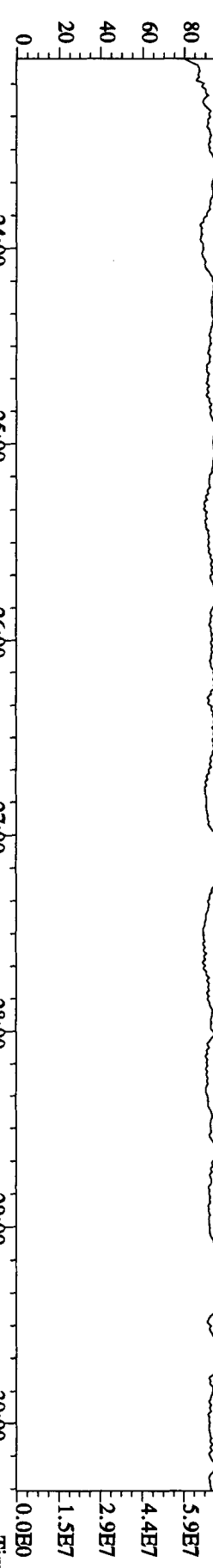




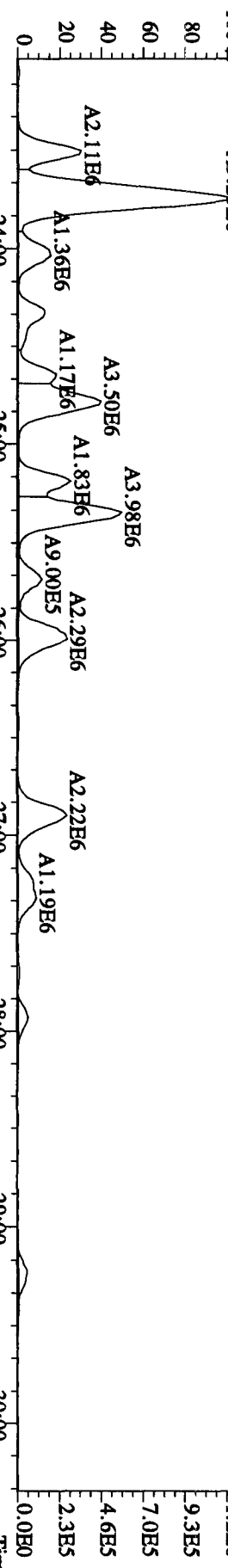
File:280C104D5 #1-470 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-Ultimate

Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES

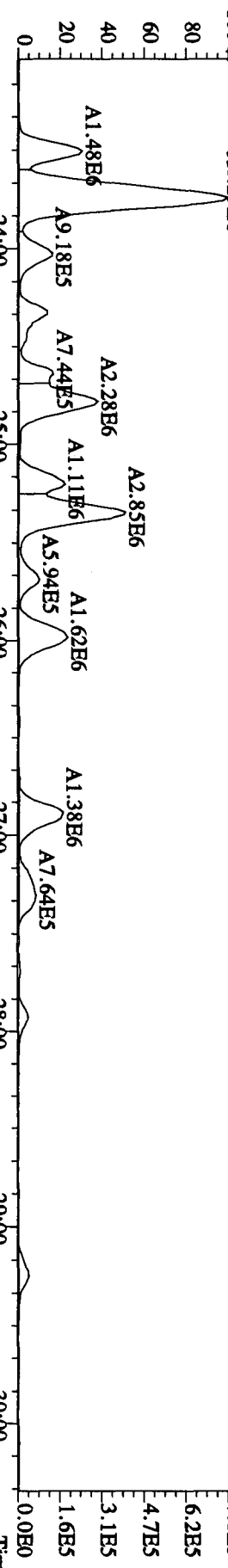
342.9792 S:3.3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



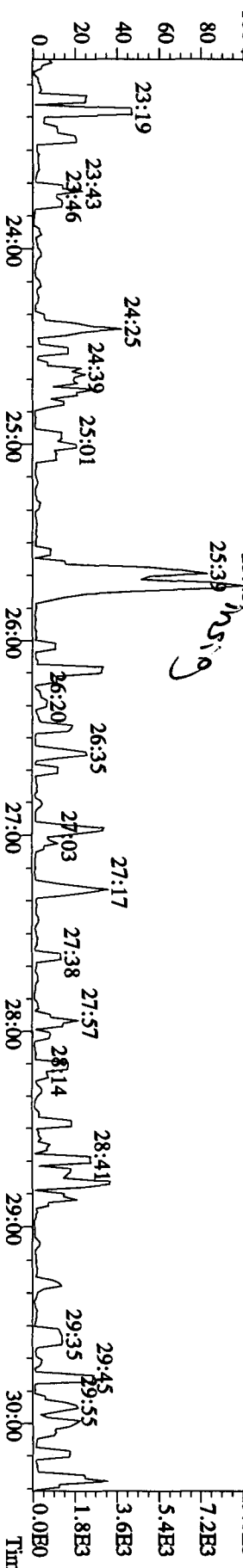
339.8597 S:3.3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6720.0,1.00%,F,T)



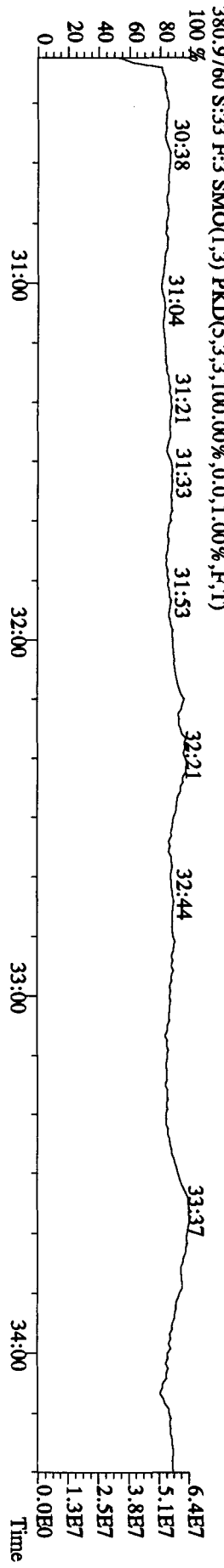
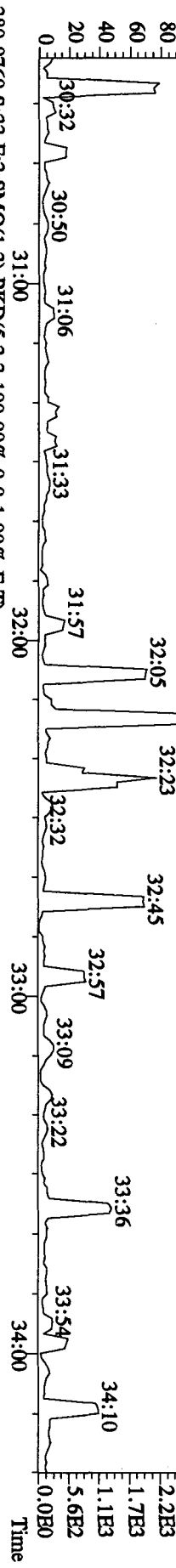
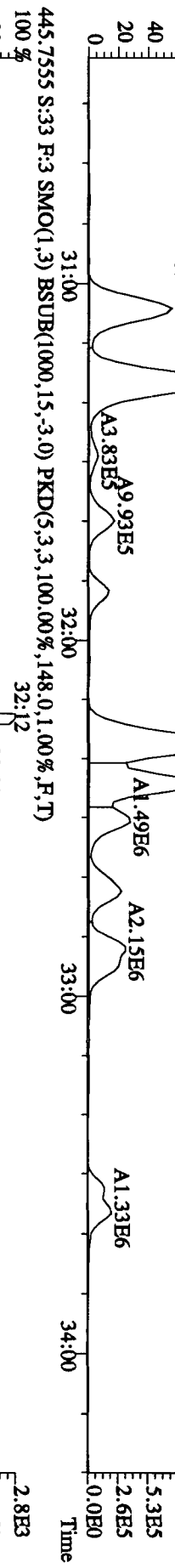
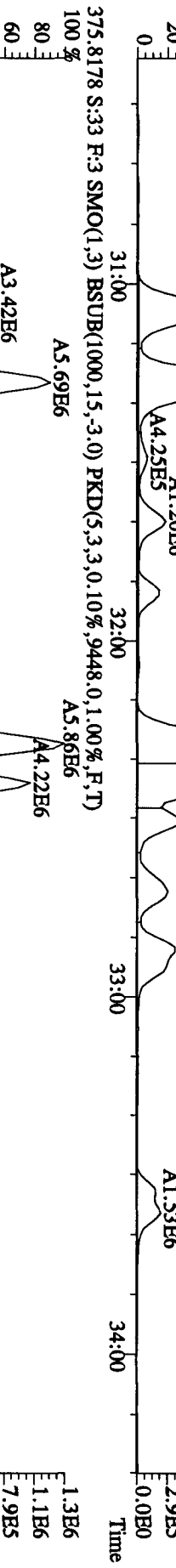
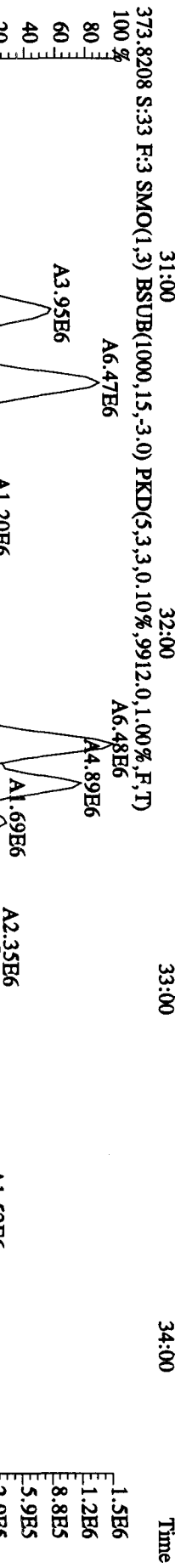
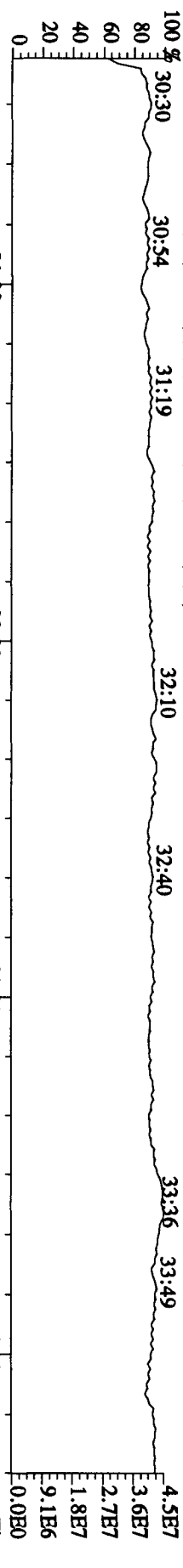
341.8567 S:3.3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3448.0,1.00%,F,T)



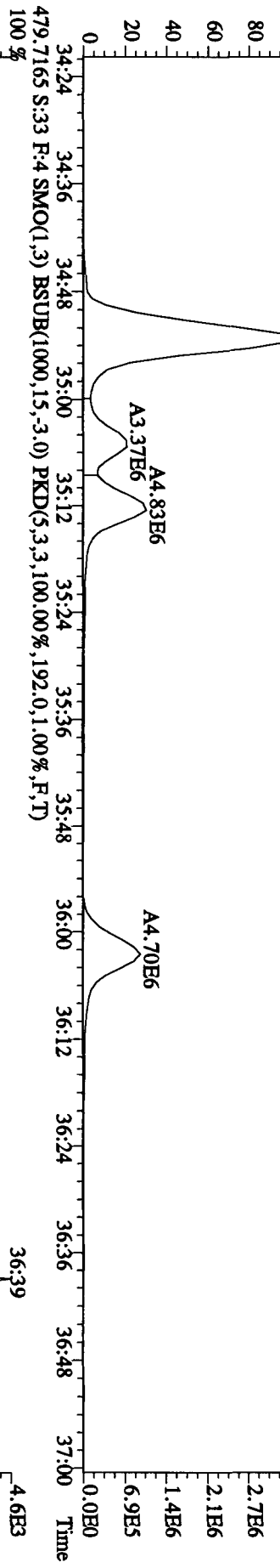
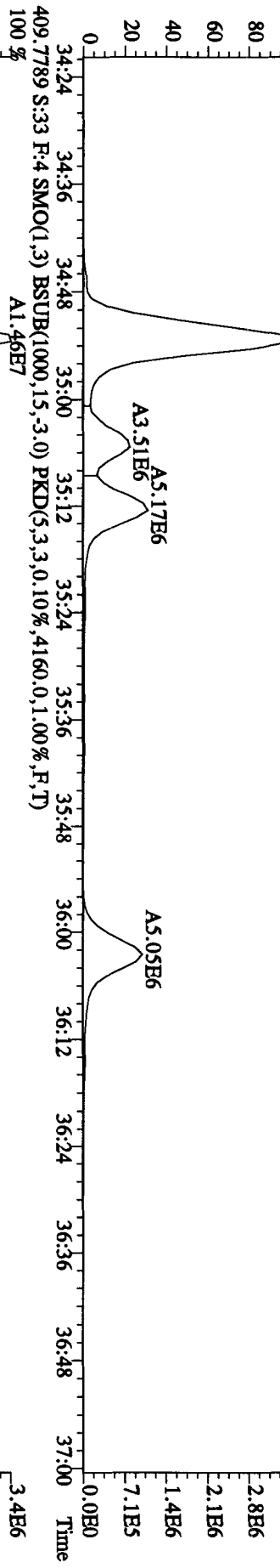
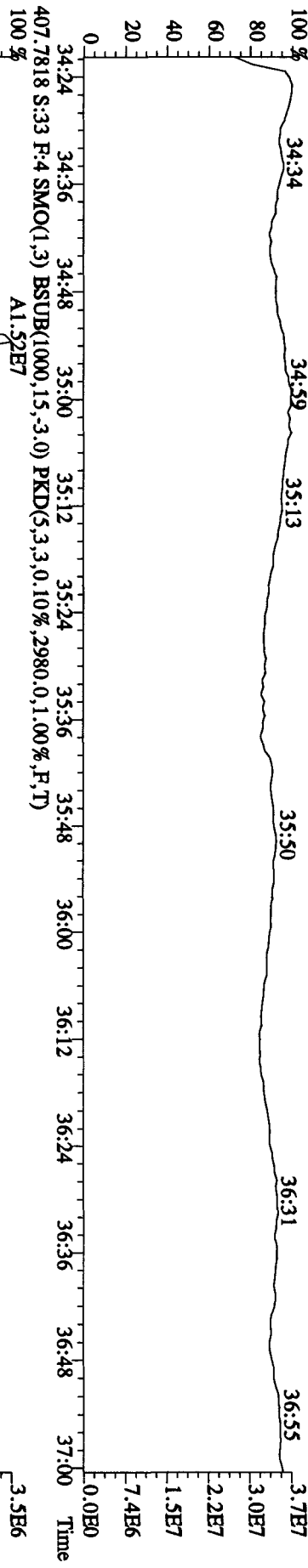
409.7974 S:3.3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,180.0,1.00%,F,T)



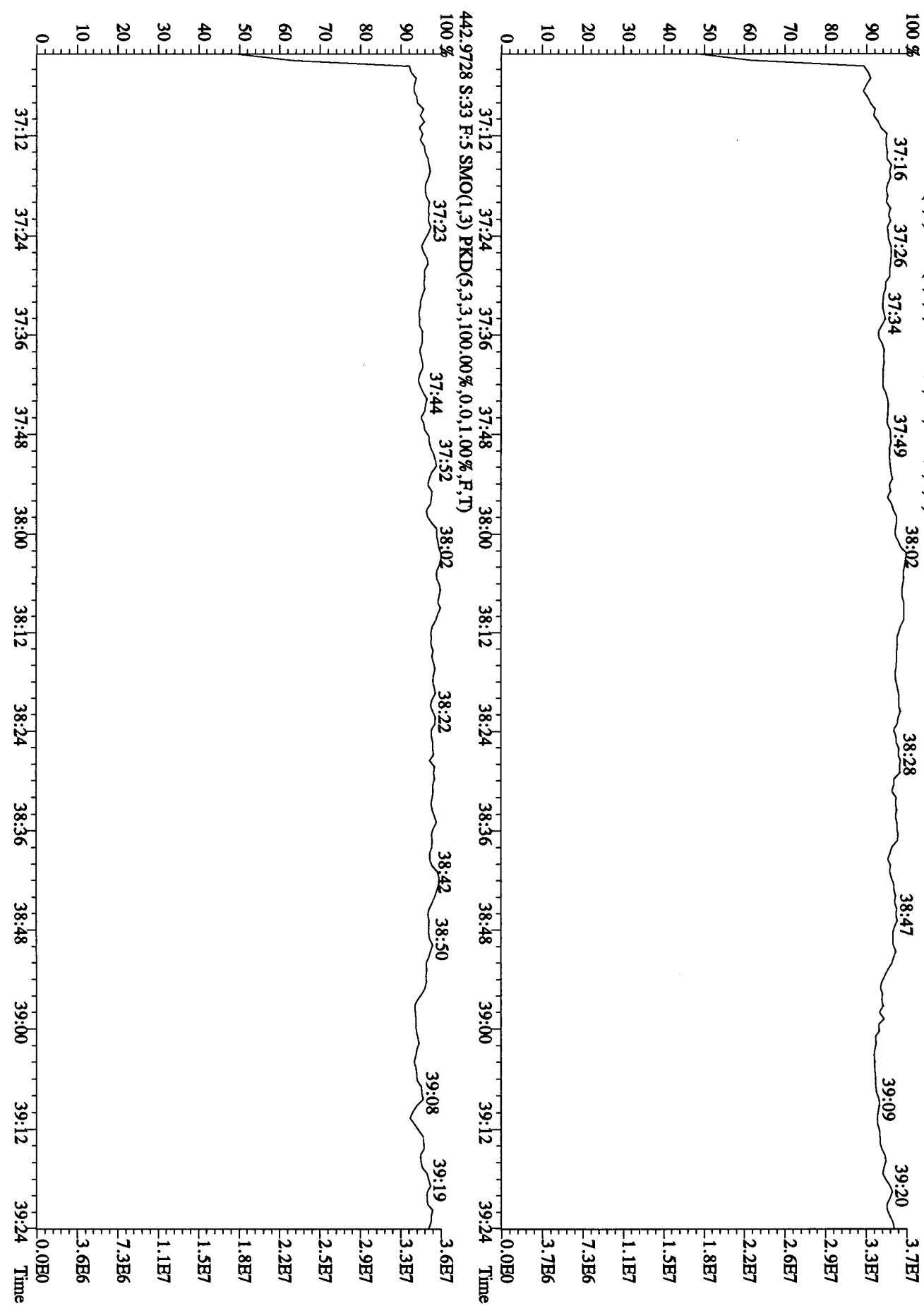
File: 280C104D5 #1-286 Acq: 29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#33 Text: L8VH6-1-AA : G0J210484-11 RI Exp: DIOXINRES
 392.9760 S:33 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:280C104D5 #1-201 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#33 Tex:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 430.9728 S:33 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 407.7818 S:33 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2980.0,1.00%,F,T)
 479.7165 S:33 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,192.0,1.00%,F,T)



File:280C104D5 #1-192 Acq:29-OCT-2010 09:24:22 GC EI+ Voltage SIR Autospec-UtimaB
 Sample#33 Text:L8VH6-1-AA :G0J210484-11 RI Exp:DIOXINRES
 454.9728 S:33 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

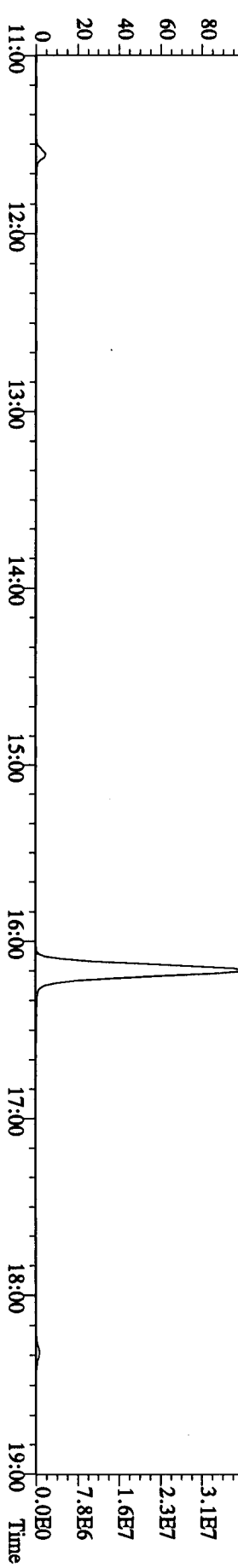
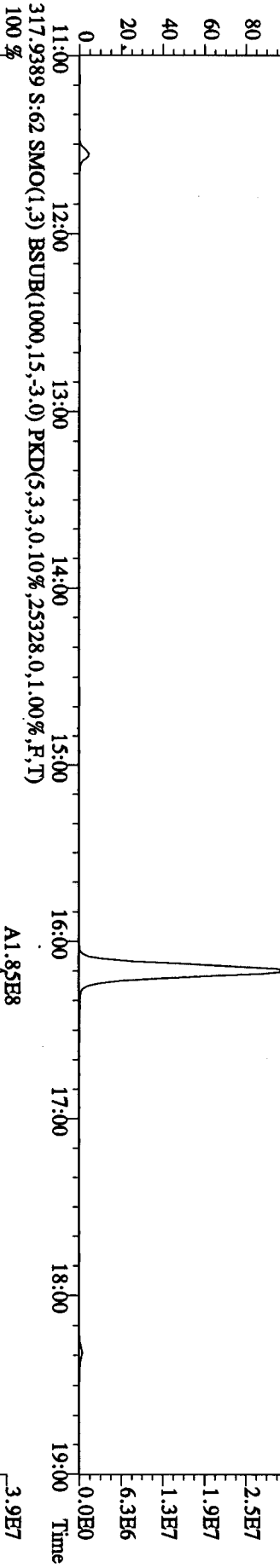
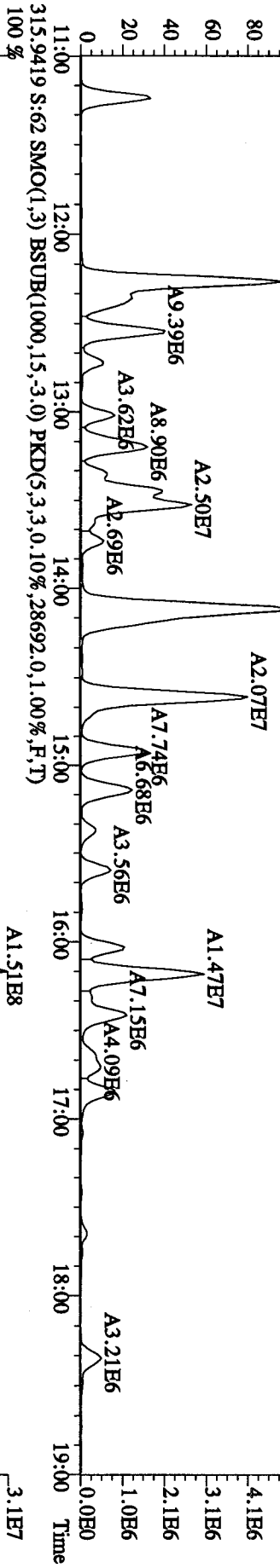
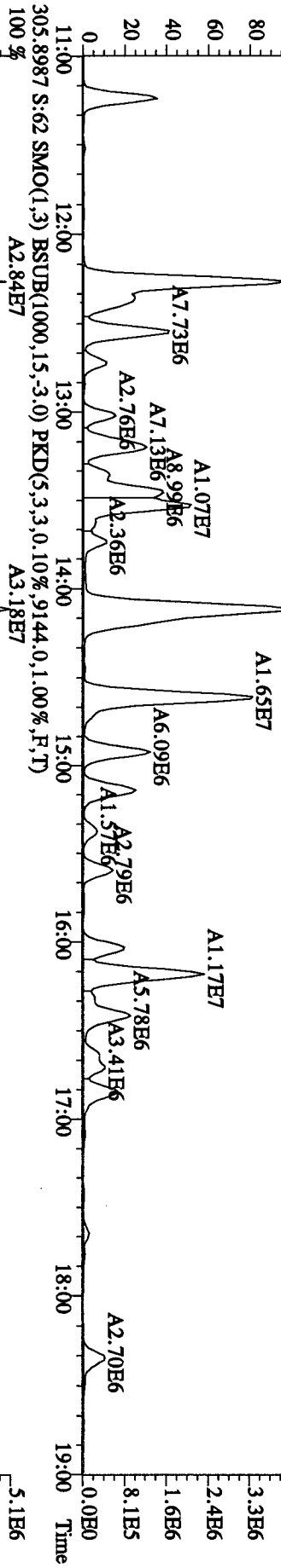


Run text: L8VH6-1-AA Sample text: L8VH6-1-AA :G0J210484-11
 Run #61 Filename: 27OC10A5D2 S: 62 I: 1 Results: 27OC10A5D2DB225
 Acquired: 29-OCT-10 10:44:08 Processed: 29-OCT-10 13:52:29
 Run: 27OC10A5D2 Analyte: DB225 Cal: DB2250726105D2R
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 sam

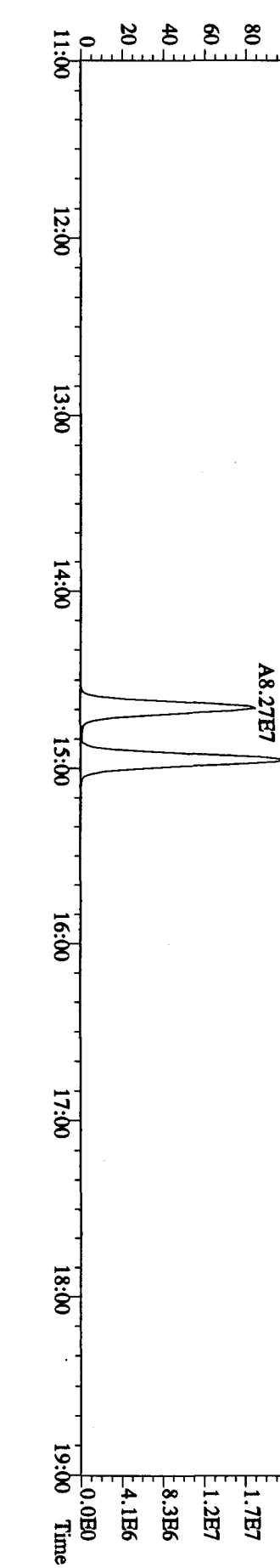
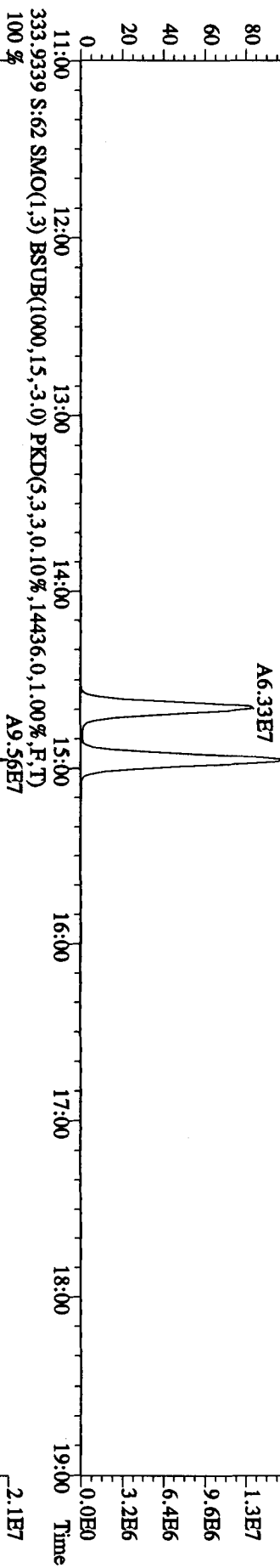
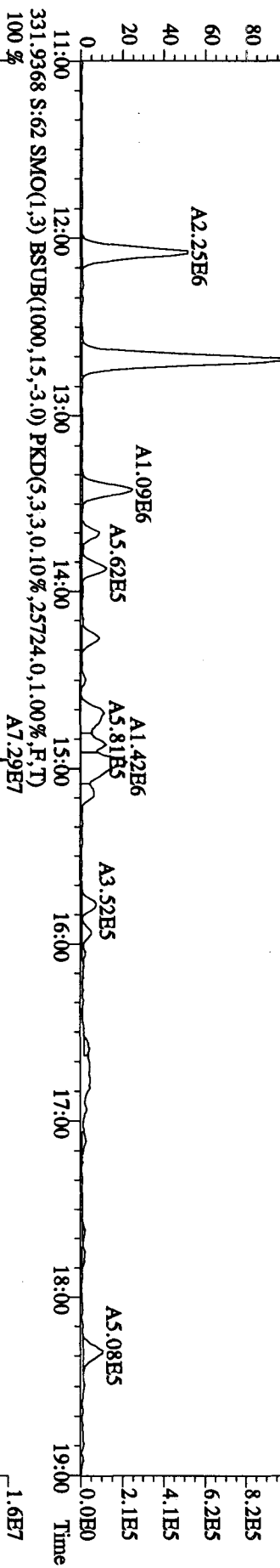
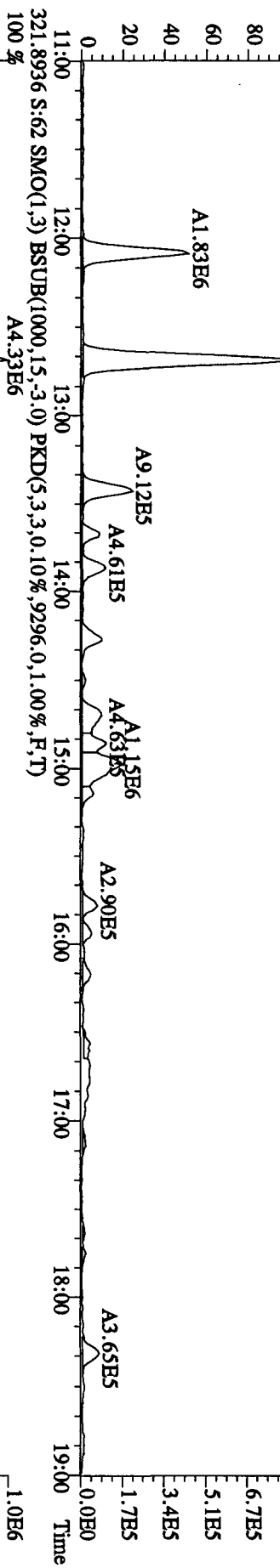
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	168476896	0.76 y	14:57	-	285.313	-	-	n
13C-2,3,7,8-TCDF	335925792	0.82 y	16:10	2.11	3777.477	8.372	94.4	n
2,3,7,8-TCDF	26349213	0.80 y	16:11	1.06	297.075	2.649	-	n
13C-2,3,7,8-TCDD	146014268	0.76 y	14:40	0.88	3918.414	14.823	98.0	n
2,3,7,8-TCDD	1490223	0.68 y	14:42	1.64	24.956	4.201	-	n
37C1-2,3,7,8-TCDD	90561560	1.00 y	14:41	1.29	1667.238	6.318	104.2	n

VB io. In

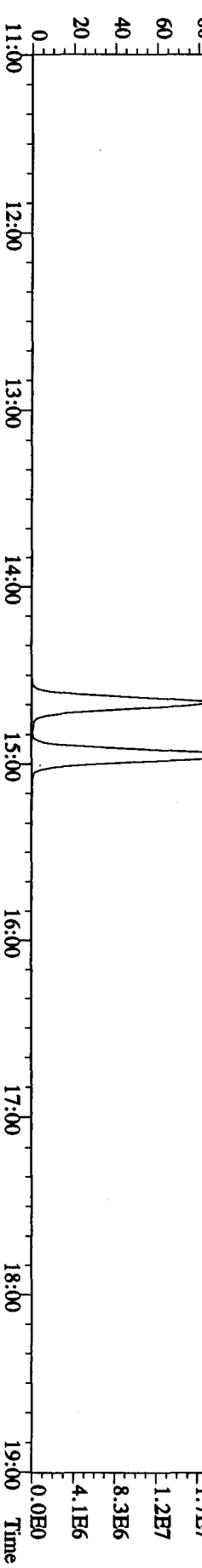
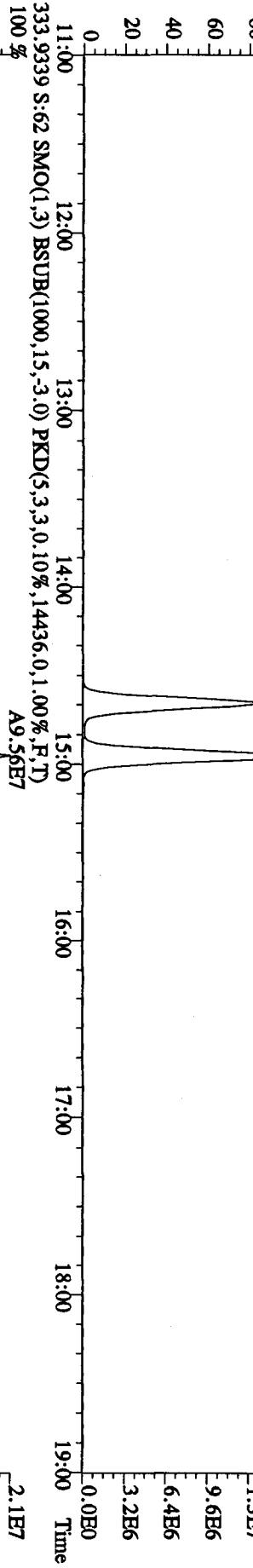
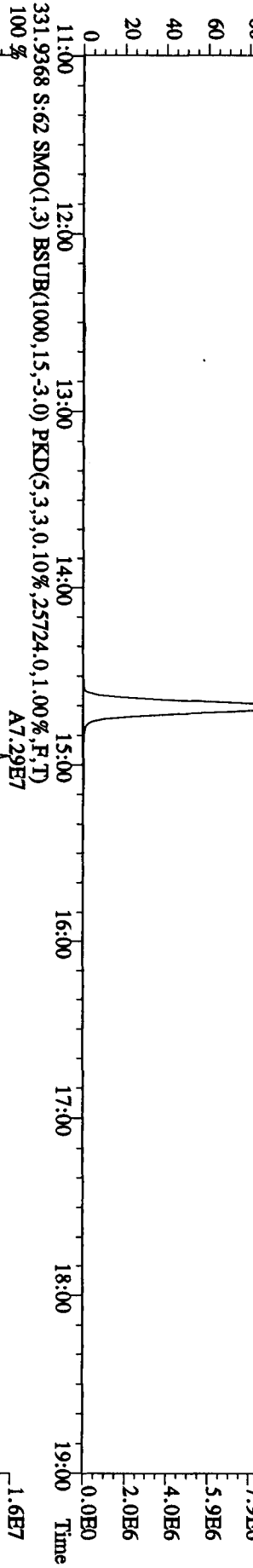
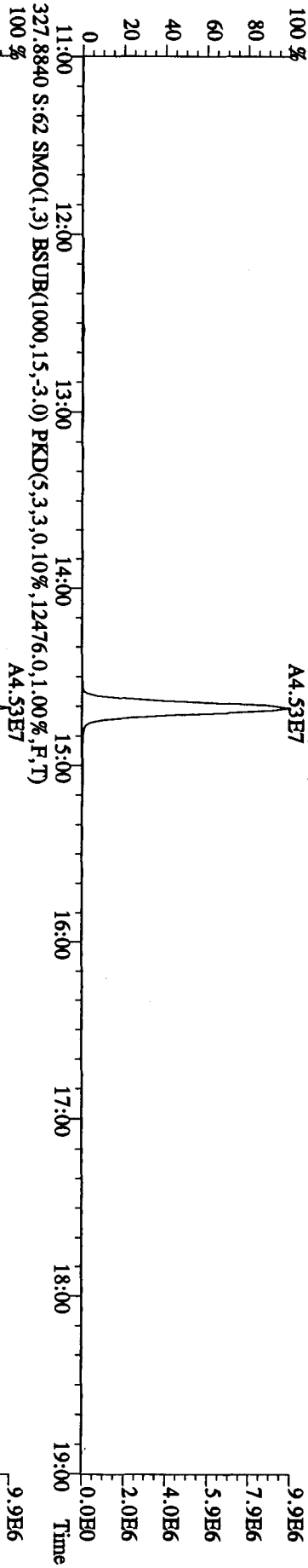
File: 27OC10A5D2 #1-1241 Acq: 29-OCT-2010 10:44:08 GC EI + Voltage SIR 70SE
 Sample#62 Text: L8VH6-1-AA :G01210484-11 Exp: DB225RES
 303.9016 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7236.0,1.00%,F,T)
 100% A2.27E7 A2.55E7



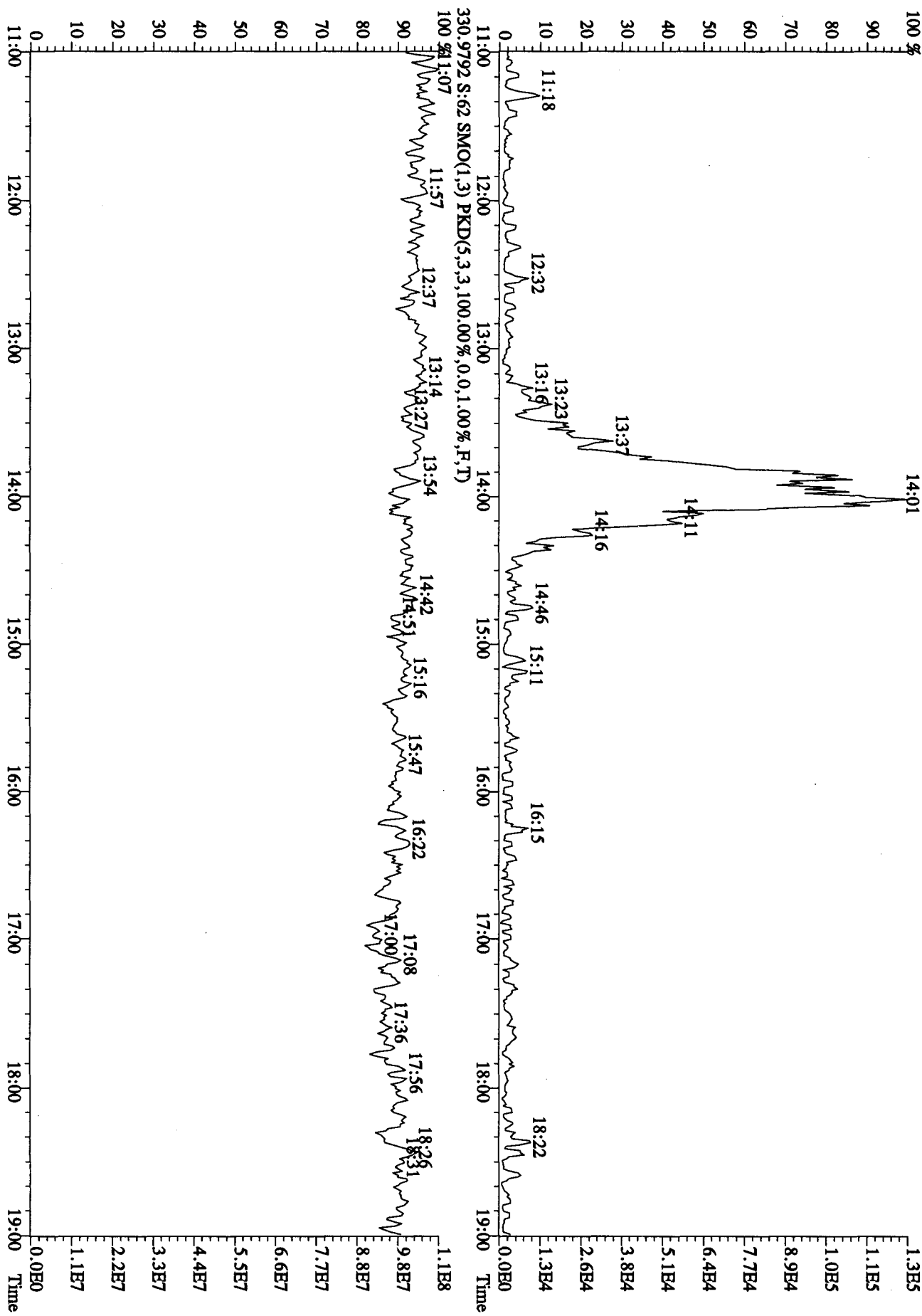
File:27OC10A5D2 #1-1241 Acq:29-OCT-2010 10:44:08 GC EI+ Voltage SIR 70SE
 Sample#62 Text:L8VH6-1-AA :G0J210484-11 Exp:DB225RES
 319.8965 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8456.0,1.00%,F,T)
 100%



File: 27OC10A5D2 #1-1241 Acq: 29-OCT-2010 10:44:08 GC EI+ Voltage SIR 70SE
 Sample#62 Text: L8VH6-1-AA : G0J210484-11 Exp: DB25RES
 327.8840 S: 62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12476.0,1.00%,F,T)
 100 % A4.53E7



File: 27OCT10A5D2 #1-1241 Acq: 29-OCT-2010 10:44:08 GC EI+ Voltage SIR 70SE
 Sample#62 Text: L8VH6-1-AA : G0J210484-11 Exp: DB25RES
 375.8364 S: 62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.1,0.00%,F,T)
 100 %



Run text: L8VH8-1-AA Sample text: L8VH8-1-AA :G0J210484-13 RI
 Run #16 Filename: 28OC104D5 S: 34 I: 1 Results: 28oc104d5to9vg
 Acquired: 29-OCT-10 10:09:00 Processed: 29-OCT-10 10:54:47
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

V810.30.6

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68313800	0.80 y	20:02	-	40.91	-	-	n
13C-2,3,7,8-TCDF	75415000	0.79 y	19:26	1.23	3592.00	3.67	89.8	n
2,3,7,8-TCDF	490662	0.79 y	19:28	0.99	26.17	2.49	-	n
Total TCDF	3624591	0.68 y	16:40	0.99	193.31 188.25	2.49	-	n
13C-2,3,7,8-TCDD	57605100	0.78 y	20:15	0.91	3726.81	7.42	93.2	n
2,3,7,8-TCDD	6370	0.15 n	20:16	0.98	0.45	2.50	-	n
Total TCDD	160933	1.36 n	17:42	0.98	11.36 6.58	2.50	-	n
37Cl-2,3,7,8-TCDD	31590800	1.00 y	20:17	1.33	1654.22	0.31	103.4	n
13C-1,2,3,7,8-PeCDF	58619300	1.55 y	25:19	0.88	3917.99	7.28	97.9	n
1,2,3,7,8-PeCDF	183413	1.58 y	25:21	1.08	11.62	3.68	-	y
2,3,4,7,8-PeCDF	40826	3.33 n	26:54	1.05	2.66	3.79	-	n
Total F2 PeCDF	1180382	1.24 n	23:30	1.06	75.78 84.09	3.74	-	y
Total F1 PeCDF	225326	0.09 n	16:09	1.06	14.49	2.41	-	n
13C-1,2,3,7,8-PeCDD	43709600	1.53 y	27:43	0.66	3872.95	1.95	96.8	n
1,2,3,7,8-PeCDD	11676	2.62 n	27:46	0.93	1.15	2.51	-	n
Total PeCDD	103794	2.65 n	24:00	0.93	10.26 2.8 DL	2.51	-	n
13C-1,2,3,7,8,9-HxCDD	48401400	1.28 y	33:22	-	40.88	-	-	n
13C-1,2,3,4,7,8-HxCDF	41384800	0.50 y	32:17	1.04	3273.52	12.68	81.8	n
1,2,3,4,7,8-HxCDF	207738	0.97 n	32:17	1.22	16.50	1.14	-	y
1,2,3,6,7,8-HxCDF	159927	0.88 n	32:24	1.28	12.06	1.08	-	y
2,3,4,6,7,8-HxCDF	35444	1.61 n	32:53	1.23	2.78	1.13	-	y
1,2,3,7,8,9-HxCDF	21536	1.23 y	33:33	1.10	1.90	1.26	-	y
Total HxCDF	1164201	1.29 y	31:04	1.21	92.42	1.15	-	y
13C-1,2,3,6,7,8-HxCDD	41165700	1.29 y	33:07	0.83	4094.92	2.28	102.4	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.04	*	1.83	-	n
1,2,3,6,7,8-HxCDD	16799	1.65 n	33:07	1.16	1.40	1.63	-	n
1,2,3,7,8,9-HxCDD	12761	2.79 n	33:21	1.18	1.05	1.60	-	n
Total HxCDD	99216	2.03 n	32:18	1.13	8.46 4.52 DL	1.68	-	n
13C-1,2,3,4,6,7,8-HpCDF	37930100	0.43 y	34:53	0.91	3444.56	20.00	86.1	n
1,2,3,4,6,7,8-HpCDF	657723	1.12 y	34:53	1.35	51.54	2.05	-	n
1,2,3,4,7,8,9-HpCDF	184187	0.95 y	36:03	1.09	17.76	2.52	-	n
Total HpCDF	1179364	1.12 y	34:53	1.22	98.48	2.26	-	n
13C-1,2,3,4,6,7,8-HpCDD	36529100	1.05 y	35:42	0.83	3652.10	13.12	91.3	n
1,2,3,4,6,7,8-HpCDD	61903	1.13 y	35:44	1.07	6.33	2.04	-	n
Total HpCDD	159276	1.24 n	34:53	1.07	16.27 12.6	2.04	-	n
13C-OCDD	51884700	0.86 y	38:15	0.62	6917.05	9.09	86.5	n
OCDF	958415	0.83 y	38:22	1.37	107.84	4.47	-	n

OCDD

182464 1.05 n 38:15 1.20

23.46 JQB

2.14

- n

Run text: L8VH8-1-AA Sample text: L8VH8-1-AA :G0J210484-13 RI
 Run #16 Filename: 28OC104D5 S: 34 I: 1 Results: 28OC104D5TO9
 Acquired: 29-OCT-10 10:09:00 Processed: 29-OCT-10 10:54:47
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68313804	0.80 y	20:02	-	40.908	-	-	n
13C-2,3,7,8-TCDF	75415036	0.79 y	19:26	1.23	3592.001	3.671	89.8	n
2,3,7,8-TCDF	490663	0.79 y	19:28	0.99	26.168	2.488	-	n
Total TCDF	3624592	0.68 y	16:40	0.99	193.300 188.252 ✓	2.488	-	n
13C-2,3,7,8-TCDD	57605044	0.78 y	20:15	0.91	3726.806	7.416	93.2	n
2,3,7,8-TCDD	6370	0.15 n	20:16	0.98	0.450	2.502	-	n
Total TCDD	160933	1.36 n	17:42	0.98	11.363 6.58 ✓	2.502	-	n
37Cl-2,3,7,8-TCDD	31590824	1.00 y	20:17	1.33	1654.223	0.308	103.4	n
13C-1,2,3,7,8-PeCDF	58619244	1.55 y	25:19	0.88	3917.987	7.282	97.9	n
1,2,3,7,8-PeCDF	139907	2.05 n	25:21	1.08	8.867 ✓	3.684	-	n
2,3,4,7,8-PeCDF	40826	3.33 n	26:54	1.05	2.664	3.794	-	n
Total F2 PeCDF	1050052	1.24 n	23:30	1.06	67.435	3.738	-	n
Total F1 PeCDF	225326	0.09 n	16:09	1.06	14.490 84.09 ✓	2.411	-	n
13C-1,2,3,7,8-PeCDD	43709516	1.53 y	27:43	0.66	3872.944	1.947	96.8	n
1,2,3,7,8-PeCDD	11676	2.62 n	27:46	0.93	1.155	2.514	-	n
Total PeCDD	103794	2.65 n	24:00	0.93	10.264 2.8 DL	2.514	-	n
13C-1,2,3,7,8,9-HxCDD	48401366	1.28 y	33:22	-	40.880	-	-	n
13C-1,2,3,4,7,8-HxCDF	41384845	0.50 y	32:17	1.04	3273.529	12.684	81.8	n
1,2,3,4,7,8-HxCDF	241248	1.02 n	32:17	1.22	19.156	1.141	-	n
1,2,3,6,7,8-HxCDF	159270	0.88 n	32:24	1.28	12.011	1.084	-	n
2,3,4,6,7,8-HxCDF	82841	1.54 n	32:53	1.23	6.492	1.126	-	n
1,2,3,7,8,9-HxCDF	40995	0.60 n	33:33	1.10	3.608	1.265	-	n
Total HxCDF	1215321	1.29 y	31:04	1.21	96.570 ✓	1.150	-	n
13C-1,2,3,6,7,8-HxCDD	41165650	1.29 y	33:07	0.83	4094.922	2.283	102.4	n
1,2,3,4,7,8-HxCDD	*	* n	Not Fnd	1.04	*	1.825	-	n
1,2,3,6,7,8-HxCDD	16799	1.65 n	33:07	1.16	1.404	1.628	-	n
1,2,3,7,8,9-HxCDD	12761	2.79 n	33:21	1.18	1.049	1.602	-	n
Total HxCDD	99216	2.03 n	32:18	1.13	8.458 4.52 DL	1.679	-	n
13C-1,2,3,4,6,7,8-HpCDF	37930046	0.43 y	34:53	0.91	3444.559	20.003	86.1	n
1,2,3,4,6,7,8-HpCDF	657722	1.12 y	34:53	1.35	51.540 ✓	2.050	-	n
1,2,3,4,7,8,9-HpCDF	184187	0.95 y	36:03	1.09	17.764 ✓	2.524	-	n
Total HpCDF	1179363	1.12 y	34:53	1.22	98.483 ✓	2.263	-	n
13C-1,2,3,4,6,7,8-HpCDD	36529116	1.05 y	35:42	0.83	3652.103	13.125	91.3	n
1,2,3,4,6,7,8-HpCDD	61903	1.13 y	35:44	1.07	6.325 ✓	2.037	-	n
Total HpCDD	159276	1.24 n	34:53	1.07	16.274 12.6 ✓	2.037	-	n
13C-OCDD	51884658	0.86 y	38:15	0.62	6917.050	9.086	86.5	n

OCDF	958415	0.83	y	38:22	1.37	107.842	4.468	-	n
OCDD	182464	1.05	n	38:15	1.20	23.458	2.145	-	n

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:14
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 96.654 of which 13.084 named and 83.570 unnamed
 Conc: 193.308 of which 26.168 named and 167.140 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:40	0.681 y	16.182	122916 180499	21.974 18.635	y	n
	2	17:03	0.723 y	6.785	53392 73830	9.891 6.558	y	n
	3	17:14	0.562 n	3.693	30123 53582	5.125 5.166	y	n
	4	17:32	0.829 y	37.972	322649 389335	46.744 35.736	y	n
	5	17:48	0.670 y	23.519	176940 264041	22.566 21.039	y	n
	6	18:09	0.777 y	19.079	156428 201301	17.663 10.784	y	n
	7	18:24	0.765 y	14.632	118950 155413	19.458 13.644	y	n
	8	18:43	0.645 n	9.807	79996 124038	12.192 10.091	y	n
	9	18:51	0.745 y	16.256	130109 174698	23.538 14.366	y	n
	10	19:01	0.722 y	14.164	111338 154233	17.443 14.176	y	n
	11	19:15	0.322 n	1.964	16020 49772	3.056 3.392	y	n
2,3,7,8-TCDF	12	19:28	0.785 y	26.168	215849 274813	33.186 23.896	y	n
	13	19:56	0.572 n	1.799	14677 25654	4.103 1.683	y	n
	14	20:10	0.811 y	1.289	10823 13340	1.561 1.817	n	n

188.256

LEDL

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total TCDD

F:1 Mass: 319.897 321.894 Mod? no #Hom:6

Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00

Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount:	5.681 of which	0.225 named and	5.457 unnamed
Conc:	11.363 of which	0.450 named and	10.913 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	17:42	1.364	n 3.738	40782 29907	8.640 6.332	y	n
	2	18:01	1.354	n 2.838	30749 22708	6.194 4.024	y	n
	3	18:58	1.083	n 1.895	16426 15162	2.949 3.001	n	n
	4	19:39	0.961	n 0.906	6968 7252	2.497 1.865	n	n
	5	20:09	0.816	y 1.536	9778 11983	2.891 3.183	n	n
2,3,7,8-TCDD	6	20:16	0.147	n 0.450	2771 18798	0.841 2.030	n	n

LEDL
6.58

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:9
Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 33.717 of which 5.766 named and 27.952 unnamed
Conc: 67.435 of which 11.532 named and 55.903 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 9 rows of data with some values crossed out.

Handwritten note: 1, 2, 3, 7, 8

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:5
Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 7.245 of which * named and 7.245 unnamed
Conc: 14.490 of which * named and 14.490 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 2 rows of data.

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:10
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d5

Amount: 37.89 of which 7.14 named and 30.74 unnamed
 Conc: 75.78 of which 14.29 named and 61.49 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:30	1.24 n	6.50	61422 49521	15.4 4.5	y	n
	2	23:45	1.66 y	27.05	262574 158072	48.0 10.9	y	n
	3	24:00	1.55 y	4.39	41434 26797	7.0 2.2	y	n
	4	24:18	1.35 y	2.47	22036 16321	4.4 1.7	y	n
	5	24:39	1.31 n	3.83	36178 27599	7.7 2.7	y	y
	6	24:47	2.09 n	7.54	96002 45959	18.3 3.4	y	y
	7	25:11	1.24 n	4.33	40882 33021	7.7 2.4	y	n
1,2,3,7,8-PeCDF	8	25:21	1.58 y	11.62	112202 71211	20.3 3.9	y	n
	9	25:58	2.00 n	5.39	65736 32898	11.3 2.6	y	n
2,3,4,7,8-PeCDF	10	26:54	3.33 n	2.66	53333 16010	8.8 1.7	y	n

Handwritten: 70-65

Handwritten: NA

					8334	1.857	n	n
3	17:29	0.343	n	0.526	4973	8.892	y	n
					14484	1.575	n	n
4	19:02	0.266	n	0.343	3239	4.973	y	n
					12183	2.274	n	n
5	21:55	1.587	y	13.442	128230	121.106	y	n
					80806	9.882	y	n

Totals Results TestAmerica West Sacramento Page 5 of 9

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:7
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 5.132 of which 0.577 named and 4.554 unnamed
 Conc: 10.264 of which 1.155 named and 9.109 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	24:00	2.651	2.623	27581	3.572	y	n
					10402	20.214	y	n
	2	25:34	1.231	1.889	11611	3.989	y	n
					9435	30.471	y	n
	3	25:42	0.608	0.677	4165	1.242	n	n
					6849	15.337	y	n
	4	26:52	9.202	0.205	7466	1.862	n	n
					811	2.576	n	n
	5	27:15	2.776	2.788	30695	4.567	y	n
					11056	21.209	y	n
1,2,3,7,8-PeCDD	6	27:46	2.620	1.155	11997	4.230	y	n
					4579	12.522	y	n
	7	28:46	1.812	0.927	6662	2.068	n	n
					3677	5.392	y	n

507

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:11
Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 48.285 of which 20.634 named and 27.651 unnamed
Conc: 96.570 of which 41.267 named and 55.303 unnamed

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

Handwritten note: 1,2,3,6,7,8-A

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 4.229 of which 1.227 named and 3.002 unnamed
Conc: 8.458 of which 2.453 named and 6.004 unnamed

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:13
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount: 46.21 of which 16.61 named and 29.60 unnamed
 Conc: 92.42 of which 33.23 named and 59.19 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:04	1.29 y	14.11	99180 77167	20.7 44.8	y	n
	2	31:17	1.11 y	24.13	158349 143155	38.4 64.9	y	n
	3	31:30	1.04 n	1.84	12718 12242	5.3 9.0	y	n
	4	31:39	0.83 n	3.23	22320 26766	6.7 12.4	y	n
	5	31:52	0.75 n	3.32	22967 30607	5.0 18.2	y	n
	6	32:14	1.40 y	2.68	19529 13904	12.1 20.4	y	y
1,2,3,4,7,8-HxCDF	7	32:17	0.97 n	16.50	114998 118426	32.6 85.0	y	y
1,2,3,6,7,8-HxCDF	8	32:24	0.88 n	12.06	88531 100825	23.4 72.5	y	y
	9	32:30	0.88 n	4.84	33461 37835	9.8 27.8	y	y
	10	32:53	1.97 n	2.84	31152 15823	11.1 14.4	y	y
2,3,4,6,7,8-HxCDF	11	32:53	1.61 n	2.78	25454 15823	7.8 14.4	y	y
1,2,3,7,8,9-HxCDF	12	33:33	1.23 y	1.90	11888 9648	5.1 10.7	y	y
	13	33:35	0.53 n	2.21	15278 28831	4.2 18.6	y	y

67

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:18	2.030	n	4.522	47544	10.501	y n
						23418	3.306	y n
	2	32:32	2.517	n	1.483	19326	4.836	y n
						7679	2.029	n n
1,2,3,6,7,8-HxCDD	3	33:07	1.651	n	1.404	12384	6.159	y n
						7500	1.752	n n
1,2,3,7,8,9-HxCDD	4	33:21	2.785	n	1.049	15868	4.294	y n
						5697	2.110	n n

Totals Results TestAmerica West Sacramento Page 8 of 9

Run Text: L8VH8-1-AA Sample text: L8VH8-1-AA :G0J210484-13 RI

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 49.242 of which 34.652 named and 14.590 unnamed
 Conc: 98.483 of which 69.304 named and 29.179 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:53	1.121	y	51.540	347634	76.507	y n
						310089	82.031	y n
	2	35:06	1.144	y	10.881	67148	15.009	y n
						58690	14.702	y n
	3	35:12	1.138	y	18.298	112641	20.620	y n
						98975	24.750	y n
1,2,3,4,7,8,9-HpCDF	4	36:03	0.946	y	17.764	89547	15.134	y n
						94641	20.641	y n

Run Text: L8VH8-1-AA

Sample text: L8VH8-1-AA :G0J210484-13 RI

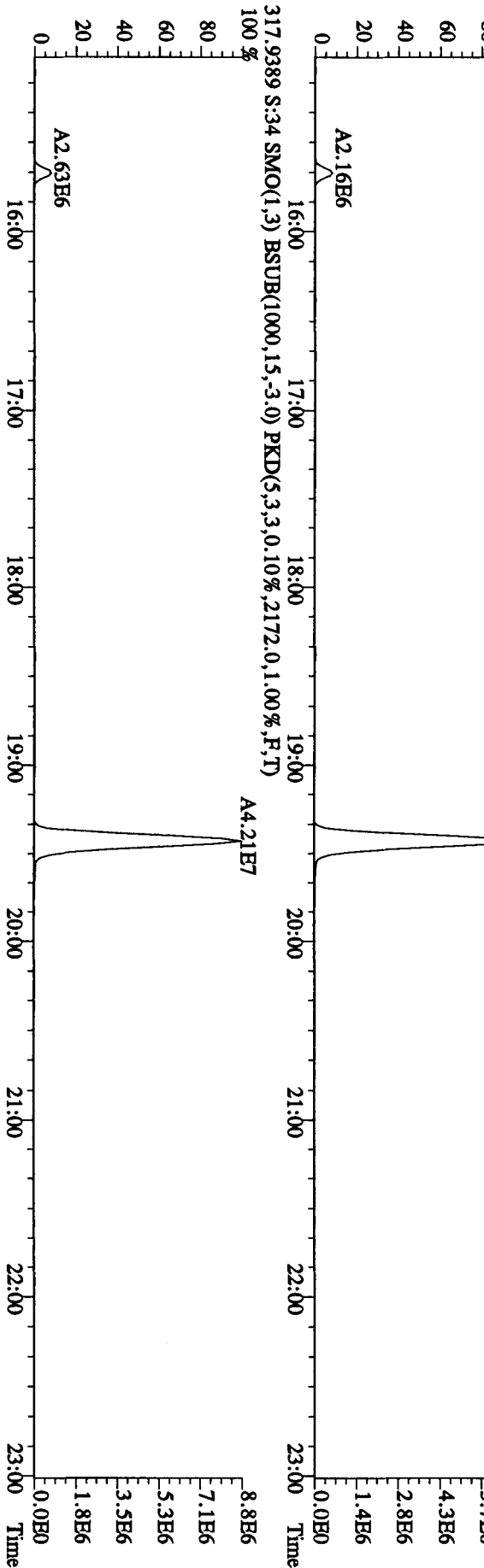
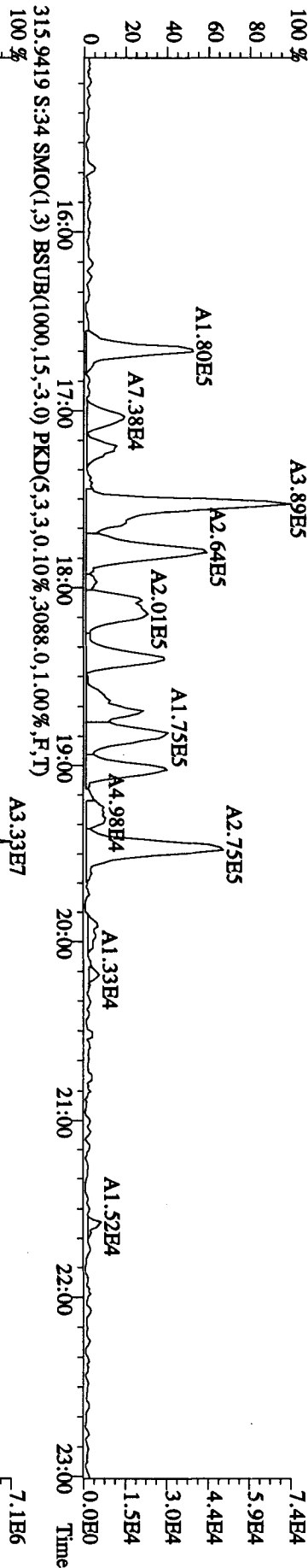
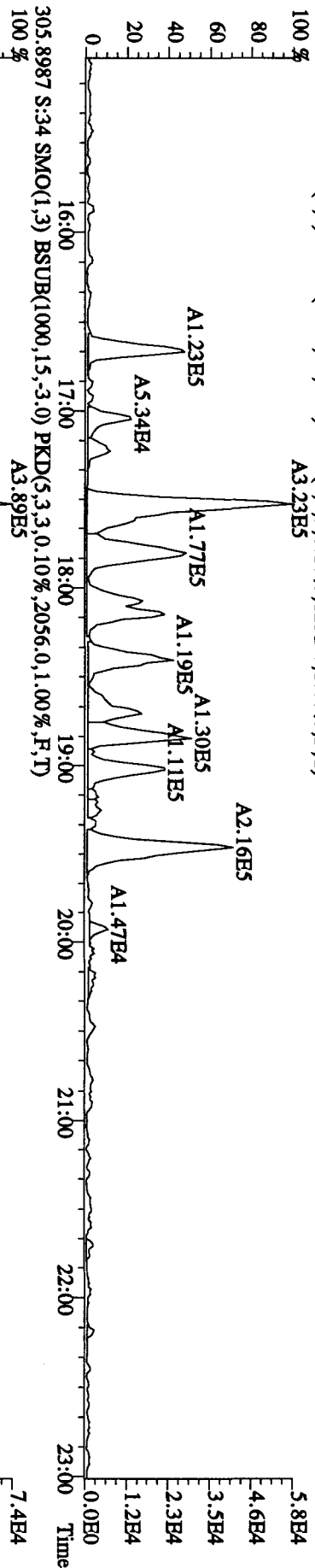
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
 Run: 16 File: 28OC104D5 S:34 Acq:29-OCT-10 10:09:00
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 8.137 of which 3.163 named and 4.975 unnamed
 Conc: 16.274 of which 6.325 named and 9.949 unnamed

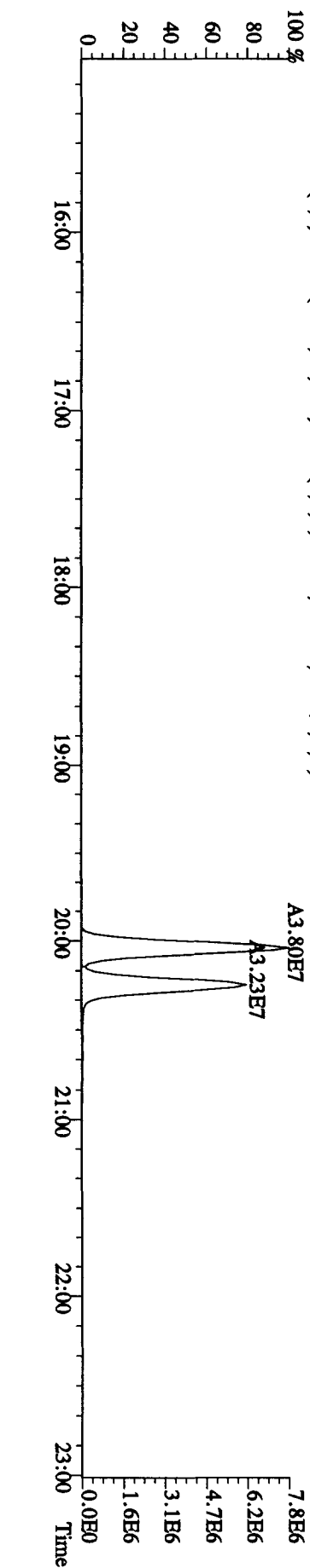
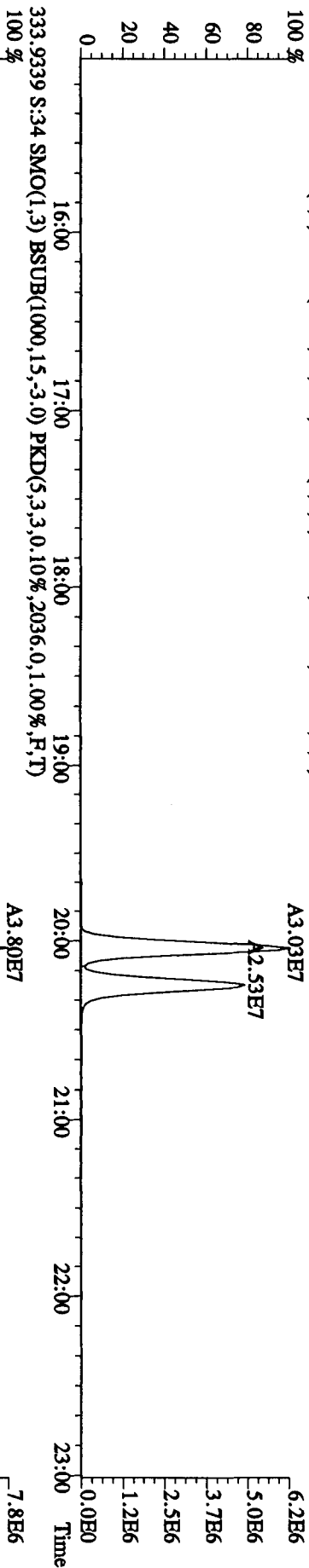
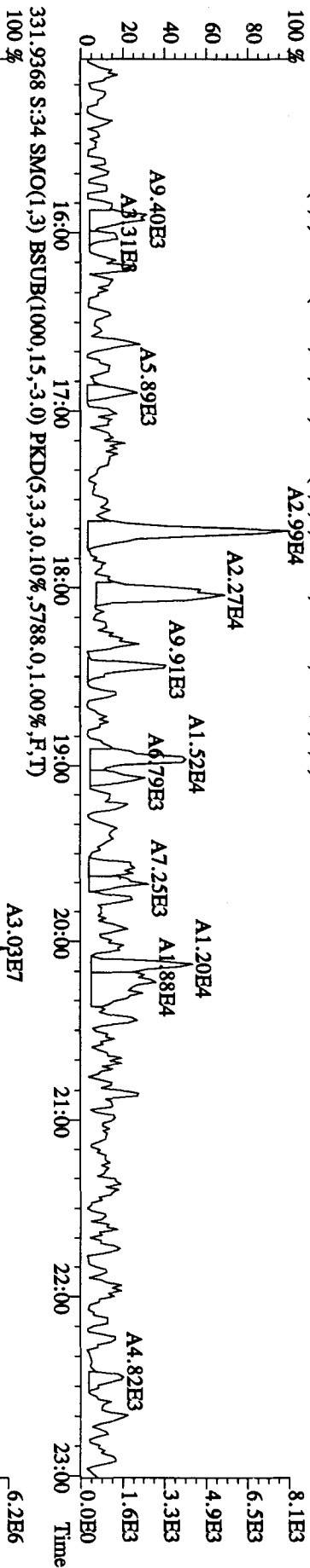
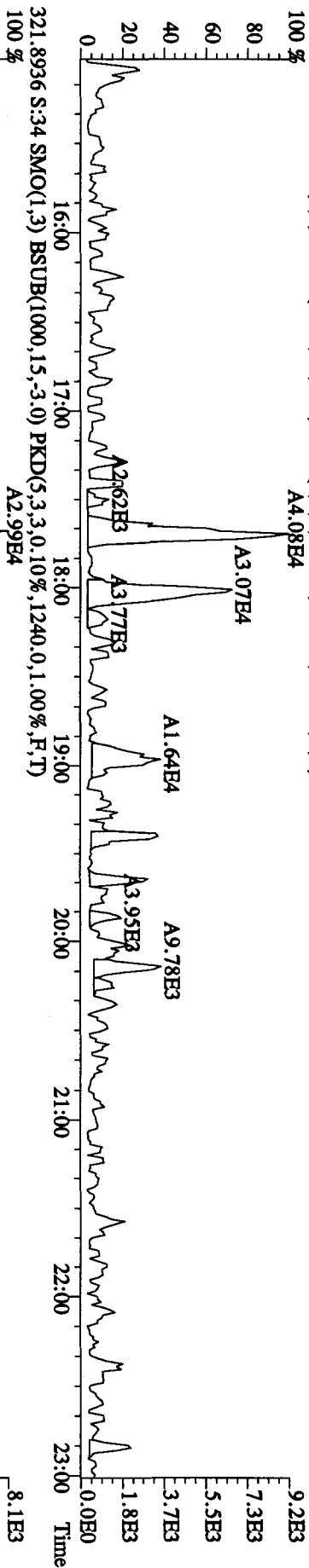
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:53	1.236	n	1.863	11044	3.560	y n
						8939	4.007	y n
	2	35:09	1.023	y	6.275	31054	10.255	y n
							30358	13.299	y n
1,2,3,4,6,7,8-HpCDD	3	35:44	1.132	y	6.325	32862	6.977	y n
							29041	10.627	y n
	4	35:53	2.246	n	0.576	6203	3.042	y n
						2762	2.178	n n
	5	36:02	1.883	n	1.235	11162	3.726	y n
						5927	2.944	n n

12.0

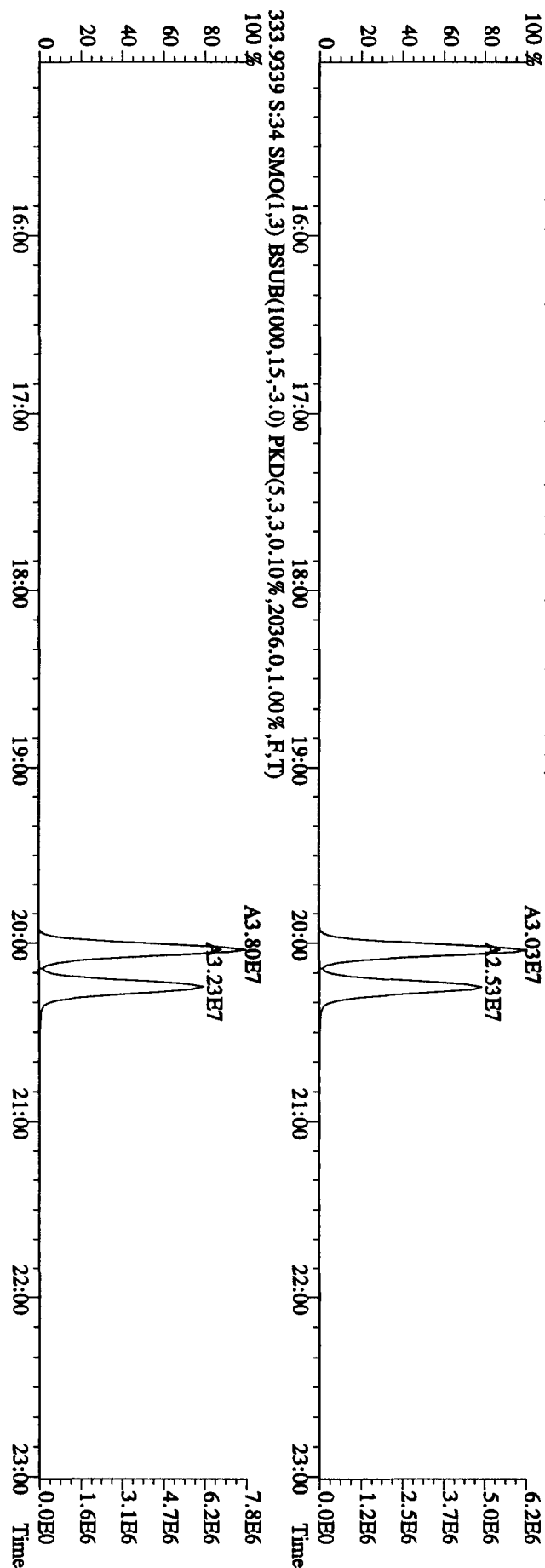
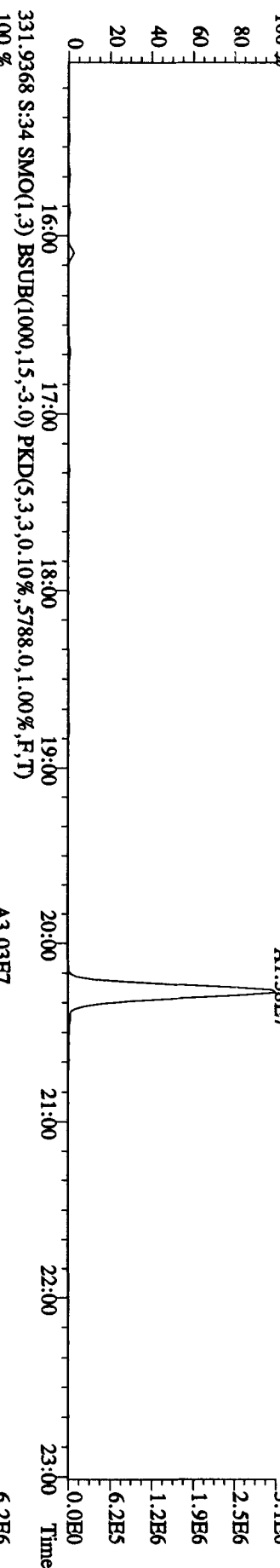
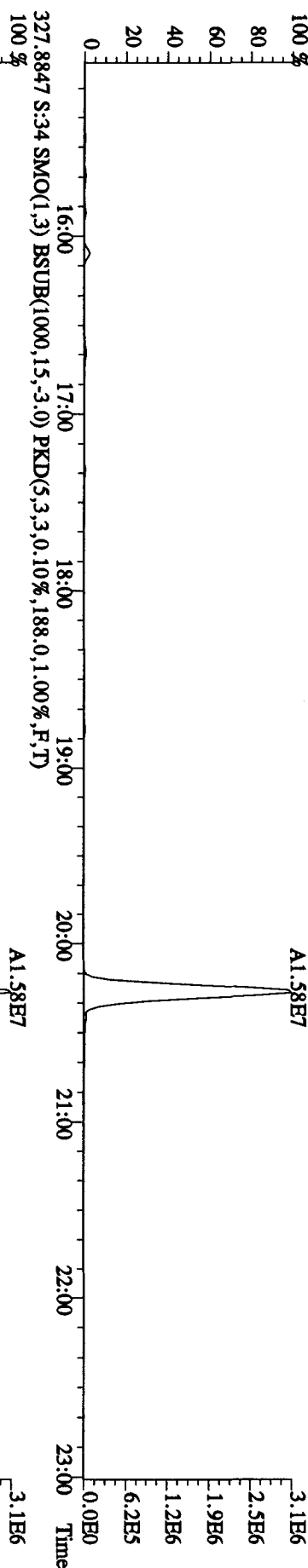
File:280C104D5 #1-530 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 303.9016 S:3:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1232.0,1.00%,F,T)
 100 % A3.23E5



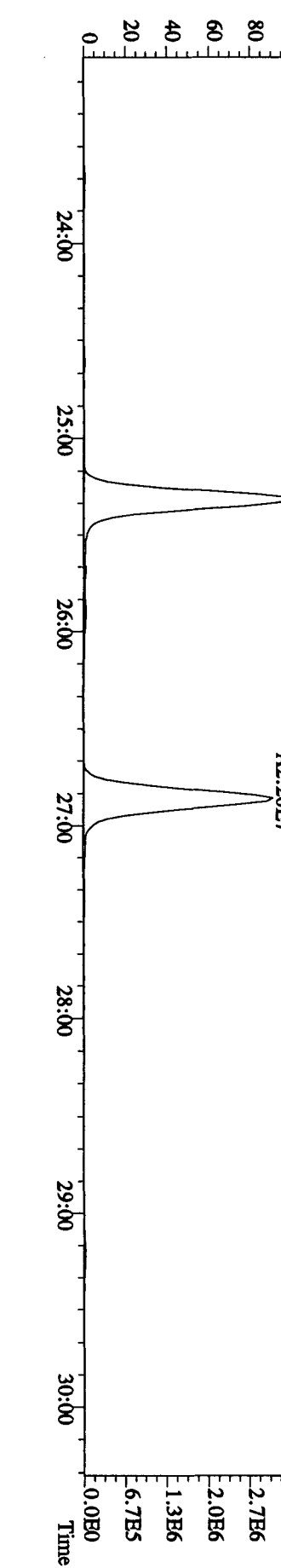
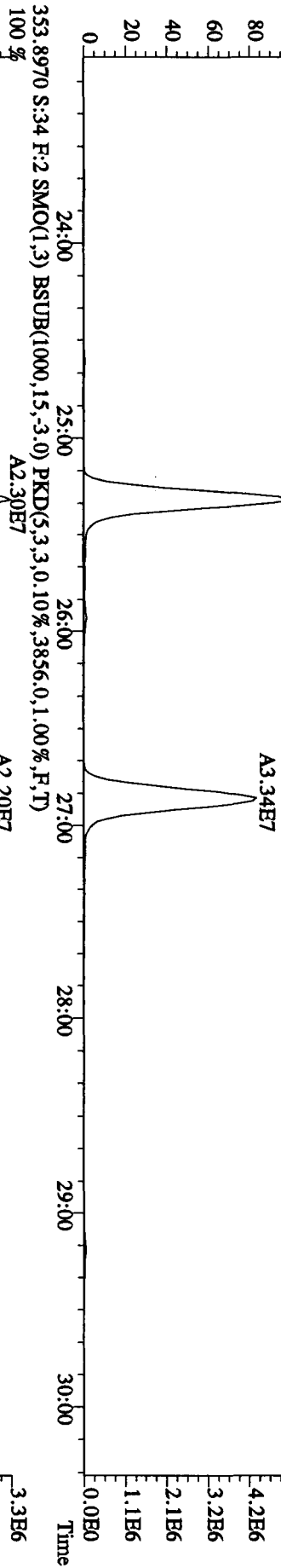
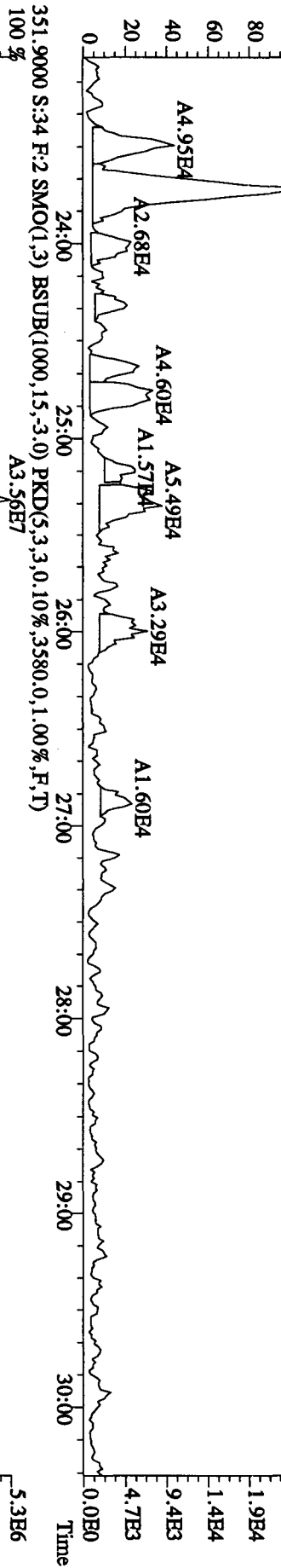
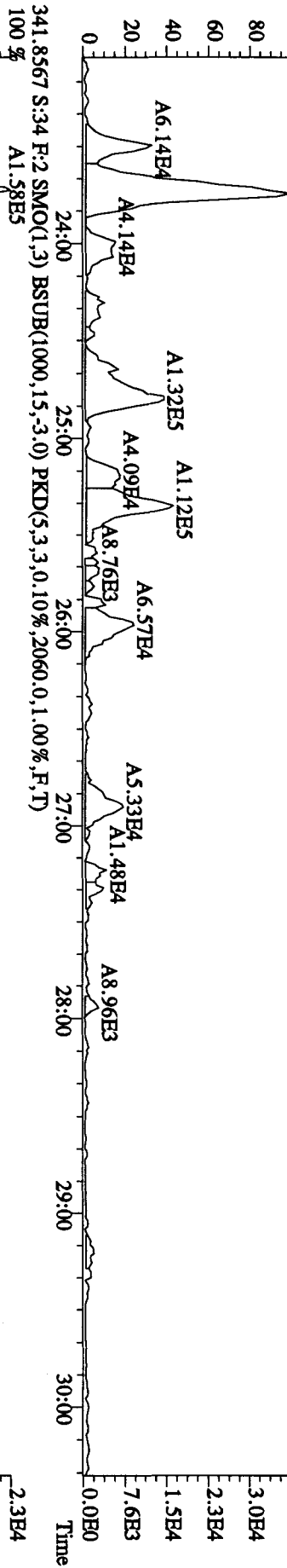
File:28OC104D5 #1-530 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 319.8965 S:3:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1028.0,1.00%,F,T)
 100 % A4.08E4



File:280C104D5 #1-530 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 327.8847 S:34 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)

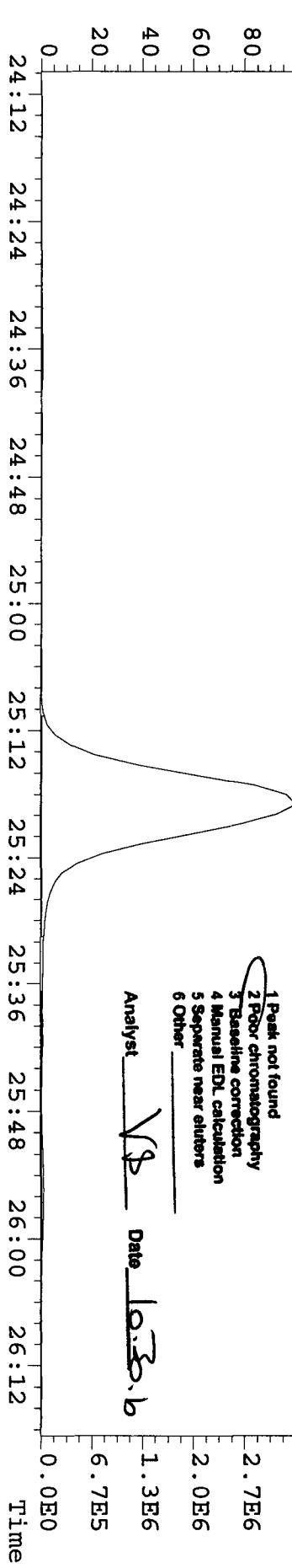
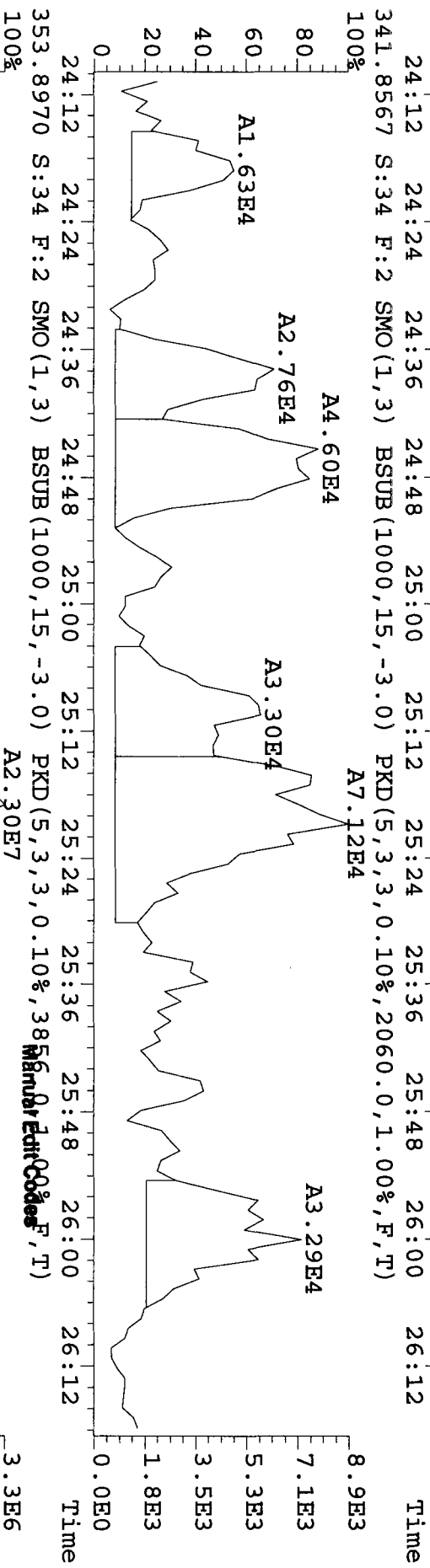
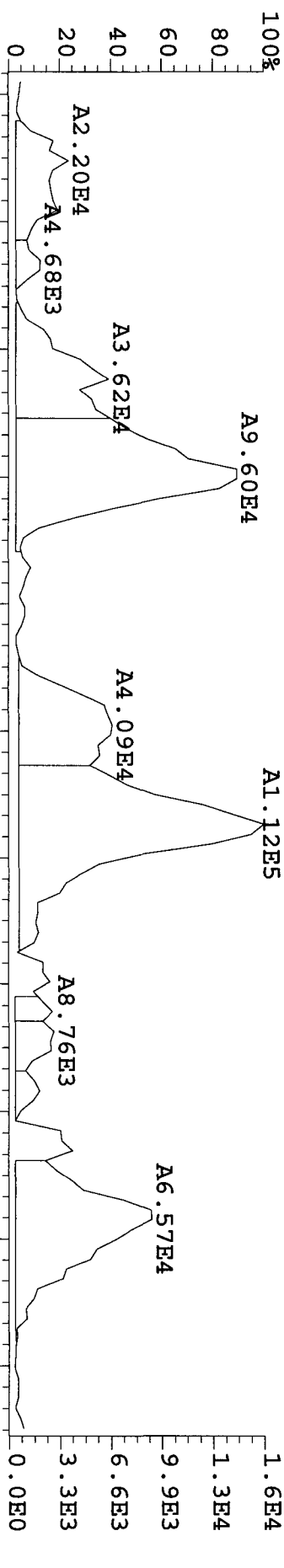


File:28OC104D5 #1-470 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 339.8597 S:3.4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,780.0,1.00%,F,T)
 100 % A2.63E5



Sample#34 Text:L8VH8-1-AA :G0J210484-13 Exp:DIOXINRES

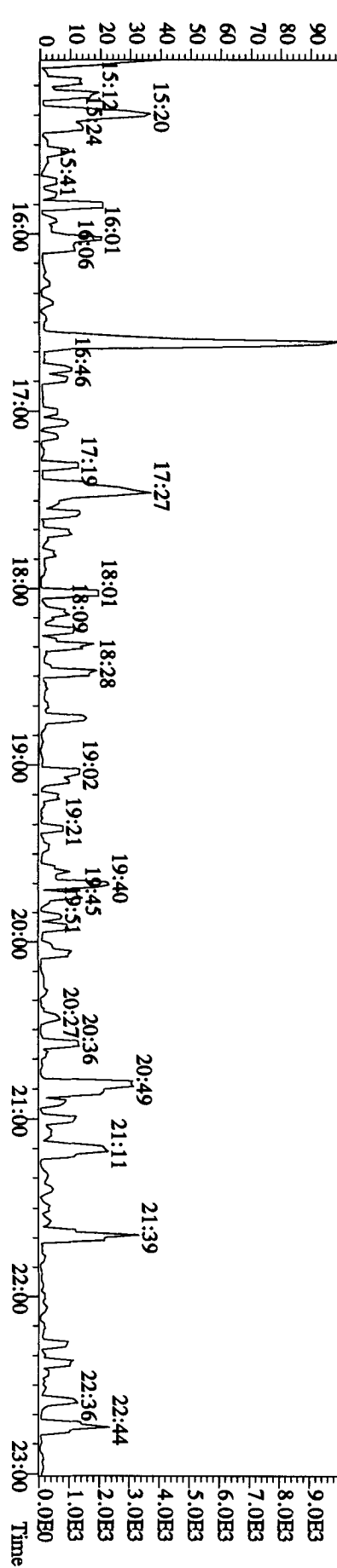
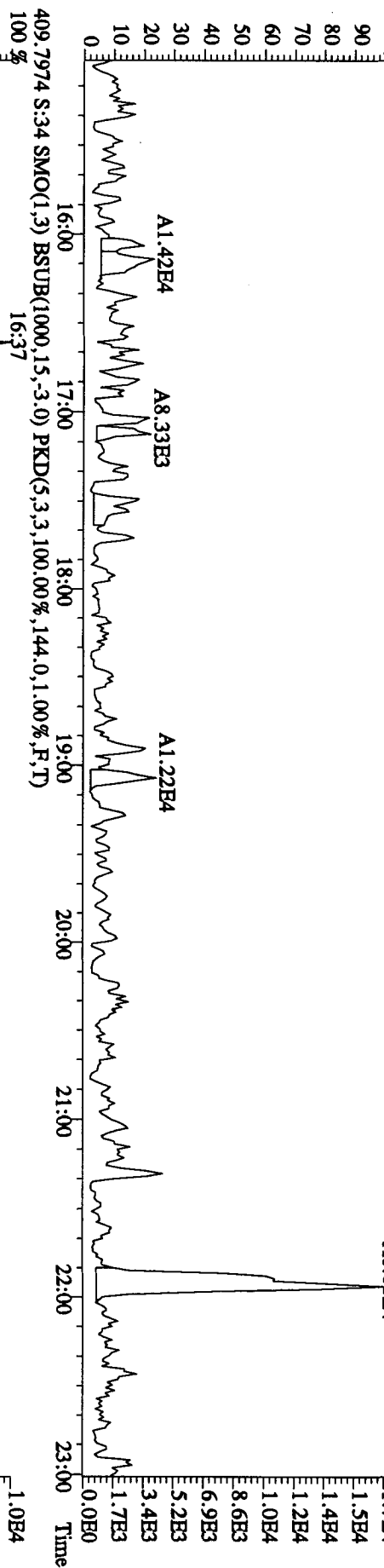
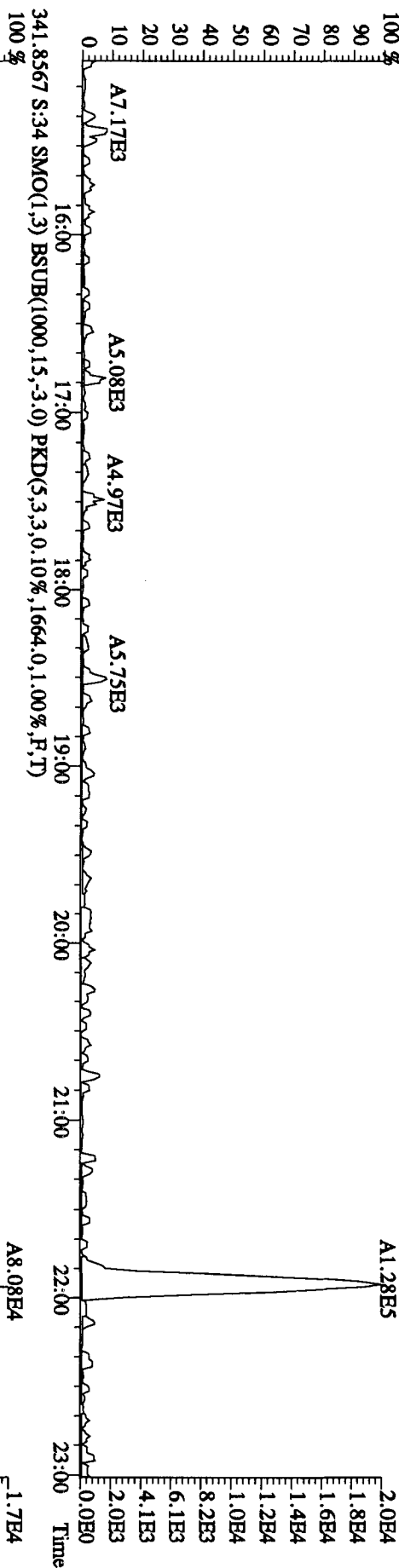
339.8597 S:34 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,780.0,1.00%,F,T)

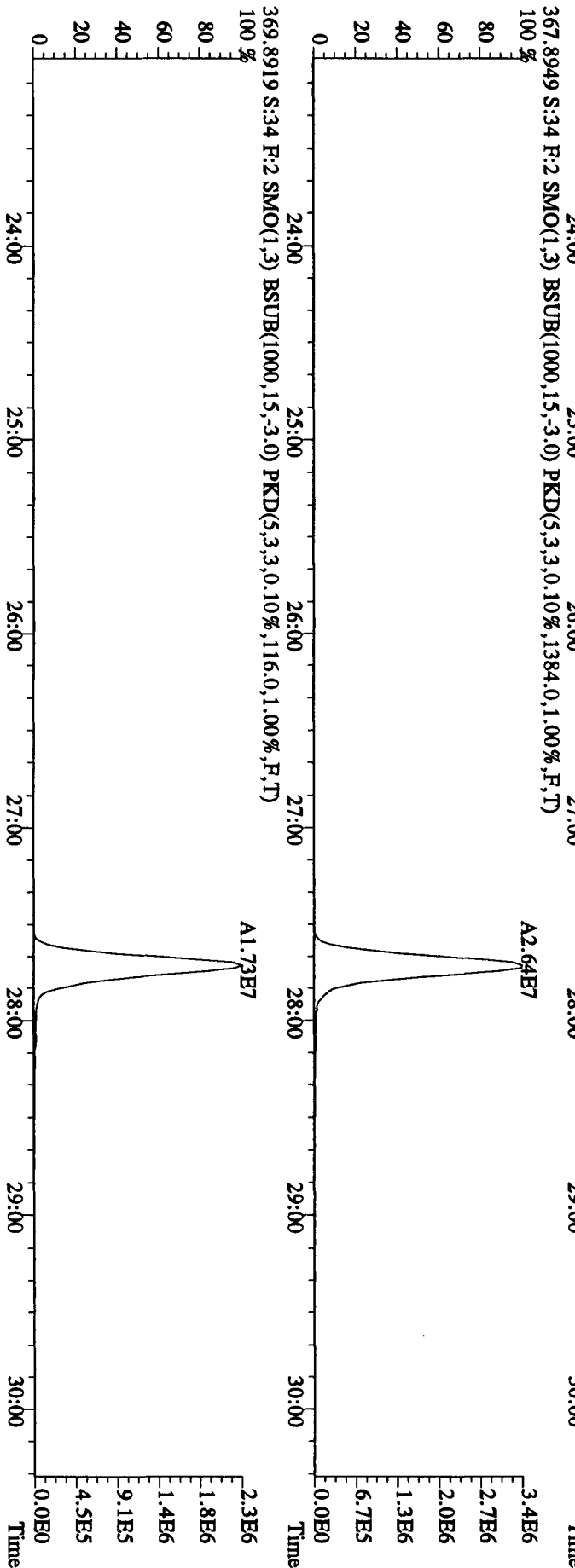
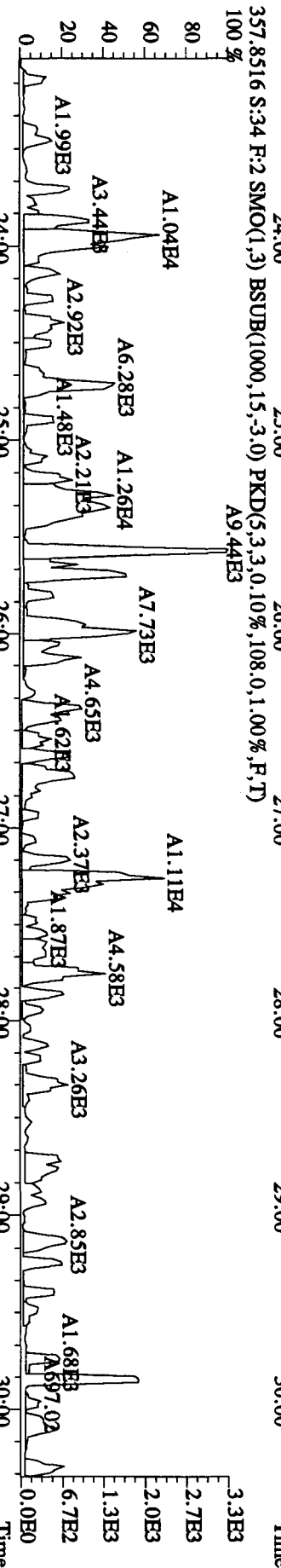
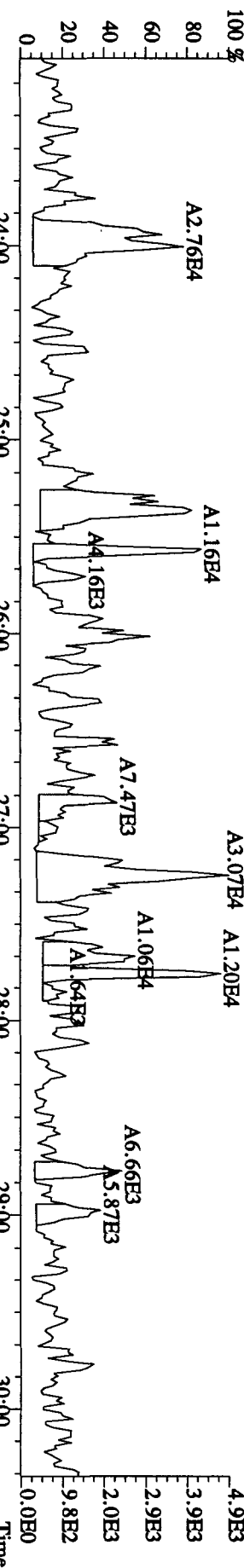


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VS Date 10-30-06

File:280C104D5 #1-530 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage:5kV SIR Autospec-Ultimate
 Sample#34 Text:18VH8-1-AA :G0J210484-13 RI Exp.:DIOXINRES
 339.8597 S:34 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,168.0,1.00%,F,T)



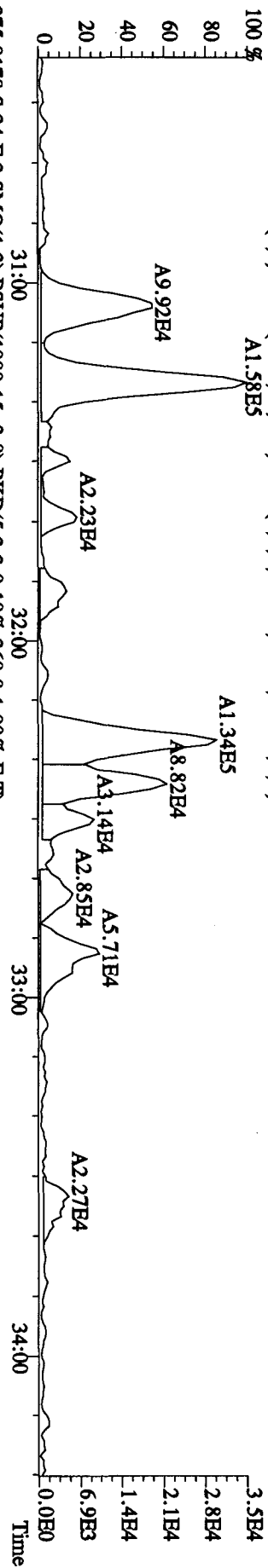


File:280C104D5 #1-286 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaB

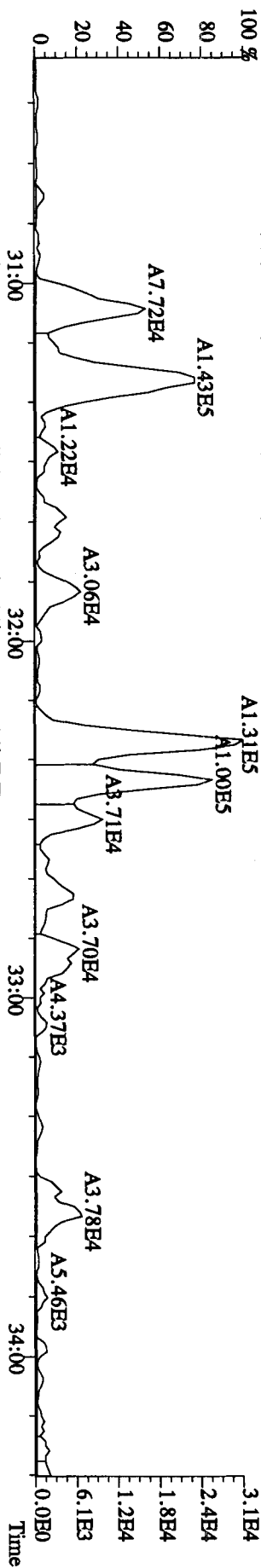
Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES

373.8208 S:3.4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.892,0,1,00%,F,T)

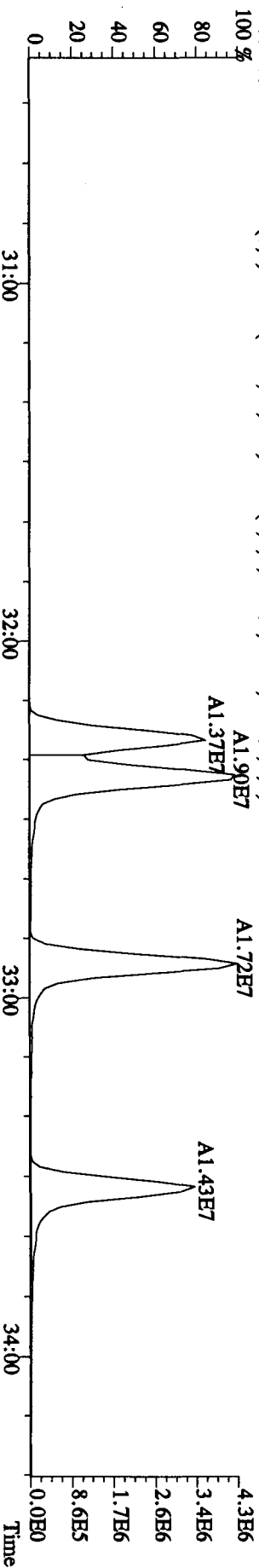
A1.58E5



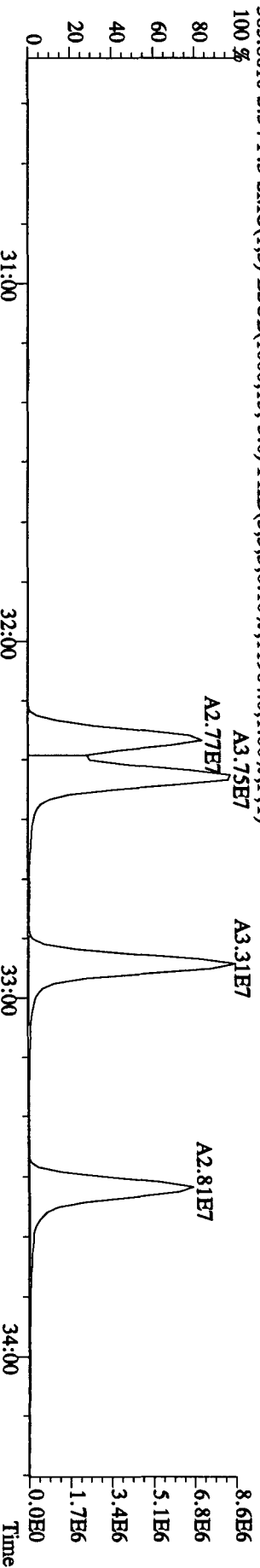
375.8178 S:3.4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.360,0,1,00%,F,T)



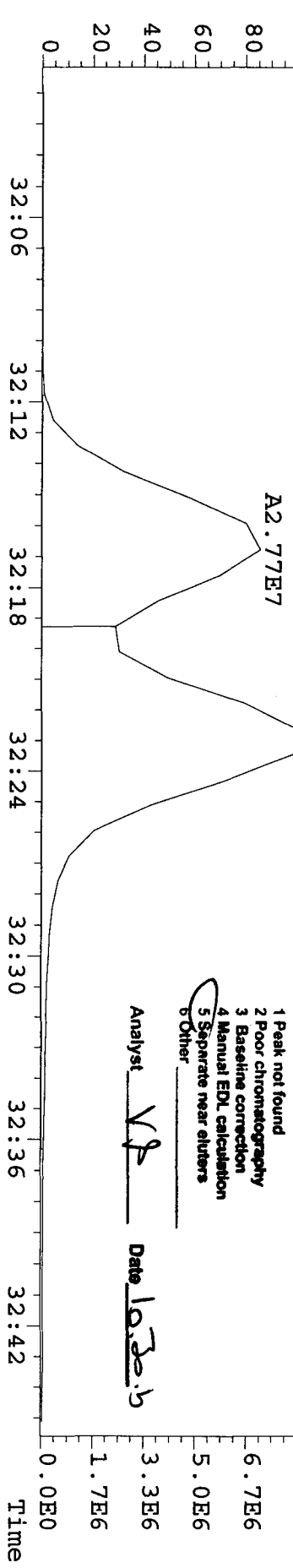
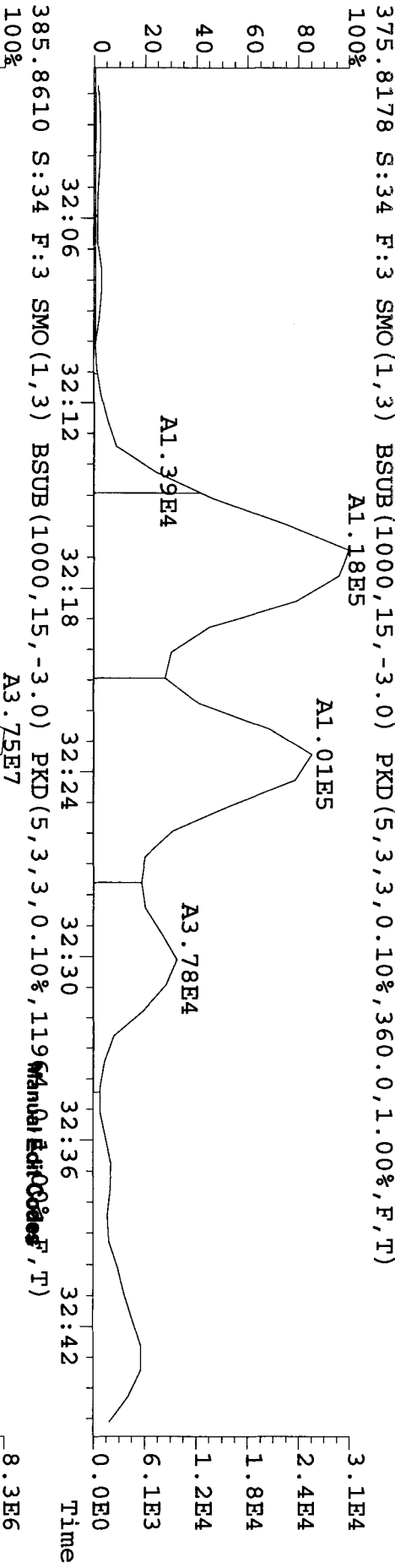
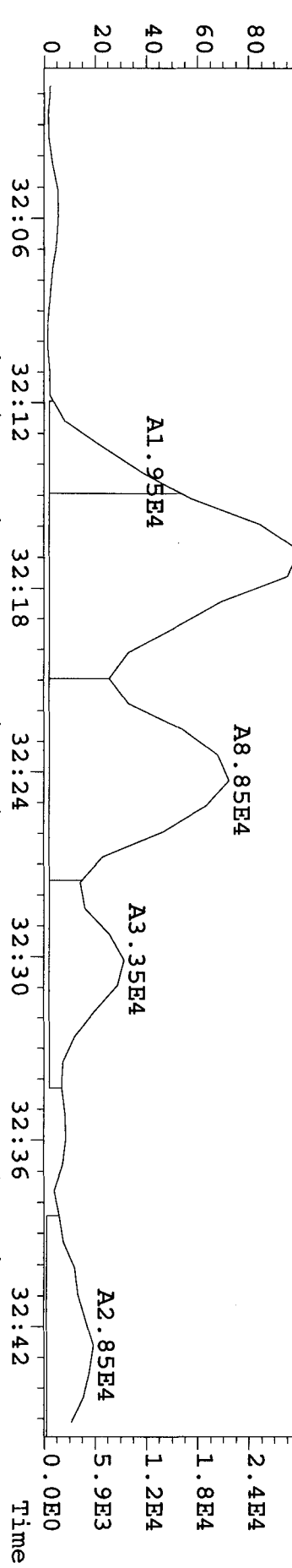
383.8639 S:3.4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,172,0,1,00%,F,T)



385.8610 S:3.4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11964,0,1,00%,F,T)



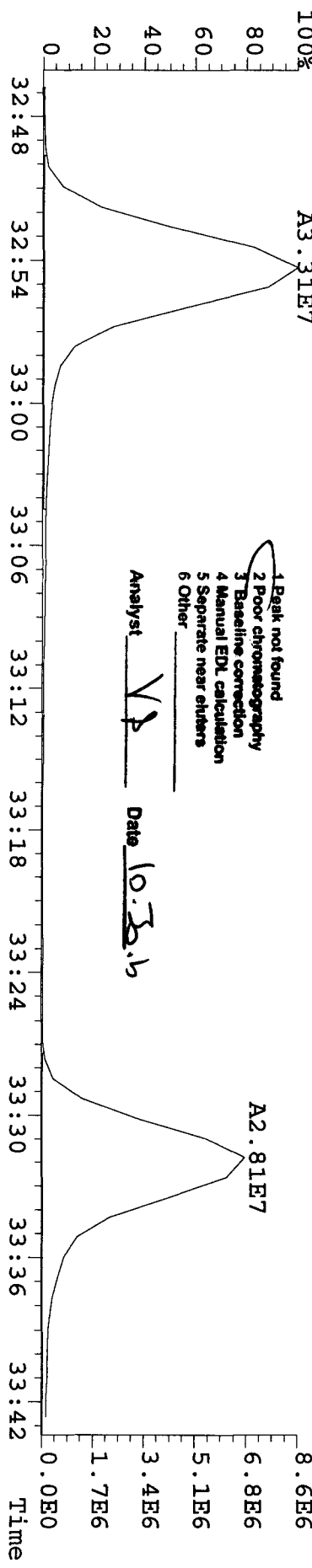
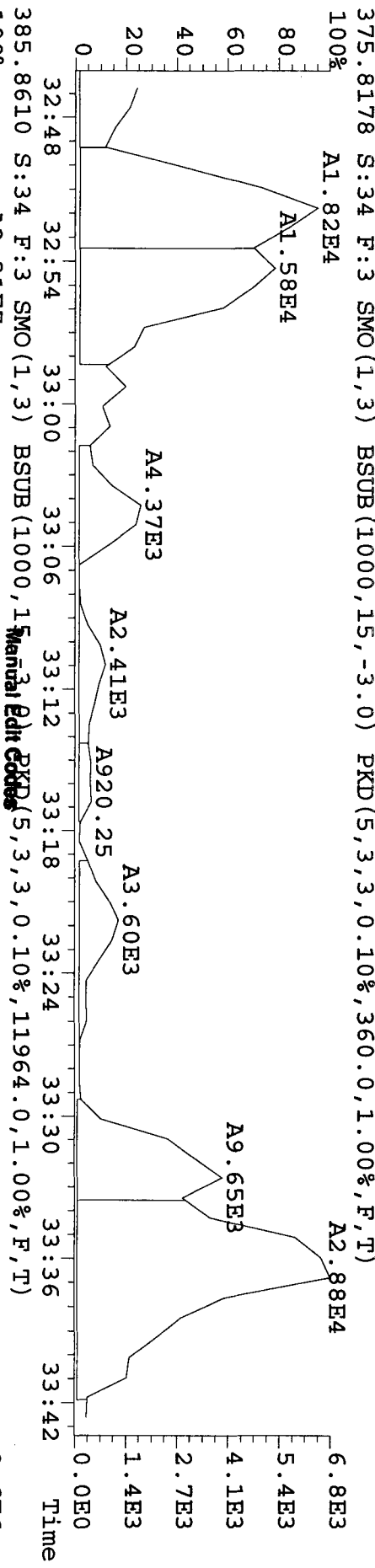
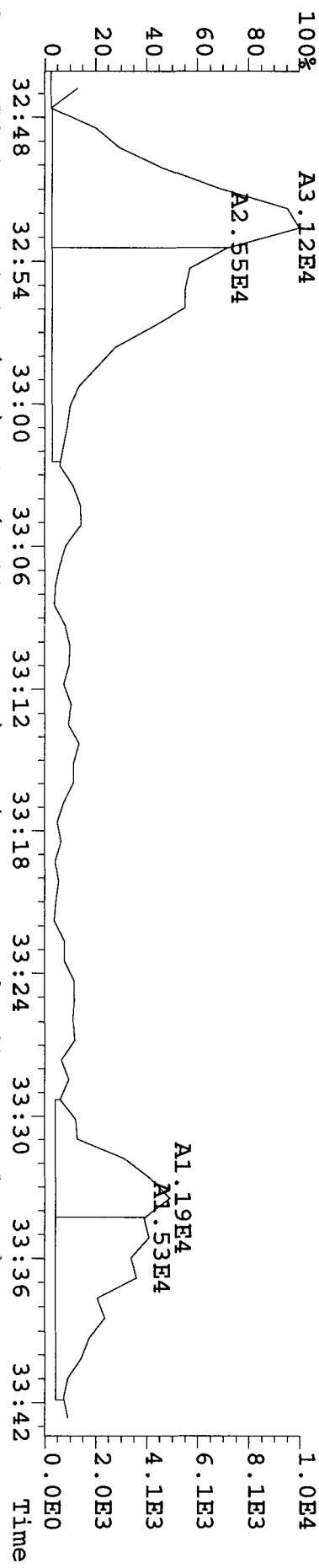
File:280C104D5 #1-286 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 Exp:DIOXINRES
 373.8208 S:34 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)
 100%



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

Analyst VP Date 10.30.10

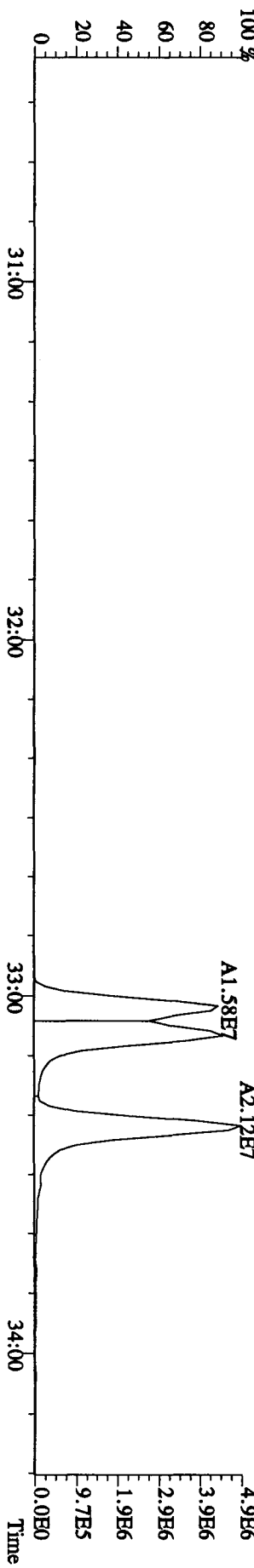
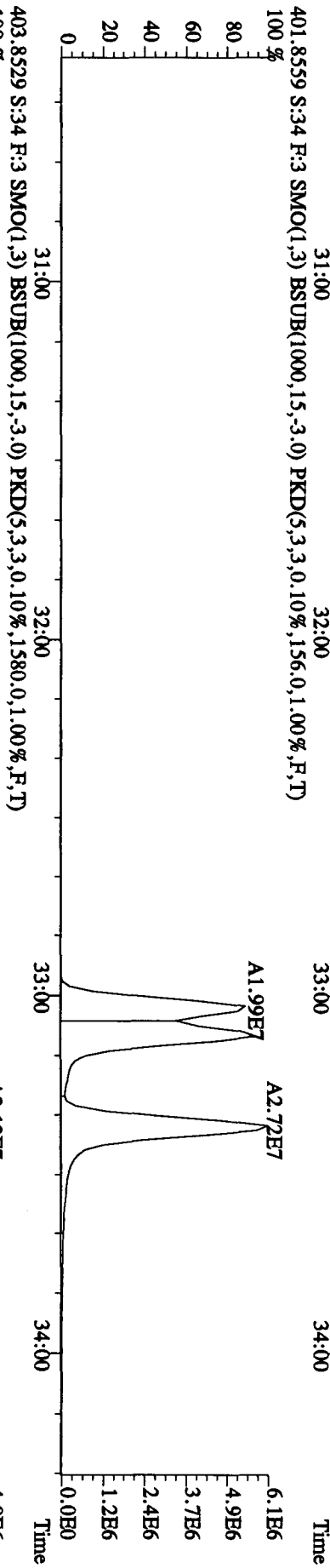
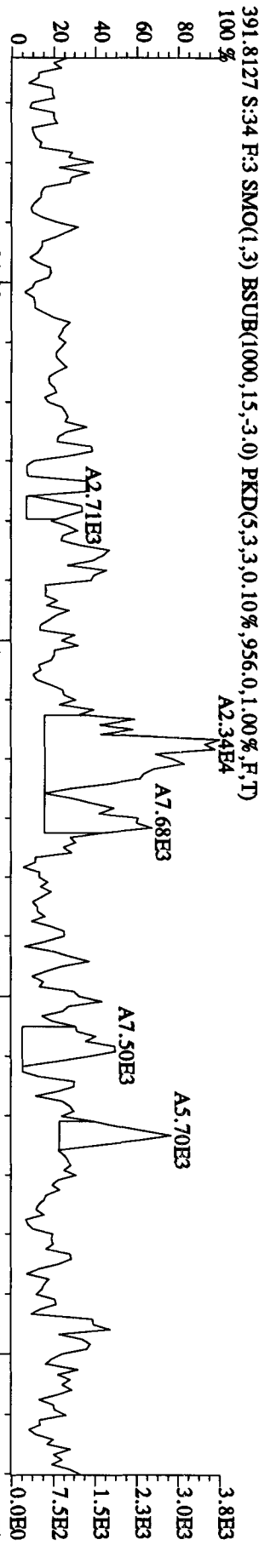
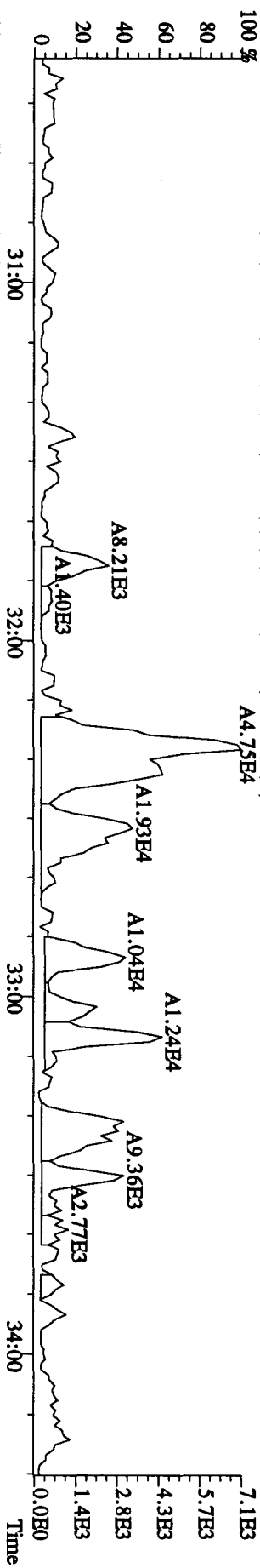
File:280C104D5 #1-286 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 Exp:DIOXINRES
 373.8208 S:34 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)



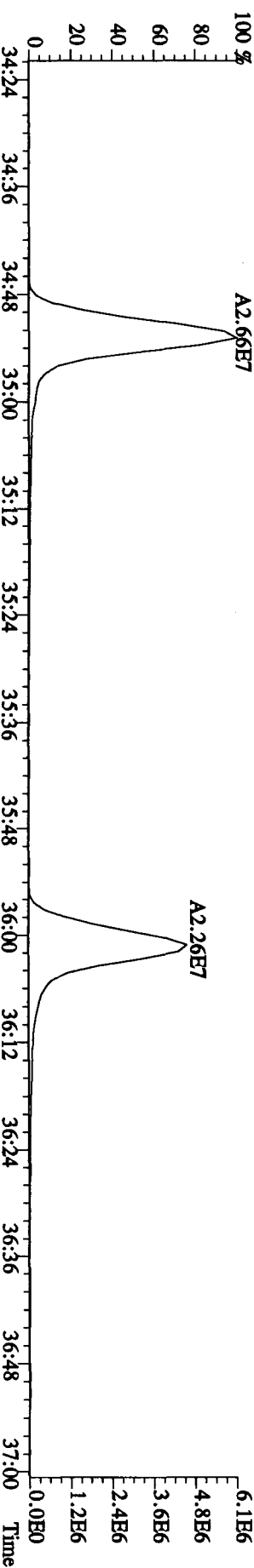
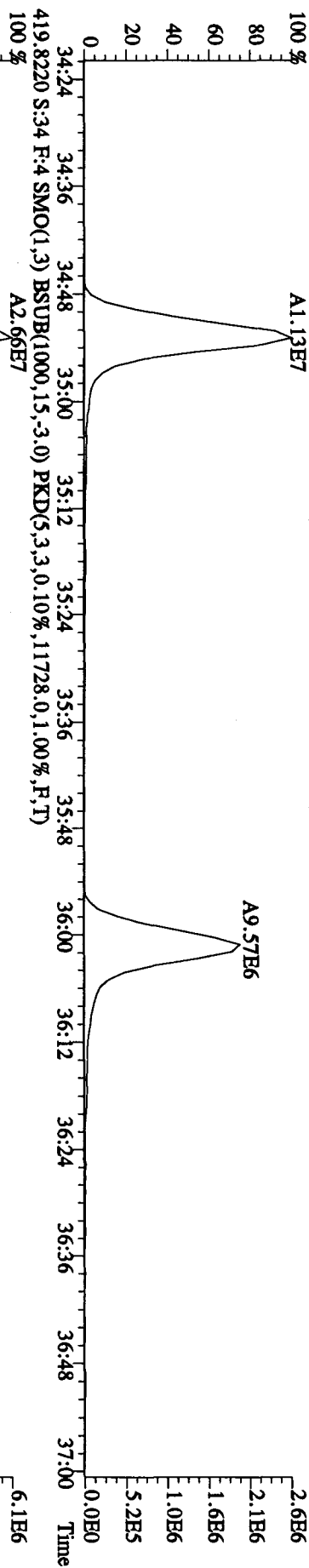
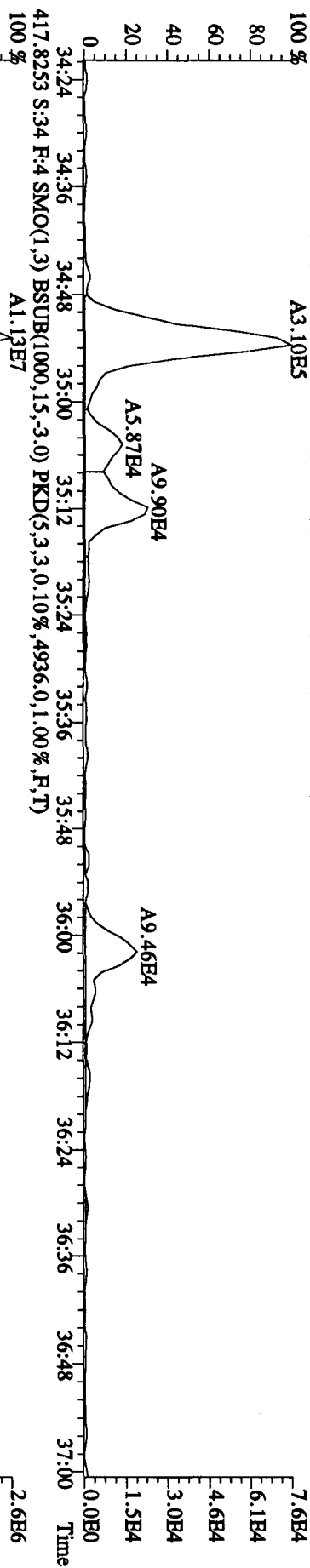
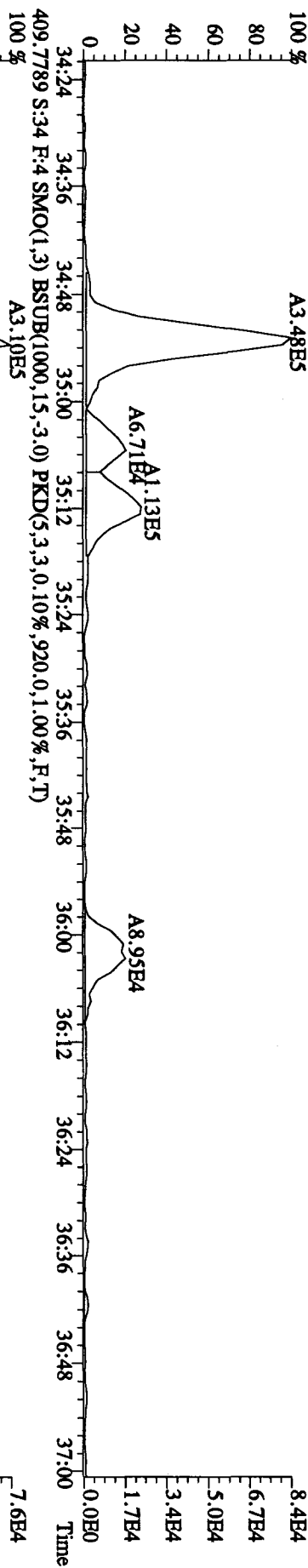
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VP Date 10-3-10

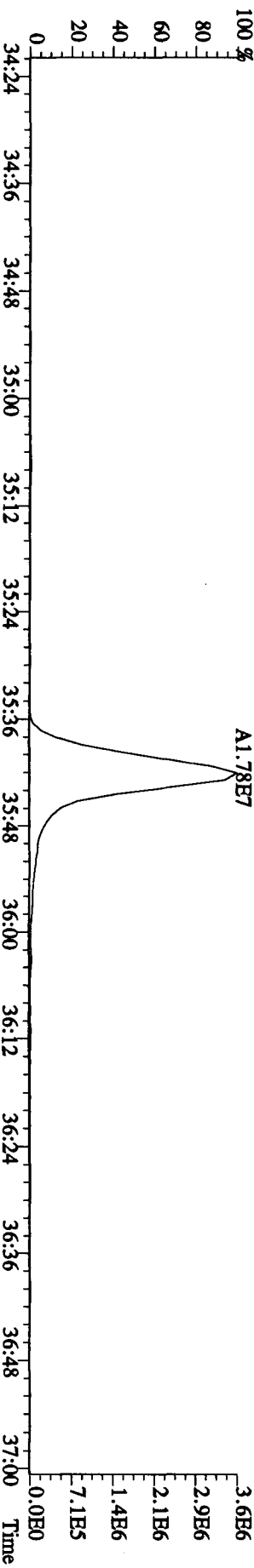
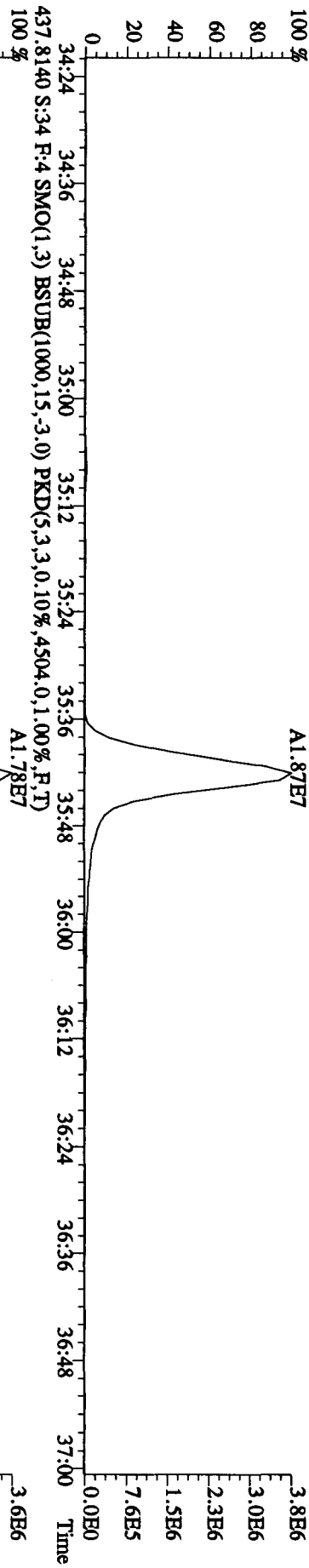
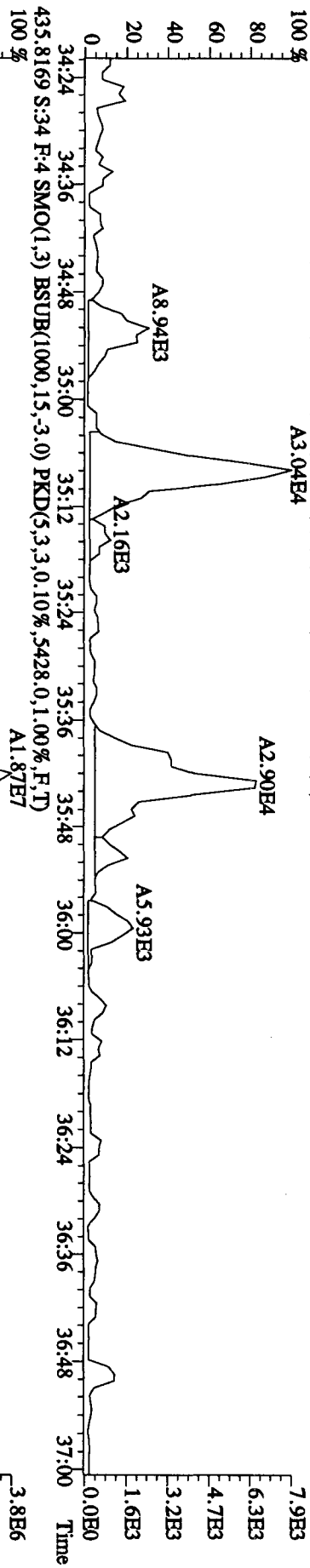
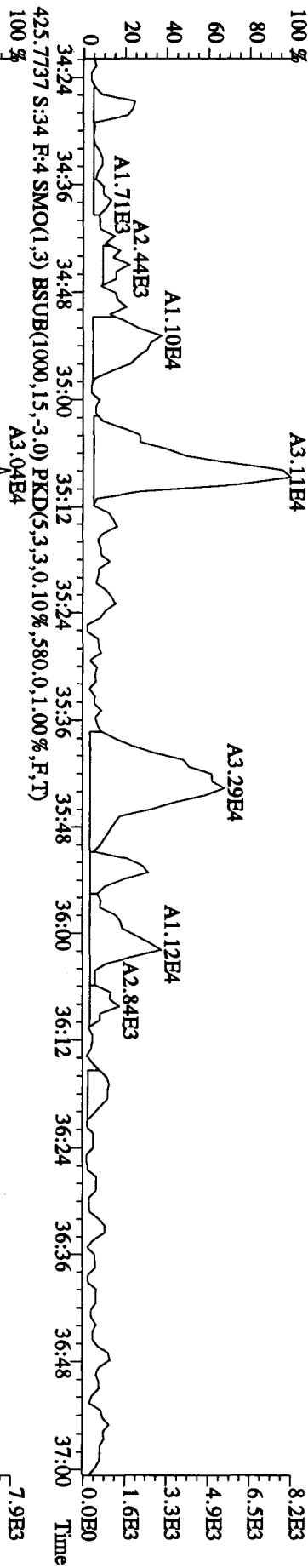
File:28OC104D5 #1-286 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0210484-13 RI Exp:DIOXINRES
 389.8157 S:3.4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)



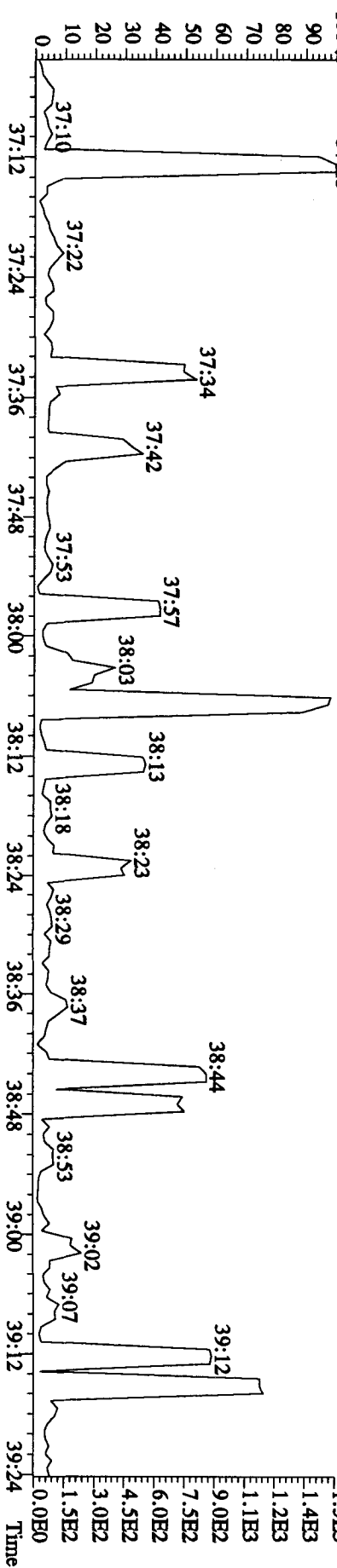
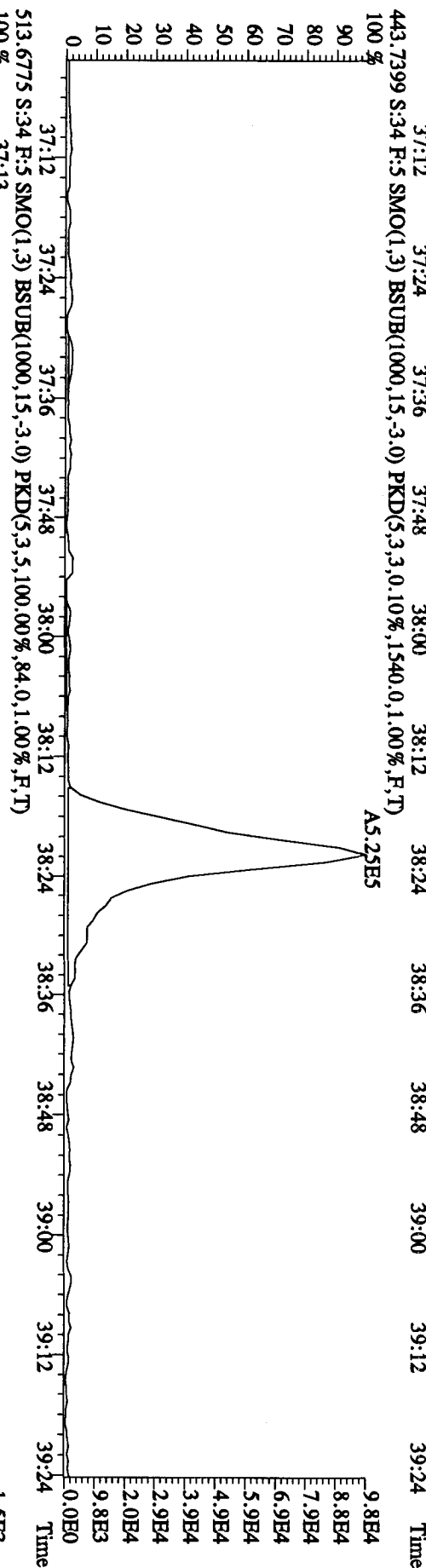
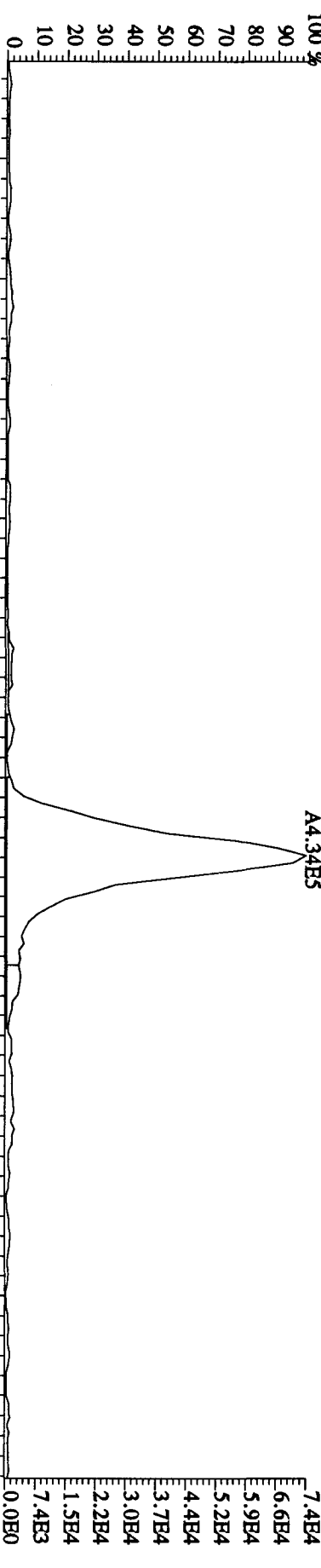
File:280C104D5 #1-201 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#34 Text:L8VH8-1-AA :C01210484-13 RI Exp:DIOXINRES
 407.7818 S:34 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1080.0,1.00%,F,T)
 100% A3.48E5



File:280C104D5 #1-201 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 423.7766 S:3.4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,756.0,1.00%,F,T)
 100 %



File: 280C104D5 #1-192 Acq: 29-OCT-2010 10:09:00 GC EI+ Voltage: 519V Autospec-Ultimate
 Sample#34 Text: L8VH8-1-AA : G0J210484-13 RI Exp: DIOXINRES
 441.7428 S:3.4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,888.0,1.00%,F,T)



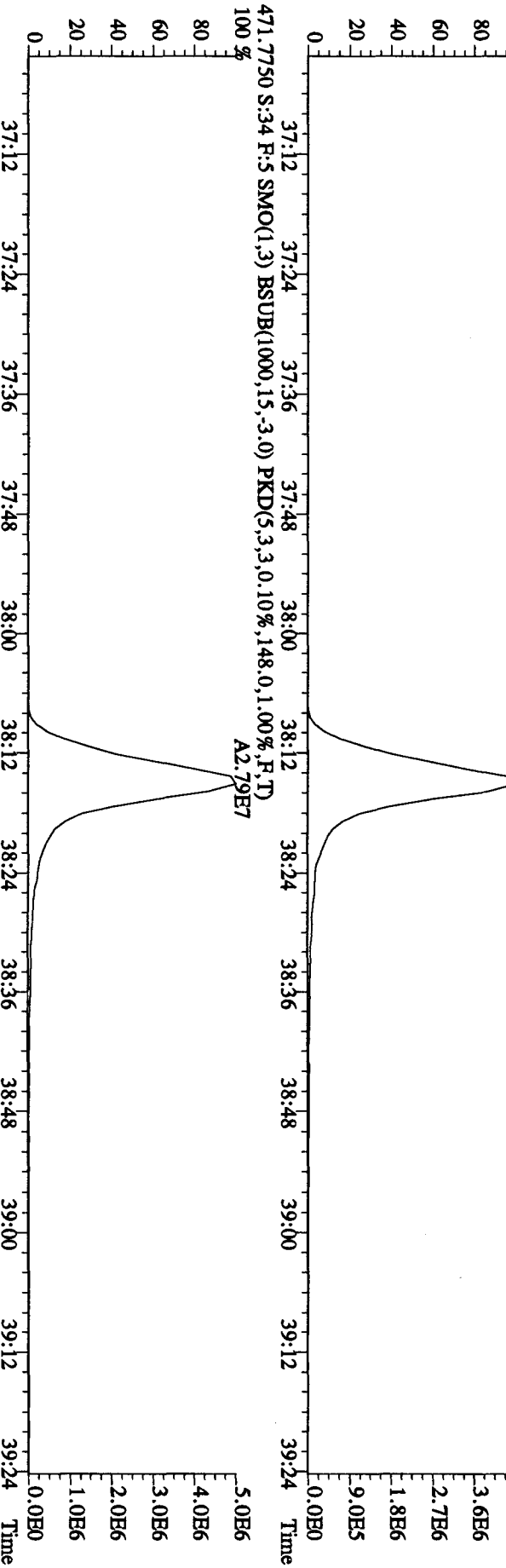
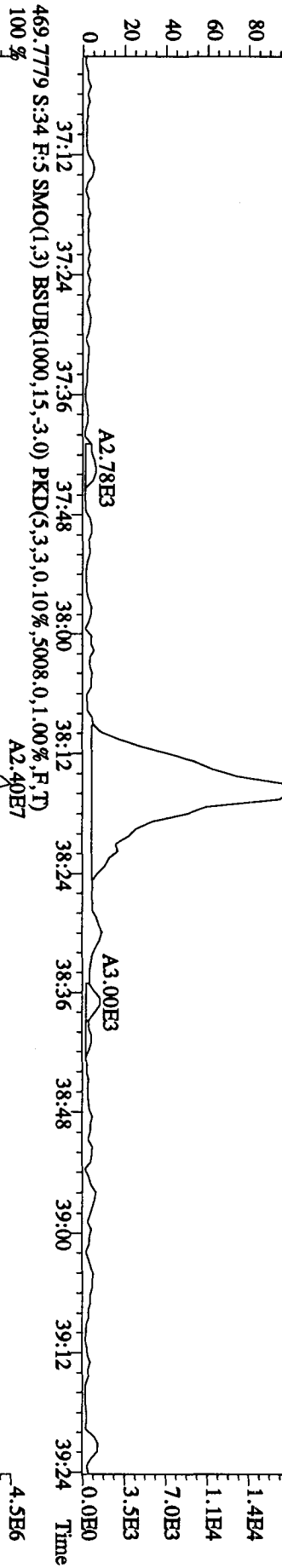
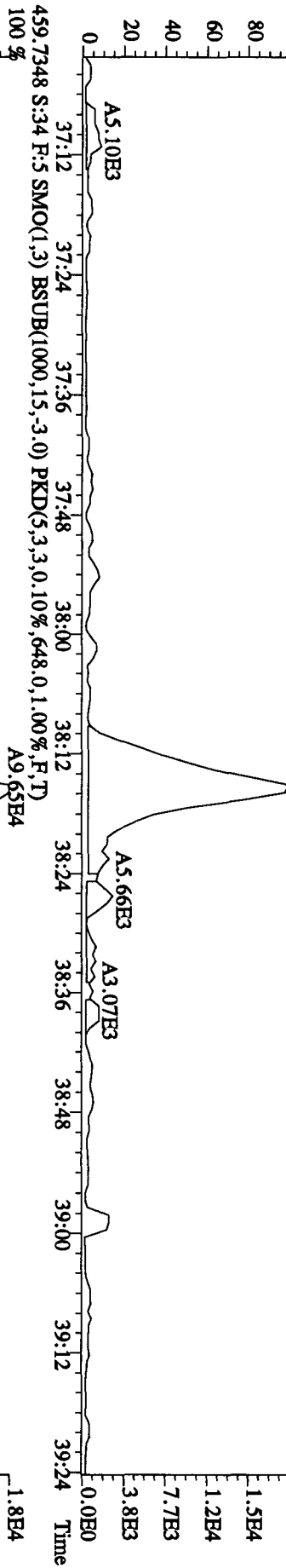
File:28OC104D5 #1-192 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate

Exp:DIOXINRES

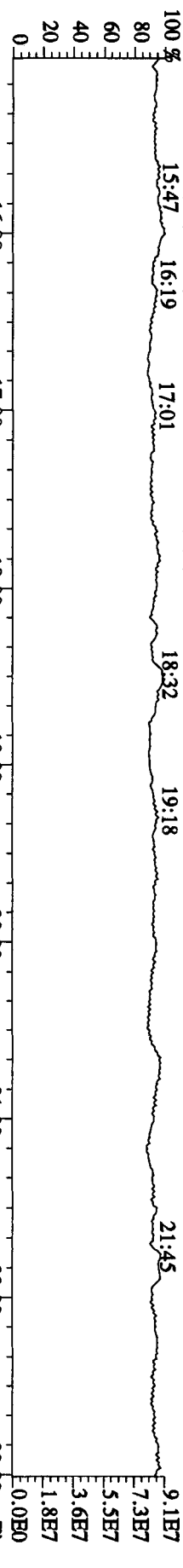
Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI

A9.77E4

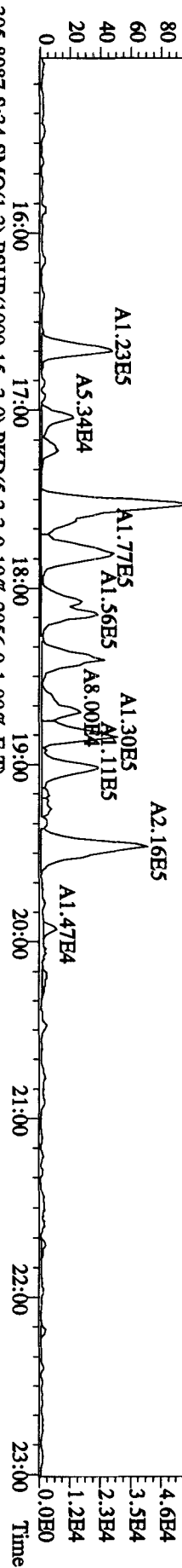
1.9E4



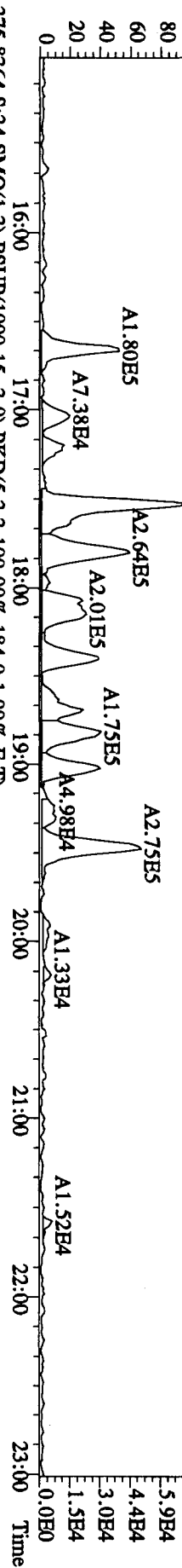
File:280C104D5 #1-530 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 292.9825 S:3:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T) 15:47 16:19 17:01 18:32 19:18 21:45



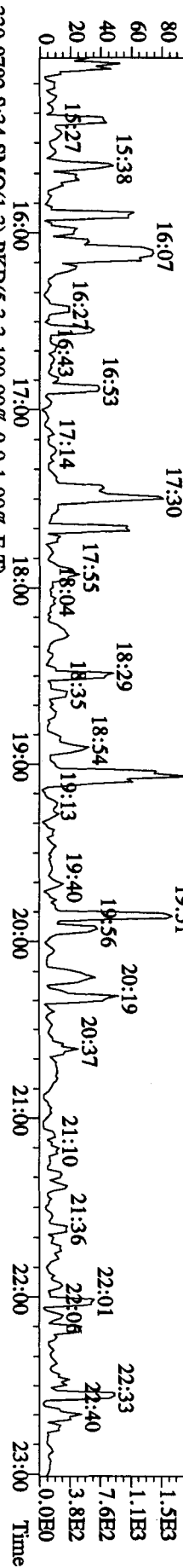
303.9016 S:3:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1232.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



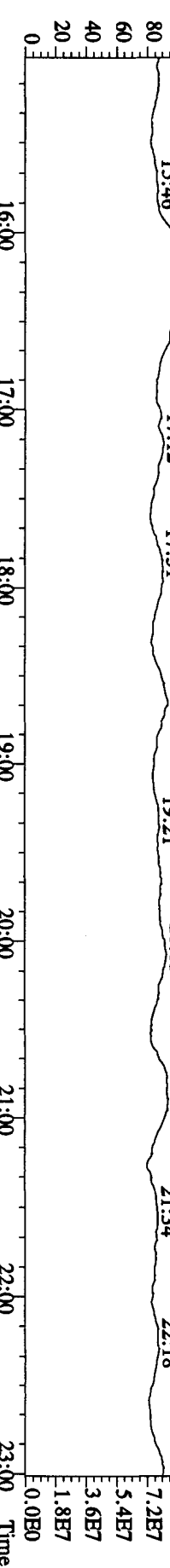
305.8987 S:3:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

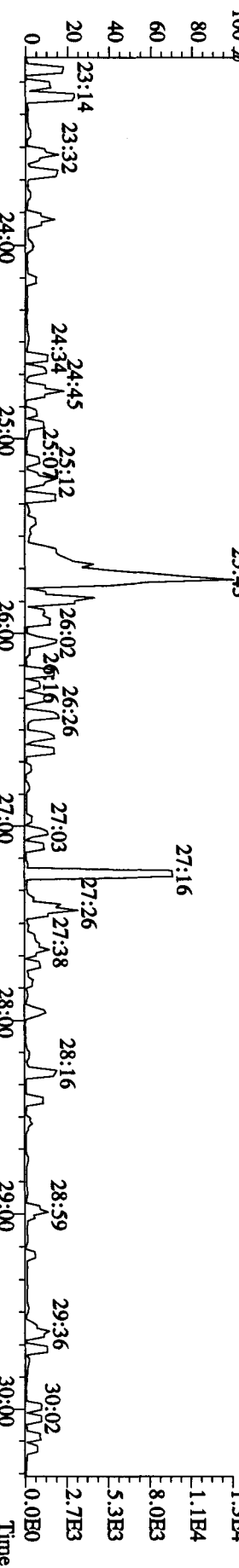
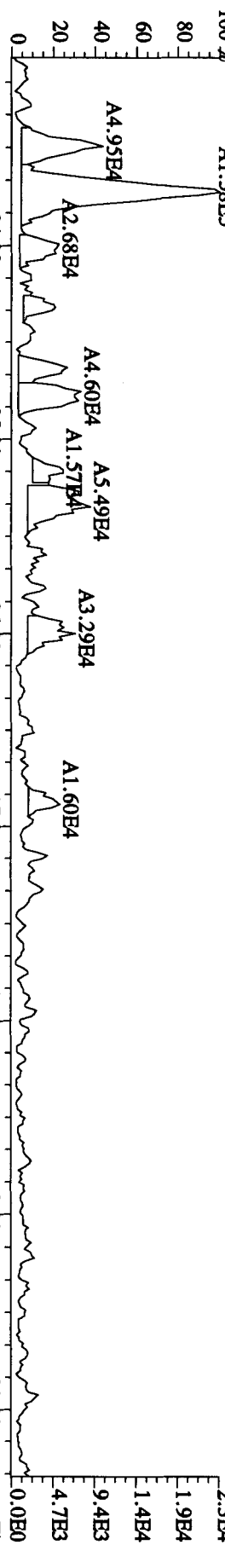
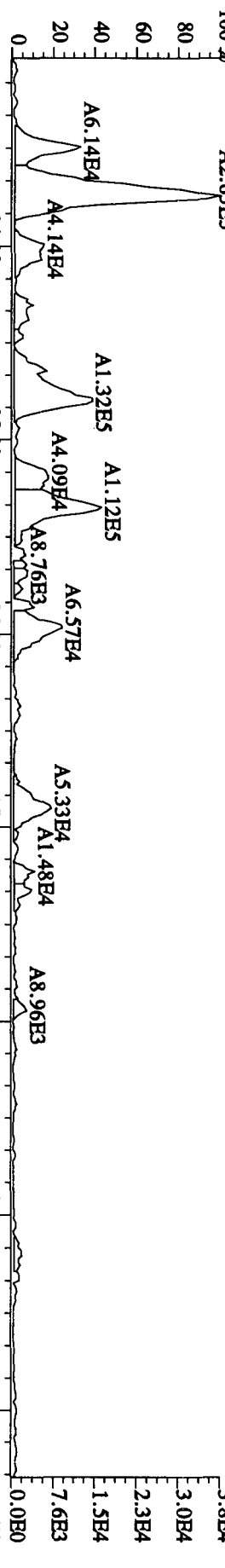
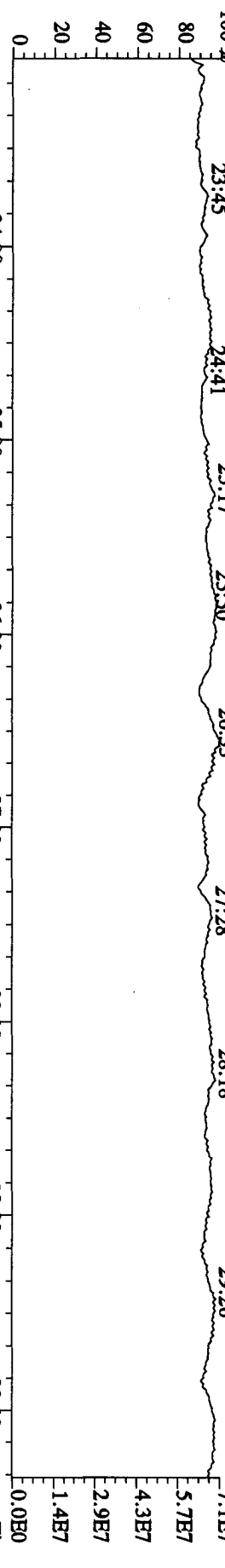


375.8364 S:3:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,184.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

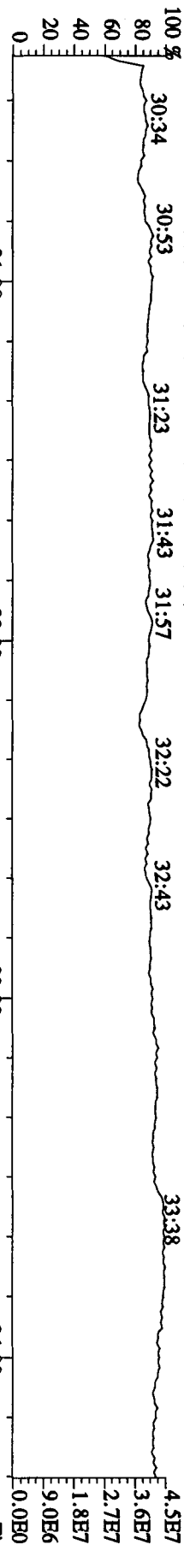


330.9792 S:3:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

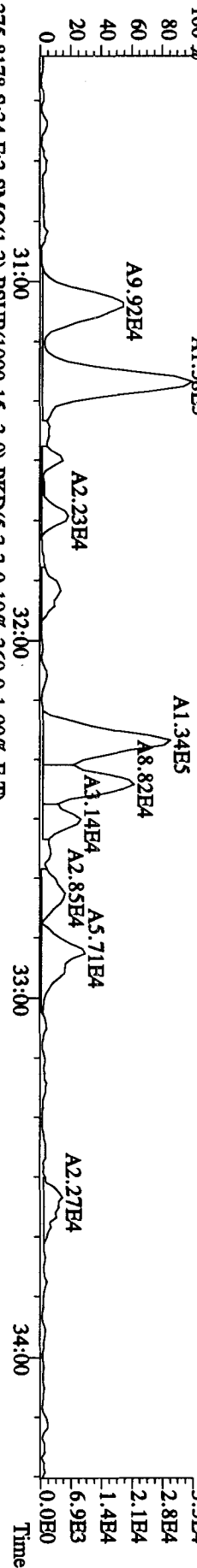




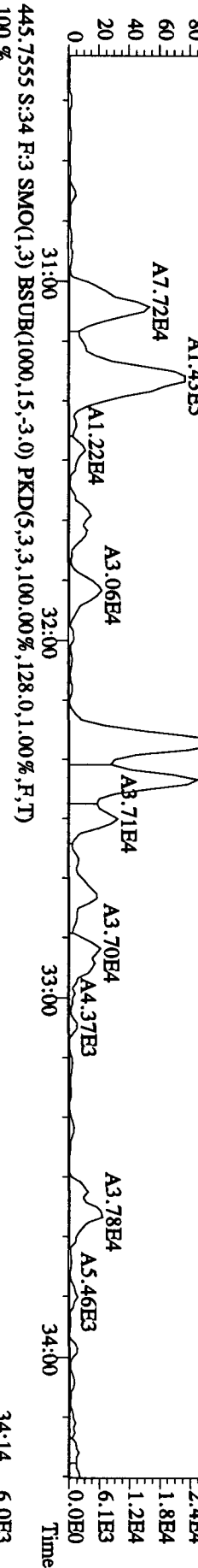
File:280C104D5 #1-286 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#34 Text:L8VH8-1-AA :G07210484-13 RI Exp:DIOXINRES
 392.9760 S:34 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



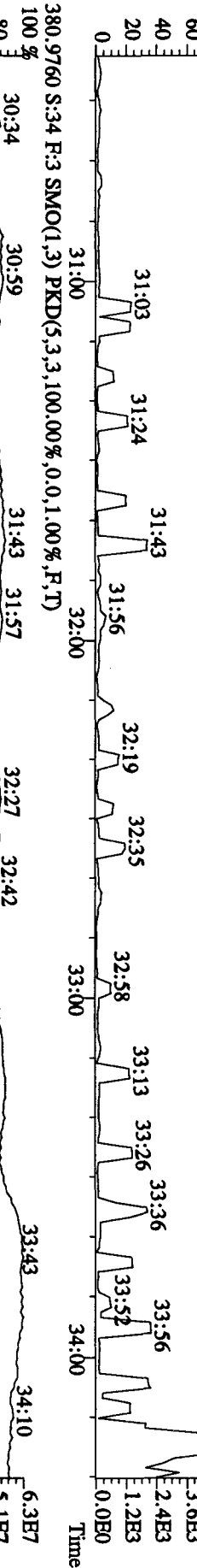
373.8208 S:34 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)



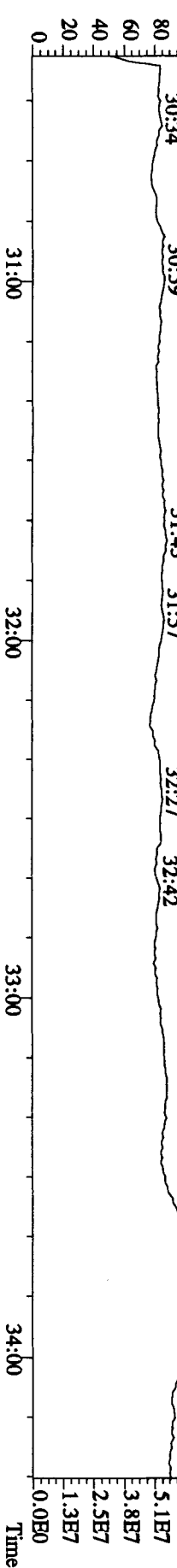
375.8178 S:34 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,360.0,1.00%,F,T)

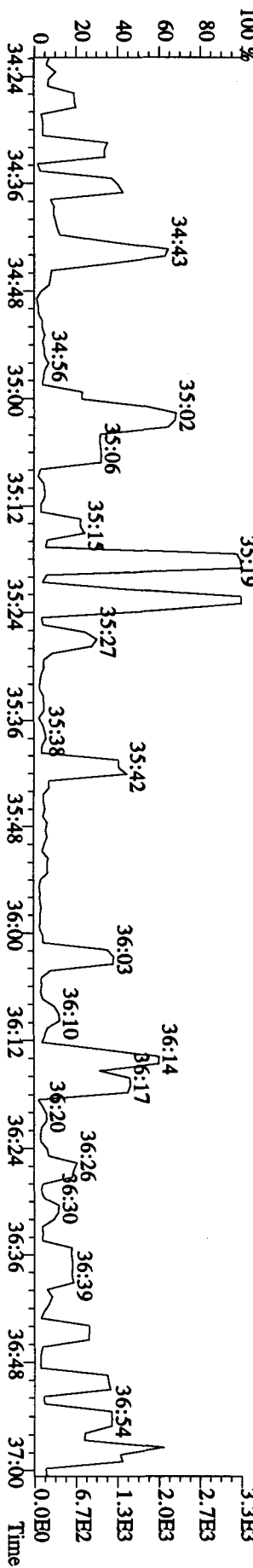
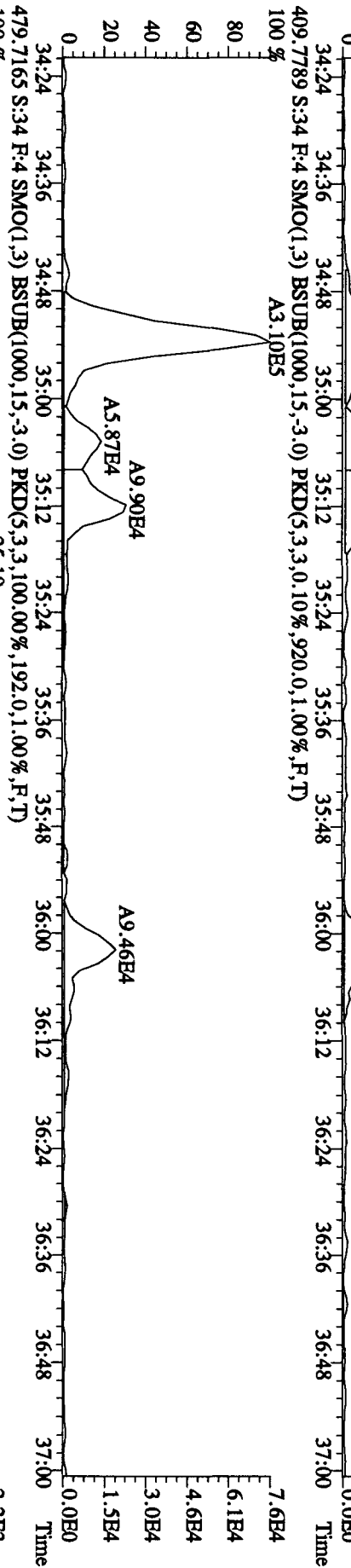
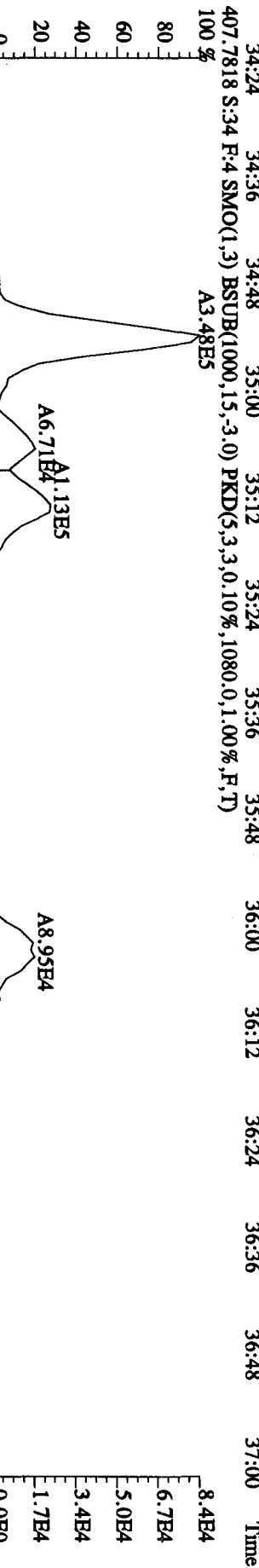
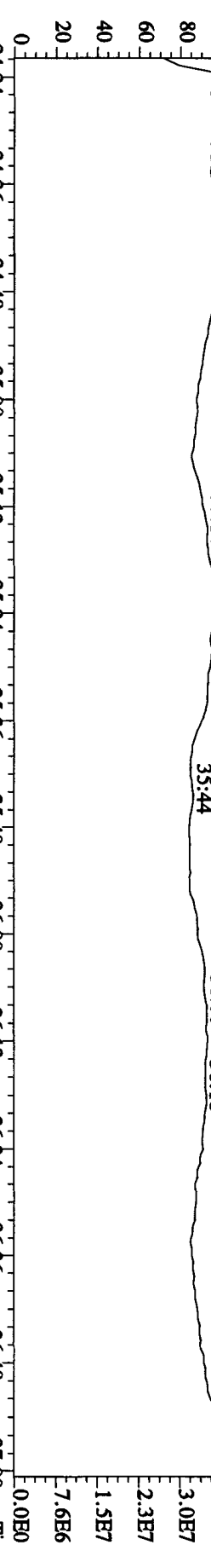


445.7555 S:34 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)

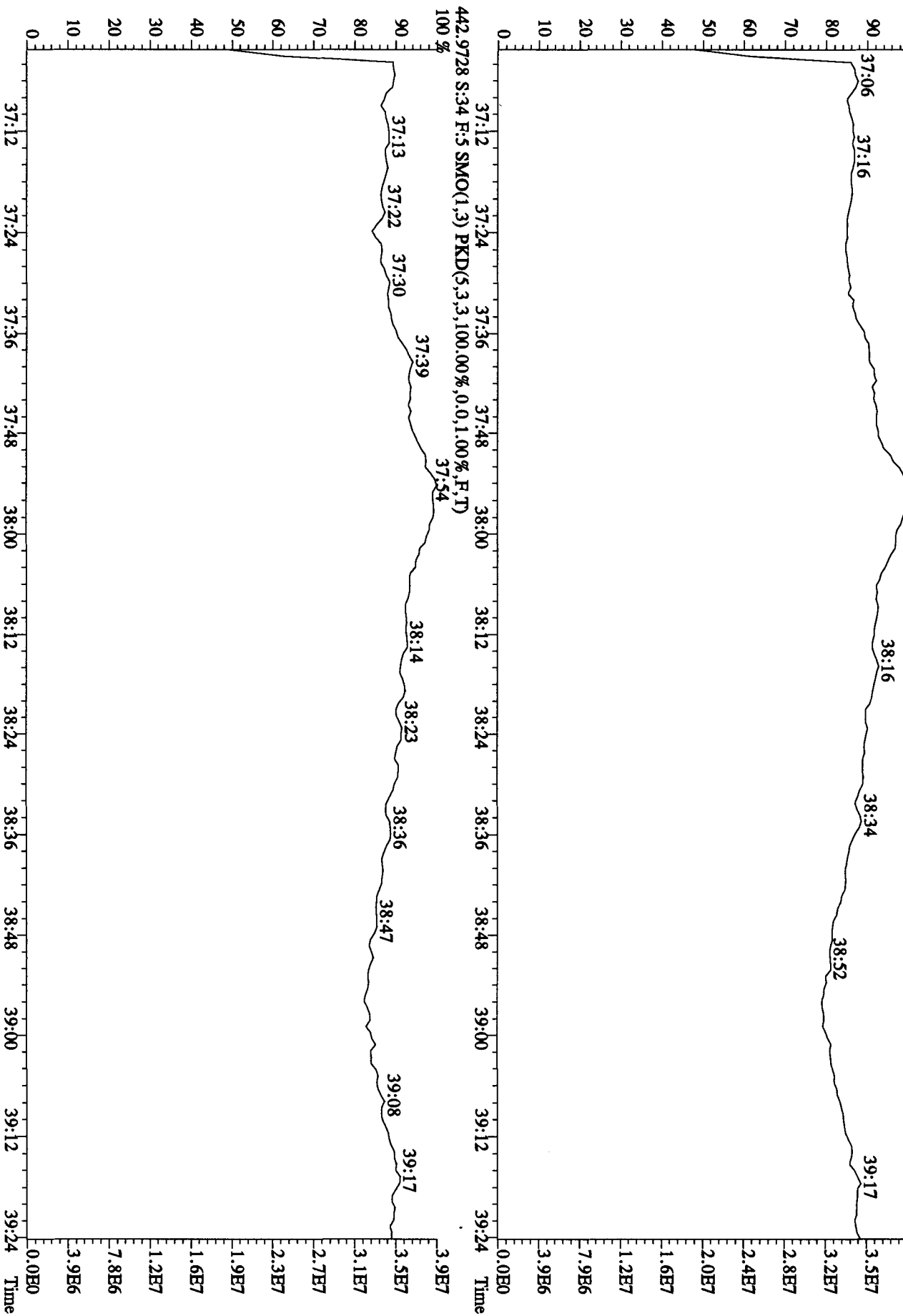


380.9760 S:34 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File:280C104D5 #1-192 Acq:29-OCT-2010 10:09:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#34 Text:L8VH8-1-AA :G0J210484-13 RI Exp:DIOXINRES
 454.9728 S:34 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L8VH8-1-AA Sample text: L8VH8-1-AA :G0J210484-13
 Run #62 Filename: 27OC10A5D2 S: 63 I: 1 Results: 27OC10A5D2DB225
 Acquired: 29-OCT-10 11:20:20 Processed: 29-OCT-10 13:52:29
 Run: 27OC10A5D2 Analyte: DB225 Cal: DB2250726105D2R
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 sam

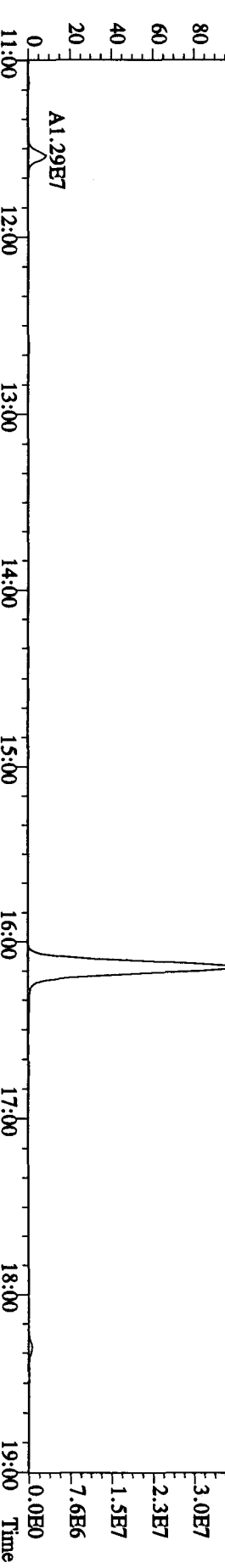
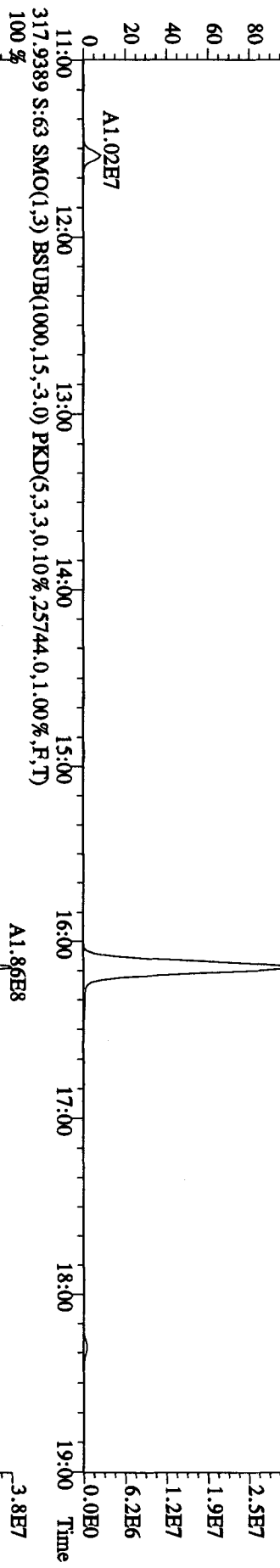
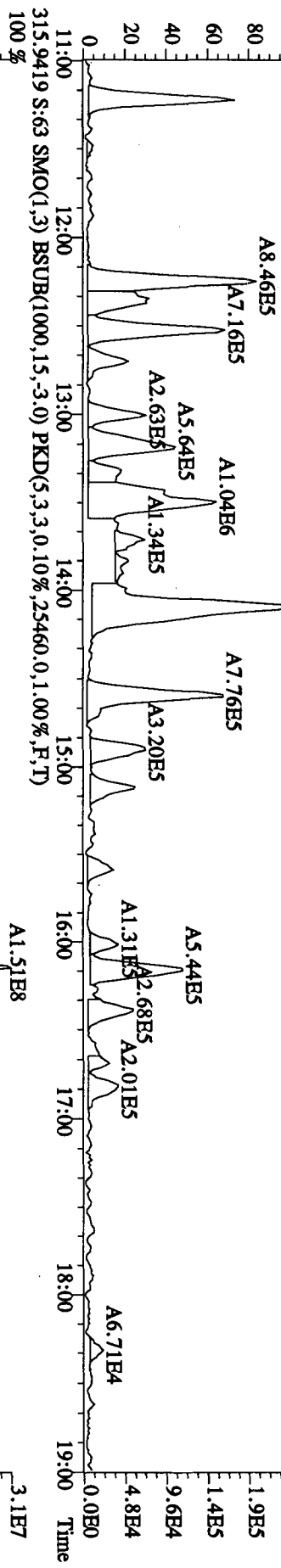
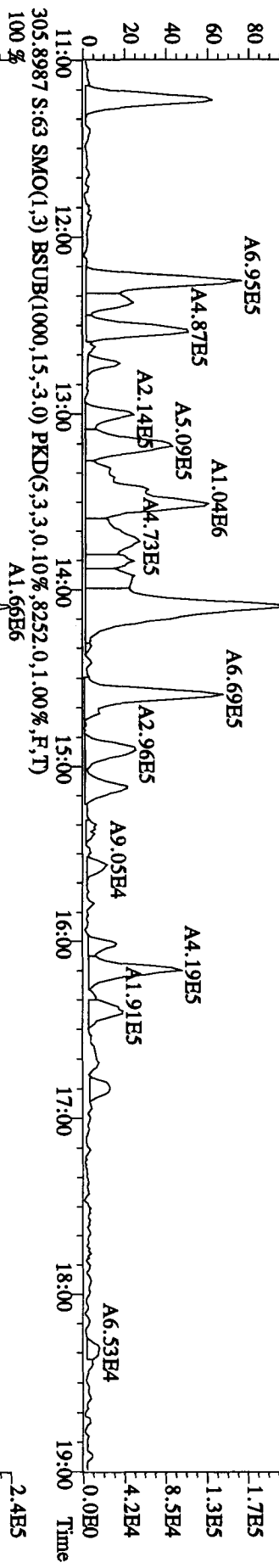
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	161376080	0.76 y	14:56	-	273.288	-	-	n
13C-2,3,7,8-TCDF	336279008	0.81 y	16:09	2.11	3947.839	8.292	98.7	n
2,3,7,8-TCDF	963183	0.77 y	16:10	1.06	10.848	2.345	-	n
13C-2,3,7,8-TCDD	140733420	0.75 y	14:38	0.88	3942.879	14.990	98.6	n
2,3,7,8-TCDD	*	* n	NotFnd	1.64	*	3.340	-	n
37C1-2,3,7,8-TCDD	90165328	1.00 y	14:40	1.29	1732.983	5.956	108.3	n

Vg 10.30.6

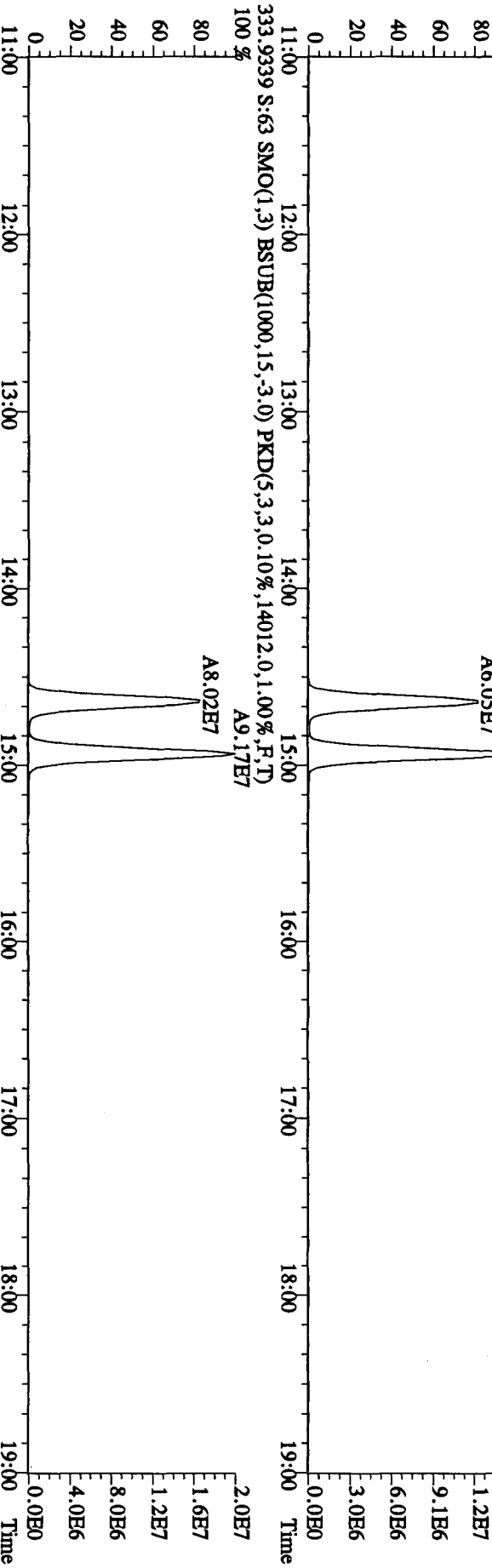
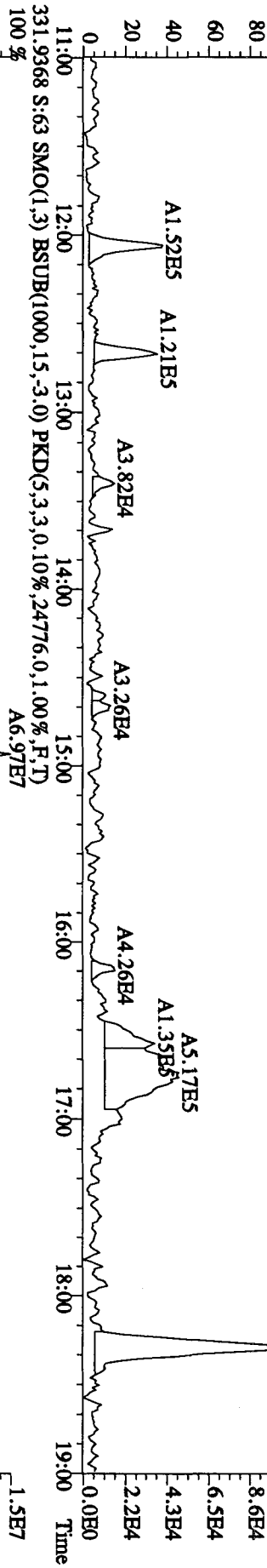
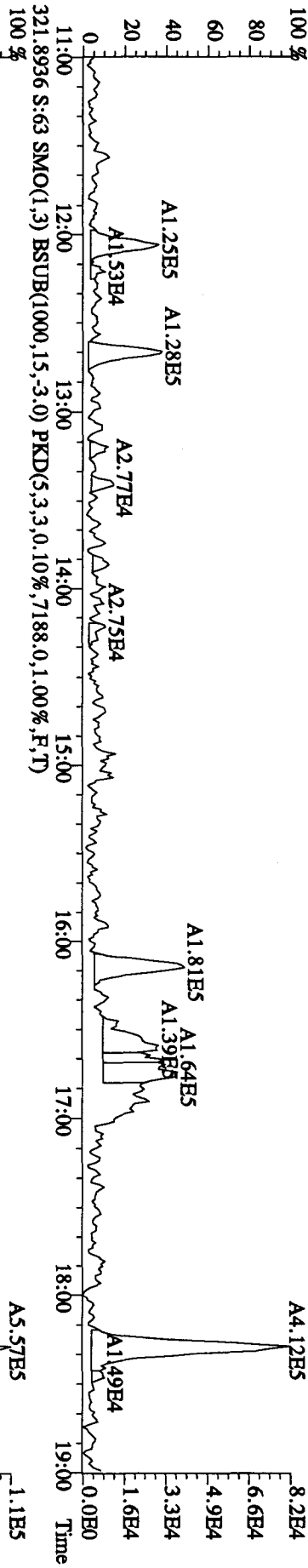
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 11:20:20 GC EI+ Voltage SIR 70SE

Sample#63 Text:L8VH8-1-AA :G01210484-13 Exp:DB225RES

303.9016 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6004.0,1.00%,F,T) 100% A1.45E6



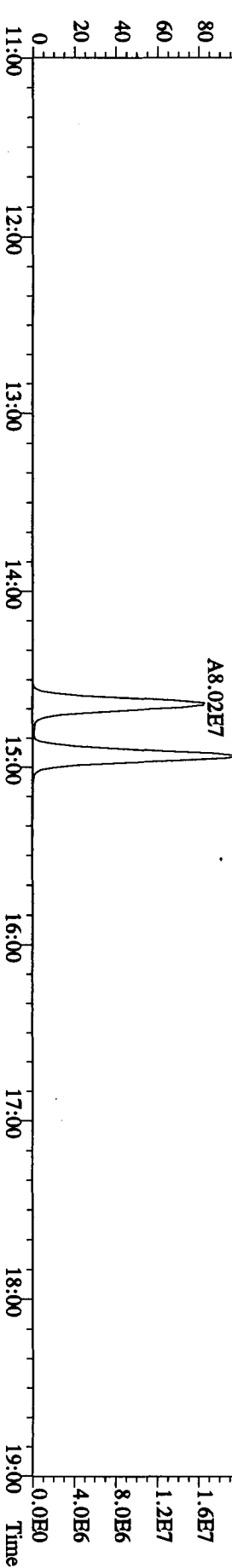
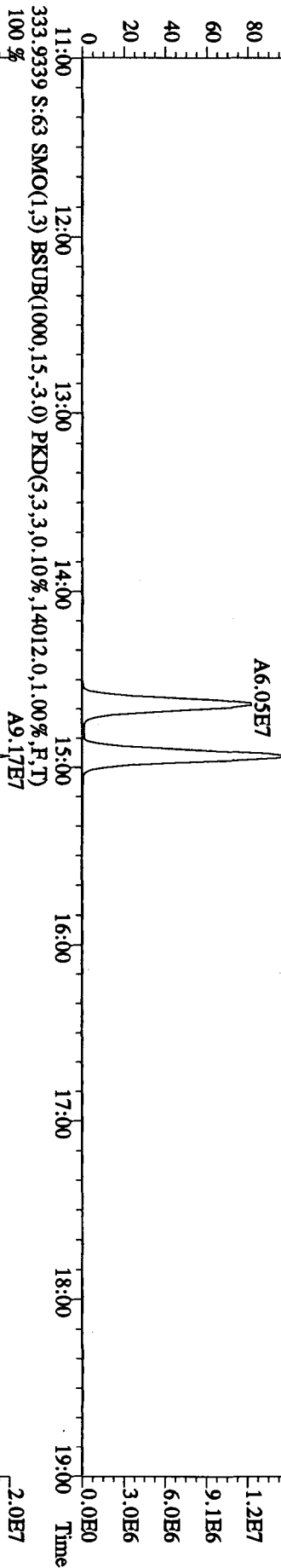
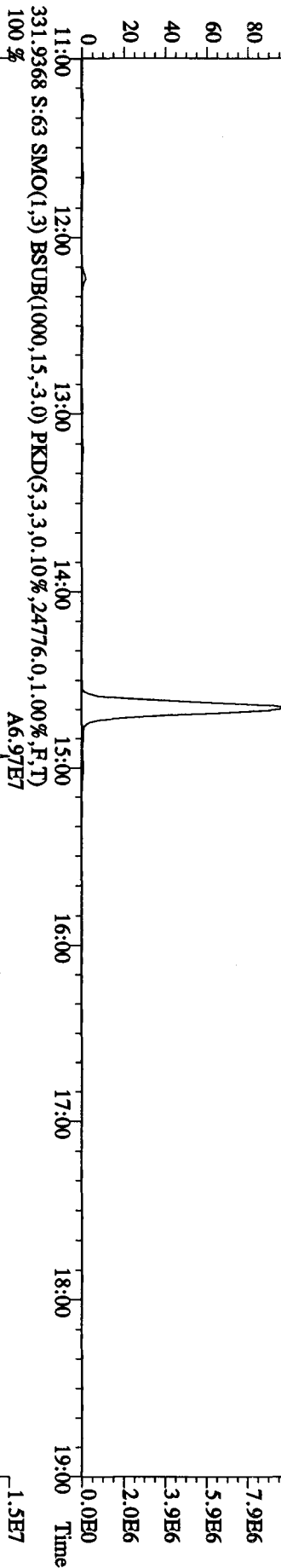
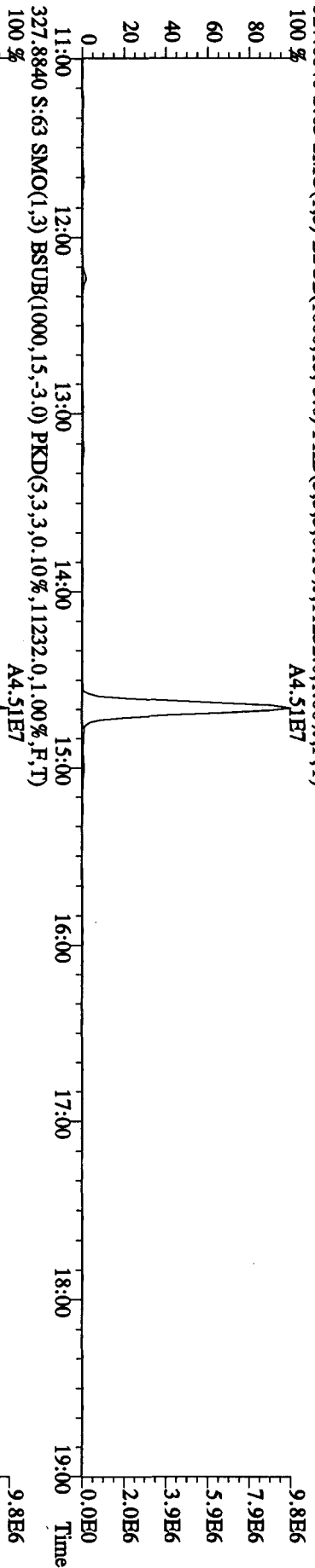
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 11:20:20 GC EI+ Voltage SIR 70SE
 Sample#63 Text:L8VH8-1-AA :G01210484-13 Exp:DB225RES
 319.8965 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5972.0,1.00%,F,T)
 100 %



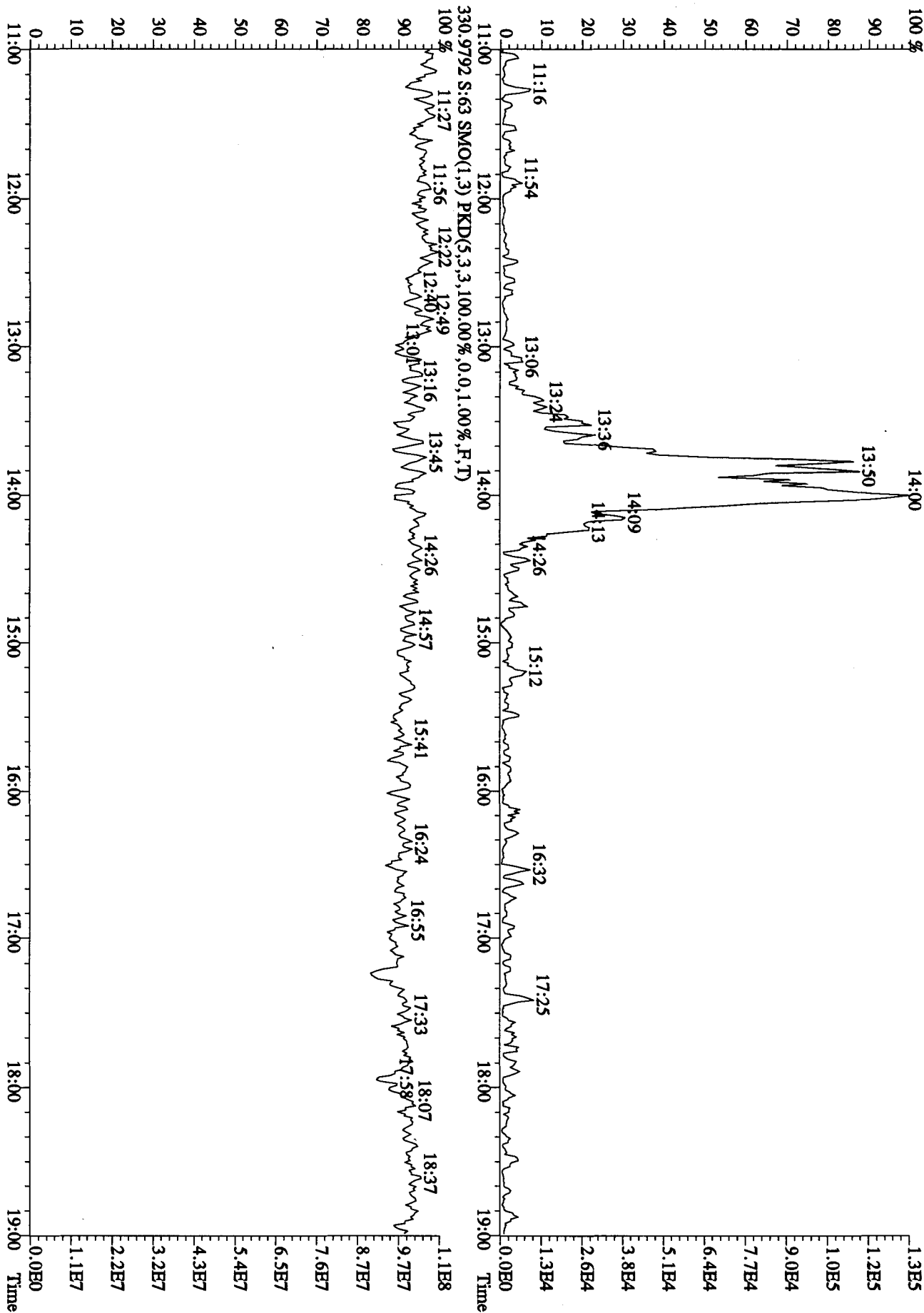
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 11:20:20 GC EI+ Voltage SIR 70SE

Exp:DB25RES

Sample#63 Text:L8VH8-1-AA :G0J210484-13
327.8840 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11232.0,1.00%,F,T)
100 % A4.51E7



File: 27OC10A5D2 #1-1242 Acq: 29-OCT-2010 11:20:20 GC HI + Voltage SIR 70SE
 Sample#63 Text: L8VH8-1-AA : G0J210484-13 Exp: DB22RES
 375.8364 S:63 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100,00%,1700,0,1,00%,F,T)
 100%



Run text: L8VH9-1-AA Sample text: L8VH9-1-AA :G0J210484-14 RI
 Run #17 Filename: 28OC104D5 S: 35 I: 1 Results: 28oc104d5to9vg
 Acquired: 29-OCT-10 10:53:36 Processed: 29-OCT-10 11:42:36
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

Vg 10.3.5

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	67104800	0.80 y	20:02	-	40.18	-	-	n
13C-2,3,7,8-TCDF	71207100	0.80 y	19:26	1.23	3452.68	4.25	86.3	n
2,3,7,8-TCDF	286345	0.90 n	19:28	0.99	16.17	2.92	-	y
Total TCDF	1992504	0.80 y	16:39	0.99	112.54	2.92	-	y
13C-2,3,7,8-TCDD	56067000	0.79 y	20:15	0.91	3692.65	8.23	92.3	n
2,3,7,8-TCDD	*	* n	NotFnd	0.98	*	2.97	-	n
Total TCDD	68336	0.66 y	17:42	0.98	4.96	2.97	-	n
37Cl-2,3,7,8-TCDD	31057600	1.00 y	20:16	1.33	1670.91	4.49	104.4	n
13C-1,2,3,7,8-PeCDF	55949800	1.58 y	25:18	0.88	3806.94	2.76	95.2	n
1,2,3,7,8-PeCDF	206951	1.39 y	25:20	1.08	13.74	2.91	-	y
2,3,4,7,8-PeCDF	98415	1.55 y	26:52	1.05	6.73	3.00	-	n
Total F2 PeCDF	1281165	2.86 n	23:29	1.06	86.22	2.95	-	y
Total F1 PeCDF	125048	0.31 n	16:28	1.06	8.43	3.42	-	n
13C-1,2,3,7,8-PeCDD	40570800	1.55 y	27:42	0.66	3659.60	0.40	91.5	n
1,2,3,7,8-PeCDD	7486	0.53 n	27:44	0.93	0.80	2.74	-	n
Total PeCDD	97282	5.83 n	23:44	0.93	10.36	2.74	-	n
13C-1,2,3,7,8,9-HxCDD	46657300	1.26 y	33:22	-	39.41	-	-	n
13C-1,2,3,4,7,8-HxCDF	39109700	0.50 y	32:16	1.04	3209.20	2.92	80.2	n
1,2,3,4,7,8-HxCDF	212737	1.00 n	32:17	1.22	17.87	1.44	-	y
1,2,3,6,7,8-HxCDF	205814	1.26 y	32:23	1.28	16.42	1.37	-	y
2,3,4,6,7,8-HxCDF	48669	1.42 y	32:55	1.23	4.04	1.42	-	y
1,2,3,7,8,9-HxCDF	19827	0.75 n	33:33	1.10	1.85	1.60	-	y
Total HxCDF	1427149	1.23 y	31:03	1.21	119.80	1.45	-	y
13C-1,2,3,6,7,8-HxCDD	36703600	1.33 y	33:06	0.83	3787.54	0.50	94.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.04	*	1.70	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.16	*	1.52	-	n
1,2,3,7,8,9-HxCDD	17820	1.10 y	33:22	1.18	1.64	1.49	-	n
Total HxCDD	70656	1.55 n	31:47	1.13	6.75	1.56	-	n
13C-1,2,3,4,6,7,8-HpCDF	35453700	0.43 y	34:53	0.91	3340.03	22.46	83.5	n
1,2,3,4,6,7,8-HpCDF	794343	1.15 y	34:53	1.35	66.59	2.26	-	n
1,2,3,4,7,8,9-HpCDF	207103	1.21 n	36:02	1.09	21.37	2.78	-	n
Total HpCDF	1414772	1.15 y	34:53	1.22	126.20	2.50	-	n
13C-1,2,3,4,6,7,8-HpCDD	35189700	1.04 y	35:42	0.83	3649.70	13.28	91.2	n
1,2,3,4,6,7,8-HpCDD	38947	0.50 n	35:43	1.07	4.13	2.38	-	n
Total HpCDD	98530	1.75 n	34:52	1.07	10.45	2.38	-	n
13C-OCDD	48029600	0.88 y	38:14	0.62	6642.46	20.87	83.0	n
OCDF	1128064	0.85 y	38:22	1.37	137.12	4.55	-	n

OCDD 161348 0.92 y 38:16 1.20

22.41 ✓BJ 1.73

- n

Run text: L8VH9-1-AA Sample text: L8VH9-1-AA :G0J210484-14 RI
 Run #17 Filename: 28OC104D5 S: 35 I: 1 Results: 28OC104D5TO9
 Acquired: 29-OCT-10 10:53:36 Processed: 29-OCT-10 11:42:36
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	67104774	0.80 y	20:02	-	40.184	-	-	n
13C-2,3,7,8-TCDF	71207086	0.80 y	19:26	1.23	3452.683	4.253	86.3	n
2,3,7,8-TCDF	271300	0.96 n	19:28	0.99	15.324	2.922	-	n
Total TCDF	1976554	0.80 y	16:39	0.99	111.644 107.68 ✓	2.922	-	n
13C-2,3,7,8-TCDD	56066988	0.79 y	20:15	0.91	3692.653	8.228	92.3	n
2,3,7,8-TCDD	*	* n	NotFnd	0.98	*	2.970	-	n
Total TCDD	68336	0.66 y	17:42	0.98	4.957	2.970	-	n
37C1-2,3,7,8-TCDD	31057654	1.00 y	20:16	1.33	1670.917	4.491	104.4	n
13C-1,2,3,7,8-PeCDF	55949848	1.58 y	25:18	0.88	3806.946	2.760	95.2	n
1,2,3,7,8-PeCDF	198181	1.54 y	25:20	1.08	13.160	2.909	-	n
2,3,4,7,8-PeCDF	98415	1.55 y	26:52	1.05	6.729	2.995	-	n
Total F2 PeCDF	1230525	2.86 n	23:29	1.06	82.813	2.952	-	n
Total F1 PeCDF	125048	0.31 n	16:28	1.06	8.425	2.423	-	n
13C-1,2,3,7,8-PeCDD	40570766	1.55 y	27:42	0.66	3659.599	0.396	91.5	n
1,2,3,7,8-PeCDD	7486	0.53 n	27:44	0.93	0.798	2.743	-	n
Total PeCDD	97282	5.83 n	23:44	0.93	10.364 3.11DL	2.743	-	n
13C-1,2,3,7,8,9-HxCDD	46657264	1.26 y	33:22	-	39.407	-	-	n
13C-1,2,3,4,7,8-HxCDF	39109742	0.50 y	32:16	1.04	3209.210	2.916	80.2	n
1,2,3,4,7,8-HxCDF	272651	1.01 n	32:17	1.22	22.909	1.443	-	n
1,2,3,6,7,8-HxCDF	208295	1.26 y	32:23	1.28	16.622	1.371	-	n
2,3,4,6,7,8-HxCDF	93774	0.95 n	32:55	1.23	7.776	1.424	-	n
1,2,3,7,8,9-HxCDF	79365	1.24 y	33:36	1.10	7.392	1.600	-	n
Total HxCDF	1465542	1.23 y	31:03	1.21	123.423	1.455	-	n
13C-1,2,3,6,7,8-HxCDD	36703626	1.33 y	33:06	0.83	3787.546	0.504	94.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.04	*	1.699	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.16	*	1.516	-	n
1,2,3,7,8,9-HxCDD	17820	1.10 y	33:22	1.18	1.643 DL	1.491	-	n
Total HxCDD	70656	1.55 n	31:47	1.13	6.752 2.12DL	1.564	-	n
13C-1,2,3,4,6,7,8-HpCDF	35453658	0.43 y	34:53	0.91	3340.025	22.461	83.5	n
1,2,3,4,6,7,8-HpCDF	794344	1.15 y	34:53	1.35	66.594	2.262	-	n
1,2,3,4,7,8,9-HpCDF	207102	1.21 n	36:02	1.09	21.369	2.784	-	n
Total HpCDF	1409920	1.15 y	34:53	1.22	125.750	2.496	-	n
13C-1,2,3,4,6,7,8-HpCDD	35189746	1.04 y	35:42	0.83	3649.710	13.280	91.2	n
1,2,3,4,6,7,8-HpCDD	38947	0.50 n	35:43	1.07	4.131	2.379	-	n
Total HpCDD	98530	1.75 n	34:52	1.07	10.451 8.44 ✓	2.379	-	n
13C-OCDD	48029652	0.88 y	38:14	0.62	6642.472	20.869	83.0	n

OCDF	1128064	0.85	y	38:22	1.37	137.120 ✓	4.553	-	n
OCDD	161348	0.92	y	38:16	1.20	22.408 ✓	1.731	-	n

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:13
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 55.822 of which 7.662 named and 48.160 unnamed
Conc: 111.644 of which 15.324 named and 96.320 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 13 rows of data for various peaks, including peak 12 labeled '2,3,7,8-TCDF' and peak 13 with a handwritten checkmark.

Handwritten note: 600-20-14

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? yes #Hom:12

Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36

Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount:	56.27 of which	8.09 named and	48.19 unnamed
Conc:	112.54 of which	16.17 named and	96.37 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:39	0.80 y	7.93	62515 77831	10.7 7.7	y	n
	2	17:02	0.83 y	3.85	30926 37217	4.7 4.2	y	n
	3	17:32	0.80 y	20.31	159861 199679	22.6 19.6	y	n
	4	17:49	0.75 y	11.63	87951 117993	10.1 9.6	y	n
	5	18:10	0.73 y	8.65	64834 88263	5.7 6.1	y	y
	6	18:24	0.69 y	9.51	68843 99521	9.0 9.1	y	n
	7	18:40	0.79 y	9.44	73519 93626	7.4 6.8	y	n
	8	18:50	0.84 y	8.57	69182 82556	8.9 8.1	y	n
	9	19:00	0.83 y	11.62	93208 112493	13.4 9.6	y	n
	10	19:14	0.70 y	2.85	20723 29817	2.6 3.0	n	y
2,3,7,8-TCDF	11	19:28	0.90 n	16.17	145325 161777	19.2 14.2	y	n
	12	19:56	0.41 n	2.01	15487 38225	2.2 3.1	n	n

1A

107.6 R

LEAD

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:3
 Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 2.479 of which * named and 2.479 unnamed
 Conc: 4.957 of which * named and 4.957 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N >?	Mod?
	1	17:42	0.663 y	1.920	10558 15913	2.434 3.206	n n y n
	2	18:03	0.524 n	1.925	11543 22022	1.835 4.027	n n y n
	3	18:57	1.281 n	1.112	11094 8662	1.624 1.460	n n n n

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:11
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 41.406 of which 9.945 named and 31.462 unnamed
Conc: 82.813 of which 19.889 named and 62.924 unnamed

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

Handwritten notes: L8VH9-1-AA

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 4.213 of which * named and 4.213 unnamed
Conc: 8.425 of which * named and 8.425 unnamed

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:12
 Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d5

Amount: 43.11 of which 10.24 named and 32.87 unnamed
 Conc: 86.22 of which 20.47 named and 65.74 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:29	2.86	n	4.62	76947	21.0	y n
					26894	3.5	y	n
	2	23:43	1.56	y	26.50	239458	46.8	y n
					153799	15.7	y	n
	3	23:57	1.87	n	3.82	41689	6.8	y n
					22235	2.3	n	n
	4	24:19	1.32	y	2.94	24813	7.7	y n
					18831	2.5	n	n
	5	24:25	1.86	n	0.99	10741	5.3	y n
					5783	1.0	n	n
	6	24:38	1.11	n	4.58	41313	12.4	y y
					37180	3.6	y	y
	7	24:45	1.93	n	9.21	103432	22.9	y y
					53621	7.9	y	y
	8	25:09	0.98	n	4.85	43780	10.6	y n
					44614	4.9	y	y
1,2,3,7,8-PeCDF	9	25:20	1.39	y	13.74	120183	28.1	y n
					86768	8.6	y	y
	10	25:59	2.23	n	5.50	71413	13.1	y n
					31995	3.6	y	n
2,3,4,7,8-PeCDF	11	26:52	1.55	y	6.73	59863	14.3	y n
					38552	3.6	y	n
	12	27:15	2.33	n	2.73	37131	5.8	y n
					15907	2.0	n	n

LEDL

MA

79.5

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:28	0.308 n	0.312	2811 9141	0.899 1.027	n	n
	2	21:54	1.166 n	7.765	70052 60102	18.132 7.246	y	n
	3	22:25	0.338 n	0.349	3147 9311	1.334 1.404	n	n

Totals Results TestAmerica West Sacramento

Page 5 of 9

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:10
 Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 5.182 of which 0.399 named and 4.783 unnamed
 Conc: 10.364 of which 0.798 named and 9.566 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:44	5.834 n	0.277	5950 1020	1.832 2.327	n	n
	2	23:57	3.143 n	1.646	19039 6058	2.560 9.861	n	n
	3	24:17	4.092 n	0.301	4539 1109	1.647 2.181	n	n
	4	25:17	1.418 y	3.110	17116 12075	2.447 14.574	n	n
	5	27:15	2.733 n	1.152	11588 4240	2.328 8.076	n	n
	6	27:19	1.765 y	1.249	7482 4240	2.209 8.076	n	n
	7	27:27	1.847 n	0.831	5651 3059	1.691 3.764	n	n
1,2,3,7,8-PeCDD	8	27:44	0.528 n	0.798	4551 8614	1.603 9.858	n	n
	9	30:06	8.640 n	0.300	9539 1104	1.541 2.045	n	n
	10	30:15	1.054 n	0.700	3997 3793	1.271 6.609	n	n

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:13
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 61.712 of which 27.349 named and 34.362 unnamed
Conc: 123.423 of which 54.699 named and 68.725 unnamed

Table with columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 13 rows of data for various HxCDF and HxCDD samples.

Handwritten note: L8VH9-1-AA

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14
 Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount: 59.90 of which 20.09 named and 39.81 unnamed
 Conc: 119.80 of which 40.18 named and 79.62 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:03	1.23 y	15.69	102249 82955	33.4 23.8	y	n
	2	31:16	1.21 y	26.46	171349 141116	42.5 46.3	y	n
	3	31:29	1.12 y	2.62	16313 14620	3.4 4.2	y	n
	4	31:39	1.29 y	4.69	31185 24172	9.9 7.4	y	n
	5	31:51	1.80 n	3.35	31702 17634	7.5 6.4	y	n
	6	32:15	1.06 y	5.24	31800 30016	29.2 26.3	y	y
1,2,3,4,7,8-HxCDF	7	32:17	1.00 n	17.87	117765 117490	46.9 49.2	y	y
1,2,3,6,7,8-HxCDF	8	32:23	1.26 y	16.42	114826 90988	33.7 29.9	y	y
	9	32:30	1.62 n	6.27	53484 33025	18.4 10.4	y	n
	10	32:42	1.06 y	7.91	48115 45232	16.3 14.5	y	n
	11	32:52	0.76 n	3.62	23658 31021	10.6 12.6	y	y
2,3,4,6,7,8-HxCDF	12	32:55	1.42 y	4.04	28572 20097	11.0 9.2	y	y
1,2,3,7,8,9-HxCDF	13	33:33	0.75 n	1.85	10976 14607	5.1 7.5	y	y
	14	33:36	1.57 n	3.79	31277 19984	9.8 7.5	y	y

6A

Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 3.376 of which 0.822 named and 2.554 unnamed
Conc: 6.752 of which 1.643 named and 5.108 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:47	1.548 n	1.302	9308	6.279	y	n
					6013	1.339	n	n
	2	32:16	3.002 n	1.682	23314	12.186	y	n
					7766	2.070	n	n
	3	32:32	1.010 n	2.124	12162	11.089	y	n
					12039	2.984	n	n
1,2,3,7,8,9-HxCDD	4	33:22	1.101 y	1.643	9339	5.342	y	n
					8481	2.758	n	n

noise

Totals Results TestAmerica West Sacramento

Page 8 of 9

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 62.875 of which 43.982 named and 18.894 unnamed
Conc: 125.750 of which 87.963 named and 37.787 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:53	1.153 y	66.594	425372	110.509	y	n
					368971	77.307	y	n
	2	35:05	0.971 y	15.680	83510	20.875	y	n
					85990	15.384	y	n
	3	35:11	0.910 y	22.107	113851	24.944	y	n
					125123	23.371	y	n
1,2,3,4,7,8,9-HpCDF	4	36:02	1.213 n	21.369	123165	29.420	y	n
					101521	17.604	y	n

Run Text: L8VH9-1-AA

Sample text: L8VH9-1-AA :G0J210484-14 RI

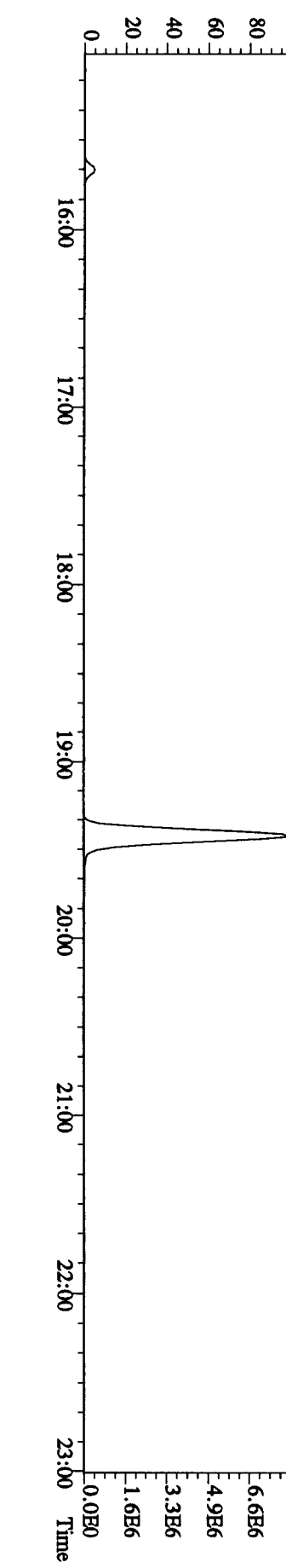
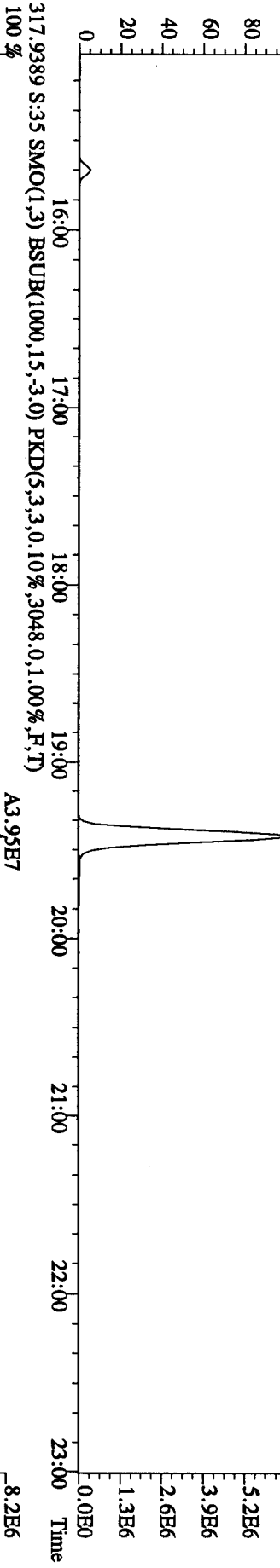
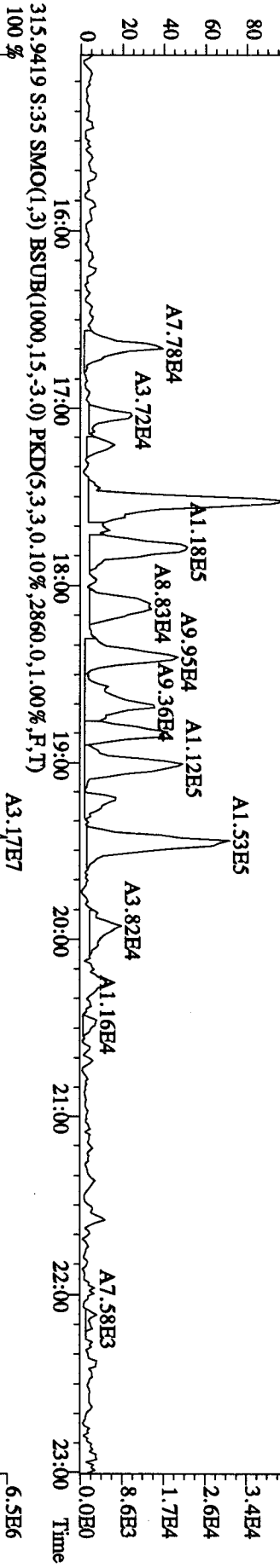
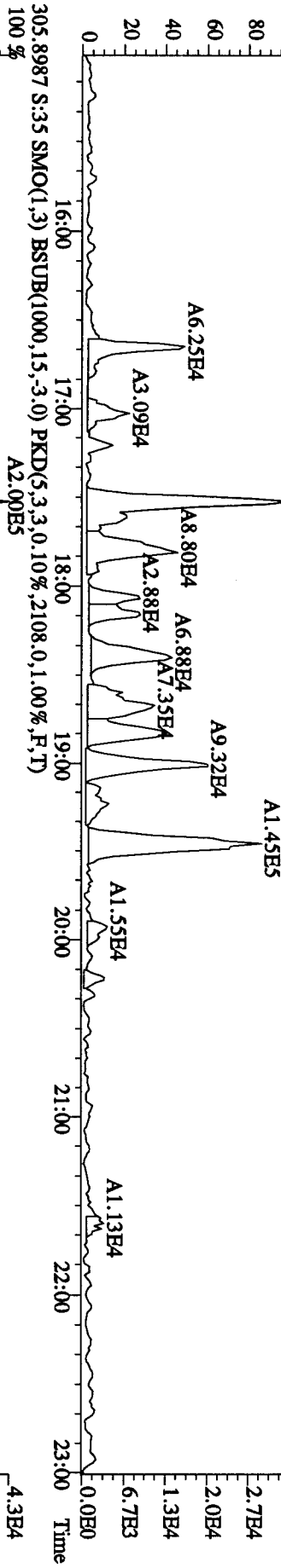
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
Run: 17 File: 28OC104D5 S:35 Acq:29-OCT-10 10:53:36
Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 5.225 of which 2.065 named and 3.160 unnamed
Conc: 10.451 of which 4.131 named and 6.320 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:52	1.748 n	1.427	11525 6595	3.392 2.493	y n	n n
	2	35:08	1.695 n	4.304	33726 19892	8.606 6.418	y y	n n
1,2,3,4,6,7,8-HpCDD	3	35:43	0.592 n	4.131	19856 33523	5.916 9.269	y y	n n
	4	36:33	1.388 n	0.589	3776 2720	0.908 1.026	n n	n n

8.44

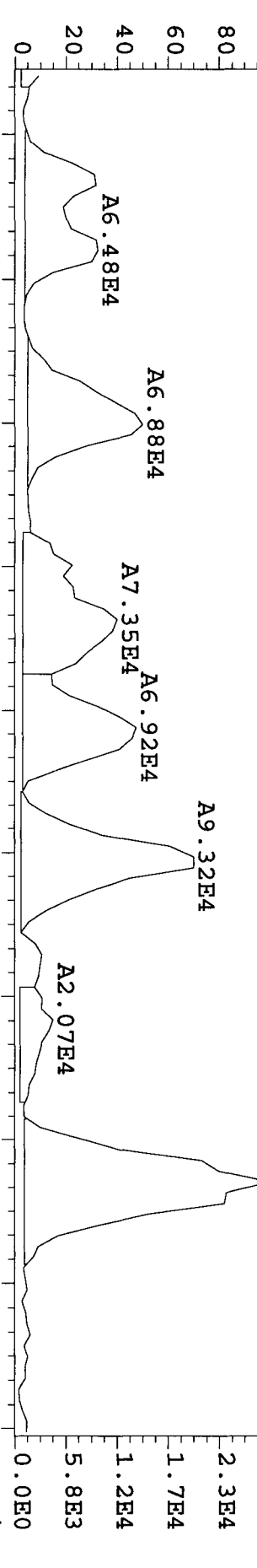
File: 280C104D5 #1-530 Acq: 29-OCT-2010 10:53:36 GC EI + Voltage SIR Autospec-UltimaE
 Sample#35 Text: L8VH9-1-AA :G0J210484-14 RI Exp: DIOXINRES
 303.9016 S:35 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1452,0,1,00%,F,T)
 100%



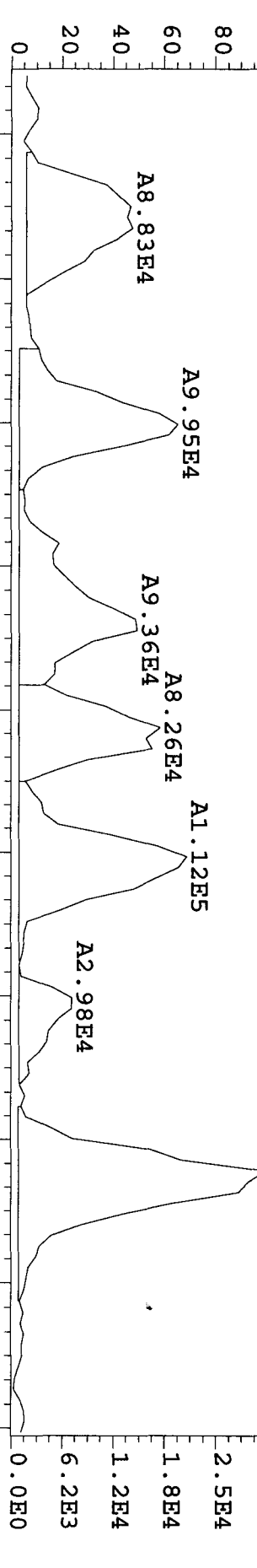
File: 280C104D5 #1-530 Acq: 29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-UltimaF

Sample#35 Text: L8VH9-1-AA : G0J210484-14 Exp: DIOXINRES

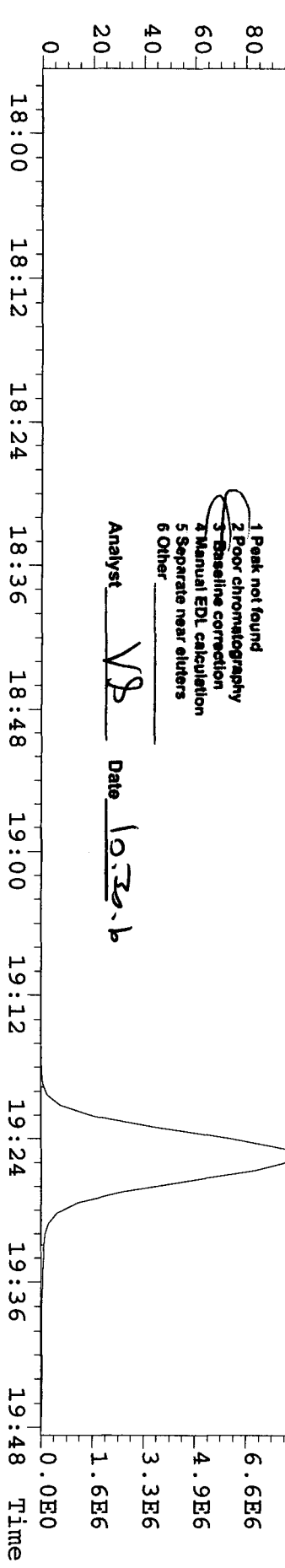
303.9016 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T) A1.45E5



305.8987 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108.0,1.00%,F,T) A1.62E5



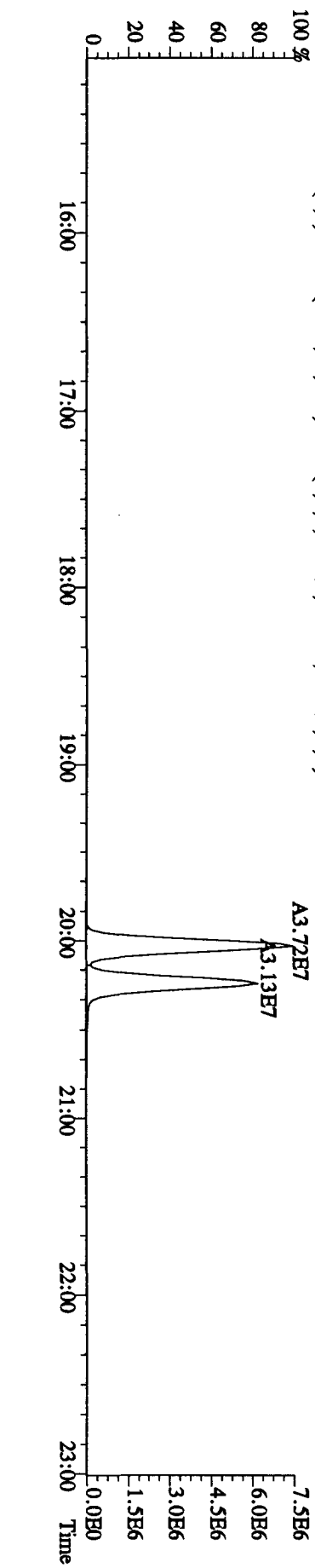
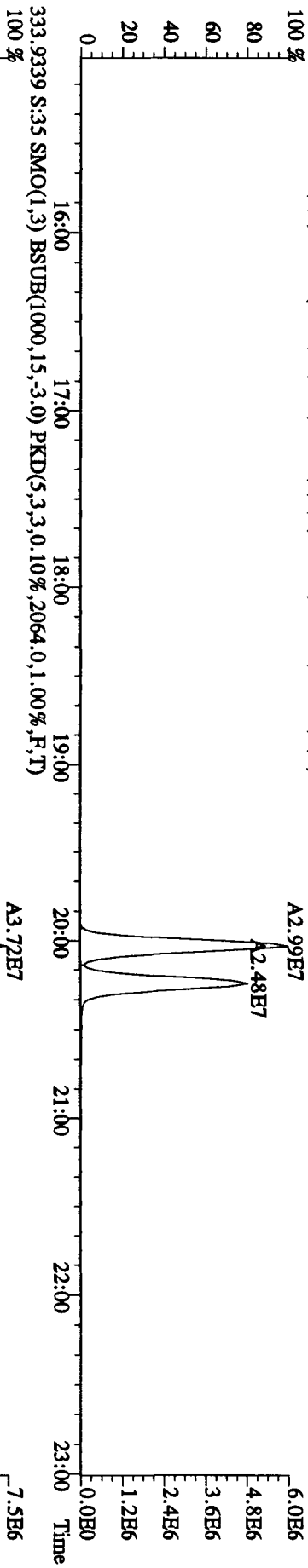
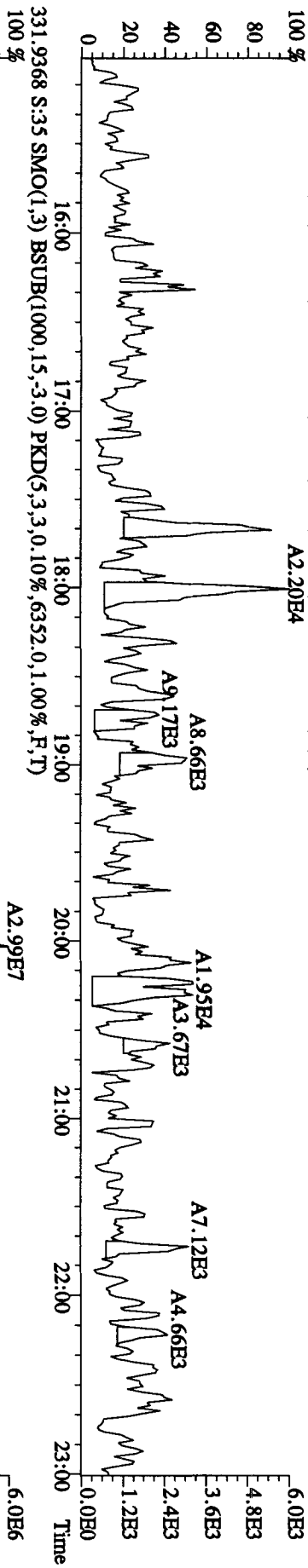
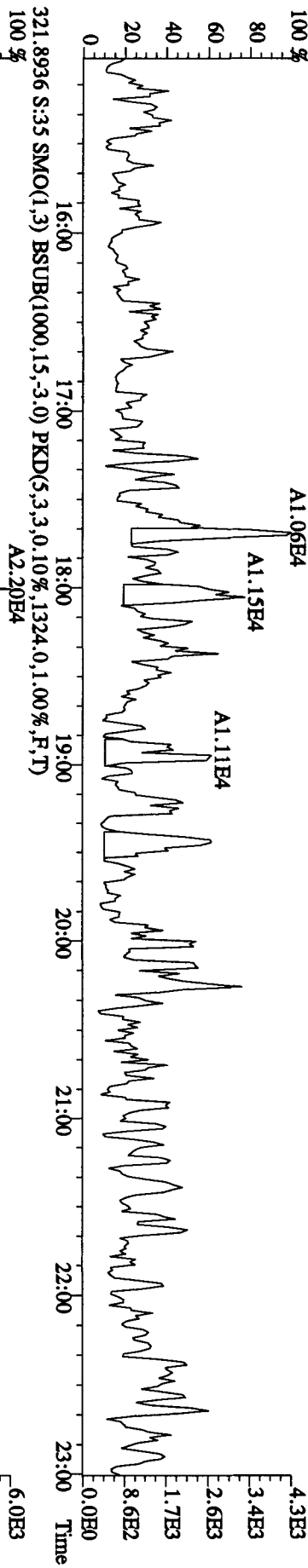
317.9389 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3048.0,1.00%,F,T) A3.95E7



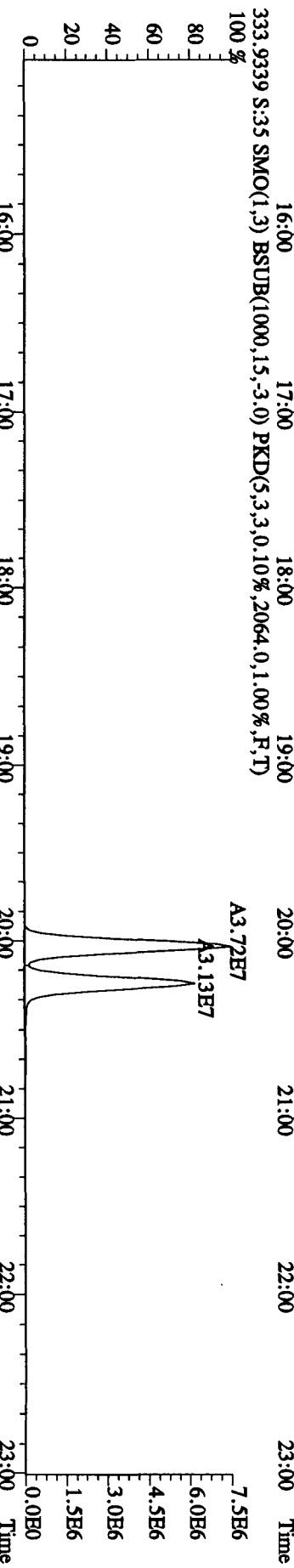
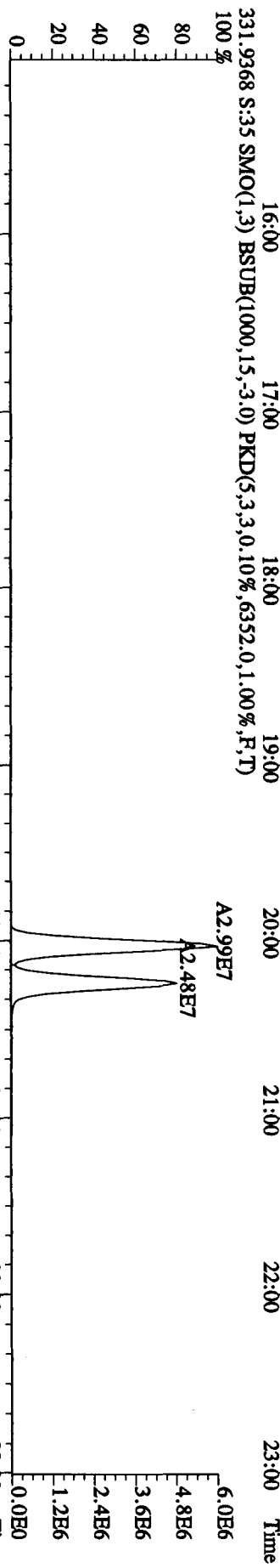
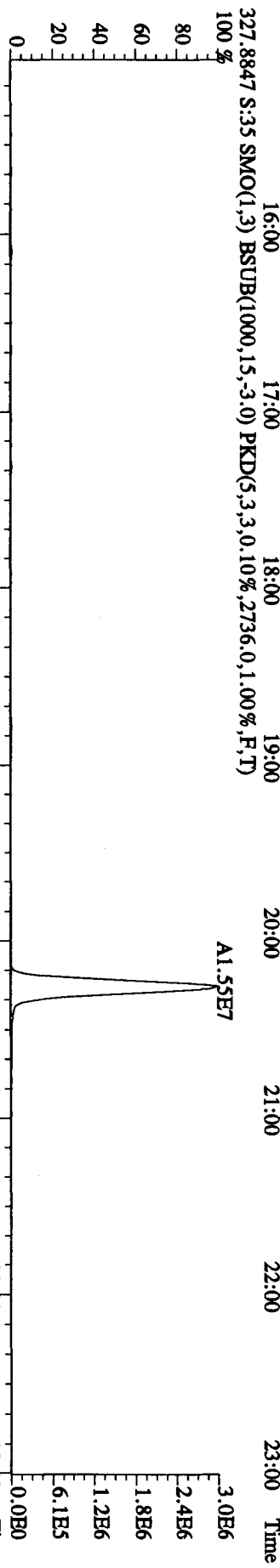
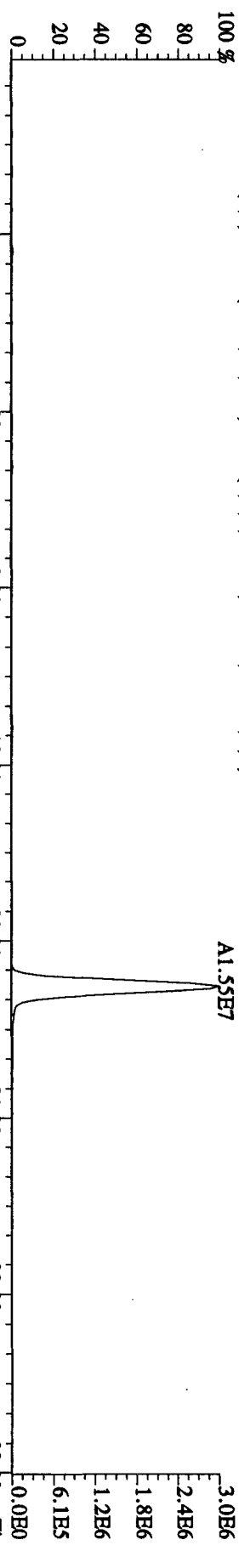
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VB Date 10-30-10

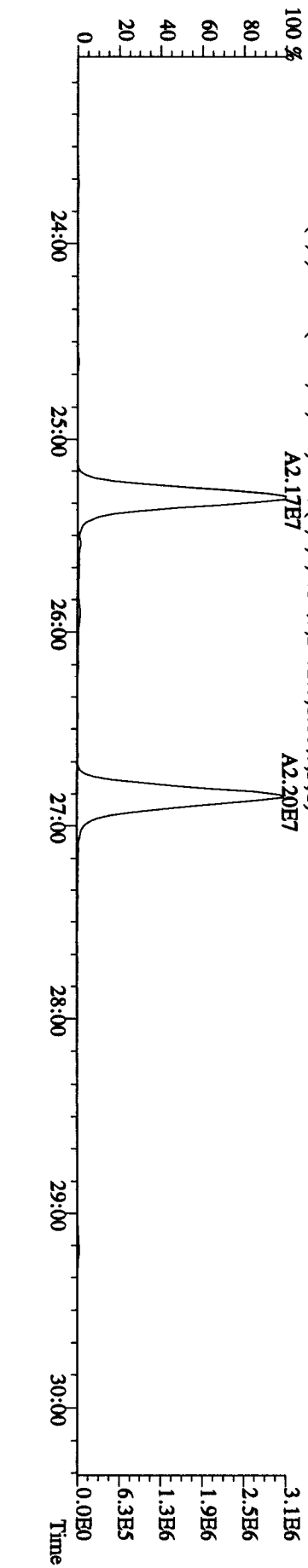
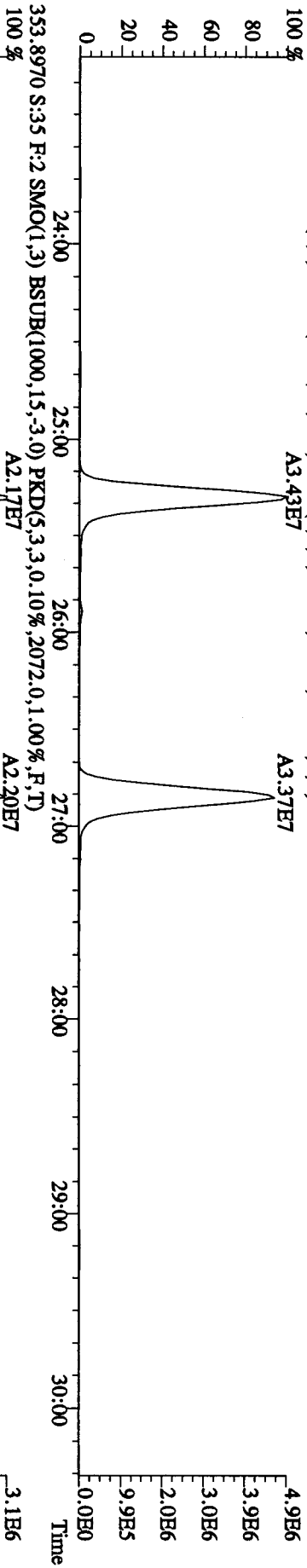
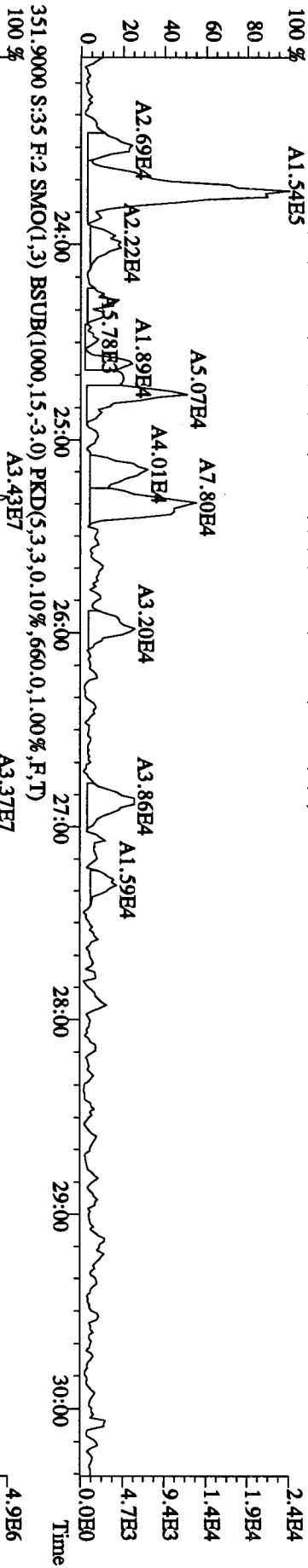
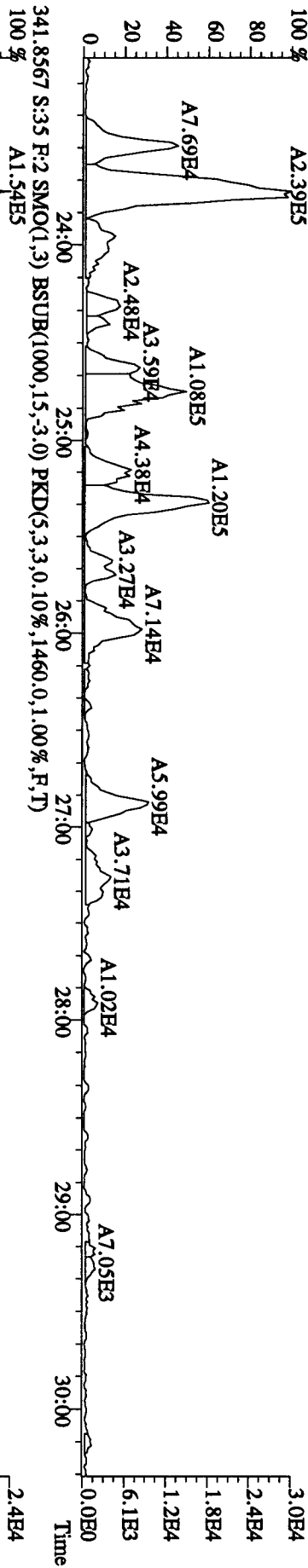
File:280C104D5 #1-530 Acq:29-OCT-2010 10:53:36 GC EI + Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 319.8965 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1360.0,1.00%,F,T)
 A1.06E4



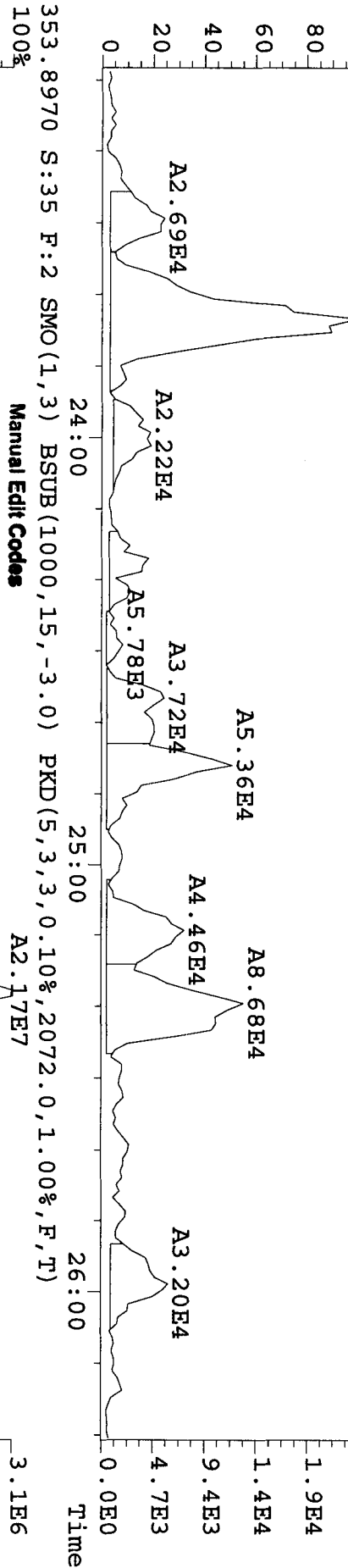
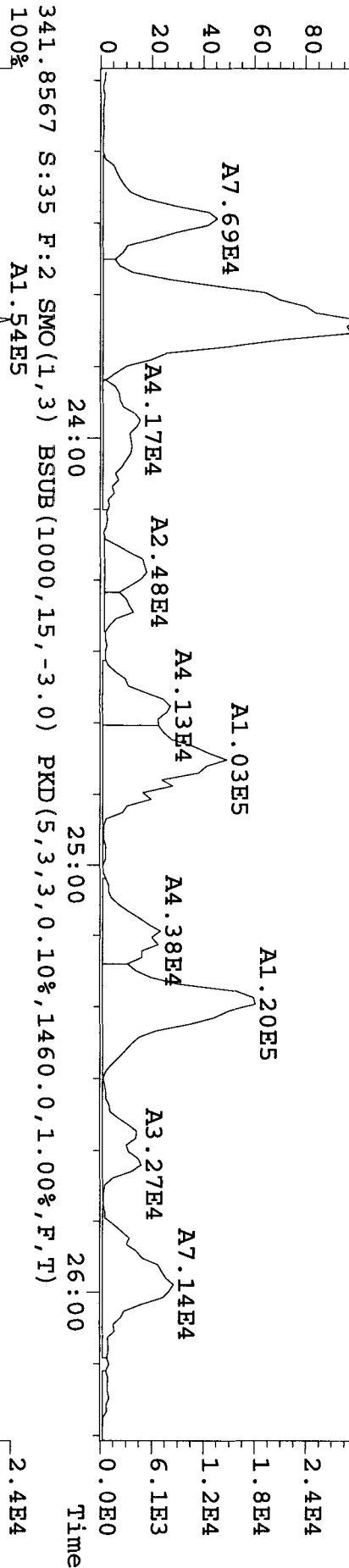
File:280C104D5 #1-530 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES



File: 280C104D5 #1-470 Acq: 29-OCT-2010 10:53:36 GC EI + Voltage SIR Autospec-UltimaE
 Sample#35 Text: L8VH9-1-AA : G0J210484-14 RI Exp: DIOXINRES
 339.8597 S:3.5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)
 A2.39E5

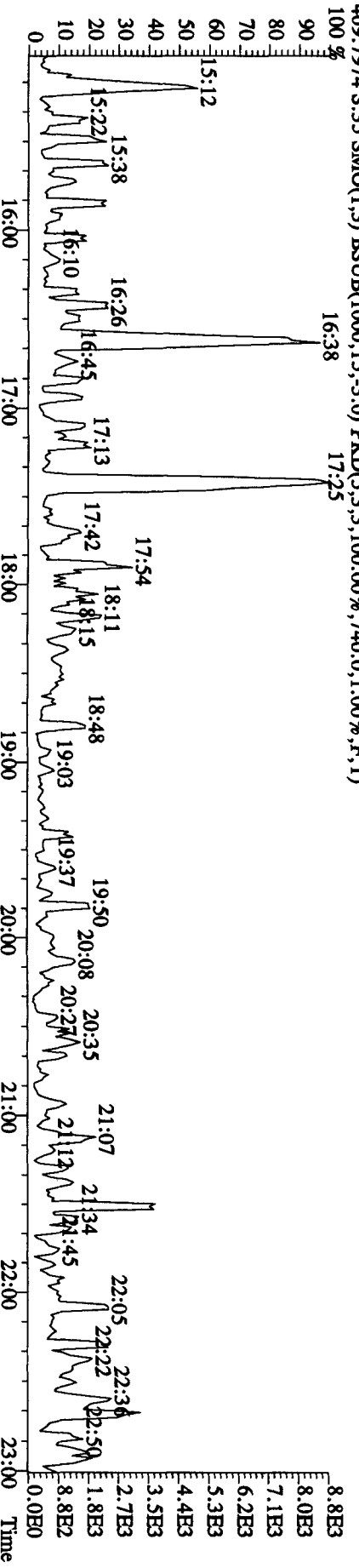
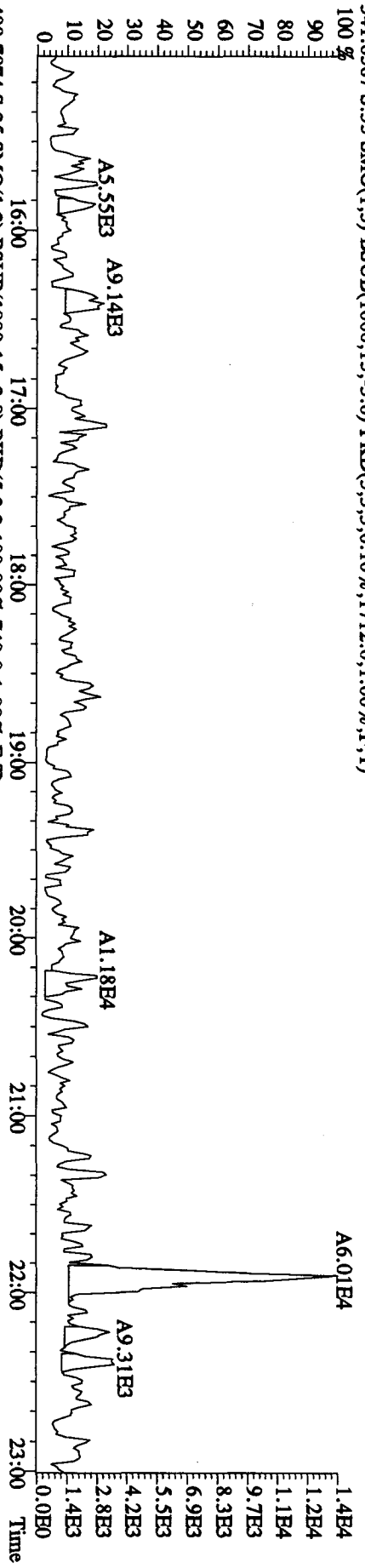
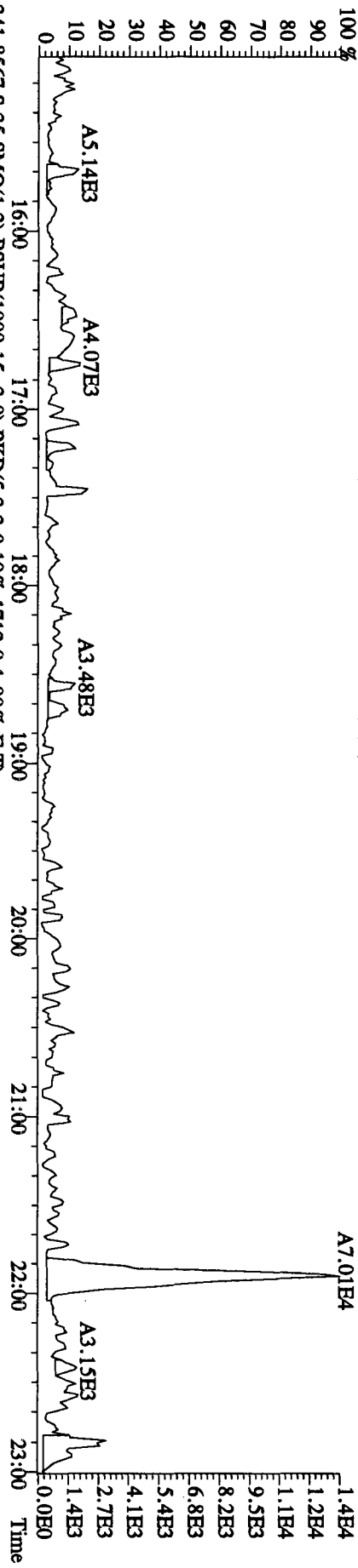


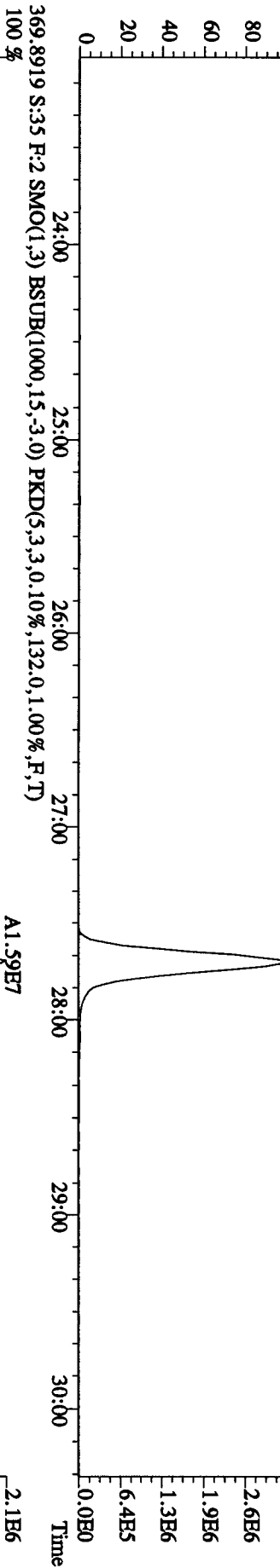
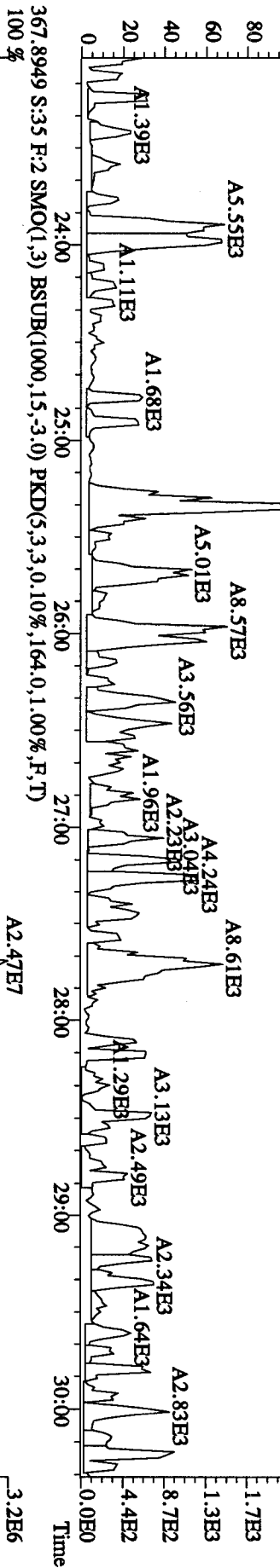
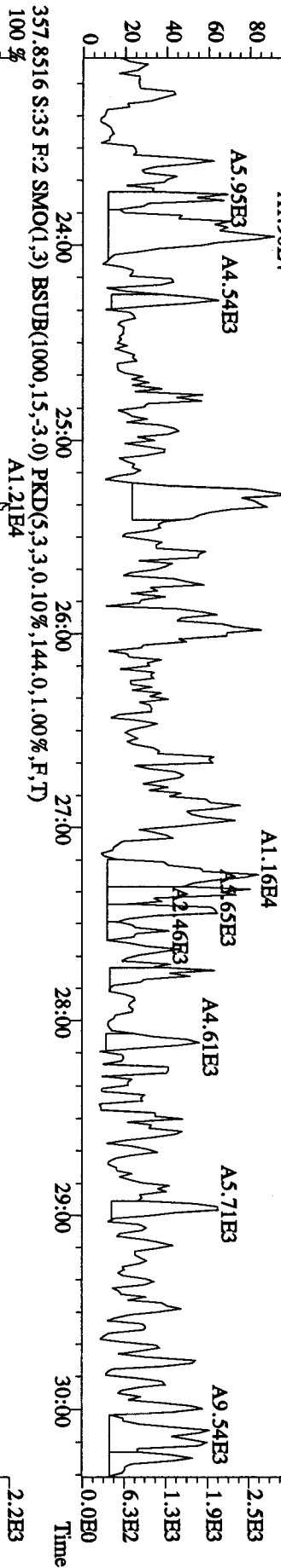
File: 280C104D5 #1-470 Acq: 29-OCT-2010 10:53:36 GC FI+ Voltage SIR Autospec-UltimaE
 Sample#35 Text: L8VH9-1-AA : G0J210484-14 Exp: DIOXINRES
 339.8597 S:35 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)
 100%



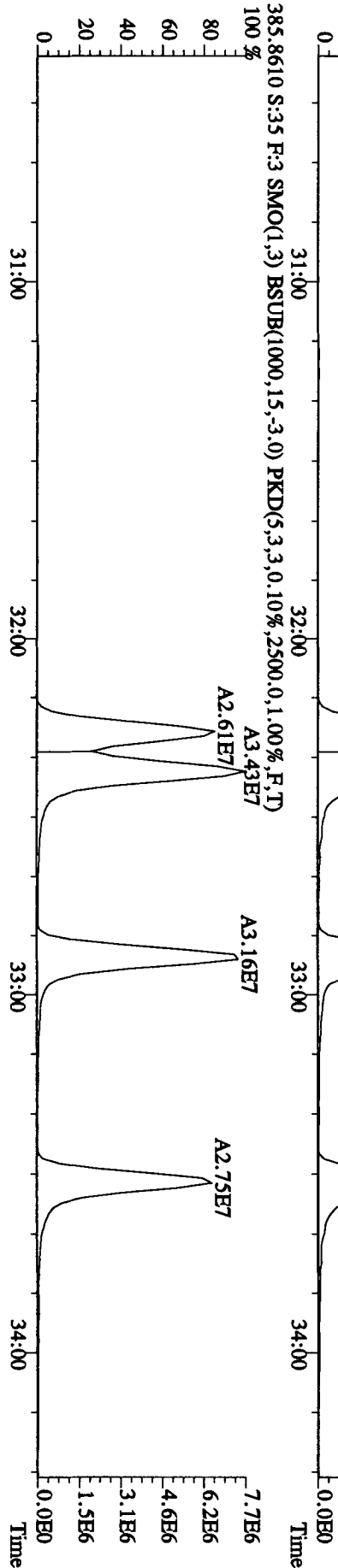
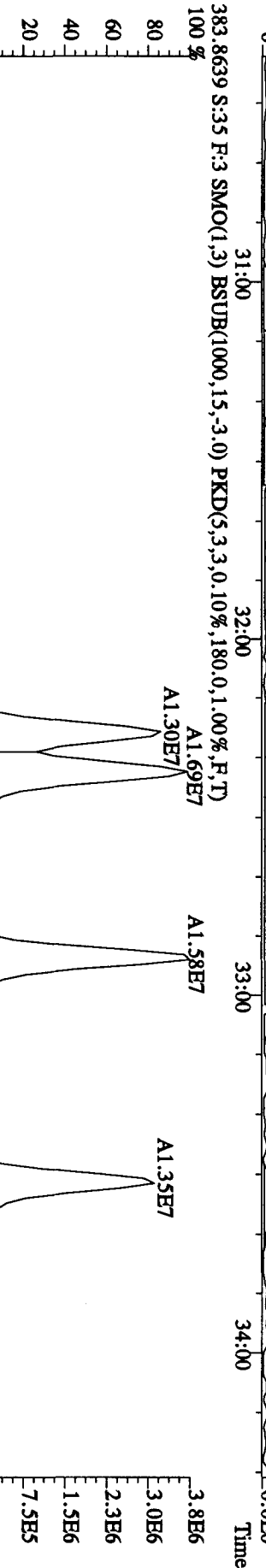
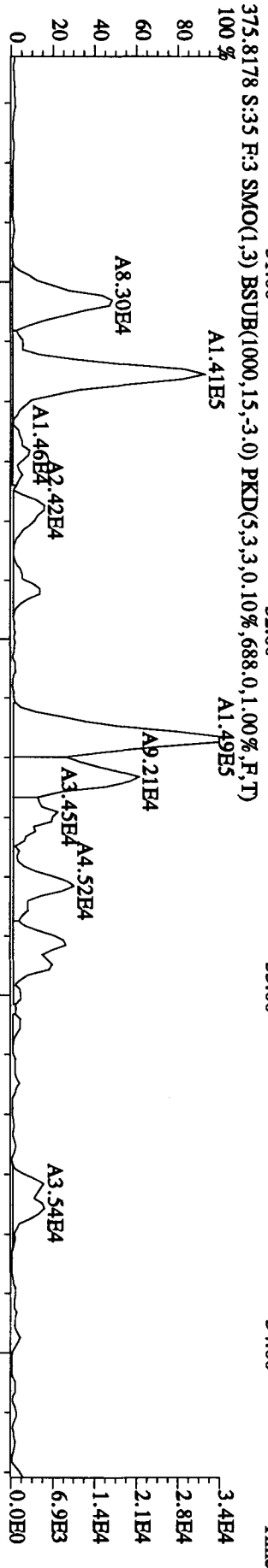
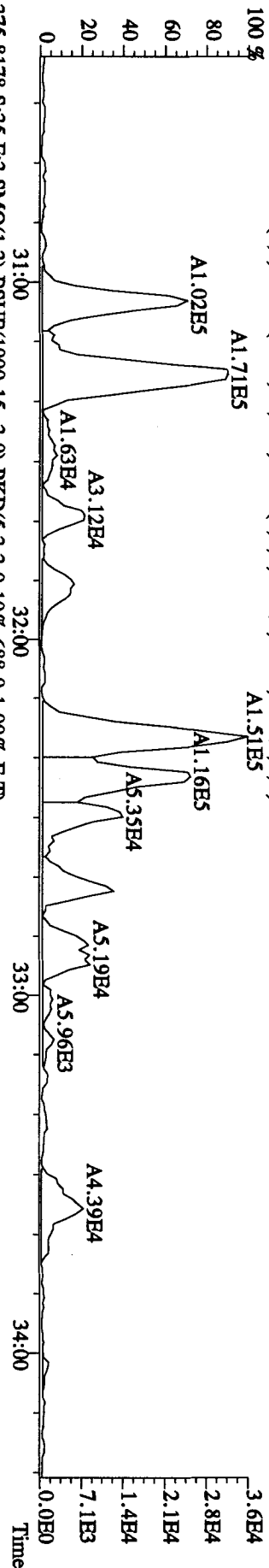
353.8970 S:35 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2072.0,1.00%,F,T)
 Manual Edit Codes
 1 Peak not found
 2 Poor chromatography
 3 Baseline correction
 4 Manual EDL calculation
 5 Separate near eluters
 6 Other
 Analyst VF Date 10-30-06

File:280C104D5 #1-530 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 339.8597 S:3.5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,728.0,1.00%,F,T)
 100%

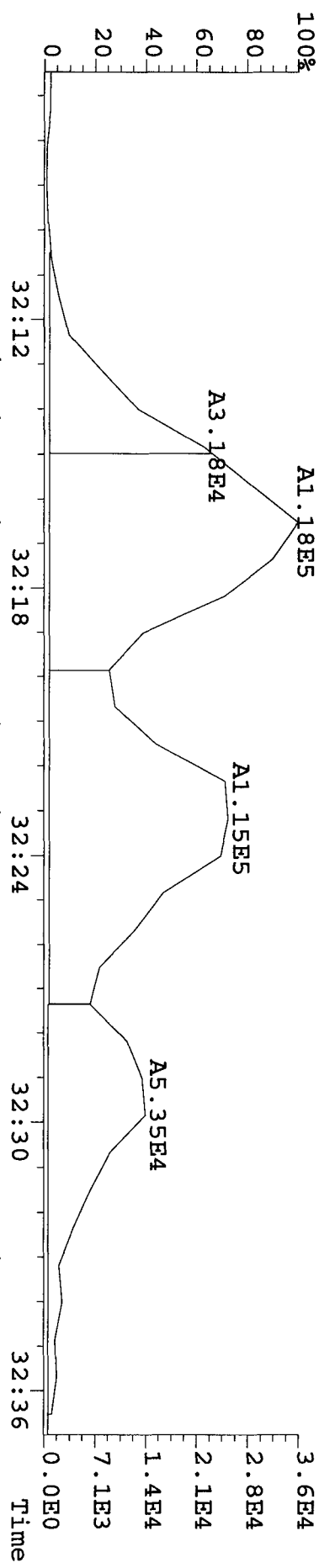




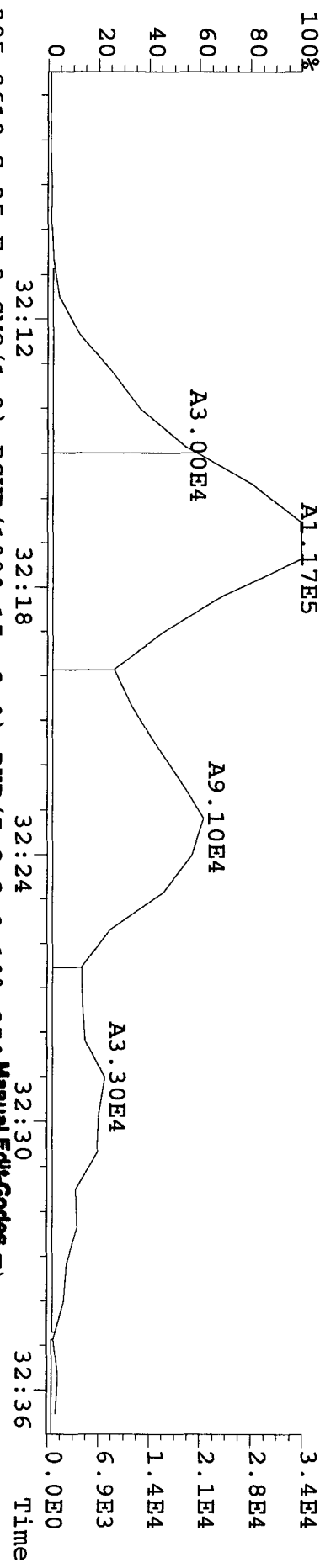
File:280C104D5 #1-287 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 373.8208 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,744.0,1.00%,F,T)
 100 % A1.51E5



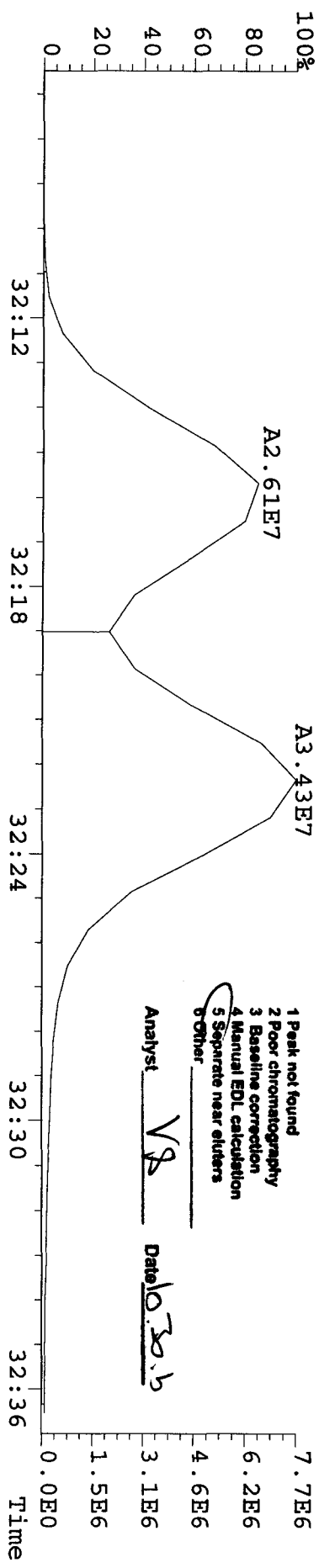
File:280C104D5 #1-287 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 Exp:DIOXINRES
 373.8208 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,744.0,1.00%,F,T)
 100% A1.18E5



375.8178 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)
 100% A1.17E5



385.8610 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,250.0,1.00%,F,T)
 100% A2.61E7

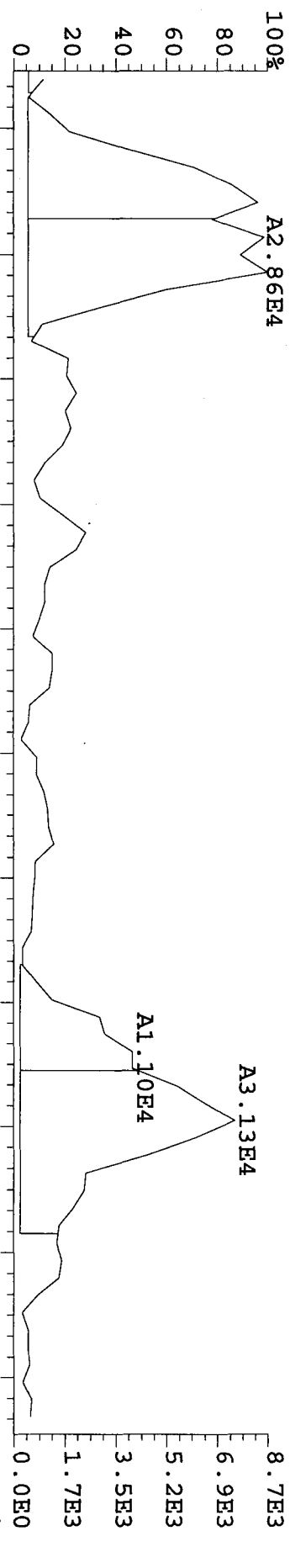


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

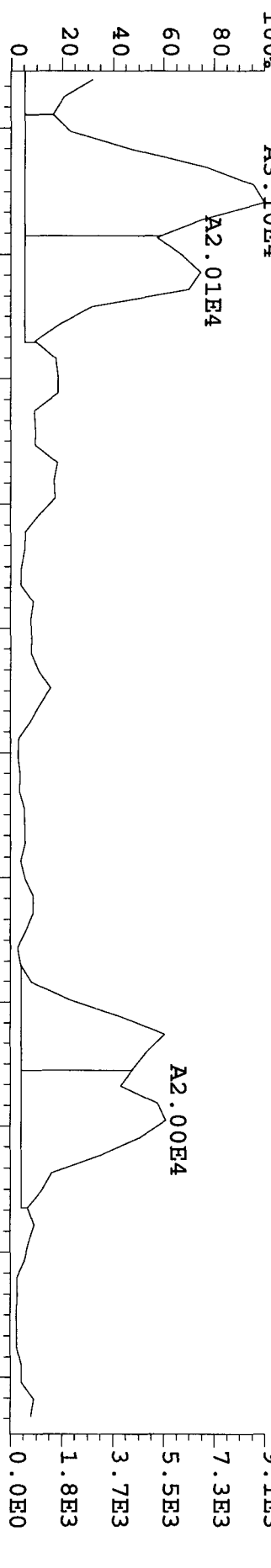
Analyst VR Date 10.30.10

Sample#35 Text:L8VH9-1-AA :G0J210484-14 Exp:DIOXINRES

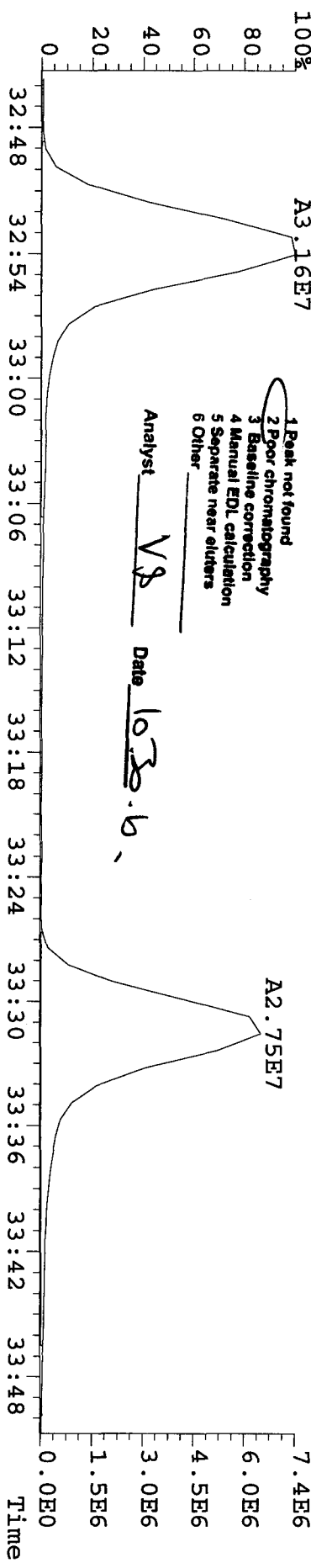
373.8208 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,744.0,1.00%,F,T)



375.8178 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)



385.8610 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2500.0,1.00%,F,T)

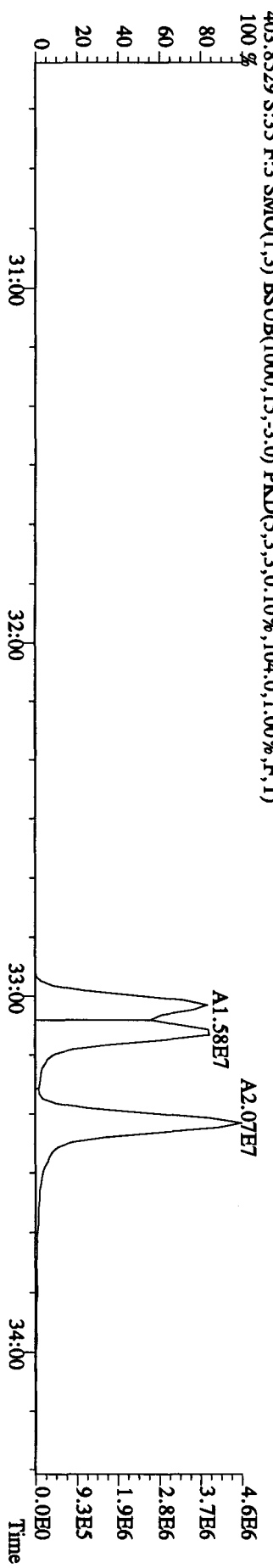
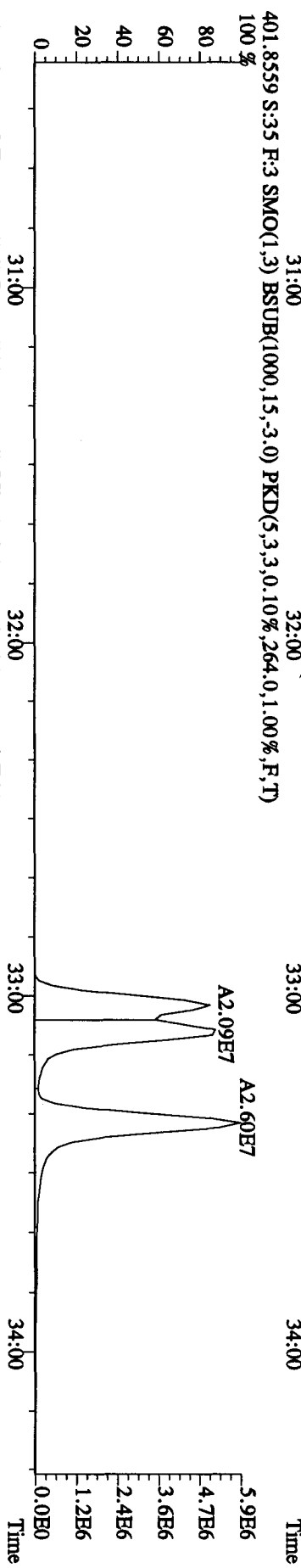
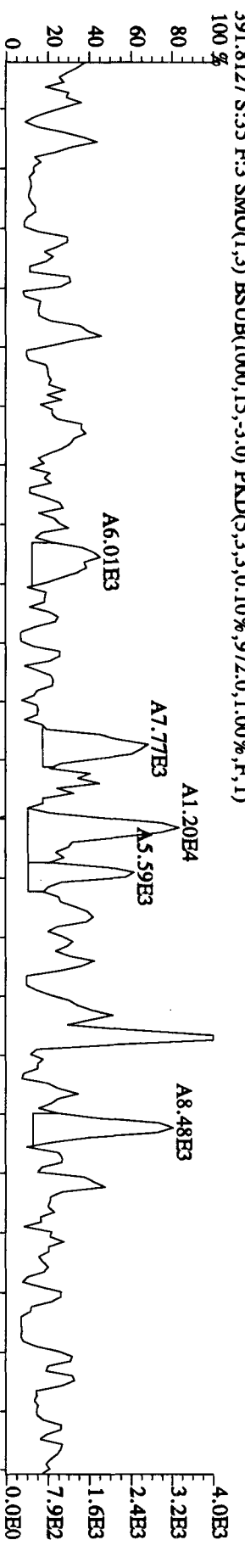
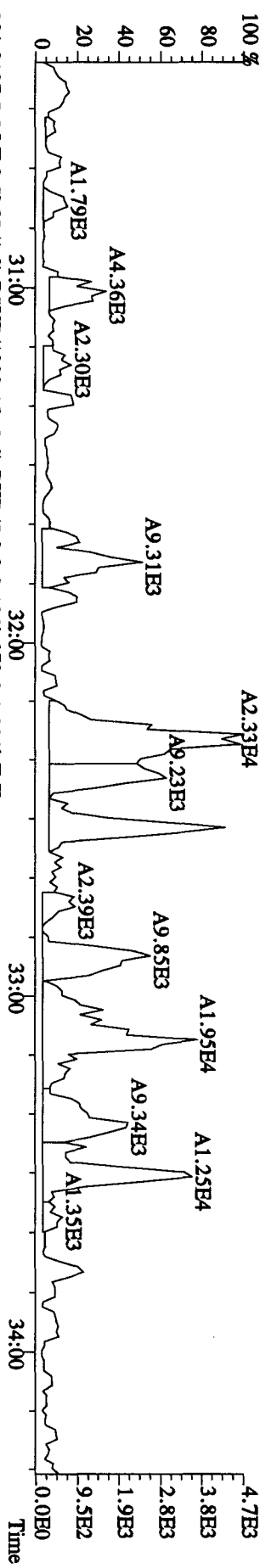


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst V8

Date 10-30-06

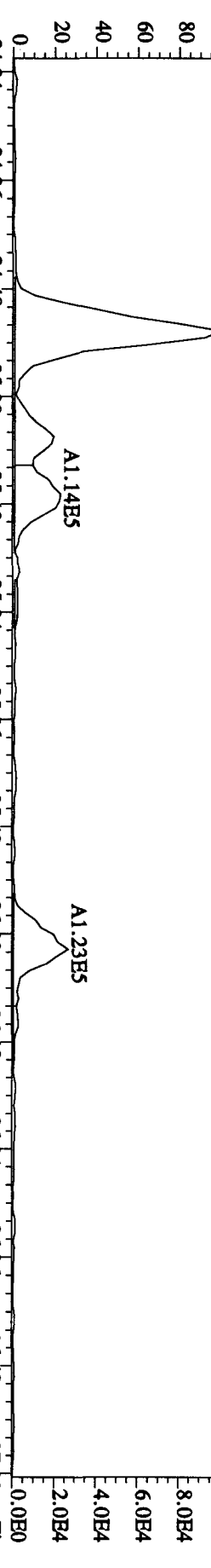
File:280C104D5 #1-287 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 389.8157 S:3.5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.364,0.1,00%,F,T)
 100 % A2.33E4



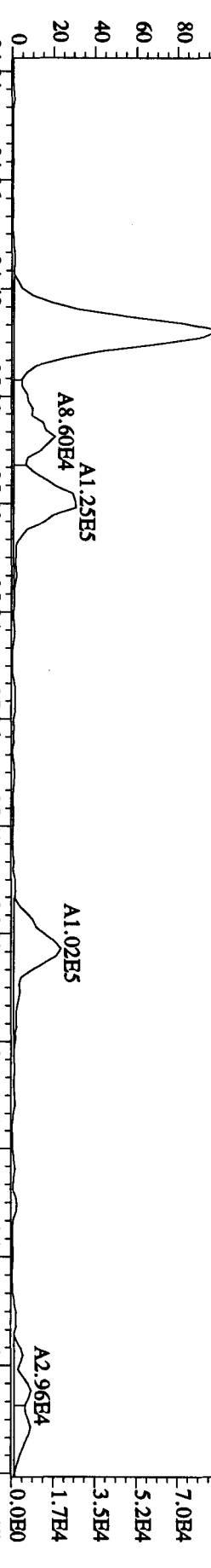
File:280C104D5 #1-200 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate

Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES

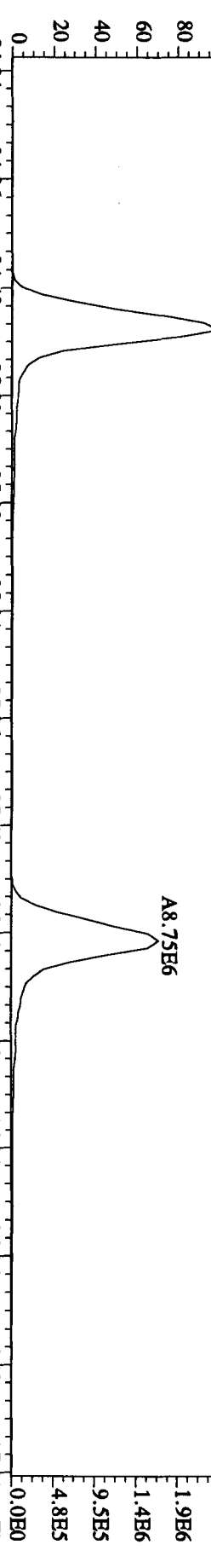
407.7818 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,904,0,1,100%,F,T)



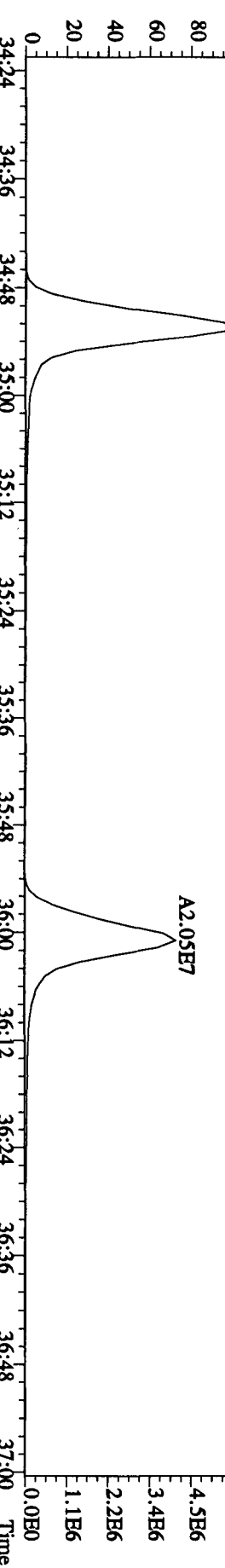
409.7789 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1116,0,1,100%,F,T)

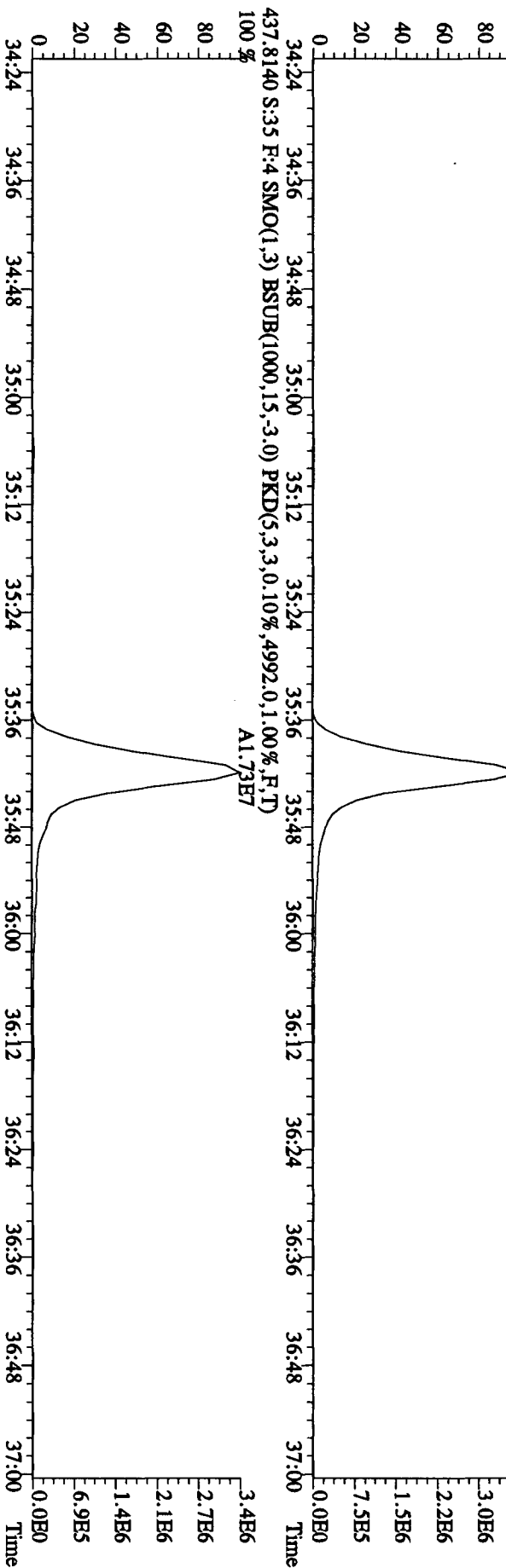
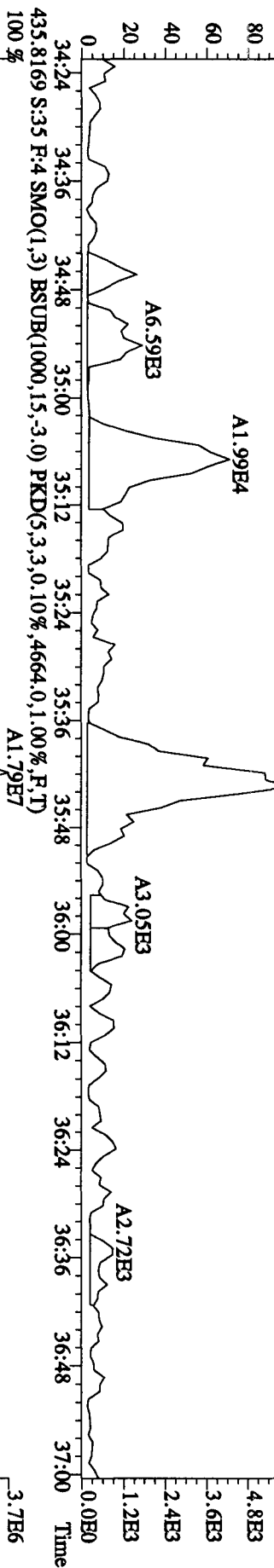
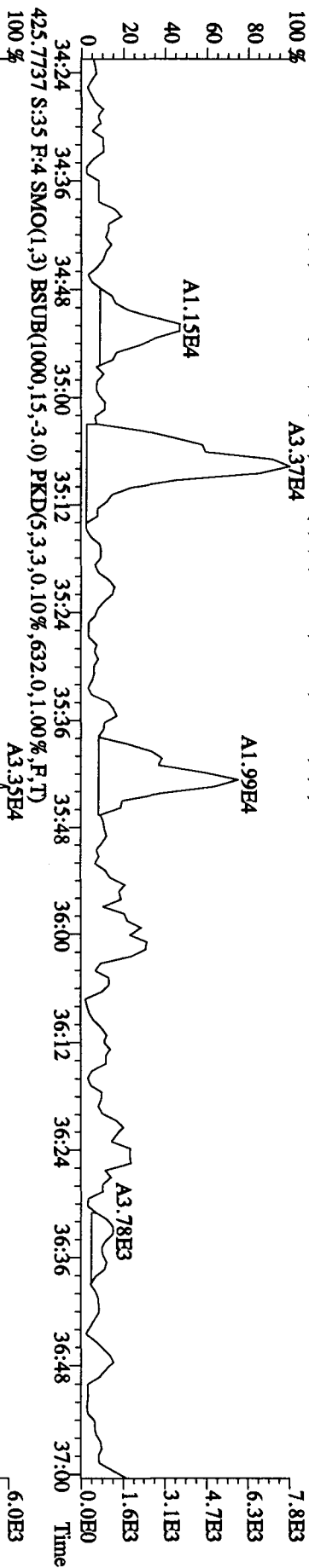


417.8253 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5652,0,1,100%,F,T)

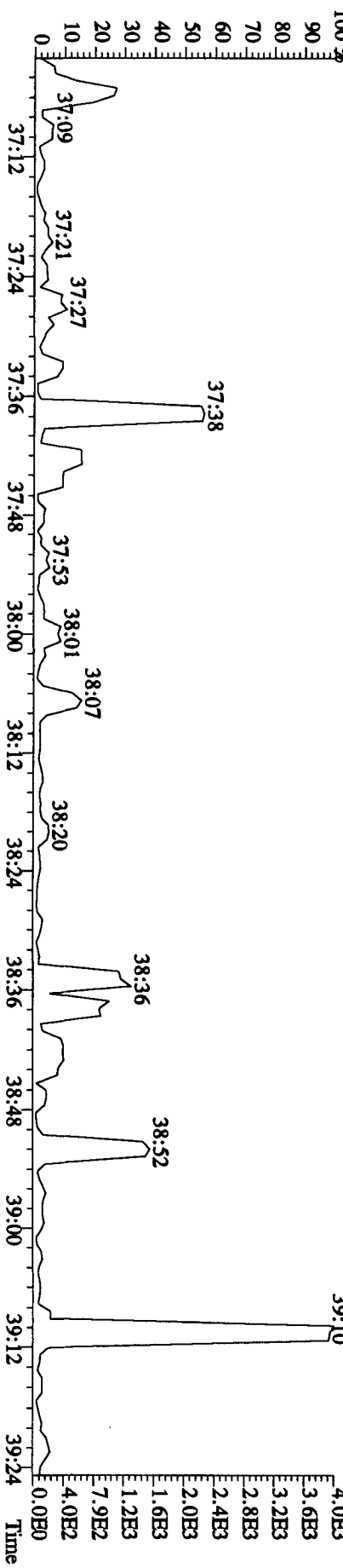
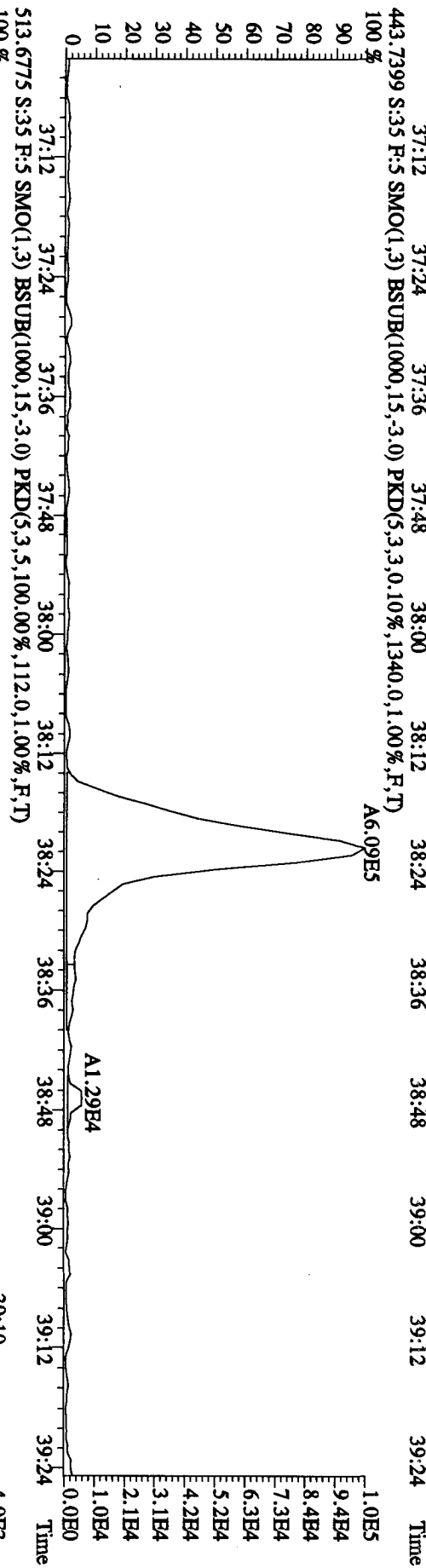
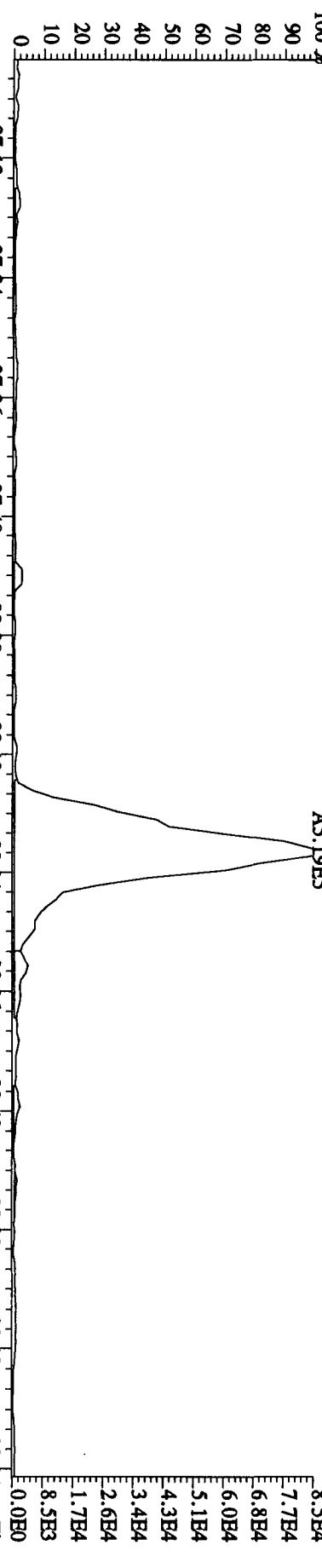


419.8220 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12328,0,1,100%,F,T)

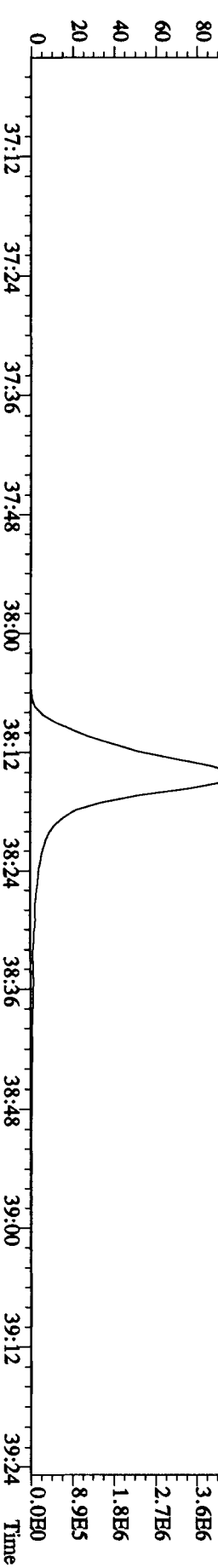
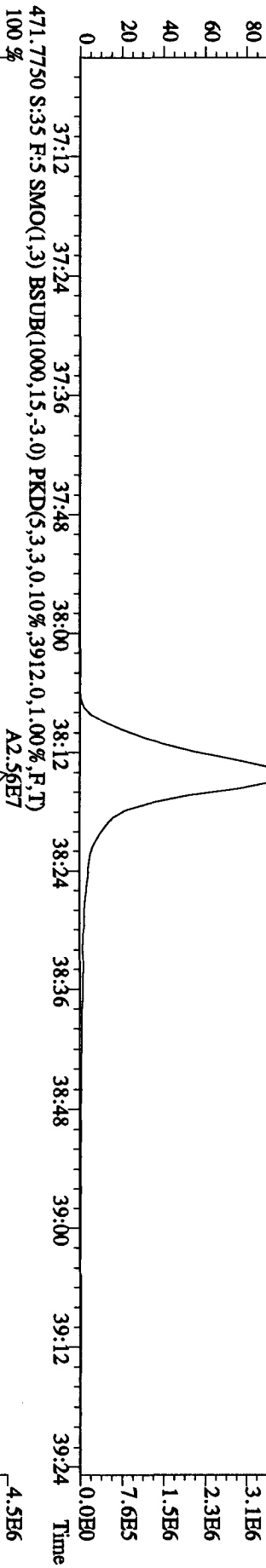
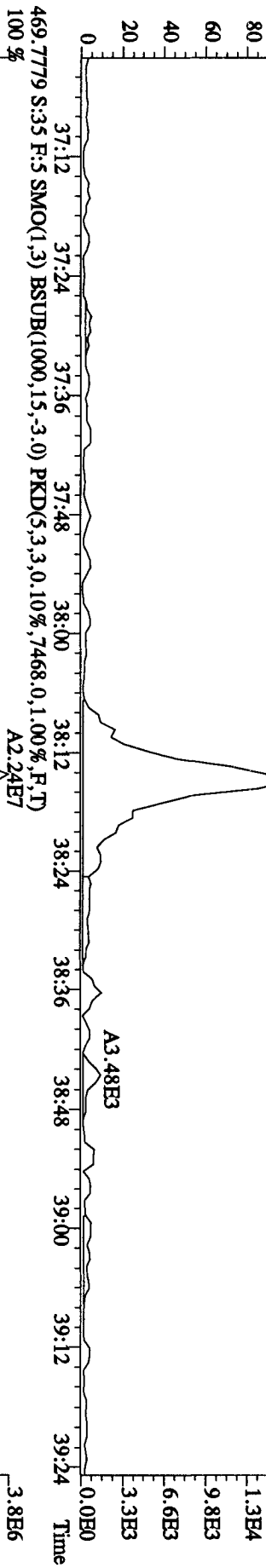
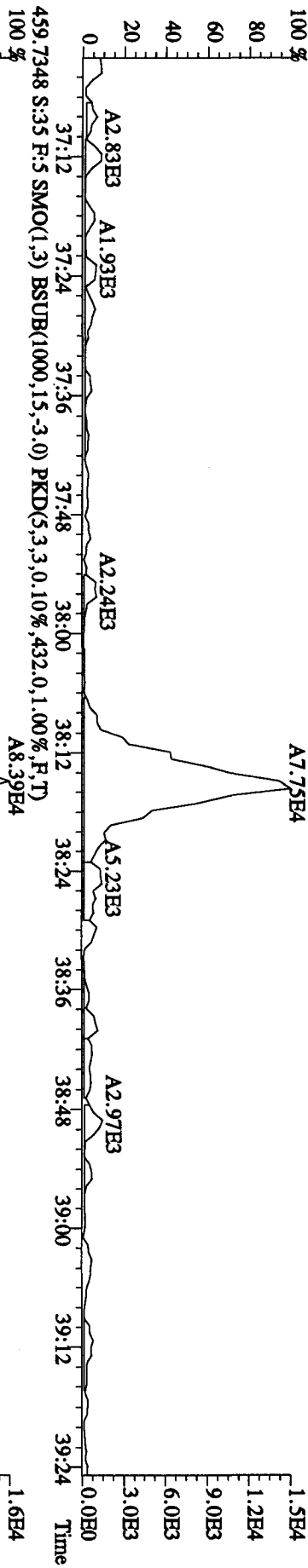




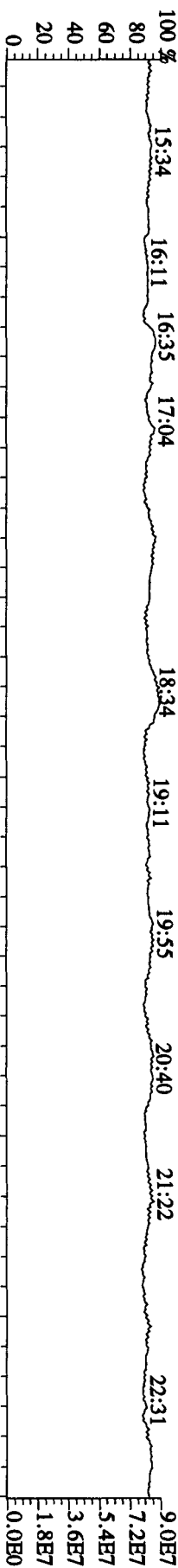
File:280C104D5 #1-193 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 441.7428 S:35 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,812.0,1.00%,F,T)



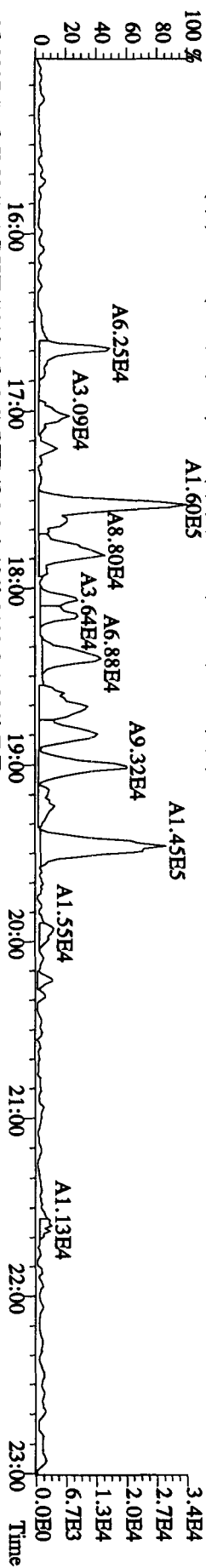
File: 280C104D5 #1-193 Acq: 29-OCT-2010 10:53:36 GC EI + Voltage SIR Autospec-UltimaE
 Sample#35 Text: L8VH9-1-AA : G0J210484-14 RI Exp: DIOXINRES
 457.7377 S:35 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,284.0,1.00%,F,T)
 100%



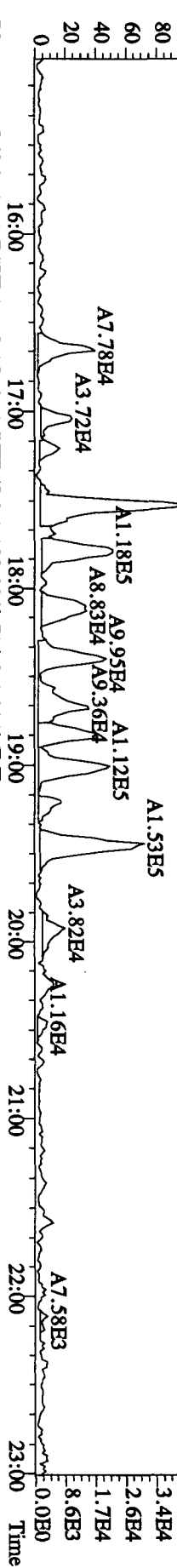
292.9825 S:3.5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



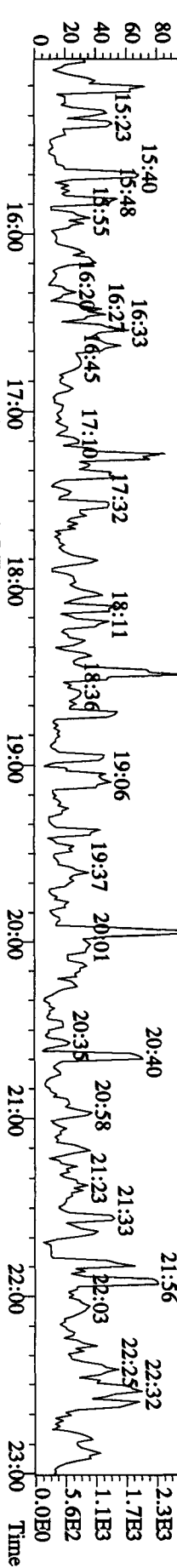
303.9016 S:3.5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T)



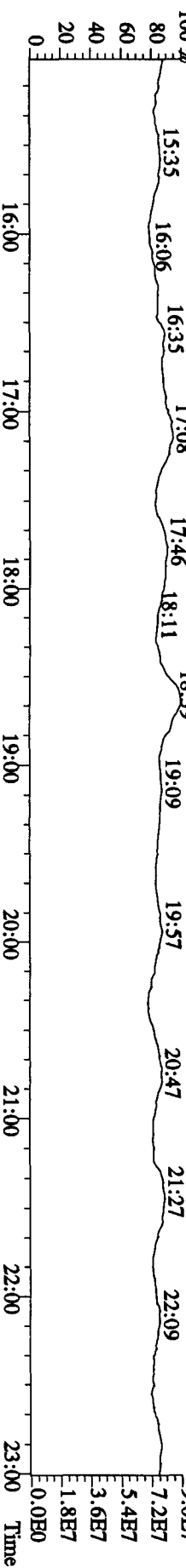
305.8987 S:3.5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108.0,1.00%,F,T)

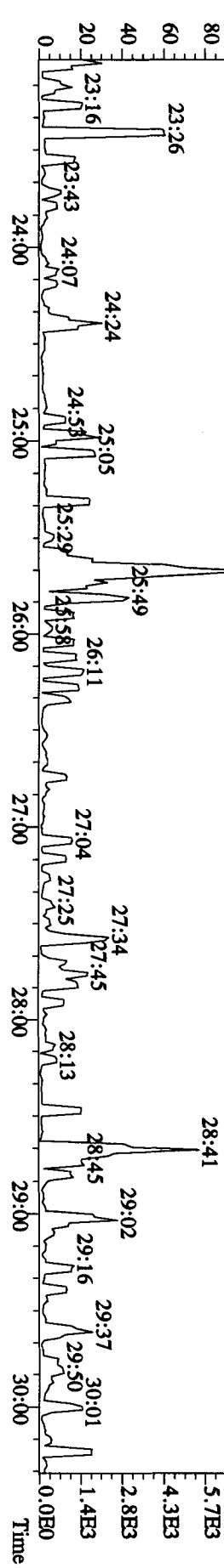
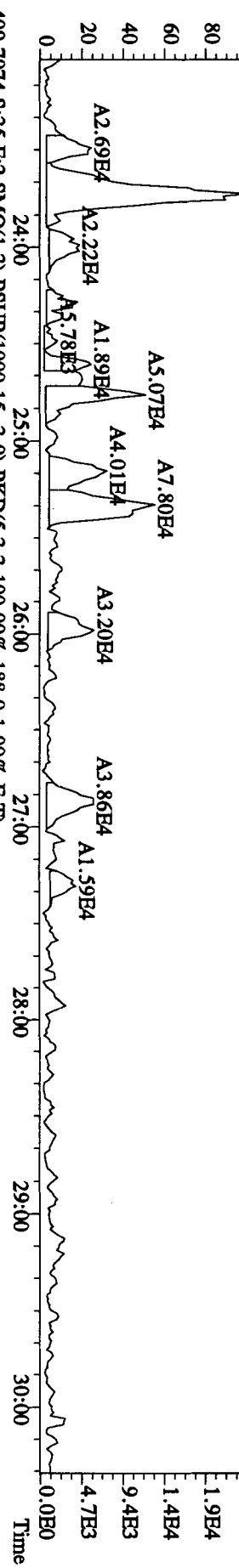
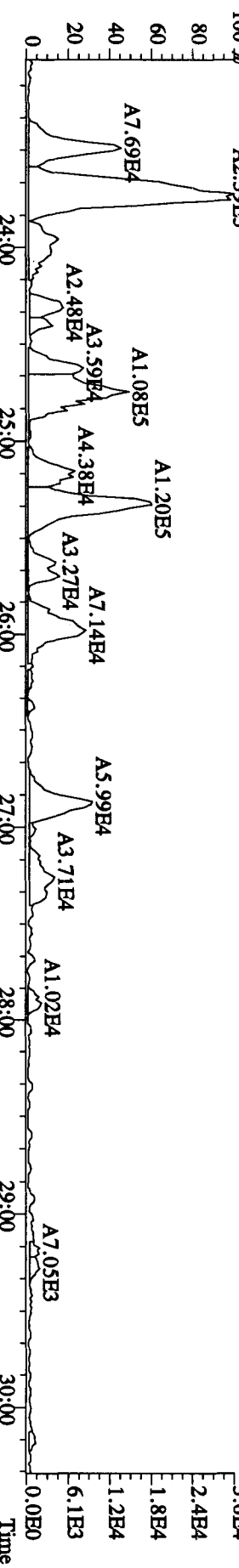
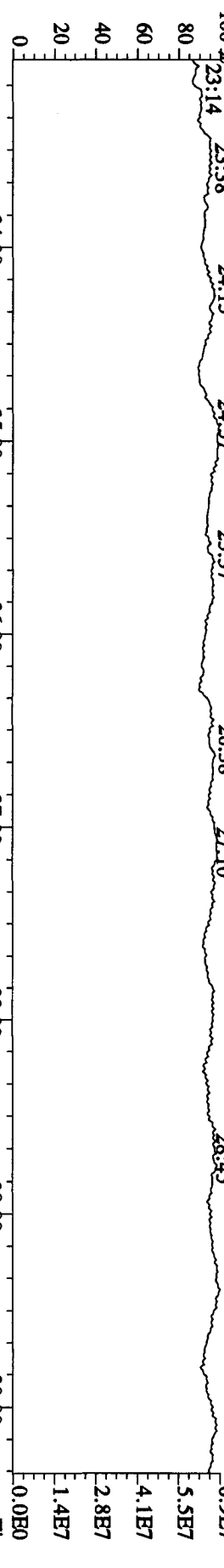


375.8364 S:3.5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,704.0,1.00%,F,T)

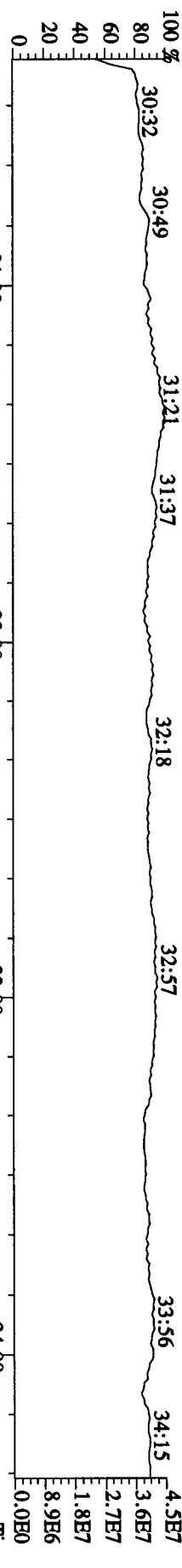


330.9792 S:3.5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

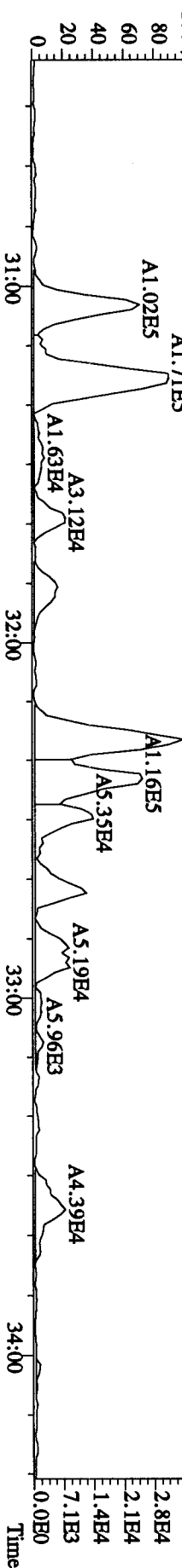




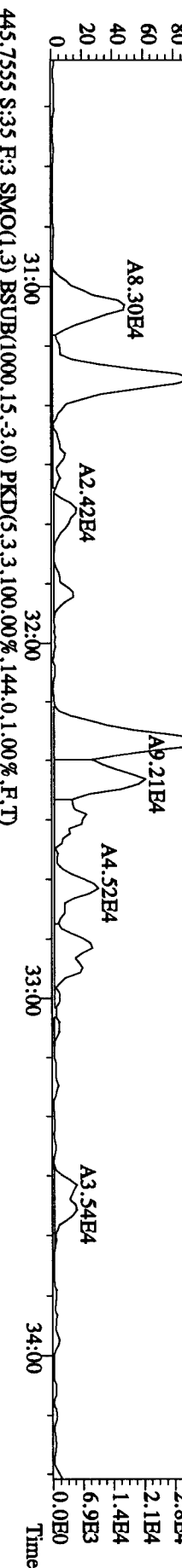
File:280C104D5 #1-287 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#35 Text:L8VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 392.9760 S:35 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



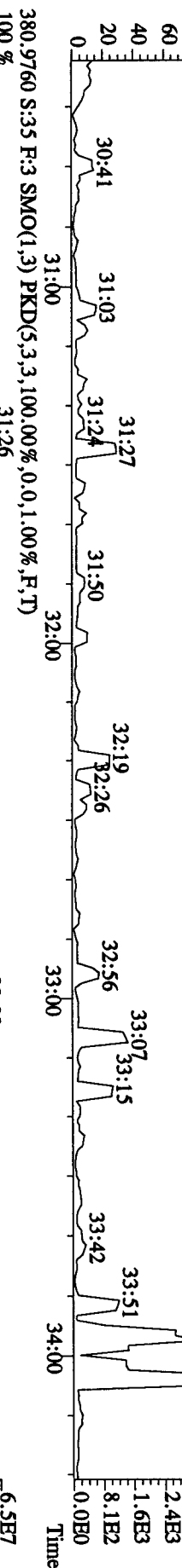
373.8208 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,744.0,1.00%,F,T)



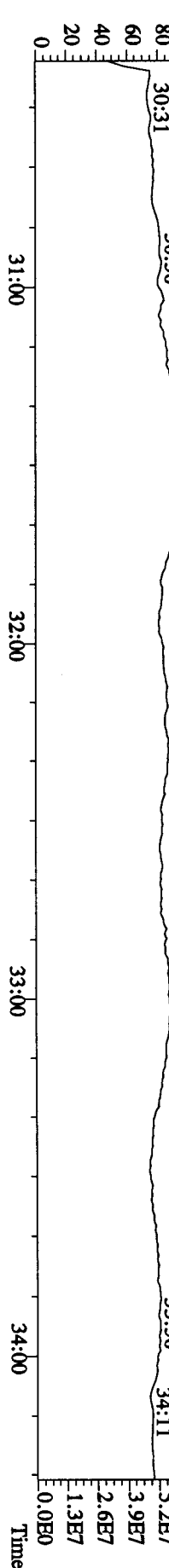
375.8178 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)



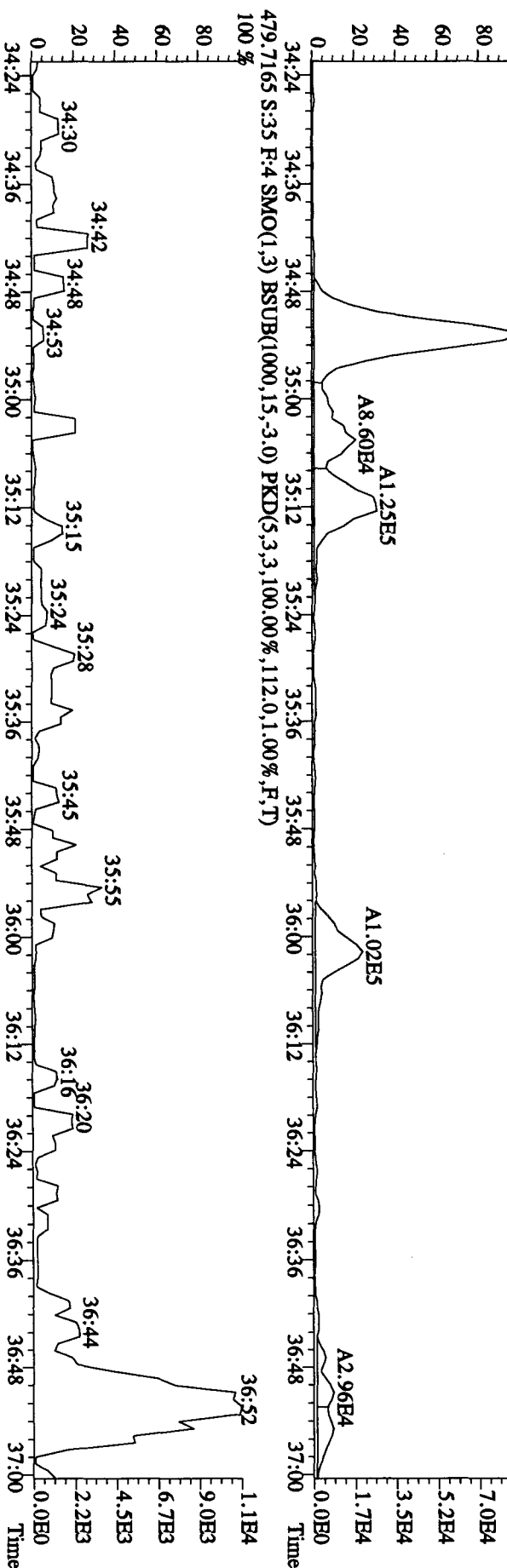
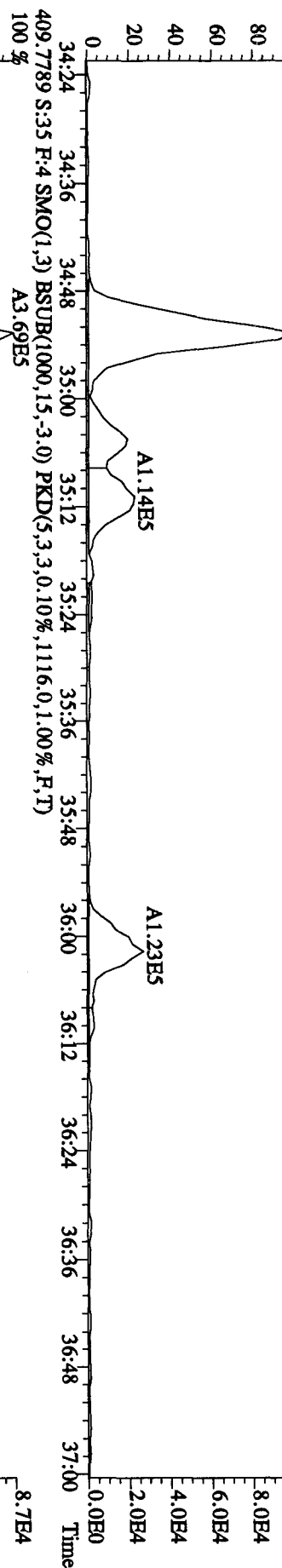
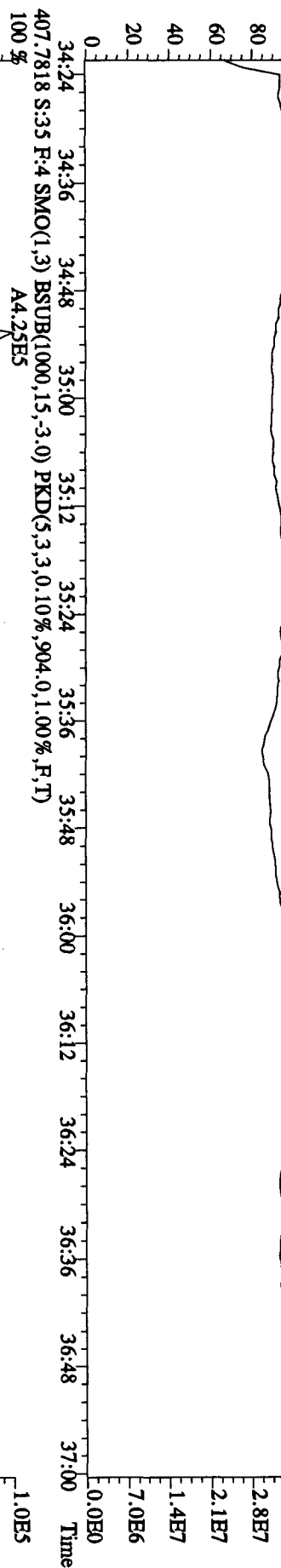
445.7555 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,144.0,1.00%,F,T)



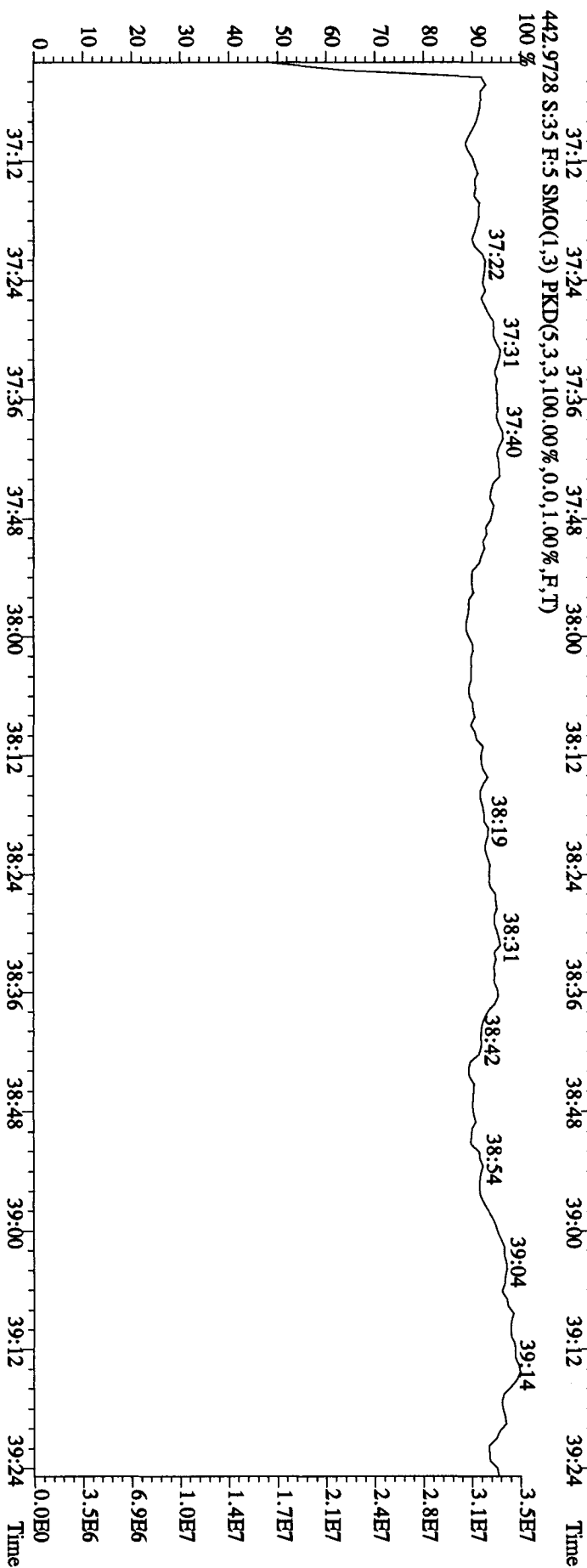
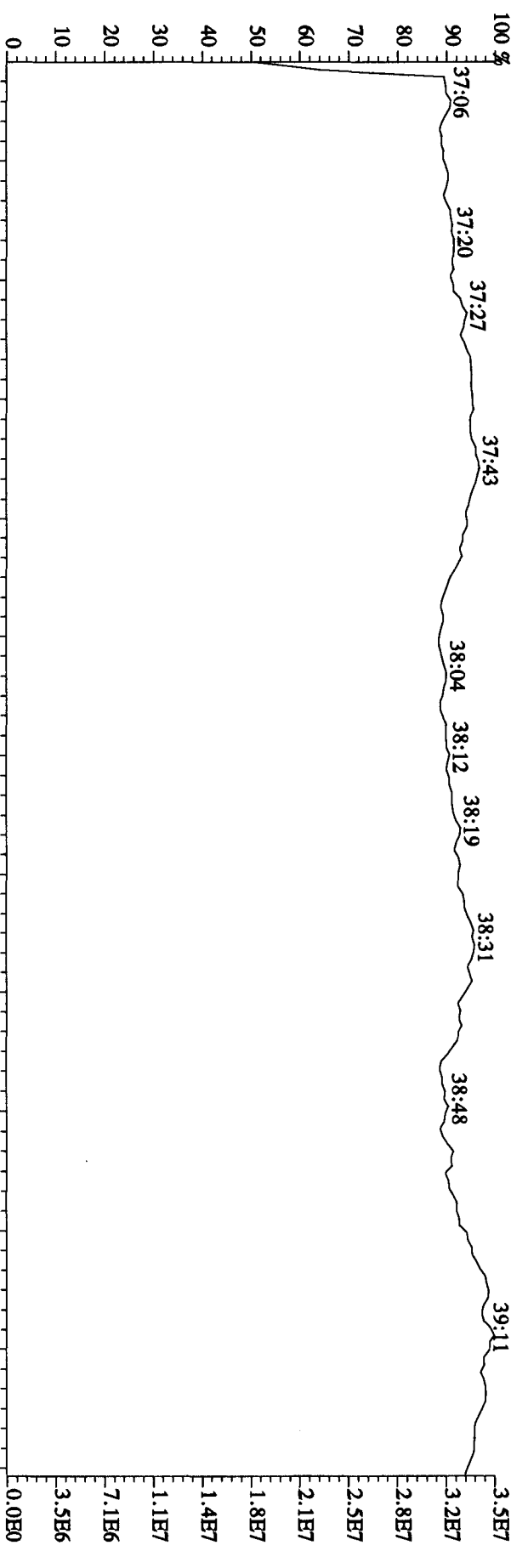
380.9760 S:35 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:280C104D5 #1-200 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#35 Text:L8VH9-1-AA : G0J210484-14 RI Exp:DIOXINRES
 430.9728 S:35 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 34:40 35:13 35:24 36:03 36:19 36:32 36:47 36:56 3.5E7



File:28OC104D5 #1-193 Acq:29-OCT-2010 10:53:36 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#35 Text:18VH9-1-AA :G0J210484-14 RI Exp:DIOXINRES
 454.9728 S:35 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



Run text: L8VJE-1-AA Sample text: L8VJE-1-AA :G0J210484-17 RI
 Run #18 Filename: 28OC104D5 S: 36 I: 1 Results: 28oc104d5to9vg
 Acquired: 29-OCT-10 11:38:12 Processed: 29-OCT-10 12:54:34
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

V8 10.28.6

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68532700	0.80 y	20:02	-	41.04	-	-	n
13C-2,3,7,8-TCDF	76956100	0.81 y	19:26	1.23	3653.69	3.73	91.3	n
2,3,7,8-TCDF	2913570	0.74 y	19:28	0.99	152.28	2.51	-	n
Total TCDF	31924363	0.57 n	16:07	0.99	1668.51 <i>1664.65</i>	2.51	-	n
13C-2,3,7,8-TCDD	59024100	0.79 y	20:14	0.91	3806.42	5.49	95.2	n
2,3,7,8-TCDD	23938	0.37 n	20:18	0.98	1.65	2.06	-	n
Total TCDD	1496311	1.61 n	16:49	0.98	103.11 <i>89.28</i>	2.06	-	n
37Cl-2,3,7,8-TCDD	32273800	1.00 y	20:16	1.33	1649.36	2.58	103.1	n
13C-1,2,3,7,8-PeCDF	59441500	1.56 y	25:19	0.88	3960.25	2.01	99.0	n
1,2,3,7,8-PeCDF	548924	1.44 y	25:20	1.08	34.31	4.02	-	n
2,3,4,7,8-PeCDF	260164	1.30 n	26:55	1.05	16.74	4.14	-	n
Total F2 PeCDF	5357995	1.57 y	23:30	1.06	339.53	4.08	-	y
Total F1 PeCDF	850617	0.15 n	15:19	1.06	55.94 <i>378.28</i>	1.77	-	n
13C-1,2,3,7,8-PeCDD	43381500	1.54 y	27:43	0.66	3831.60	2.42	95.8	n
1,2,3,7,8-PeCDD	3248	3.98 n	27:51	0.93	0.32	2.48	-	n
Total PeCDD	318341	1.57 y	23:58	0.93	31.72 <i>25.41</i>	2.48	-	n
13C-1,2,3,7,8,9-HxCDD	45019000	1.29 y	33:21	-	38.02	-	-	n
13C-1,2,3,4,7,8-HxCDF	42183900	0.49 y	32:16	1.04	3587.43	0.24	89.7	n
1,2,3,4,7,8-HxCDF	469209	1.19 y	32:17	1.22	36.55	1.41	-	y
1,2,3,6,7,8-HxCDF	373232	1.34 y	32:24	1.28	27.61	1.34	-	n
2,3,4,6,7,8-HxCDF	90904	1.07 y	32:55	1.23	6.99	1.40	-	y
1,2,3,7,8,9-HxCDF	35296	0.98 n	33:33	1.10	3.05	1.57	-	y
Total HxCDF	2612157	0.98 n	31:04	1.21	203.25 <i>192.91</i>	1.43	-	y
13C-1,2,3,6,7,8-HxCDD	42041600	1.29 y	33:06	0.83	4496.26	2.40	112.4	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.04	*	1.44	-	n
1,2,3,6,7,8-HxCDD	31264	0.92 n	33:08	1.16	2.56	1.28	-	n
1,2,3,7,8,9-HxCDD	22394	1.03 n	33:21	1.18	1.80	1.26	-	n
Total HxCDD	195378	2.23 n	31:46	1.13	16.32 <i>8.04</i>	1.32	-	n
13C-1,2,3,4,6,7,8-HpCDF	37350300	0.42 y	34:53	0.91	3646.75	18.05	91.2	n
1,2,3,4,6,7,8-HpCDF	1011467	1.03 y	34:53	1.35	80.49	1.71	-	n
1,2,3,4,7,8,9-HpCDF	299276	0.97 y	36:02	1.09	29.31	2.11	-	n
Total HpCDF	1924882	1.03 y	34:53	1.22	163.73 <i>162.74</i>	1.89	-	n
13C-1,2,3,4,6,7,8-HpCDD	36565700	1.04 y	35:42	0.83	3930.43	14.27	98.3	n
1,2,3,4,6,7,8-HpCDD	81998	0.79 n	35:43	1.07	8.37	1.22	-	n
Total HpCDD	166897	5.30 n	34:37	1.07	17.04 <i>14.09</i>	1.22	-	n
13C-OCDD	49683200	0.87 y	38:15	0.62	7121.20	25.79	89.0	n
OCDF	1483263	0.83 y	38:23	1.37	174.29	4.77	-	n

OCDD 139448 0.86 y 38:15 1.20

18.72 *RTJ* 2.46

- n

Run text: L8VJE-1-AA Sample text: L8VJE-1-AA :G0J210484-17 RI
 Run #18 Filename: 28OC104D5 S: 36 I: 1 Results: 28OC104D5TO9
 Acquired: 29-OCT-10 11:38:12 Processed: 29-OCT-10 12:54:34
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68532718	0.80 y	20:02	-	41.039	-	-	n
13C-2,3,7,8-TCDF	76956064	0.81 y	19:26	1.23	3653.691	3.732	91.3	n
2,3,7,8-TCDF	2913570	0.74 y	19:28	0.99	152.276	2.507	-	n
Total TCDF	31943529	0.57 n	16:07	0.99	1669.512 1664.65	2.507	-	n
13C-2,3,7,8-TCDD	59024116	0.79 y	20:14	0.91	3806.416	5.490	95.2	n
2,3,7,8-TCDD	23938	0.37 n	20:18	0.98	1.650	2.064	-	n
Total TCDD	1496311	1.61 n	16:49	0.98	103.108 89.28	2.064	-	n
37Cl-2,3,7,8-TCDD	32273714	1.00 y	20:16	1.33	1649.351	2.581	103.1	n
13C-1,2,3,7,8-PeCDF	59441494	1.56 y	25:19	0.88	3960.253	2.010	99.0	n
1,2,3,7,8-PeCDF	548923	1.44 y	25:20	1.08	34.309	4.019	-	n
2,3,4,7,8-PeCDF	260164	1.30 n	26:55	1.05	16.744	4.139	-	n
Total F2 PeCDF	5199699	1.57 y	23:30	1.06	329.495	4.078	-	n
Total F1 PeCDF	849571	0.15 n	15:19	1.06	83.878	1.472	-	n
13C-1,2,3,7,8-PeCDD	43381512	1.54 y	27:43	0.66	3831.602	2.419	95.8	n
1,2,3,7,8-PeCDD	3248	3.98 n	27:51	0.93	0.324	2.482	-	n
Total PeCDD	318341	1.57 y	23:58	0.93	31.717 25.41	2.482	-	n
13C-1,2,3,7,8,9-HxCDD	45019030	1.29 y	33:21	-	38.023	-	-	n
13C-1,2,3,4,7,8-HxCDF	42183951	0.49 y	32:16	1.04	3587.431	0.243	89.7	n
1,2,3,4,7,8-HxCDF	541168	1.15 y	32:17	1.22	42.157	1.414	-	n
1,2,3,6,7,8-HxCDF	373233	1.34 y	32:24	1.28	27.614	1.343	-	n
2,3,4,6,7,8-HxCDF	194225	1.21 y	32:51	1.23	14.932	1.396	-	n
1,2,3,7,8,9-HxCDF	96863	0.97 n	33:36	1.10	8.364	1.568	-	n
Total HxCDF	2618188	0.98 n	31:04	1.21	203.993 192.91	1.426	-	n
13C-1,2,3,6,7,8-HxCDD	42041598	1.29 y	33:06	0.83	4496.259	2.398	112.4	n
1,2,3,4,7,8-HxCDD	*	* n	Not Fnd	1.04	*	1.438	-	n
1,2,3,6,7,8-HxCDD	31264	0.92 n	33:08	1.16	2.558	1.282	-	n
1,2,3,7,8,9-HxCDD	22394	1.03 n	33:21	1.18	1.803	1.262	-	n
Total HxCDD	195378	2.23 n	31:46	1.13	16.323 8.04	1.323	-	n
13C-1,2,3,4,6,7,8-HpCDF	37350282	0.42 y	34:53	0.91	3646.747	18.045	91.2	n
1,2,3,4,6,7,8-HpCDF	1011467	1.03 y	34:53	1.35	80.491	1.714	-	n
1,2,3,4,7,8,9-HpCDF	299276	0.97 y	36:02	1.09	29.312	2.109	-	n
Total HpCDF	1924881	1.03 y	34:53	1.22	163.730 162.27	1.891	-	n
13C-1,2,3,4,6,7,8-HpCDD	36565654	1.04 y	35:42	0.83	3930.418	14.271	98.3	n
1,2,3,4,6,7,8-HpCDD	81998	0.79 n	35:43	1.07	8.370	1.216	-	n
Total HpCDD	161542	5.30 n	34:37	1.07	16.489 14.09	1.216	-	n
13C-OCDD	49683212	0.87 y	38:15	0.62	7121.199	25.788	89.0	n

OCDF	1483263	0.83	y	38:23	1.37	174.294	7	4.773	-	n
OCDD	139448	0.86	y	38:15	1.20	18.722		2.456	-	n

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:21
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 834.756 of which 76.138 named and 758.618 unnamed
 Conc: 1669.512 of which 152.276 named and 1517.236 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:07	0.569 n	0.729	6065 10651	1.554 1.599	n	n
	2	16:39	0.828 y	149.137	1292465 1561042	239.431 195.393	y	n
	3	17:02	0.779 y	45.334	379735 487655	66.753 55.594	y	n
	4	17:12	0.853 y	30.454	268146 314537	49.755 37.393	y	n
	5	17:31	0.805 y	354.304	3023840 3755230	437.915 369.334	y	n
	6	17:47	0.769 y	187.241	1557805 2024768	199.864 165.404	y	n
	7	18:08	0.763 y	154.142	1276116 1673145	117.205 105.913	y	n
	8	18:24	0.796 y	133.094	1128350 1418194	163.130 145.977	y	n
	9	18:42	0.747 y	118.683	970668 1300148	116.399 99.600	y	n
	10	18:50	0.784 y	147.681	1241927 1583715	175.304 163.276	y	n
	11	19:01	0.843 y	115.058	1006957 1194500	159.736 127.372	y	n
	12	19:16	0.798 y	30.945	262763 329328	29.484 23.342	y	n
2,3,7,8-TCDF	13	19:28	0.745 y	152.276	1243667 1669904	147.781 139.804	y	n
	14	19:46	0.857 y	0.800	7061 8241	1.584 1.308	n	n
	15	19:56	0.929 n	15.641	157027 169073	20.643 15.497	y	n

1664.65

16	20:14	0.867	y	16.473	146324	15.553	y	n
					168855	12.378	y	n
17	20:30	0.696	y	6.857	53844	6.183	y	n
					77362	7.958	y	n
18	20:40	0.224	n	0.358	2984	0.815	n	n
					13331	1.564	n	n
19	21:34	0.733	y	7.725	62524	7.945	y	n
					85290	8.369	y	n
20	21:42	1.014	n	0.488	5347	1.278	n	n
					5273	0.720	n	n
21	22:37	0.839	y	2.092	18263	<u>2.705</u>	n	n
					21768	2.128	n	n

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:15
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 51.554 of which 0.825 named and 50.729 unnamed
 Conc: 103.108 of which 1.650 named and 101.458 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:49	1.608 n	0.357	4709 2929	1.789 0.992	n	n
	2	16:59	1.690 n	0.494	6844 4051	2.150 1.127	n	n
	3	17:41	0.814 y	26.377	171780 211008	48.001 42.136	y	n
	4	18:01	0.865 y	34.027	229089 264717	58.702 51.897	y	n
	5	18:18	0.845 y	4.274	28407 33622	6.860 5.381	y	n
	6	18:57	0.691 y	11.834	70189 101547	17.378 15.912	y	n
	7	19:14	0.719 y	5.729	34781 48360	5.974 5.733	y	n
	8	19:18	1.282 n	1.050	11042 8612	4.353 2.327	y	n
	9	19:25	2.765 n	0.720	16320 5902	4.303 1.444	y	n
	10	19:39	2.192 n	1.840	33067 15085	9.469 4.081	y	n
	11	20:04	0.355 n	3.262	20593 58079	5.018 7.796	y	n
	12	20:09	0.759 y	7.041	44104 58079	13.128 7.796	y	n
2,3,7,8-TCDD	13	20:18	0.370 n	1.650	10414 28126	3.491 6.314	y	n
	14	20:28	1.353 n	2.093	23210 17159	4.686 2.305	y	n
	15	20:40	0.787 y	2.359	15083 19154	3.191 2.679	y	n

89.20

LEDL

NOISE

NOISE

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:13
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 164.747 of which 25.527 named and 139.221 unnamed
 Conc: 329.495 of which 51.053 named and 278.442 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:30	1.574 y	28.343	273295 173639	25.927 21.434	y	n
	2	23:44	1.473 y	118.094	1109100 753073	78.905 65.926	y	n
	3	24:02	1.441 y	20.723	192915 133863	16.373 13.200	y	n
	4	24:22	1.298 n	12.975	124359 95813	8.167 8.025	y	n
	5	24:47	2.041 n	38.884	490675 240446	28.614 23.490	y	n
	6	25:12	1.746 y	19.066	191154 109493	16.148 12.091	y	n
1,2,3,7,8-PeCDF	7	25:20	1.442 y	34.309	324158 224766	30.106 21.089	y	n
	8	25:42	1.296 n	8.468	81161 62640	6.040 5.632	y	n
	9	25:58	1.219 n	20.538	196857 161479	13.005 12.289	y	n
2,3,4,7,8-PeCDF	10	26:55	1.302 n	16.744	158139 121435	11.806 11.887	y	n
	11	27:18	0.754 n	7.524	72113 95617	4.000 6.982	y	n
	12	27:55	0.586 n	1.708	16372 27952	2.641 2.638	n	n
	13	27:59	0.726 n	2.118	20299 27952	2.442 2.638	n	n

see 3A

DPE

LEDL
2

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total F2 PeCDF

F:2 Mass: 339.860 341.857 Mod? yes #Hom:14

Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12

Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount: 169.77 of which 25.53 named and 144.24 unnamed
 Conc: 339.53 of which 51.05 named and 288.48 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:30	1.57 y	28.34	273295 173639	25.9 21.4	y	n
	2	23:44	1.47 y	118.09	1109100 753073	78.9 65.9	y	n
	3	24:02	1.44 y	20.72	192915 133863	16.4 13.2	y	n
	4	24:22	1.30 n	12.97	124359 95813	8.2 8.0	y	n
	5	24:40	1.84 n	10.01	113827 61886	11.7 7.7	y	y
	6	24:47	1.55 y	38.91	373179 240446	28.5 23.5	y	y
	7	25:12	1.75 y	19.07	191154 109493	16.1 12.1	y	n
1,2,3,7,8-PeCDF	8	25:20	1.44 y	34.31	324158 224766	30.1 21.1	y	n
	9	25:42	1.30 n	8.47	81161 62640	6.0 5.6	y	n
	10	25:58	1.22 n	20.54	196856 161479	13.0 12.3	y	n
2,3,4,7,8-PeCDF	11	26:55	1.30 n	16.74	158139 121435	11.8 11.9	y	n
	12	27:18	0.75 n	7.52	72113 95617	4.0 7.0	y	n
	13	27:55	0.59 n	1.71	16372 27953	2.6 2.6	n	n
	14	27:59	0.73 n	2.12	20299 27953	2.4 2.6	n	n

Handwritten notes:
 SA
 27.25

Handwritten note:
 DPE

Handwritten note:
 LEDL

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:9
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 26.939 of which * named and 26.939 unnamed
 Conc: 53.878 of which * named and 53.878 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:19	0.155 n	0.237	2268 14630	4.187 3.679	y	n
	2	16:08	0.208 n	0.240	2299 11042	4.185 1.532	y	n
	3	17:35	0.069 n	0.035	333 4802	0.572 0.927	n	n
	4	18:04	0.376 n	0.231	2214 5881	2.949 1.216	n	n
	5	19:00	1.676 y	0.951	9388 5601	7.172 1.689	y	n
	6	20:07	0.753 n	0.615	5891 7827	9.226 1.373	y	n
	7	21:14	0.171 n	0.100	961 5627	1.300 1.411	n	n
	8	21:42	0.481 n	0.416	3989 8290	7.969 2.170	y	n
	9	21:55	1.503 y	51.054	483395 321648	441.690 44.221	y	n

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:10
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 15.858 of which 0.162 named and 15.697 unnamed
 Conc: 31.717 of which 0.324 named and 31.393 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:58	1.575 y	10.125	62157 39467	10.118 53.054	y	n
	2	25:20	1.808 n	8.459	60212	8.940	y	n

					33294	54.579	y	n
3	25:39	1.442	y	1.225	7260	1.146	n	n
					5036	11.361	y	n
4	25:60	1.582	y	6.826	41978	6.579	y	n
					26534	46.375	y	n
5	26:50	4.915	n	0.511	9880	1.942	n	n
					2010	6.028	y	n
6	27:02	1.418	y	1.081	6363	1.785	n	n
					4486	11.273	y	n
7	27:21	1.876	n	2.583	19078	3.312	y	n
					10168	18.194	y	n
8	27:30	2.703	n	0.427	4547	1.499	n	n
					1682	6.013	y	n
9	27:51	3.985	n	0.824	5076	1.791	n	n
					1274	4.136	y	n
10	29:21	8.935	n	0.156	5497	1.288	n	n
					615	2.230	n	n

1,2,3,7,8-PeCDD

25.41
NOISE

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 101.996 of which 46.533 named and 55.463 unnamed
 Conc: 203.993 of which 93.066 named and 110.926 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:04	0.979 n	29.092	205096 209563	46.885 75.558		y n y n
	2	31:16	1.222 y	46.496	325597 266548	73.693 93.754		y n y n
	3	31:29	0.809 n	3.181	22423 27710	6.969 12.091		y n y n
	4	31:39	1.214 y	8.416	58777 48407	15.509 16.857		y n y n
	5	31:51	1.168 y	6.766	46417 39757	11.925 17.456		y n y n
1,2,3,4,7,8-HxCDF	6	32:17	1.154 y	42.157	289911 251257	75.291 95.384		y n y n
1,2,3,6,7,8-HxCDF	7	32:24	1.340 y	27.614	213760 159472	54.731 60.108		y n y n
	8	32:31	1.022 n	8.208	57864 56634	14.741 22.653		y n y n
	9	32:41	0.855 n	8.380	59077 69070	11.952 25.105		y n y n
2,3,4,6,7,8-HxCDF	10	32:51	1.210 y	14.932	106345 87880	18.350 18.604		y n y n
1,2,3,7,8,9-HxCDF	11	33:36	0.970 n	8.364	53621 55275	10.341 12.980		y n y n
	12	34:21	0.822 n	0.388	2738 3331	1.723 2.211		n n n n

DPE

DPE

See
 P 6 A

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:8
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5

Amount: 8.161 of which 2.181 named and 5.981 unnamed

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:15

Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12

Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28oc104d7

Amount: 101.63 of which 37.10 named and 64.53 unnamed
 Conc: 203.25 of which 74.20 named and 129.05 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:04	0.98 n	29.09	205096 209563	46.9 75.6	y	n
	2	31:16	1.22 y	46.50	325597 266548	73.7 93.8	y	n
	3	31:29	0.81 n	3.18	22423 27710	7.0 12.1	y	n
	4	31:39	1.21 y	8.42	58778 48407	15.5 16.9	y	n
	5	31:51	1.17 y	8.77	46417 39757	11.9 17.5	y	n
	6	32:15	0.17 n	5.23	36880 214574	29.6 95.0	y	y
1,2,3,4,7,8-HxCDF	7	32:17	1.19 y	36.55	254635 214574	75.5 95.0	y	y
1,2,3,6,7,8-HxCDF	8	32:24	1.34 y	27.61	213760 159472	54.7 60.1	y	n
	9	32:31	1.02 n	8.21	57864 56634	14.7 22.7	y	n
	10	32:41	0.86 n	8.38	59077 68692	12.0 25.1	y	n
	11	32:51	1.36 y	8.08	59248 43669	18.4 18.6	y	y
2,3,4,6,7,8-HxCDF	12	32:55	1.07 y	6.99	46886 44018	14.4 18.2	y	y
1,2,3,7,8,9-HxCDF	13	33:33	0.98 n	3.05	19539 20034	7.1 11.7	y	y
	14	33:36	1.22 y	4.81	33666 27612	10.4 12.4	y	y
	15	34:21	0.82 n	0.39	2738 3331	1.7 2.2	n	n

DPE

DPE

GA

192.9

Conc: 16.323 of which 4.361 named and 11.962 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:46	2.226	1.081	12724 5715	5.275 5.007	y y	n n
	2	32:17	1.401	4.685	32382 23119	9.669 13.274	y y	n n
	3	32:22	2.107	1.676	18675 8863	6.385 6.061	y y	n n
	4	32:32	0.902	3.360	22034 24422	8.370 11.295	y y	n n
	5	32:41	2.648	0.444	6219 2348	2.477 1.639	n n	n n
	6	32:54	4.167	0.718	15814 3795	4.834 2.687	y n	n n
1,2,3,6,7,8-HxCDD	7	33:08	0.923	2.558	17307 18742	4.798 8.166	y y	n n
1,2,3,7,8,9-HxCDD	8	33:21	1.027	1.803	12397 12073	3.064 7.806	y y	n n

0.04

N/S/N
N/S/N

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 81.865 of which 54.901 named and 26.964 unnamed
 Conc: 163.730 of which 109.802 named and 53.928 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:53	1.027 y	80.491	512525	184.050	y	n
					498942	118.369	y	n
	2	35:05	1.139 y	22.457	136155	42.346	y	n
					119587	26.549	y	n
	3	35:12	1.173 y	30.010	184460	60.776	y	n
					157302	32.394	y	n
4	35:46	0.702 n	0.549	3186	1.637	n	n	
				4540	1.442	n	n	
1,2,3,4,7,8,9-HpCDF	5	36:02	0.972 y	29.312	147544	38.333	y	n
					151732	26.870	y	n
	6	36:17	0.600 n	0.912	5294	2.121	n	n
					8821	2.031	n	n

162.27

Run Text: L8VJE-1-AA

Sample text: L8VJE-1-AA :G0J210484-17 RI

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
 Run: 18 File: 28OC104D5 S:36 Acq:29-OCT-10 11:38:12
 Tables: Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D7

Amount: 8.245 of which 4.185 named and 4.060 unnamed
 Conc: 16.489 of which 8.370 named and 8.119 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDD	1	34:37	5.303 n	0.196	4979	2.548	n	n
					939	4.411	y	n
1,2,3,4,6,7,8-HpCDD	2	34:52	3.972 n	0.934	17819	6.084	y	n
					4486	11.078	y	n
1,2,3,4,6,7,8-HpCDD	3	35:08	0.801 n	5.720	28570	10.247	y	n
					35685	92.928	y	n
1,2,3,4,6,7,8-HpCDD	4	35:43	0.789 n	8.370	41803	11.301	y	n
					52977	140.471	y	n
1,2,3,4,6,7,8-HpCDD	5	35:58	1.883 n	1.269	11477	2.807	n	n

14.09

6095 15.311 y n

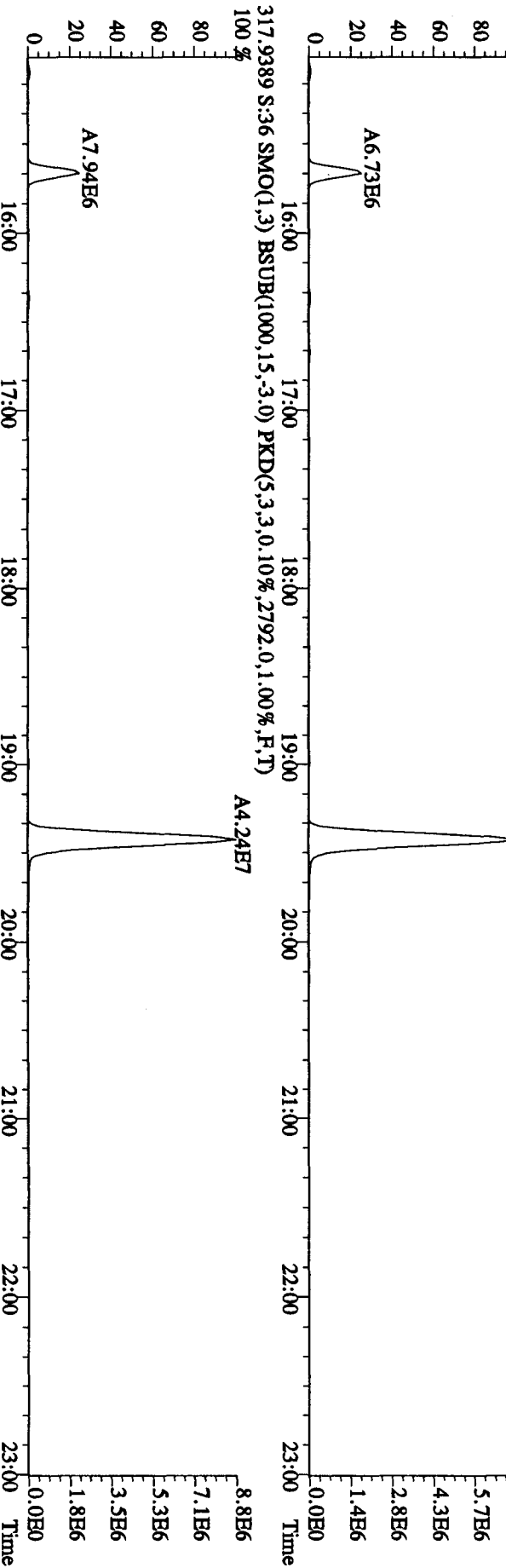
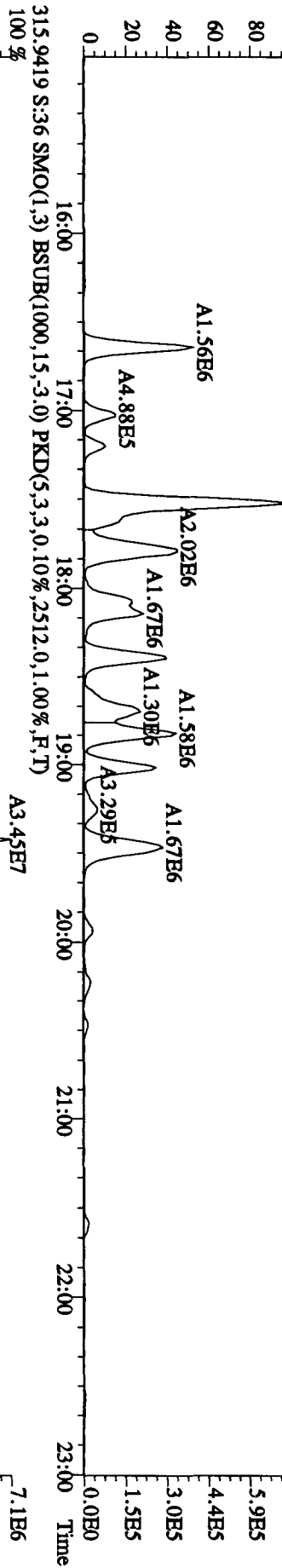
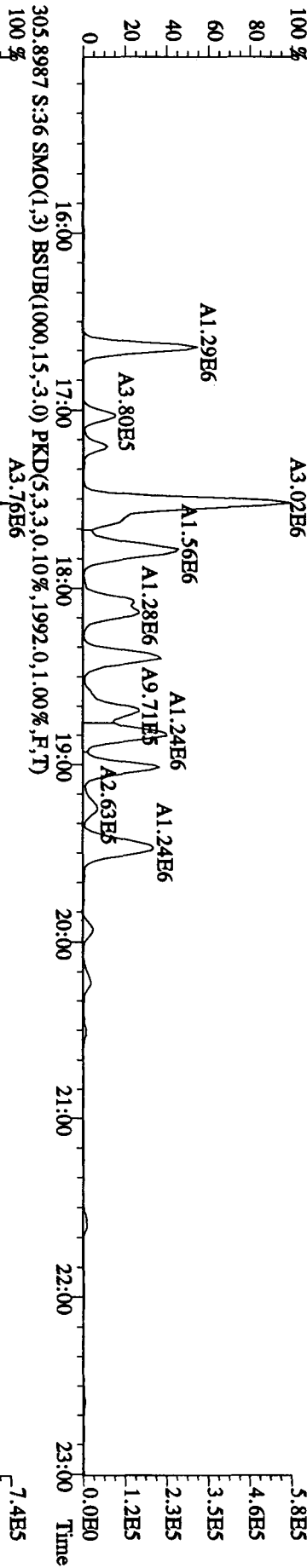
File:28OC104D5 #1-530 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate

Exp:DIOXINRES

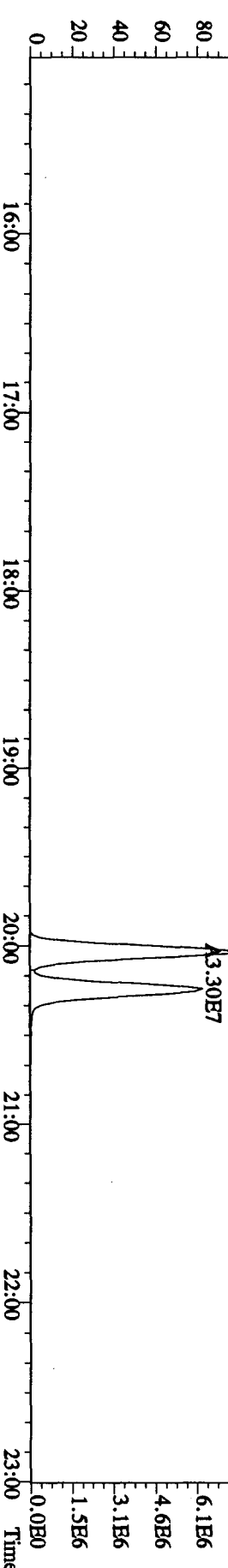
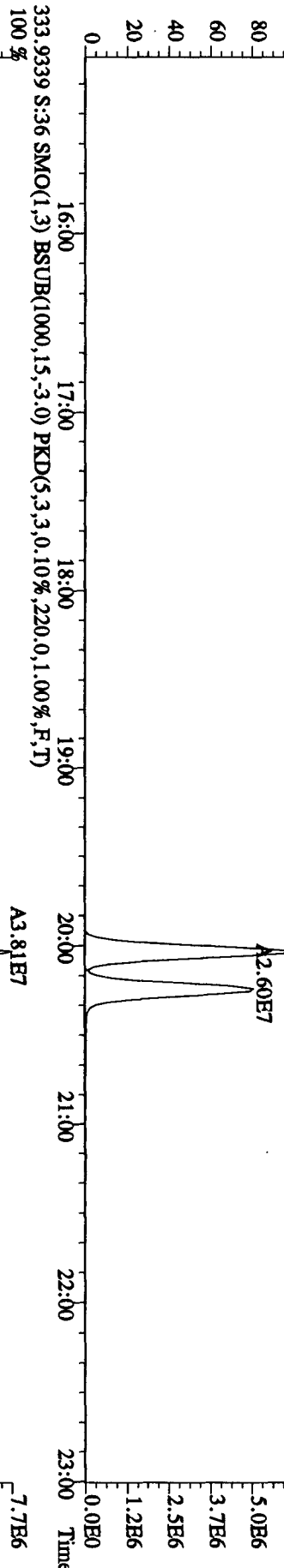
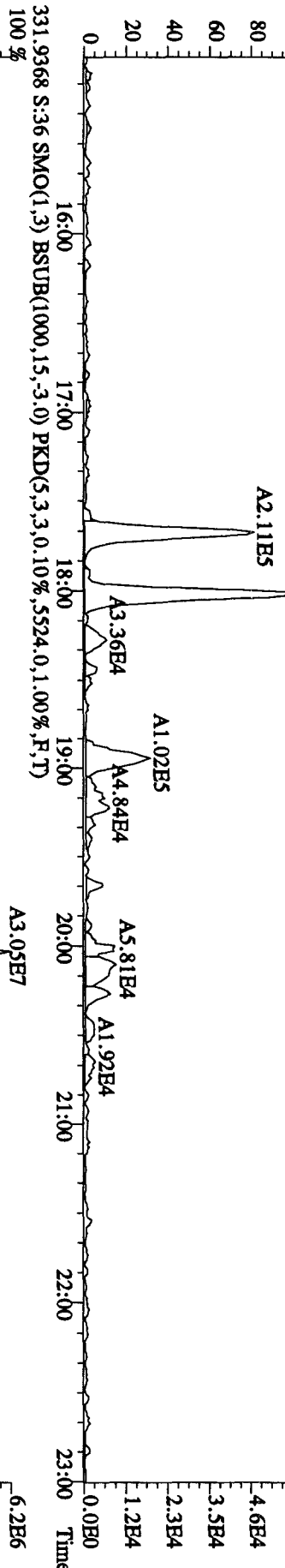
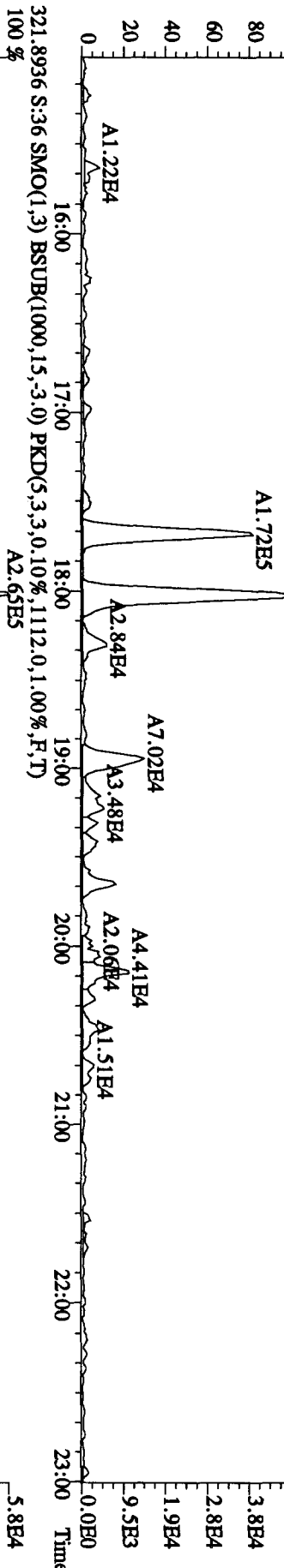
Sample#36 Text:L8VJE-1-AA :G0J210484-17 RI

303.9016 S:3.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)

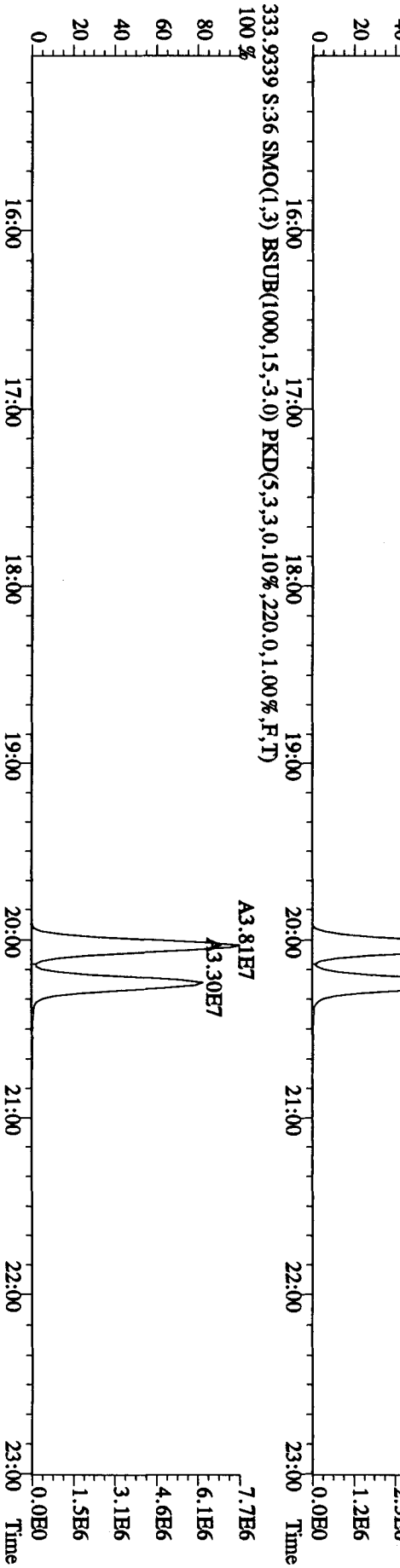
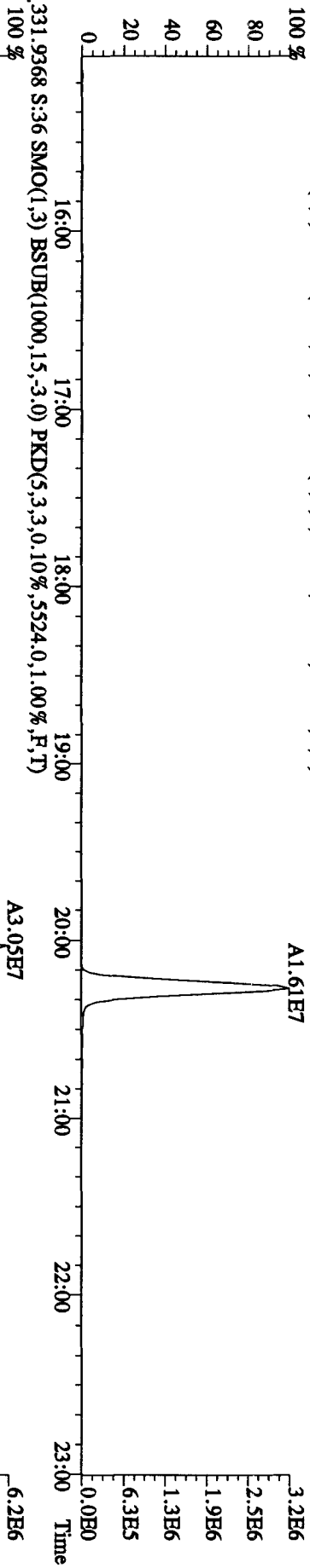
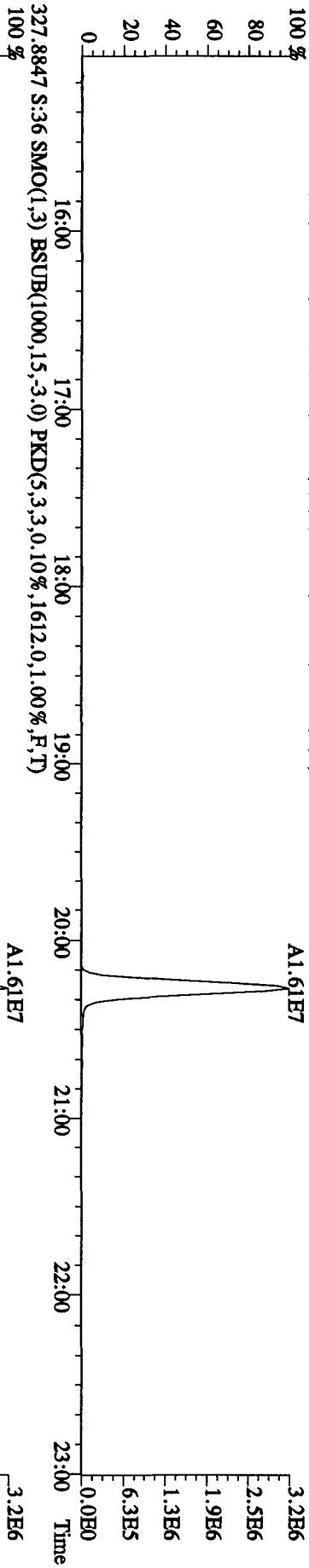
A3.02E6



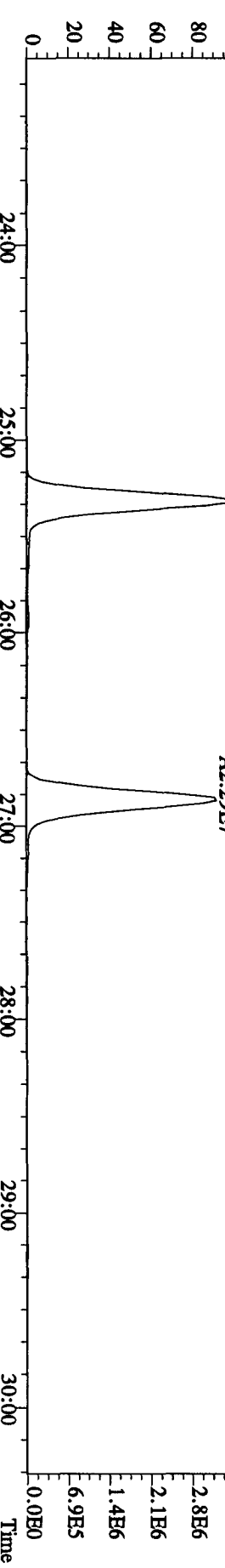
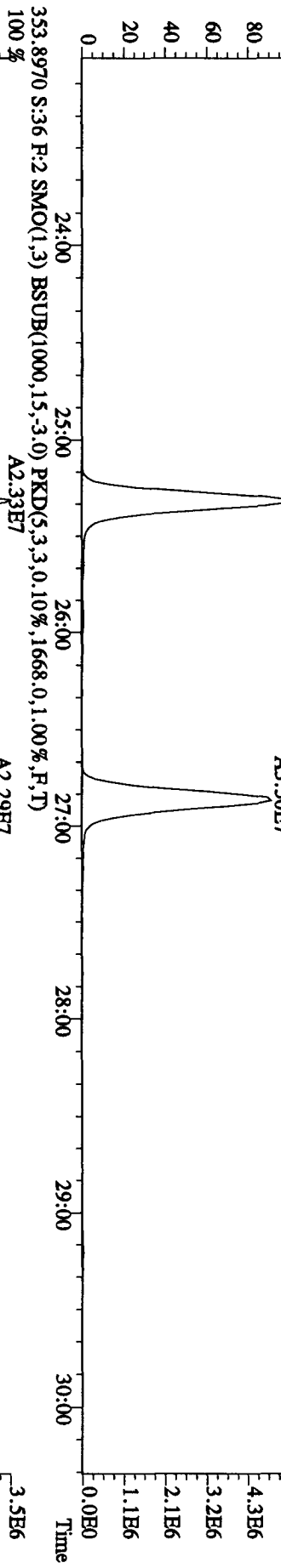
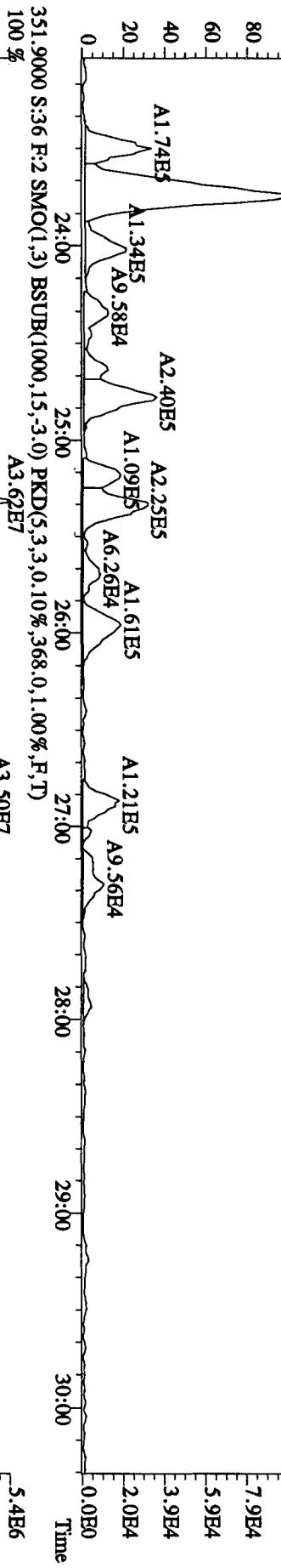
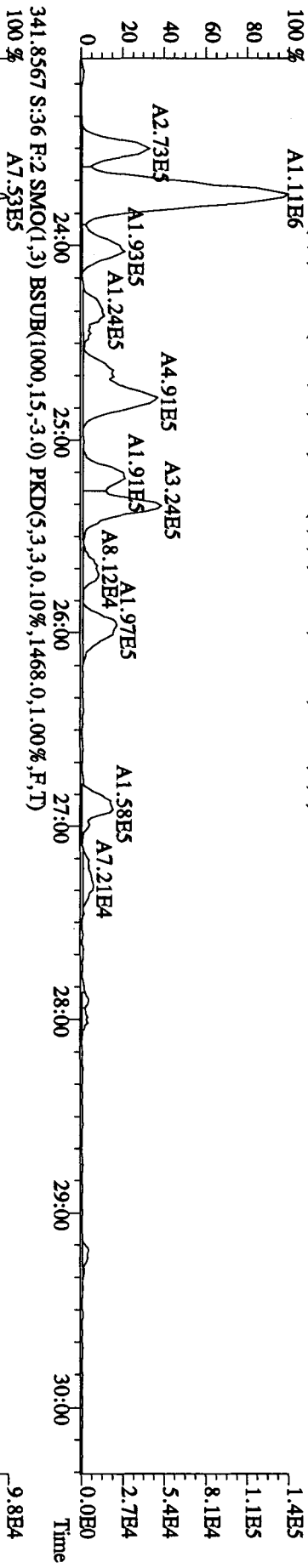
File: 280C104D5 #1-530 Acq: 29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#36 Text: L8VJE-1-AA : G0J210484-17 RI Exp: DIOXINRES
 319.8965 S: 3.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800,0,1.00%,F,T)
 100%



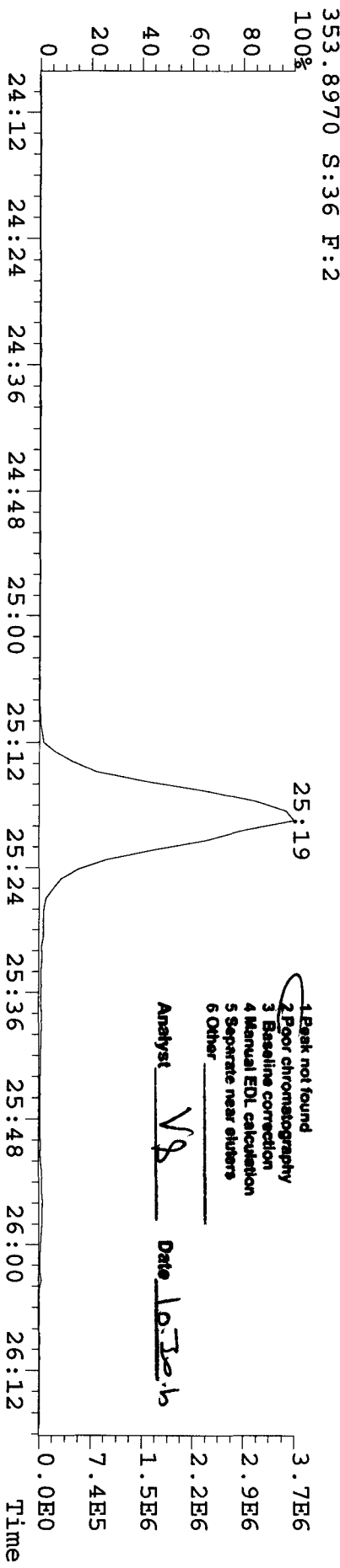
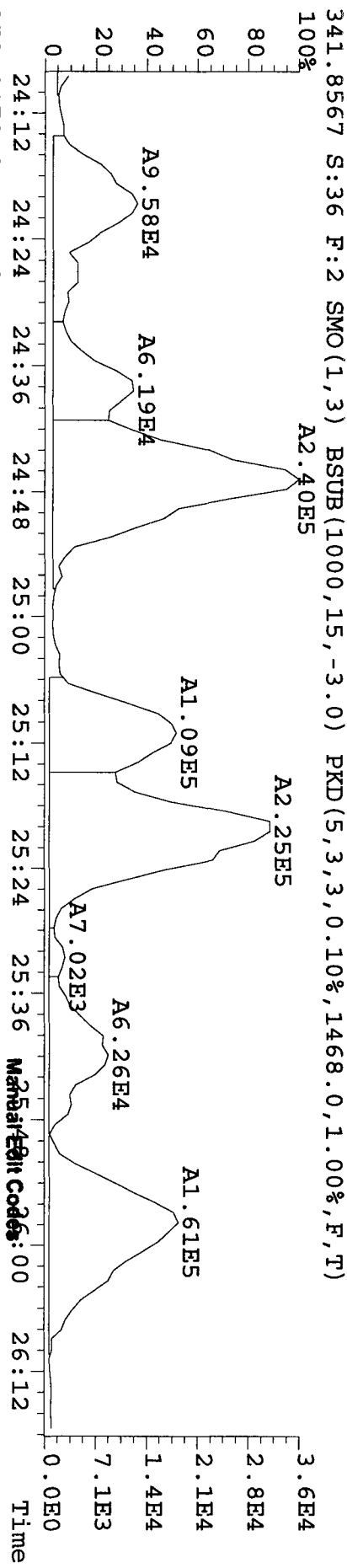
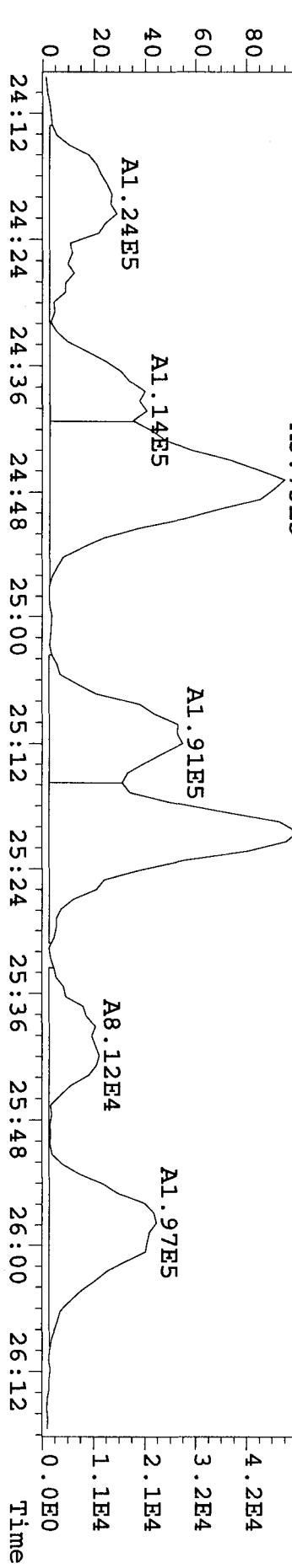
File:28OC104D5 #1-530 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
Sample#36 Text:L8VJE-1-AA :G0J210484-17 RI Exp:DIOXINRES
327.8847 S:3.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1612.0,1.00%,F,T)
100 %



File:28OC104D5 #1-470 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text:L8V1E-1-AA :G0J210484-17 RI Exp:DIOXINRES
 339.8597 S:3.6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1708,0,1,1.00%,F,T)



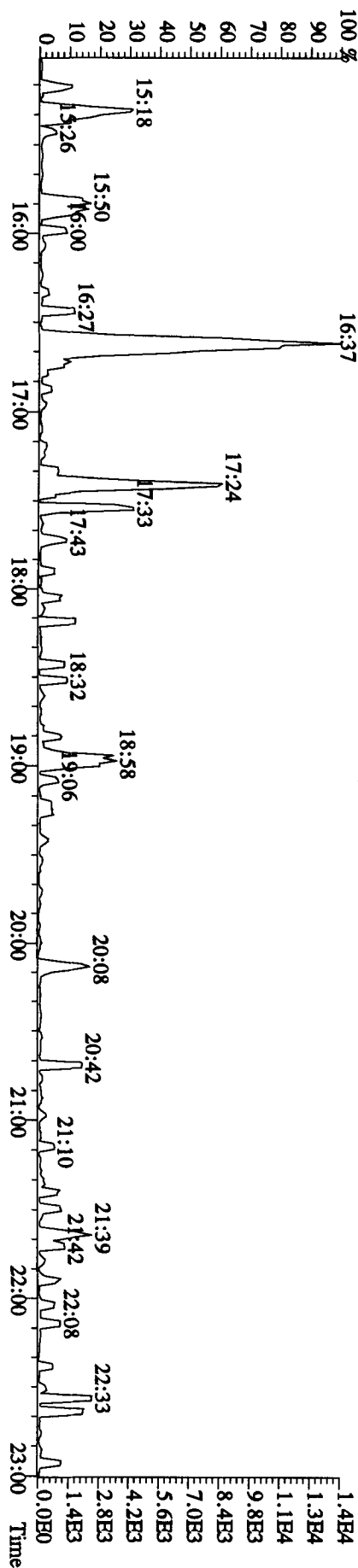
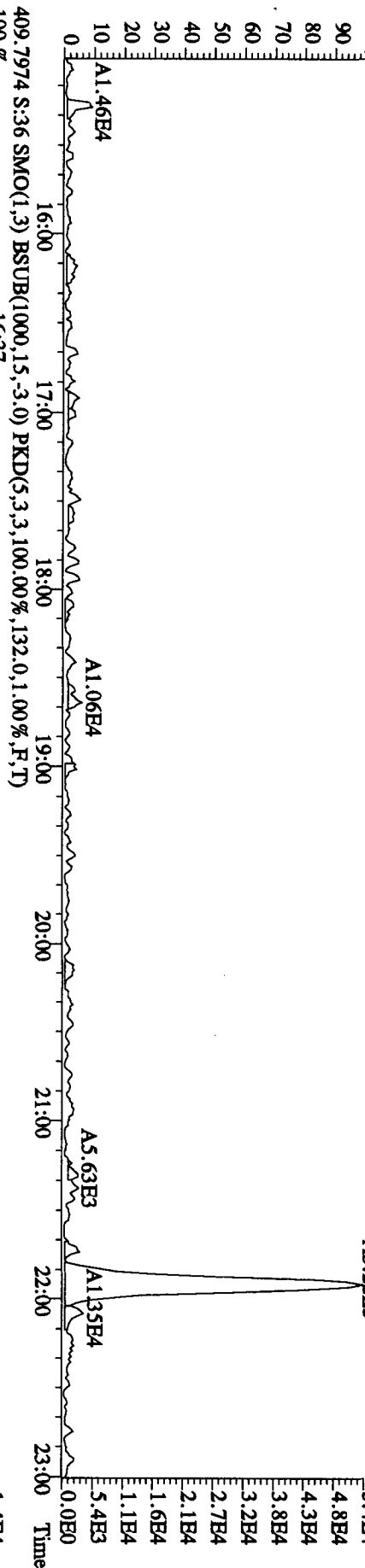
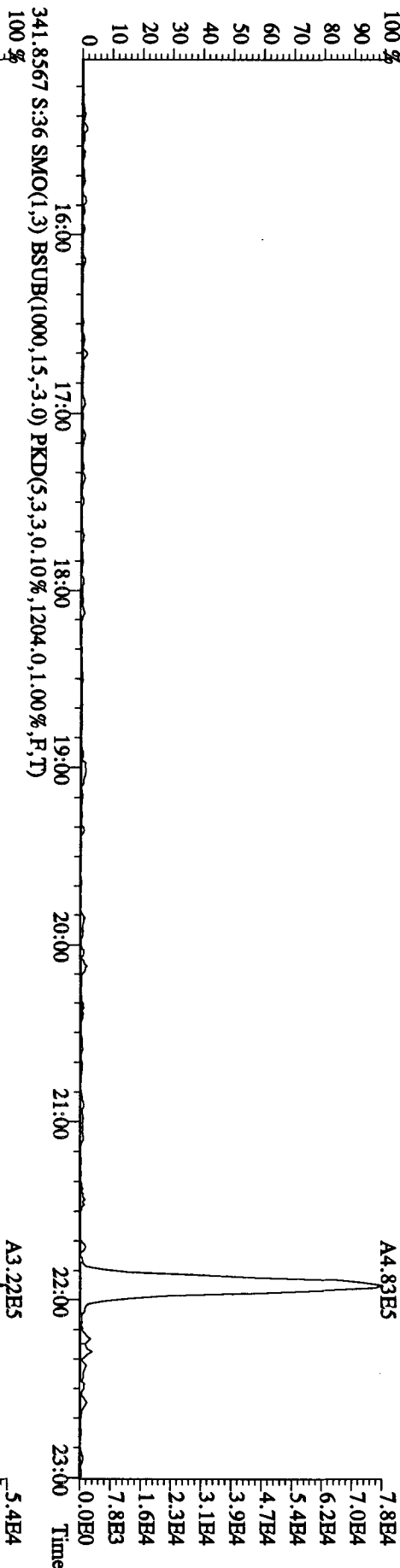
File: 280C104D5 #1-470 Acq: 29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text: L8VJE-1-AA : G0J210484-17 Exp: DIOXINRES
 339.8597 S:36 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1708.0,1.00%,F,T)
 100%



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

Analyst: VJ Date: 10-3-10

File:280C104D5 #1-530 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text:L8VIE-1-AA :G0J210484-17 RI Exp:DIOXINRES
 339.8597 S:36 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T)

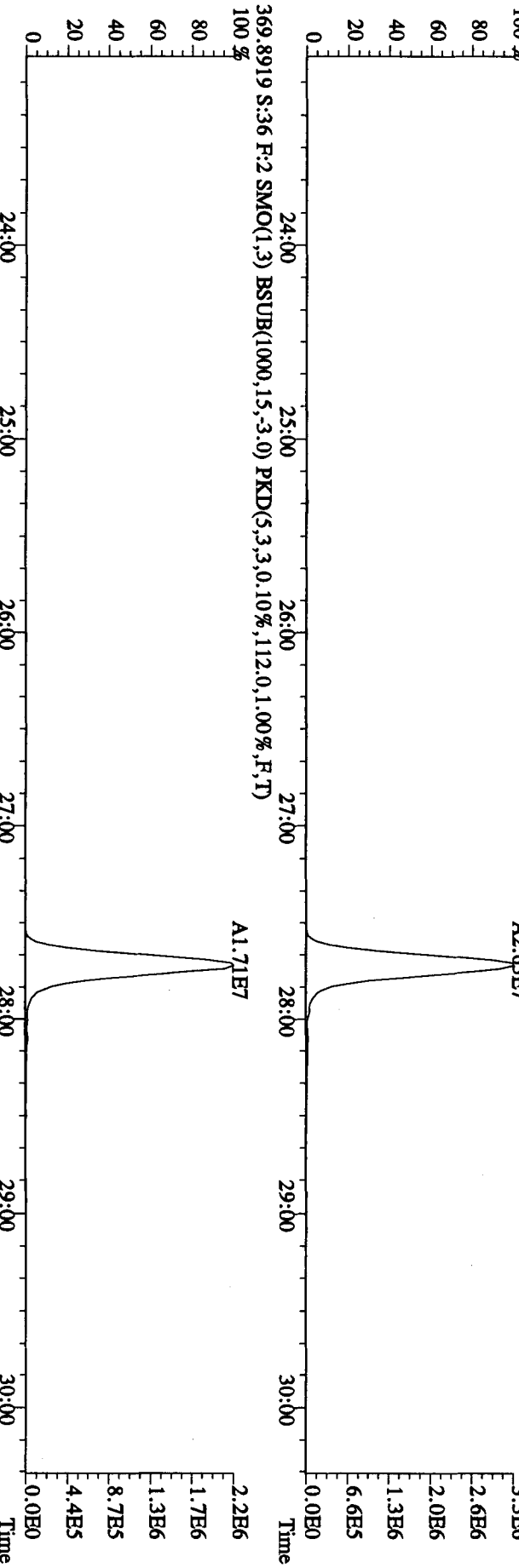
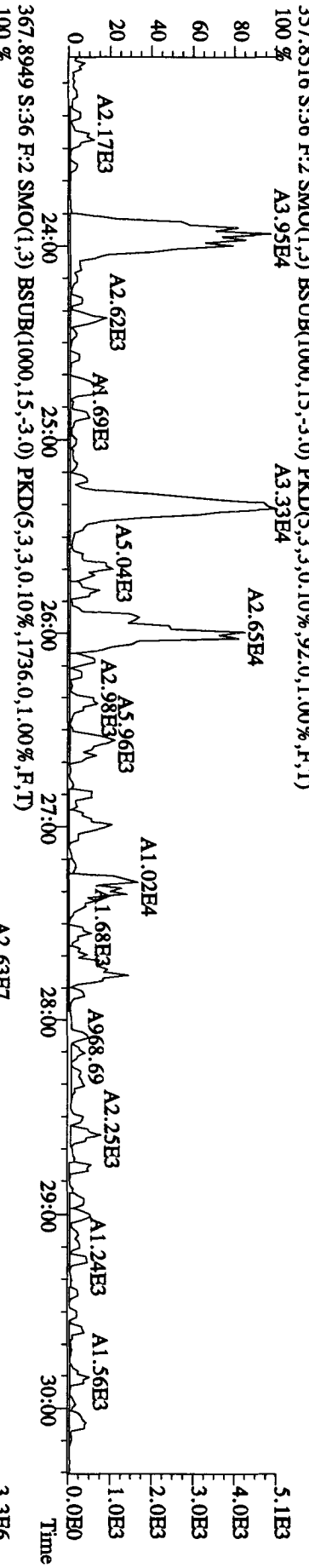
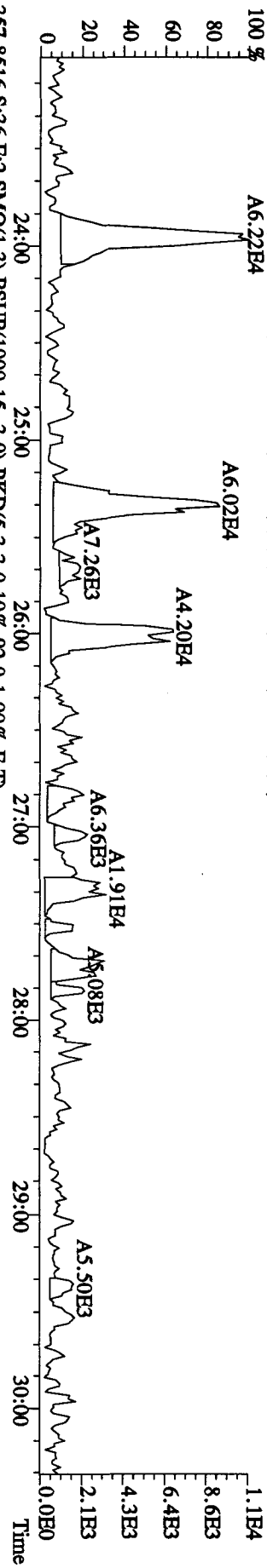


File:28OC104D5 #1-470 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate

Exp:DIOXINRES

Sample#36 Text:L8VJE-1-AA :G0J210484-17 RI

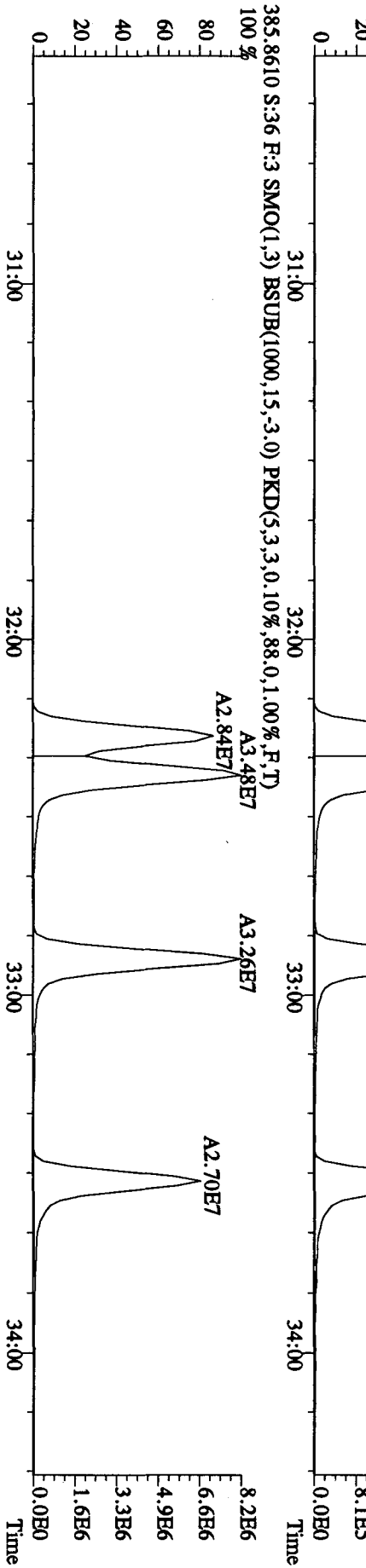
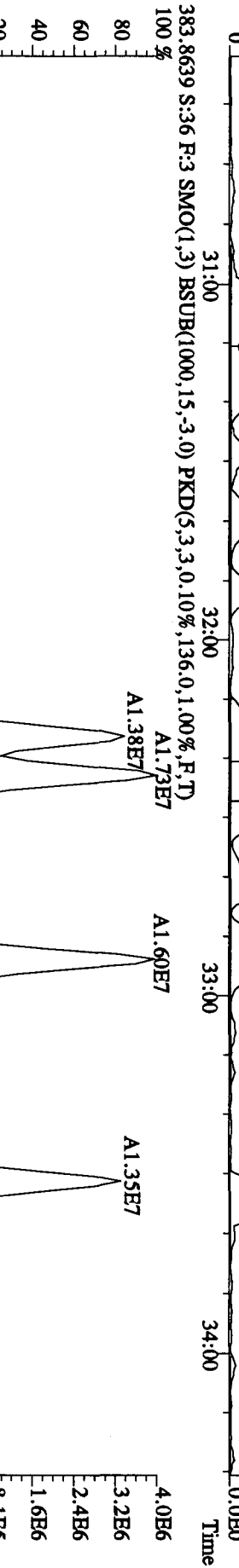
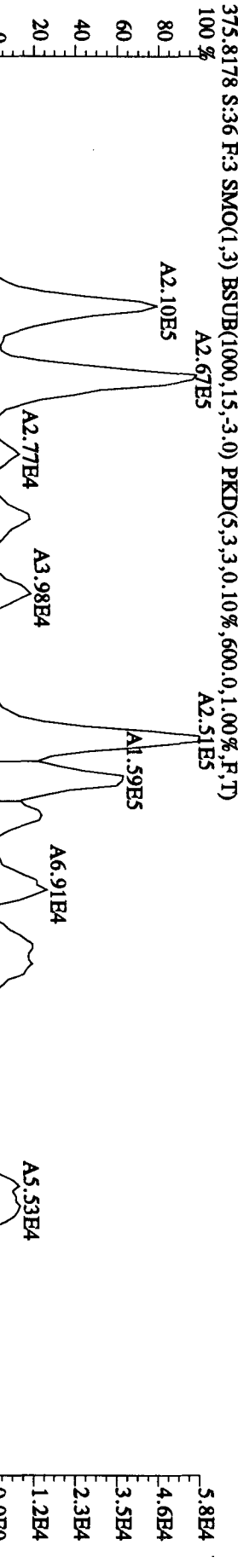
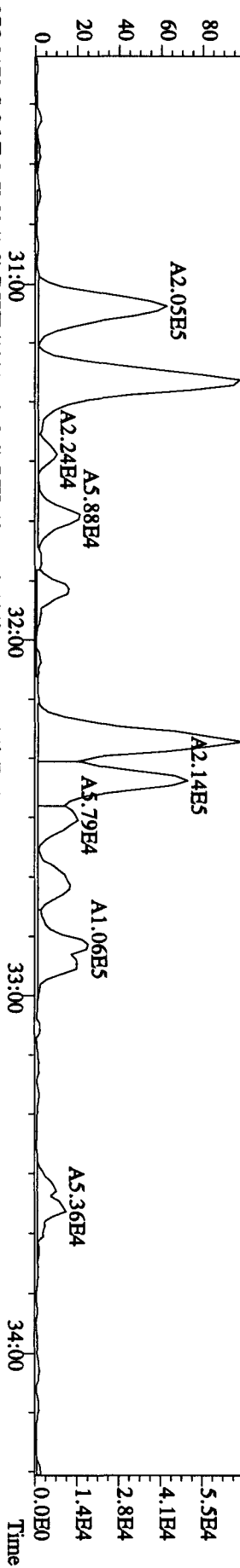
357.8516 S:3.6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,92.0,1.00%,F,T)



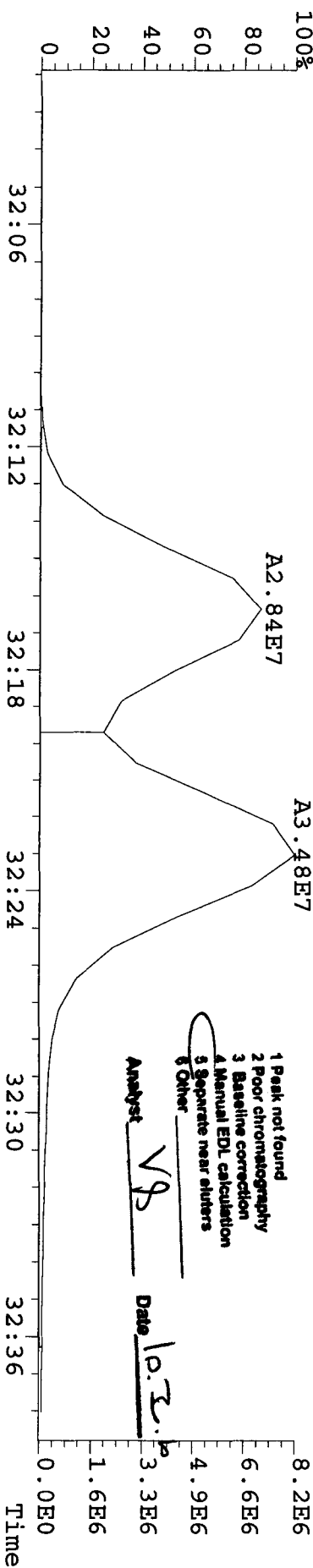
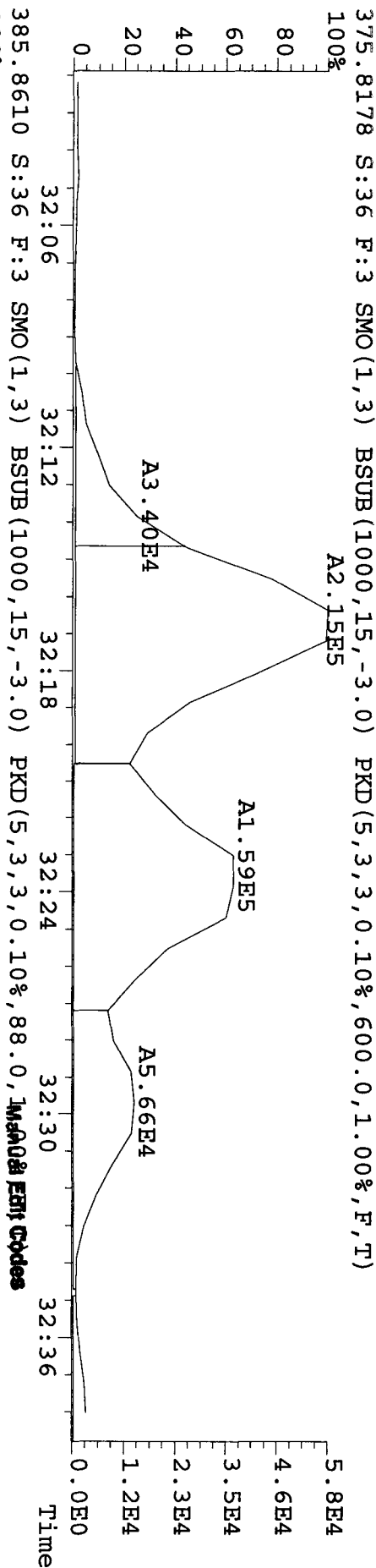
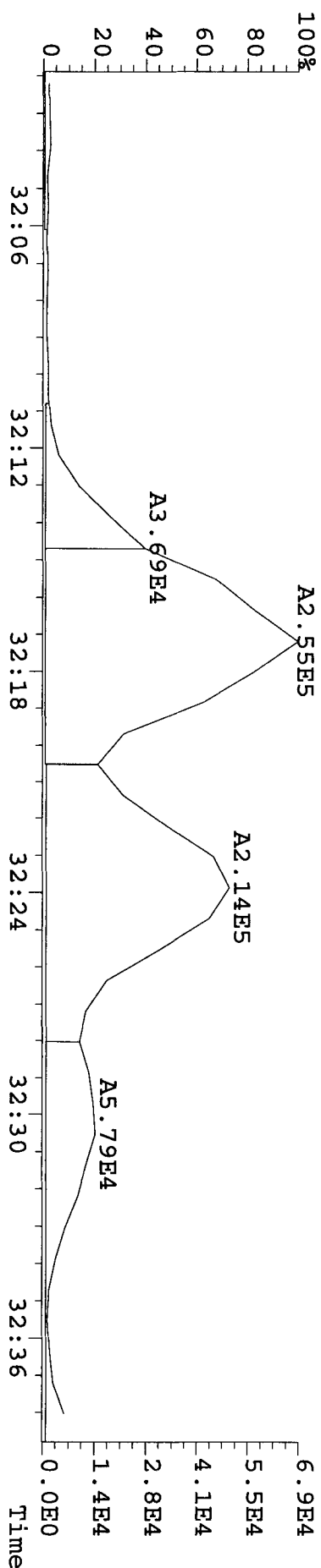
File:280C104D5 #1-287 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate

Sample#36 Text:18VIE-1-AA :G0J210484-17 RI Exp:DIOXINRES

373.8208 S:3.6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,904.0,1.00%,F,T)
100% A3.26E5 A2.90E5



File: 280C104D5 #1-287 Acq: 29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text: L8VJE-1-AA : G0J210484-17 Exp: DIOXINRES
 373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)

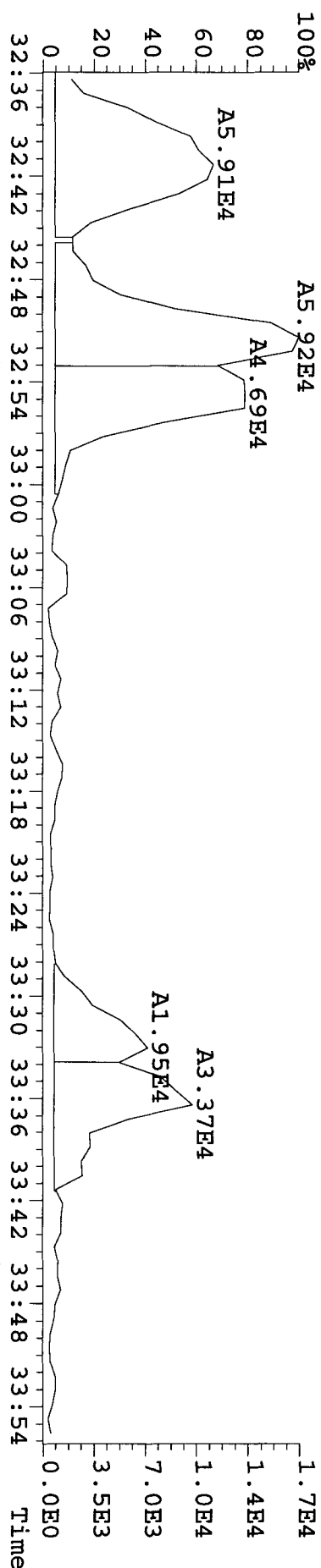


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

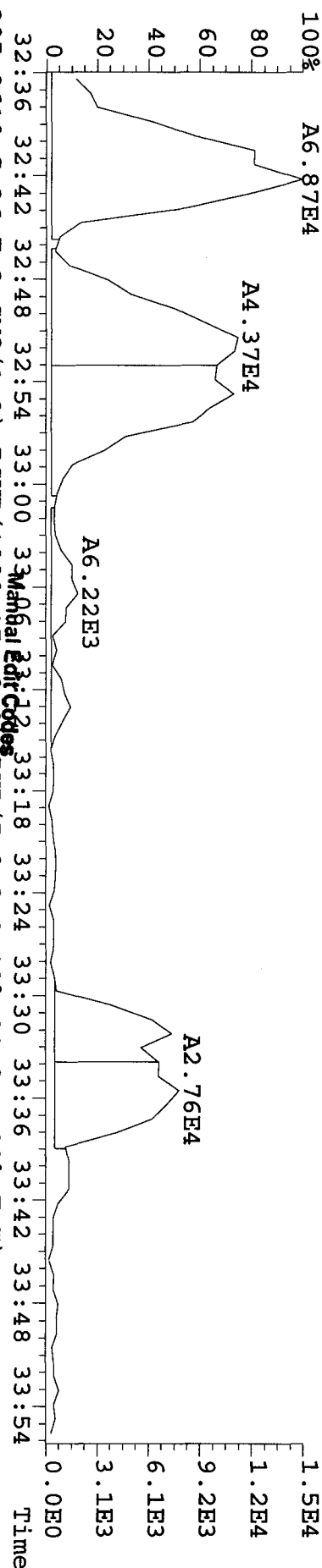
Analyst VB

Date 10.3.10

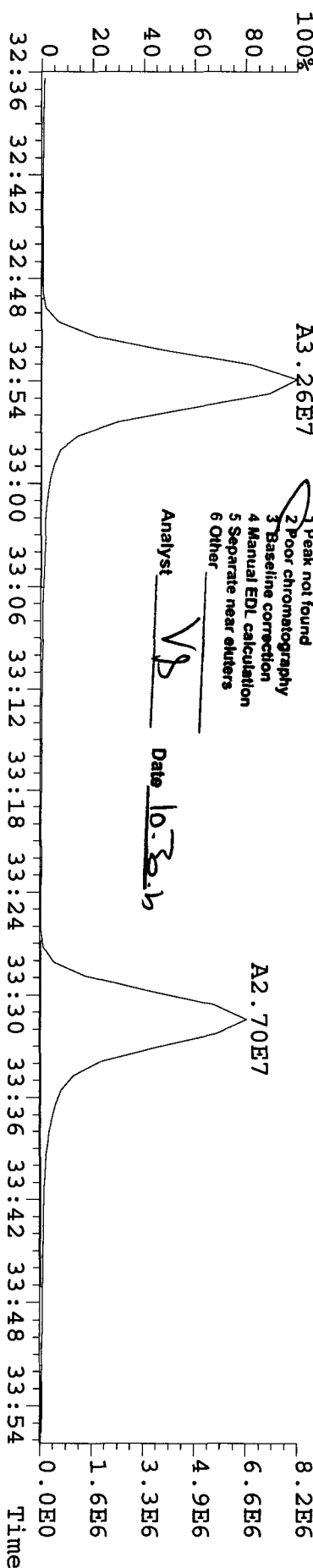
373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T) 100%



375.8178 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T) 100%



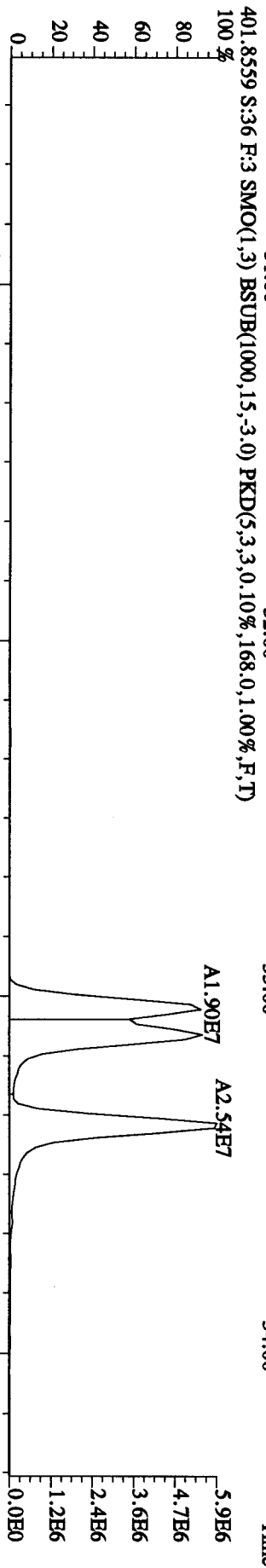
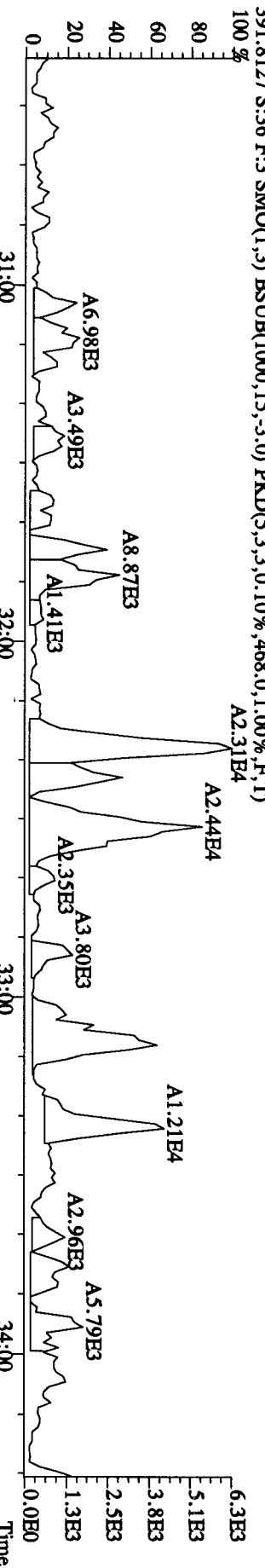
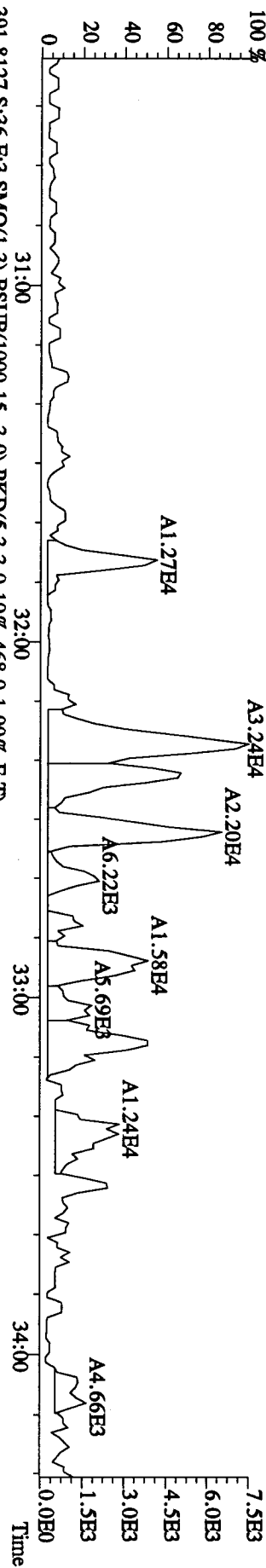
385.8610 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88.0,1.00%,F,T) 100%



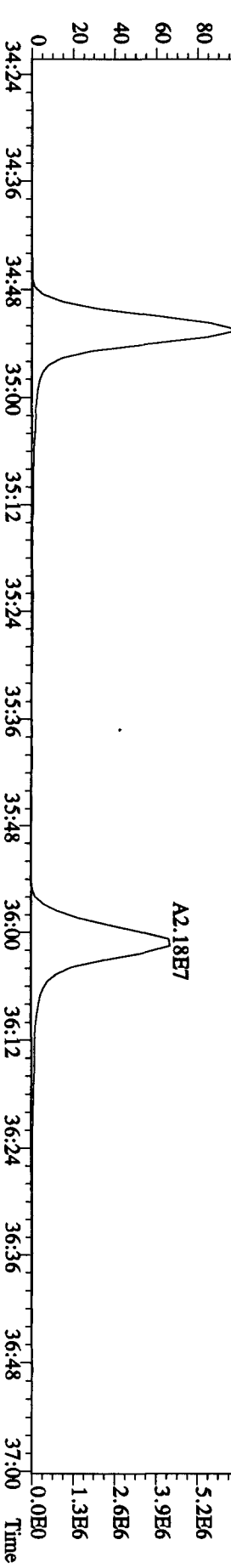
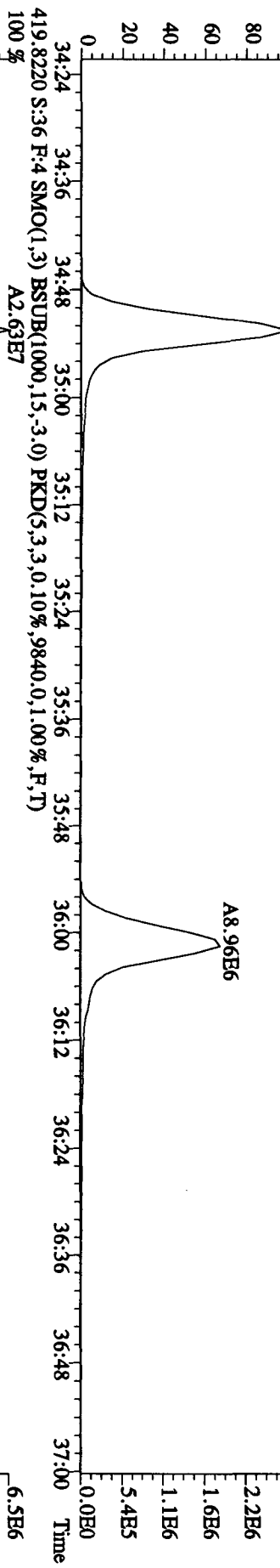
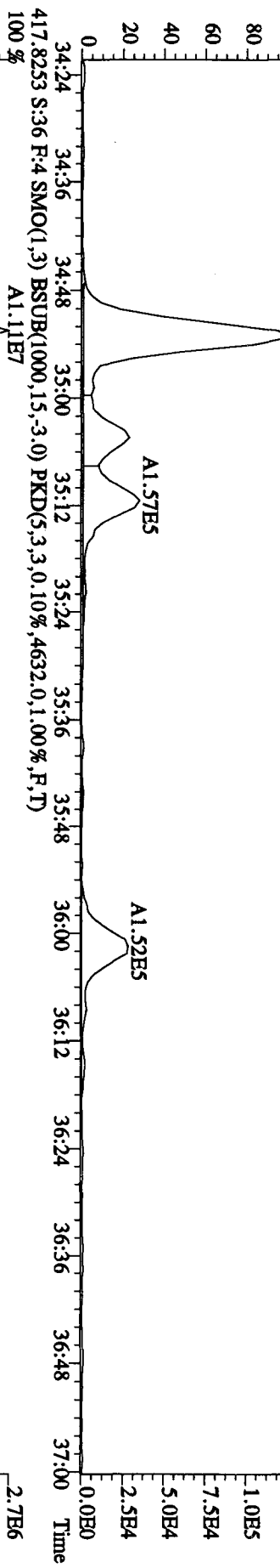
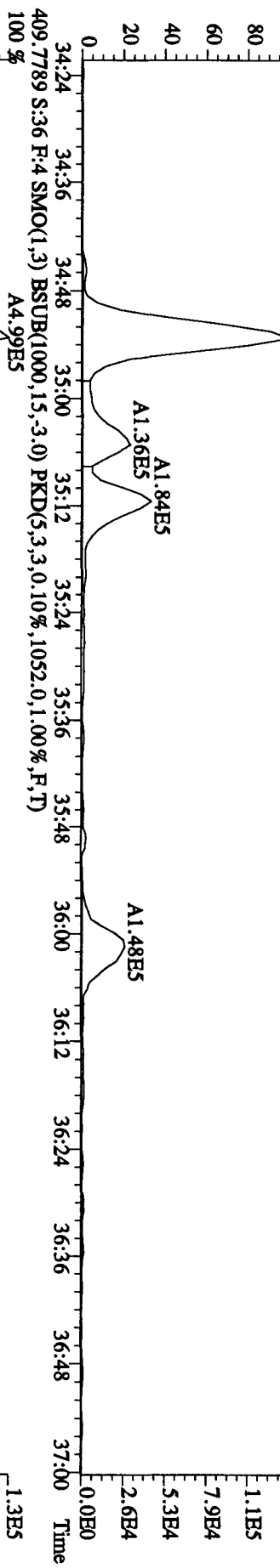
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VB Date 10-30-10

File:280C104D5 #1-287 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#36 Text:L8VJE-1-AA :G0J210484-17 RI Exp:DIOXINRES
 389.8157 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)

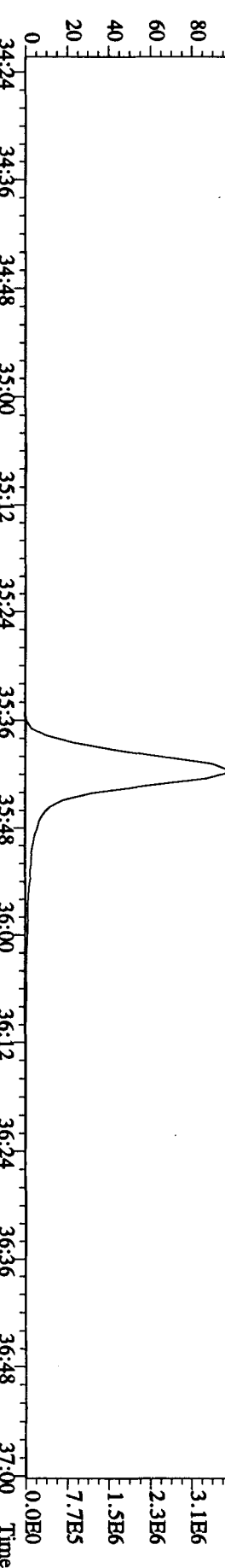
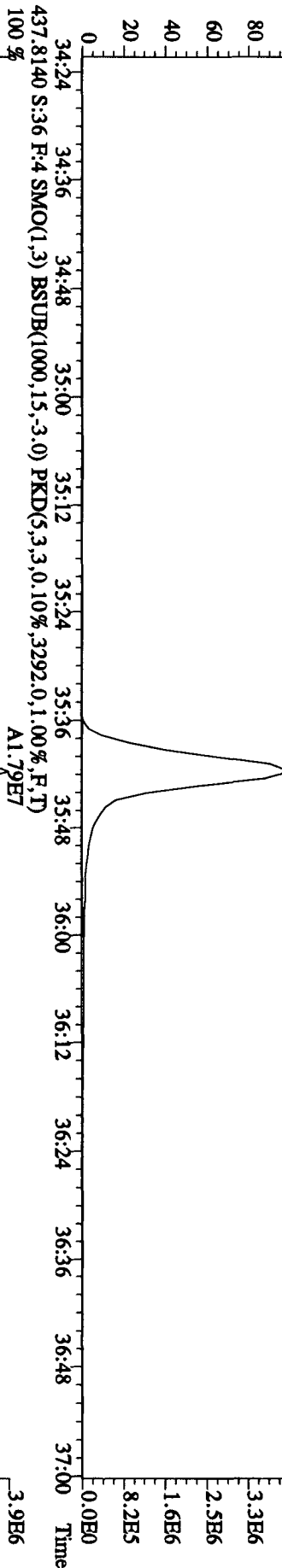
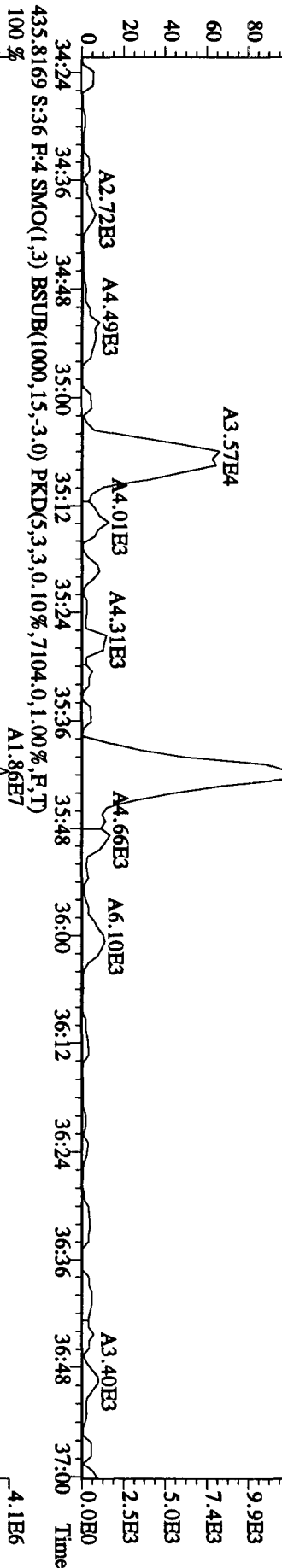
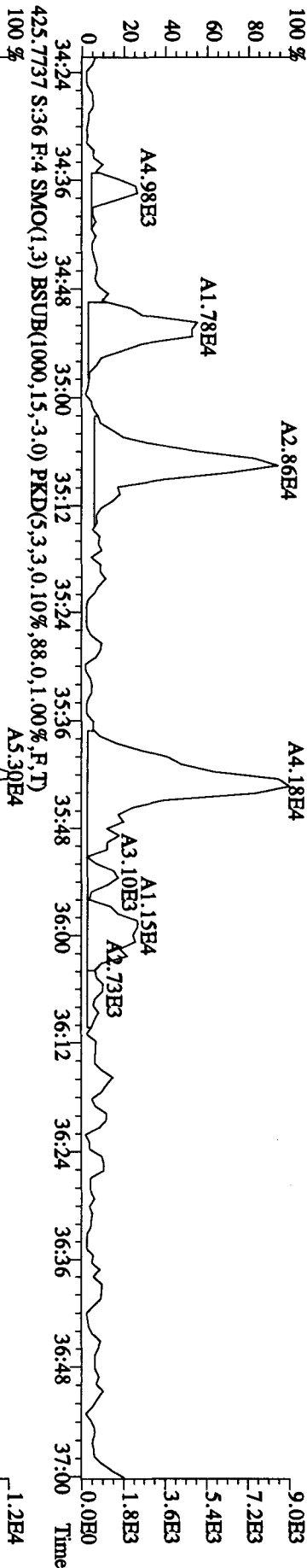


File:28OC104D5 #1-200 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#36 Text:L8V1E-1-AA :G0J210484-17 RI Exp:DIOXINRES
 407.7818 S:3.6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,712.0,1.00%,F,T)
 100 % A5.13E5

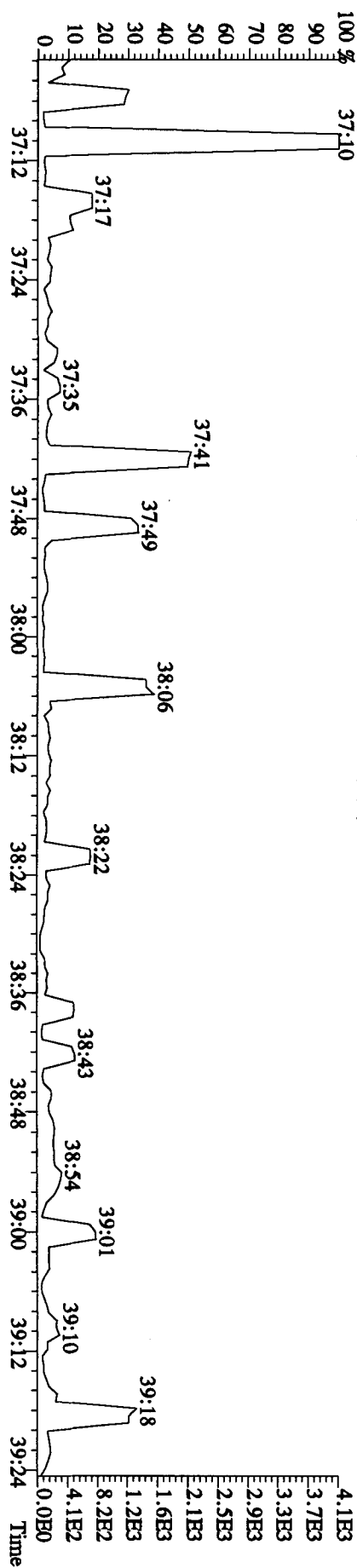
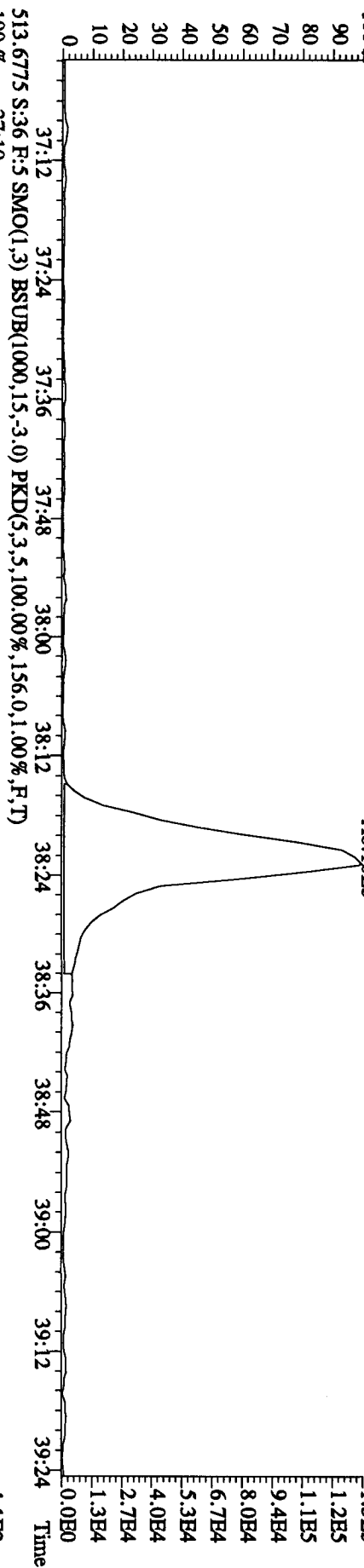
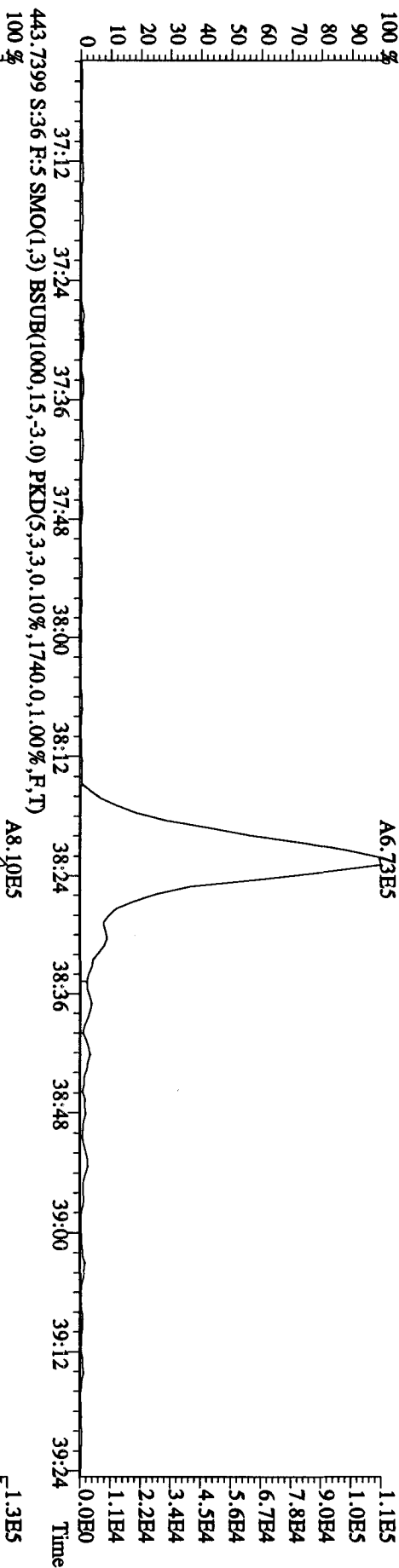


Sample#36 Text:L8VIE-1-AA :G0J210484-17 RI

423.7766 S:3.6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



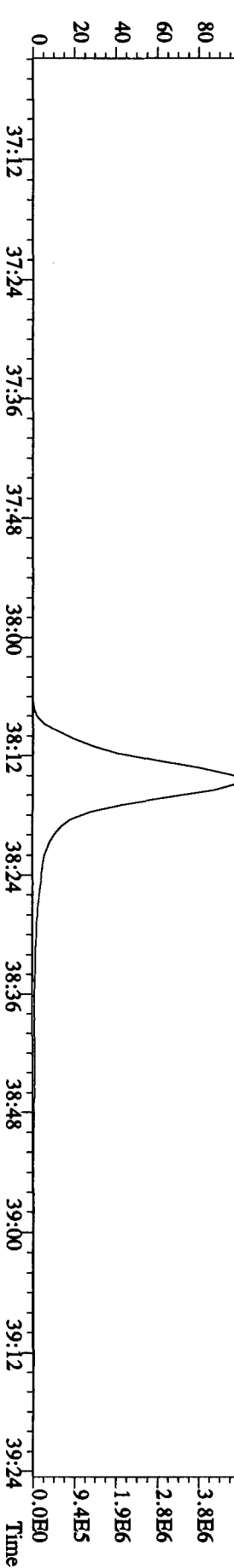
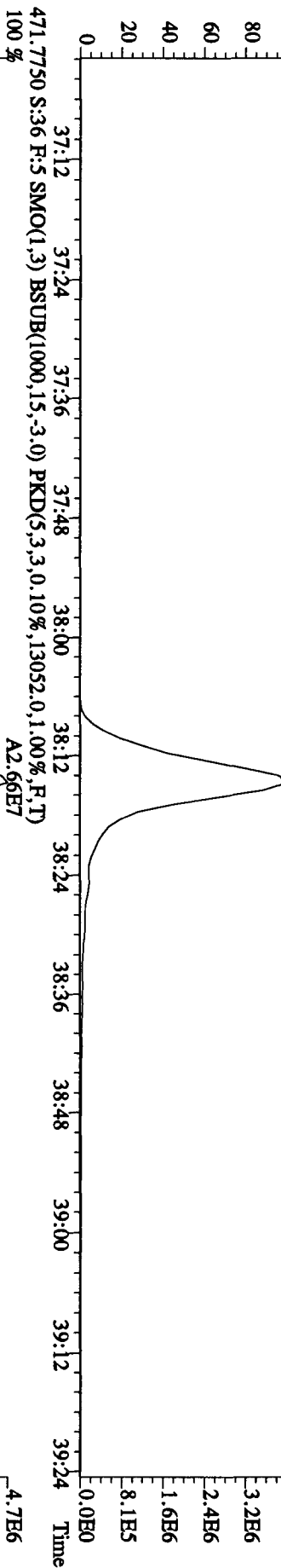
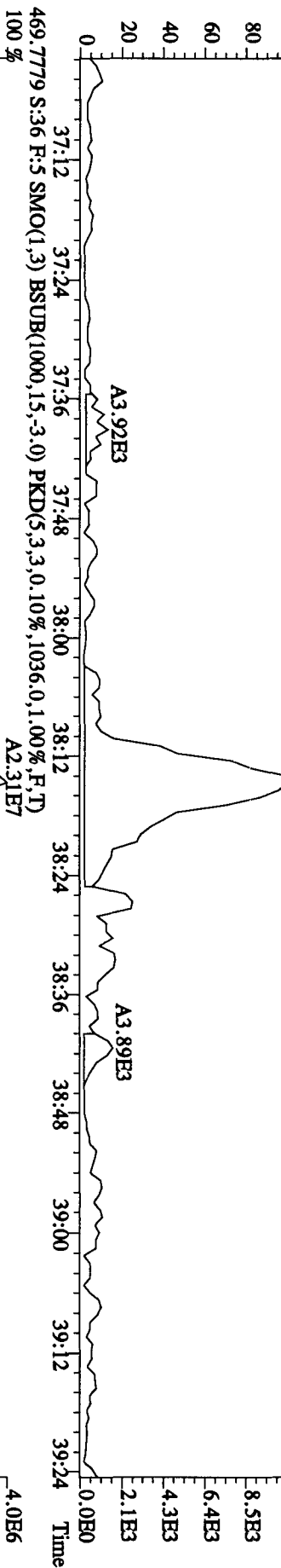
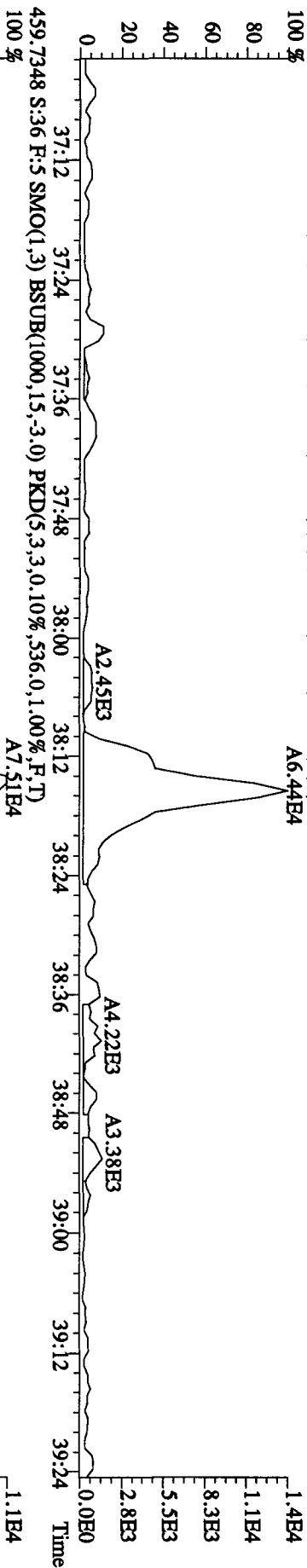
File:280C104D5 #1-193 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
Sample#36 Text:18V1E-1-AA :G0J210484-17 RI Exp:DIOXINRES
441.7428 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)

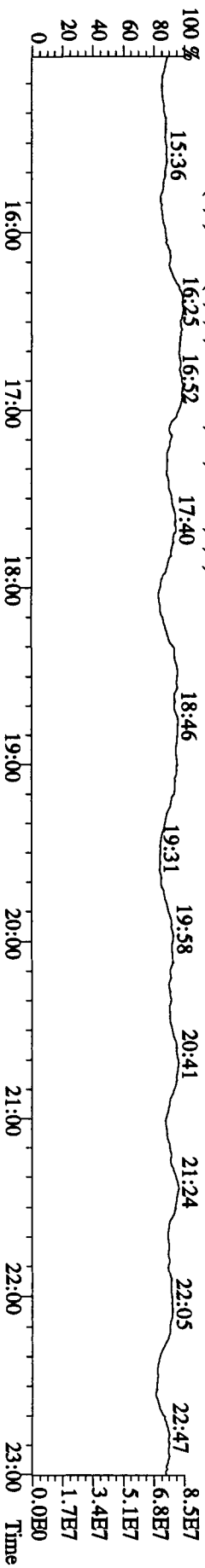
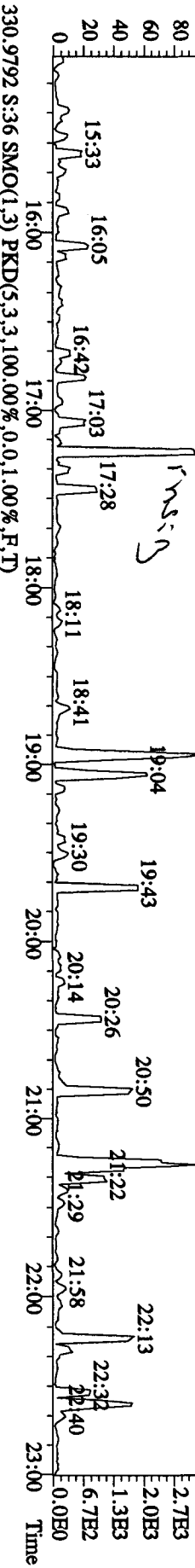
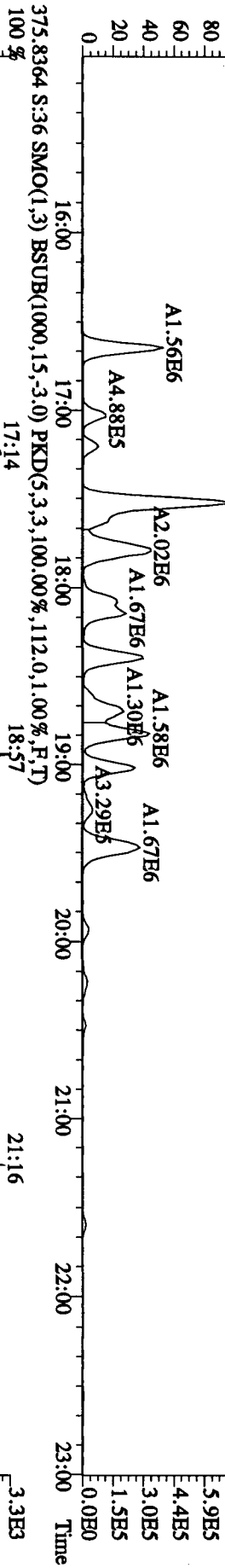
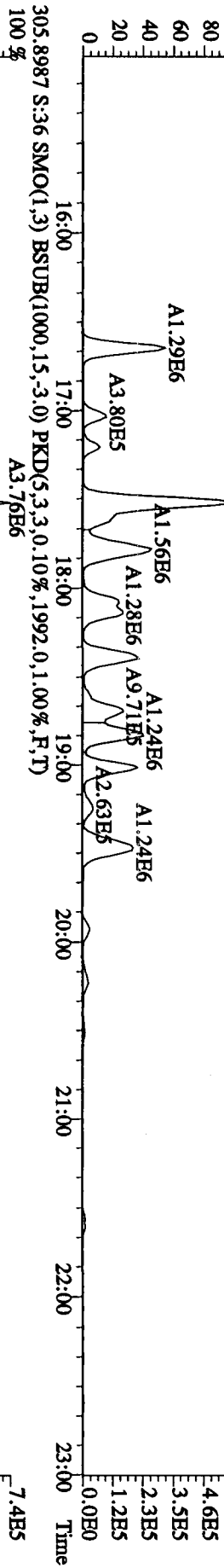
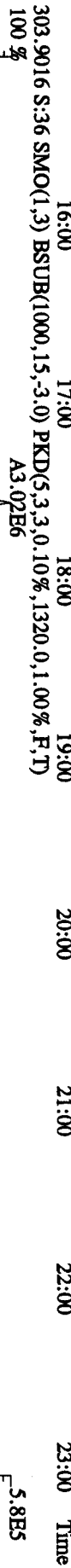
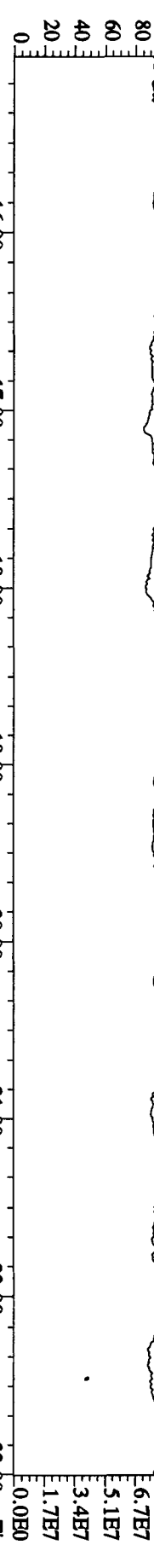


File:280C104D5 #1-193 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate

Sample#36 Text:L8VIE-1-AA :G0J210484-17 RI Exp:DIOXINRES

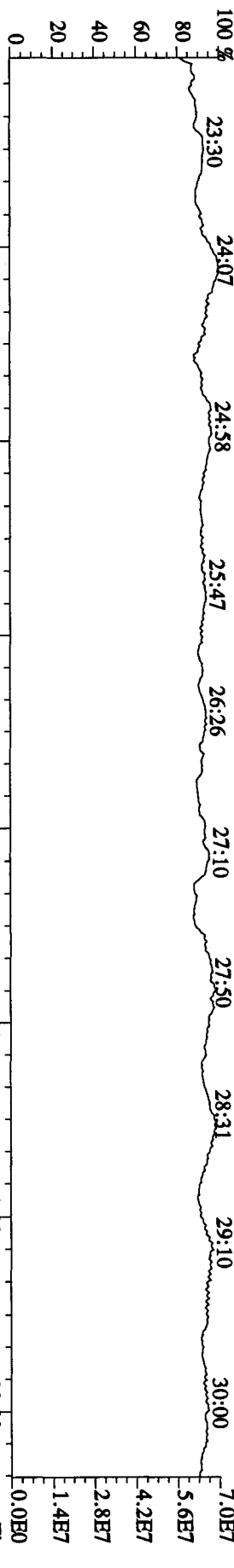
457.7377 S:3.6 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,536.0,1.00%,F,T) A6.44E4



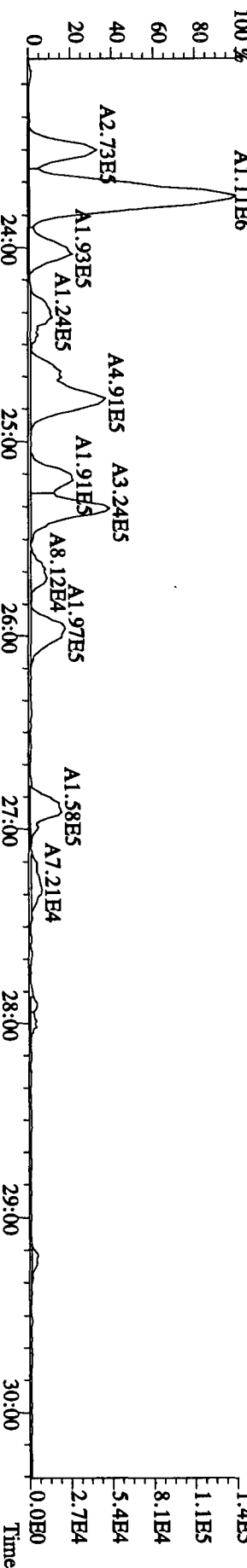


Sample#36 Text:187VE-1-AA :G0J210484-17 RI

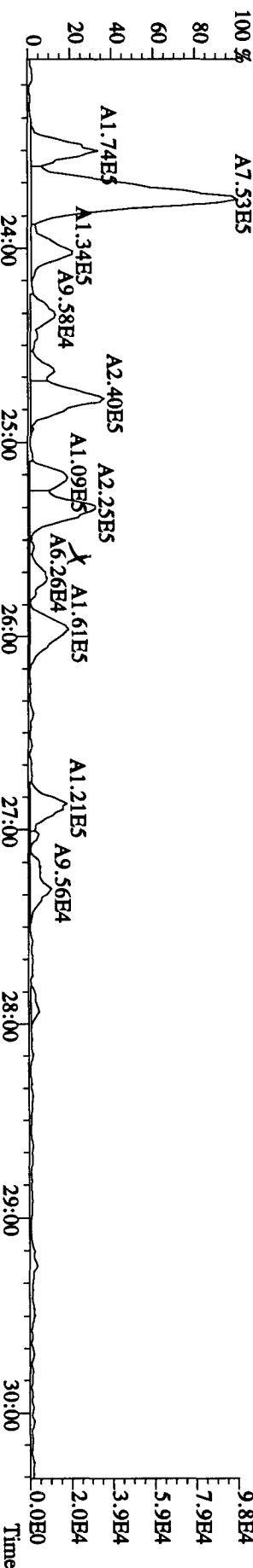
342.9792 S:3.6 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



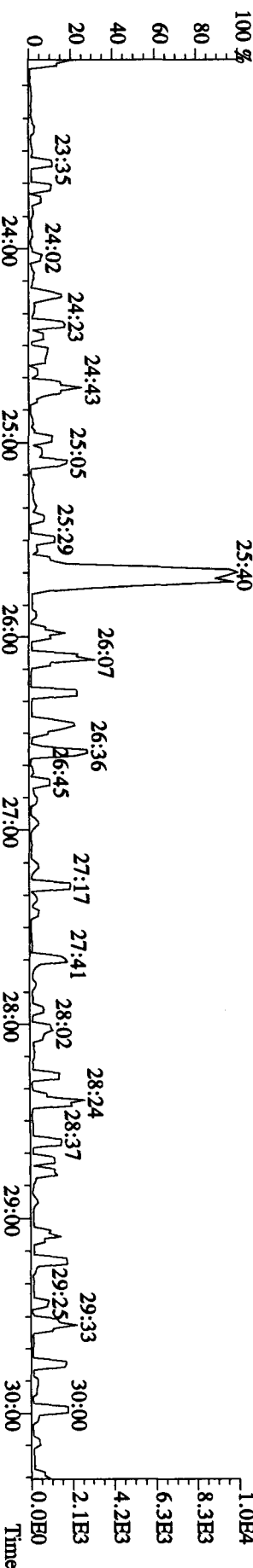
339.8597 S:3.6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1708.0,1.00%,F,T)



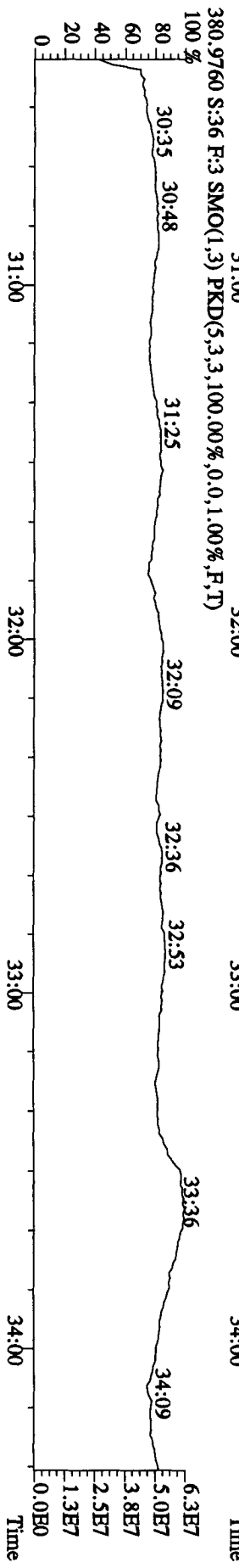
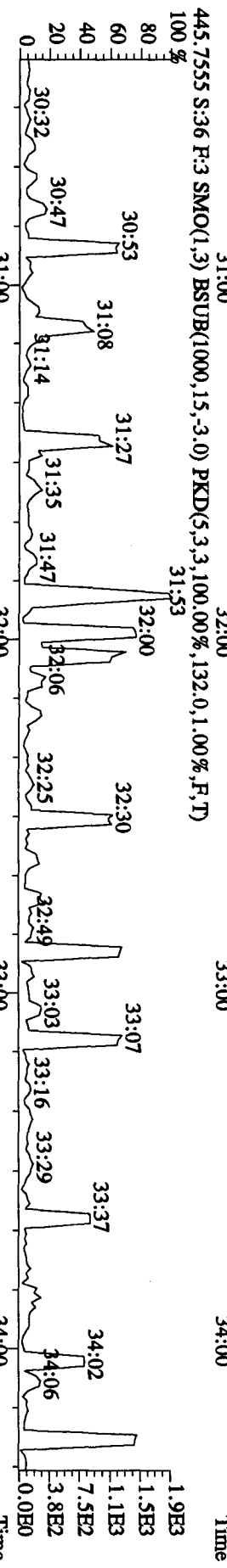
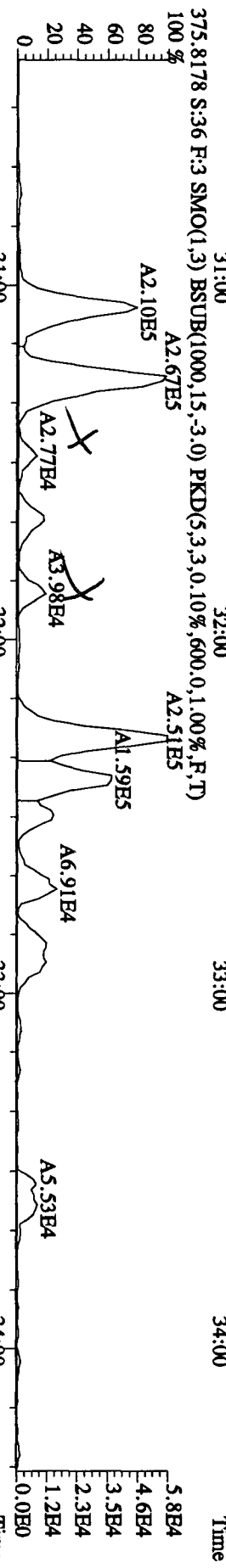
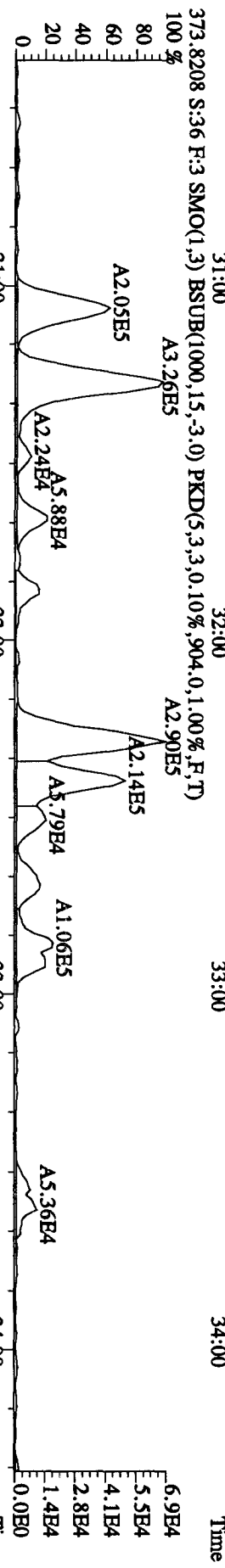
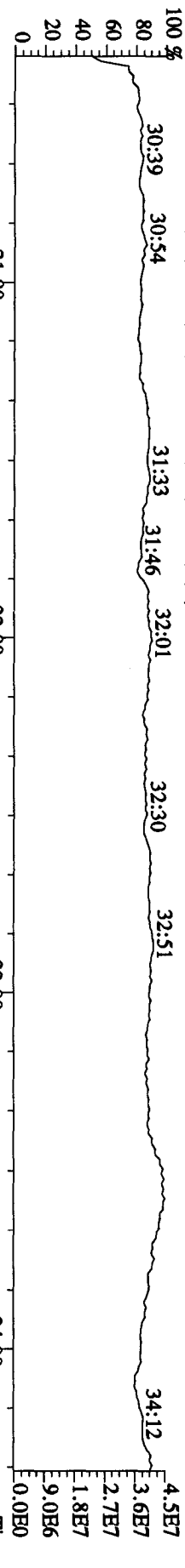
341.8567 S:3.6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1468.0,1.00%,F,T)



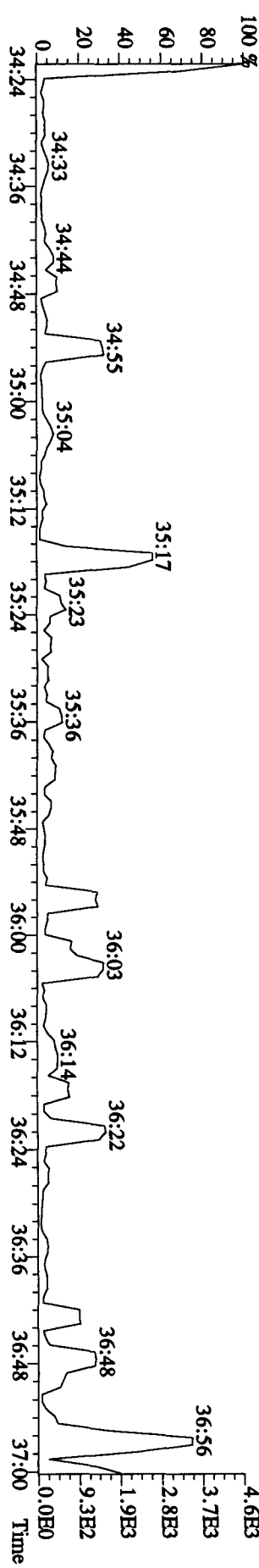
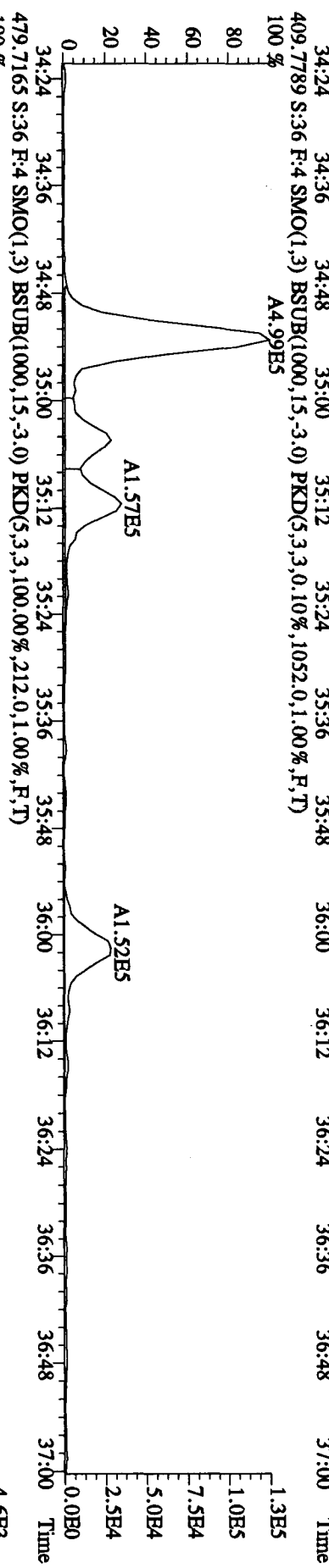
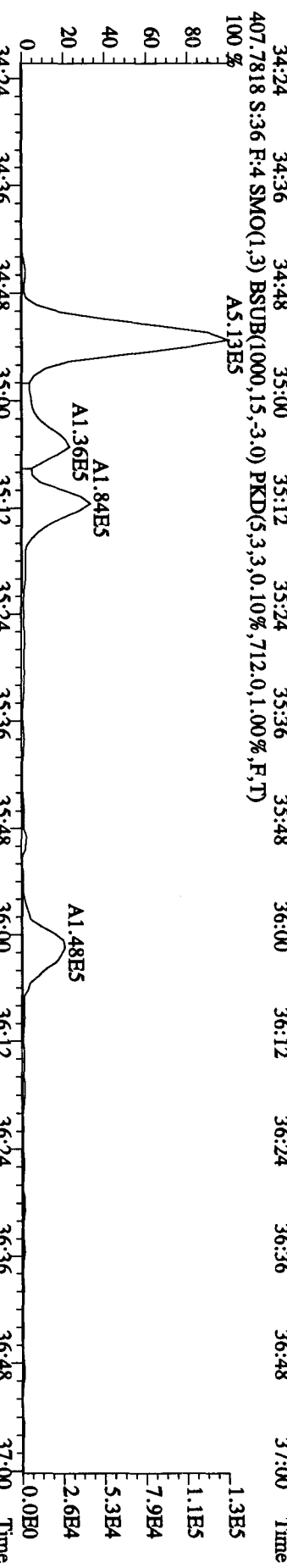
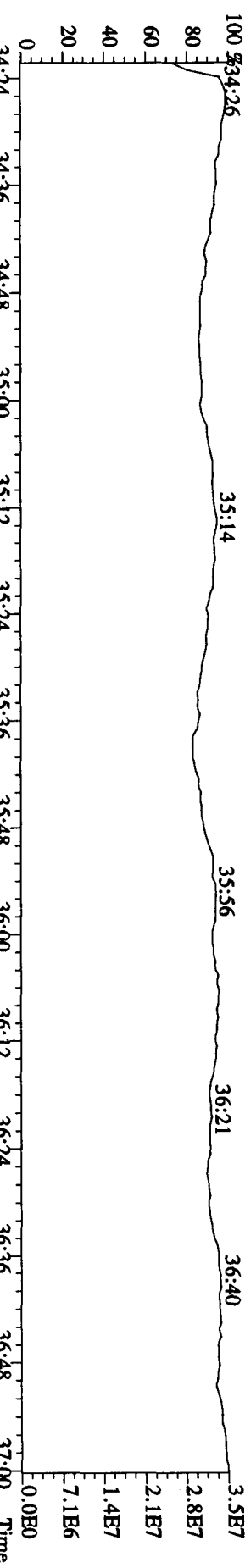
409.7974 S:3.6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,152.0,1.00%,F,T)



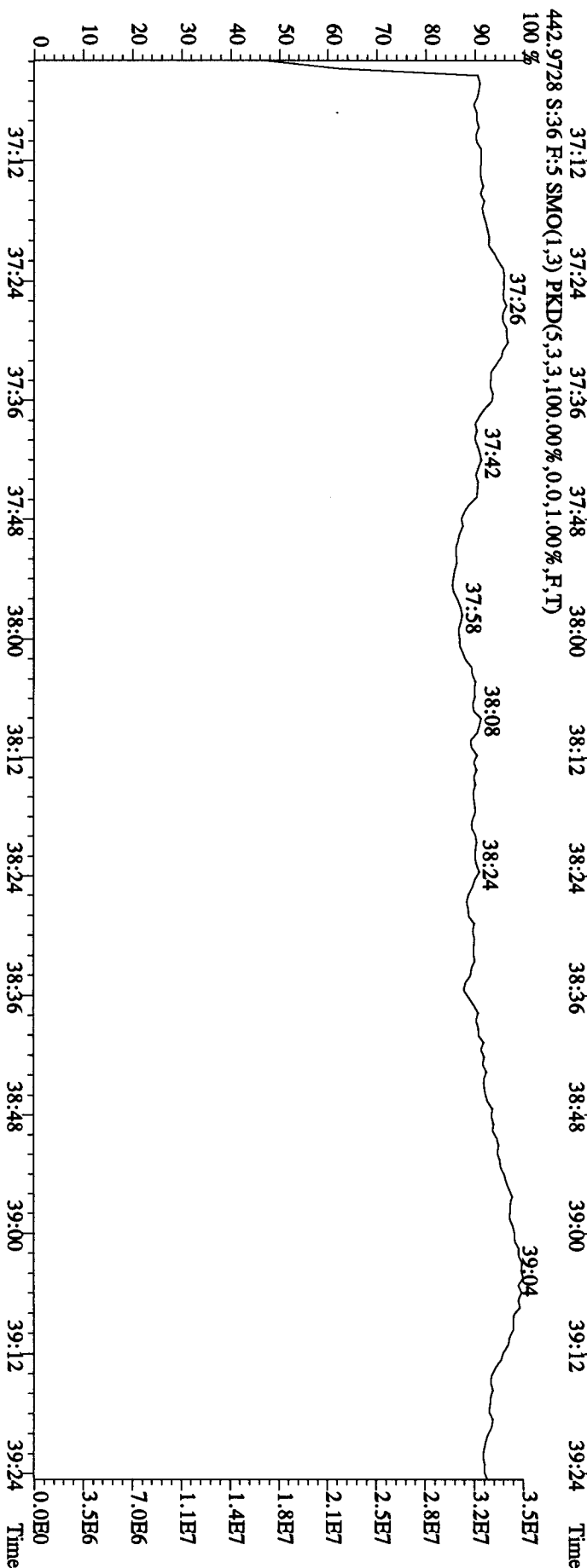
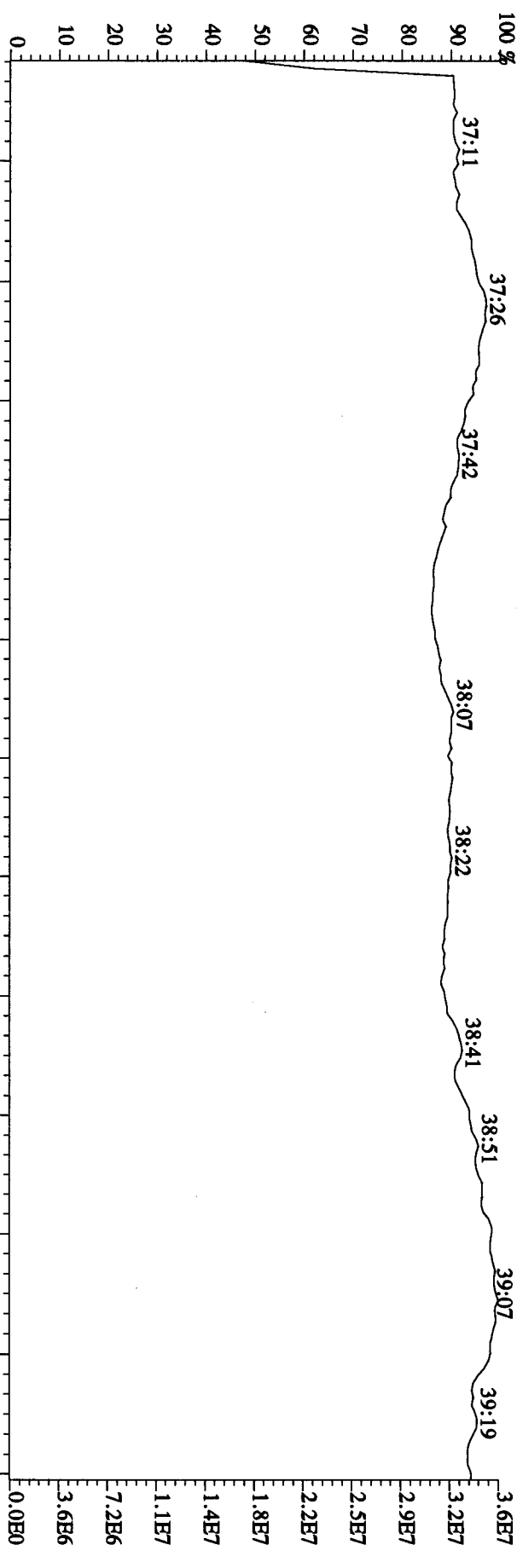
File: 280C104D5 #1-287 Acq: 29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text: L8VIE-1-AA : G0J210484-17 RI Exp: DIOXINRES
 392.9760 S:36 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



File:280C104D5 #1-200 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#36 Text:L8V1E-1-AA :G0J210484-17 RI Exp:DIOXINRES
 430.9728 S:3.6 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100 %34:26 35:14 35:56 36:21 36:40



File:28OC104D5 #1-193 Acq:29-OCT-2010 11:38:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#36 Text:L8VJE-1-AA :G0J210484-17 RI Exp:DIOXINRES
 454.9728 S:36 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

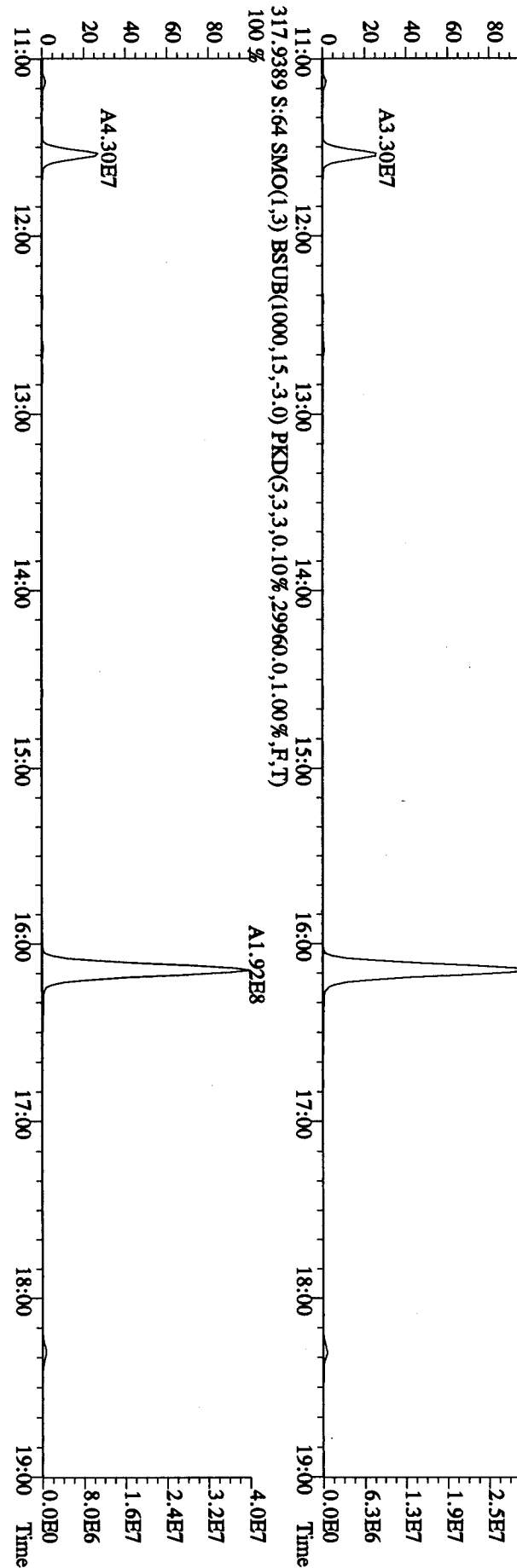
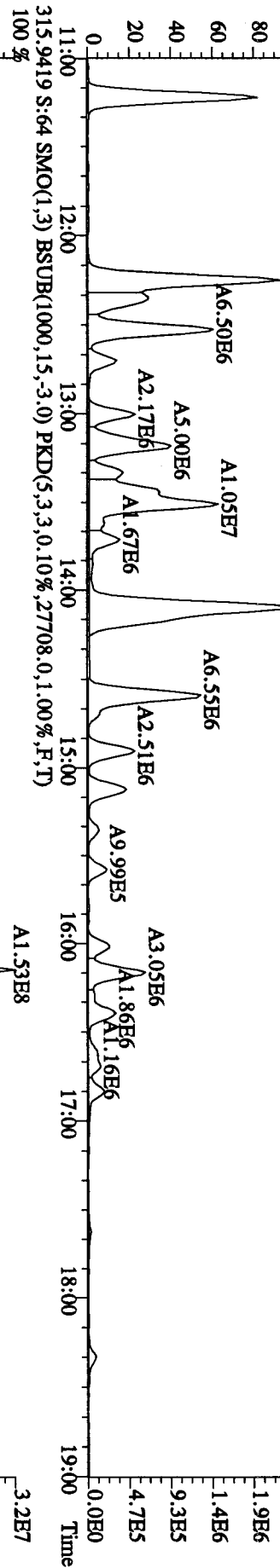
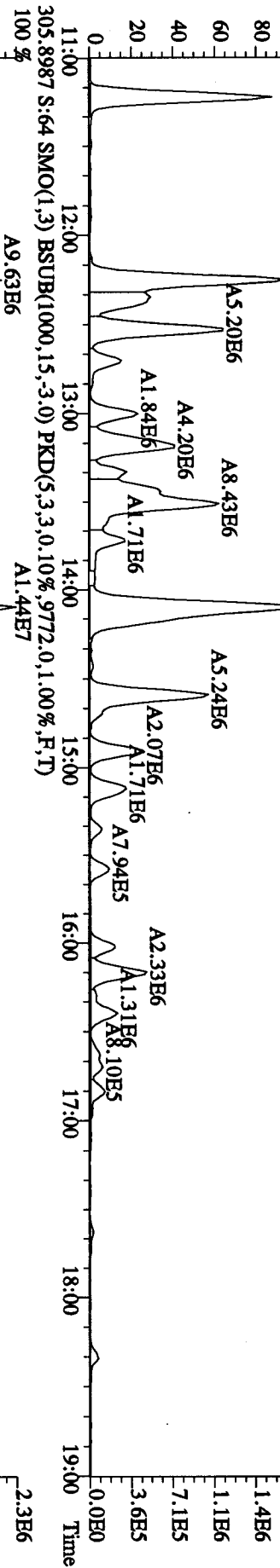


Run text: L8VJE-1-AA Sample text: L8VJE-1-AA :G0J210484-17
 Run #63 Filename: 27OC10A5D2 S: 64 I: 1 Results: 27OC10A5D2DB225
 Acquired: 29-OCT-10 11:56:33 Processed: 29-OCT-10 13:52:30
 Run: 27OC10A5D2 Analyte: DB225 Cal: DB2250726105D2R
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 sam

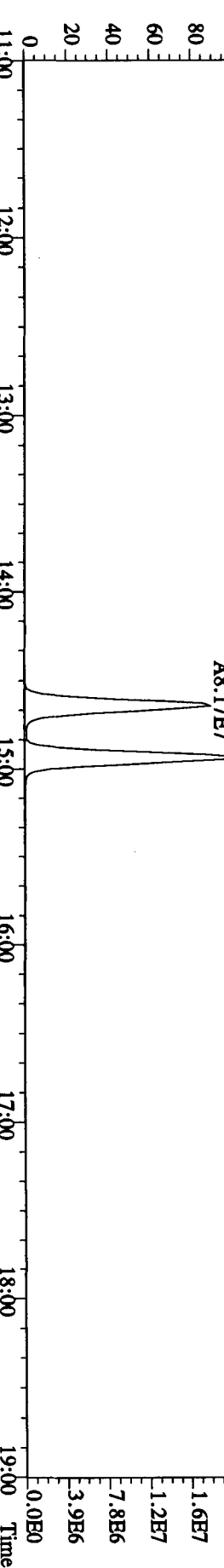
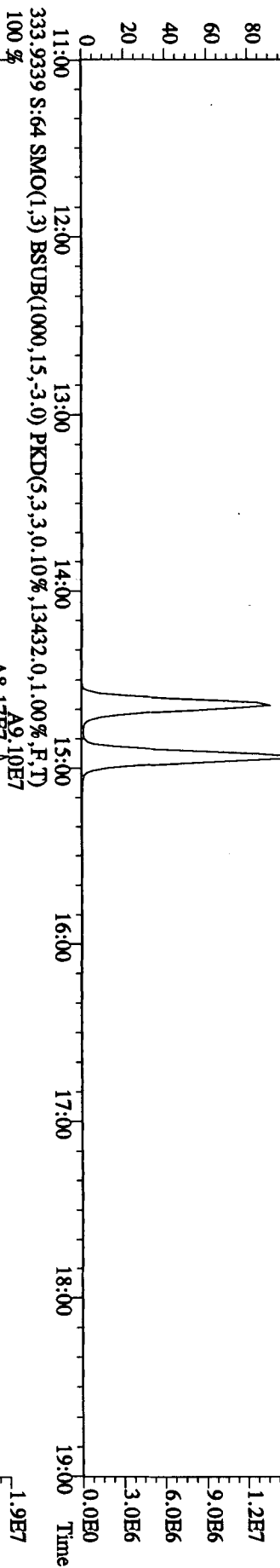
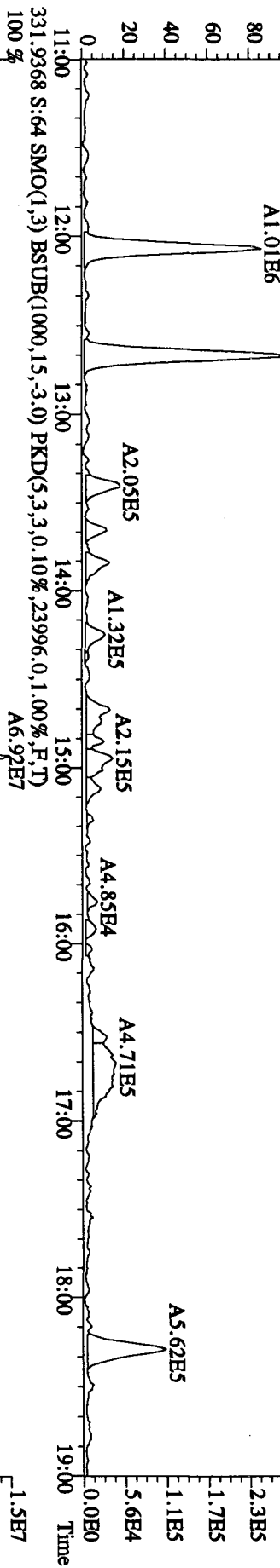
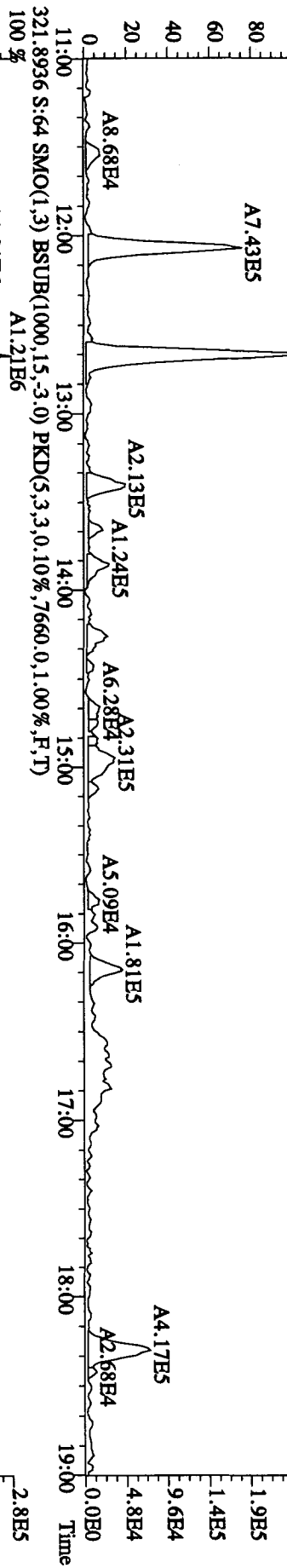
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	160208560	0.76 y	14:56	-	271.310	-	-	n
13C-2,3,7,8-TCDF	345232080	0.80 y	16:09	2.11	4082.482	9.502	102.1	n
2,3,7,8-TCDF	5379399	0.76 y	16:10	1.06	59.015	2.558	-	n
13C-2,3,7,8-TCDD	144543592	0.77 y	14:39	0.88	4079.138	14.717	102.0	n
2,3,7,8-TCDD	144446	0.28 n	14:40	1.64	2.444	3.314	-	n
37Cl-2,3,7,8-TCDD	92143960	1.00 y	14:40	1.29	1783.919	6.584	111.5	n

V\$10.3.6 -

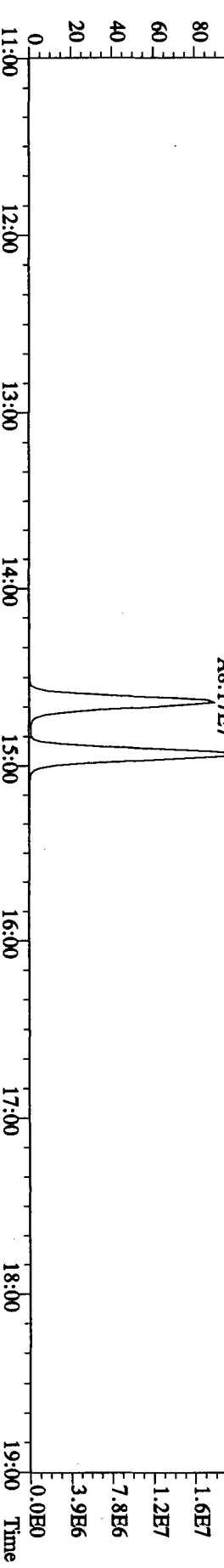
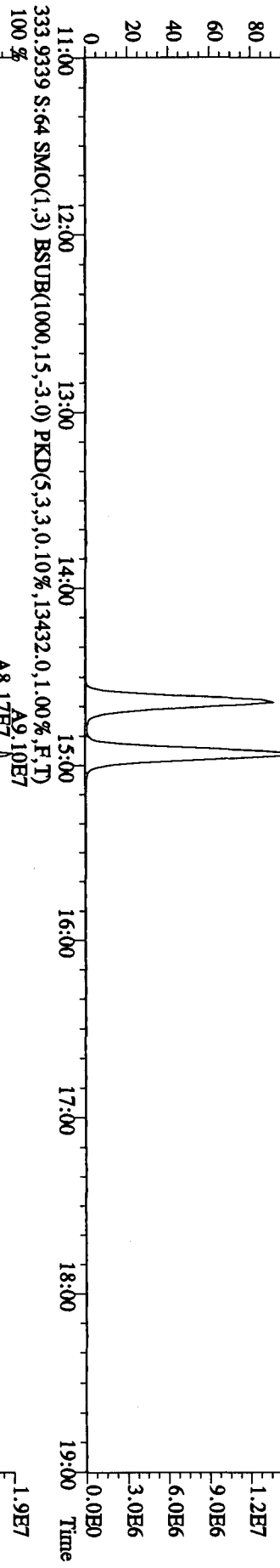
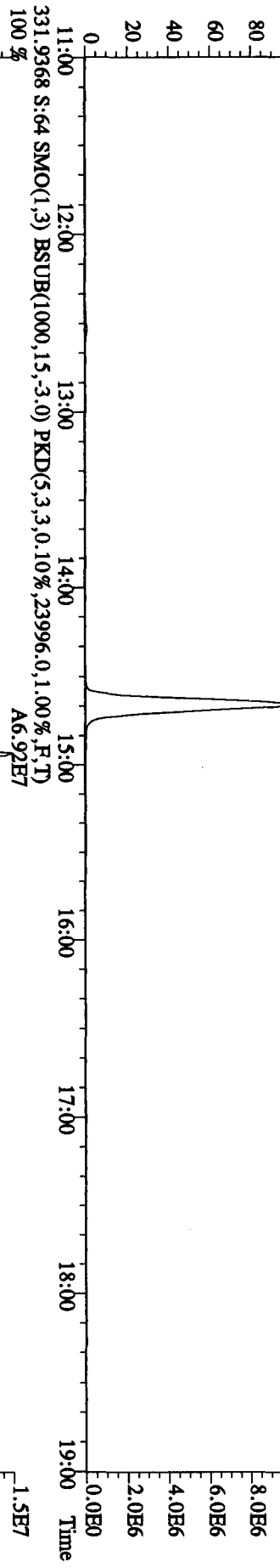
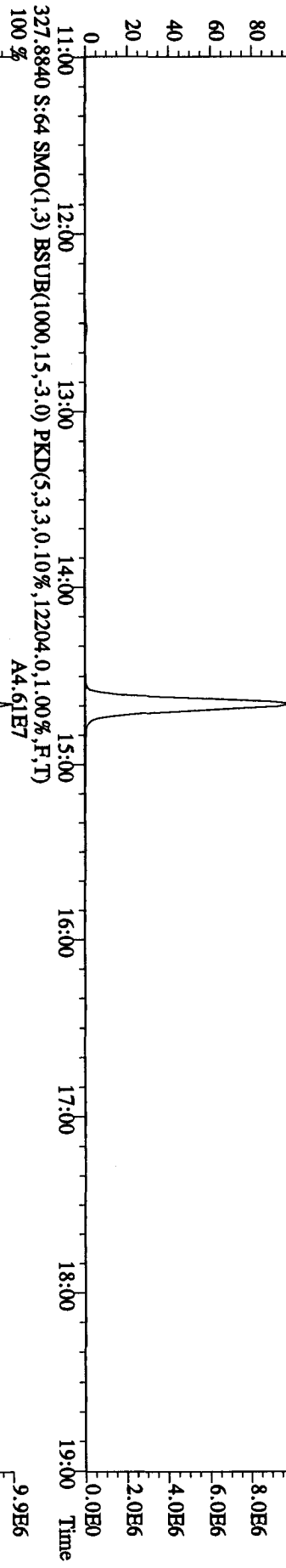
File:270C10A5D2 #1-1242 Acq:29-OCT-2010 11:56:33 GC EI+ Voltage SIR 70SE
 Sample#64 Text:L8VJE-1-AA :G0J210484-17 Exp:DB225RES
 303.9016 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6348,0,1,00%,F,T)
 100 % A7.59E6 A1.13E7



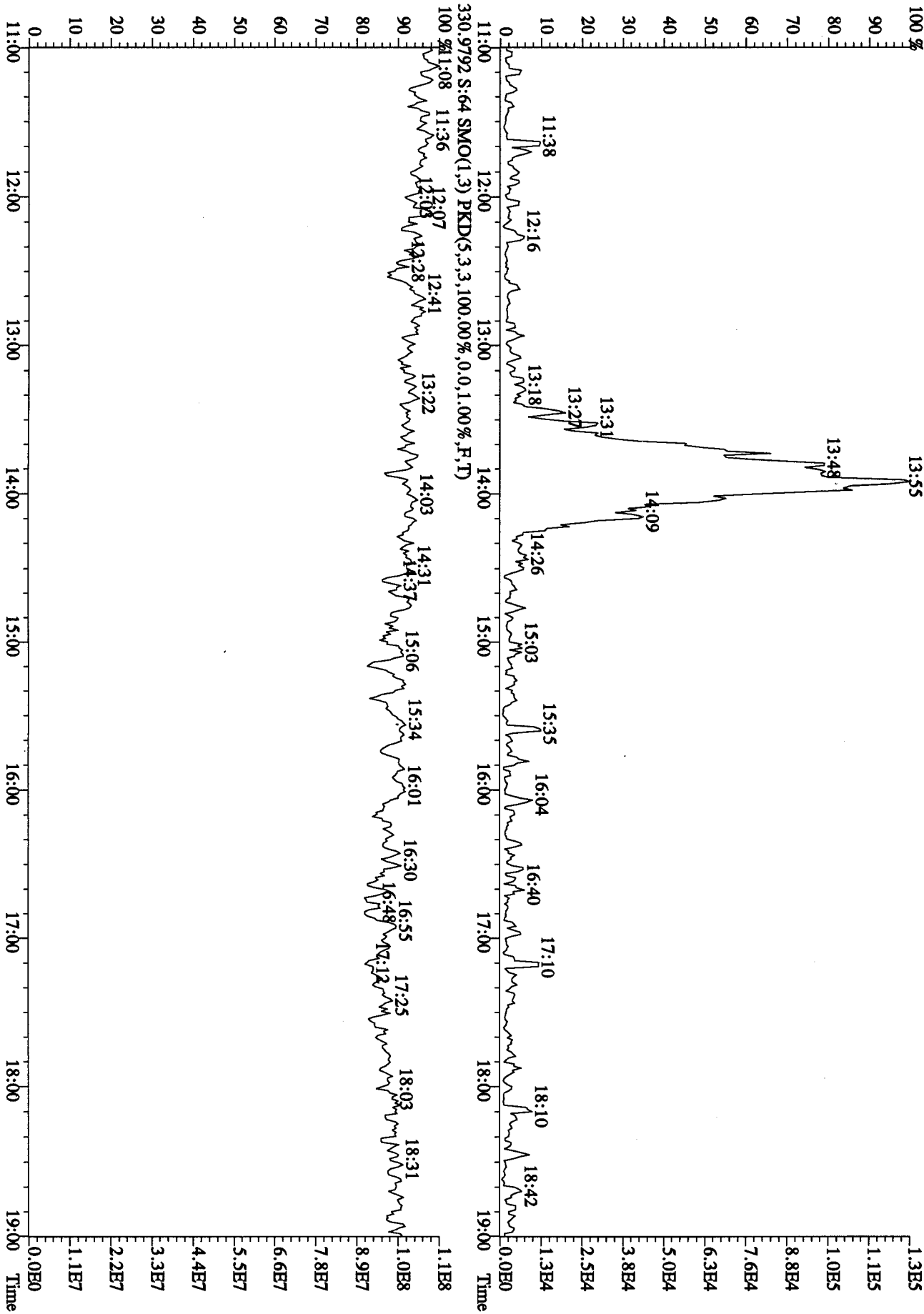
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 11:56:33 GC EI + Voltage SIR 70SE
 Sample#64 Text:L8VJE-1-AA :G0J210484-17 Exp:DB225RES
 319.8965 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6404.0,1.00%,F,T)
 100% A1.05E6



File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 11:56:33 GC EI + Voltage SIR 70SE
 Sample#64 Text:L8VJE-1-AA :G0J210484-17 Exp:DB225RES
 327.8840 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12204,0,1,00%,F,T)
 100% A4.61E7



File: 27OC10A5D2 #1-1242 Acq: 29-OCT-2010 11:56:33 GC EI + Voltage SIR 70SE
 Sample# 64 Text: L8VJE-1-AA : G0J210484-17 Exp: DB225RES
 375.8364 S: 64 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100%



Daily Calibration Checklist Dioxin Methods

Method ID DB225 (TO9)

Associated ICAL DB225 AIR 0726105D2R

Column ID DB225

Instrument ID 5D2

STD ID ST1027E, ST1027F

STD Solution 10DXN461

Analyzed by NK, AS

Date Analyzed 10-29-10

Std. Pkg. By NK

Date Std. Pkg. Assembled 10-29-10

Std. Pkg. Reviewed By AS

Date Std. Pkg. Reviewed 10-29-10

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: ST1027E File text: ST1027E :CS3 10DXN461
Run #8 Filename 27OC10A5D2 S: 53 I: 1
Acquired: 29-OCT-10 05:18:18 Processed: 29-OCT-10 14:53:26
Run: 27OC10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 27OC10A5D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	159246200	0.75 y	14:57	-	100.00	-	n
13C-2,3,7,8-TCDF	363970000	0.81 y	16:10	2.29	100.00	8.3	n
2,3,7,8-TCDF	40768900	0.80 y	16:11	1.12	10.00	6.1	n
13C-2,3,7,8-TCDD	156602200	0.74 y	14:39	0.98	100.00	11.2	n
2,3,7,8-TCDD	28119700	0.80 y	14:41	1.80	10.00	9.8	n
37Cl-2,3,7,8-TCDD	23372400	1.00 y	14:40	1.49	10.00	2.4	n

Run text: ST1027F File text: ST1027F :CS3 10DXN461
Run #9 Filename 27OC10A5D2 S: 68 I: 1
Acquired: 29-OCT-10 14:21:13 Processed: 29-OCT-10 15:40:42
Run: 27OC10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 27OC10A5D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	162854480	0.76 y	14:56	-	100.00	-	n
13C-2,3,7,8-TCDF	368736512	0.81 y	16:08	2.26	100.00	7.2	n
2,3,7,8-TCDF	41140256	0.80 y	16:10	1.12	10.00	5.6	n
13C-2,3,7,8-TCDD	153873400	0.75 y	14:38	0.94	100.00	6.8	n
2,3,7,8-TCDD	27848005	0.83 y	14:40	1.81	10.00	10.6	n
37Cl-2,3,7,8-TCDD	23908114	1.00 y	14:40	1.55	10.00	6.6	n

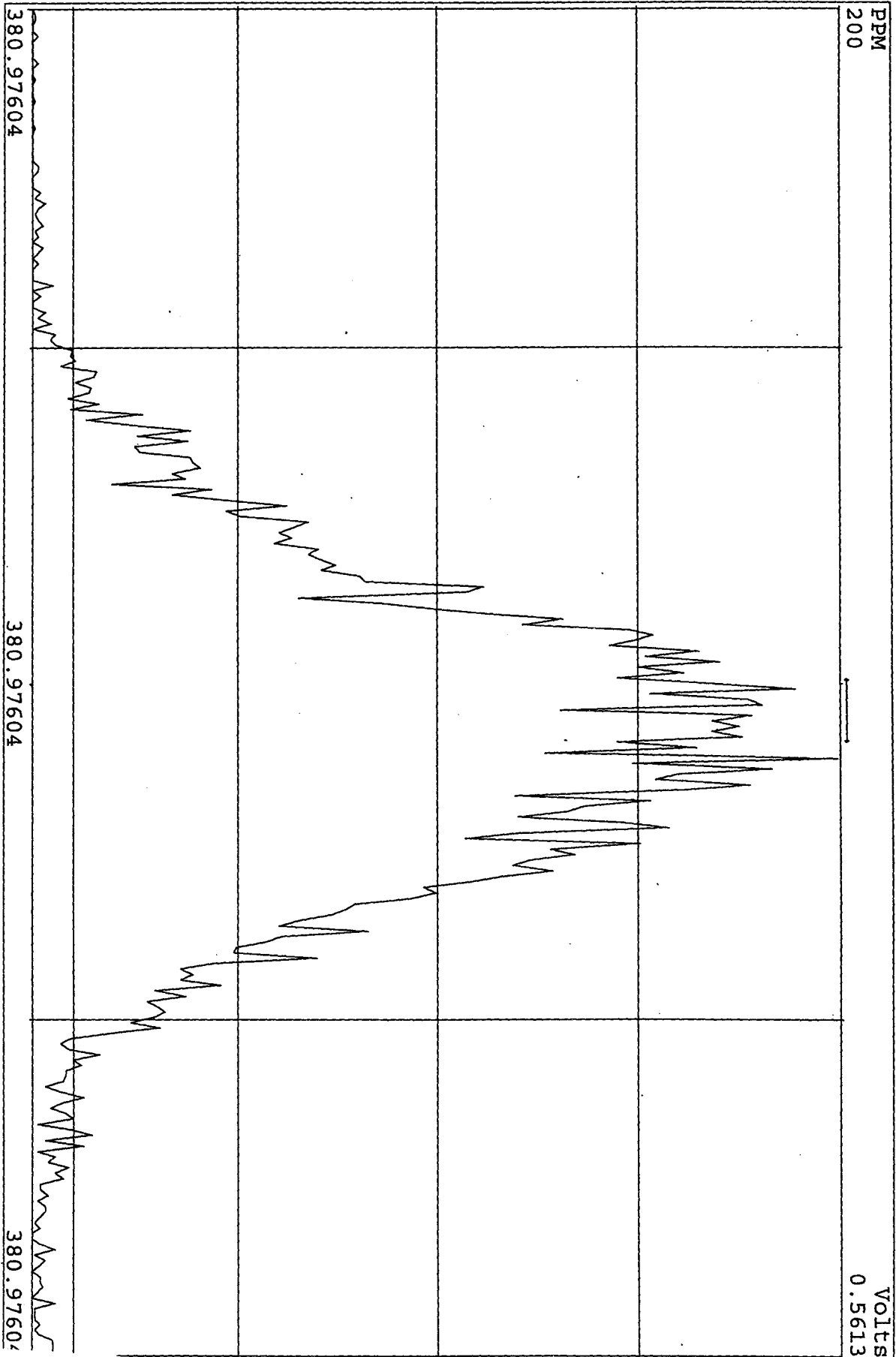
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
27OC10A5D2	1	CP1027A	DB-225 CPSM 3732-06				1.0000	
27OC10A5D2	2	ST1027B	CS3 10DXN461				1.0000	
27OC10A5D2	3	L79MN-1-AU	G0J110456-1	20	8290/SOLID	82	10.0500	g
27OC10A5D2	4	L79MX-1-A3	G0J110456-3	20	8290/SOLID		10.0600	g
27OC10A5D2	5	L79M4-1-A3	G0J110456-6	20	8290/SOLID		9.9600	g
27OC10A5D2	6	L79M7-1-A3	G0J110456-8	20	8290/SOLID		9.9800	g
27OC10A5D2	7	L8E9G-1-AU	G0J130451-1	20	8290/SOLID	89	9.9500	g
27OC10A5D2	8	L8E9J-1-A3	G0J130451-3	20	8290/SOLID		10.0600	g
27OC10A5D2	9	L8CMM-1-AC	G0J120514-1	20	8290/SOLID	82	10.6900	g
27OC10A5D2	10	L8HMN-1-AC	G0J140638-1	10	8290/SOLID	85	10.0100	g
27OC10A5D2	11	L8HMP-1-AC	G0J140638-2	10	8290/SOLID		10.0100	g
27OC10A5D2	12	L8HMQ-1-AC	G0J140638-3	10	8290/SOLID		9.9800	g
27OC10A5D2	13	L8HMR-1-AC	G0J140638-4	10	8290/SOLID		10.0000	g
27OC10A5D2	14	L8HMX-1-AC	G0J140638-8	10	8290/SOLID		9.9800	g
27OC10A5D2	15	L8HM1-1-AC	G0J140638-9	10	8290/SOLID		9.9600	g
27OC10A5D2	16	L8L6F-1-AD	G0J170407-1	20	1613B/SOLID	87	10.0300	g
27OC10A5D2	17	SB1027B	Solvent Blank				1.0000	
27OC10A5D2	18	ST1027C	CS3 10DXN461				1.0000	
27OC10A5D2	19	CP1027B	DB-225 CPSM 3732-06				1.0000	
27OC10A5D2	20	SB1027C	Solvent Blank				1.0000	
27OC10A5D2	21	L79MN-1-AU	G0J110456-1 RI	20	8290/SOLID	82	10.0500	g
27OC10A5D2	22	L79MX-1-A3	G0J110456-3 RI	20	8290/SOLID		10.0600	g
27OC10A5D2	23	L79M4-1-A3	G0J110456-6 RI	20	8290/SOLID		9.9600	g
27OC10A5D2	24	L79M7-1-A3	G0J110456-8 RI	20	8290/SOLID		9.9800	g
27OC10A5D2	25	L8E93-1-AA	G0J130611-1	20	8290/WIPE	87	0.5000	SAM
27OC10A5D2	26	L8E97-1-AA	G0J130611-4	20	8290/WIPE		0.5000	SAM
27OC10A5D2	27	L8E98-1-AA	G0J130611-5	20	8290/WIPE		0.5000	SAM
27OC10A5D2	28	L8E99-1-AA	G0J130611-6	20	8290/WIPE		0.5000	SAM
27OC10A5D2	29	L8FAA-1-AA	G0J130611-7	20	8290/WIPE		0.5000	SAM
27OC10A5D2	30	L8FAC-1-AA	G0J130611-8	20	8290/WIPE		0.5000	SAM
27OC10A5D2	31	L8FAD-1-AA	G0J130611-9	20	8290/WIPE		0.5000	SAM
27OC10A5D2	32	L8E9G-1-AU	G0J130451-1	20	8290/SOLID	89	9.9500	g
27OC10A5D2	33	L8E9J-1-A3	G0J130451-3	20	8290/SOLID		10.0600	g
27OC10A5D2	34	L8CMM-1-AC	G0J120514-1	20	8290/SOLID	82	10.6900	g
27OC10A5D2	35	SB1027D	Solvent Blank				1.0000	
27OC10A5D2	36	ST1027D	CS3 10DXN461				1.0000	
27OC10A5D2	37	CP1027C	DB-225 CPSM 3732-06				1.0000	
27OC10A5D2	38	SB1027C	Solvent Blank				1.0000	
27OC10A5D2	39	L8L6F-1-AD	G0J170407-1	20	1613B/SOLID	87	10.0300	g
27OC10A5D2	40	L73G1-1-AC	G0J060523-1	10	23/AIR	81	0.3330	g
27OC10A5D2	41	L77JJ-2-AA	G0J080611-10RX	10	8290/SOLID	93	1.3700	g
27OC10A5D2	42	L77JK-2-AA	G0J080611-11RX	10	8290/SOLID		1.1200	g
27OC10A5D2	43	L8QJJ-1-AD	G0J190547-1	20	8290/SOLID	90	10.4600	g
27OC10A5D2	44	L8GQC-1-AF	F0J140526-1	20	8290/SOLID	91	10.1650	g
27OC10A5D2	45	L8GQG-1-AF	F0J140526-2	20	8290/SOLID		10.1650	g
27OC10A5D2	46	L8L6C-1-AA	G0J170406-9	20	8290/WIPE	92	0.5000	sam
27OC10A5D2	47	L8HMN-1-AC	G0J140638-1	10	8290/SOLID	85	10.0100	g
27OC10A5D2	48	L8HMP-1-AC	G0J140638-2	10	8290/SOLID		10.0100	g
27OC10A5D2	49	L8HMR-1-AC	G0J140638-4	10	8290/SOLID		10.0000	g
27OC10A5D2	50	L8HMX-1-AC	G0J140638-8	10	8290/SOLID		9.9800	g
27OC10A5D2	51	L8HM1-1-AC	G0J140638-9	10	8290/SOLID		9.9600	g
27OC10A5D2	52	SB1027C	Solvent Blank				1.0000	
27OC10A5D2	53	ST1027E	CS3 10DXN461				1.0000	

27OC10A5D2	54	CP1027D	DB-225 CPSM 3732-06				1.0000	
27OC10A5D2	55	SB1027D	Solvent Blank				1.0000	
27OC10A5D2	56	L8L5X-1-AC	G0J170404-1	10	8290/SOLID	89	10.0500	g
27OC10A5D2	57	L8L50-1-AC	G0J170404-2	10	8290/SOLID		10.0700	g
OC10A5D2	58	L8L53-1-AA	G0J170406-1	20	8290/SOLID	92	0.5000	sam
27OC10A5D2	59	L8L54-1-AA	G0J170406-2	20	8290/SOLID		0.5000	sam
27OC10A5D2	60	L8L55-1-AA	G0J170406-3	20	8290/SOLID		0.5000	sam
27OC10A5D2	61	L7LT0-1-AC	G0J280505-1	20	1613B/SOLID	74	9.9400	g
27OC10A5D2	62	L8VH6-1-AA	G0J210484-11	20	TO9/AIR	93	0.5000	sam
27OC10A5D2	63	L8VH8-1-AA	G0J210484-13	20	TO9/AIR		0.5000	sam
27OC10A5D2	64	L8VJE-1-AA	G0J210484-17	20	TO9/AIR		0.5000	sam
27OC10A5D2	65	L8HM2-1-AC	G0J140638-10	10	8290/SOLID	85	10.0200	g
27OC10A5D2	66	L8HM3-1-AC	G0J140638-11	10	8290/SOLID		9.9900	g
27OC10A5D2	67	SB1027E	Solvent Blank				1.0000	
27OC10A5D2	68	ST1027F	CS3 10DXN461				1.0000	
27OC10A5D2	69						1.0000	
27OC10A5D2	70						1.0000	
27OC10A5D2	71						1.0000	
27OC10A5D2	72						1.0000	
27OC10A5D2	73						1.0000	
27OC10A5D2	74						1.0000	

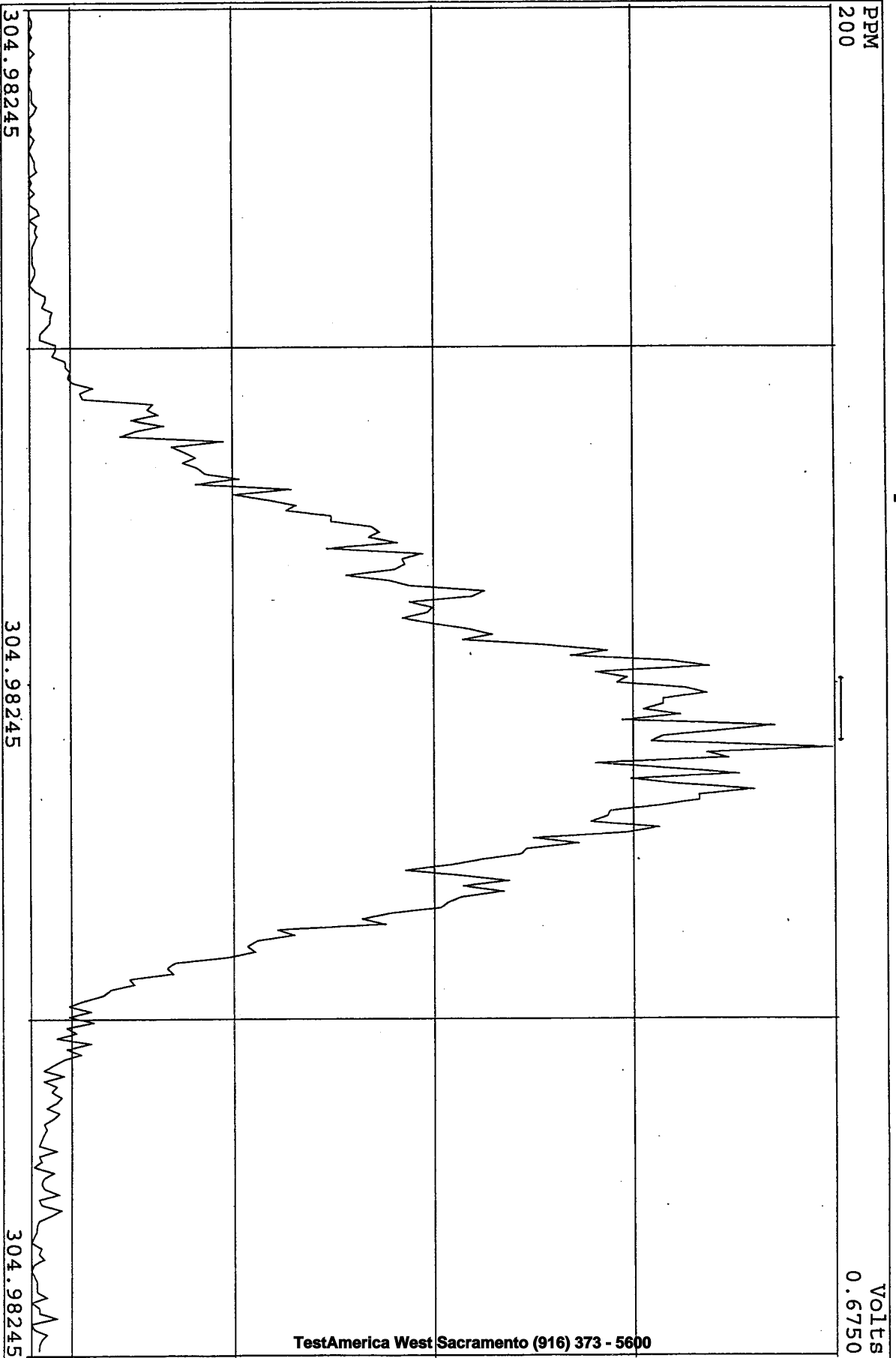
log file v/d
AS
10/29/10

NK, AS 10/27/10,10/28/10

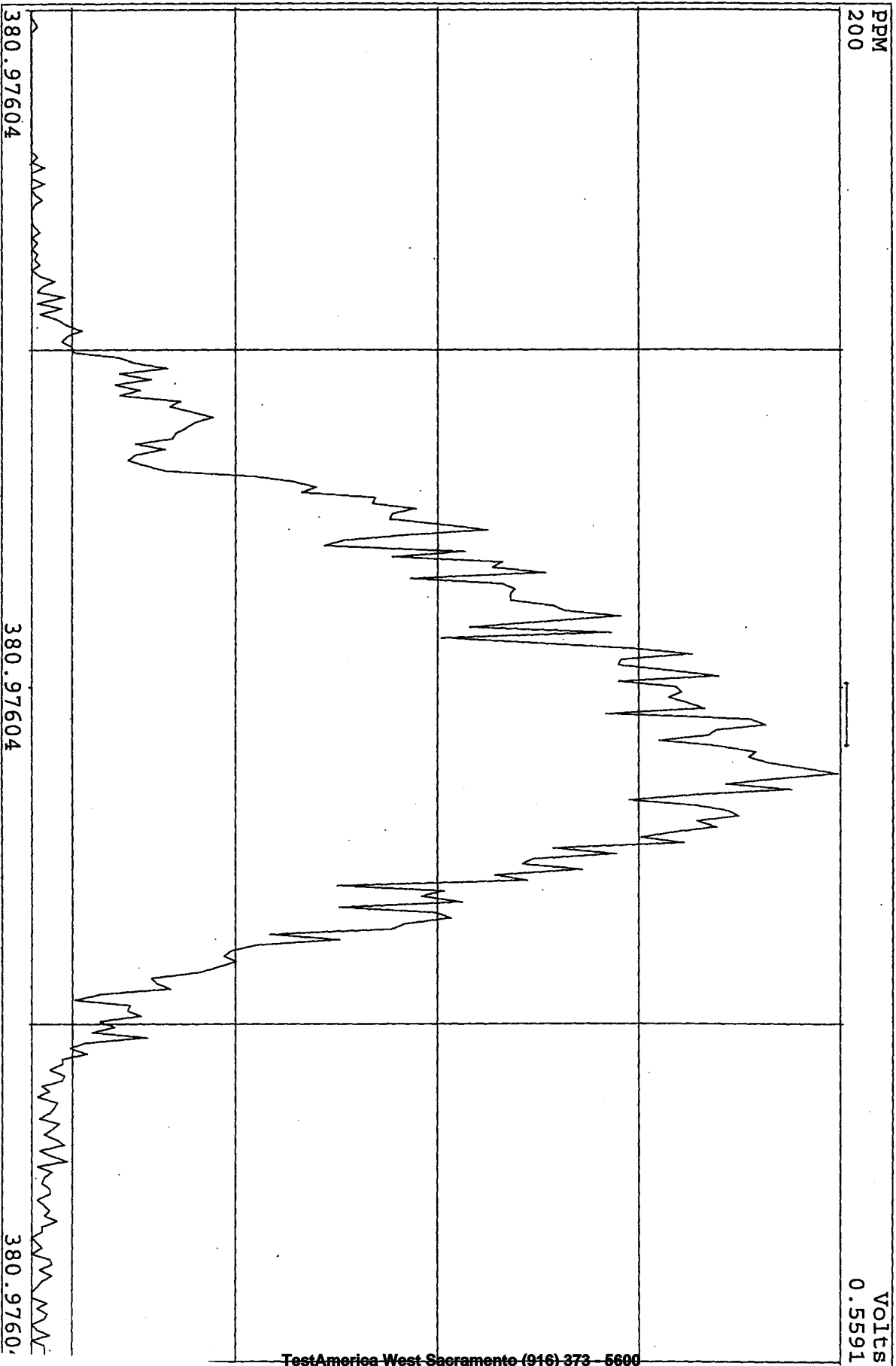
SIRIM Examination: 29-OCT-2010: 05:43 File: 27OCT10A5D2
Experiment: DB225RES Function: 2



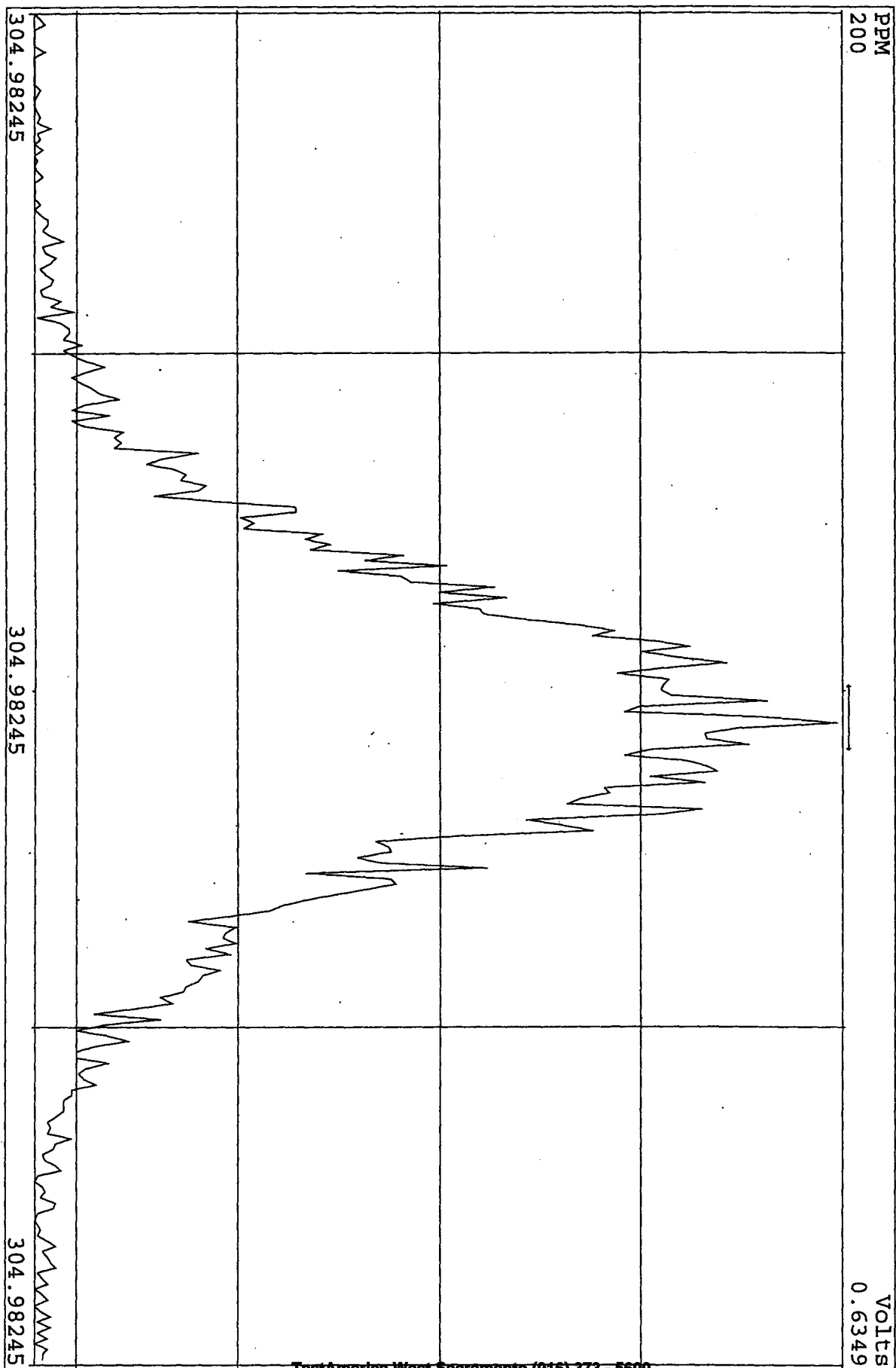
SIRLM Examination: 29-OCT-2010:05:45 File: 270C10A5D2
Experiment: DB225RES Function: 3



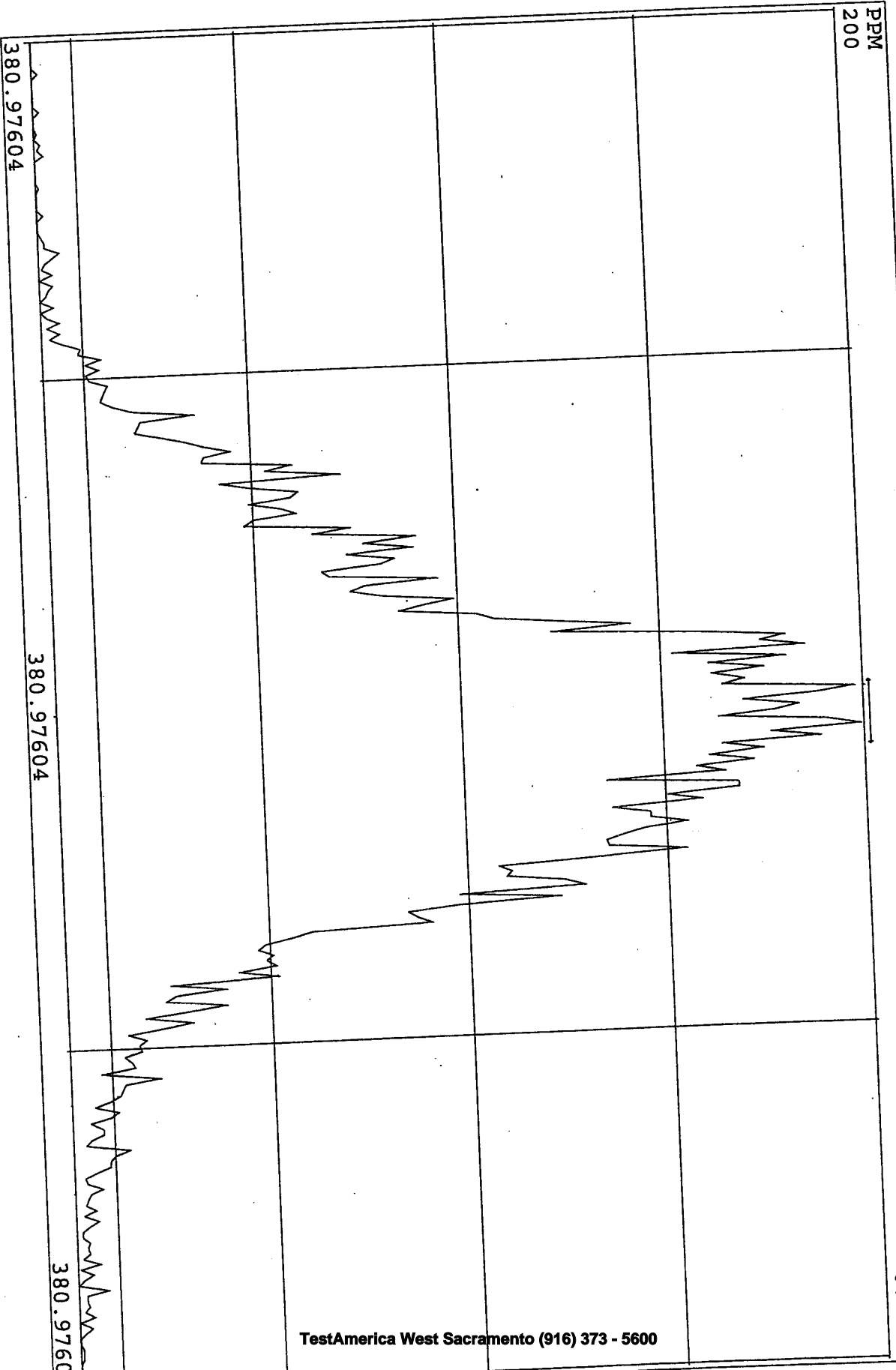
SIRLM Examination: 29-OCT-2010: 14:10 File: 270C10A5D2
Experiment: DB225RES Function: 2



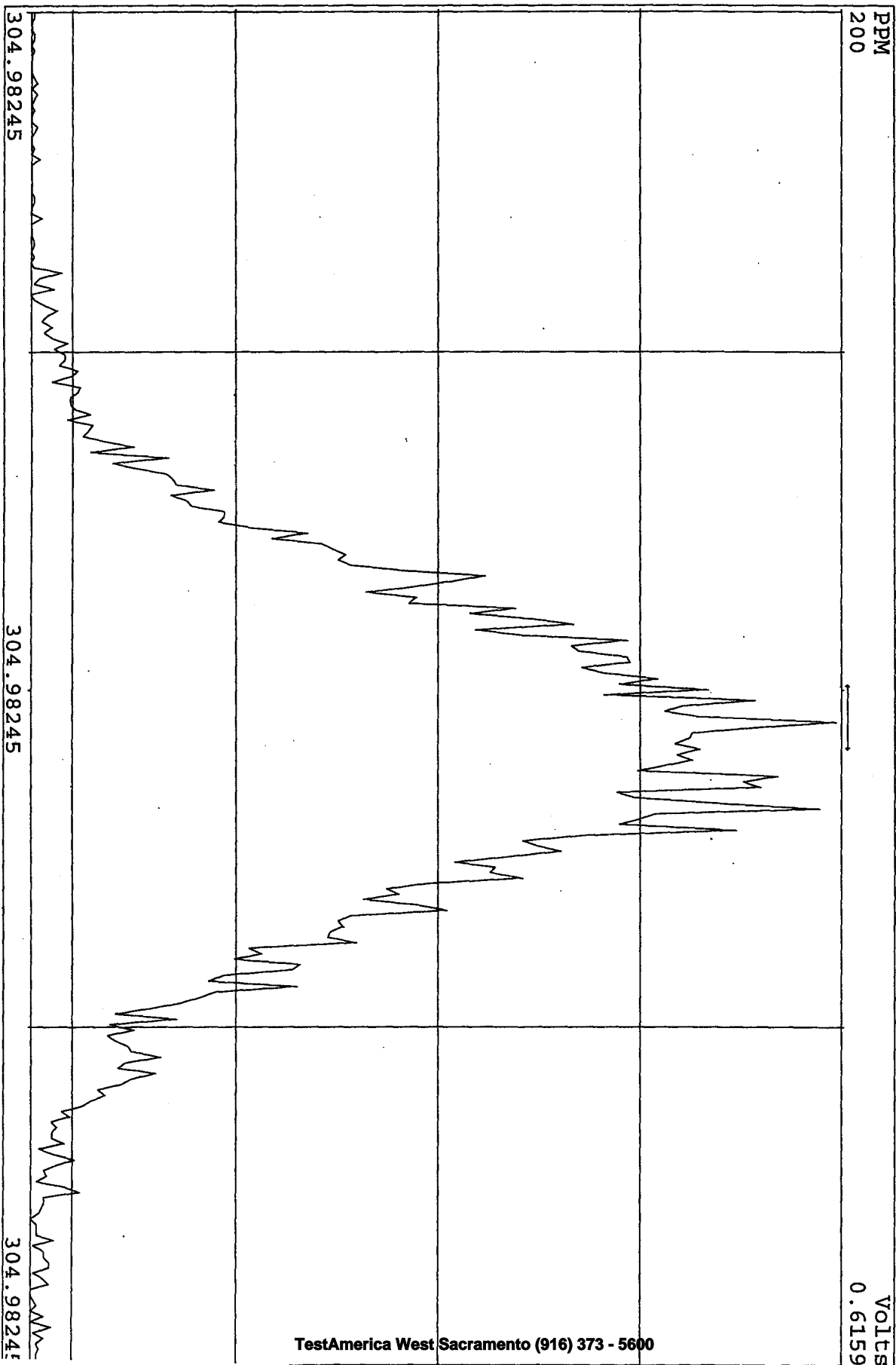
SIRLM Examination: 29-OCT-2010: 14:12 File: 270C10A5D2
Experiment: DB225RES Function: 3



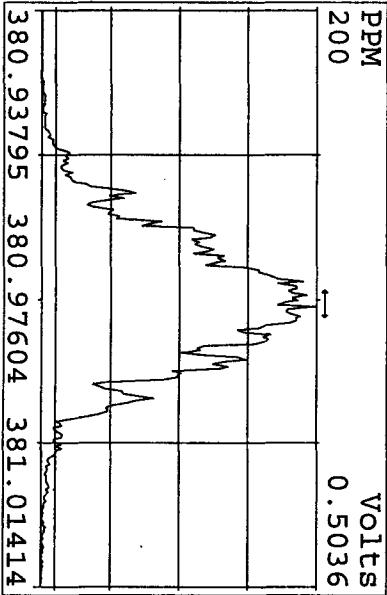
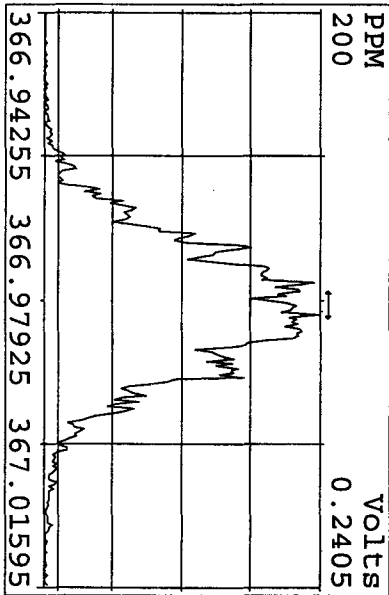
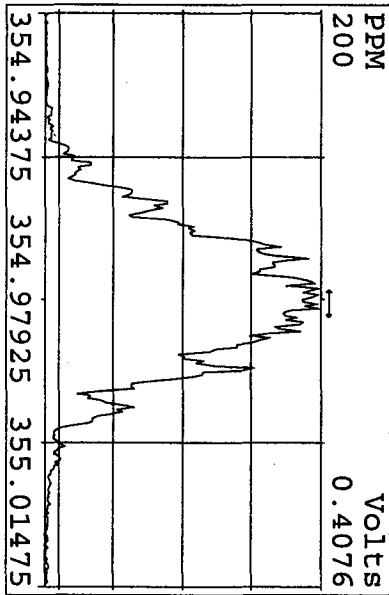
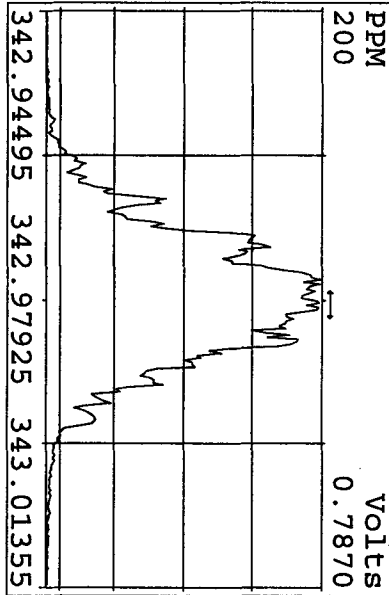
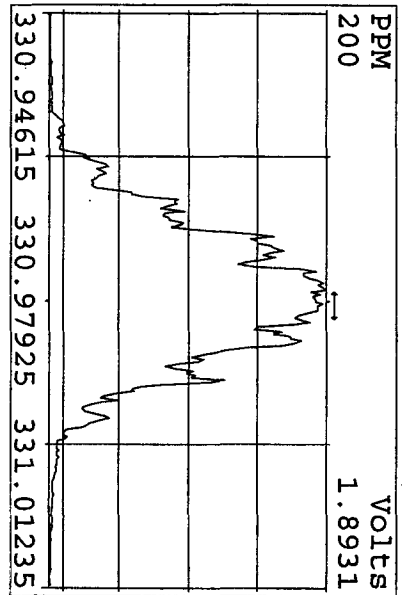
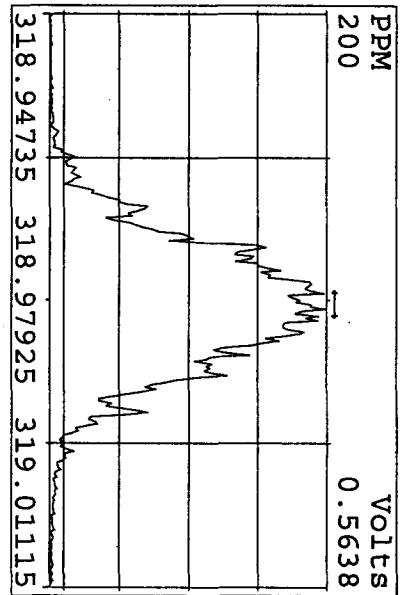
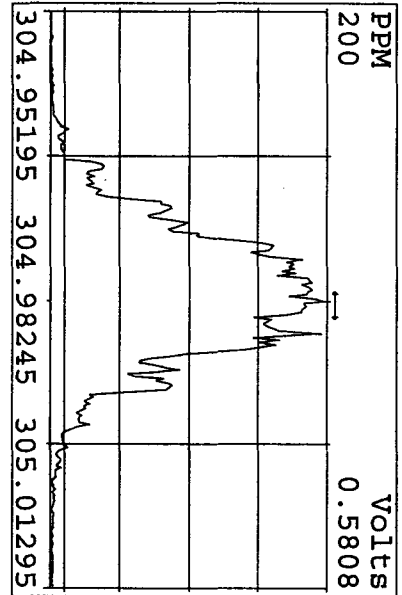
SIRLM Examination: 29-OCT-2010: 14:46 File: 270C10A5D2
Experiment: DB225RES Function: 2



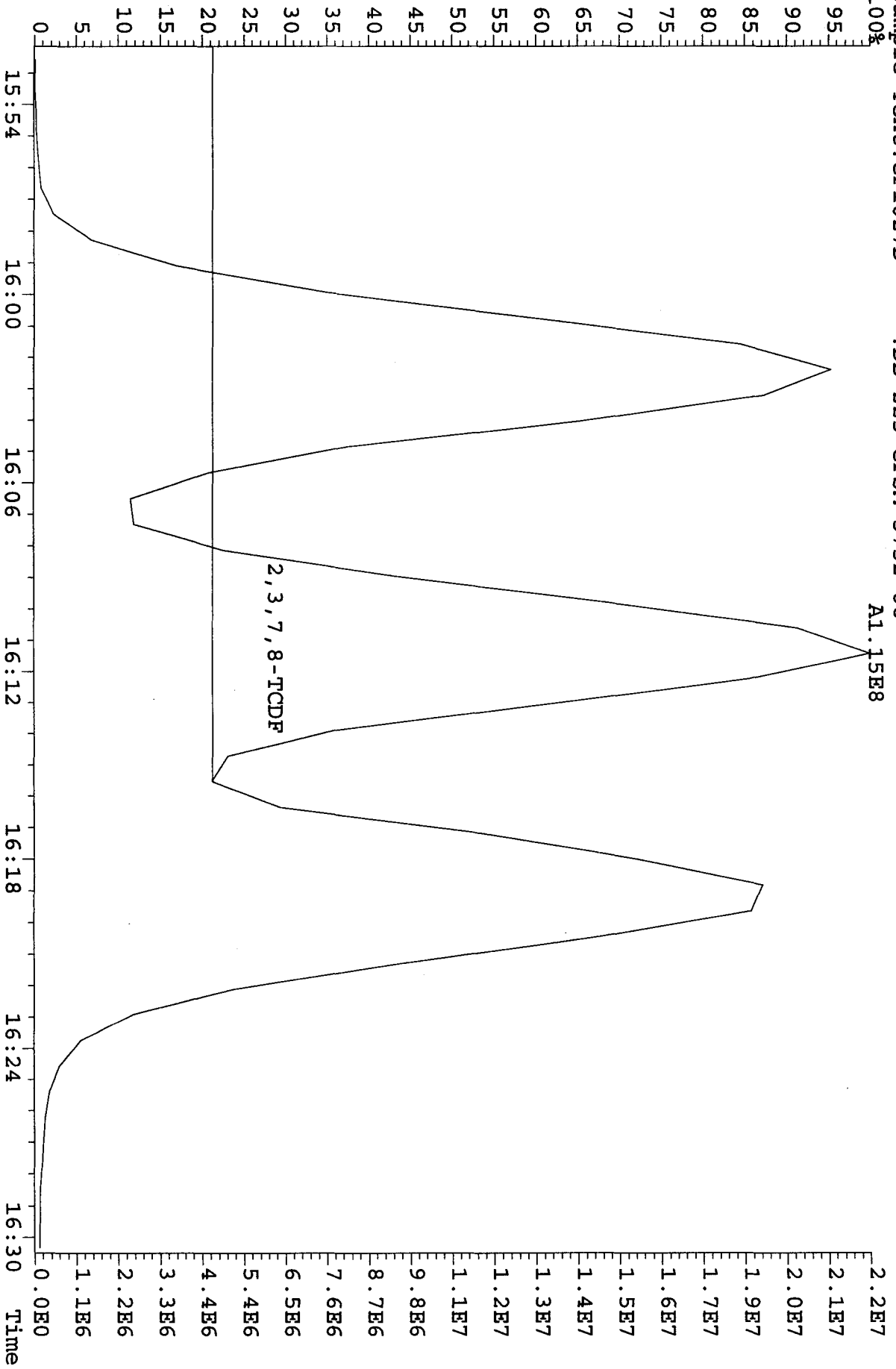
SIRLM Examination: 29-OCT-2010: 14:48 File: 270C10A5D2
Experiment: DB225RES Function: 3



Peak Locate Examination: 29-OCT-2010: 15:28 File: ENDRS270C10A5D2
 Experiment: DB225RES Function: 2 Reference: PFK



File: 270C10A5D2 #1-1242 Acq: 29-OCT-2010 05:54:33 GC EI+ Voltage SIR 70SE
 303.9016 S:54 BSUB(128,15,-3.0) Exp: DB225RES Noise: 2090
 Sample Text: CP1027D : DB-225 CPSM 3732-06
 A1.15E8

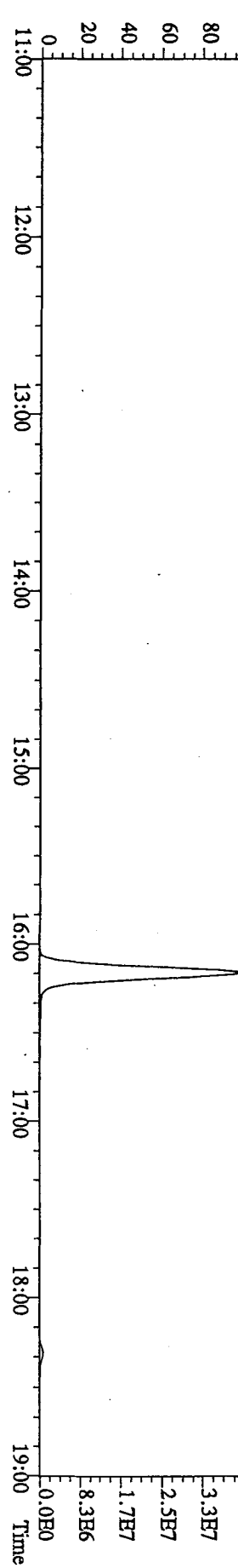
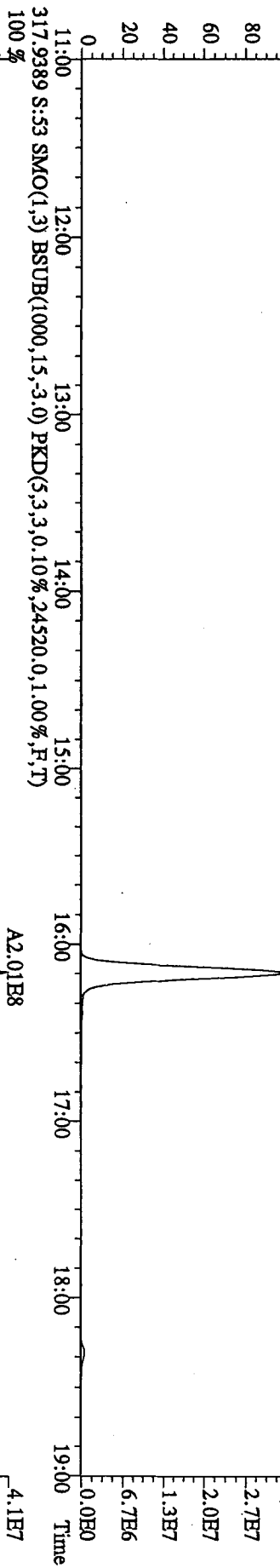
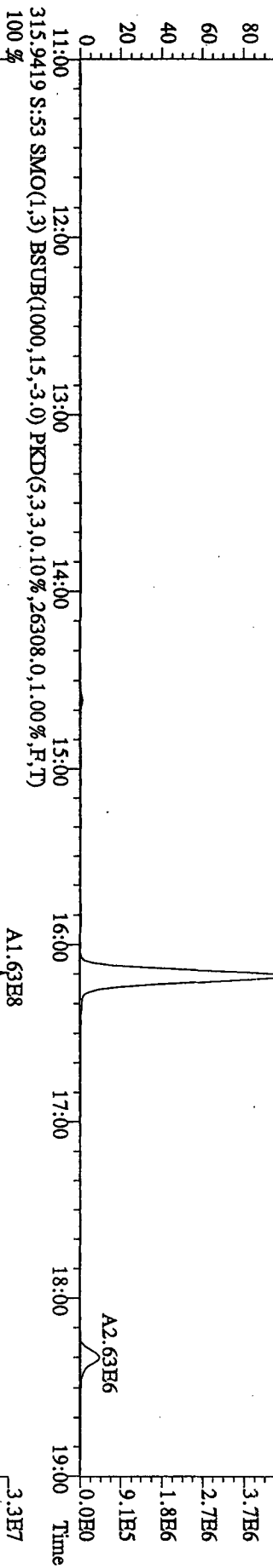
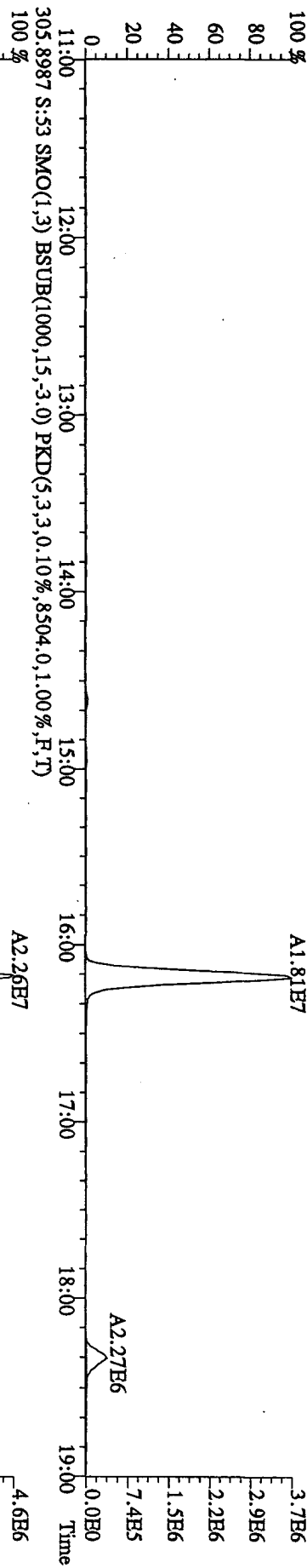


Run: 270C10A5D2 Analyte: DE225AIR Cal: DE225AIR0726105D2R

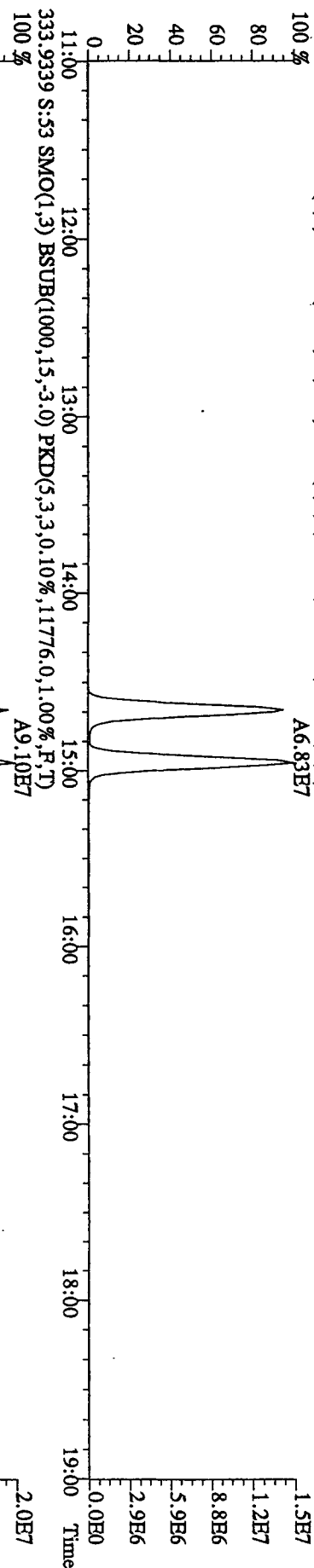
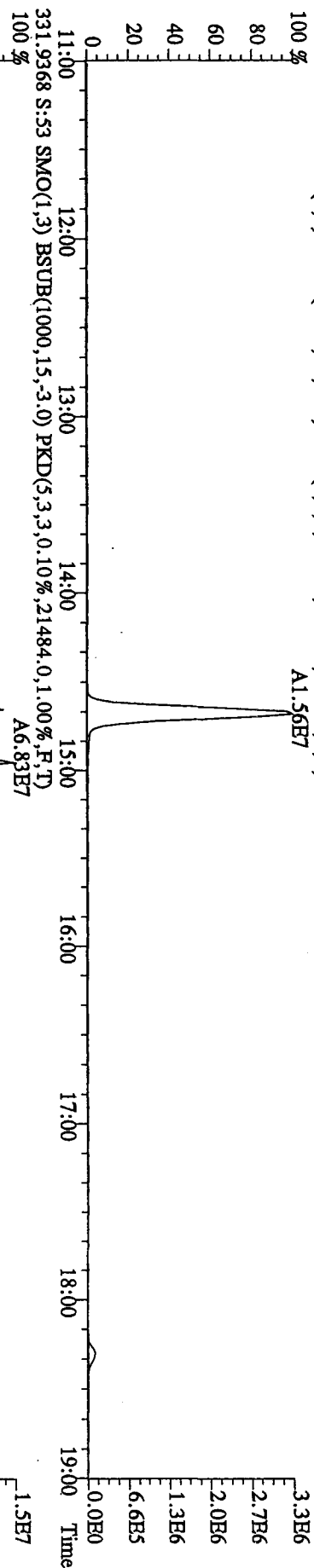
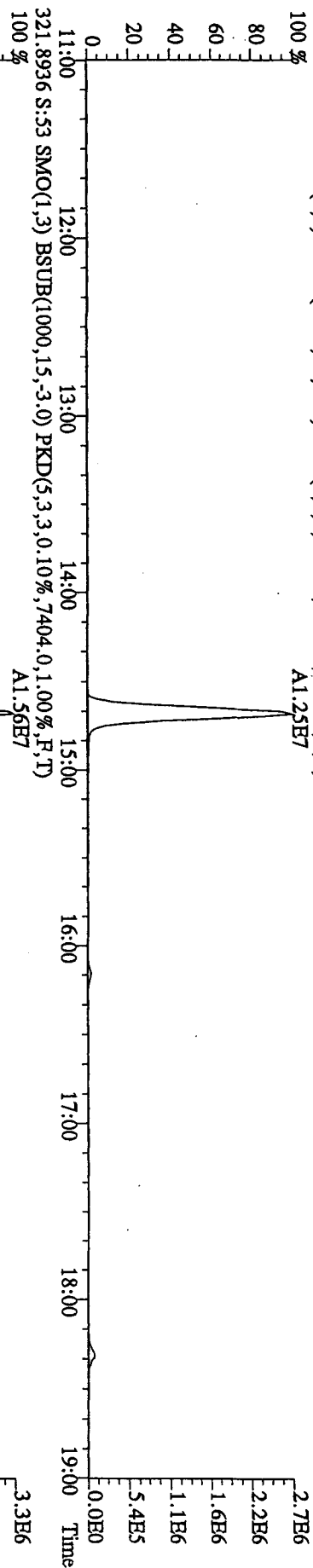
ST0726A : CS-1 10DXN342 RI ST0726B : CS-2 10DXN335 ST0726C : CS-3 10DXN336
 ST0726E : CS-4 10DXN337 ST0726D : CS-5 10DXN339

Name	Mean	S. D.	%RSD	26JL105D2				
				S6	S5	S7	S9	S8
13C-1,2,3,4-TCDD	-	-	-	RRF1	RRF2	RRF3	RRF4	RRF5
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.458	0.044	3.01 %	1.40	1.42	1.47	1.49	1.50

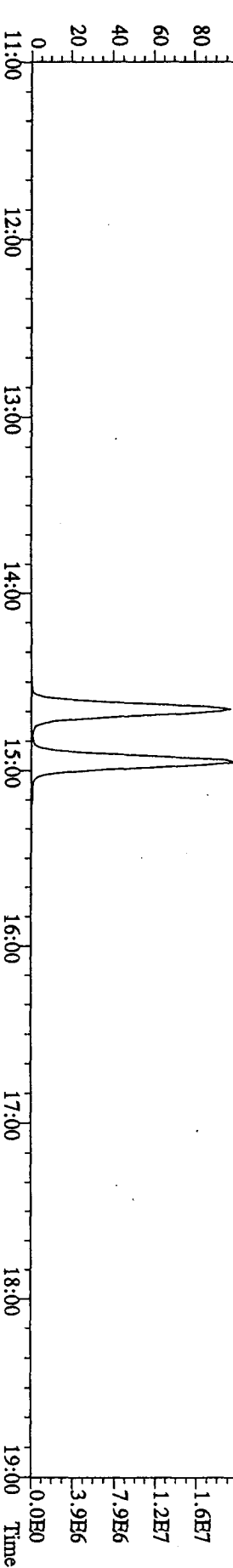
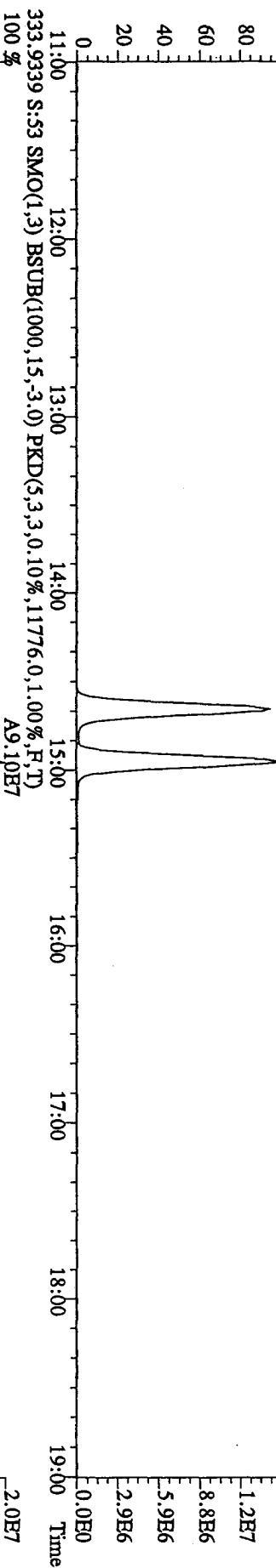
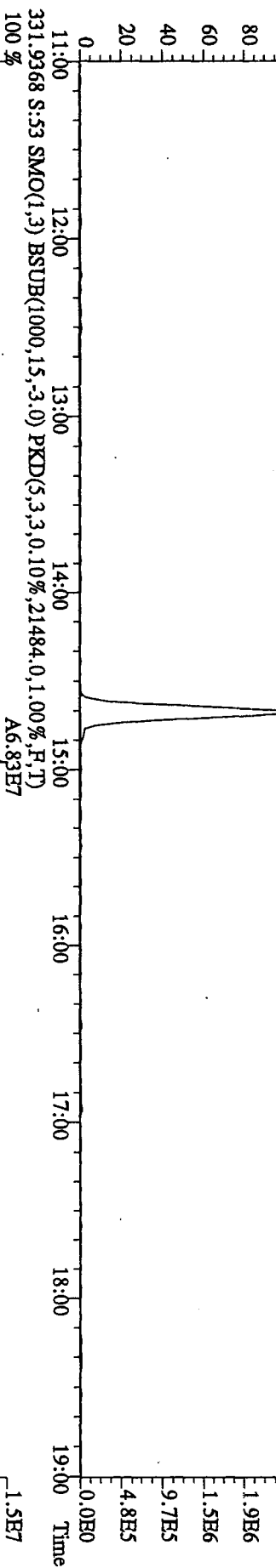
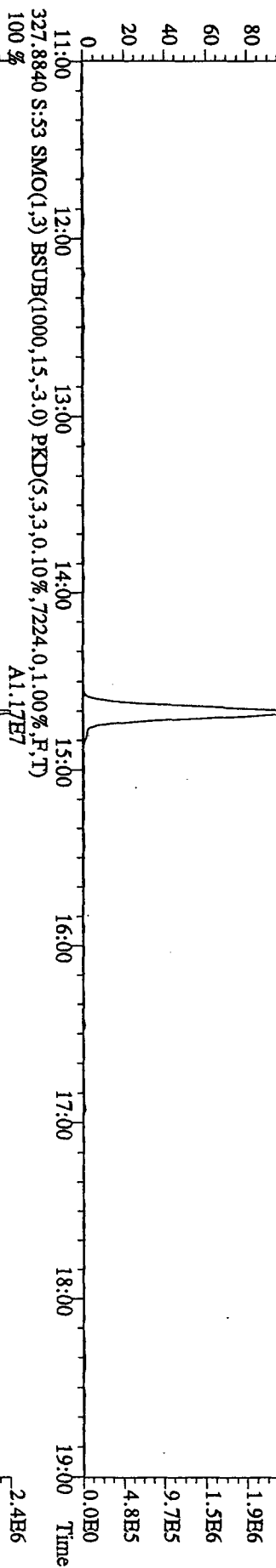
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 05:18:18 GC EI+ Voltage SIR 70SB
 Sample#53 Text:ST1027E :CS3 10DXN461 Exp:DB225RES
 303.9016 S:53 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5900.0,1.00%,F,T)
 100 %



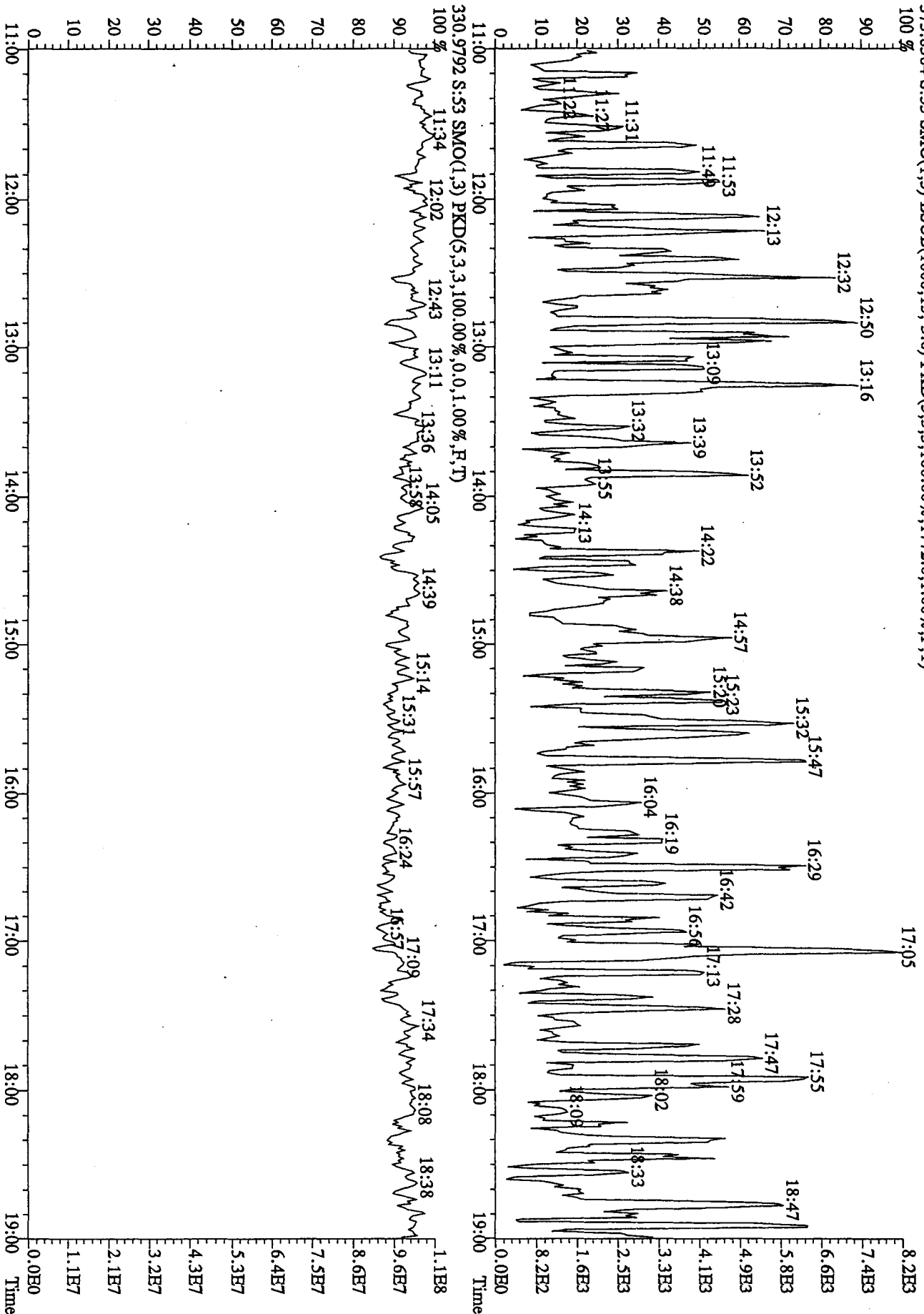
File: 27OC10A5D2 #1-1242 Acq: 29-OCT-2010 05:18:18 GC EI+ Voltage SIR 70SE
 Sample# 53 Text: ST1027E :CS3 10DXN461 Exp: DB225RHS
 319.8965 S:53 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5756.0,1.00%,F,T) A1.25E7
 100%



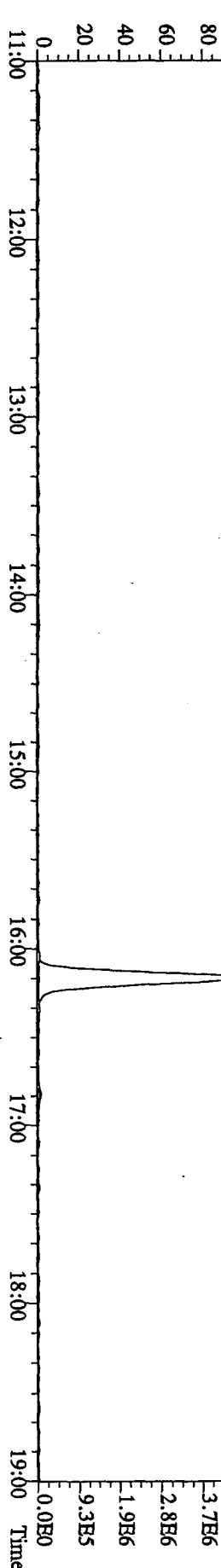
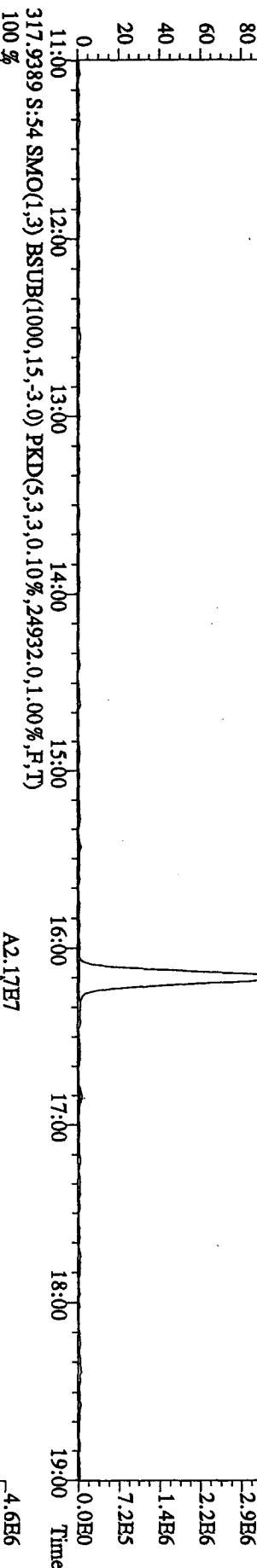
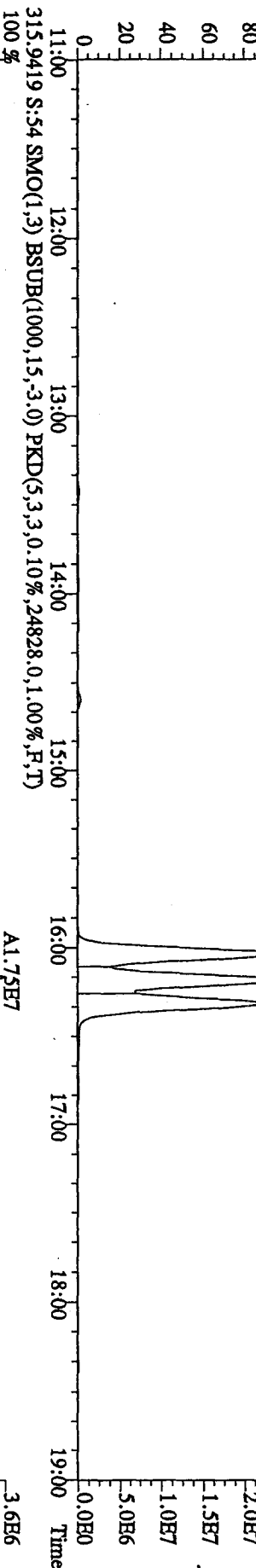
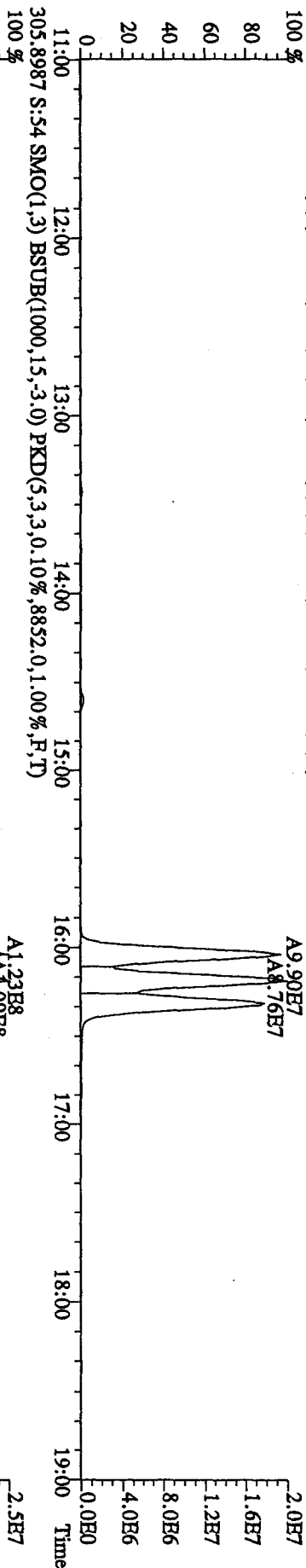
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 05:18:18 GC HI+ Voltage SIR 70SE
 Sample#53 Text:ST1027E :CS3 10DXN461 Exp:DH225RBS
 327.8840 S:53 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,7224.0,1.00%,F,T)
 100 % A1.17E7



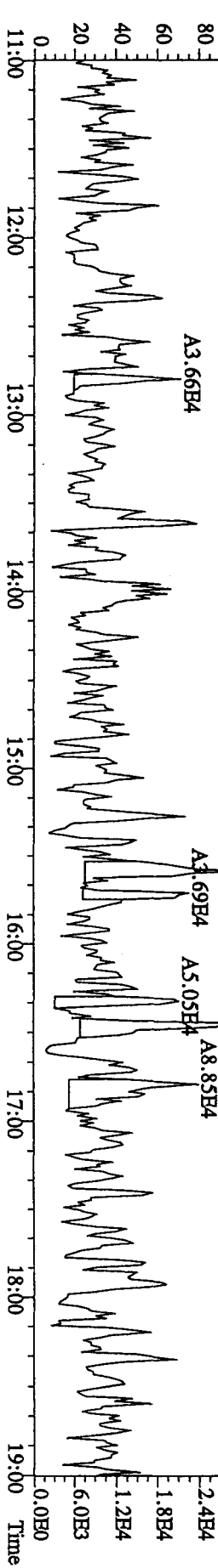
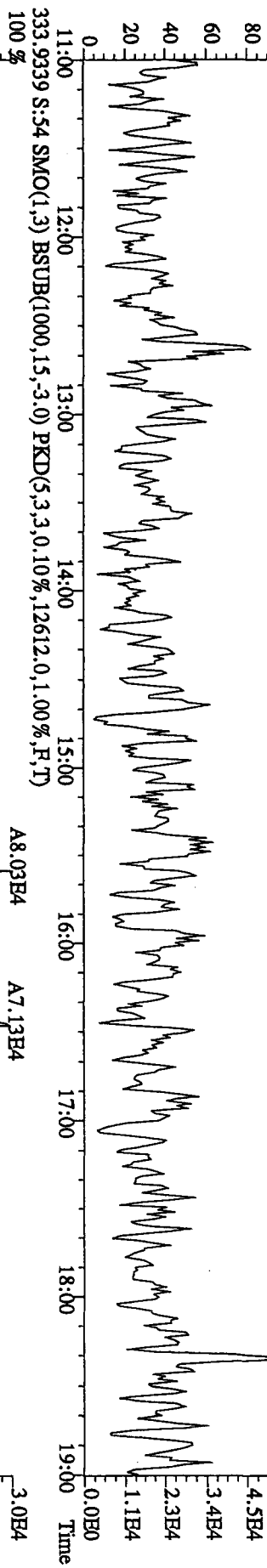
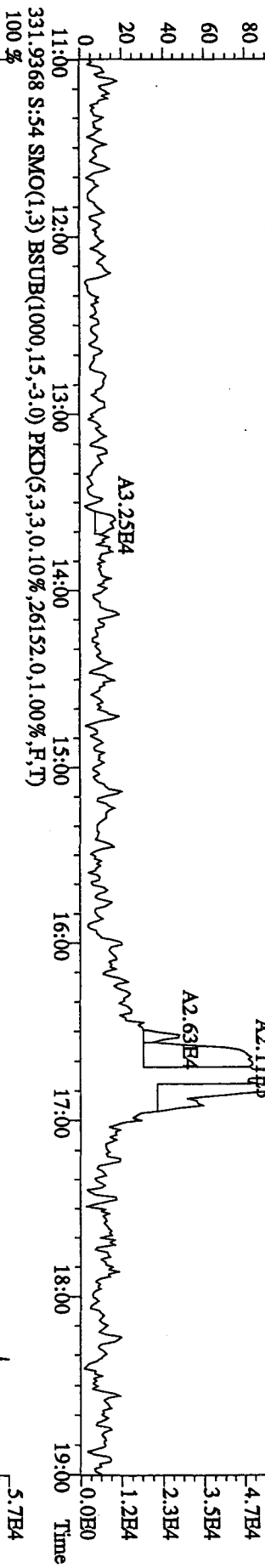
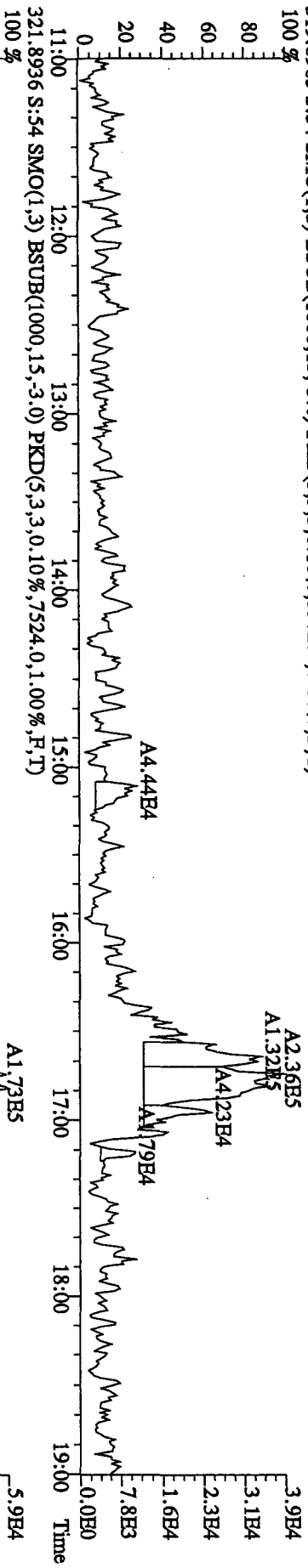
File: 270C10A5D2 #1-1242 Acq: 29-OCT-2010 05:18:18 GC BI + Voltage SIR 70SE
 Sample# 53 Text: ST1027E : CS3 10DXN461 Exp: DB225RES
 375.8364 S: 53 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.772,0,1.00%,F,T)



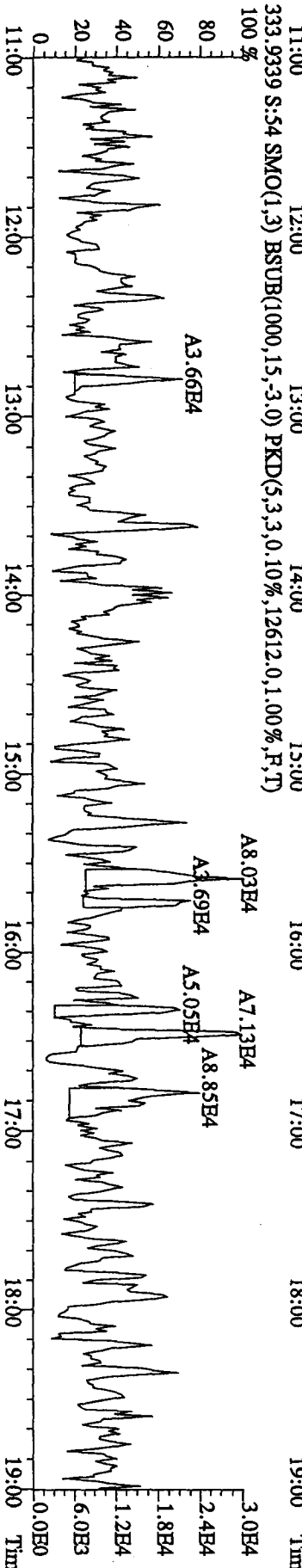
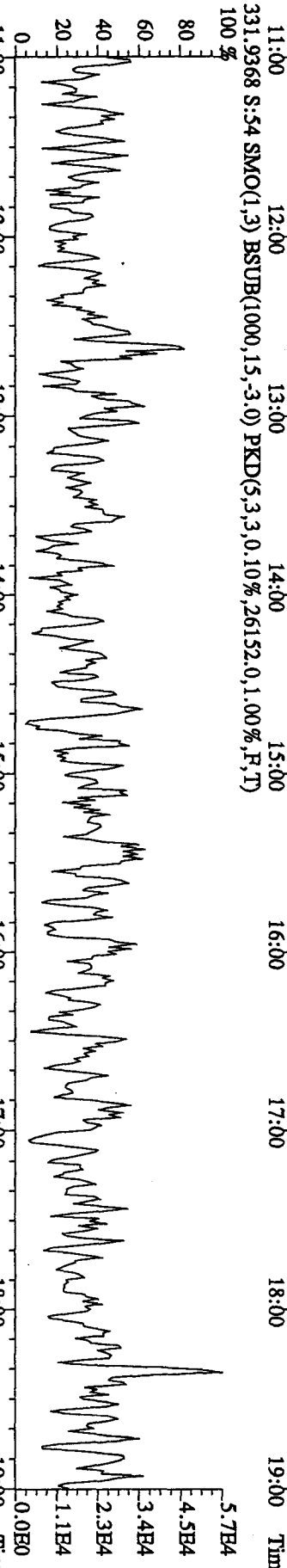
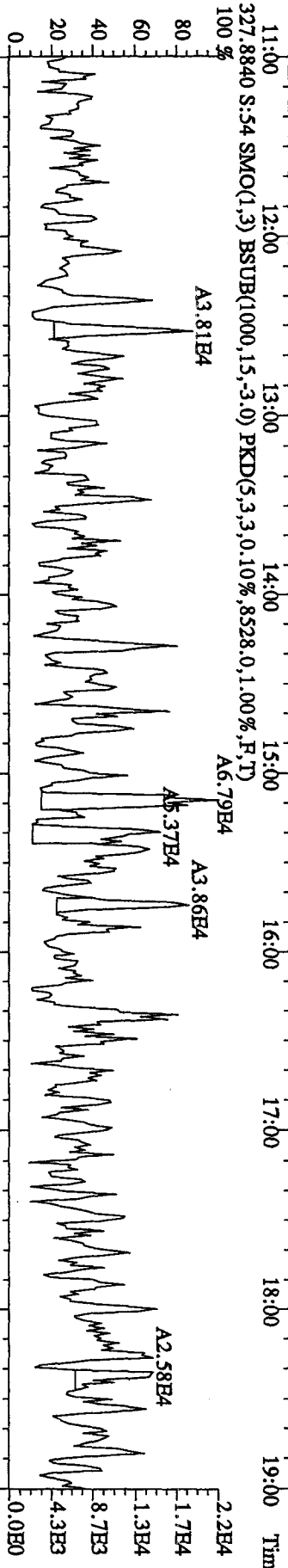
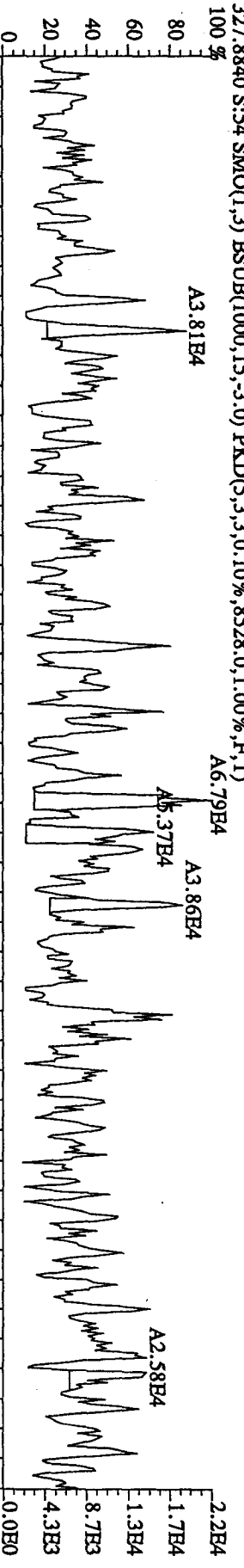
File: 270C10A5D2 #1-1242 Acq: 29-OCT-2010 05:54:33 GC HI+ Voltage SIR 70SB
 Sample#54 Text: CP1027D : DB-225 CPM 3732-06 Exp: DB225RHS
 303.9016 S:54 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6912,0,1,00%,F,T)
 100 %



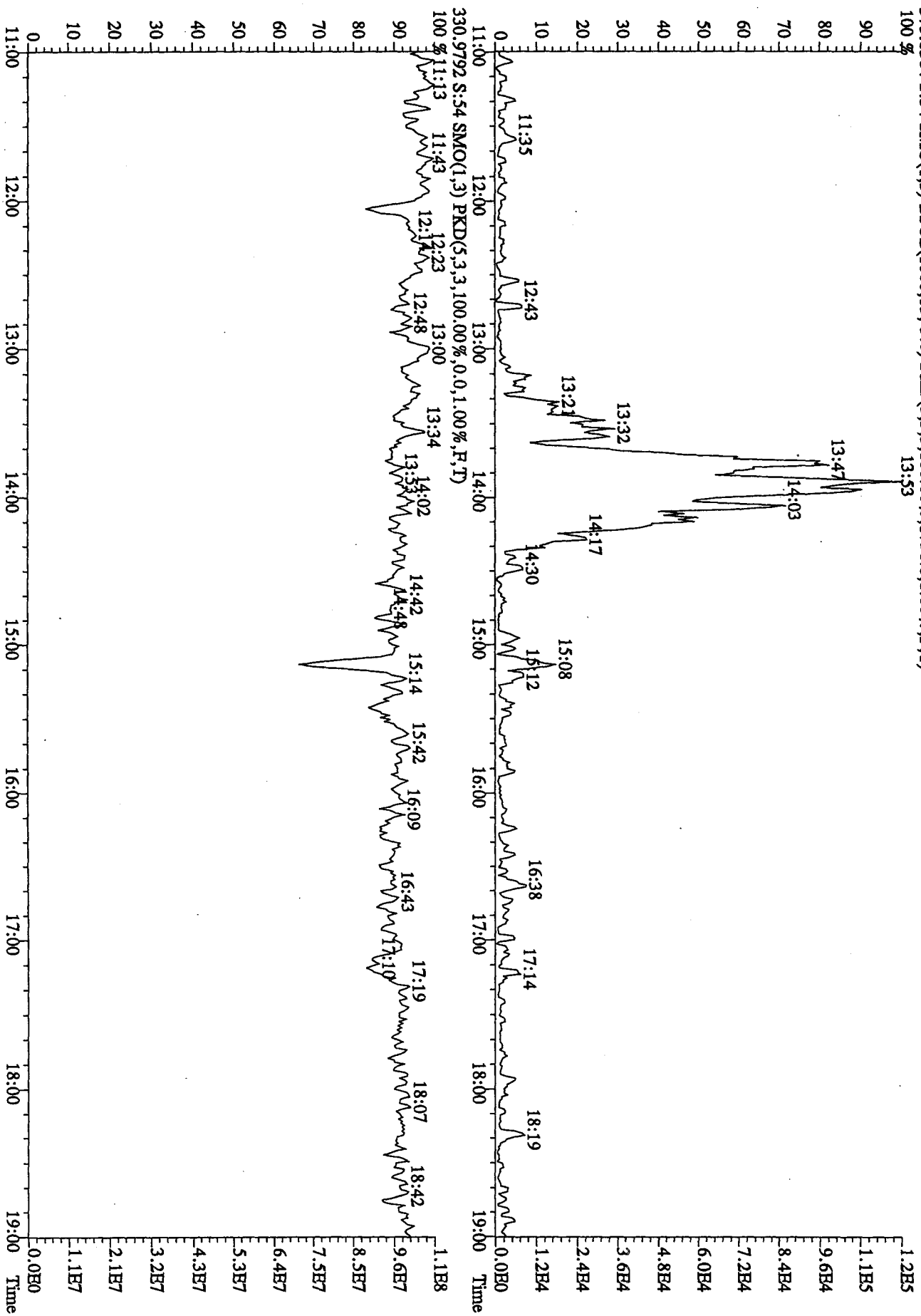
File:27OCT10A5D2 #1-1242 Acq:29-OCT-2010 05:54:33 GC BI + Voltage SIR 70SB
 Sample#54 Text:CP1027D :DB-225 CP5M 3732-06 Exp:DB225RBS
 319.8965 S:54 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5972.0,1.00%,F,T)



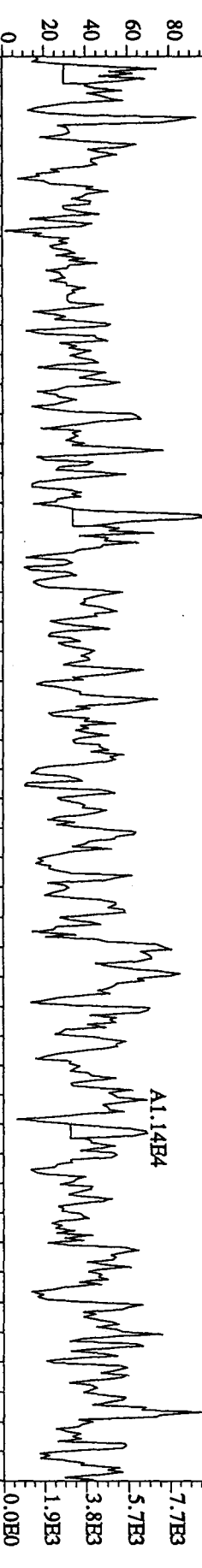
File:270C10A5D2 #1-1242 Acq:29-OCT-2010 05:54:33 GC EI+ Voltage SIR 70SE
 Sample#54 Text:CP1077D :DB-225 CPSM 3732-06 Exp:DB225RES



File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 05:54:33 GC HI + Voltage SIR 70SB
 Sample#54 Text:CP1027D :DB-225 CP5M 3732-06 Exp:DB225RES
 375.8364 S:54 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.796,0.1,1.00%,F,T)
 100 % 13:53



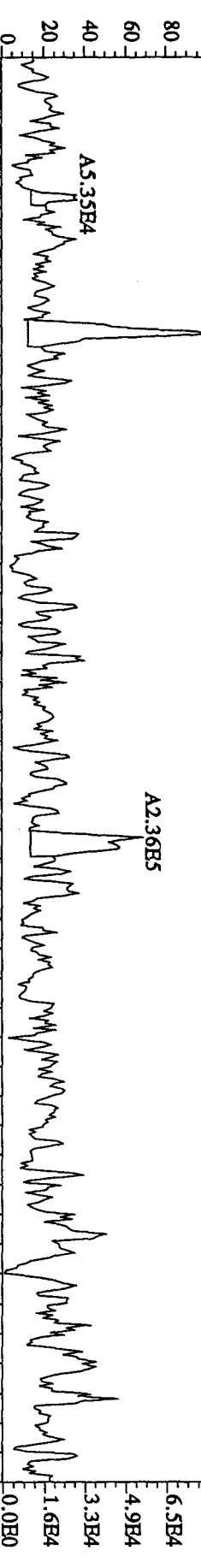
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 06:30:49 GC EI+ Voltage SIR 70SE
 Sample#55 Text:SB1027D :Solvent Blank Exp:DB225RBS
 303.9016 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4912.0,1.00%,F,T)
 100% A1.90E4



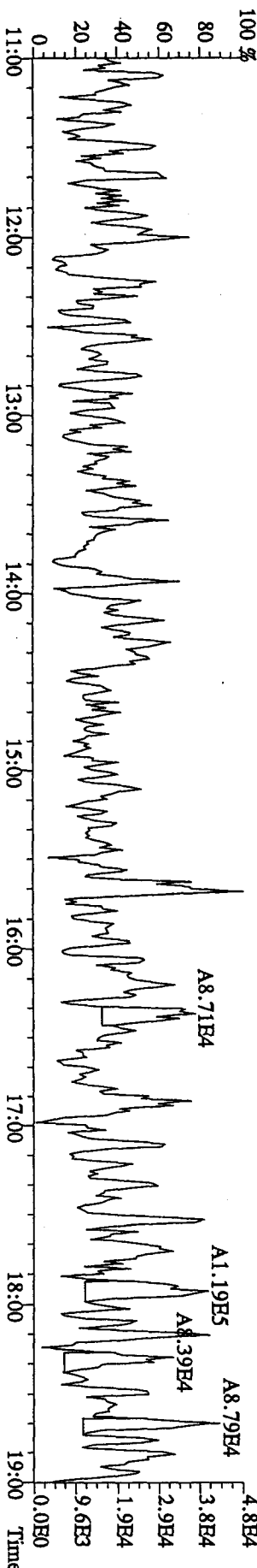
305.8987 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6476.0,1.00%,F,T)
 100% A2.61E4



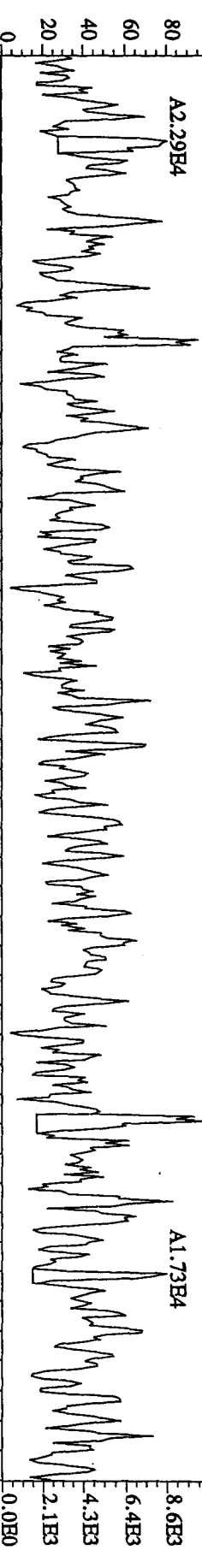
315.9419 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20636.0,1.00%,F,T)
 100% A3.00E5



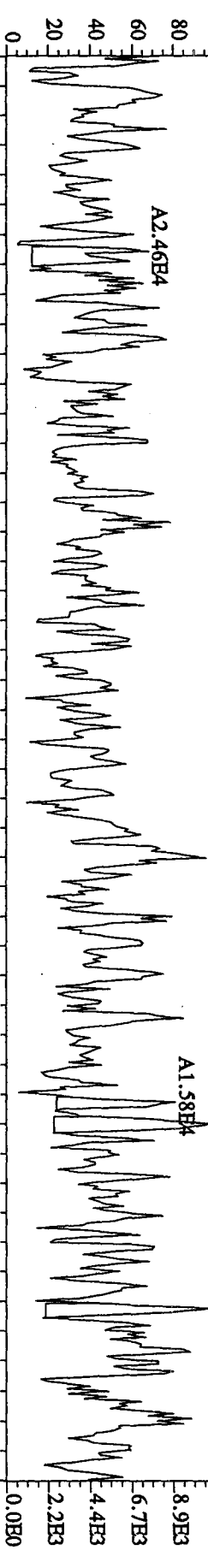
317.9389 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22548.0,1.00%,F,T)
 100%



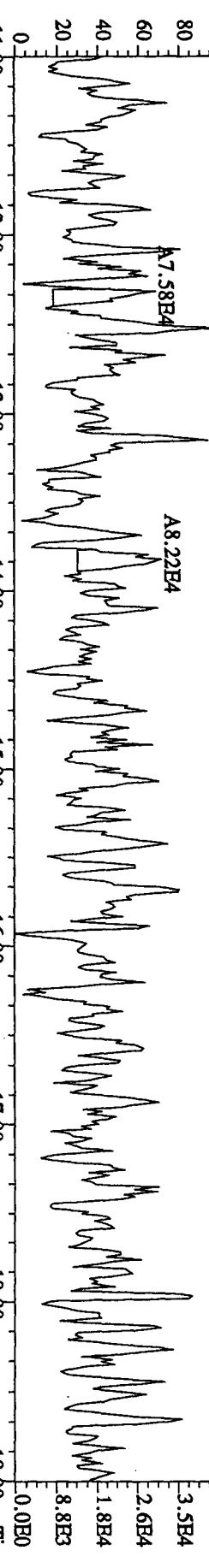
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 06:30:49 GC BI+ Voltage SIR 70SE
 Sample#55 Text:SB1077D :Solvent Blank Exp:DB225RES
 319.8965 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5432.0,1.00%,F,T)
 100 %



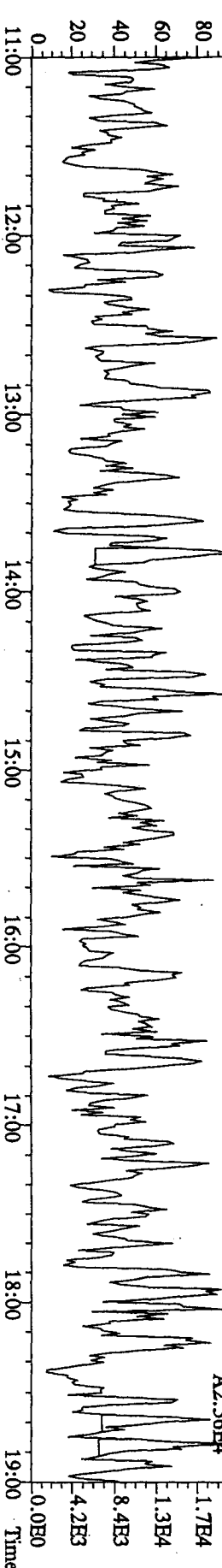
321.8936 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6136.0,1.00%,F,T)
 100 %



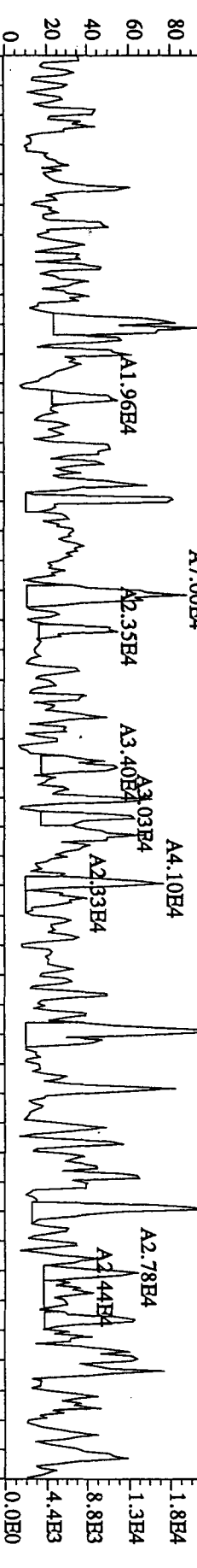
331.9368 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22364.0,1.00%,F,T)
 100 %



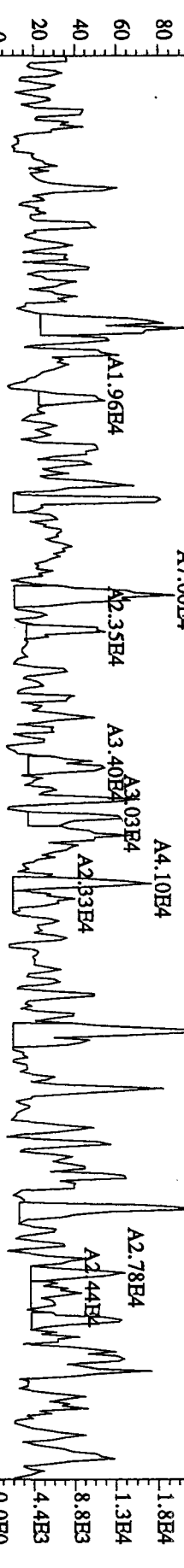
333.9339 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11648.0,1.00%,F,T)
 100 %



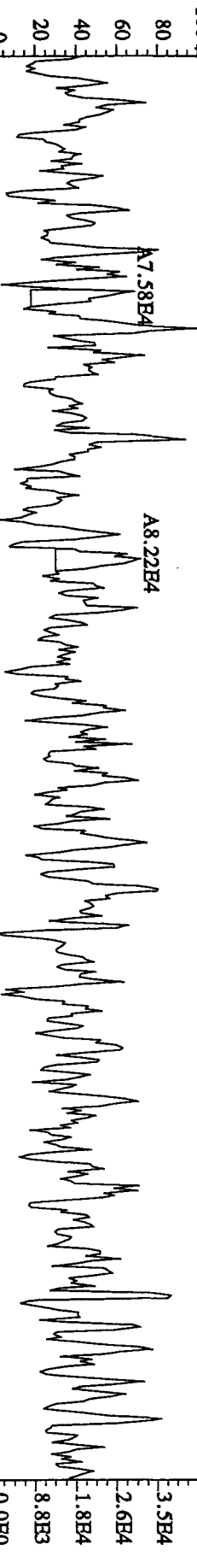
File:270C10A5D2 #1-1242 Acq:29-OCT-2010 06:30:49 GC EI+ Voltage SIR 70SE
Sample#55 Text:SB1027D :Solvent Blank Exp:DB225RBS
327.8840 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6760,0,1,00%,F,T)
100 % A6.68B4



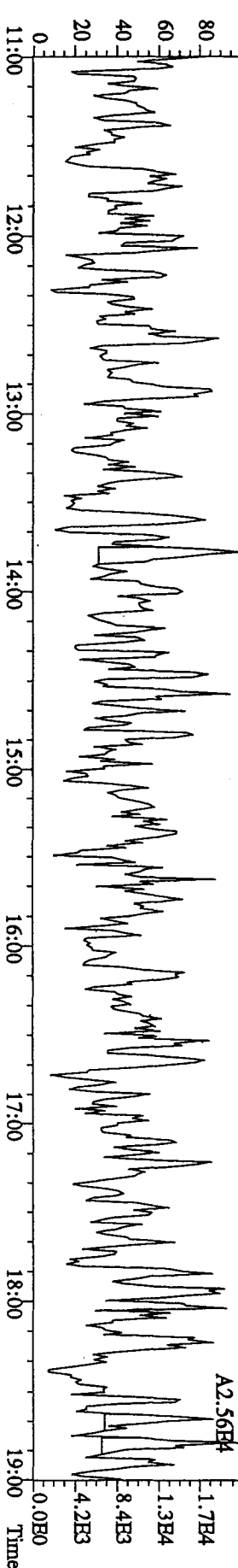
327.8840 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6760,0,1,00%,F,T)
100 % A6.68B4 A7.00B4 A8.43B4 A5.64B4



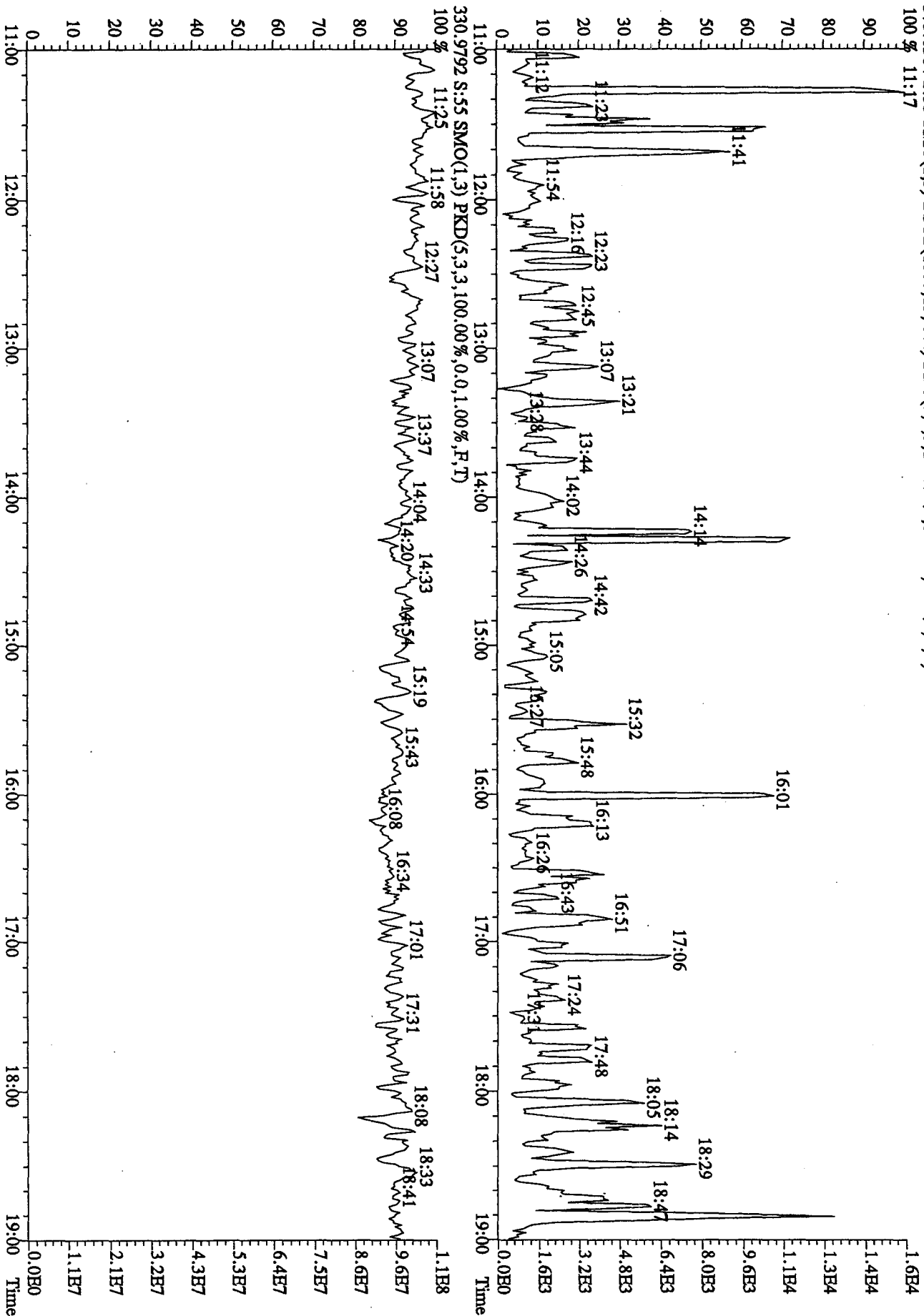
331.9368 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,22364,0,1,00%,F,T)
100 % A7.58B4 A8.22B4



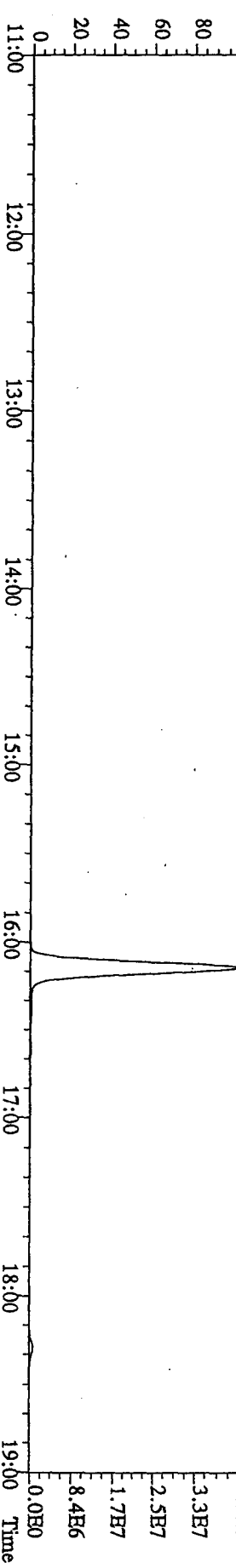
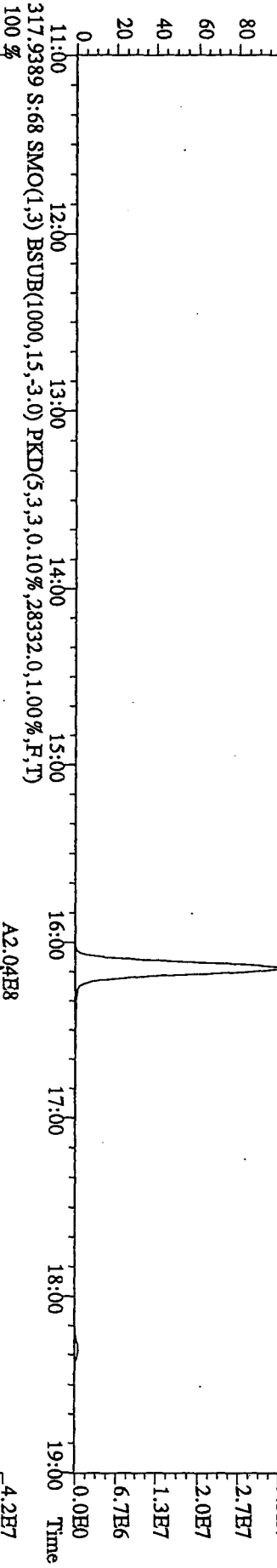
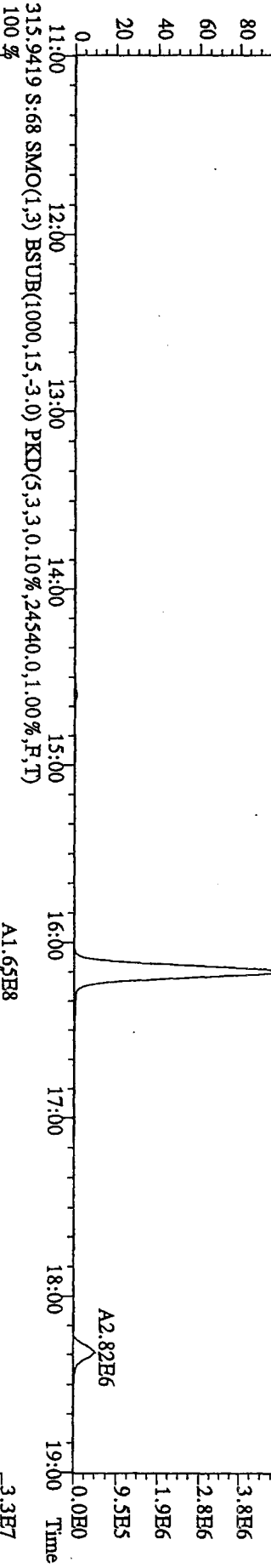
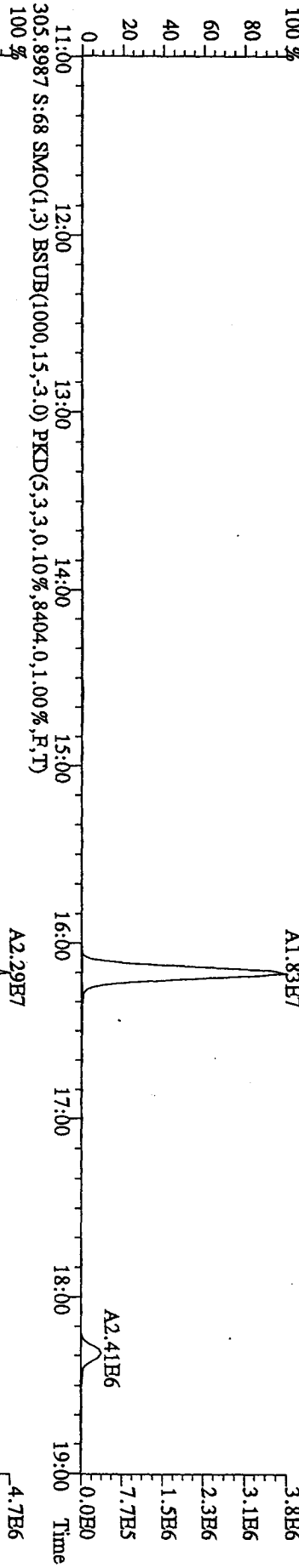
333.9339 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11648,0,1,00%,F,T)
100 % A4.76B4 A2.56B4



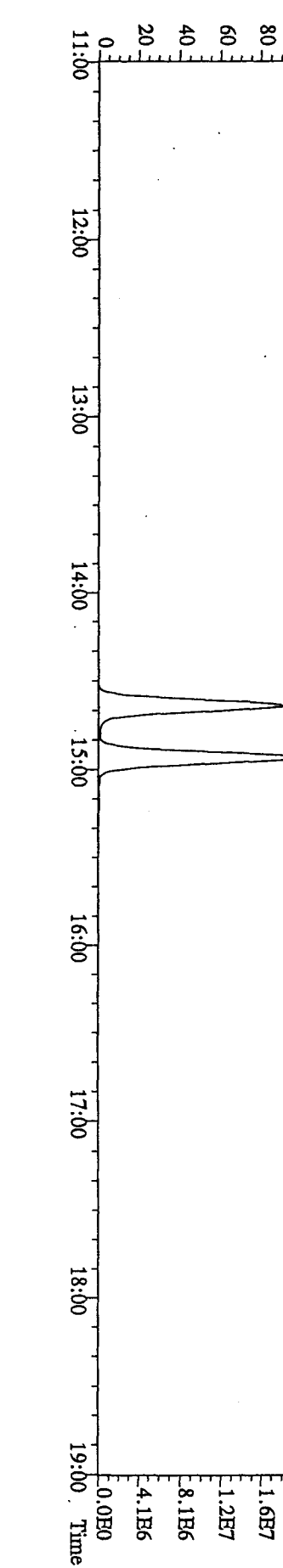
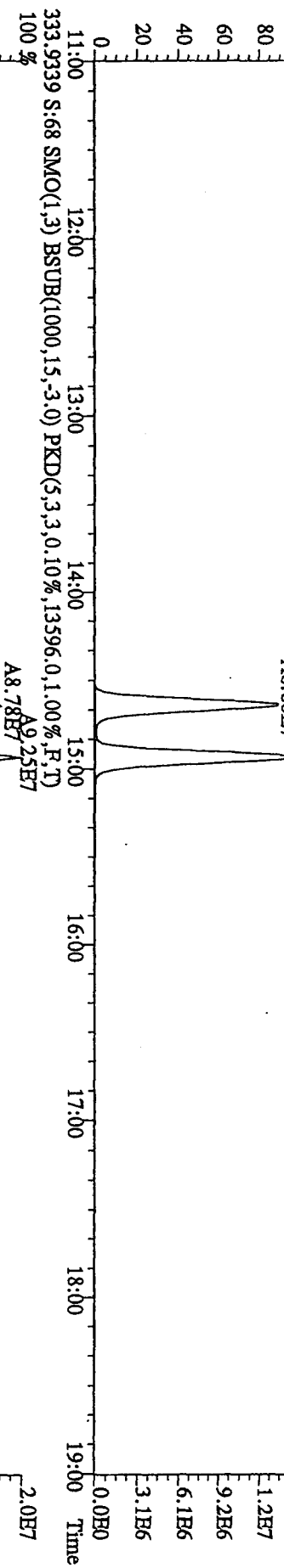
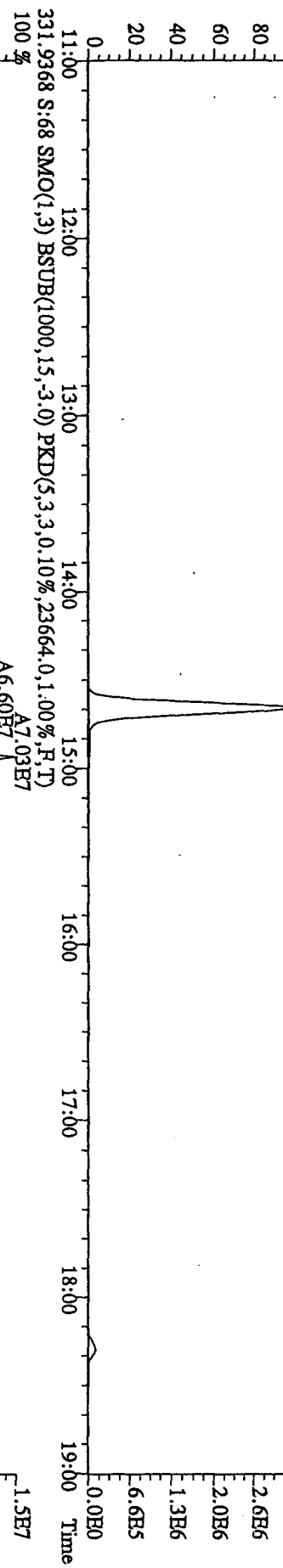
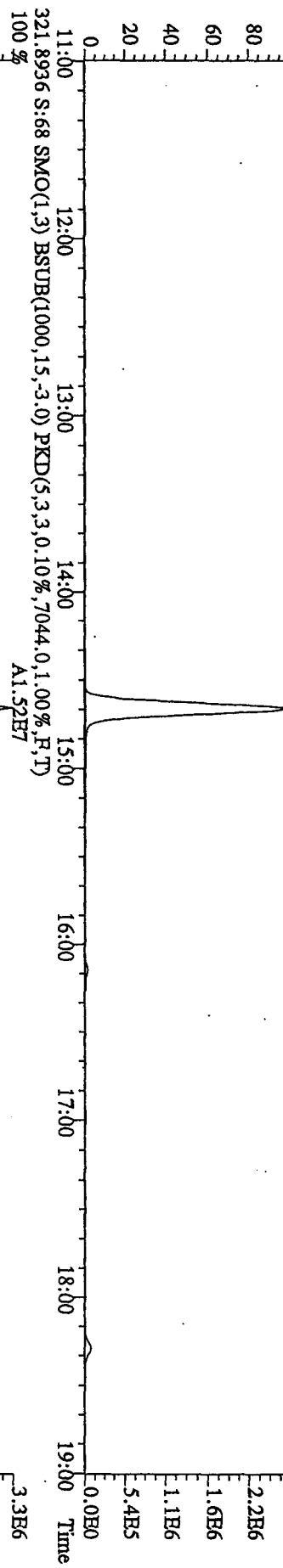
File:27OC10A5D2 #1-1242 Acq:29-OCT-2010 06:30:49 GC EI+ Voltage SIR 70SB
 Sample#55 Text:SB1027D :Solvent Blank Exp:DB225RBS
 375.8364 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1684.0,1.00%,F,T)
 100 % 11:17



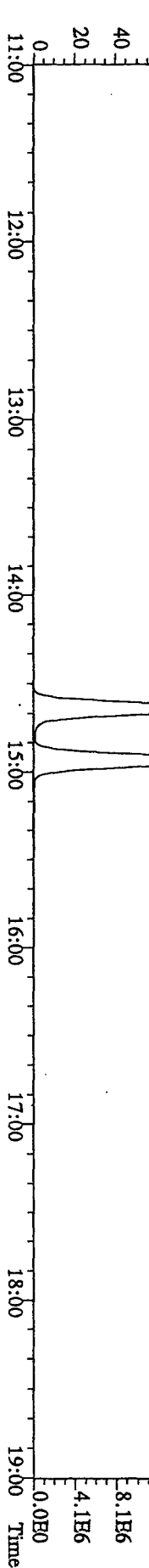
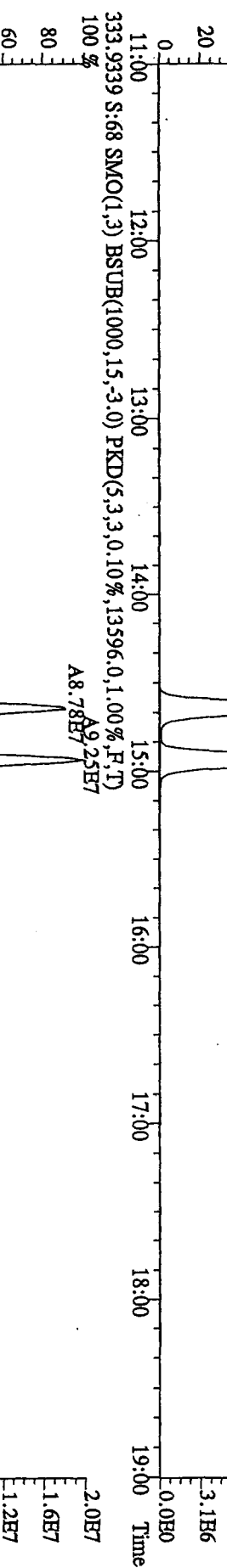
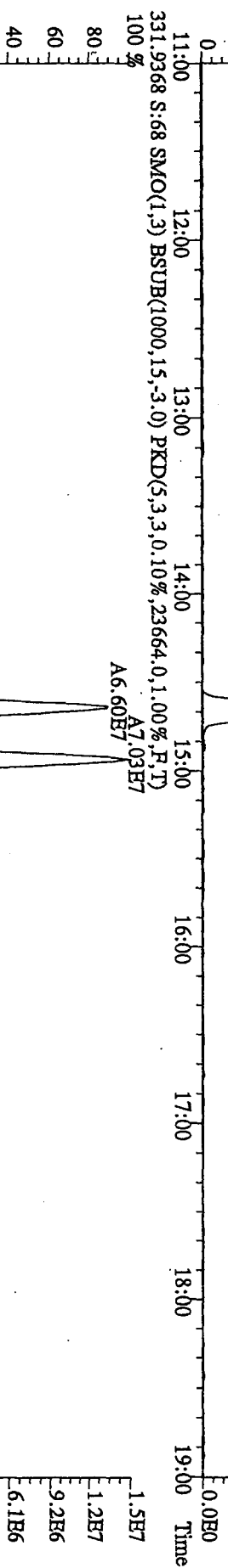
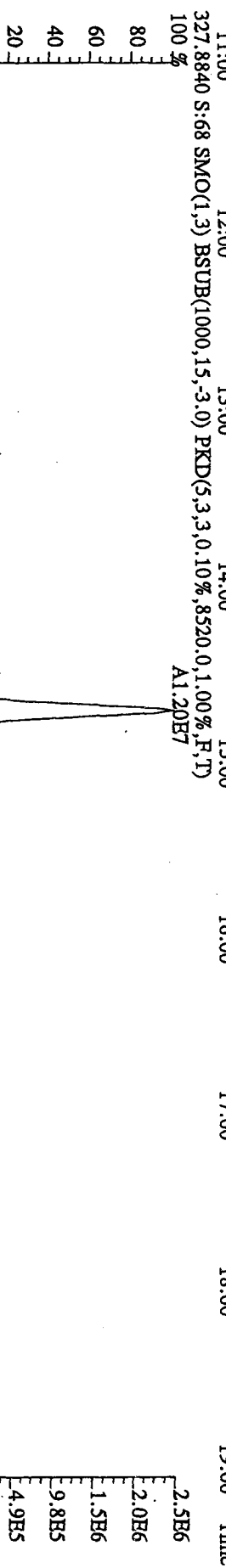
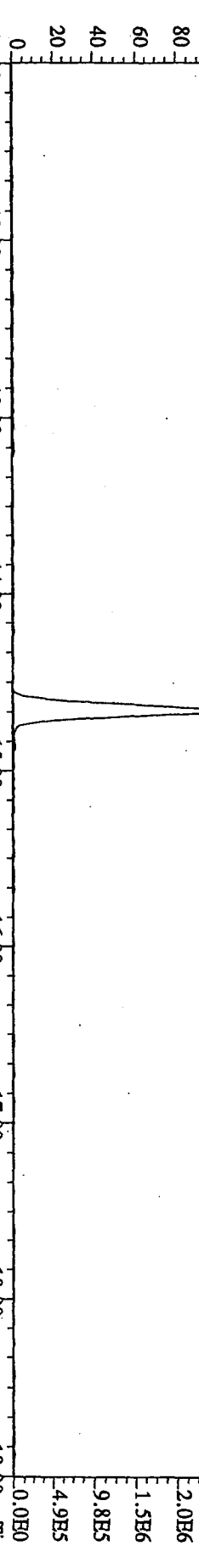
File:27OC10A5D2 #1-1241 Acq:29-OCT-2010 14:21:13 GC:EI+ Voltage:50V SIR 70SE
 Sample#68 Text:ST1027F :CS3 10DXN461 Exp:DB225RES
 303.9016 S:68 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6048,0.1,00%,F,T)



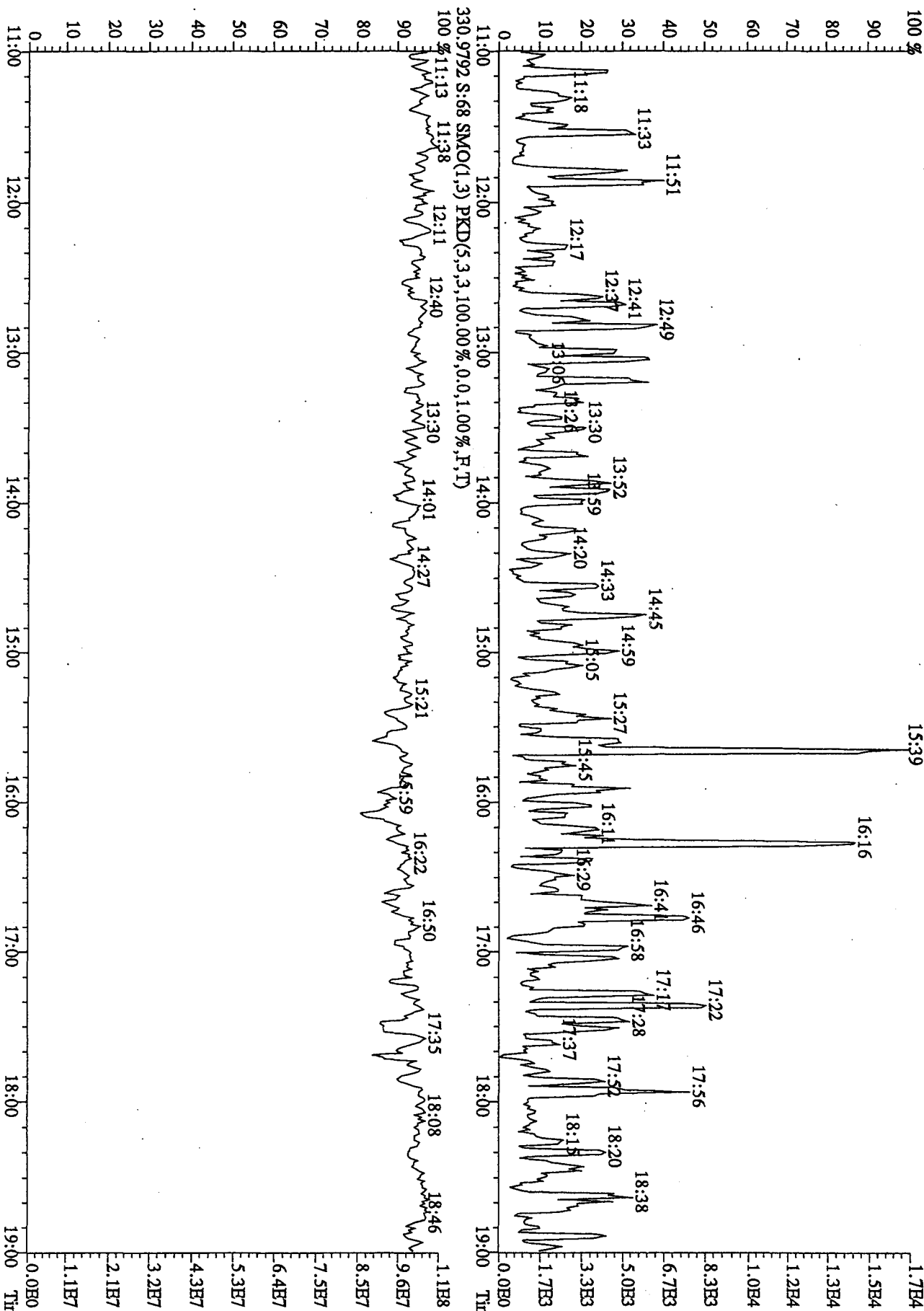
File:27OC10A5D2 #1-1241 Acq:29-OCT-2010 14:21:13 GC EI+ Voltage SIR 70SE
 Sample#68 Text:ST1027F :CS3 10DXN461 Exp:DB225RES
 319.8965 S:68 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T) A1.26E7



File:27OC10A5D2 #1-1241 Acq:29-OCT-2010 14:21:13 GC EI+ Voltage SIR 70SE
 Sample#68 Text:ST1027F :C53 10DXN461 Exp:DB225RBS
 327.8840 S:68 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8520,0,1,00%,F,T)
 100% A1.20E7



File: 270C10A5D2 #1-1241 Acq: 29-OCT-2010 14:21:13 GC HI + Voltage SIR 70SB
 Sample# 68 Text: ST1027F : CS3 10DXN461 Exp: DB25RBS
 375.8364 S: 68 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1840,0,1.00%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID TO9

Associated ICAL TO9 072110 4D5

Column ID DB5

Instrument ID 4D5

STD ID ST1028C, ST1028D

STD Solution 10DXN461

Analyzed by AS

Date Analyzed 10-28-10

Std. Pkg. By AS

Date Std. Pkg. Assembled 10-29-10

Std. Pkg. Reviewed By NK

Date Std. Pkg. Reviewed 10-29-10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓
Ending Standard present?	✓	✓
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: ST1028C File text: ST1028C :CS3 10DXN461
 Run #13 Filename 28OC104D5 S: 30 I: 1
 Acquired: 29-OCT-10 07:09:39 Processed: 29-OCT-10 09:04:15
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	69454466	0.80 y	20:02	-	100.00	-	n
13C-2,3,7,8-TCDF	84140020	0.82 y	19:26	1.21	100.00	-1.5	n
2,3,7,8-TCDF	8886367	0.76 y	19:27	1.06	10.00	6.2	n
Total TCDF	9069143	0.26 n	16:51	1.06	10.00	6.2	n
13C-2,3,7,8-TCDD	64889190	0.80 y	20:15	0.93	100.00	3.2	n
2,3,7,8-TCDD	6617552	0.82 y	20:17	1.02	10.00	3.7	n
Total TCDD	6698814	1.39 n	18:59	1.02	10.00	3.7	n
37Cl-2,3,7,8-TCDD	8452341	1.00 y	20:16	1.30	10.00	-1.8	n
13C-1,2,3,7,8-PeCDF	63792632	1.54 y	25:19	0.92	100.00	4.8	n
1,2,3,7,8-PeCDF	36800376	1.53 y	25:21	1.15	50.00	7.2	n
2,3,4,7,8-PeCDF	36178487	1.53 y	26:54	1.13	50.00	8.5	n
Total F2 PeCDF	73907936	1.78 n	23:46	1.14	100.00	7.8	n
Total F1 PeCDF	8460	0.25 n	15:48	1.14	100.00	7.8	n
13C-1,2,3,7,8-PeCDD	47670778	1.55 y	27:44	0.69	100.00	3.9	n
1,2,3,7,8-PeCDD	24105343	1.45 y	27:46	1.01	50.00	9.3	n
Total PeCDD	24174137	1.45 y	27:46	1.01	50.00	9.3	n
13C-1,2,3,7,8,9-HxCDD	49381080	1.29 y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	51447356	0.51 y	32:17	1.04	100.00	-0.3	n
1,2,3,4,7,8-HxCDF	31893023	1.16 y	32:18	1.24	50.00	1.9	n
1,2,3,6,7,8-HxCDF	35316072	1.16 y	32:24	1.37	50.00	7.1	n
2,3,4,6,7,8-HxCDF	33556874	1.16 y	32:55	1.30	50.00	5.8	n
1,2,3,7,8,9-HxCDF	28467472	1.14 y	33:33	1.11	50.00	0.8	n
Total HxCDF	129295705	1.28 y	31:18	1.26	200.00	4.0	n
13C-1,2,3,6,7,8-HxCDD	46642098	1.28 y	33:07	0.94	100.00	13.7	n
1,2,3,4,7,8-HxCDD	22341101	1.24 y	33:04	0.96	50.00	-7.6	n
1,2,3,6,7,8-HxCDD	26380434	1.29 y	33:08	1.13	50.00	-2.7	n
1,2,3,7,8,9-HxCDD	25494863	1.26 y	33:23	1.09	50.00	-7.5	n
Total HxCDD	74377456	1.24 y	33:04	1.06	150.00	-5.9	n
13C-1,2,3,4,6,7,8-HpCDF	41003811	0.43 y	34:52	0.83	100.00	-8.8	n
1,2,3,4,6,7,8-HpCDF	29965449	1.04 y	34:53	1.46	50.00	8.6	n
1,2,3,4,7,8,9-HpCDF	24982774	1.05 y	36:03	1.22	50.00	11.4	n
Total HpCDF	54948223	1.04 y	34:53	1.34	100.00	9.9	n
13C-1,2,3,4,6,7,8-HpCDD	38295932	1.04 y	35:41	0.78	100.00	-6.2	n
1,2,3,4,6,7,8-HpCDD	20966530	1.04 y	35:42	1.09	50.00	2.2	n
Total HpCDD	21107330	1.01 y	35:08	1.09	50.00	2.2	n
13C-OCDD	55476794	0.89 y	38:16	0.56	200.00	-9.4	n
OCDF	41142306	0.89 y	38:23	1.48	100.00	8.2	n
OCDD	34491339	0.91 y	38:17	1.24	100.00	3.7	n

Run text: ST1028D File text: ST1028D :CS3 10DXN461
 Run #19 Filename 28OC104D5 S: 39 I: 1
 Acquired: 29-OCT-10 13:51:59 Processed: 29-OCT-10 14:48:29
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	68984542	0.80 y	20:02	-	100.00	-	n
13C-2,3,7,8-TCDF	79905392	0.81 y	19:26	1.16	100.00	-5.8	n
2,3,7,8-TCDF	8671132	0.75 y	19:27	1.09	10.00	9.1	n
Total TCDF	8798859	0.43 n	18:23	1.09	10.00	9.1	n
13C-2,3,7,8-TCDD	64260346	0.78 y	20:15	0.93	100.00	2.9	n
2,3,7,8-TCDD	6270532	0.76 y	20:16	0.98	10.00	-0.8	n
Total TCDD	6289946	0.71 y	18:58	0.98	10.00	-0.8	n
37Cl-2,3,7,8-TCDD	8378253	1.00 y	20:16	1.30	10.00	-1.7	n
13C-1,2,3,7,8-PeCDF	63685906	1.60 y	25:20	0.92	100.00	5.4	n
1,2,3,7,8-PeCDF	36391874	1.51 y	25:21	1.14	50.00	6.2	n
2,3,4,7,8-PeCDF	33947898	1.55 y	26:55	1.07	50.00	2.0	n
Total F2 PeCDF	71394973	1.50 y	23:47	1.10	100.00	4.1	n
Total F1 PeCDF	49541	0.28 n	15:41	1.10	100.00	4.1	n
13C-1,2,3,7,8-PeCDD	46709484	1.53 y	27:43	0.68	100.00	2.5	n
1,2,3,7,8-PeCDD	23858391	1.49 y	27:46	1.02	50.00	10.4	n
Total PeCDD	23971709	1.11 n	25:37	1.02	50.00	10.4	n
13C-1,2,3,7,8,9-HxCDD	47854354	1.31 y	33:21	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	48774743	0.49 y	32:16	1.02	100.00	-2.4	n
1,2,3,4,7,8-HxCDF	30314378	1.16 y	32:17	1.24	50.00	2.1	n
1,2,3,6,7,8-HxCDF	35277655	1.14 y	32:24	1.45	50.00	12.9	n
2,3,4,6,7,8-HxCDF	32305027	1.14 y	32:55	1.32	50.00	7.4	n
1,2,3,7,8,9-HxCDF	27359470	1.19 y	33:32	1.12	50.00	2.2	n
Total HxCDF	125323048	1.21 y	31:16	1.28	200.00	6.3	n
13C-1,2,3,6,7,8-HxCDD	43110806	1.29 y	33:06	0.90	100.00	8.4	n
1,2,3,4,7,8-HxCDD	21622440	1.25 y	33:03	1.00	50.00	-3.3	y
1,2,3,6,7,8-HxCDD	26014700	1.28 y	33:07	1.21	50.00	3.8	y
1,2,3,7,8,9-HxCDD	25723300	1.26 y	33:22	1.19	50.00	1.0	n
Total HxCDD	73360440	1.25 y	33:03	1.13	150.00	0.6	y
13C-1,2,3,4,6,7,8-HpCDF	40504015	0.43 y	34:53	0.85	100.00	-7.0	n
1,2,3,4,6,7,8-HpCDF	29864619	1.04 y	34:53	1.47	50.00	9.6	n
1,2,3,4,7,8,9-HpCDF	23822355	1.05 y	36:02	1.18	50.00	7.6	n
Total HpCDF	53686974	1.04 y	34:53	1.33	100.00	8.7	n
13C-1,2,3,4,6,7,8-HpCDD	38390342	1.03 y	35:42	0.80	100.00	-2.9	n
1,2,3,4,6,7,8-HpCDD	20522393	1.03 y	35:43	1.07	50.00	-0.2	n
Total HpCDD	20669928	1.04 y	35:08	1.07	50.00	-0.2	n
13C-OCDD	52641654	0.87 y	38:15	0.55	200.00	-11.3	n
OCDF	38124502	0.90 y	38:23	1.45	100.00	5.7	n
OCDD	31945884	0.92 y	38:16	1.21	100.00	1.2	n

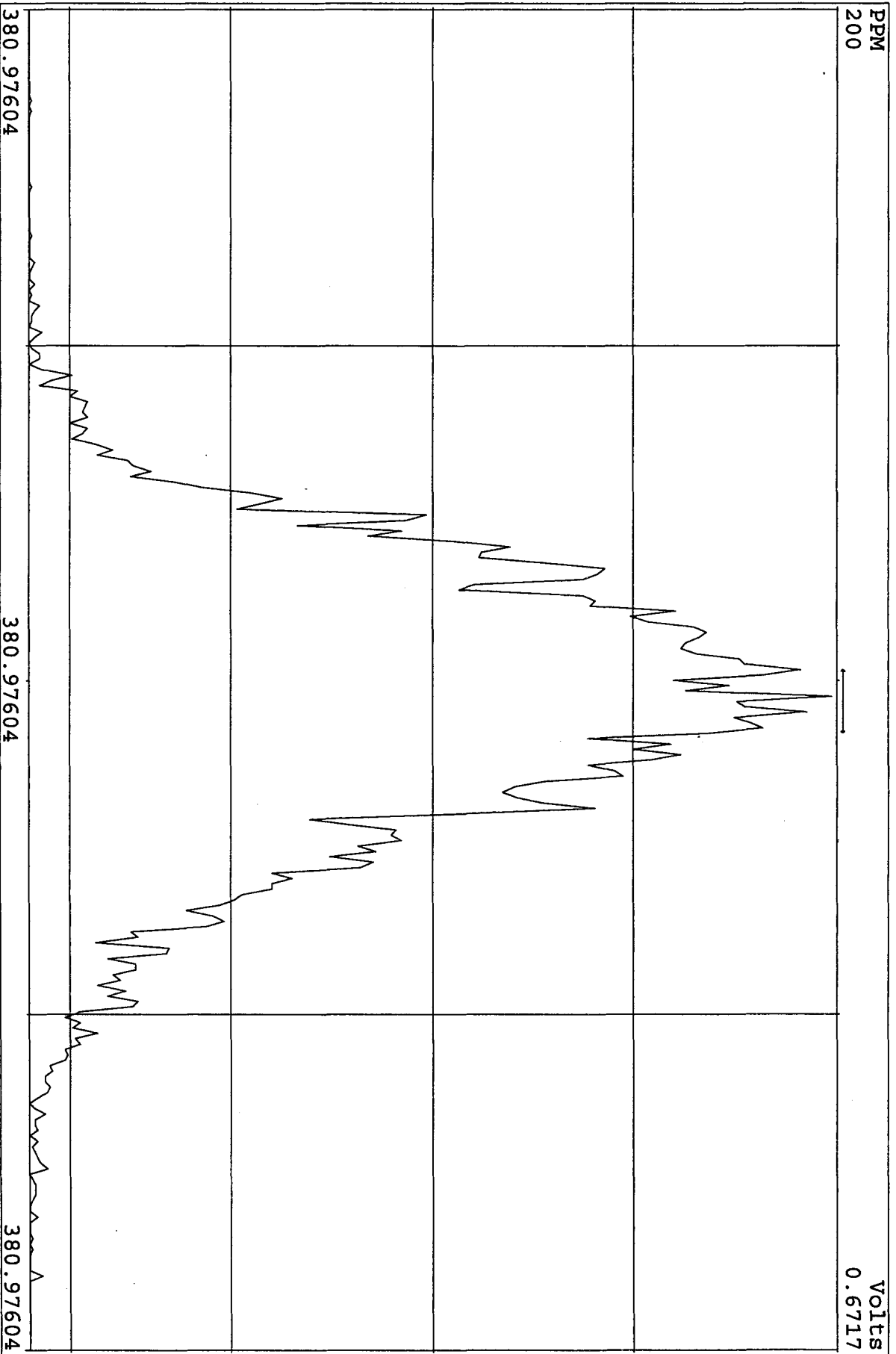
Run text: ST1028D File text: ST1028D :CS3 10DXN461
 Run #19 Filename 28OC104D5 S: 39 I: 1
 Acquired: 29-OCT-10 13:51:59 Processed: 29-OCT-10 14:48:29
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	68984542	0.80 y	20:02	-	100.00	-	n
13C-2,3,7,8-TCDF	79905392	0.81 y	19:26	1.16	100.00	-5.8	n
2,3,7,8-TCDF	8671132	0.75 y	19:27	1.09	10.00	9.1	n
Total TCDF	8798859	0.43 n	18:23	1.09	10.00	9.1	n
13C-2,3,7,8-TCDD	64260346	0.78 y	20:15	0.93	100.00	2.9	n
2,3,7,8-TCDD	6270532	0.76 y	20:16	0.98	10.00	-0.8	n
Total TCDD	6289946	0.71 y	18:58	0.98	10.00	-0.8	n
37Cl-2,3,7,8-TCDD	8378253	1.00 y	20:16	1.30	10.00	-1.7	n
13C-1,2,3,7,8-PeCDF	63685906	1.60 y	25:20	0.92	100.00	5.4	n
1,2,3,7,8-PeCDF	36391874	1.51 y	25:21	1.14	50.00	6.2	n
2,3,4,7,8-PeCDF	33947898	1.55 y	26:55	1.07	50.00	2.0	n
Total F2 PeCDF	71394973	1.50 y	23:47	1.10	100.00	4.1	n
Total F1 PeCDF	49541	0.28 n	15:41	1.10	100.00	4.1	n
13C-1,2,3,7,8-PeCDD	46709484	1.53 y	27:43	0.68	100.00	2.5	n
1,2,3,7,8-PeCDD	23858391	1.49 y	27:46	1.02	50.00	10.4	n
Total PeCDD	23971709	1.11 n	25:37	1.02	50.00	10.4	n
13C-1,2,3,7,8,9-HxCDD	47854354	1.31 y	33:21	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	48774743	0.49 y	32:16	1.02	100.00	-2.4	n
1,2,3,4,7,8-HxCDF	30314378	1.16 y	32:17	1.24	50.00	2.1	n
1,2,3,6,7,8-HxCDF	35277655	1.14 y	32:24	1.45	50.00	12.9	n
2,3,4,6,7,8-HxCDF	32305027	1.14 y	32:55	1.32	50.00	7.4	n
1,2,3,7,8,9-HxCDF	27359470	1.19 y	33:32	1.12	50.00	2.2	n
Total HxCDF	125323048	1.21 y	31:16	1.28	200.00	6.3	n
13C-1,2,3,6,7,8-HxCDD	43110806	1.29 y	33:06	0.90	100.00	8.4	n
1,2,3,4,7,8-HxCDD	20005310	1.45 n	33:03	0.93	50.00	-10.5	n
1,2,3,6,7,8-HxCDD	25775616	1.13 y	33:07	1.20	50.00	2.8	n
1,2,3,7,8,9-HxCDD	25723349	1.26 y	33:22	1.19	50.00	1.0	n
Total HxCDD	71504275	1.45 n	33:03	1.11	150.00	-1.9	n
13C-1,2,3,4,6,7,8-HpCDF	40504015	0.43 y	34:53	0.85	100.00	-7.0	n
1,2,3,4,6,7,8-HpCDF	29864619	1.04 y	34:53	1.47	50.00	9.6	n
1,2,3,4,7,8,9-HpCDF	23822355	1.05 y	36:02	1.18	50.00	7.6	n
Total HpCDF	53686974	1.04 y	34:53	1.33	100.00	8.7	n
13C-1,2,3,4,6,7,8-HpCDD	38390342	1.03 y	35:42	0.80	100.00	-2.9	n
1,2,3,4,6,7,8-HpCDD	20522393	1.03 y	35:43	1.07	50.00	-0.2	n
Total HpCDD	20669928	1.04 y	35:08	1.07	50.00	-0.2	n
13C-OCDD	52641654	0.87 y	38:15	0.55	200.00	-11.3	n
OCDF	38124502	0.90 y	38:23	1.45	100.00	5.7	n
OCDD	31945884	0.92 y	38:16	1.21	100.00	1.2	n

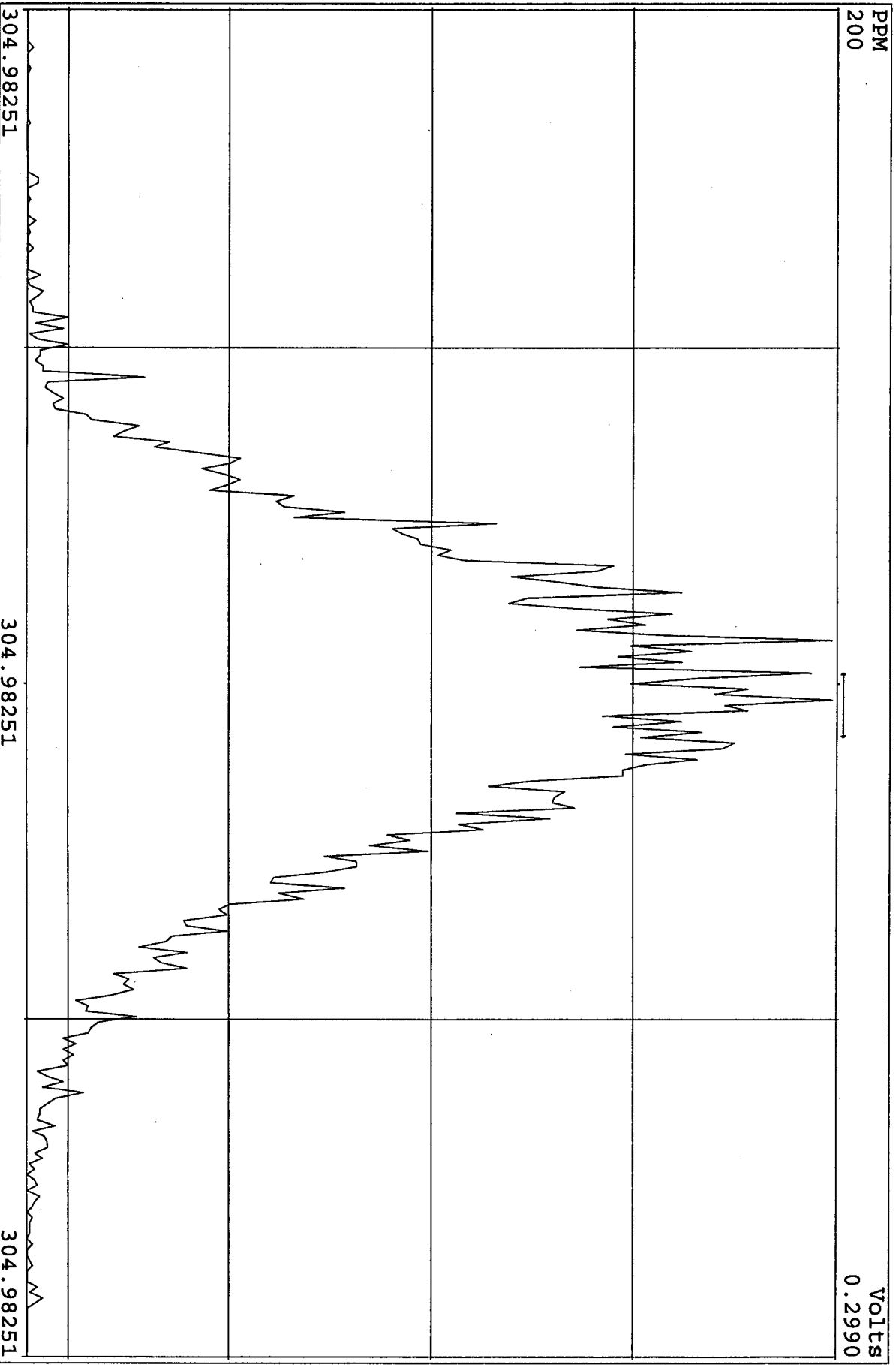
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28OC104D5	2	ST1028	CS3 10DXN461				1.00000	
28OC104D5	3	L8V09-1-AA	G0J210484-11MB	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	4	L77J6-1-AA	G0J080613-13	20	8290/WASTE	83	0.10300	g
28OC104D5	5	L8RK4-1-AC	F0J140526-1LCS))	20	8290/SOLID	91	10.00000	g
28OC104D5	6	ST1028A	CS3 10DXN461				1.00000	
28OC104D5	7	CP1028A	DB-5 CPSM 3732-10				1.00000	
28OC104D5	8	L79L8-1-AA	G0J060523-1MB	20	23/AIR	81	0.33333	SAM
28OC104D5	9	L73G1-1-AC	G0J060523-1	20	23/AIR		0.33333	SAM
28OC104D5	10	L77JJ-2-AA	G0J080611-10RX	20	8290/SOLID	93	1.37000	g
28OC104D5	11	L77JK-2-AA	G0J080611-11RX	20	8290/SOLID		1.12000	g
28OC104D5	12	L77JL-2-AA	G0J080611-12RX	20	8290/SOLID		1.38000	g
28OC104D5	13	L8L6C-1-AA	G0J170406-9	20	8290/SOLID	91	0.50000	SAM
28OC104D5	14	L8L6D-1-AA	G0J170406-10	20	8290/SOLID		0.50000	SAM
28OC104D5	15	L8L6E-1-AA	G0J170406-11	20	8290/SOLID		0.50000	SAM
28OC104D5	16	L79L8-1-AC	G0J060523-1LCS	20	23/AIR	81	0.33333	SAM
28OC104D5	17	ST1028B	CS3 10DXN461				1.00000	
28OC104D5	18	SB1028	Solvent Blank C-14				1.00000	
28OC104D5	19	L8V09-1-AC	G0J210484-11LCS	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	20	L8V09-1-AD	G0J210484-11DCS	20	TO9/AIR		0.50000	SAM
28OC104D5	21	L8VH6-1-AA	G0J210484-11	20	TO9/AIR		0.50000	SAM
28OC104D5	22	L8VH8-1-AA	G0J210484-13	20	TO9/AIR		0.50000	SAM
28OC104D5	23	L8VH9-1-AA	G0J210484-14	20	TO9/AIR		0.50000	SAM
28OC104D5	24	L8VJE-1-AA	G0J210484-17	20	TO9/AIR		0.50000	SAM
28OC104D5	25	L8E9J-1-A3	G0J130451-3 (20X)	20	8290/SOLID	89	10.06000	g
28OC104D5	26	L8E9G-1-AU	G0J130451-1 (10X)	20	8290/SOLID		9.95000	g
28OC104D5	27	L819T-1-AA	G0J230497-17	20	8290/WATER	93B	1.04142	L
28OC104D5	28	L82Q9-1-AC	G0J230497-17LCS	20	8290/WATER		1.00000	L
28OC104D5	29	L82Q9-1-AA	G0J230497-17MB	20	8290/WATER		1.00000	L
28OC104D5	30	ST1028C	CS3 10DXN461				1.00000	
28OC104D5	31	CP1028A	DB-5 CPSM 3732-10				1.00000	
28OC104D5	32	SB1028A	Solvent Blank C-14				1.00000	
28OC104D5	33	L8VH6-1-AA	G0J210484-11 RI	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	34	L8VH8-1-AA	G0J210484-13 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	35	L8VH9-1-AA	G0J210484-14 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	36	L8VJE-1-AA	G0J210484-17 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	37	L819T-1-AA	G0J230497-17 RI	20	8290/WATER	93B	1.04142	L
28OC104D5	38	L82Q9-1-AC	G0J230497-17LCS RI	20	8290/WATER		1.00000	L
28OC104D5	39	ST1028D	CS3 10DXN461				1.00000	
28OC104D5	40						0.00000	
28OC104D5	41						0.00000	
28OC104D5	42		AS 10/28/10				0.00000	

*Logfile vid
10/29/10
KSS*

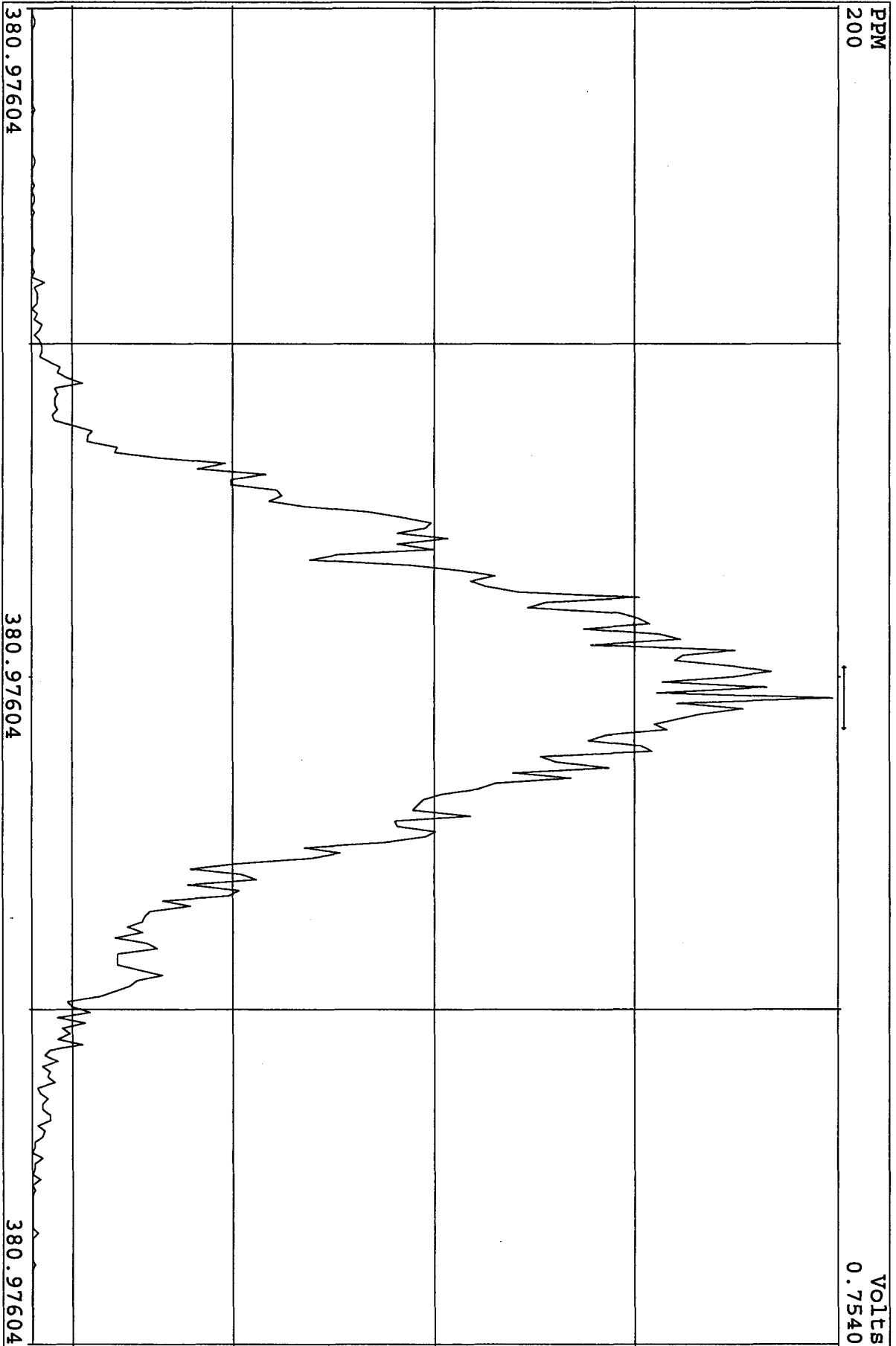
SIRLM Examination: 29-OCT-2010: 08:37 File: 280C104D5
Experiment: DIOXINRES Function: 6



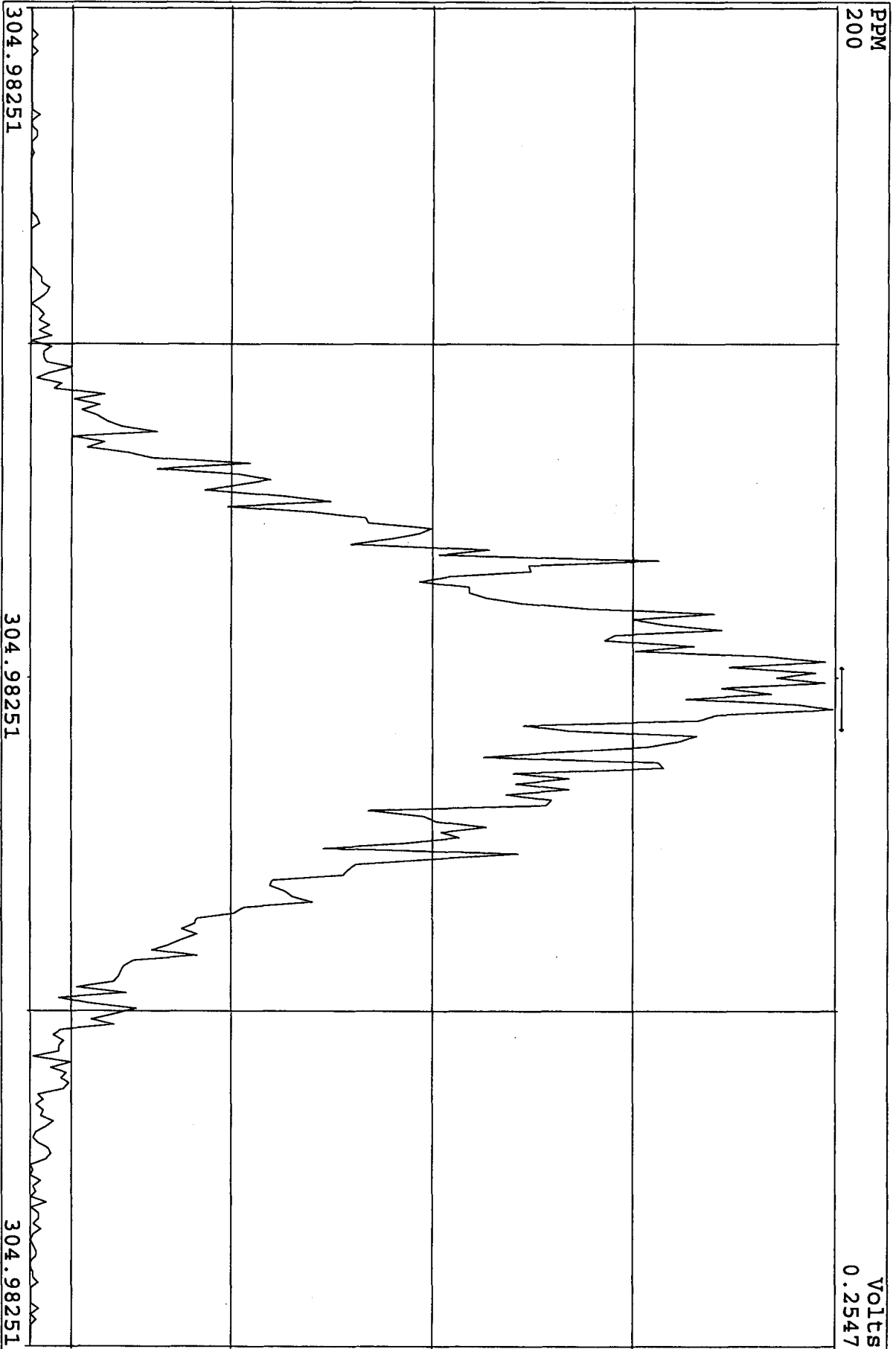
SIRIM Examination: 29-OCT-2010: 08:38 File: 280C104D5
Experiment: DIOXINRES Function: 7



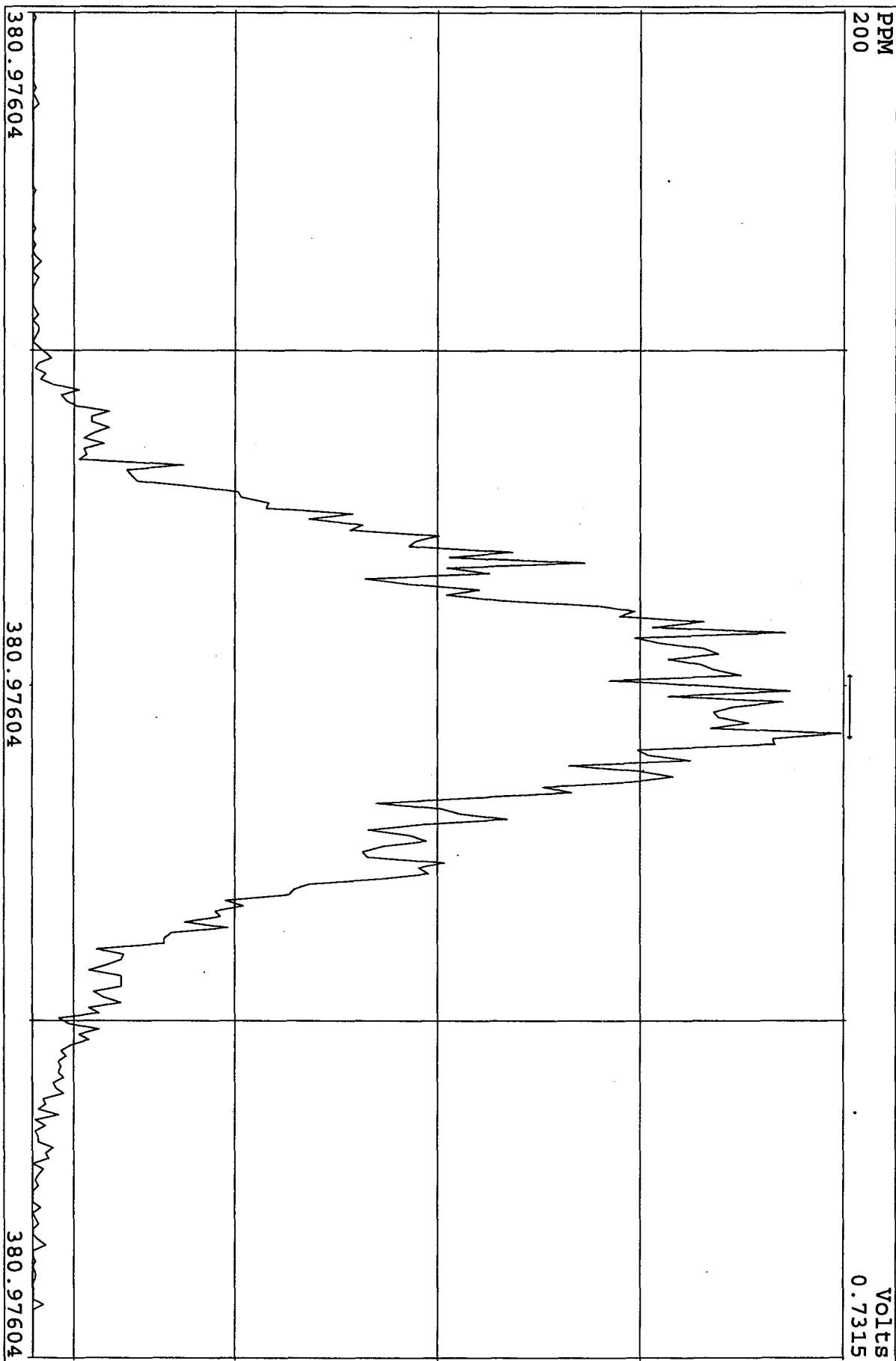
SIRLM Examination: 29-OCT-2010: 13:49 File: 280C104D5
Experiment: DIOXINRES Function: 6



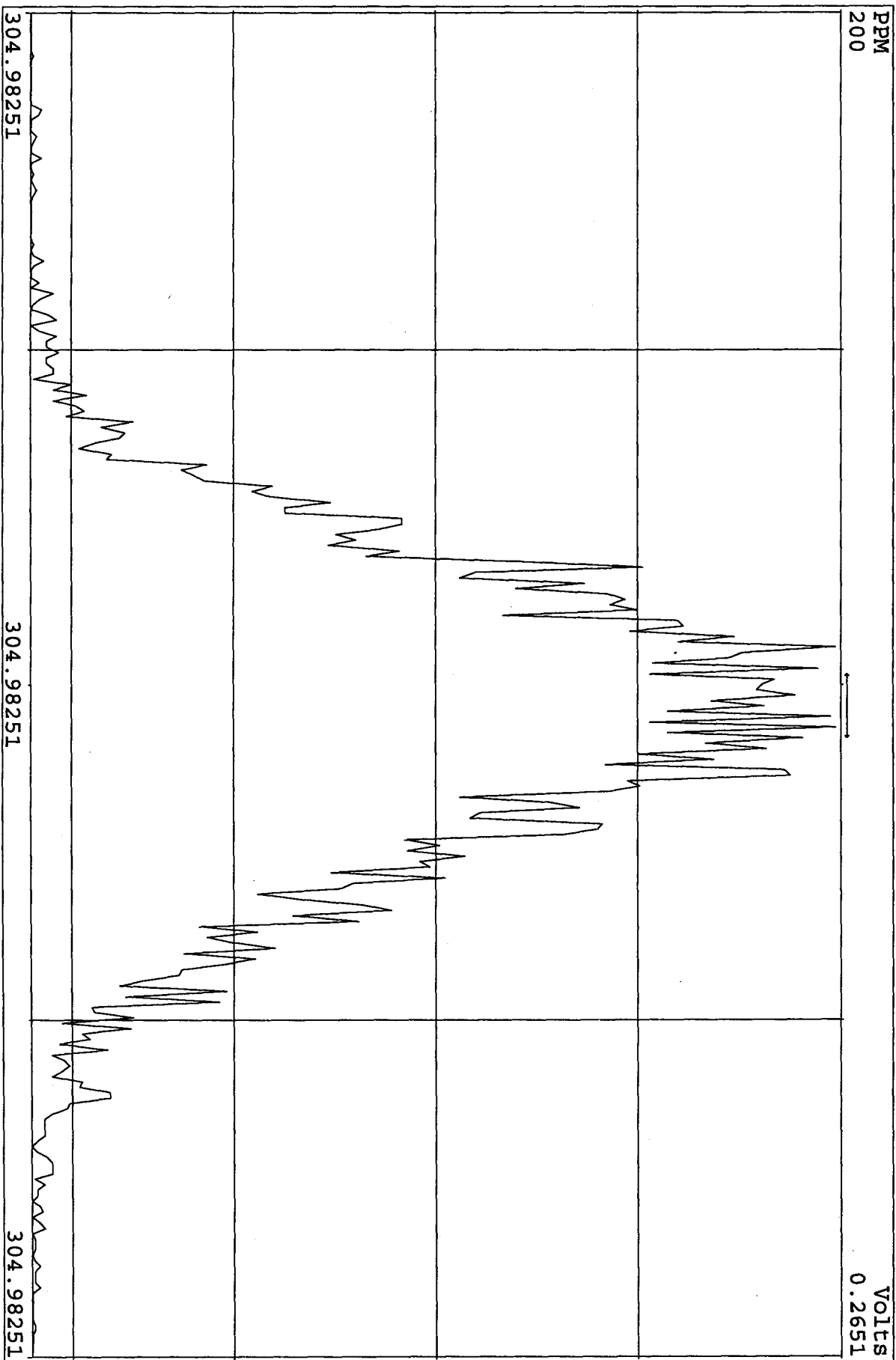
SIRLM Examination: 29-OCT-2010: 13:50 File: 280C104D5
Experiment: DIOXINRES Function: 7



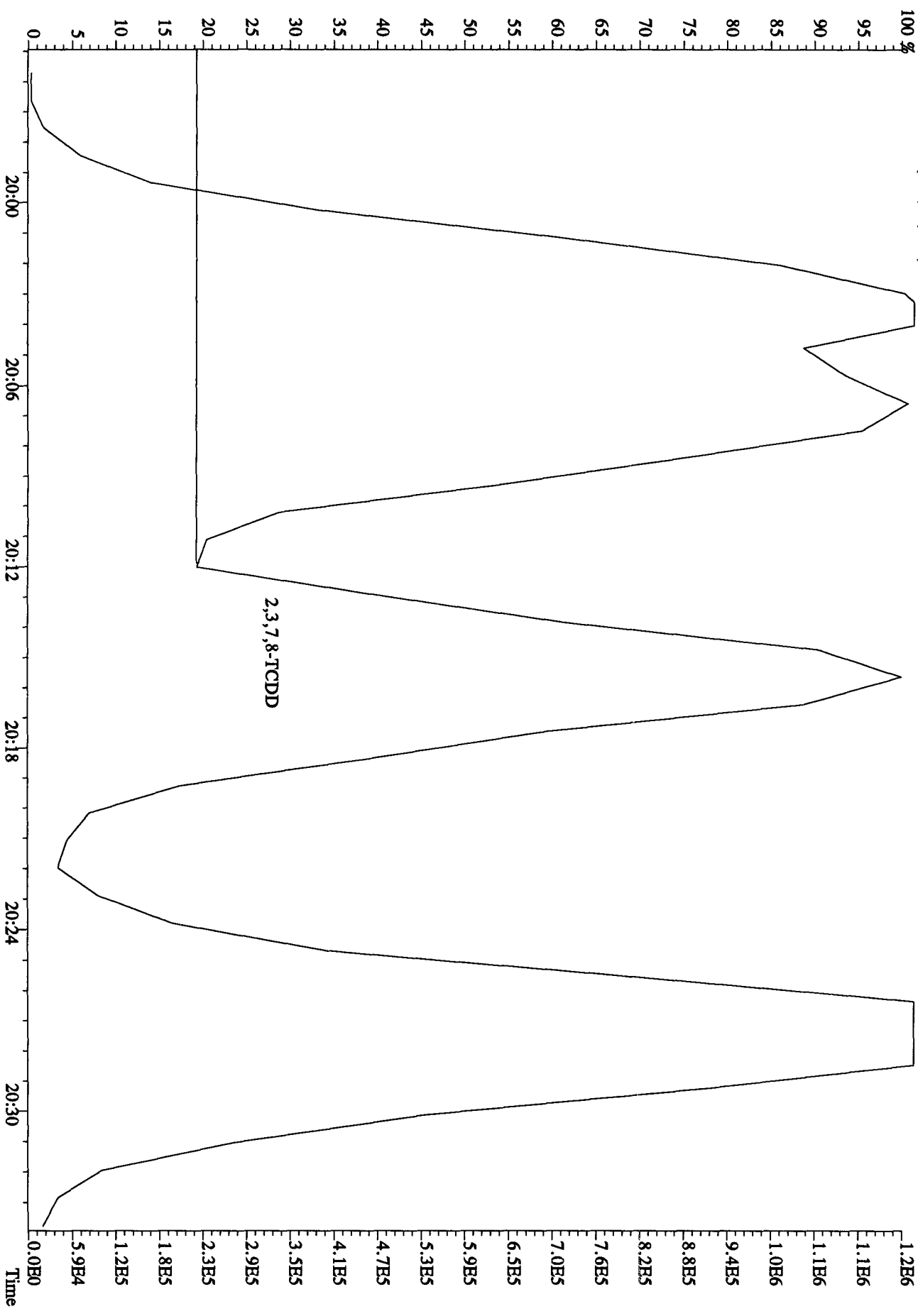
SIRLM Examination: 29-OCT-2010: 14:34 File: 280C104D5
Experiment: DIOXINRES Function: 6



SIRLM Examination: 29-OCT-2010:14:35 File: 280C104D5
Experiment: DIOXINRES Function: 7



File:28OC104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
319.8965 S:31 BSUB(128,15,-3.0)



2,3,7,8-TCDD

Run: 280C104D5 Analyte: T09 Cal: T090721104D5

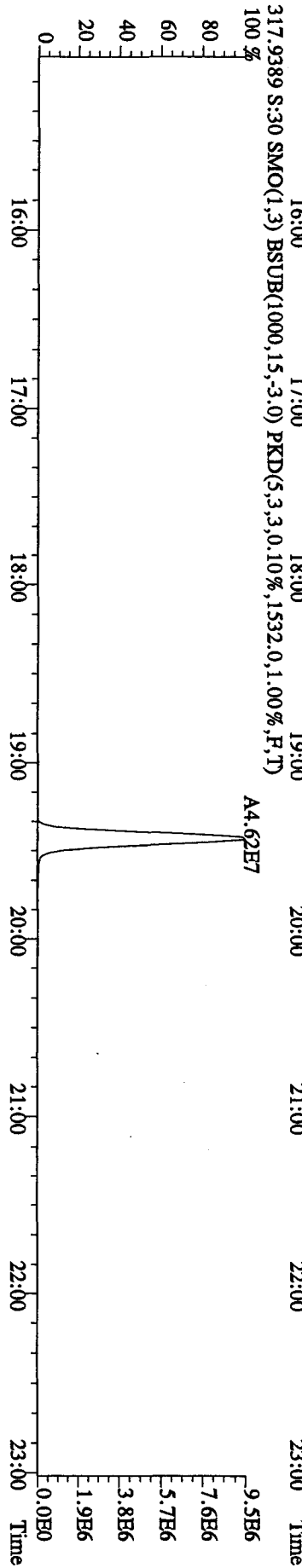
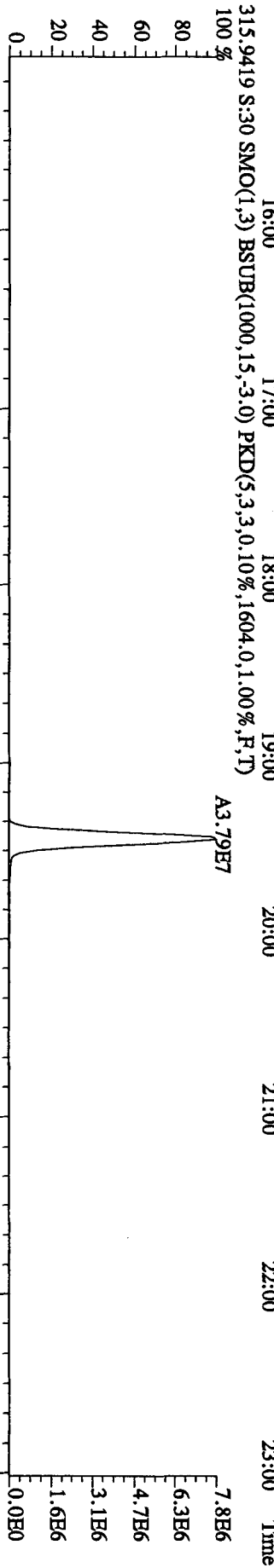
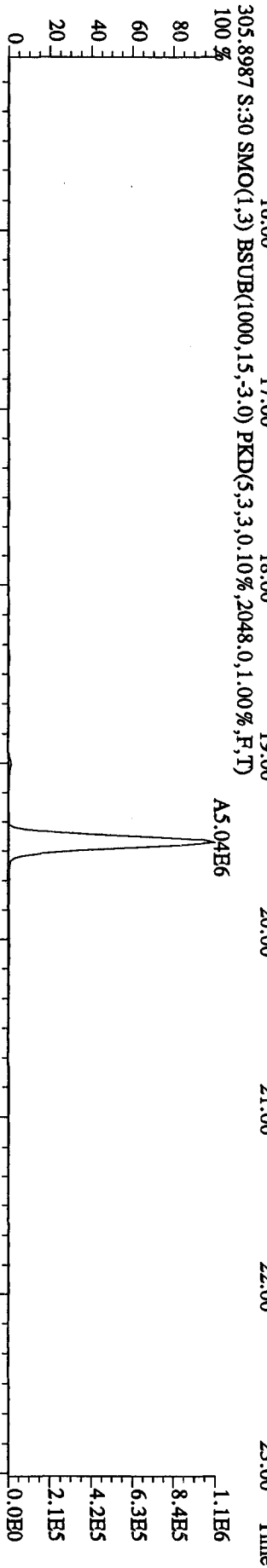
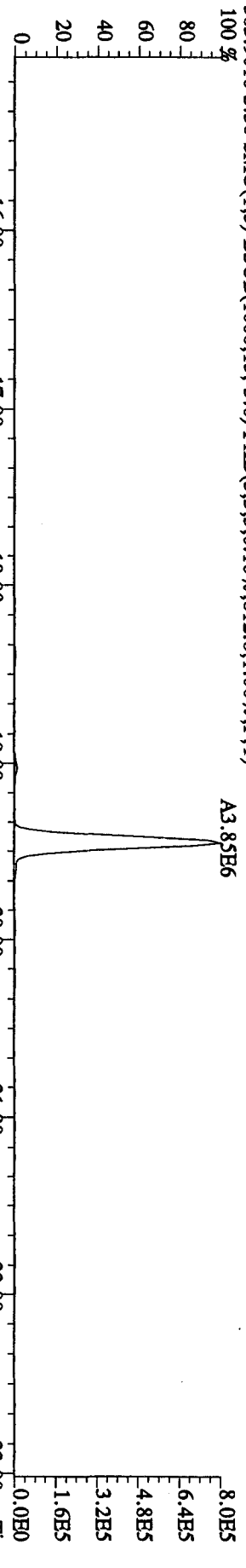
ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336
 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5

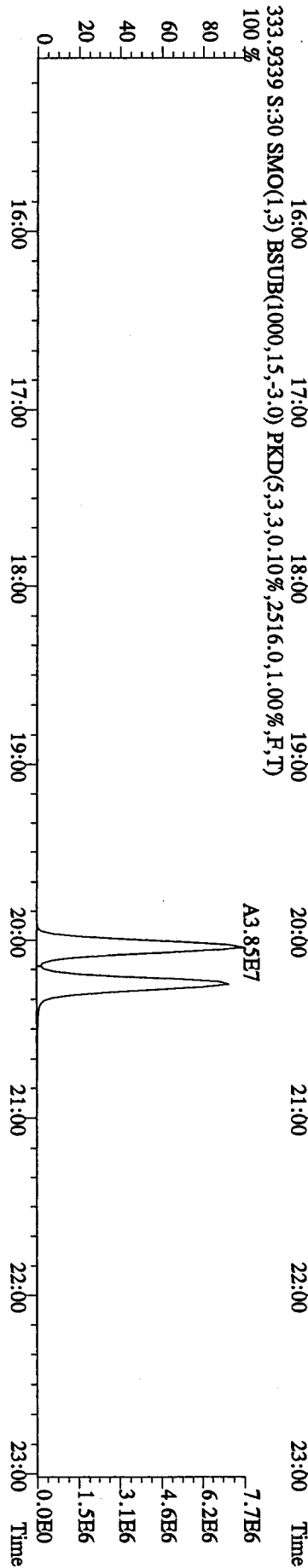
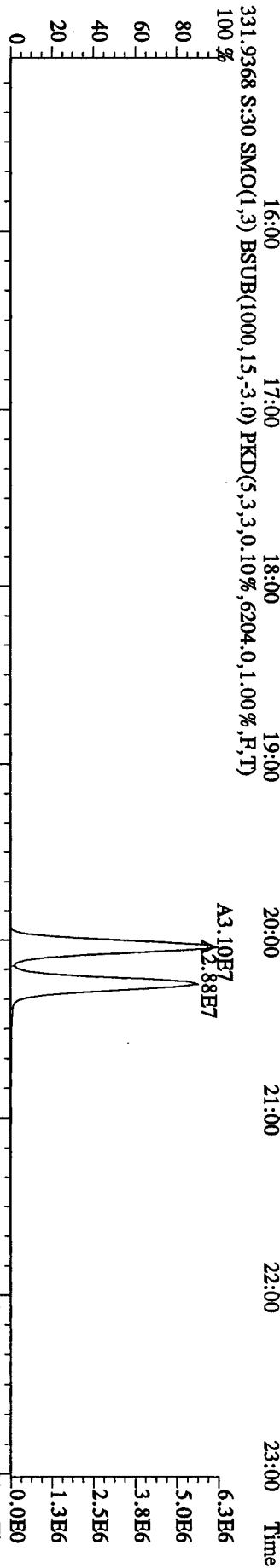
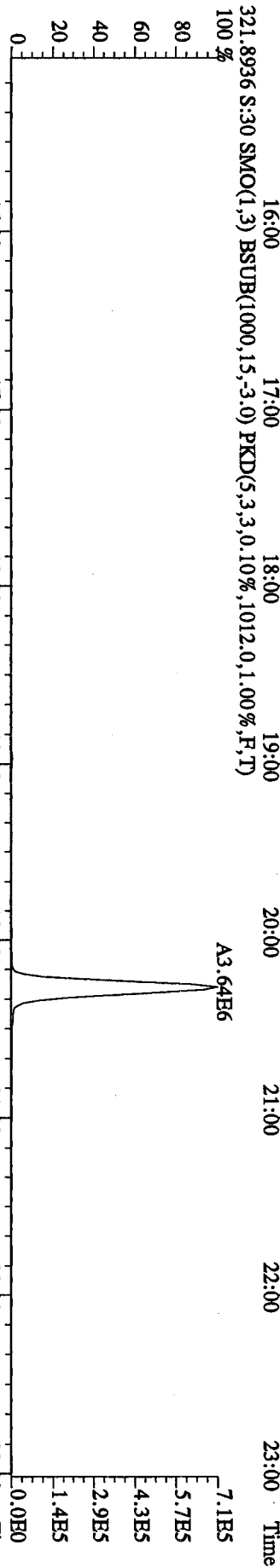
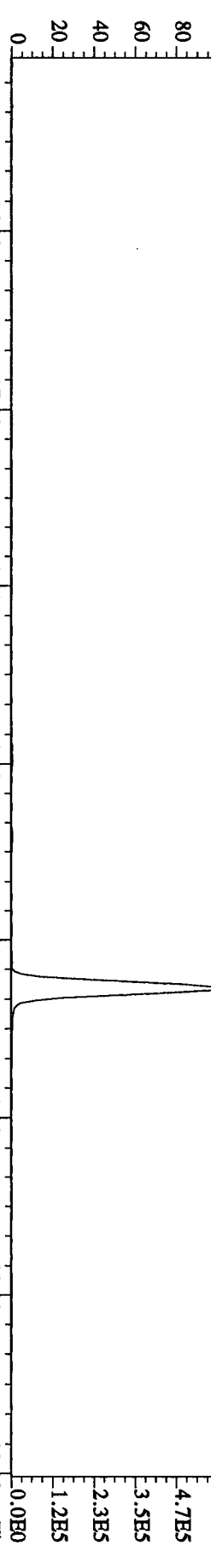
Name	Mean	S. D.	%RSD	S4	S5	S6	S7	S8
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

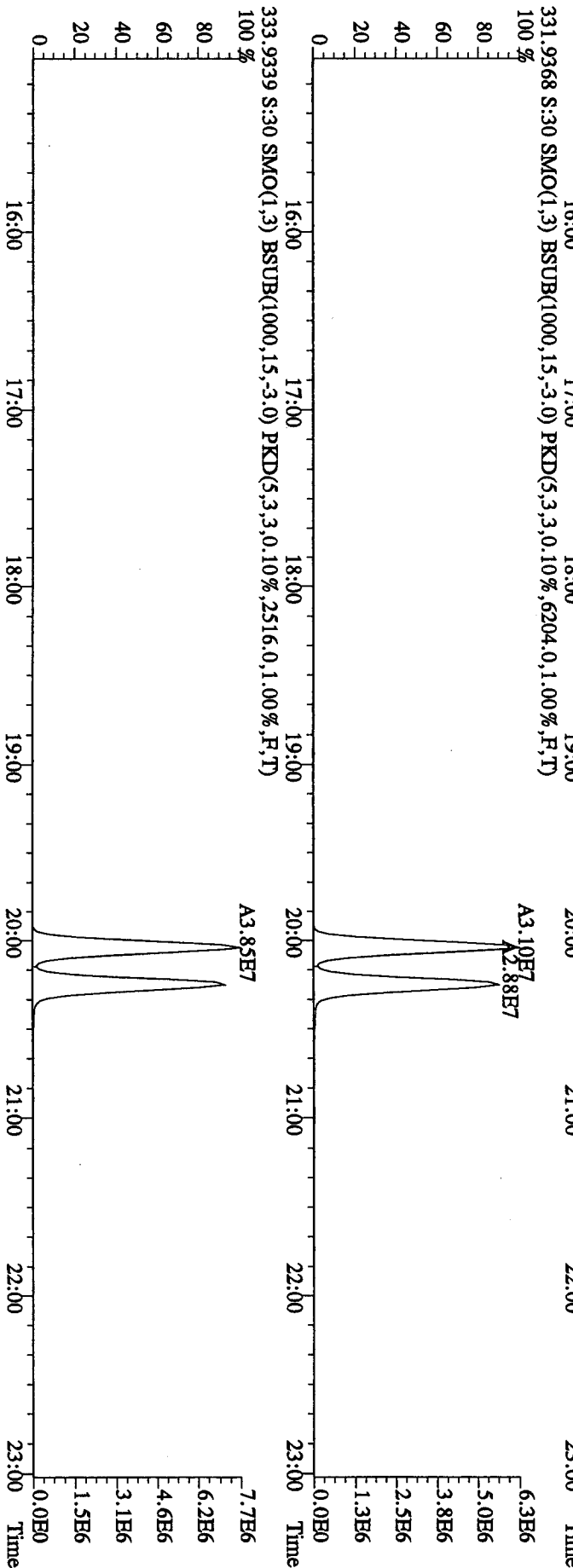
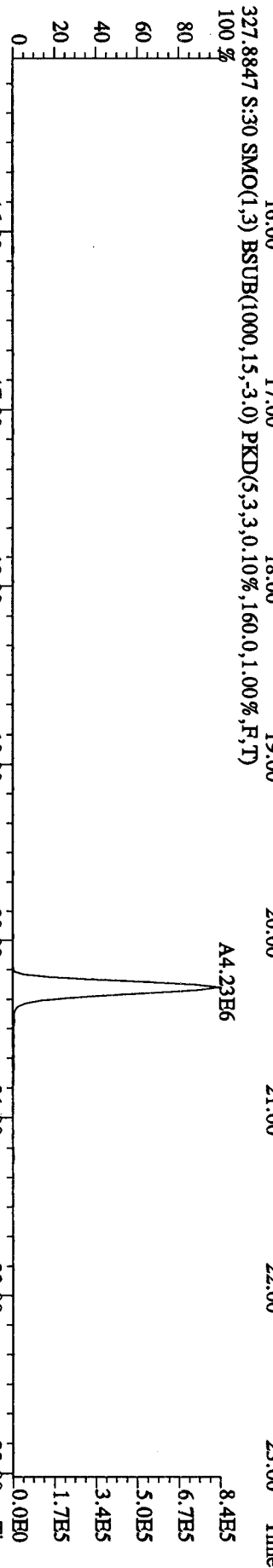
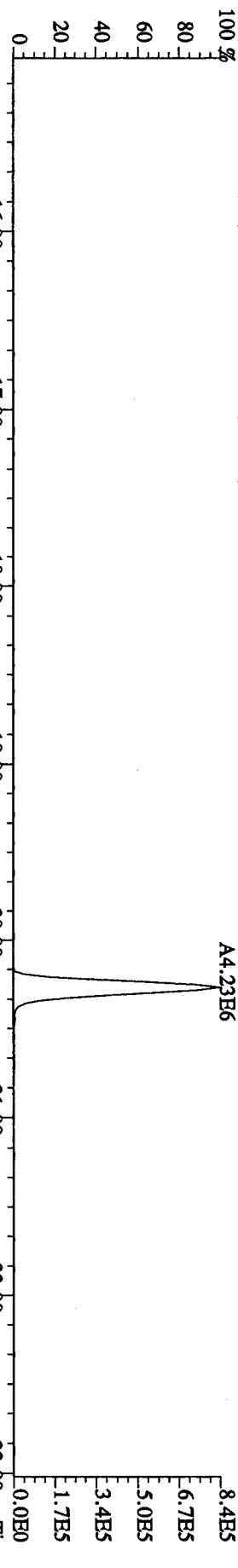
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 303.9016 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,812.0,1.00%,F,T)



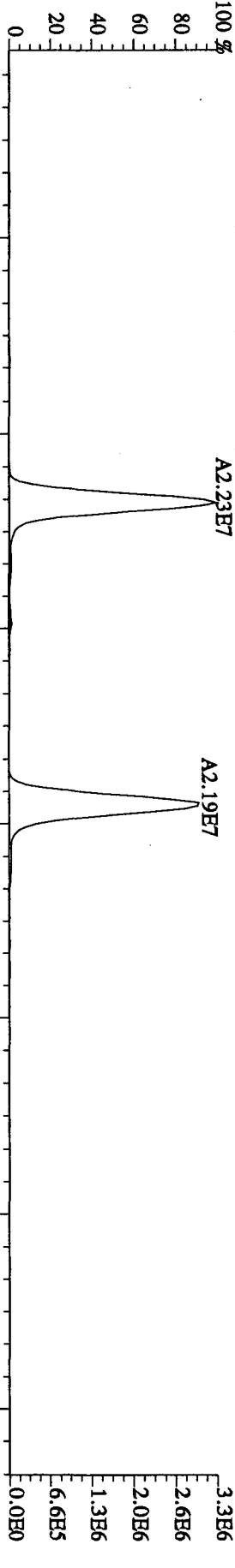
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-UltimaB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 319.8965 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,668.0,1.00%,F,T)



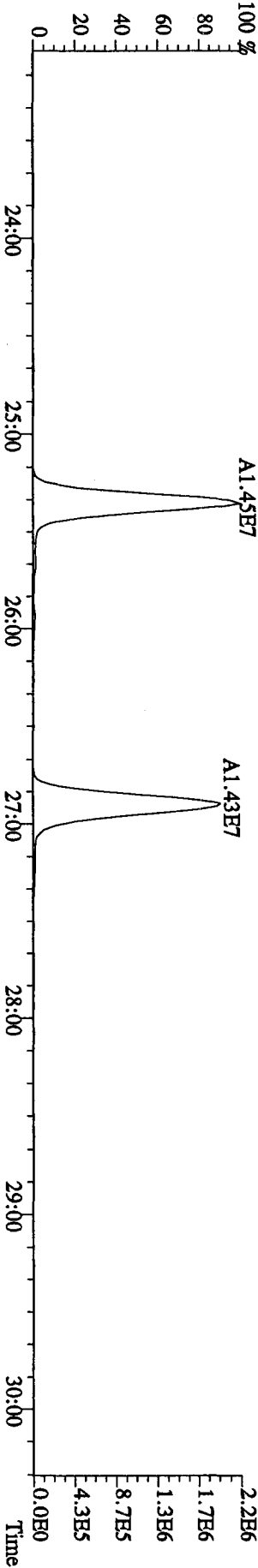
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-UltimaB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 327.8847 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,160,0,1,00%,F,T)
 100%



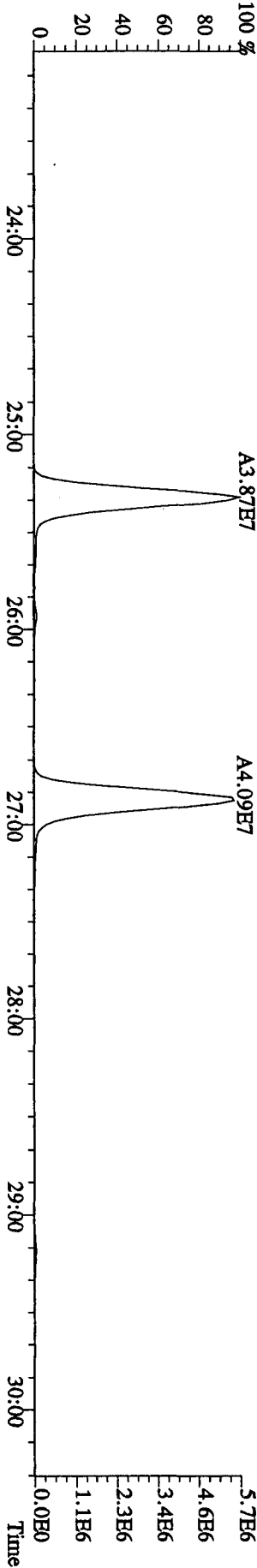
File:28OC104D5 #1-469 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 339.8597 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1196.0,1.00%,F,T)
 100 % A2.23E7 A2.19E7



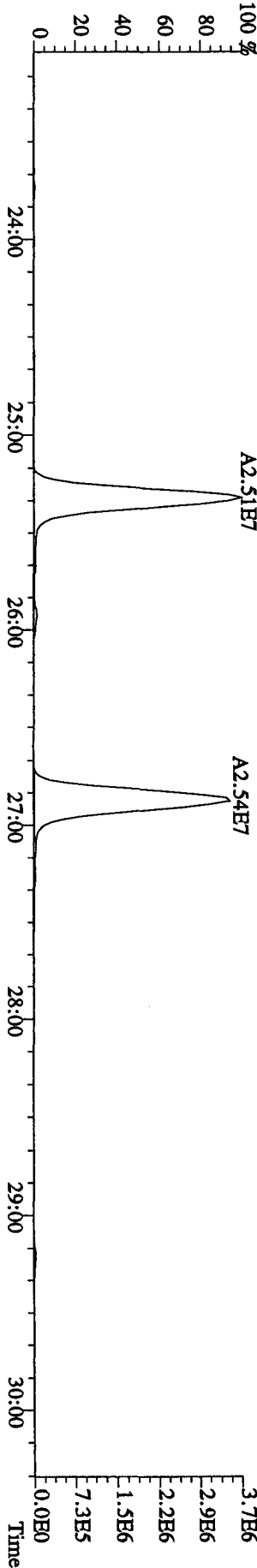
341.8567 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1976.0,1.00%,F,T)
 100 % A1.45E7 A1.43E7



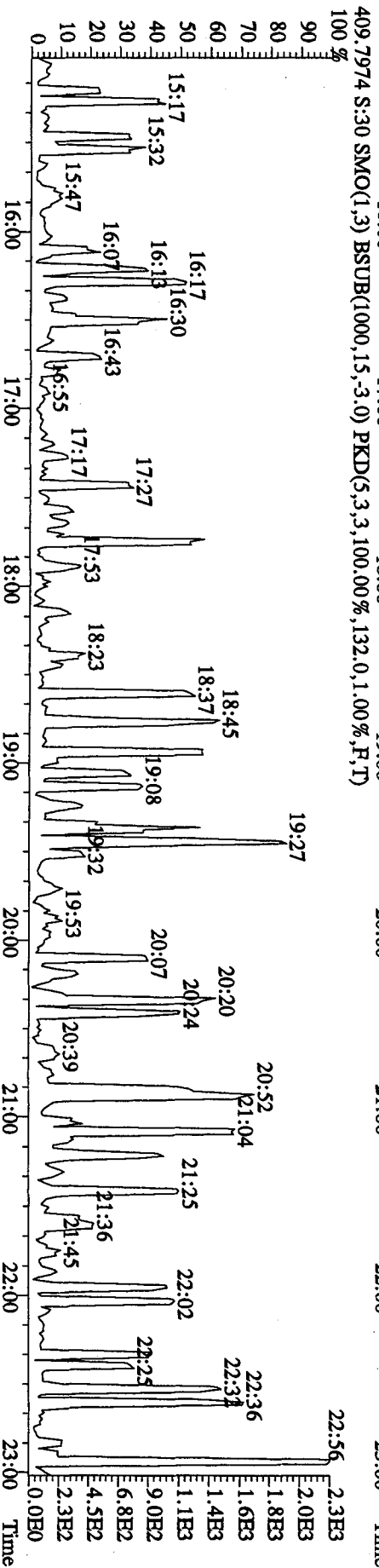
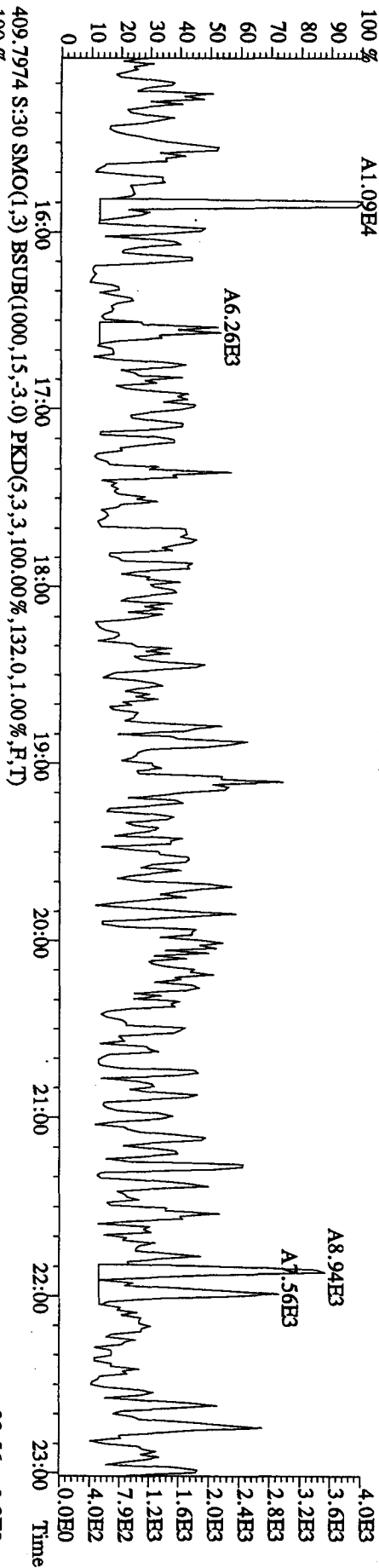
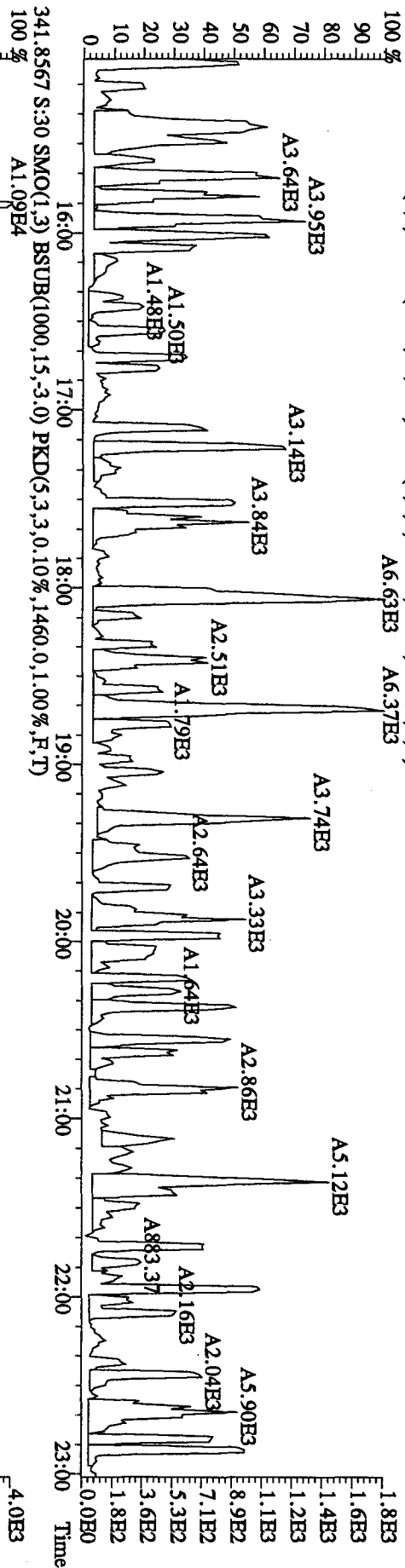
351.9000 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1948.0,1.00%,F,T)
 100 % A3.87E7 A4.09E7



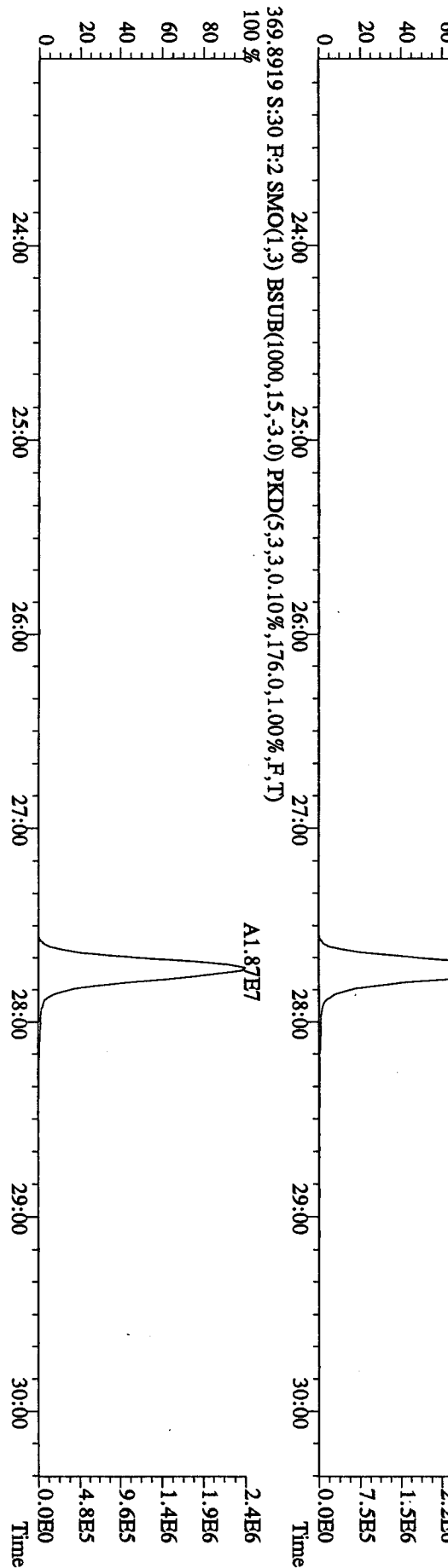
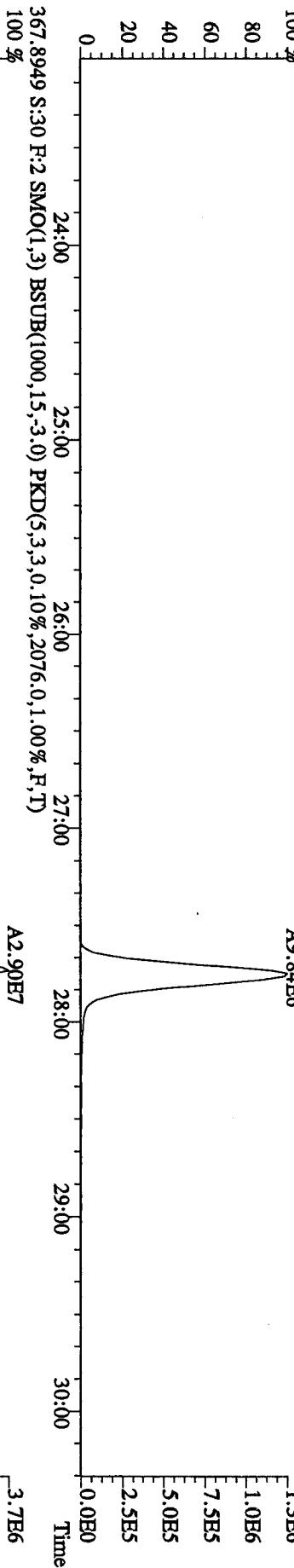
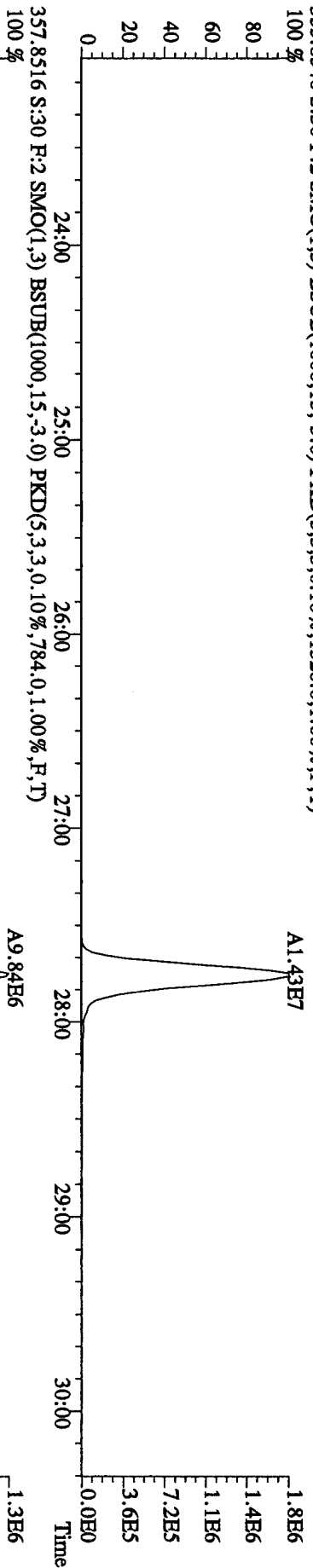
353.8970 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1152.0,1.00%,F,T)
 100 % A2.51E7 A2.54E7



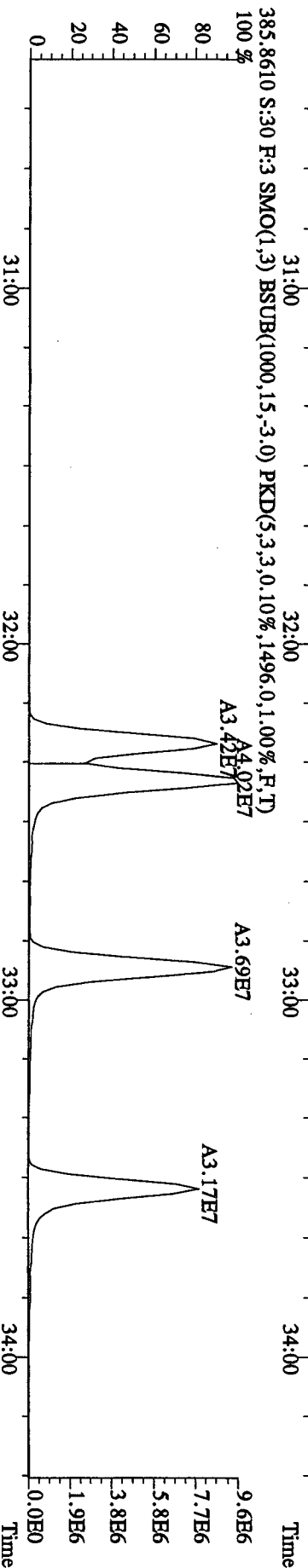
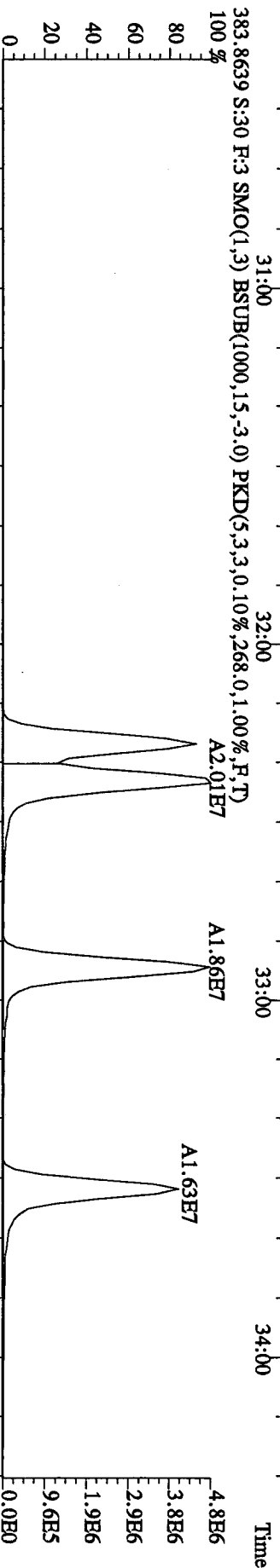
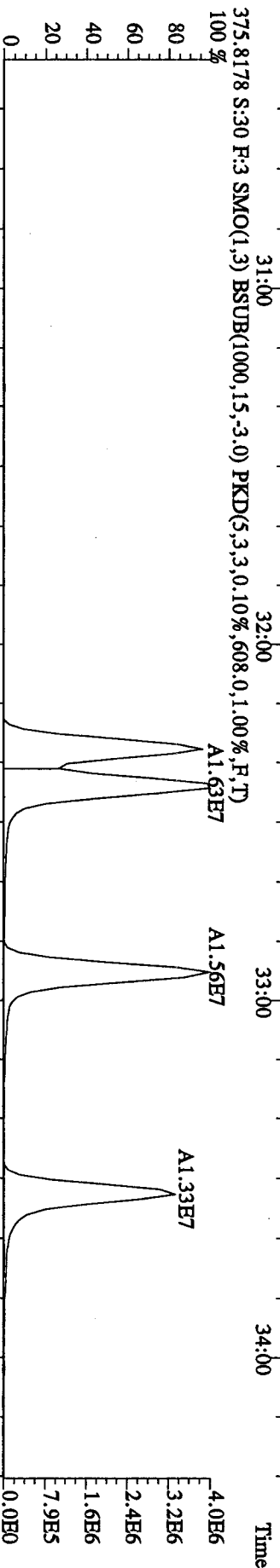
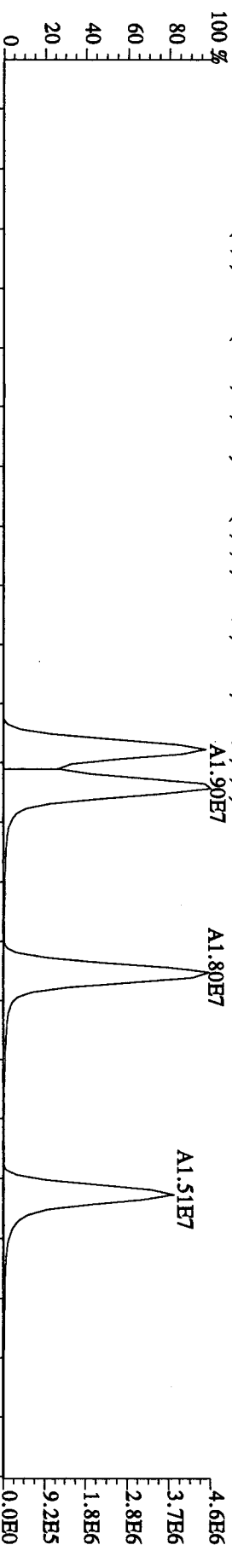
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC HI + Voltage SIR Autospec-Ultimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 339.8597 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,136.0,1.00%,F,T)
 A6.63E3 A6.37E3



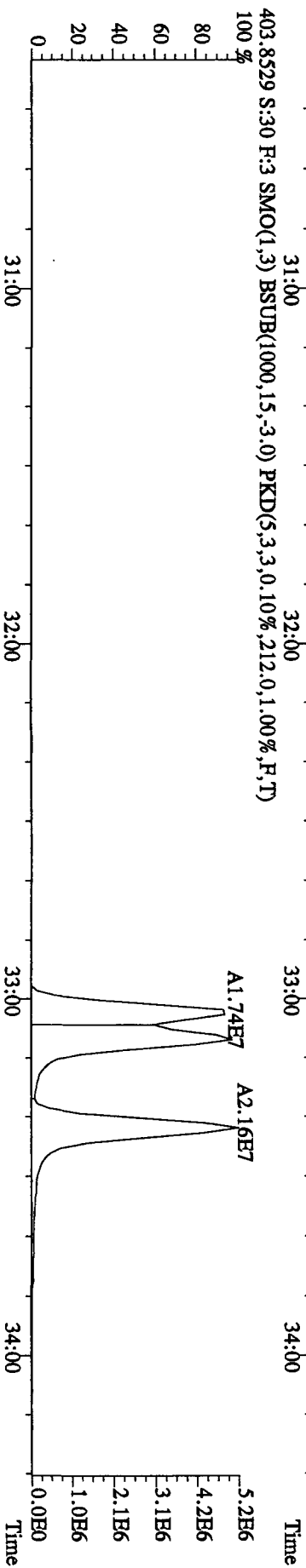
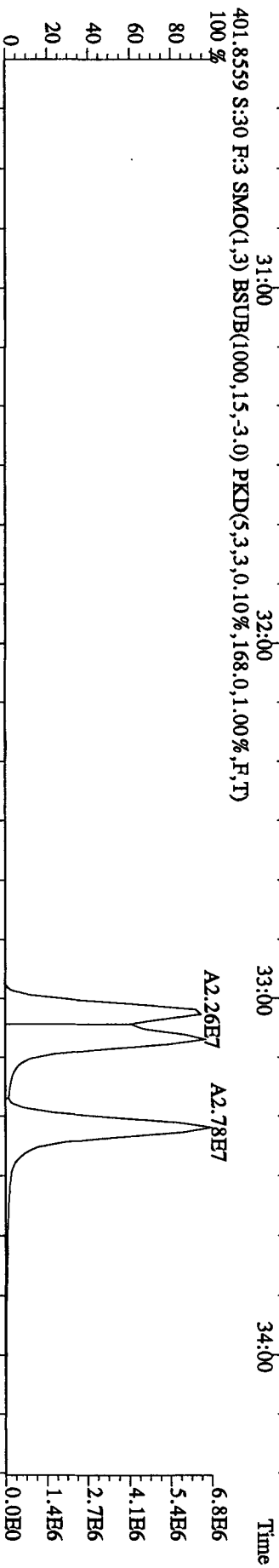
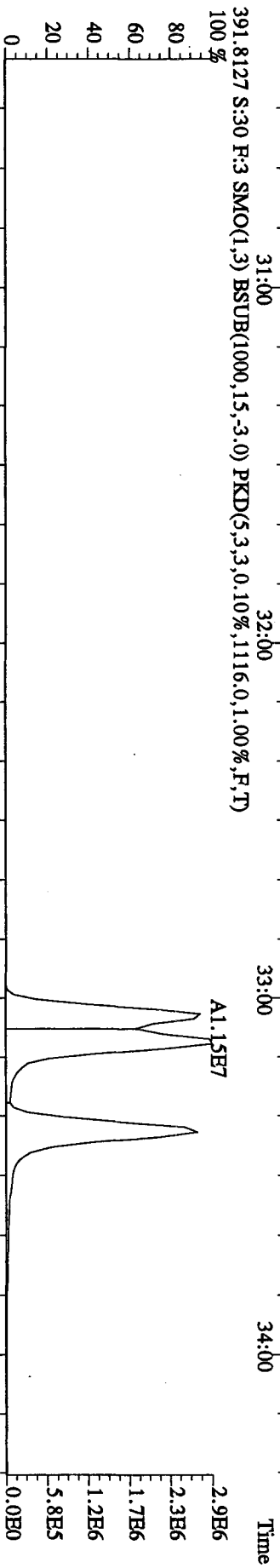
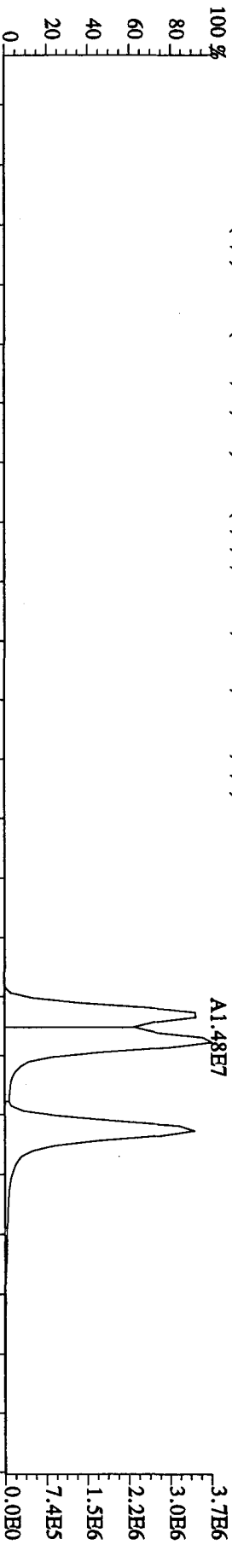
File:28OC104D5 #1-469 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 357.8516 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1520.0,1.00%,F,T)



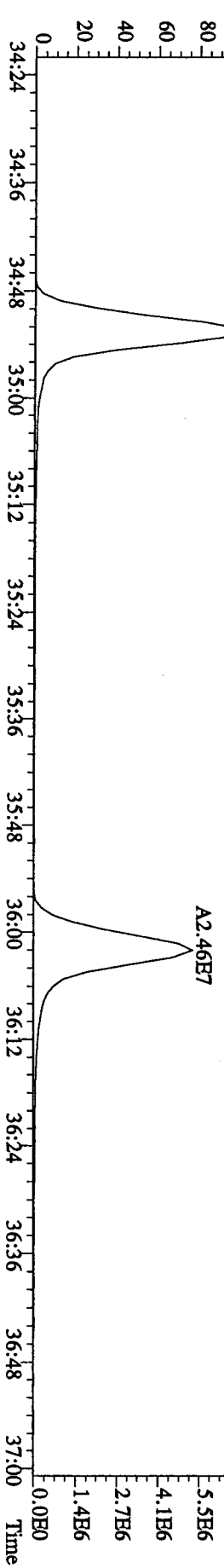
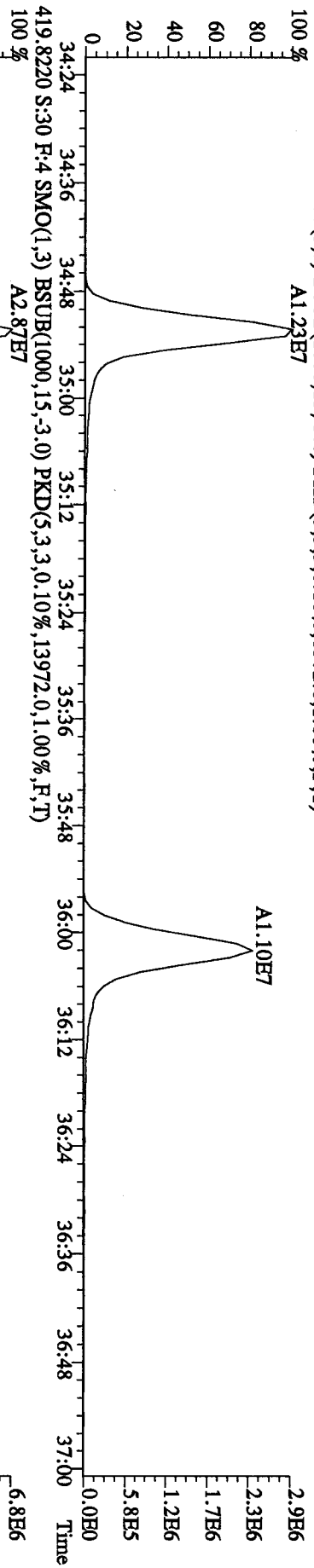
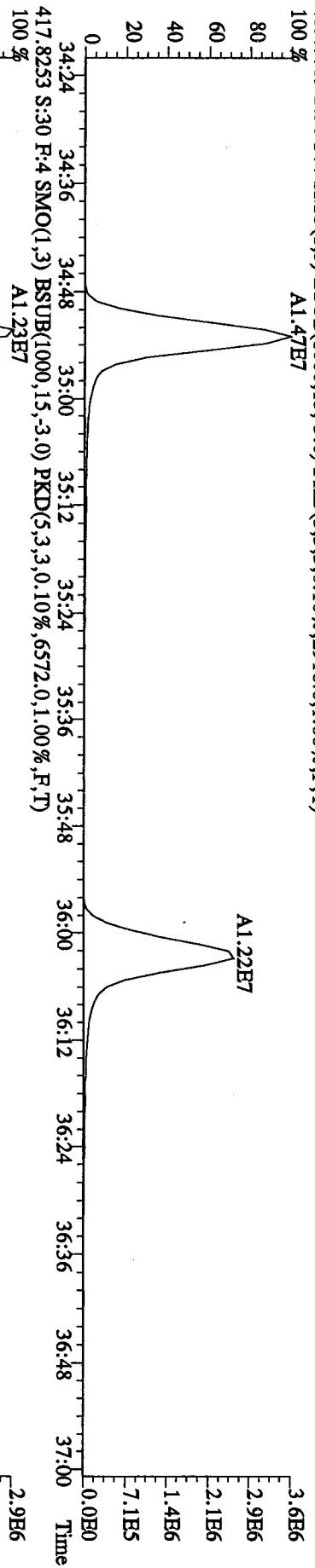
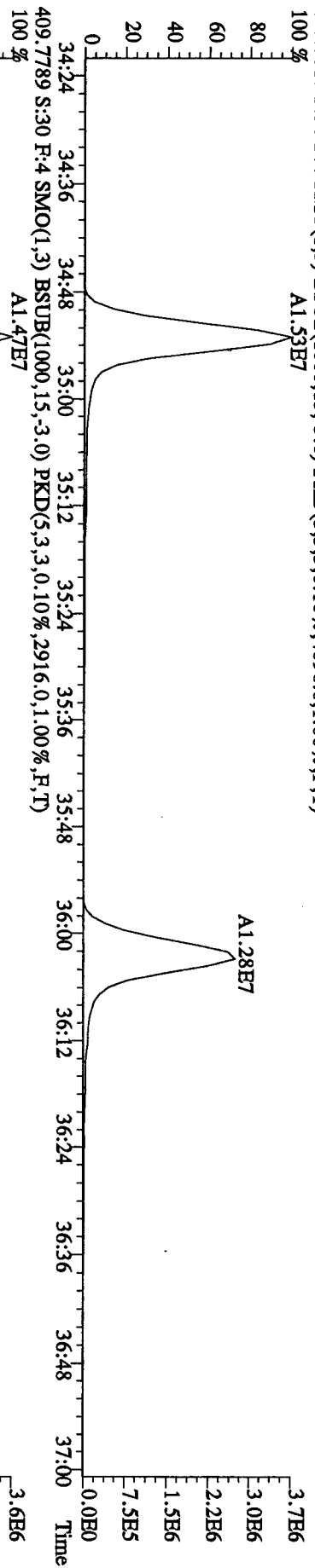
File:28OC104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 373.8208 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,484.0,1.00%,F,T)
 100 %



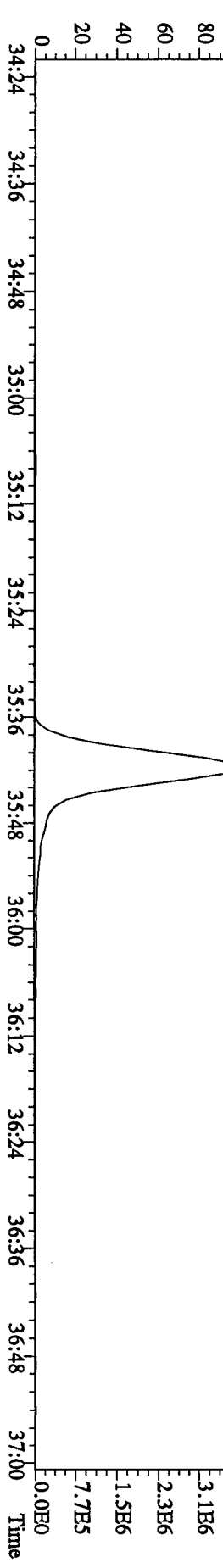
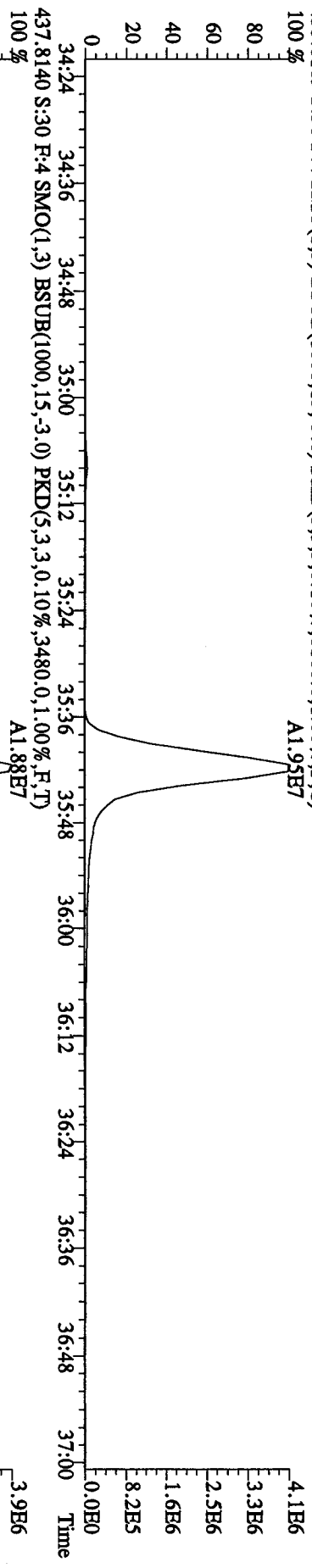
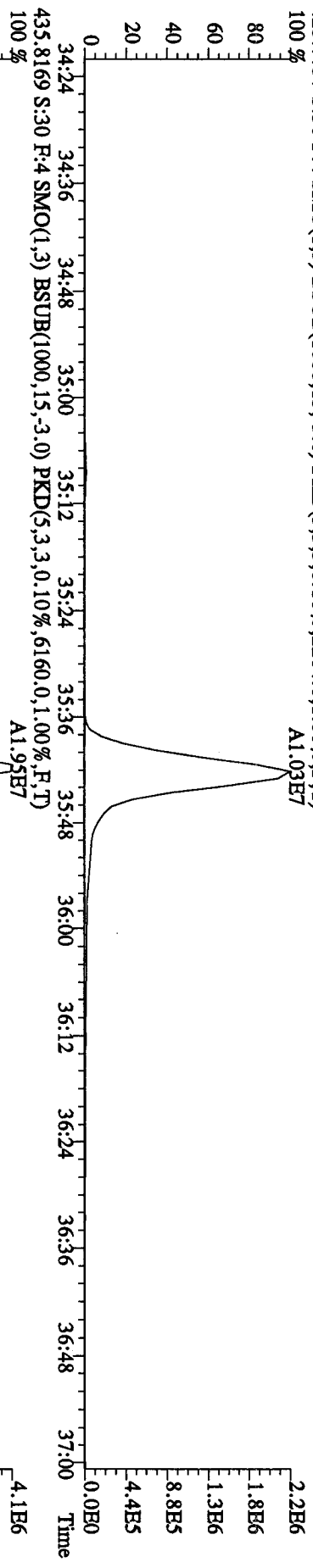
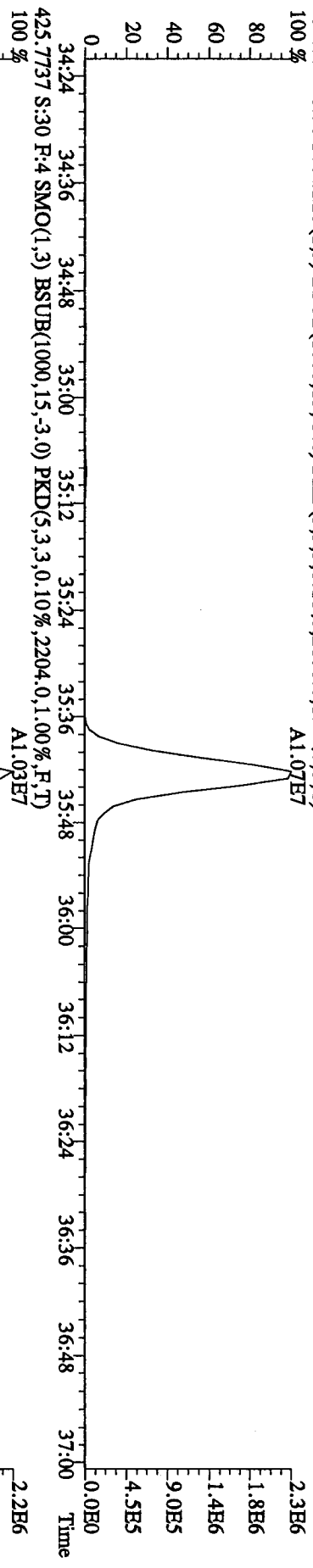
File:28OC104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 389.8157 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,604.0,1.00%,F,T) 100%



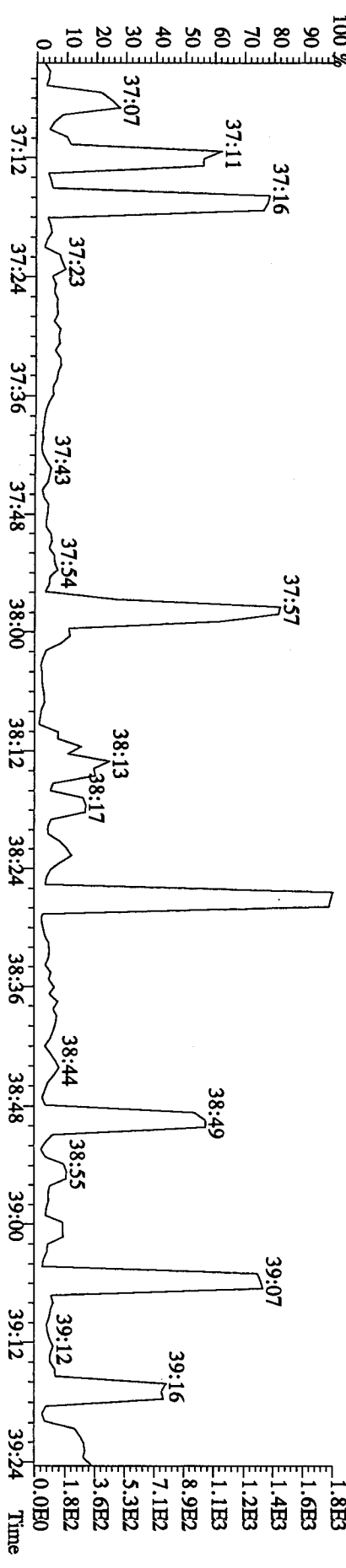
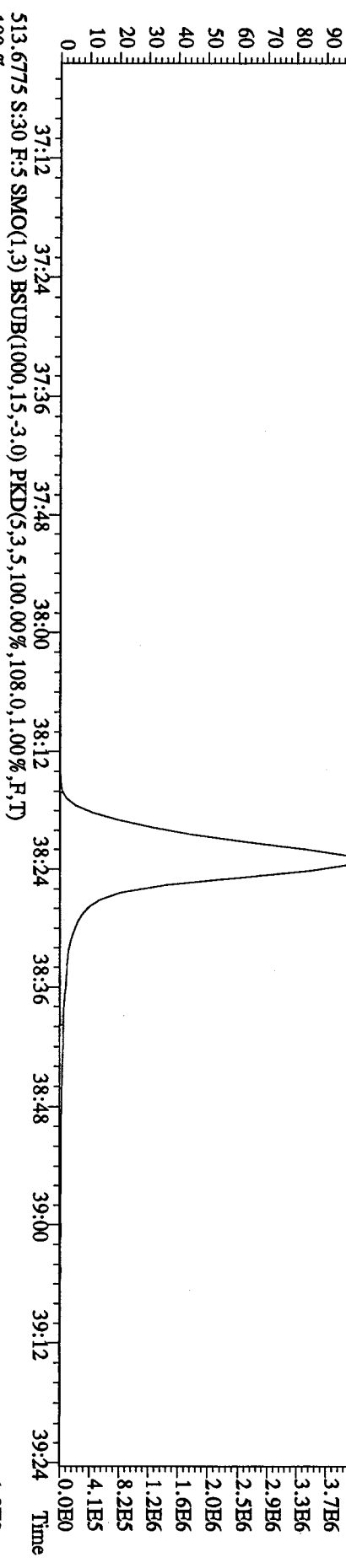
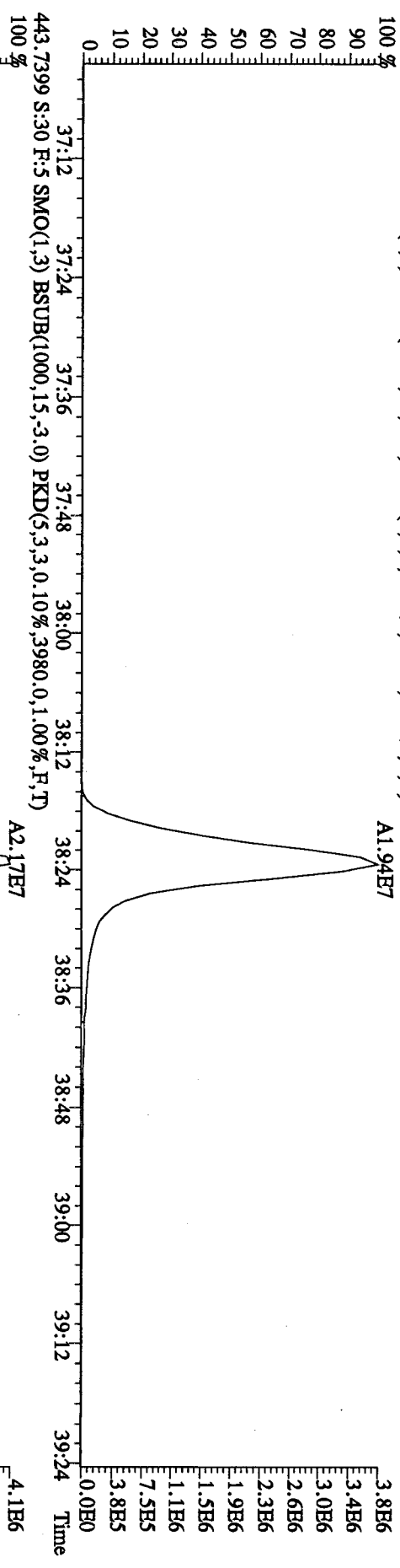
File: 280C104D5 #1-201 Acq: 29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 407.7818 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4096.0,1.00%,F,T)
 100% A1.53E7



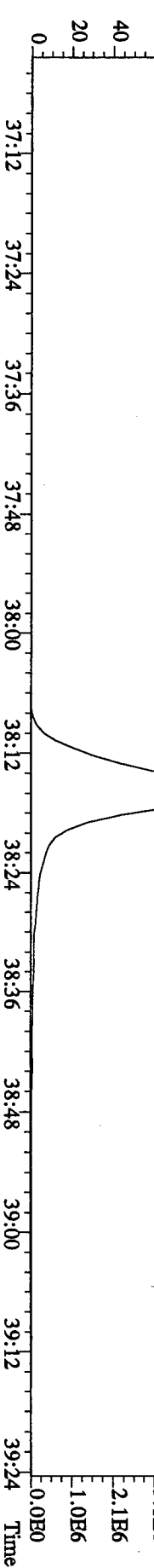
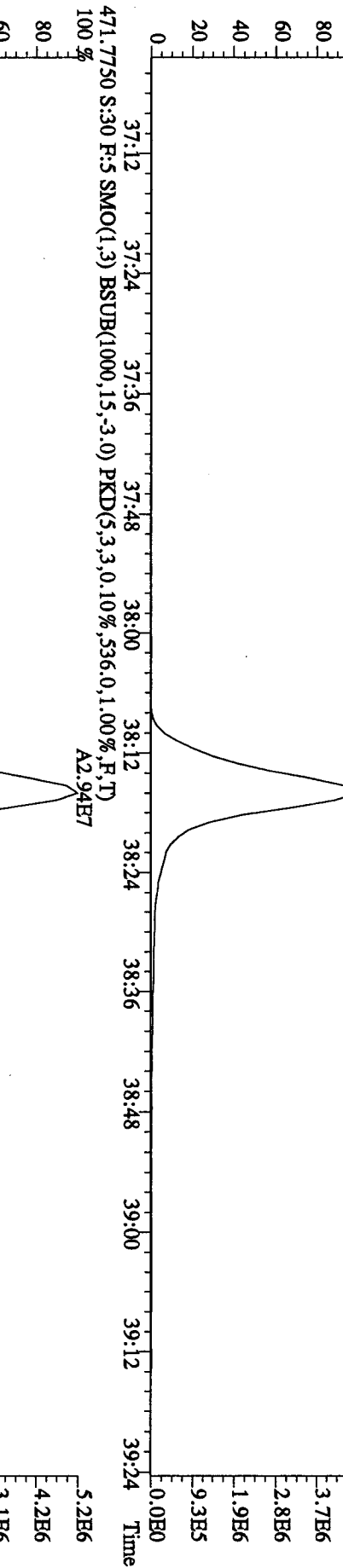
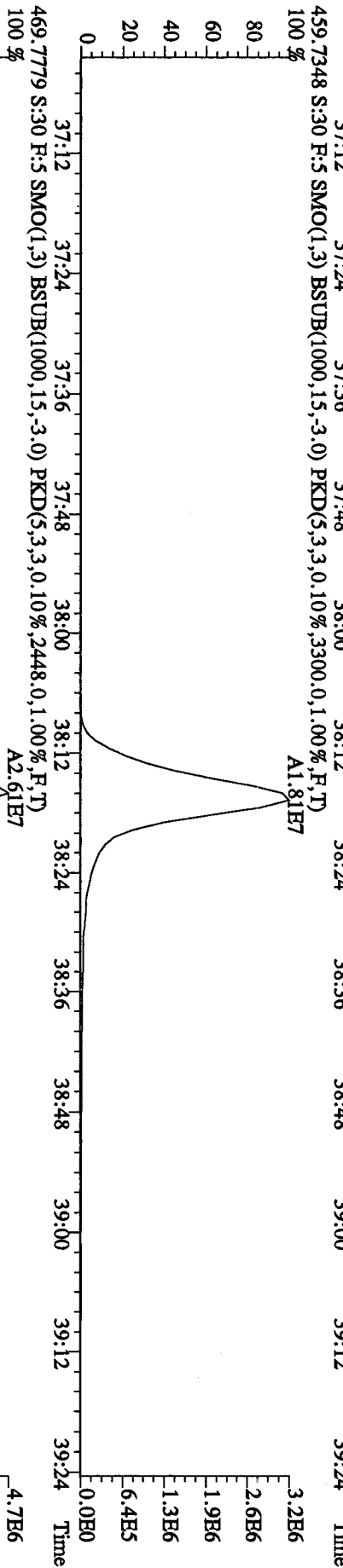
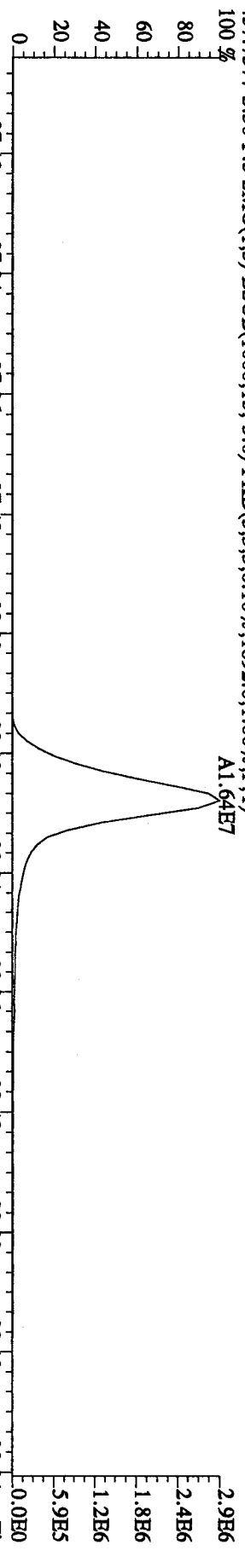
File:28OC104D5 #1-201 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimatB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRBS
 422.7766 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2676.0,1.00%,F,T) A1.07E7
 100%



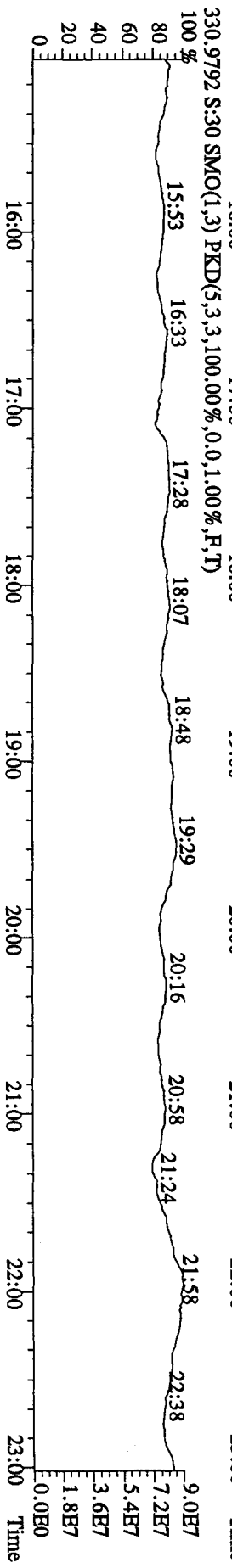
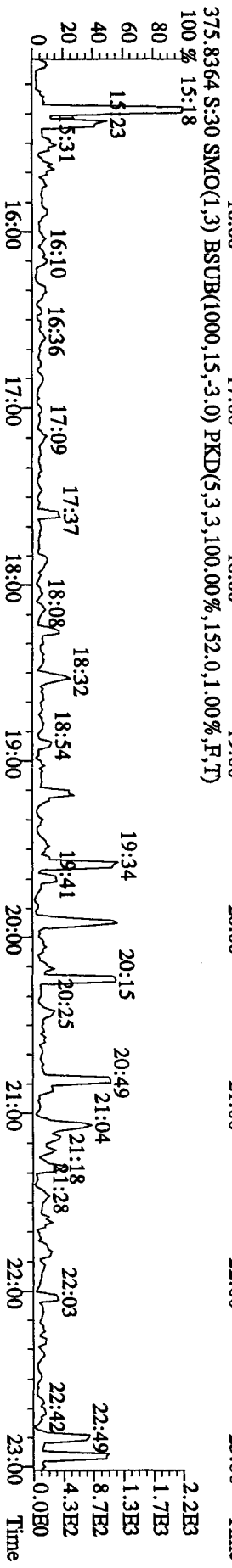
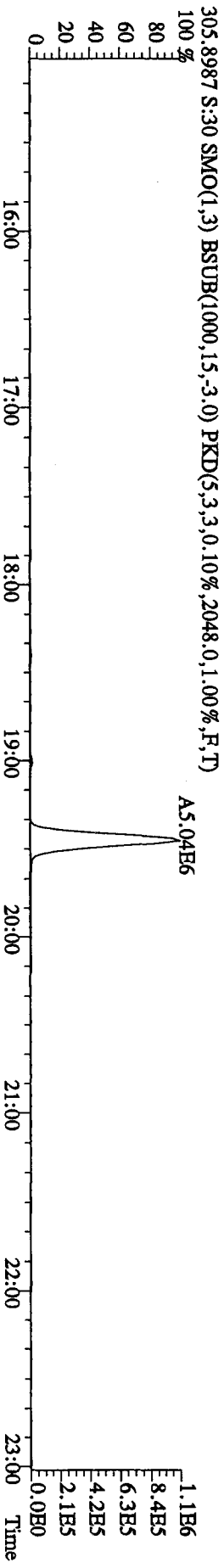
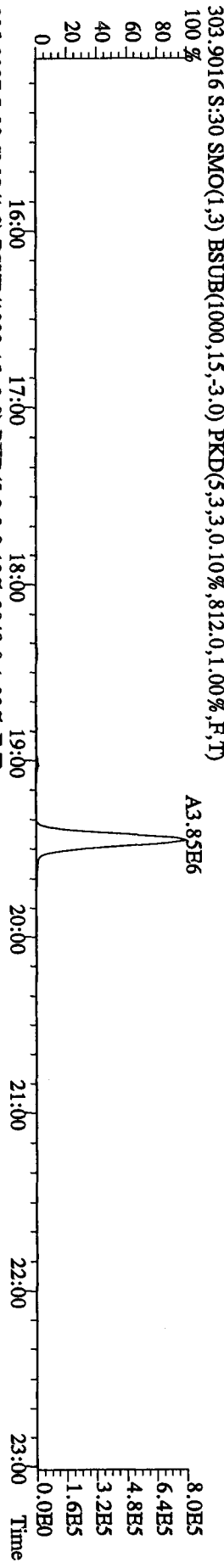
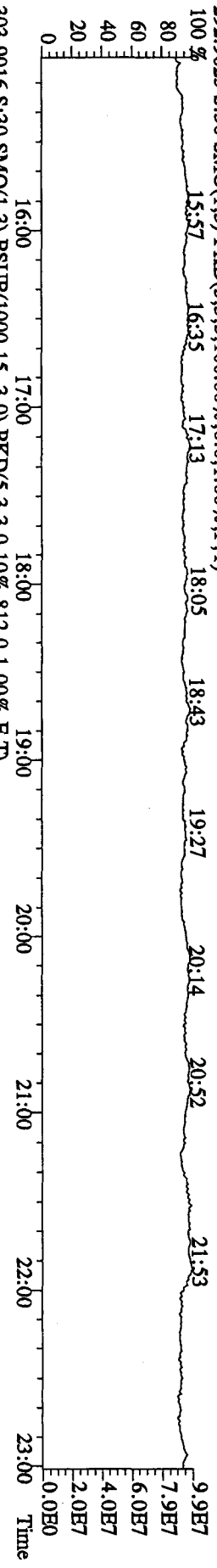
File: 28OC104D5 #1-192 Acq: 29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-UltimaE
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 441.7428 S:30 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)



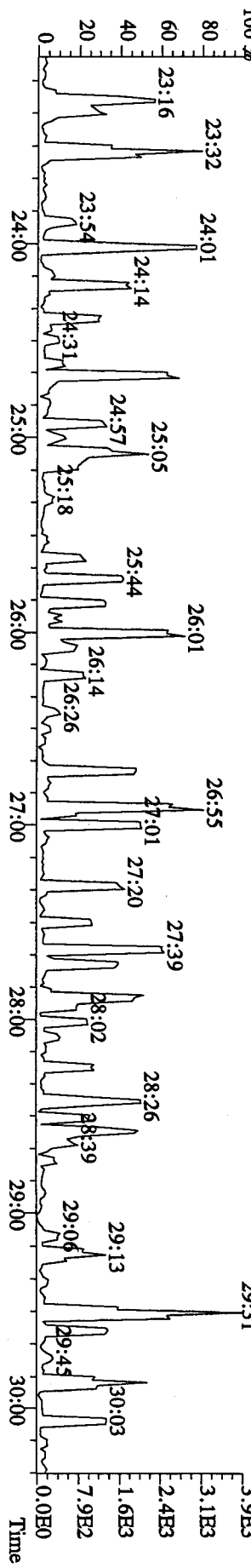
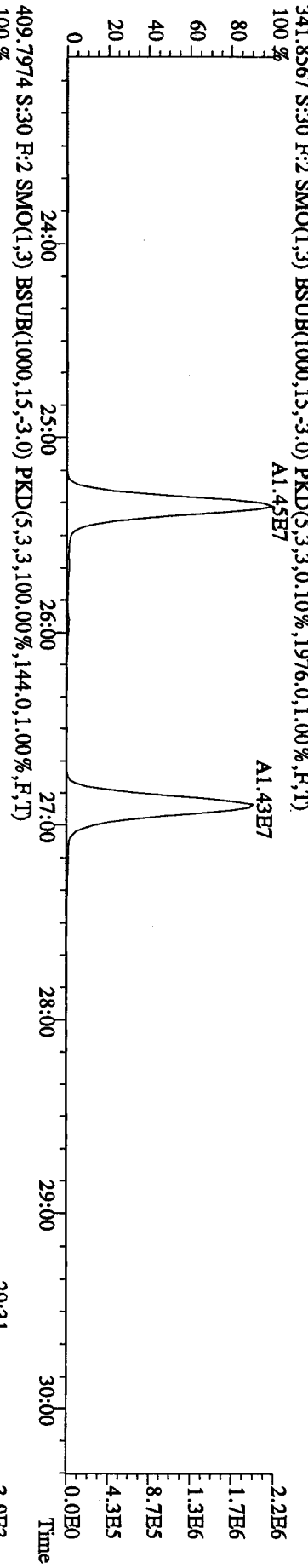
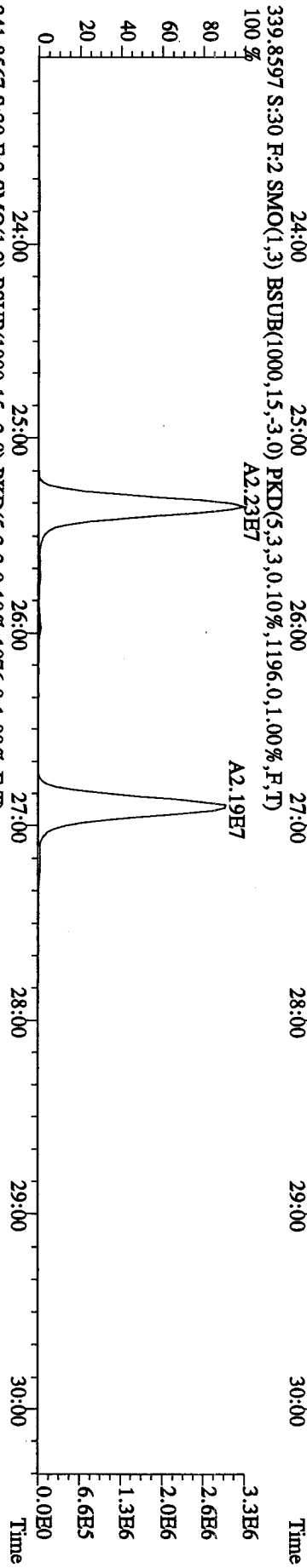
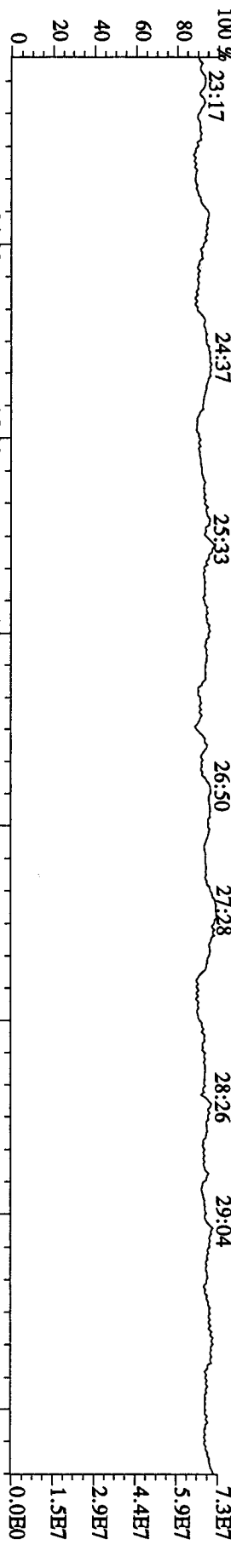
File:280C104D5 #1-192 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 457.7377 S:30 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1892.0,1.00% F,T)
 100%



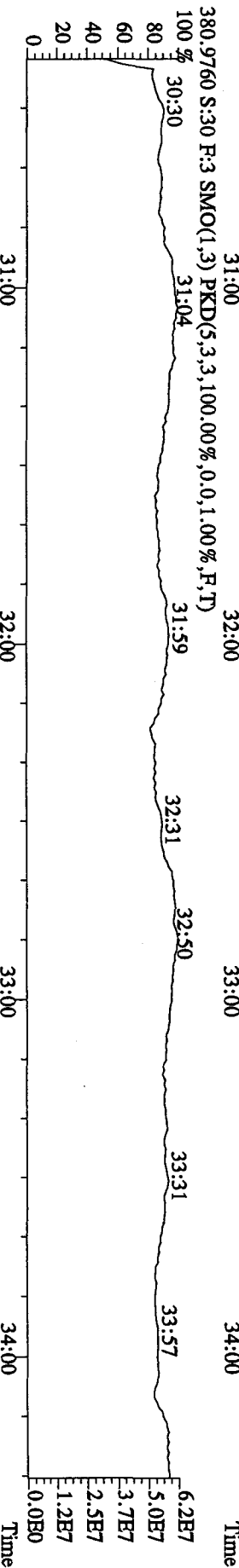
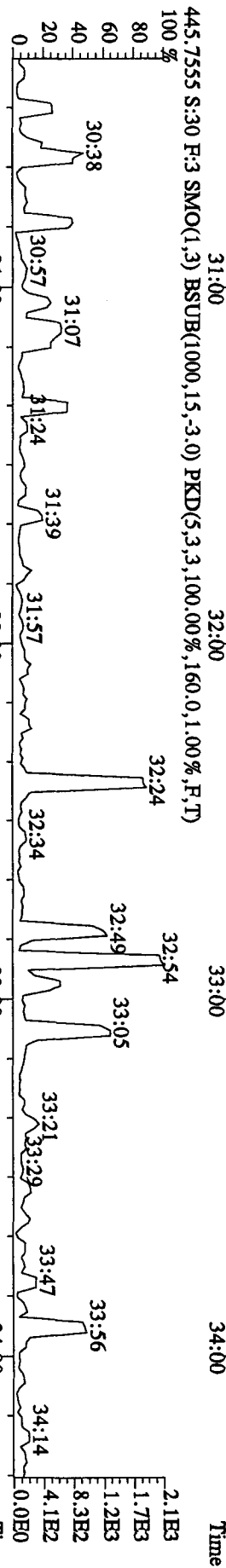
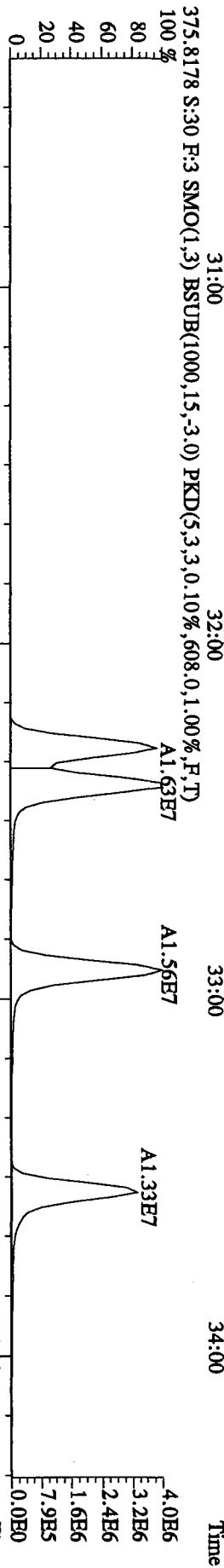
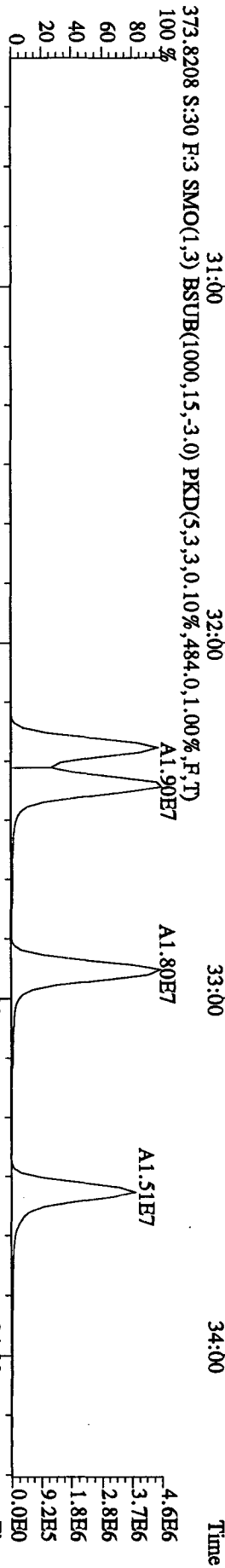
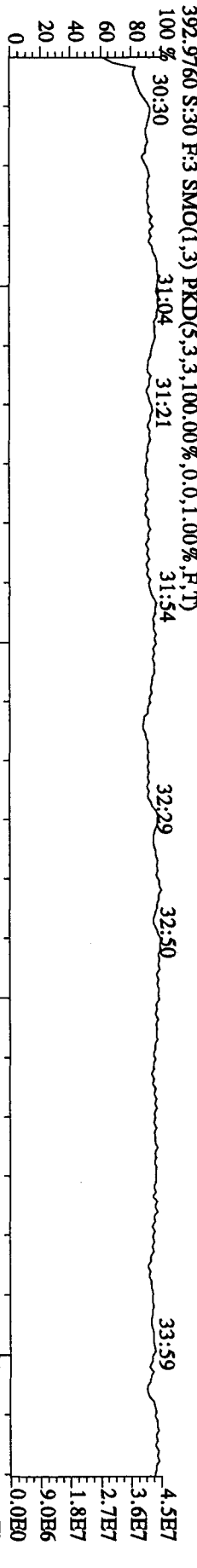
File: 280C104D5 #1-530 Acq: 29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES



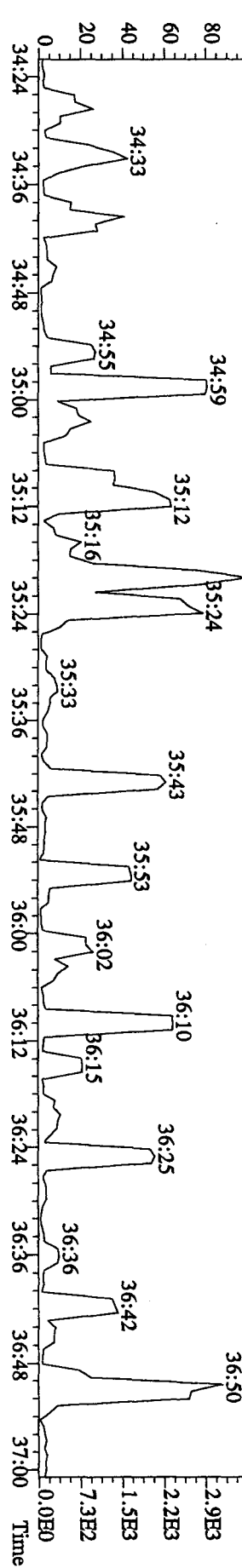
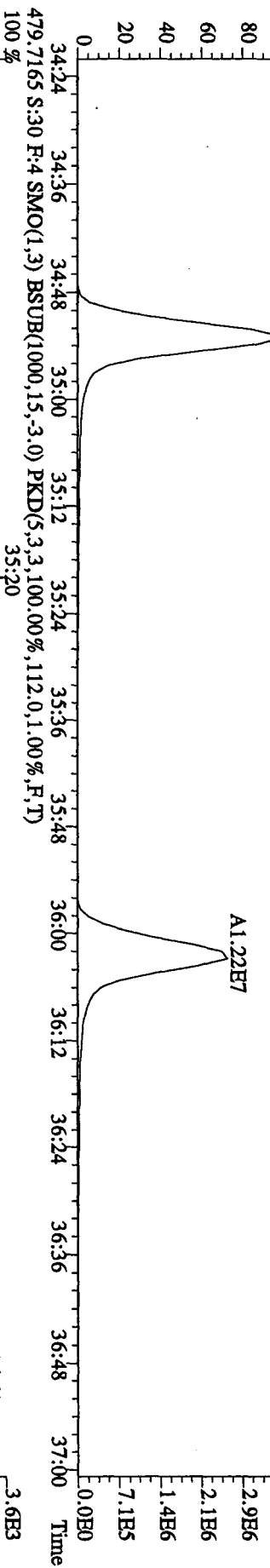
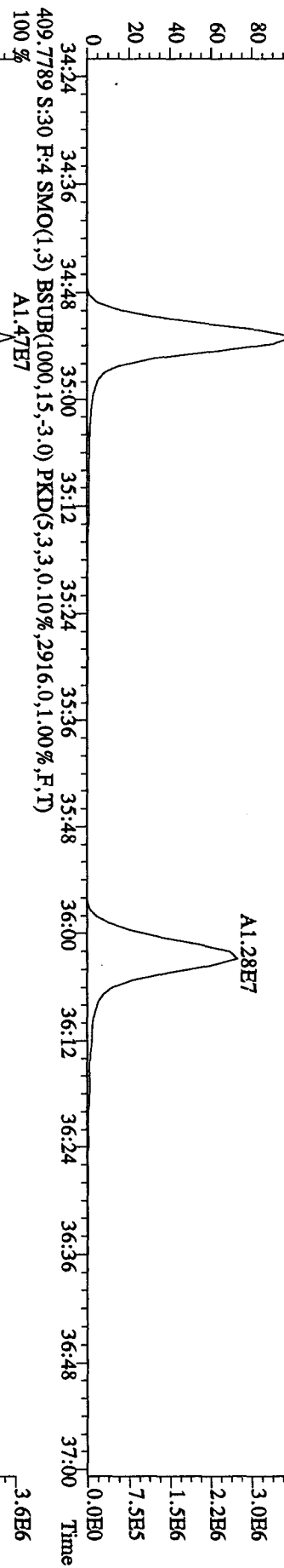
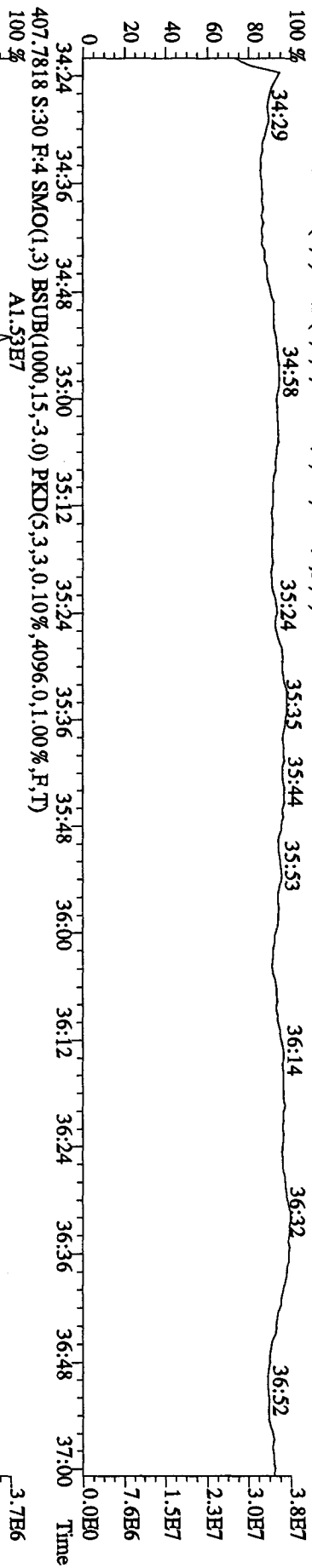
File:28OC104D5 #1-469 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 342.9792 S:30 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:17 24:37 25:33 26:50 27:28 28:26 29:04



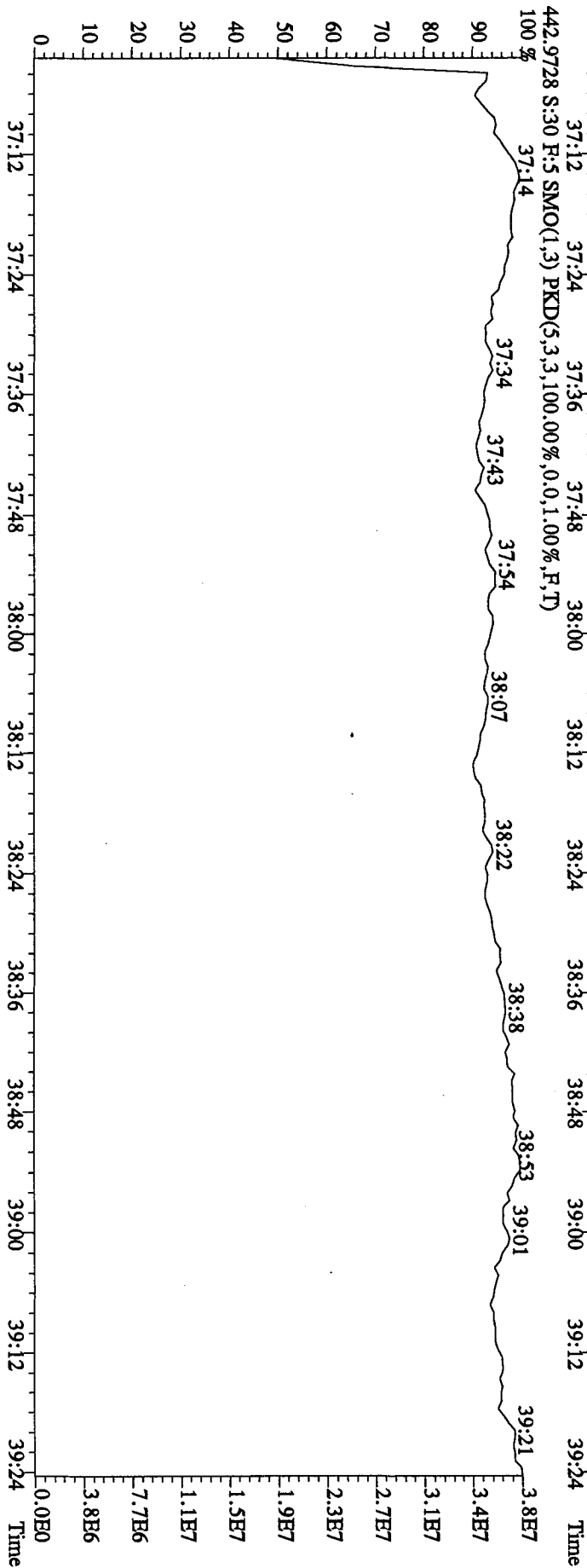
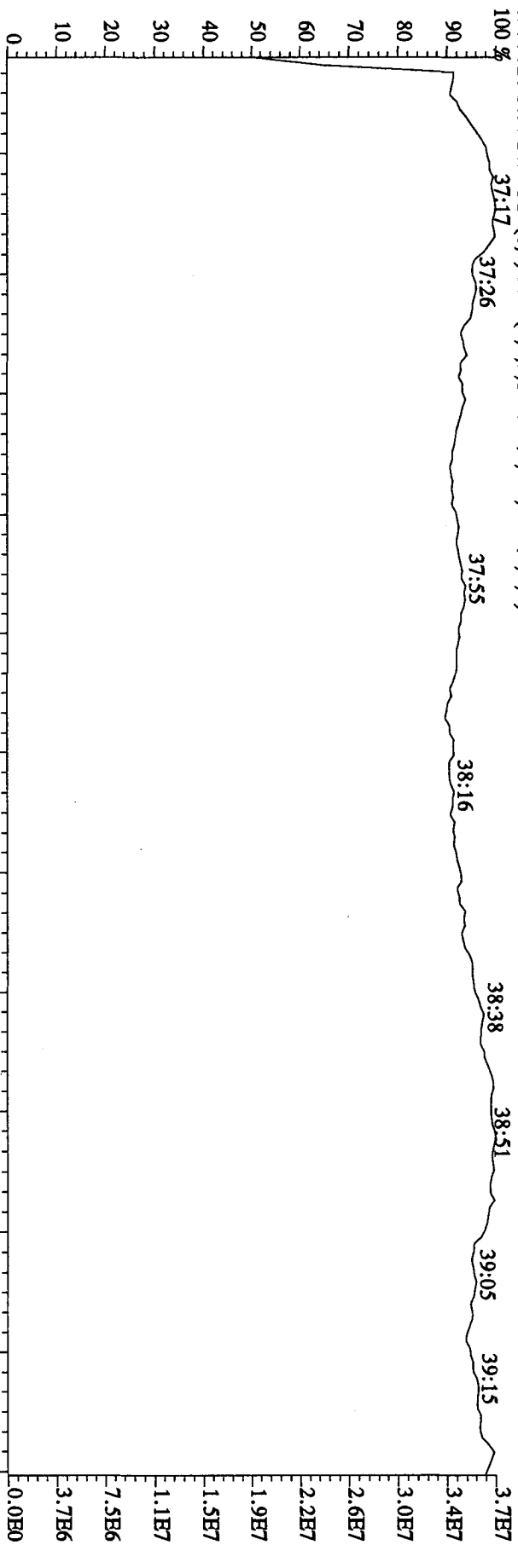
File:280C104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES



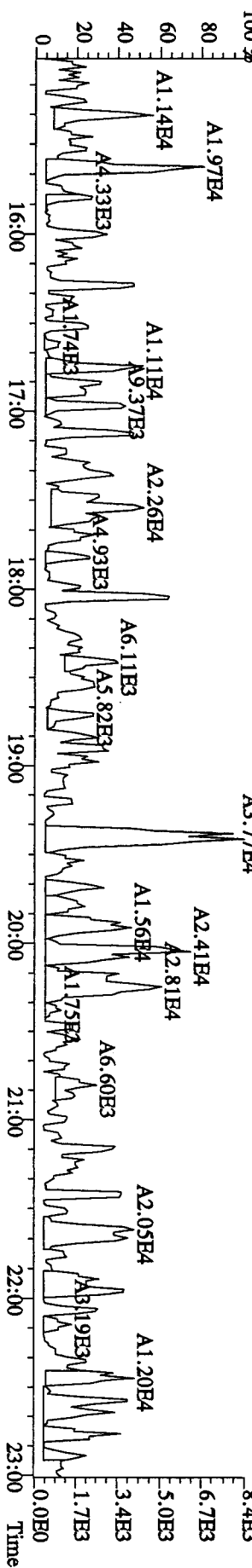
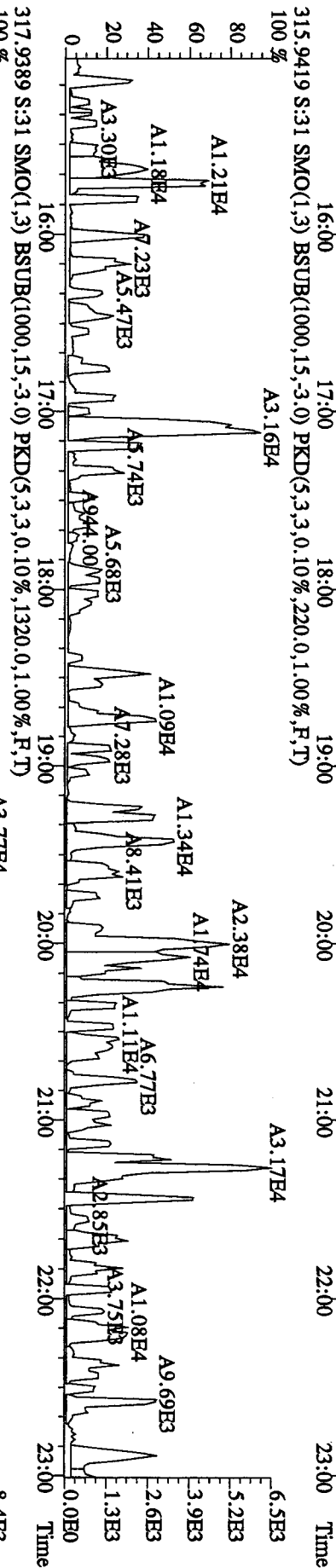
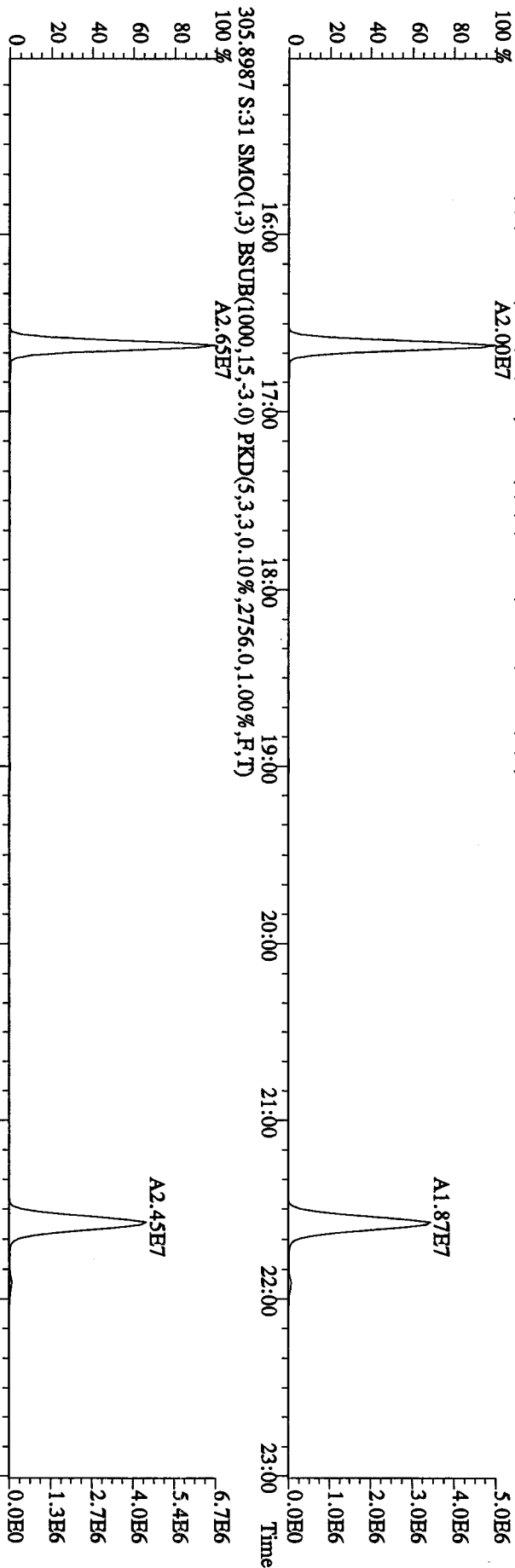
File:28OC104D5 #1-201 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 430.9728 S:30 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



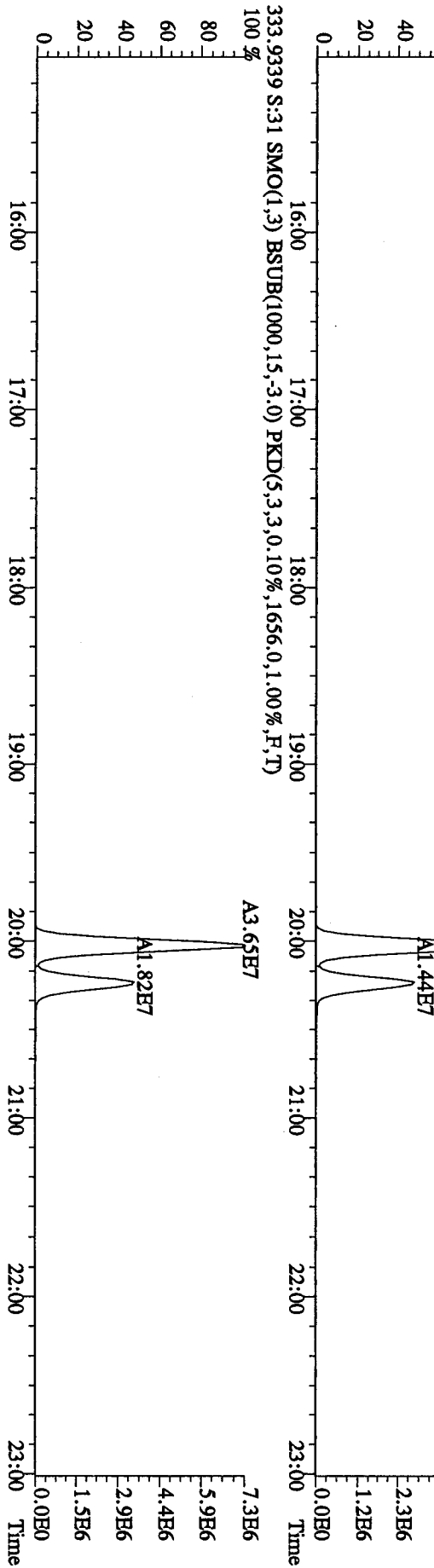
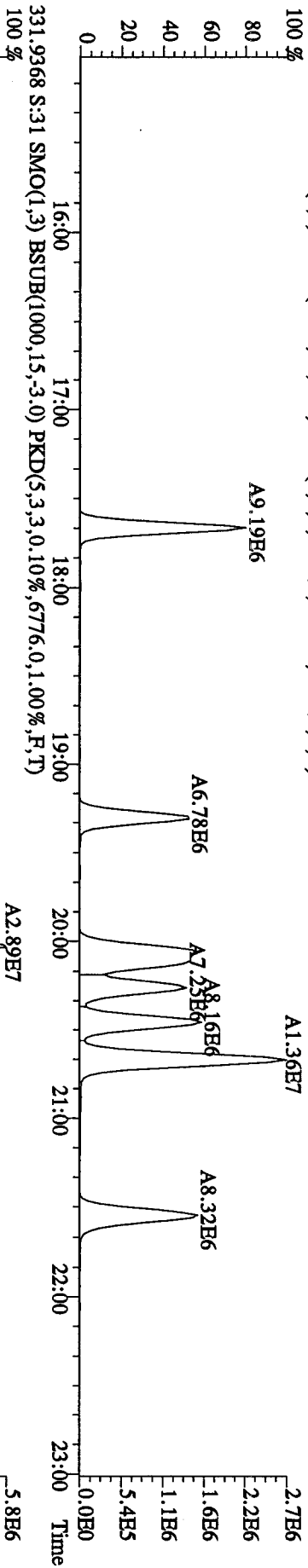
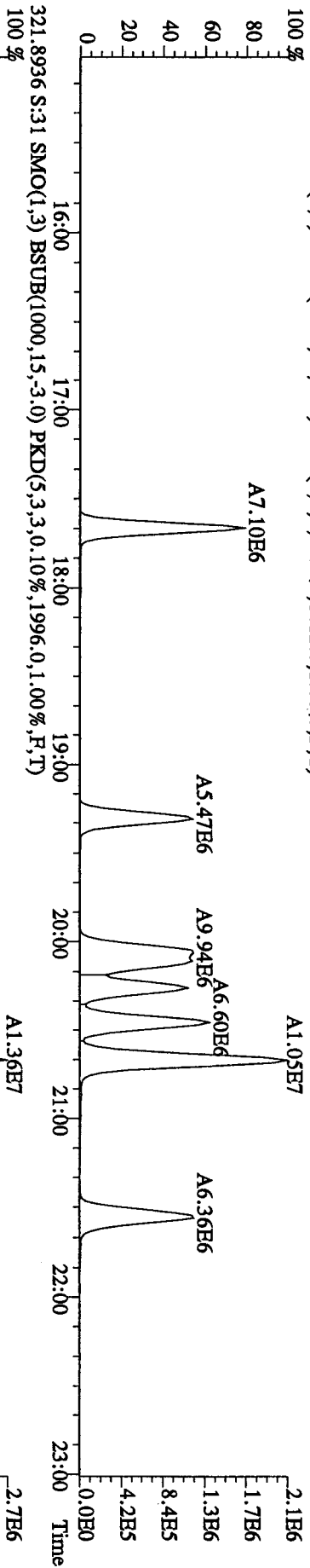
File: 280C104D5 #1-192 Acq: 29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UHMAE
 Sample#30 Text: ST1028C :CS3 10DDXN461 Exp: DIOXINRES
 454.9728 S:30 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



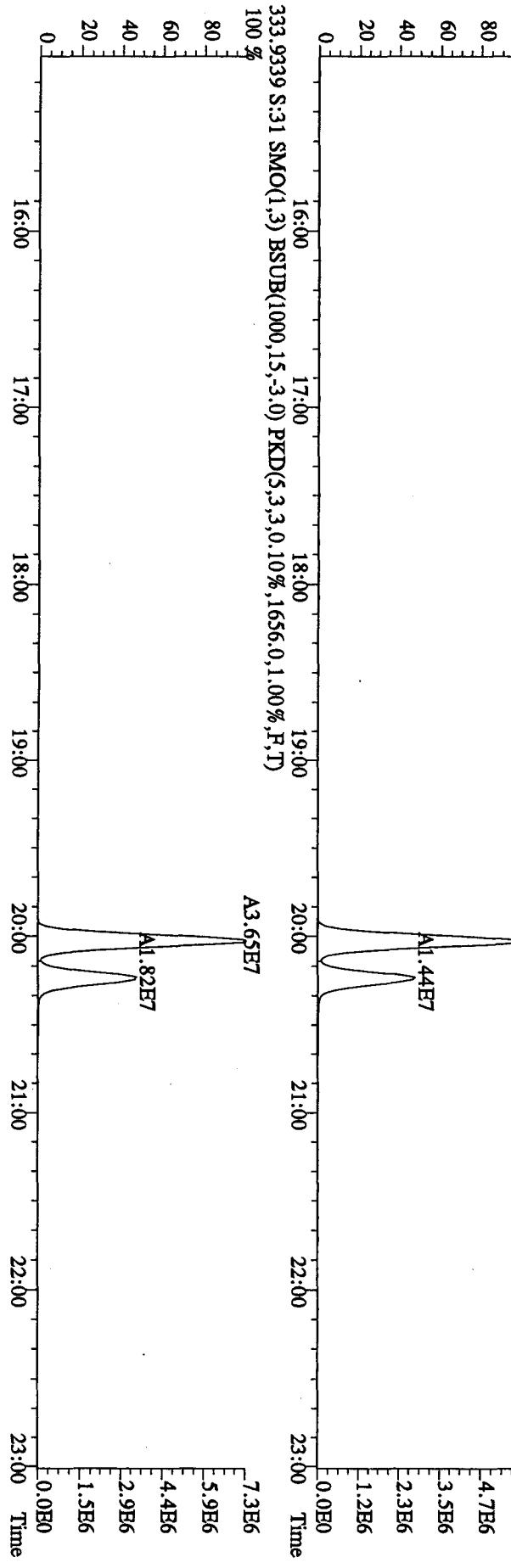
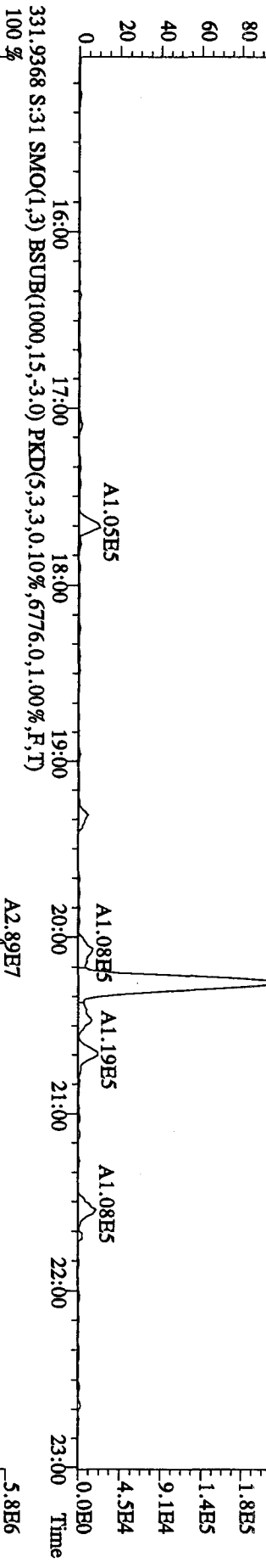
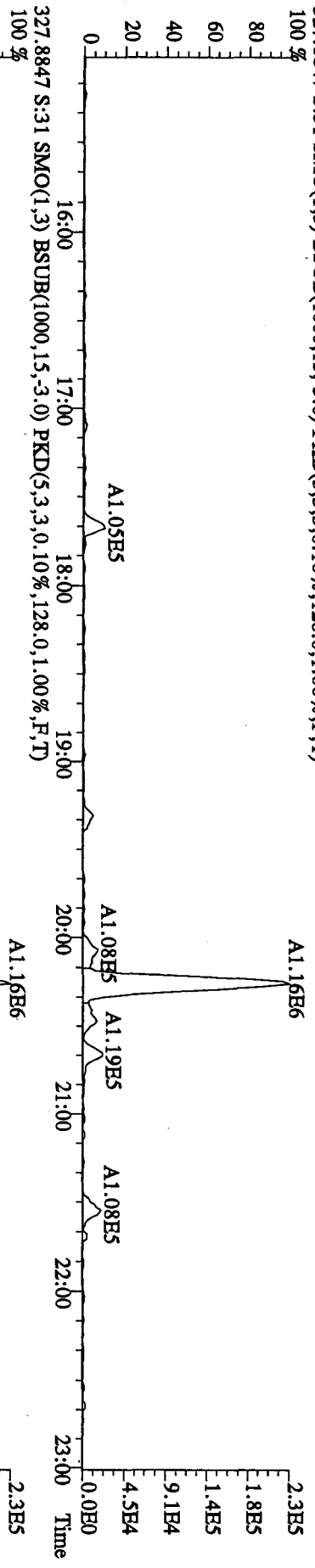
File: 280C104D5 #1-530 Acq: 29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
Sample#31 Text: CP1028A :DB-5 CPSM 3732-10 Exp: DIOXINRES
305.8987 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1376.0,1.00%,F,T)
100% A2.00E7



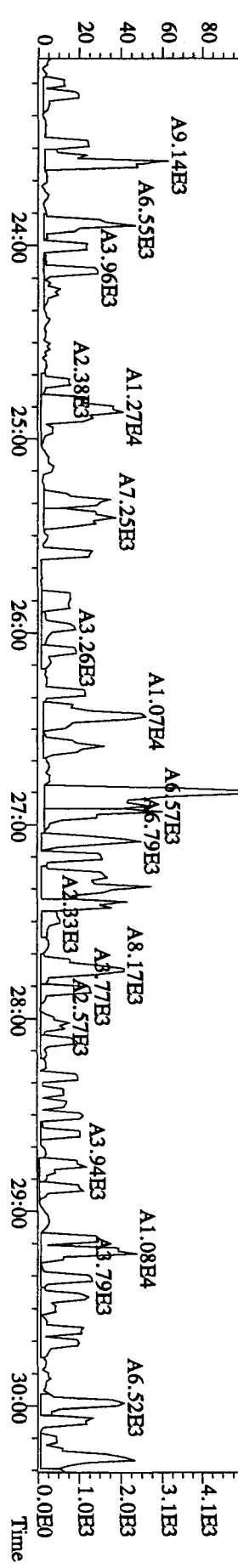
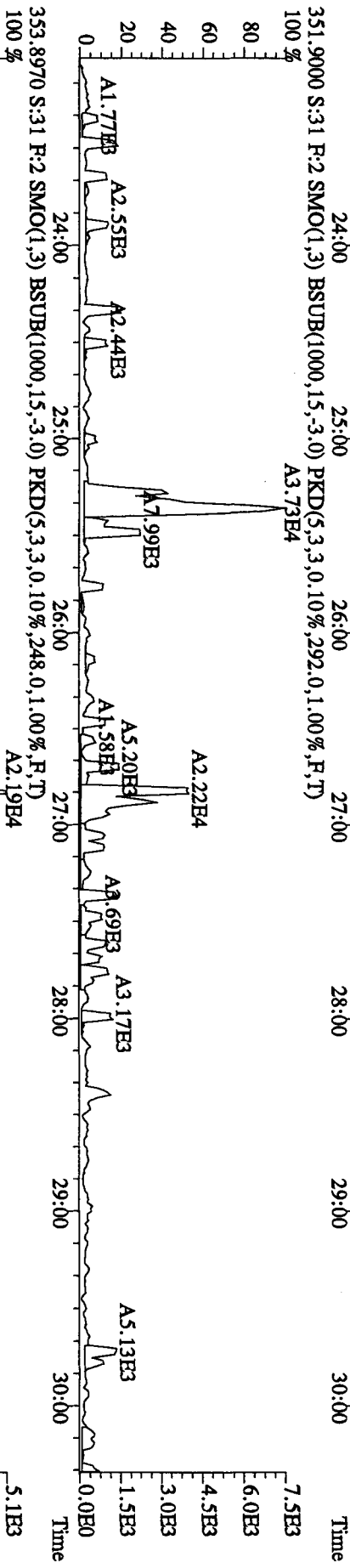
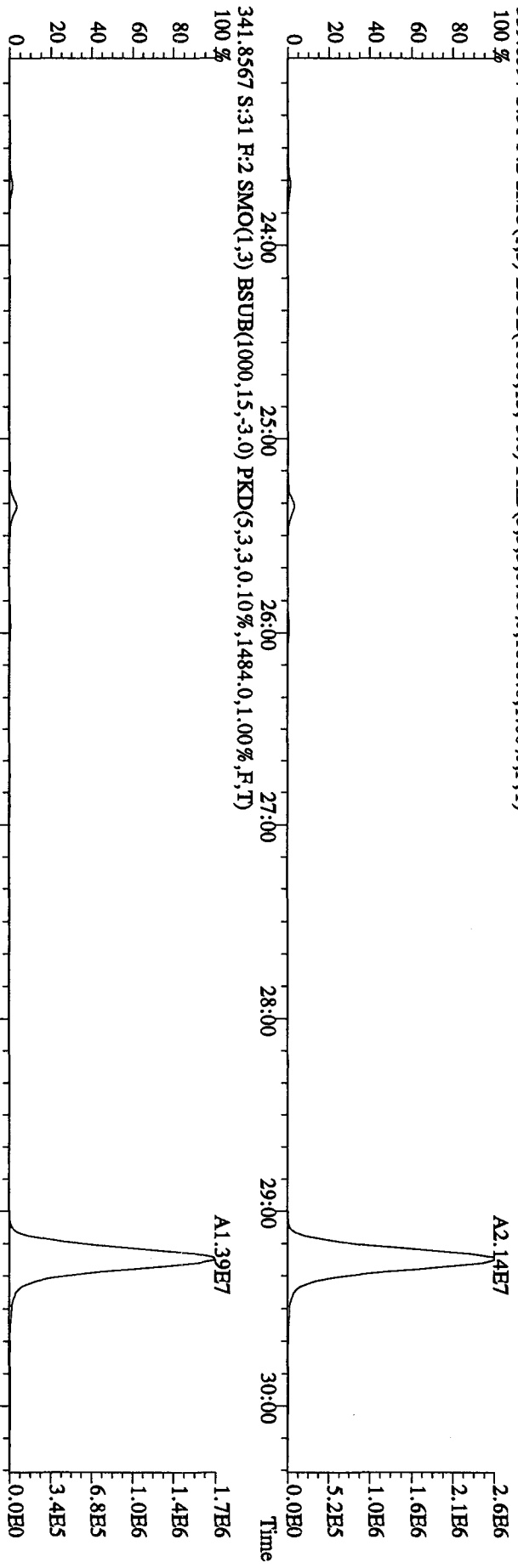
File:28OC104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC HI+ Voltage SIR Autospec-Ultimat
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1412.0,1.00%,F,T)
 100%



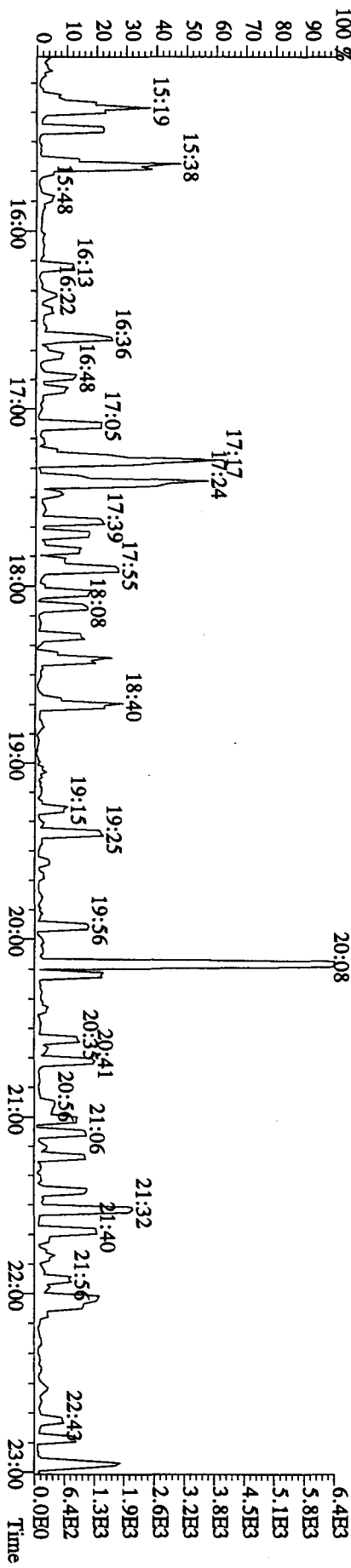
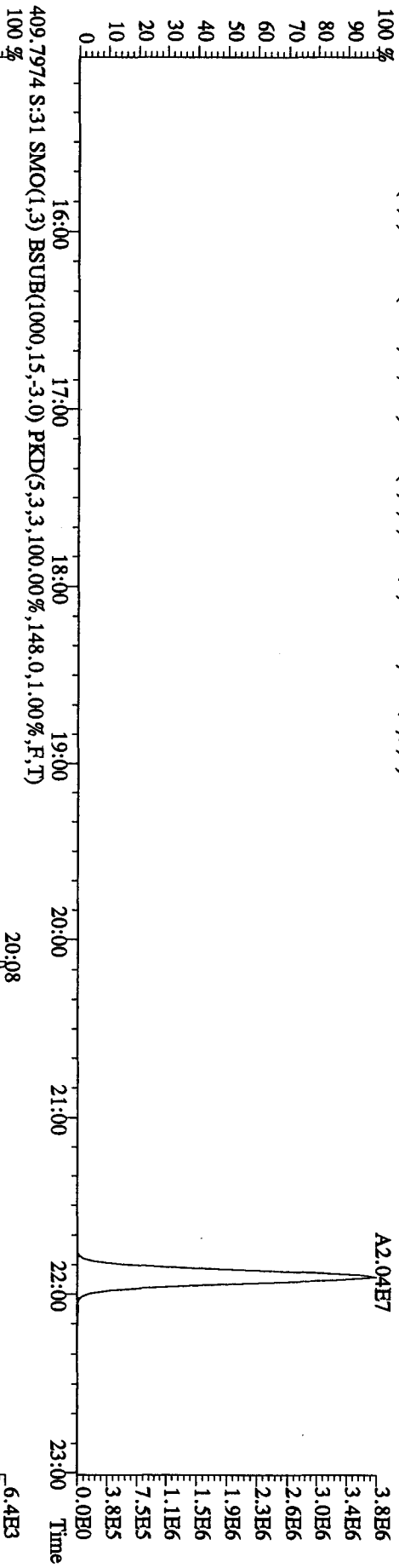
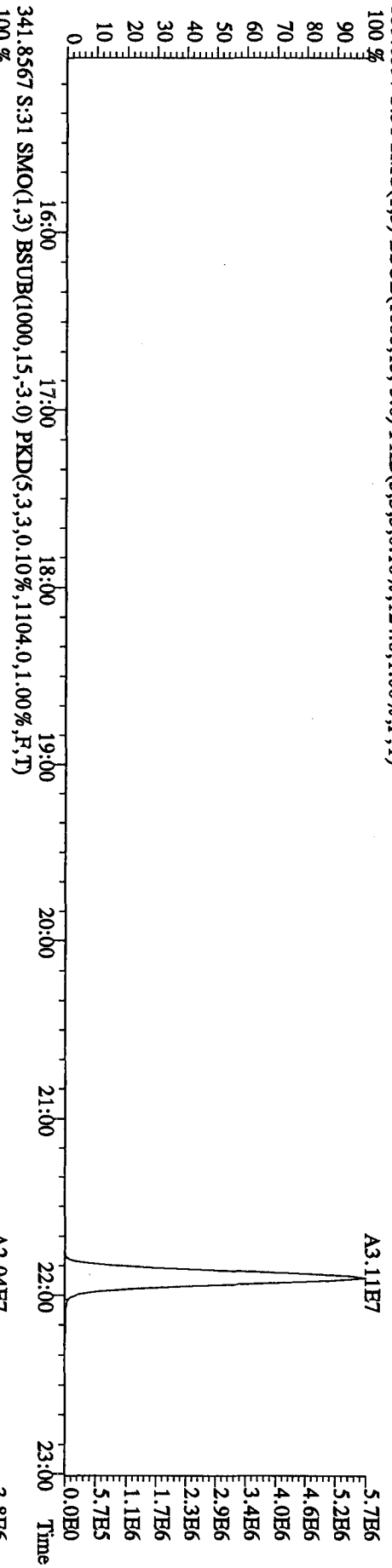
File:280C104D5 #1-530 Acq:29-OCT-2010 07:54:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 327.8847 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



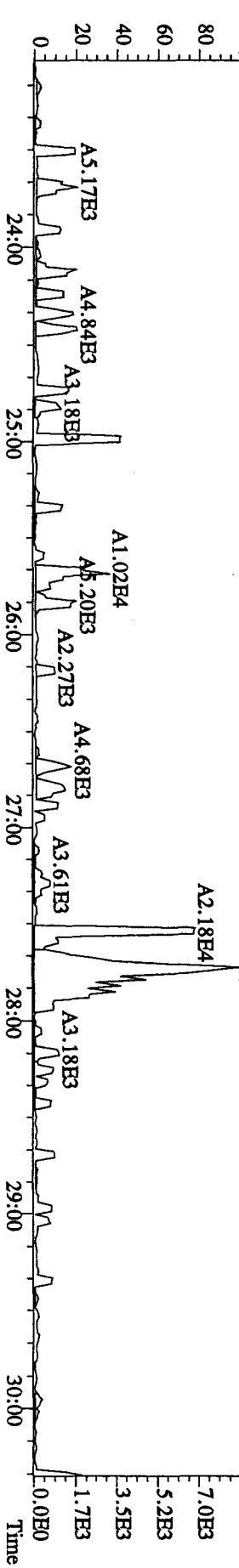
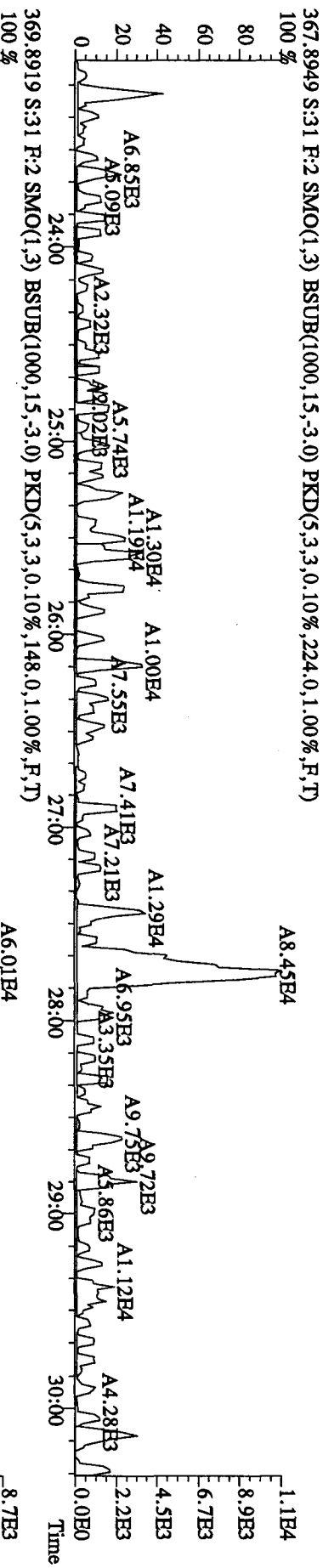
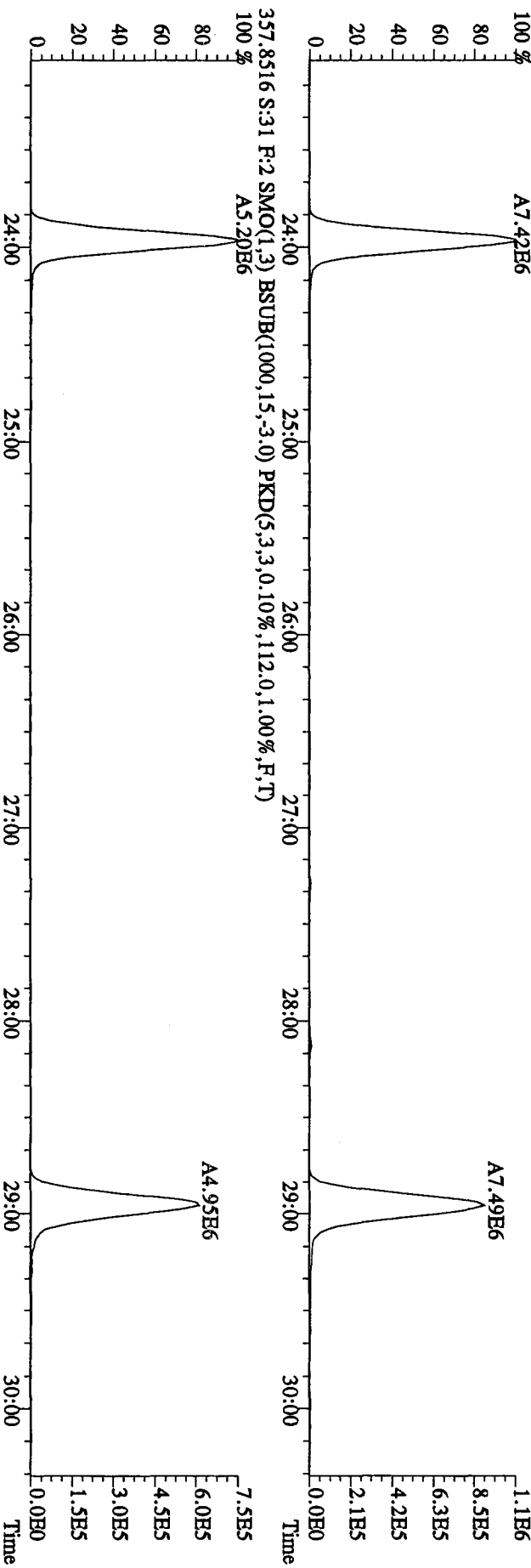
File:280C104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)



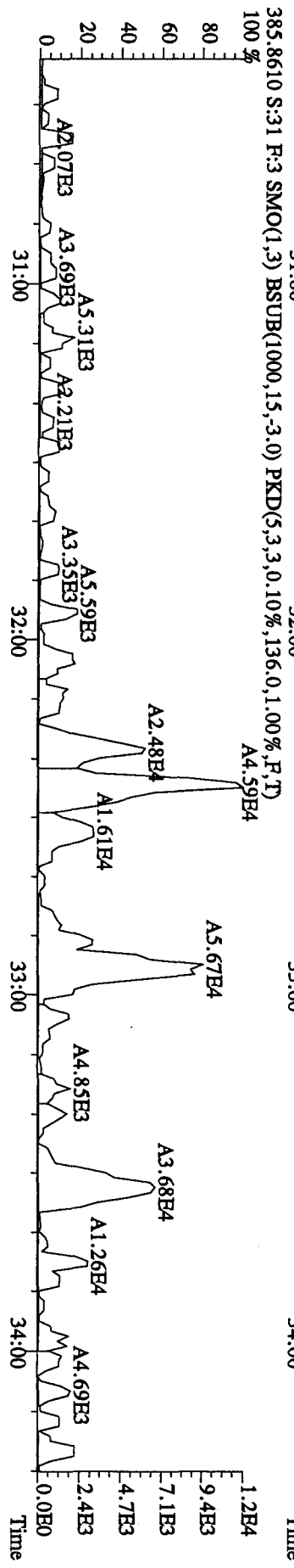
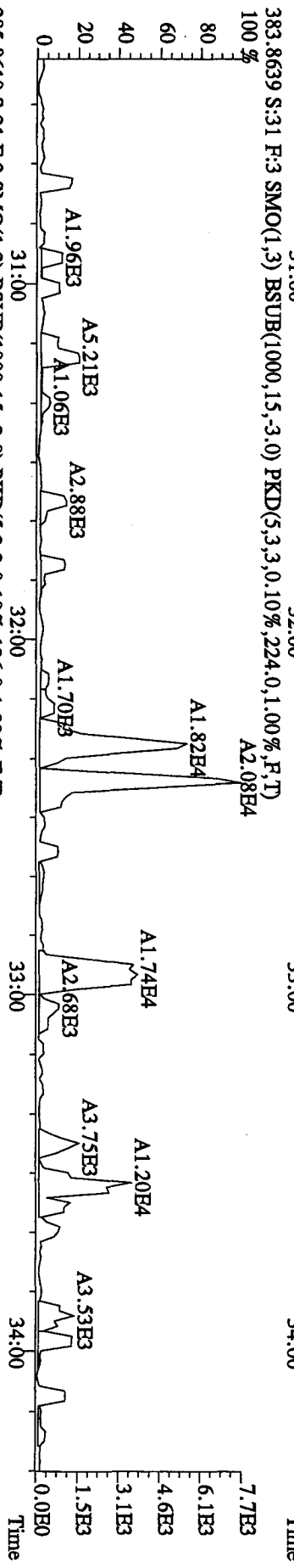
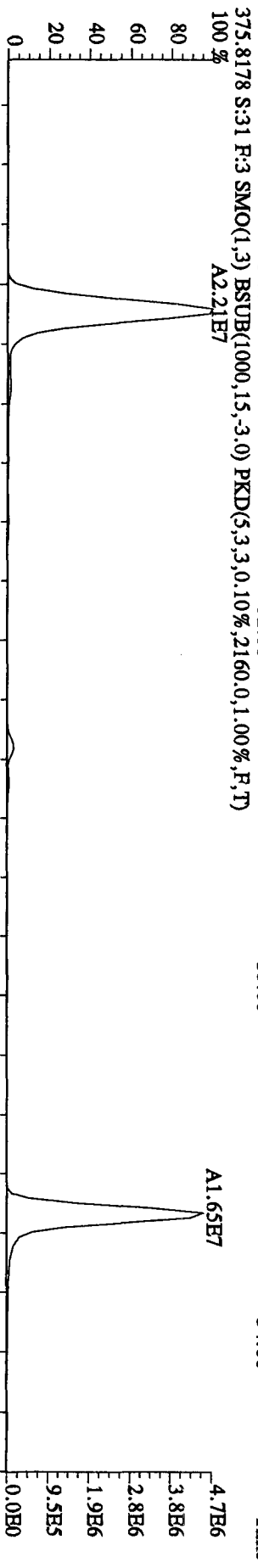
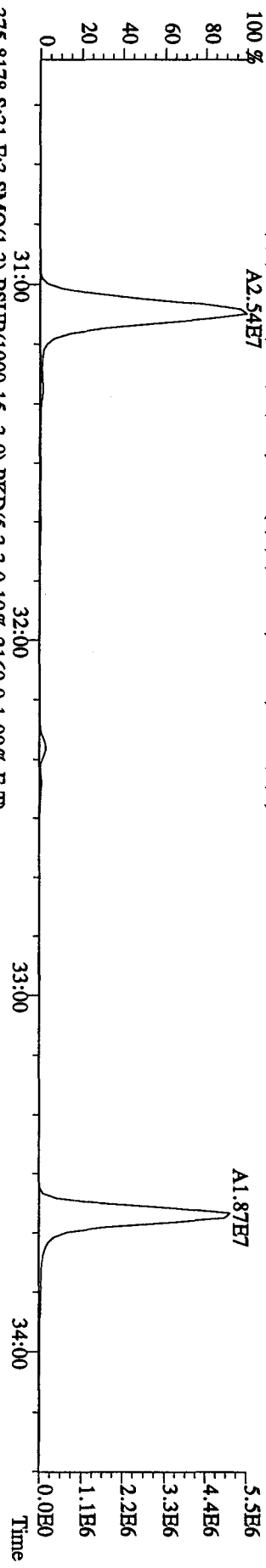
File:280C104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 339.8597 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)



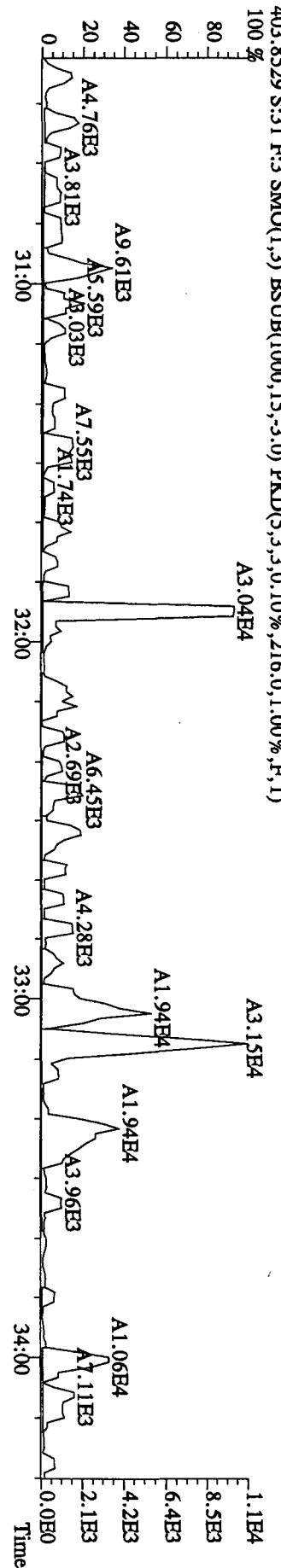
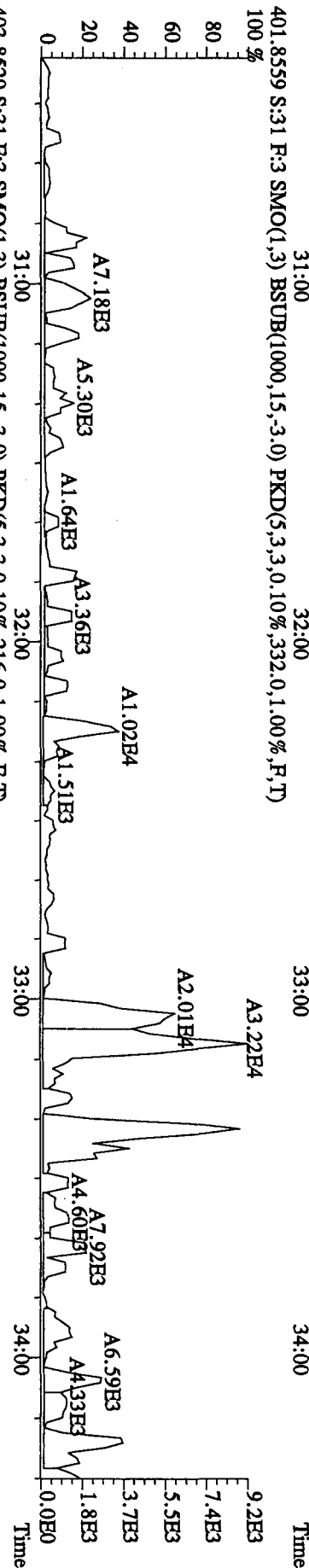
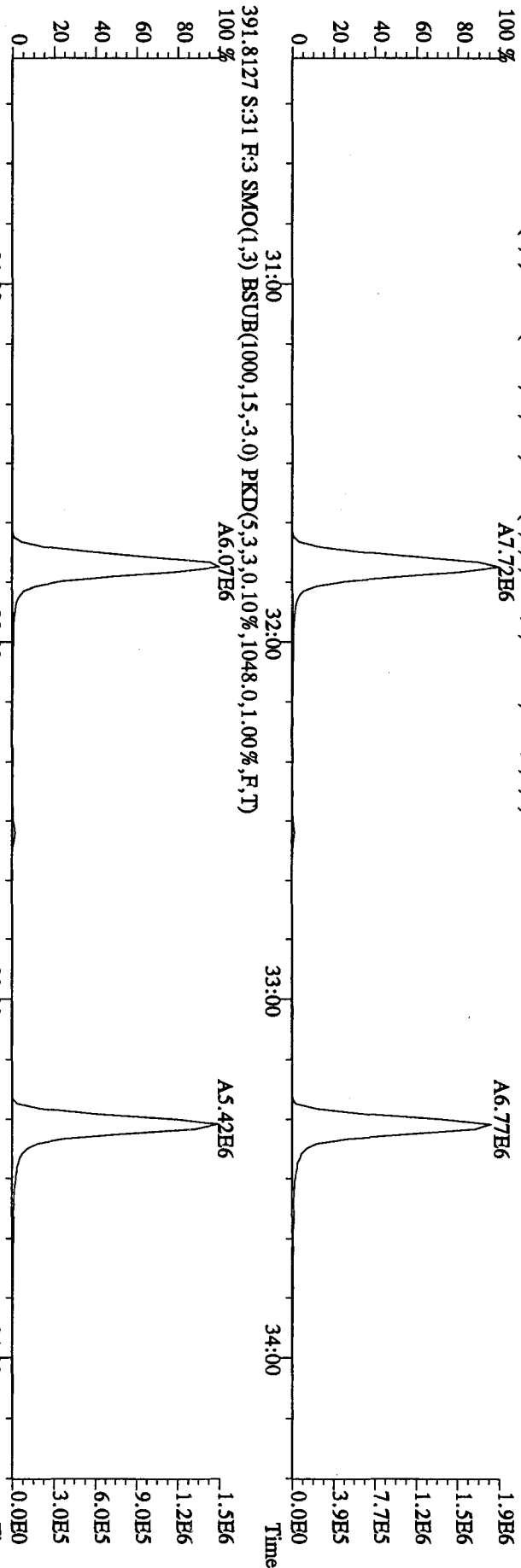
File:280C104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 357.8516 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,112.0,1.00%,F,T)
 100% A7.42E6



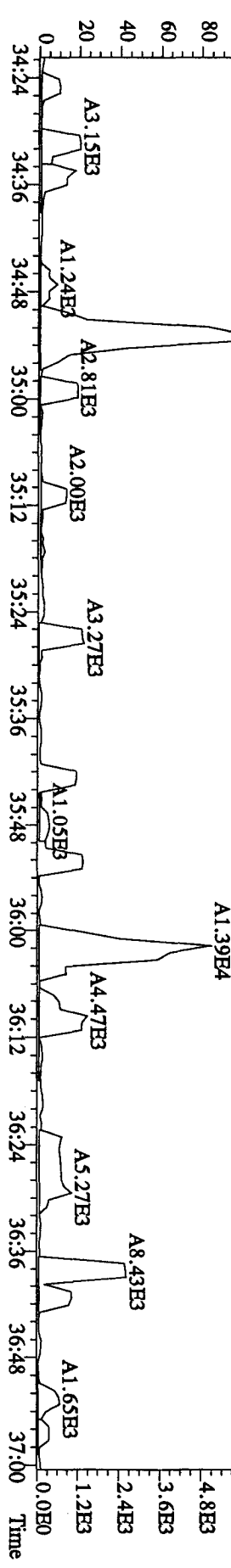
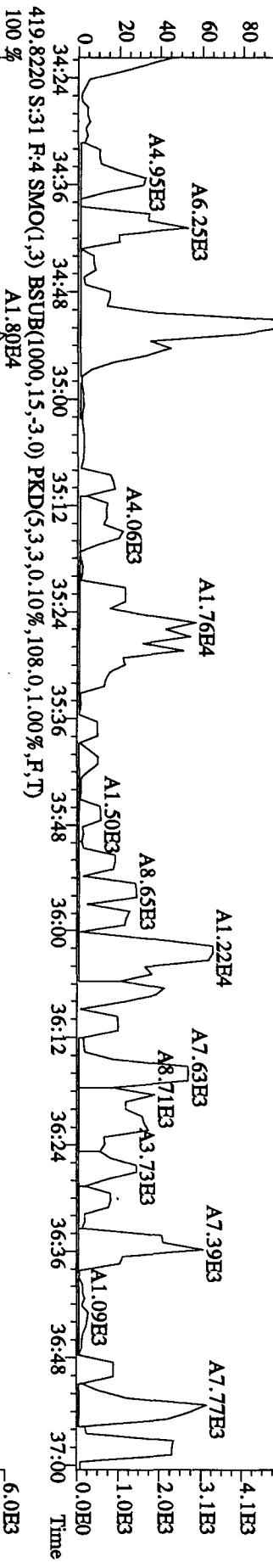
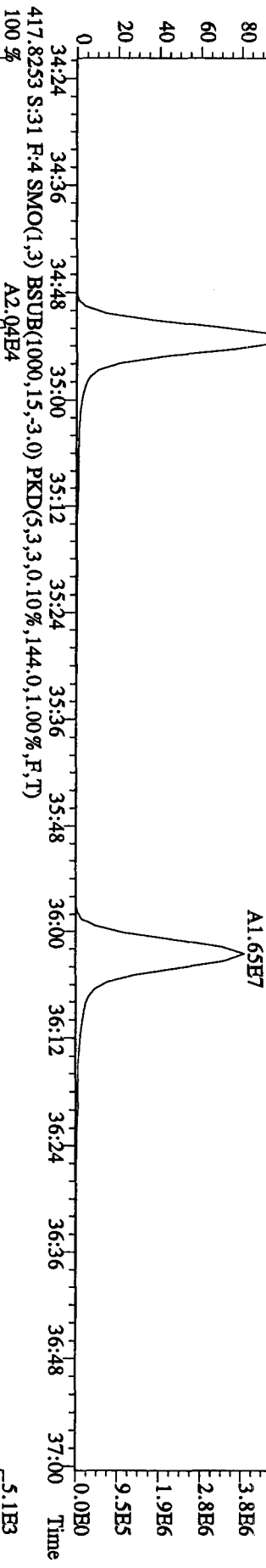
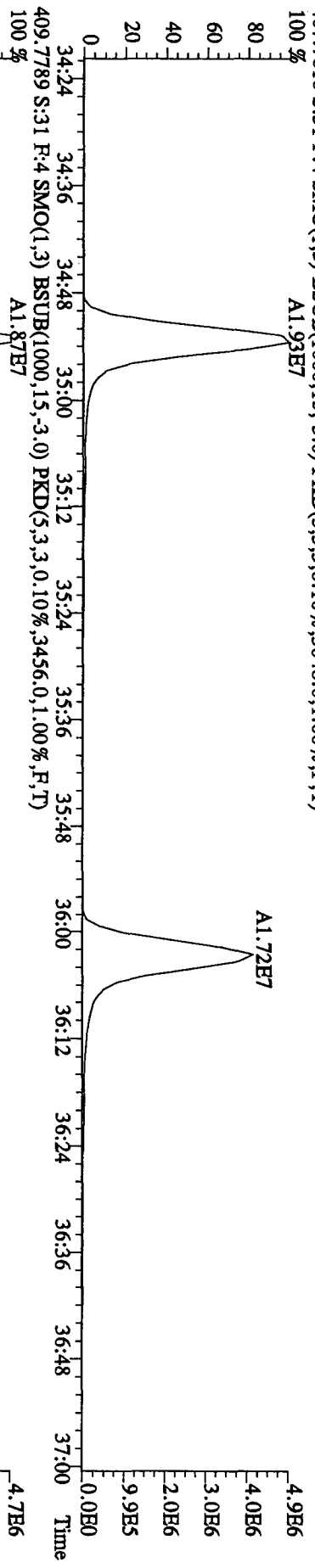
File: 28OC104D5 #1-286 Acq: 29-OCT-2010 07:54:58 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#31 Text: CP1028A :DB-5 CPSM 3732-10 Exp: DIOXINRES
 373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2160,0,1,00%,F,T)
 100%



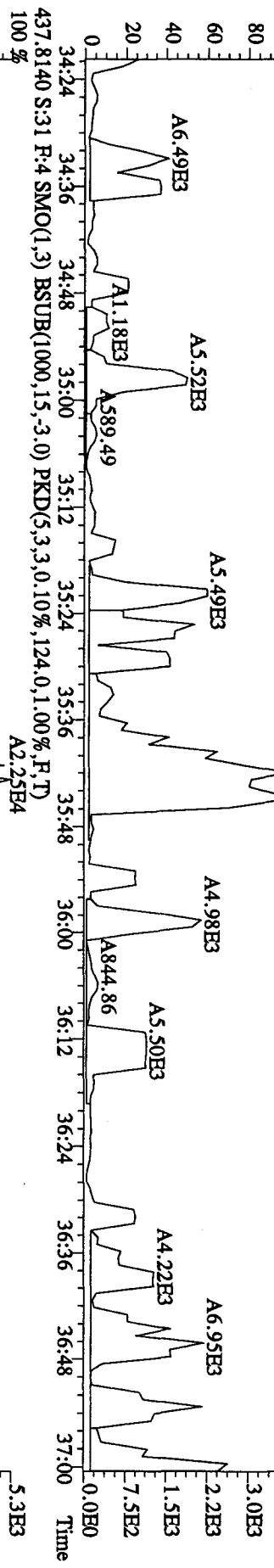
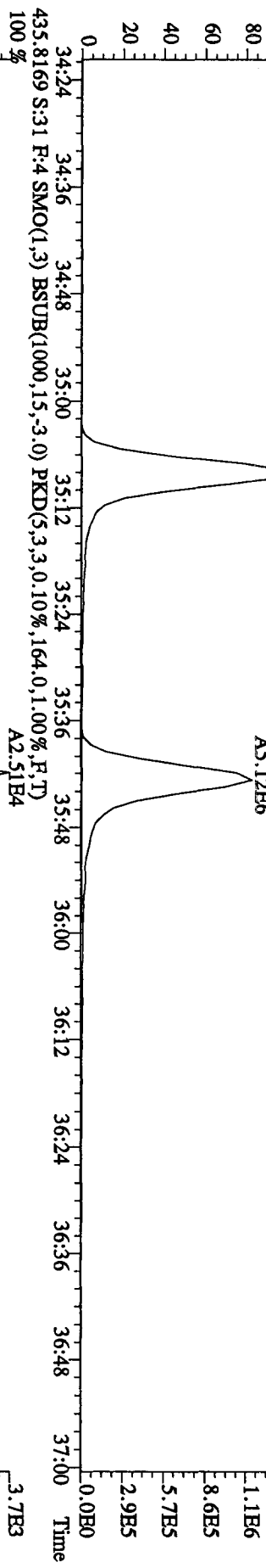
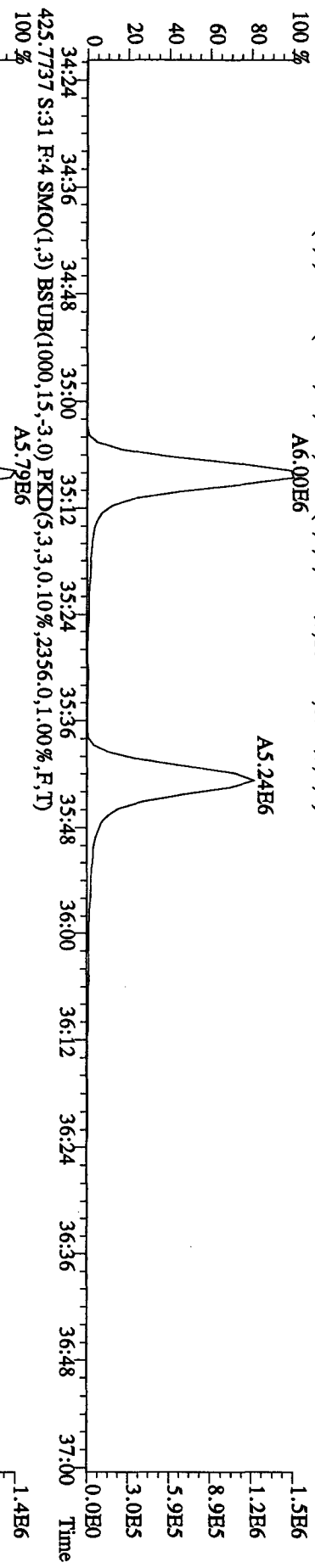
File:280C104D5 #1-286 Acq:29-OCT-2010 07:54:58 GC HI + Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 389.8157 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104,0.1,00%,F,T)
 100% A7.72E6



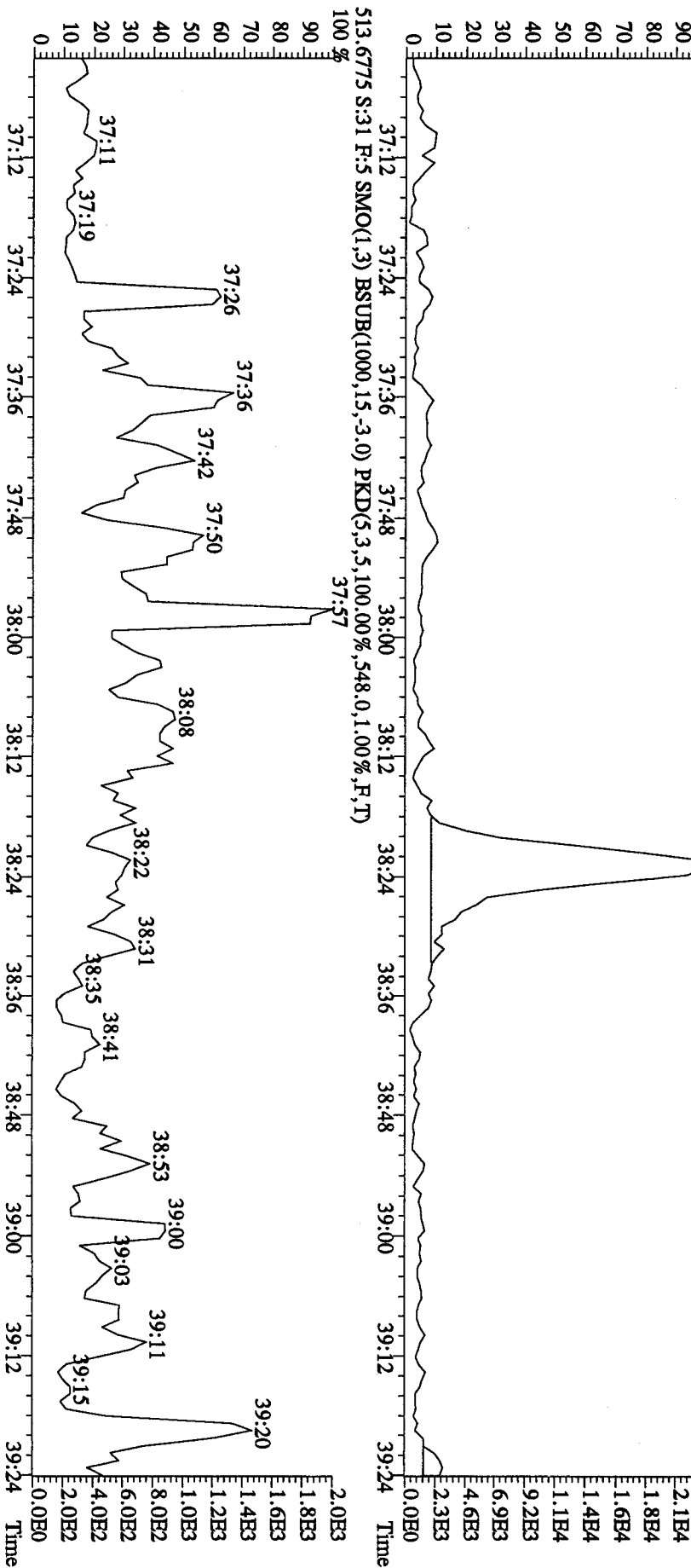
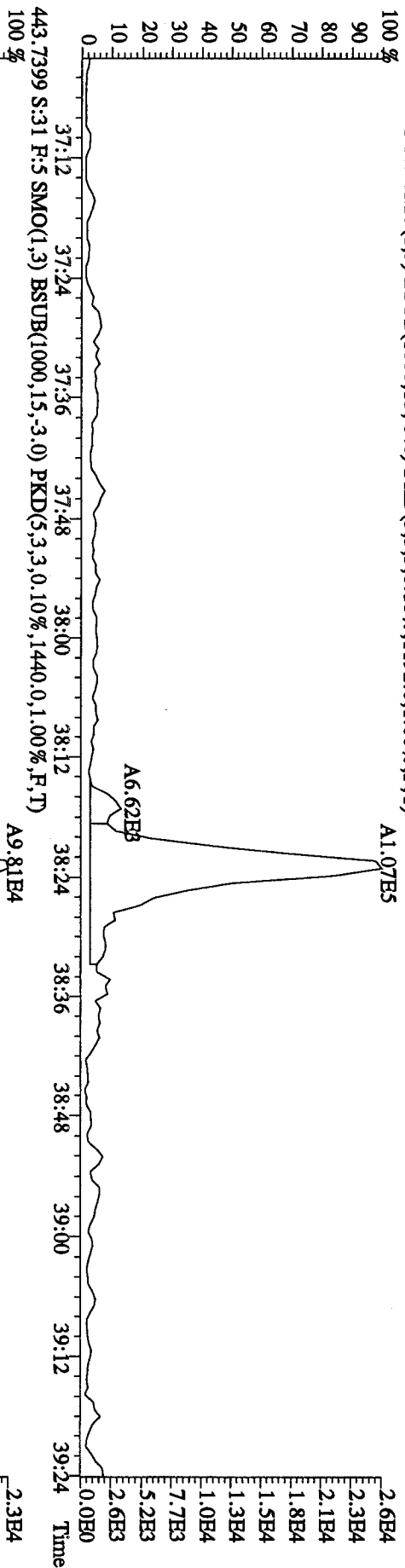
File:28OC104D5 #1-201 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3048,0,1.00%,F,T)



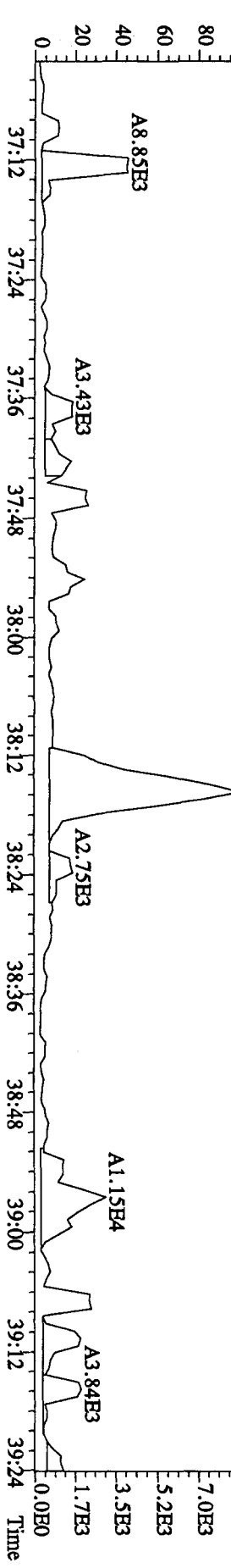
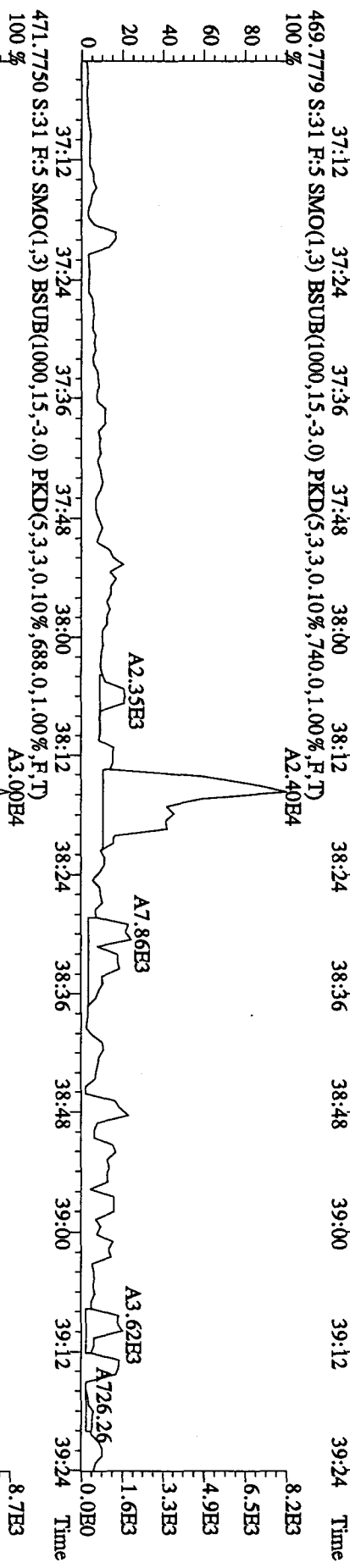
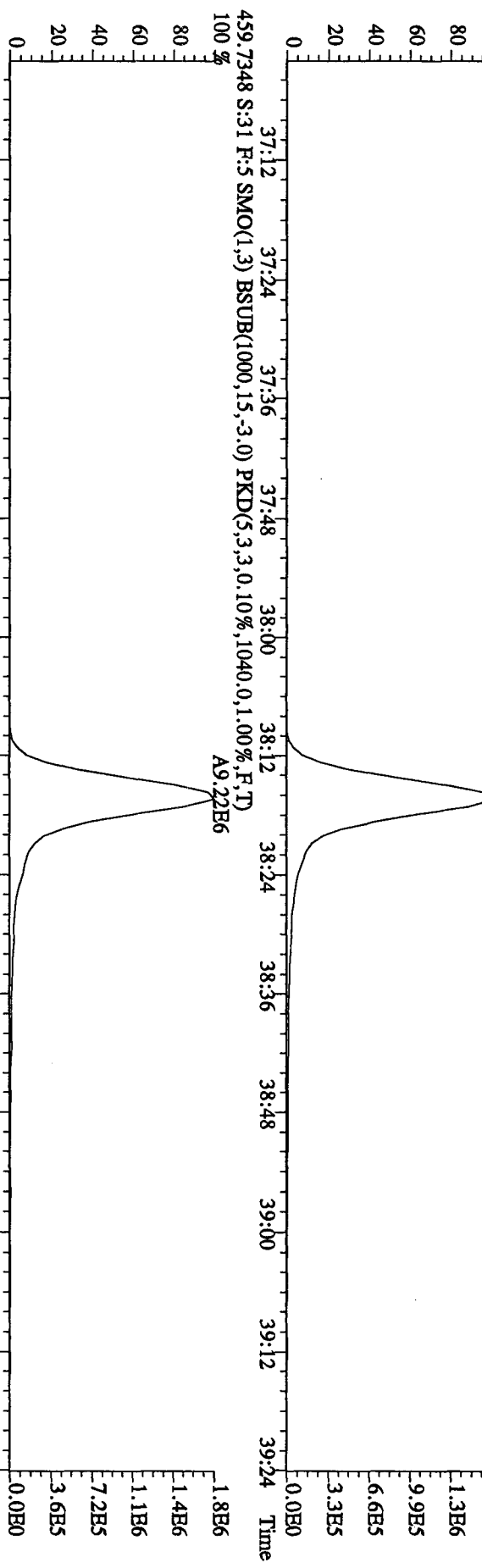
File:280C104D5 #1-201 Acq:29-OCT-2010 07:54:38 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text:CP1028A :DB-5 CFSM 3732-10 Exp:DIOXINRES
 423.7766 S:31 R:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1864,0,1.00%,F,T)



File: 280C104D5 #1-192 Acq: 29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text: CPI028A :DB-5 CPSM 3732-10 Exp: DIOXINRES
 441.7428 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,F,T)

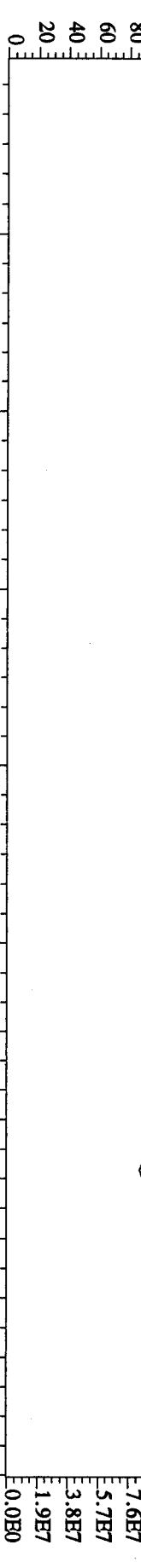


File:280C104D5 #1-192 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 457.7377 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)
 100%

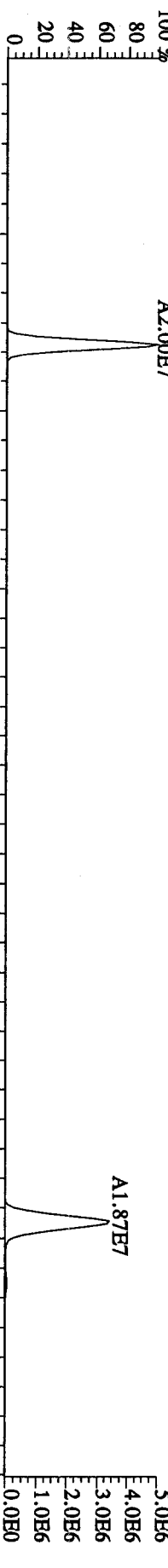


Sample#31 Text: CP1028A :DB-5 CPSM: 3732-10 Exp: DIOXINRES

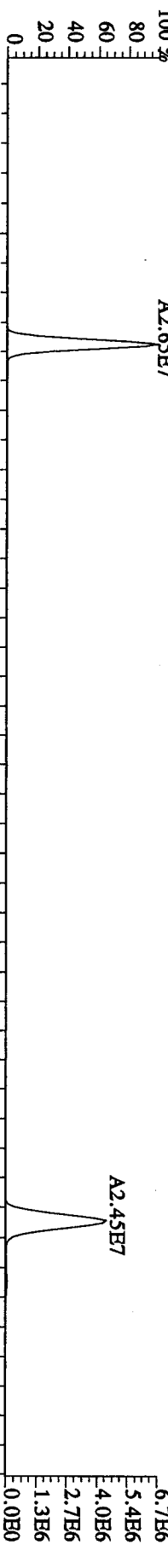
292.9825 S:31 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



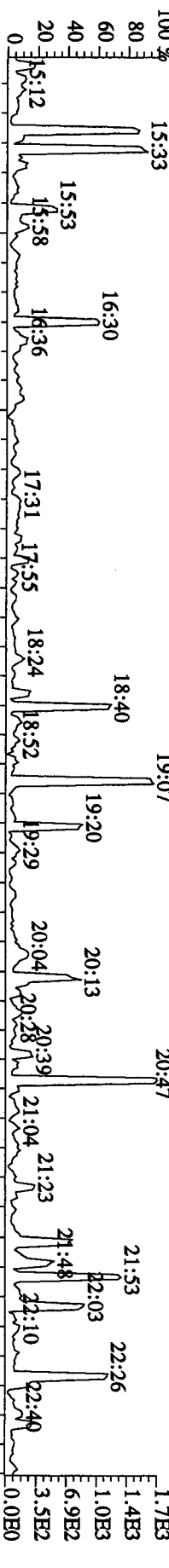
303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1376,0,1.00%,F,T)



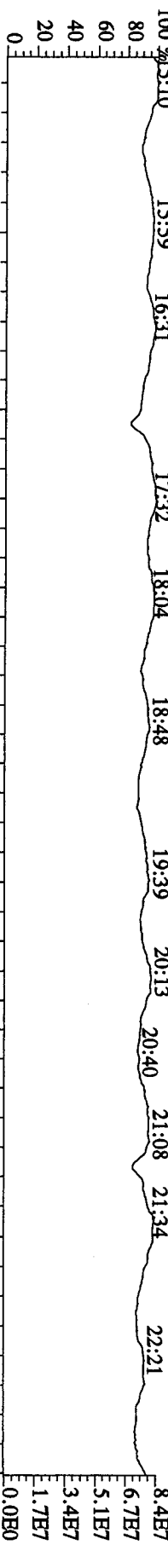
305.8987 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2756,0,1.00%,F,T)



375.8364 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,128,0,1.00%,F,T)



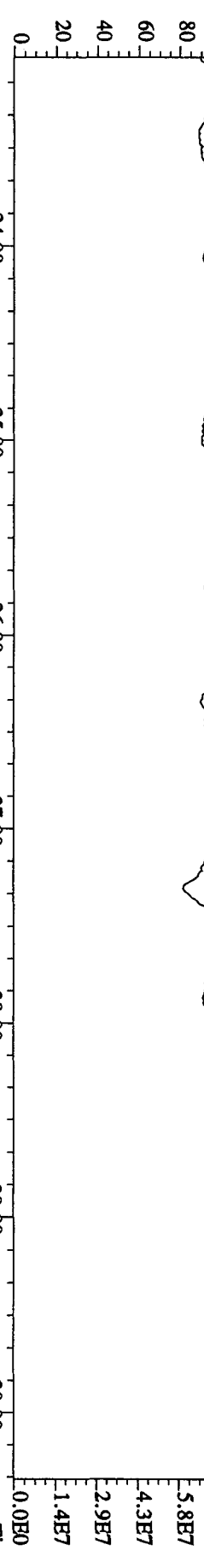
330.9792 S:31 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



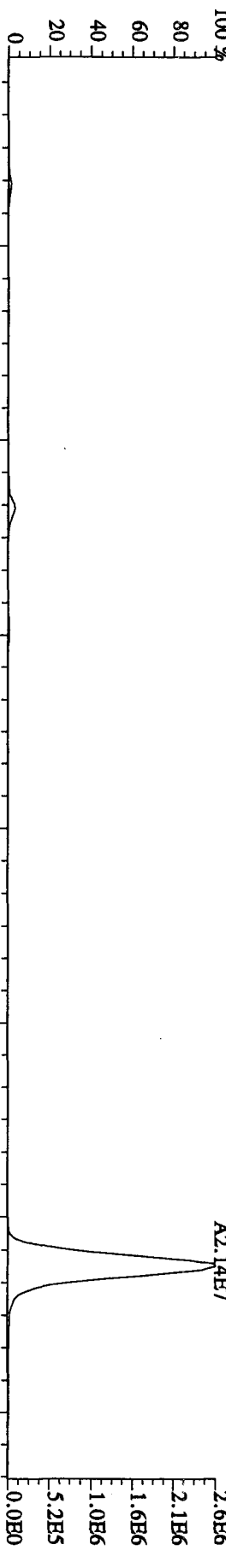
File:280C104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE

Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES

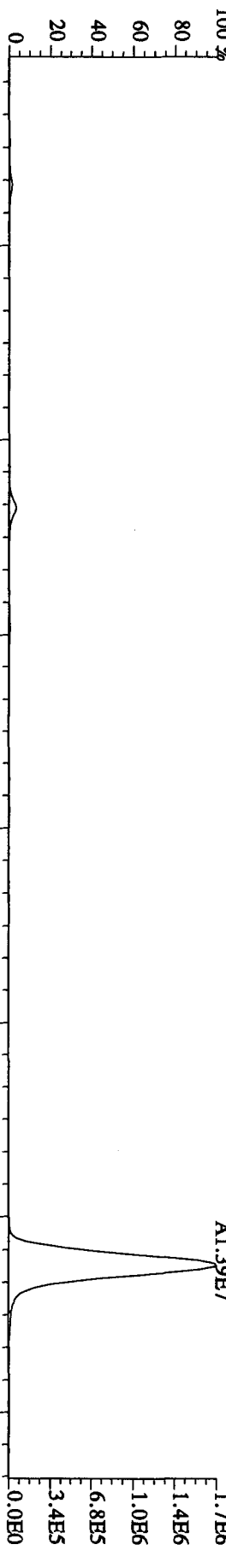
342.9792 S:31 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



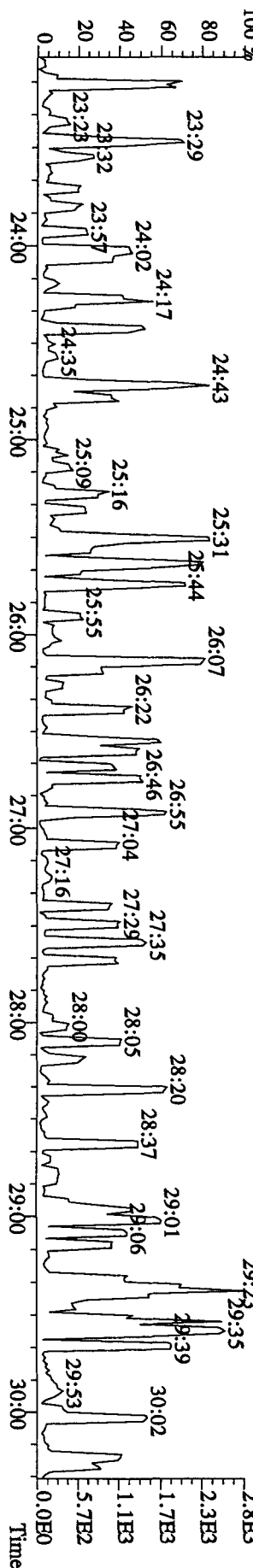
339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)

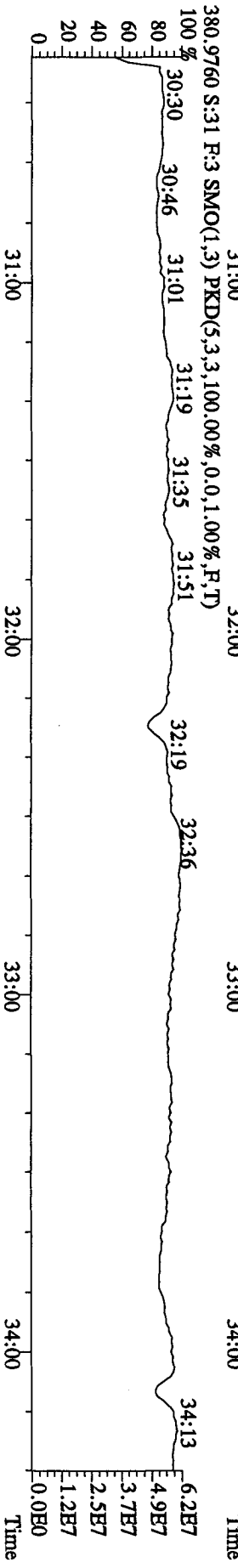
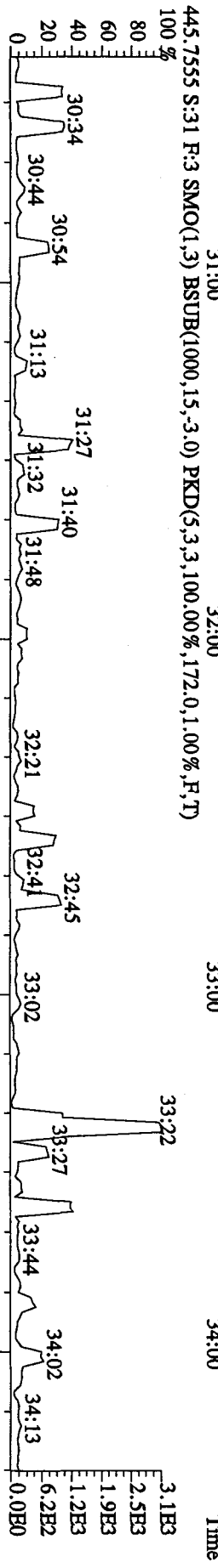
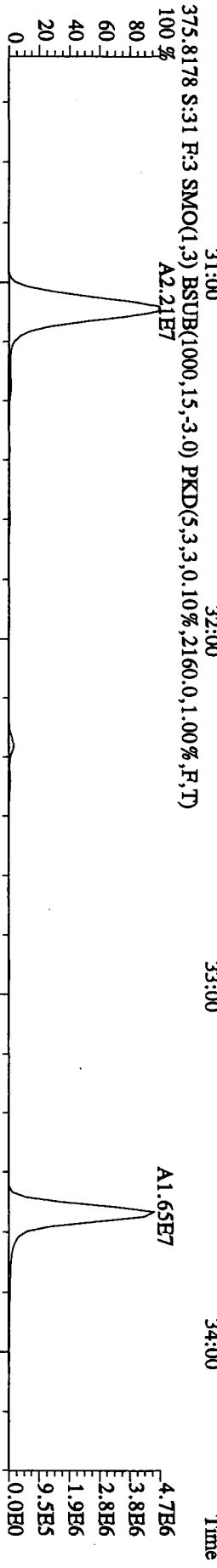
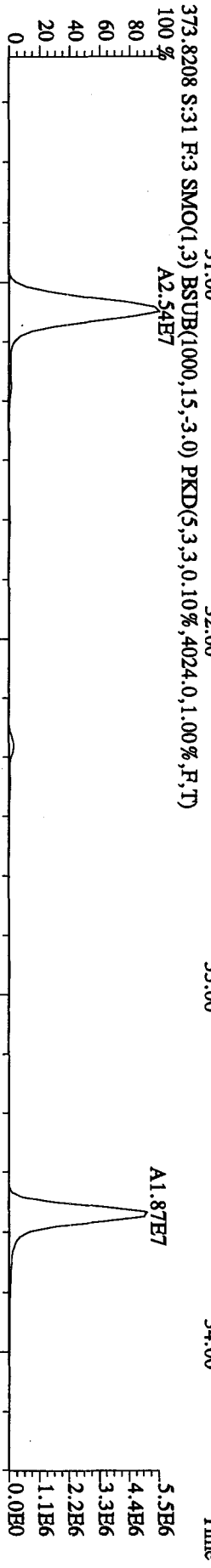
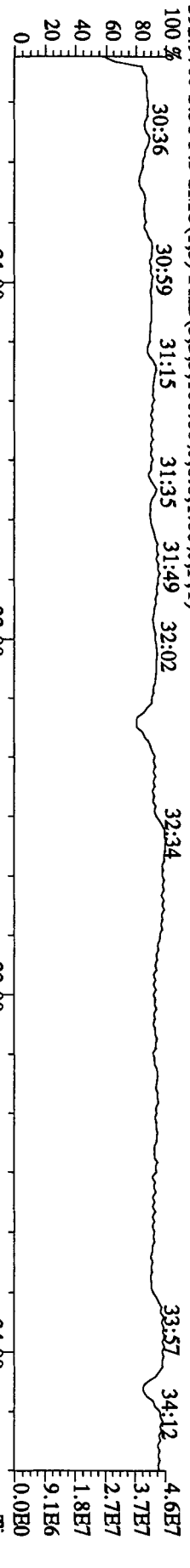


341.8567 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)

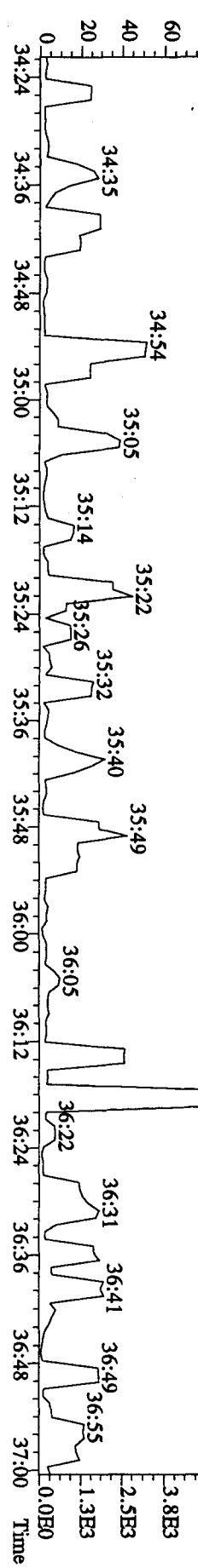
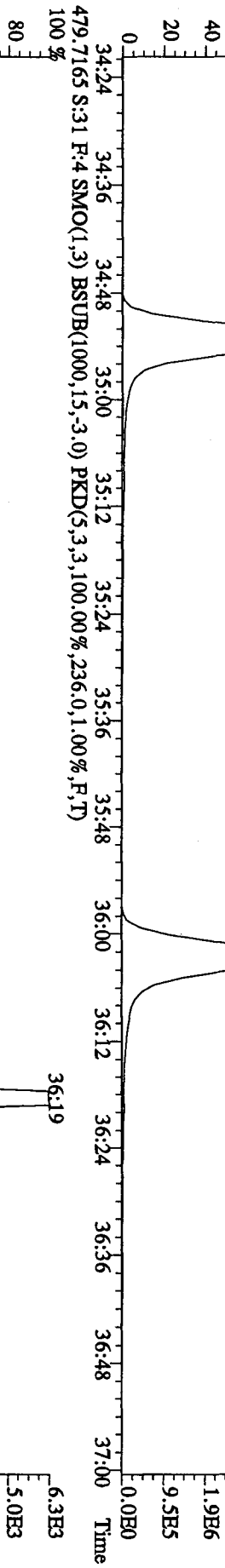
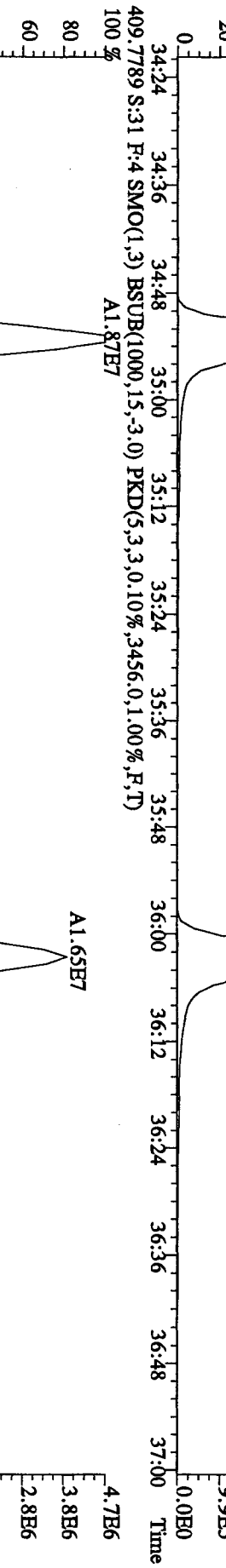
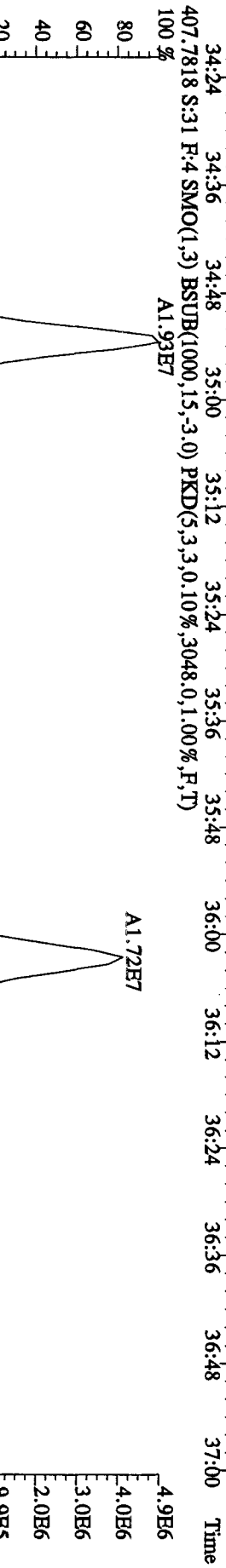
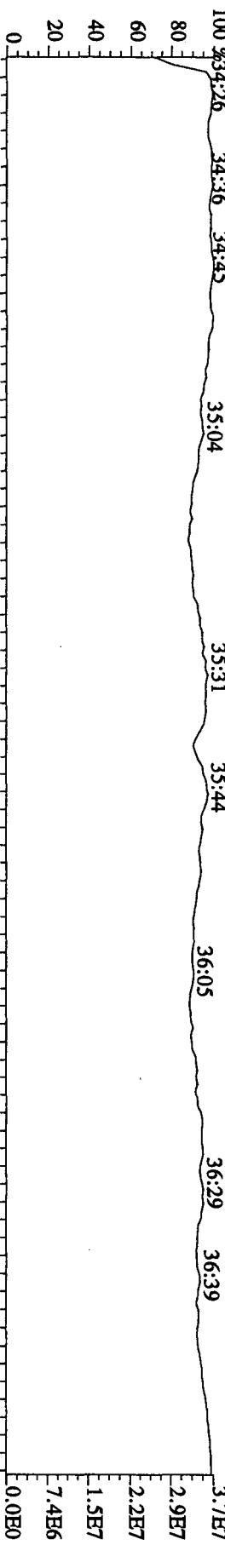


409.7974 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,136.0,1.00%,F,T)

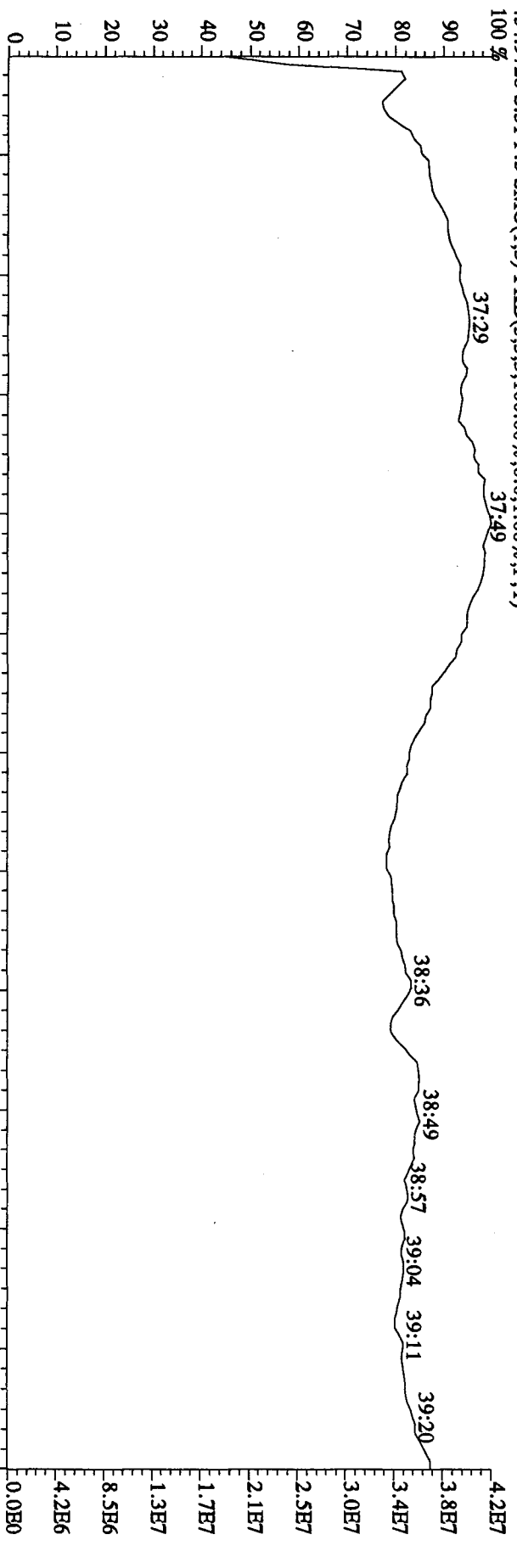




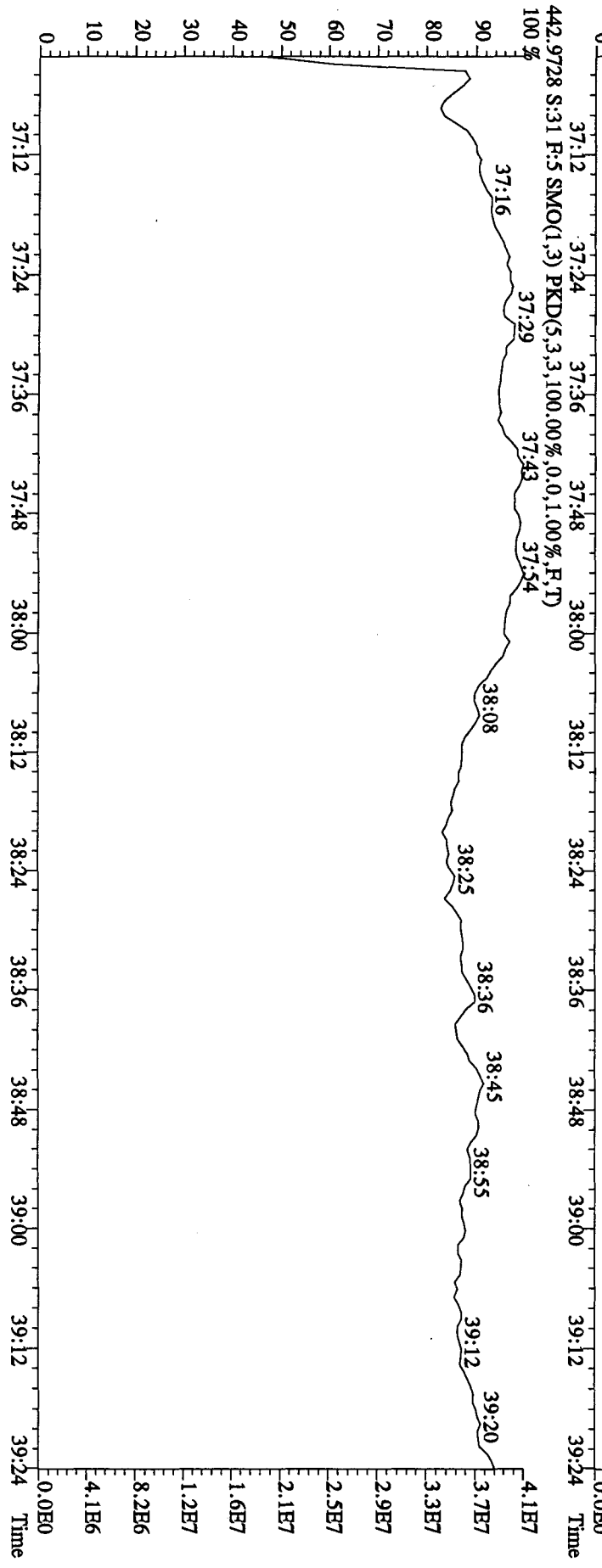
File: 280C104D5 #1-201 Acq: 29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text: CP1028A :DB-5 CP5M 3732-10 Exp: DIOXINRES
 430.9728 S:31 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 34:26 34:36 34:45 35:04 35:31 35:44 36:05 36:29 36:39



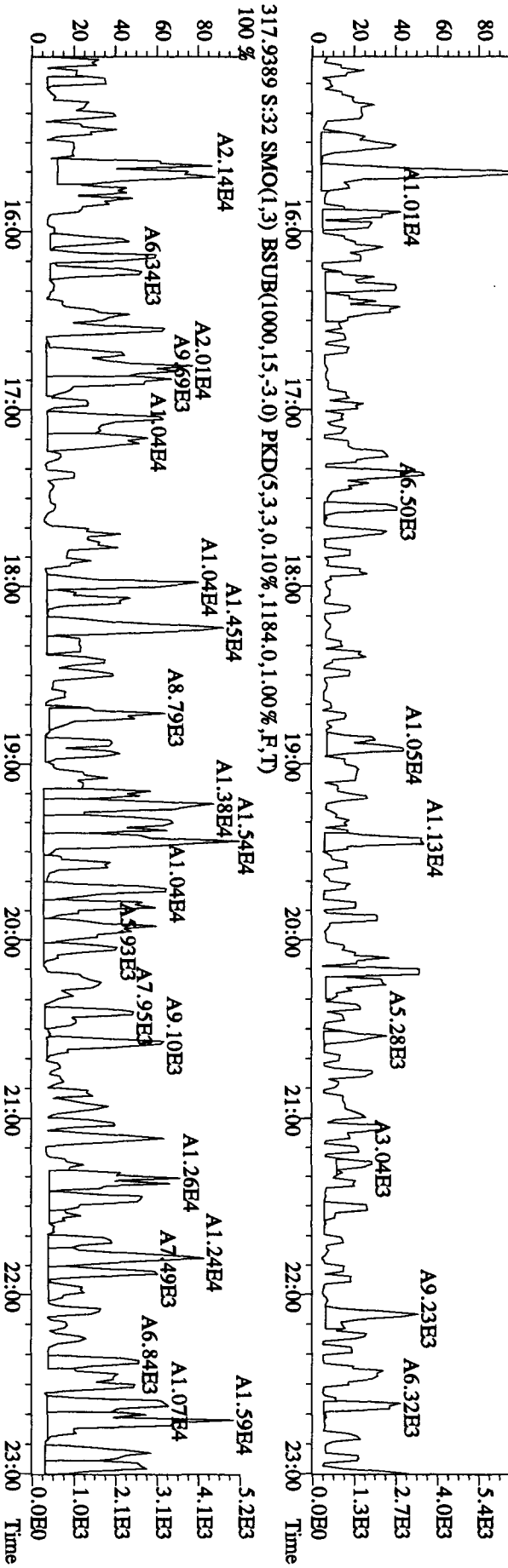
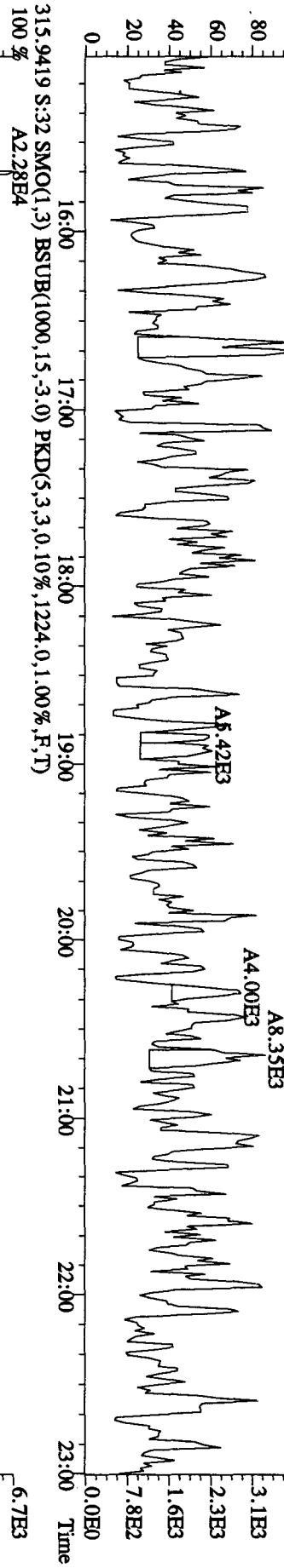
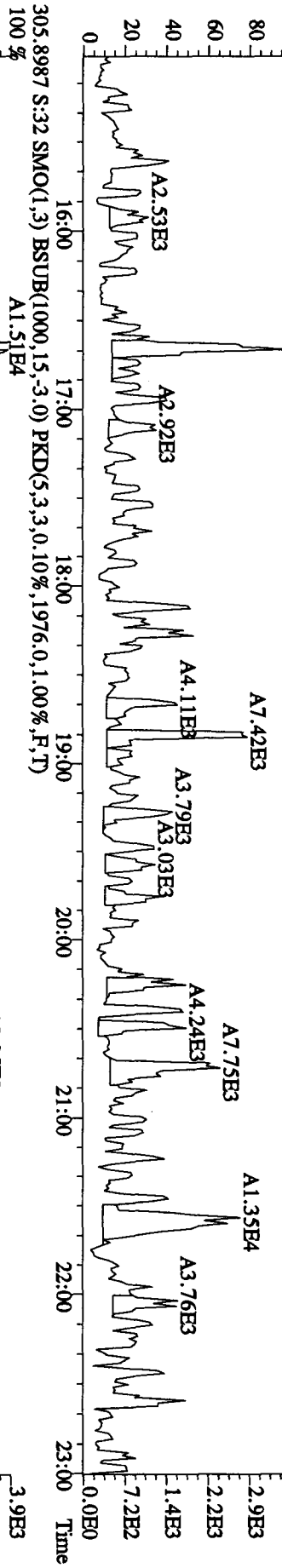
File:28OC104D5 #1-192 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 454.9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

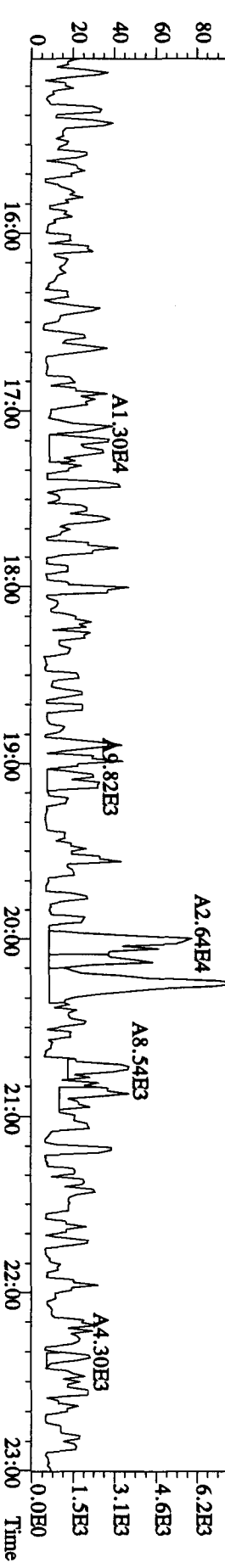
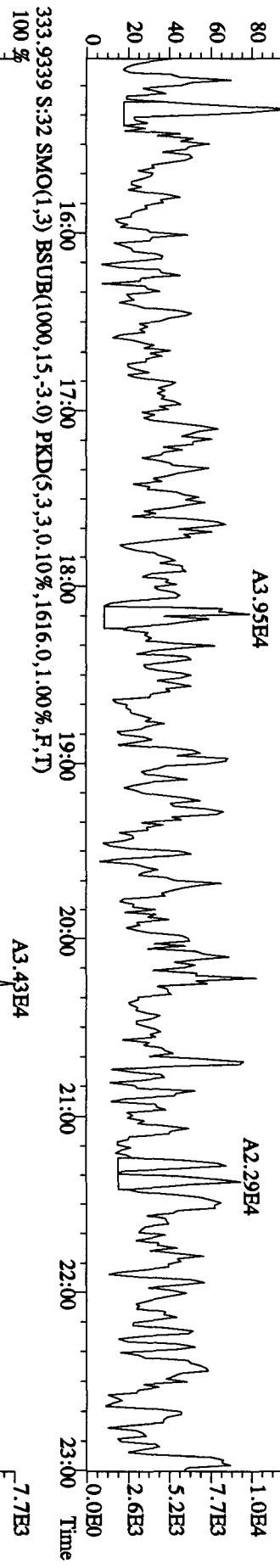
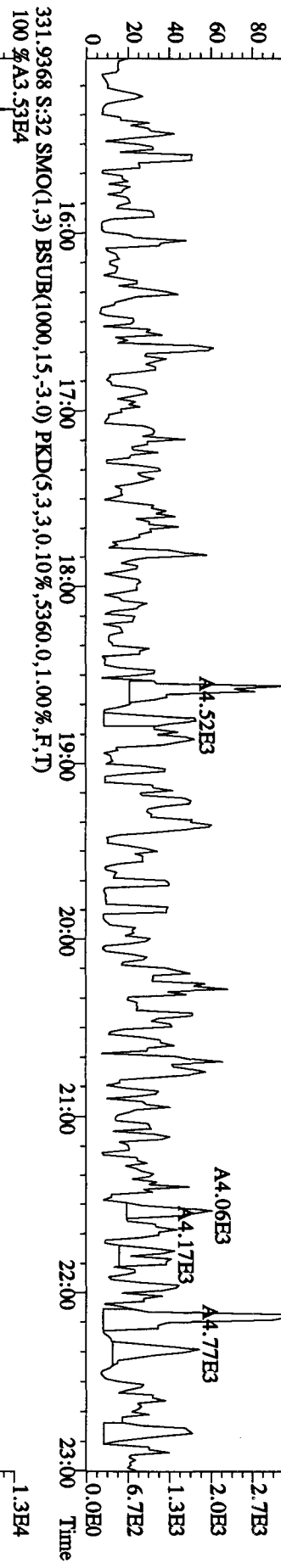
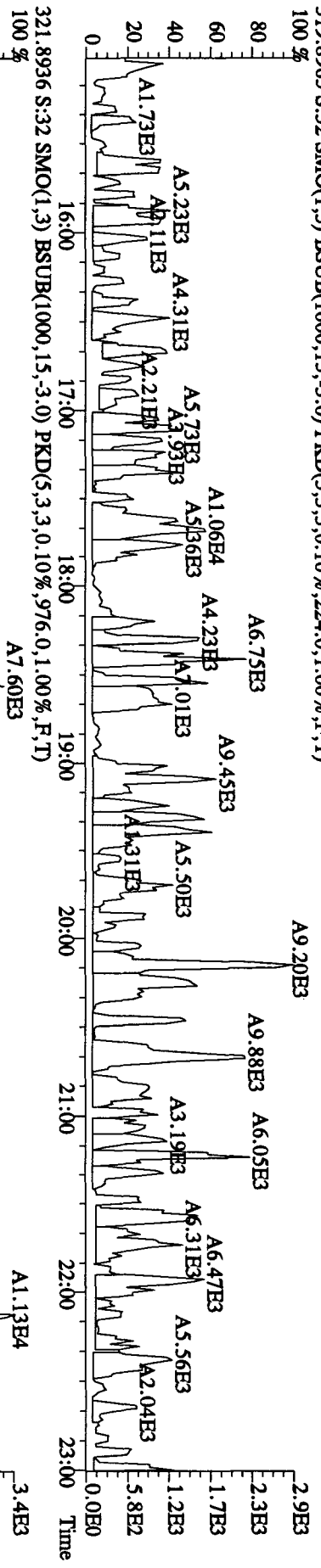


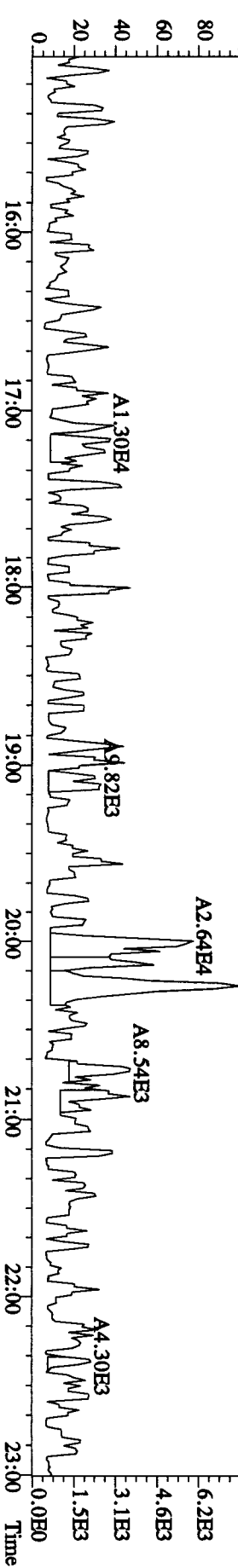
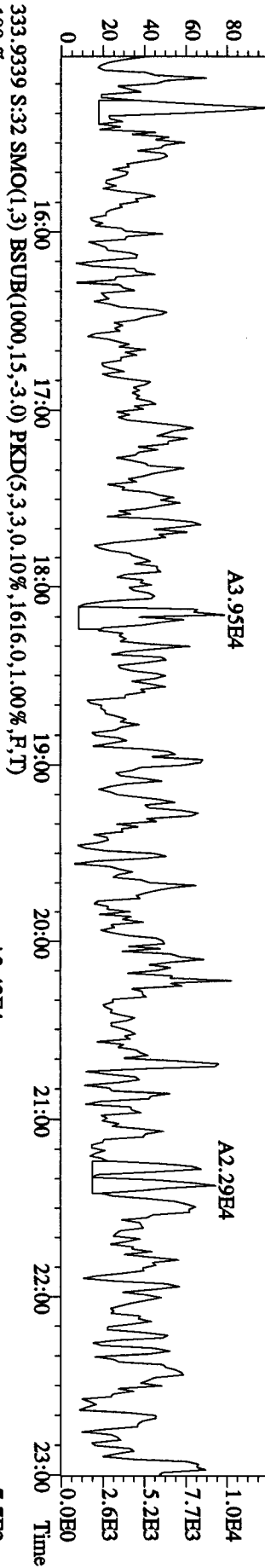
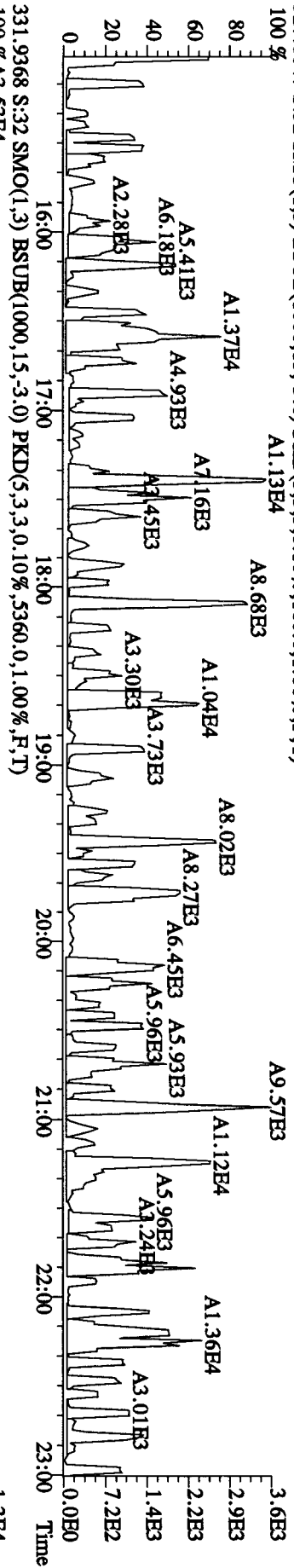
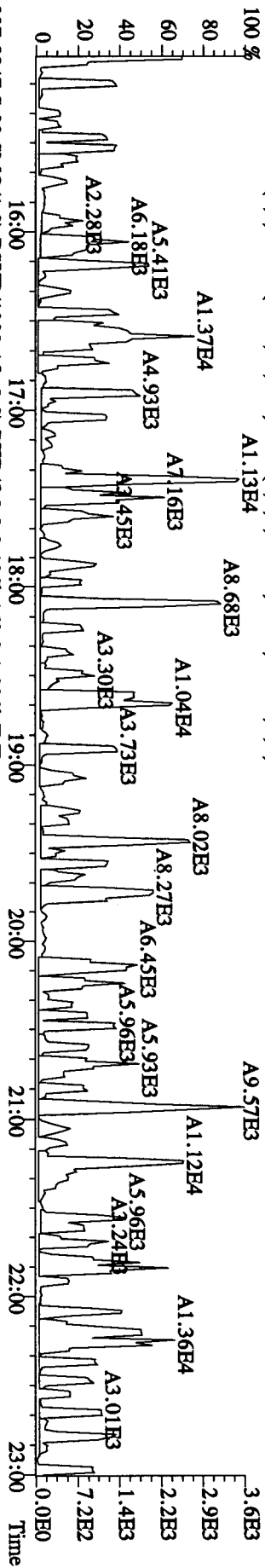
442.9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



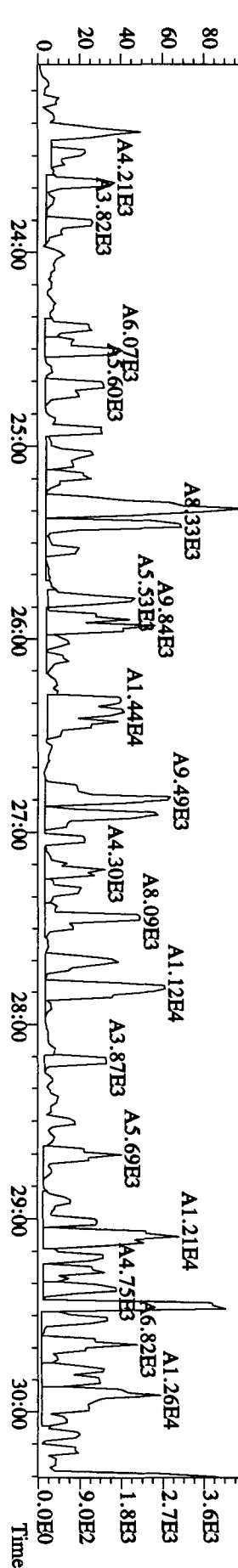
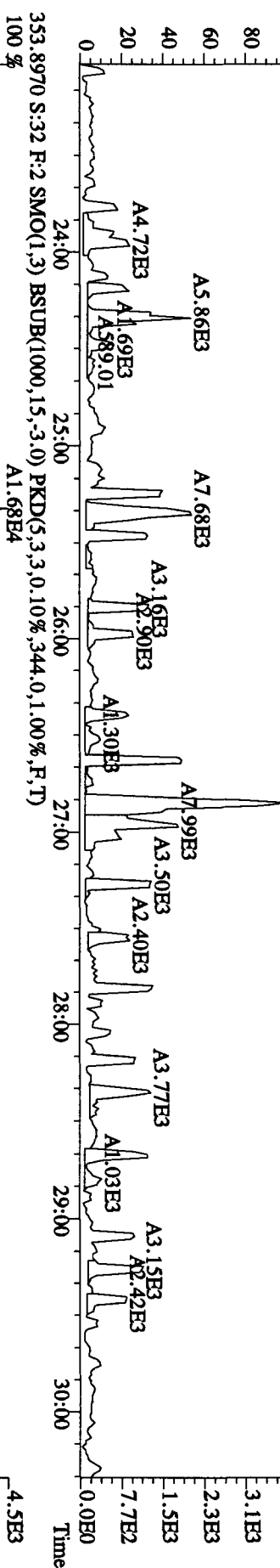
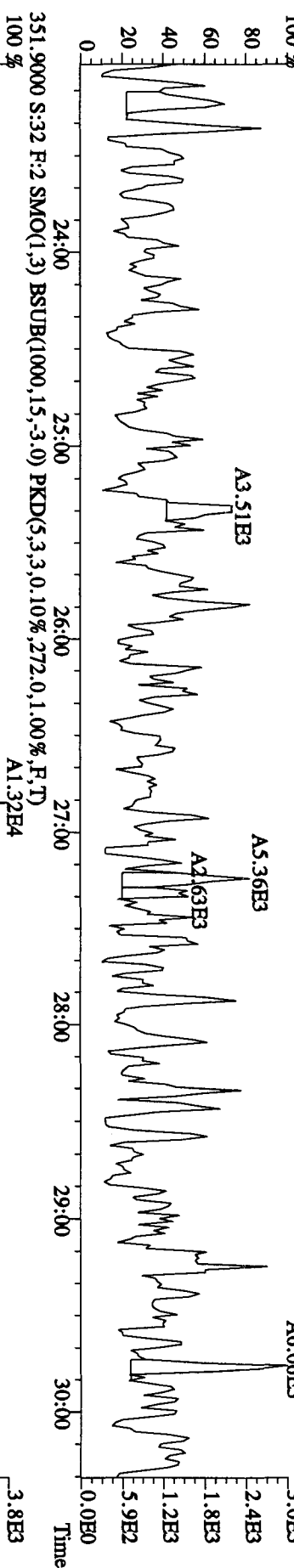
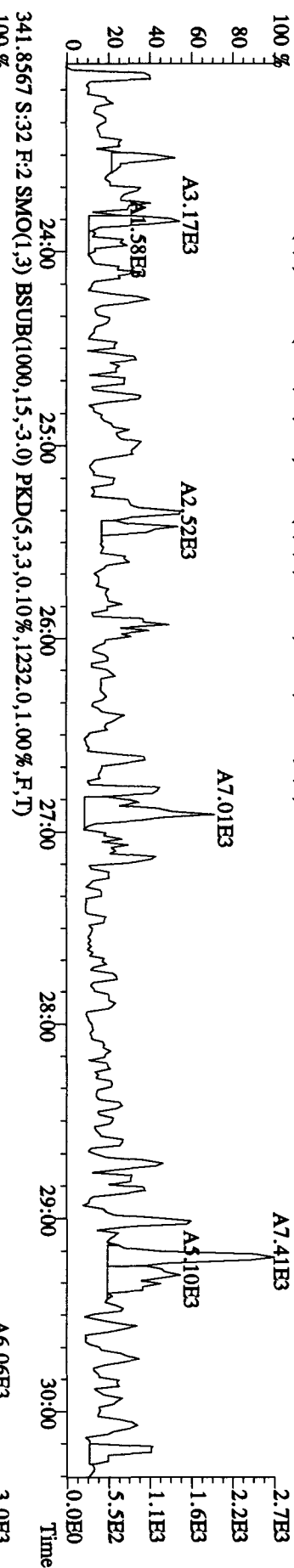
File:28OC104D5 #1-530 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#32 Text:SB1028 A :Solvent Blank C-14 Exp:DIOXINRES
 303.9016 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)
 100% A9.59E3



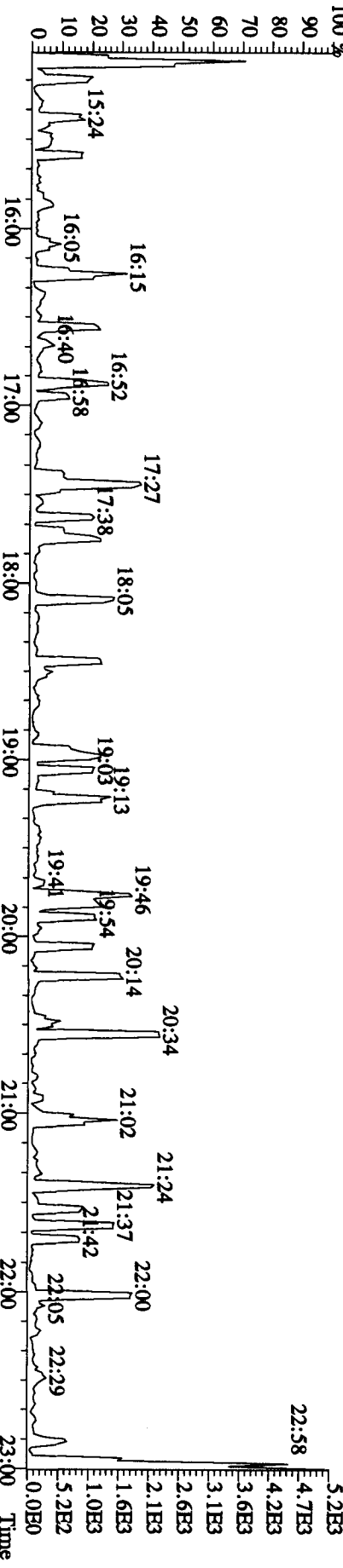
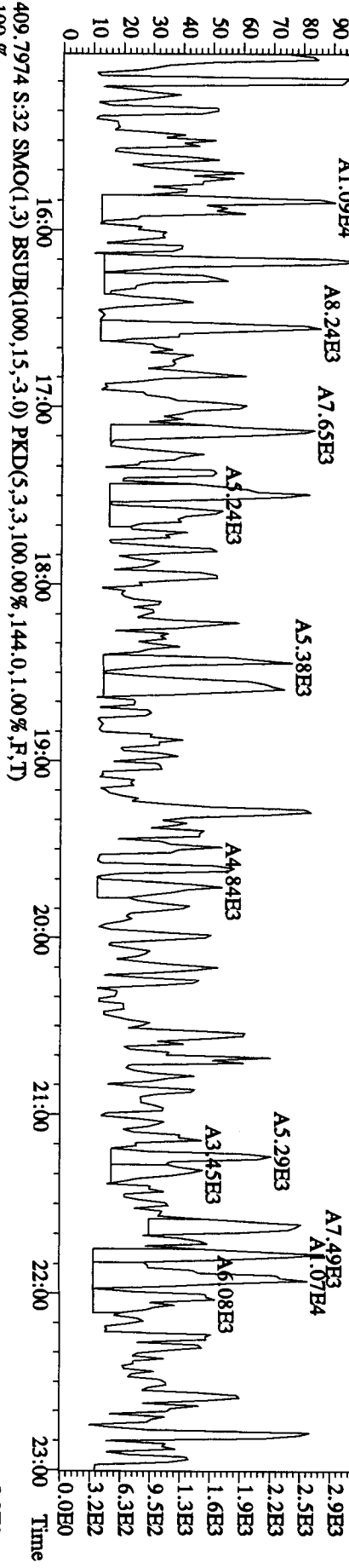
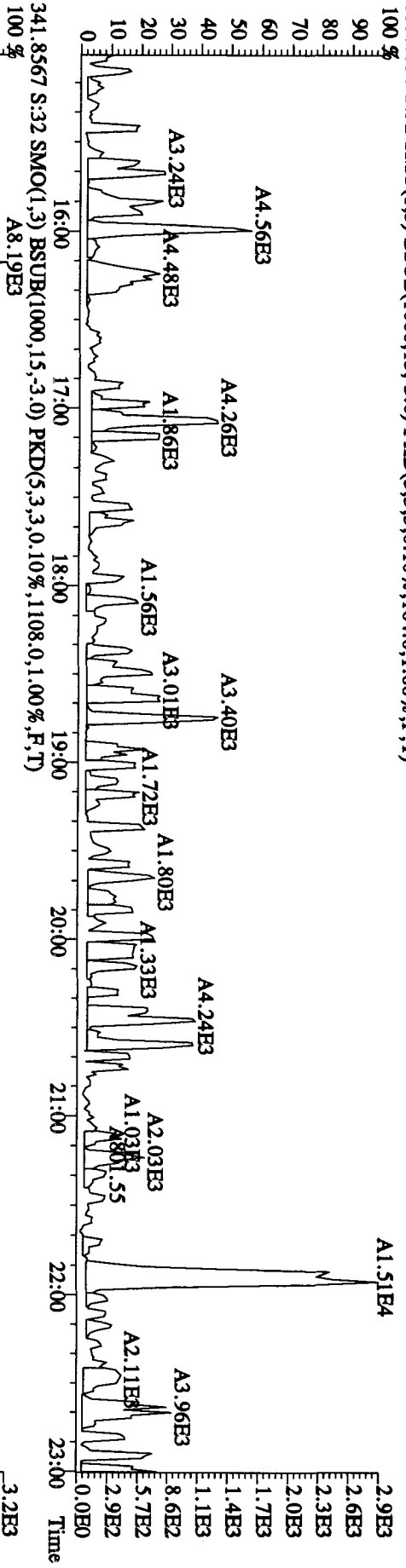


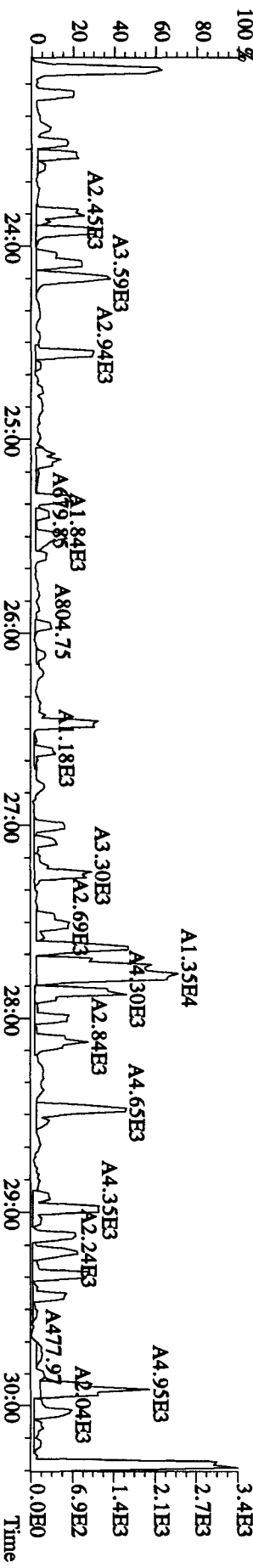
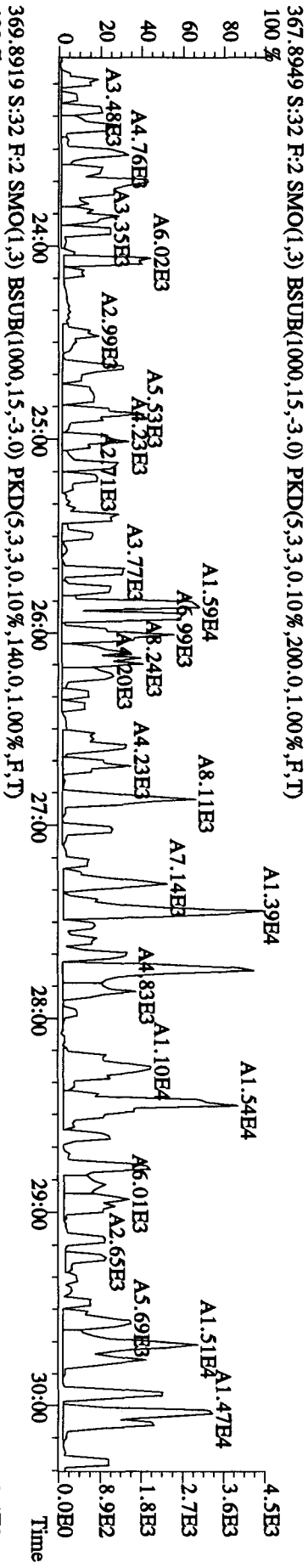
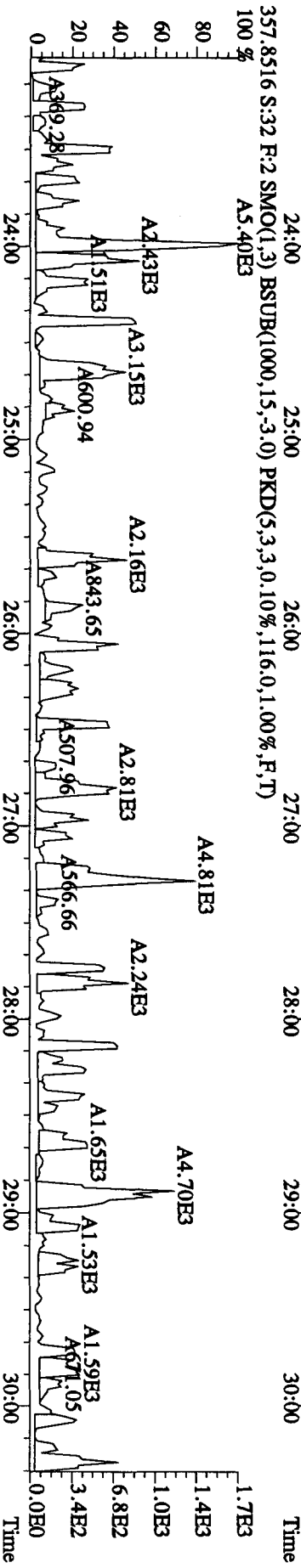
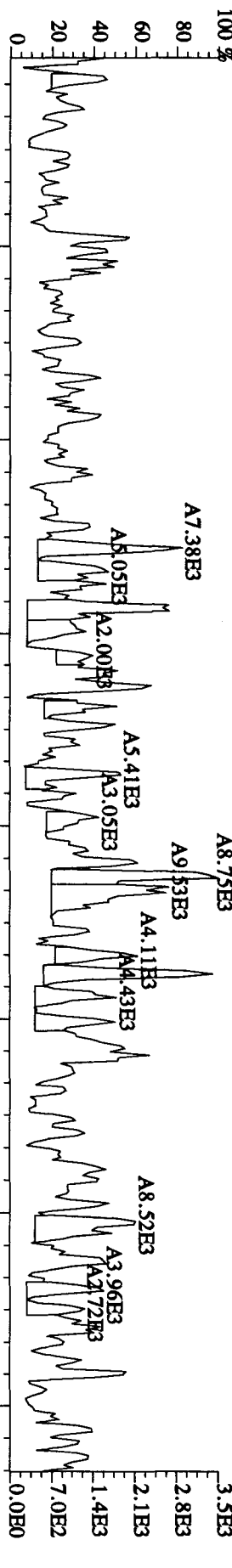


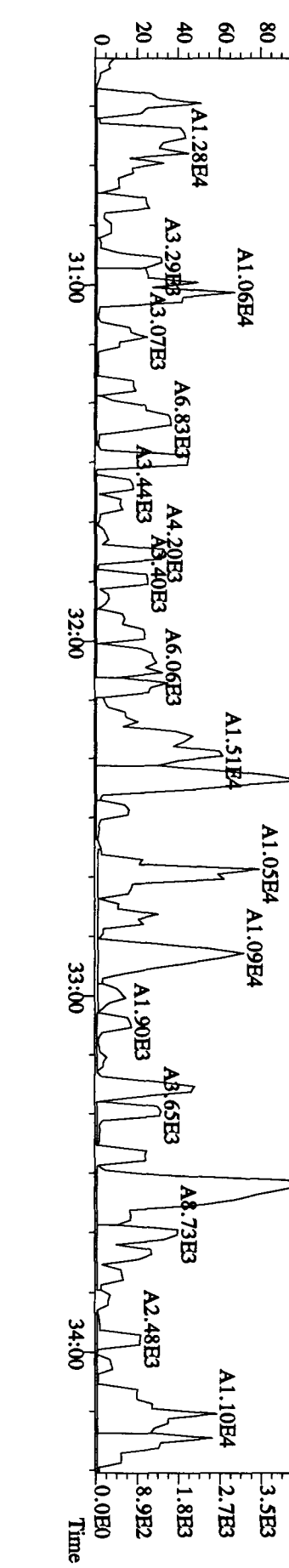
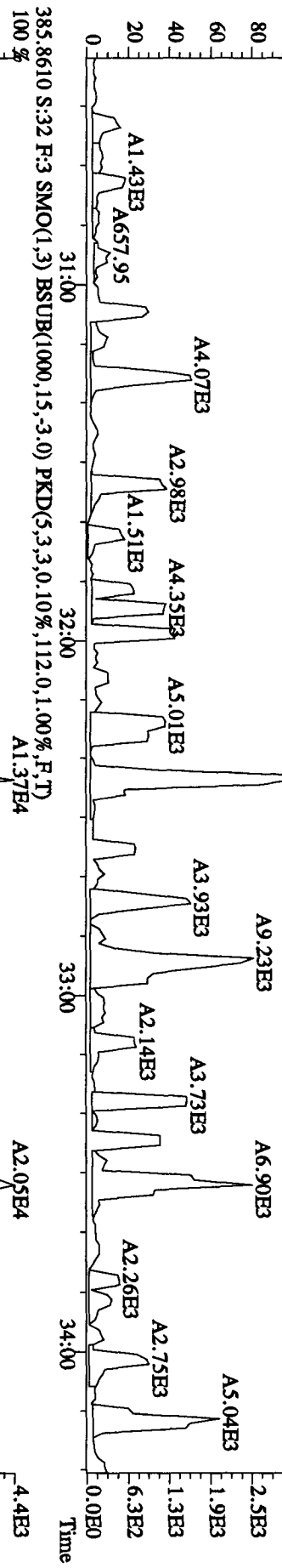
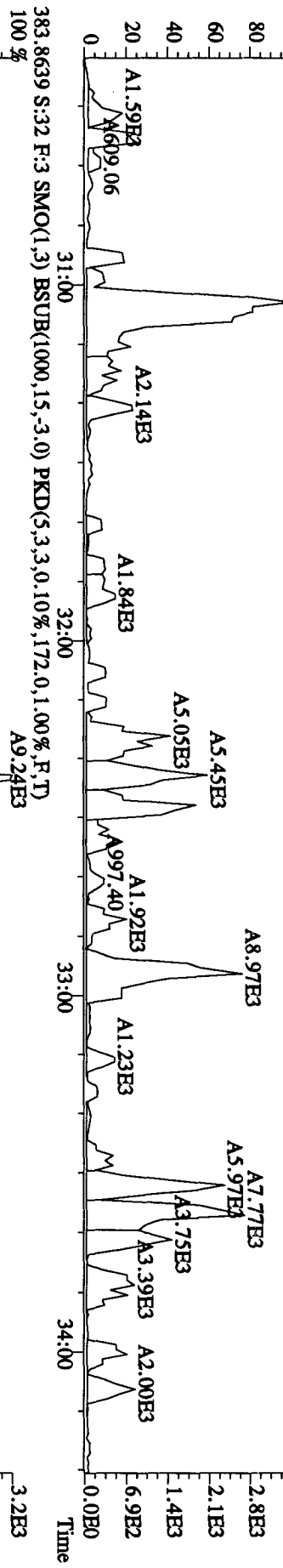
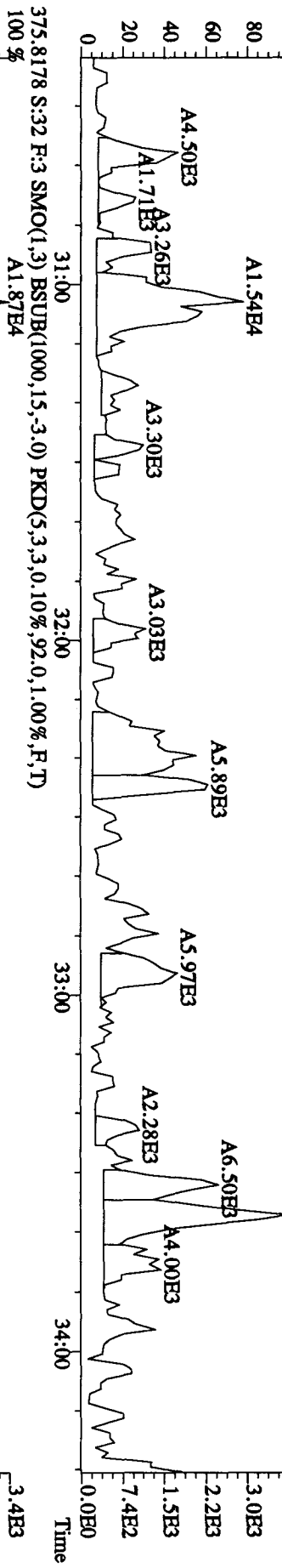
File:280C104D5 #1-470 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 339.8597 S:32 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,620.0,1.00%,F,T)



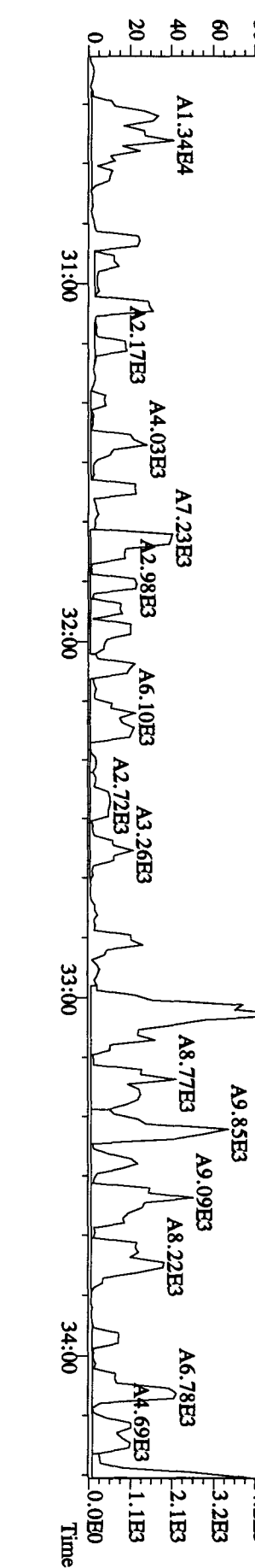
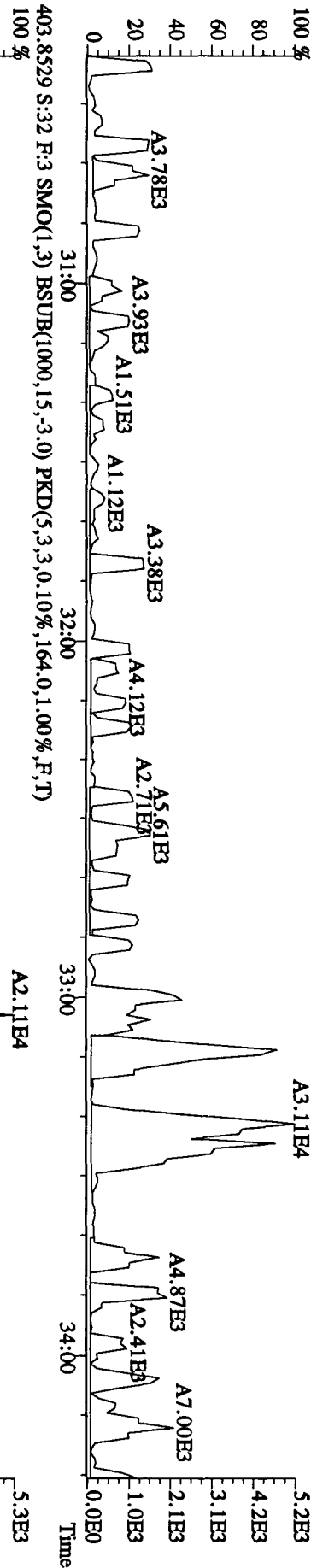
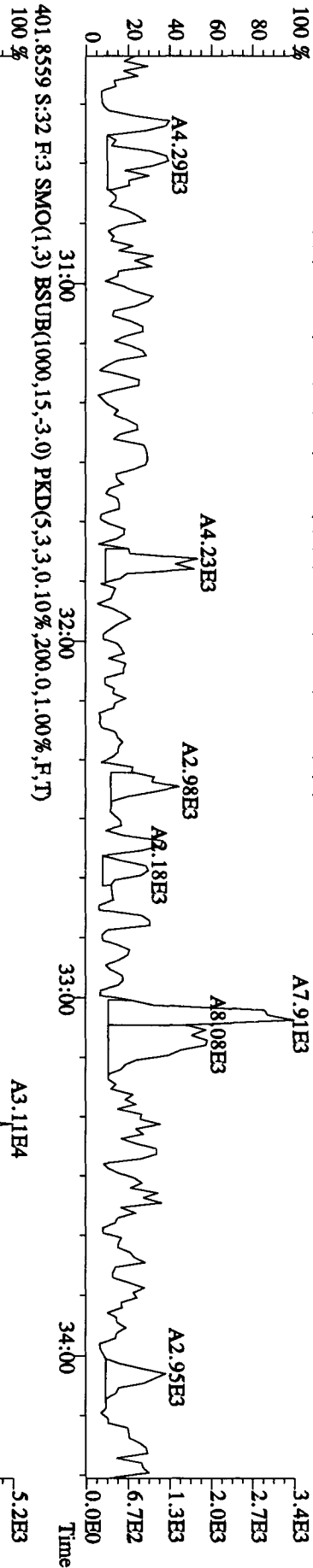
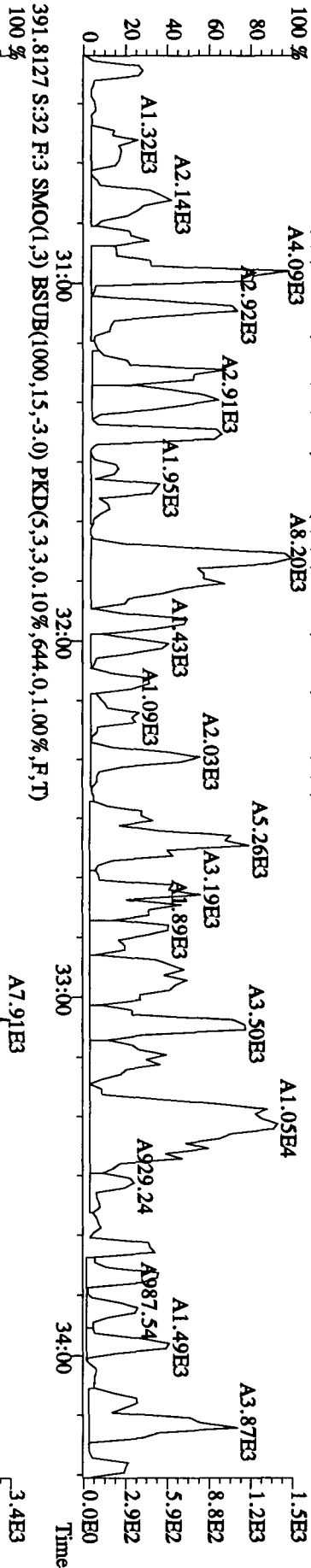
File:280C104D5 #1-530 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 339.8597 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,164.0,1.00%,F,T) 100%



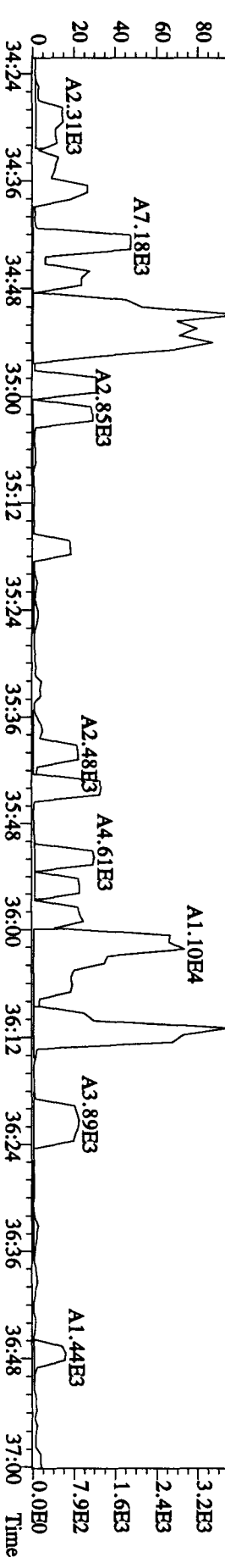
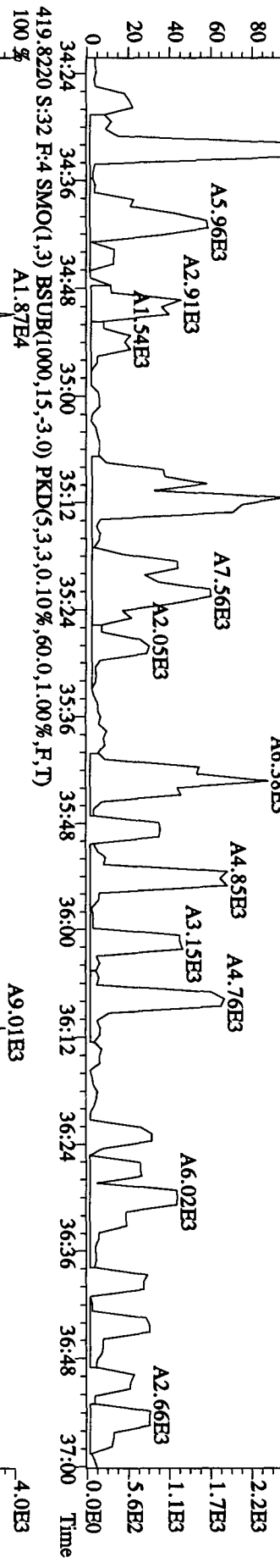
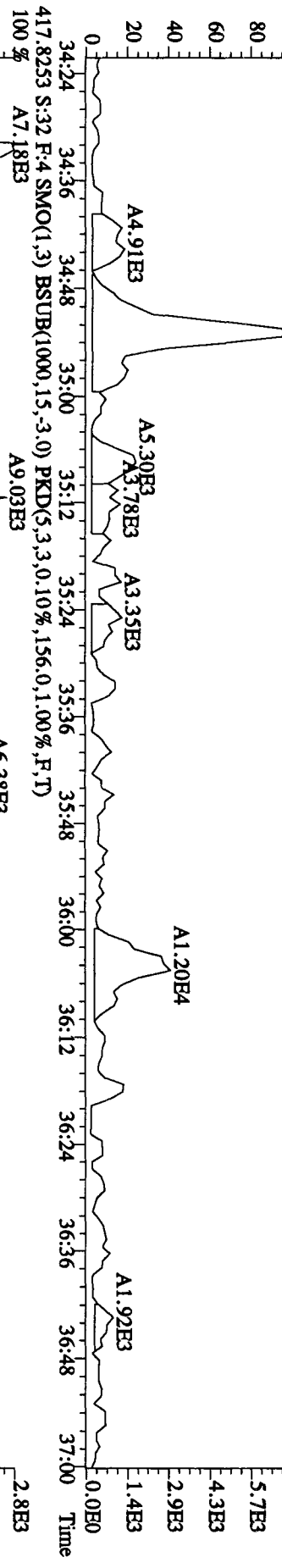
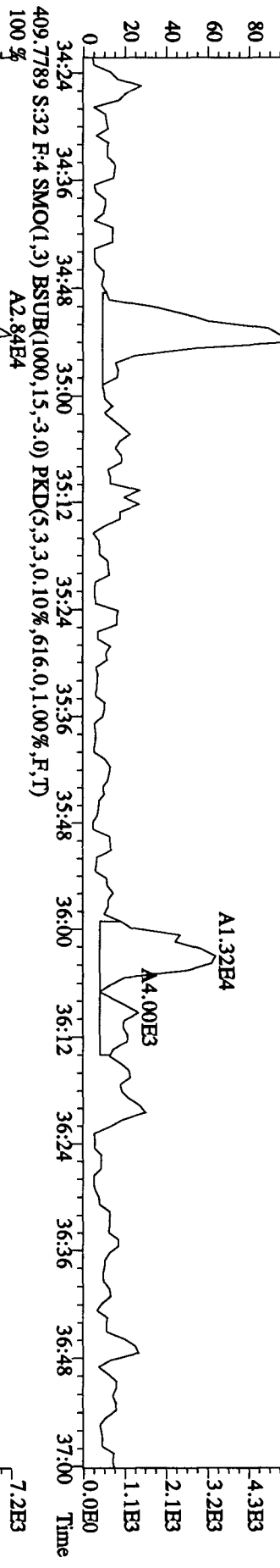




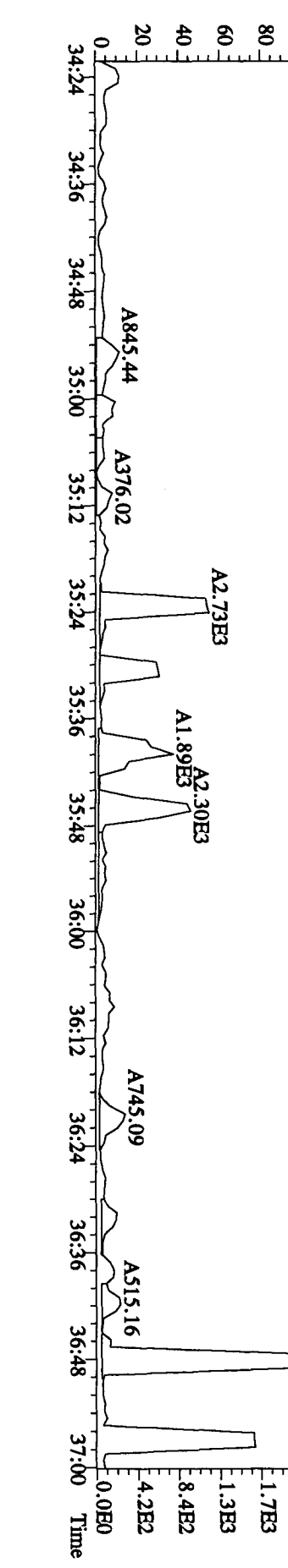
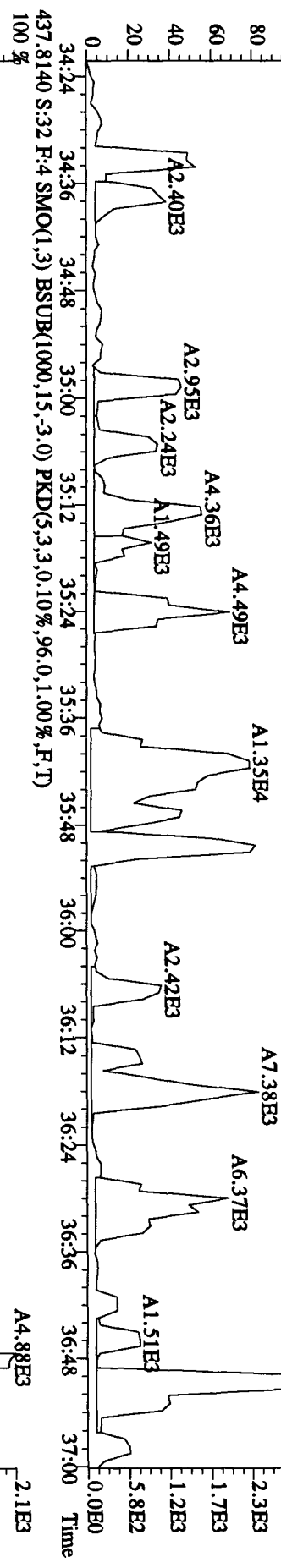
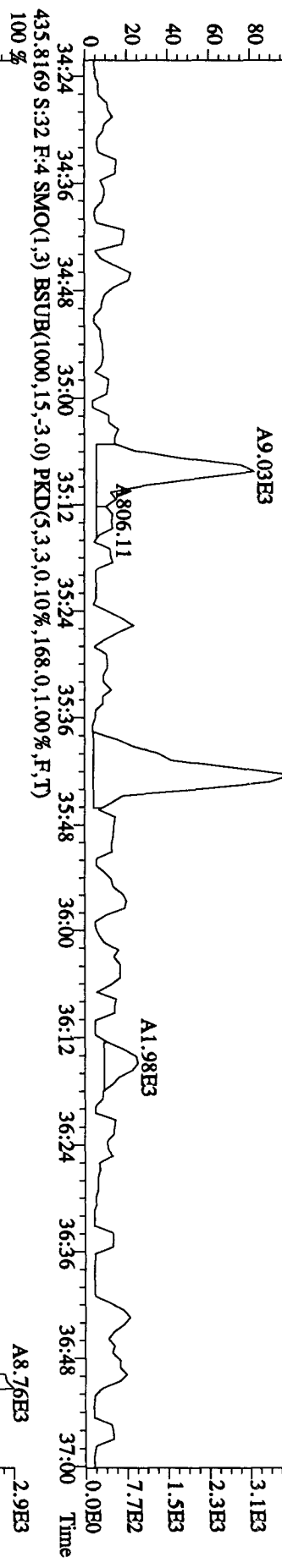
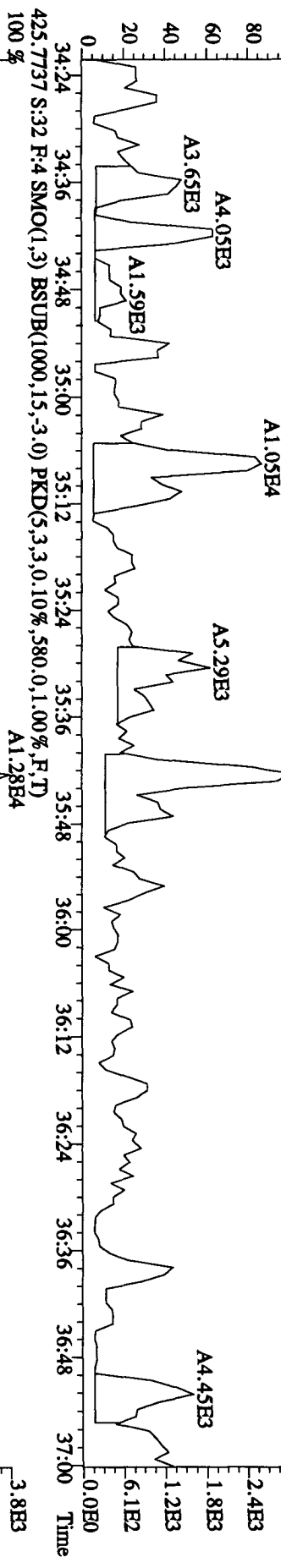
File:280C104D5 #1-287 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 389.8157 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108,0,1.00%,F,T)
 403.8529 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,164,0,1.00%,F,T)



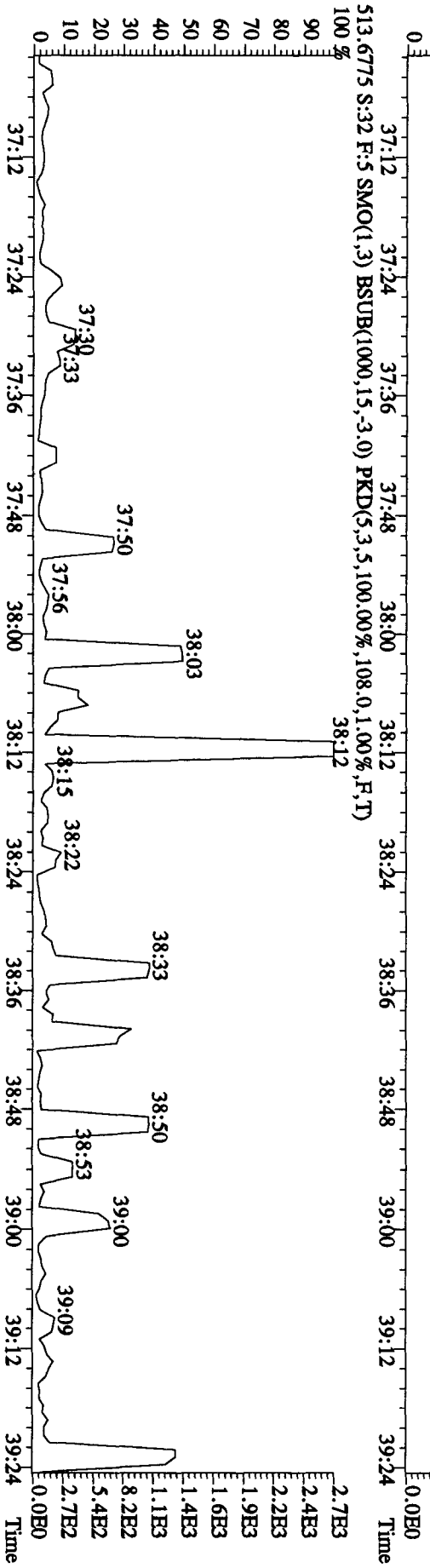
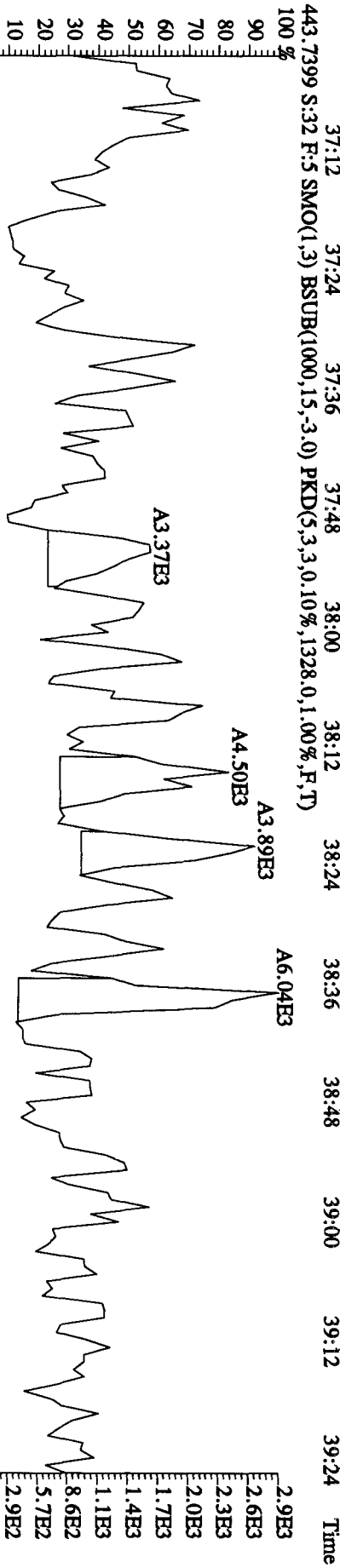
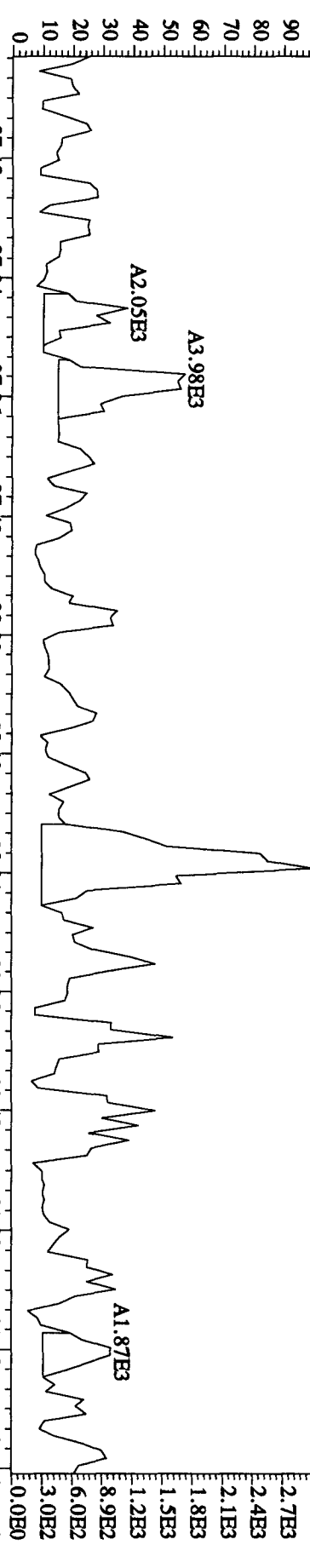
File:280C104D5 #1-200 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 407.7818 S:32 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)
 100%



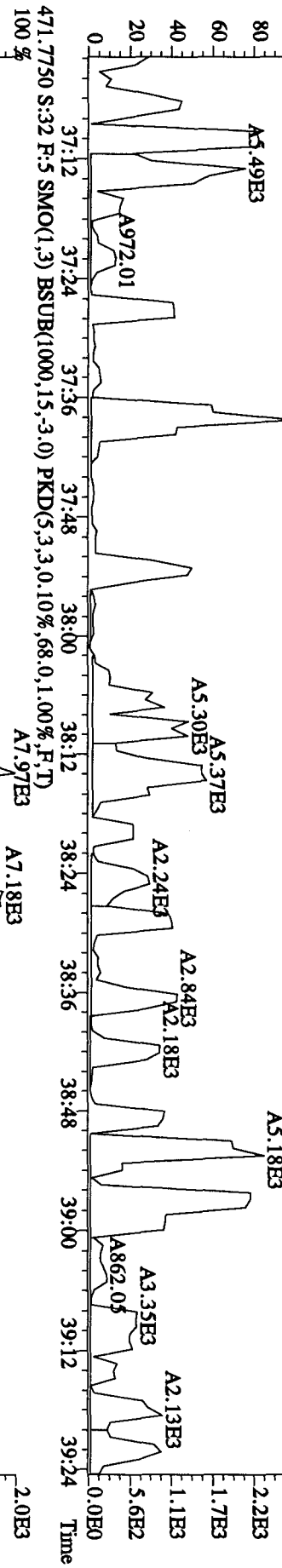
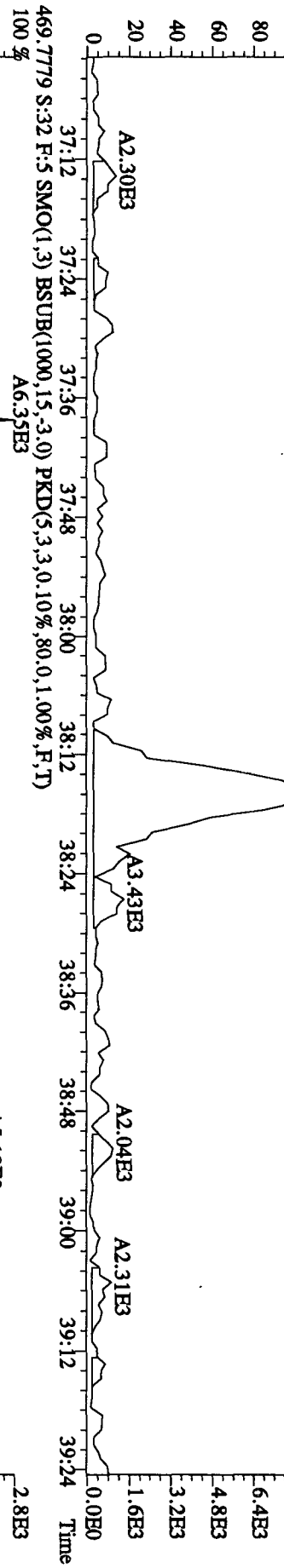
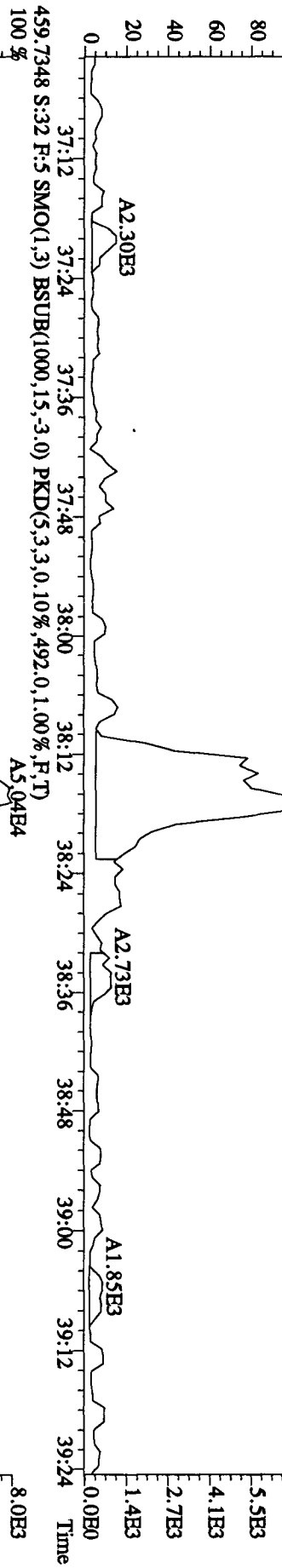
File: 280C104D5 #1-200 Acq: 29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#32 Text: SB1028A :Solvent Blank C-14 Exp: DIOXINRES
 423.7766 S:32 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)
 100%

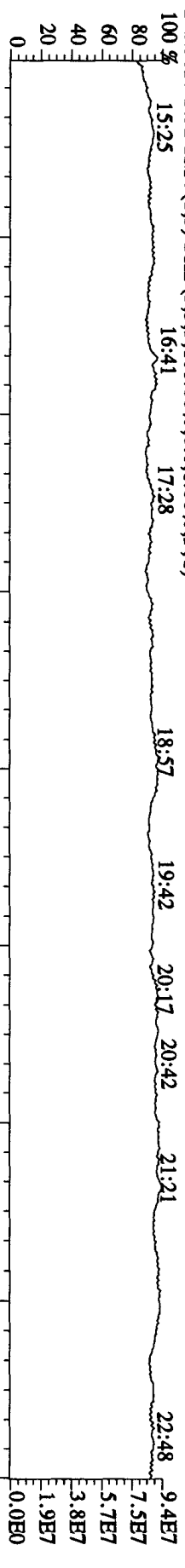


File:280C104D5 #1-193 Aeq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimal
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 441.7428 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)

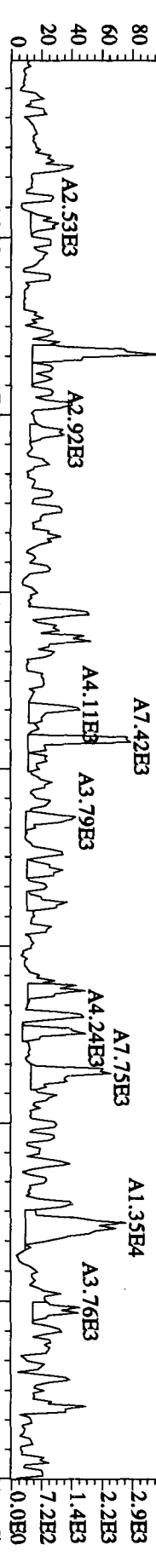


File:280C104D5 #1-193 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimal
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 457.7377 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444.0,1.00%,F,T)

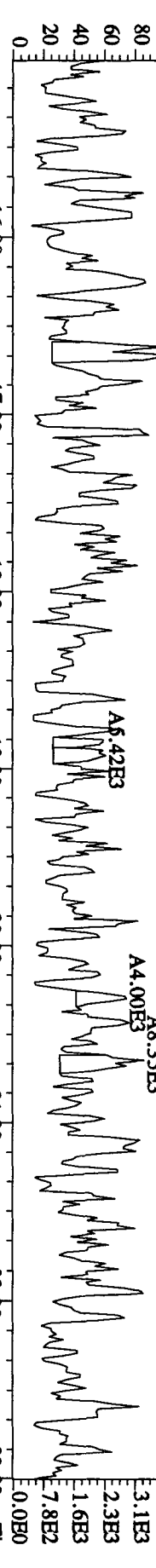




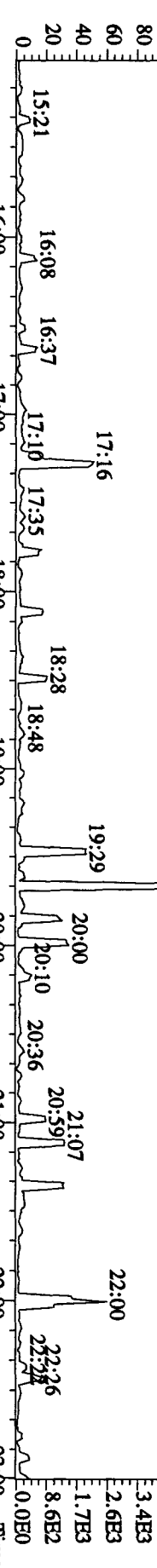
303.9016 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



305.8987 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1976.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



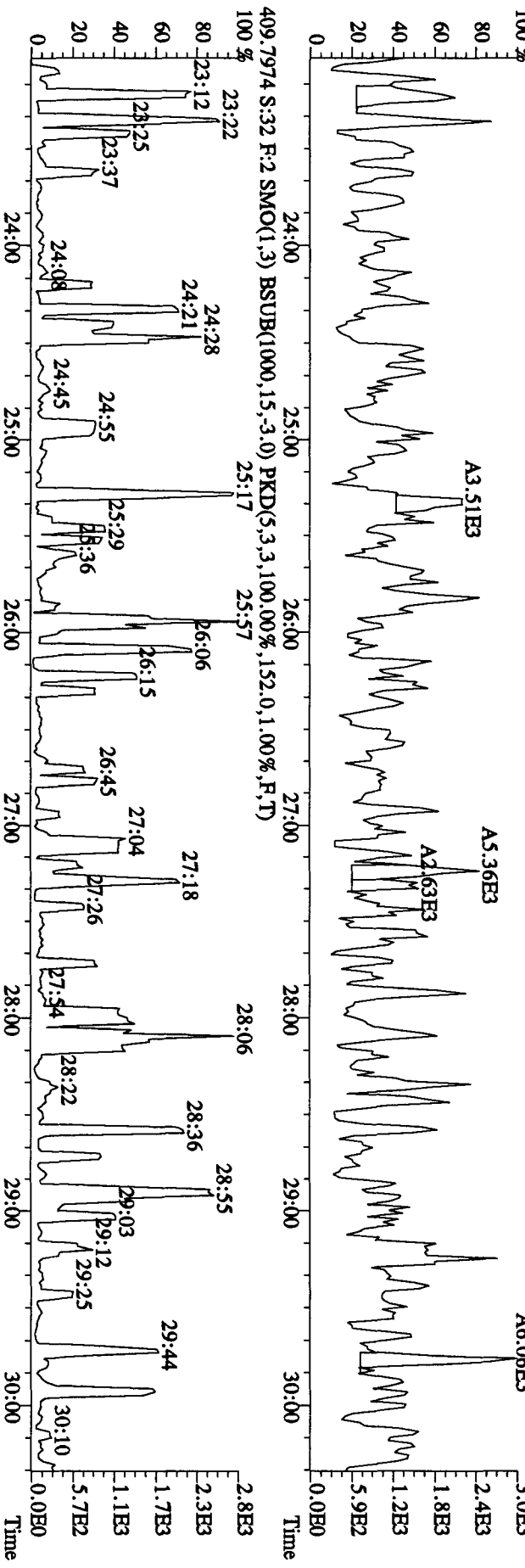
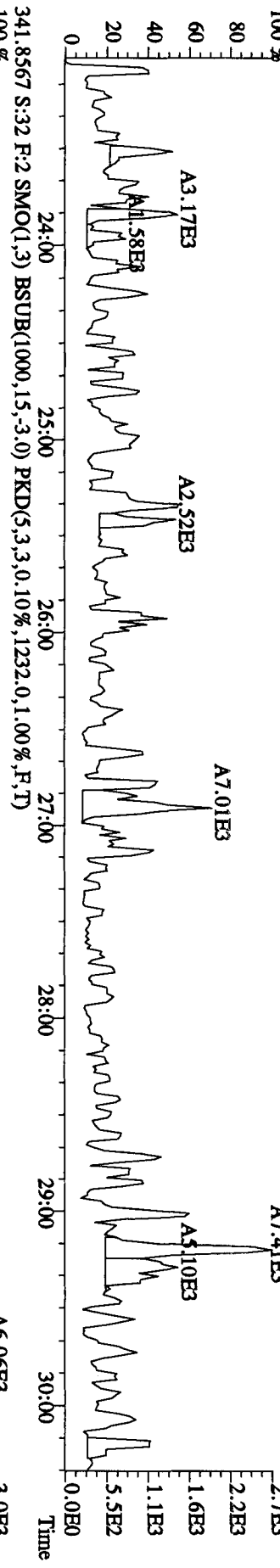
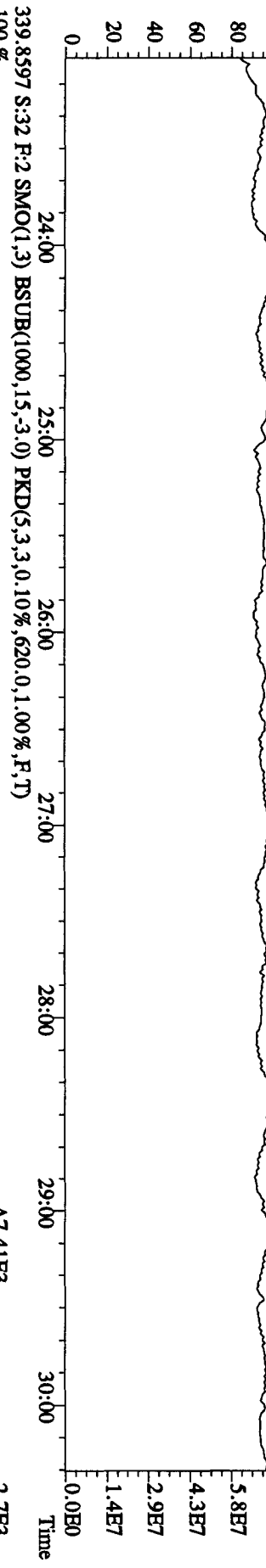
375.8364 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

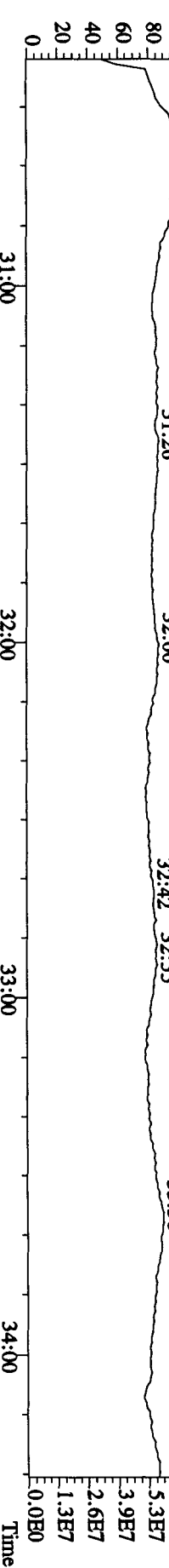
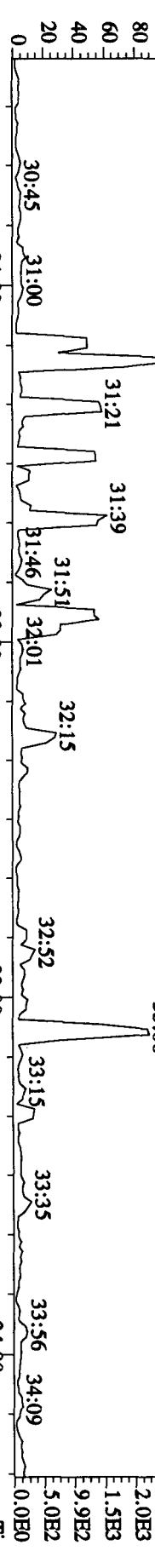
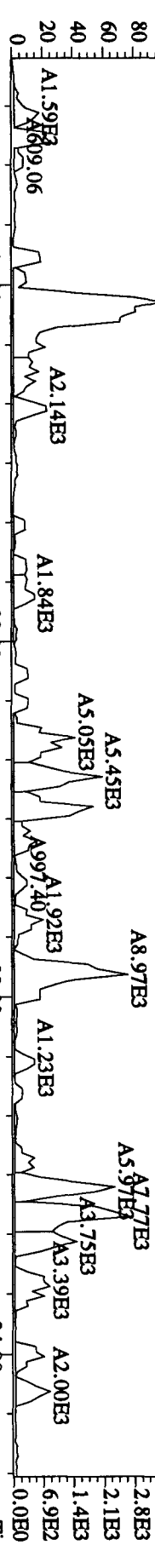
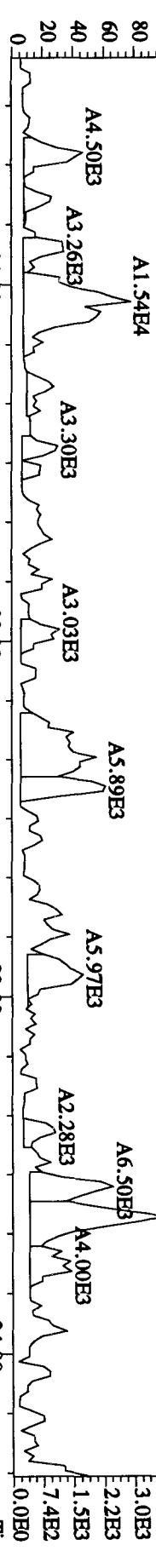
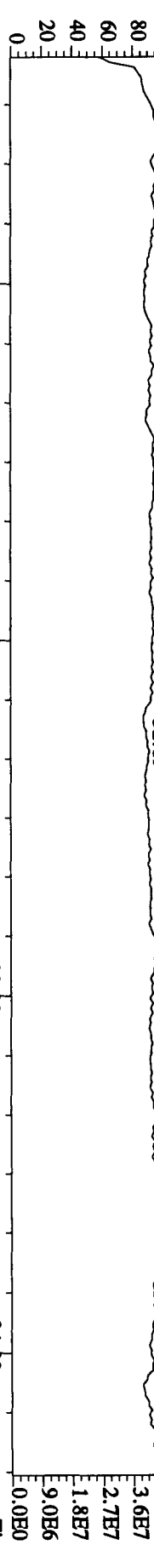


330.9792 S:32 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 15:31 16:13 17:01 17:36 18:15 18:44 19:05 19:44 20:30 20:56 21:23 22:08 22:43



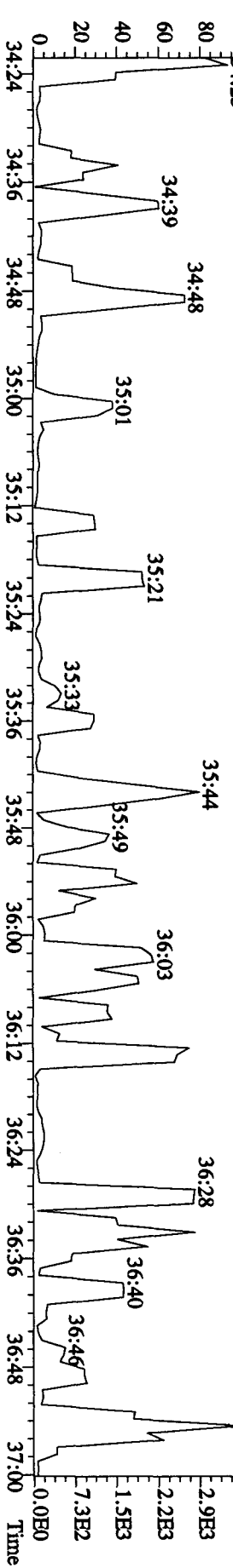
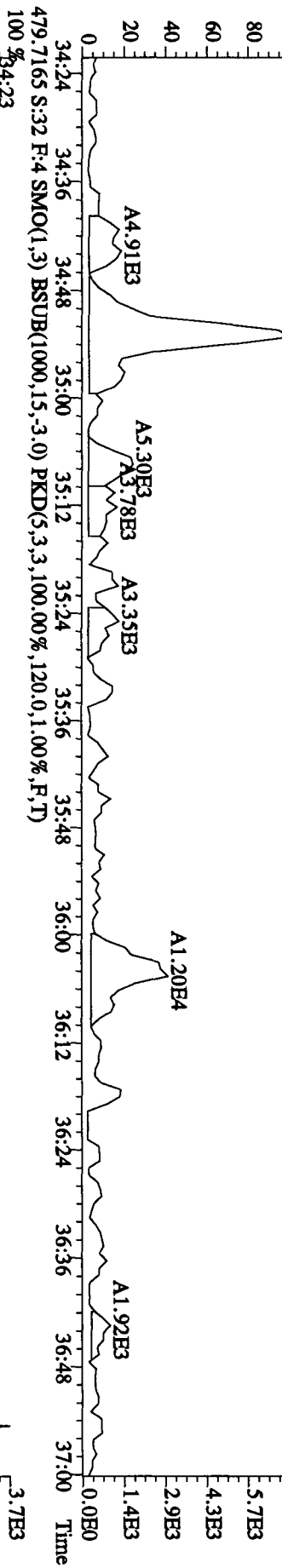
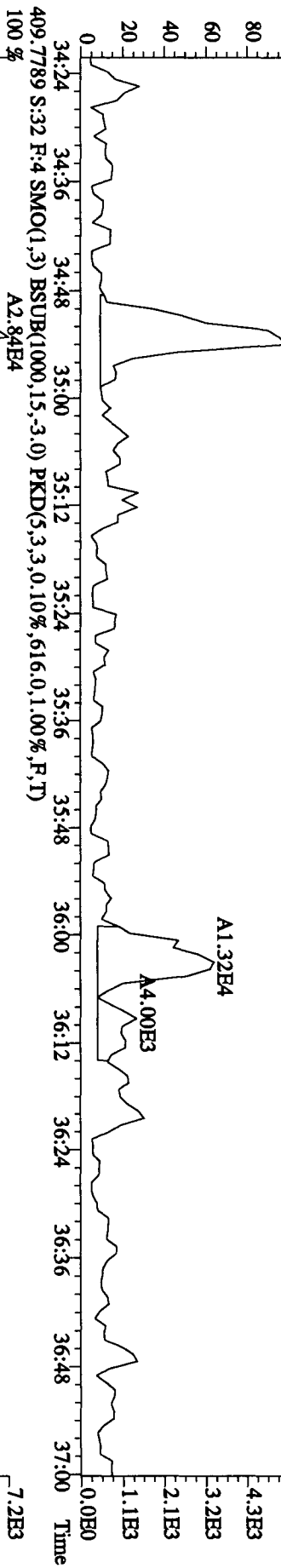
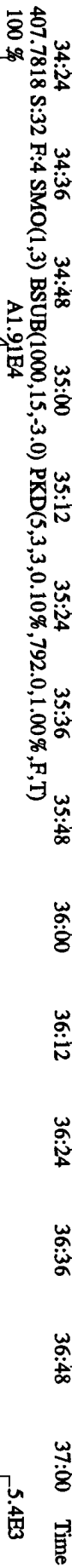
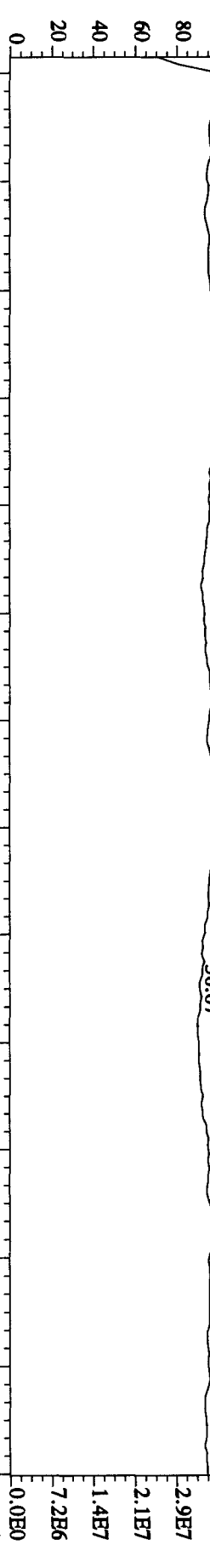
File:280C104D5 #1-470 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
 342.9792 S:32 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:20 24:07 24:53 25:38 26:14 27:38 28:26 29:06 30:01



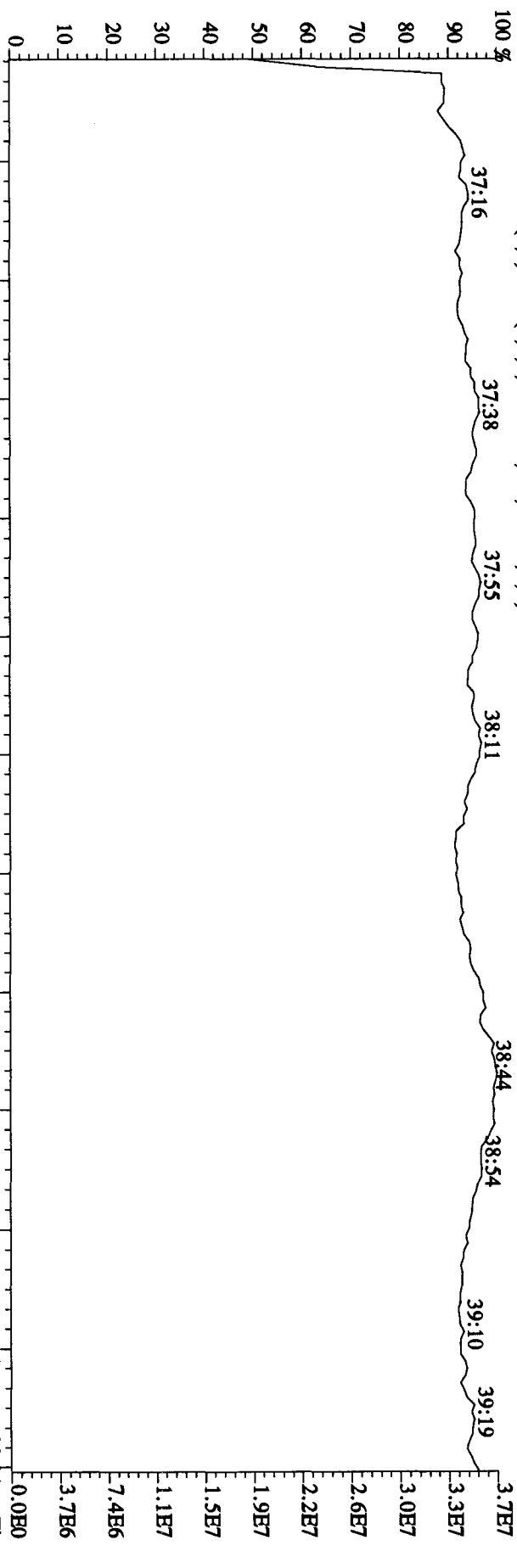


Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES

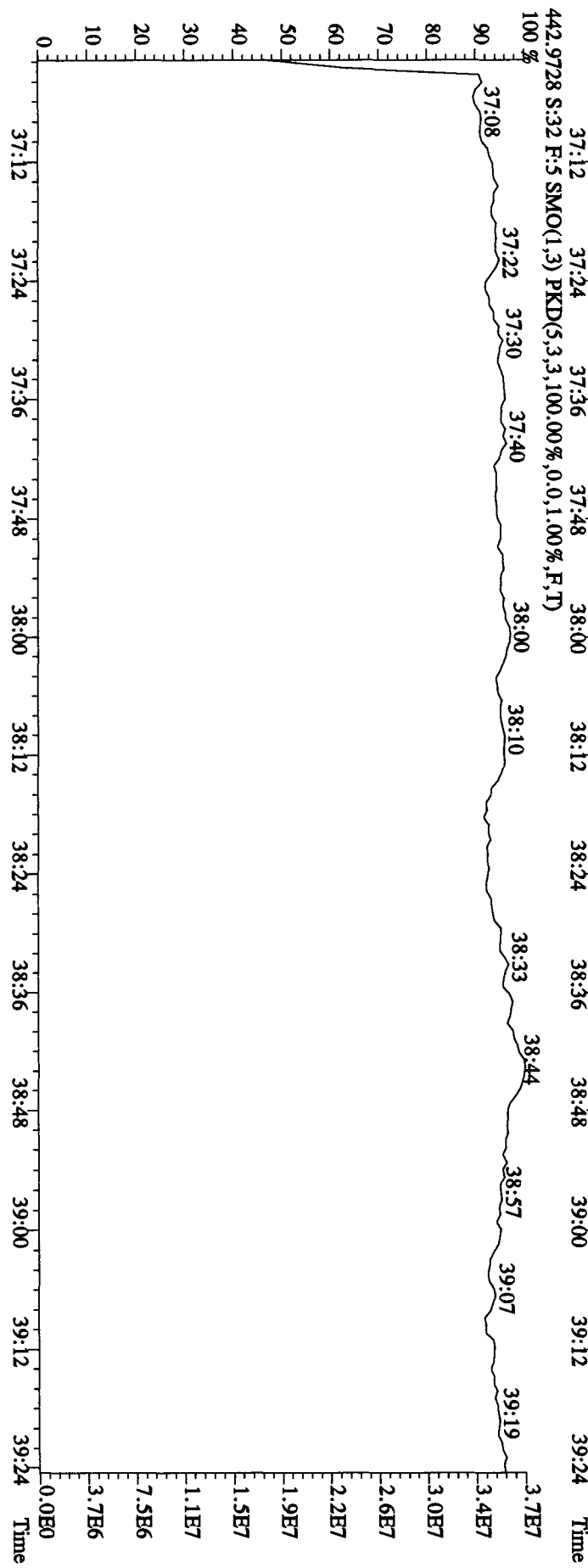
430.9728 S:32 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



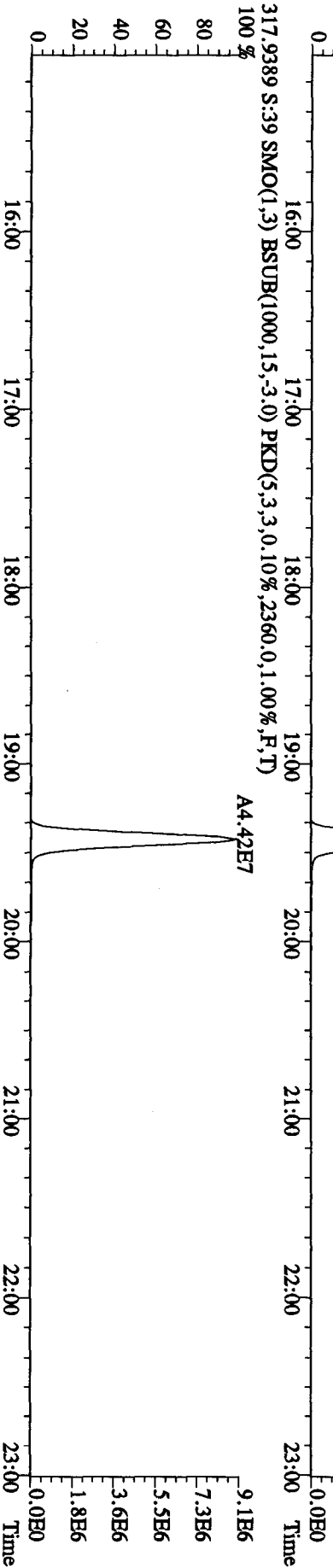
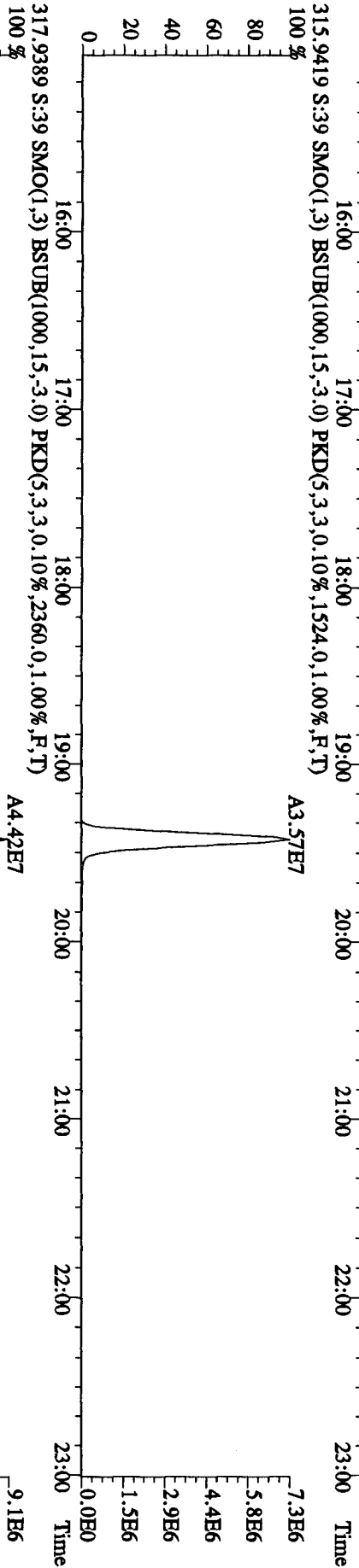
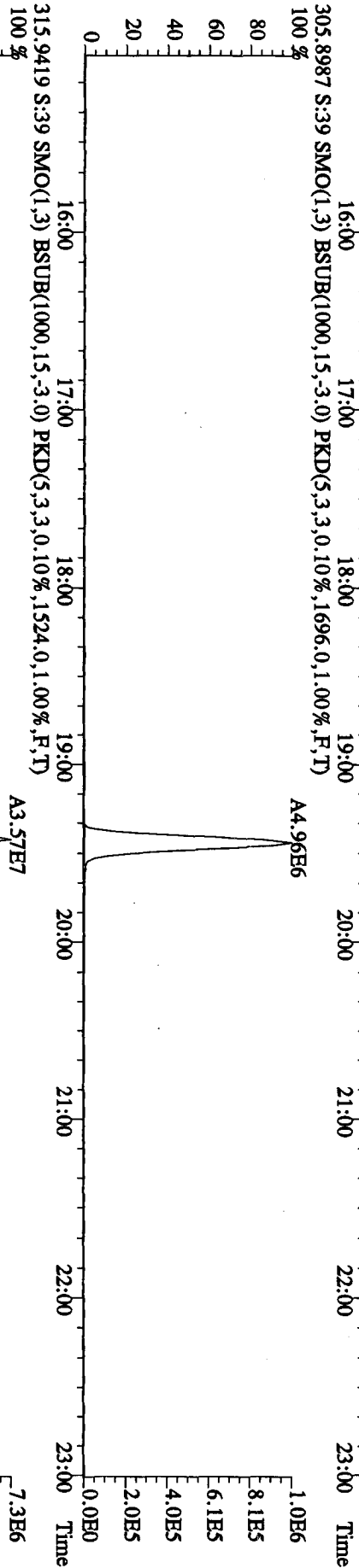
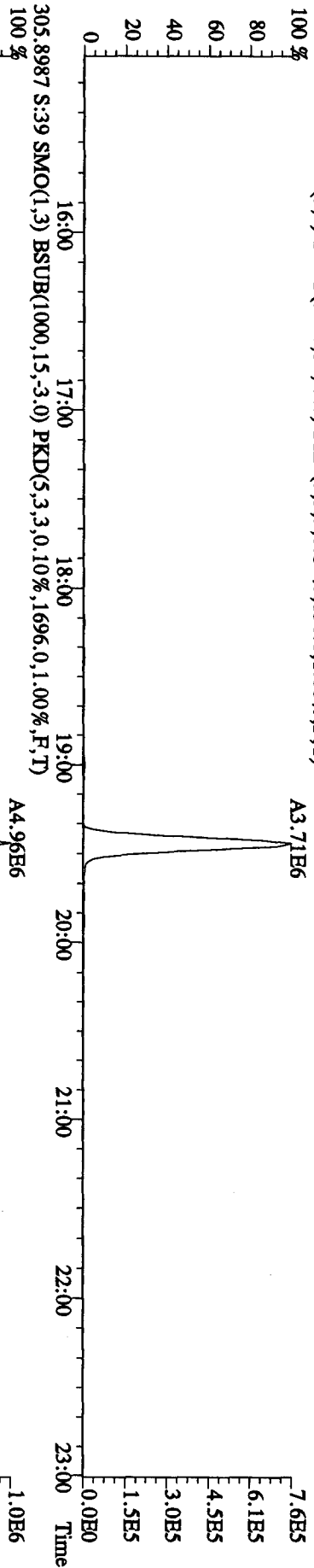
File:280C104D5 #1-193 Acq:29-OCT-2010 08:39:44 GC EI+ Voltage SIR Autospec-Ultimate
Sample#32 Text:SB1028A :Solvent Blank C-14 Exp:DIOXINRES
454.9728 S:32 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



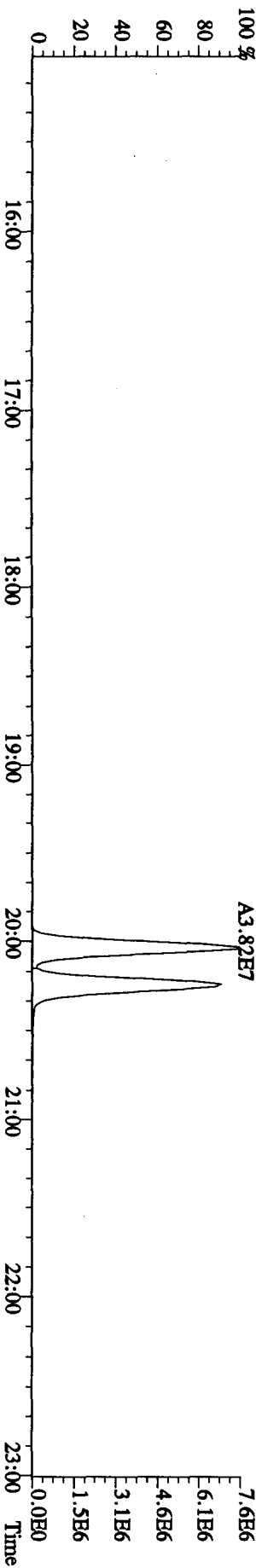
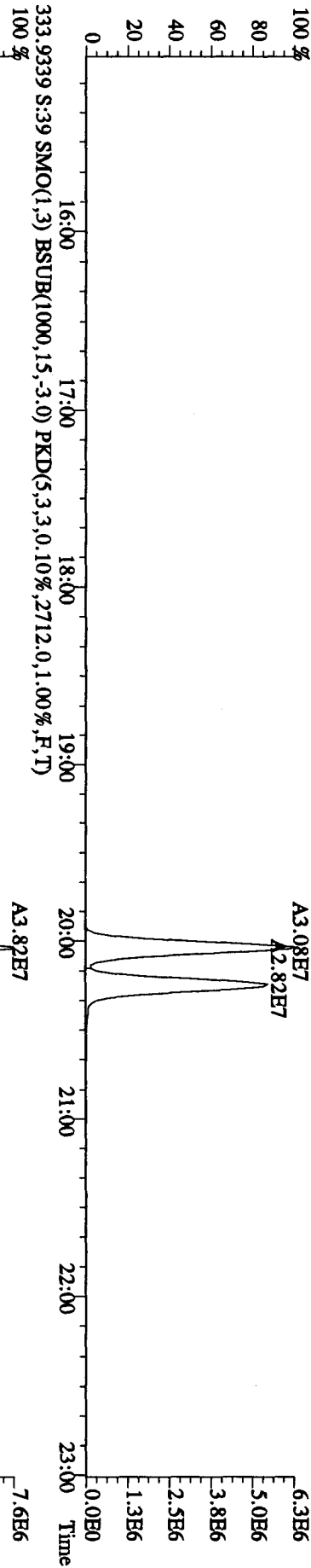
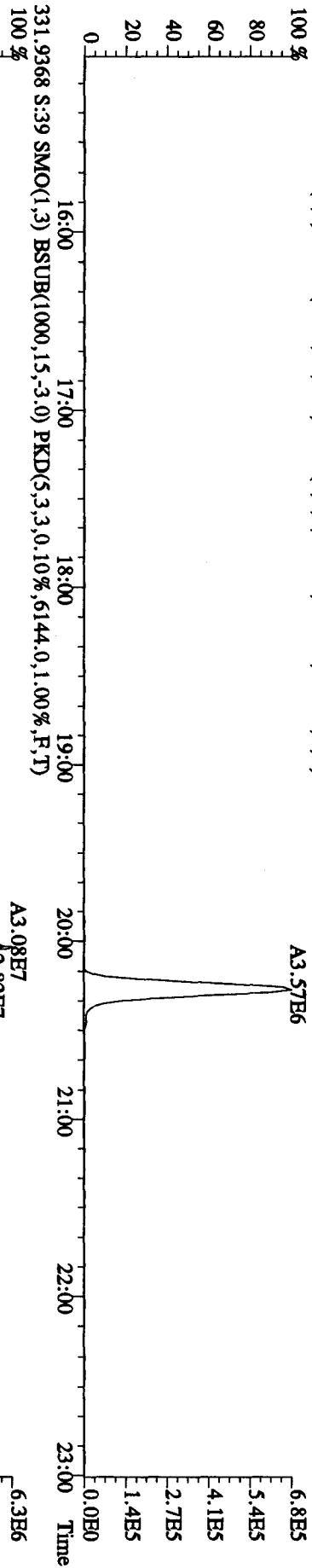
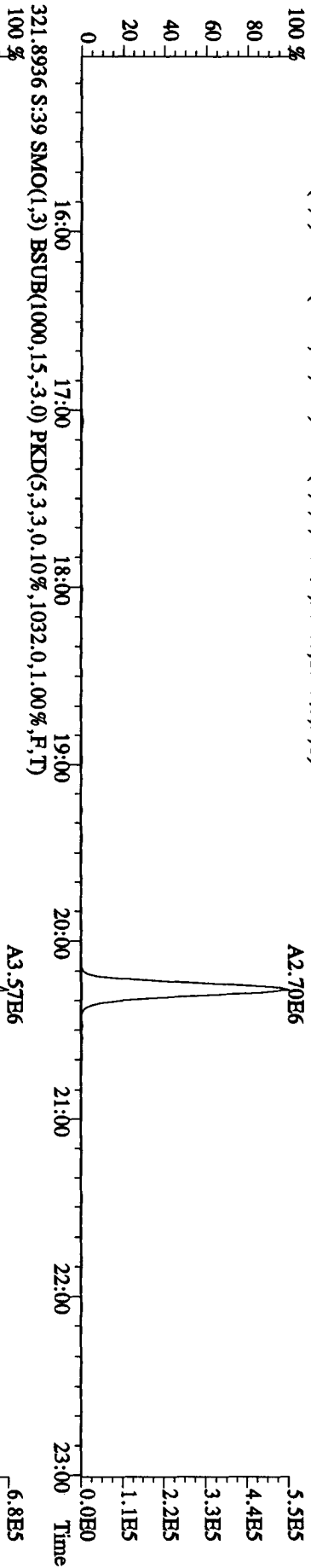
442.9728 S:32 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



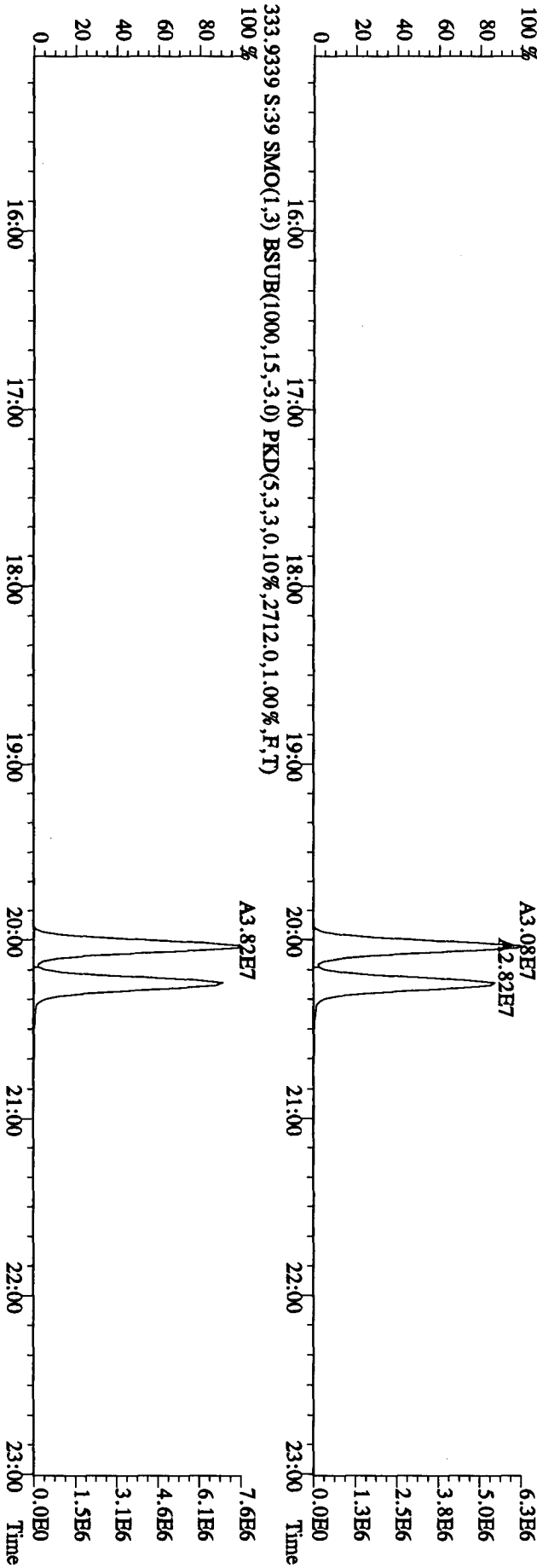
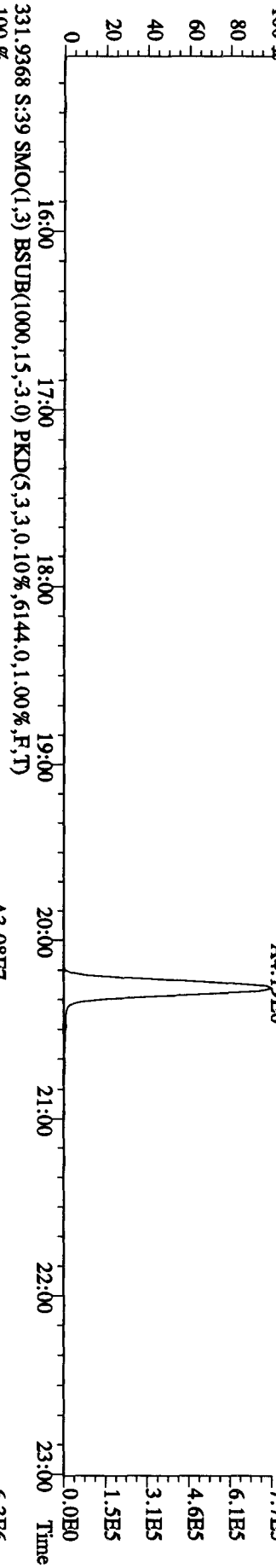
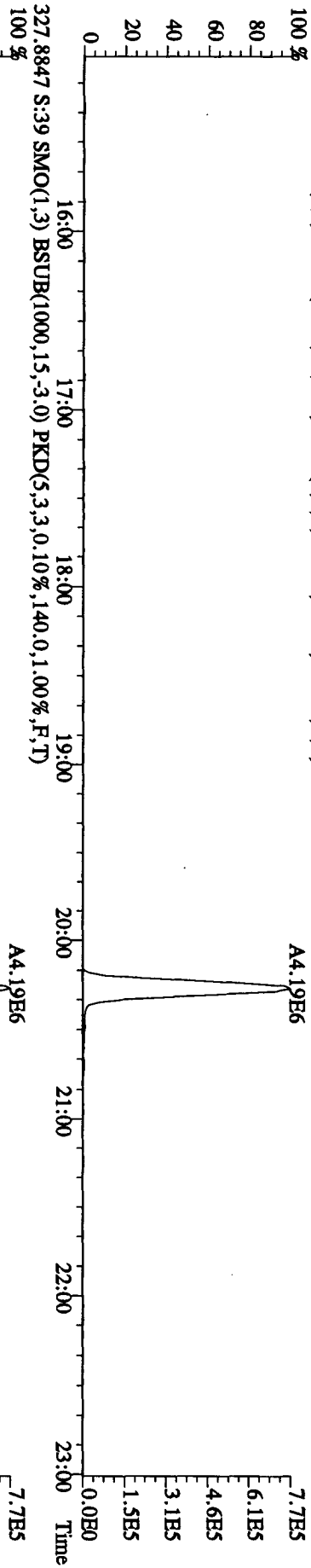
File:280C104D5 #1-530 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#39 Text:ST1028D :CS3 10DDXN461 Exp:DIOXINRES
303.9016 S:39 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,836.0,1.00%,F,T)
100%



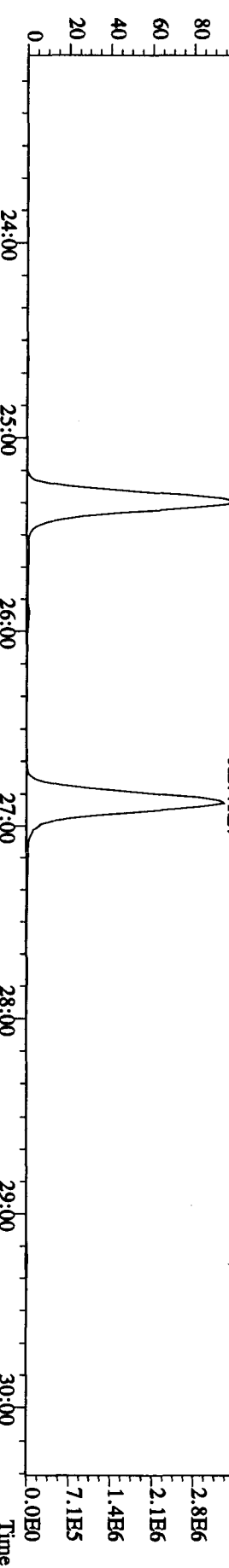
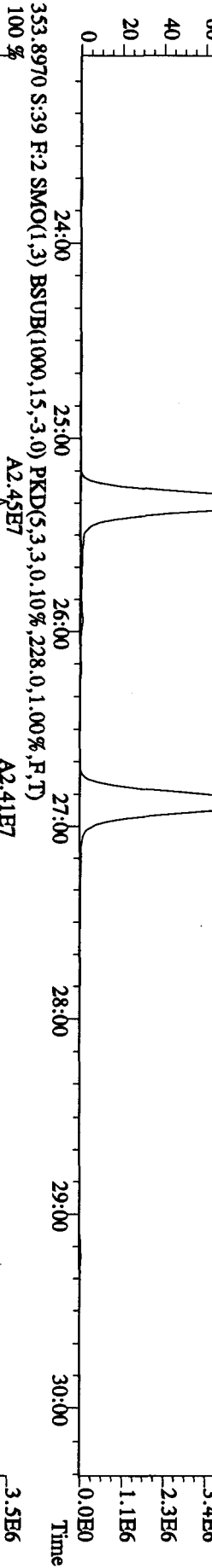
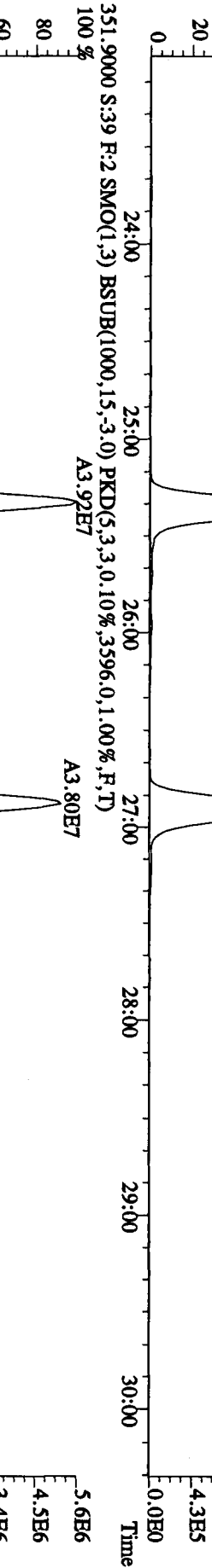
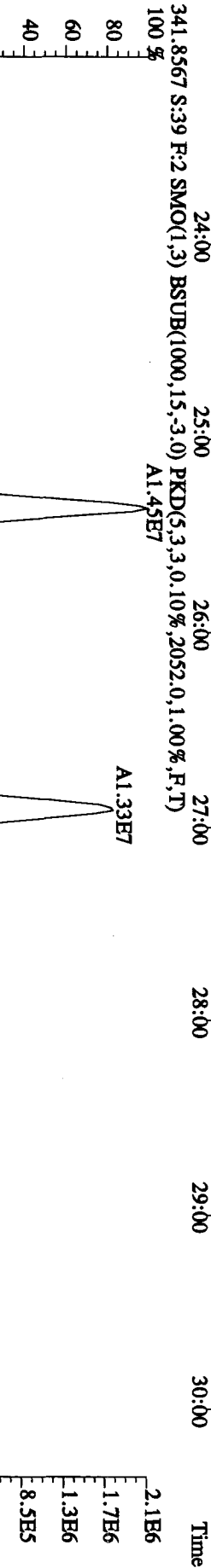
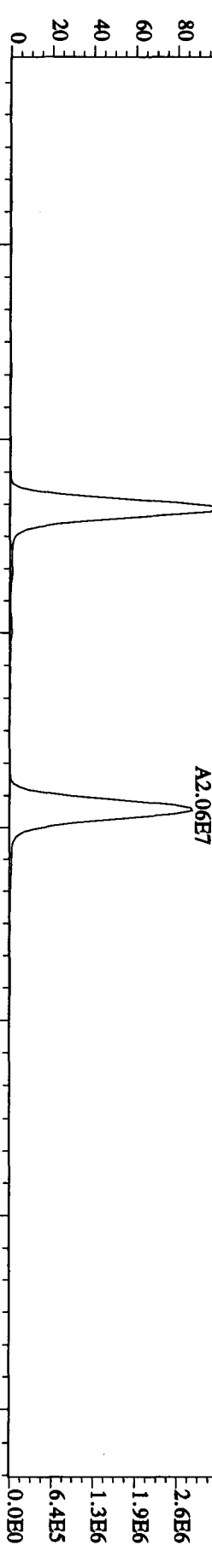
File:28OC104D5 #1-530 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp.:DIOXINRES
 319,8965 S:39 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,988,0,1,00%,F,T)
 100%



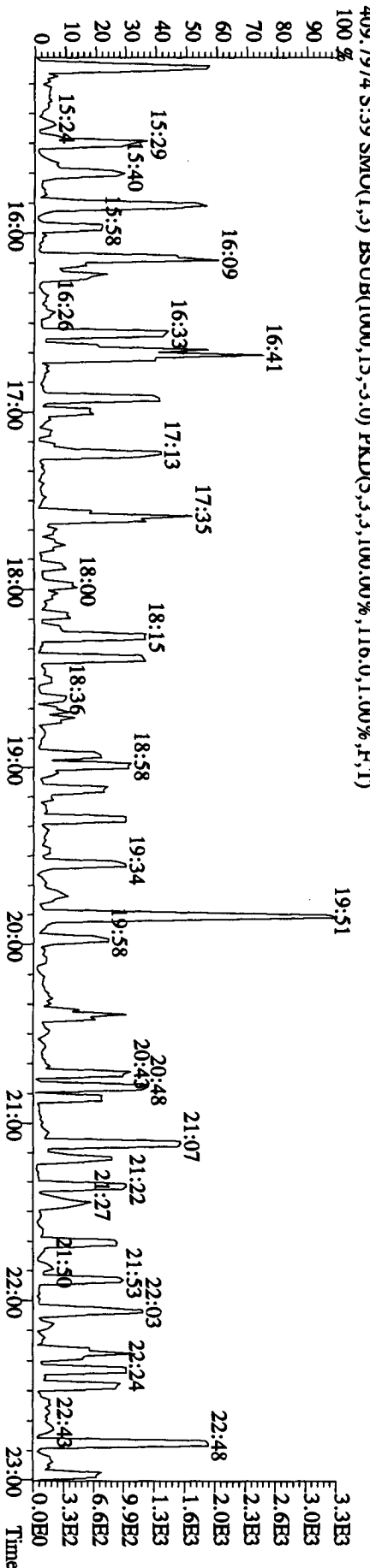
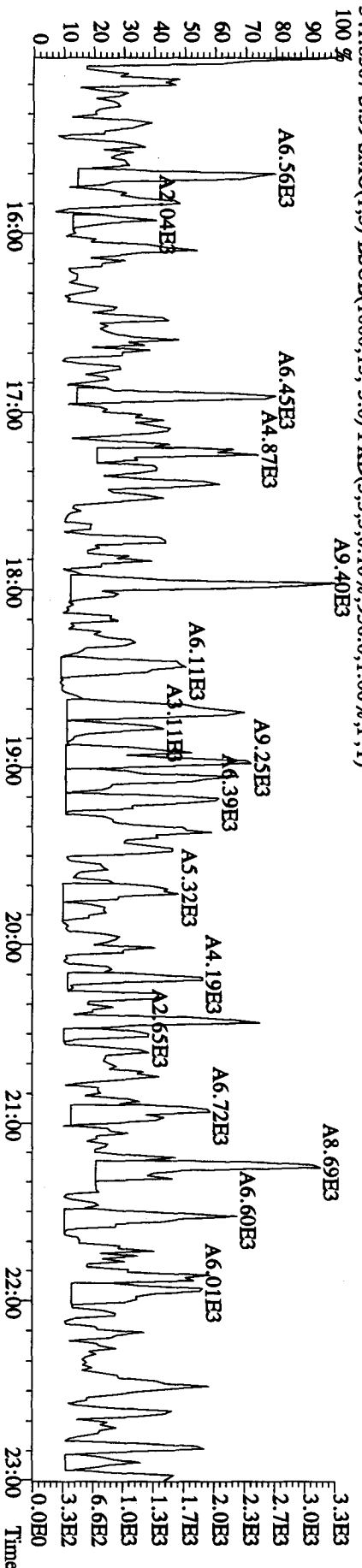
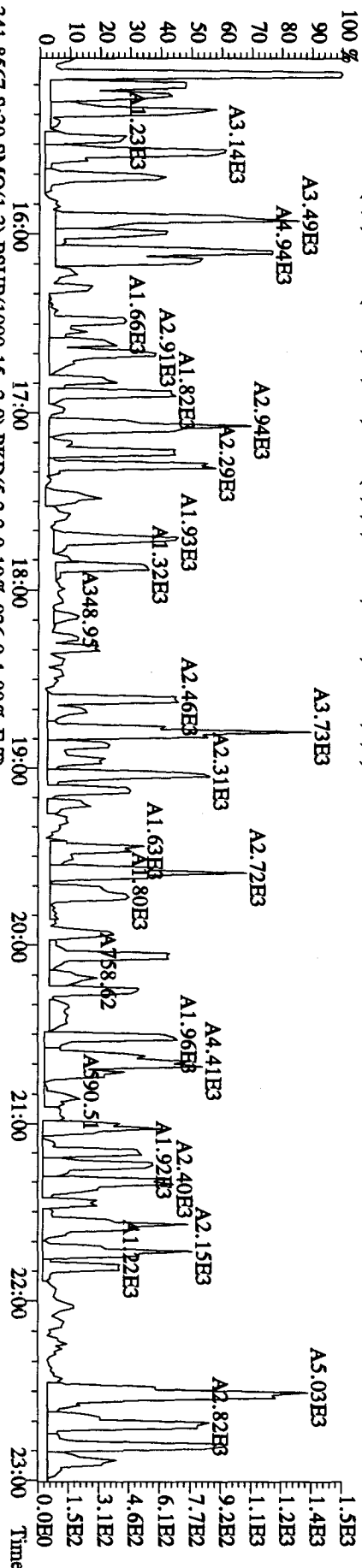
File:280C104D5 #1-530 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 327.8847 S:39 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,140,0,1,00%,F,T)
 100 %



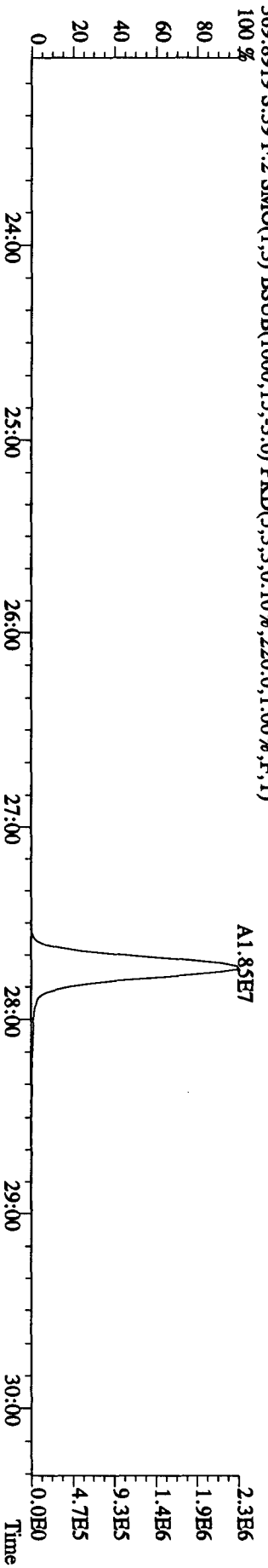
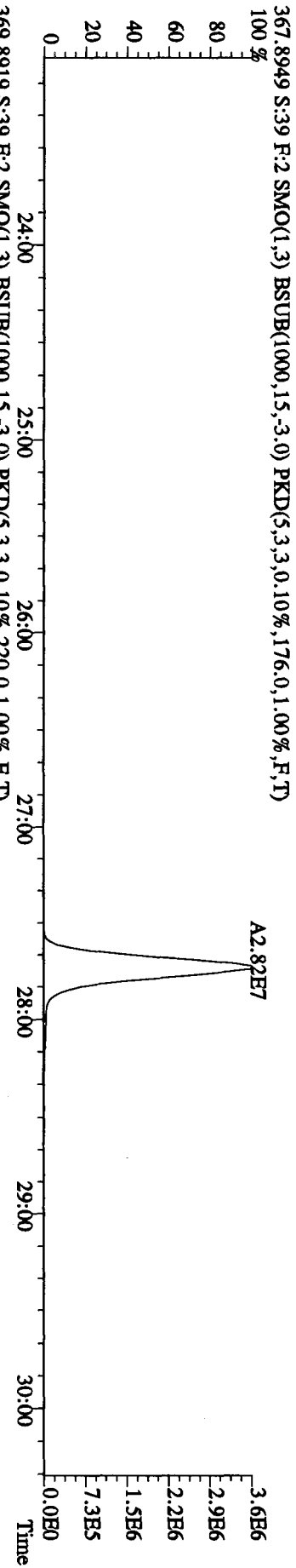
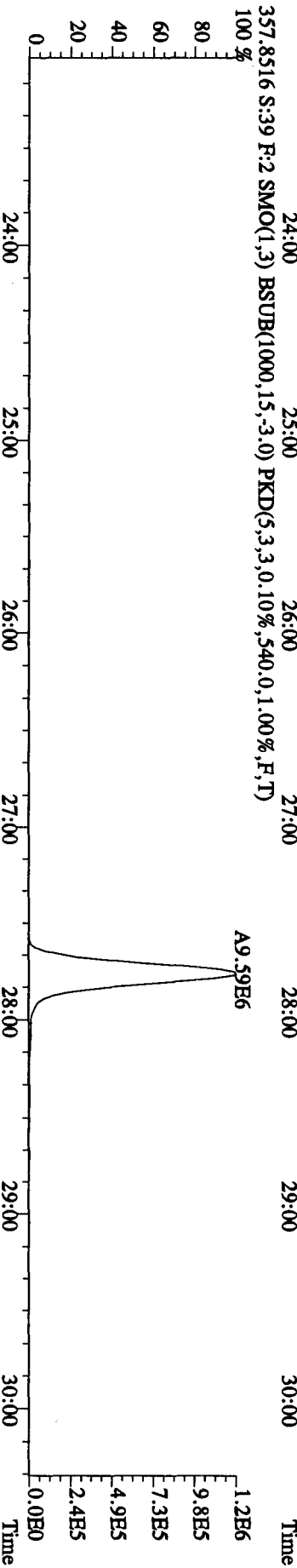
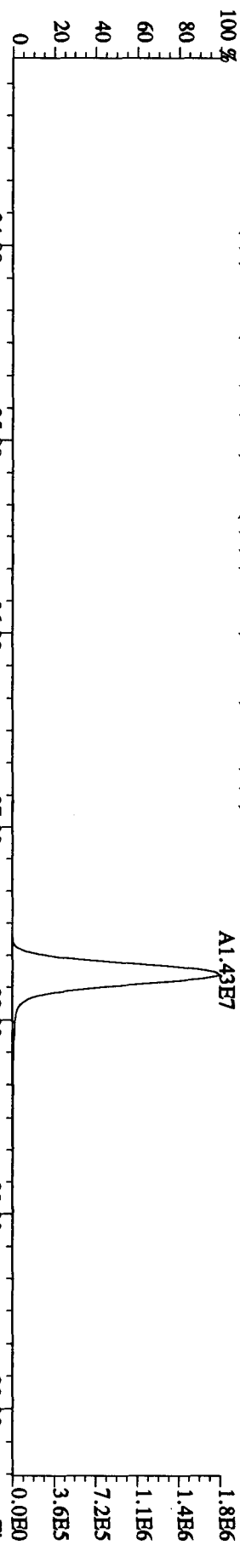
File:28OC104D5 #1-470 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#39 Text:ST1028D :CSS 10DXN461 Exp:DIOXINRES
 339.8597 S:39 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1812,0,1,00%,F,T)



File:28OC104D5 #1-530 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 339.8597 S:39 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)



File:28OC104D5 #1-470 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 355.8546 S:39 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1656,0,1,00%,F,T)
 100%

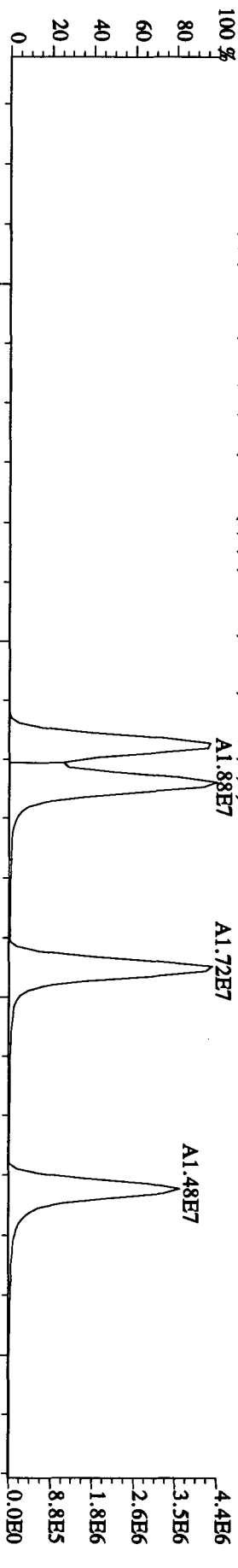


File:280C104D5 #1-287 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-Ultimate

Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES

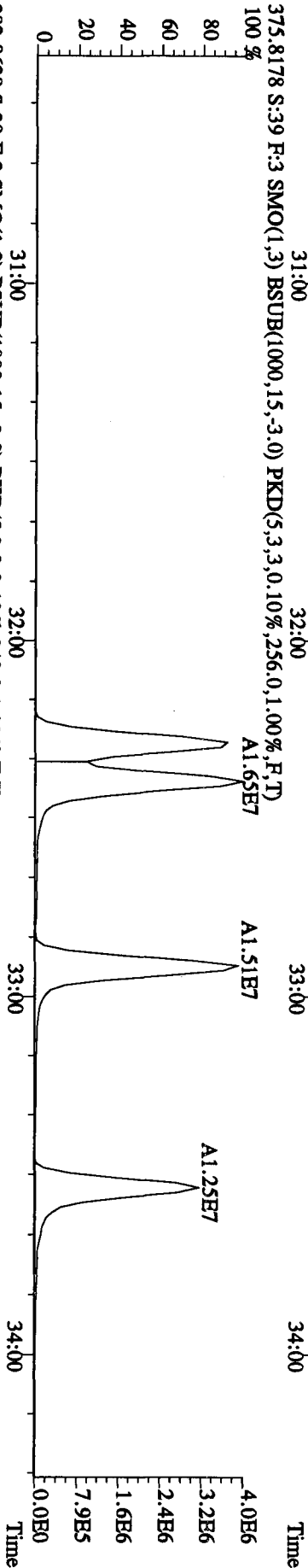
373.8208 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.548,0.1,1.00%,F,T)

100 %



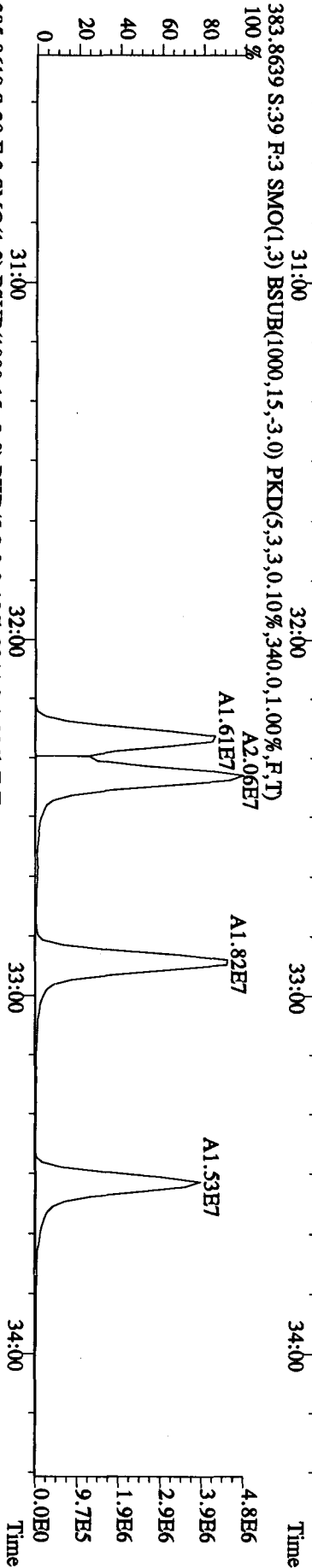
375.8178 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.256,0.1,1.00%,F,T)

100 %



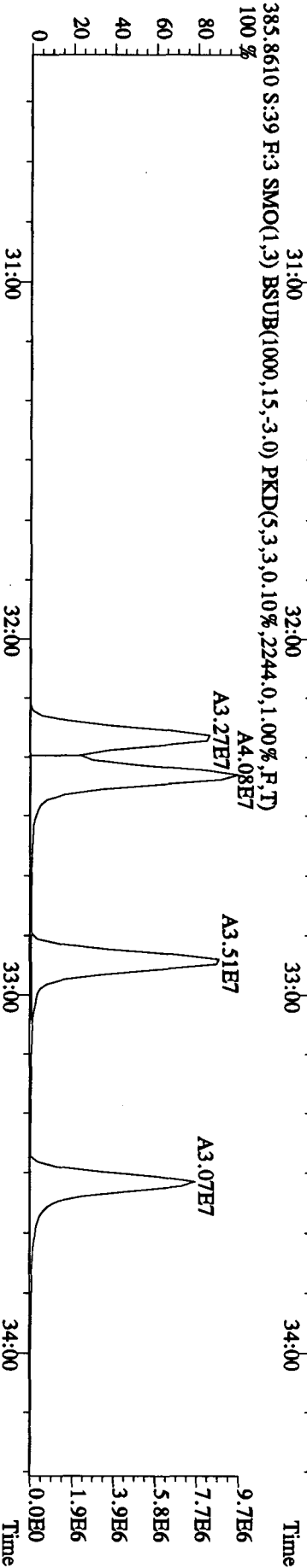
383.8639 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.340,0.1,1.00%,F,T)

100 %

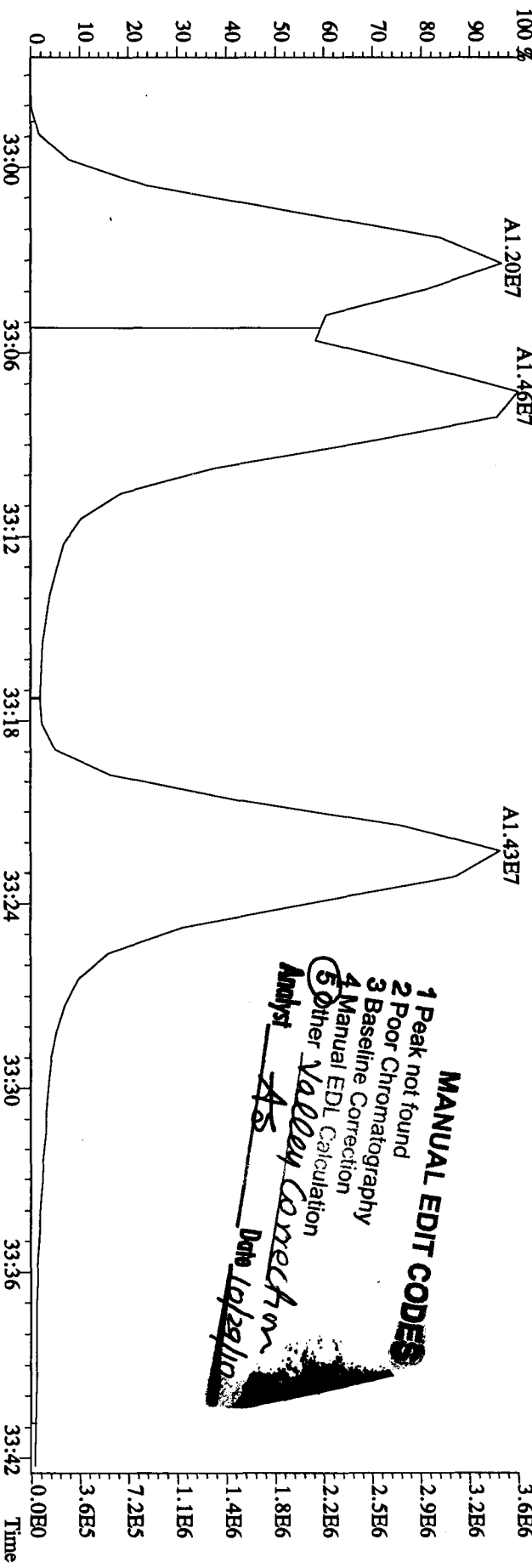


385.8610 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.2244,0.1,1.00%,F,T)

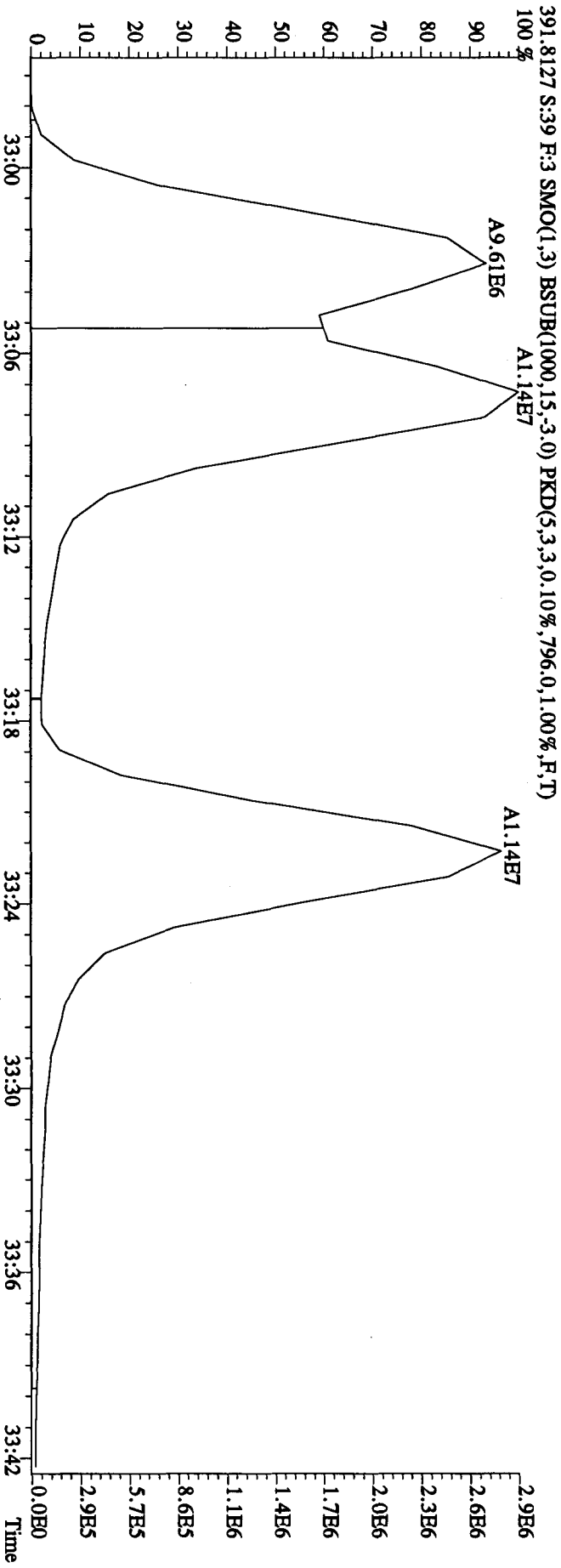
100 %



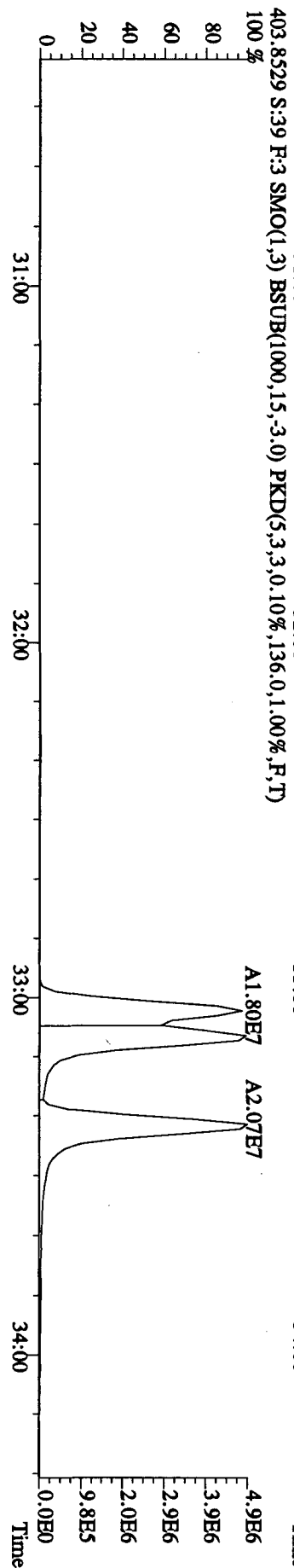
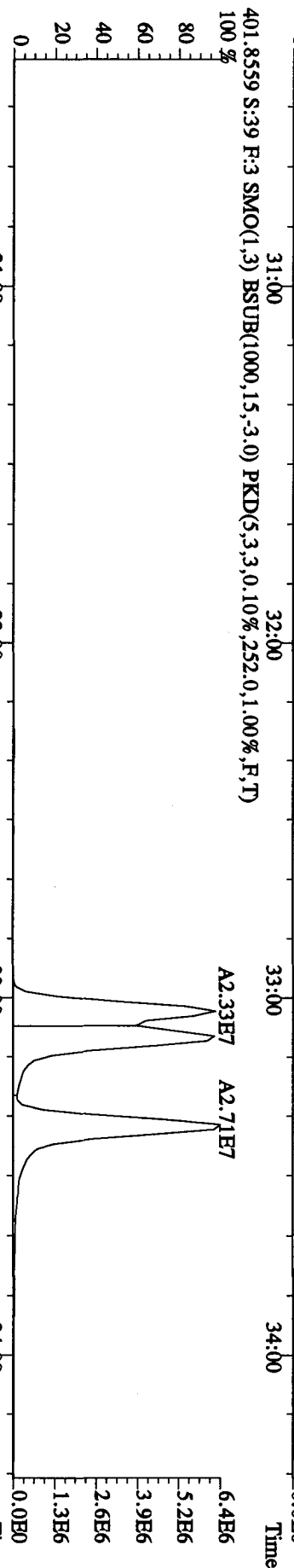
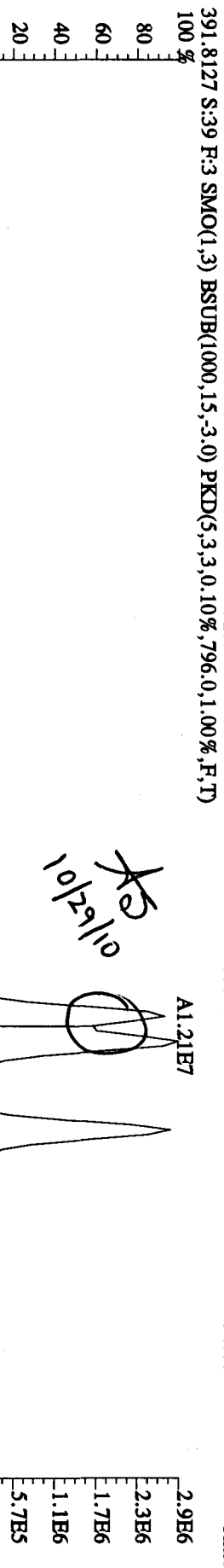
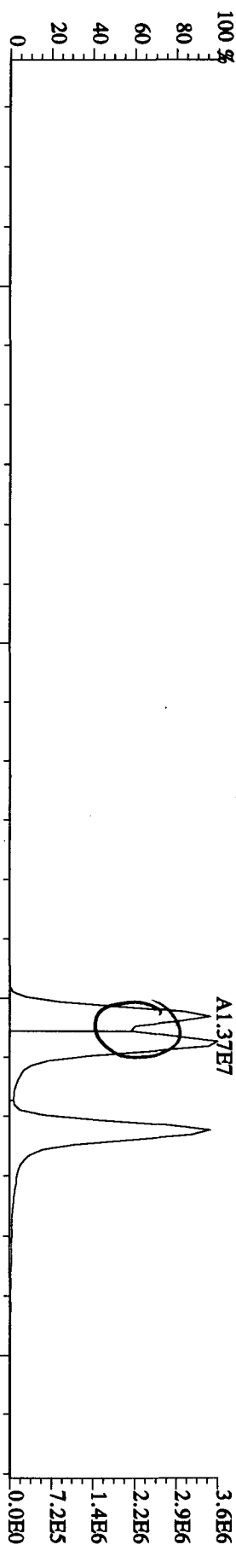
File:28OC104D5 #1-287 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 389.8157 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,368.0,1.00%,F,T)
 100%



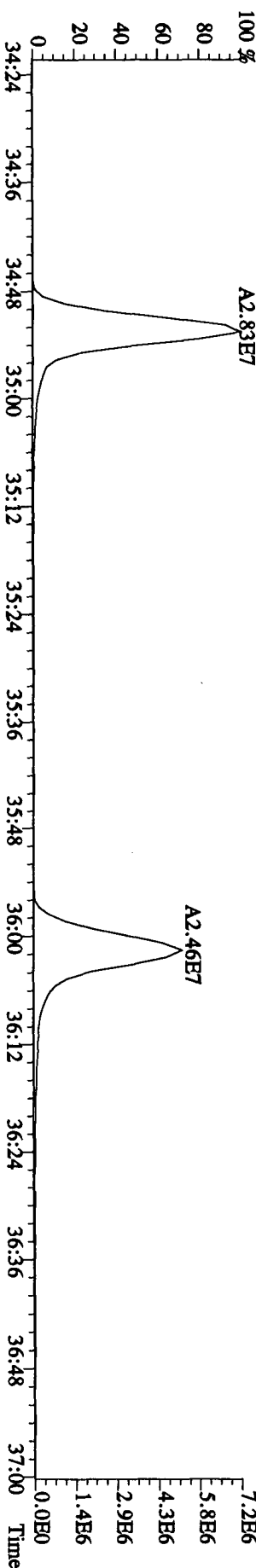
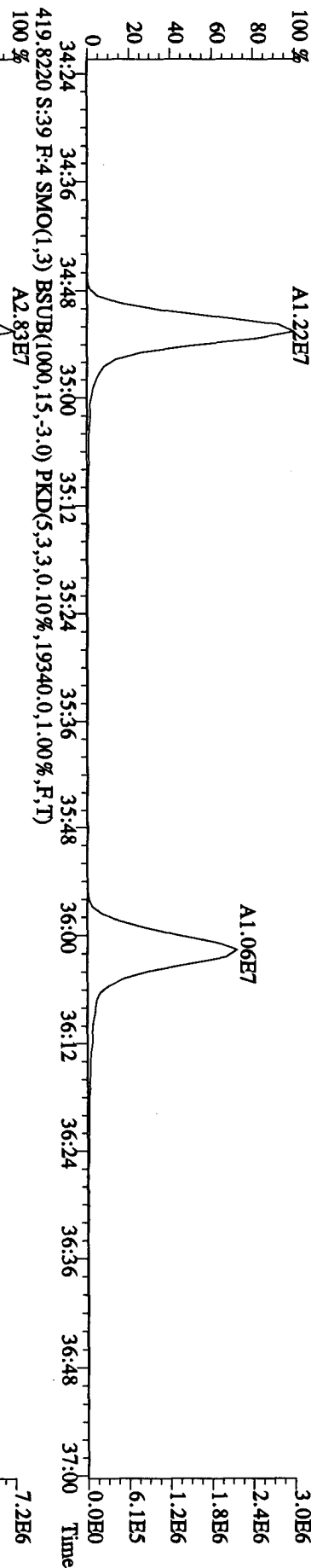
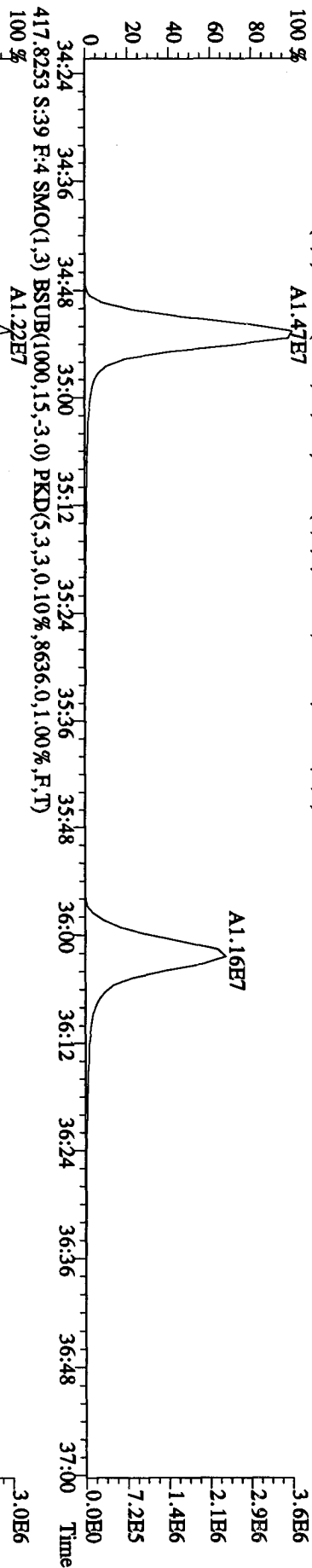
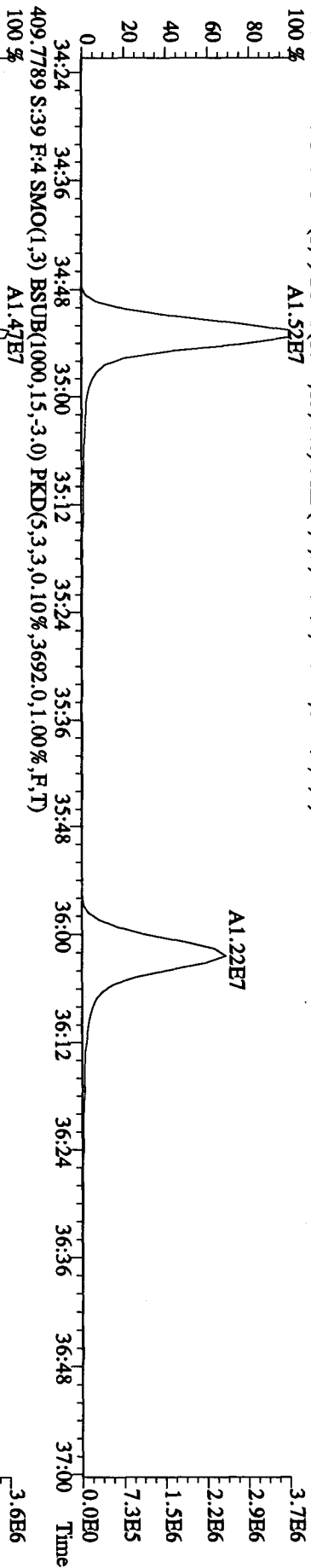
MANUAL EDIT CODES
 1 Peak not found
 2 Poor Chromatography
 3 Baseline Correction
 4 Manual EDL Calculation
 5 Other
 Valley Correction
 Analyst: AS
 Date: 10/29/10

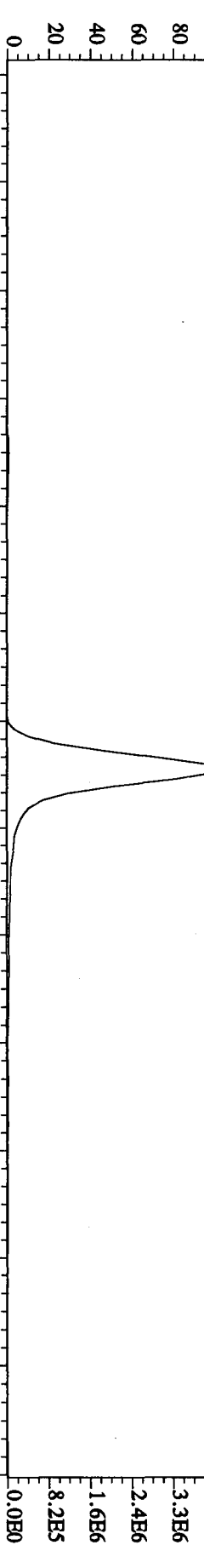
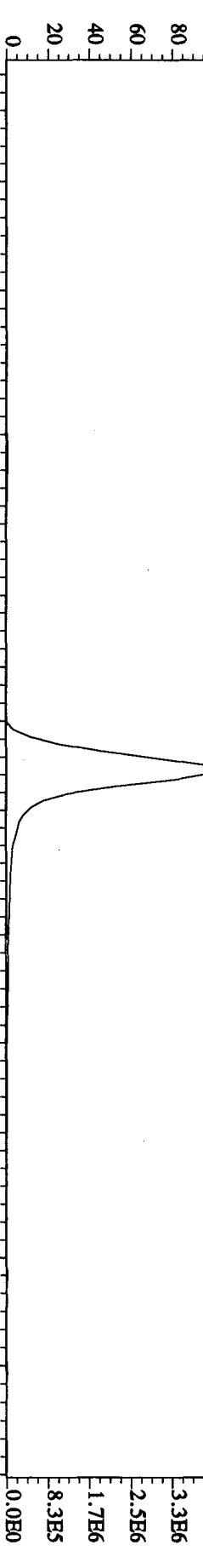
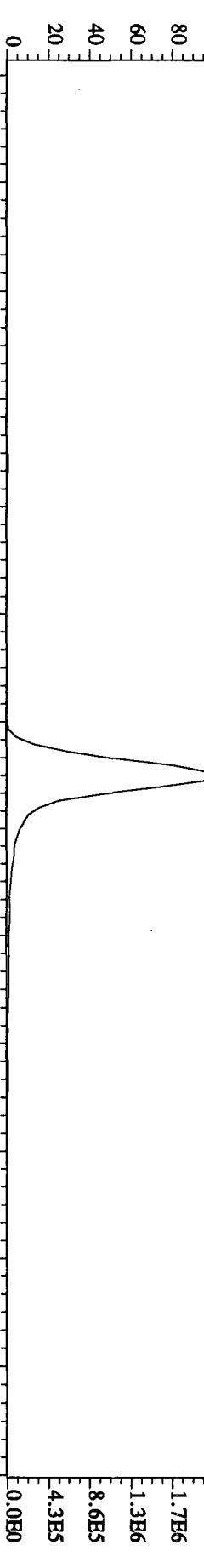
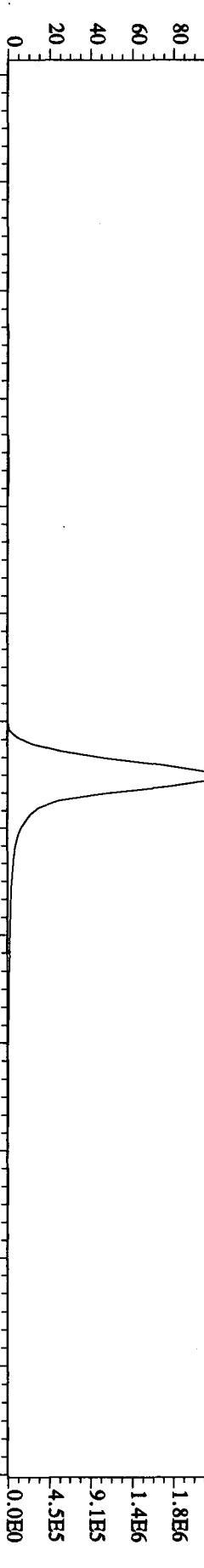


File: 280C104D5 #1-287 Acq: 29-OCT-2010 13:51:59 GC EI + Voltage SIR Autospec-UltimaB
 Sample#39 Text: ST1028D :CS3 10DXN461 Exp: DIOXINRES
 389.8157 S:39 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,368,0,1,00%,F,T)



File:280C104D5 #1-200 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 407.7818 S:39 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7012.0,1.00%,F,T)
 100 % A1.52E7

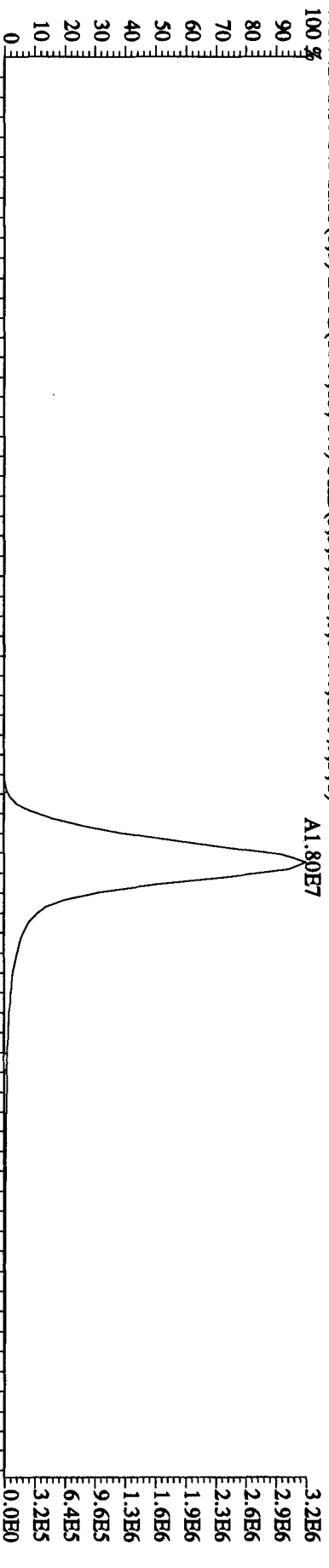




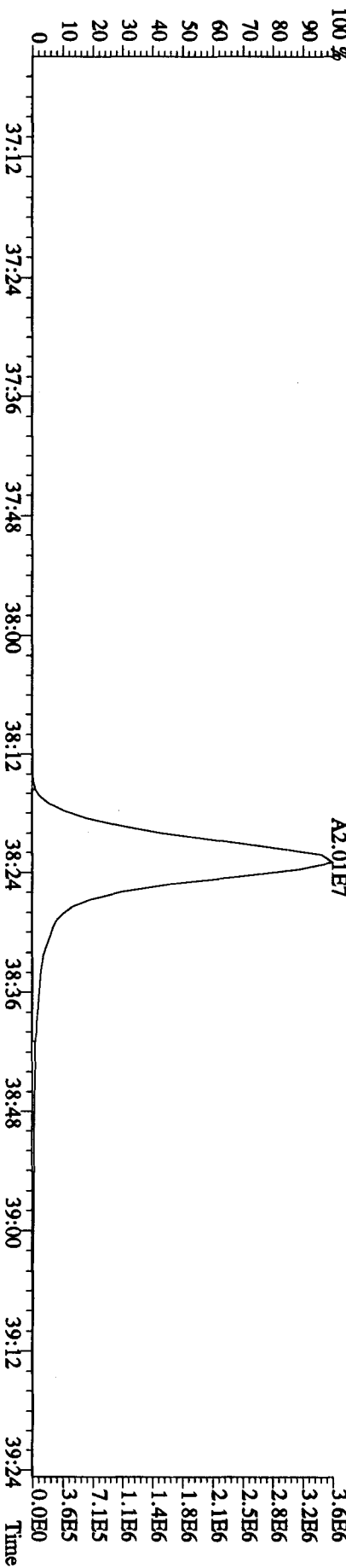
File:28OC104D5 #1-193 Acq:29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-Ultimate

Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES

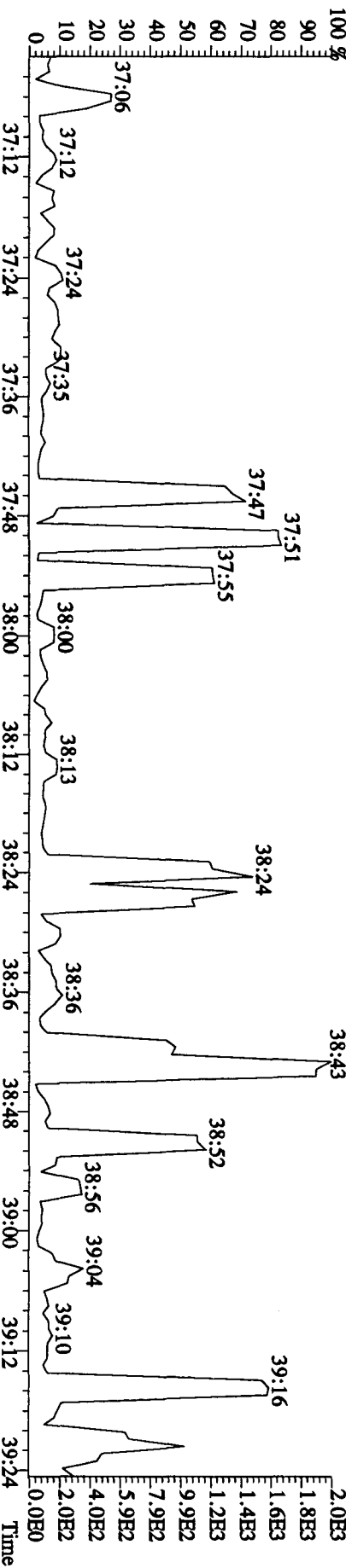
441.7428 S:39 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,840.0,1.00%,F,T)



443.7399 S:39 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3504.0,1.00%,F,T)



513.6775 S:39 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,132.0,1.00%,F,T)



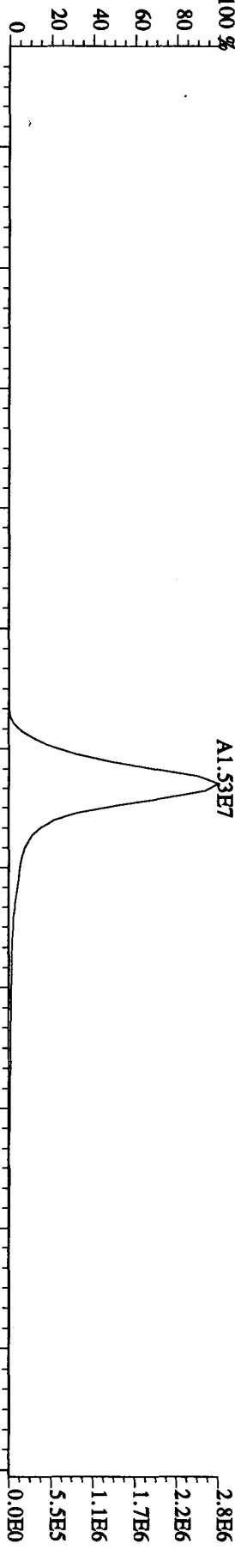
Sample#39 Text:ST1028D :CS3 10DDXN461

Exp:DIOXINRES

457.7377 S:39 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)

100 %

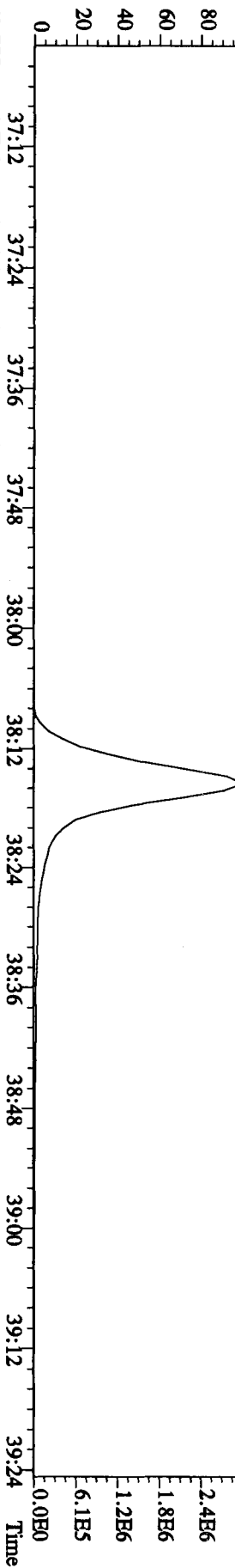
A1.53E7



459.7348 S:39 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5912.0,1.00%,F,T)

100 %

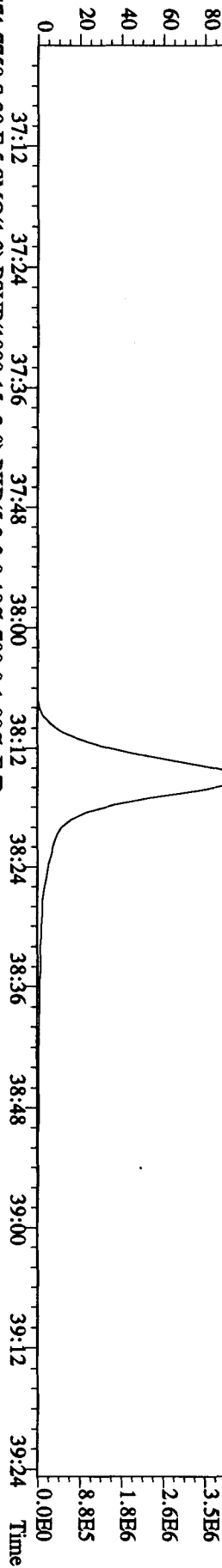
A1.67E7



469.7779 S:39 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2968.0,1.00%,F,T)

100 %

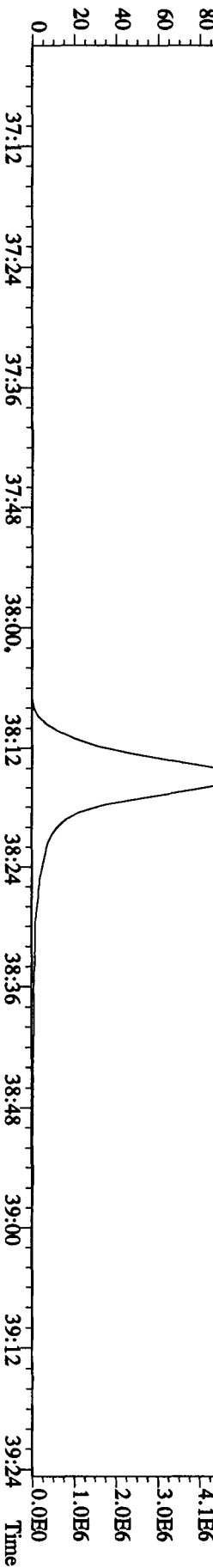
A2.45E7



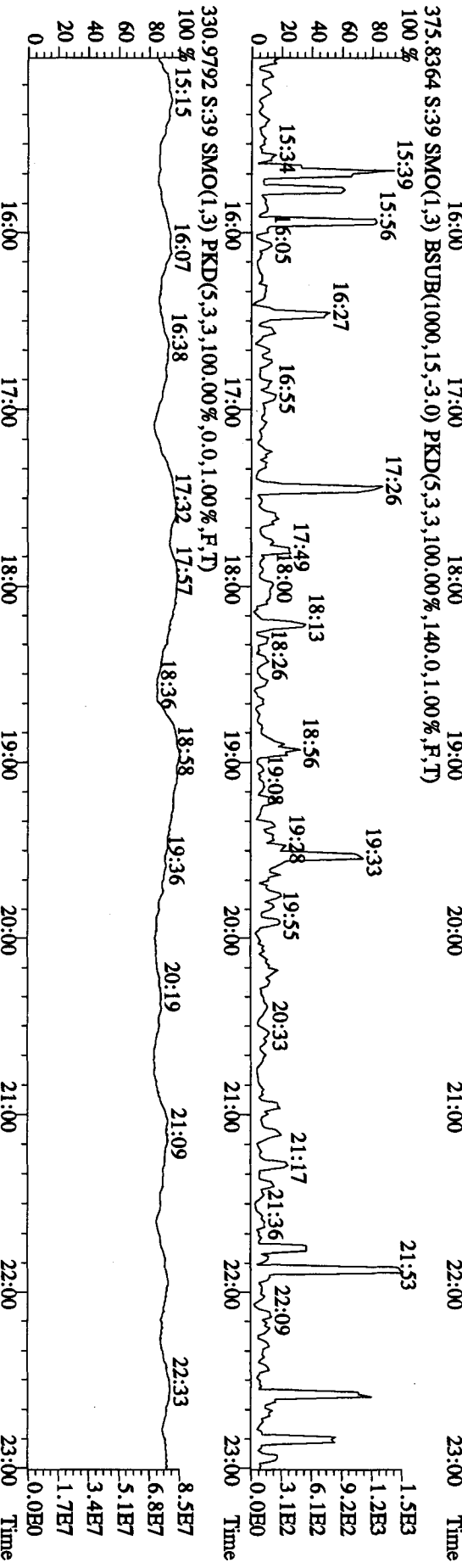
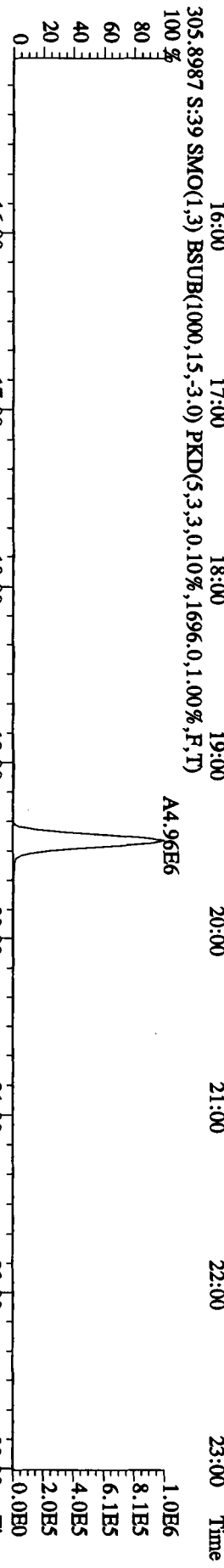
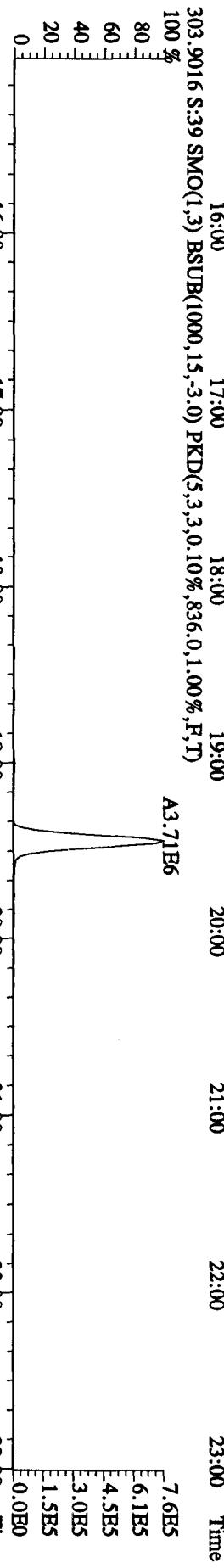
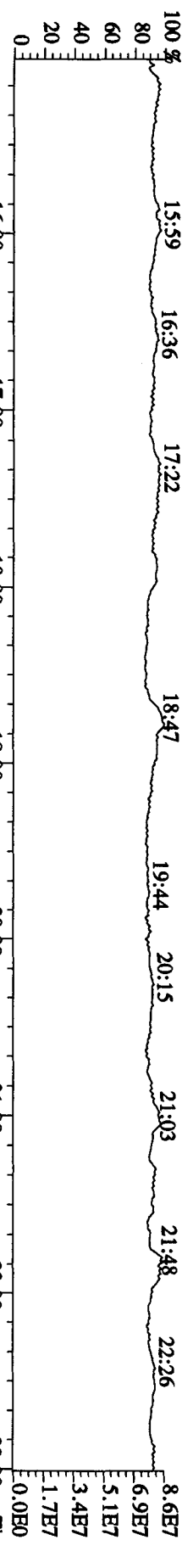
471.7750 S:39 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)

100 %

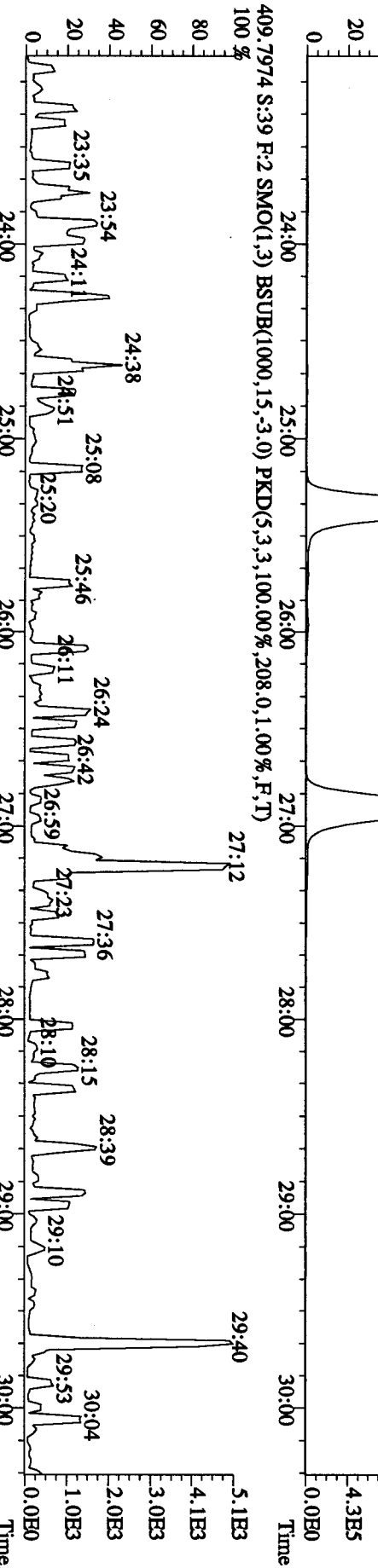
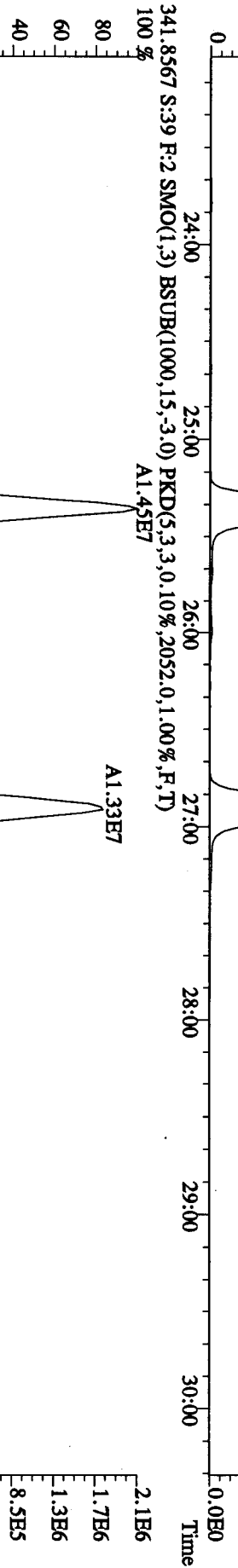
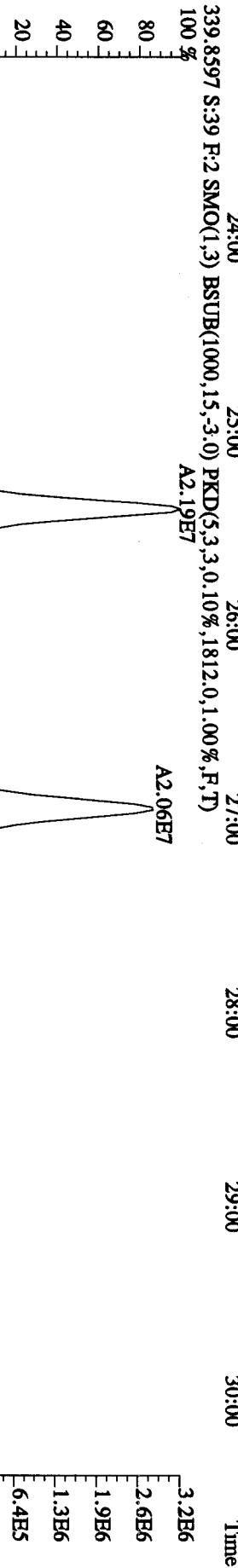
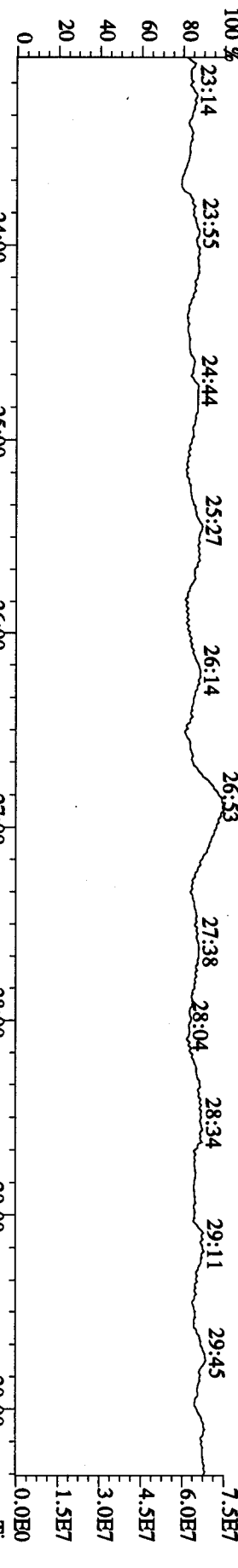
A2.82E7



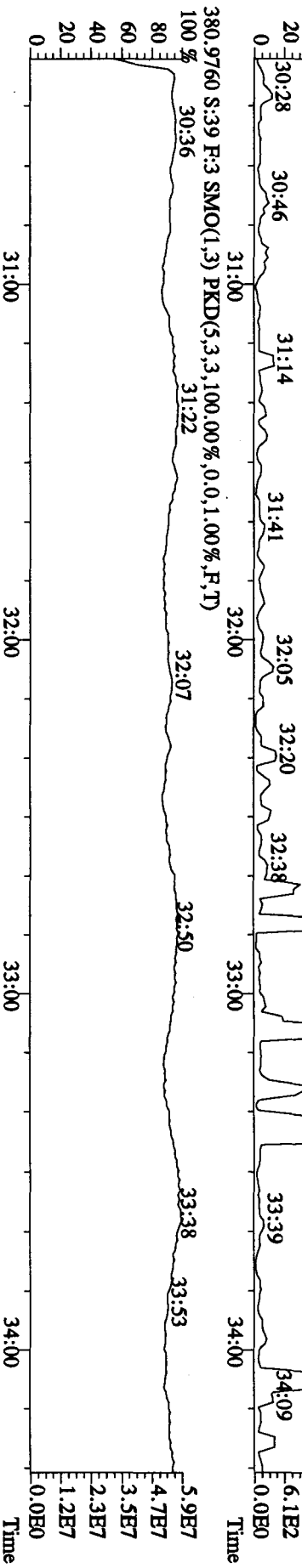
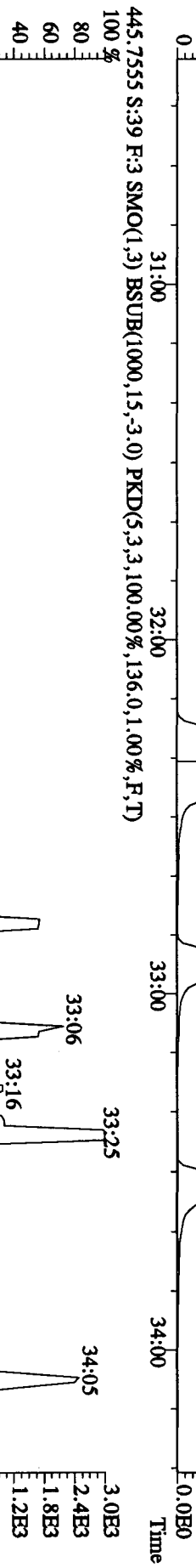
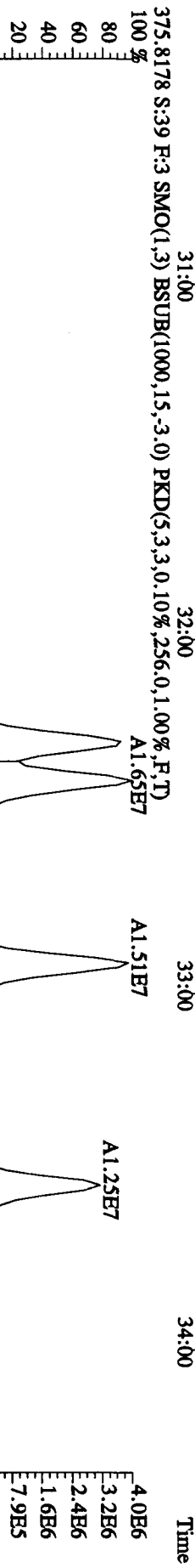
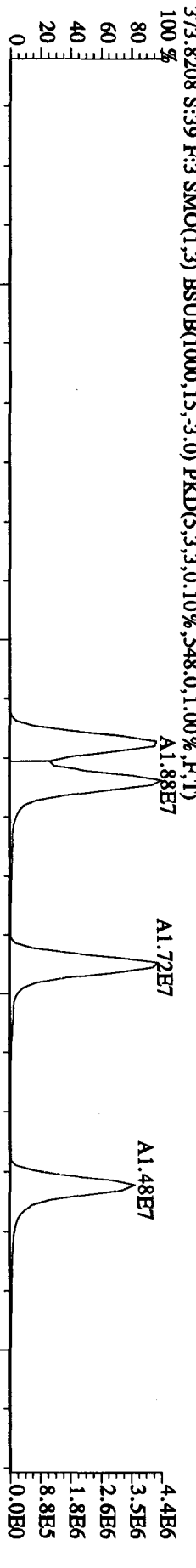
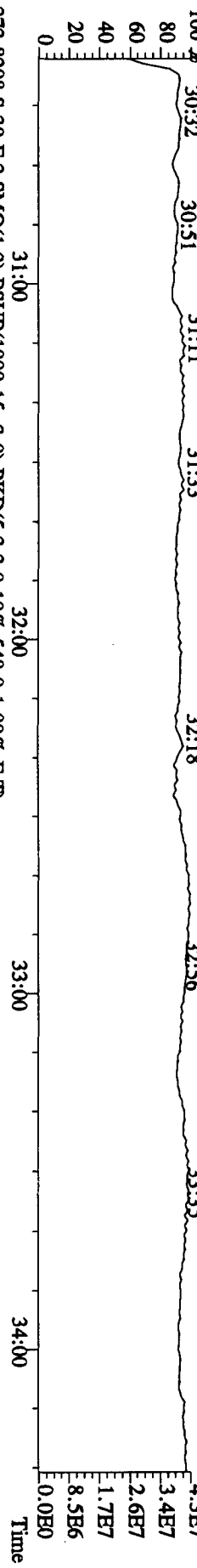
Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES



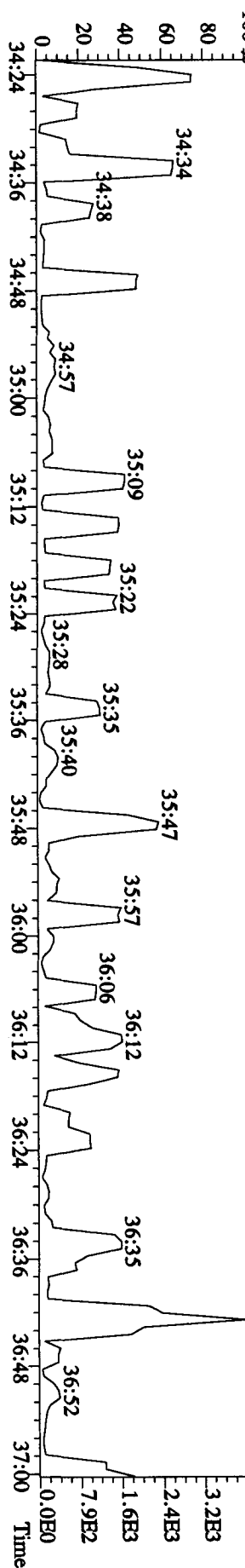
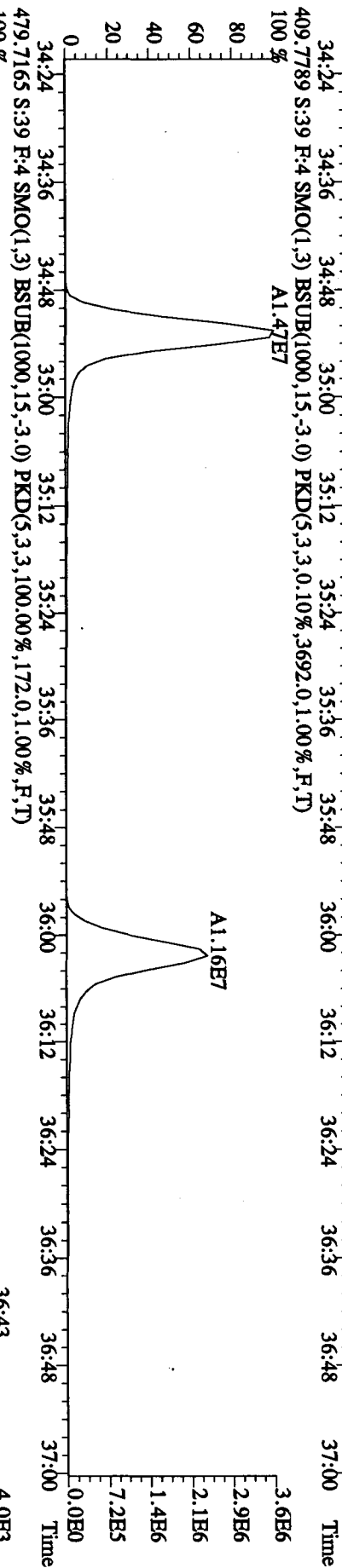
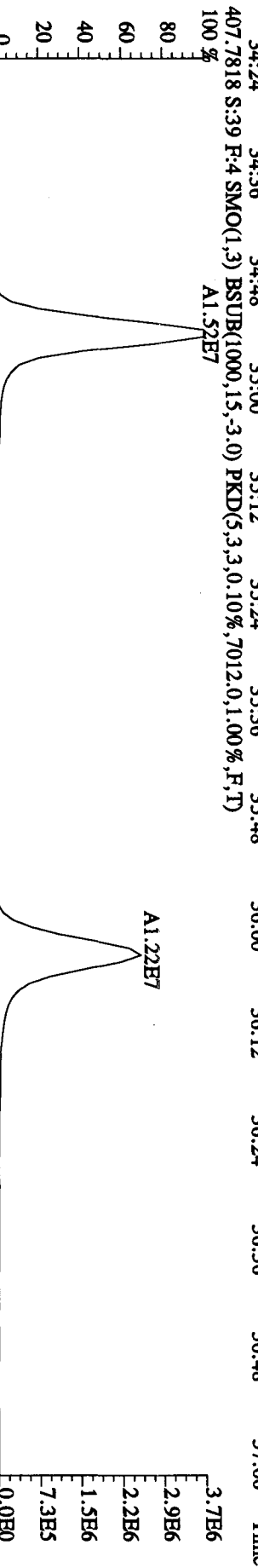
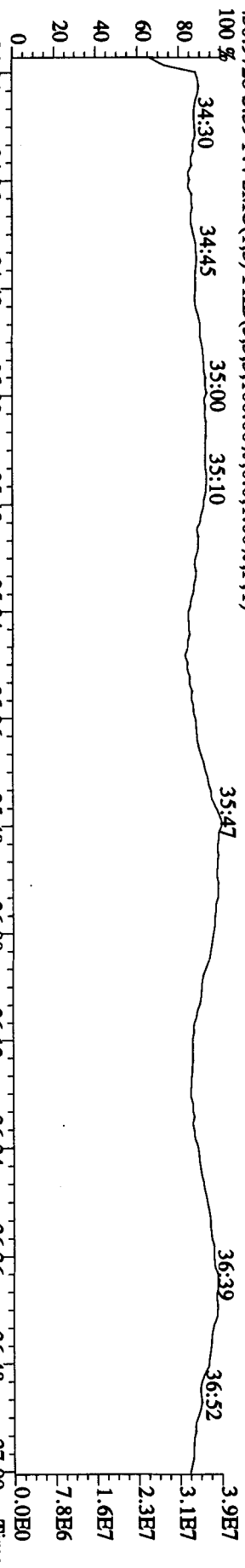
File: 280C104D5 #1-470 Acq: 29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#39 Text: ST1028D :CS3 10DXN461 Exp: DIOXINRES
 342.9792 S:39 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



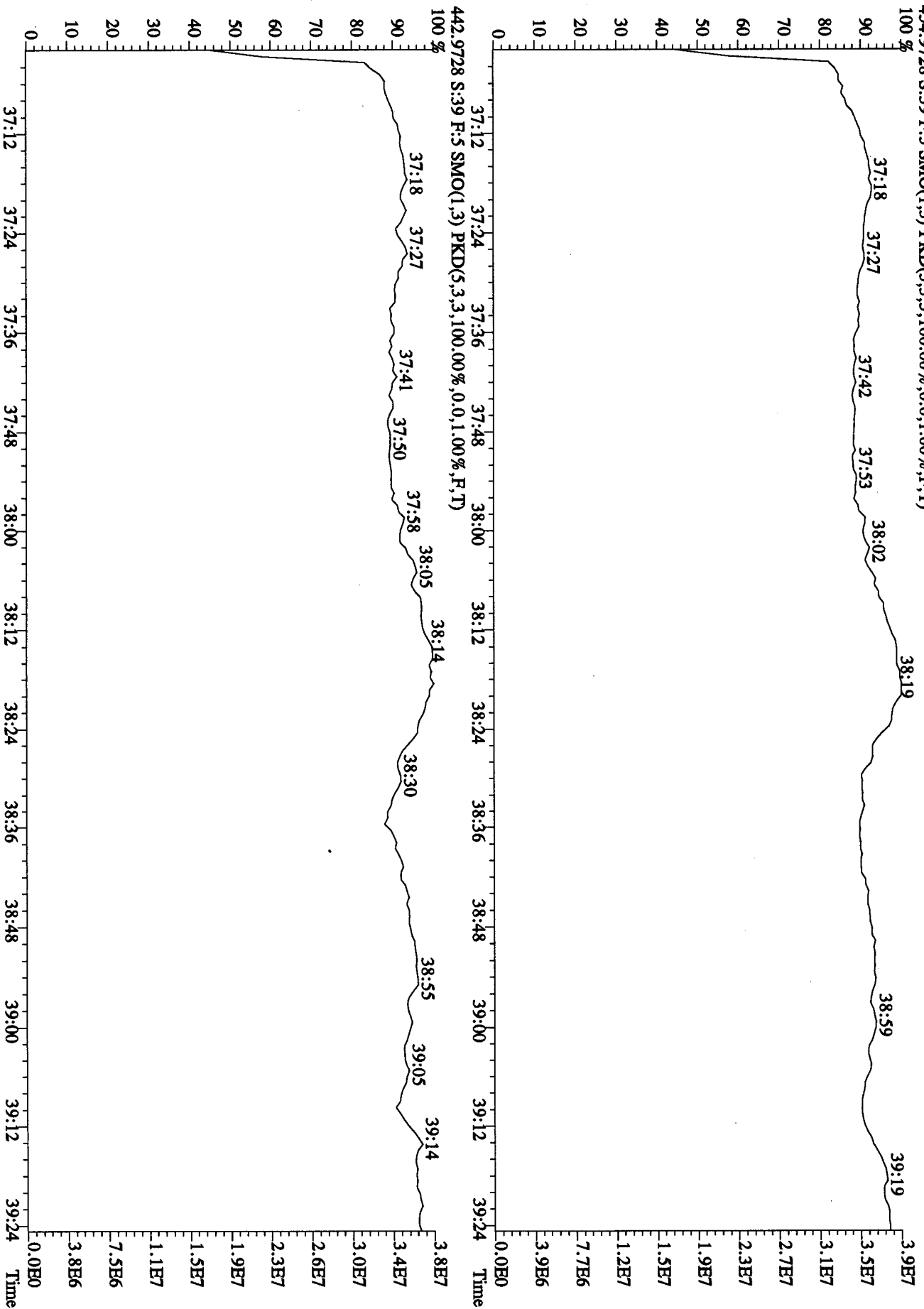
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 Sample#39 Text:ST1028D :CS3 10DXN461 Exp:DIOXINRES
 392.9760 S:39 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 30:32 30:51 31:11 31:33 32:18 32:56 33:35



File: 280C104D5 #1-200 Acq: 29-OCT-2010 13:51:59 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#39 Text: ST1028D :CS3 10DXN461 Exp: DIOXINRES
 430.9728 S:39 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



File: 28OC104D5 #1-193 Acq: 29-OCT-2010 13:51:59 GC EI + Voltage SIR Autospec-UltimaE
 Sample#39 Text: ST1028D :CS3 10DXN461 Exp: DIOXINRES
 454.9728 S:39 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID TO9

Associated ICAL TO9 0721104D5

Column ID DB5

Instrument ID 4D5

STD ID ST1028, ST1028A

STD Solution 10 DXN461

Analyzed by AS

Date Analyzed 10-28-10

Std. Pkg. By AS

Date Std. Pkg. Assembled 10-28-10

Std. Pkg. Reviewed By AM

Date Std. Pkg. Reviewed 10-28-10

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: ST1028 File text: ST1028 :CS3 10DXN461
 Run #6 Filename 28OC104D5 S: 2 I: 1
 Acquired: 28-OCT-10 10:21:31 Processed: 28-OCT-10 12:16:42
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	63785800	0.79 y	20:02	-	100.00	-	n
13C-2,3,7,8-TCDF	77339500	0.81 y	19:26	1.21	100.00	-1.4	n
2,3,7,8-TCDF	7989450	0.78 y	19:27	1.03	10.00	3.9	n
Total TCDF	8058792	0.76 y	19:00	1.03	10.00	3.9	n
13C-2,3,7,8-TCDD	59280700	0.78 y	20:15	0.93	100.00	2.7	n
2,3,7,8-TCDD	5852080	0.77 y	20:16	0.99	10.00	0.4	n
Total TCDD	5934588	0.68 y	19:00	0.99	10.00	0.4	n
37Cl-2,3,7,8-TCDD	7948220	1.00 y	20:16	1.34	10.00	1.1	n
13C-1,2,3,7,8-PeCDF	61863100	1.55 y	25:21	0.97	100.00	10.7	n
1,2,3,7,8-PeCDF	35289000	1.52 y	25:22	1.14	50.00	6.0	n
2,3,4,7,8-PeCDF	33069200	1.53 y	26:56	1.07	50.00	2.2	n
Total F2 PeCDF	69680008	1.02 n	23:43	1.10	100.00	4.1	n
Total F1 PeCDF	27884	0.47 n	16:05	1.10	100.00	4.1	n
13C-1,2,3,7,8-PeCDD	43513700	1.58 y	27:45	0.68	100.00	3.2	n
1,2,3,7,8-PeCDD	21588010	1.47 y	27:47	0.99	50.00	7.2	n
Total PeCDD	21653279	2.27 n	25:22	0.99	50.00	7.2	n
13C-1,2,3,7,8,9-HxCDD	45427600	1.27 y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	44885900	0.51 y	32:17	0.99	100.00	-5.4	n
1,2,3,4,7,8-HxCDF	29065400	1.23 y	32:18	1.30	50.00	6.4	n
1,2,3,6,7,8-HxCDF	33461400	1.10 y	32:24	1.49	50.00	16.3	n
2,3,4,6,7,8-HxCDF	29890200	1.12 y	32:56	1.33	50.00	8.0	n
1,2,3,7,8,9-HxCDF	26083400	1.15 y	33:33	1.16	50.00	5.8	n
Total HxCDF	118575212	1.22 y	31:17	1.32	200.00	9.3	n
13C-1,2,3,6,7,8-HxCDD	42116200	1.36 y	33:07	0.93	100.00	11.6	n
1,2,3,4,7,8-HxCDD	20712810	1.25 y	33:03	0.98	50.00	-5.2	n
1,2,3,6,7,8-HxCDD	23561100	1.28 y	33:08	1.12	50.00	-3.8	n
1,2,3,7,8,9-HxCDD	23976200	1.24 y	33:23	1.14	50.00	-3.7	n
Total HxCDD	68250110	1.25 y	33:03	1.08	150.00	-4.2	n
13C-1,2,3,4,6,7,8-HpCDF	37533900	0.44 y	34:53	0.83	100.00	-9.2	n
1,2,3,4,6,7,8-HpCDF	27448200	1.05 y	34:53	1.46	50.00	8.7	n
1,2,3,4,7,8,9-HpCDF	21978600	1.05 y	36:02	1.17	50.00	7.1	n
Total HpCDF	49589418	1.05 y	34:53	1.32	100.00	8.0	n
13C-1,2,3,4,6,7,8-HpCDD	34469900	1.03 y	35:43	0.76	100.00	-8.2	n
1,2,3,4,6,7,8-HpCDD	18973240	1.03 y	35:43	1.10	50.00	2.7	n
Total HpCDD	19058111	1.18 y	35:09	1.10	50.00	2.7	n
13C-OCDD	46903400	0.87 y	38:15	0.52	200.00	-16.7	n
OCDF	34393600	0.90 y	38:22	1.47	100.00	7.0	n
OCDD	28705400	0.91 y	38:16	1.22	100.00	2.1	n

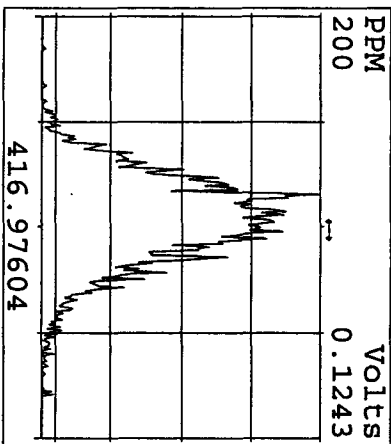
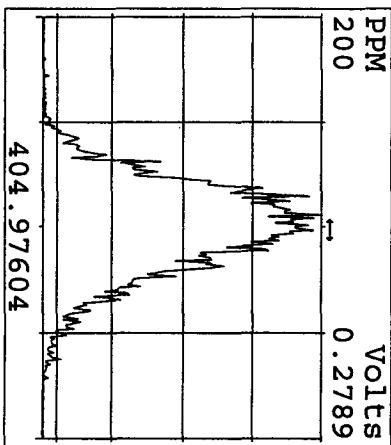
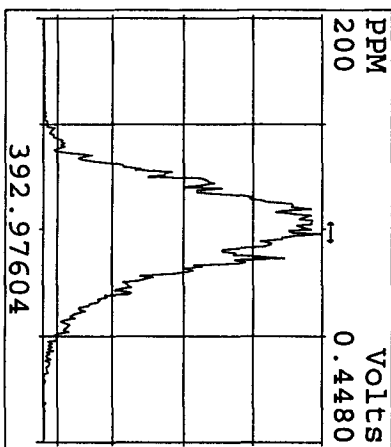
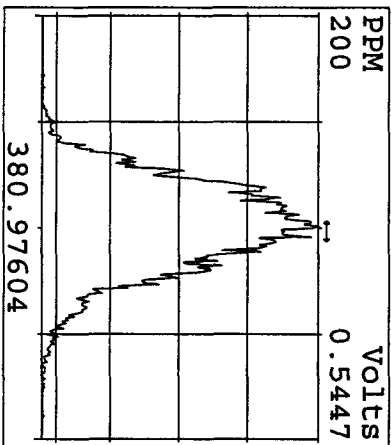
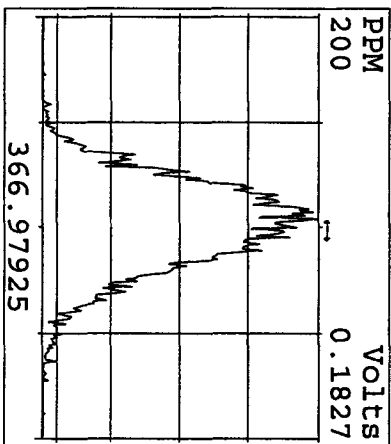
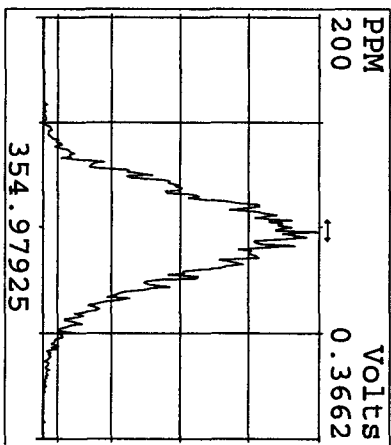
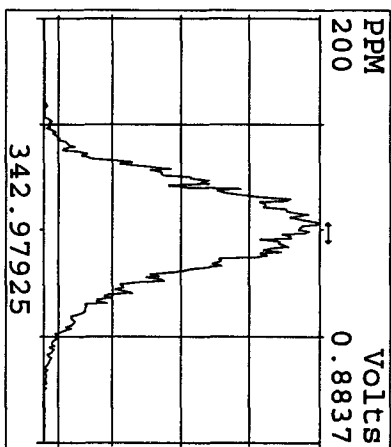
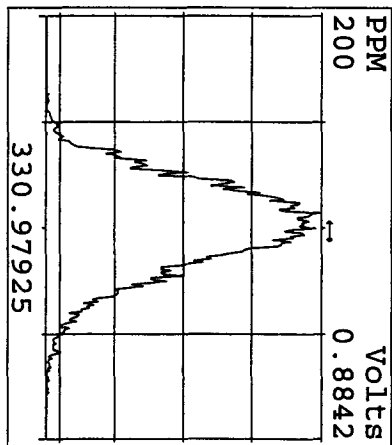
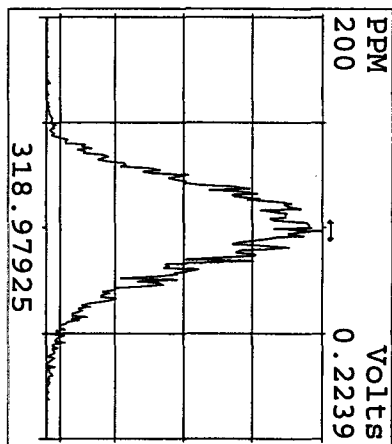
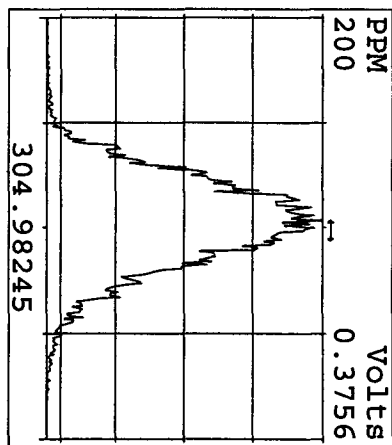
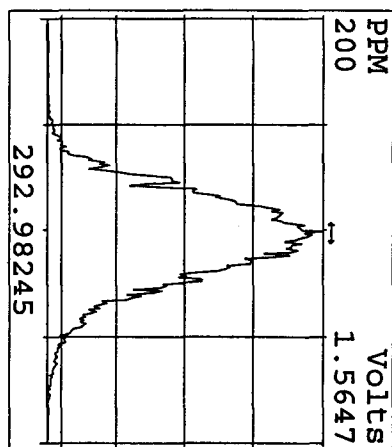
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 Run #9 Filename 28OC104D5 S: 6 I: 1
 Acquired: 28-OCT-10 13:19:54 Processed: 28-OCT-10 14:28:25
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	66003410	0.81 y	20:03	-	100.00	-	n
13C-2,3,7,8-TCDF	81307504	0.82 y	19:26	1.23	100.00	0.2	n
2,3,7,8-TCDF	8605043	0.76 y	19:27	1.06	10.00	6.4	n
Total TCDF	8699261	1.24 n	18:25	1.06	10.00	6.4	n
13C-2,3,7,8-TCDD	62167550	0.77 y	20:15	0.94	100.00	4.1	n
2,3,7,8-TCDD	6279414	0.80 y	20:16	1.01	10.00	2.7	n
Total TCDD	6369641	1.14 n	17:28	1.01	10.00	2.7	n
37Cl-2,3,7,8-TCDD	8026831	1.00 y	20:16	1.29	10.00	-2.6	n
13C-1,2,3,7,8-PeCDF	64991474	1.58 y	25:20	0.98	100.00	12.4	n
1,2,3,7,8-PeCDF	37199607	1.53 y	25:22	1.14	50.00	6.3	n
2,3,4,7,8-PeCDF	34525049	1.53 y	26:55	1.06	50.00	1.6	n
Total F2 PeCDF	72867424	4.11 n	23:45	1.10	100.00	4.0	n
Total F1 PeCDF	10449	0.29 n	15:51	1.10	100.00	4.0	n
13C-1,2,3,7,8-PeCDD	44749322	1.53 y	27:44	0.68	100.00	2.6	n
1,2,3,7,8-PeCDD	22564050	1.44 y	27:46	1.01	50.00	9.0	n
Total PeCDD	22564050	1.44 y	27:46	1.01	50.00	9.0	n
13C-1,2,3,7,8,9-HxCDD	48160166	1.27 y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	47526646	0.48 y	32:17	0.99	100.00	-5.5	n
1,2,3,4,7,8-HxCDF	29036472	1.13 y	32:17	1.22	50.00	0.4	n
1,2,3,6,7,8-HxCDF	33492106	1.13 y	32:24	1.41	50.00	10.0	n
2,3,4,6,7,8-HxCDF	30612069	1.12 y	32:55	1.29	50.00	4.4	n
1,2,3,7,8,9-HxCDF	26934656	1.19 y	33:32	1.13	50.00	3.2	n
Total HxCDF	120142987	0.96 n	31:17	1.26	200.00	4.6	n
13C-1,2,3,6,7,8-HxCDD	44153310	1.12 y	33:07	0.92	100.00	10.4	n
1,2,3,4,7,8-HxCDD	19323138	1.26 y	33:03	0.88	50.00	-15.6	n
1,2,3,6,7,8-HxCDD	26741015	1.29 y	33:07	1.21	50.00	4.2	n
1,2,3,7,8,9-HxCDD	24993008	1.25 y	33:22	1.13	50.00	-4.2	n
Total HxCDD	71057161	1.26 y	33:03	1.07	150.00	-4.8	n
13C-1,2,3,4,6,7,8-HpCDF	38710548	0.42 y	34:52	0.80	100.00	-11.7	n
1,2,3,4,6,7,8-HpCDF	28524424	1.04 y	34:53	1.47	50.00	9.5	n
1,2,3,4,7,8,9-HpCDF	24029531	1.05 y	36:02	1.24	50.00	13.5	n
Total HpCDF	52615212	1.04 y	34:53	1.36	100.00	11.3	n
13C-1,2,3,4,6,7,8-HpCDD	37092994	1.00 y	35:42	0.77	100.00	-6.8	n
1,2,3,4,6,7,8-HpCDD	20119304	1.01 y	35:43	1.08	50.00	1.2	n
Total HpCDD	20206657	1.01 y	35:08	1.08	50.00	1.2	n
13C-OCDD	51712994	0.86 y	38:16	0.54	200.00	-13.4	n
OCDF	36867350	0.90 y	38:23	1.43	100.00	4.1	n
OCDD	31545550	0.91 y	38:16	1.22	100.00	1.7	n

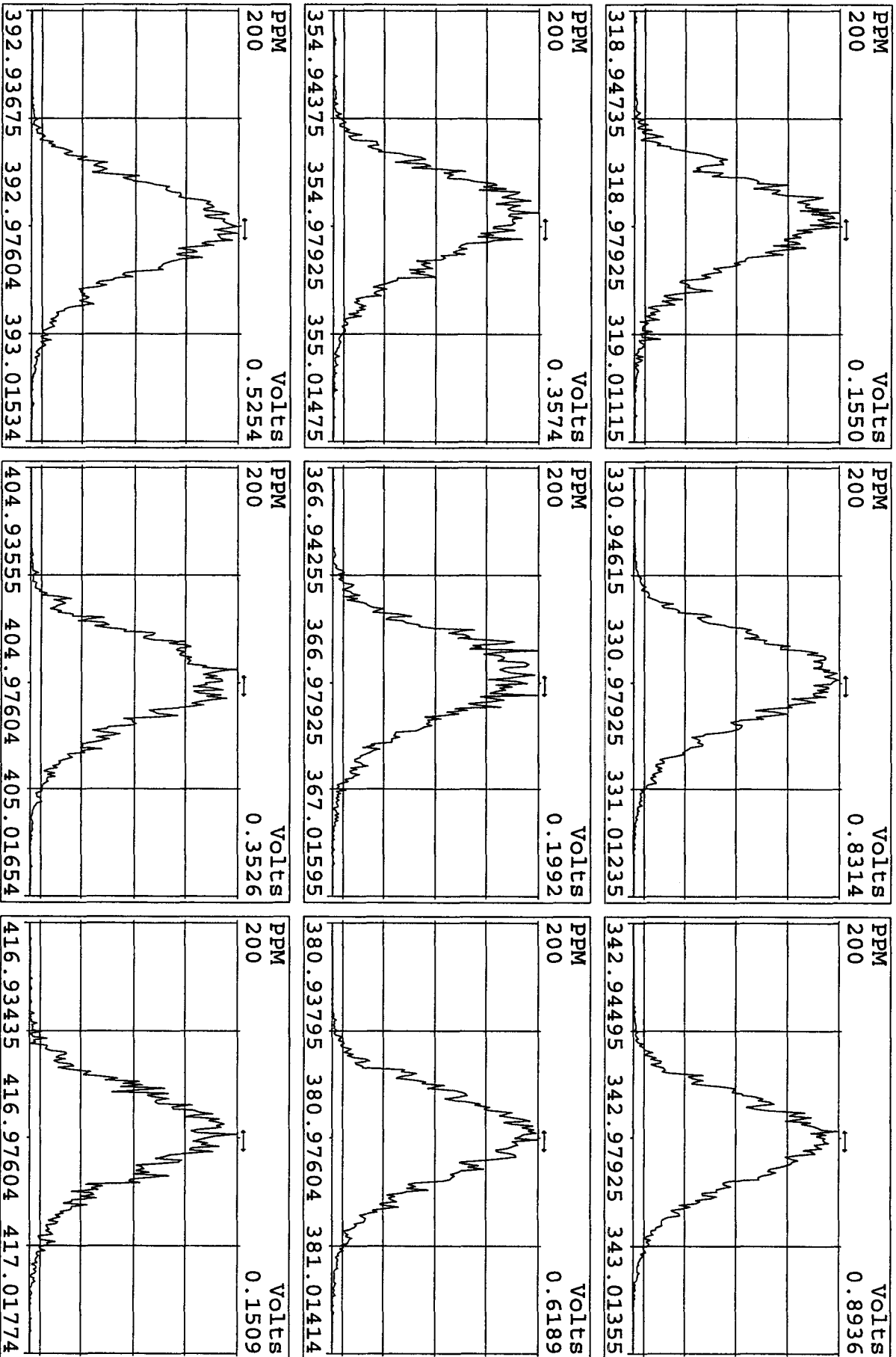
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28OC104D5	5	L8RK4-1-AC	F0J140526-1LCS))	20	8290/SOLID	91	10.00000	g
28OC104D5	6	ST1028A	CS3 10DXN461				1.00000	
28OC104D5	7						0.00000	
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*Logfile v14
10/28/10
KSS*

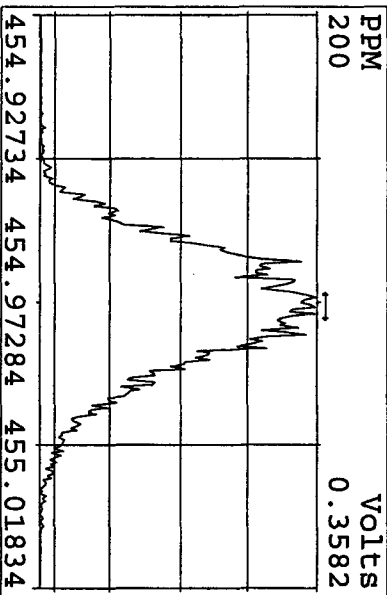
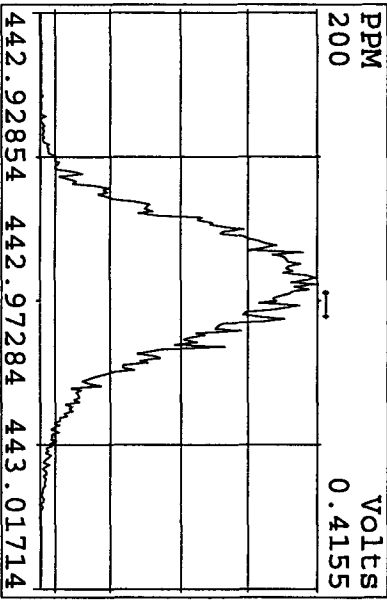
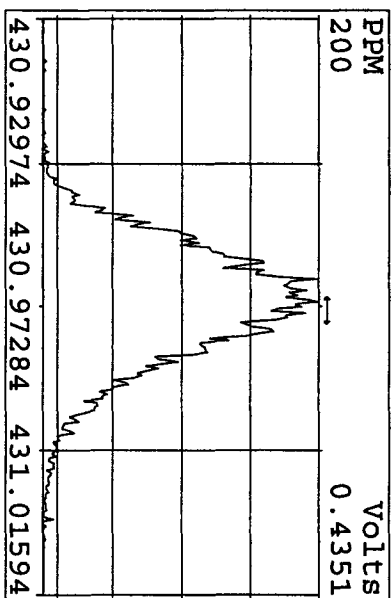
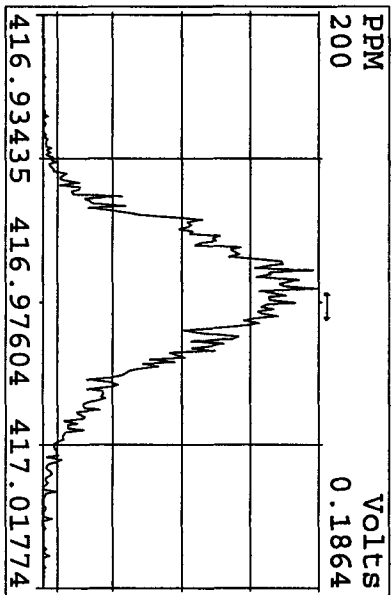
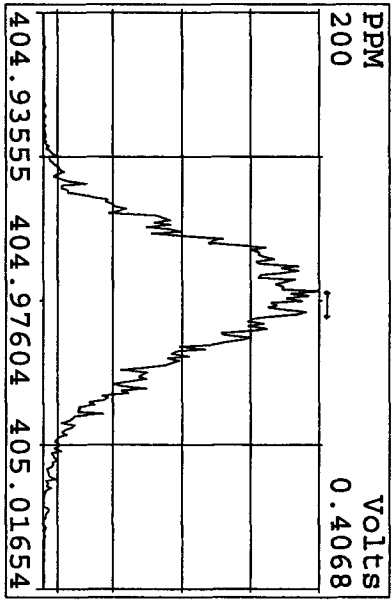
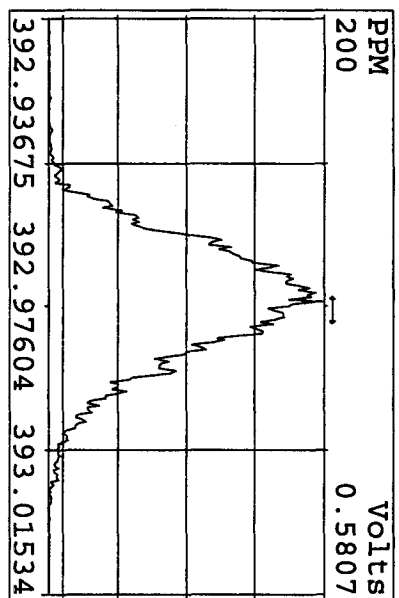
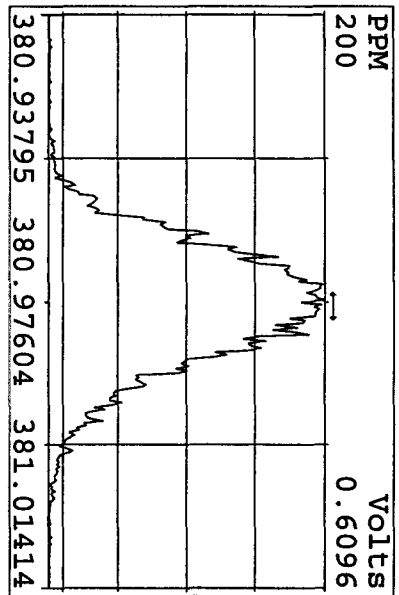
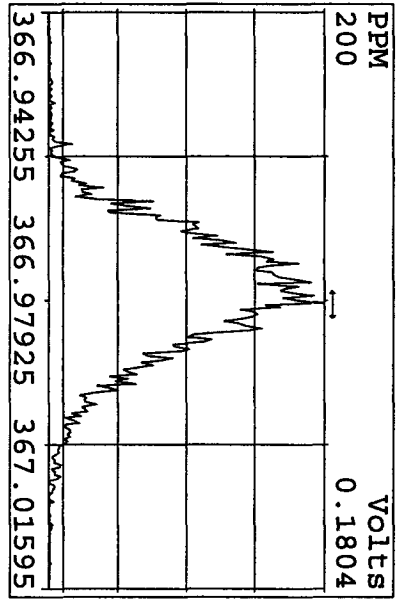
Peak Locate Examination: 28-OCT-2010:09:34 File: 28OC104D5
Experiment: DIOXINRES Function: 1 Reference: PFK



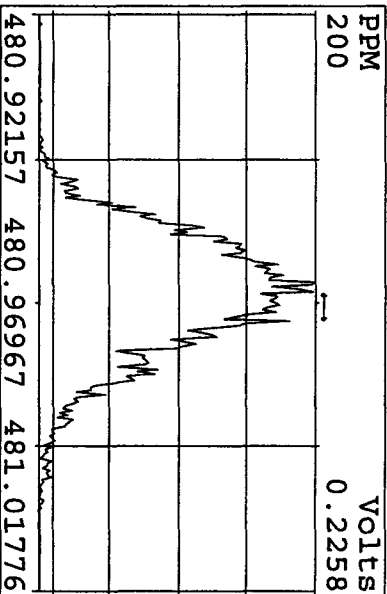
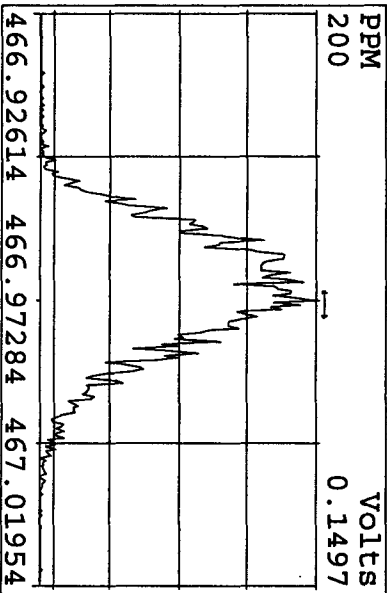
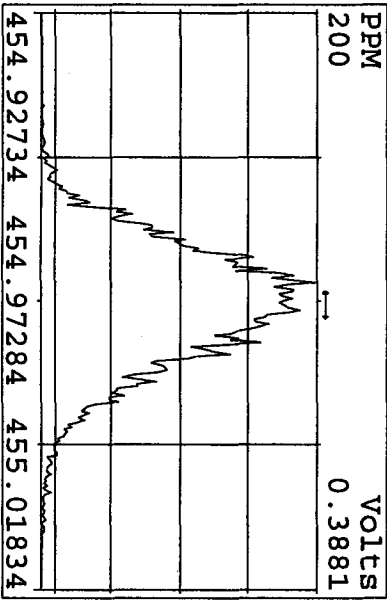
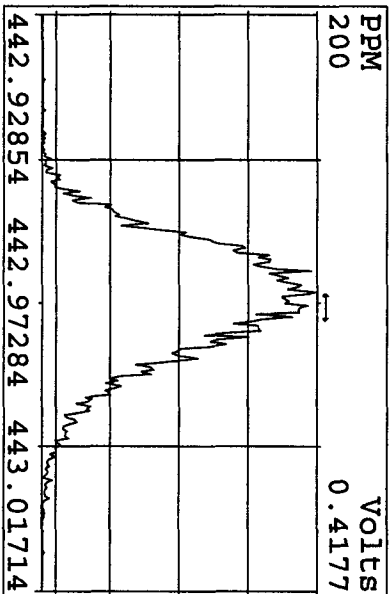
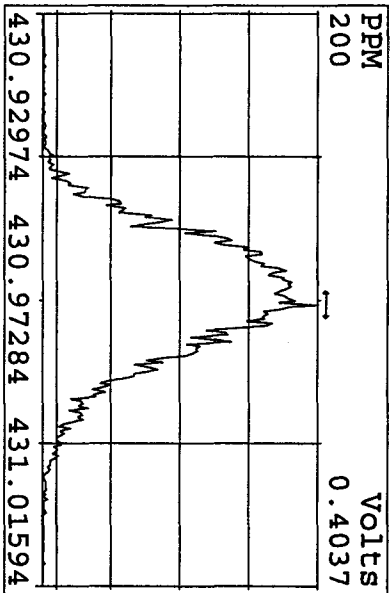
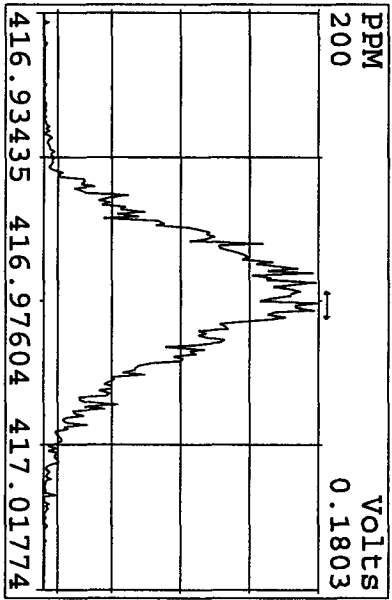
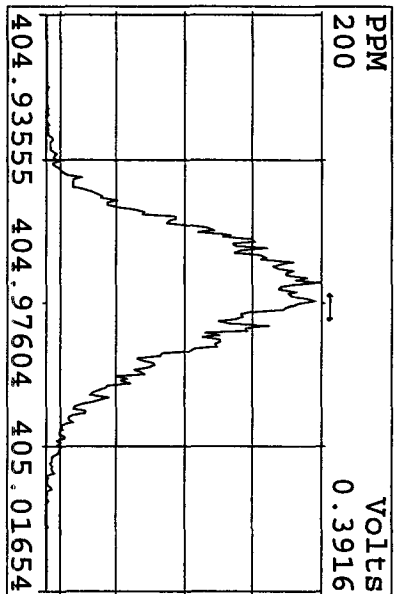
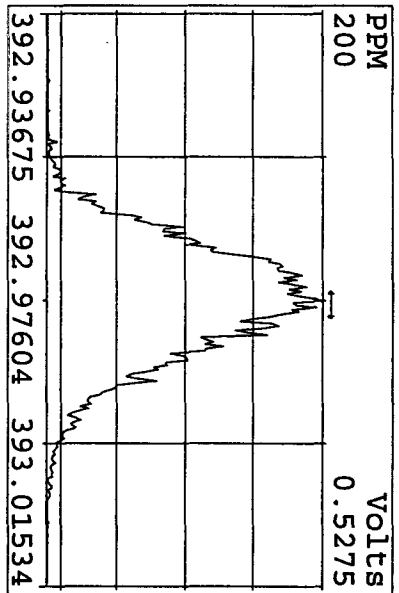
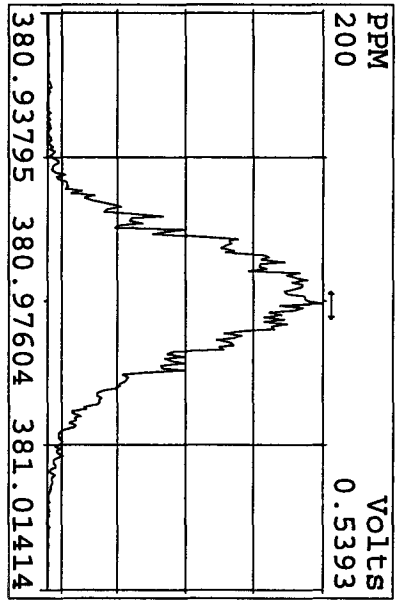
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Experiment: DIOXINRES Function: 2 Reference: PFK



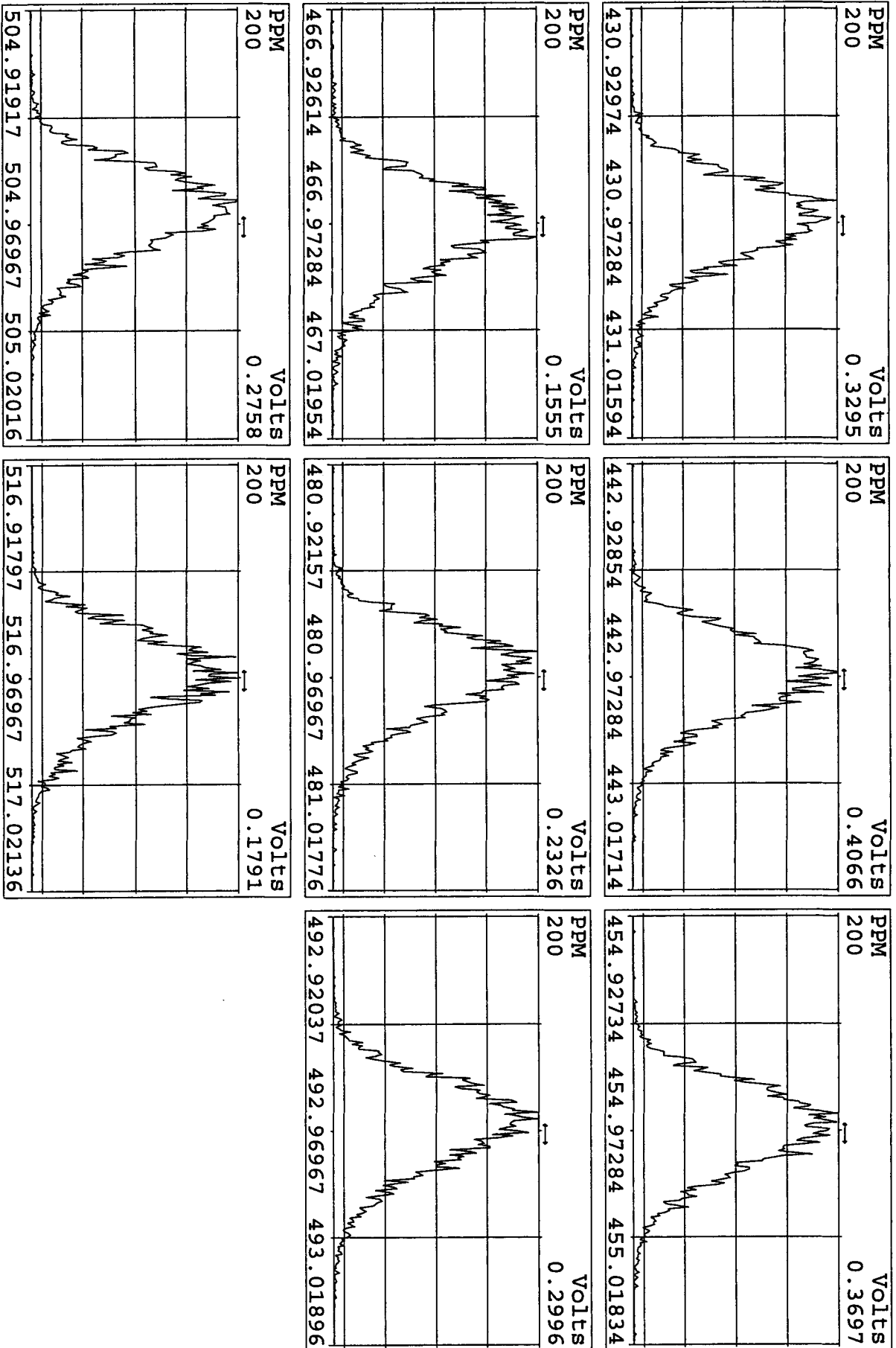
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Experiment: DIOXINRES Function: 3 Reference: PFK



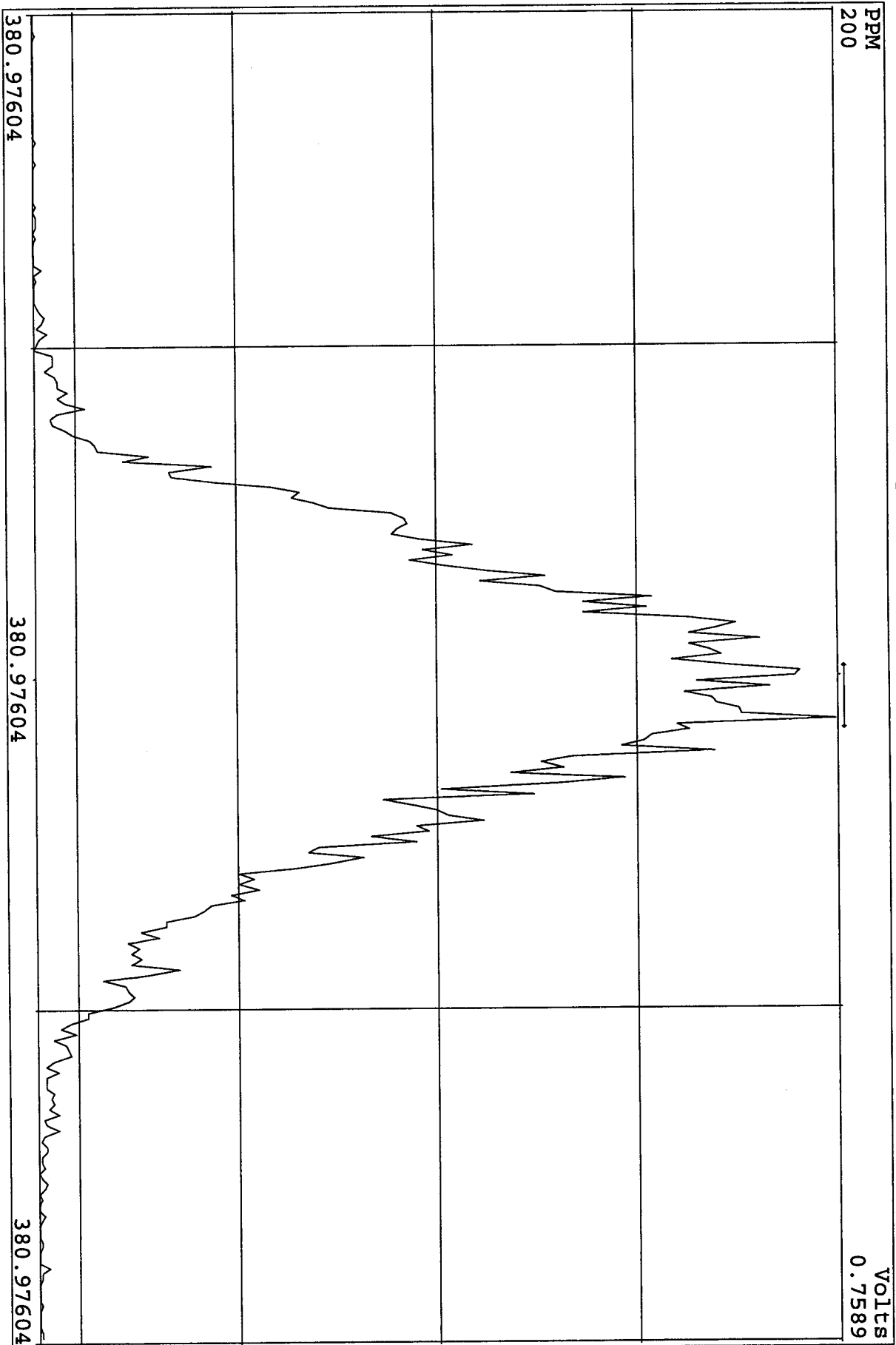
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 Experiment:DIOXINRES Function:4 Reference:PFK



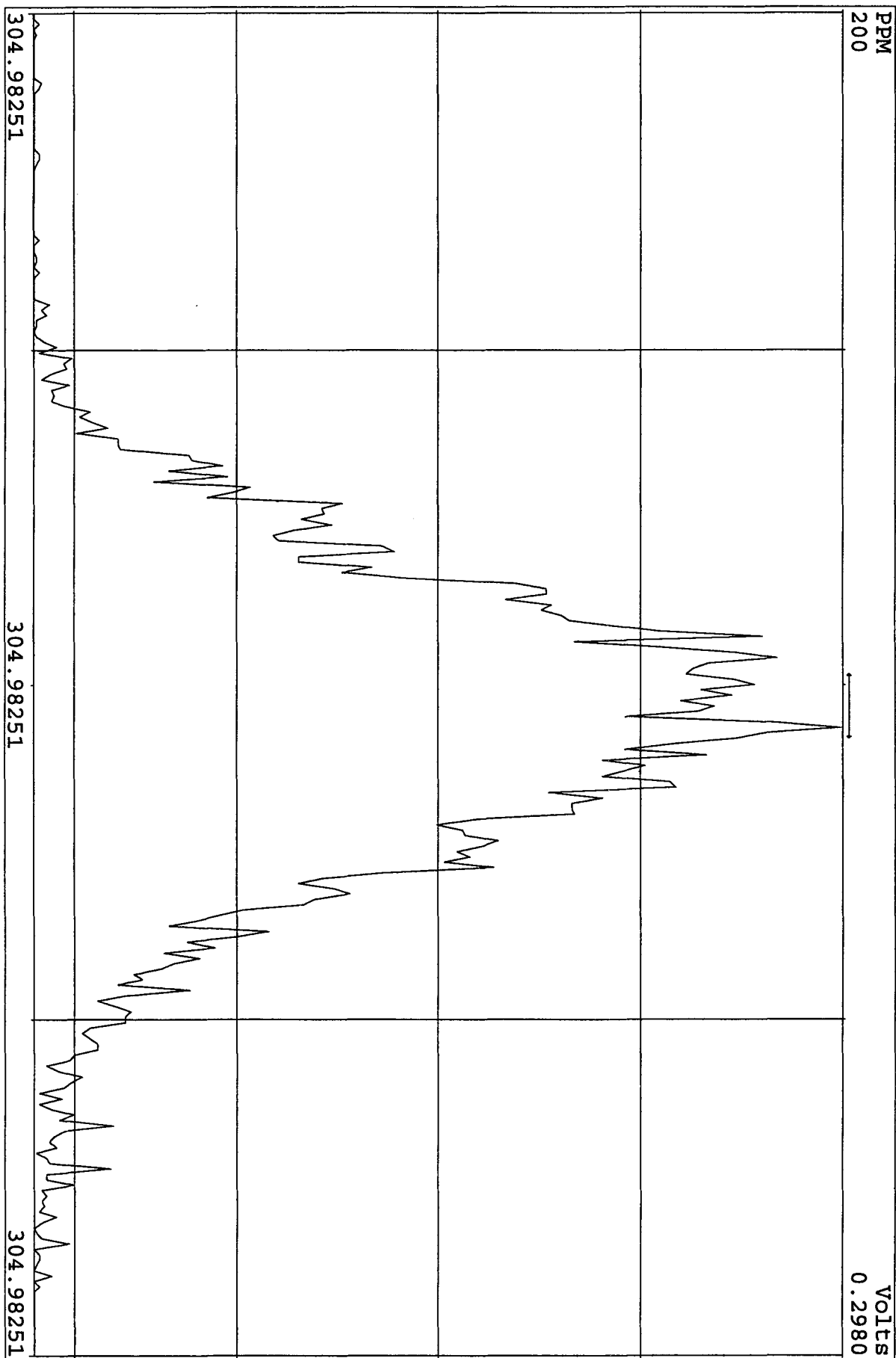
Peak Locate Examination: 28-OCT-2010:09:36 File: 28OC104D5
 Experiment: DIOXINRES Function: 5 Reference: PFK



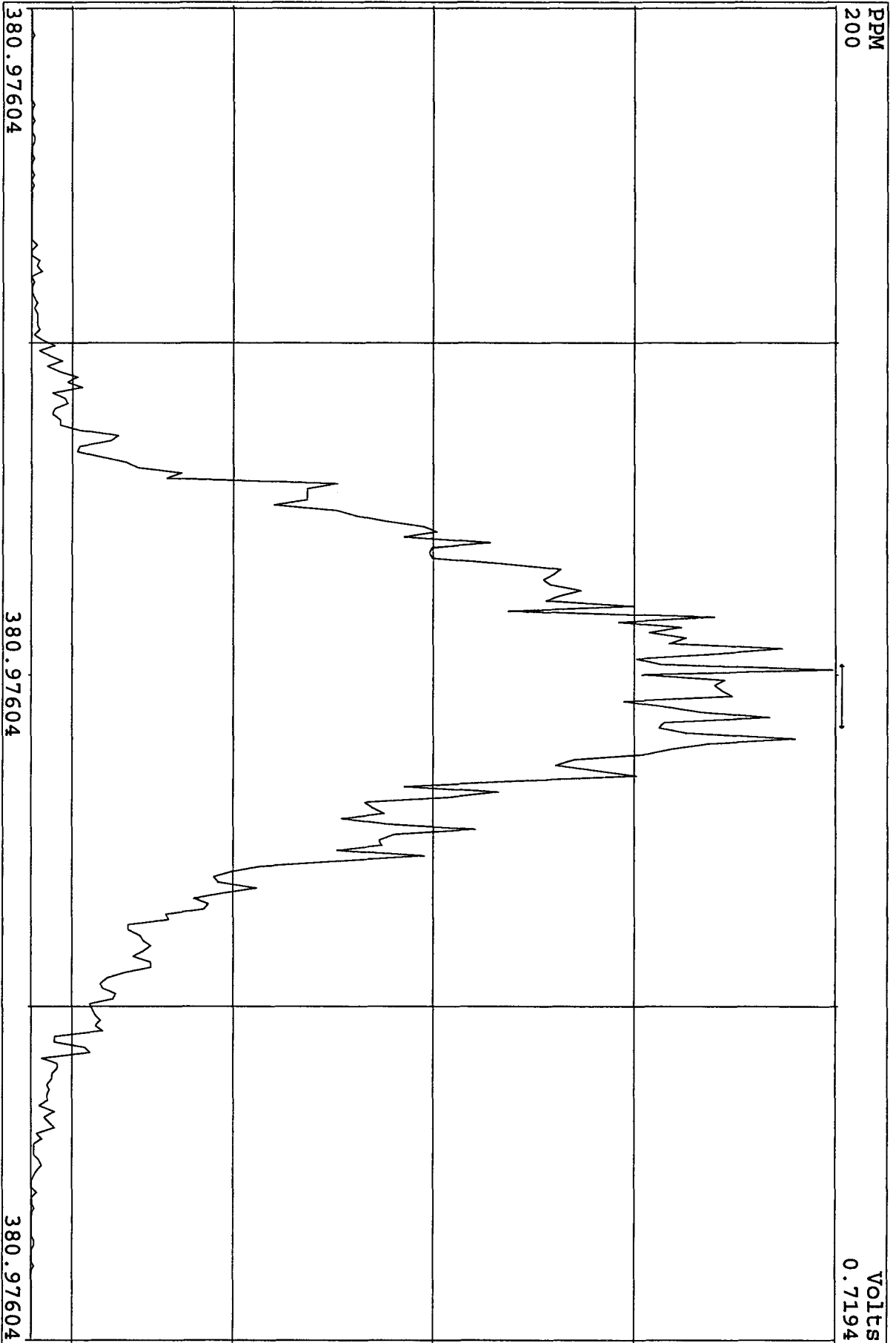
SIRLM Examination: 28-OCT-2010: 13:17 File: 280C104D5
Experiment: DIOXINRES Function: 6



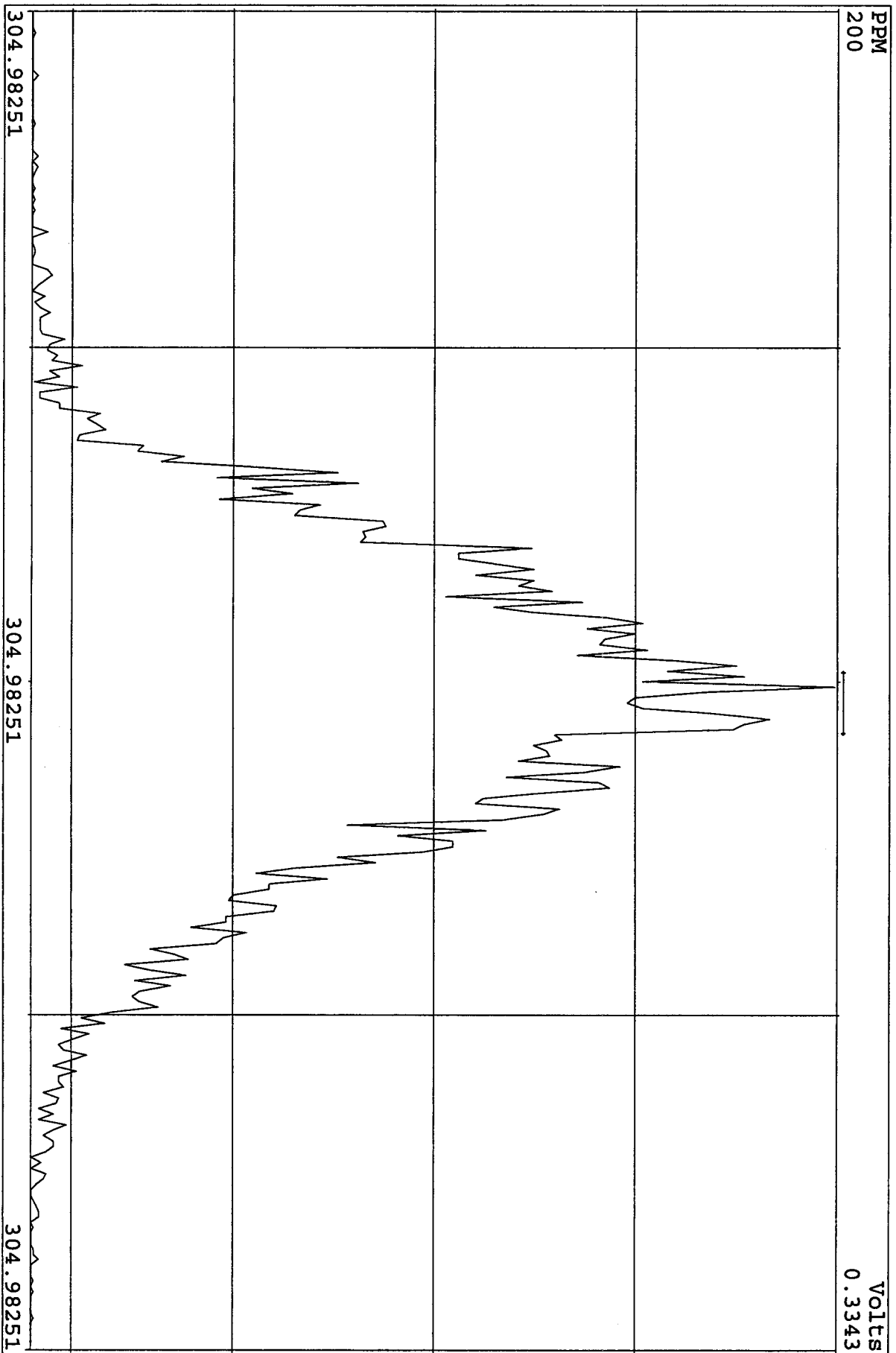
SIRLM Examination: 28-OCT-2010: 13:18 File: 280C104D5
Experiment: DIOXINRES Function: 7



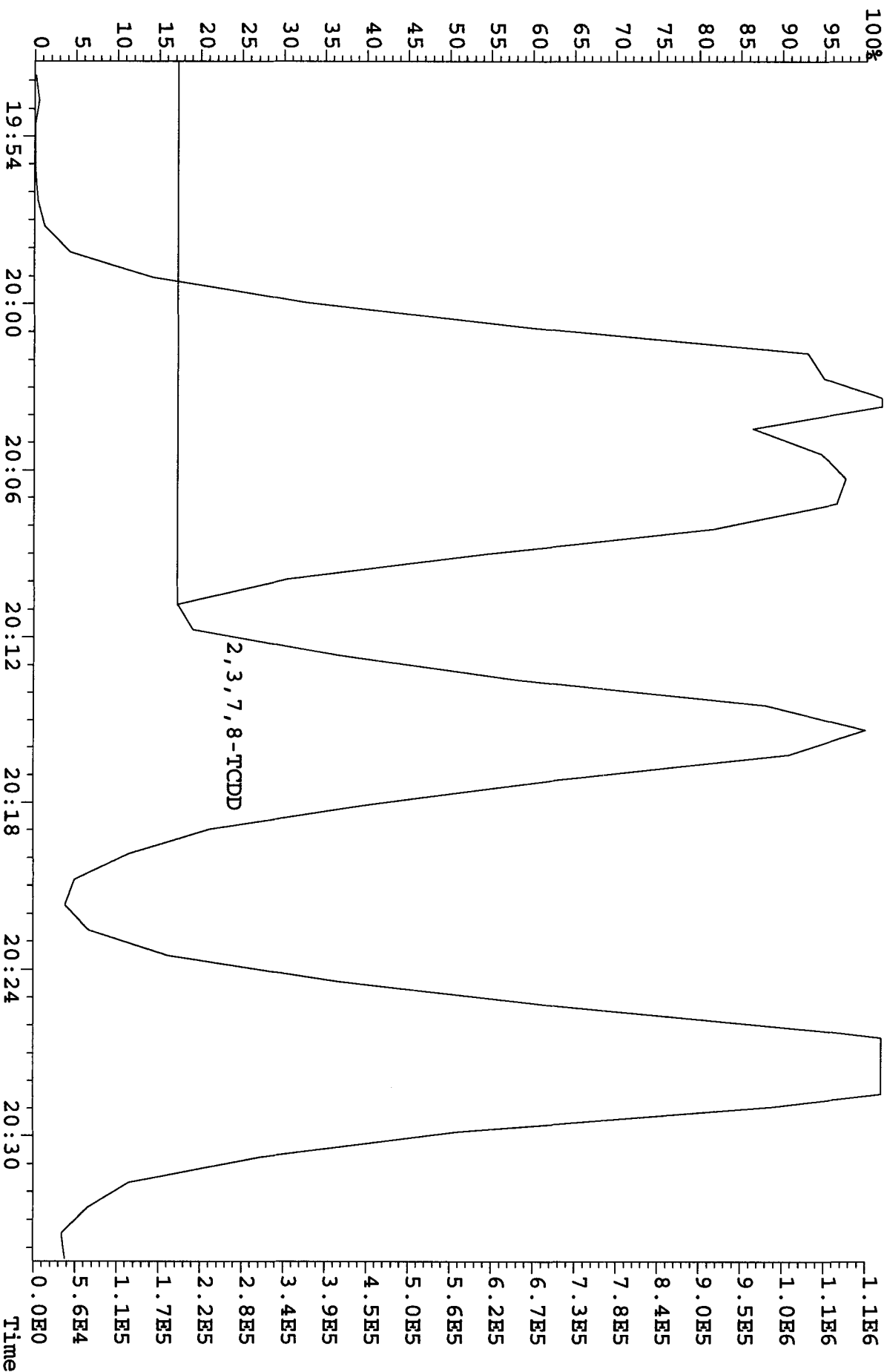
SIRLM Examination: 28-OCT-2010: 14:02 File: 280C104D5
Experiment: DIOXINRES Function: 6



SIRLM Examination: 28-OCT-2010:14:03 File: 28OC104D5
Experiment: DIOXINRES Function: 7



File: 280C104D5 #1-530 Acq: 28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text: CP1028 : DB-5 CPSM 3732-10 Exp: DIOXINRES
 319.8965 BSUB(128,15,-3.0)



Run: 280C104D5 Analyte: TO9 Cal: TO90721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336
 ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

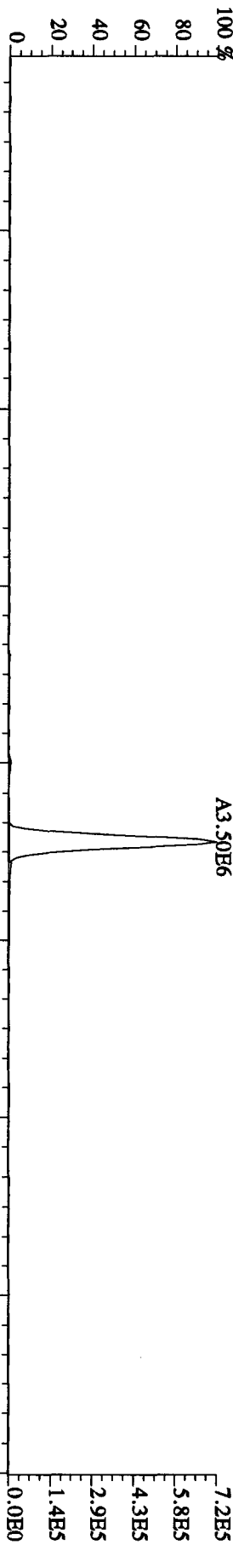
1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

File:280C104D5 #1-530 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE

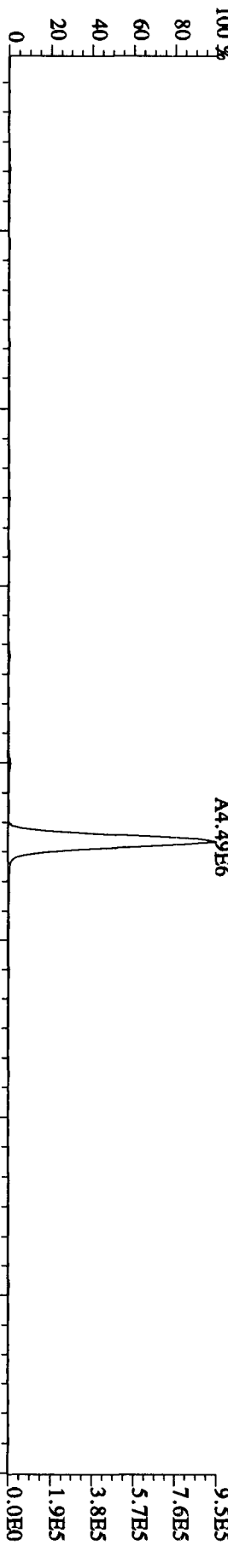
Sample#2 Text:ST1028 :CS3 10DXN461

Exp:DIOXINRES

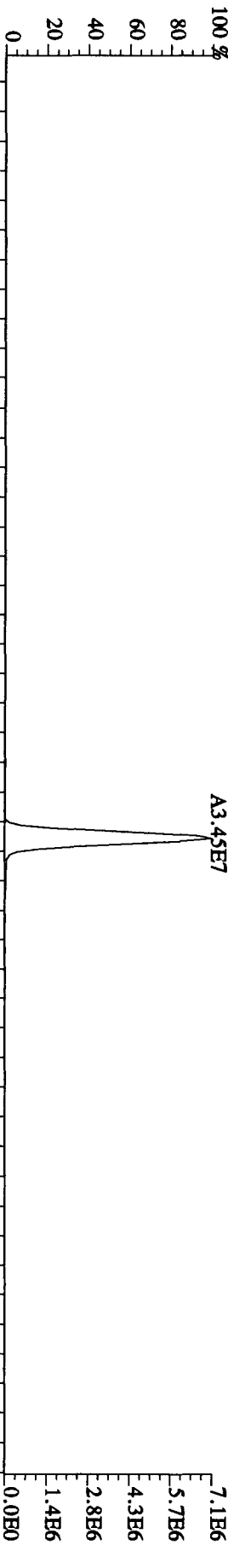
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1356,0,1,00%,F,T)



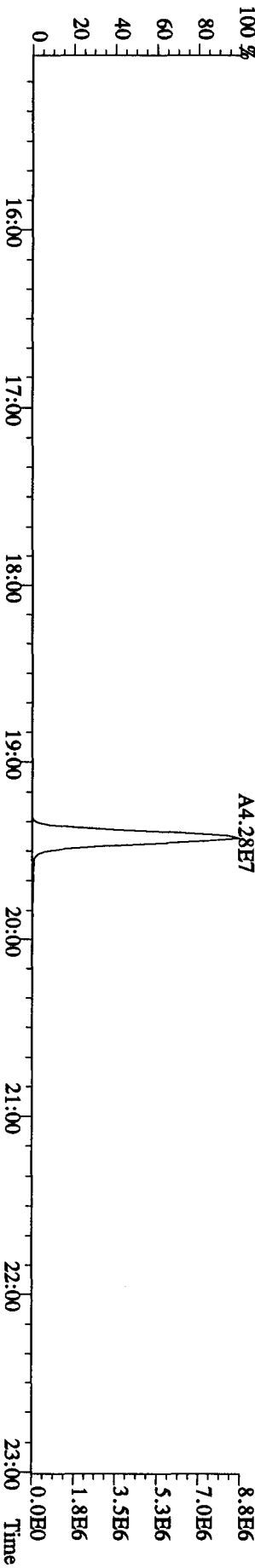
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1652,0,1,00%,F,T)



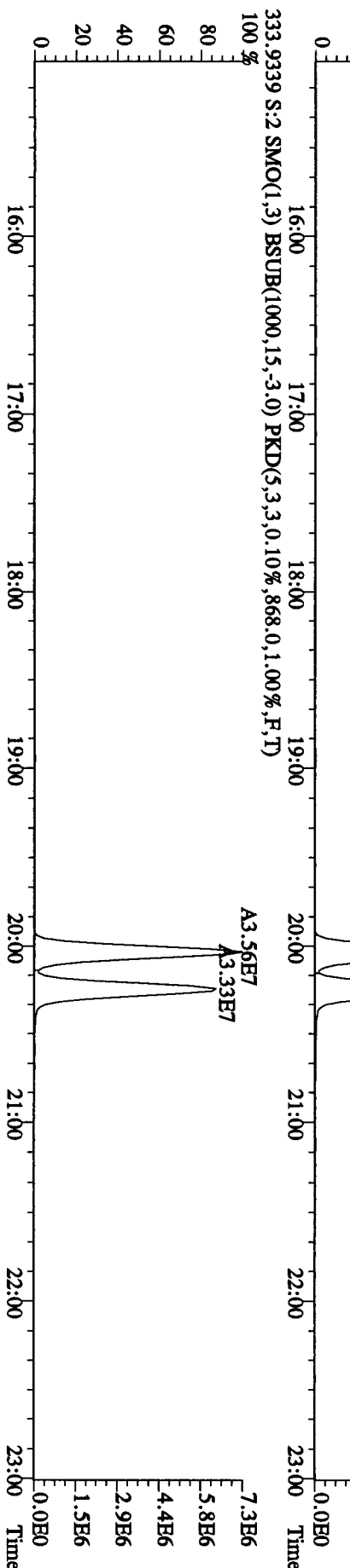
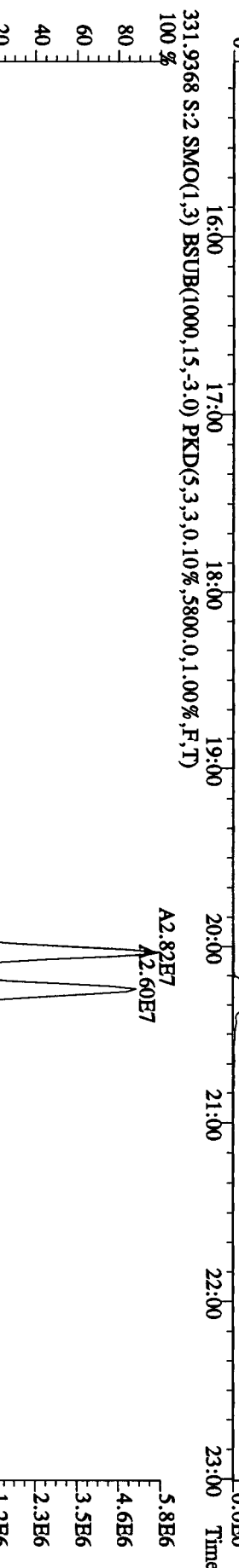
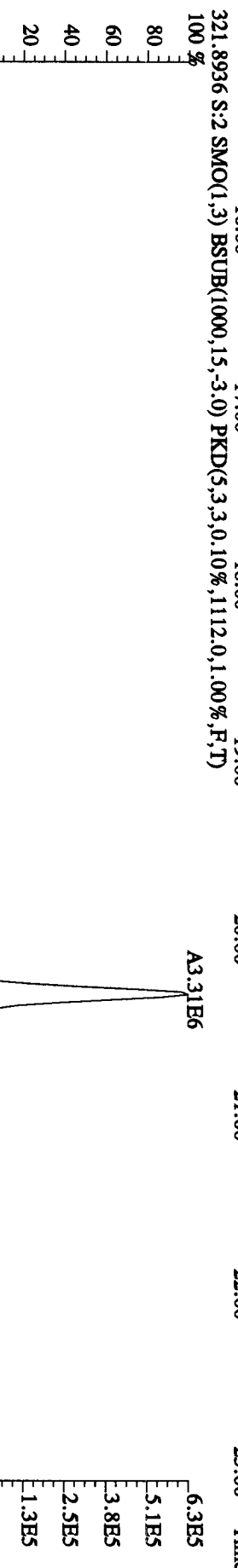
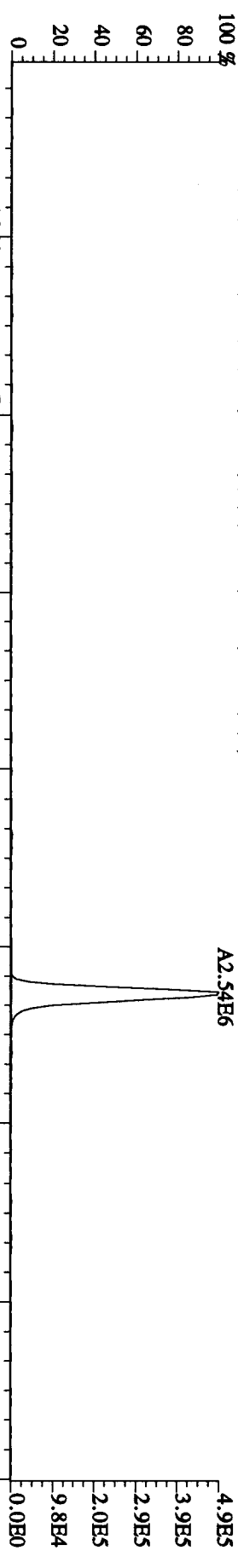
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,172,0,1,00%,F,T)



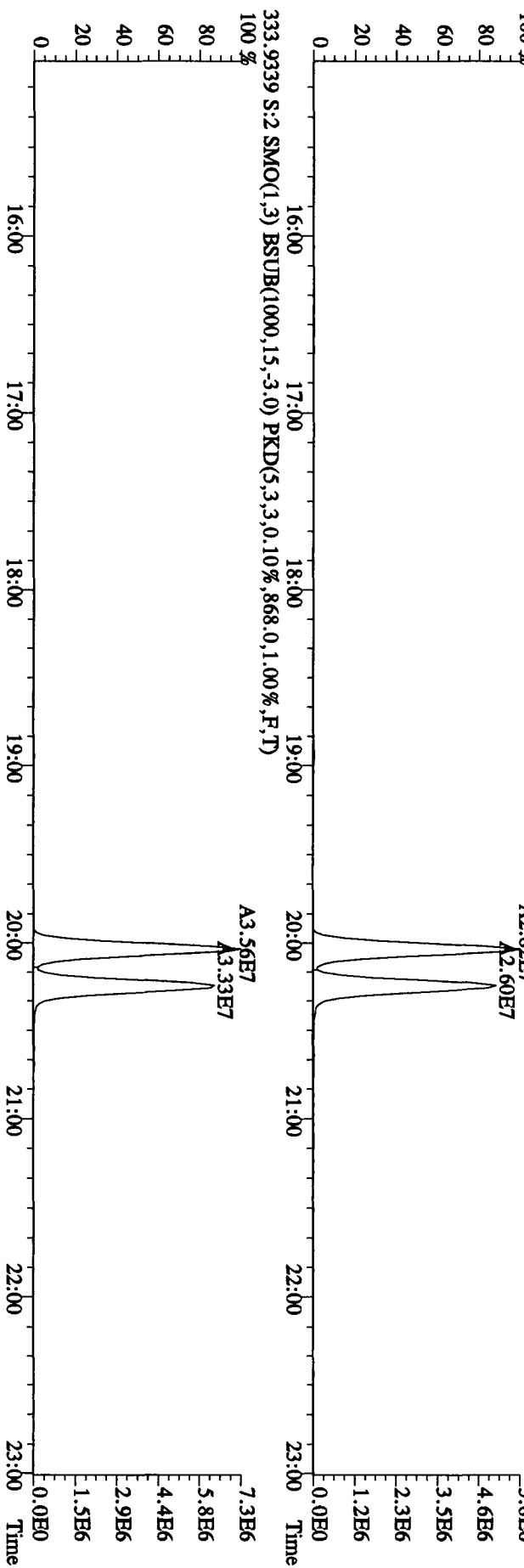
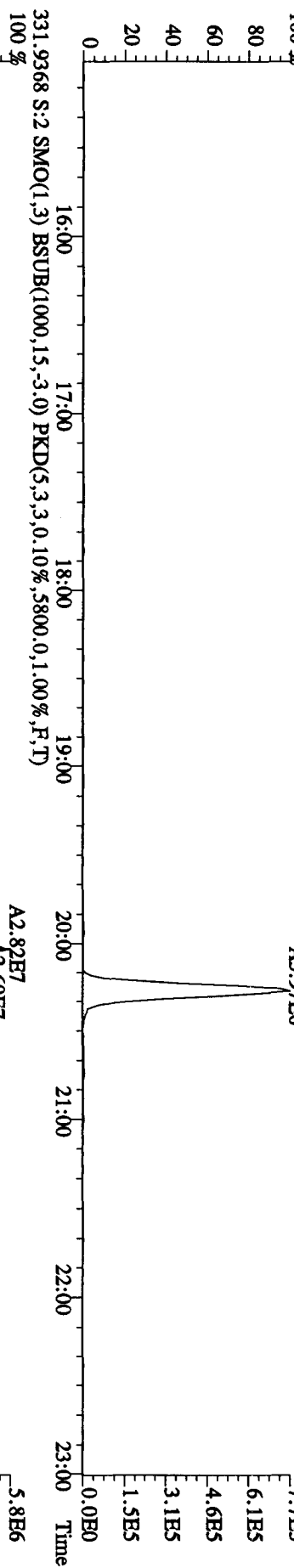
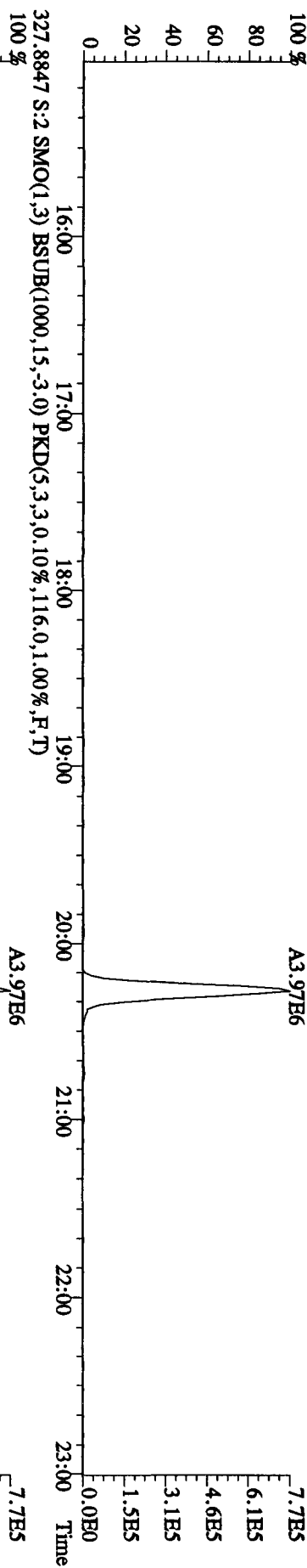
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2456,0,1,00%,F,T)



File:28OC104D5 #1-530 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,804.0,1.00%,F,T) 100 %



File:280C104D5 #1-530 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UtimaE
Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,116.0,1.00%,F,T)
100 %

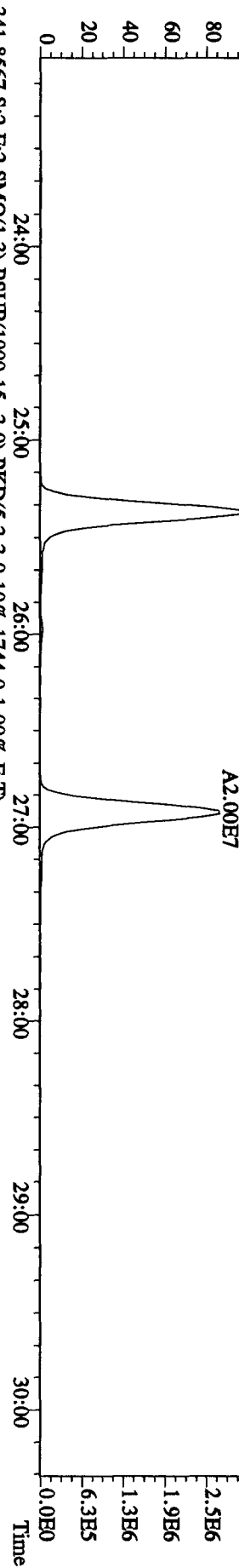


File:28OC104D5 #1-470 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-Ultimate

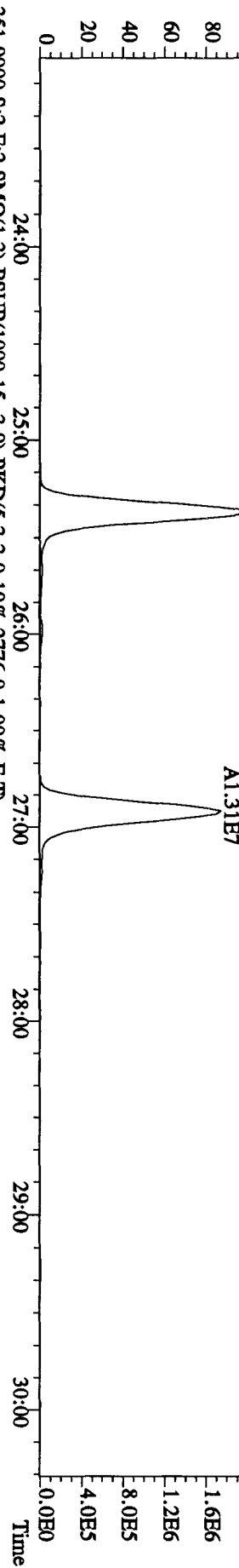
Sample#2 Text:ST1028 :CS3 10DXN461

Exp:DIOXINRES

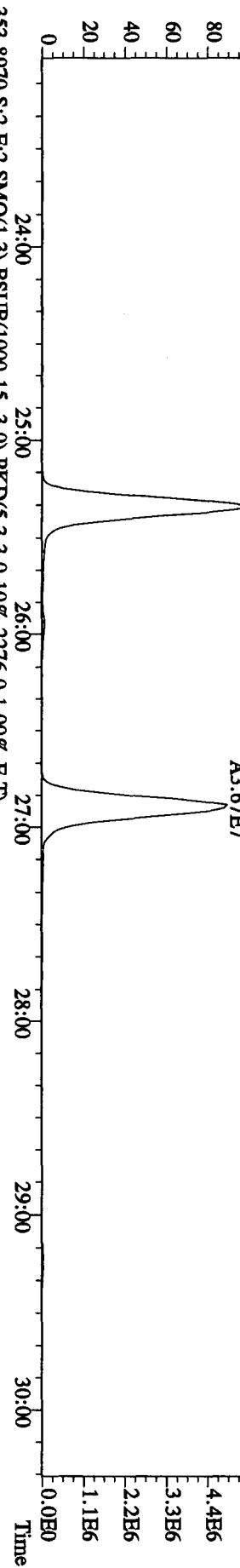
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,1700,0,1.00%,F,T)



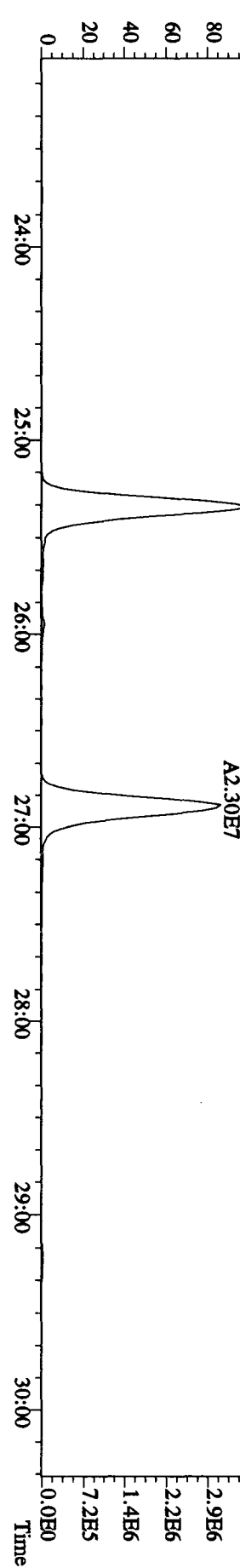
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,1744,0,1.00%,F,T)



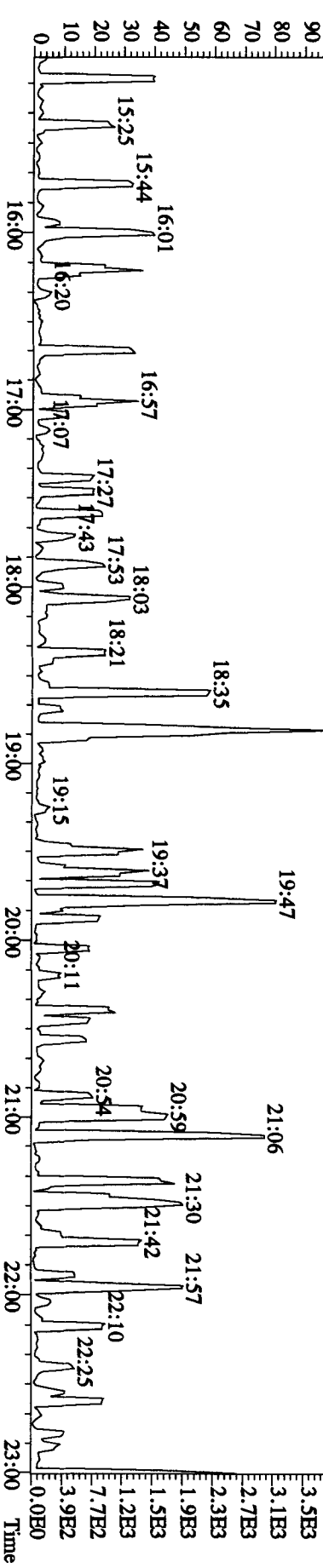
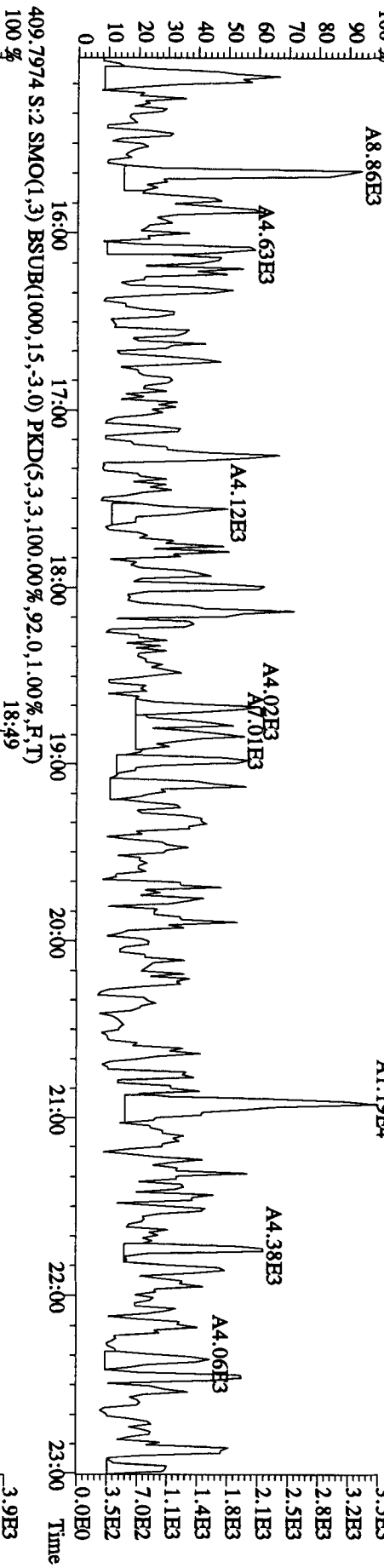
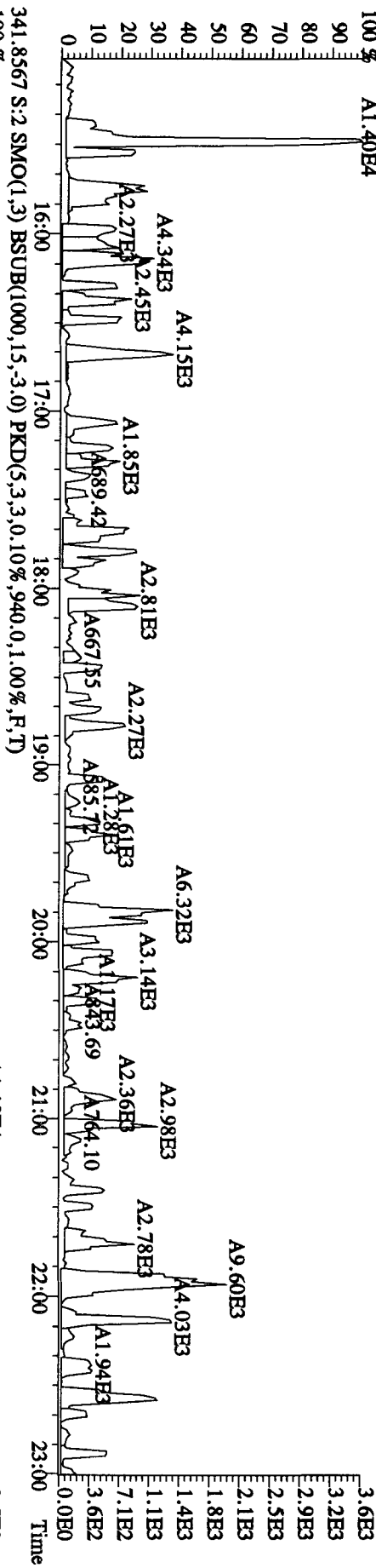
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,2776,0,1.00%,F,T)



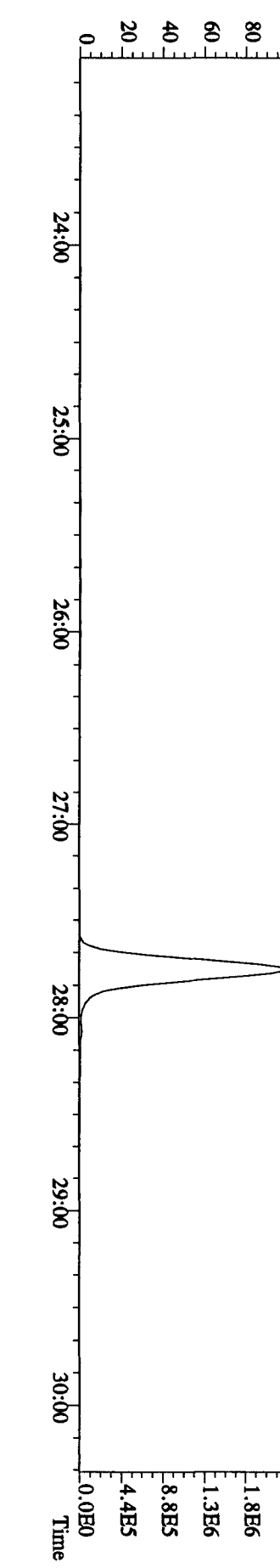
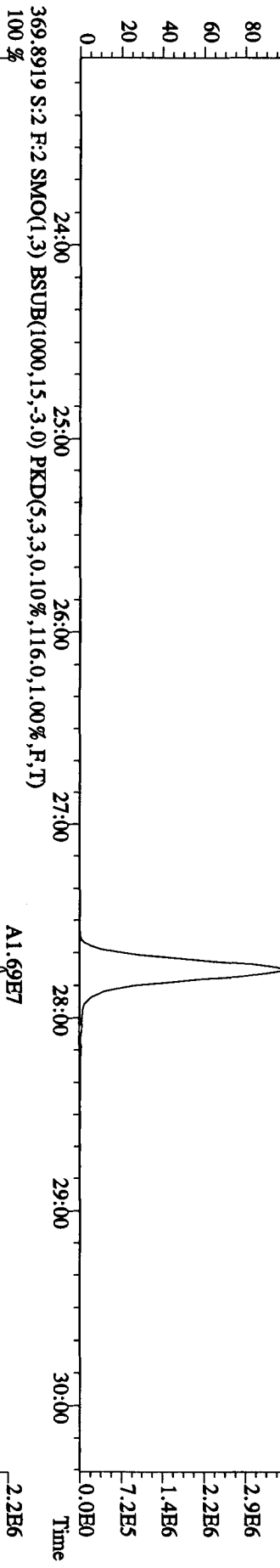
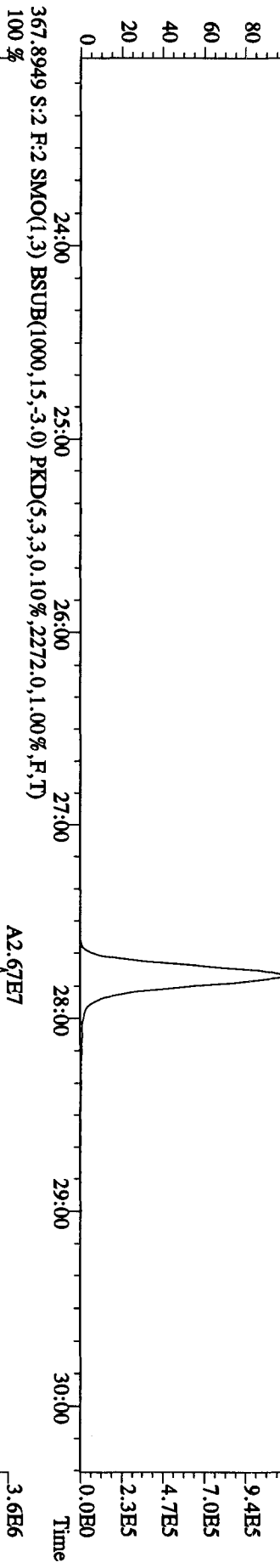
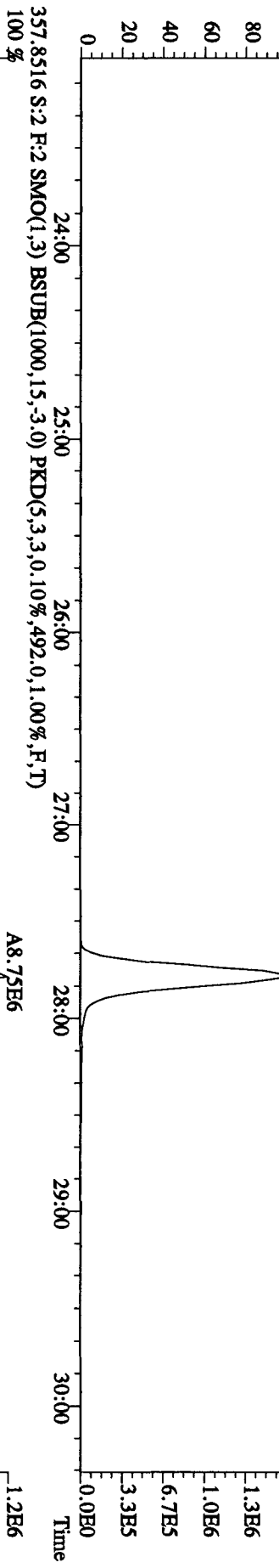
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,2276,0,1.00%,F,T)

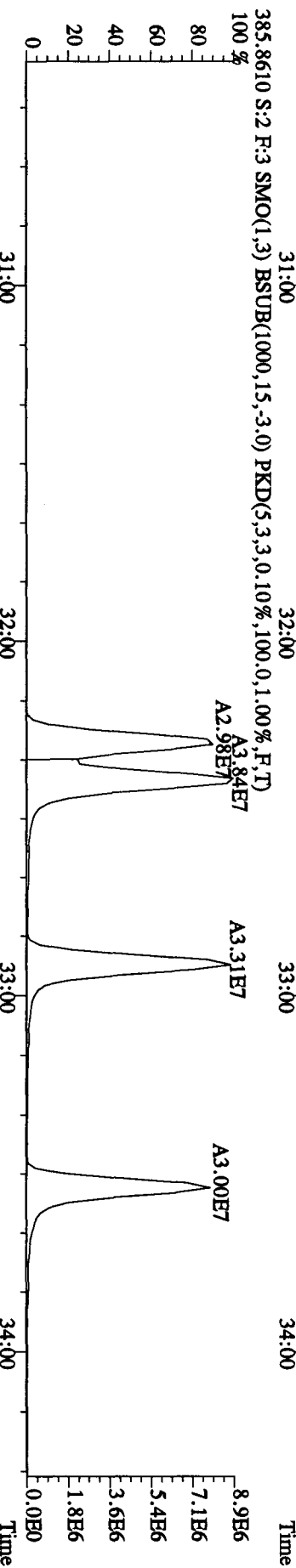
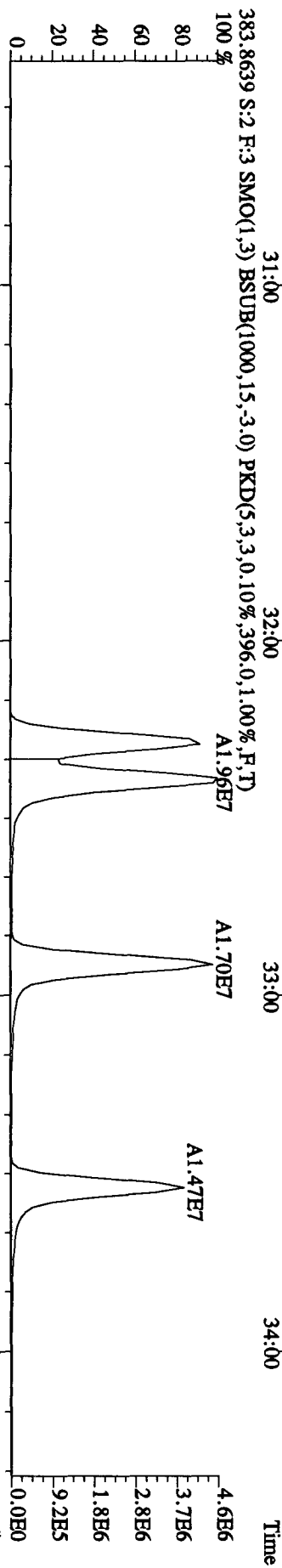
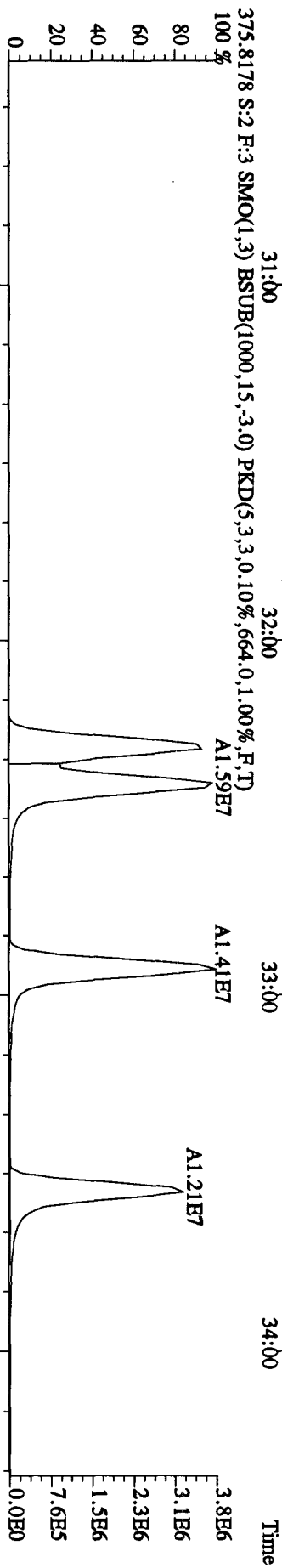
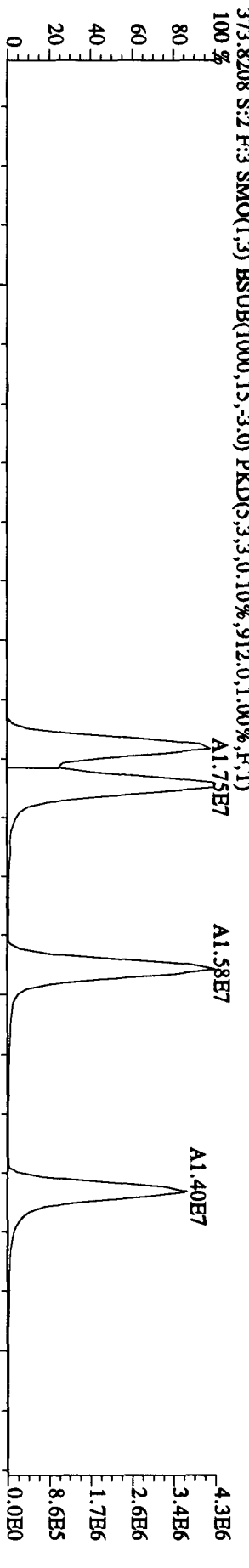


File:28OC104D5 #1-530 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 339.8597 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)
 100% A1.40E4

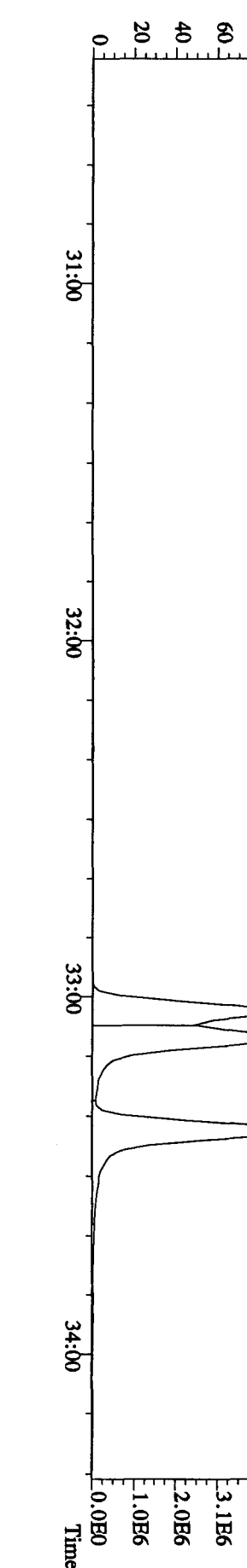
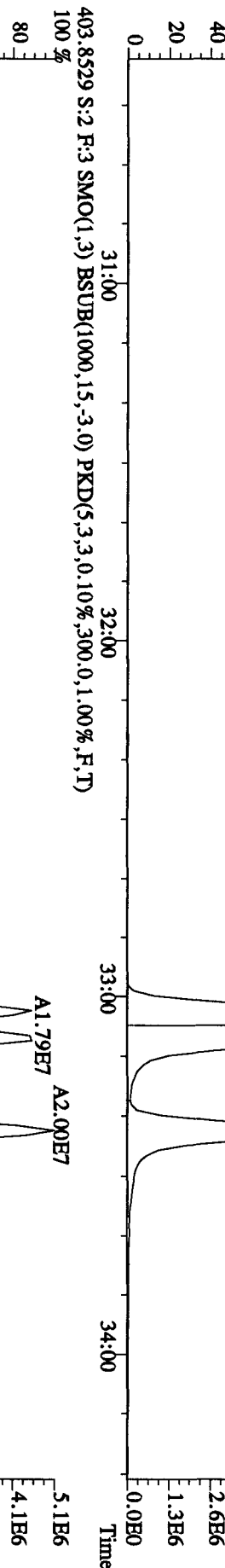
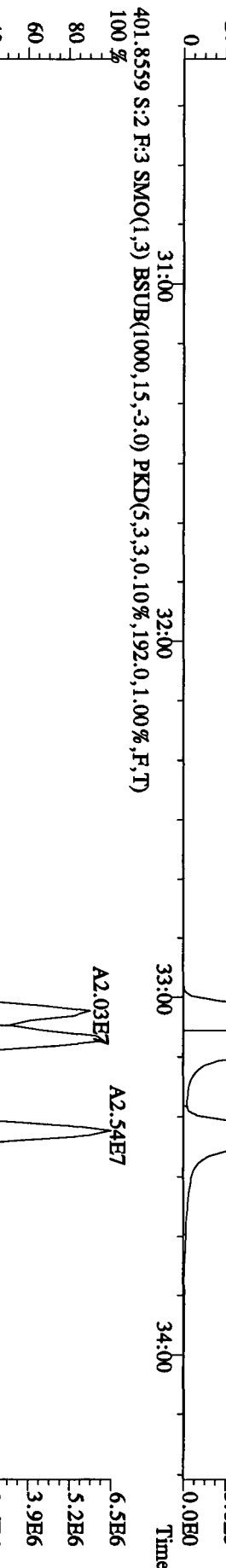
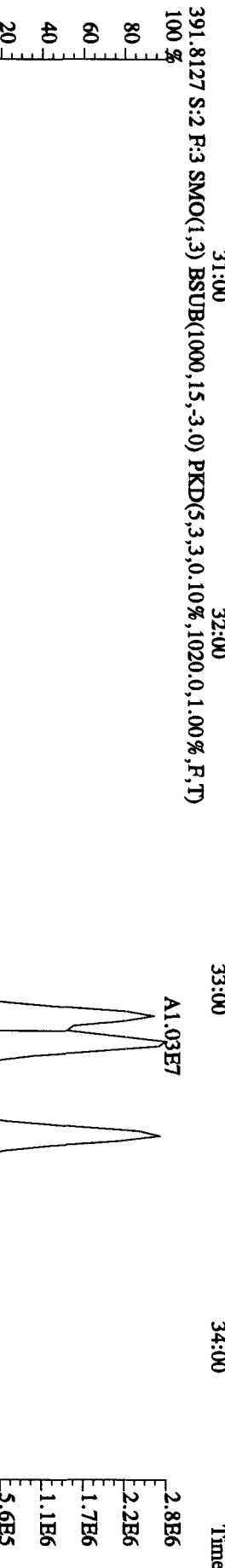
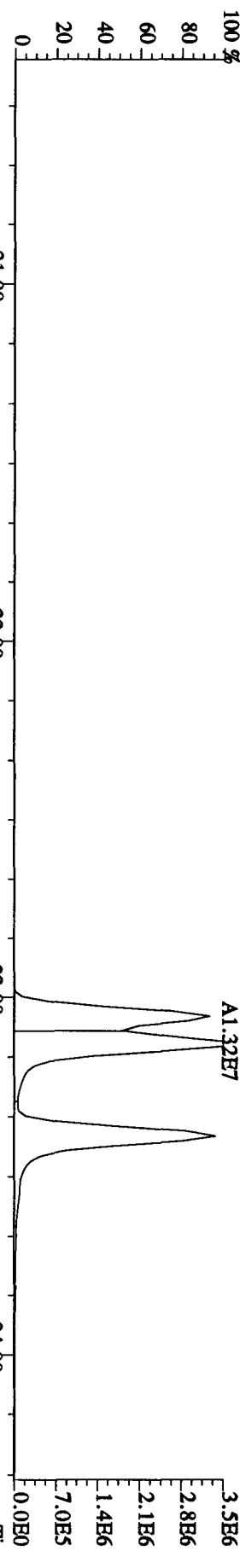


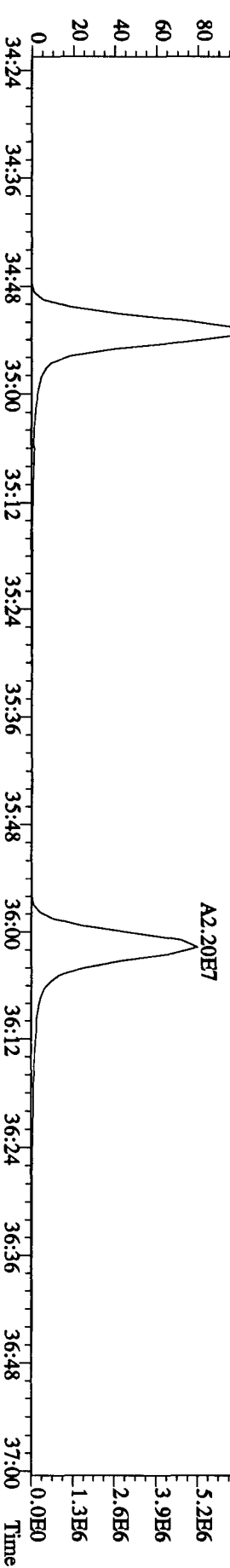
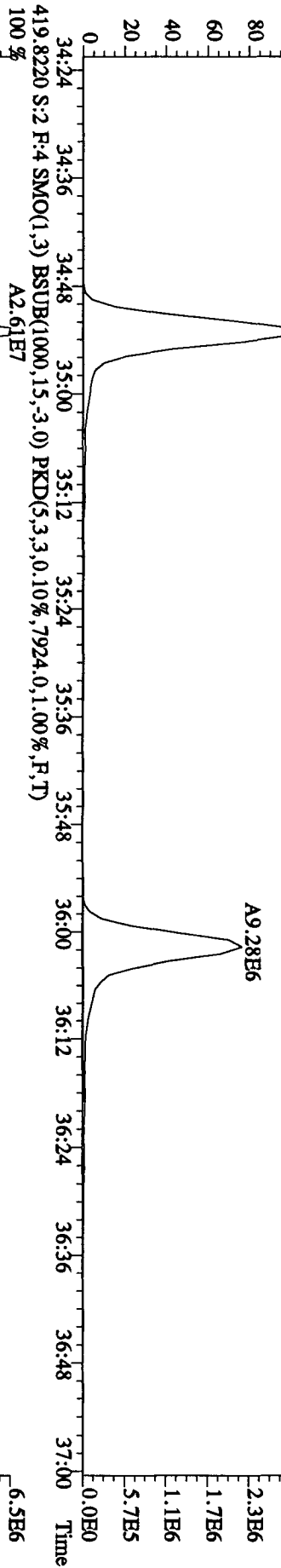
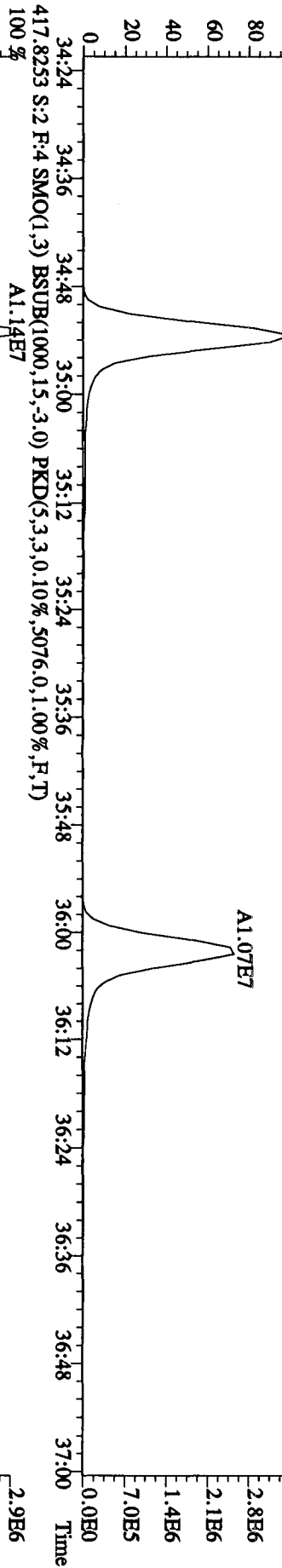
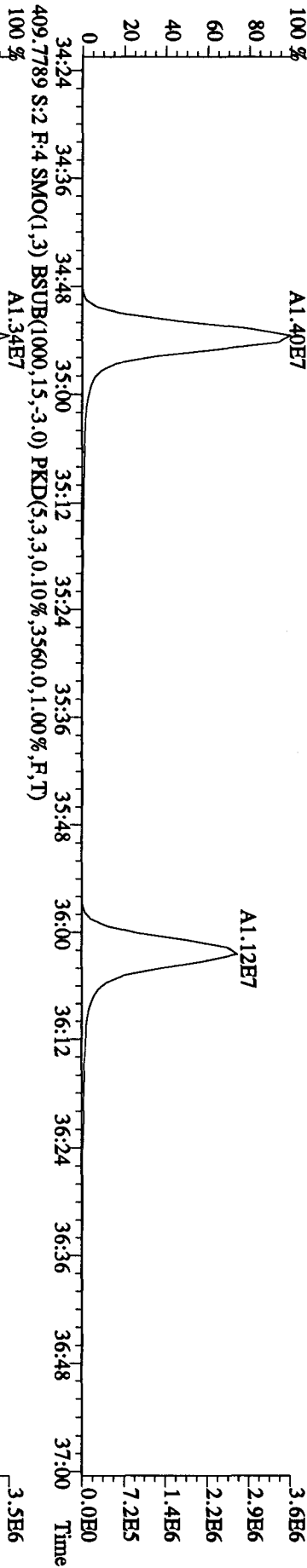
File:28OC104D5 #1-470 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1716.0,1.00%,F,T)
 100 %



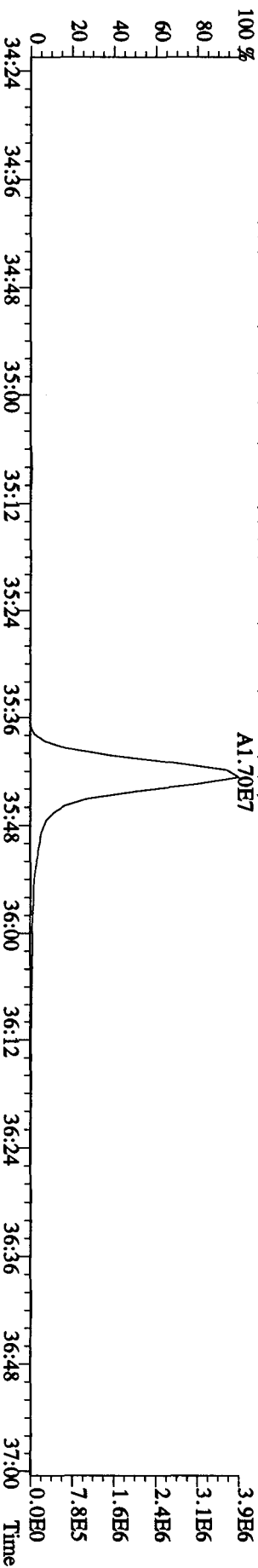
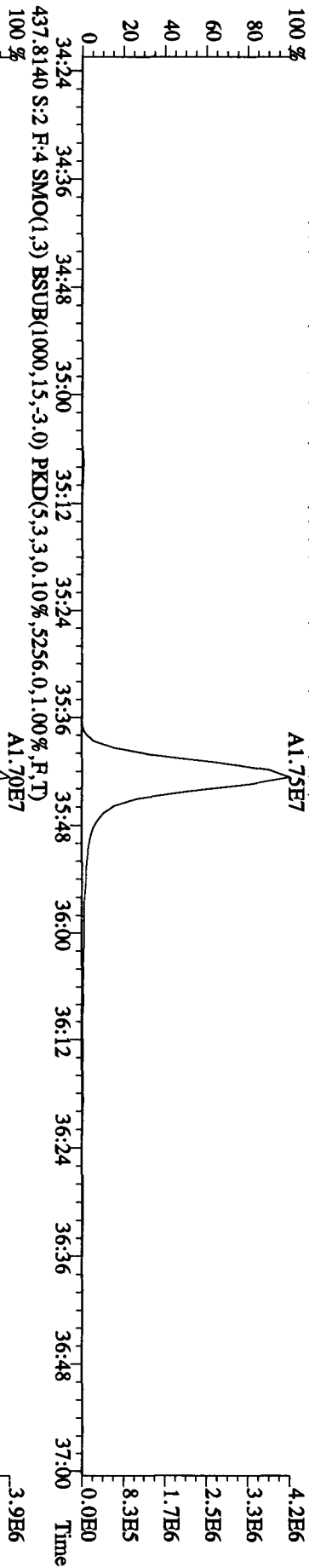
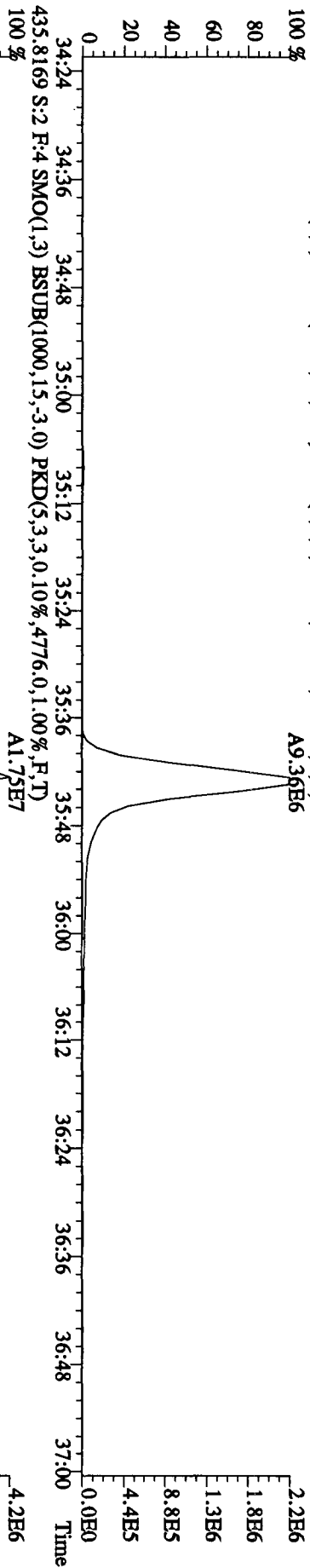
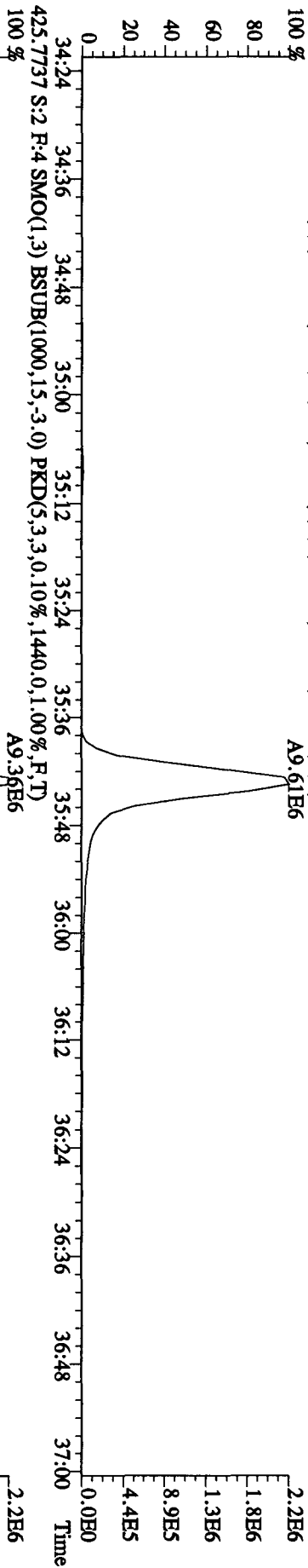


File:28OC104D5 #1-287 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T) 100 %

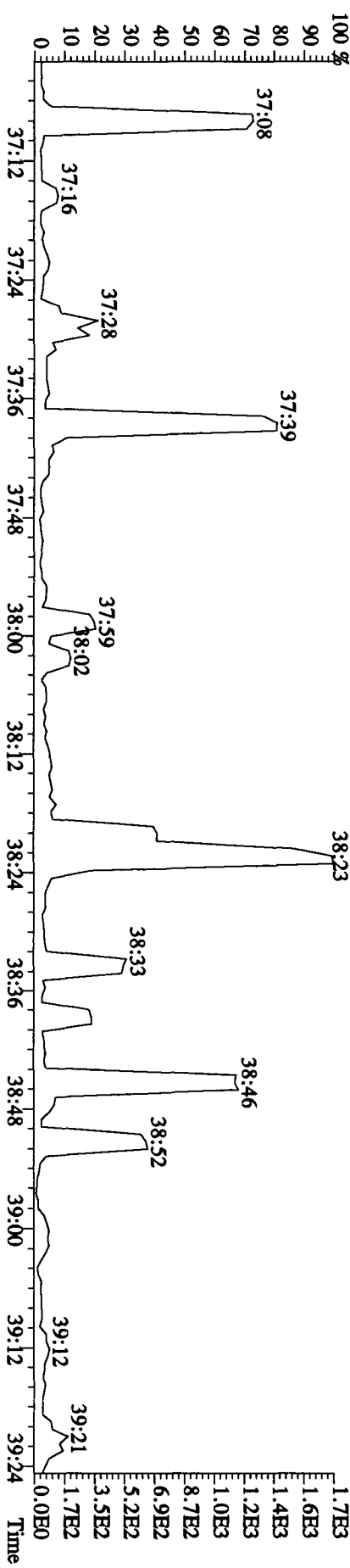
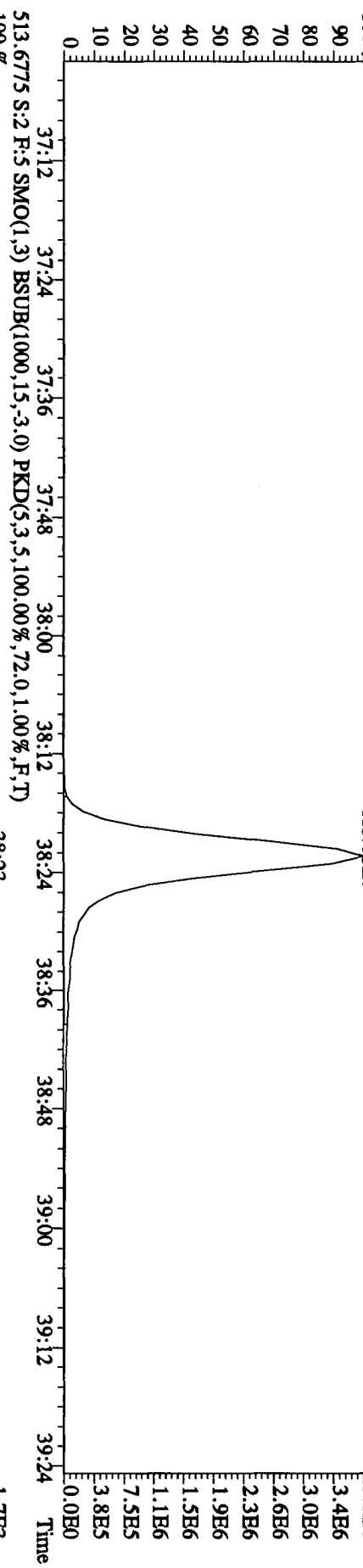
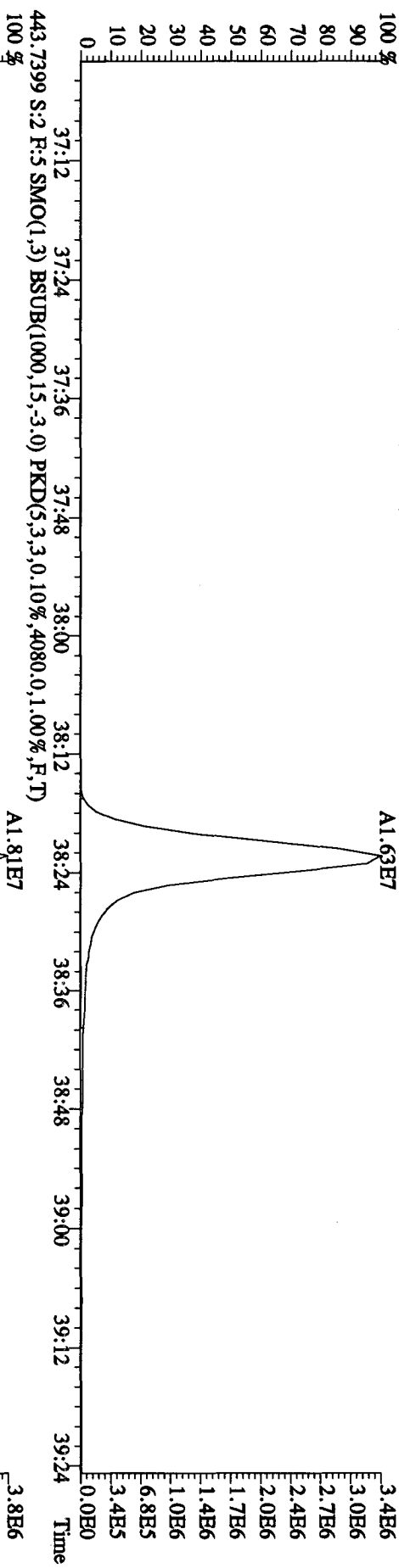




File:280C104D5 #1-200 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINES
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836,0.1,0.0%,F,T)
 100 % A9.61E6



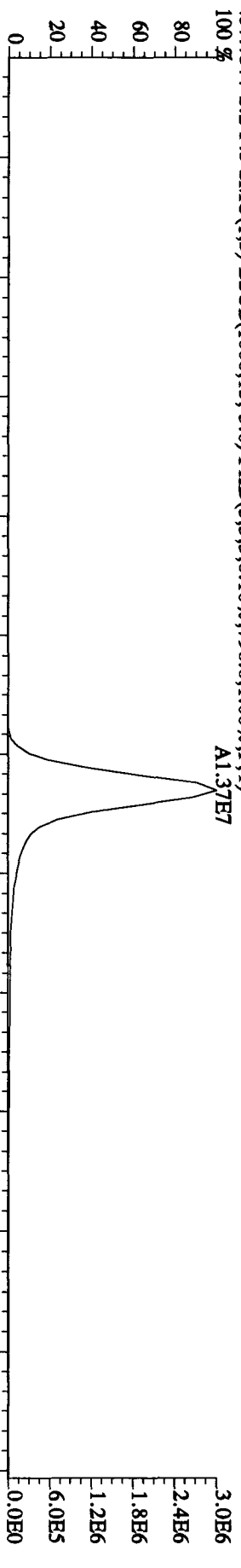
File: 280C104D5 #1-193 Acq: 28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: ST1028 : CS3 10DDXN461 Exp: DIOXINRES
 441.7428 S: 2 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,464.0,1.00%,F,T)



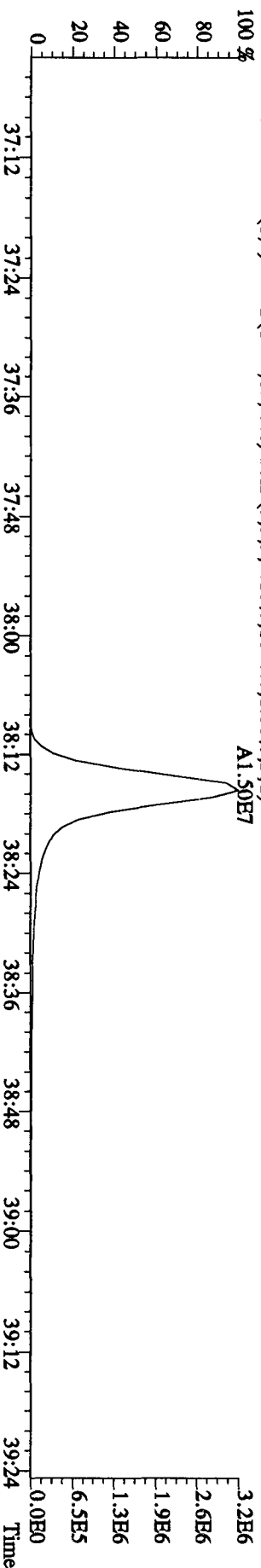
File:280C104D5 #1-193 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES

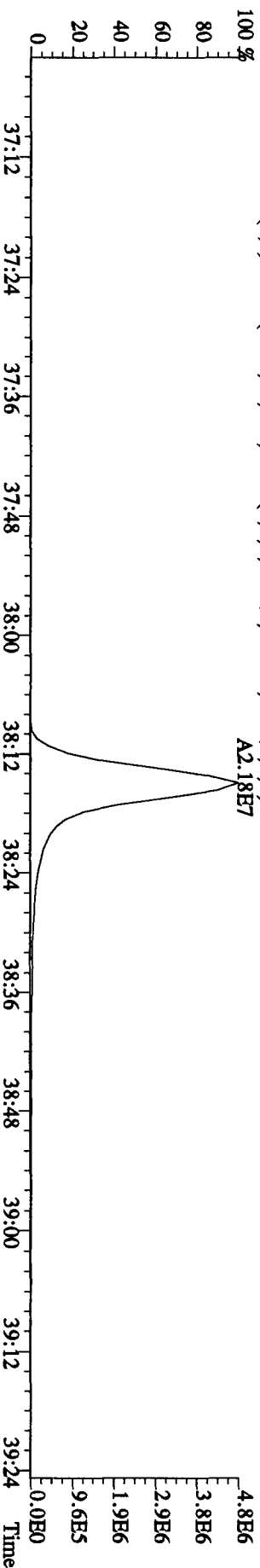
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,796,0,1.00%,F,T)



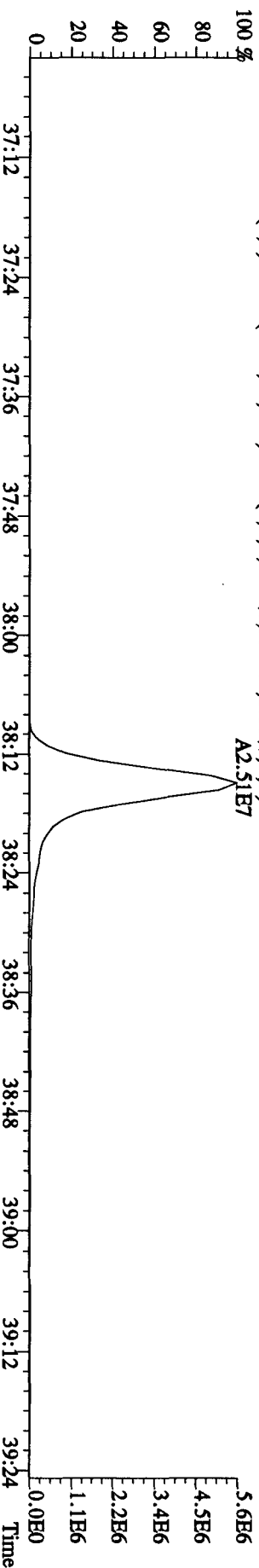
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1808,0,1.00%,F,T)

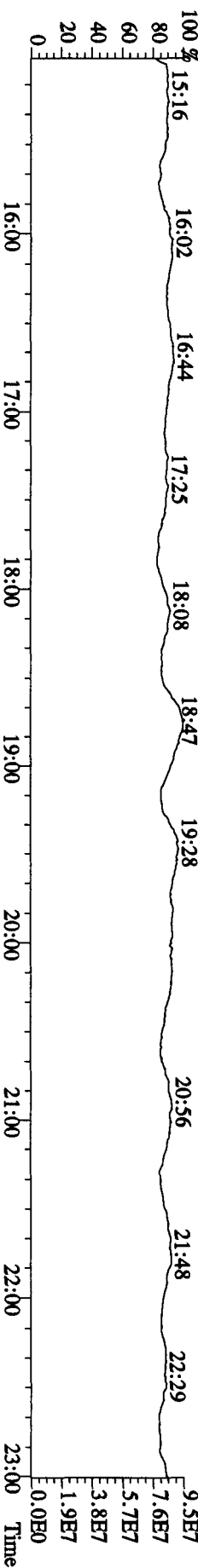
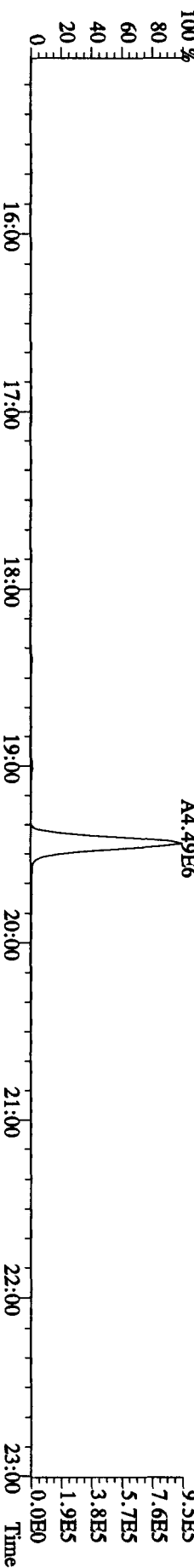
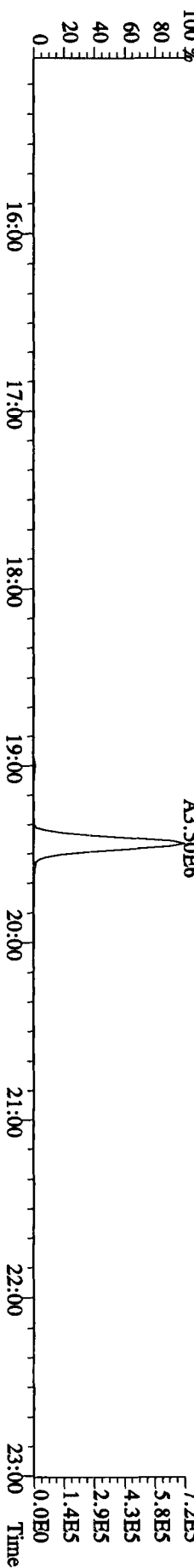
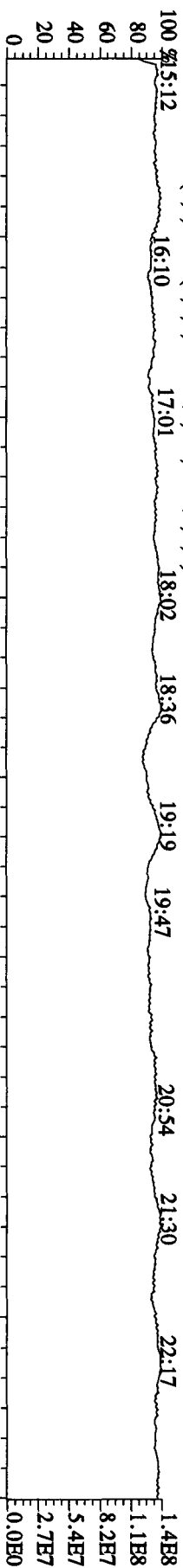


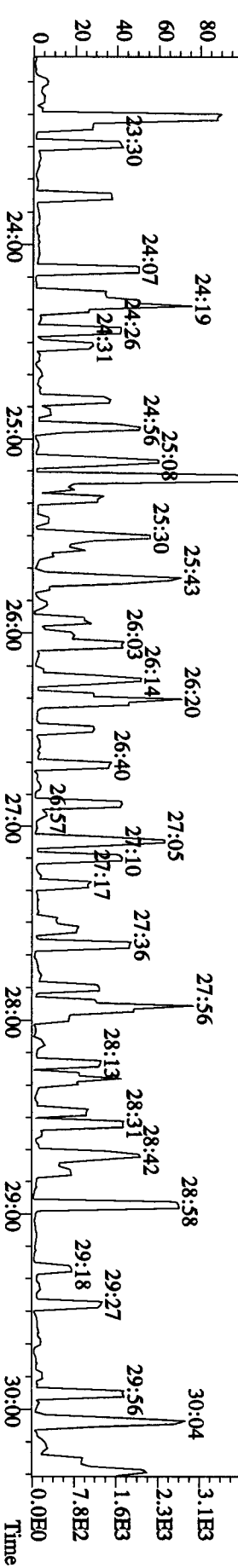
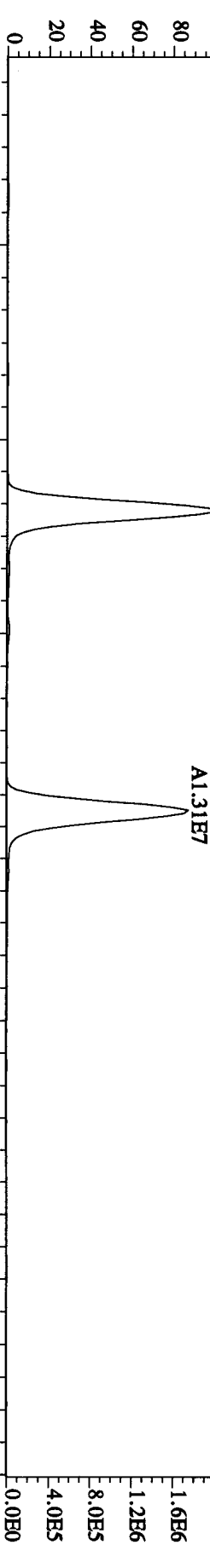
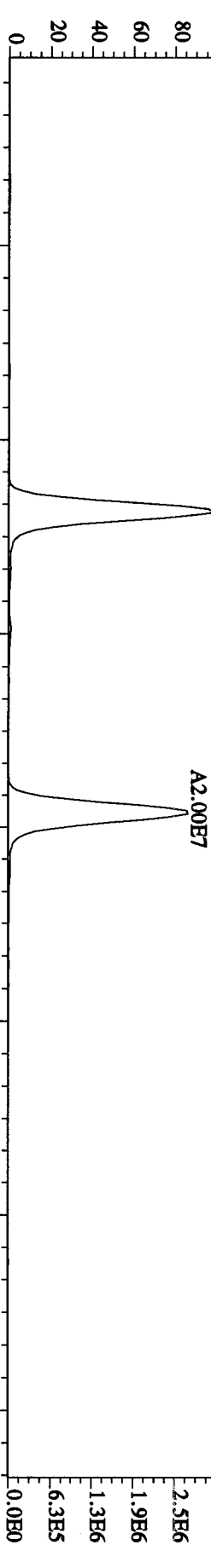
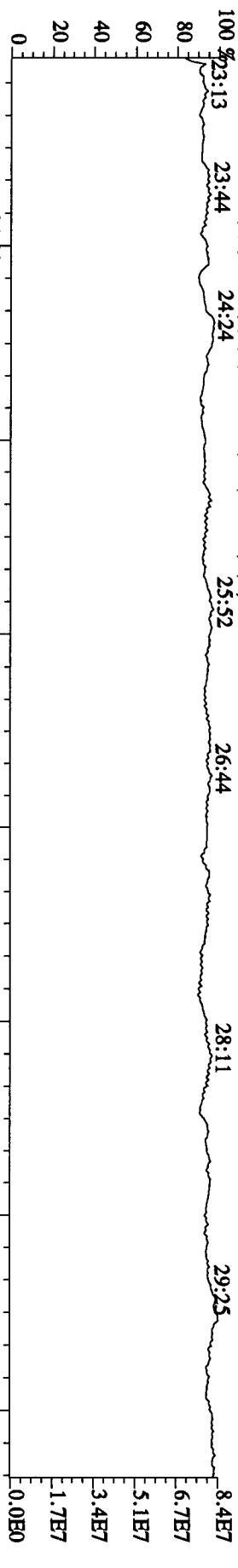
469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2108,0,1.00%,F,T)

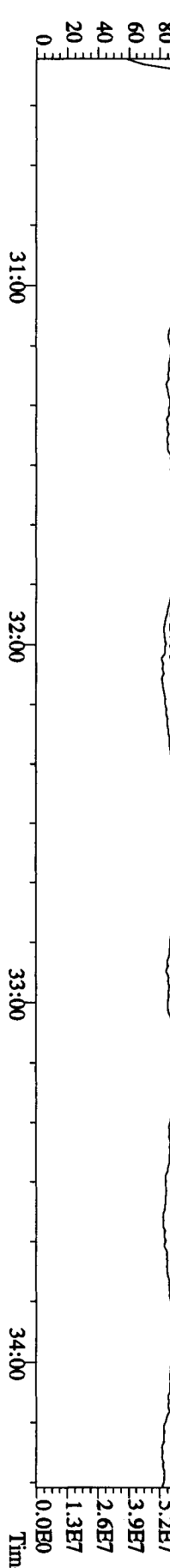
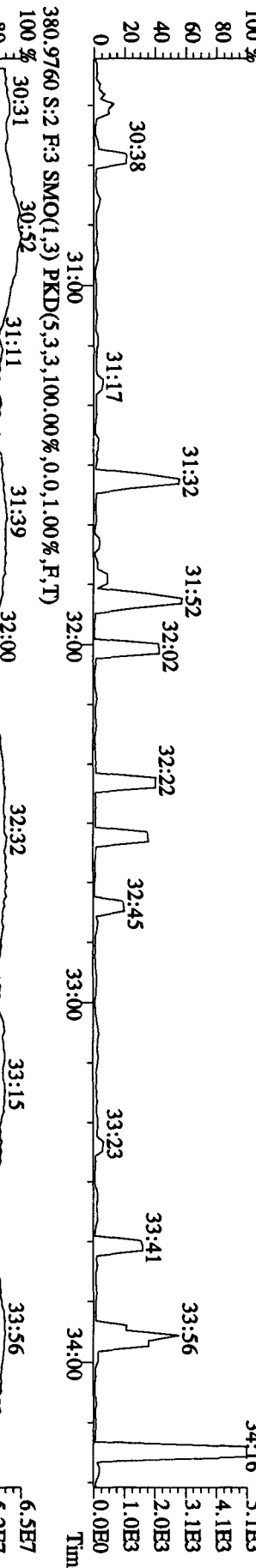
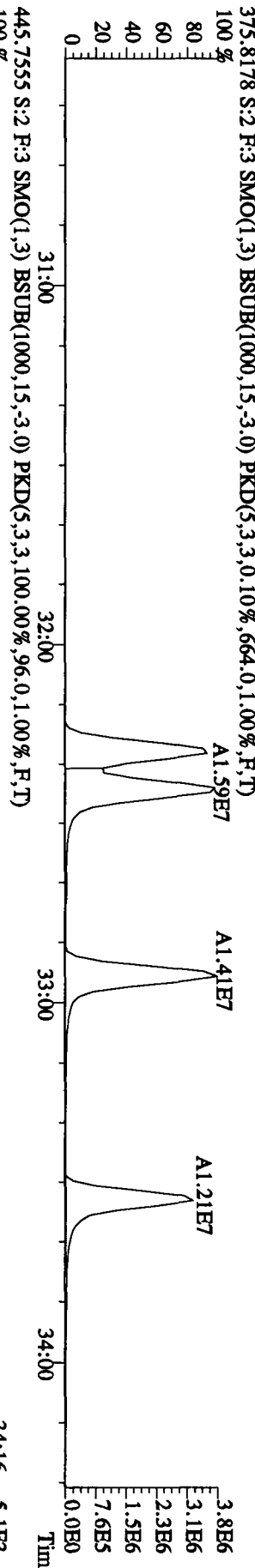
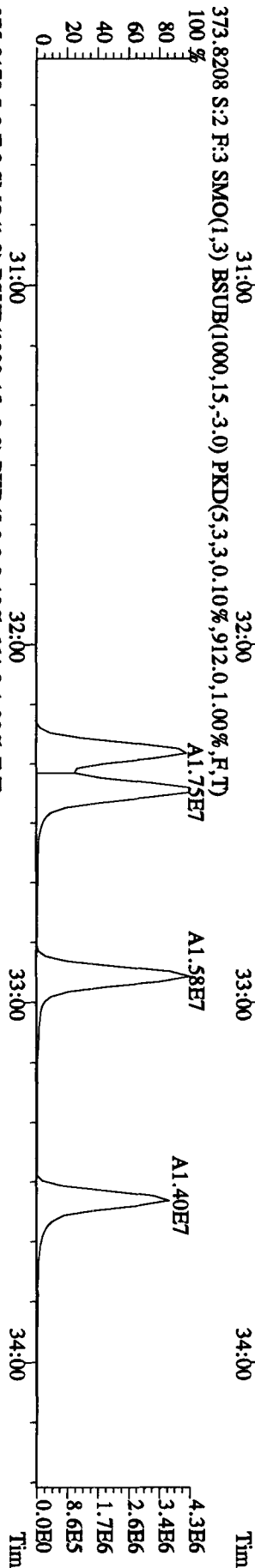
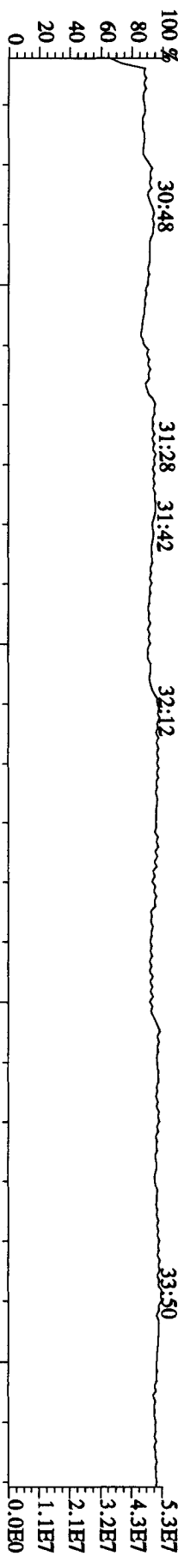


471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9912,0,1.00%,F,T)

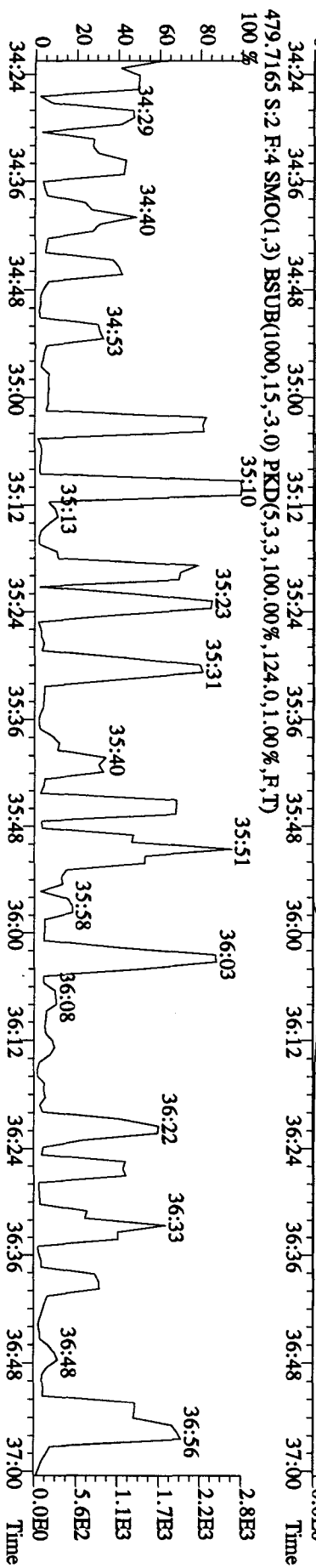
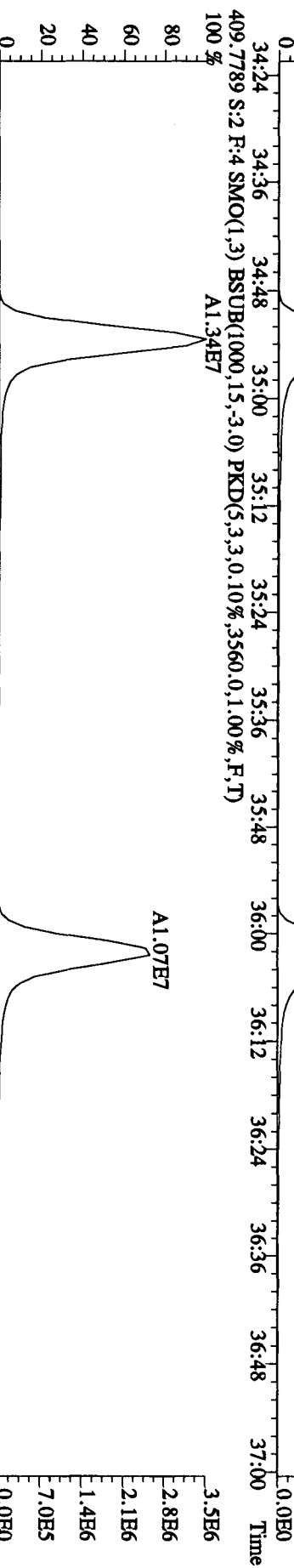
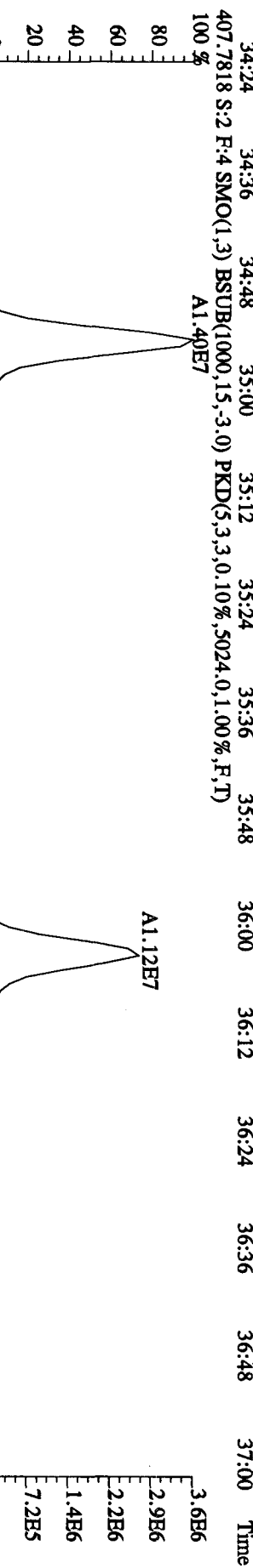
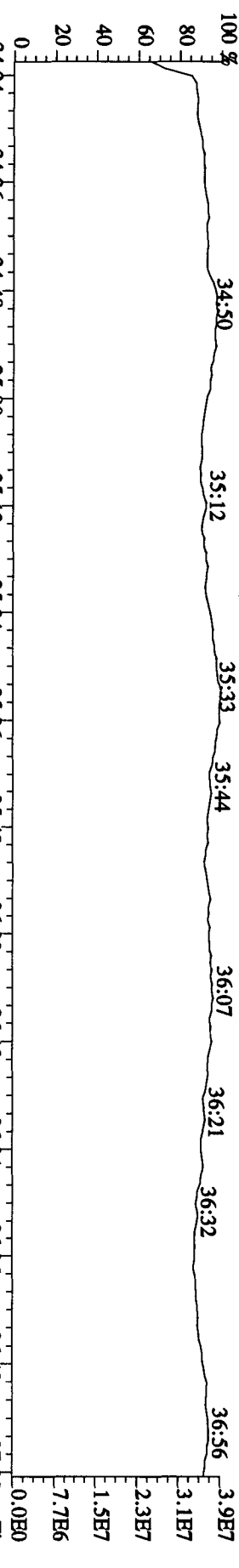




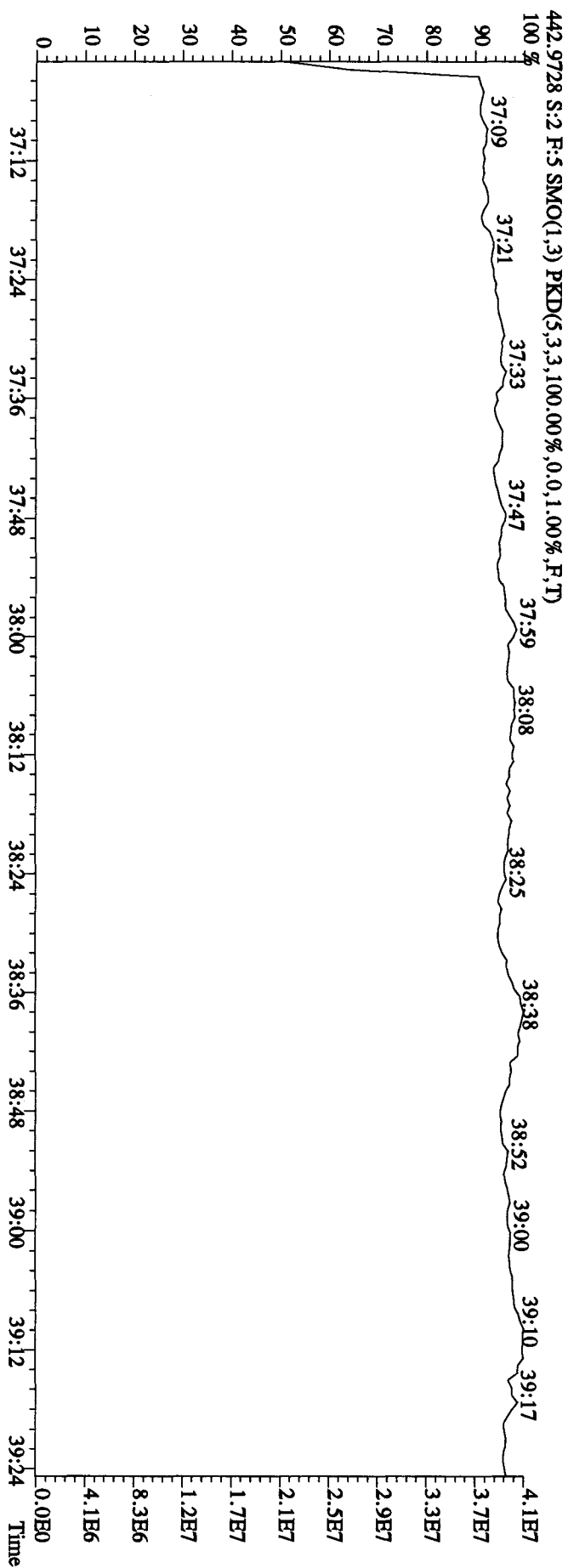
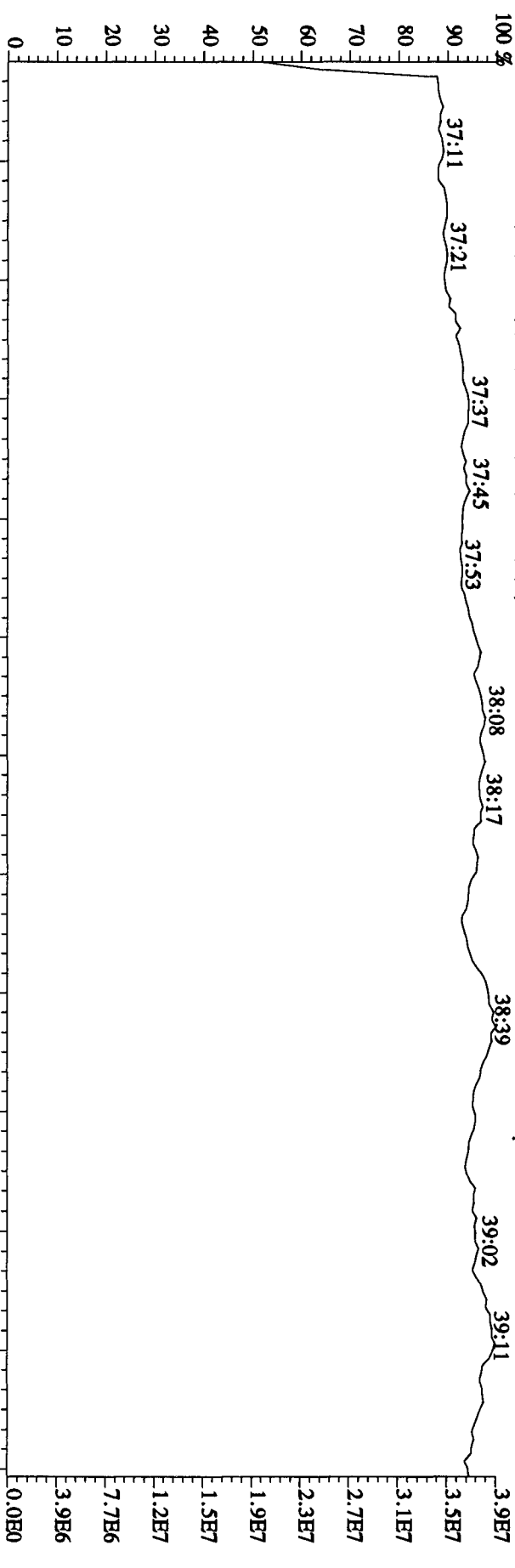




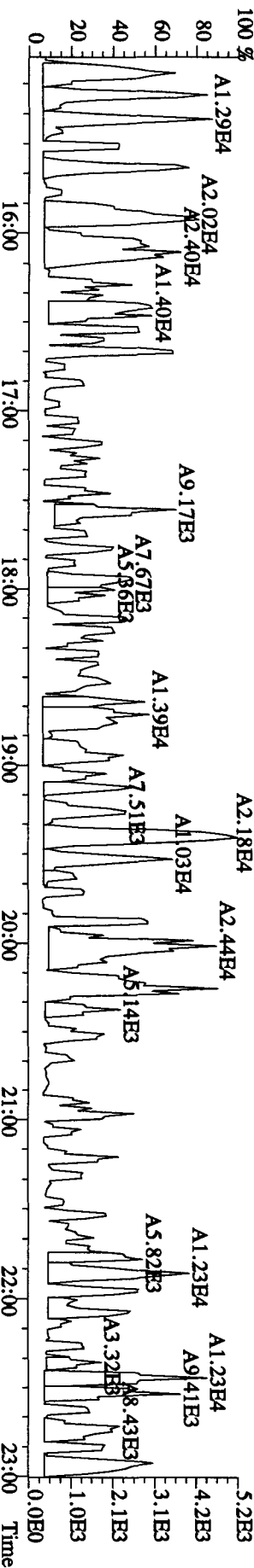
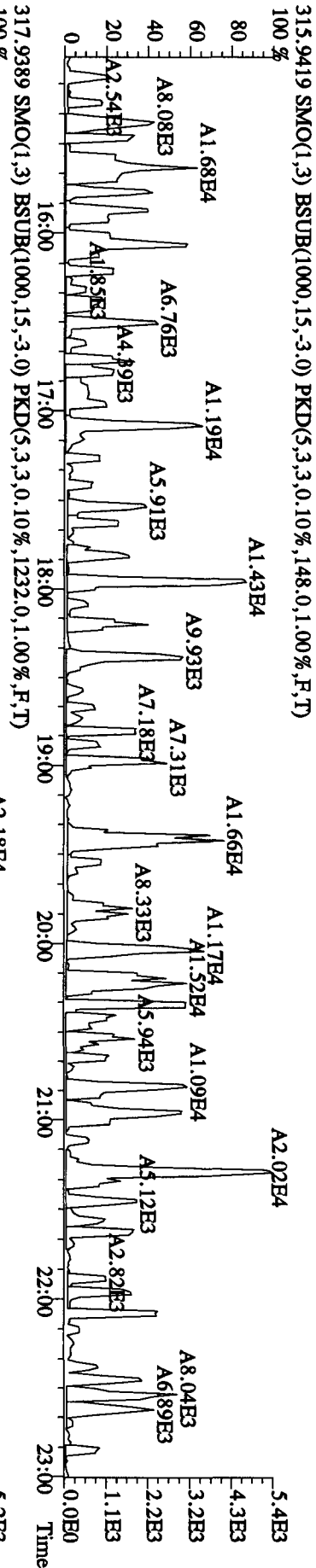
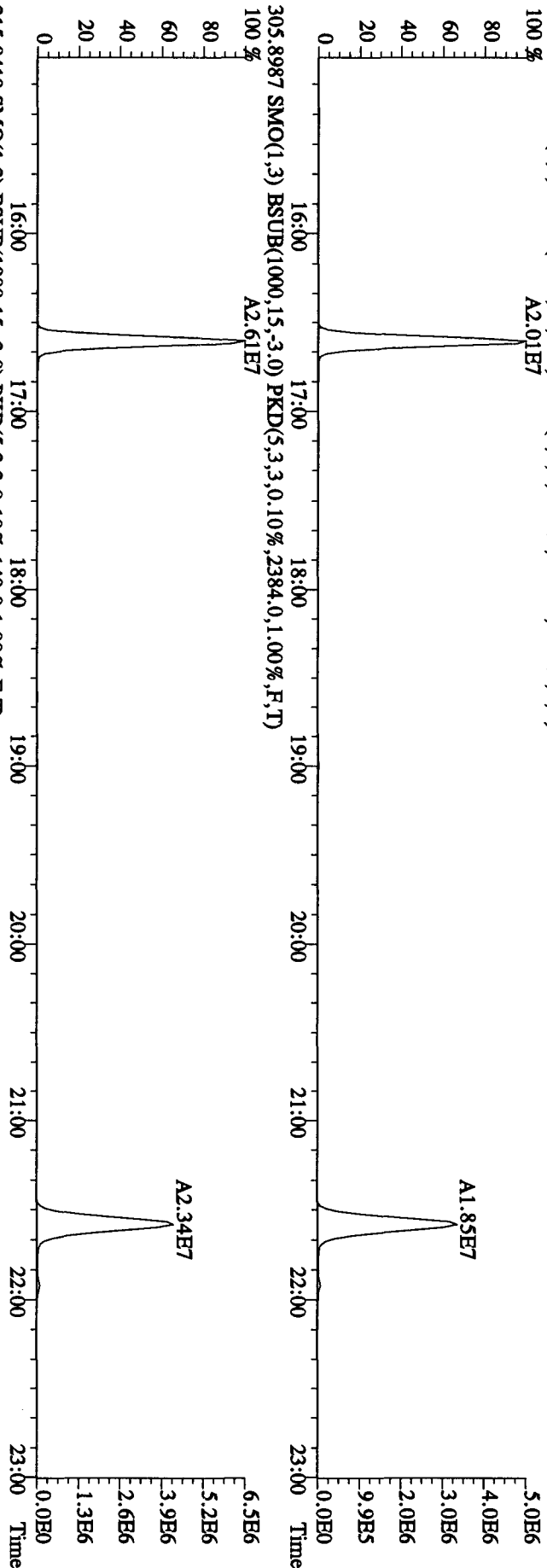
File:280C104D5 #1-200 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 %



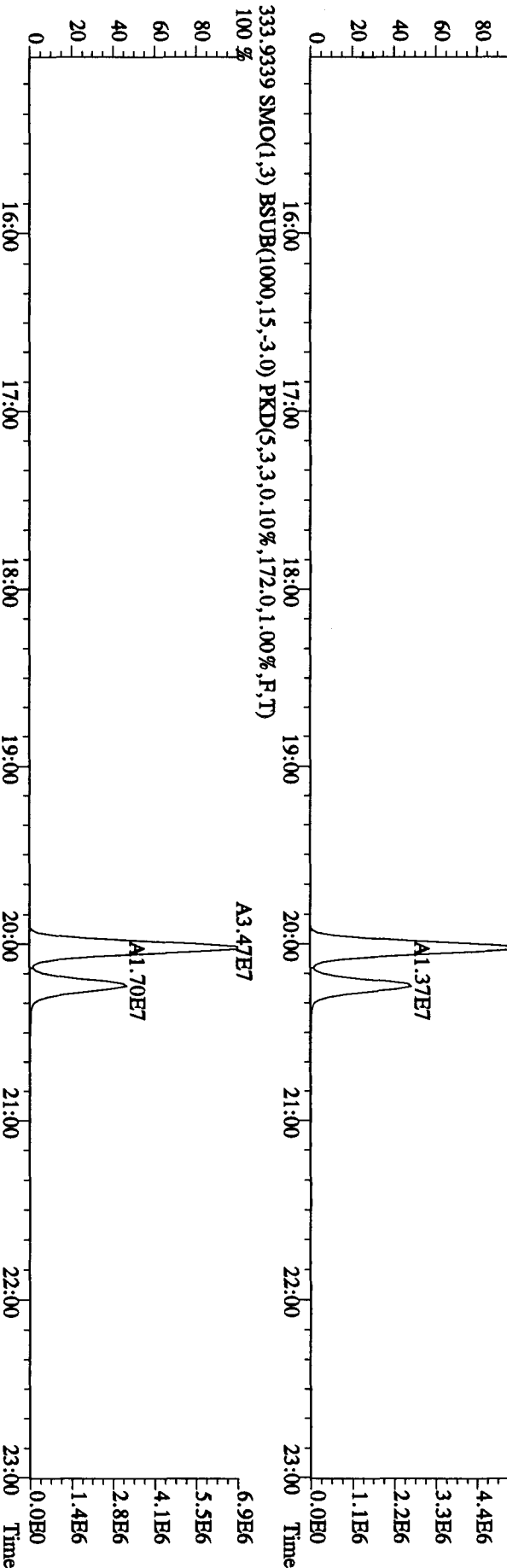
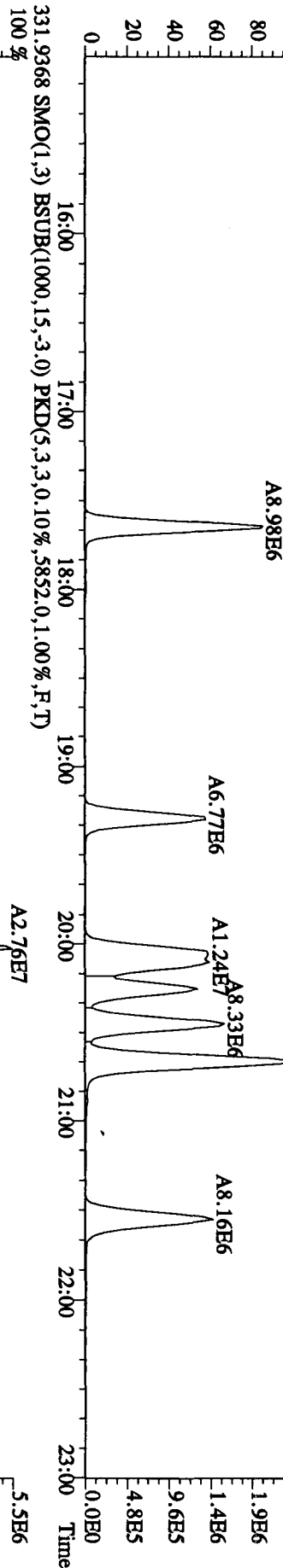
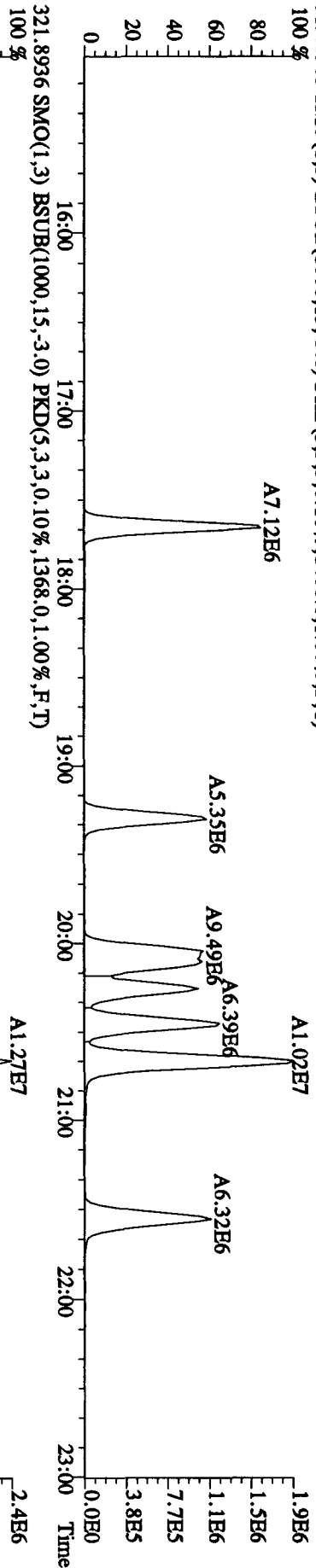
File:28OC104D5 #1-193 Acq:28-OCT-2010 10:21:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST1028 :CS3 10DXN461 Exp:DIOXINRES
 454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



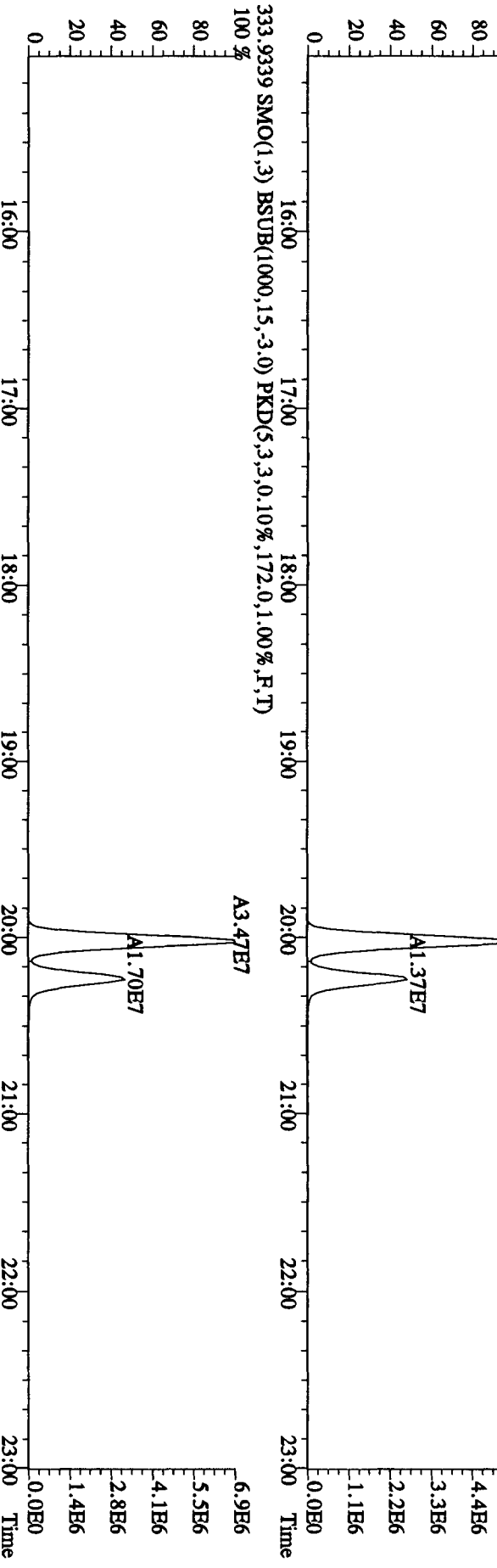
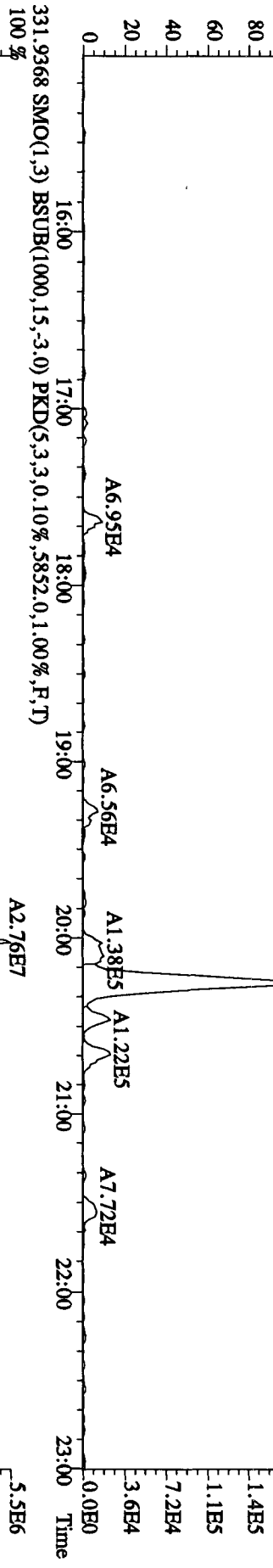
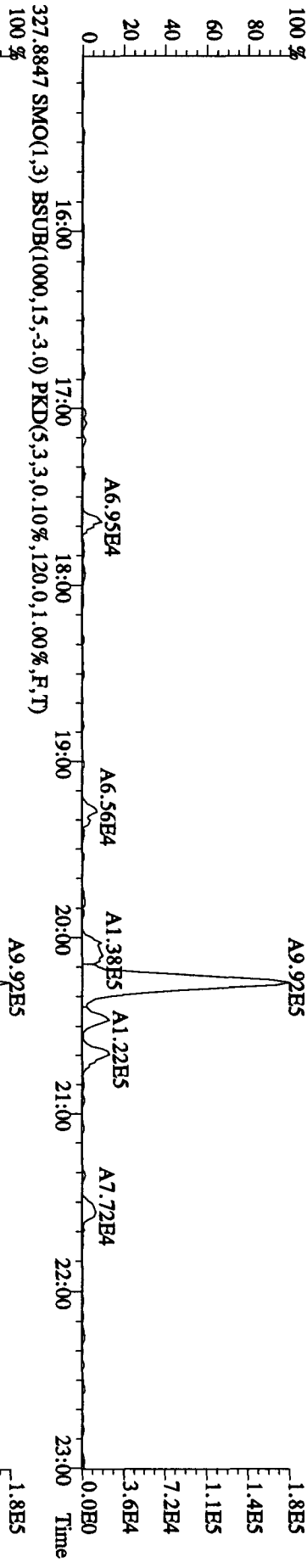
File:280C104D5 #1-530 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINES
 303.9016 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,1308.0,1.00%,F,T)
 100 % A2.01E7



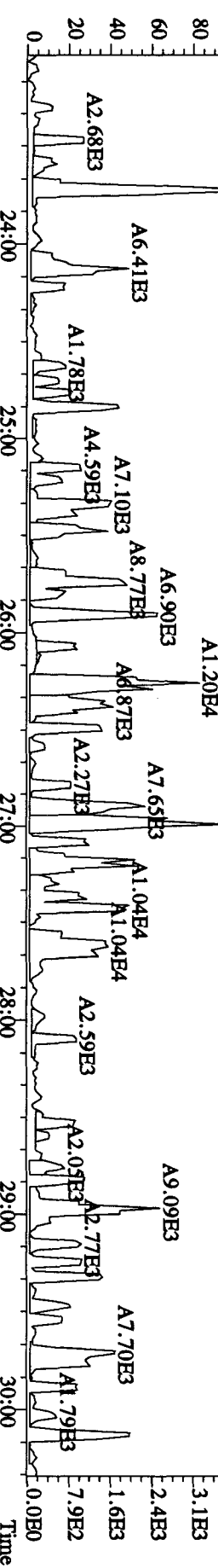
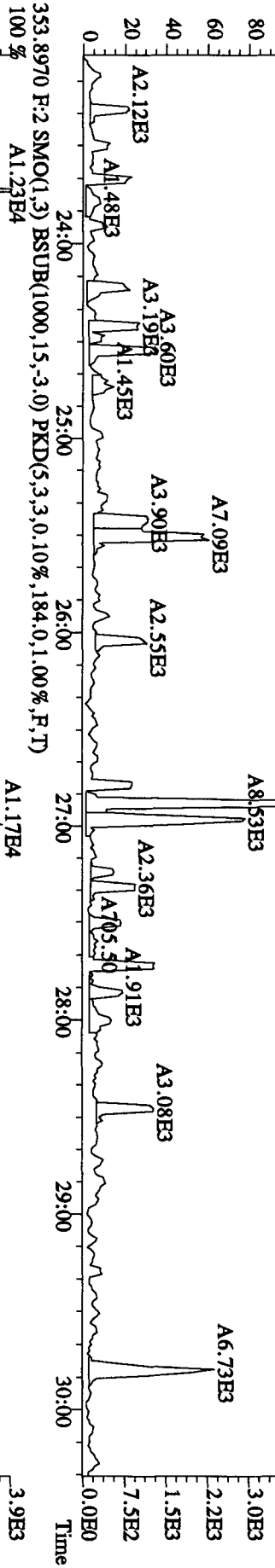
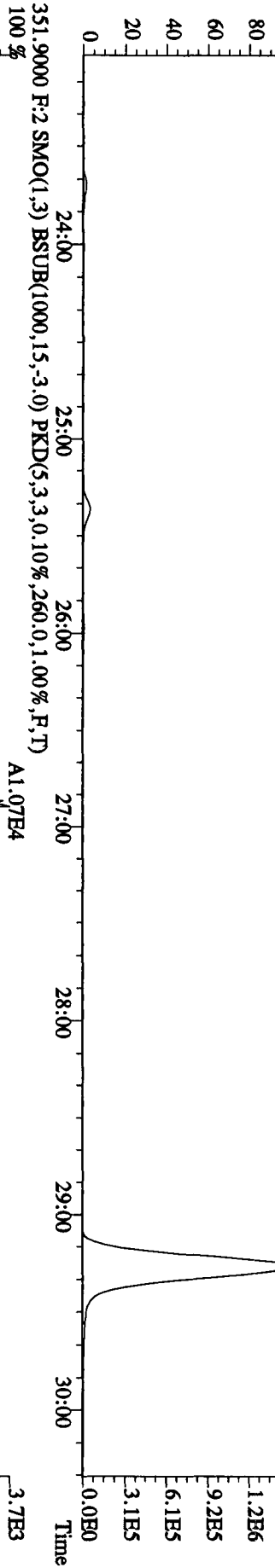
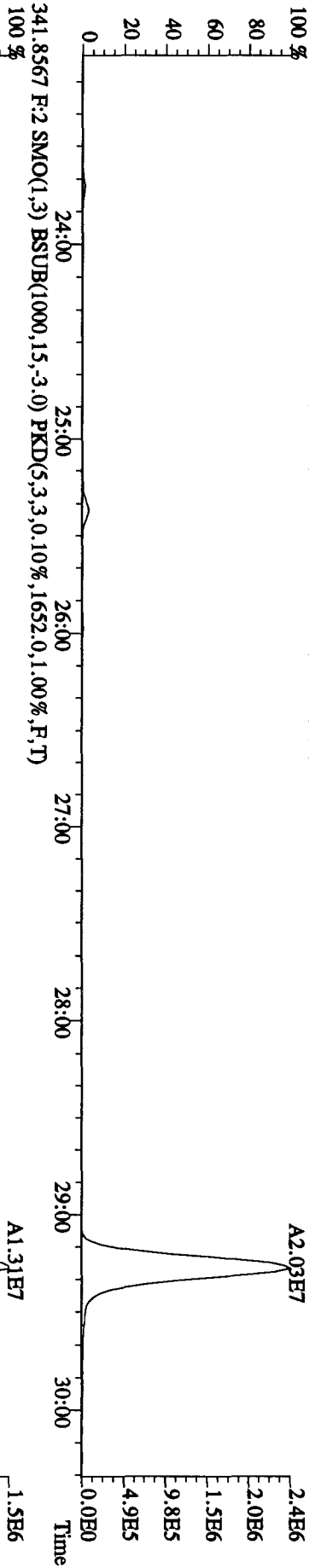
File:28OC104D5 #1-530 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)



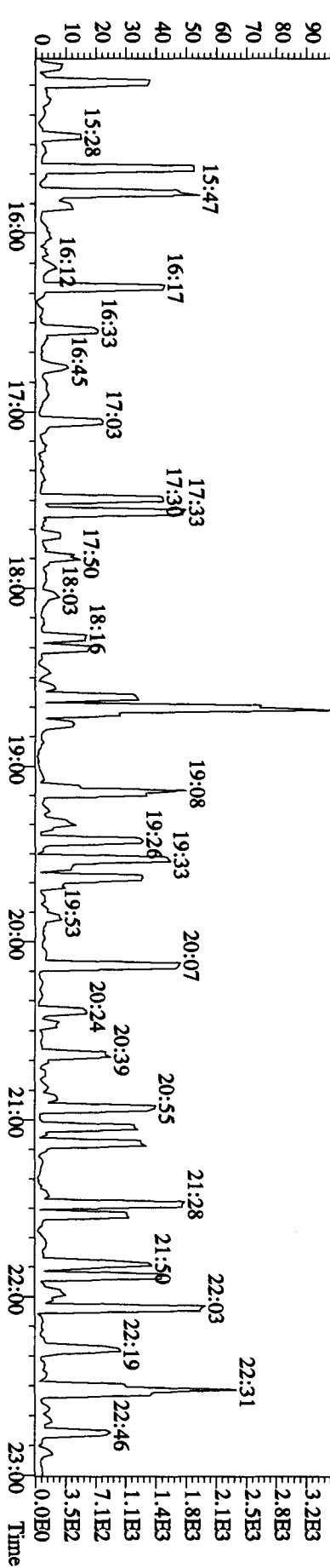
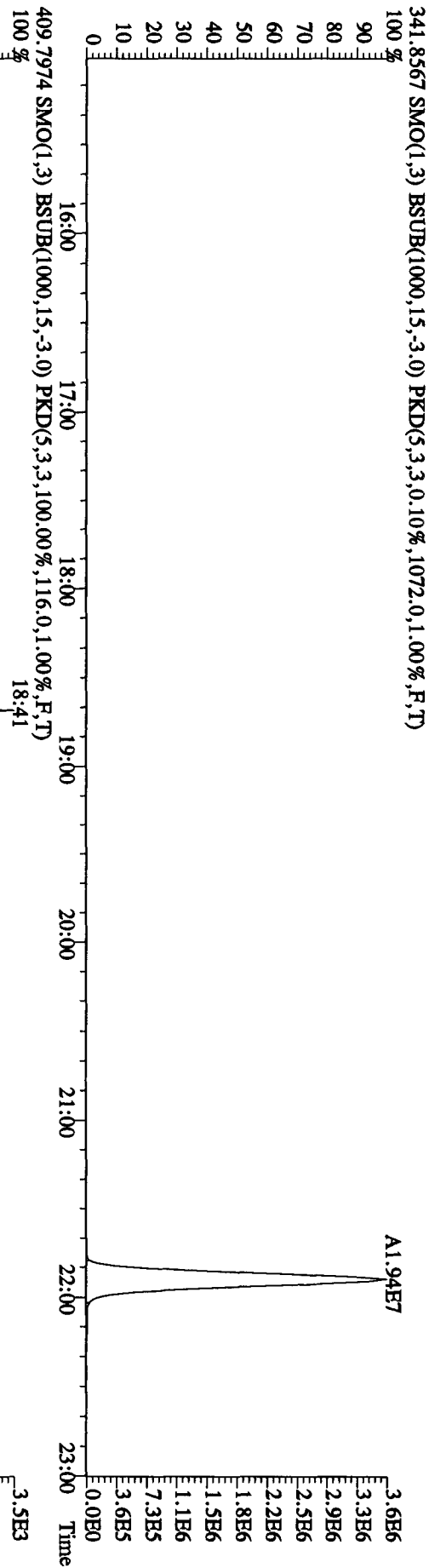
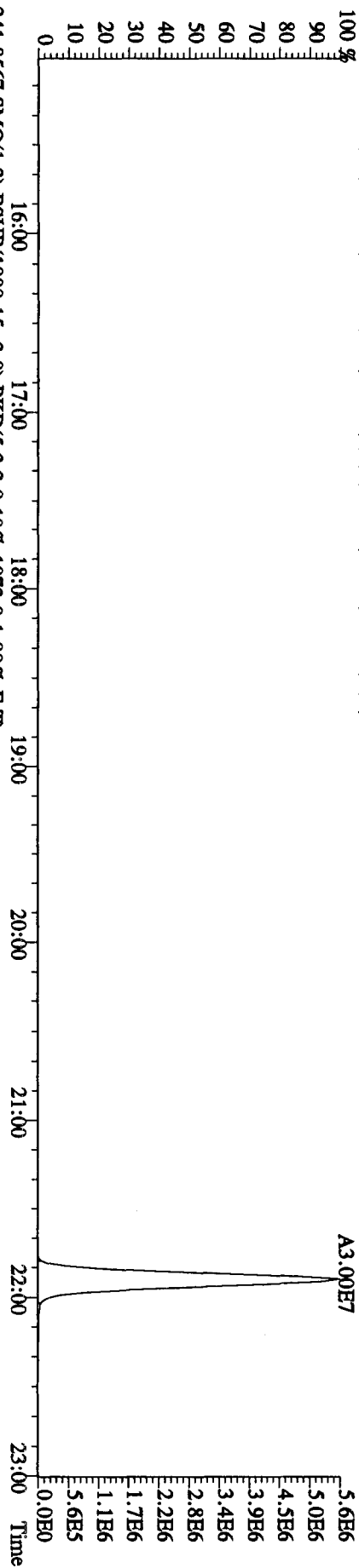
File:28OC104D5 #1-530 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 CPM 3732-10 Exp:DIOXINRES
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,120,0,1,00%,F,T)



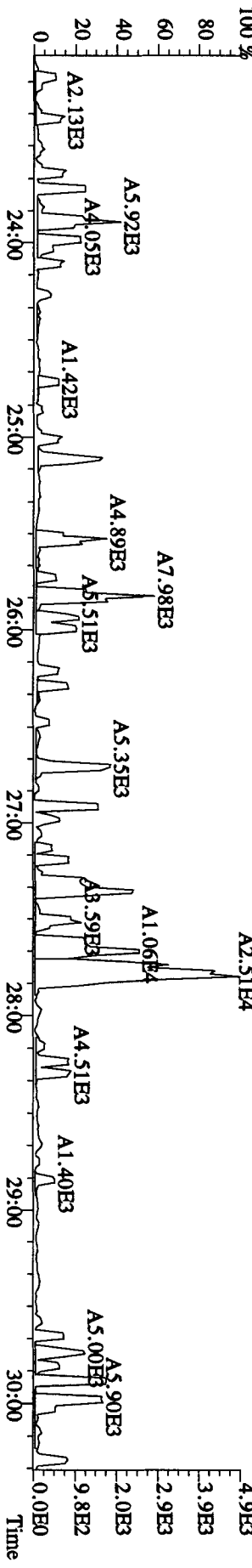
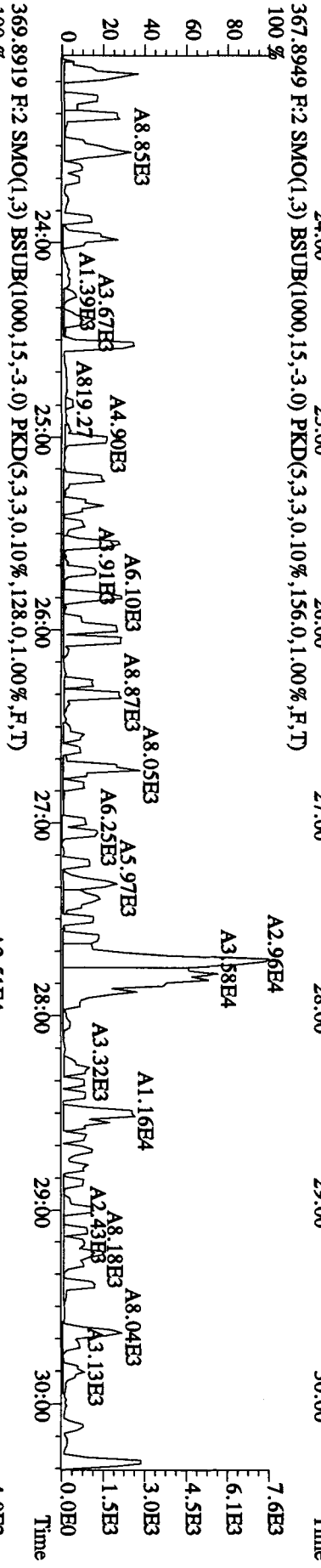
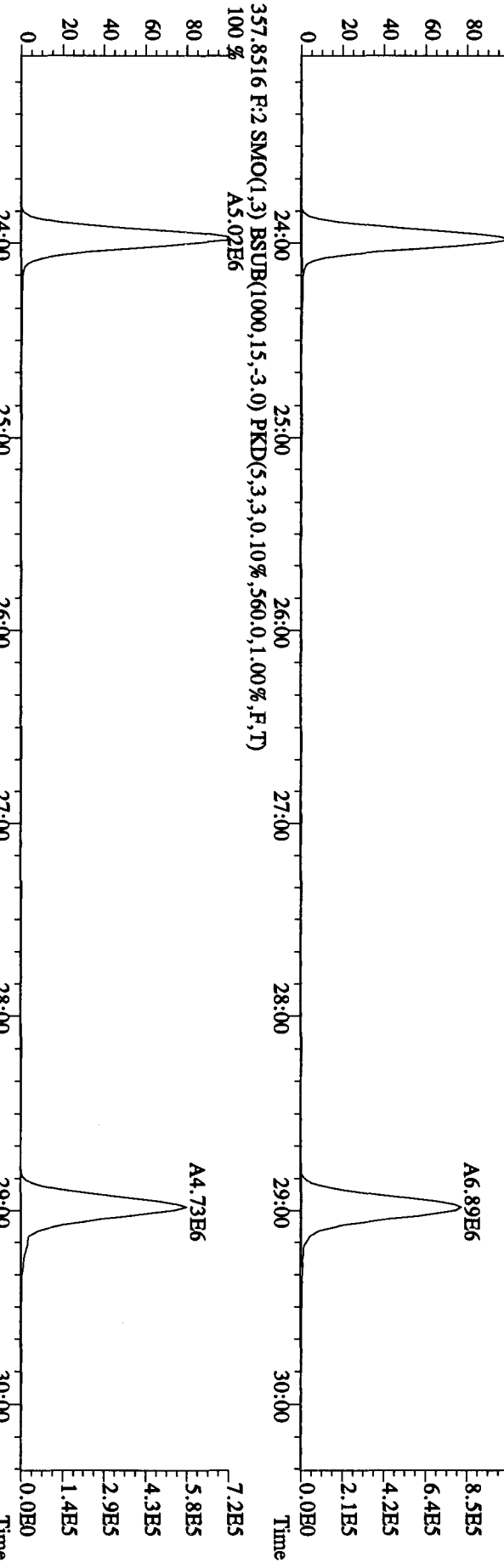
File:280C104D5 #1-470 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 CP5M 3732-10 Exp:DIOXINRES
 339.8597 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1028.0,1.00%,F,T)



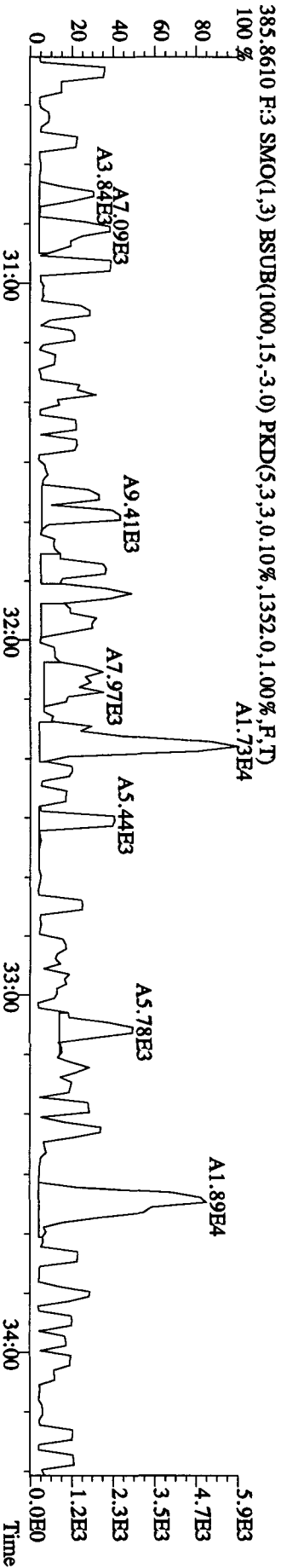
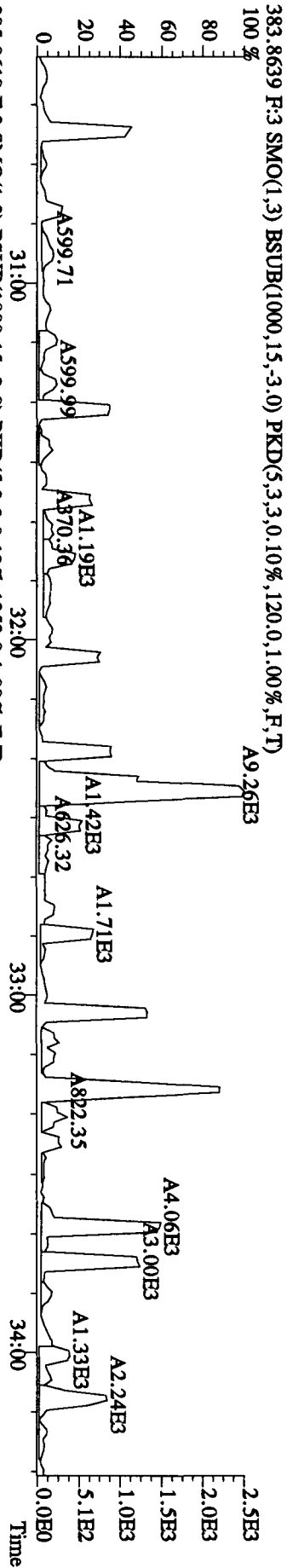
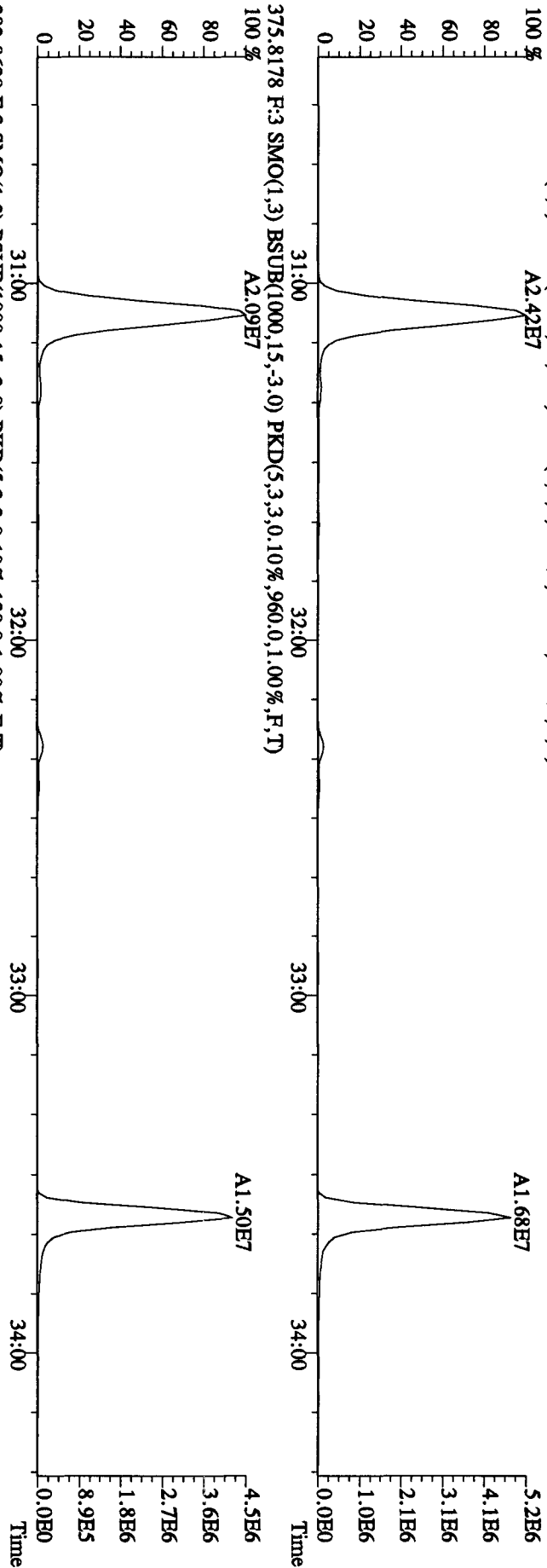
File: 280C104D5 #1-530 Acq: 28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP1028 :DB-5 CPM 3732-10 Exp: DIOXINRES
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)



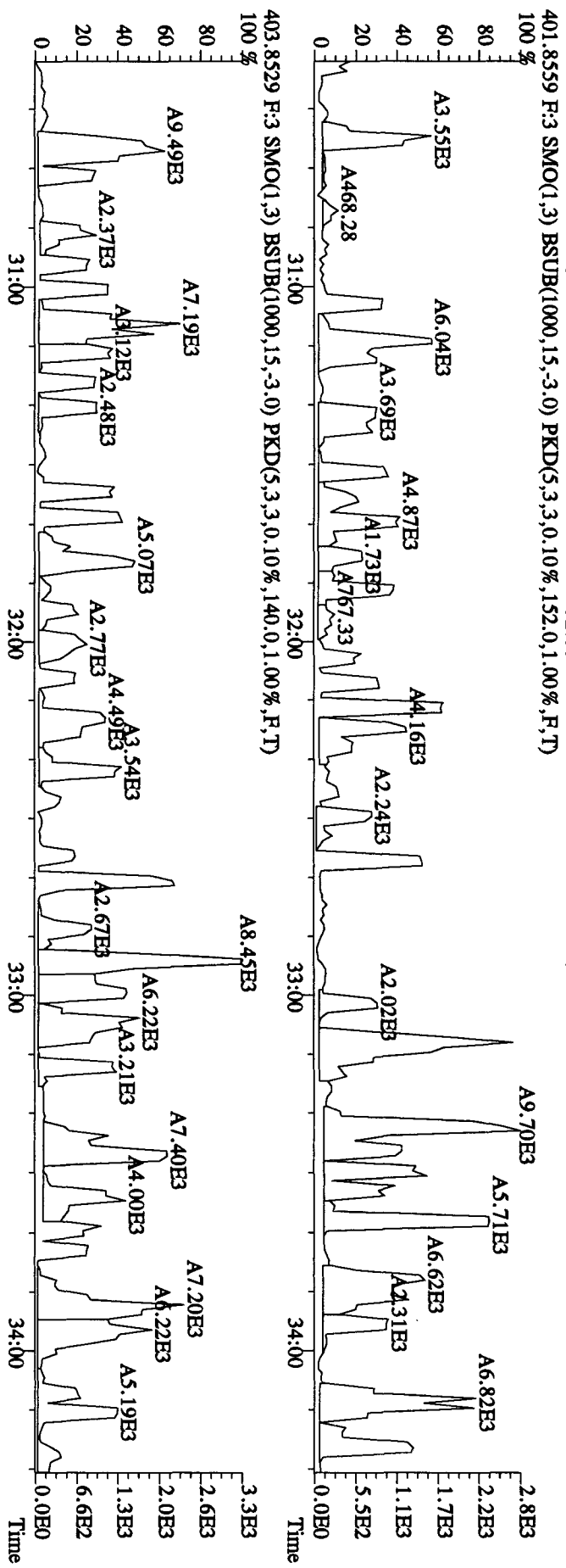
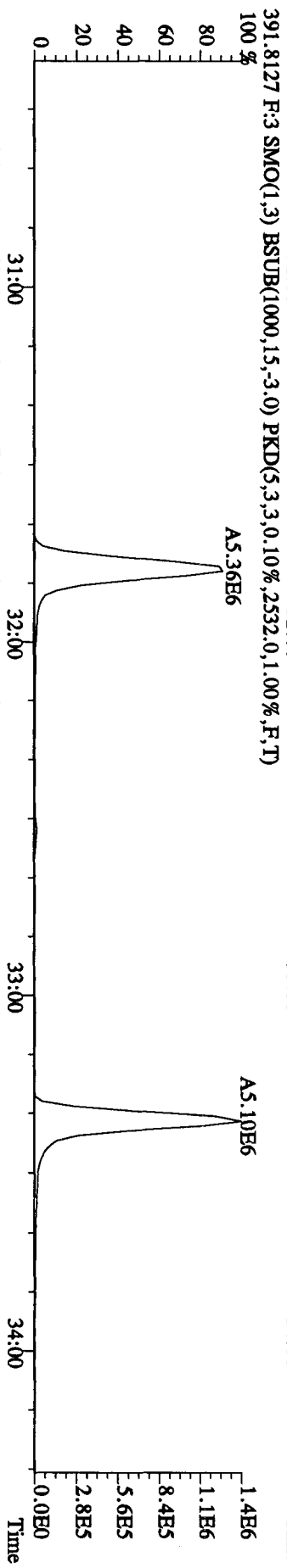
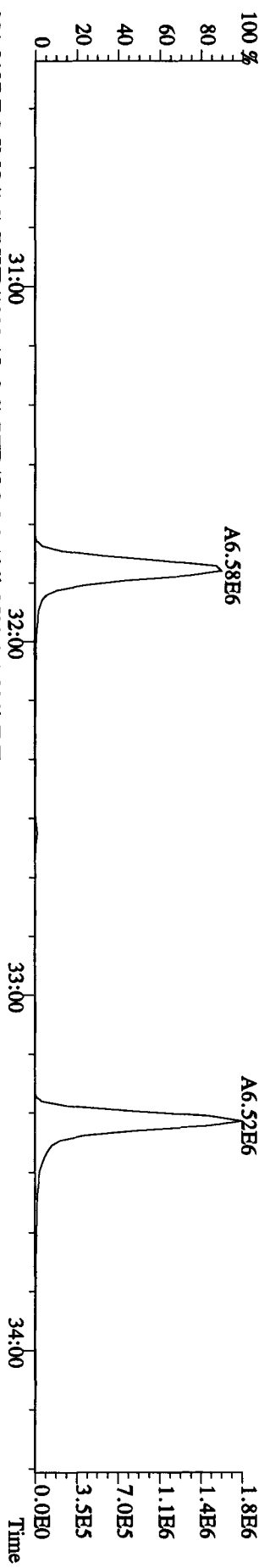
File:28OC104D5 #1-470 Acq:28-OCT-2010 09:36:56 GC EI + Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1708.0,1.00%,F,T)
 100% A7.40E6



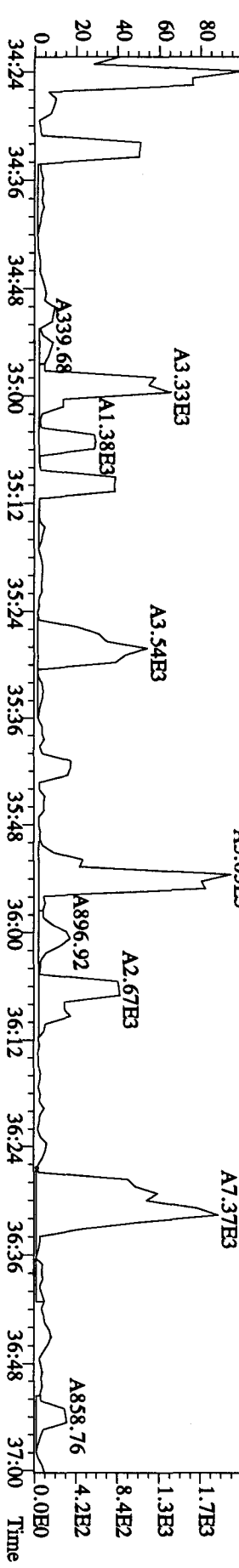
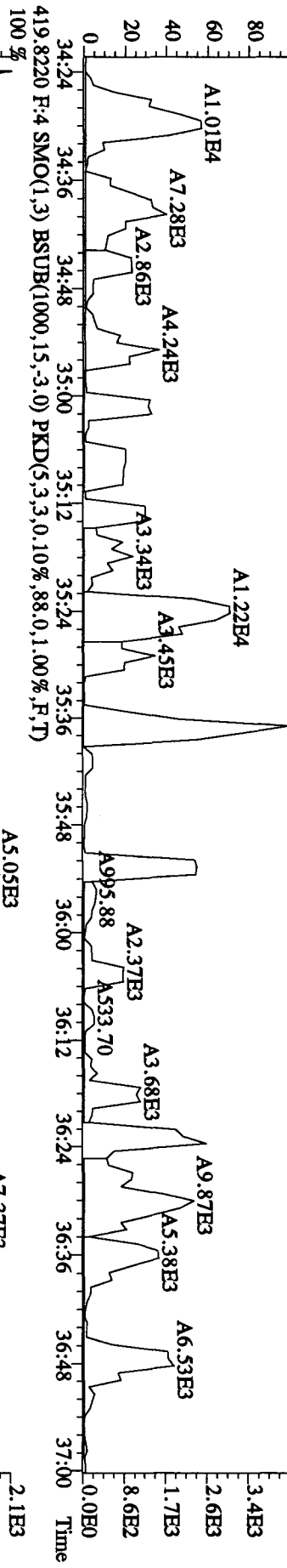
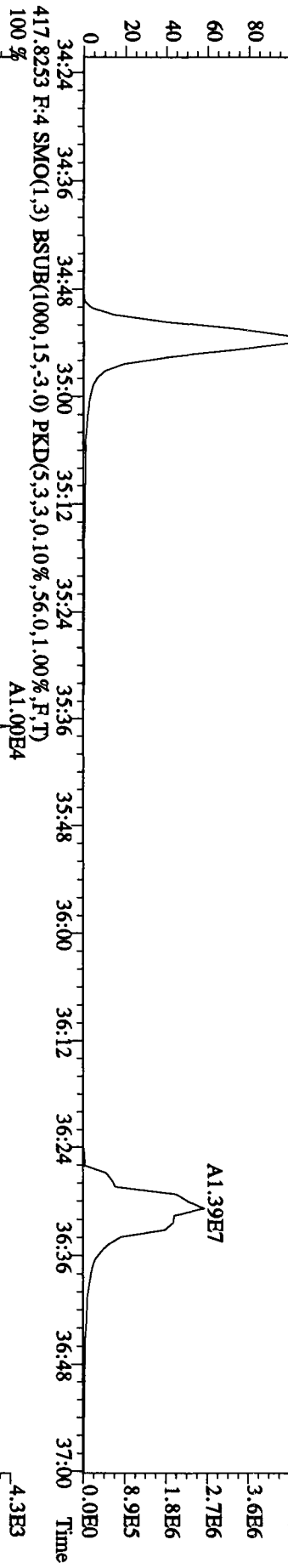
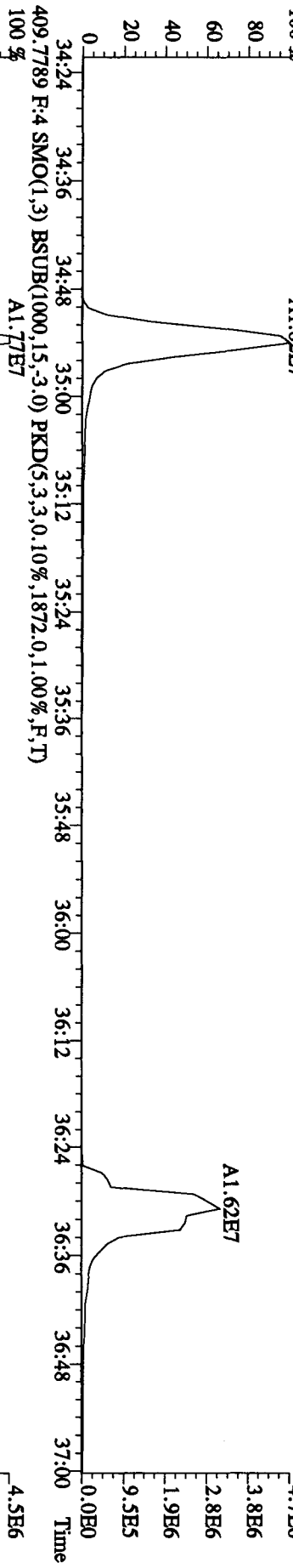
File: 280C104D5 #1-287 Acq: 28-OCT-2010 09:36:56 GC EI + Voltage SIR Autospec-Ultimate
 Sample#1 Text: CP1028 :DB-5 CPSM 3732-10 Exp: DIOXINES
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2920.0,1.00%,F,T)
 100%

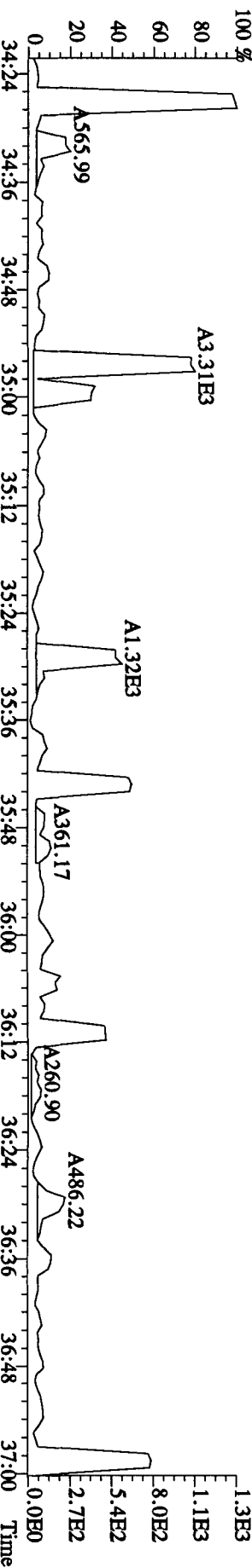
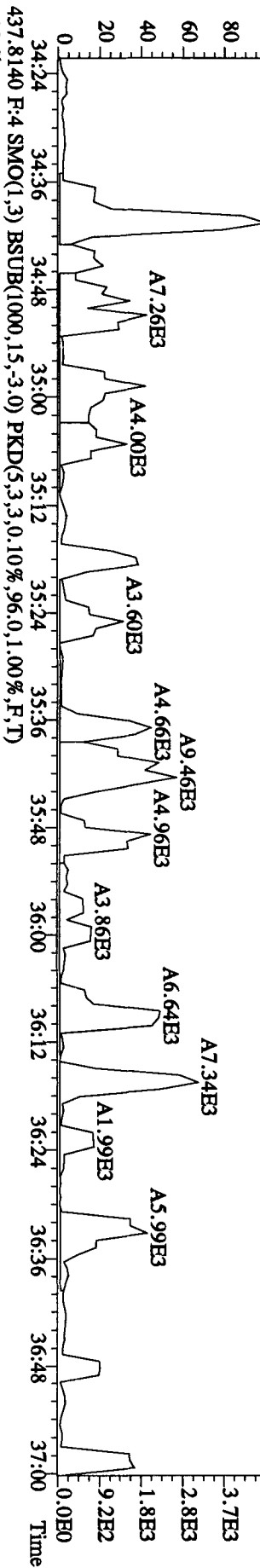
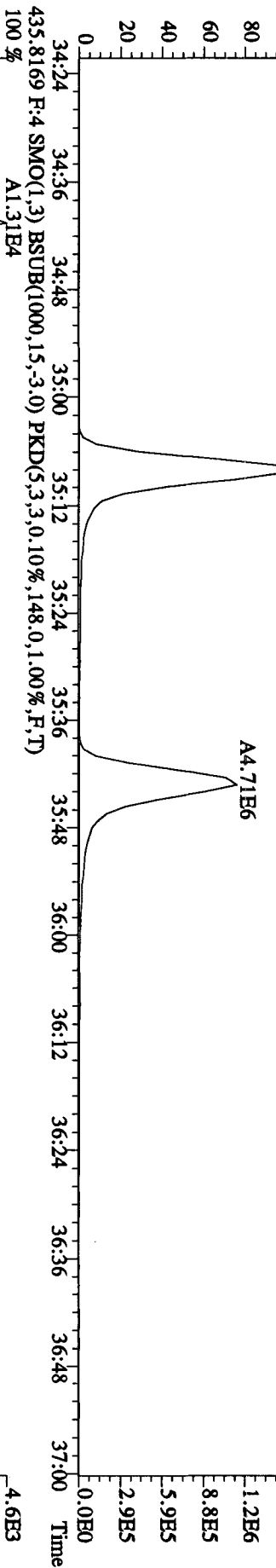
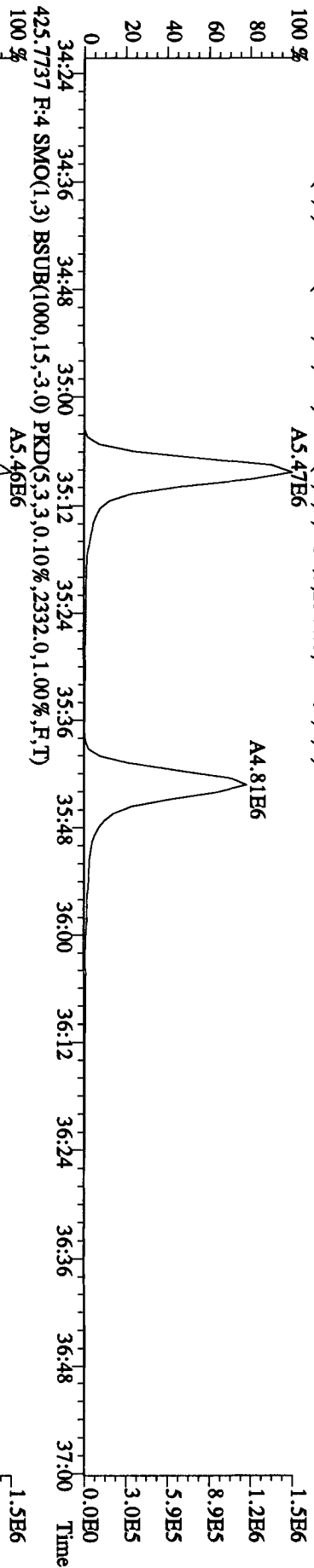


File:280C104D5 #1-287 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP1028 :DB-5 CPM 3732-10 Exp:DIOXINRES
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1940,0,1,00%,F,T)

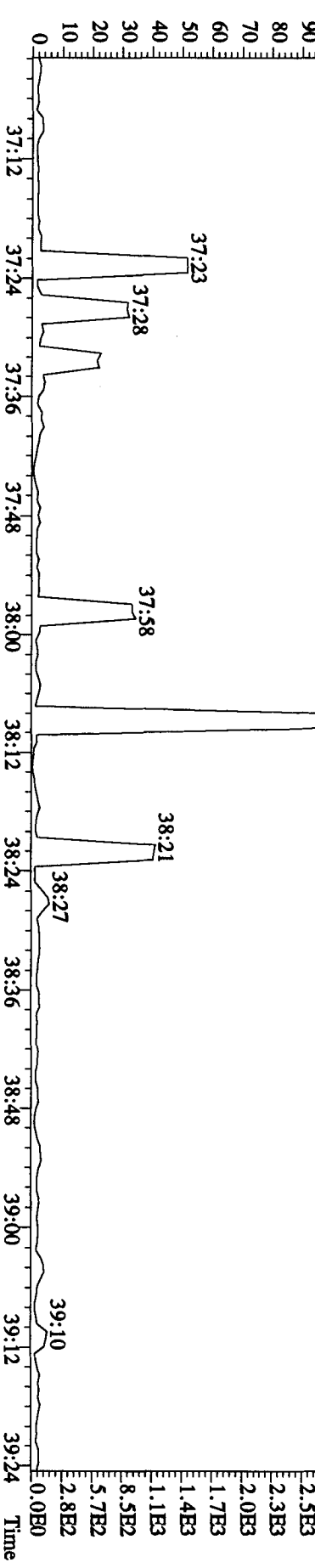
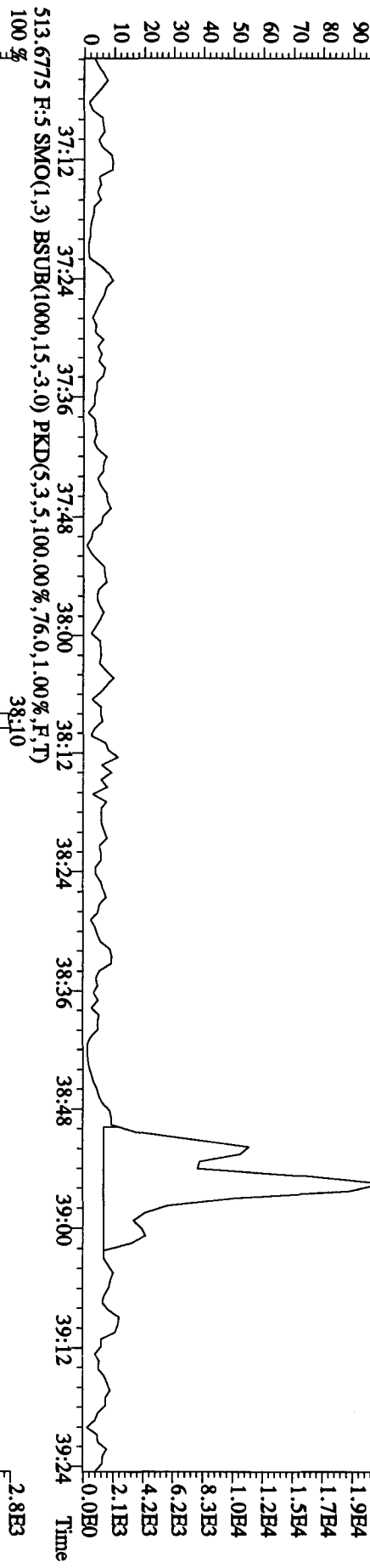
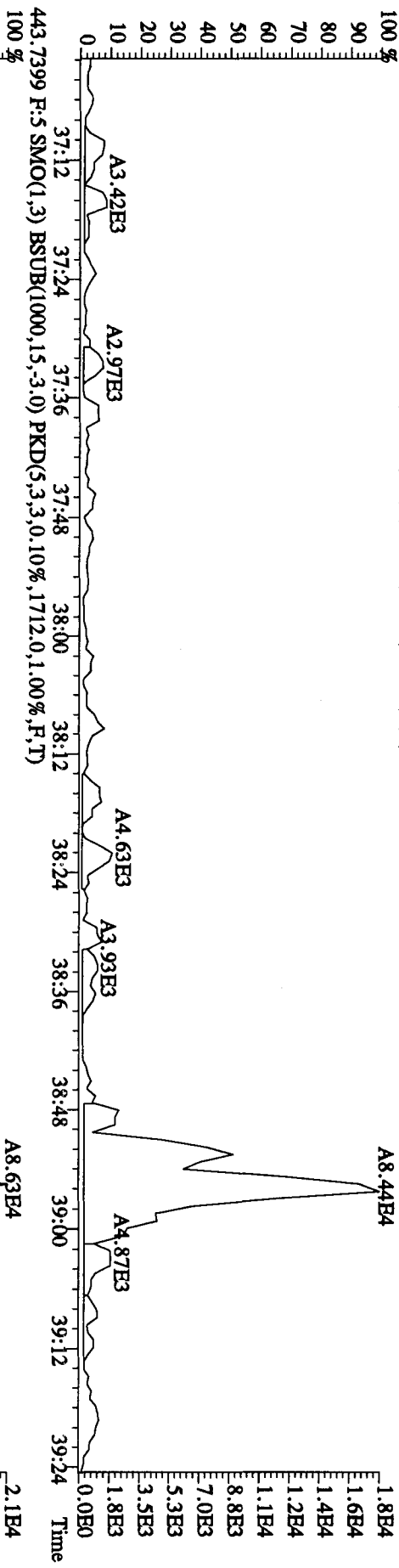


File: 280C104D5 #1-200 Acq: 28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: CP1028 :DB-5 C/PSM 3732-10 Exp: DIOXINRES
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1988.0,1.00%,F,T) 100%
 A1.82E7

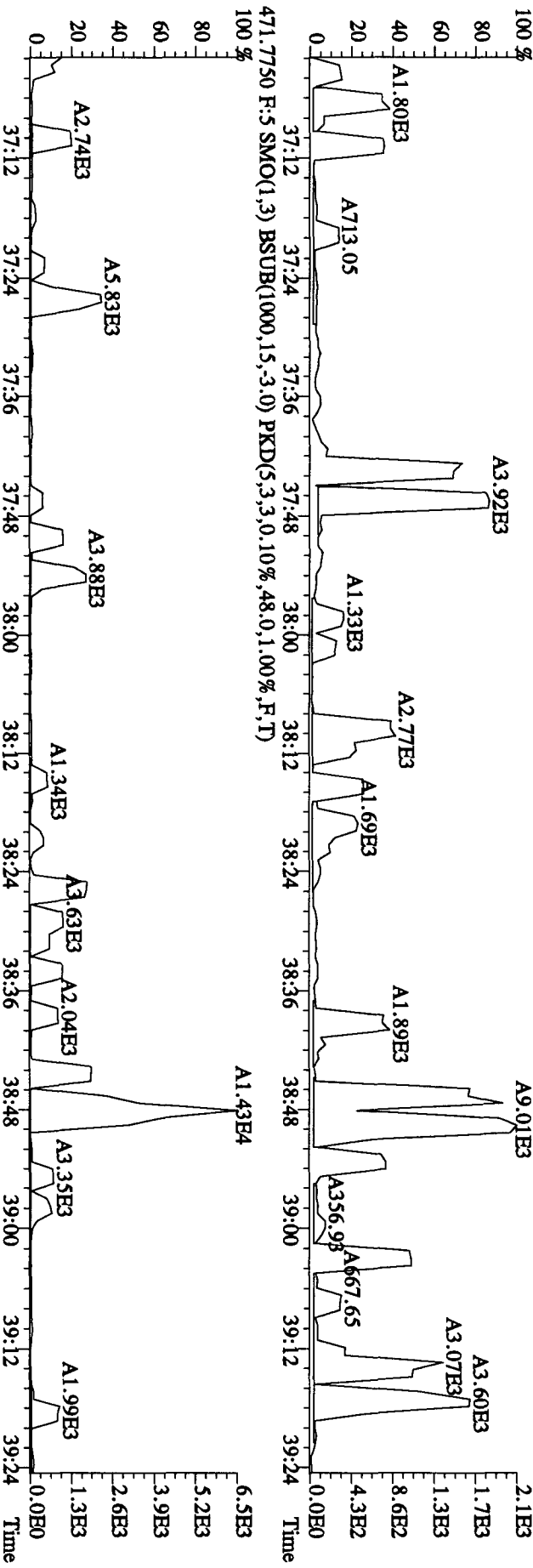
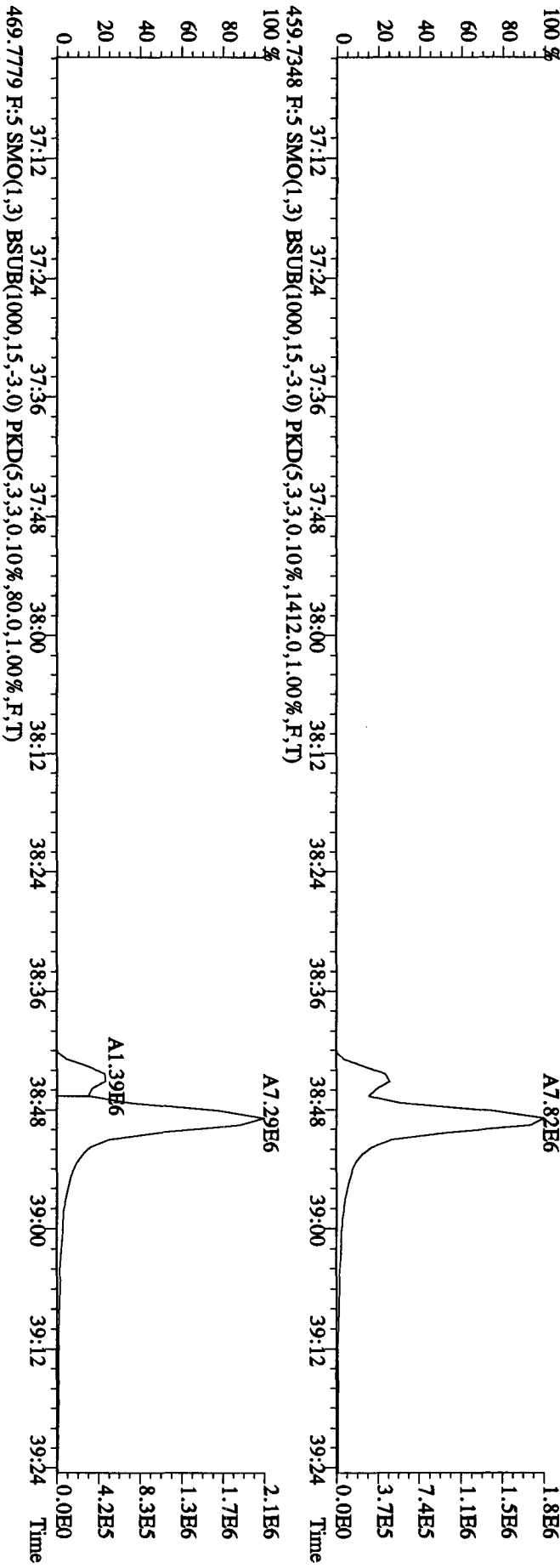




File:280C104D5 #1-193 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,532.0,1.00%,F,T)
 100%

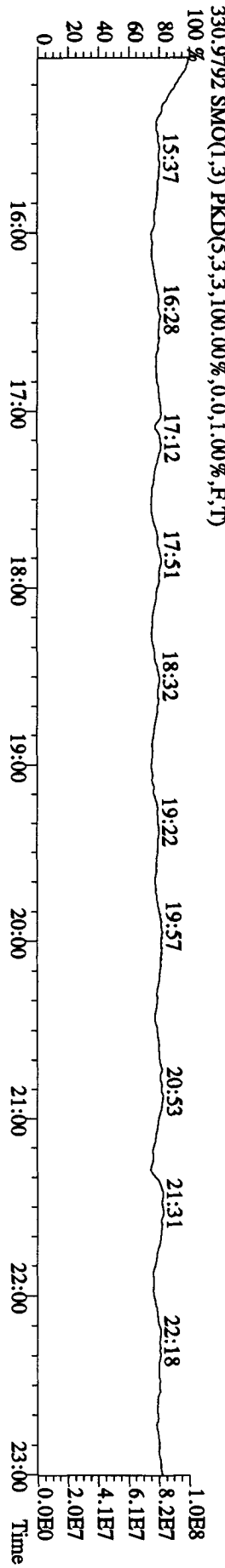
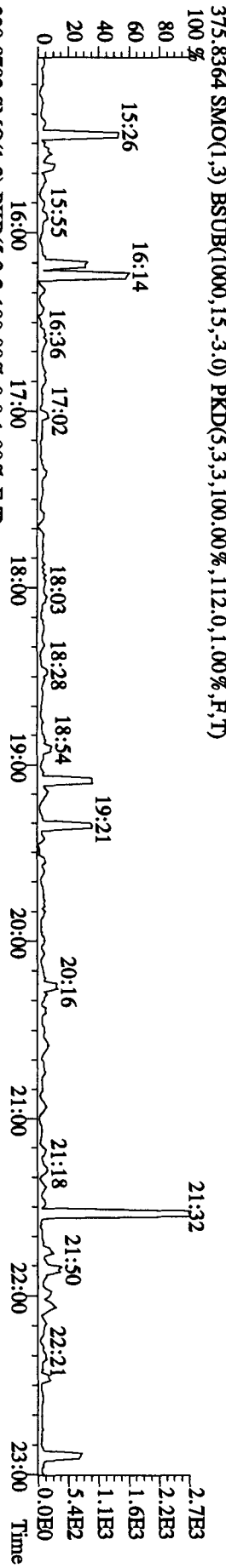
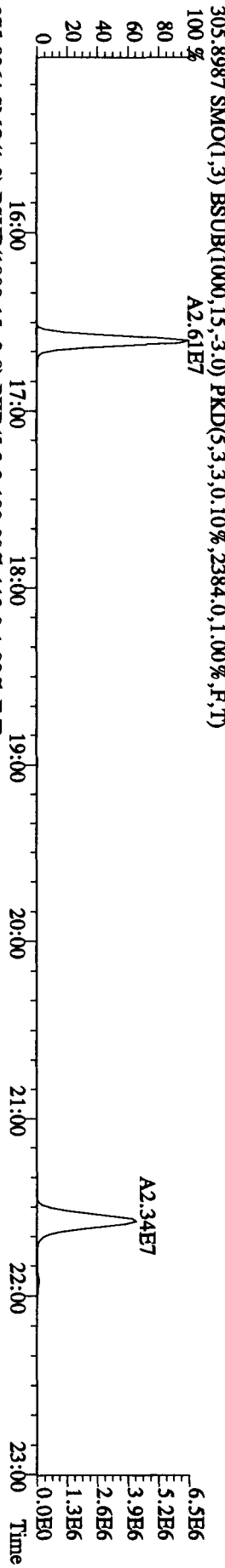
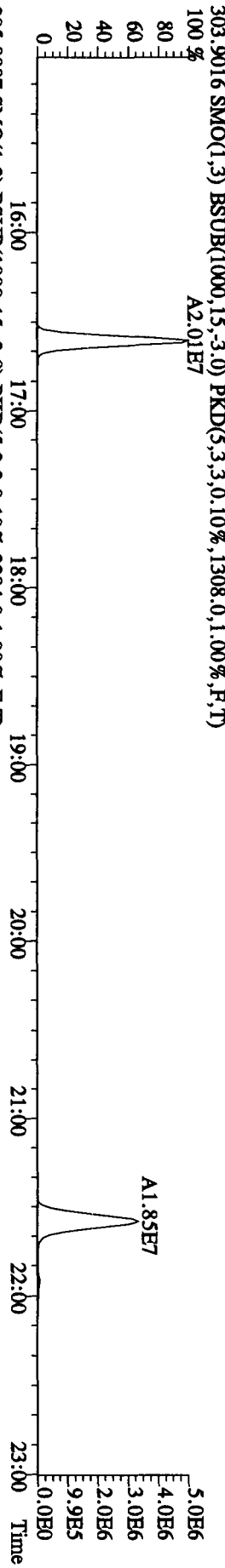
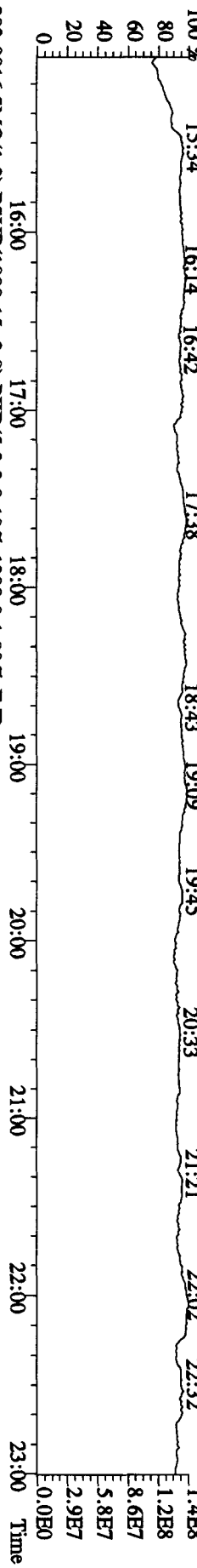


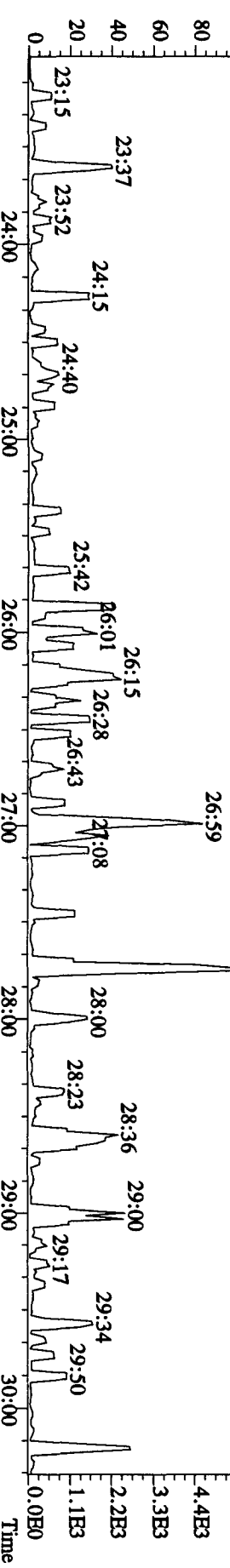
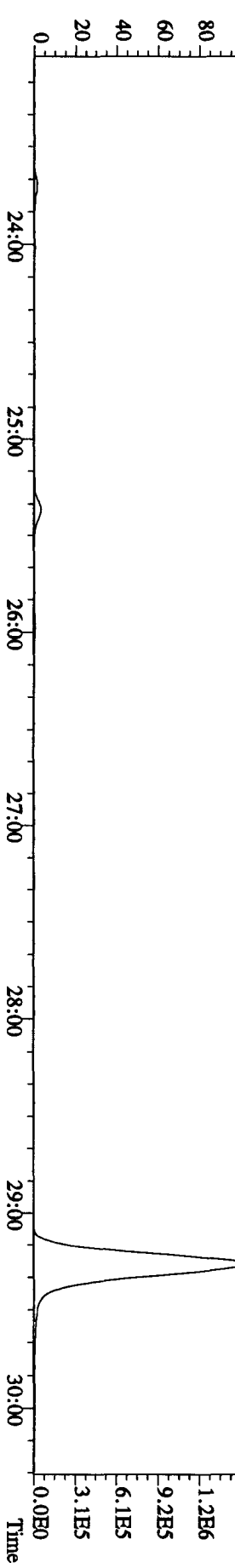
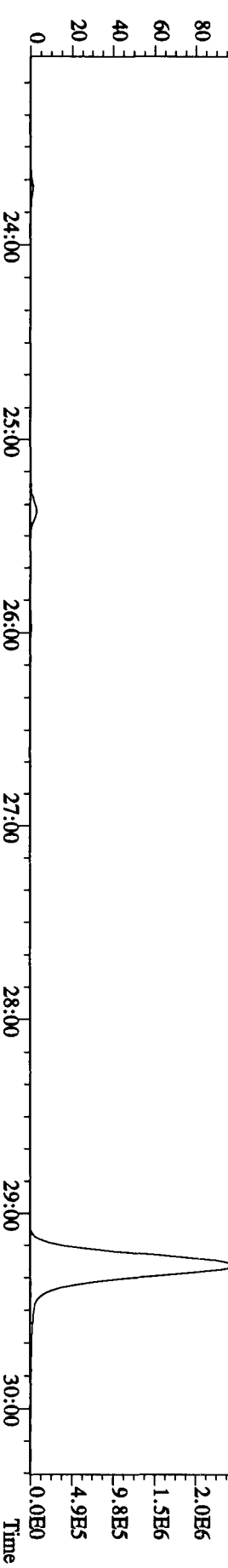
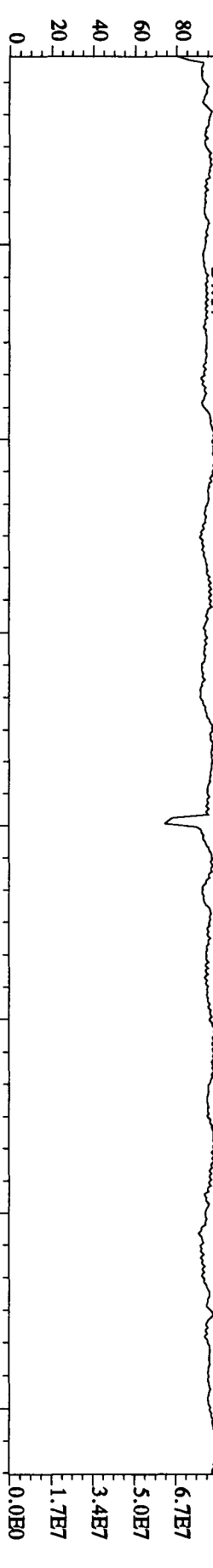
File:280C104D5 #1-193 Acq:28-OCT-2010 09:36:56 GC EI + Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1800,0,1,00%,F,T)
 100 %

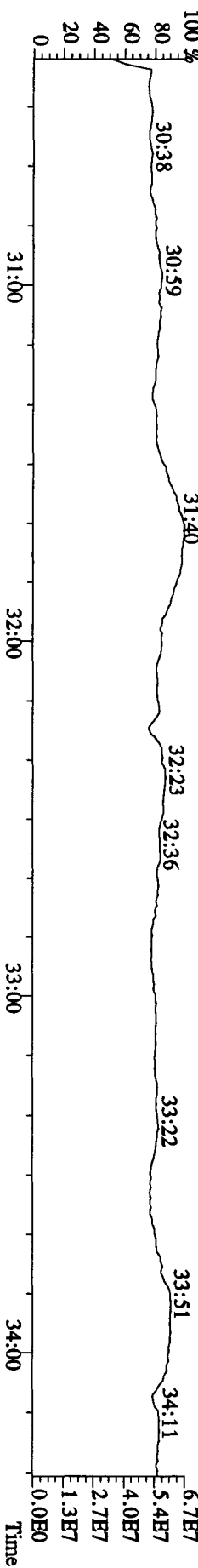
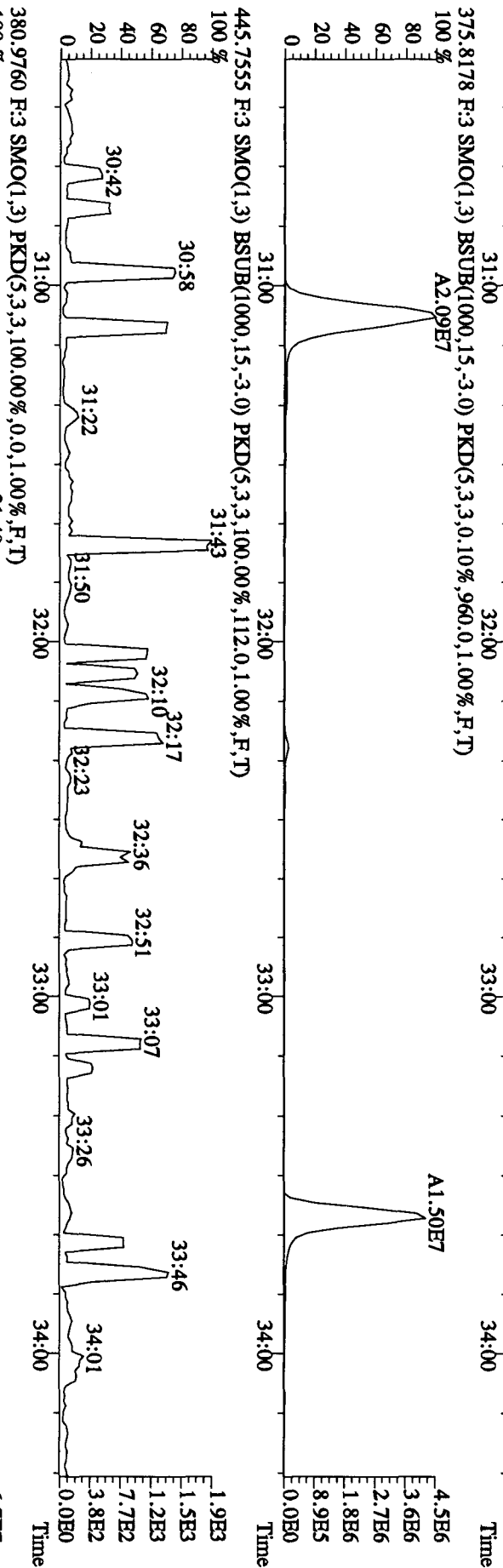
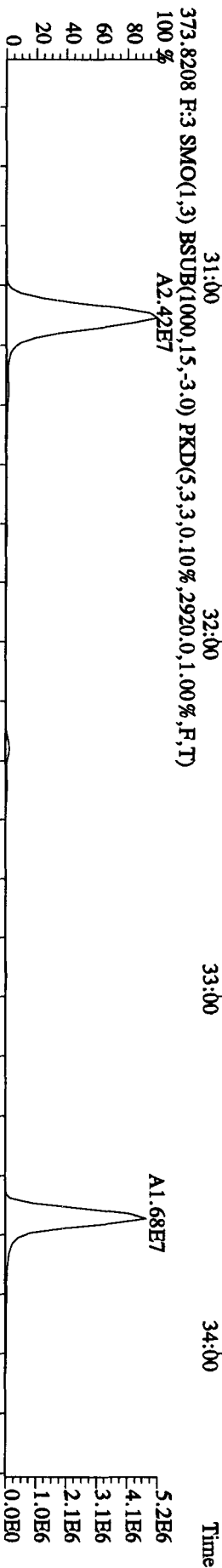


File:280C104D5 #1-530 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE

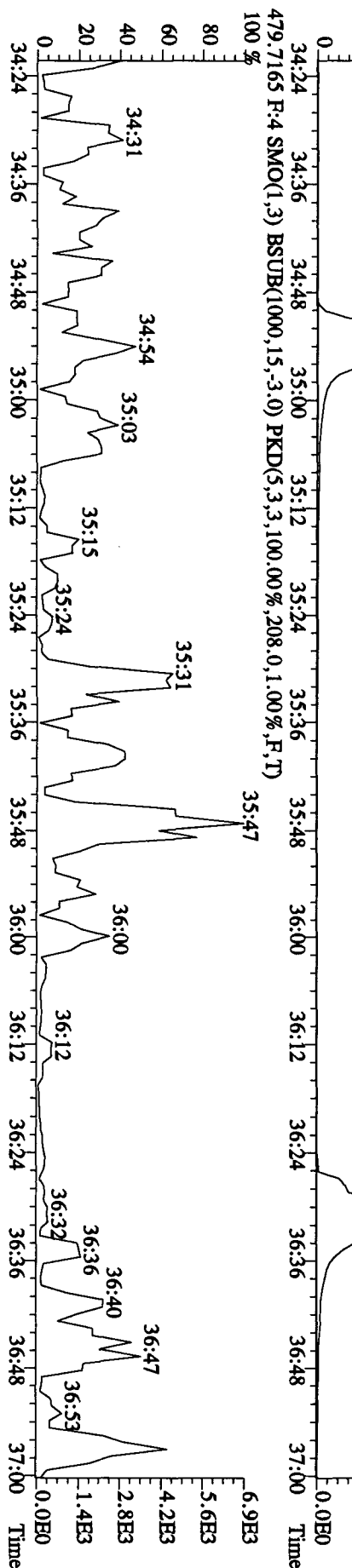
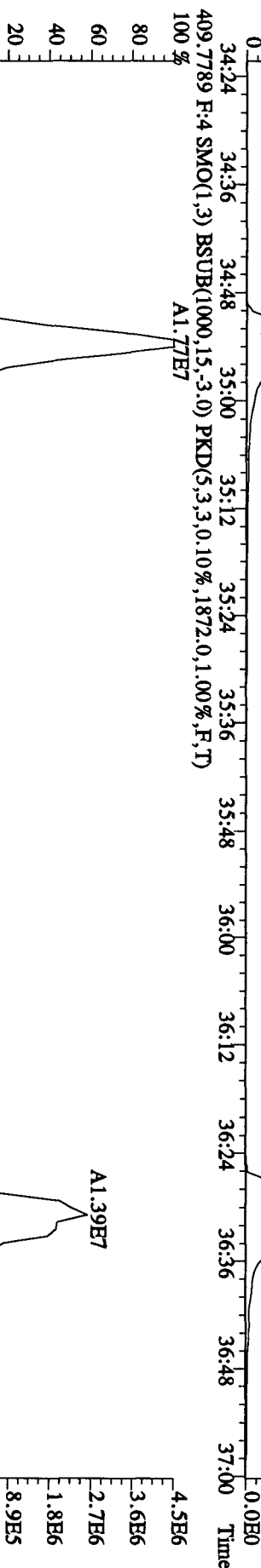
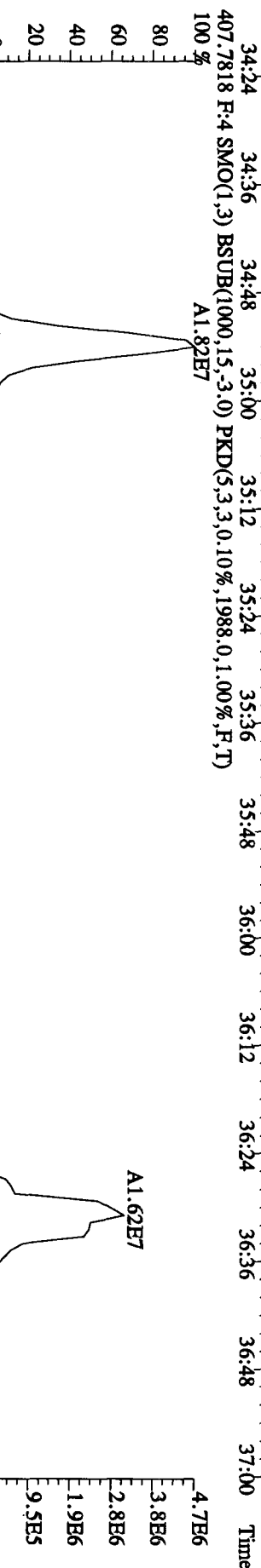
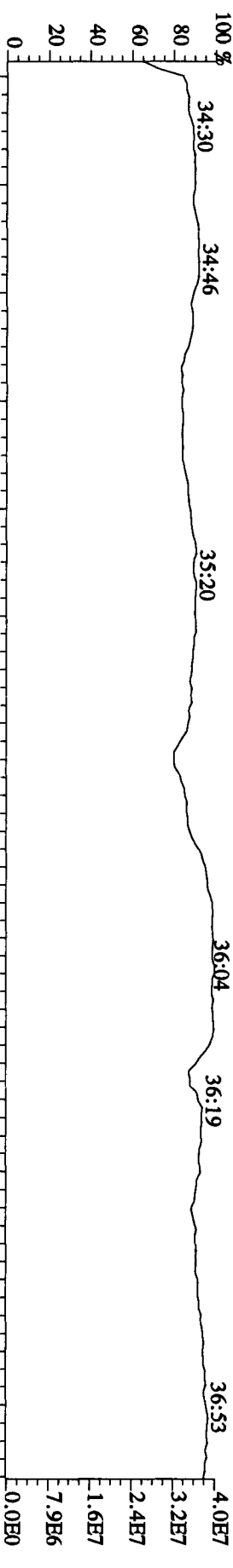
Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES



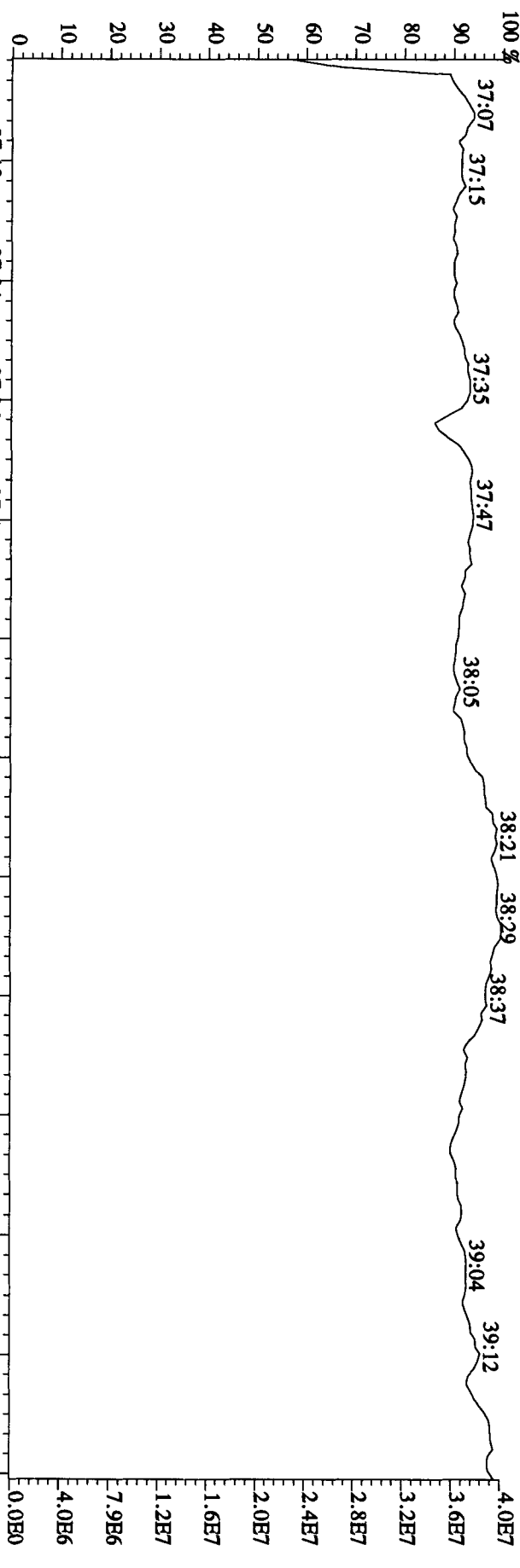




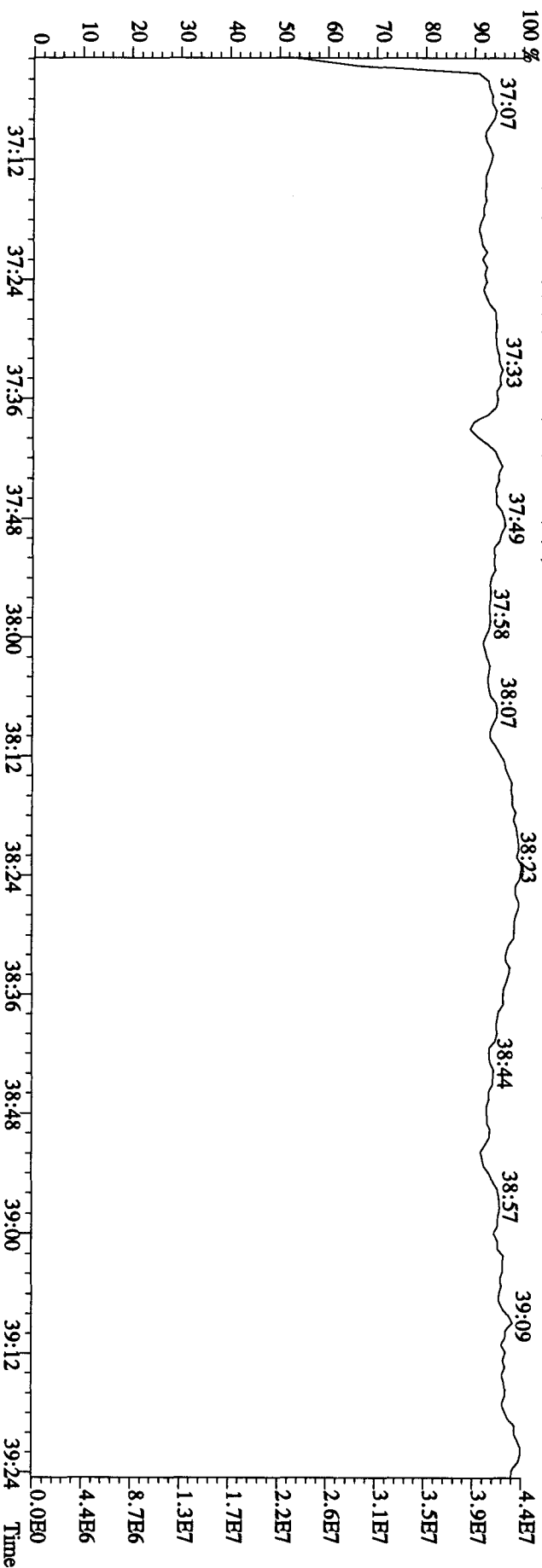
File:280C104D5 #1-200 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP1028 :DB-5 C/PSM 3732-10 Exp:DIOXINRES
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



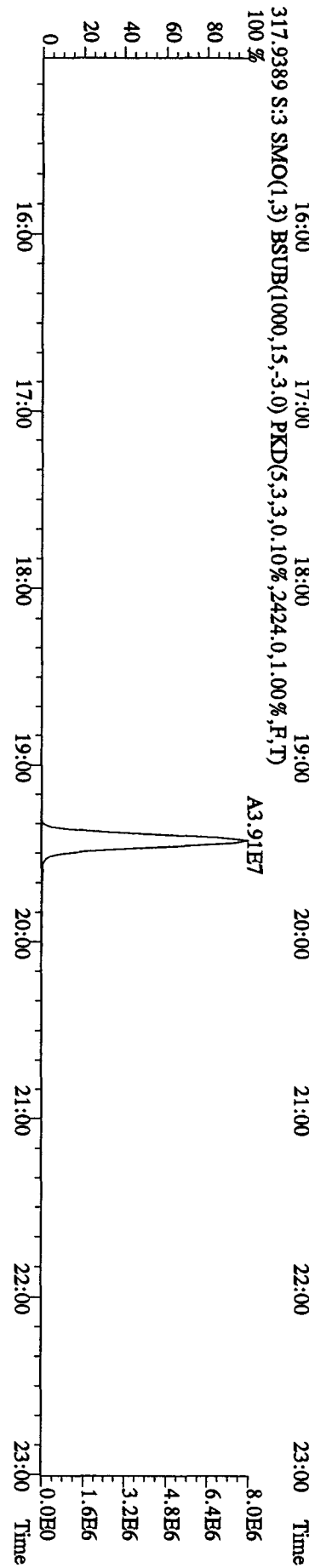
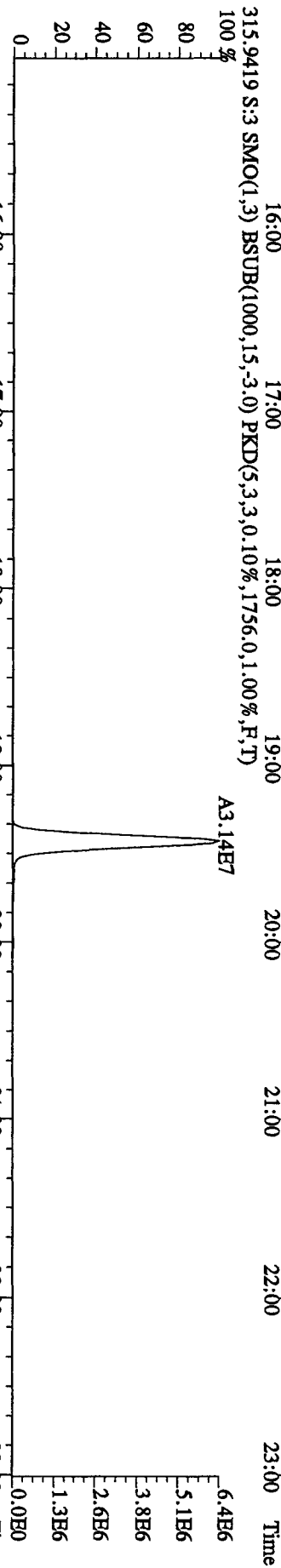
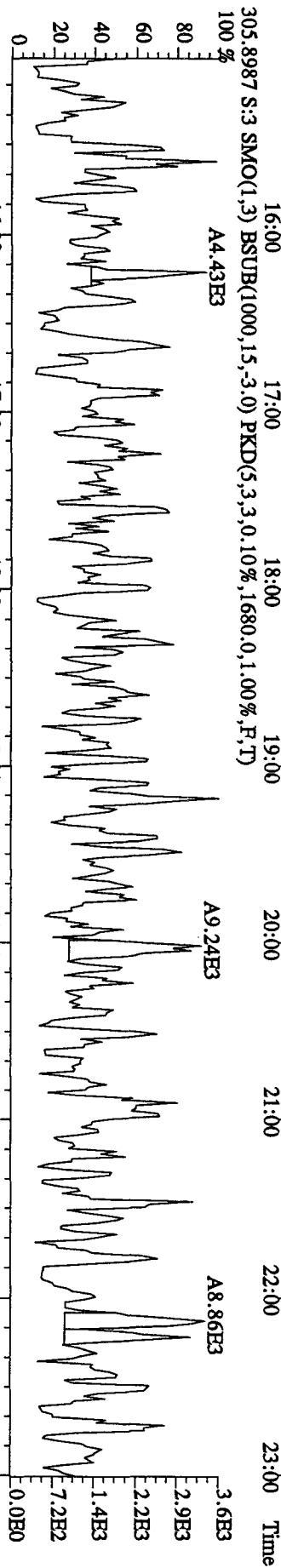
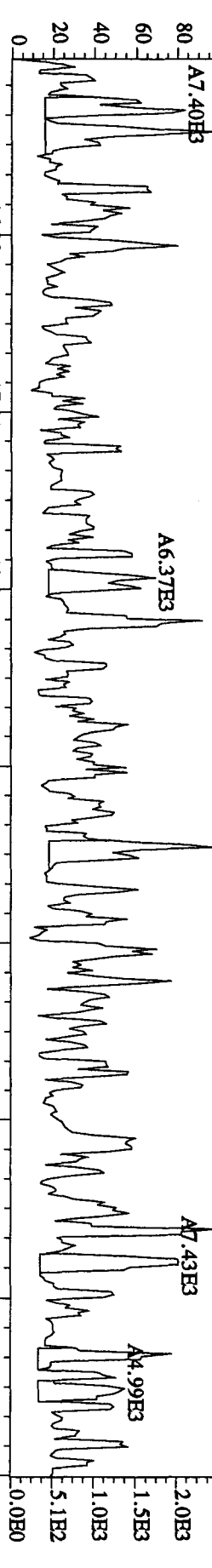
File:28OC104D5 #1-193 Acq:28-OCT-2010 09:36:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP1028 :DB-5 CPSM 3732-10 Exp:DIOXINRES
 454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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



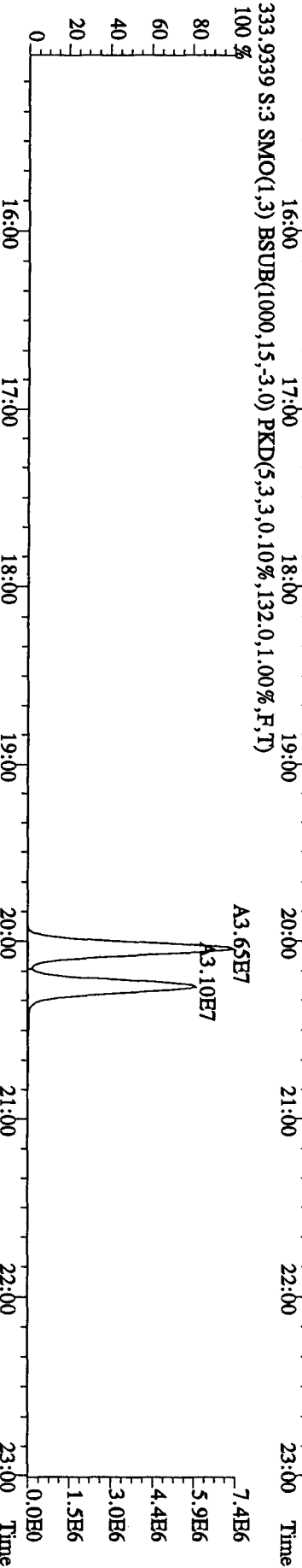
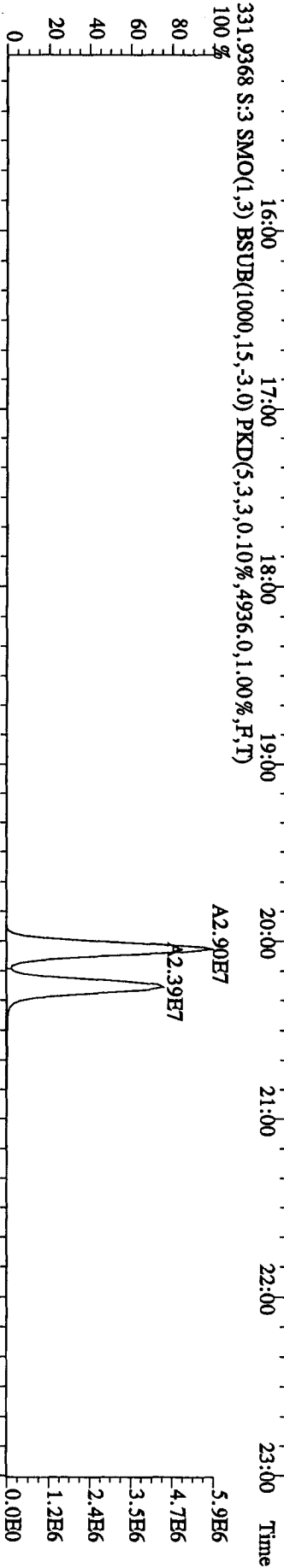
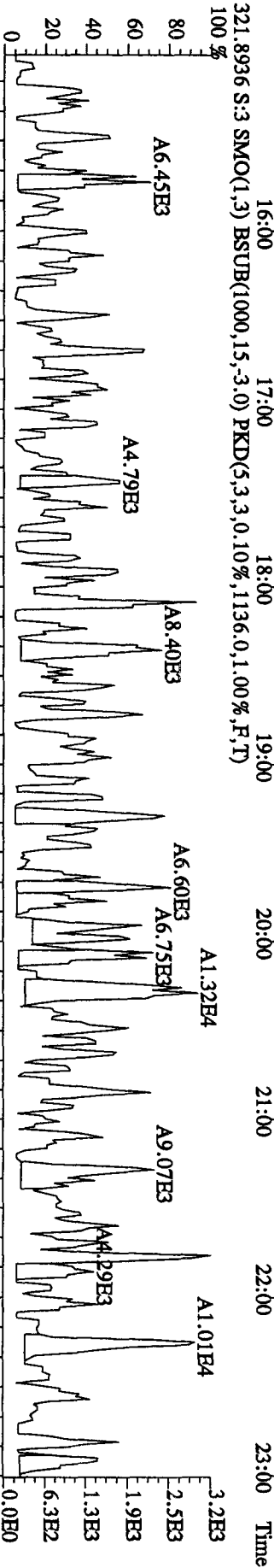
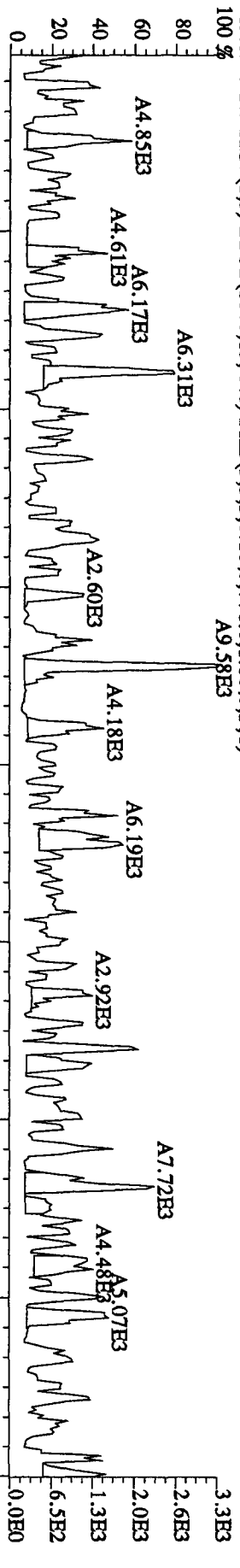
File:280C104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SFR Autospec-UltimaE
 Sample#3 Text:18Y09-1-AA :G0J210484-11MB Exp:DIOXINRES
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,888.0,1.00%,F,T)
 100% A8.17E3



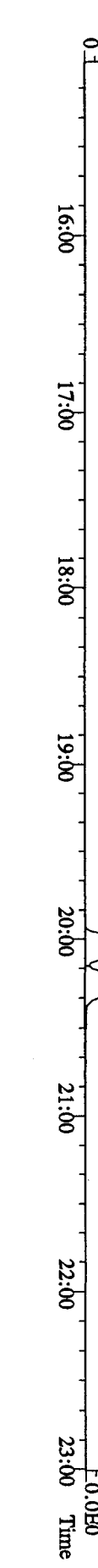
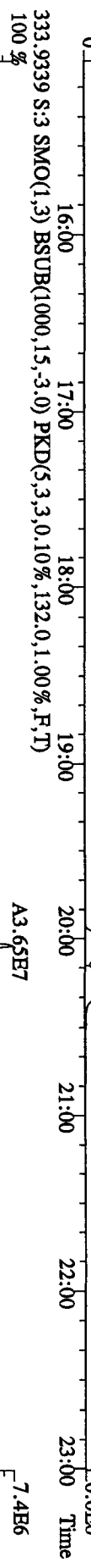
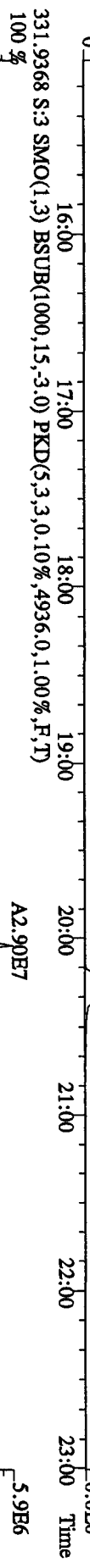
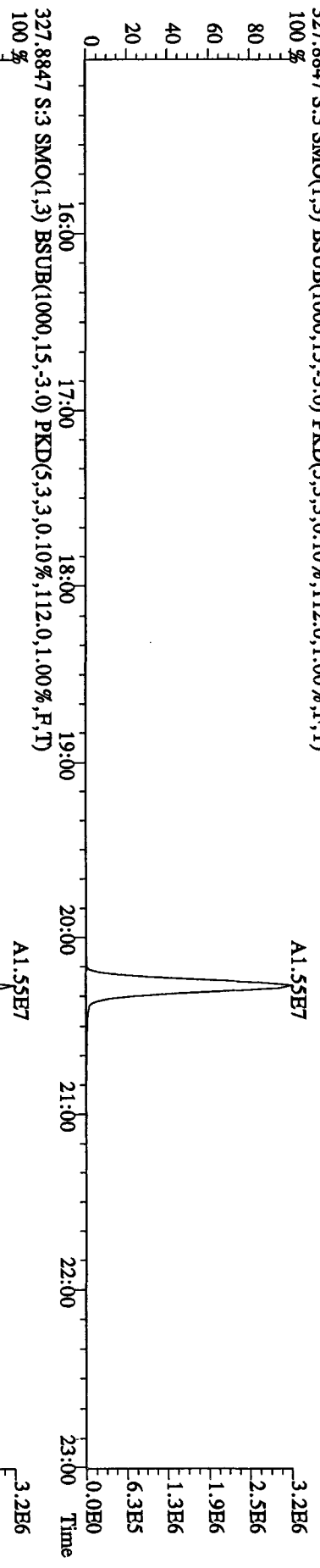
File:28OC104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

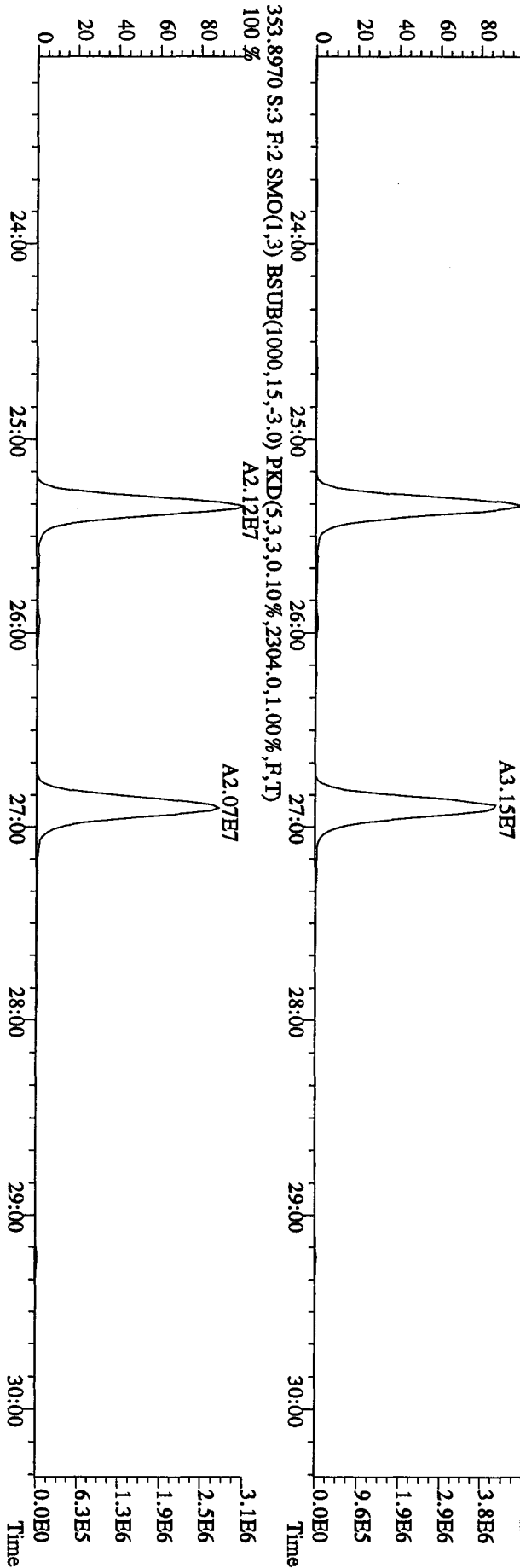
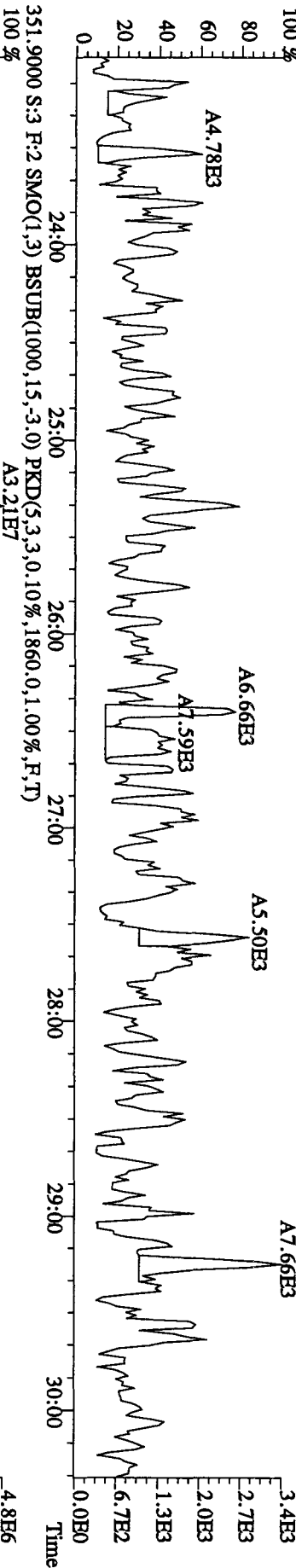
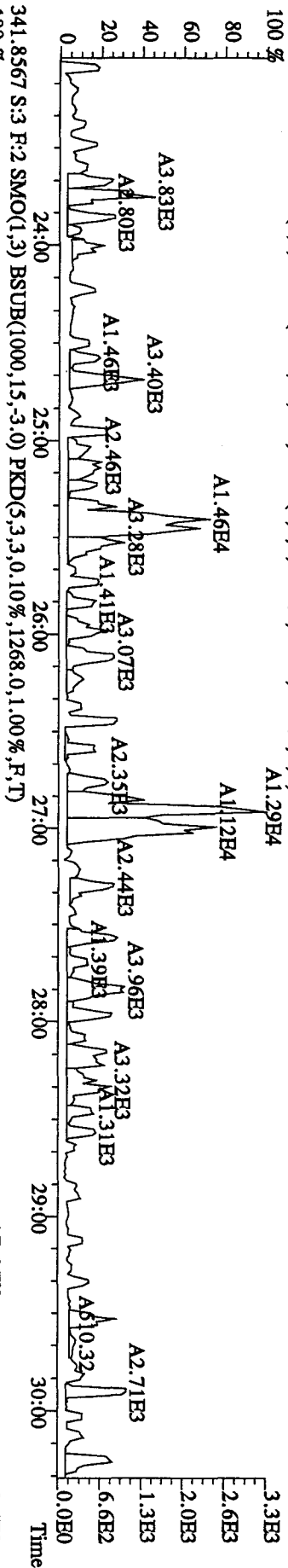
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.776,0.1,0.00%,F,T)



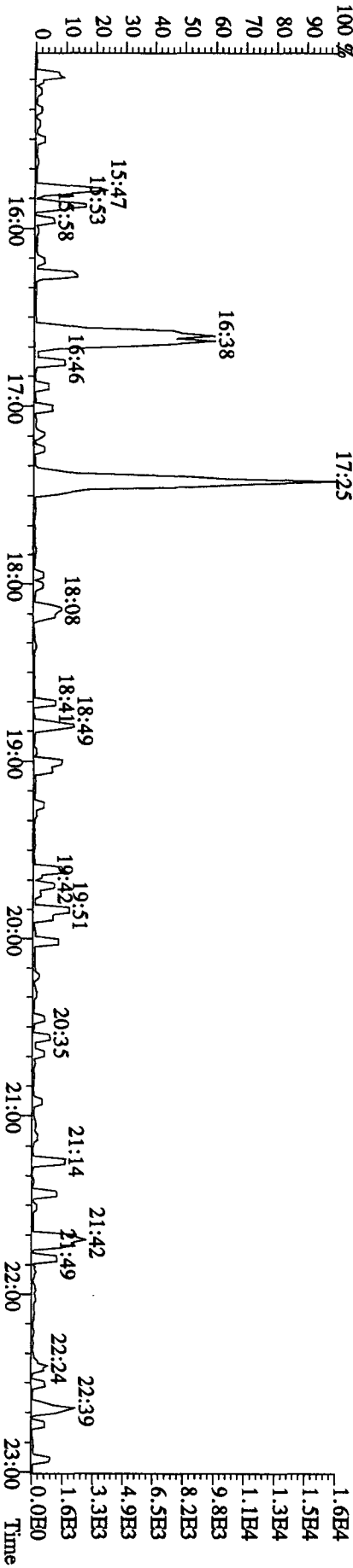
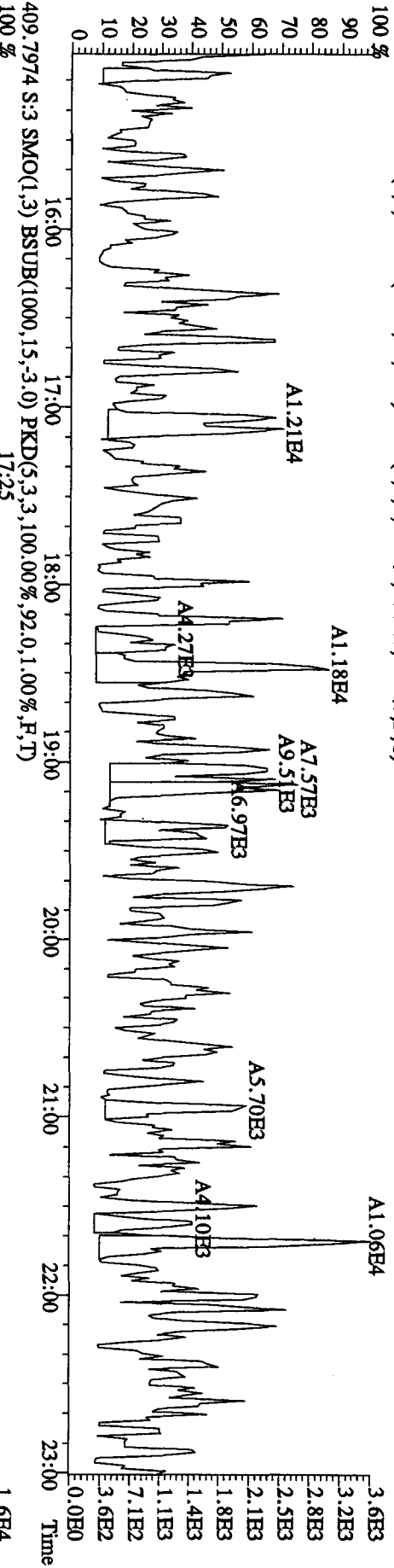
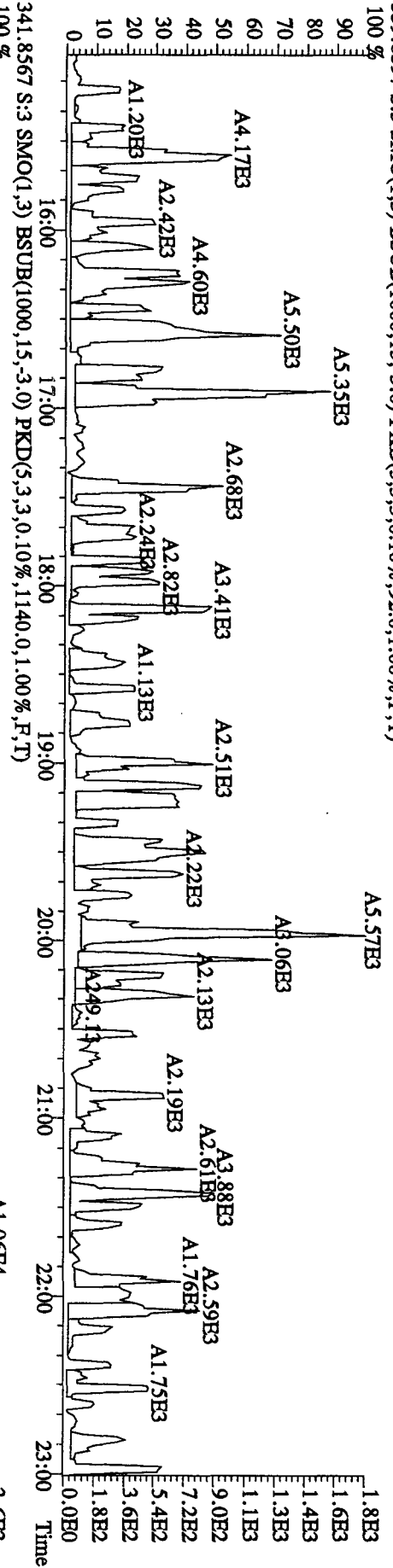
File: 28OC104D5 #1-530 Acq: 28-OCT-2010 11:06:06 GC FI+ Voltage SDR Autospec-UltimaB
 Sample#3 Text: L8V09-1-AA :G01210484-11MB Exp: DIOXINRES
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)
 100%



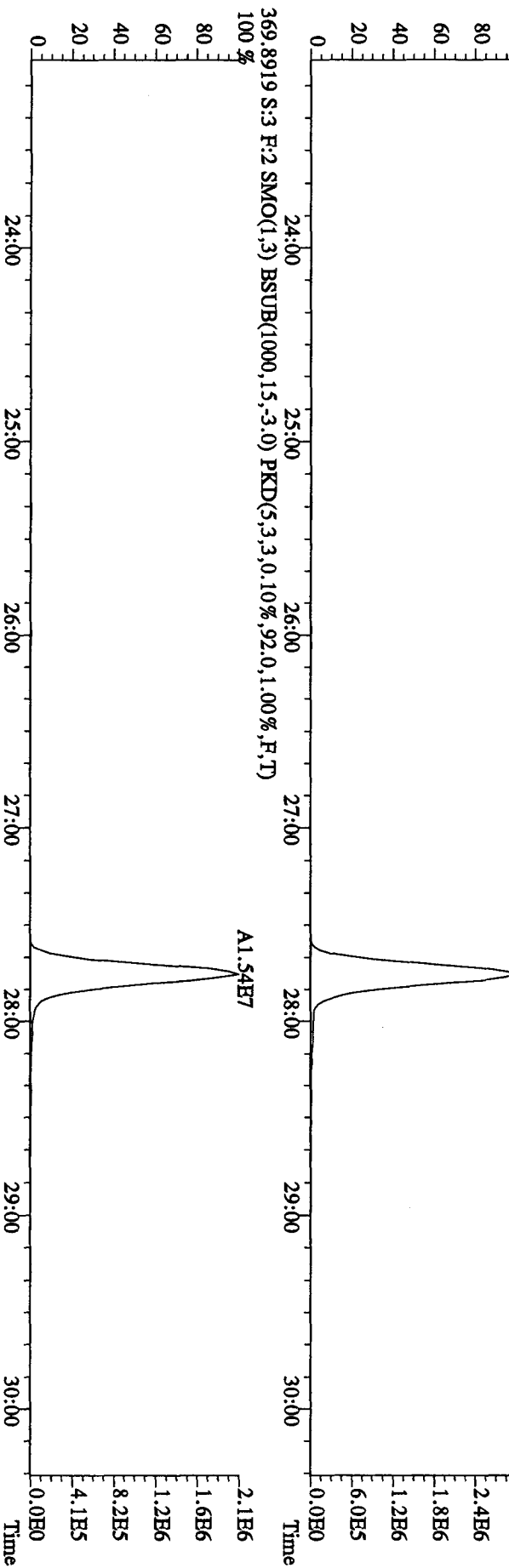
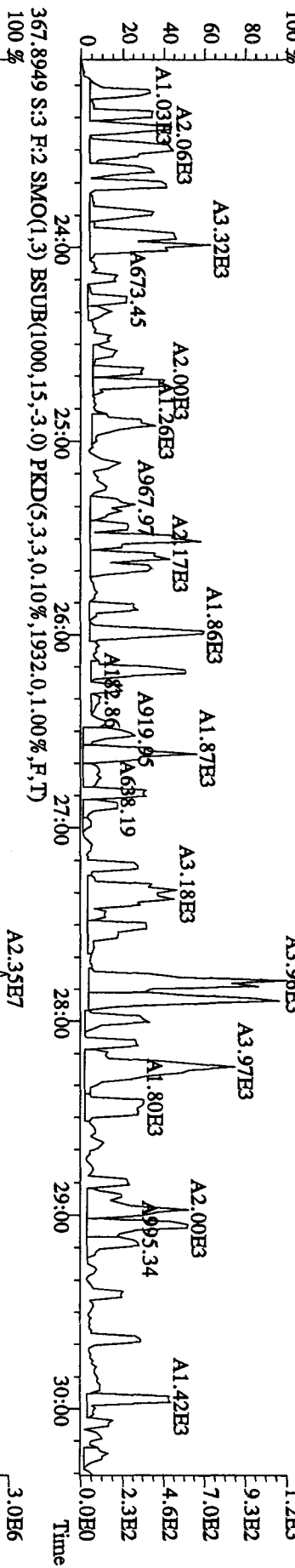
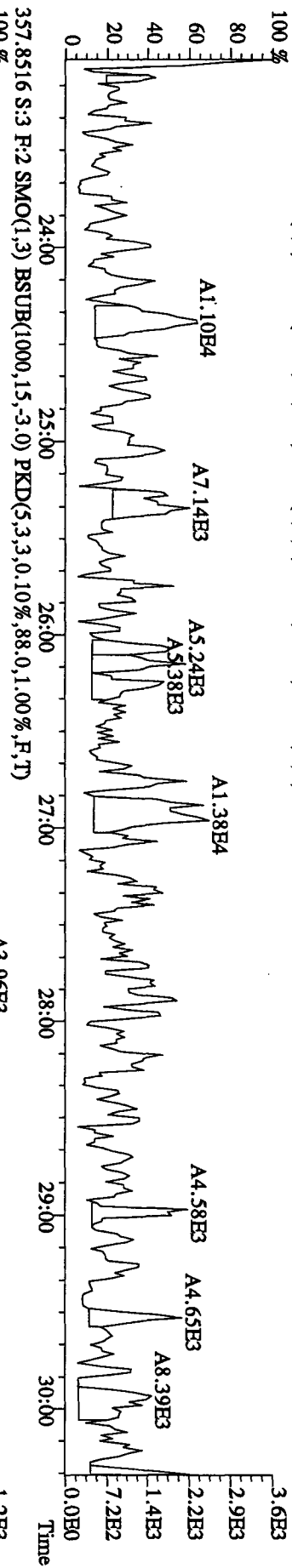
File:28OC104D5 #1-470 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage S1R Autospec-UltimaB
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,252.0,1.00%,F,T) A1.29B4



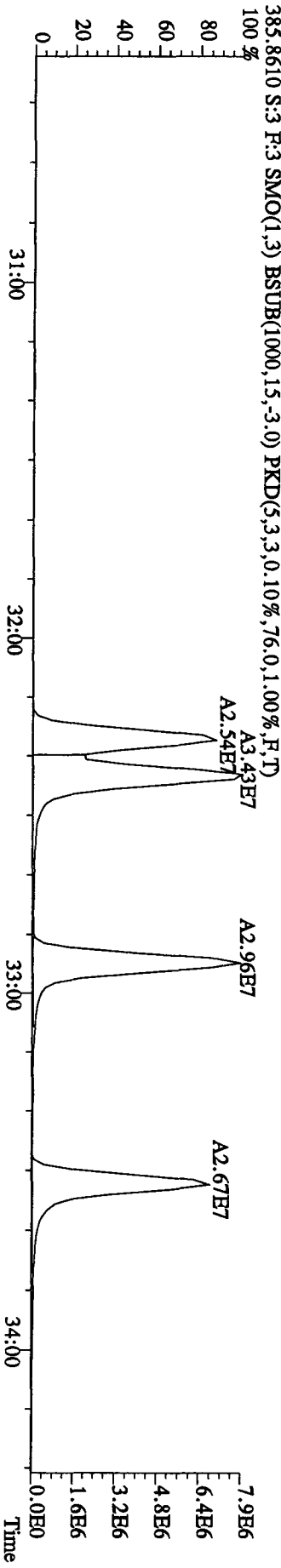
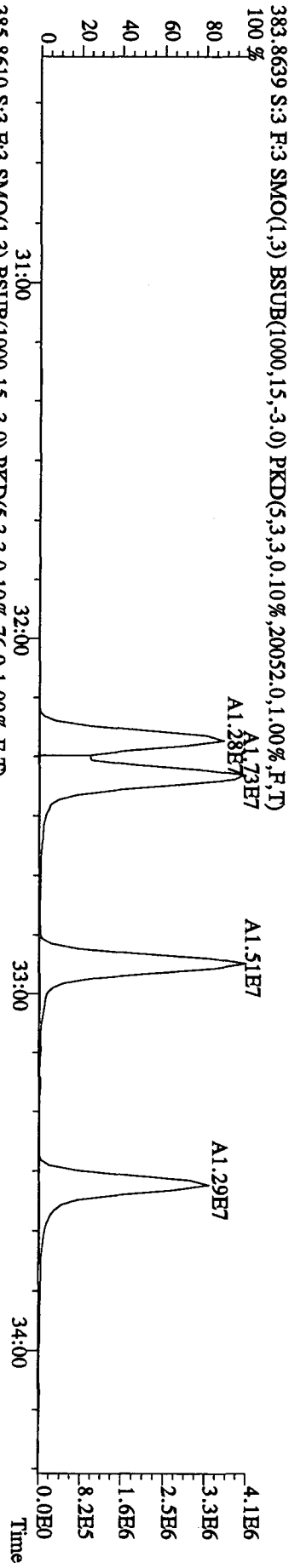
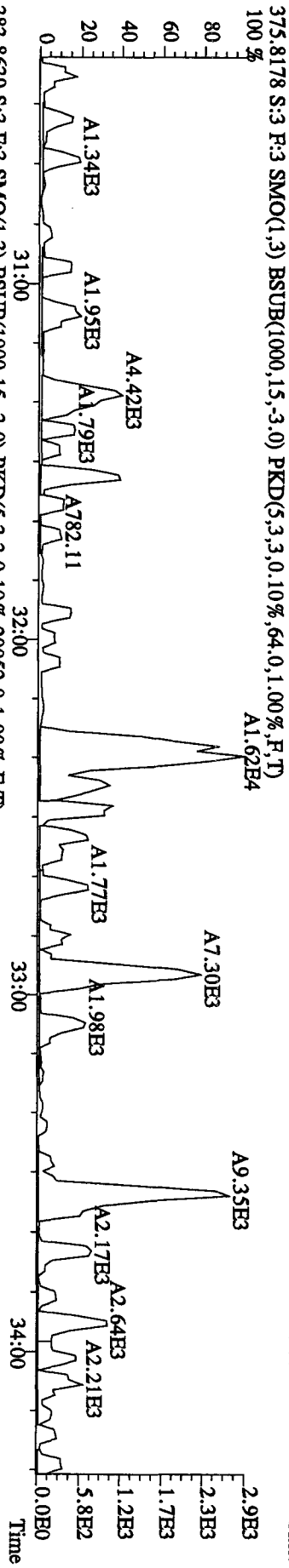
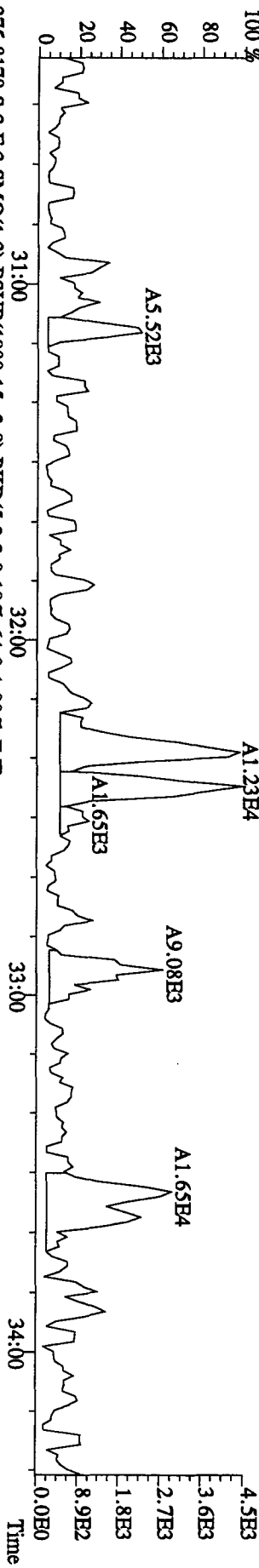
File:280C104D5 #1-530 Acq:28-OCT-2010 11:06:06 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



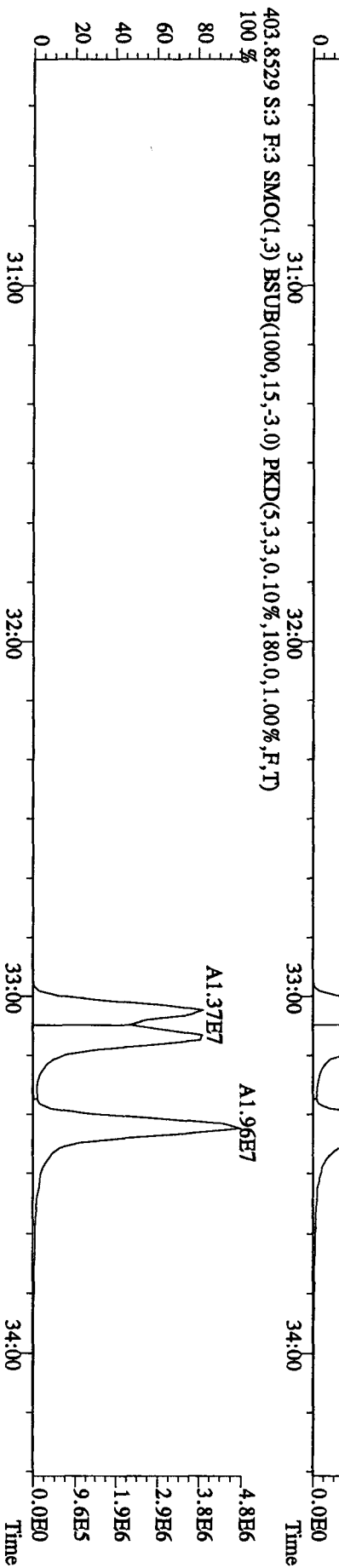
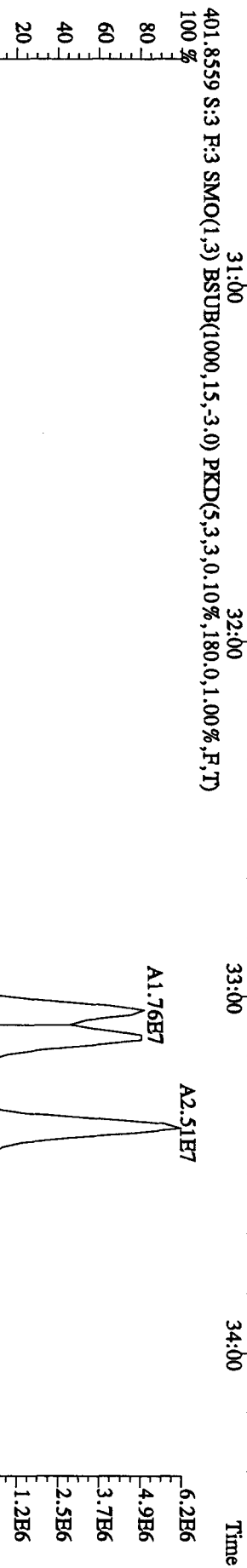
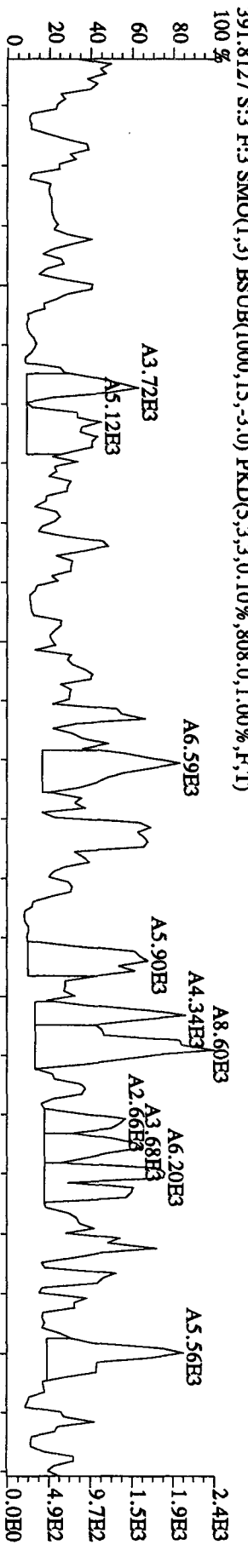
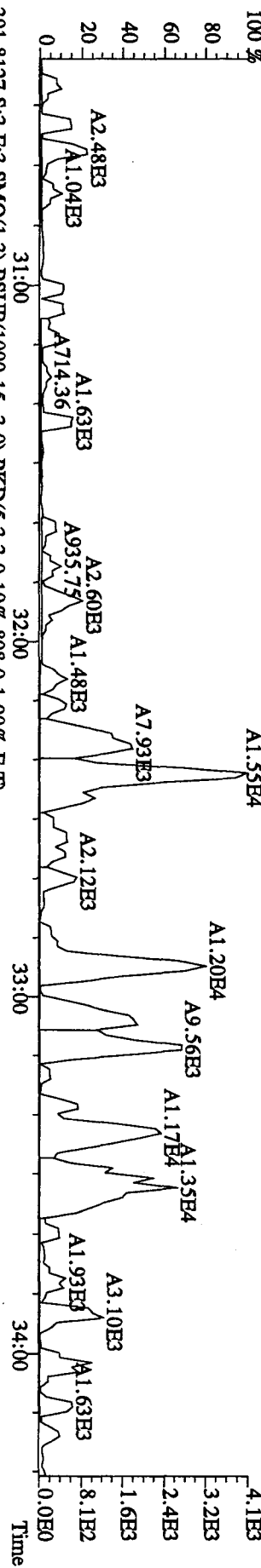
File:28OC104D5 #1-470 Acq:28-OCT-2010 11:06:06 GC HI+ Voltage SIR Autospec-Ultimah
 Sample#3 Text:18Y09-1-AA :G0J210484-1IMB Exp:DIOXINRES
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,920.0,1.00%,F,T)



File: 280C104D5 #1-287 Acq: 28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: L8Y09-1-AA :G0J210484-11MB Exp: DIOXINRES
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,616.0,1.00%,F,T)

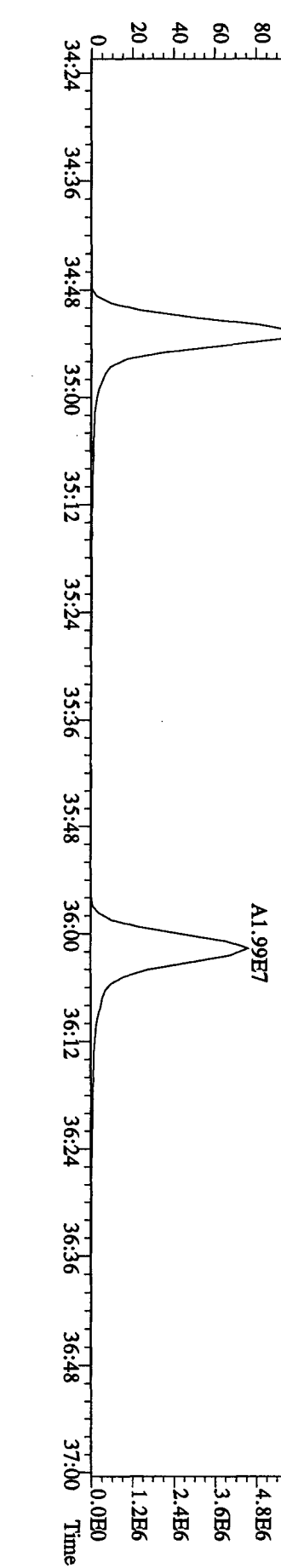
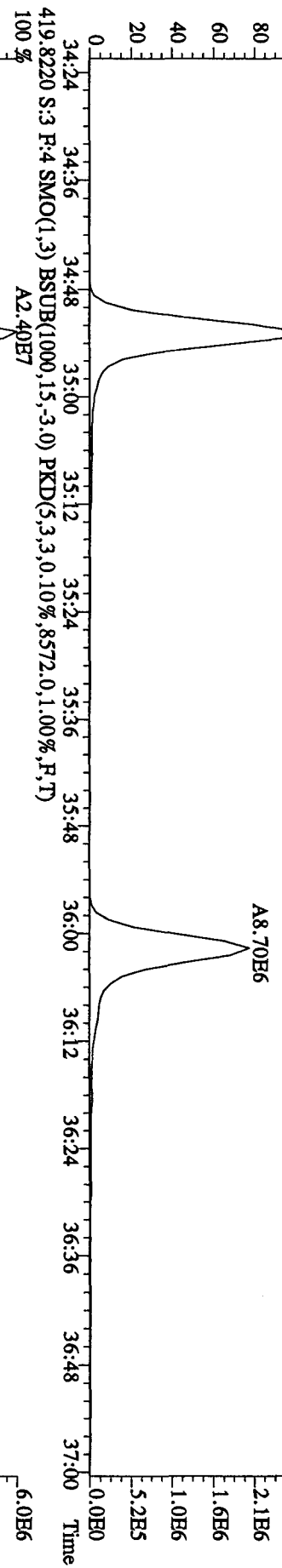
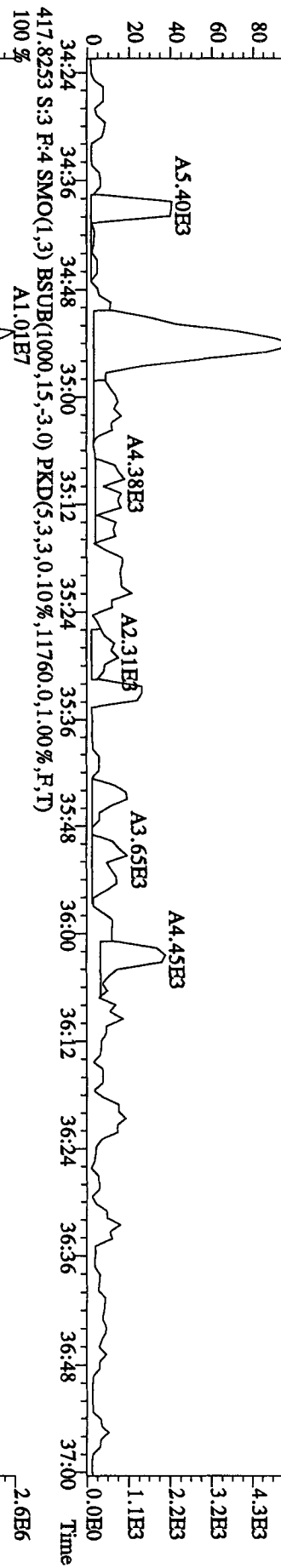
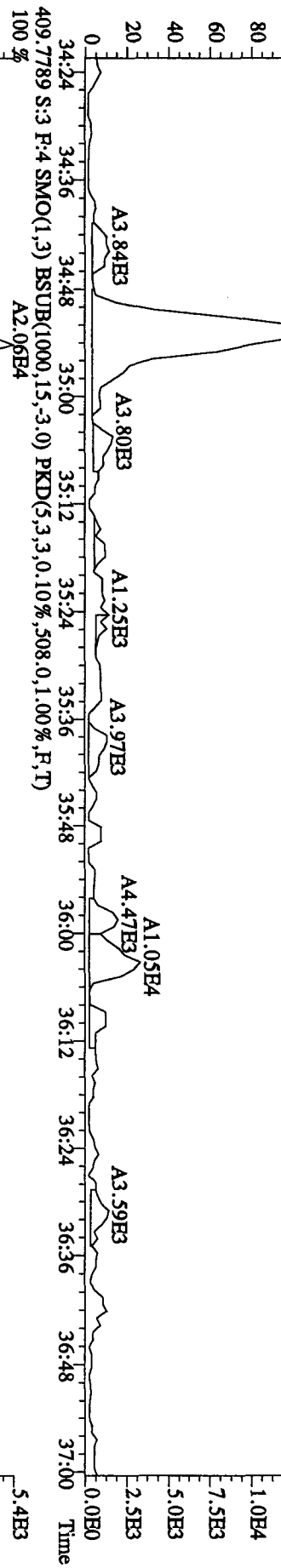


File:28OC104D5 #1-287 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimeA
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T) A1.55E4



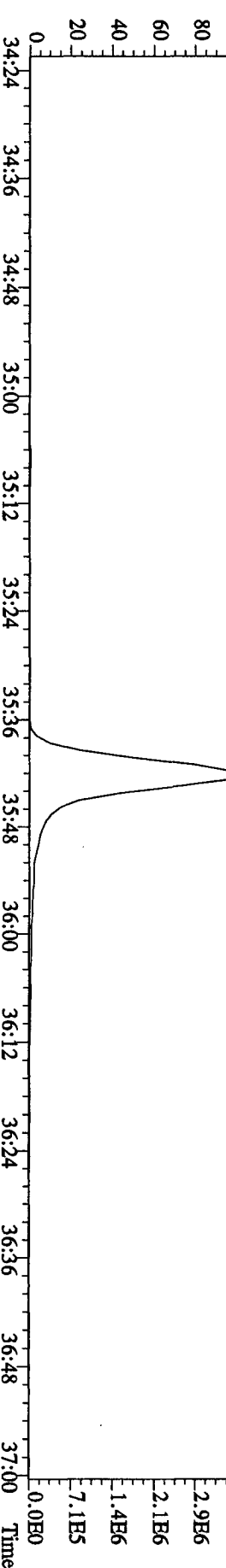
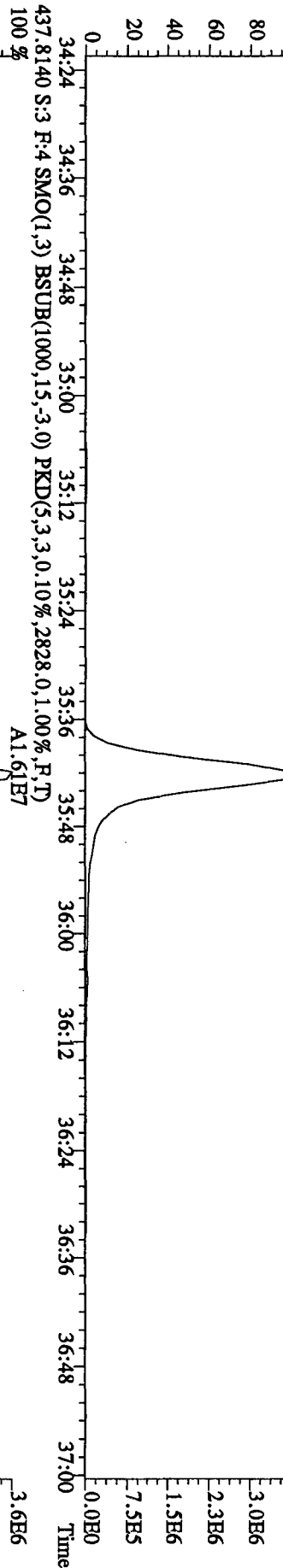
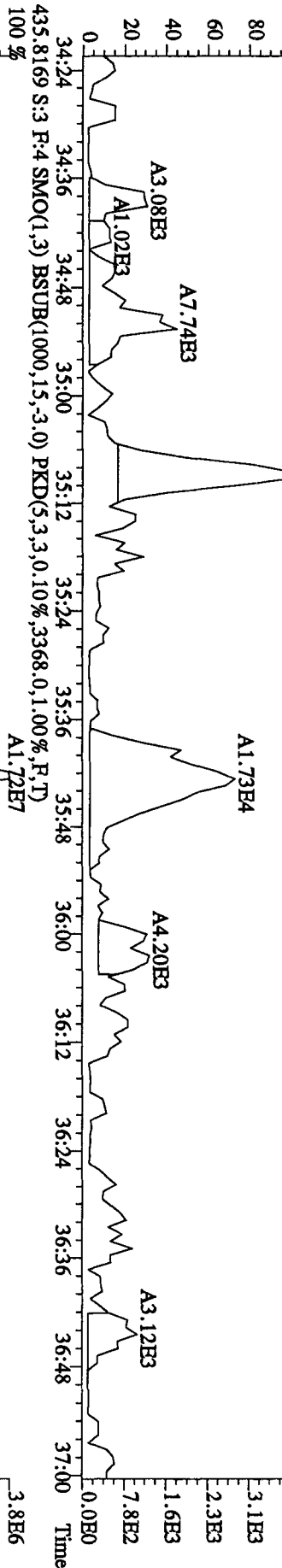
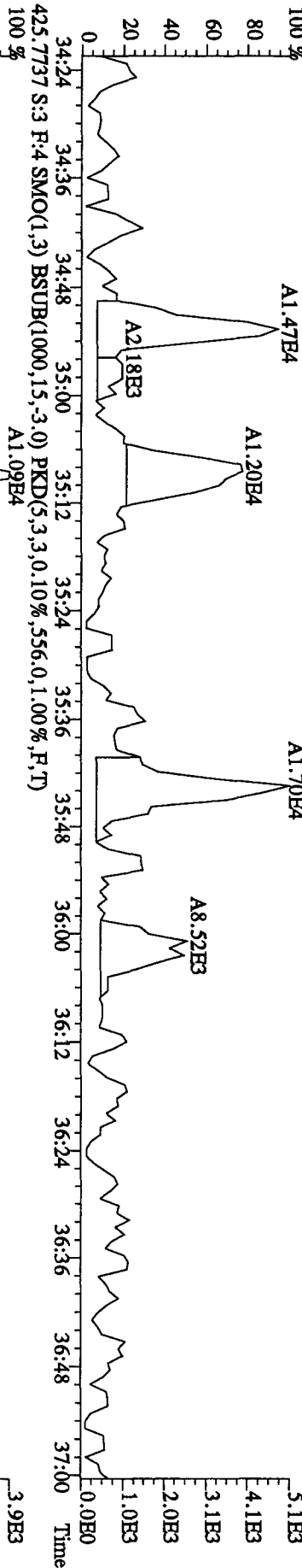
Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

407.7818 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,644.0,1.00%,F,T)

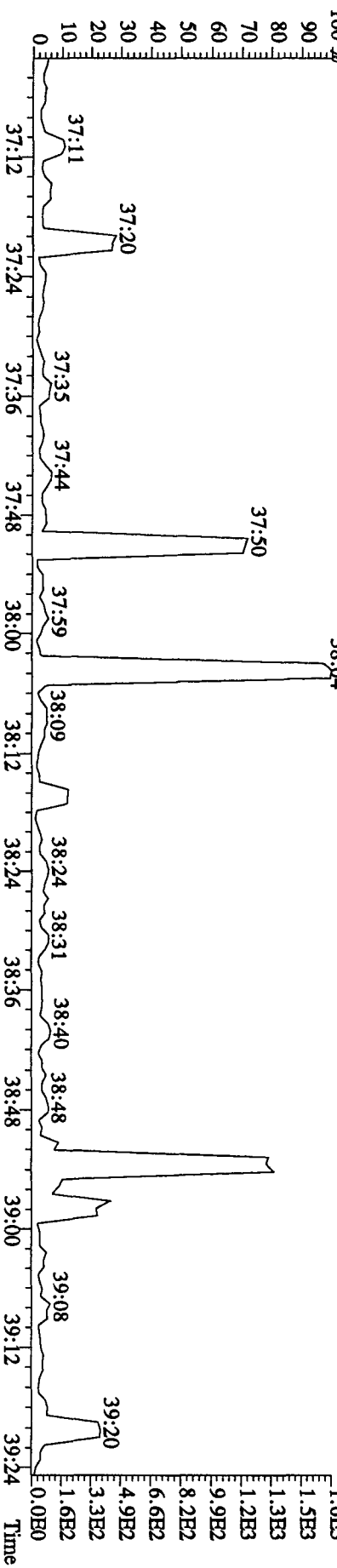
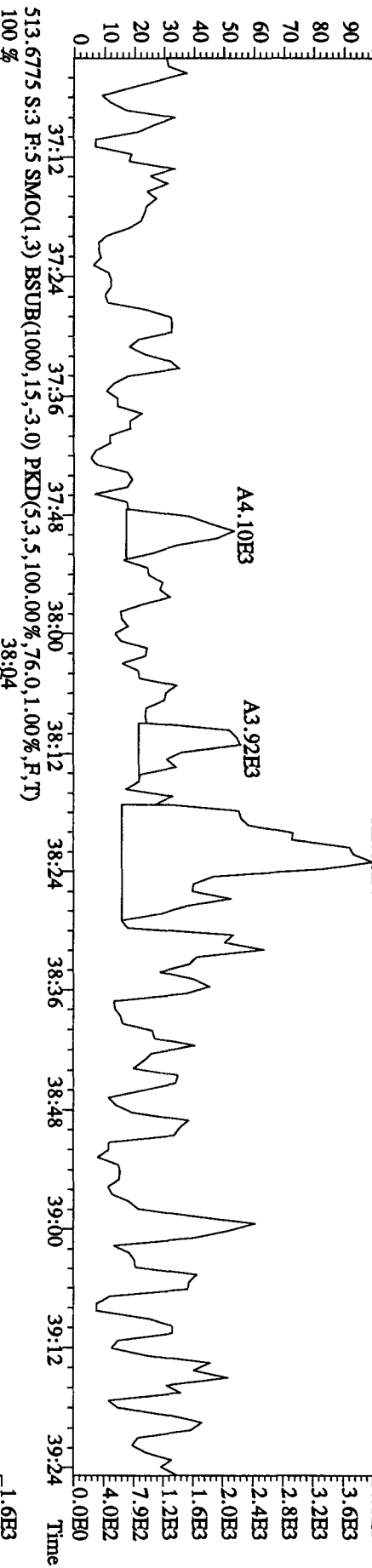
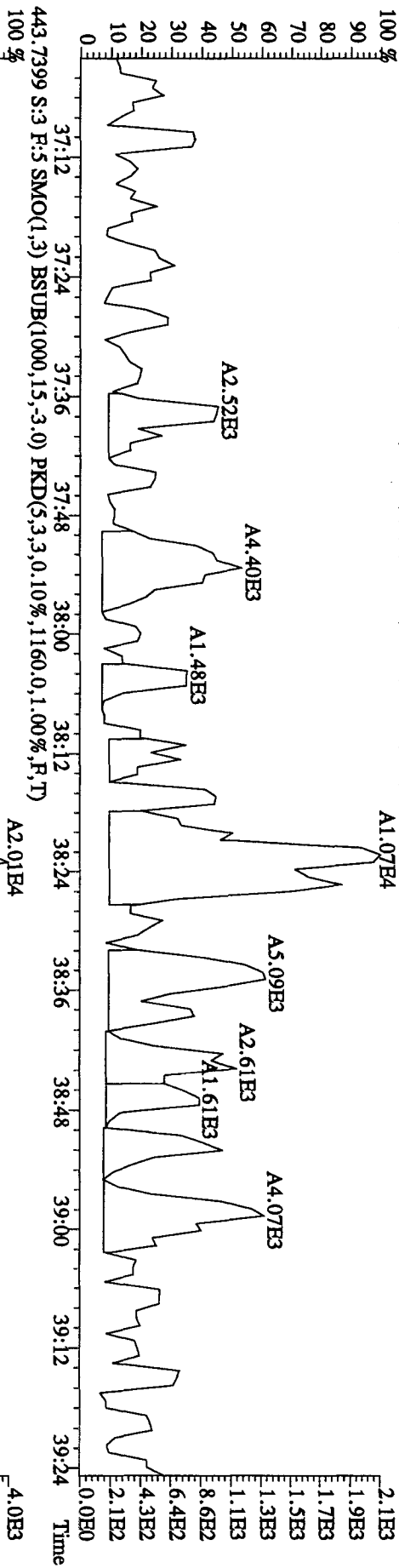


Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES

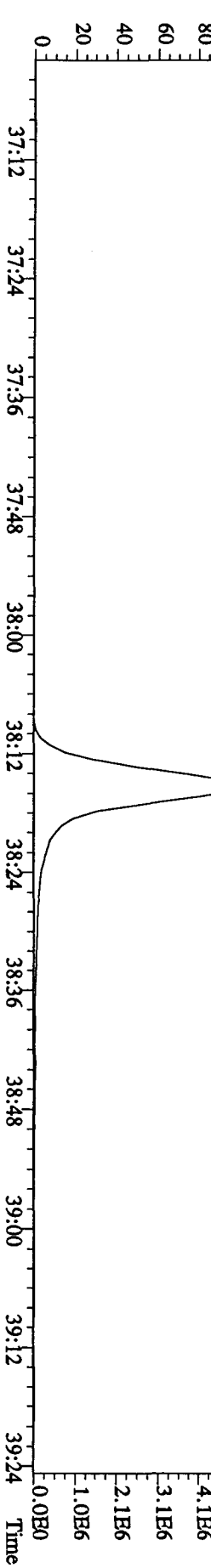
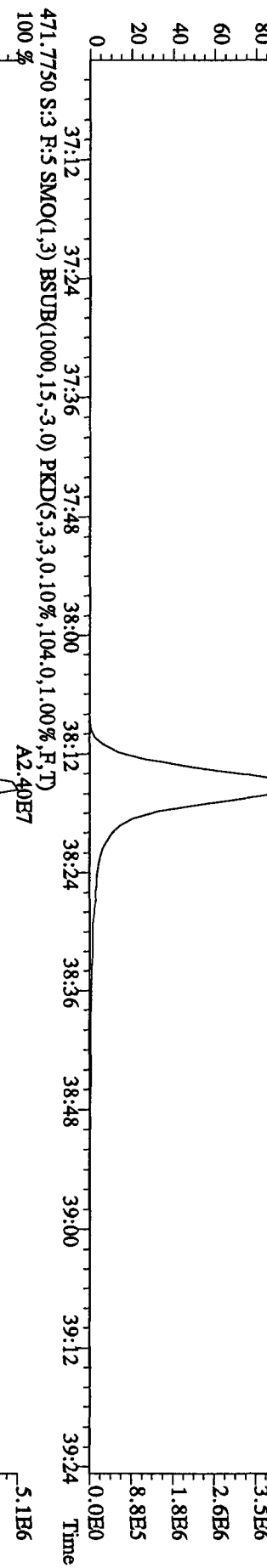
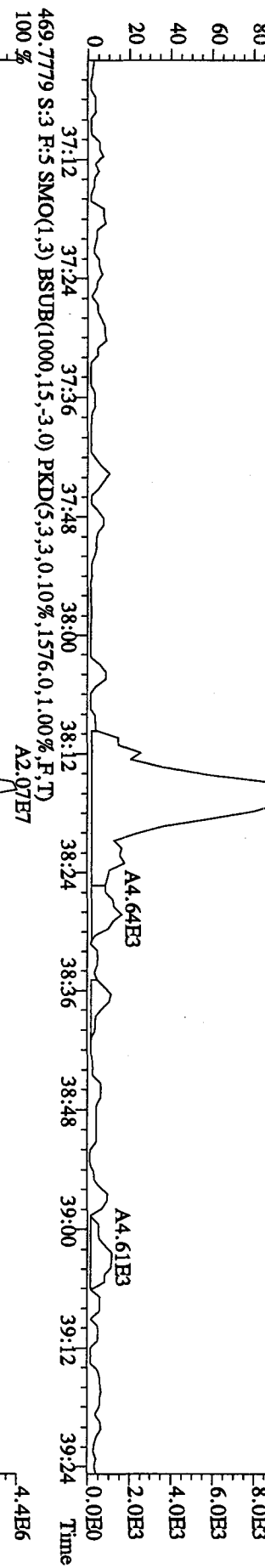
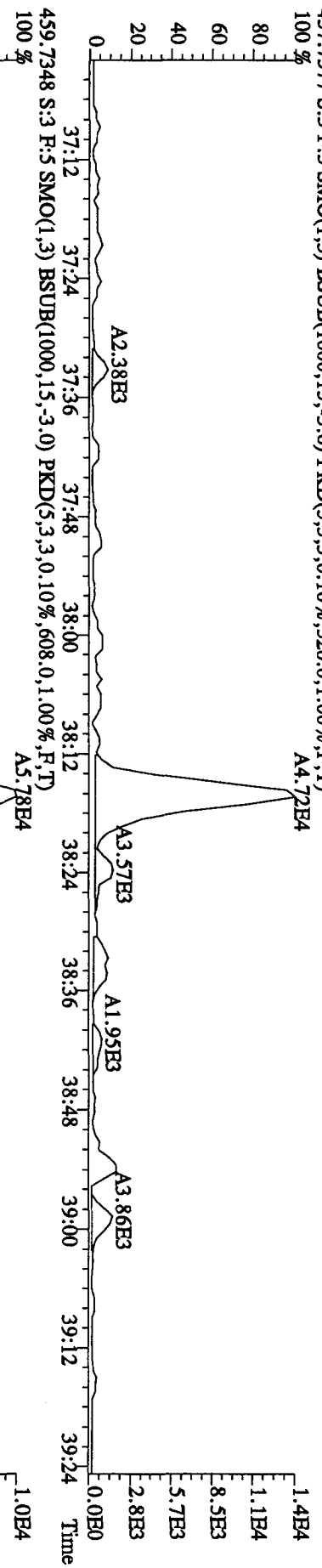
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1028.0,1.00%,F,T)

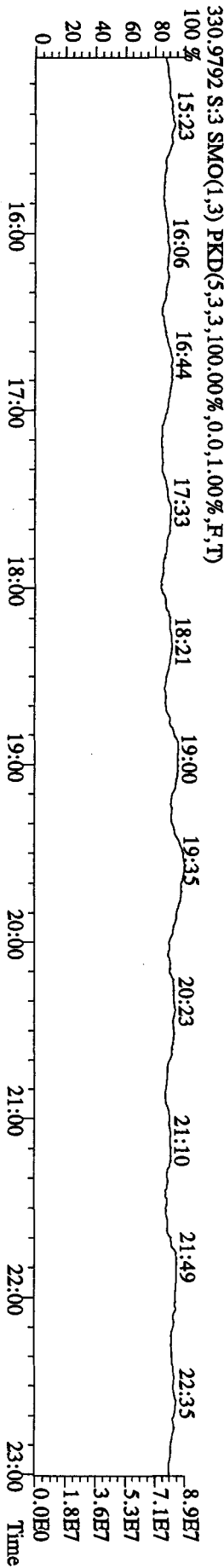
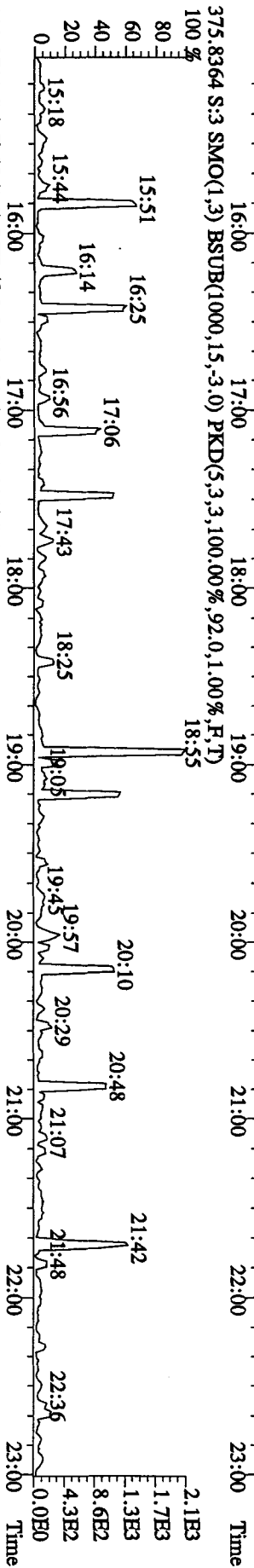
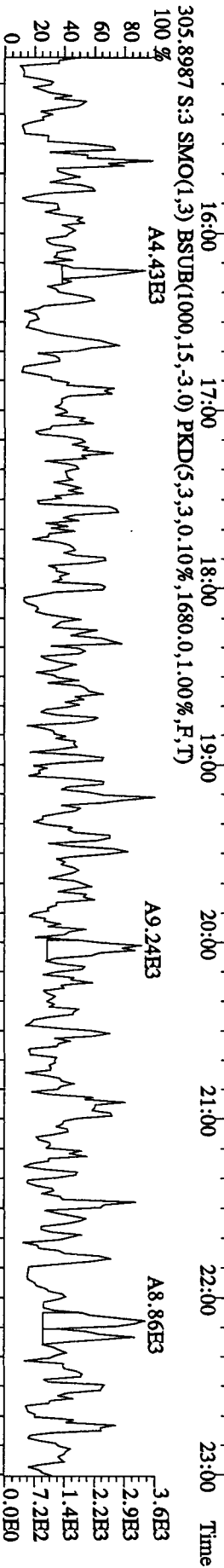
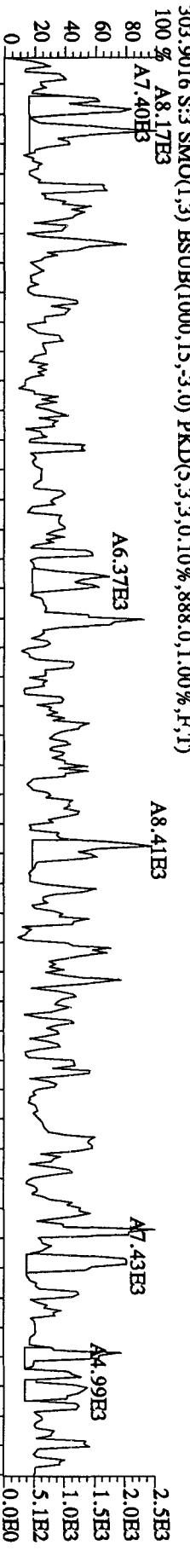
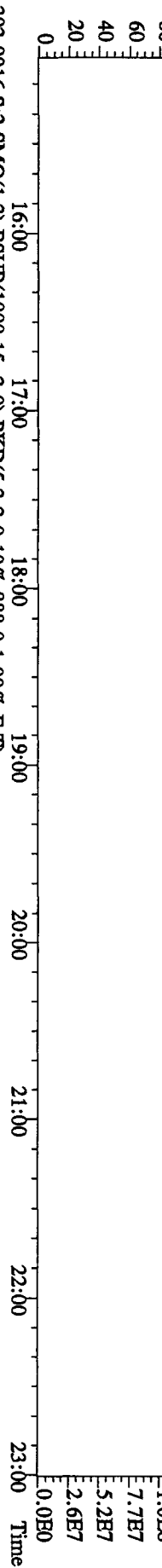


File:280C104D5 #1-193 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:18Y09-1-AA :G0J210484-11MB Exp:DIOXINRES
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,432.0,1.00%,F,T)

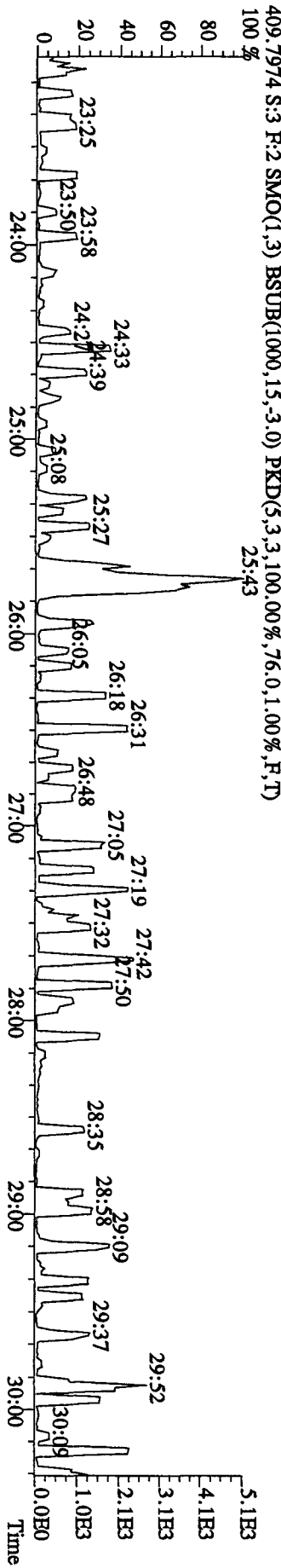
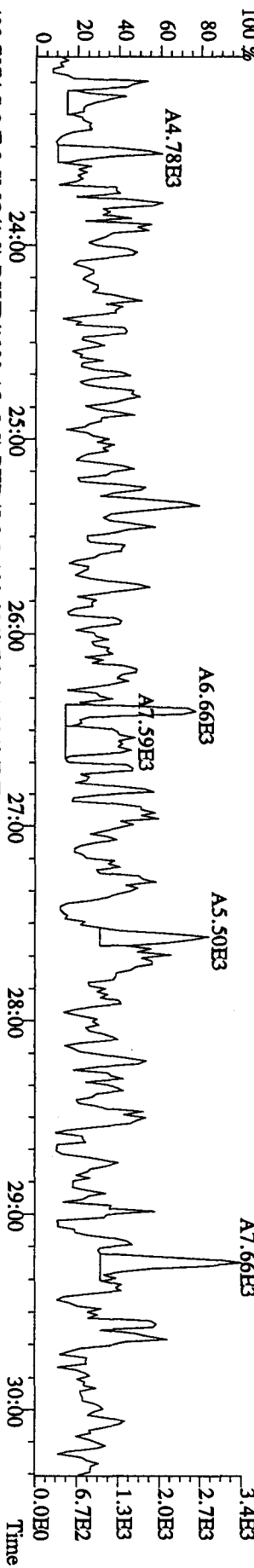
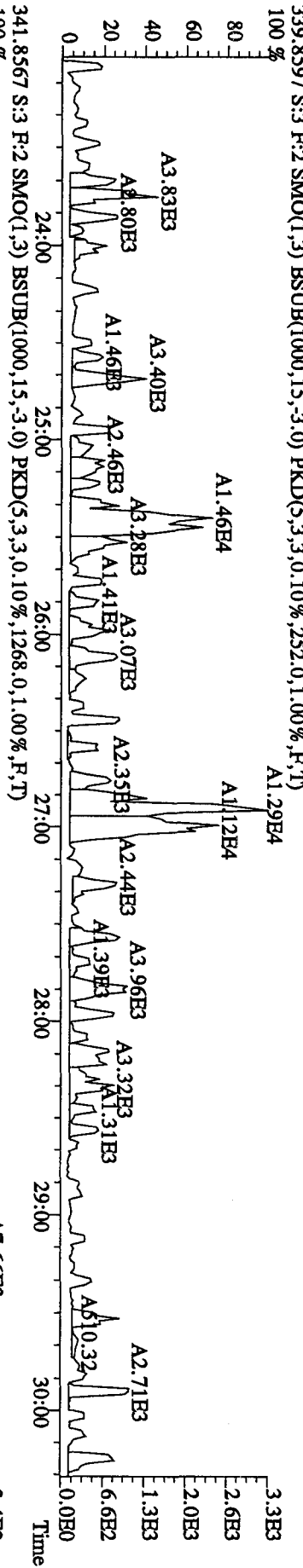
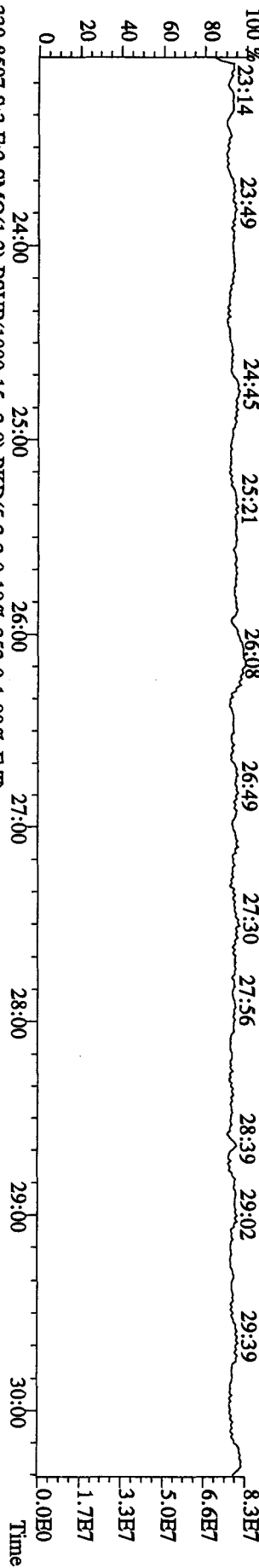


File: 28OC104D5 #1-193 Acq: 28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: L8V09-1-AA :G0J210484-11MB Exp: DIOXINRES
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,520.0,1.00%,F,T)
 100%

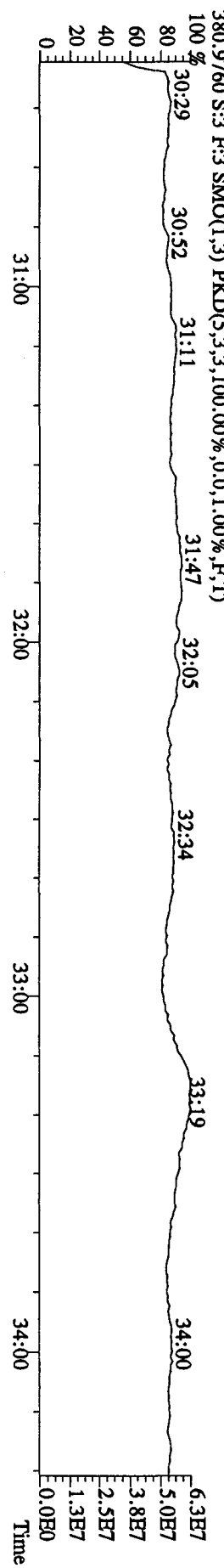
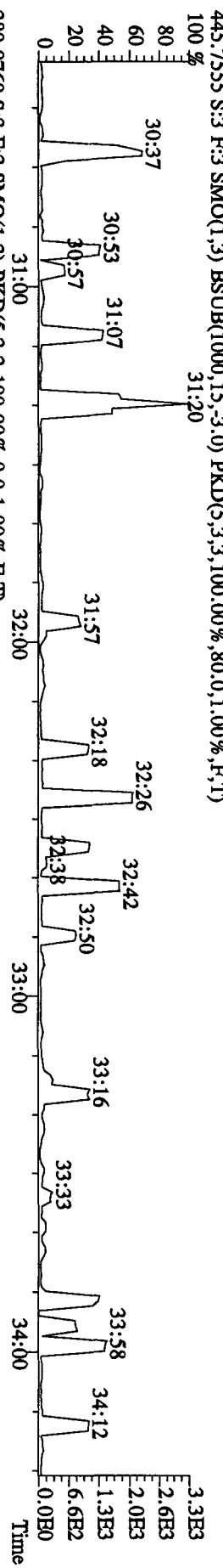
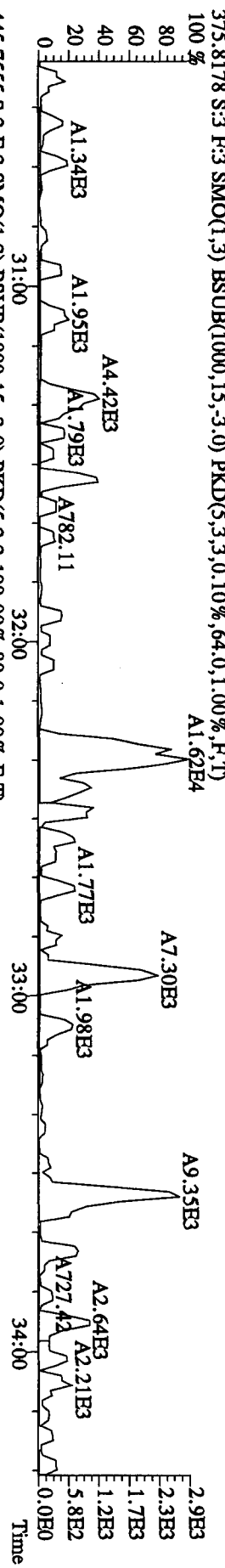
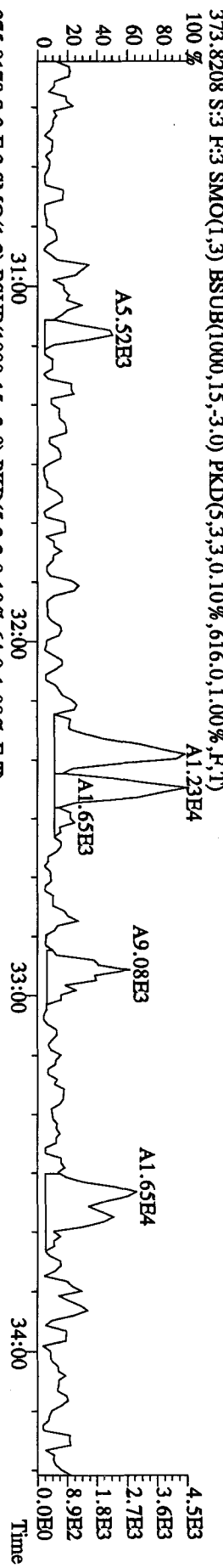
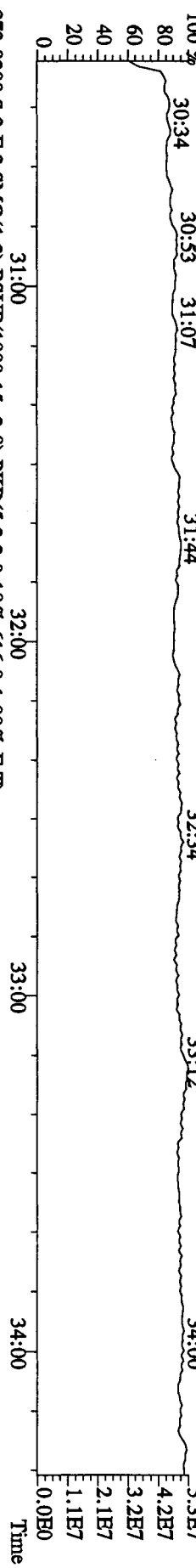


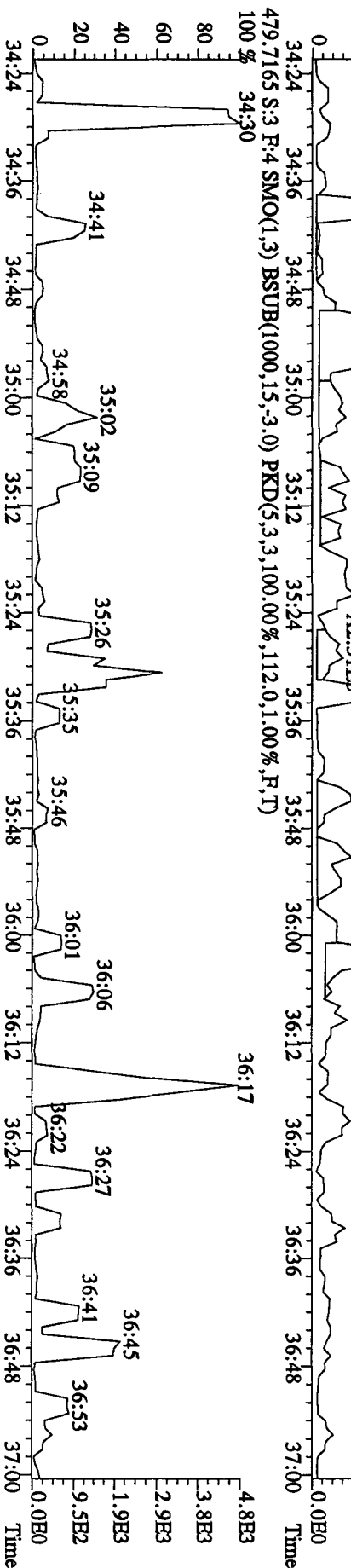
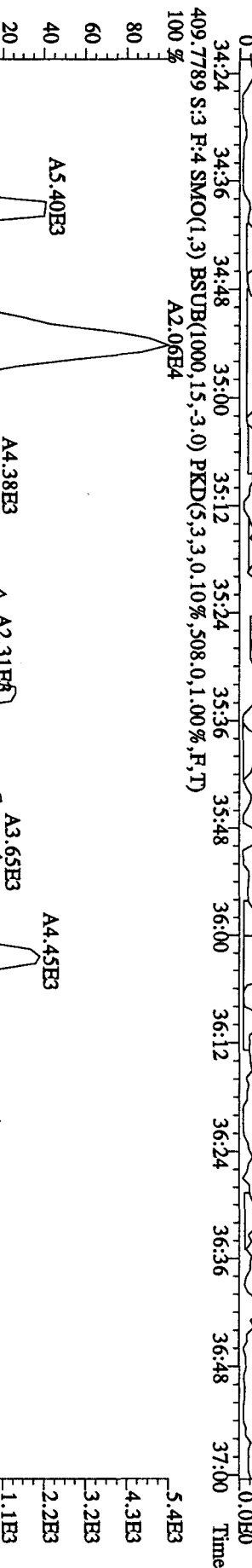
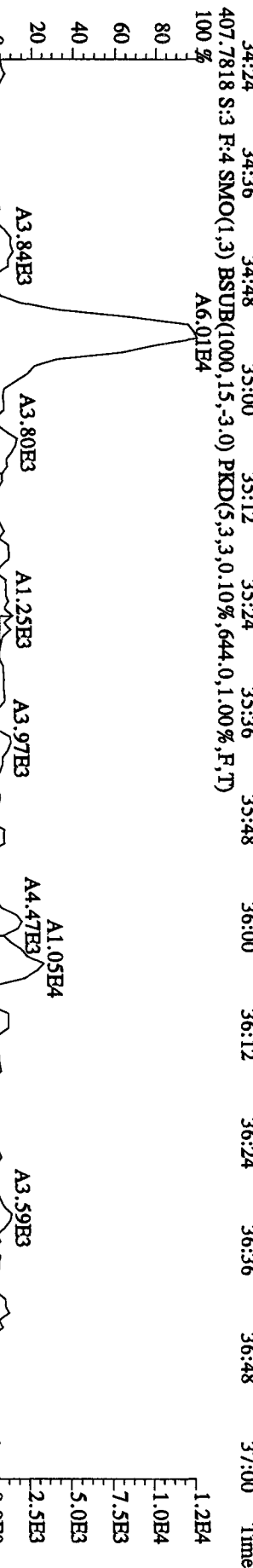
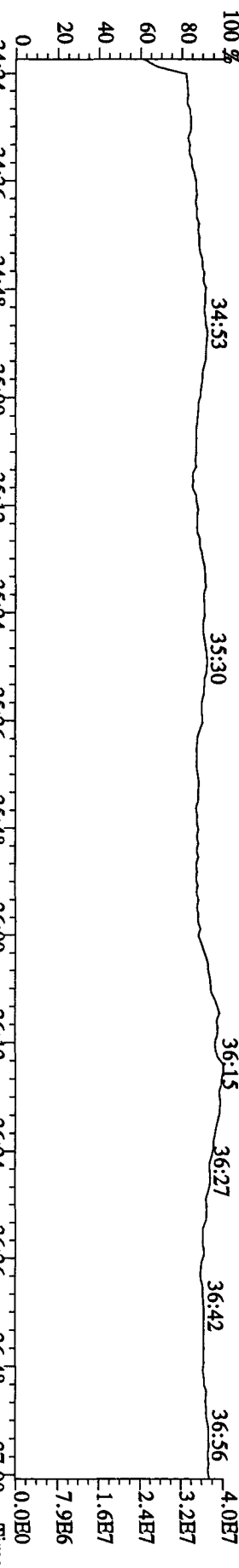


File:28OC104D5 #1-470 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 23:14 23:49 24:45 25:21 26:08 26:49 27:30 27:56 28:39 29:02 29:39

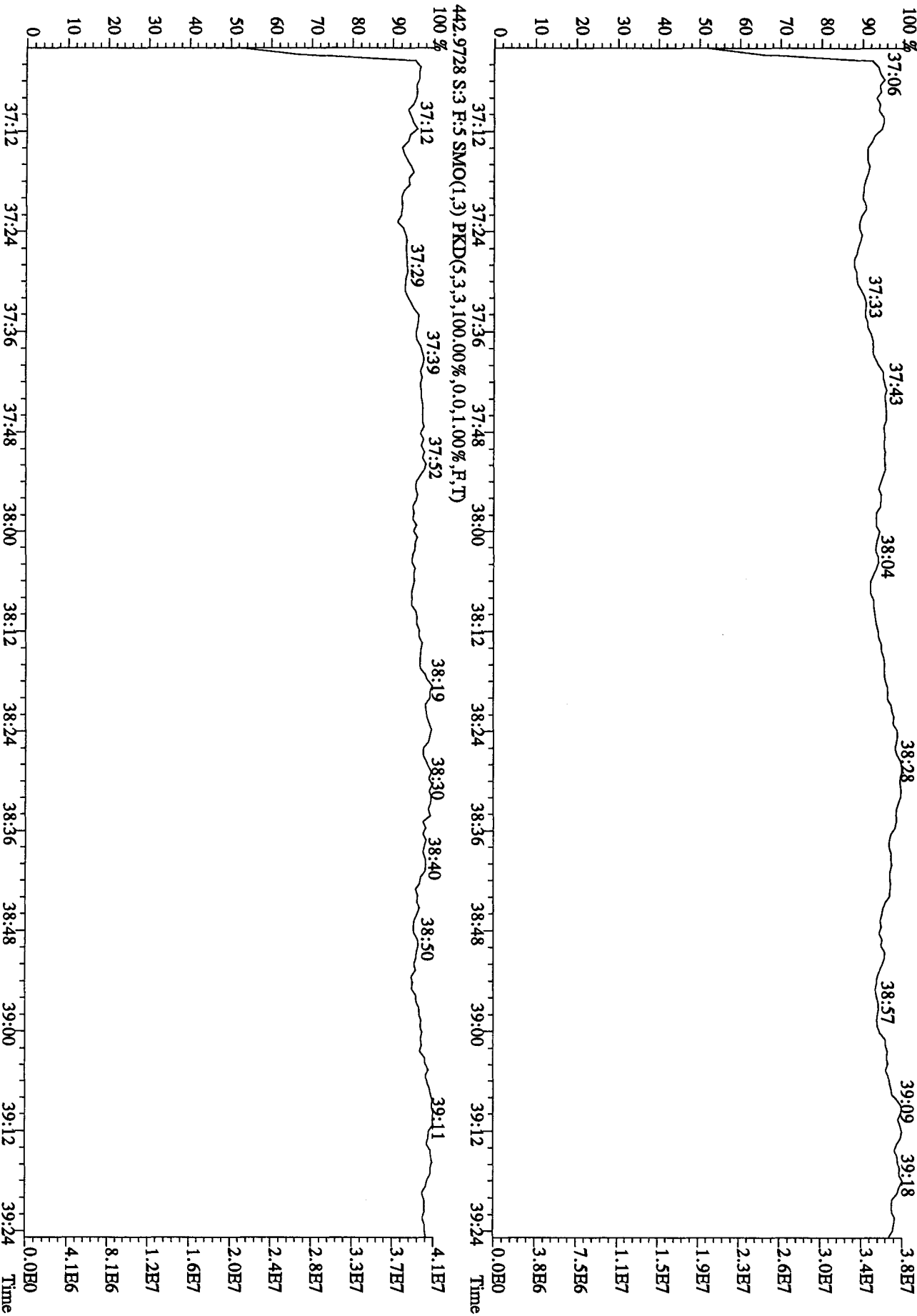


File:280C104D5 #1-287 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:L8V09-1-AA :G0J210484-11MB Exp:DIOXINRES
 392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

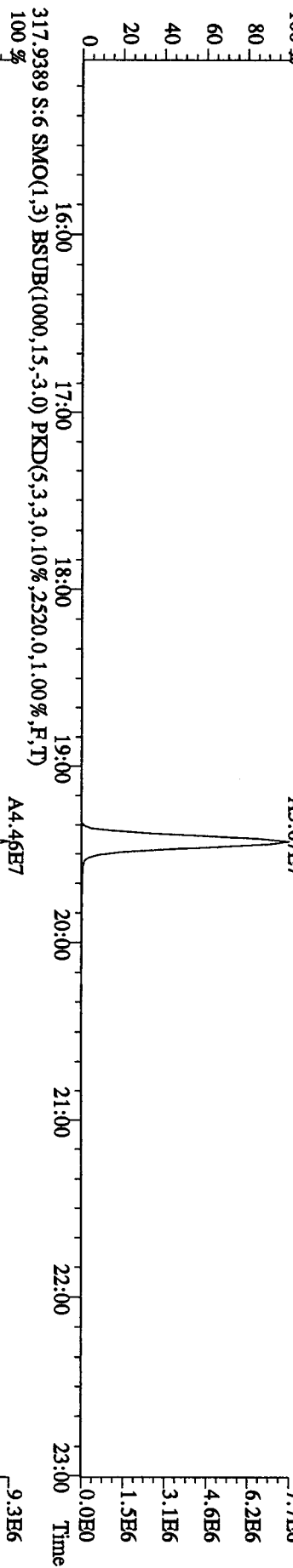
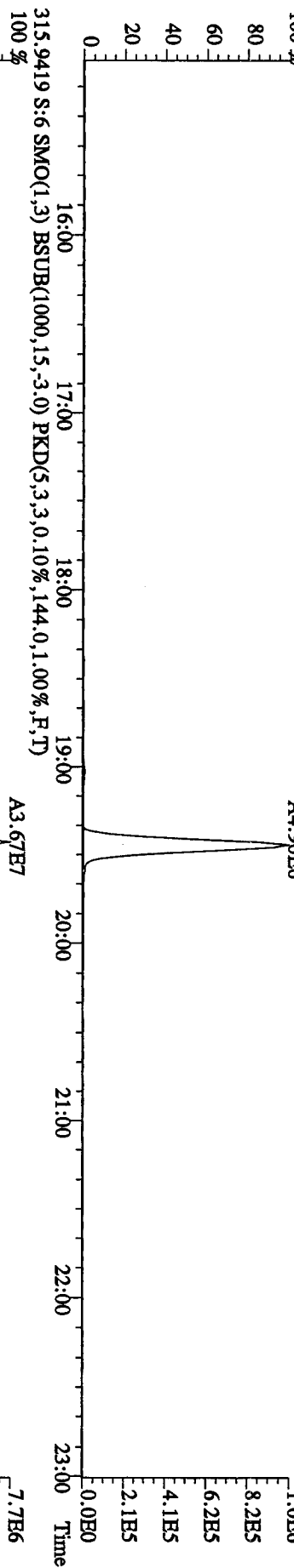
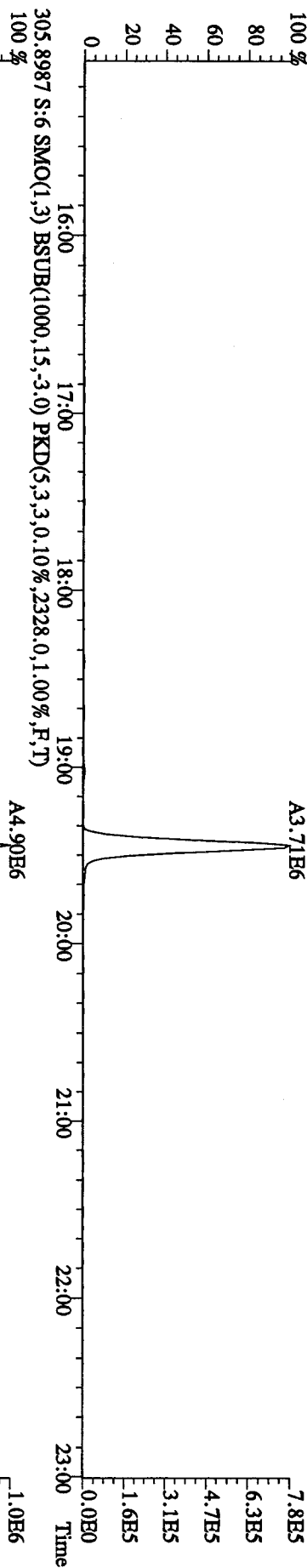




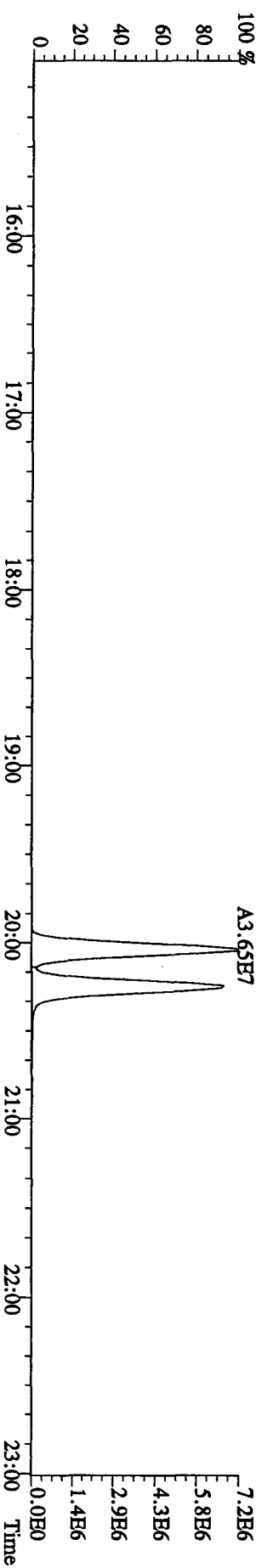
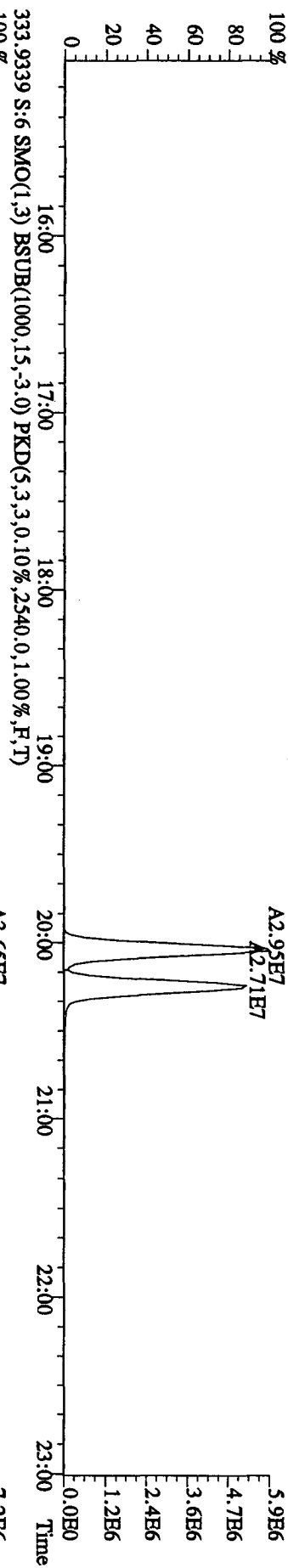
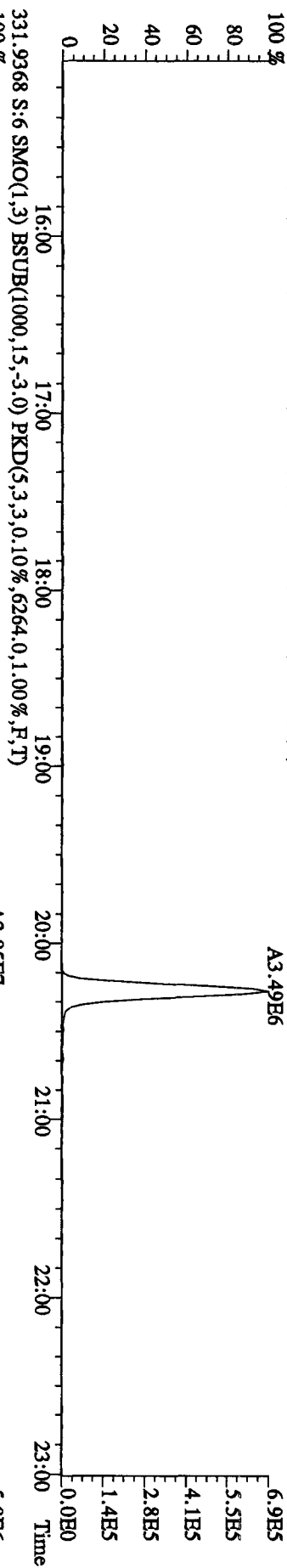
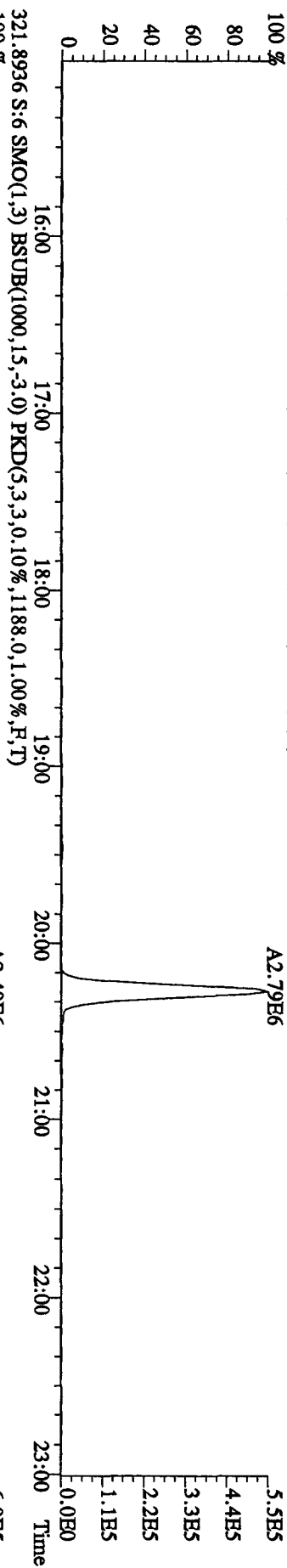
File:28OC104D5 #1-193 Acq:28-OCT-2010 11:06:06 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:18V09-1-AA :G0J210484-1IMB Exp:DIOXINRES
 454.9728 S:3 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



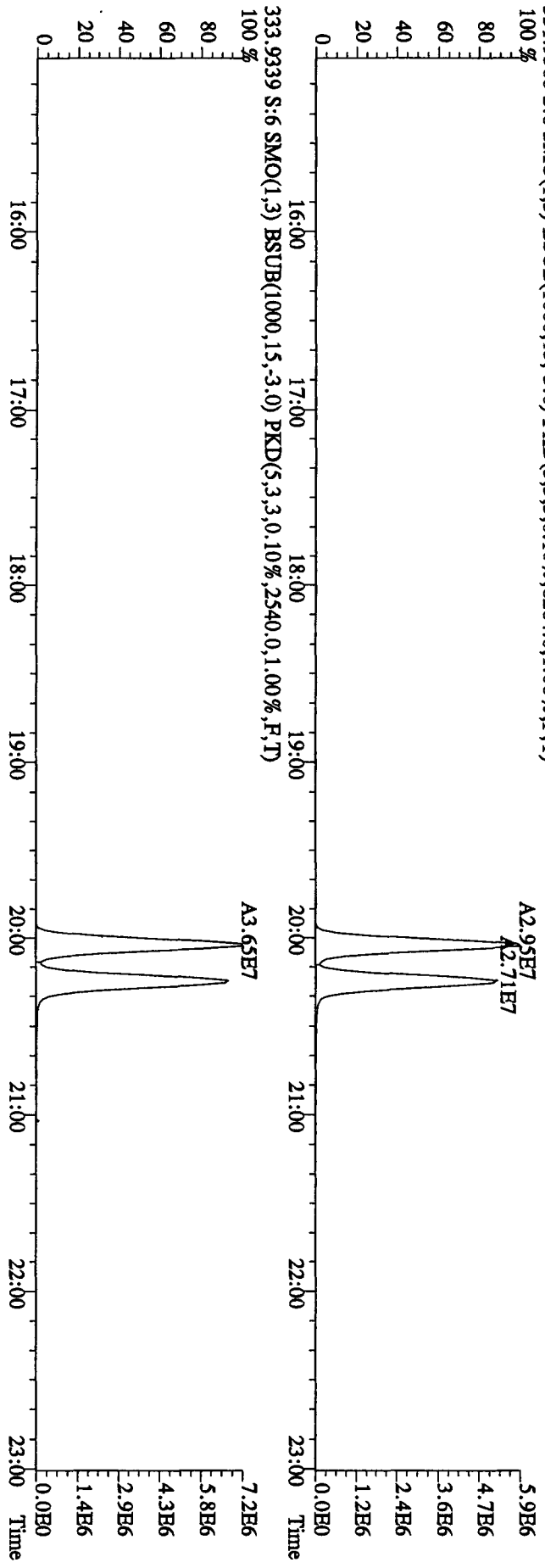
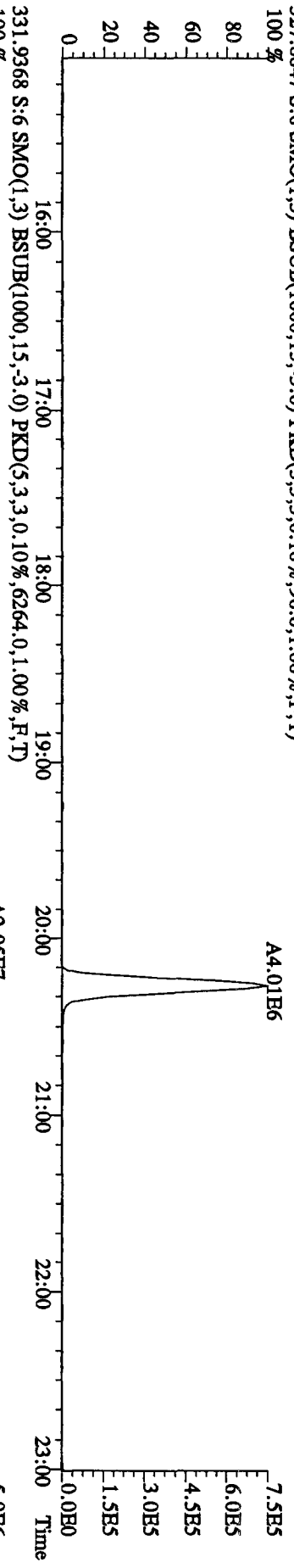
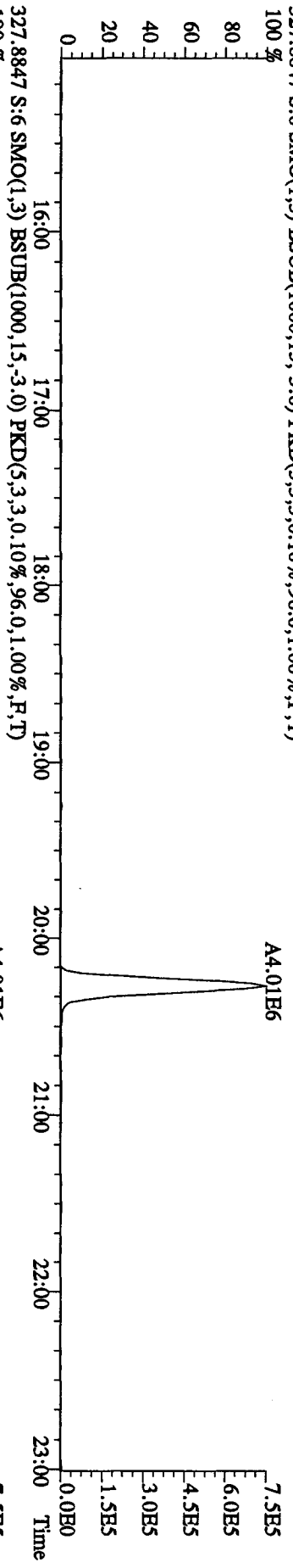
File: 280C104D5 #1-530 Acq: 28-OCT-2010 13:19:54 GC EI+ Voltage SFR Autospec-UltimaB
Sample#6 Text: ST1028A :CSS 10DXN461 Exp: DIOXINRES
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,604.0,1.00%,F,T)



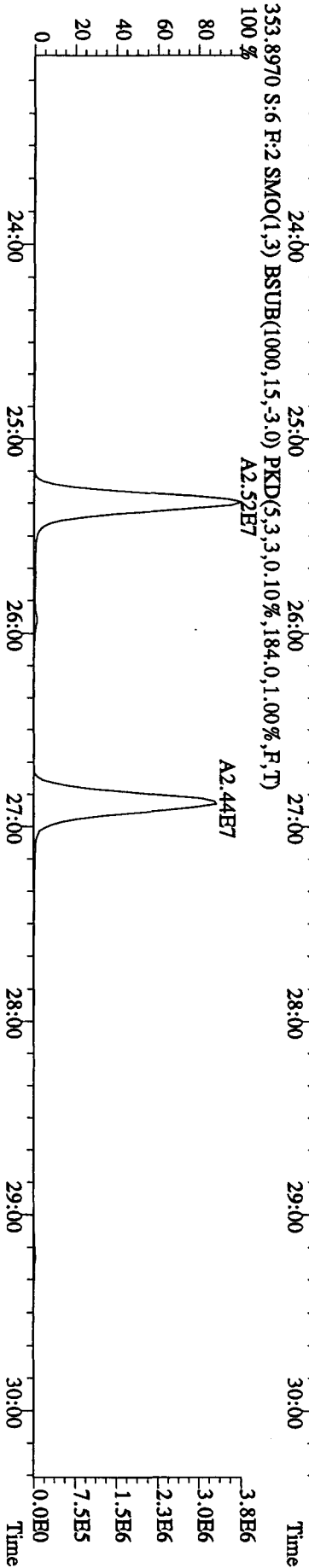
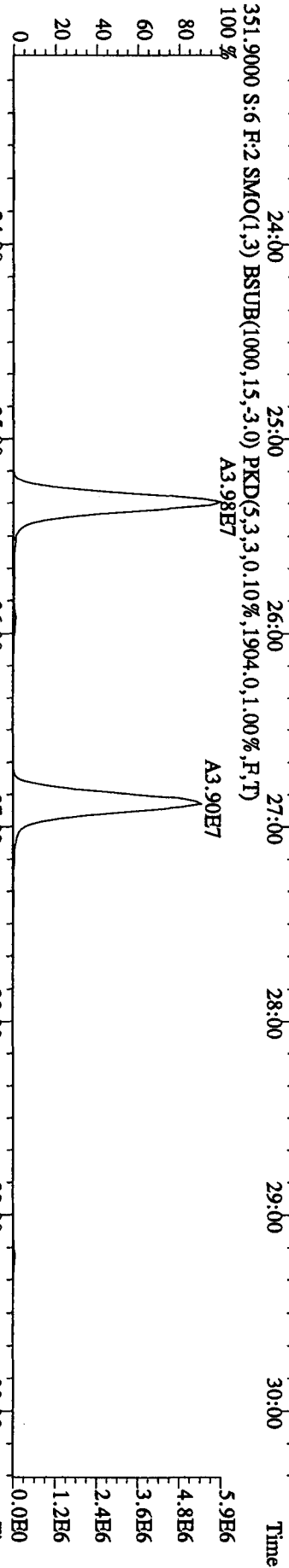
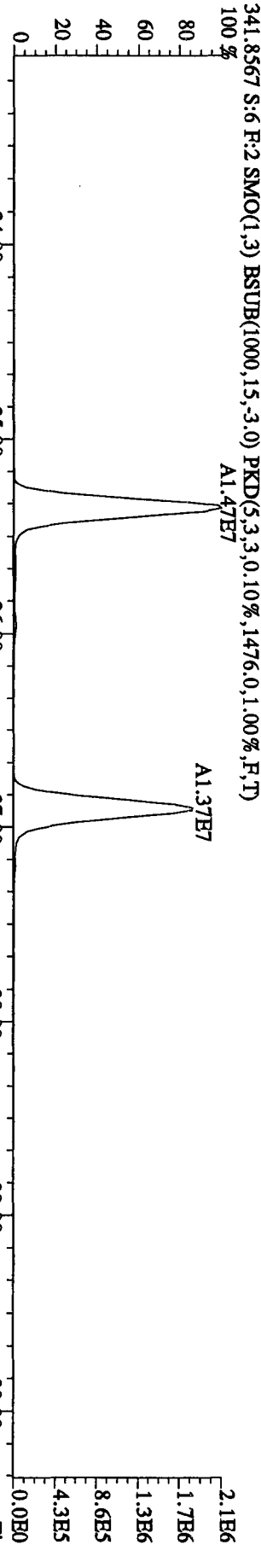
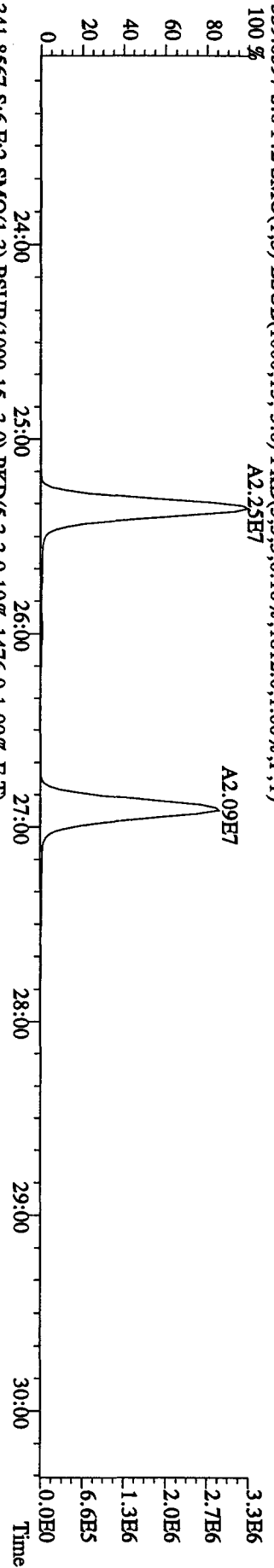
File:28OC104D5 #1-530 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,916.0,1.00%,F,T)



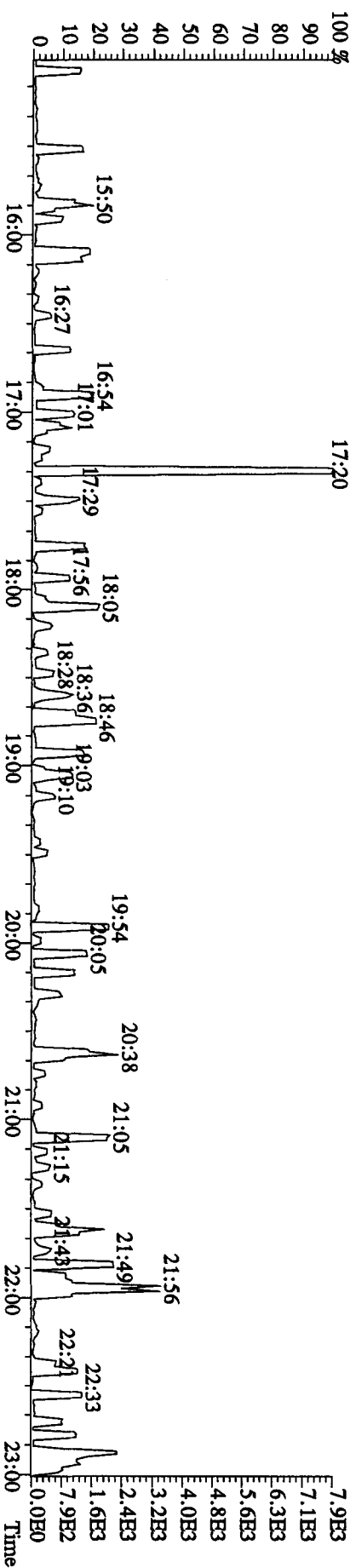
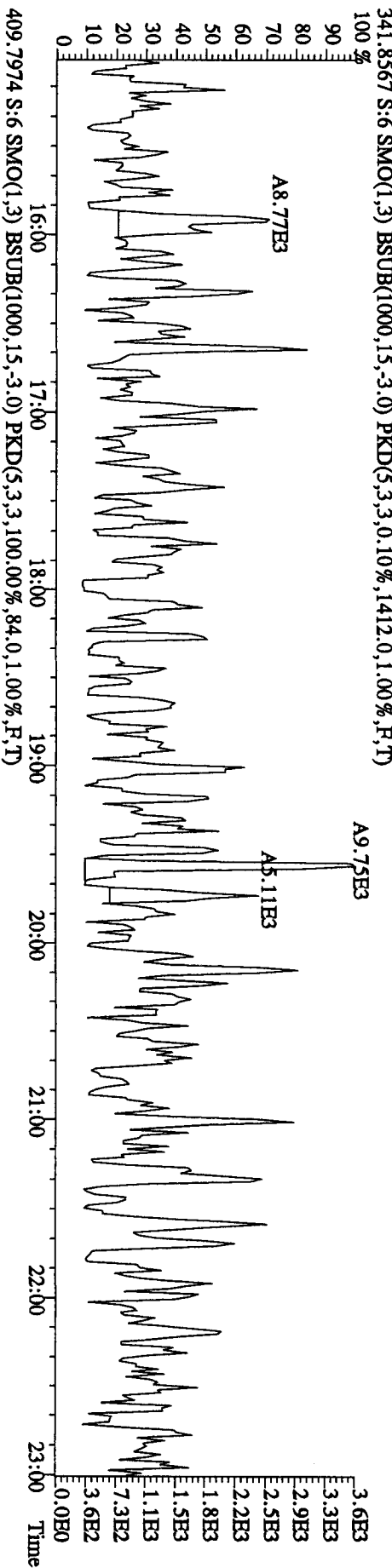
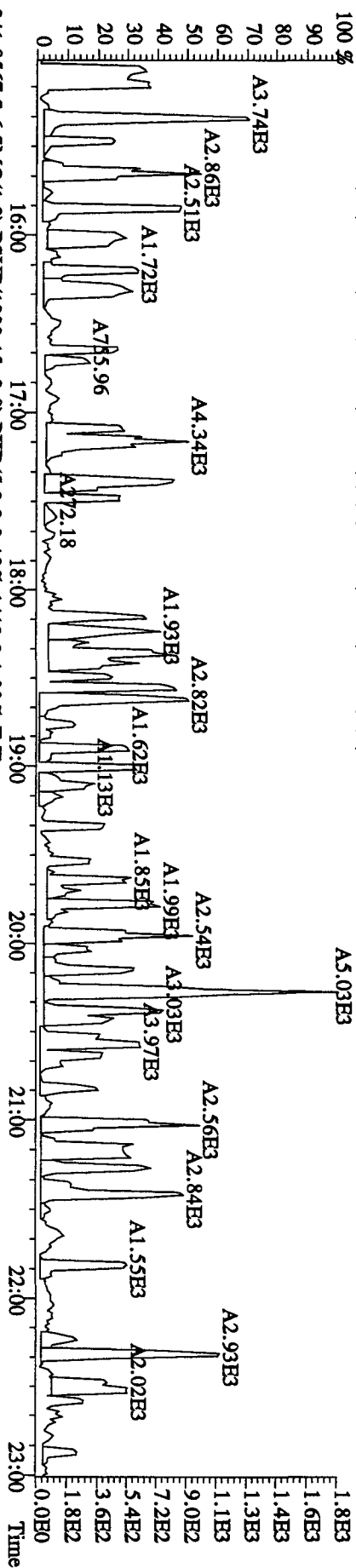
File:280C104D5 #1-530 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,96.0,1.00%,F,T)



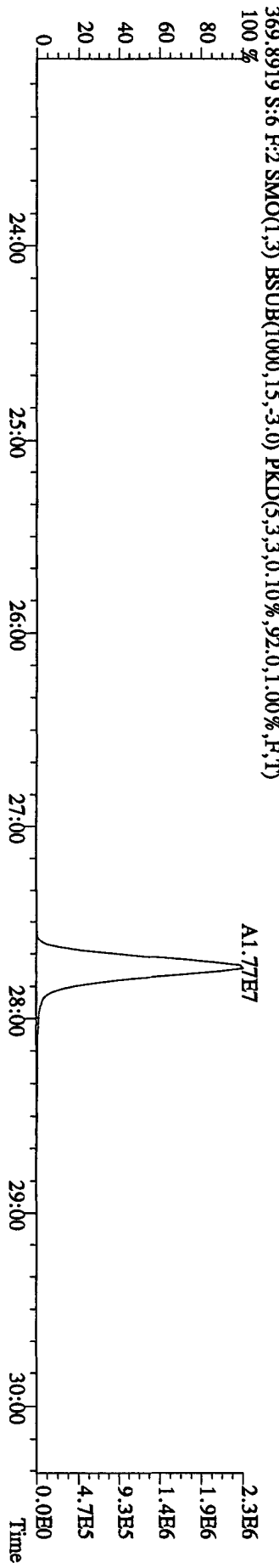
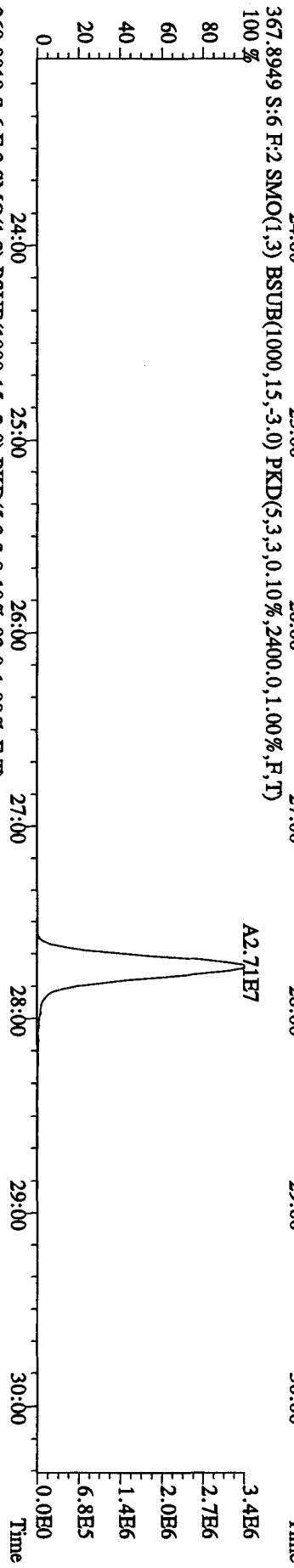
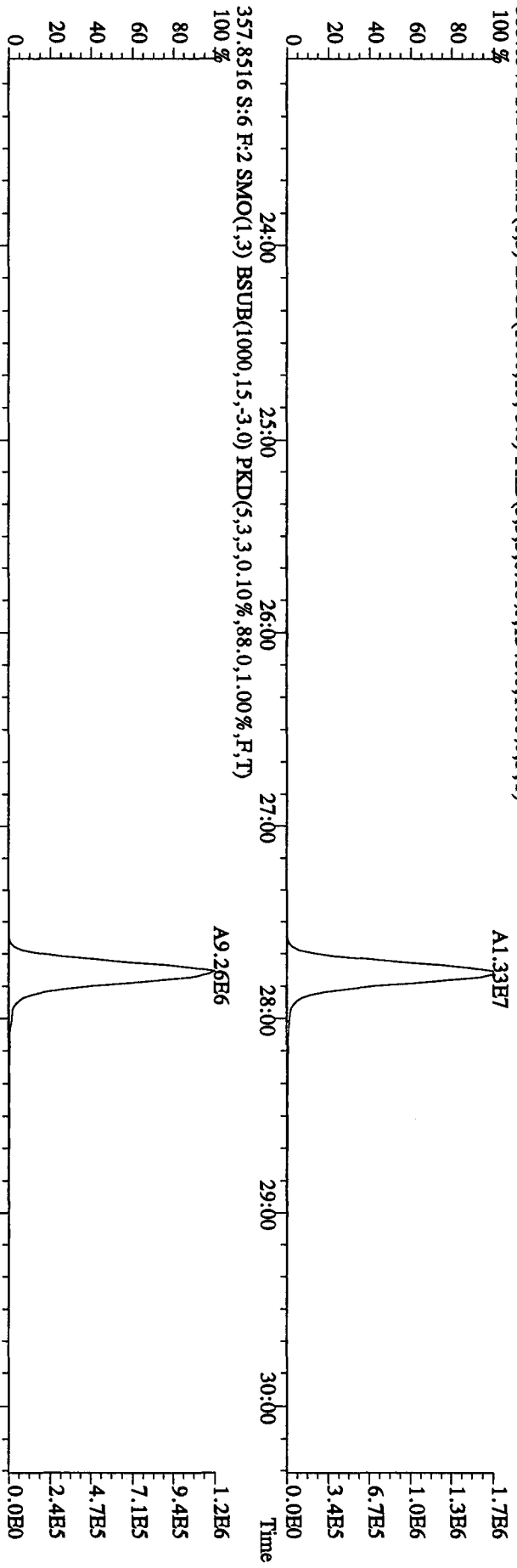
File:28OC104D5 #1-470 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1812.0,1.00%,F,T)



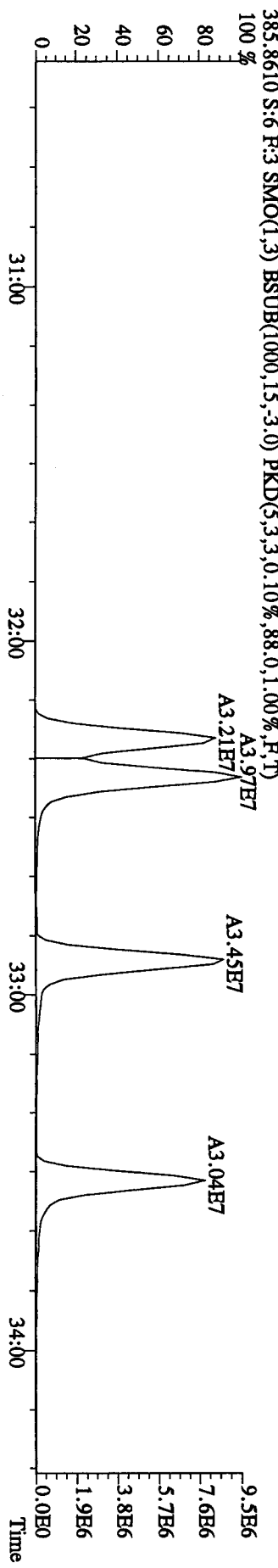
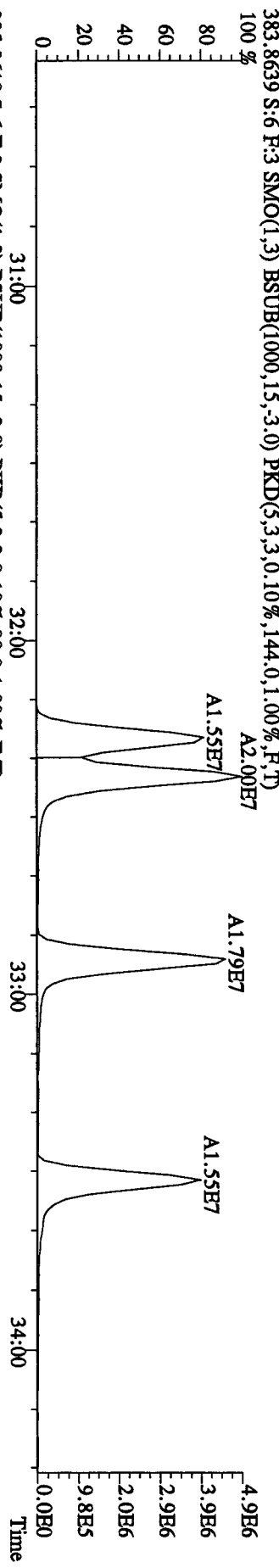
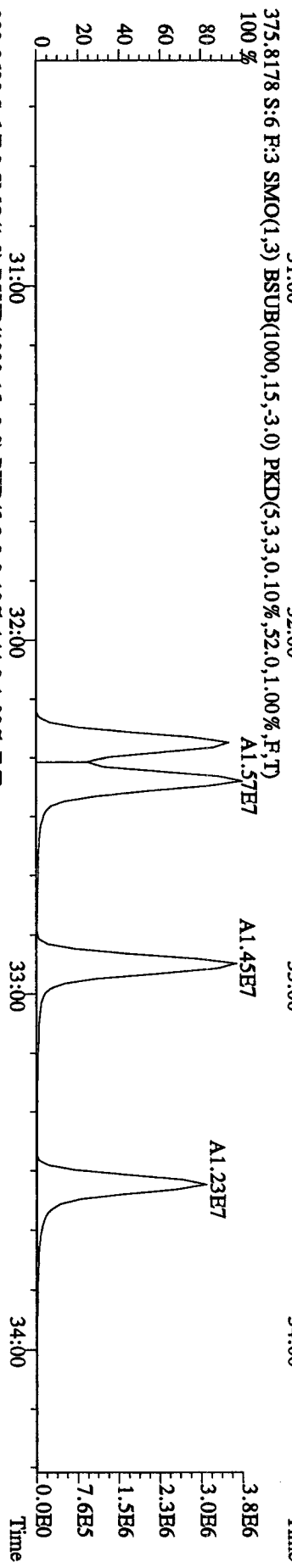
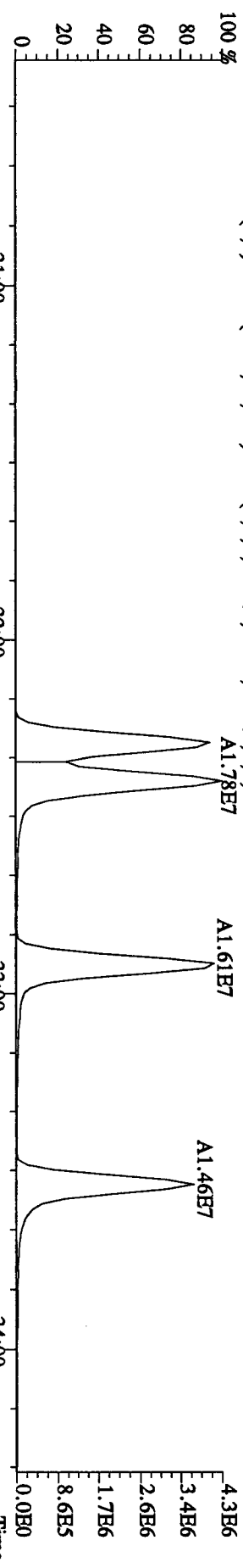
File:28OC104D5 #1-530 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 339,8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



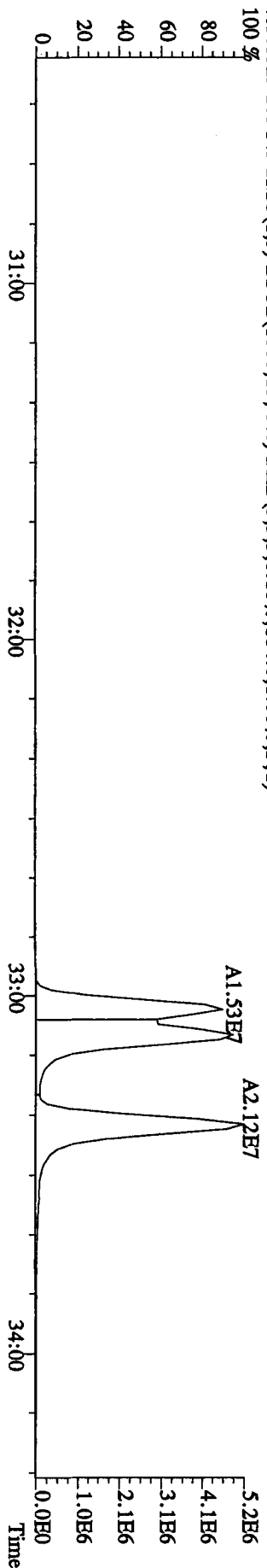
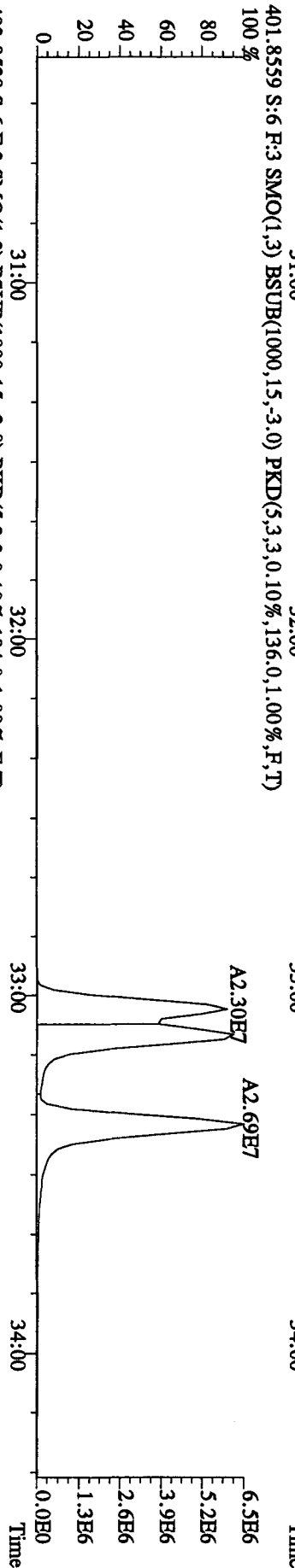
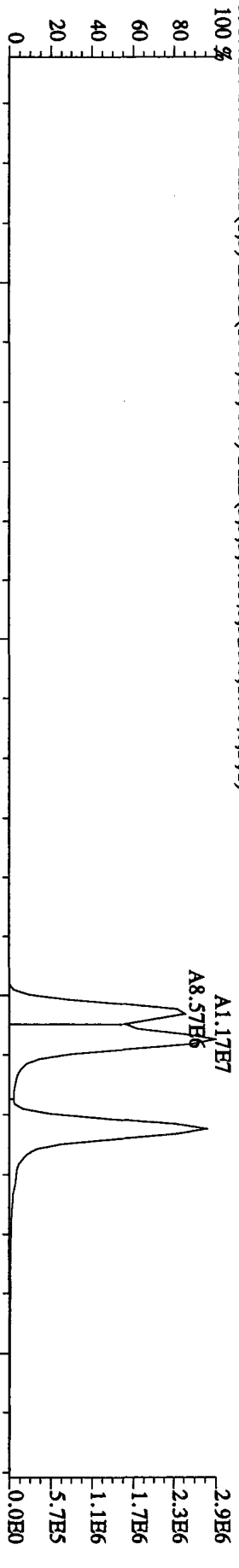
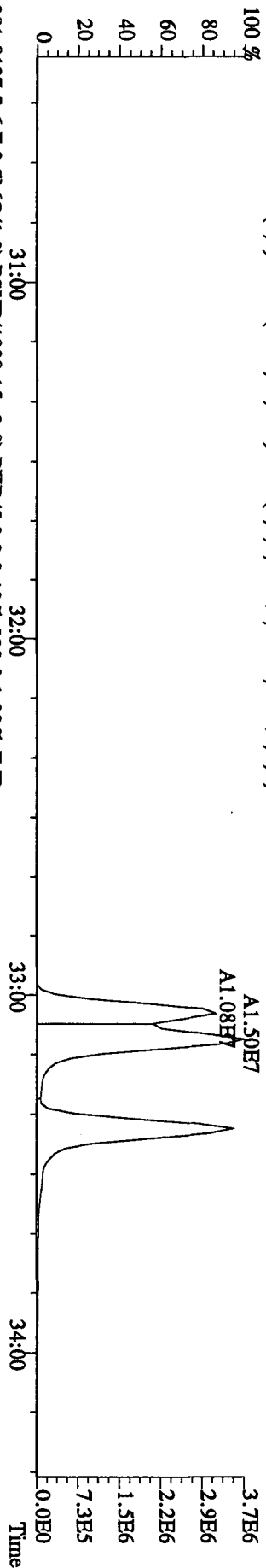
File:28OC104D5 #1-470 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage STR Autospec-UltimaB
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1348.0,1.00%,F,T)



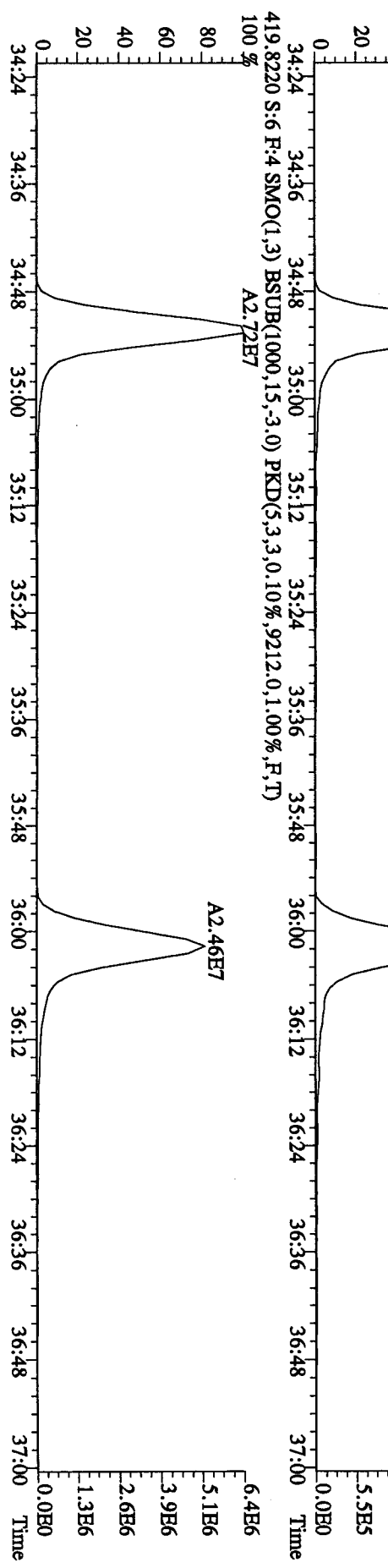
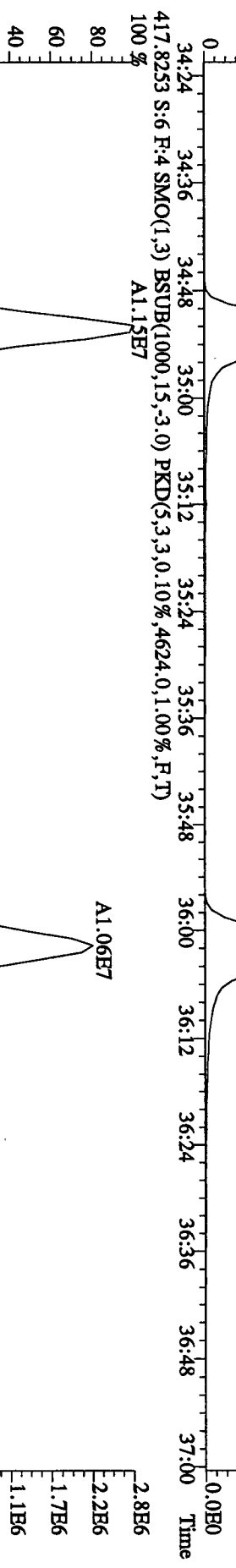
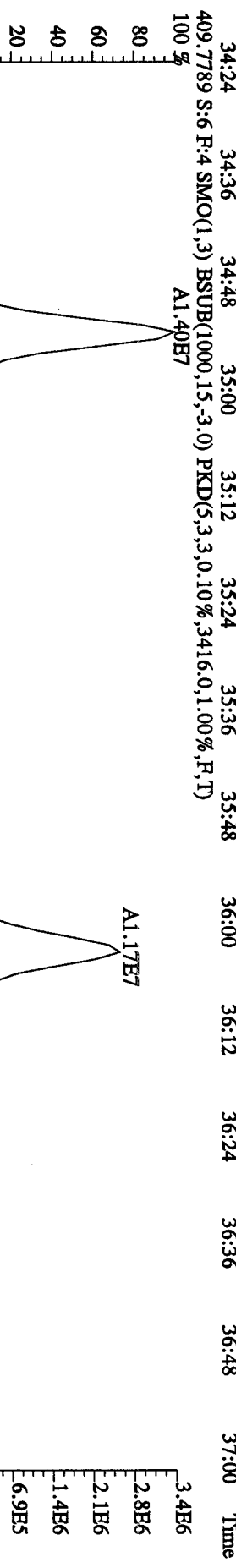
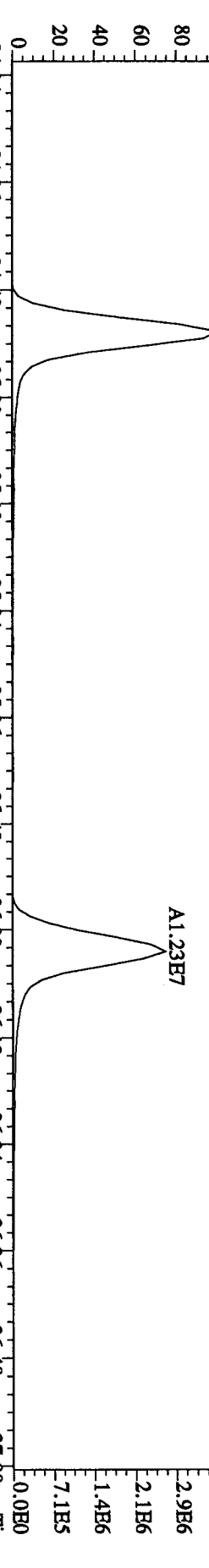
File:280C104D5 #1-287 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868,0,1.00%,F,T) 100 %



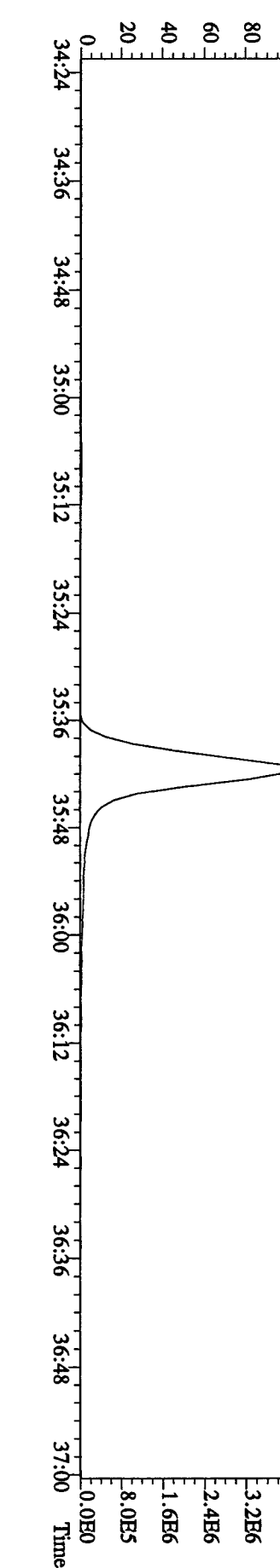
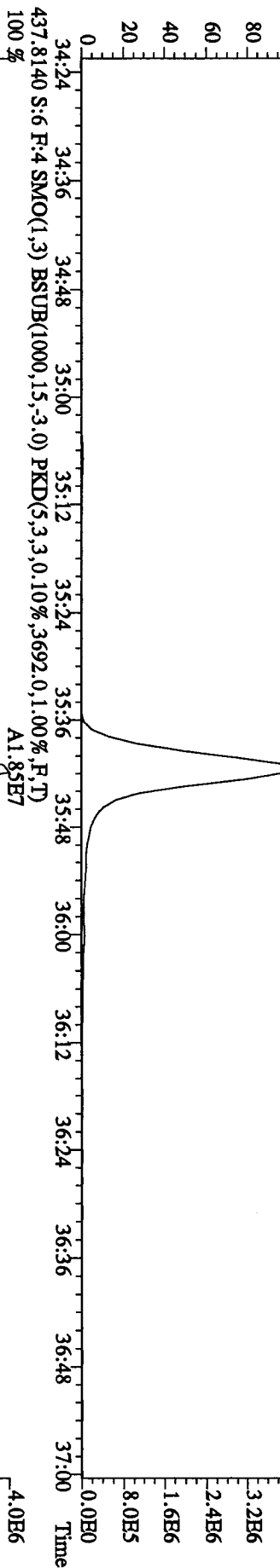
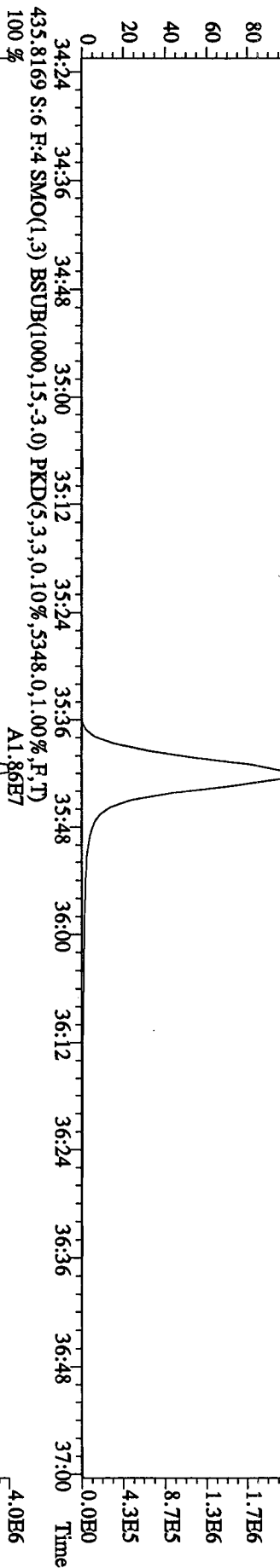
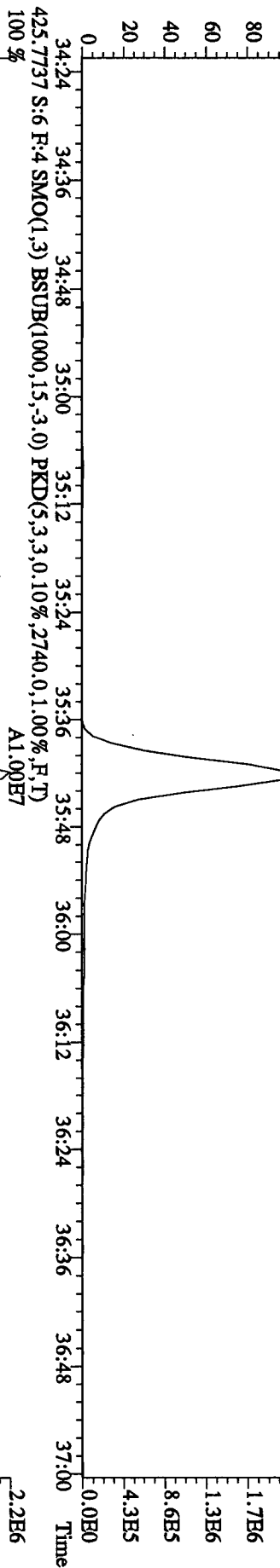
File:280C104D5 #1-287 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444,0,1.00%,F,T)
 100 %



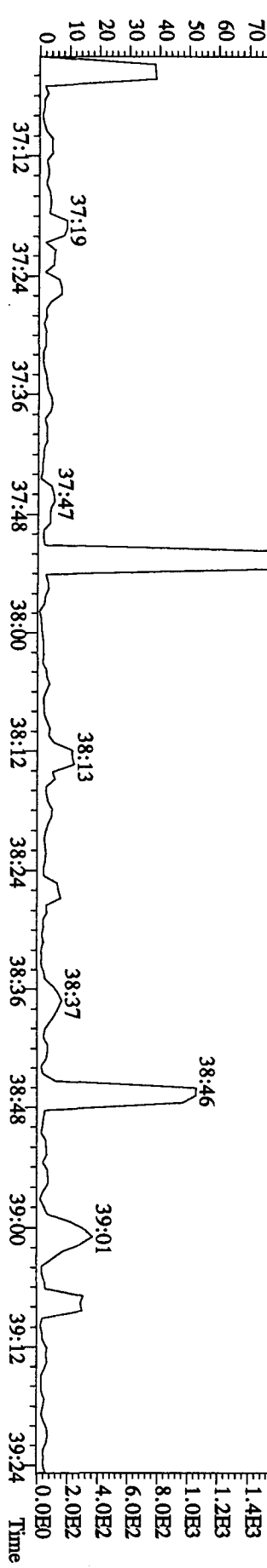
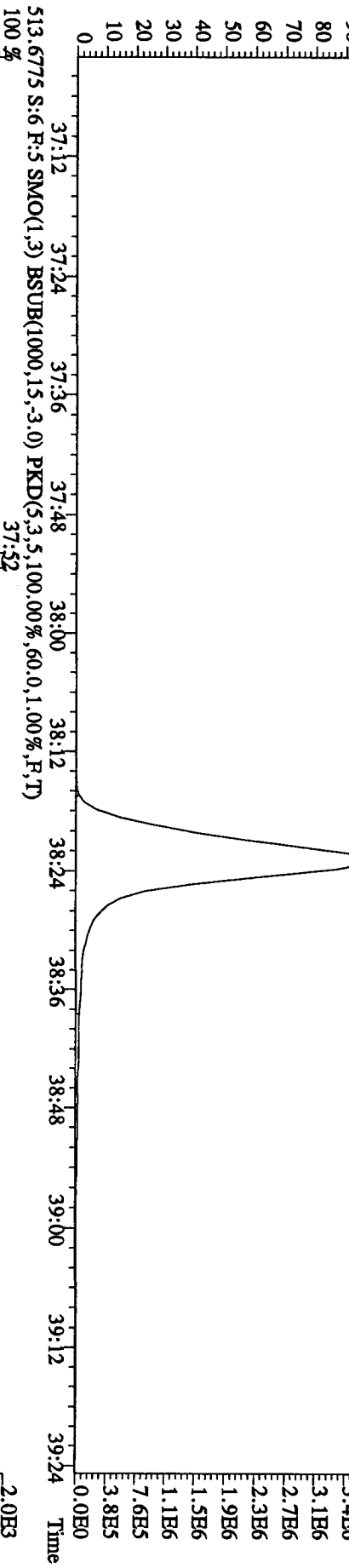
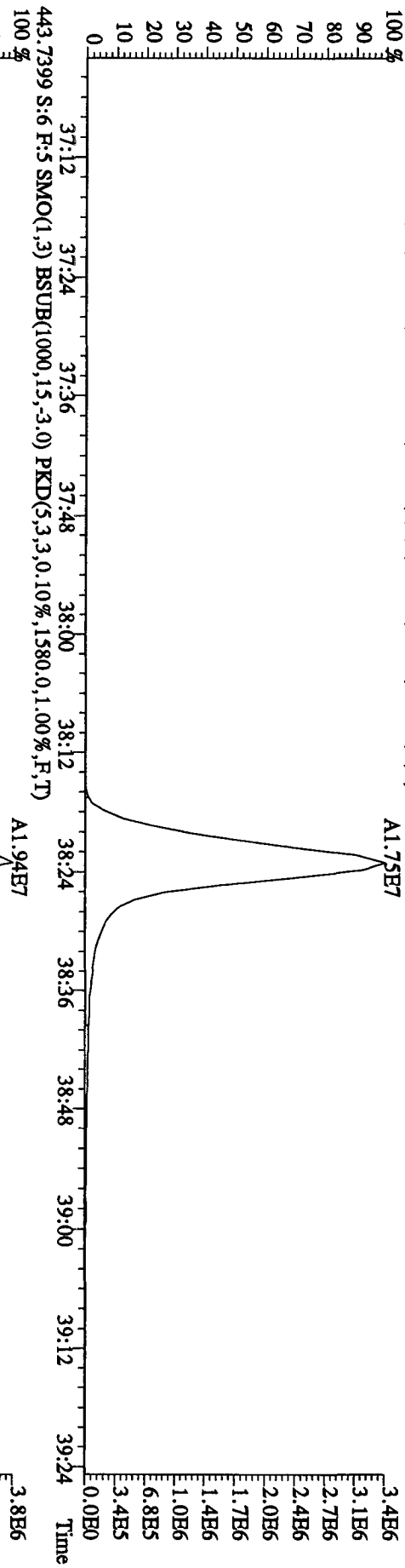
File:28OC104D5 #1-200 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2496,0,1.00%,F,T)
 100 % A1.45E7



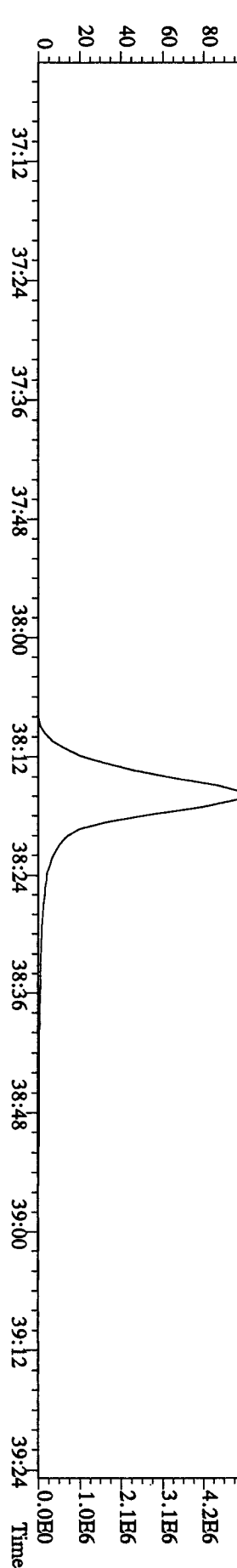
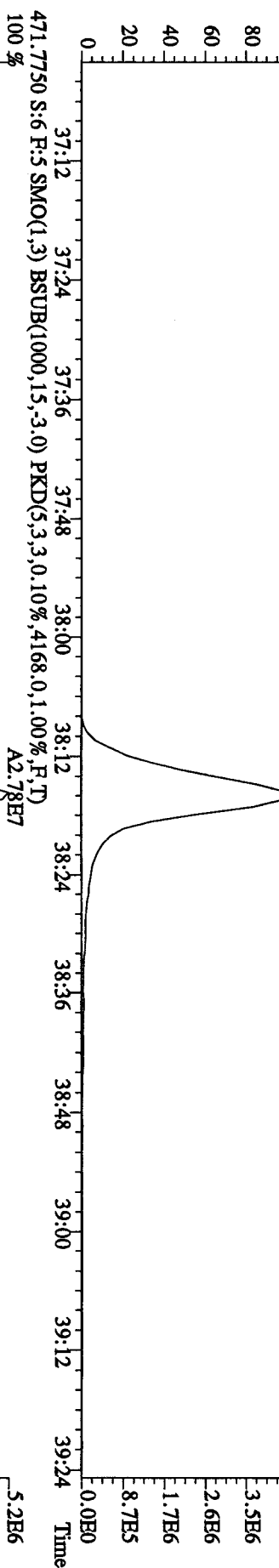
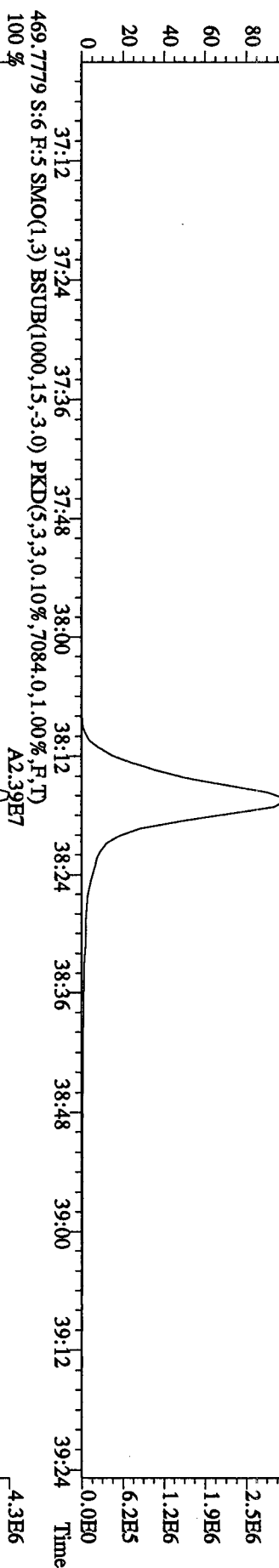
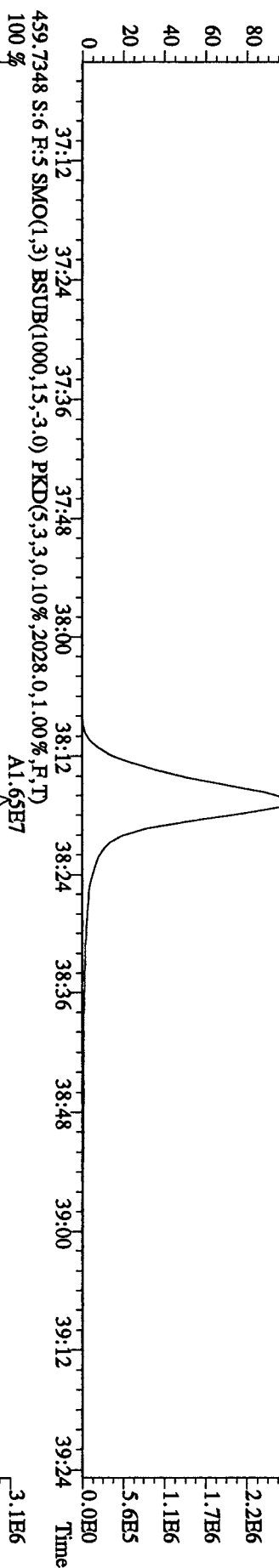
File:28OC104D5 #1-200 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2892.0,1.00%,F,T)
 100 % A1.01E7



File:28OC104D5 #1-193 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,764.0,1.00%,F,T)



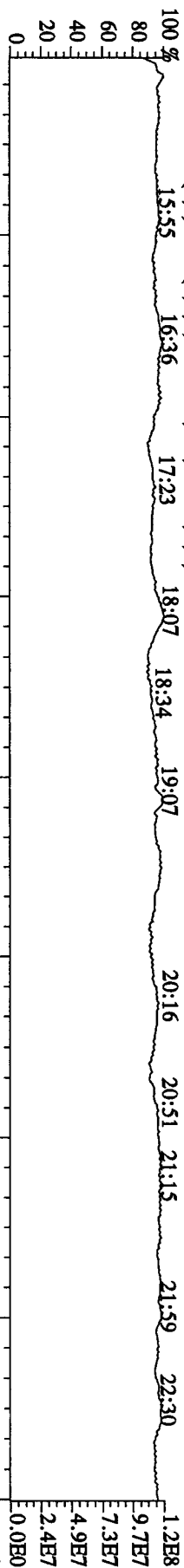
File:28OC104D5 #1-193 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)
 100 %



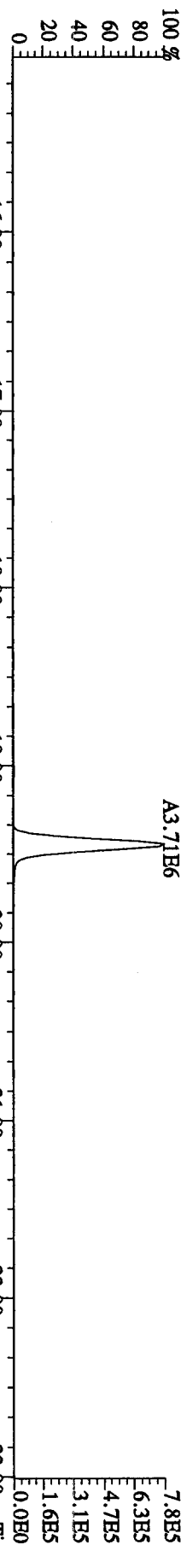
File:280C104D5 #1-530 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaB

Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES

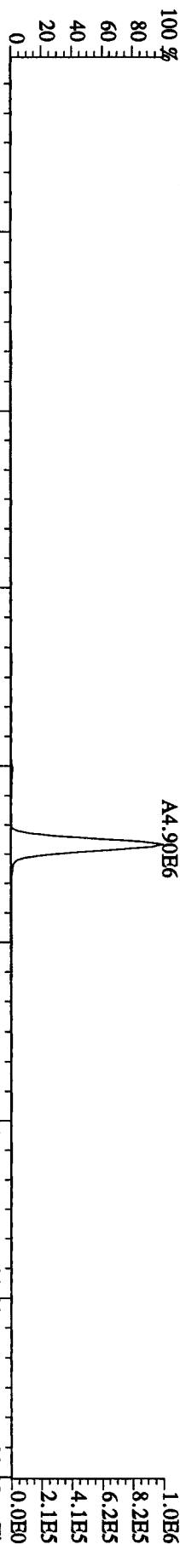
292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



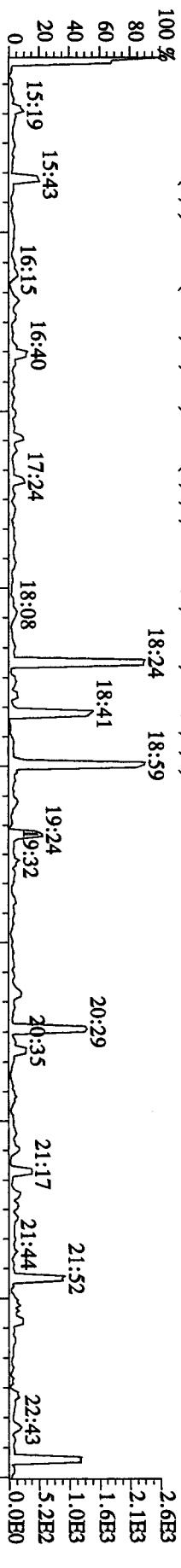
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,604.0,1.00%,F,T)



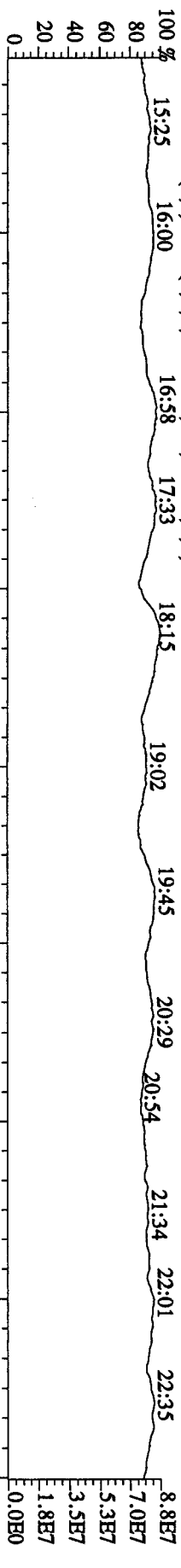
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



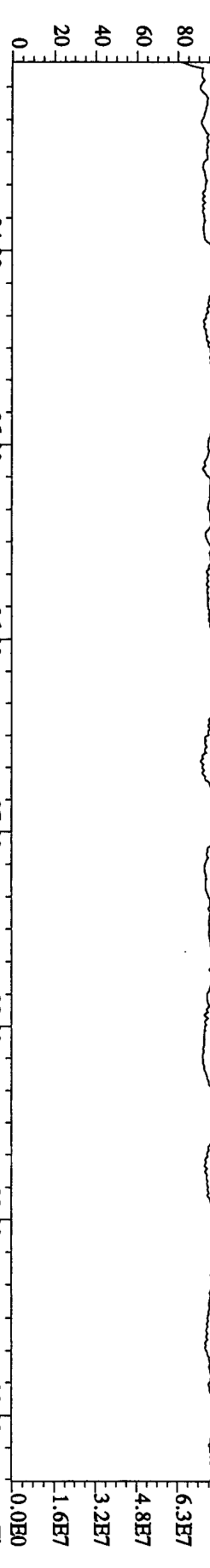
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,104.0,1.00%,F,T)



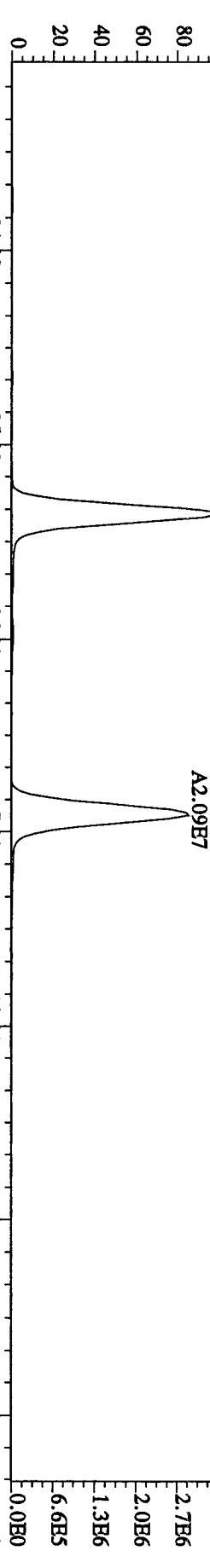
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



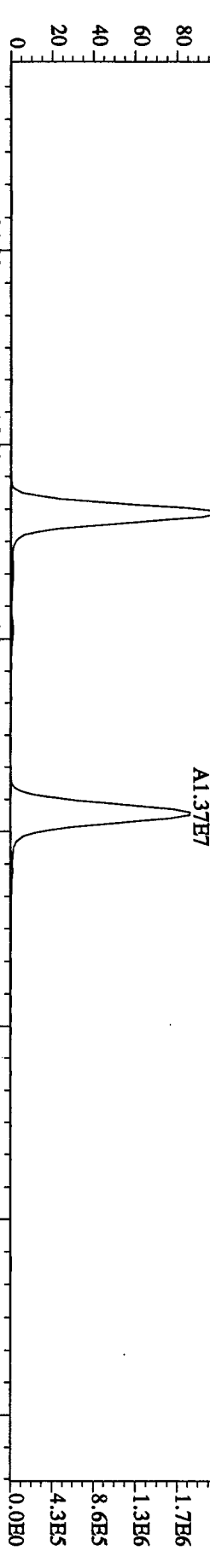
File:280C104D5 #1-470 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp.:DIOXINRES
 342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
 100% 23:25 24:02 25:24 26:09 26:53 27:38 29:07 30:05



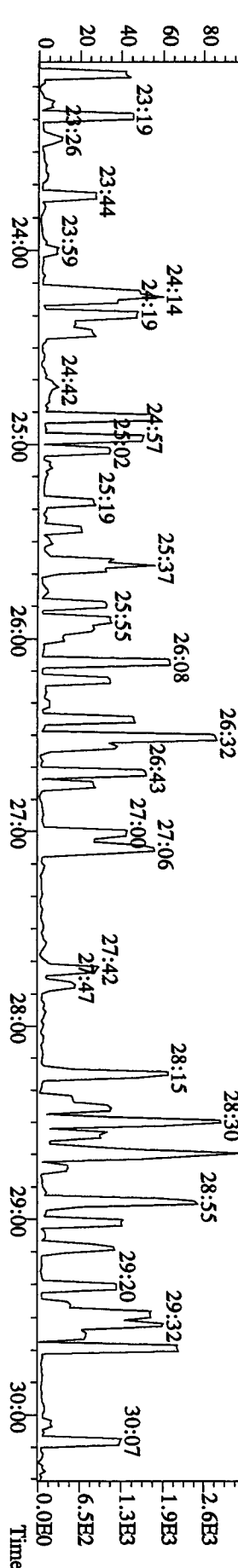
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1812,0,1.00%,F,T)
 100% A2.25E7 A2.09E7
 3.3B6 2.7B6 2.0B6 1.3B6 6.6B5 0.0B0



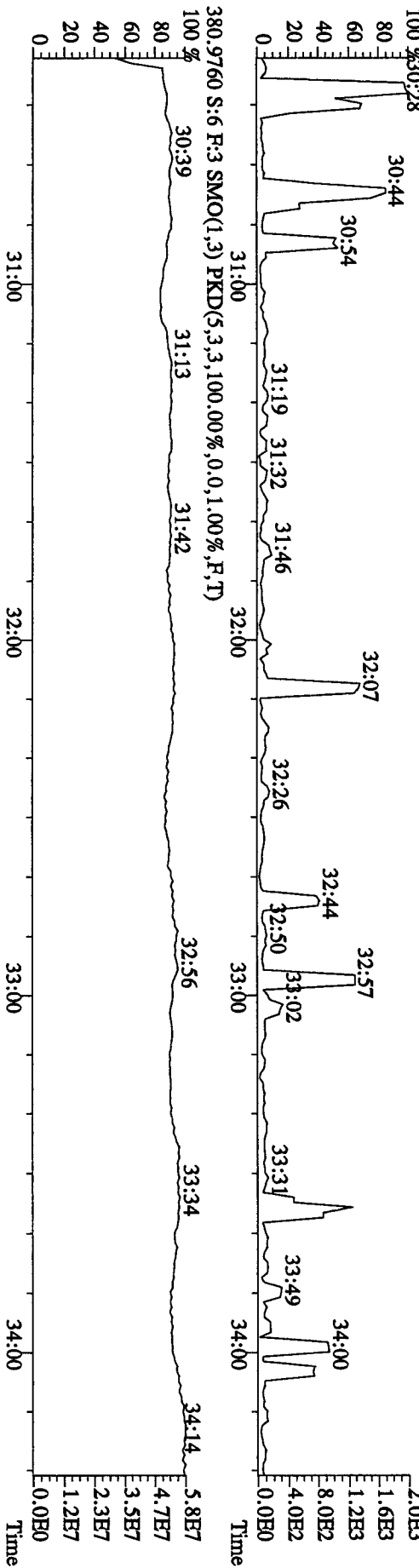
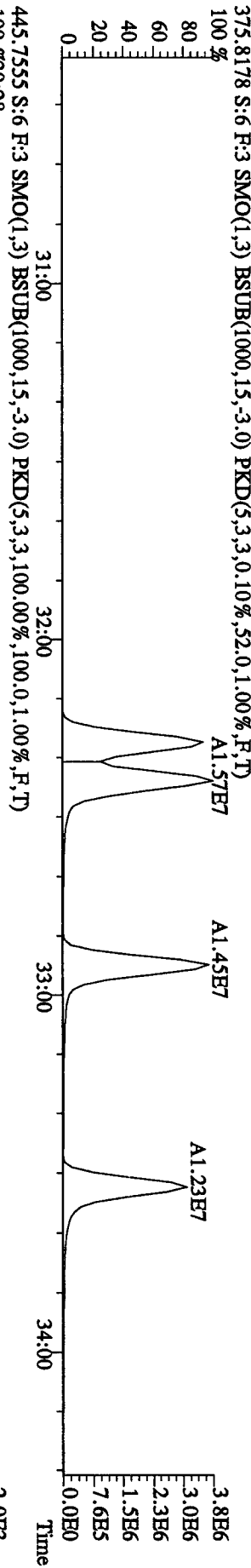
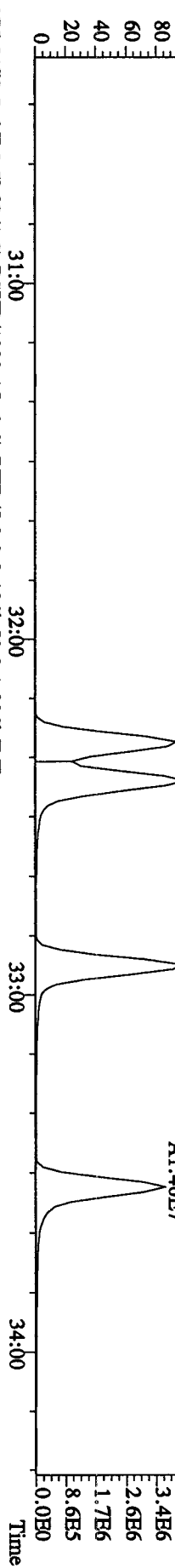
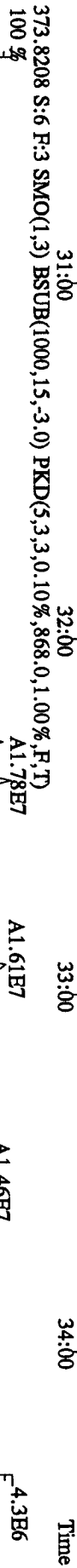
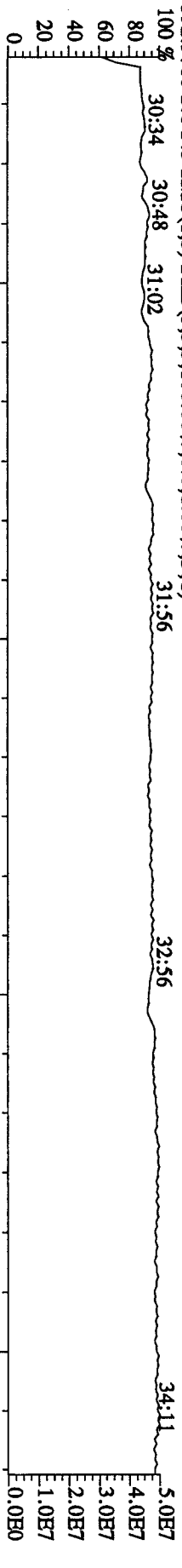
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1476,0,1.00%,F,T)
 100% A1.47E7 A1.37E7
 2.1B6 1.7B6 1.3B6 8.6B5 4.3B5 0.0B0



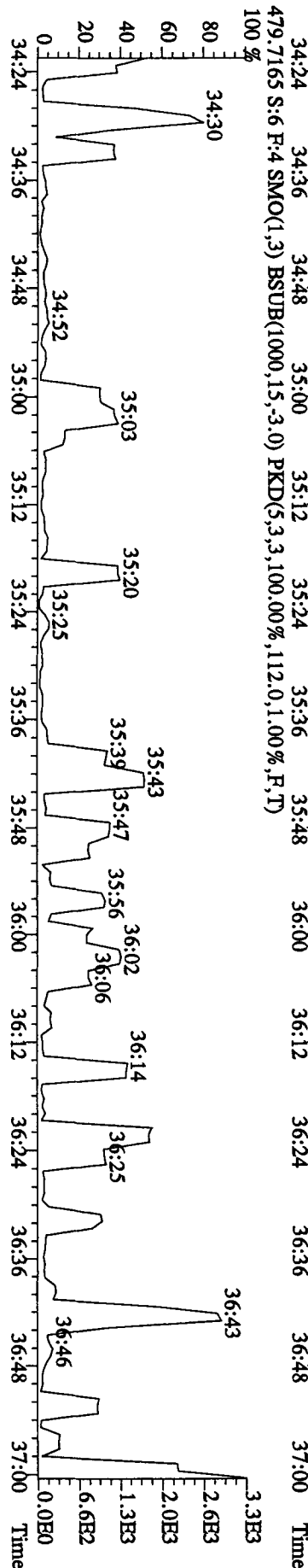
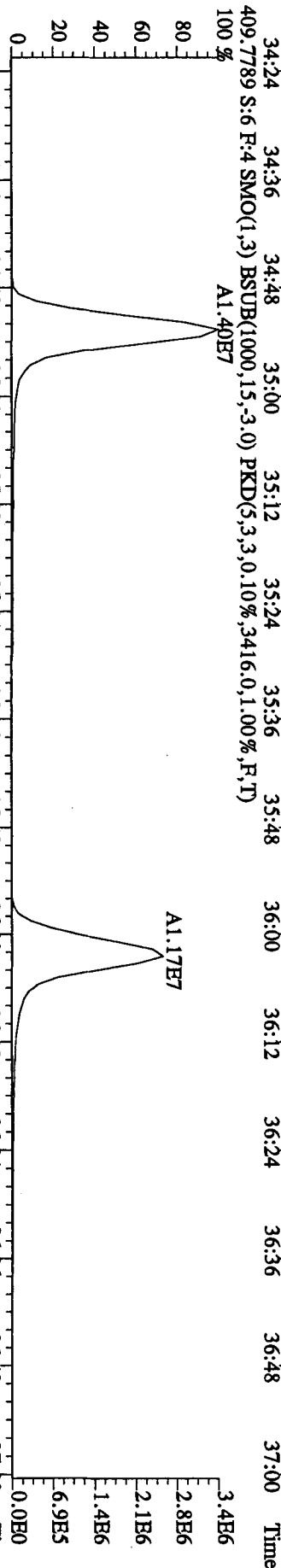
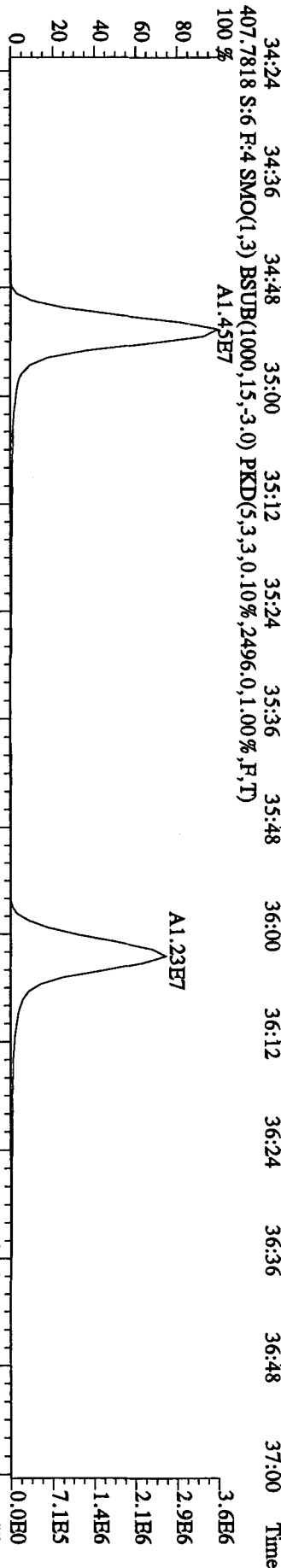
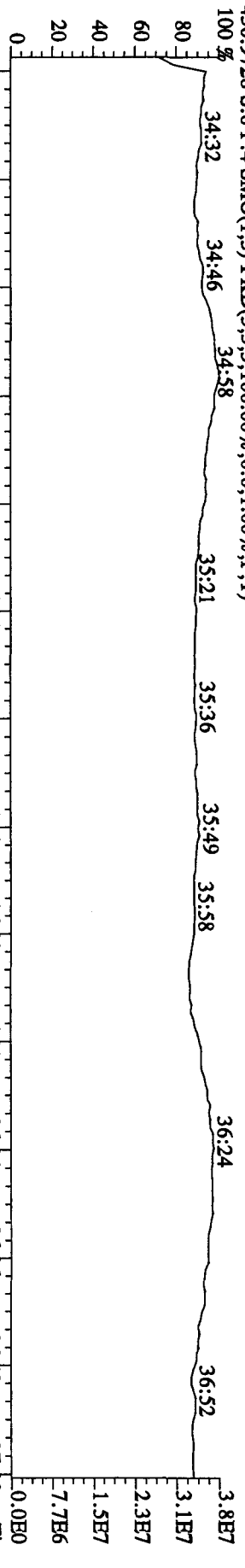
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,100,0,1.00%,F,T)
 100% 23:19 23:26 23:44 23:59 24:14 24:19 24:42 24:57 25:02 25:19 25:37 25:55 26:08 26:32 26:43 27:00 27:06 27:42 27:47 28:15 28:30 28:40 28:55 29:20 29:32 30:07
 3.2E3 2.6E3 1.9E3 1.3E3 6.5E2 0.0E0



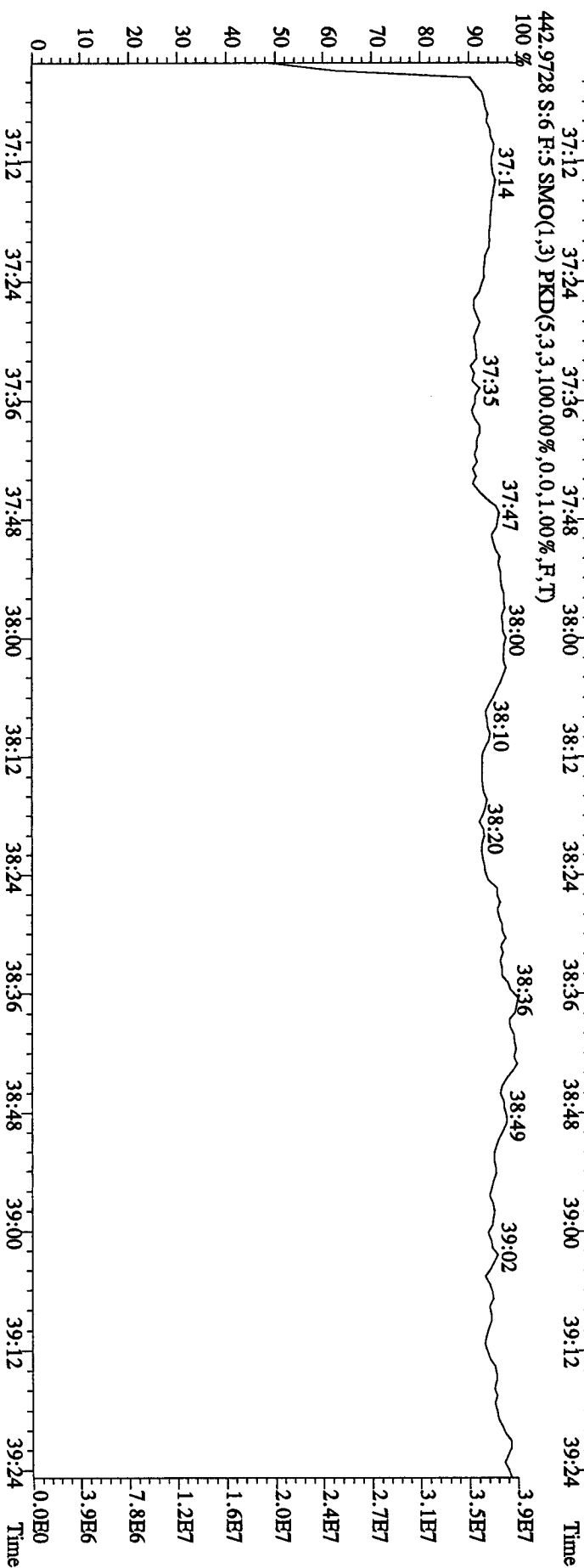
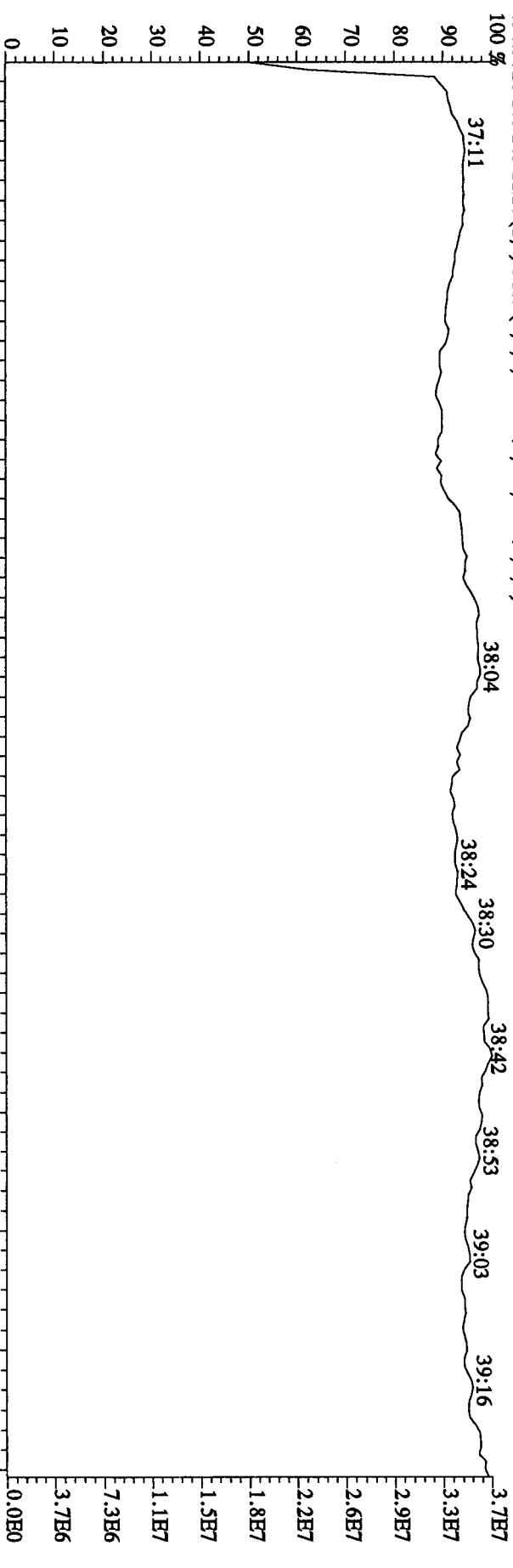
File:28OC104D5 #1-287 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 30:34 30:48 31:02 31:56 32:56 34:11



File:28OC104D5 #1-200 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRBS
 430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:28OC104D5 #1-193 Acq:28-OCT-2010 13:19:54 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST1028A :CS3 10DXN461 Exp:DIOXINRES
 454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Daily Calibration Checklist
Dioxin Methods

Method ID TO9

Associated ICAL TO9 072110 4D5

Column ID DB5

Instrument ID 4D5

STD ID ST1028B, ST1028C

STD Solution 10 DXN461

Analyzed by AS

Date Analyzed 10-28-10, 10-29-10

Std. Pkg. By AS

Date Std. Pkg. Assembled 10-29-10

Std. Pkg. Reviewed By NC

Date Std. Pkg. Reviewed 10-29-10

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:

*** See NCM # 07-0115585

* 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: ST1028B File text: ST1028B :CS3 10DXN461
 Run #6 Filename 28OC104D5 S: 17 I: 1
 Acquired: 28-OCT-10 21:30:12 Processed: 28-OCT-10 22:18:15
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	67234500	0.79 y	20:03	-	100.00	-	n
13C-2,3,7,8-TCDF	81290600	0.81 y	19:25	1.21	100.00	-1.6	n
2,3,7,8-TCDF	8643900	0.75 y	19:27	1.06	10.00	6.9	n
Total TCDF	8783482	1.15 n	17:31	1.06	10.00	6.9	n
13C-2,3,7,8-TCDD	65367500	0.79 y	20:14	0.97	100.00	7.4	n
2,3,7,8-TCDD	6512290	0.80 y	20:16	1.00	10.00	1.3	n
Total TCDD	6580142	0.27 n	16:57	1.00	10.00	1.3	n
37Cl-2,3,7,8-TCDD	8345280	1.00 y	20:16	1.28	10.00	-3.7	n
13C-1,2,3,7,8-PeCDF	62103000	1.53 y	25:18	0.92	100.00	5.4	n
1,2,3,7,8-PeCDF	36268100	1.51 y	25:20	1.17	50.00	8.5	n
2,3,4,7,8-PeCDF	35526300	1.53 y	26:53	1.14	50.00	9.4	n
Total F2 PeCDF	72859405	1.74 y	23:46	1.16	100.00	8.9	n
Total F1 PeCDF	11996	0.73 n	18:05	1.16	100.00	8.9	n
13C-1,2,3,7,8-PeCDD	46075700	1.52 y	27:42	0.69	100.00	3.7	n
1,2,3,7,8-PeCDD	23248660	1.45 y	27:45	1.01	50.00	9.0	n
Total PeCDD	23349243	1.45 y	27:45	1.01	50.00	9.0	n
13C-1,2,3,7,8,9-HxCDD	47016500	1.30 y	33:21	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	49277500	0.50 y	32:16	1.05	100.00	0.3	n
1,2,3,4,7,8-HxCDF	30306500	1.12 y	32:17	1.23	50.00	1.1	n
1,2,3,6,7,8-HxCDF	33681500	1.15 y	32:24	1.37	50.00	6.7	n
2,3,4,6,7,8-HxCDF	31190000	1.16 y	32:55	1.27	50.00	2.6	n
1,2,3,7,8,9-HxCDF	26892000	1.16 y	33:32	1.09	50.00	-0.6	n
Total HxCDF	122143770	1.36 y	31:16	1.24	200.00	2.6	n
13C-1,2,3,6,7,8-HxCDD	41346100	1.13 y	33:06	0.88	100.00	5.9	n
1,2,3,4,7,8-HxCDD	20640100	1.23 y	33:03	1.00	50.00	-3.7	n
1,2,3,6,7,8-HxCDD	25262500	1.28 y	33:07	1.22	50.00	5.1	n
1,2,3,7,8,9-HxCDD	24454100	1.27 y	33:22	1.18	50.00	0.1	n
Total HxCDD	70523656	1.23 y	33:03	1.13	150.00	0.6	n
13C-1,2,3,4,6,7,8-HpCDF	40899100	0.41 y	34:52	0.87	100.00	-4.4	n
1,2,3,4,6,7,8-HpCDF	29998700	1.04 y	34:52	1.47	50.00	9.0	n
1,2,3,4,7,8,9-HpCDF	24752400	1.04 y	36:02	1.21	50.00	10.7	n
Total HpCDF	54751100	1.04 y	34:52	1.34	100.00	9.8	n
13C-1,2,3,4,6,7,8-HpCDD	39213200	1.05 y	35:42	0.83	100.00	0.9	n
1,2,3,4,6,7,8-HpCDD	20802900	1.00 y	35:42	1.06	50.00	-1.0	n
Total HpCDD	20976209	0.86 n	35:07	1.06	50.00	-1.0	n
13C-OCDD	55048500	0.87 y	38:15	0.59	200.00	-5.6	n
OCDF	39143900	0.88 y	38:23	1.42	100.00	3.8	n
OCDD	33549900	0.91 y	38:16	1.22	100.00	1.6	n

Run text: ST1028C File text: ST1028C :CS3 10DXN461
 Run #13 Filename 28OC104D5 S: 30 I: 1
 Acquired: 29-OCT-10 07:09:39 Processed: 29-OCT-10 09:04:15
 Run: 28OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 28OC104D5TO9

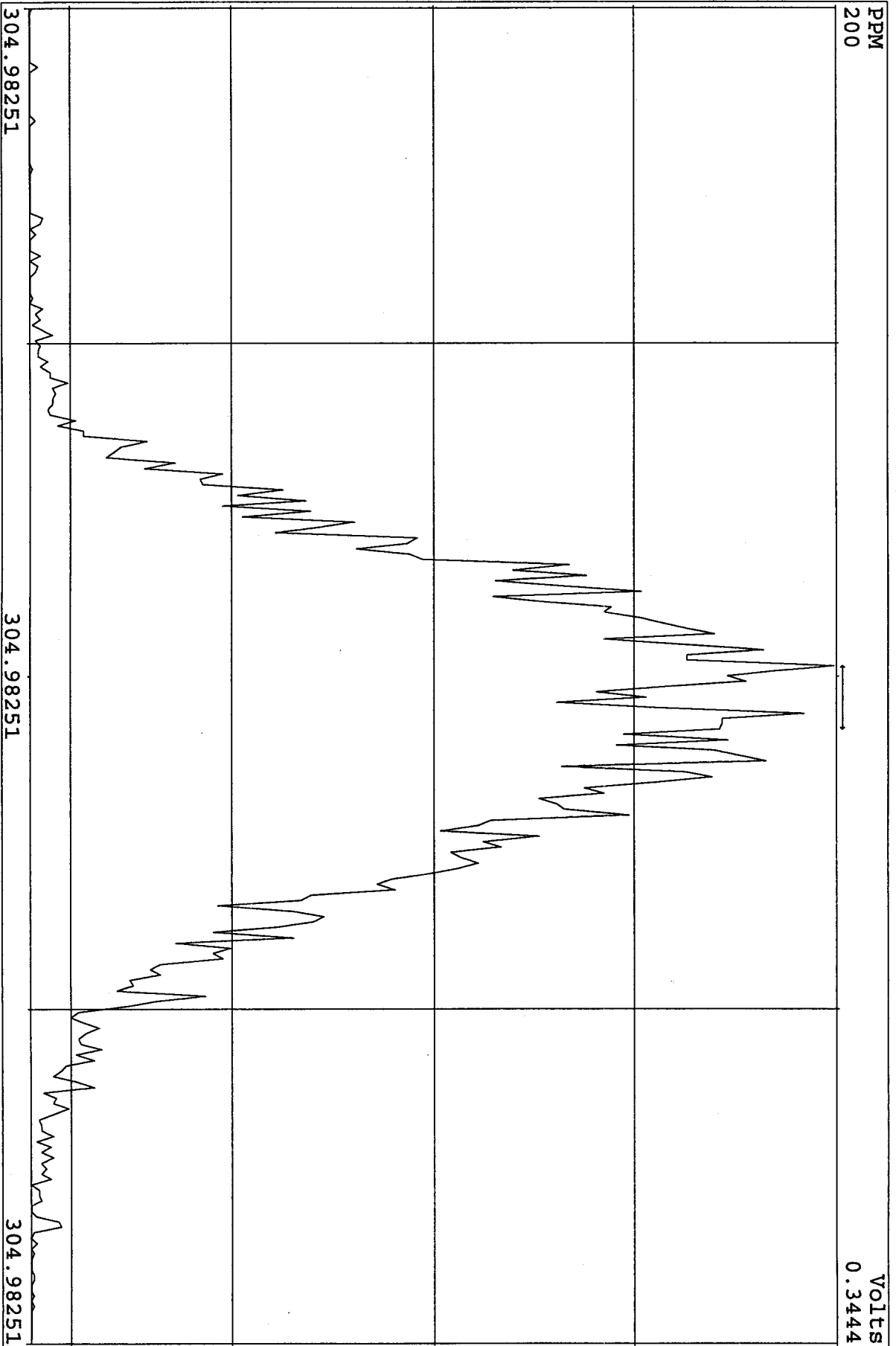
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	69454466	0.80 y	20:02	-	100.00	-	n
13C-2,3,7,8-TCDF	84140020	0.82 y	19:26	1.21	100.00	-1.5	n
2,3,7,8-TCDF	8886367	0.76 y	19:27	1.06	10.00	6.2	n
Total TCDF	9069143	0.26 n	16:51	1.06	10.00	6.2	n
13C-2,3,7,8-TCDD	64889190	0.80 y	20:15	0.93	100.00	3.2	n
2,3,7,8-TCDD	6617552	0.82 y	20:17	1.02	10.00	3.7	n
Total TCDD	6698814	1.39 n	18:59	1.02	10.00	3.7	n
37Cl-2,3,7,8-TCDD	8452341	1.00 y	20:16	1.30	10.00	-1.8	n
13C-1,2,3,7,8-PeCDF	63792632	1.54 y	25:19	0.92	100.00	4.8	n
1,2,3,7,8-PeCDF	36800376	1.53 y	25:21	1.15	50.00	7.2	n
2,3,4,7,8-PeCDF	36178487	1.53 y	26:54	1.13	50.00	8.5	n
Total F2 PeCDF	73907936	1.78 n	23:46	1.14	100.00	7.8	n
Total F1 PeCDF	8460	0.25 n	15:48	1.14	100.00	7.8	n
13C-1,2,3,7,8-PeCDD	47670778	1.55 y	27:44	0.69	100.00	3.9	n
1,2,3,7,8-PeCDD	24105343	1.45 y	27:46	1.01	50.00	9.3	n
Total PeCDD	24174137	1.45 y	27:46	1.01	50.00	9.3	n
13C-1,2,3,7,8,9-HxCDD	49381080	1.29 y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	51447356	0.51 y	32:17	1.04	100.00	-0.3	n
1,2,3,4,7,8-HxCDF	31893023	1.16 y	32:18	1.24	50.00	1.9	n
1,2,3,6,7,8-HxCDF	35316072	1.16 y	32:24	1.37	50.00	7.1	n
2,3,4,6,7,8-HxCDF	33556874	1.16 y	32:55	1.30	50.00	5.8	n
1,2,3,7,8,9-HxCDF	28467472	1.14 y	33:33	1.11	50.00	0.8	n
Total HxCDF	129295705	1.28 y	31:18	1.26	200.00	4.0	n
13C-1,2,3,6,7,8-HxCDD	46642098	1.28 y	33:07	0.94	100.00	13.7	n
1,2,3,4,7,8-HxCDD	22341101	1.24 y	33:04	0.96	50.00	-7.6	n
1,2,3,6,7,8-HxCDD	26380434	1.29 y	33:08	1.13	50.00	-2.7	n
1,2,3,7,8,9-HxCDD	25494863	1.26 y	33:23	1.09	50.00	-7.5	n
Total HxCDD	74377456	1.24 y	33:04	1.06	150.00	-5.9	n
13C-1,2,3,4,6,7,8-HpCDF	41003811	0.43 y	34:52	0.83	100.00	-8.8	n
1,2,3,4,6,7,8-HpCDF	29965449	1.04 y	34:53	1.46	50.00	8.6	n
1,2,3,4,7,8,9-HpCDF	24982774	1.05 y	36:03	1.22	50.00	11.4	n
Total HpCDF	54948223	1.04 y	34:53	1.34	100.00	9.9	n
13C-1,2,3,4,6,7,8-HpCDD	38295932	1.04 y	35:41	0.78	100.00	-6.2	n
1,2,3,4,6,7,8-HpCDD	20966530	1.04 y	35:42	1.09	50.00	2.2	n
Total HpCDD	21107330	1.01 y	35:08	1.09	50.00	2.2	n
13C-OCDD	55476794	0.89 y	38:16	0.56	200.00	-9.4	n
OCDF	41142306	0.89 y	38:23	1.48	100.00	8.2	n
OCDD	34491339	0.91 y	38:17	1.24	100.00	3.7	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
28OC104D5	1	CP1028	DB-5 CPSM 3732-10				1.00000	
28OC104D5	2	ST1028	CS3 10DXN461				1.00000	
28OC104D5	3	L8V09-1-AA	G0J210484-11MB	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	4	L77J6-1-AA	G0J080613-13	20	8290/WASTE	83	0.10300	g
28OC104D5	5	L8RK4-1-AC	F0J140526-1LCS))	20	8290/SOLID	91	10.00000	g
28OC104D5	6	ST1028A	CS3 10DXN461				1.00000	
28OC104D5	7	CP1028A	DB-5 CPSM 3732-10				1.00000	
28OC104D5	8	L79L8-1-AA	G0J060523-1MB	20	23/AIR	81	0.33333	SAM
28OC104D5	9	L73G1-1-AC	G0J060523-1	20	23/AIR		0.33333	SAM
28OC104D5	10	L77JJ-2-AA	G0J080611-10RX	20	8290/SOLID	93	1.37000	g
28OC104D5	11	L77JK-2-AA	G0J080611-11RX	20	8290/SOLID		1.12000	g
28OC104D5	12	L77JL-2-AA	G0J080611-12RX	20	8290/SOLID		1.38000	g
28OC104D5	13	L8L6C-1-AA	G0J170406-9	20	8290/SOLID	91	0.50000	SAM
28OC104D5	14	L8L6D-1-AA	G0J170406-10	20	8290/SOLID		0.50000	SAM
28OC104D5	15	L8L6E-1-AA	G0J170406-11	20	8290/SOLID		0.50000	SAM
28OC104D5	16	L79L8-1-AC	G0J060523-1LCS	20	23/AIR	81	0.33333	SAM
28OC104D5	17	ST1028B	CS3 10DXN461				1.00000	
28OC104D5	18	SB1028	Solvent Blank C-14				1.00000	
28OC104D5	19	L8V09-1-AC	G0J210484-11LCS	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	20	L8V09-1-AD	G0J210484-11DCS	20	TO9/AIR		0.50000	SAM
28OC104D5	21	L8VH6-1-AA	G0J210484-11	20	TO9/AIR		0.50000	SAM
28OC104D5	22	L8VH8-1-AA	G0J210484-13	20	TO9/AIR		0.50000	SAM
28OC104D5	23	L8VH9-1-AA	G0J210484-14	20	TO9/AIR		0.50000	SAM
28OC104D5	24	L8VJE-1-AA	G0J210484-17	20	TO9/AIR		0.50000	SAM
28OC104D5	25	L8E9J-1-A3	G0J130451-3 (20X)	20	8290/SOLID	89	10.06000	g
28OC104D5	26	L8E9G-1-AU	G0J130451-1 (10X)	20	8290/SOLID		9.95000	g
28OC104D5	27	L819T-1-AA	G0J230497-17	20	8290/WATER	93B	1.04142	L
28OC104D5	28	L82Q9-1-AC	G0J230497-17LCS	20	8290/WATER		1.00000	L
28OC104D5	29	L82Q9-1-AA	G0J230497-17MB	20	8290/WATER		1.00000	L
28OC104D5	30	ST1028C	CS3 10DXN461				1.00000	
28OC104D5	31	CP1028A	DB-5 CPSM 3732-10				1.00000	
28OC104D5	32	SB1028A	Solvent Blank C-14				1.00000	
28OC104D5	33	L8VH6-1-AA	G0J210484-11 RI	20	TO9/AIR	93B	0.50000	SAM
28OC104D5	34	L8VH8-1-AA	G0J210484-13 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	35	L8VH9-1-AA	G0J210484-14 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	36	L8VJE-1-AA	G0J210484-17 RI	20	TO9/AIR		0.50000	SAM
28OC104D5	37	L819T-1-AA	G0J230497-17 RI	20	8290/WATER	93B	1.04142	L
28OC104D5	38	SB1028B	Solvent Blank C-14				1.00000	
28OC104D5	39	ST1028D	CS3 10DXN461				1.00000	
28OC104D5	40						0.00000	
28OC104D5	41						0.00000	
28OC104D5	42		AS 10/28/10				0.00000	

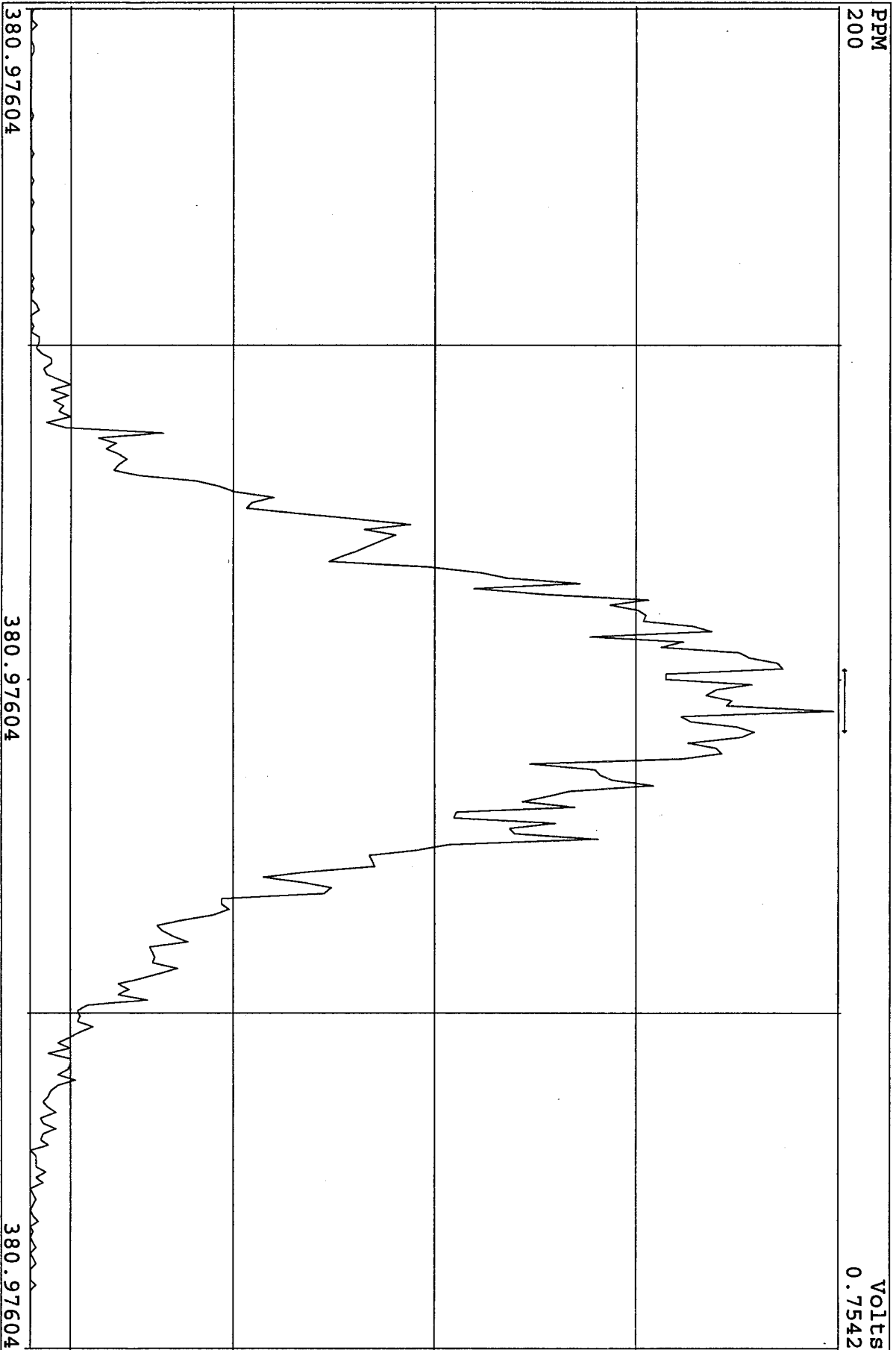
← CPSM - not analyzed due to A/S mis-schedule.

*Logfile vld
10/29/10
KSS*

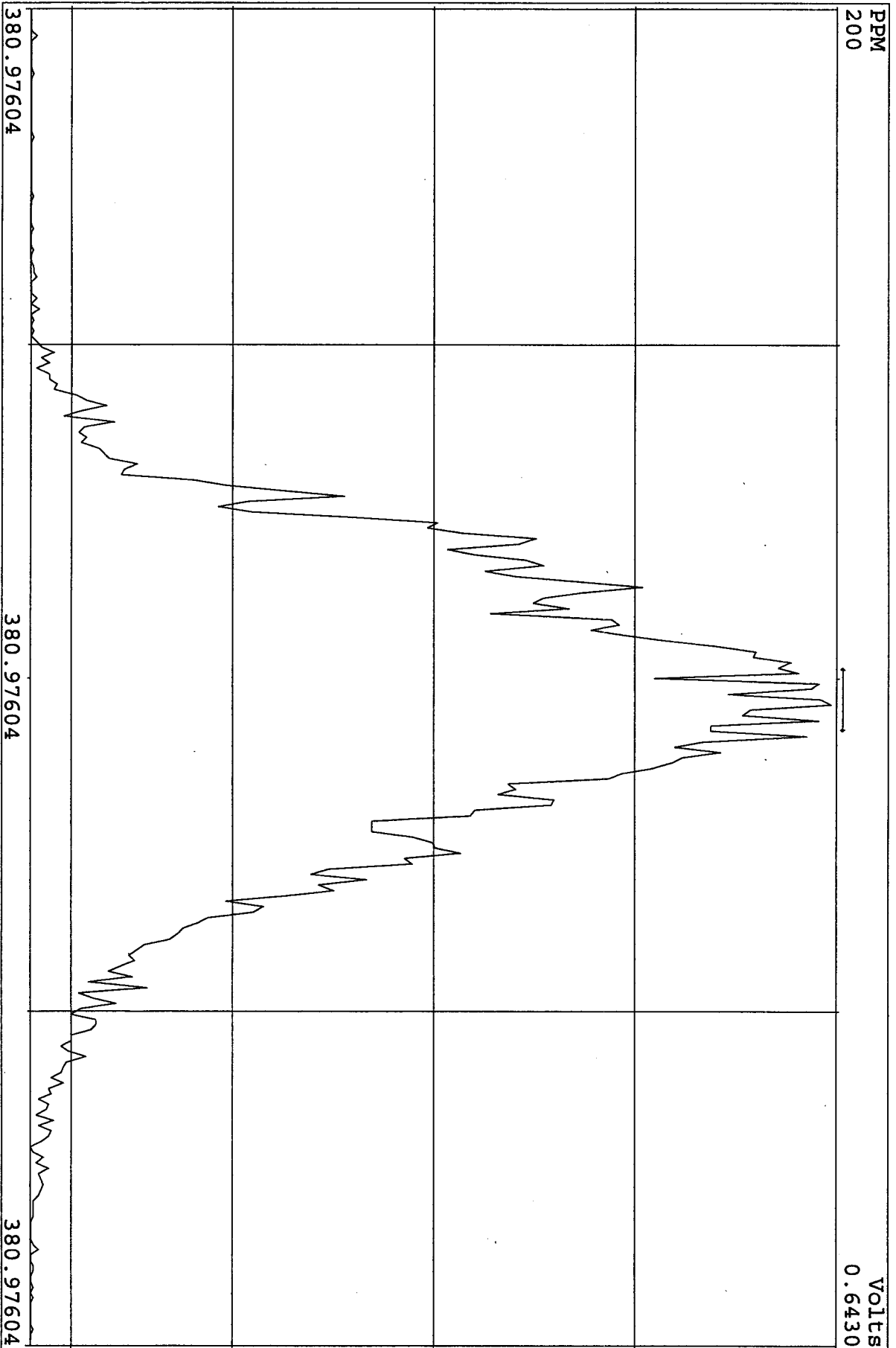
SIRLM Examination: 28-OCT-2010:21:29 File: 280C104D5
Experiment: DIOXINRES Function: 7



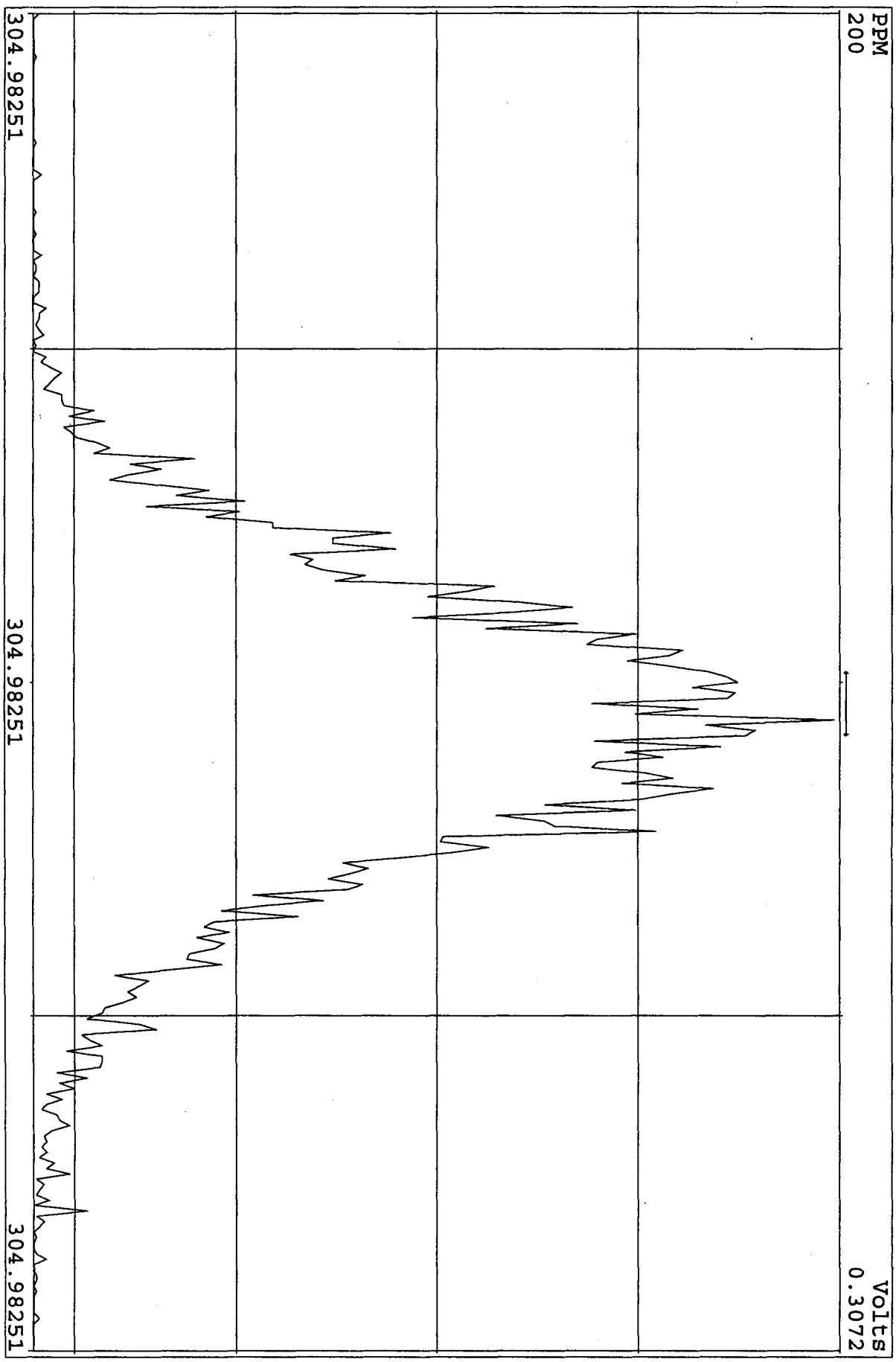
SIRLM Examination: 28-OCT-2010: 21:27 File: 280C104D5
Experiment: DIOXINRES Function: 6



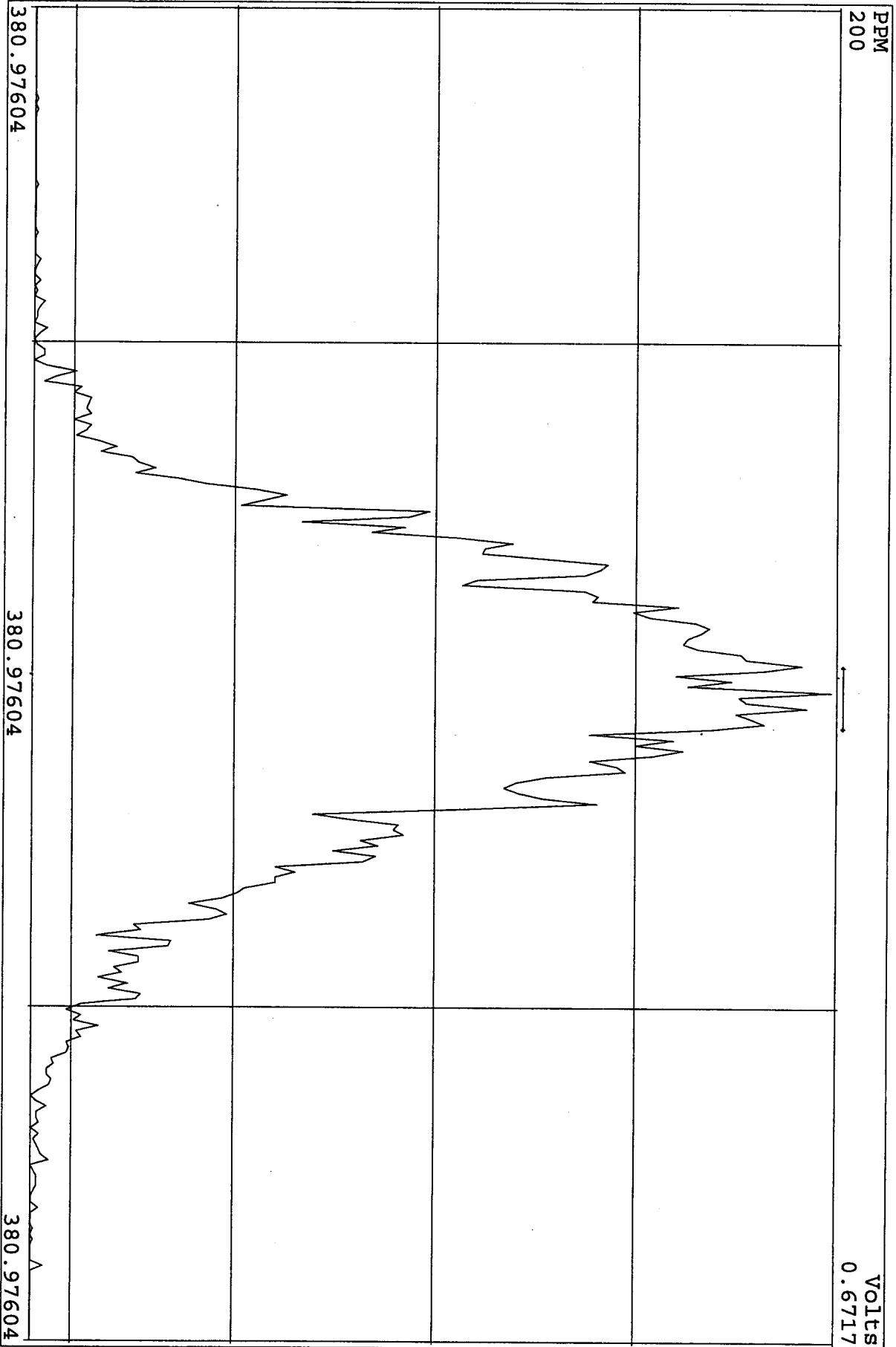
SIRLM Examination: 28-OCT-2010: 22:12 File: 280C104D5
Experiment: DIOXINRES Function: 6



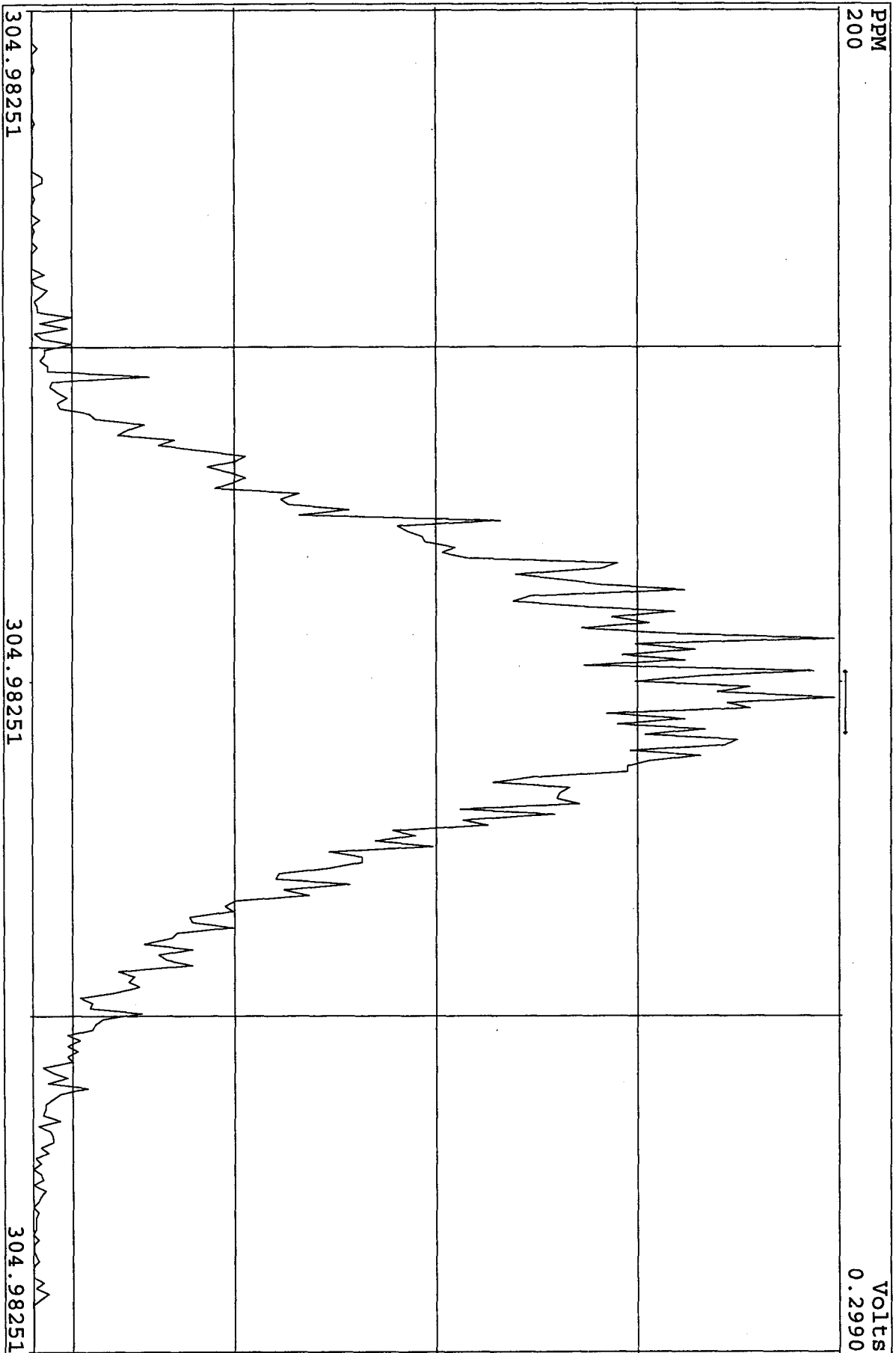
SIRLM Examination: 28-OCT-2010: 22:13 File: 280C104D5
Experiment: DIOXINRES Function: 7



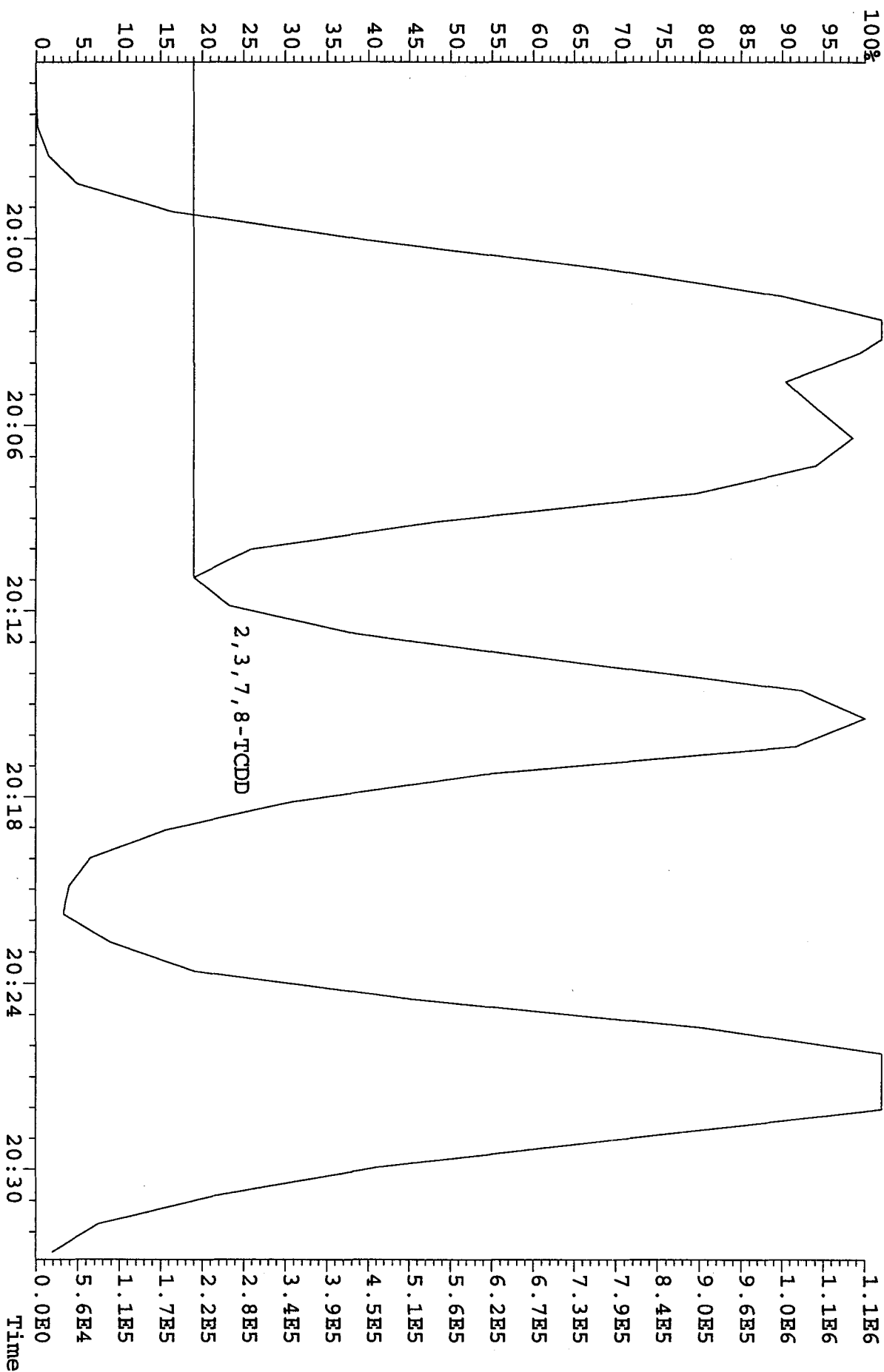
SIRLM Examination: 29-OCT-2010: 08:37 File: 280C104D5
Experiment: DIOXINRES Function: 6



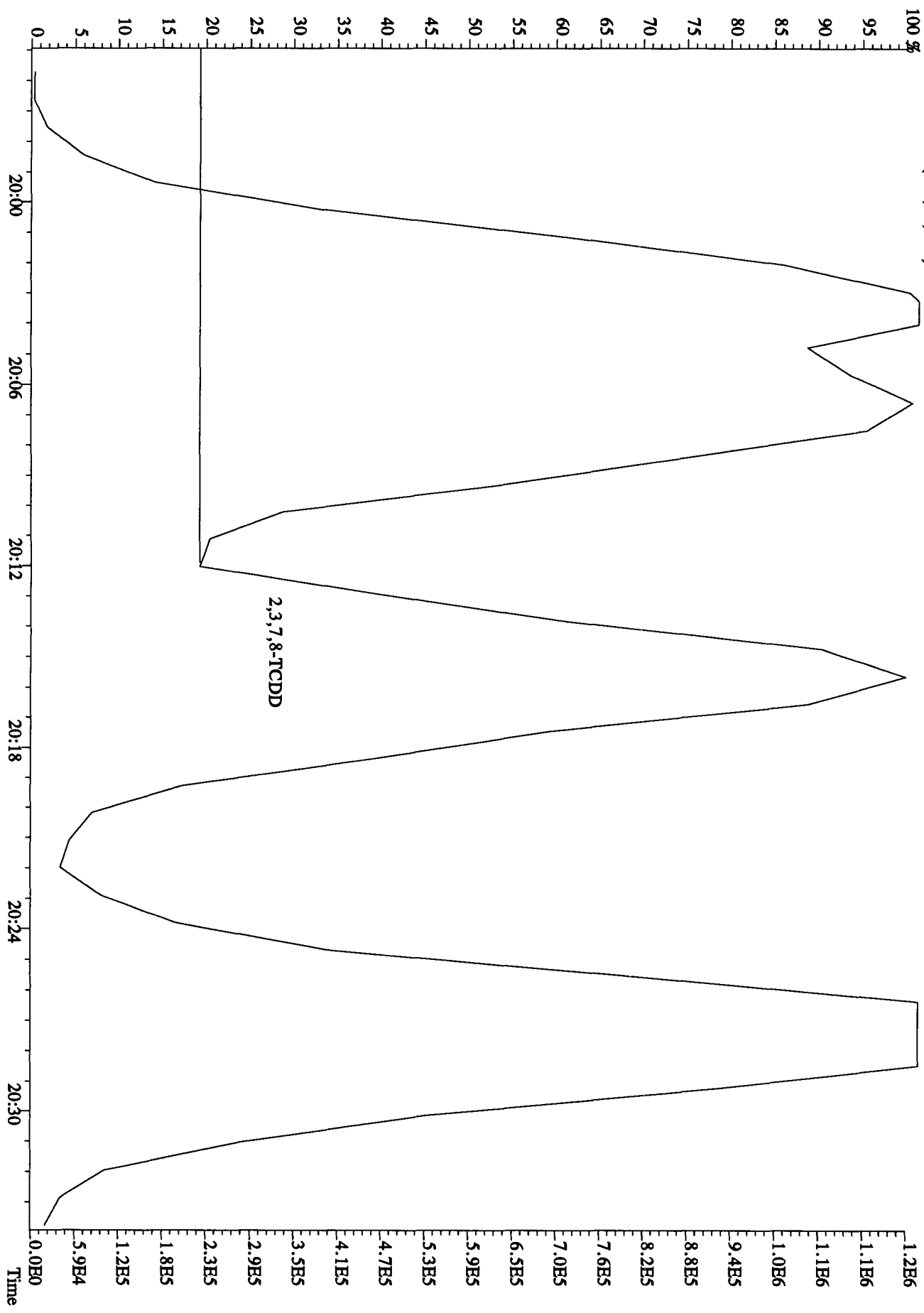
SIRLM Examination: 29-OCT-2010: 08:38 File: 280C104D5
Experiment: DIOXINRES Function: 7



File: 280C104D5 #1-530 Acq: 28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text: CPI028A : DB-5 CPSM 3732-10 Exp: DIOXINRES
 319.8965 S: 7 BSUB(128,15,-3.0)



File:28OC104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 319.8965 S:31 BSUB(128,15,-3,0)



2,3,7,8-TCDD

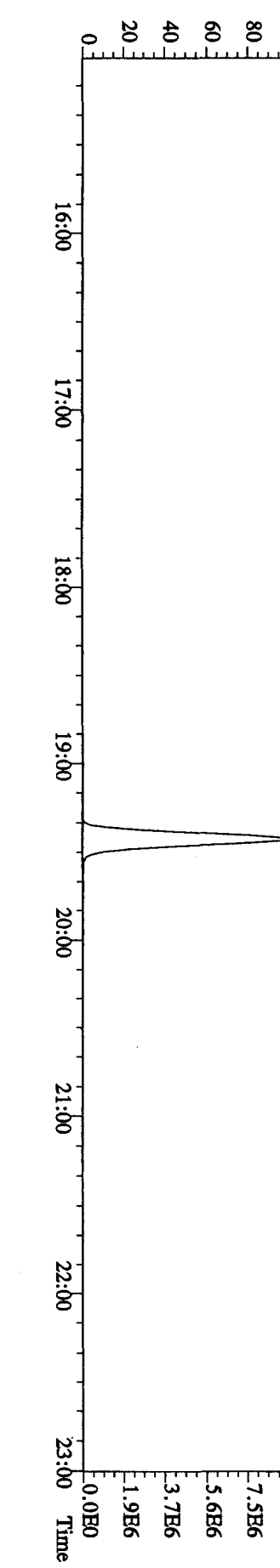
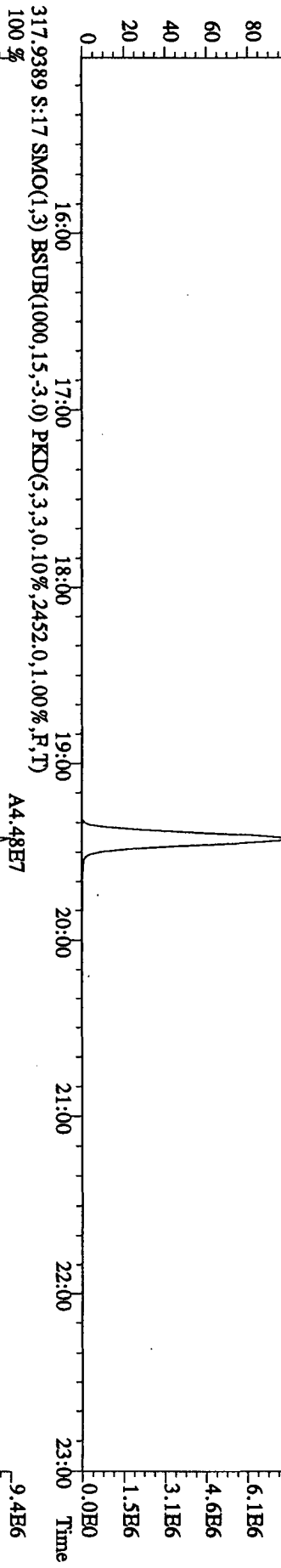
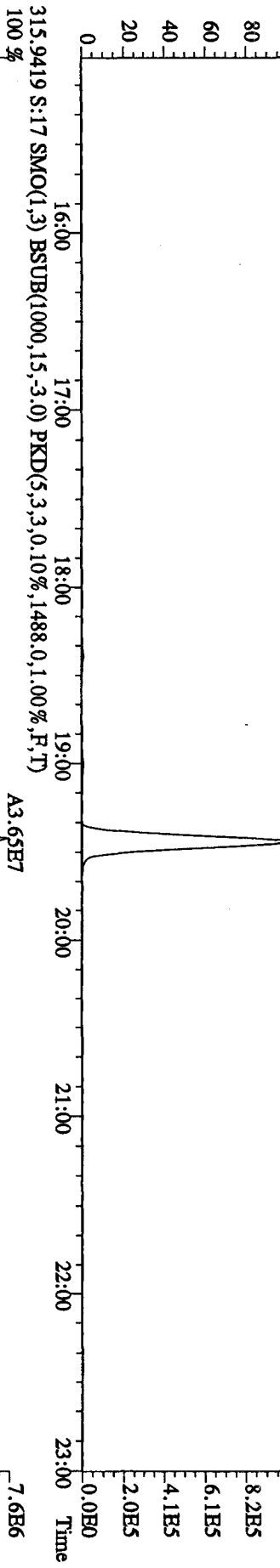
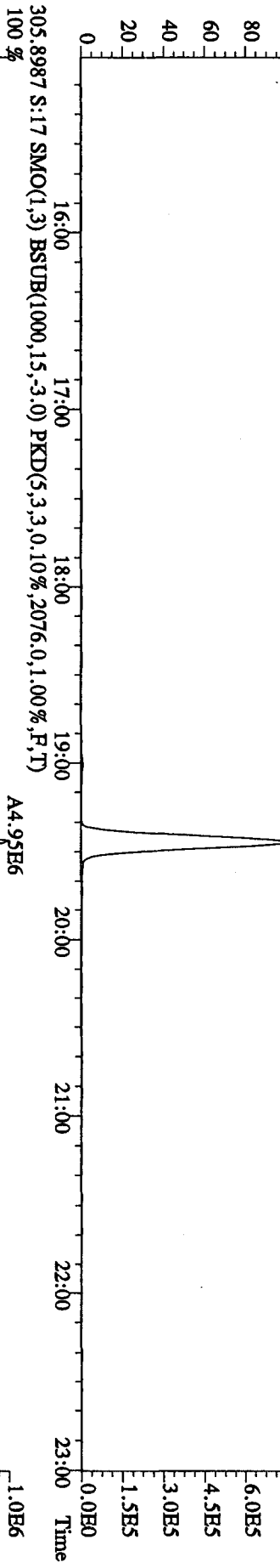
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 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

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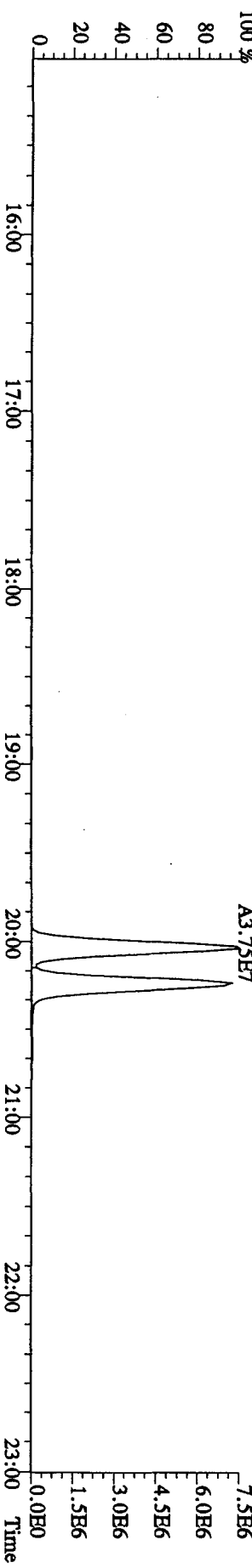
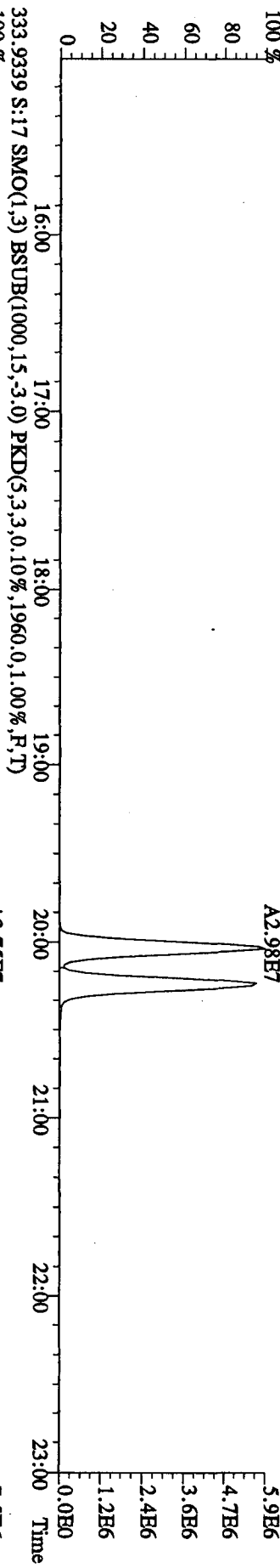
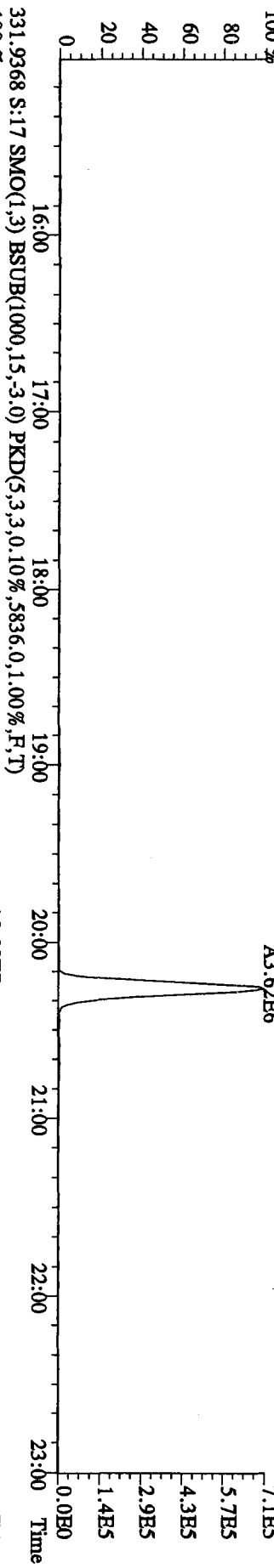
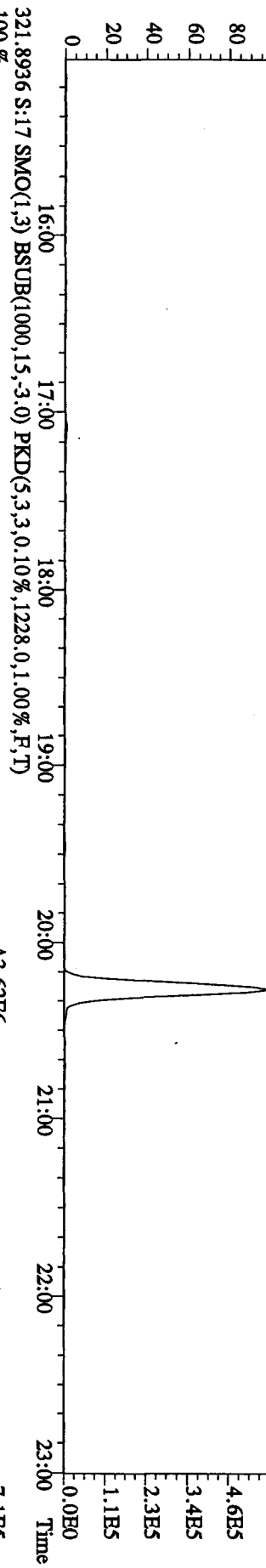
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

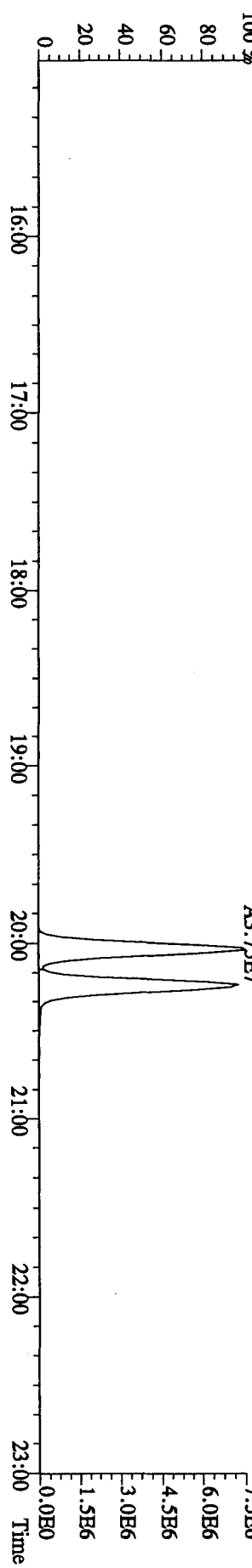
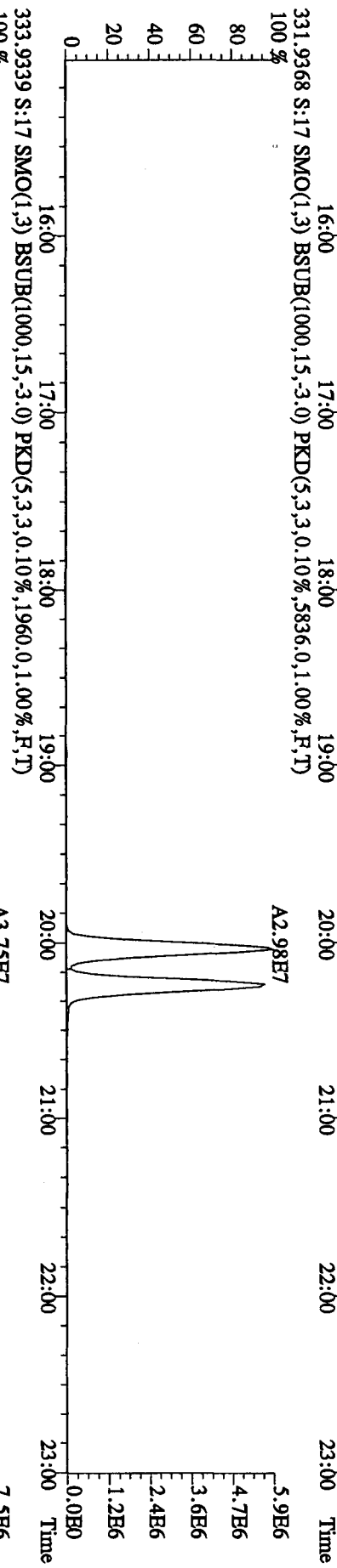
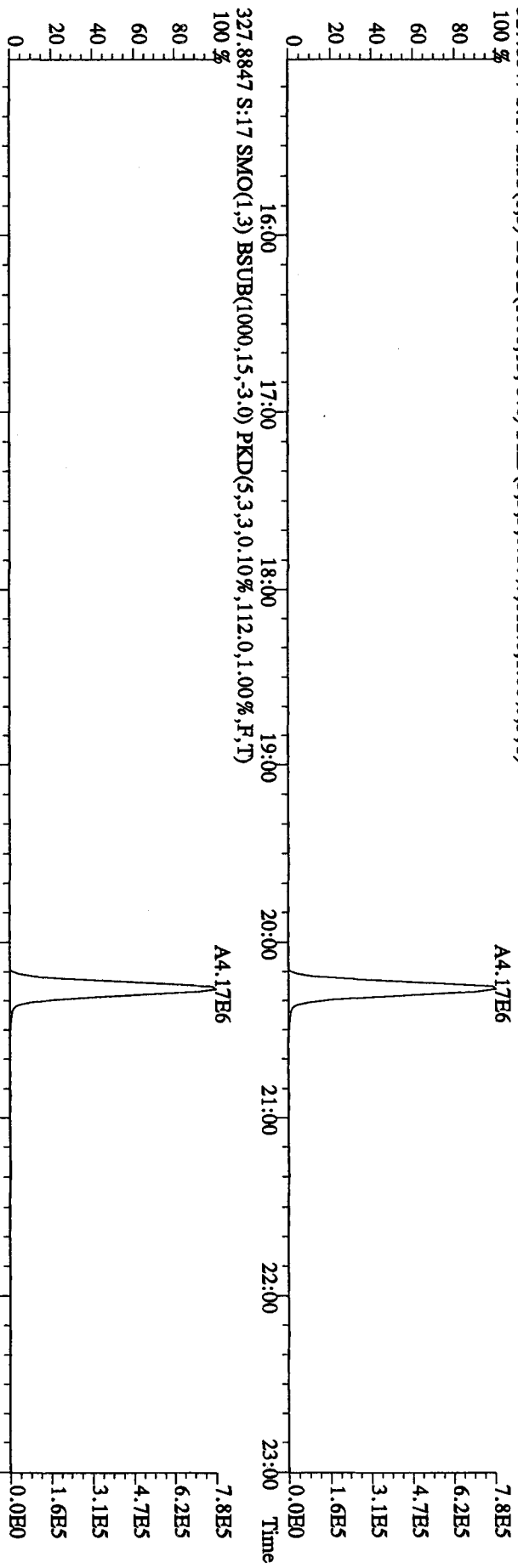
File: 280C104D5 #1-530 Acq: 28-OCT-2010 21:30:12 GC FI + Voltage SIR Autospec-UltimaB
 Sample#17 Text: ST1028B : CS3 10DXN461 Exp: DIOXINRES
 303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1012.0,1.00%,F,T)



File:28OC104D5 #1-530 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltraE
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES
 319.8965 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,904.0,1.00%,F,T)
 100 %



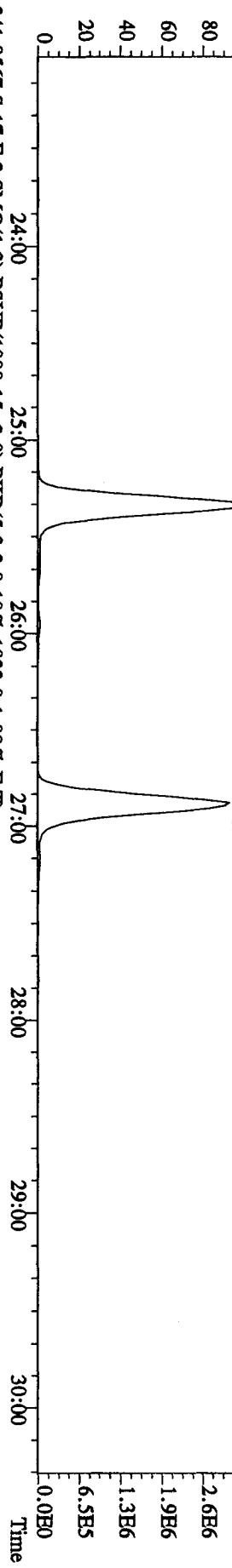
File:28OC104D5 #1-530 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXNRBS
 327.8847 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)
 100%



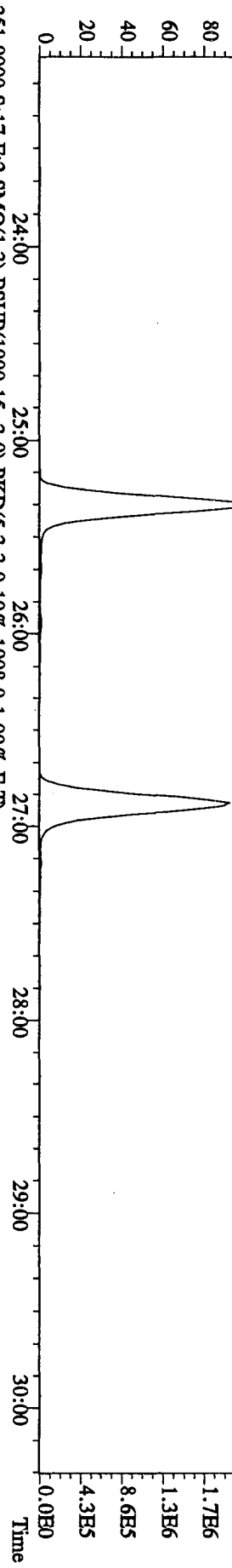
File:280C104D5 #1-470 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaB

Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES

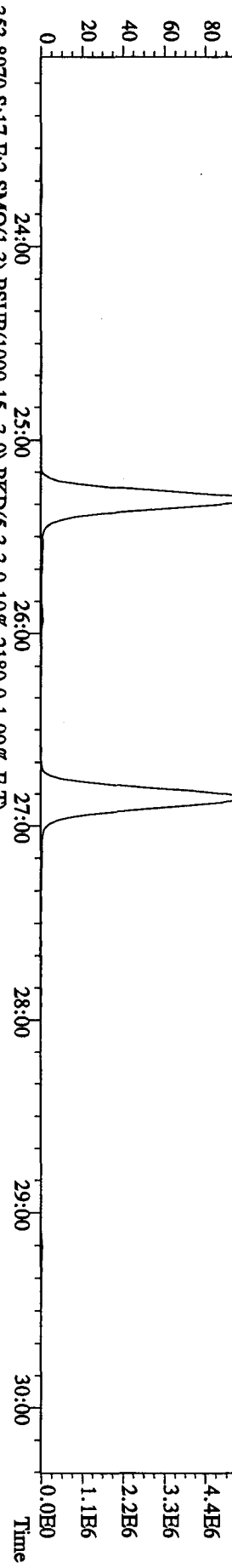
339.8597 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1220.0,1.00%,F,T)



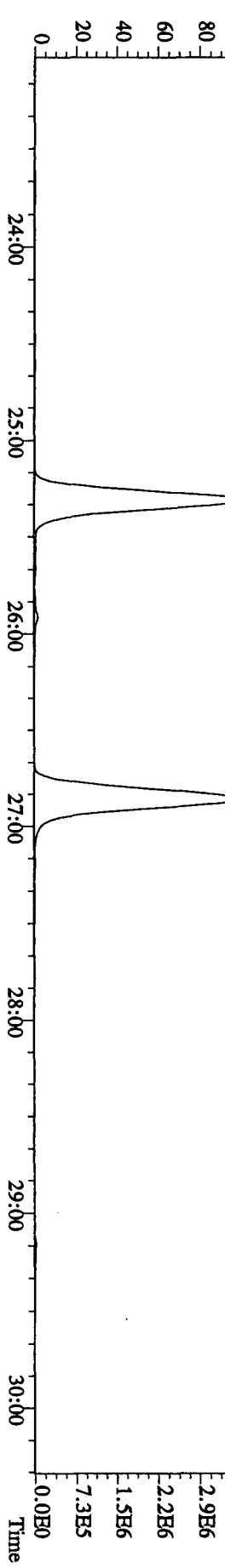
341.8567 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1832.0,1.00%,F,T)



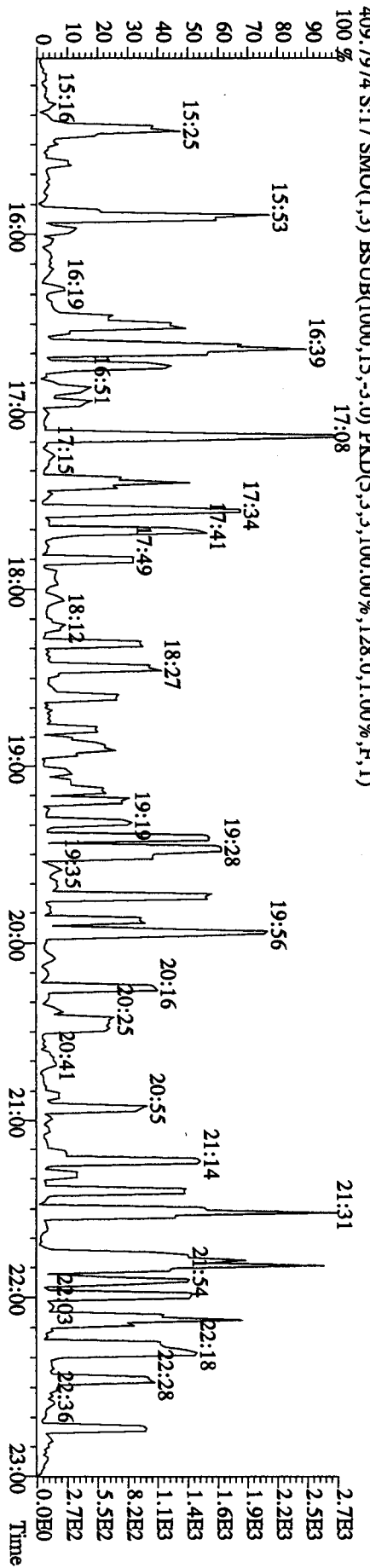
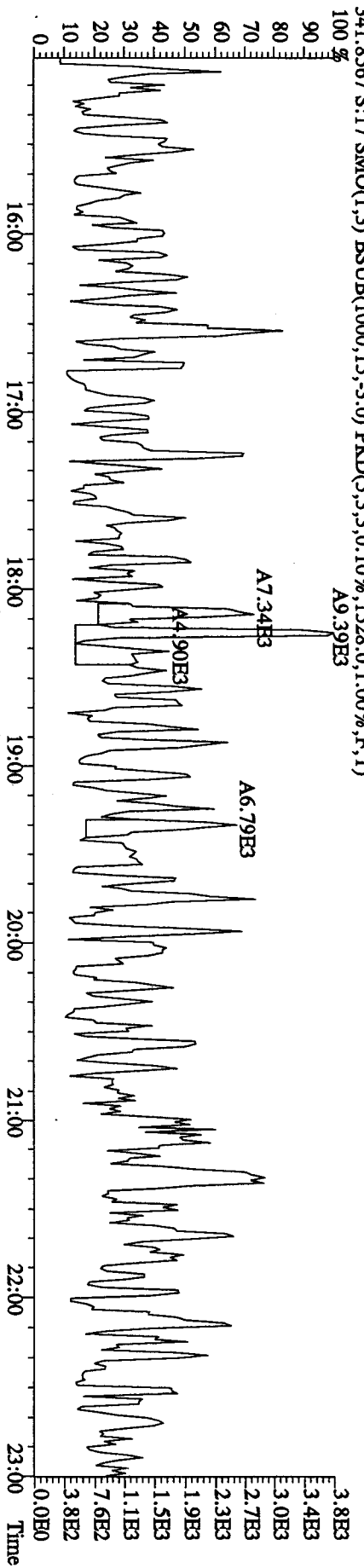
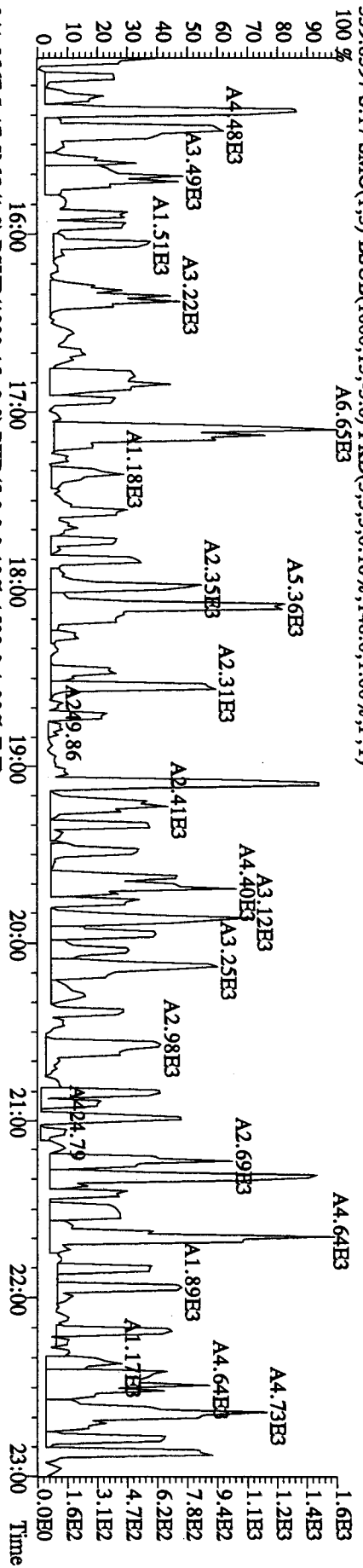
351.9000 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1908.0,1.00%,F,T)



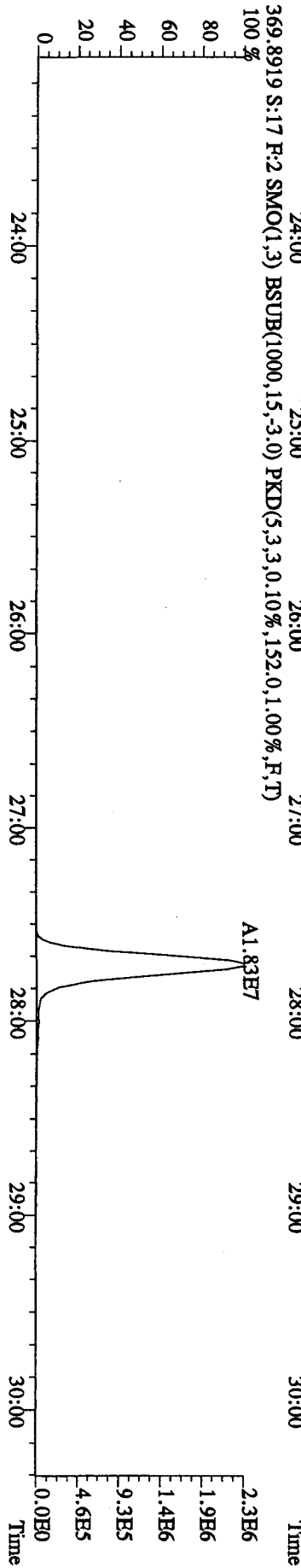
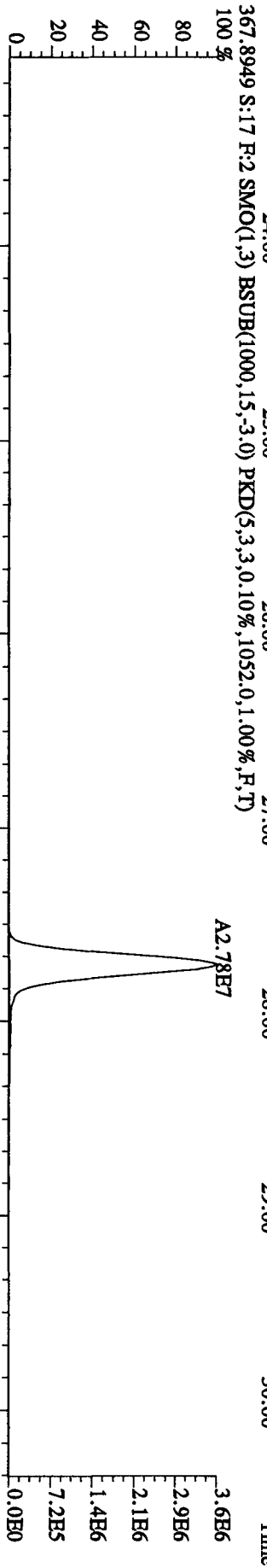
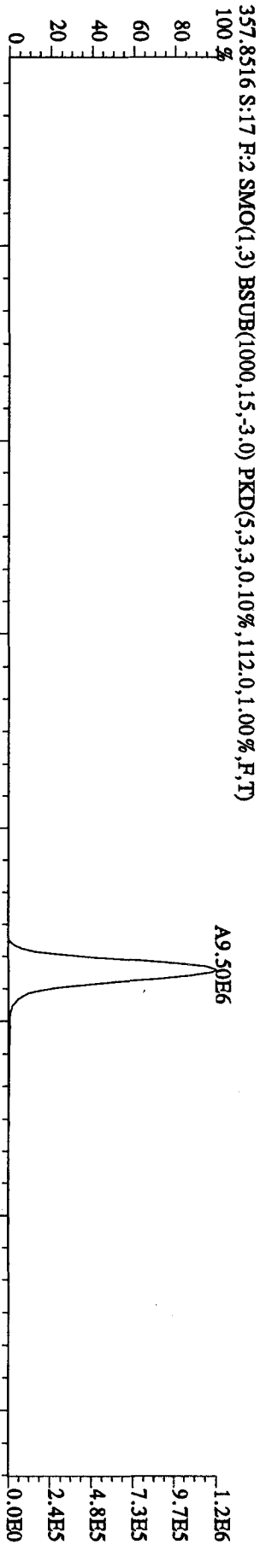
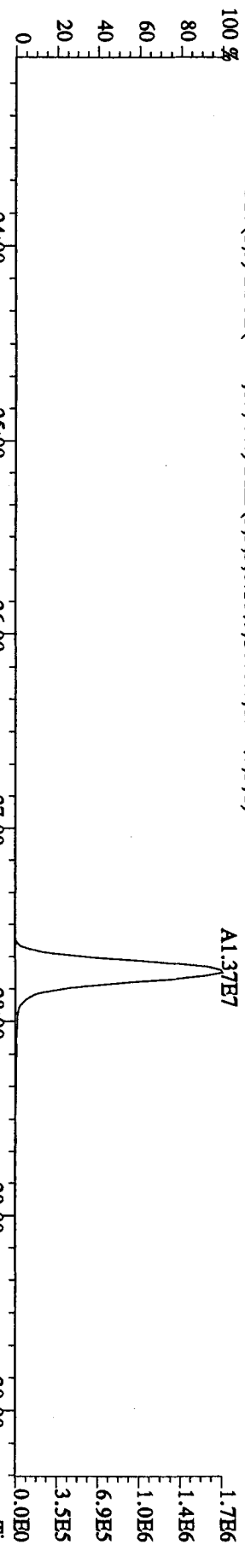
353.8970 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2180.0,1.00%,F,T)



File: 280C104D5 #1-530 Acq: 28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#17 Text: ST1028B :CS3 10DXN461 Exp: DIOXINRES
 339.8597 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)
 409.7974 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)



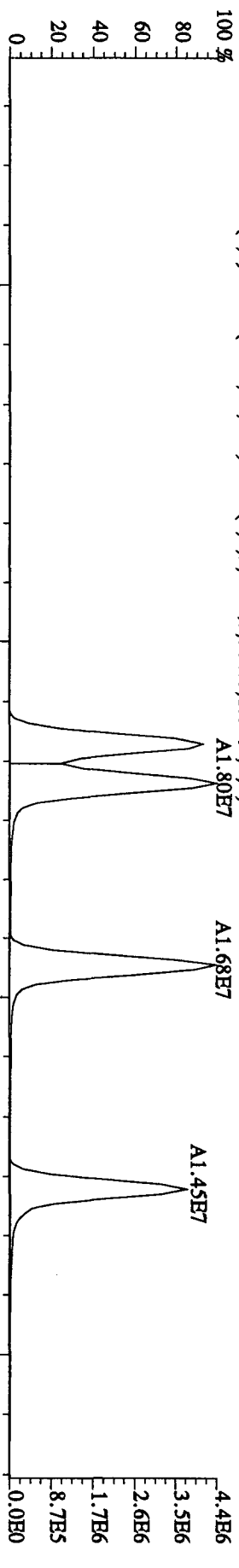
File:28OC104D5 #1-470 Acq:28-OCT-2010 21:30:12 GC-EL+ Voltage SIR Autospec-UltimaB
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES
 355.8546 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1608.0,1.00%,F,T)



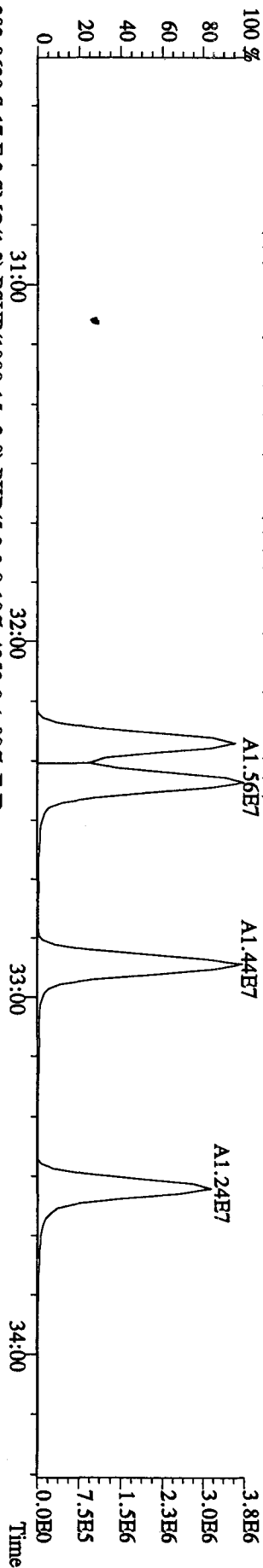
File:280C104D5 #1-287 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES

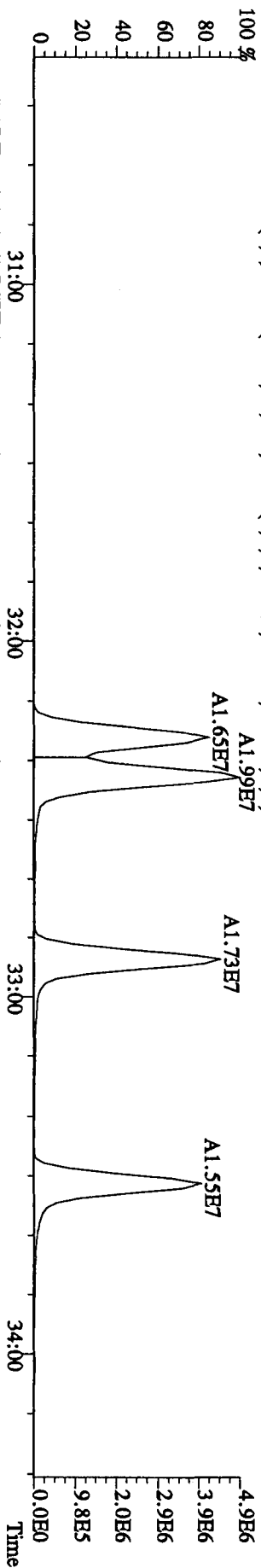
373.8208 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)



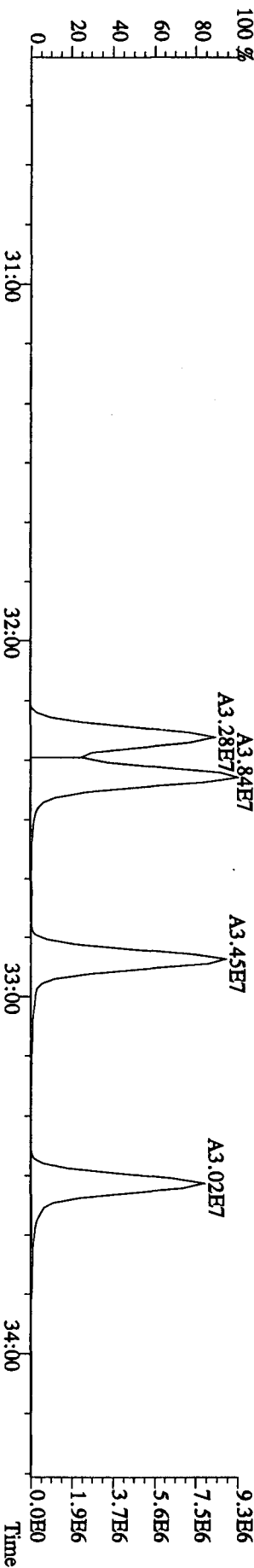
375.8178 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)



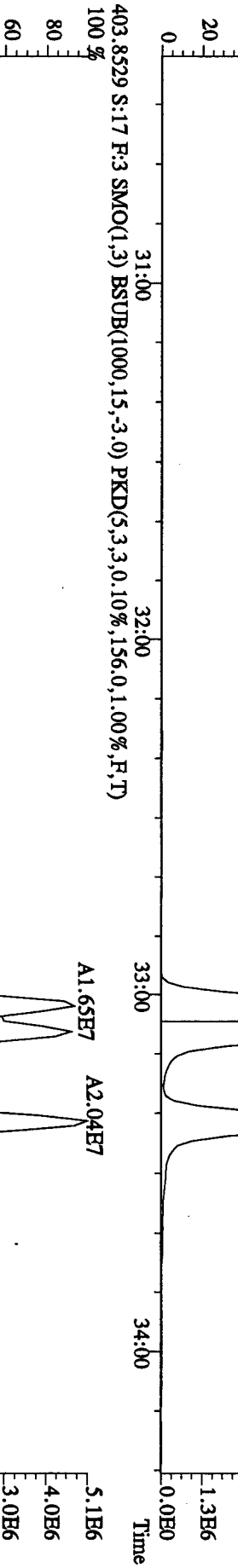
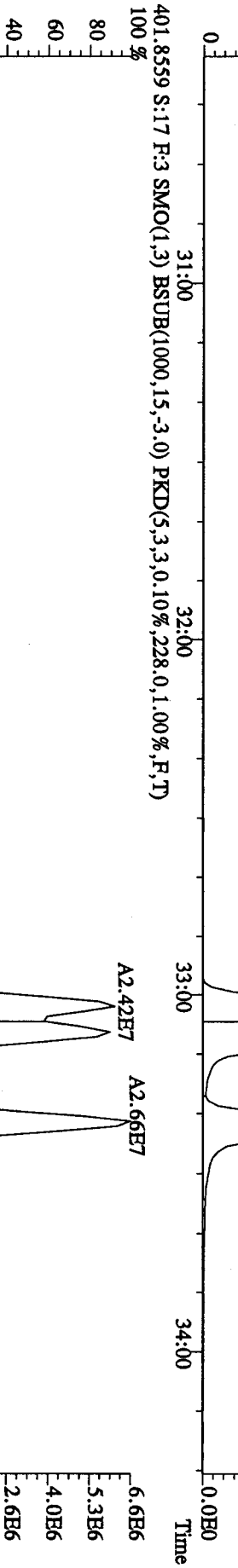
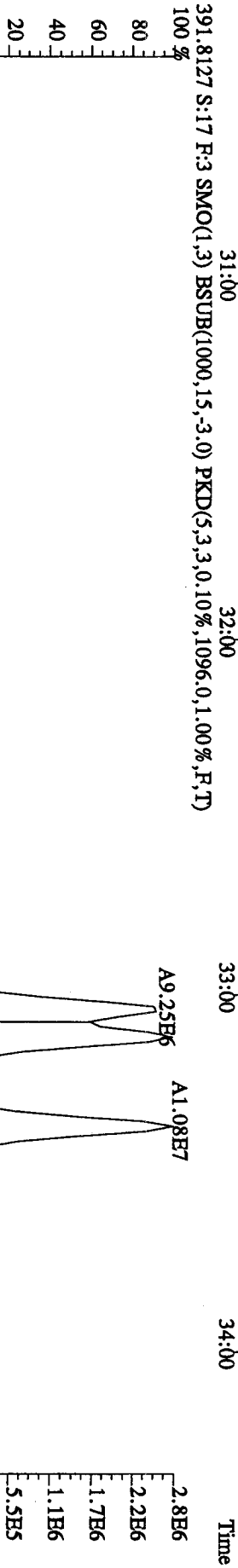
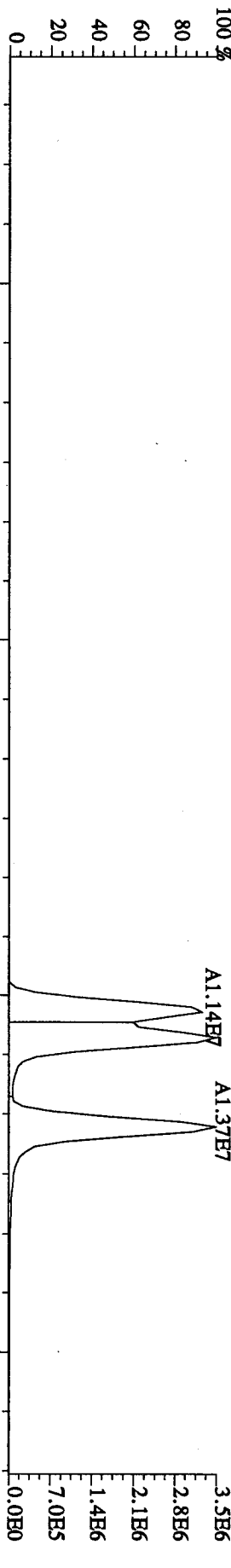
383.8639 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4252.0,1.00%,F,T)



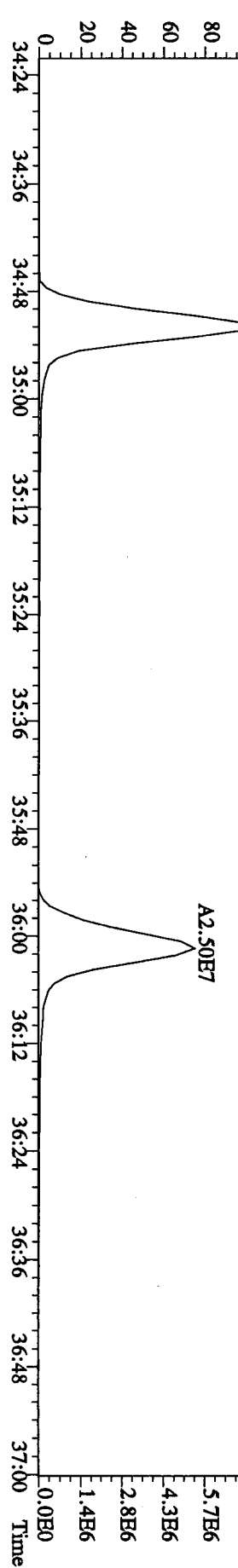
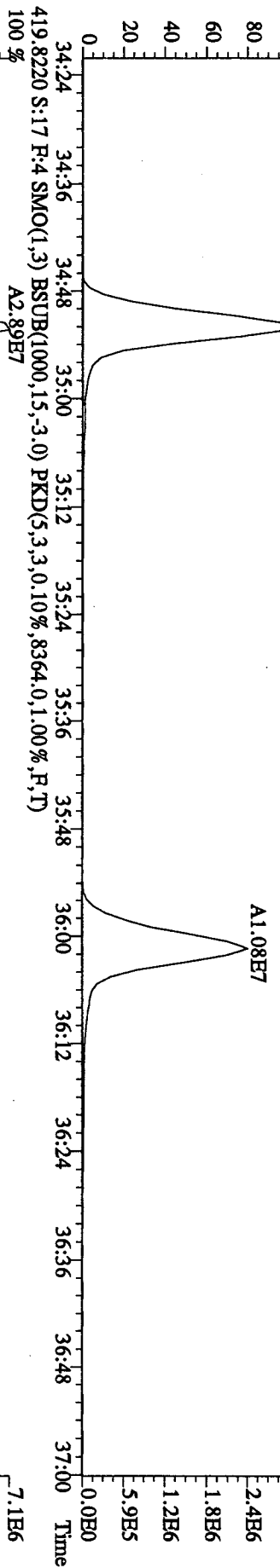
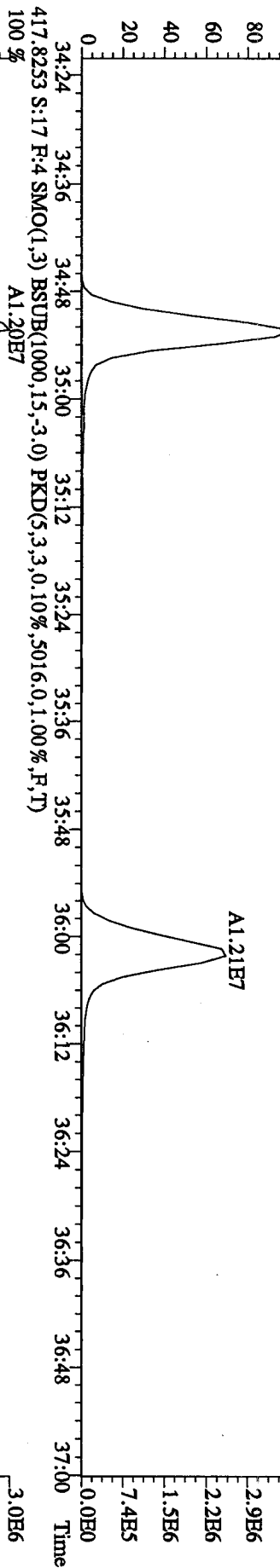
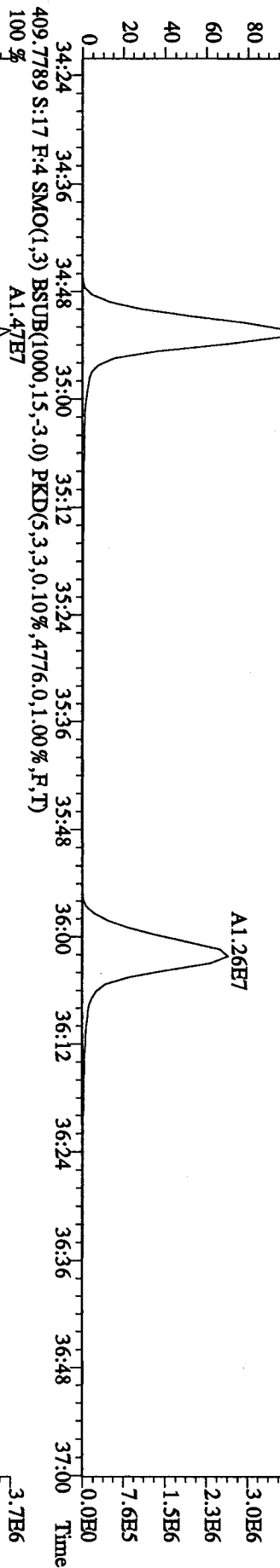
385.8610 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1968.0,1.00%,F,T)



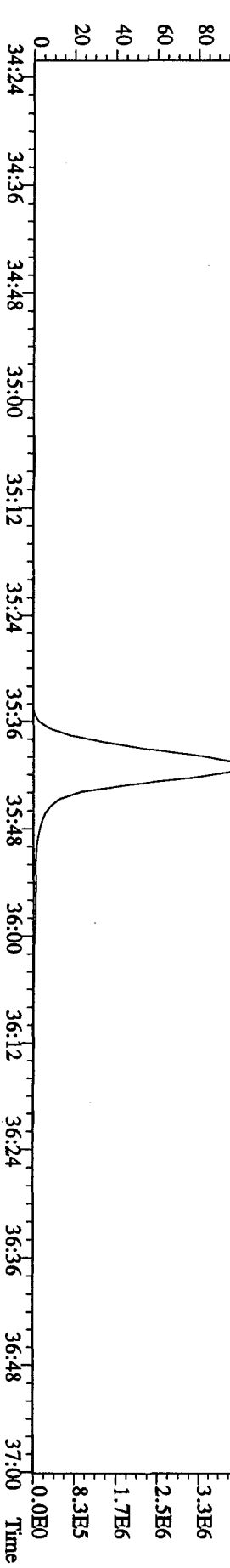
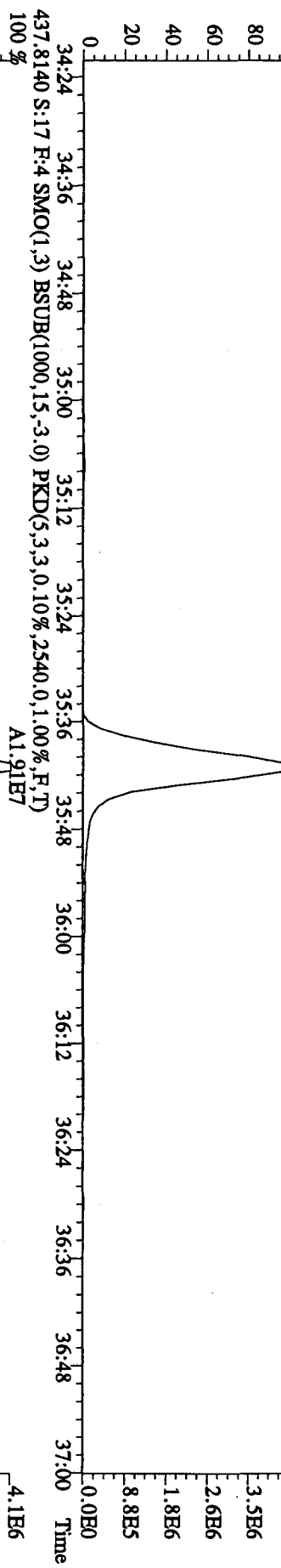
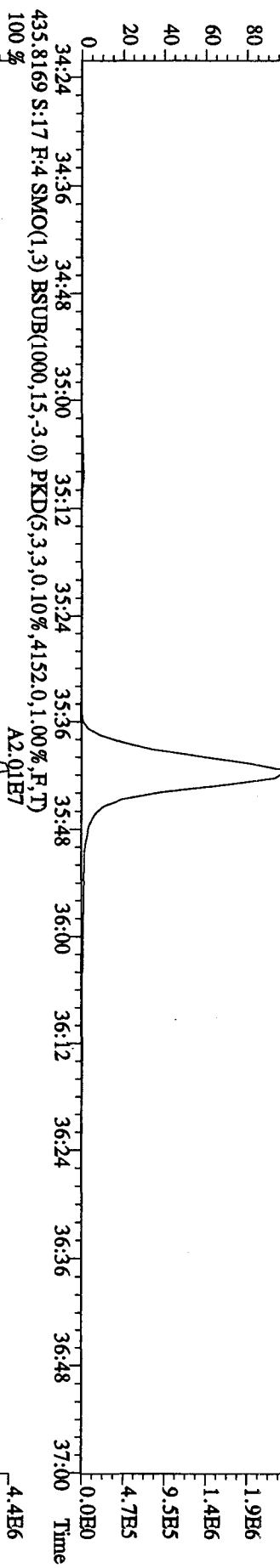
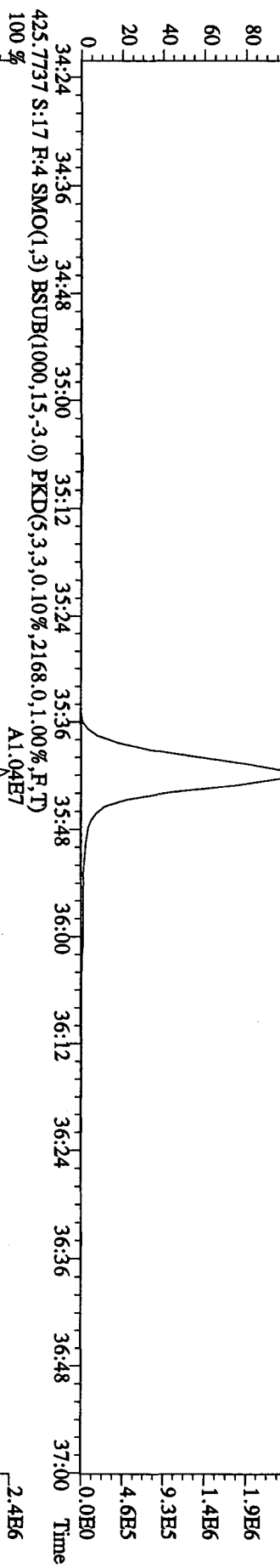
File:280C104D5 #1-287 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXNRES
 389.8157 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)
 100%



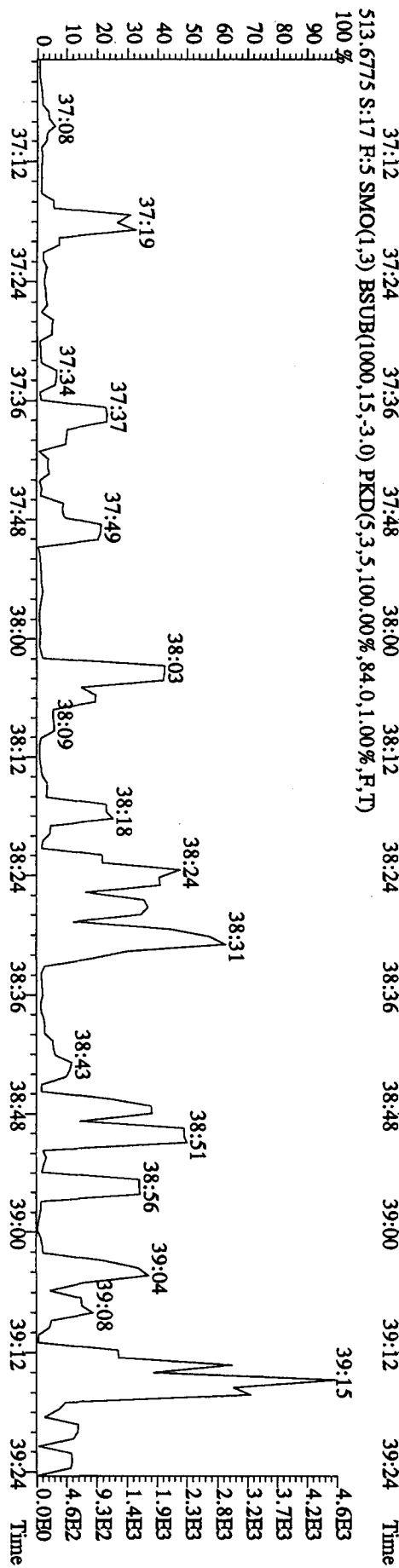
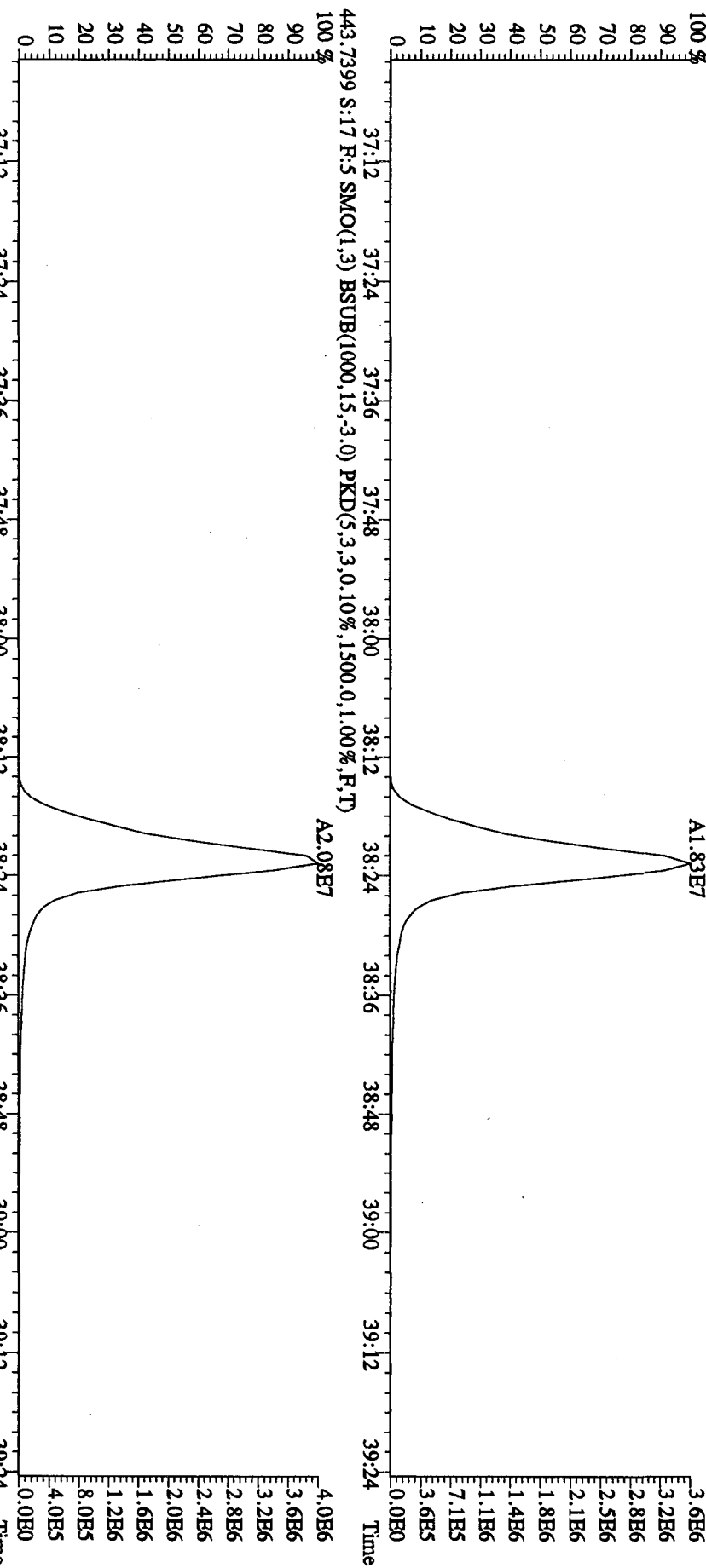
File:28OC104D5 #1-200 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES
 407.7818 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6612.0,1.00%,F,T)
 100%



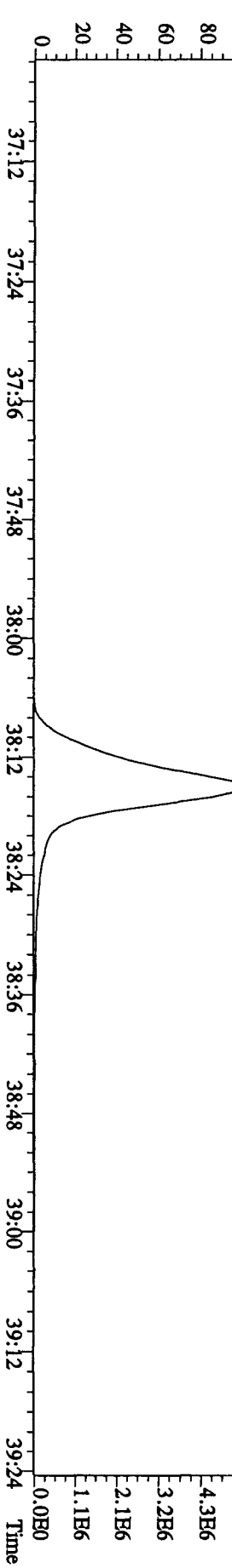
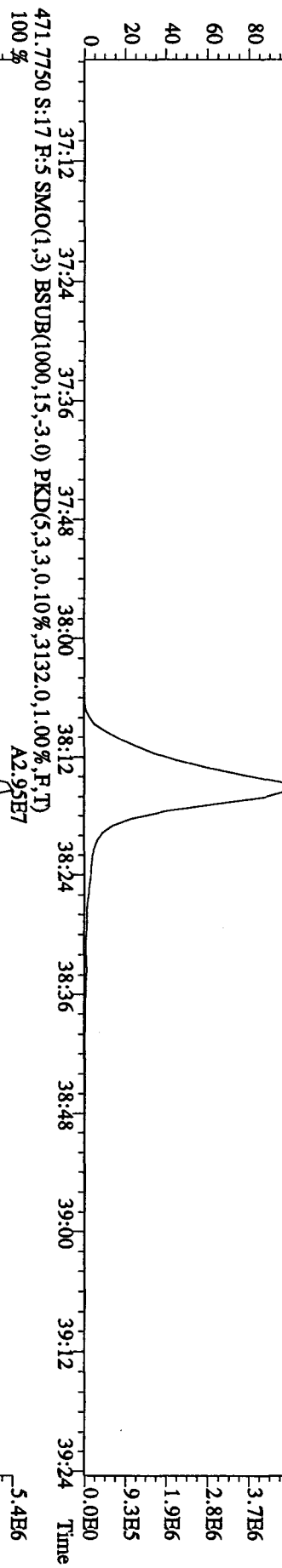
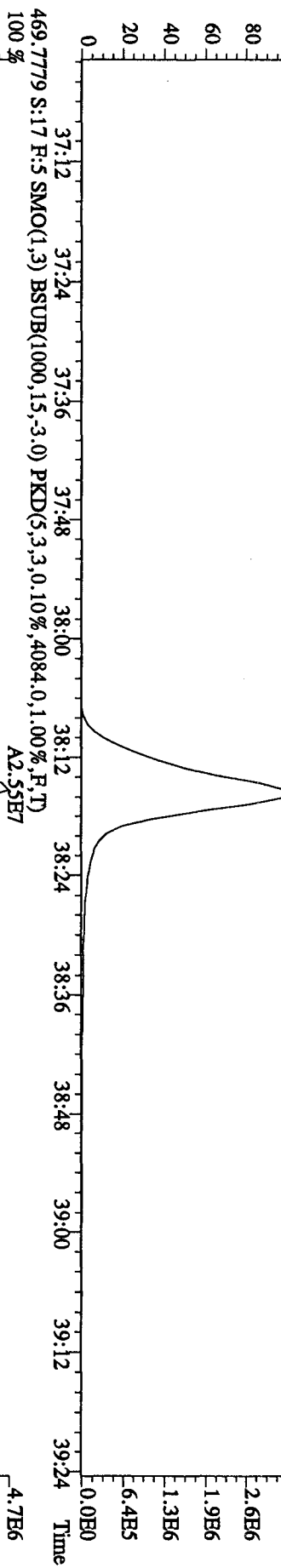
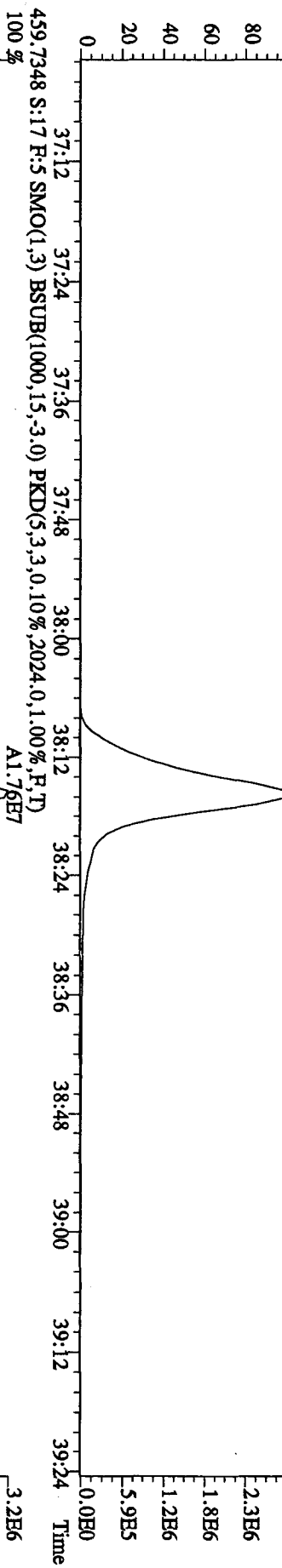
File:28OC104D5 #1-200 Acq:28-OCT-2010 21:30:12 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES
 423.7766 S:17 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2296,0,1.00%,F,T)
 100%



File:28OC104D5 #1-193 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#17 Text:ST1028B :CS3 10DDYN461 Exp:DIOXINRES
 441.7428 S:17 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2388,0,1,00%,F,T)

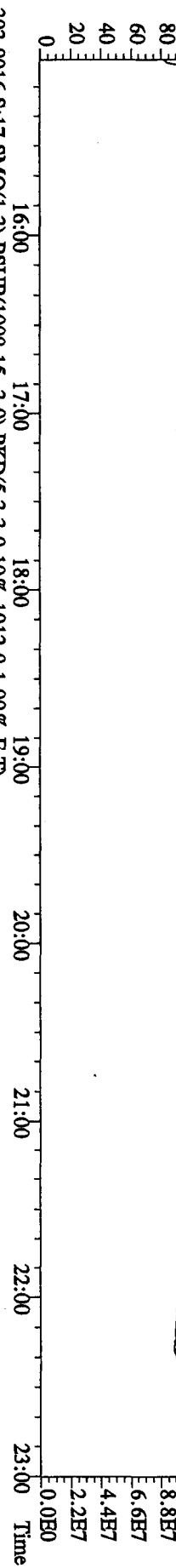


File:280C104D5 #1-193 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES
 457.7377 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2456.0,1.00%,F,T)
 100% A1.60E7



Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES

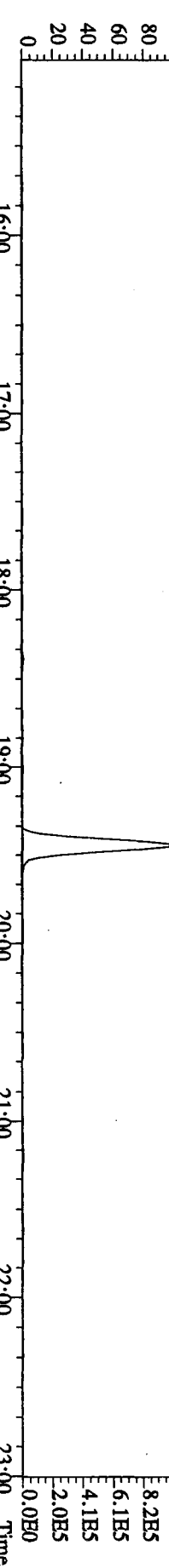
292.9825 S:17 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



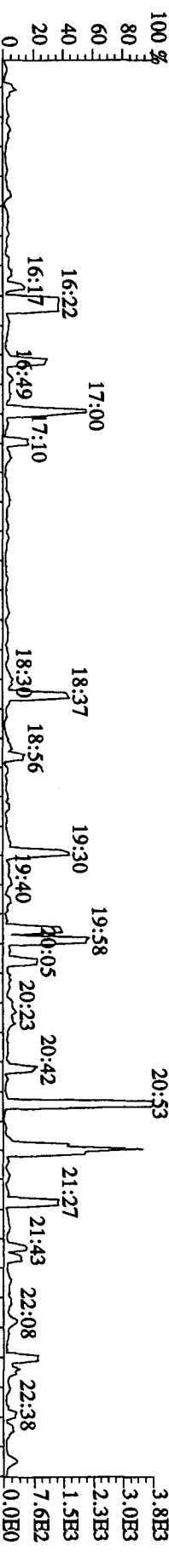
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)



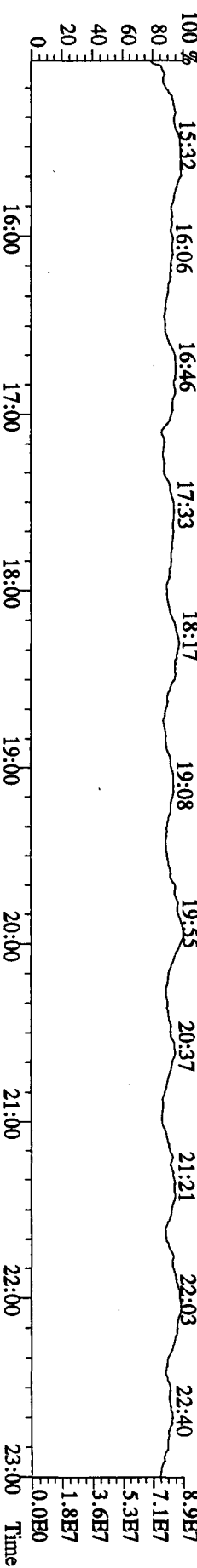
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2076.0,1.00%,F,T)



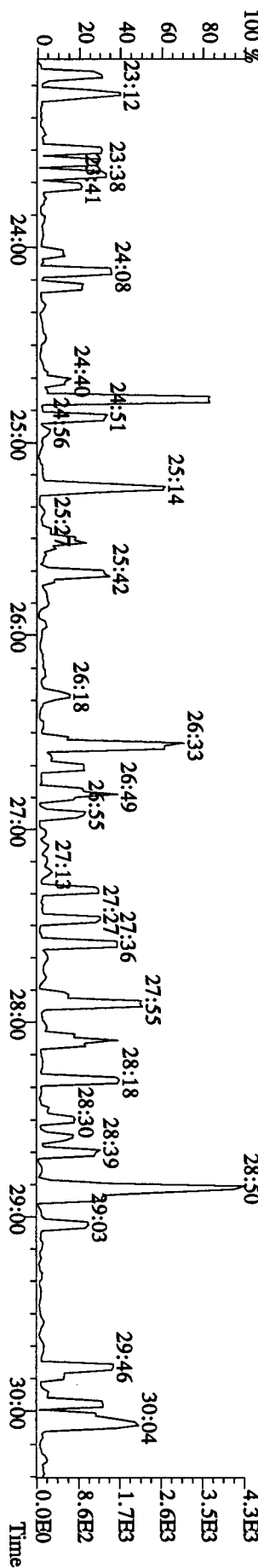
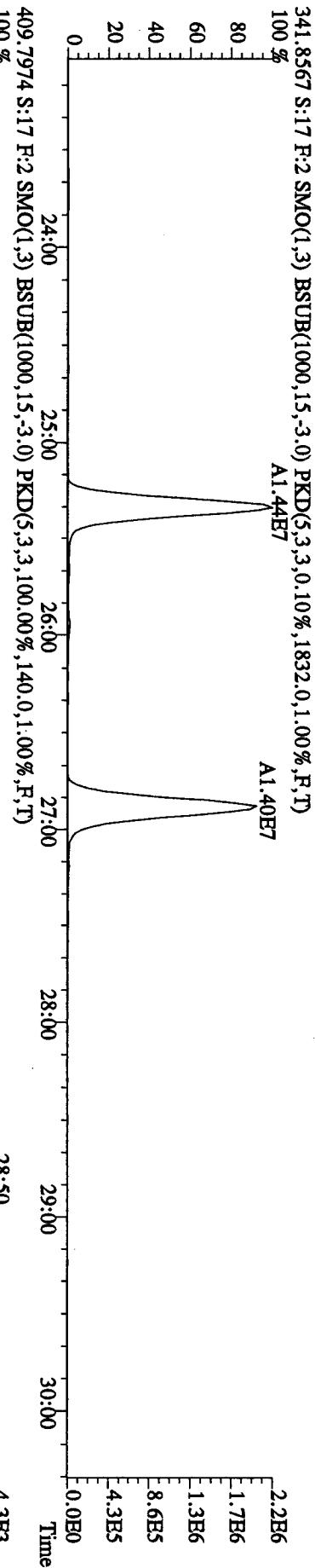
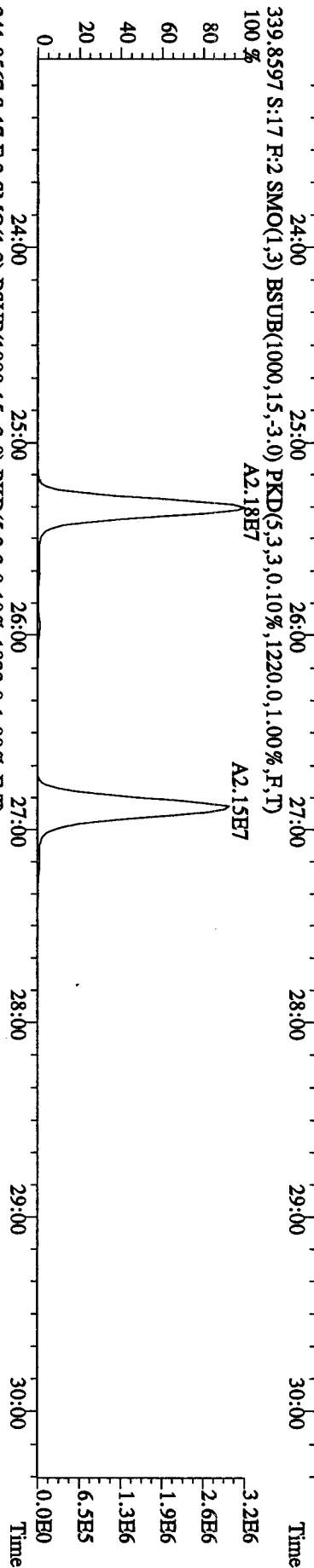
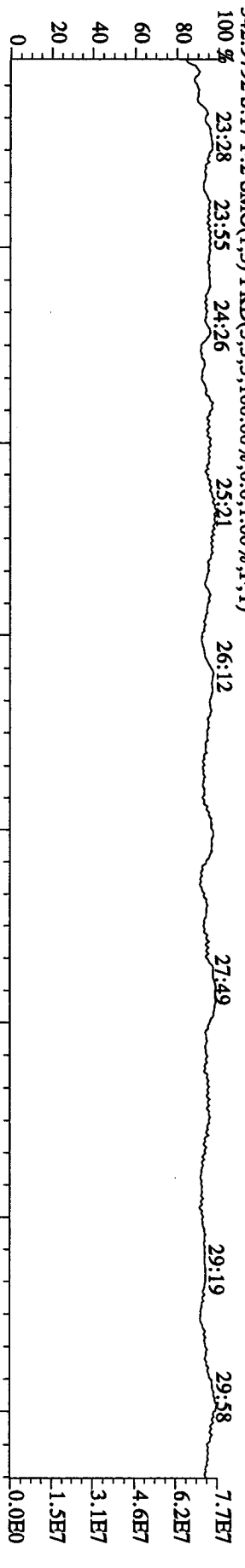
375.8364 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)



330.9792 S:17 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



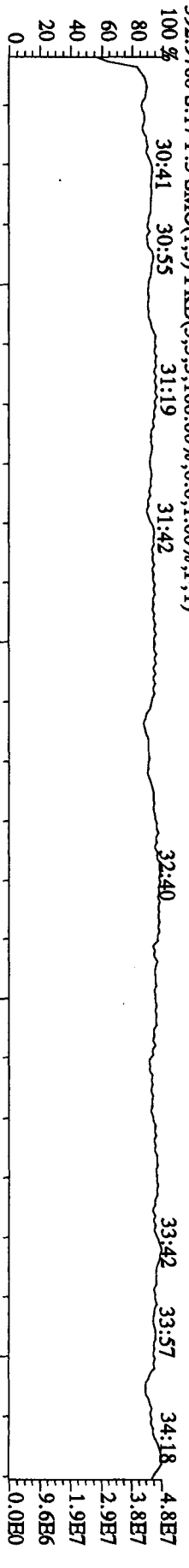
File:28OC104D5 #1-470 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#17 Text:ST1028B :CS3 10DXN461 Exp.:DIOXINRES



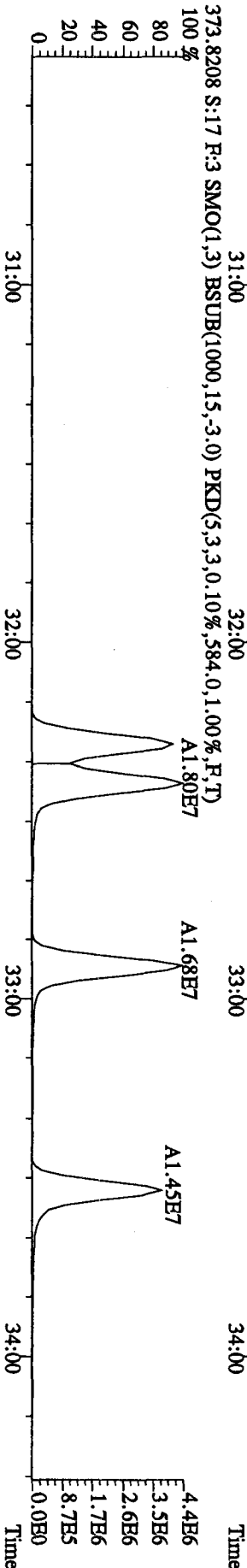
File:280C104D5 #1-287 Acq:28-OCT-2010 21:30:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES

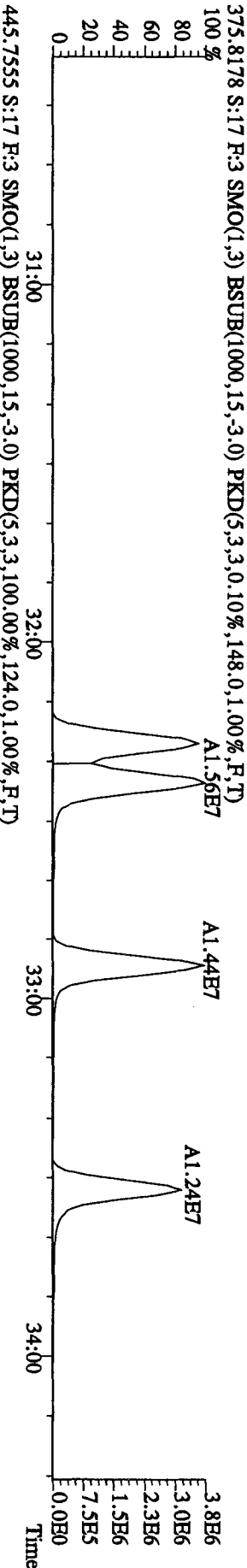
392.9760 S:17 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



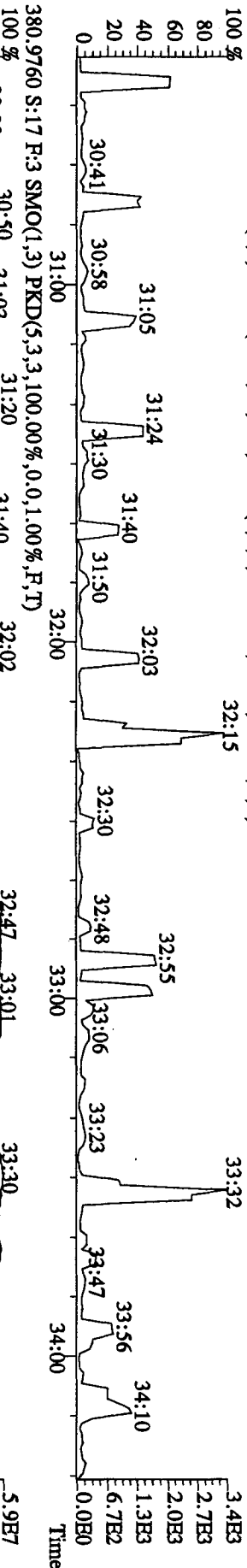
373.8208 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,F,T)



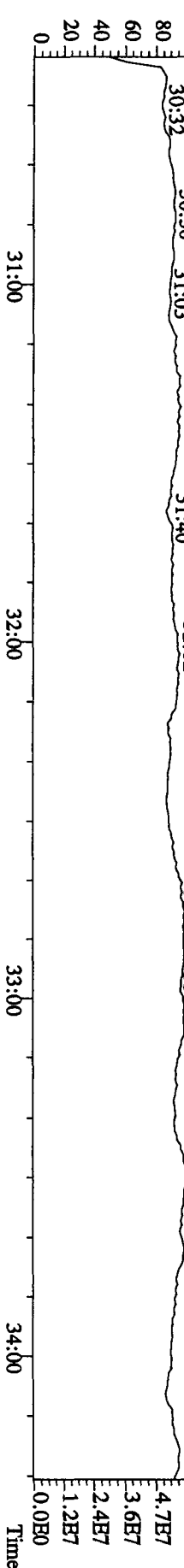
375.8178 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)



445.7555 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,124.0,1.00%,F,T)



380.9760 S:17 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

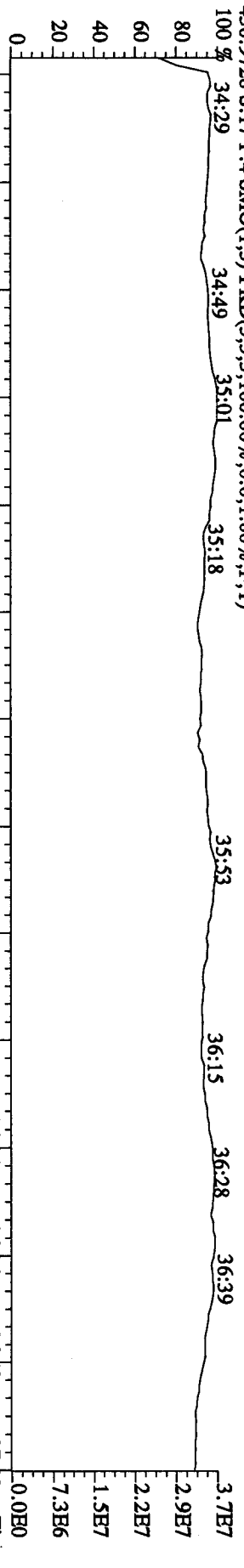


File:28OC104D5 #1-200 Acq:28-OCT-2010 21:30:12 GC BI + Voltage SIR Autospec-UltimaB

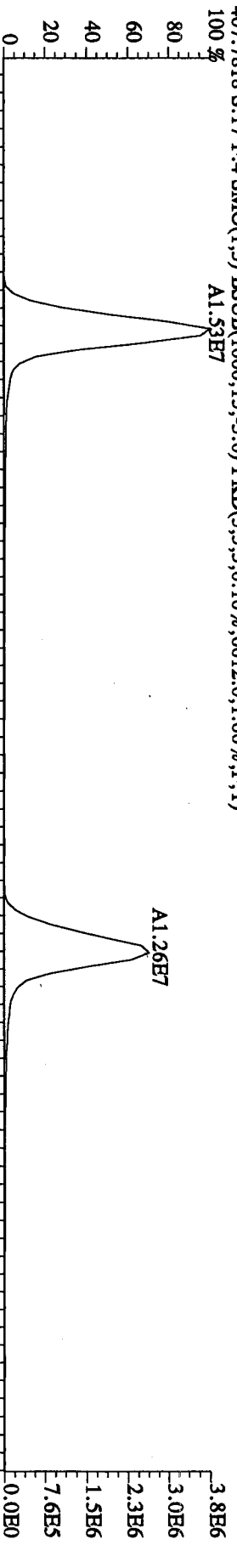
Sample#17 Text:ST1028B :CS3 10DXN461 Exp:DIOXINRES

430.9728 S:17 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

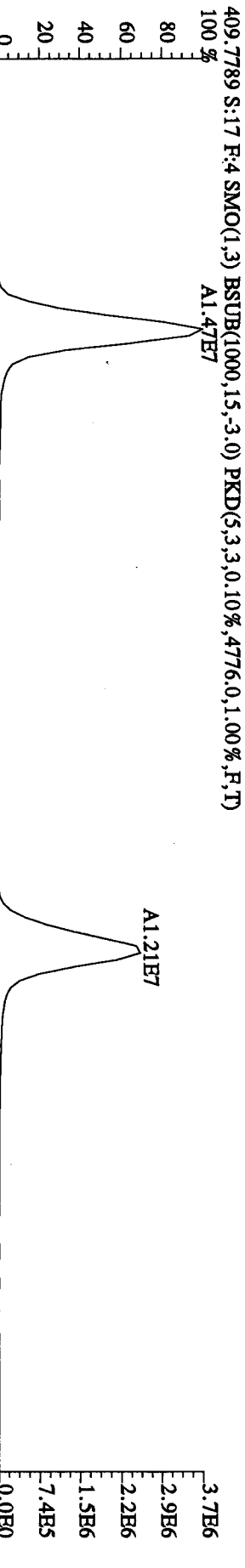
100% 34:29 34:49 35:01 35:18



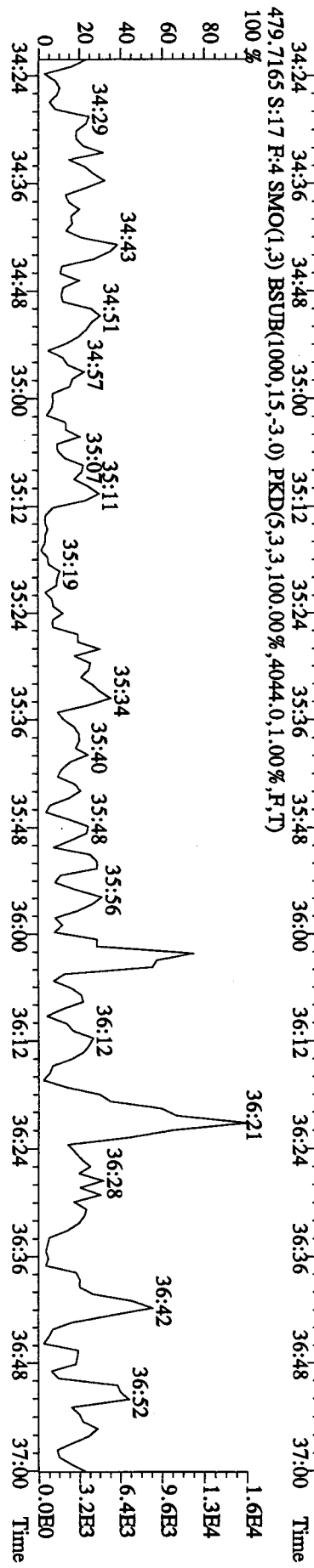
407.7818 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6612.0,1.00%,F,T)



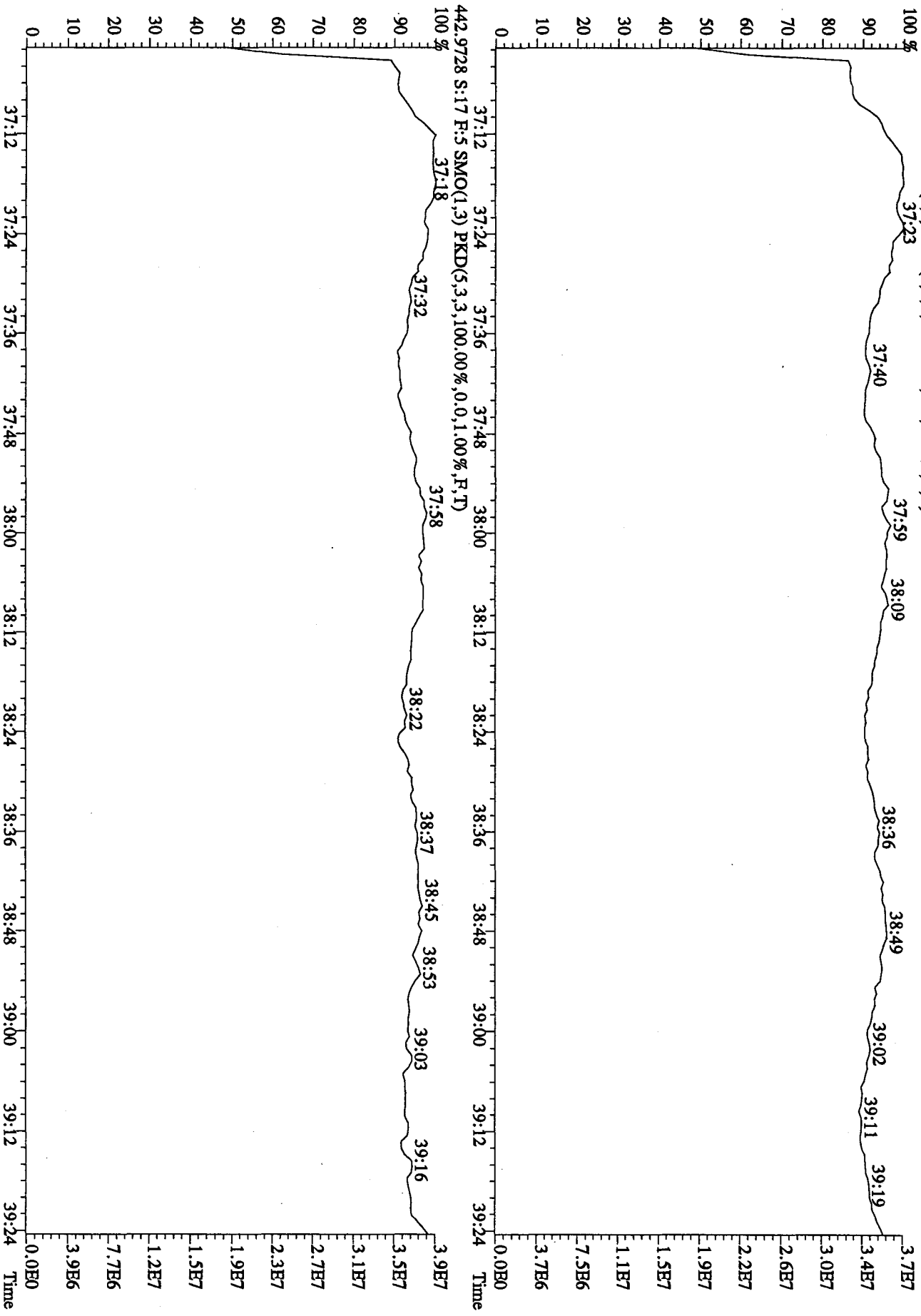
409.7789 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4776.0,1.00%,F,T)



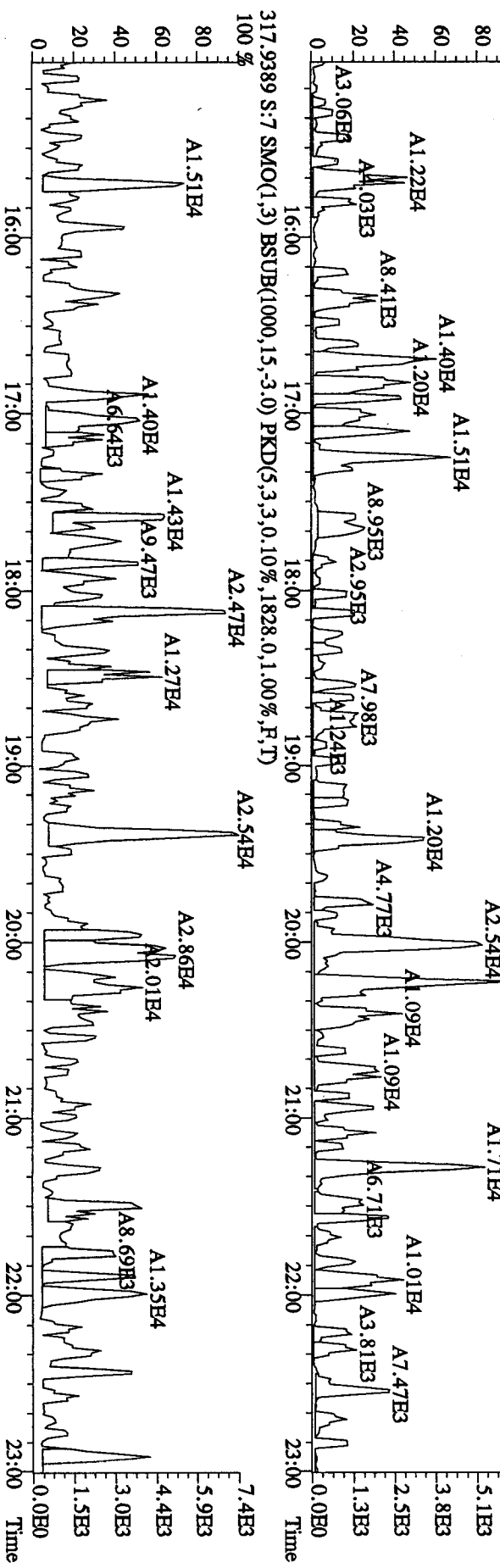
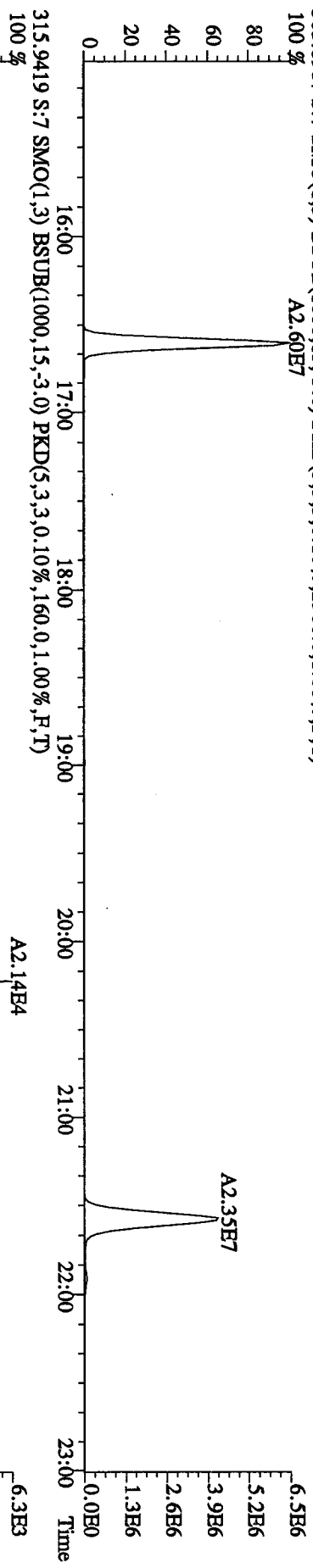
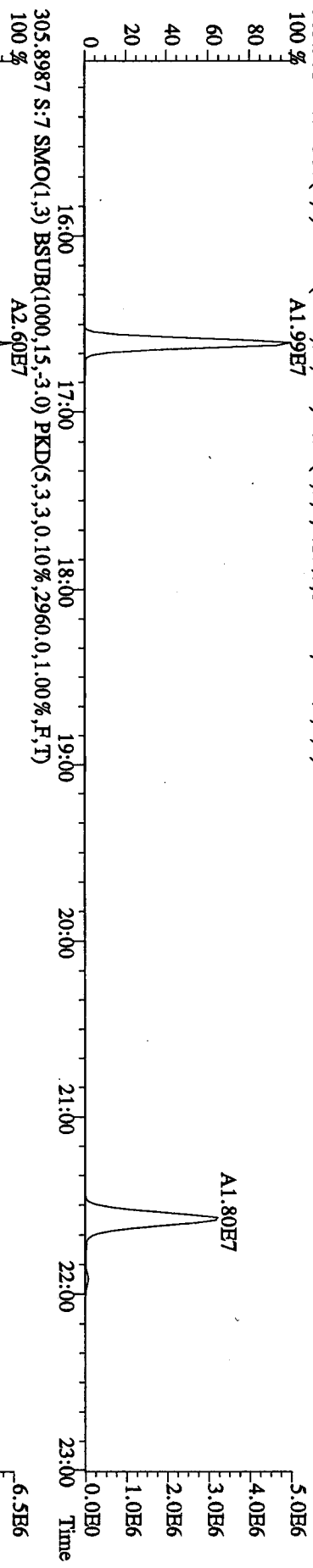
479.7165 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4044.0,1.00%,F,T)



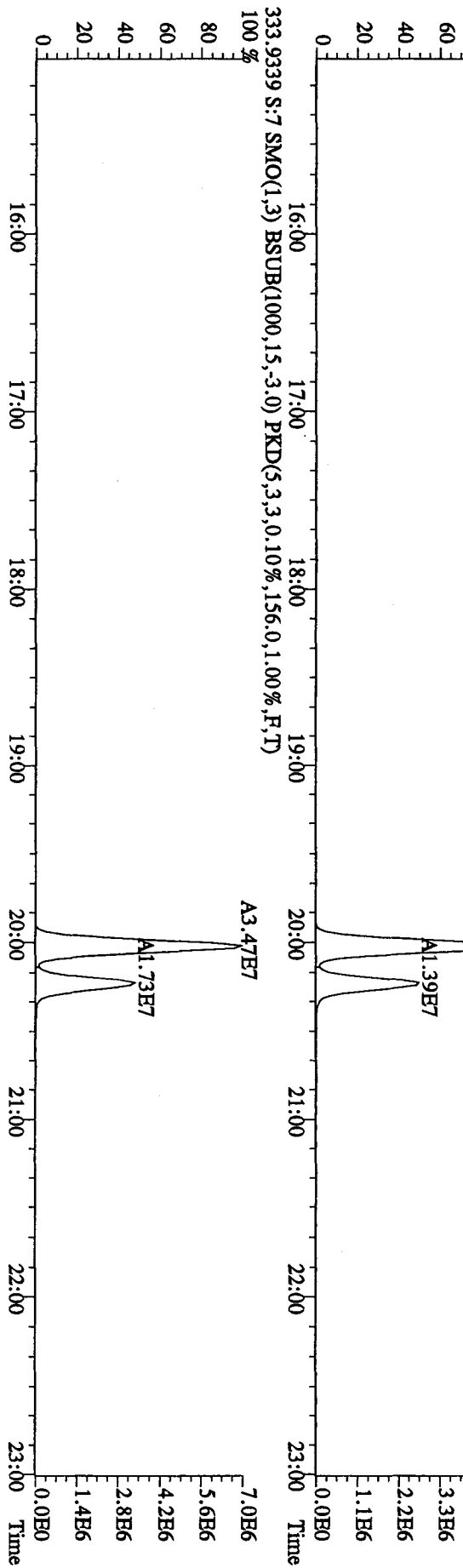
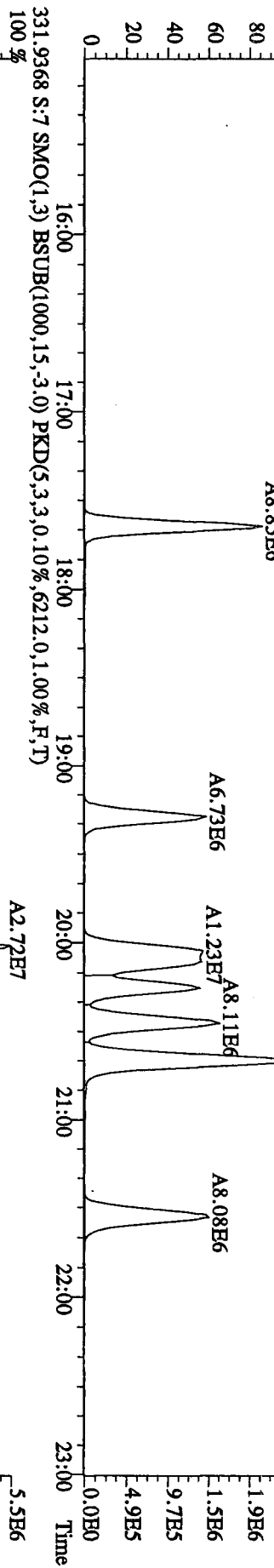
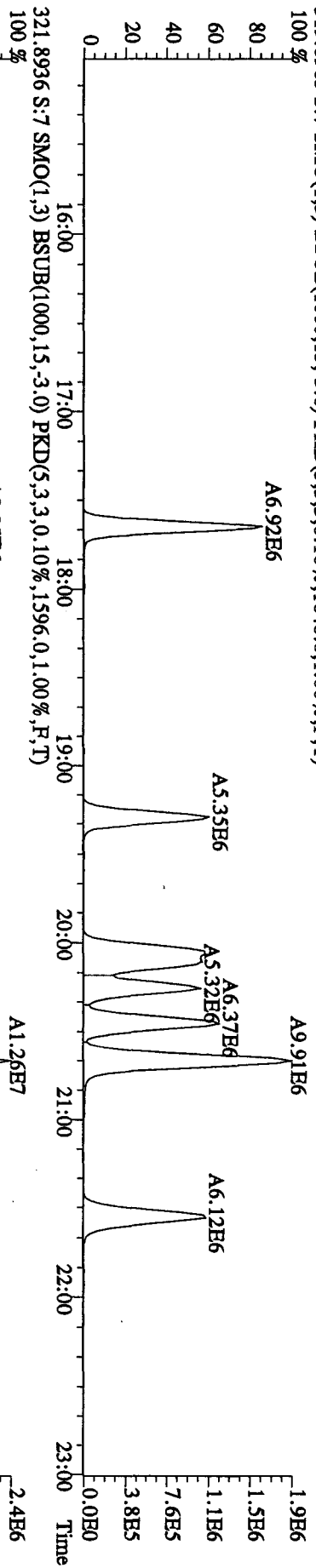
File: 28OCT104D5 #1-193 Acq: 28-OCT-2010 21:30:12 GC EI + Voltage SIR Autospec-UltimaB
 Sample#17 Text: ST1028B :CS3 10DXN461 Exp: DIOXINRES
 454.9728 S:17 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



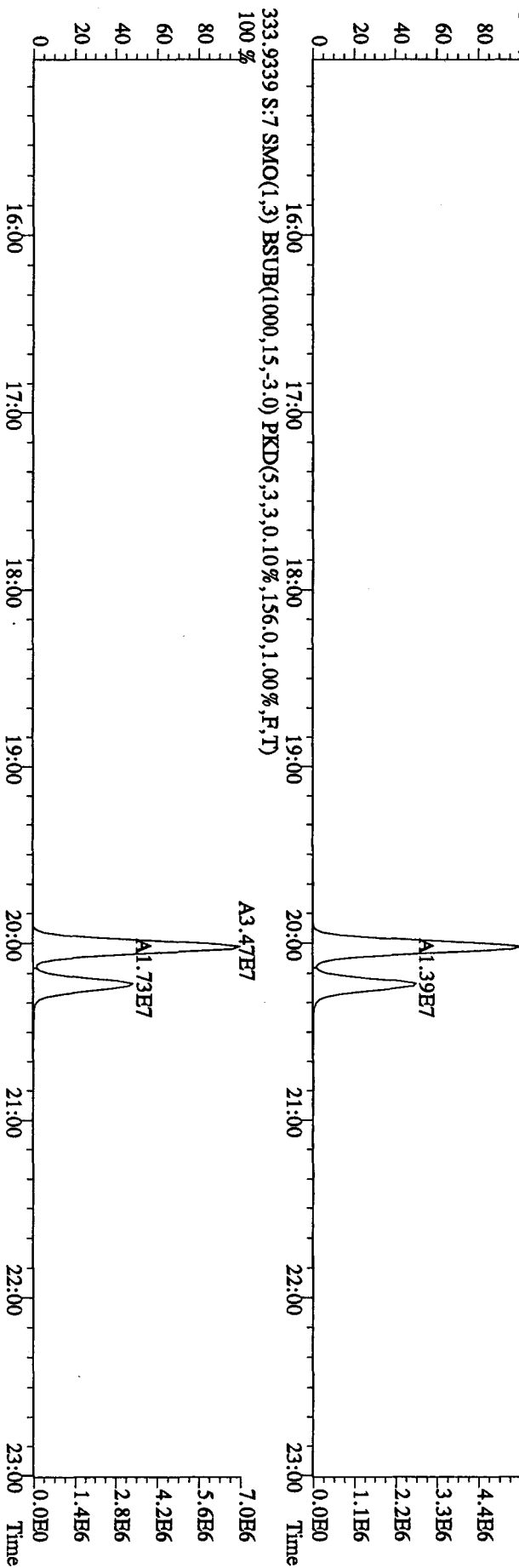
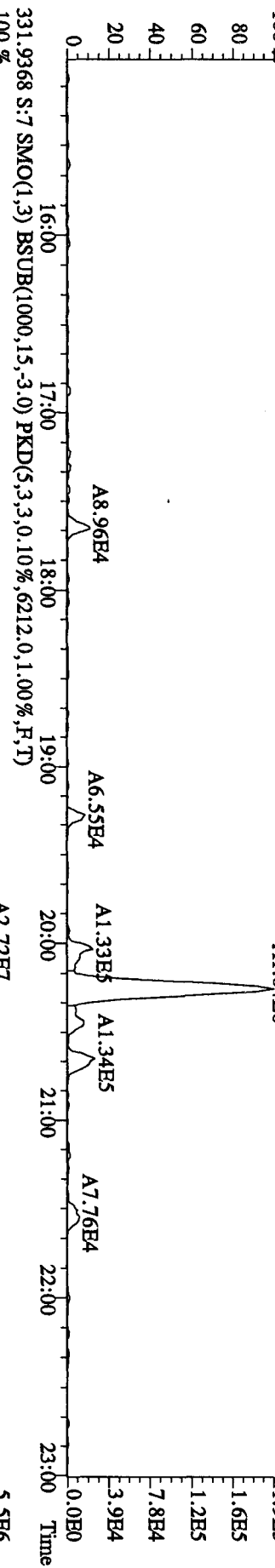
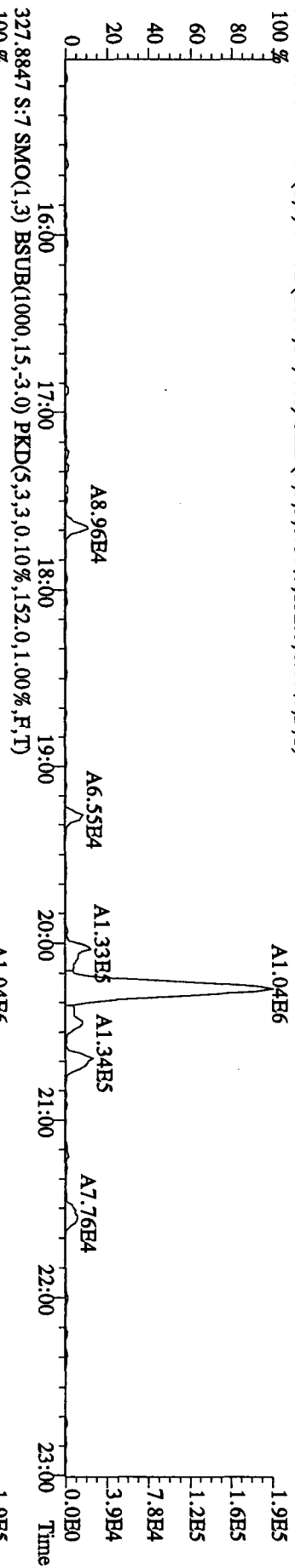
File:280C104D5 #1-530 Acq:28-OCT-2010 14:04:29 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1524,0.1,0.00%,F,T)
 100% A1.99E7



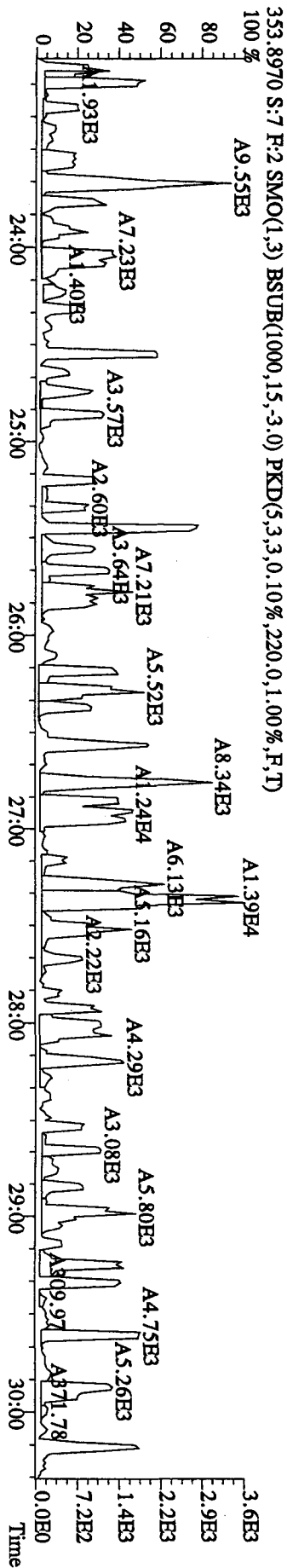
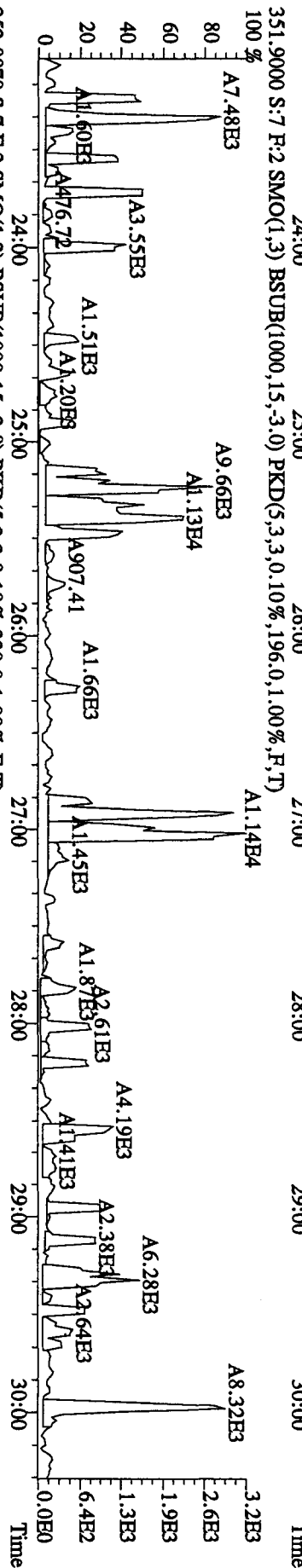
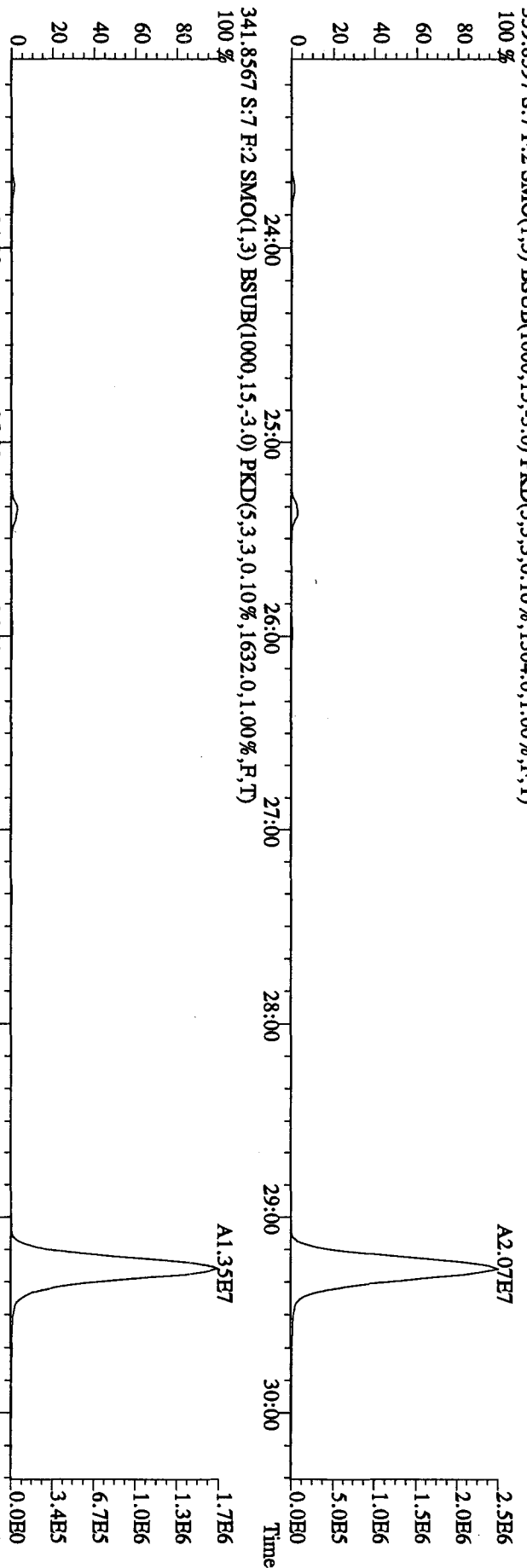
File:280C104D5 #1-530 Acq:28-OCT-2010 14:04:29 GC EI + Voltage SIR Autospec-Ultimate
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1648,0,1,00%,F,T)



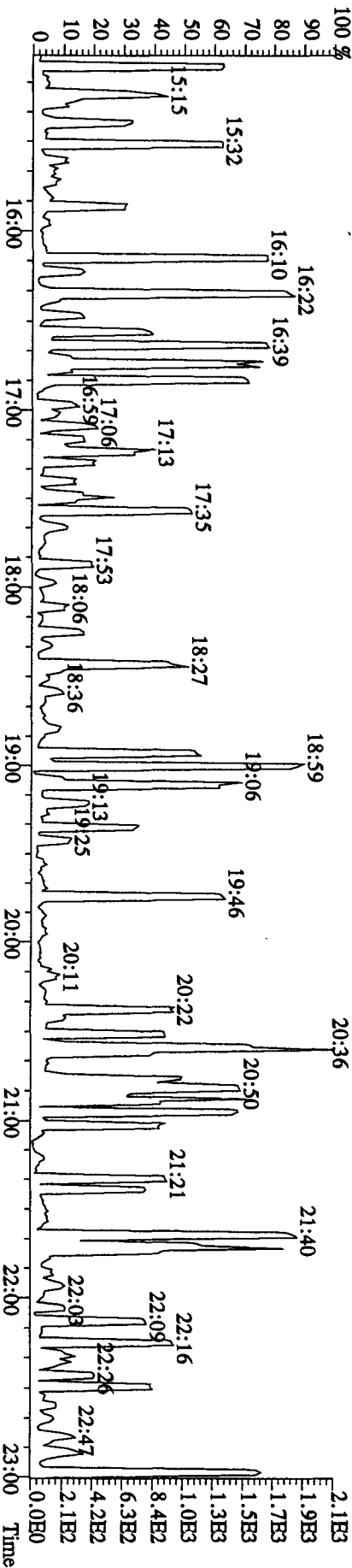
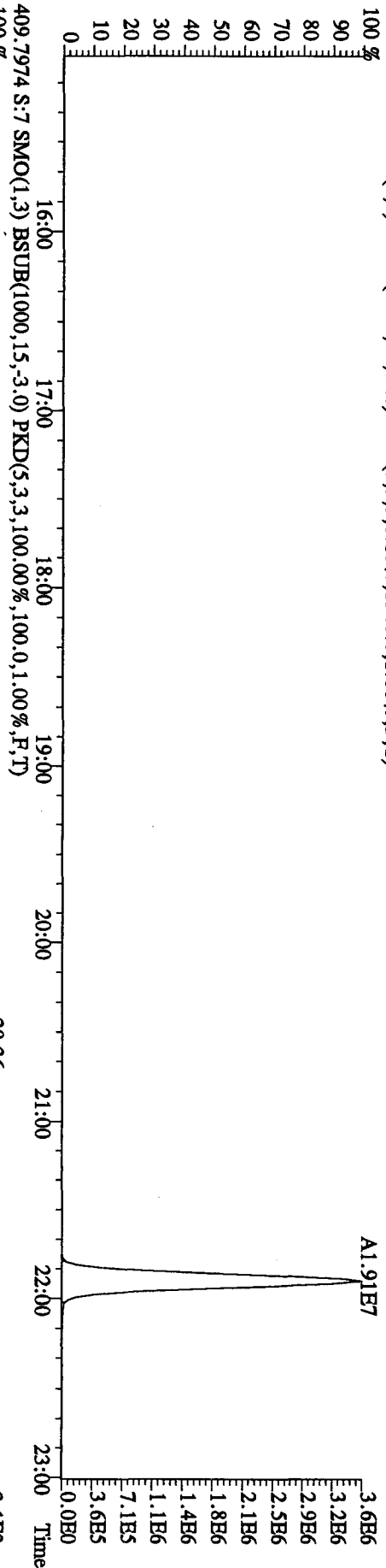
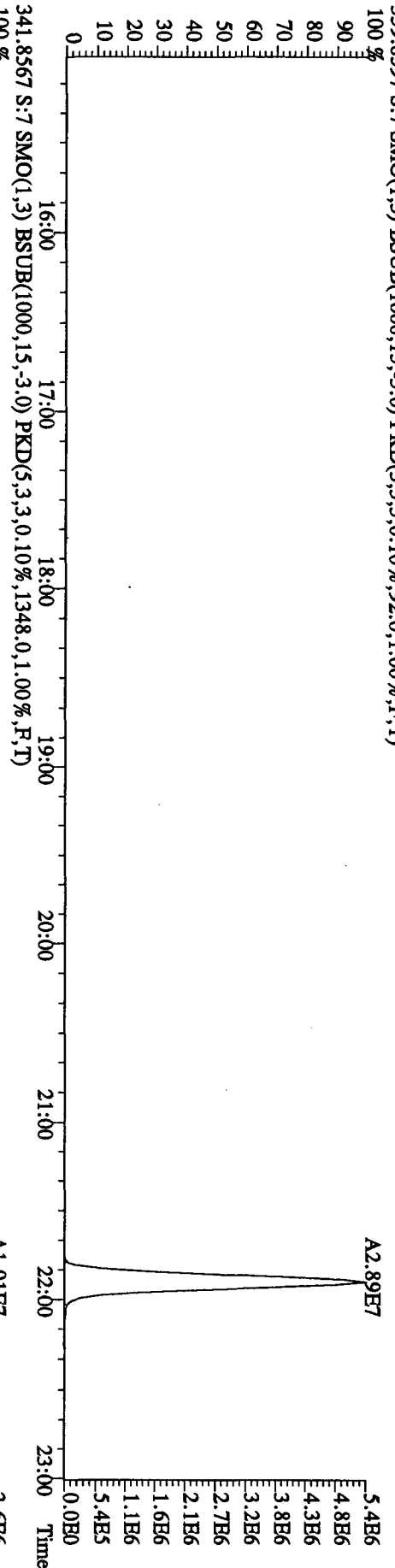
File: 280C104D5 #1-530 Acq: 28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text: CP1028A :DB-5 CPM 3732-10 Exp: DIOXINRES
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,152,0,1,100%,F,T) 100%



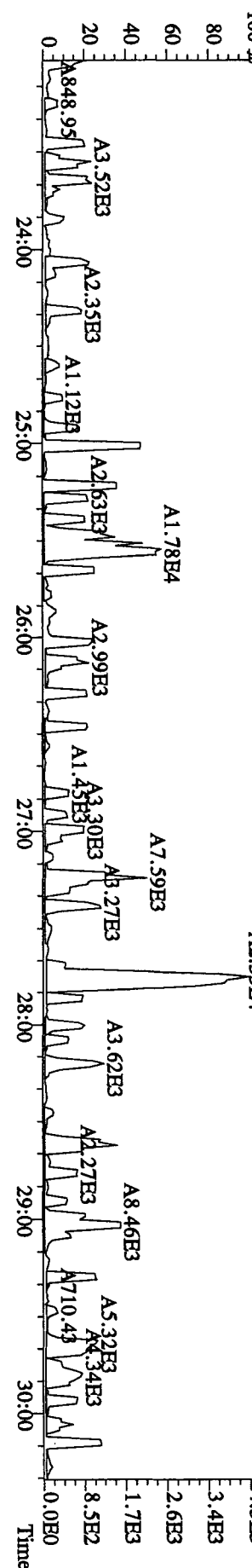
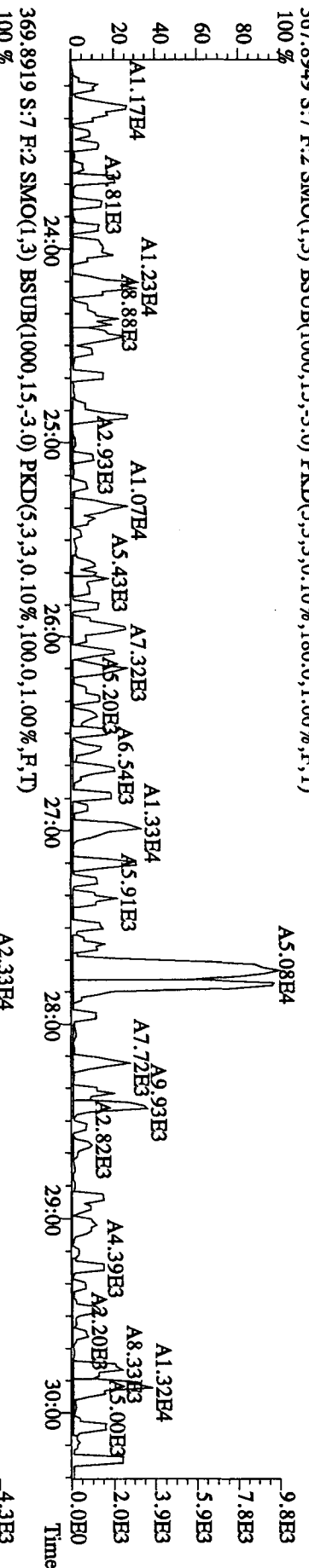
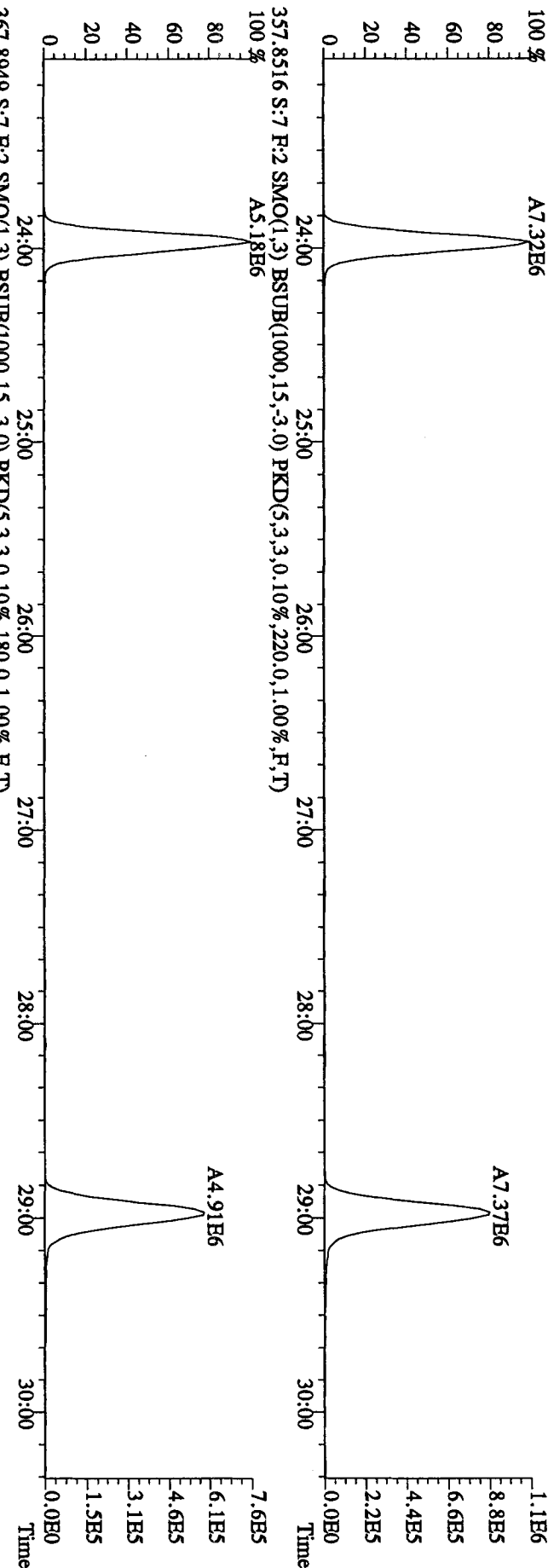
File:28OCT104D5 #1-470 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:CPI028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1304,0,1.00%,F,T) 100%



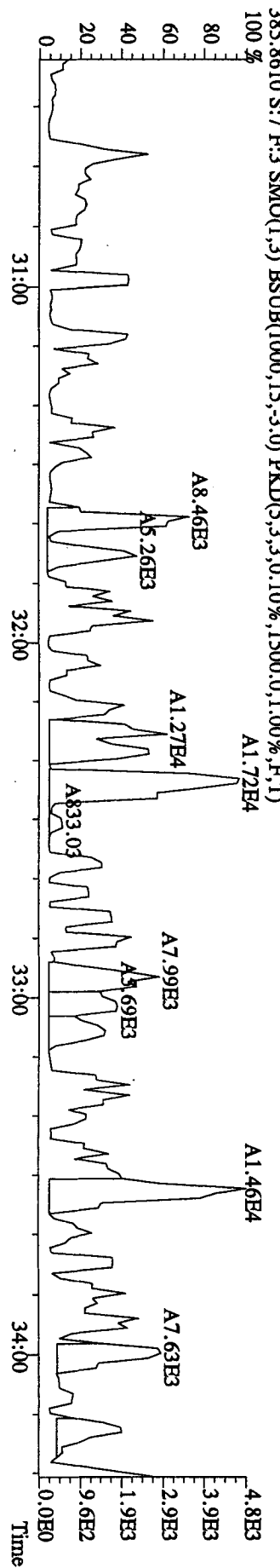
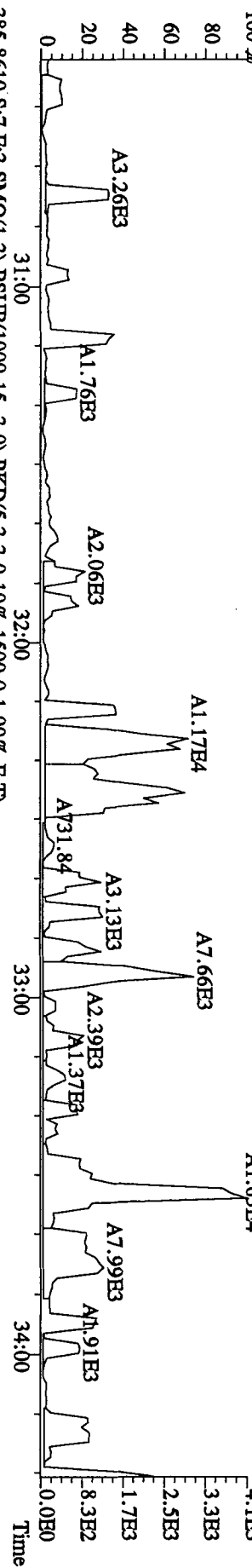
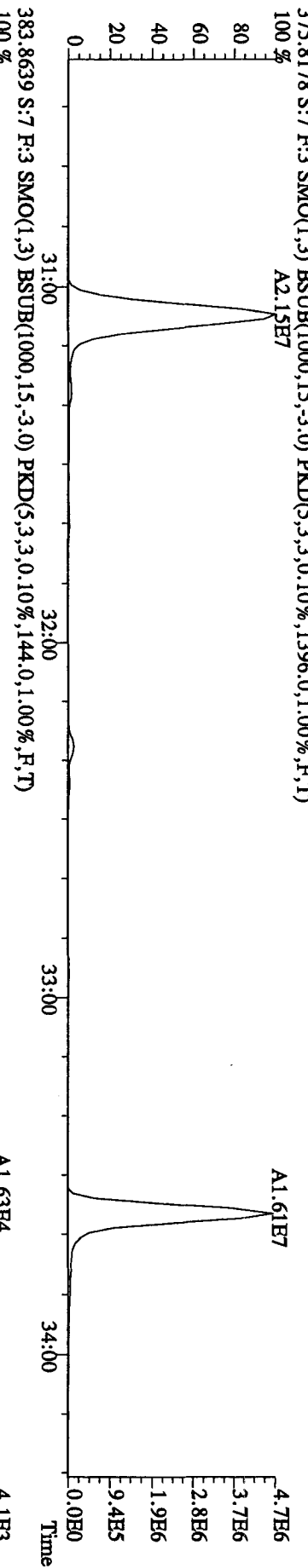
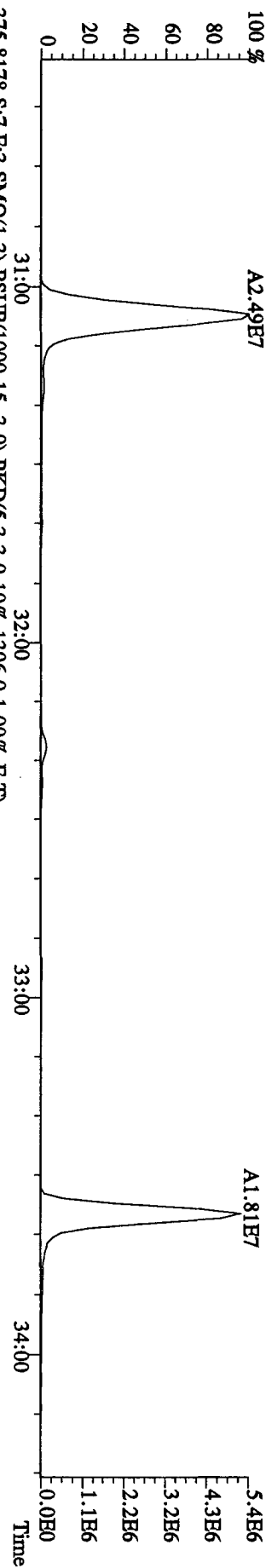
File: 28OC104D5 #1-530 Acq: 28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text: CP1028A :DB-5 CPSM 3732-10 Exp: DIOXINRES
 339.8597 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



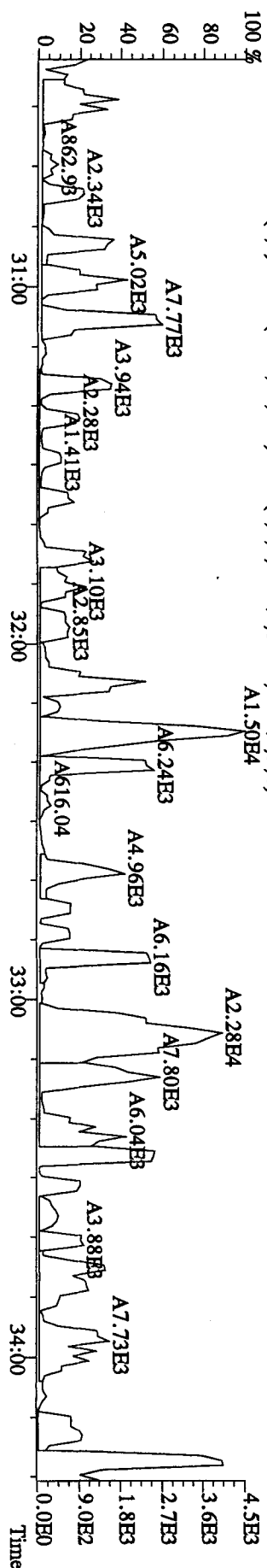
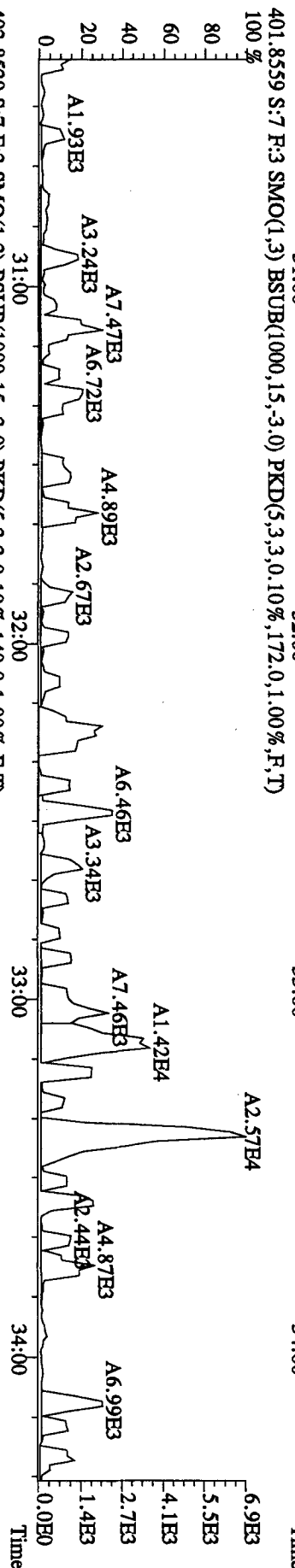
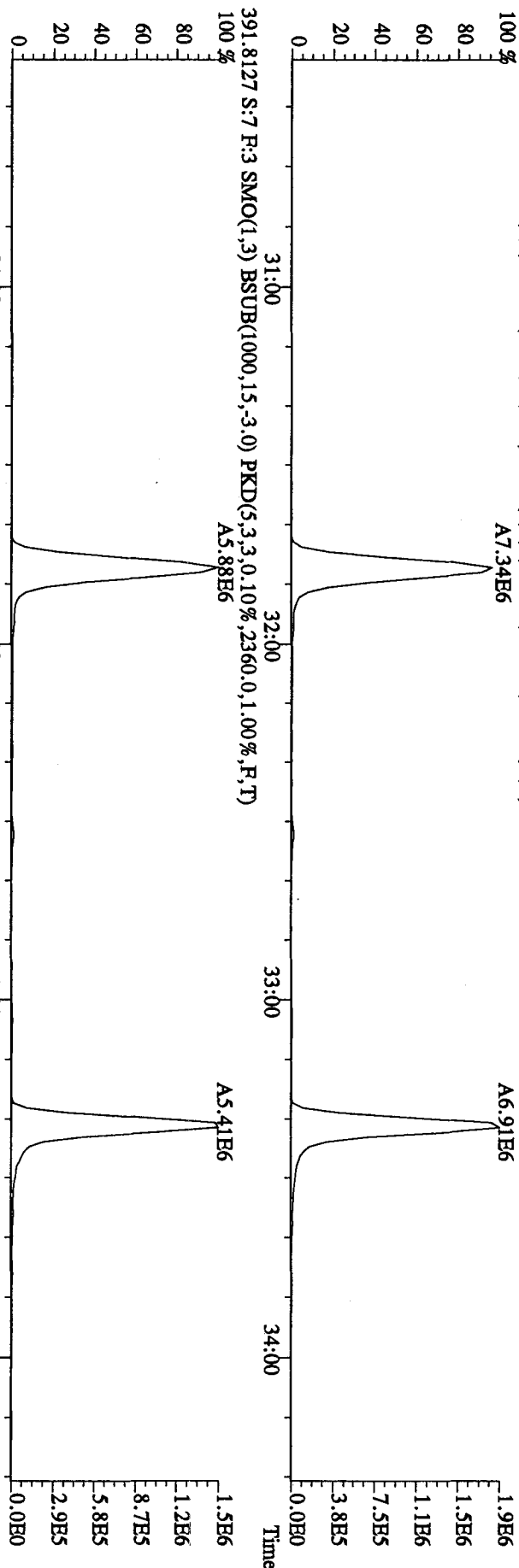
File:28OC104D5 #1-470 Acq:28-OCT-2010 14:04:29 GC EI + Voltage SIR Autospec-Ultimate
 Sample#7 Text:CPI028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1660.0,1.00%,F,T)
 A7.32E6



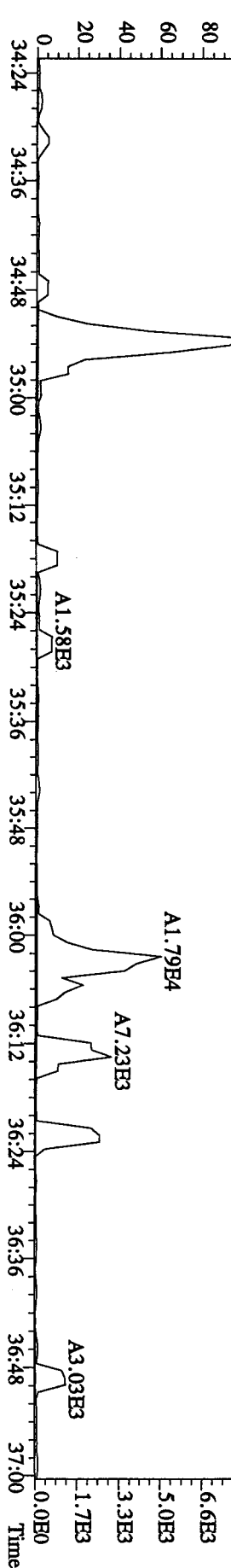
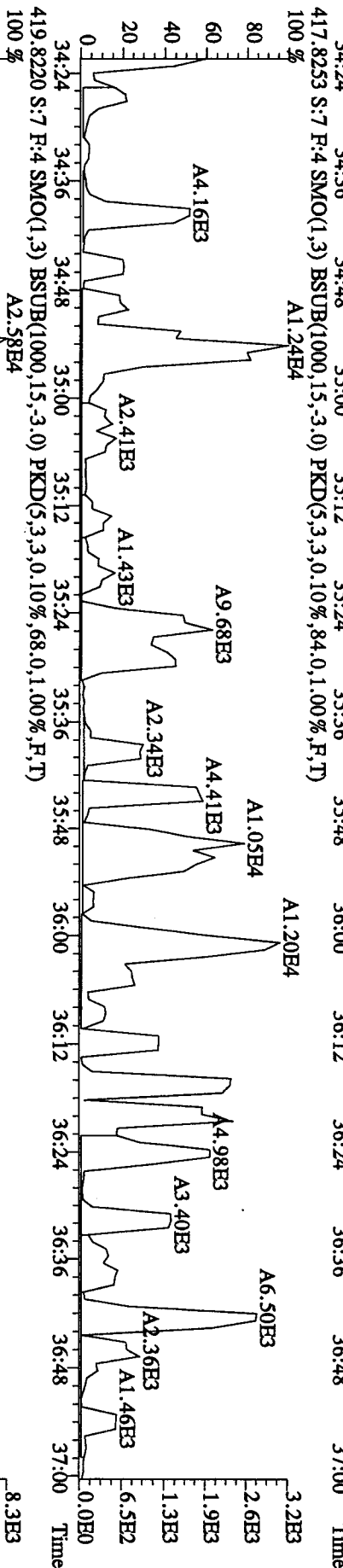
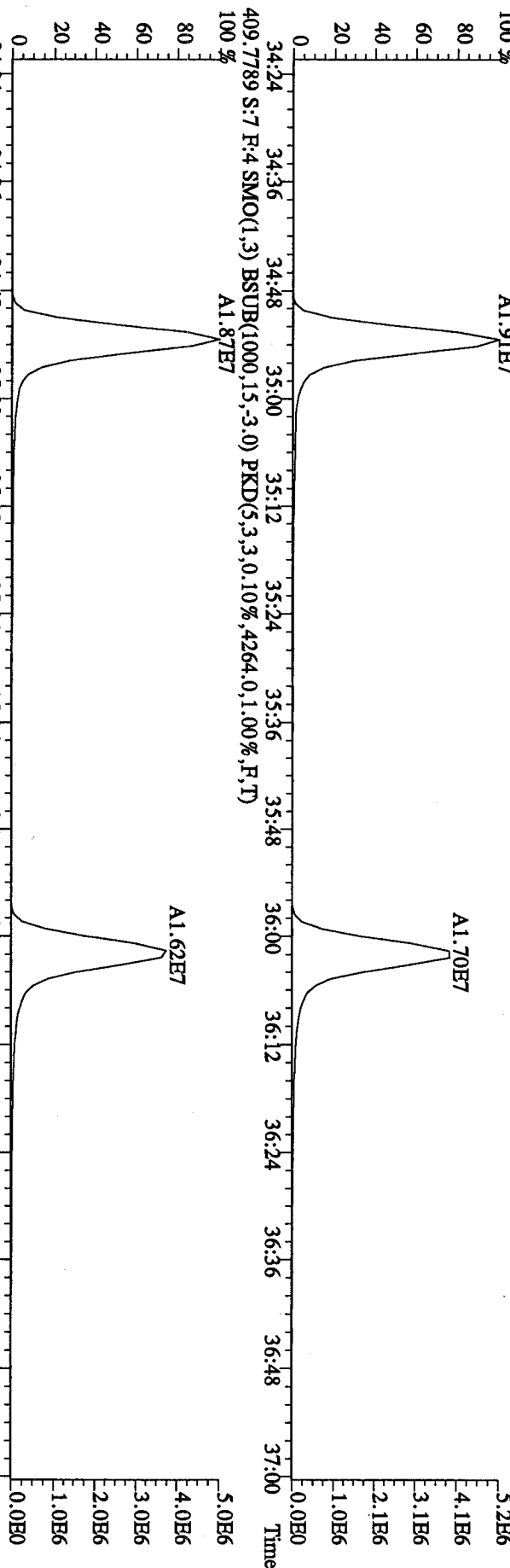
File:280C104D5 #1-287 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1944,0,1.00%,F,T)
 100 % A2.49E7



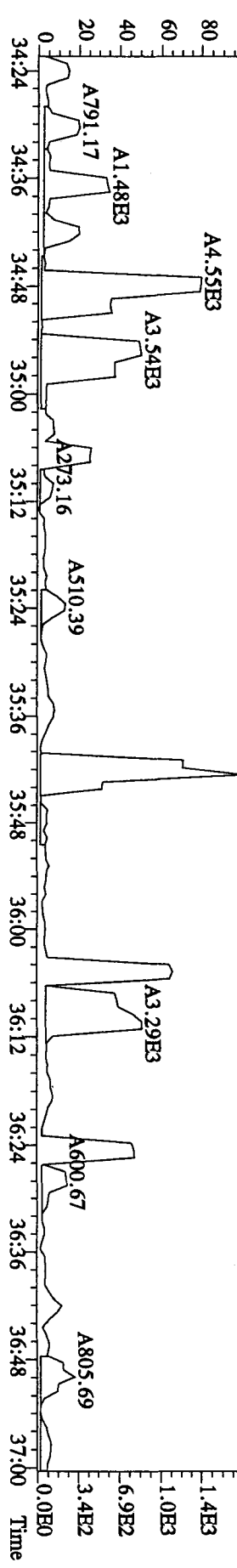
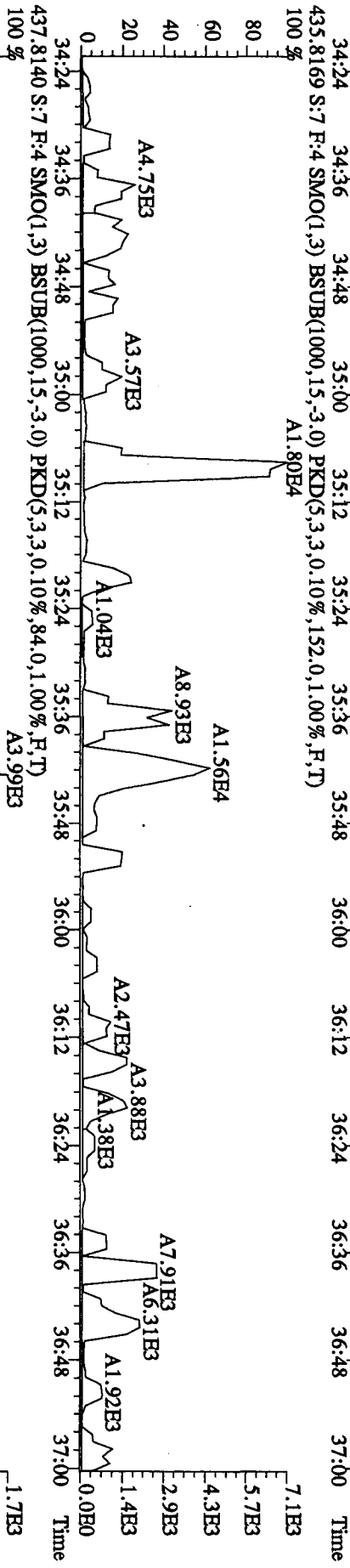
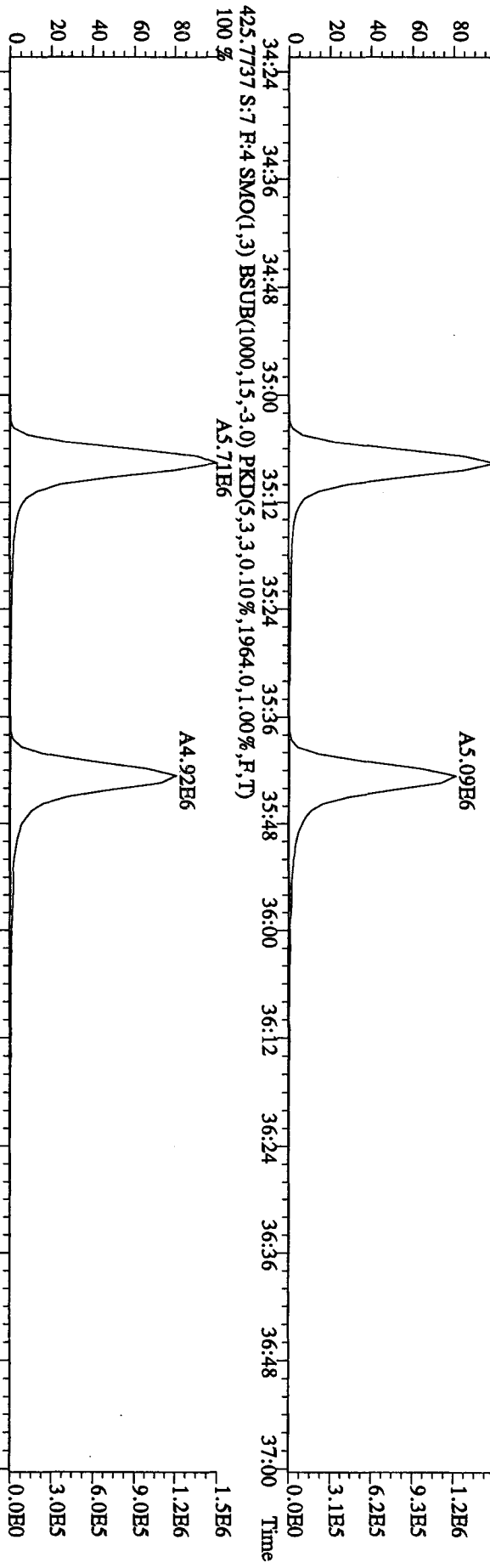
File:280C104D5 #1-287 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)
 100 %



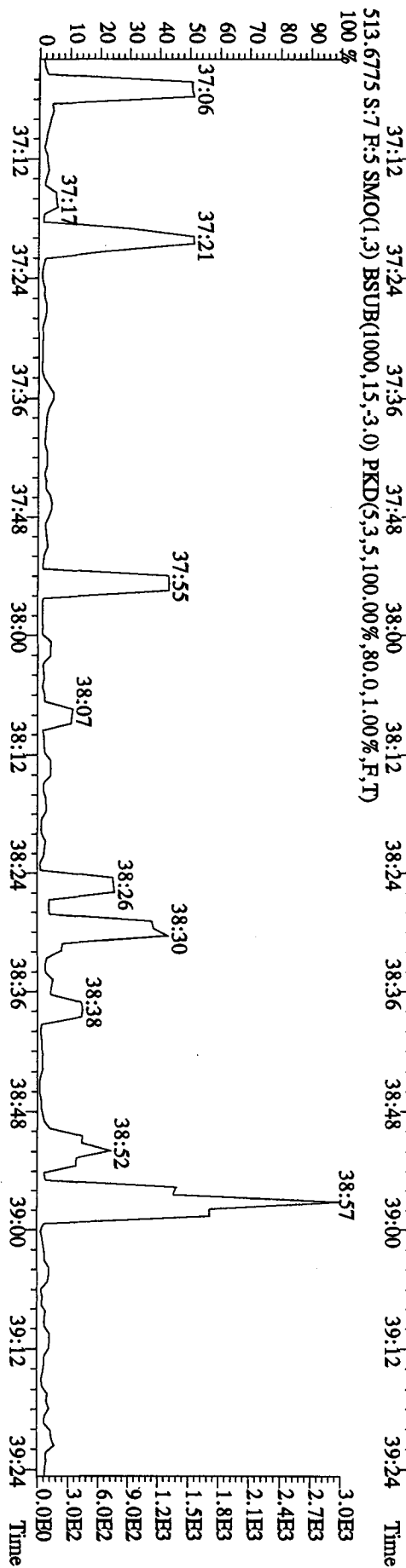
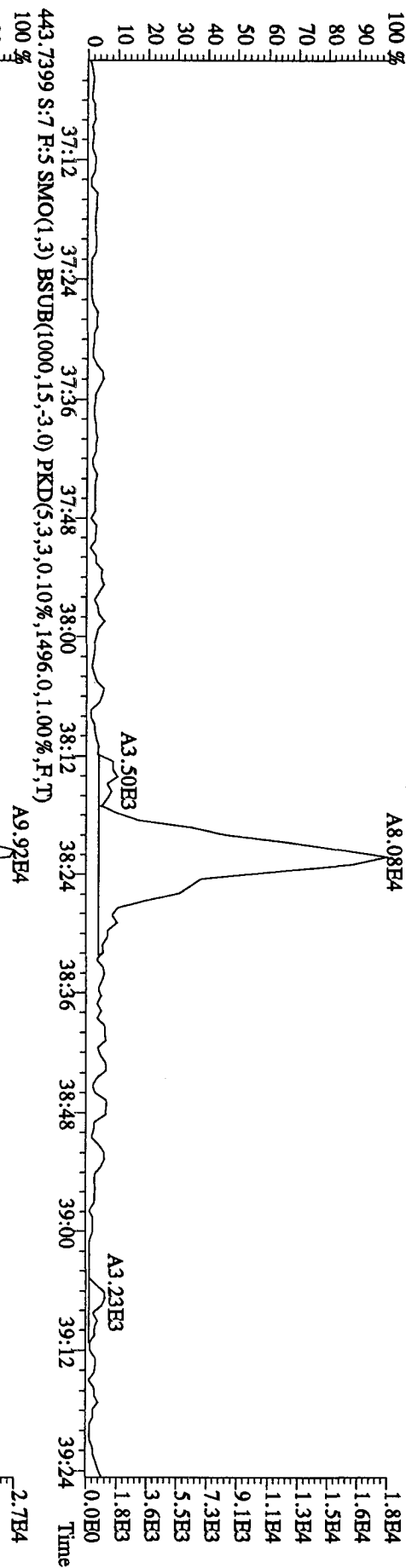
File:28OC104D5 #1-200 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7588,0.1,0.0%,F,T)
 100 % A1.91E7



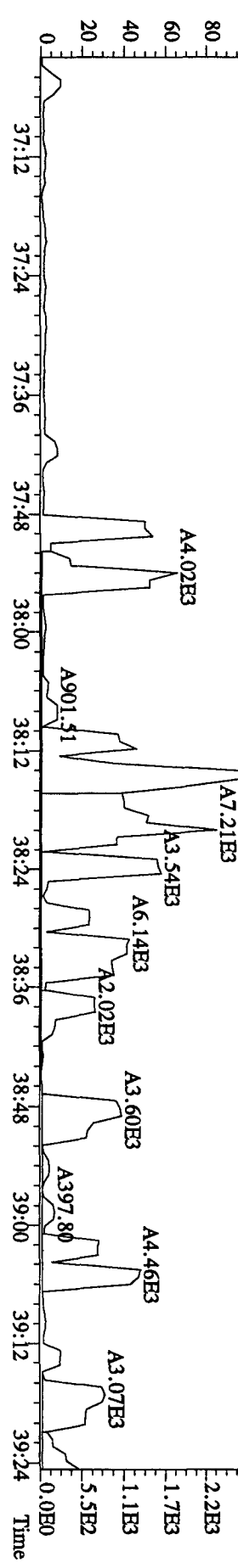
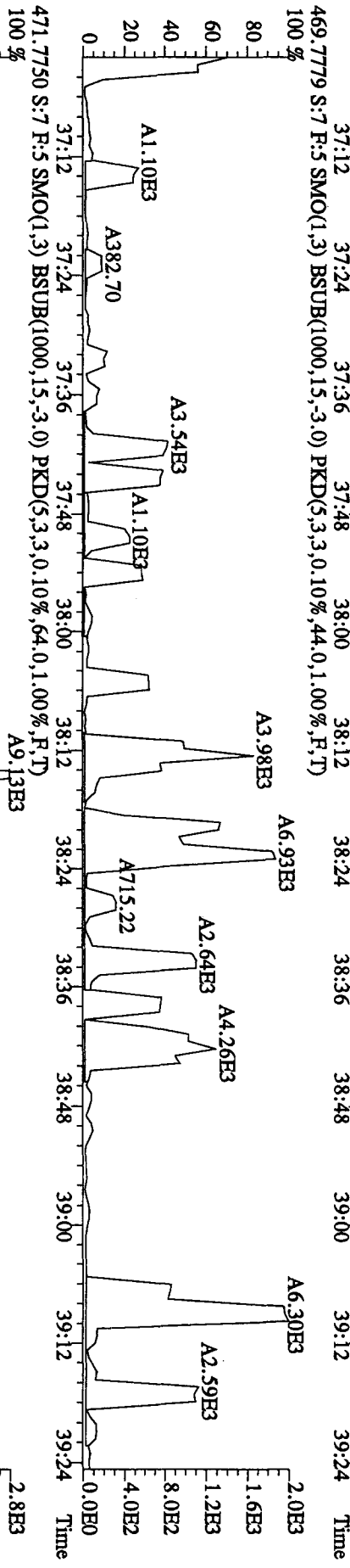
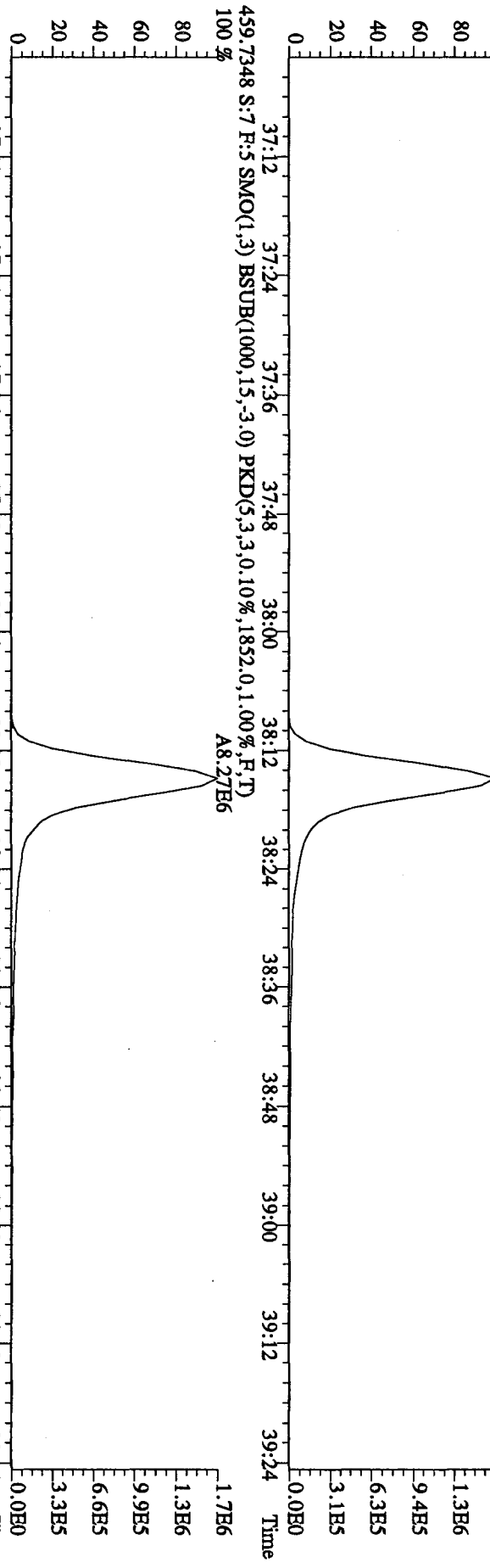
File:280C104D5 #1-200 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaF
 Sample#7 Text:CPI028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1964,0,1,00%,F,T)
 100%



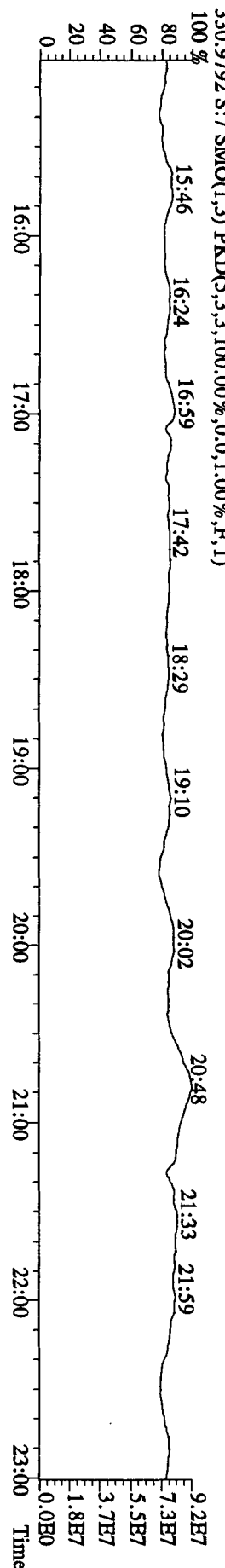
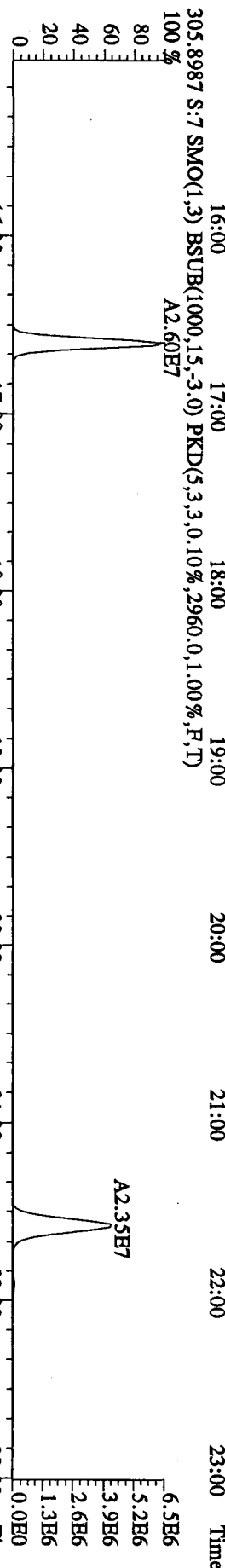
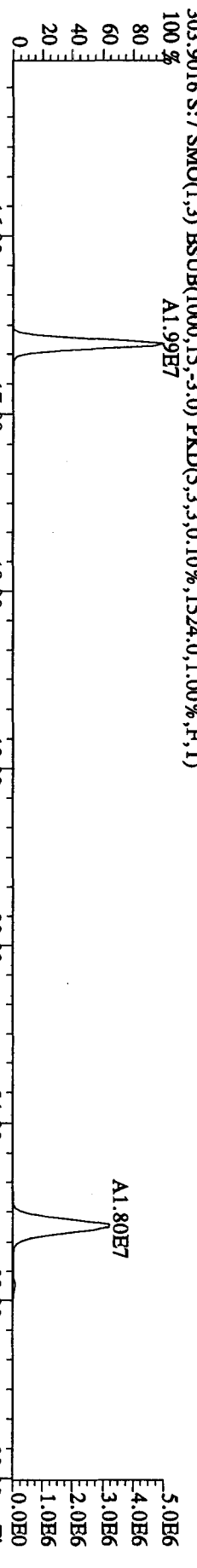
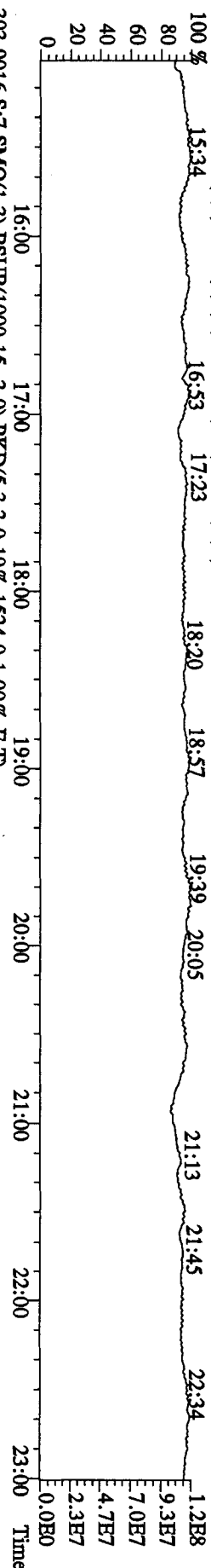
File:280C104D5 #1-193 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,620.0,1.00%,F,T)



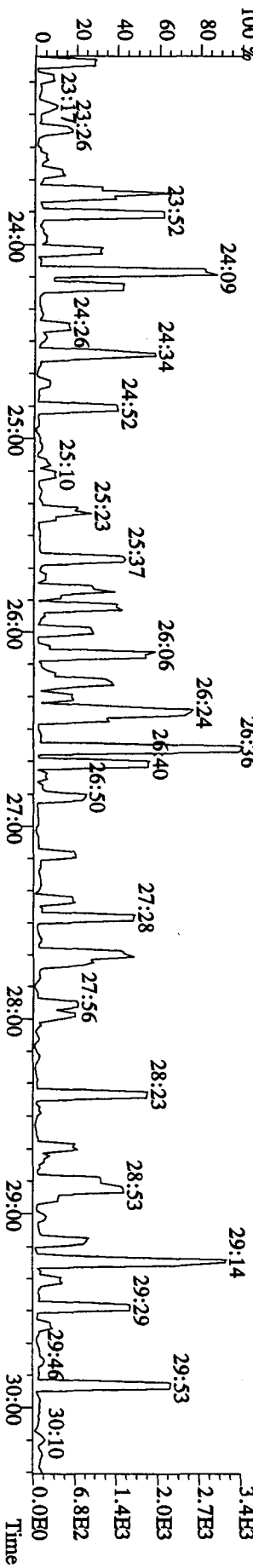
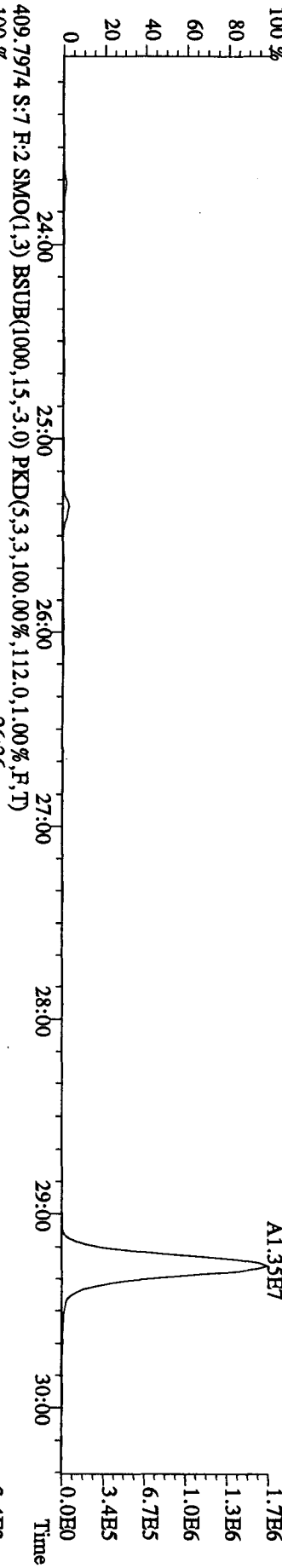
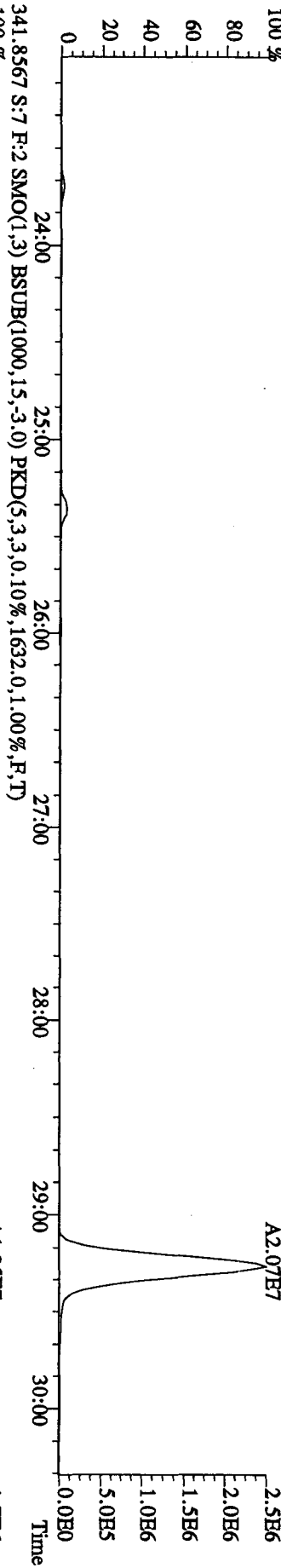
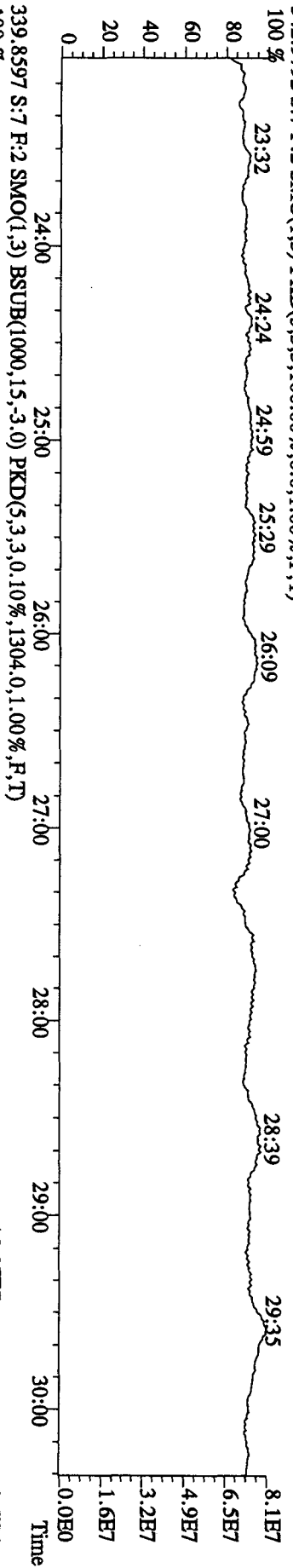
File:280C104D5 #1-193 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 457.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T)
 100% A7.76B6



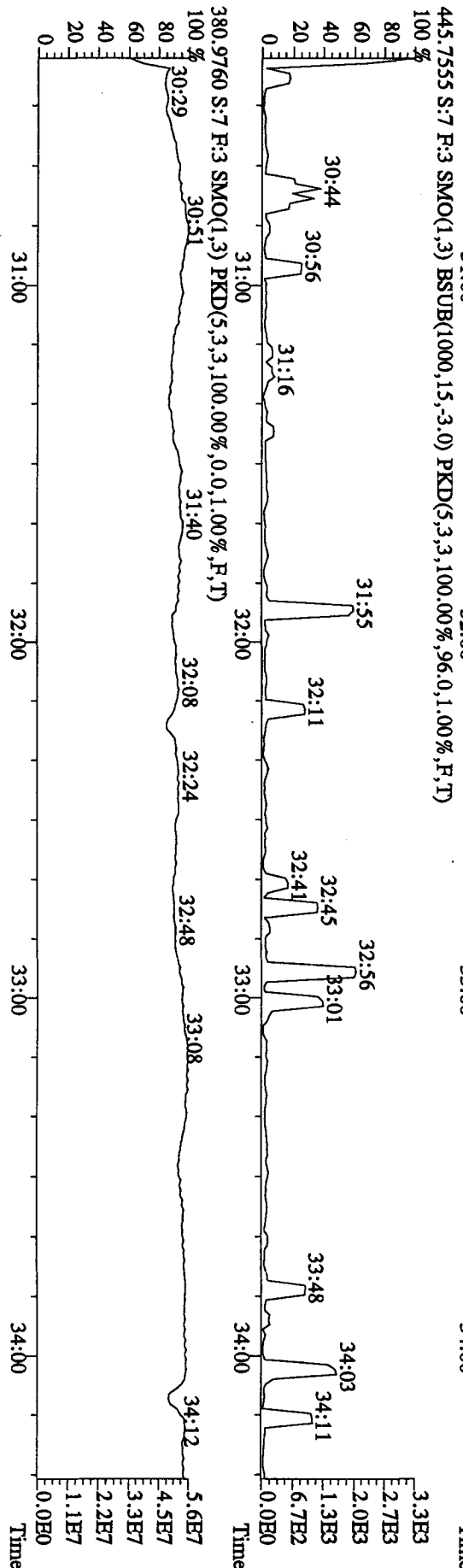
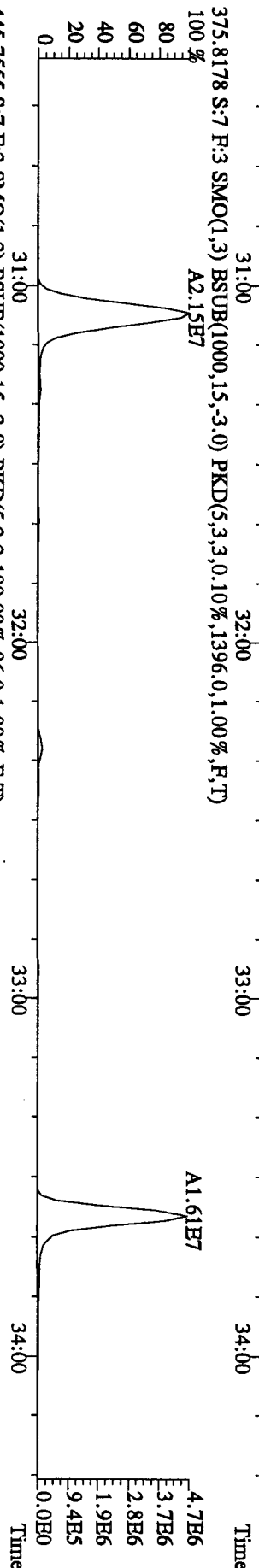
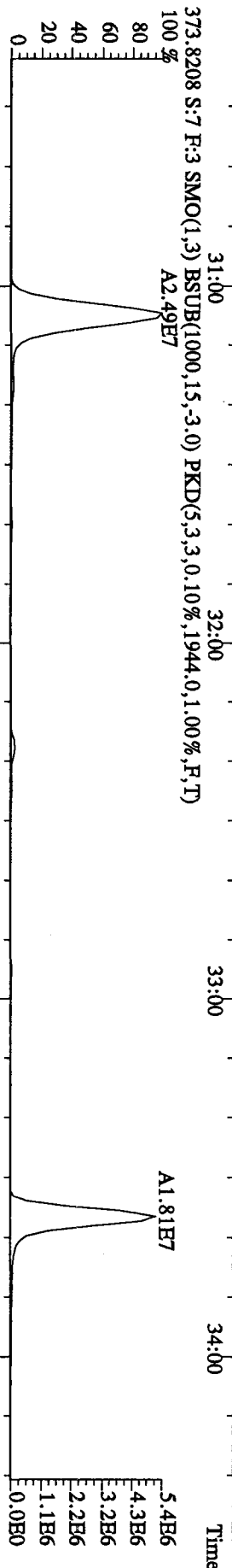
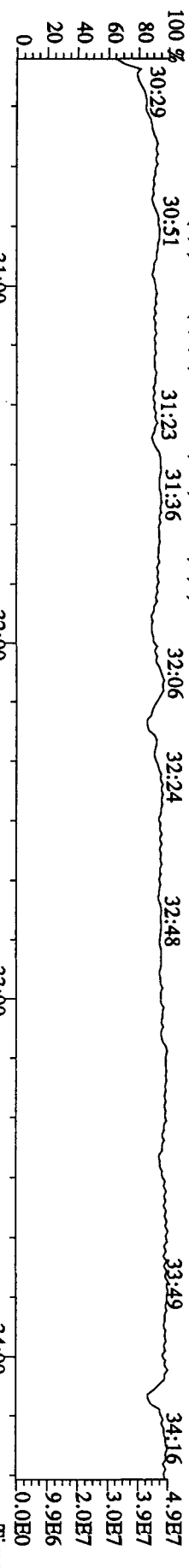
File: 28OC104D5 #1-530 Acq: 28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text: CP1028A :DB-5 CPSM 3732-10 Exp: DIOXINRES
 292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



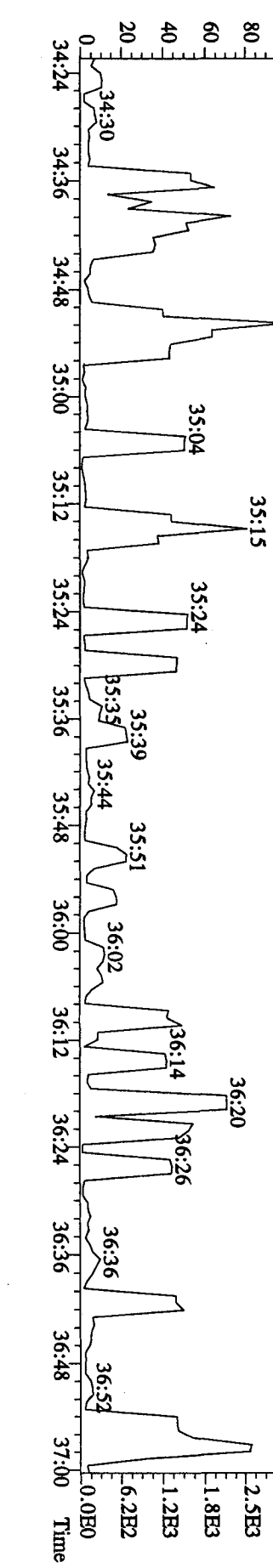
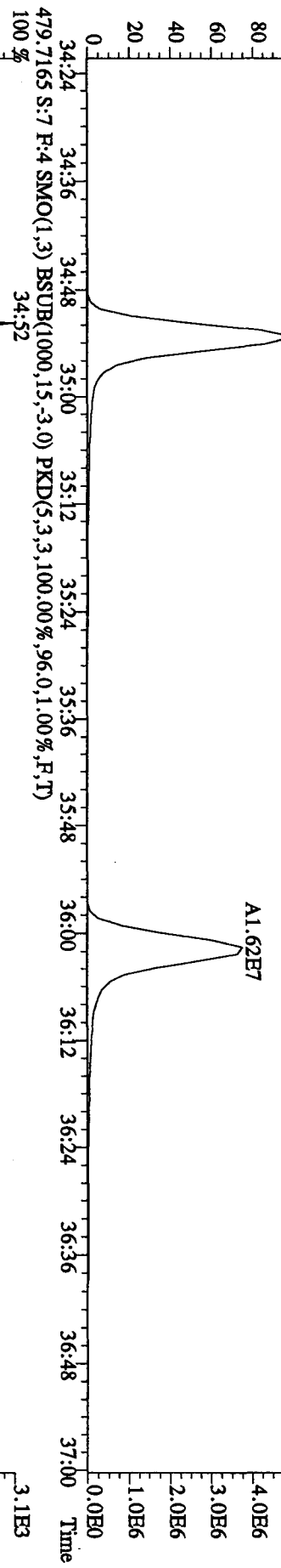
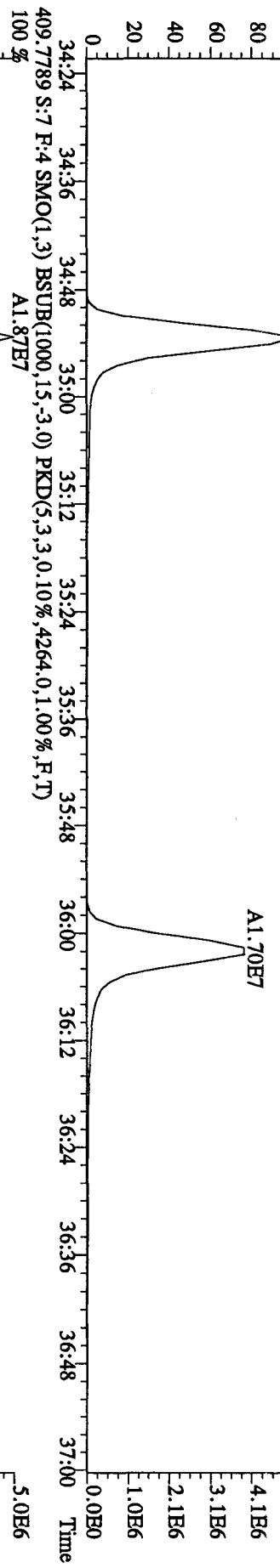
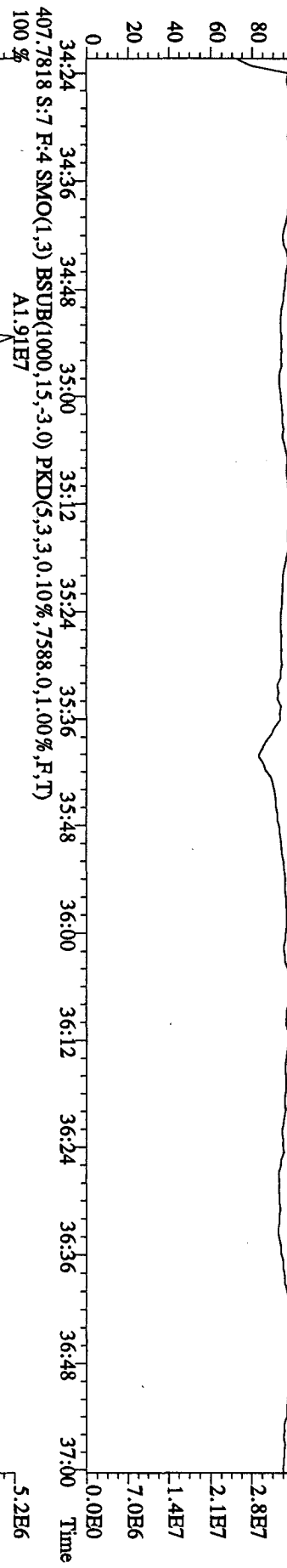
File:28OC104D5 #1-470 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SFR Autospec-UltimaE
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



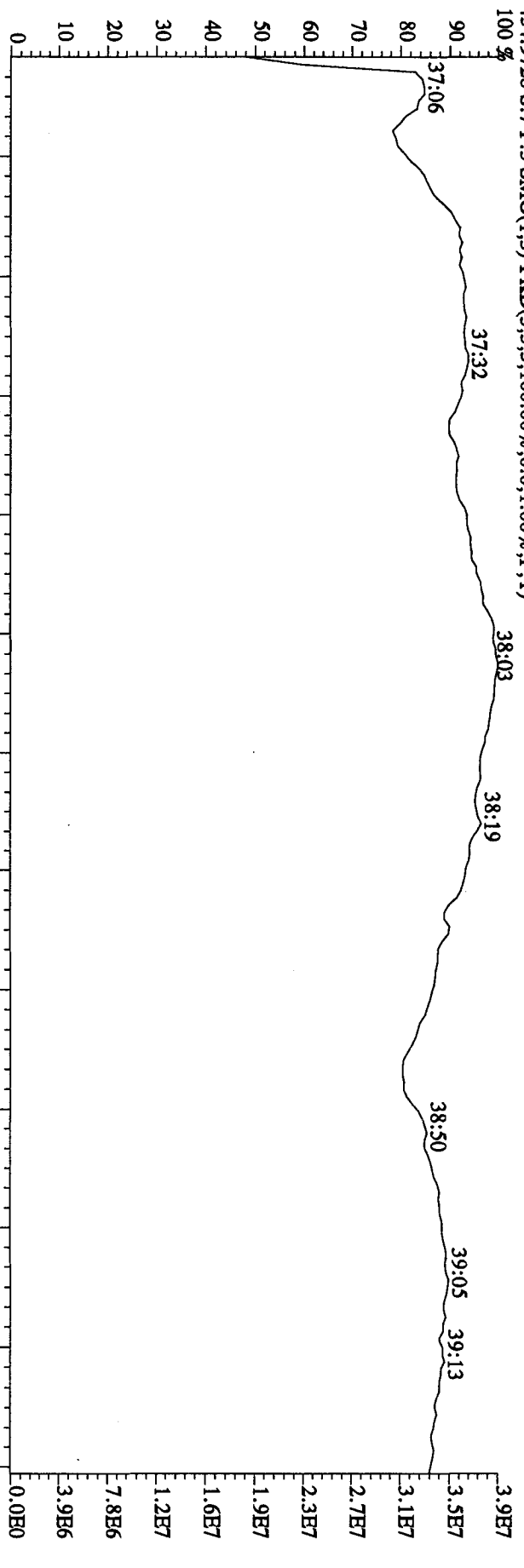
File:280C104D5 #1-287 Acq:28-OCT-2010 14:04:29 GC EI + Voltage SIR Autospec-Ultimate
 Sample#7 Text:CP1028A :DB-5 CPM 3732-10 Exp:DIOXINRES
 392.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



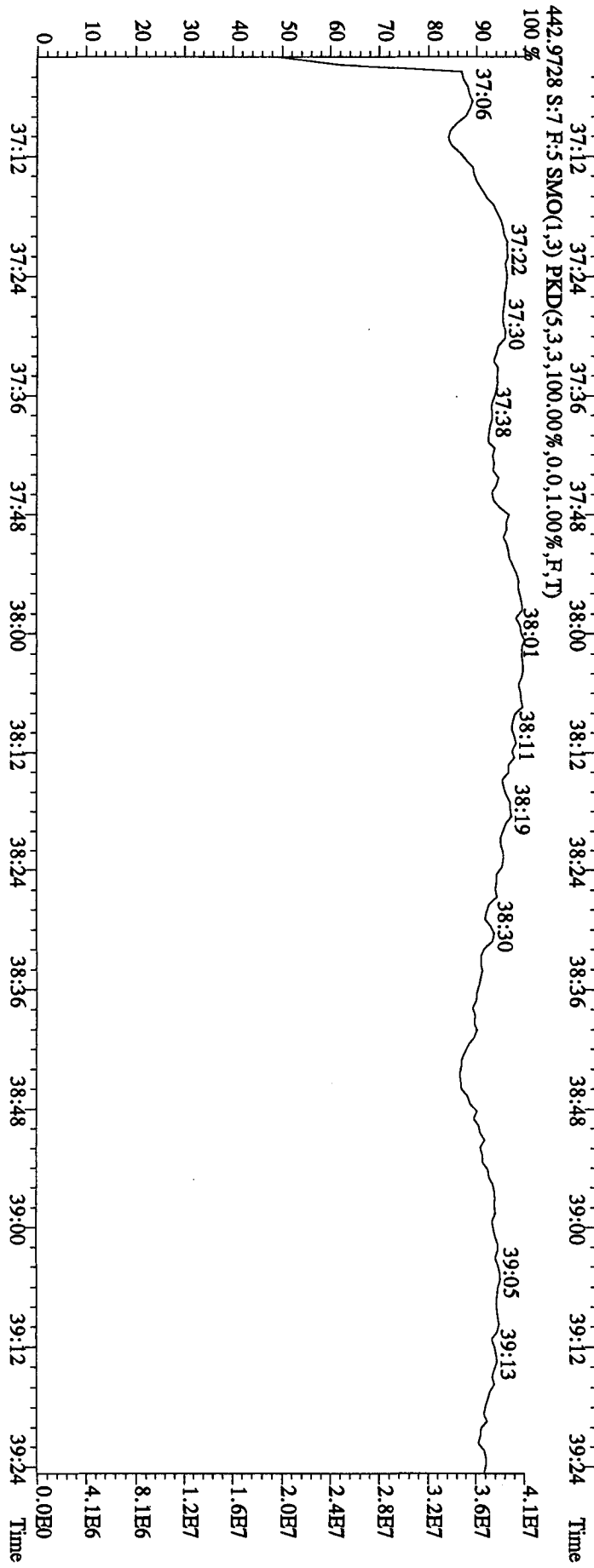
File:28OC104D5 #1-200 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:34 34:45 35:13 35:58 36:07 36:17 36:44 3.5E7



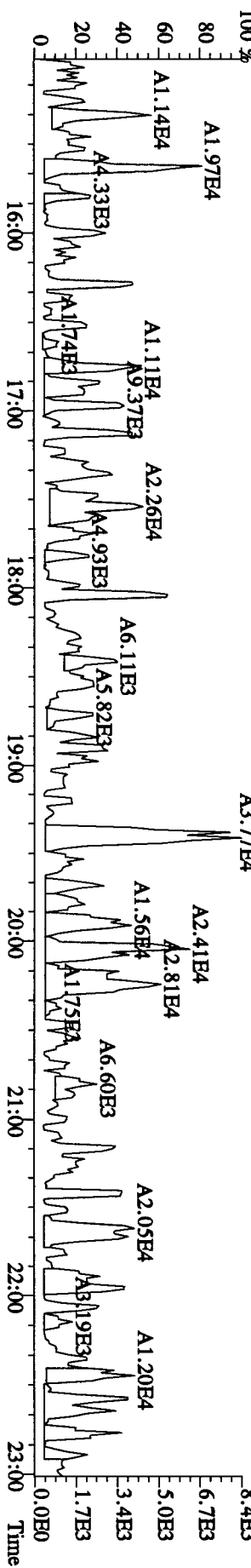
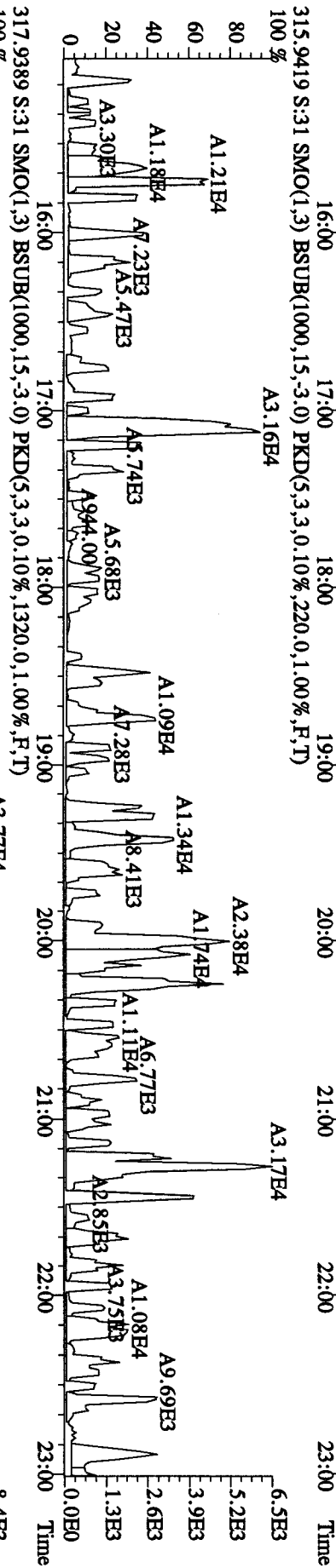
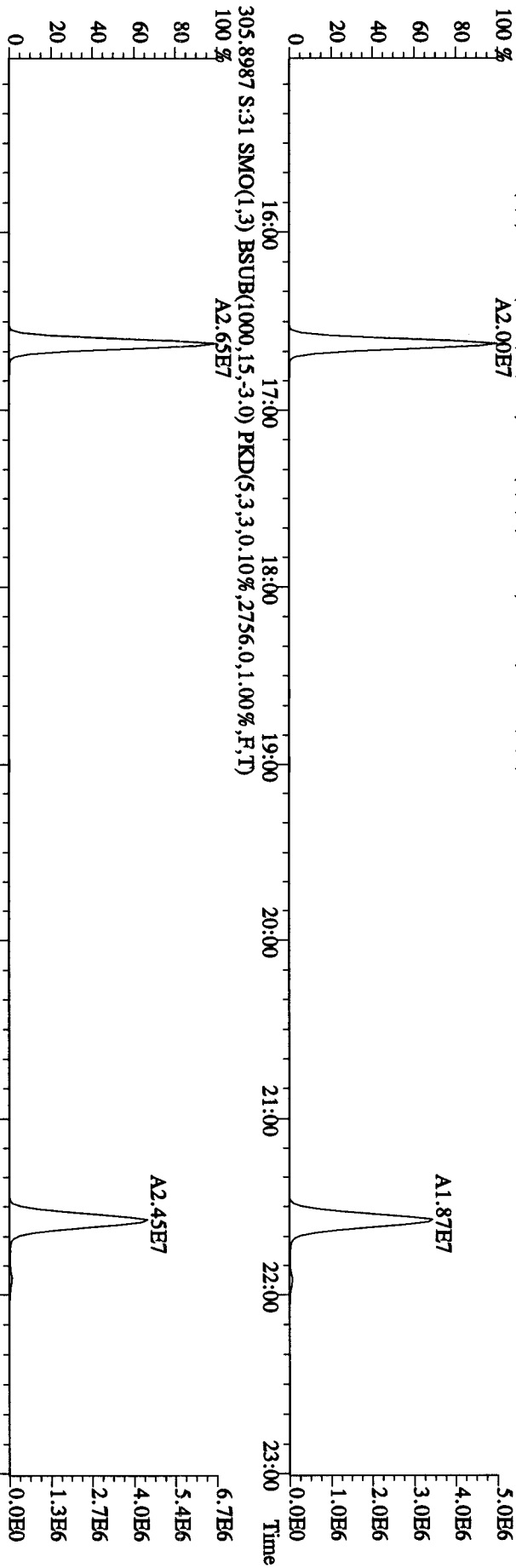
File:28OC104D5 #1-193 Acq:28-OCT-2010 14:04:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



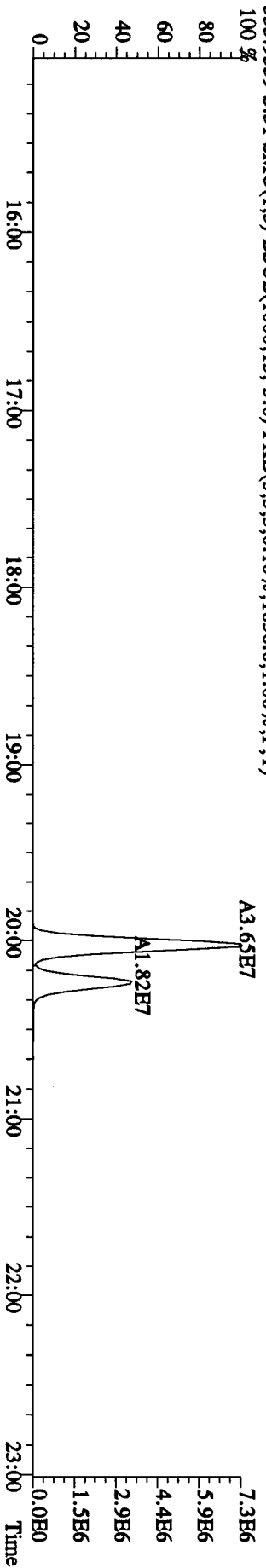
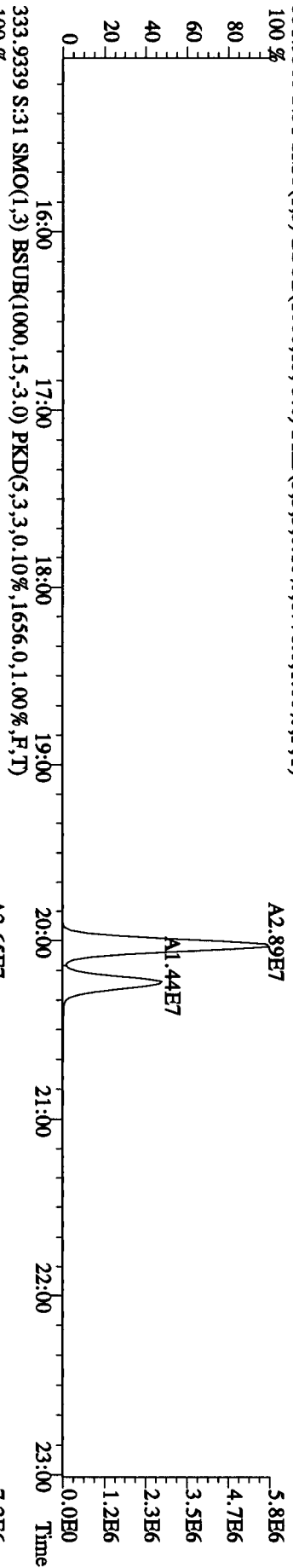
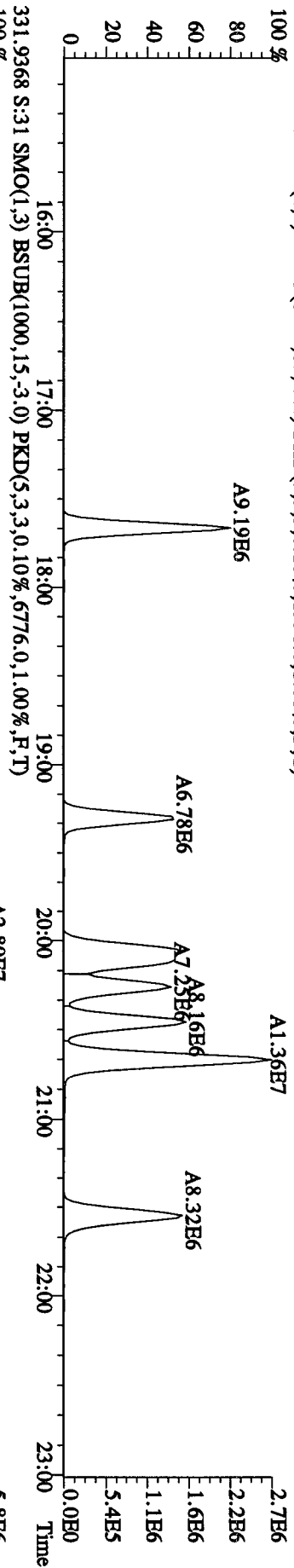
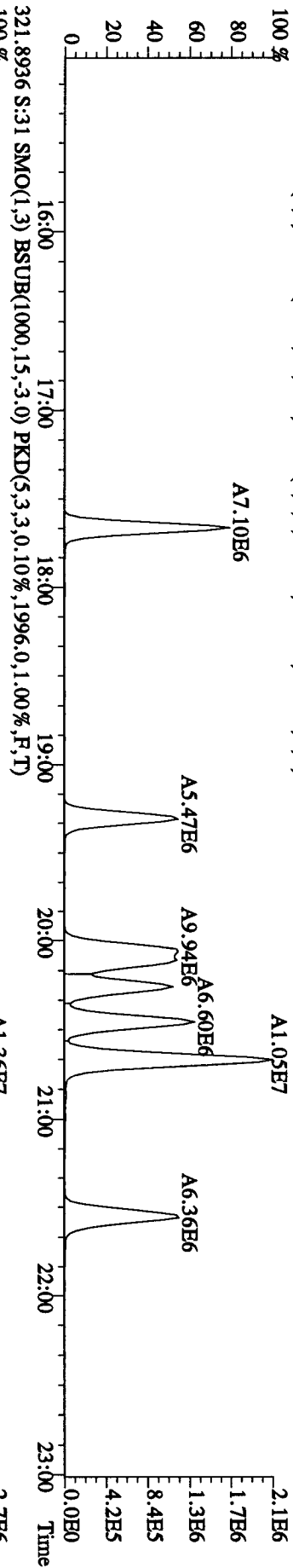
442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



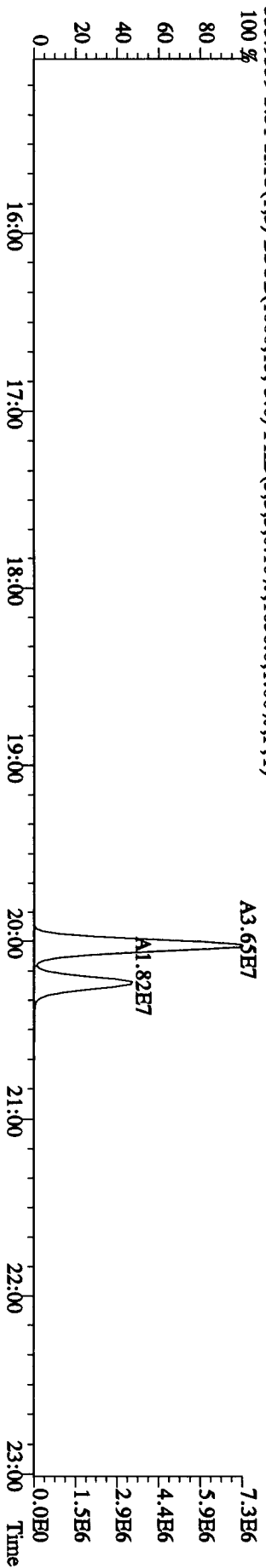
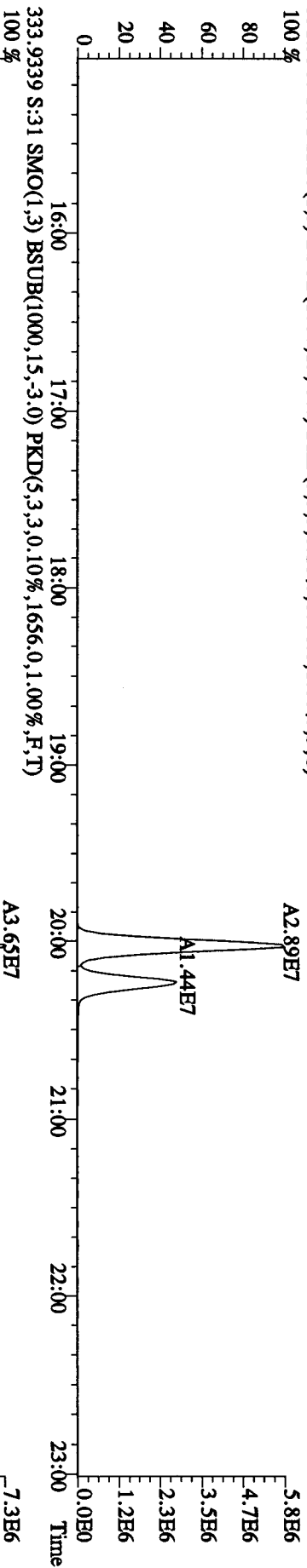
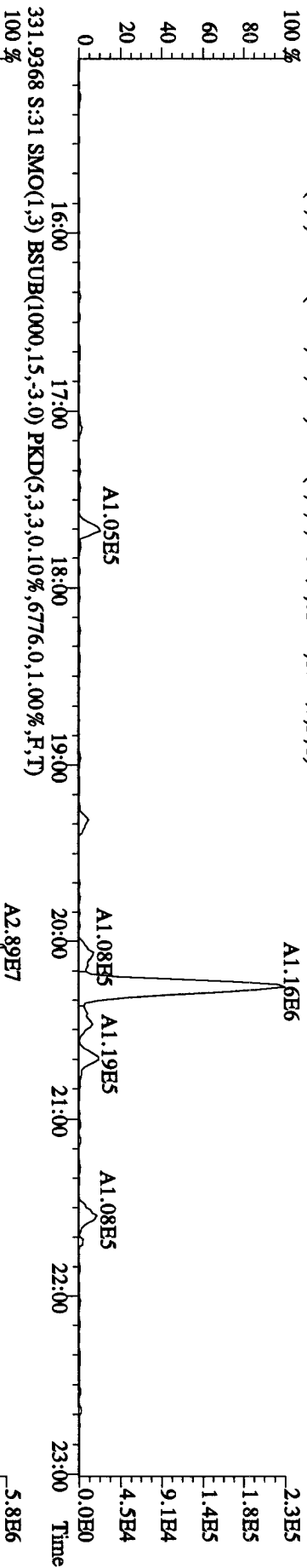
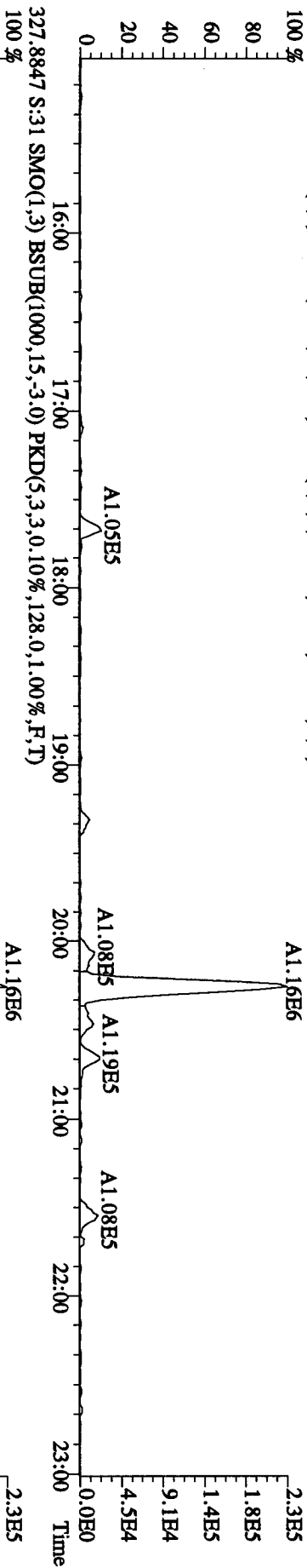
File:280C104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CPM 3732-10 Exp:DIOXINRES
 305.8987 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756,0,1.00%,F,T)
 100% A2.00E7



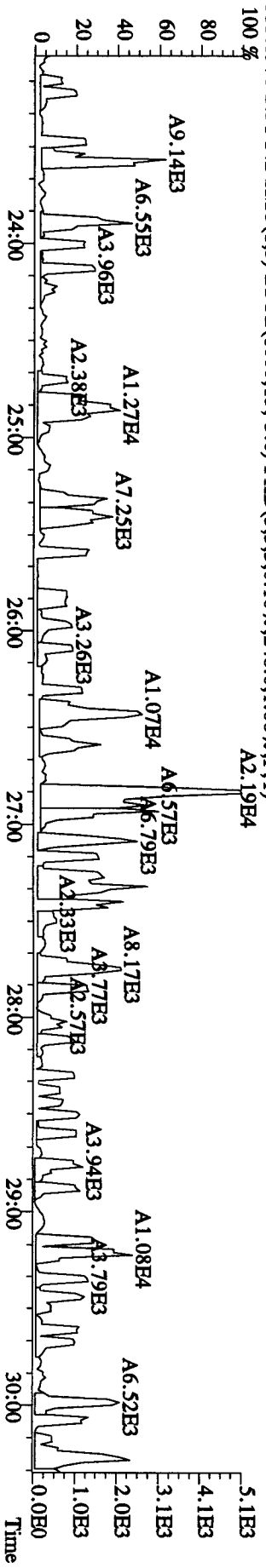
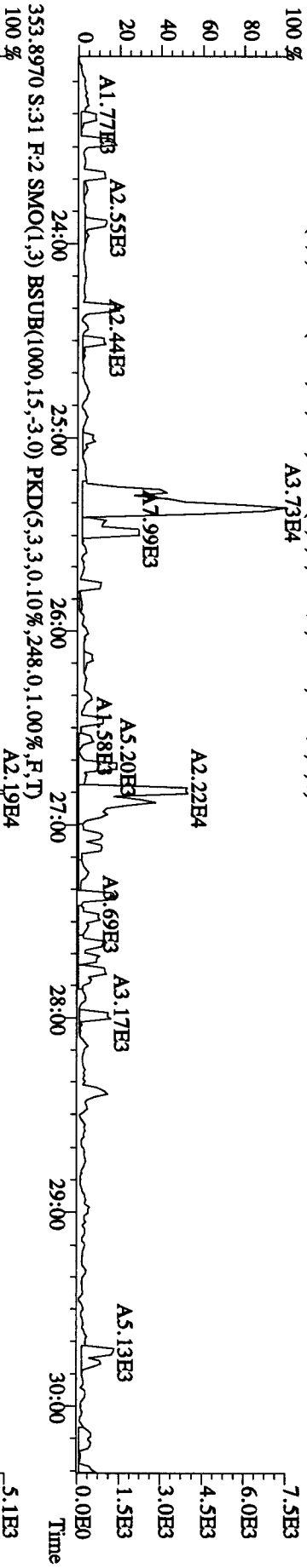
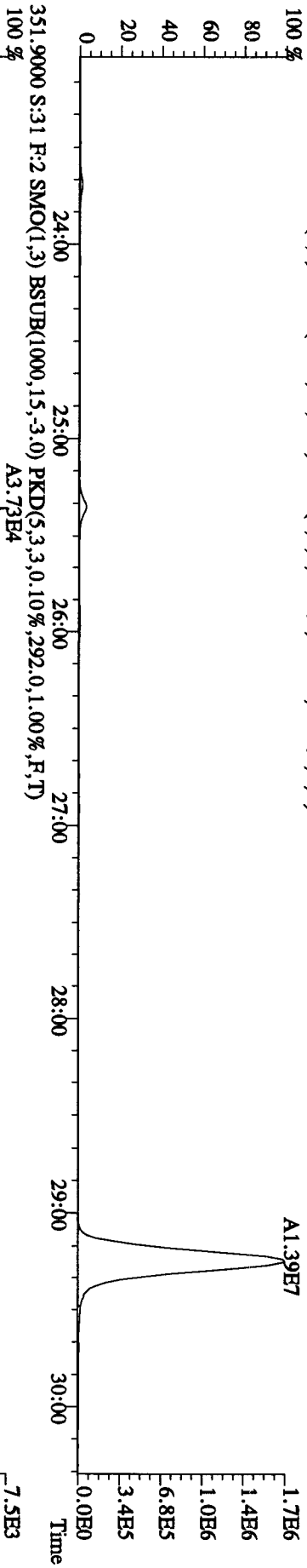
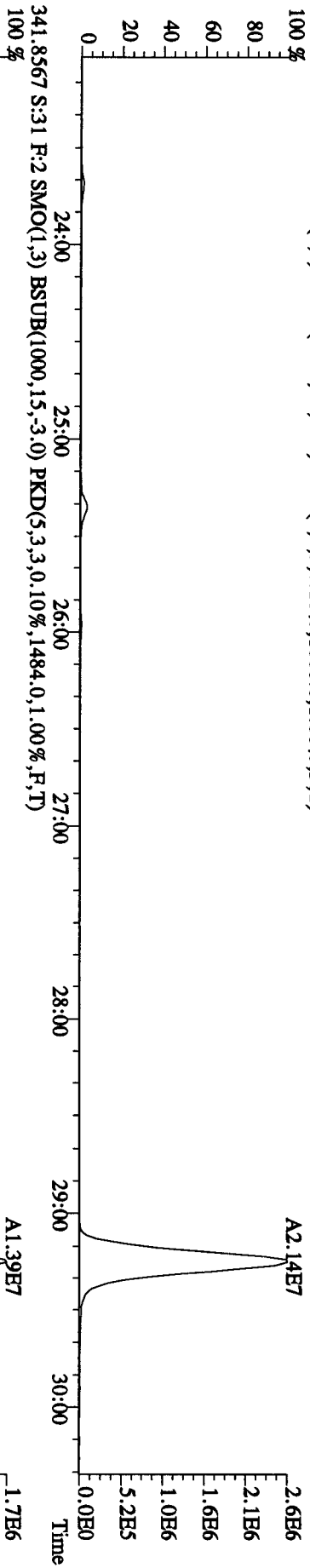
File:280C104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#31 Text:CP1028A :DB-5 C/PSM 3732-10 Exp:DIOXINRES
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1412.0,1.00%,F,T)
 100%



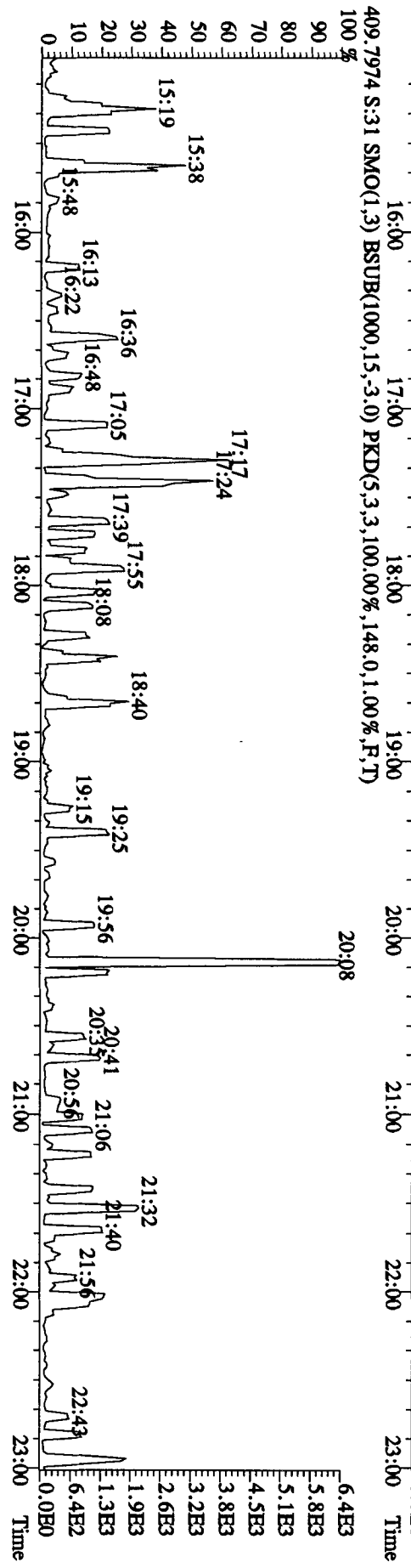
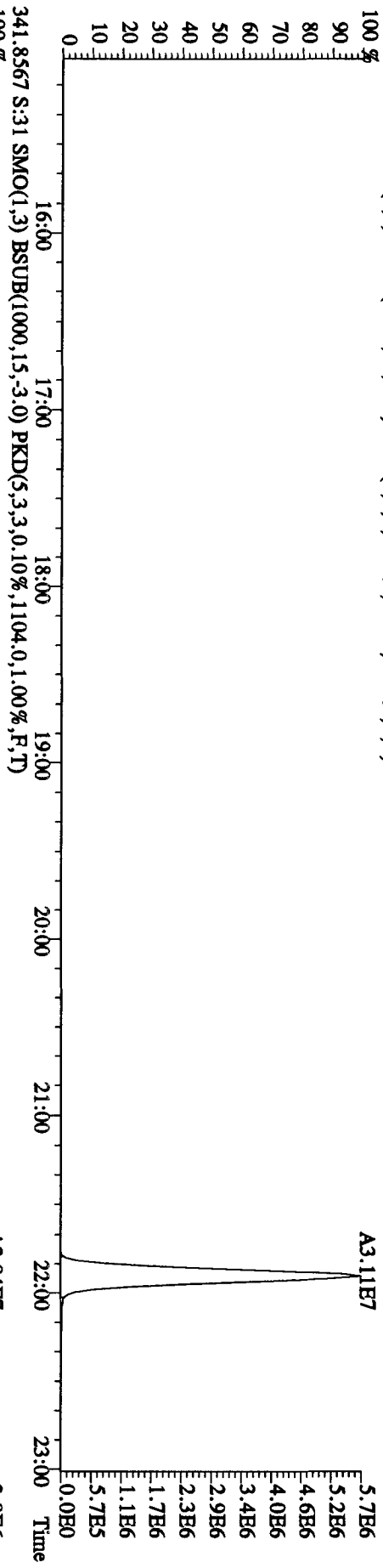
File:280C104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CPM 3732-10 Exp:DIOXINRES
 327.8847 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T) 100%



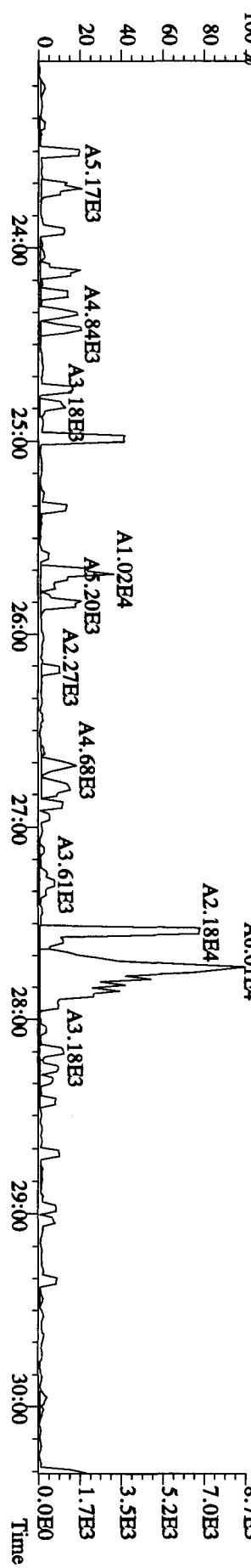
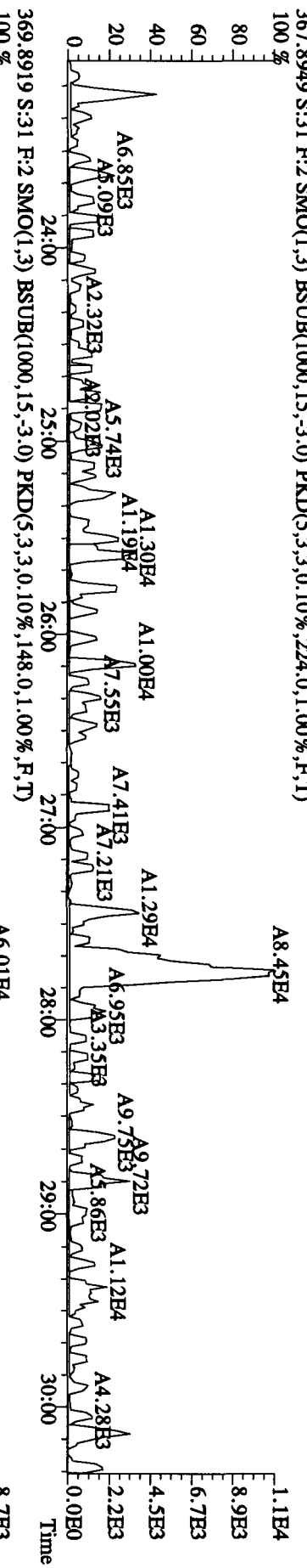
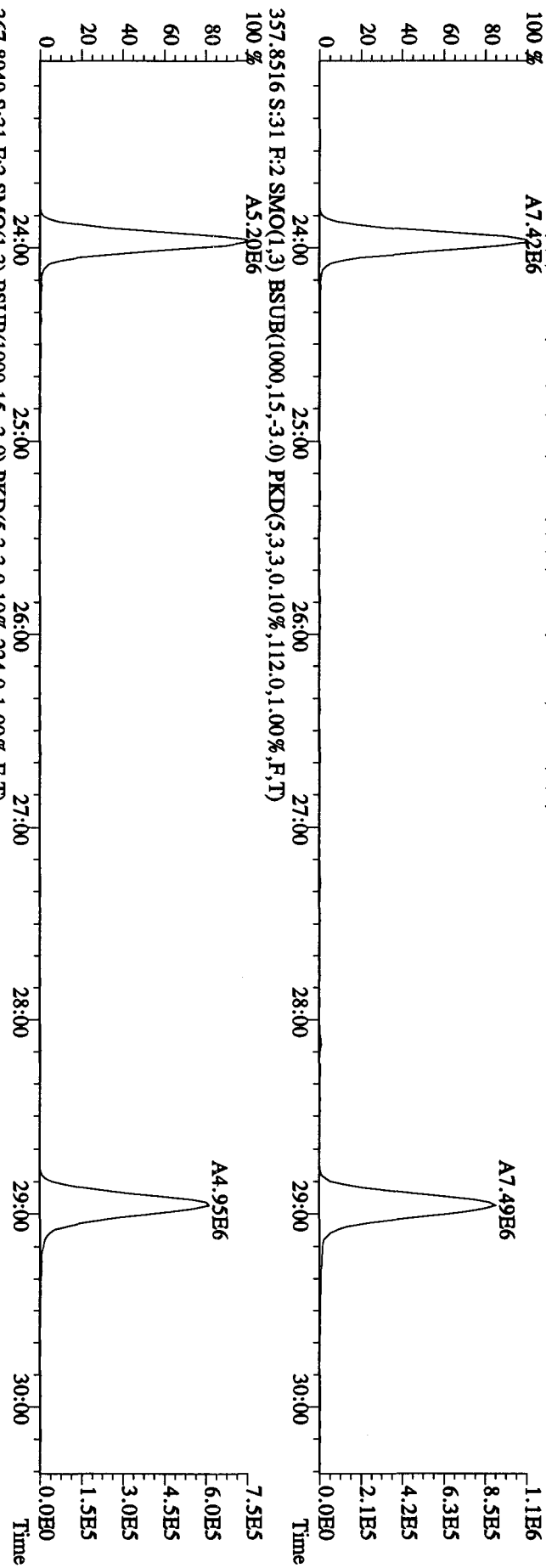
File:28OC104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#31 Text:CP1028A :DB-5 CPM 3732-10 Exp:DIOXINRES
 339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1000,0,1,00%,F,T)



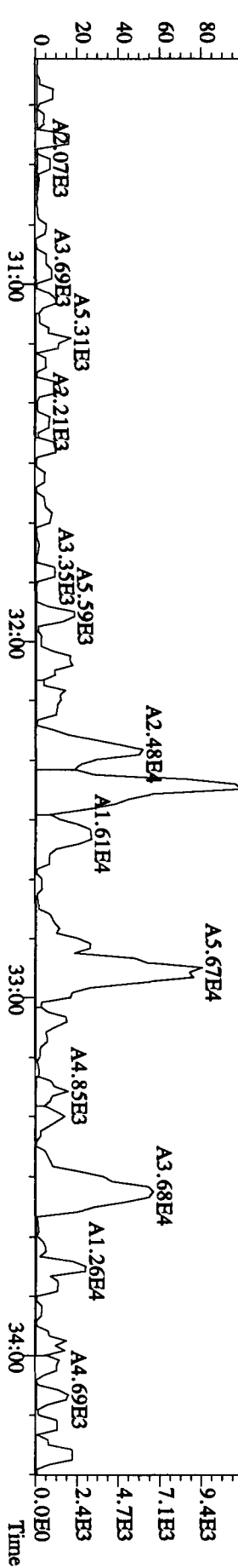
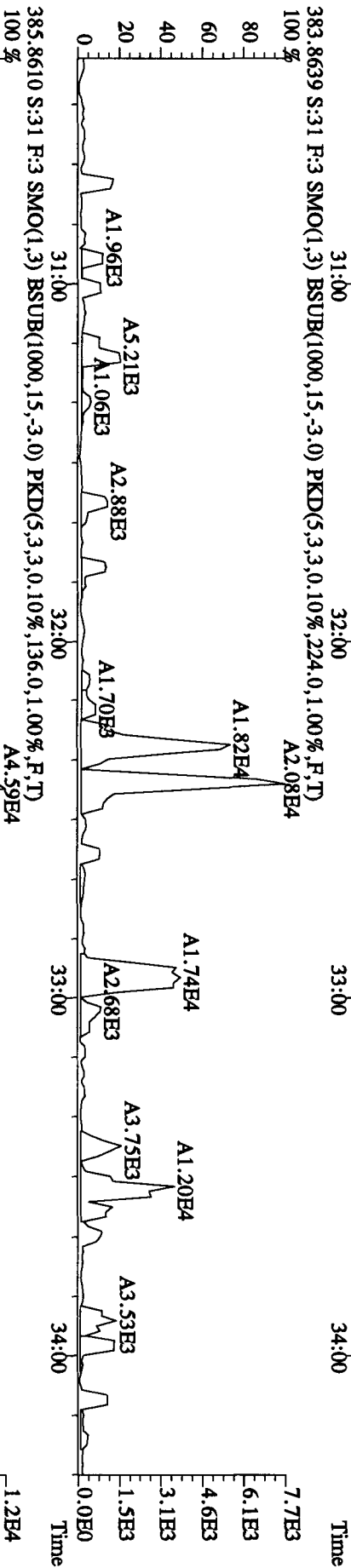
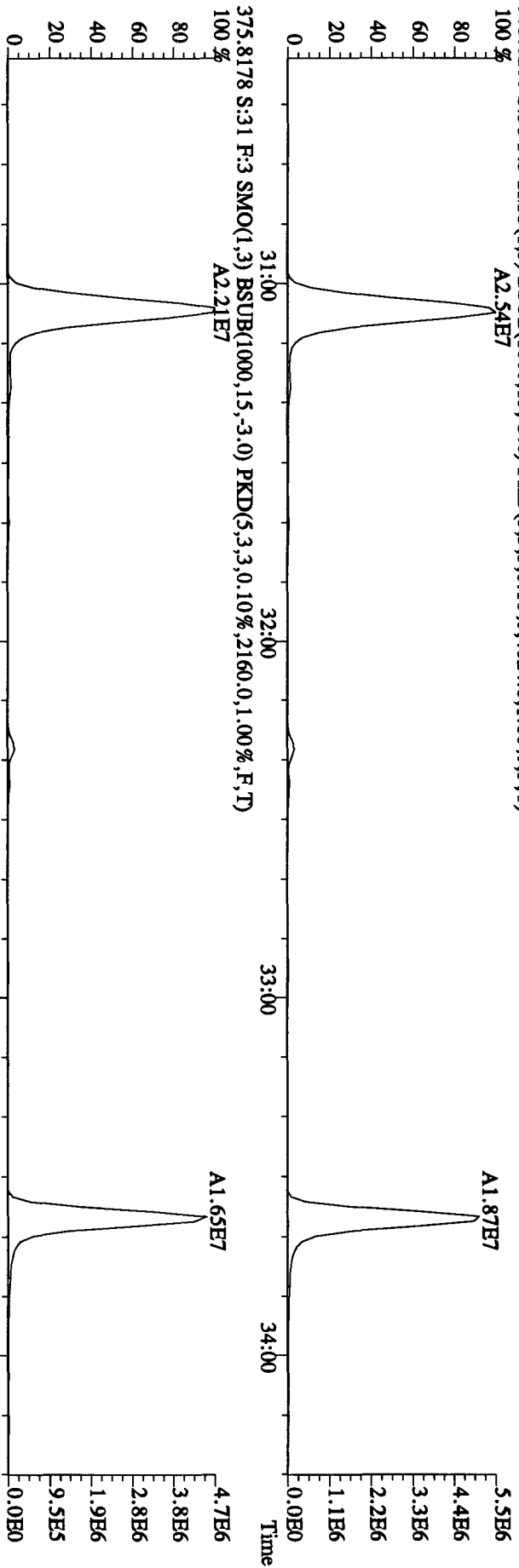
File:28OC104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CFSM 3732-10 Exp:DIOXINRES
 339.8597 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,124.0,1.00%,F,T)



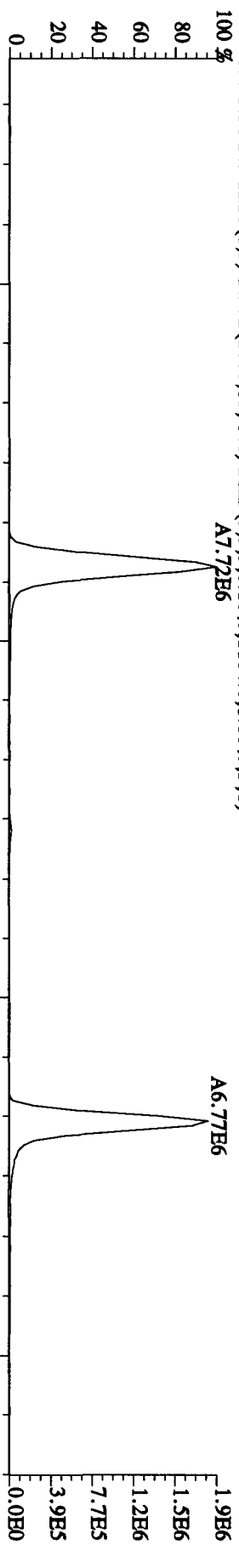
File:280C104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC BI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 355.8546 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1472.0,1.00%,F,T)
 A7.42E6



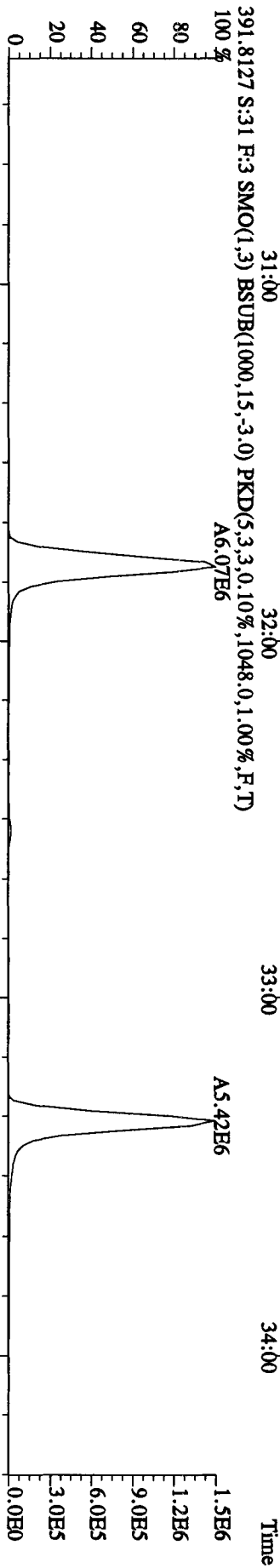
File:280C104D5 #1-286 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4024,0,1,100%,F,T)
 100 % A2.54E7



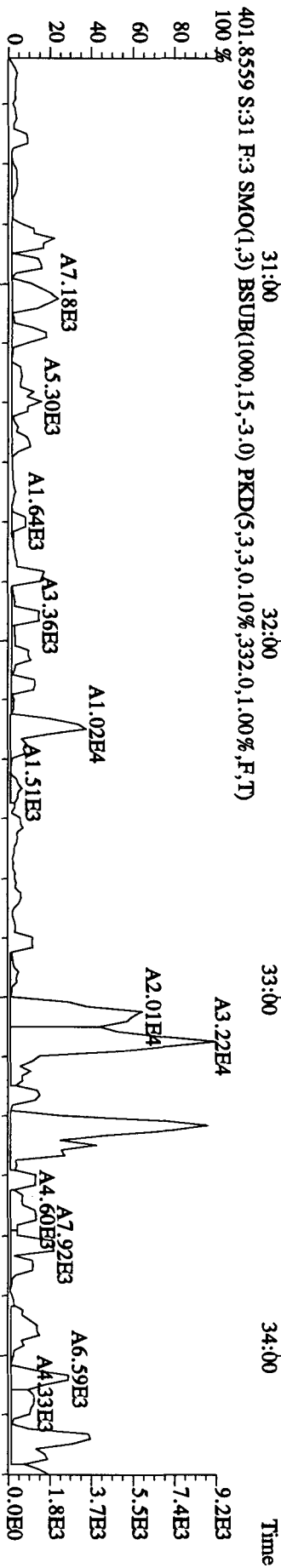
File:280C104D5 #1-286 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CPISM 3732-10 Exp:DIOXINRES
 389,8157 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1104.0,1.00%,F,T)
 100 % A7.72E6



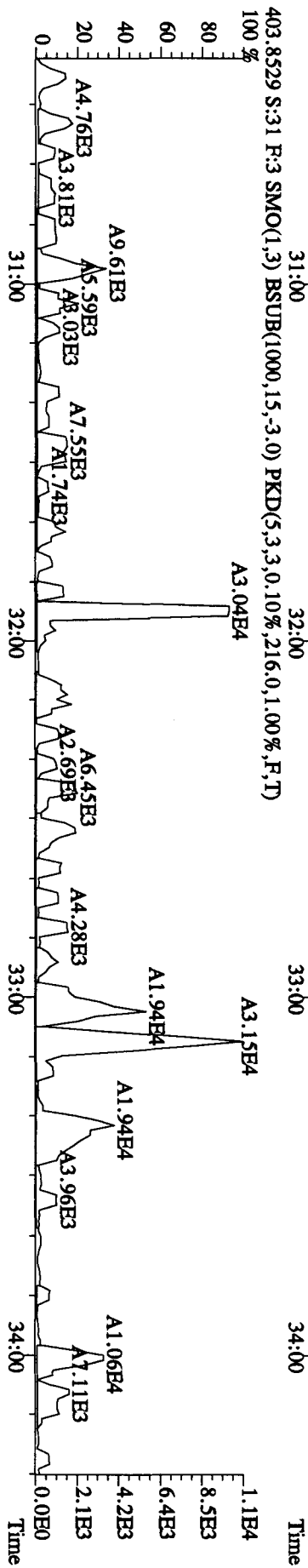
391,8127 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1048.0,1.00%,F,T)
 100 % A6.07E6



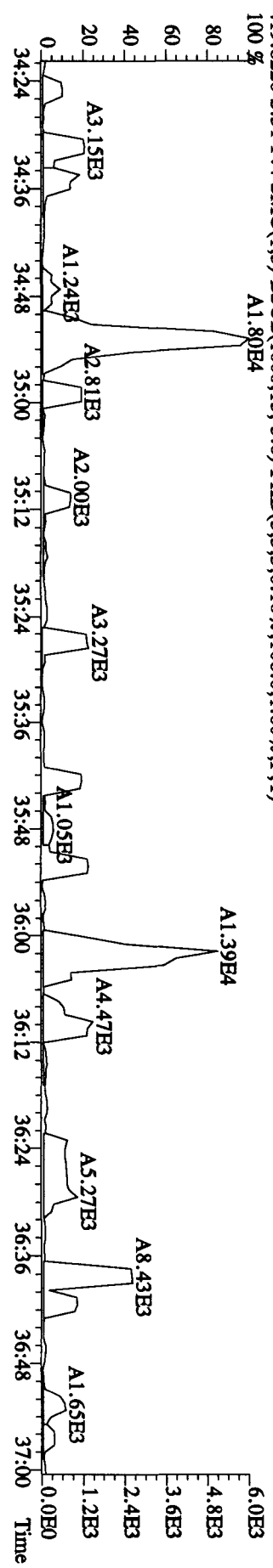
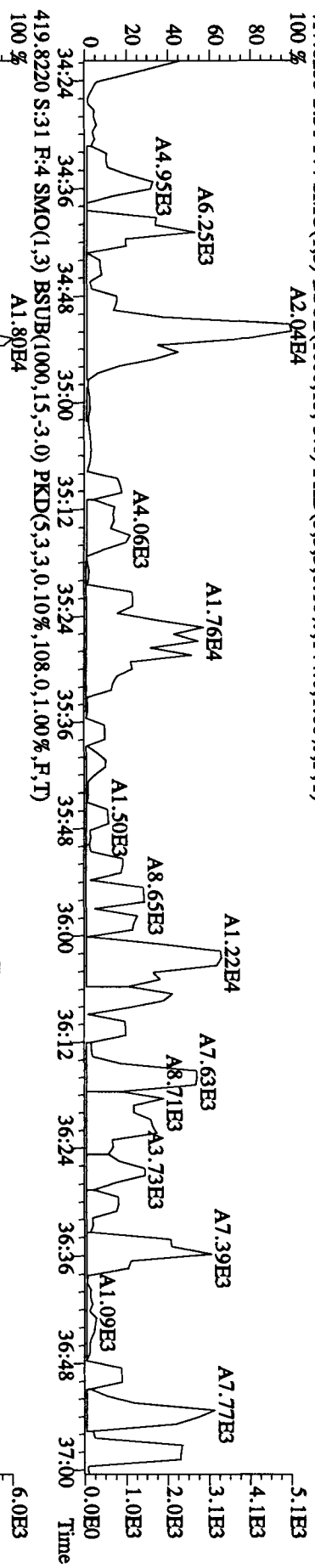
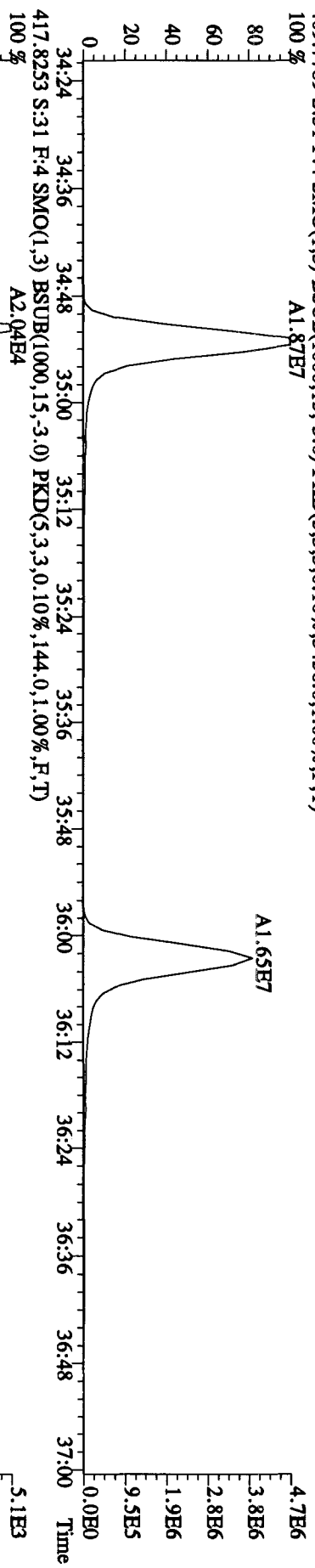
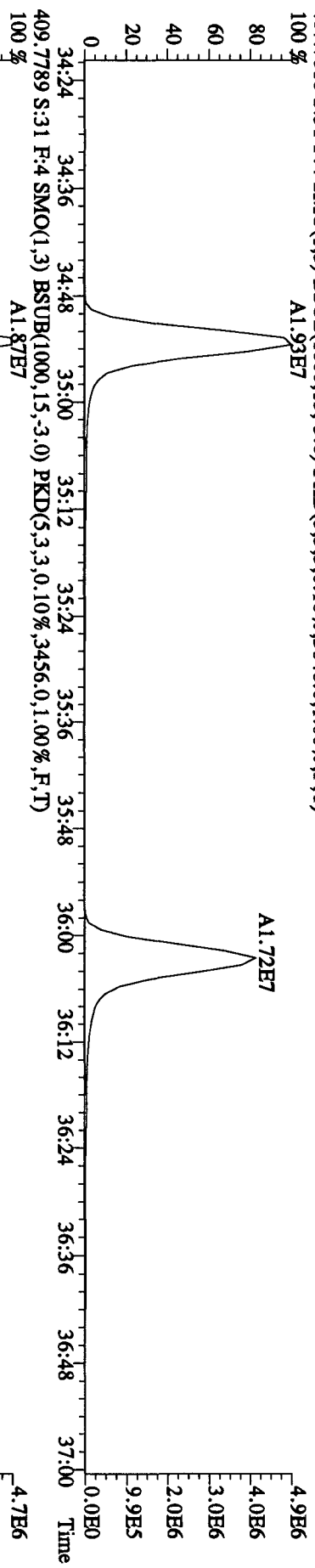
401,8559 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,332.0,1.00%,F,T)
 100 % A1.02E4



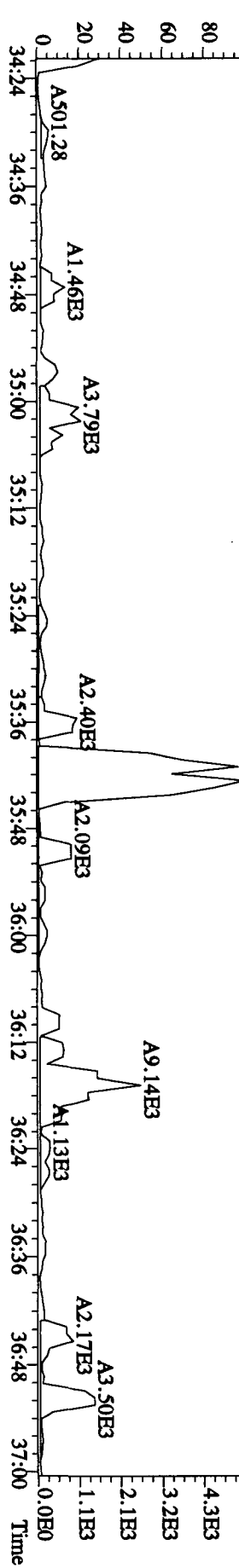
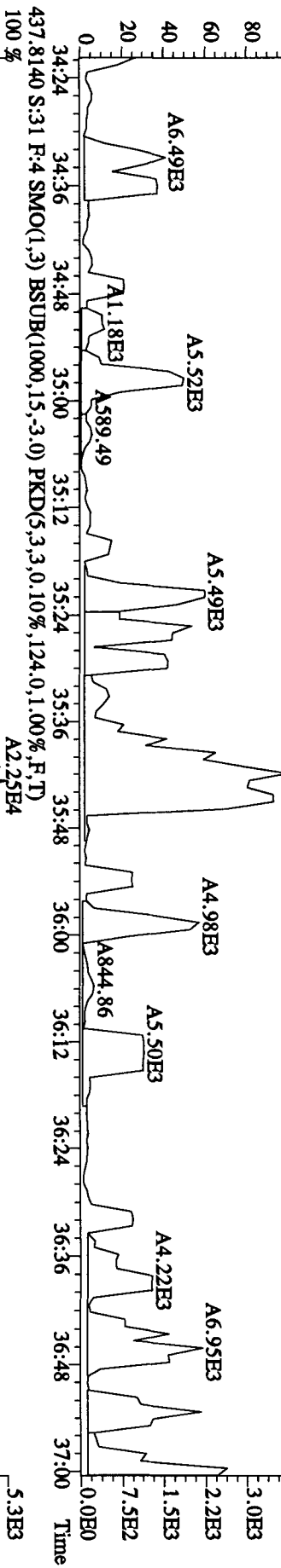
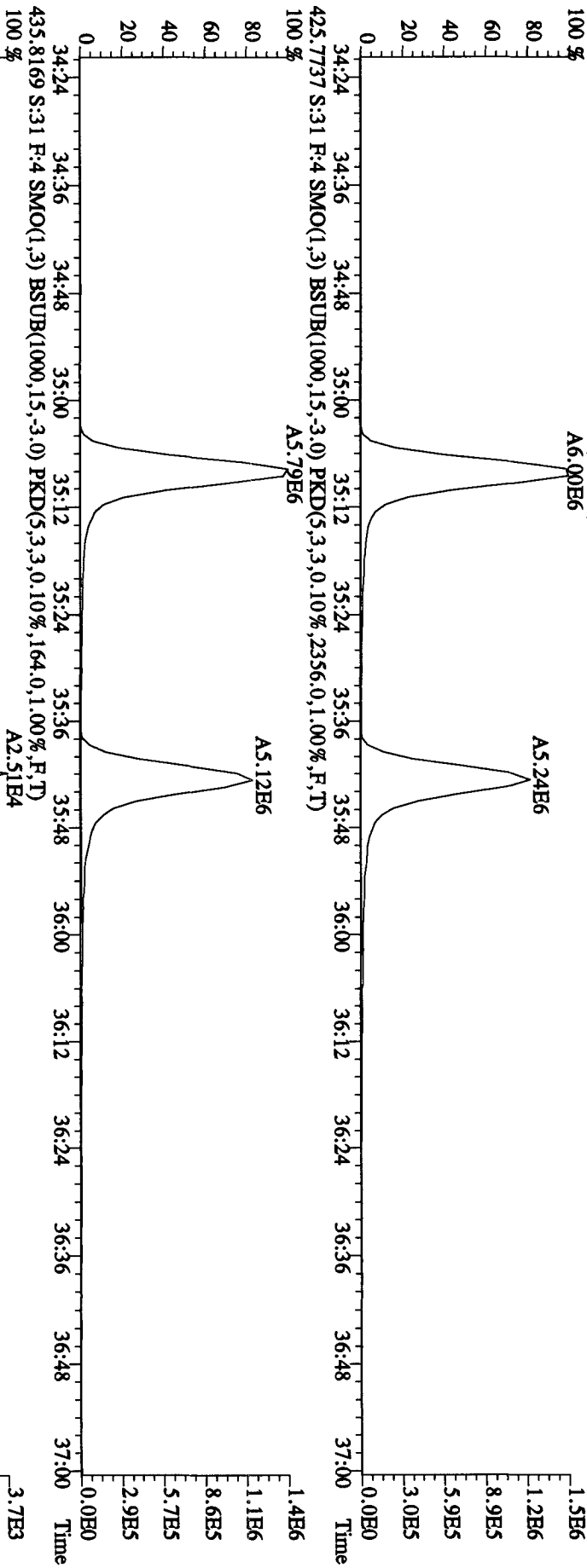
403,8529 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,216.0,1.00%,F,T)
 100 % A3.04E4



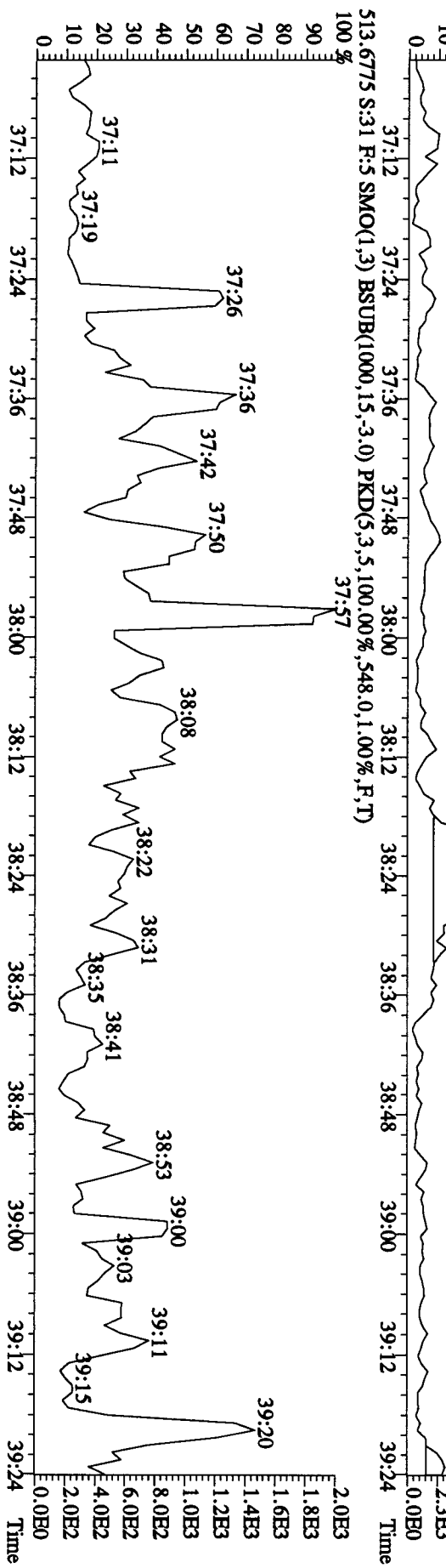
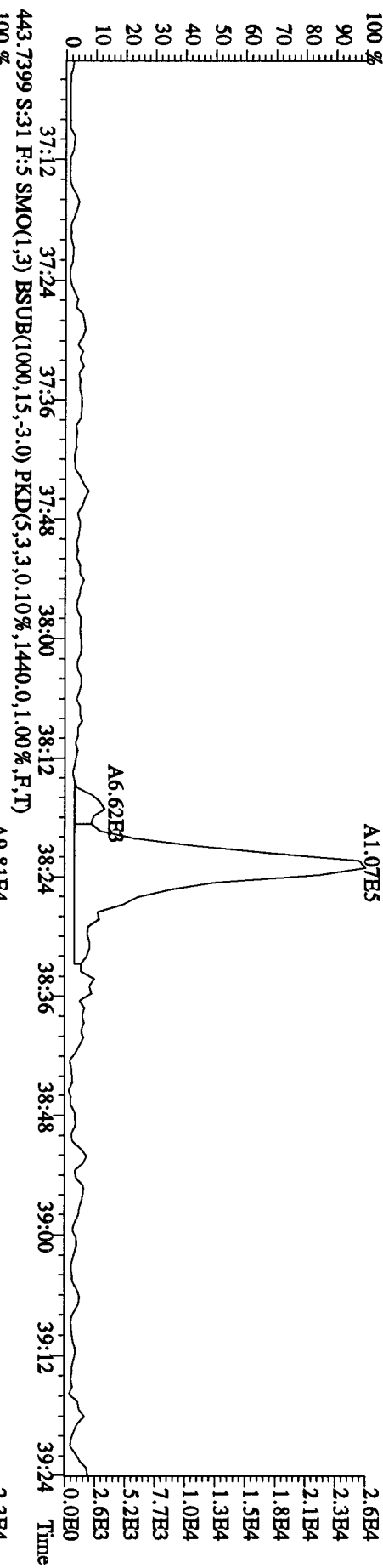
File:28OC104D5 #1-201 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3048,0.1,00%,F,T)
 100% A1.93E7



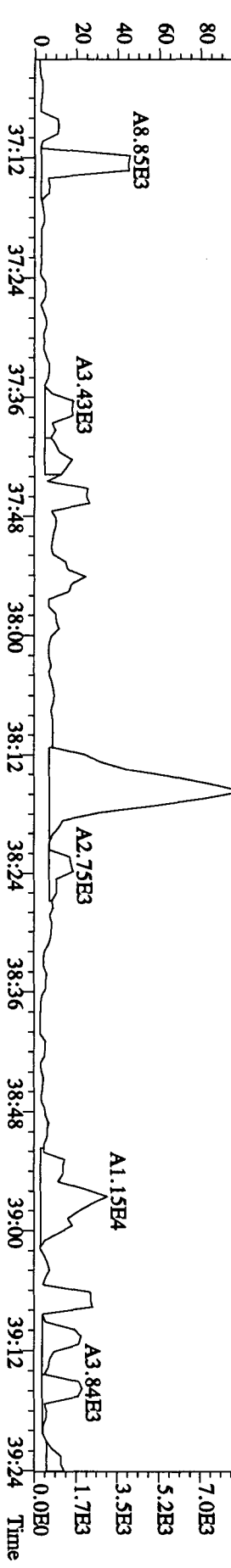
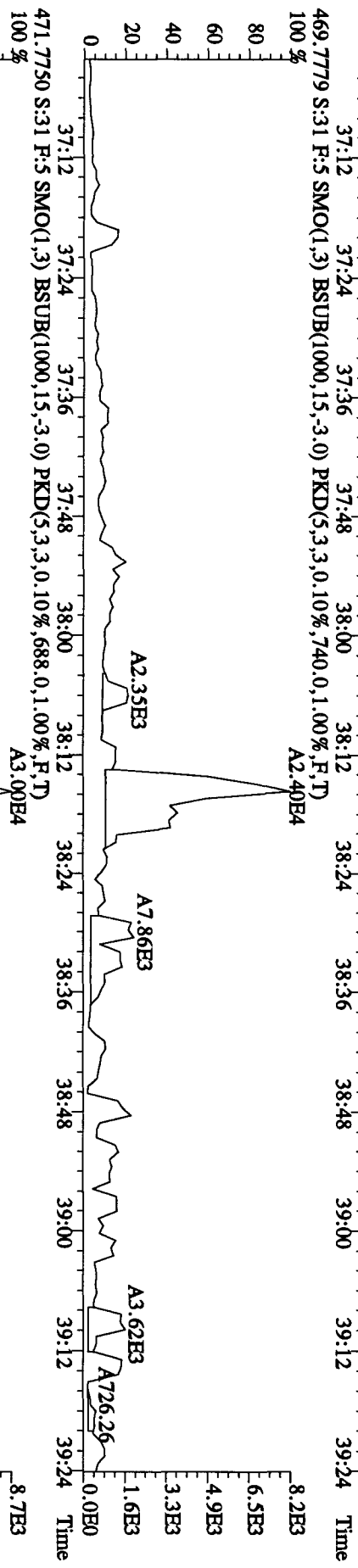
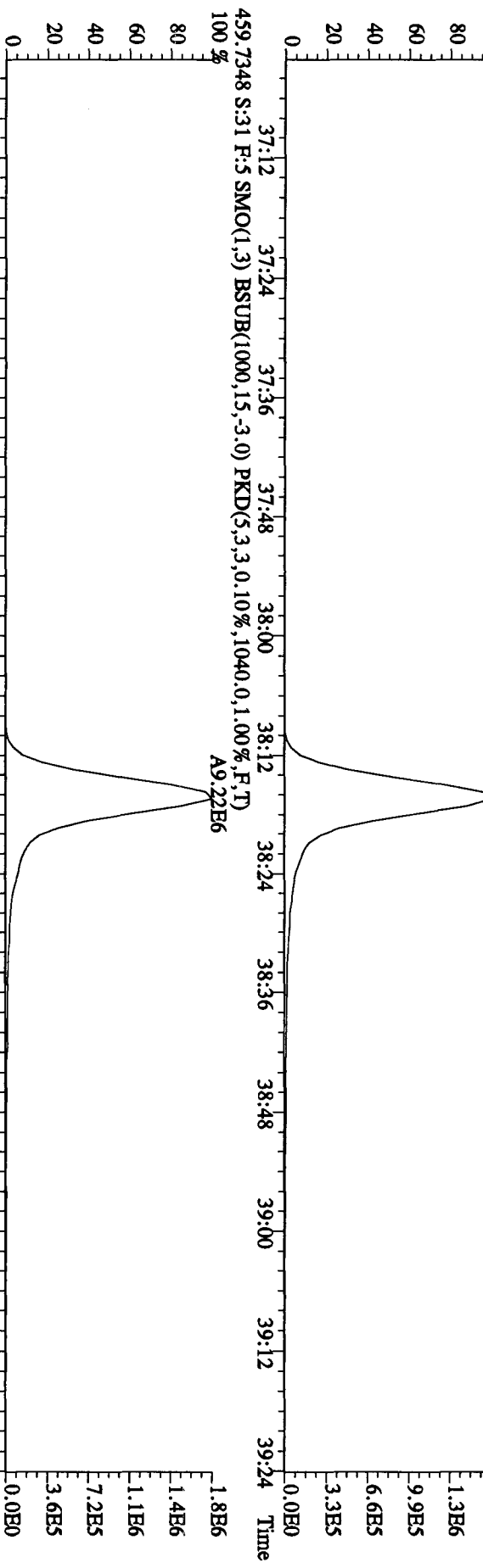
File:280C104D5 #1-201 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 423.7766 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1864.0,1.00%,F,T)
 100 % A6.00E6



File: 280C104D5 #1-192 Acq: 29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text: CP1028A :DB-5 CFRSM 3732-10 Exp: DIOXINRES
 441.7428 S:31 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1192.0,1.00%,F,T)



File:28OC104D5 #1-192 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 457.7377 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2212.0,1.00%,F,T)
 100%

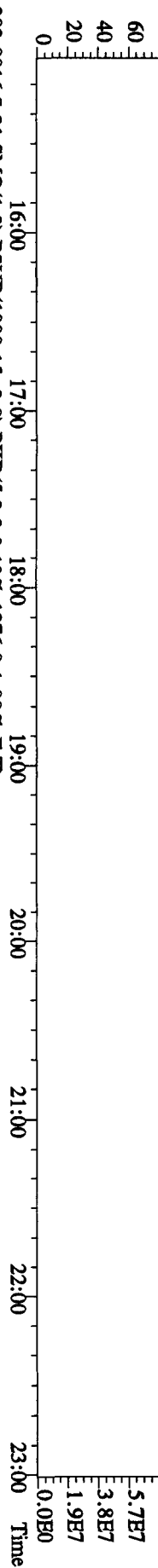


File:28OC104D5 #1-530 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate

Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES

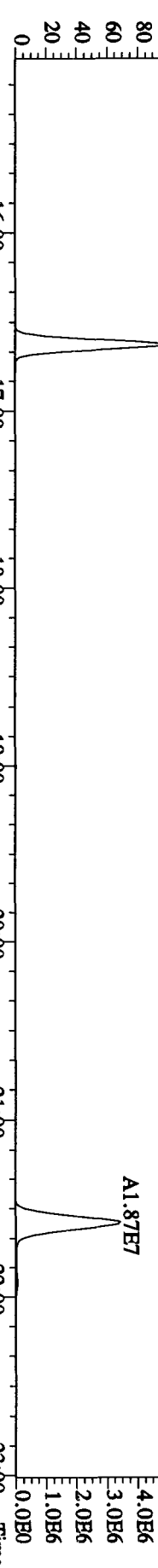
292.9825 S:31 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)

100% 15:16 15:53 16:26 16:53 17:18 17:53



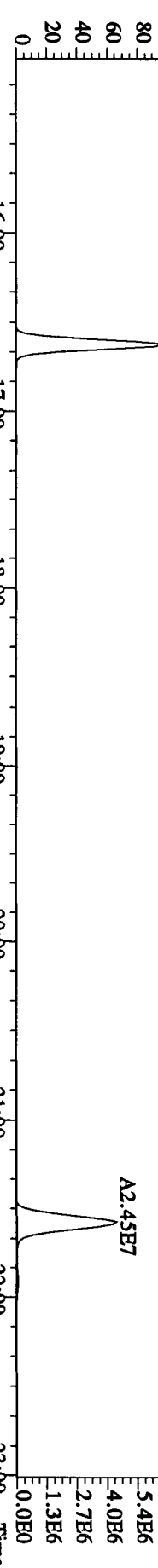
303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1376,0,1,00%,F,T)

100% 16:00 16:26 16:53 17:18 17:53



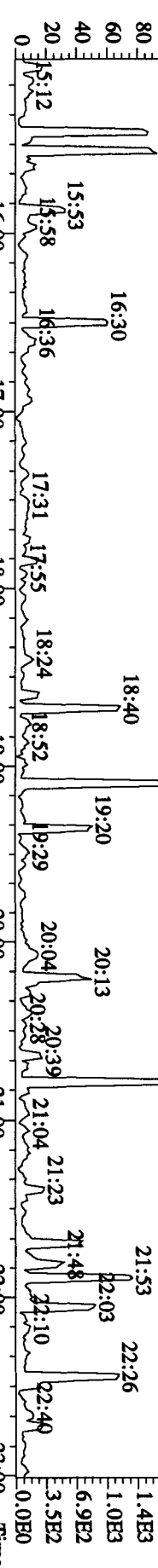
305.8987 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2756,0,1,00%,F,T)

100% 16:00 16:26 16:53 17:18 17:53



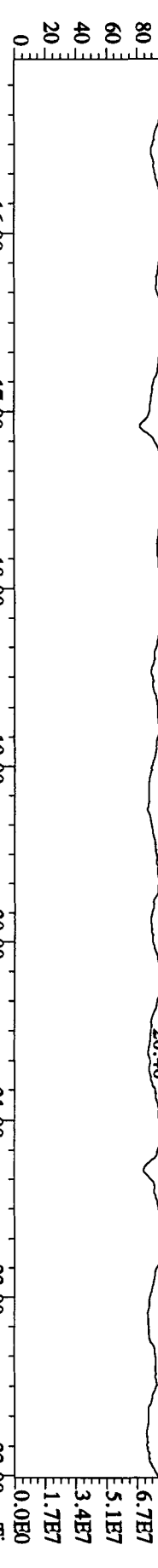
375.8364 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,128,0,1,00%,F,T)

100% 15:33

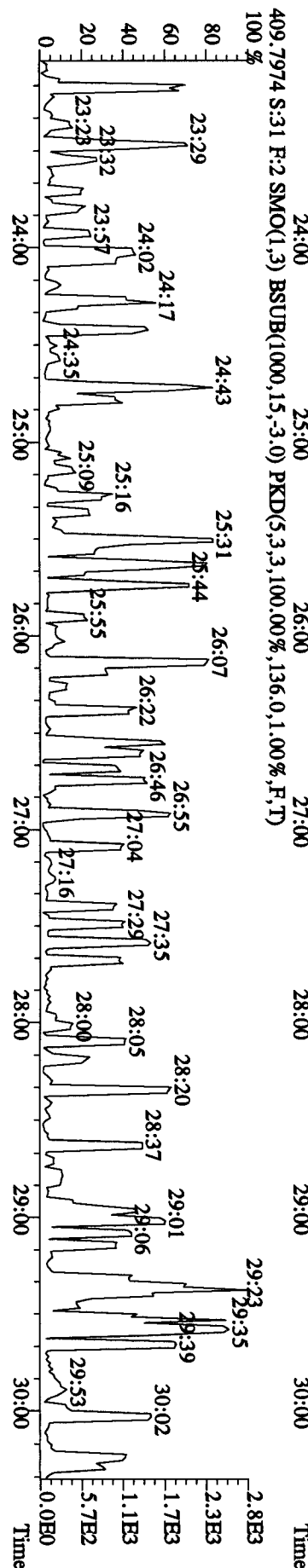
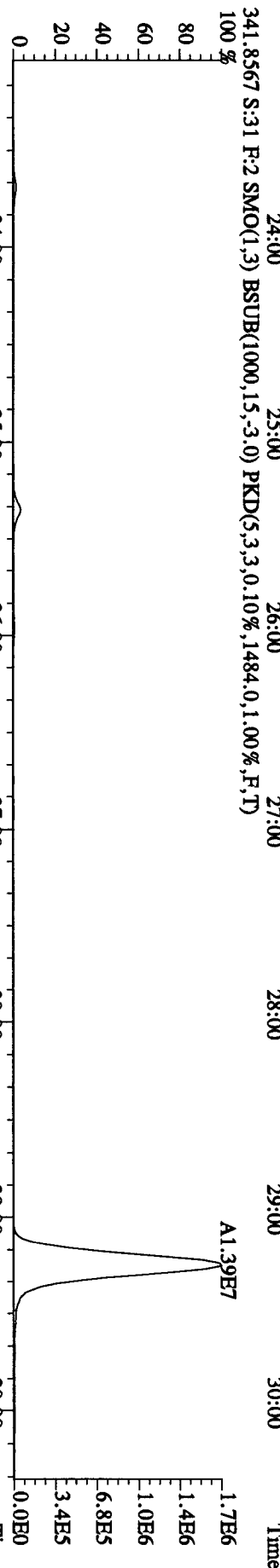
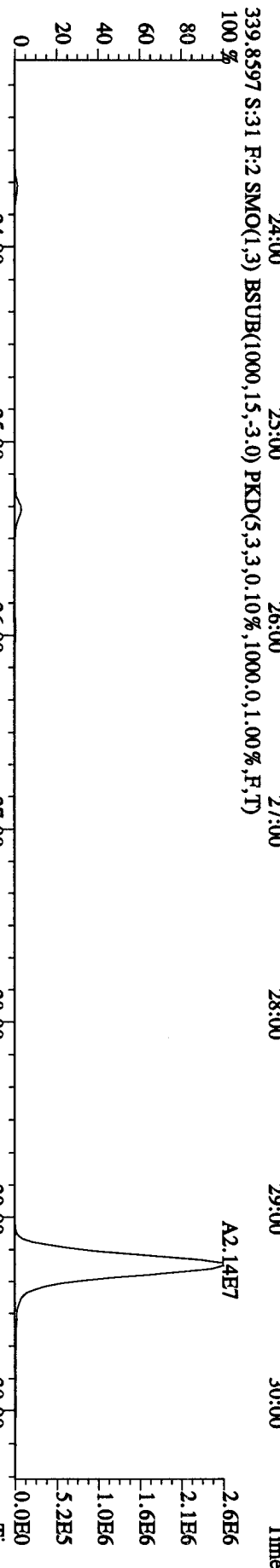
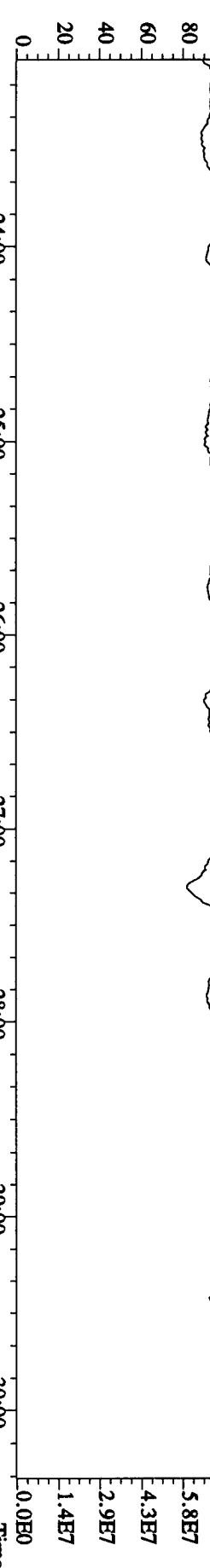


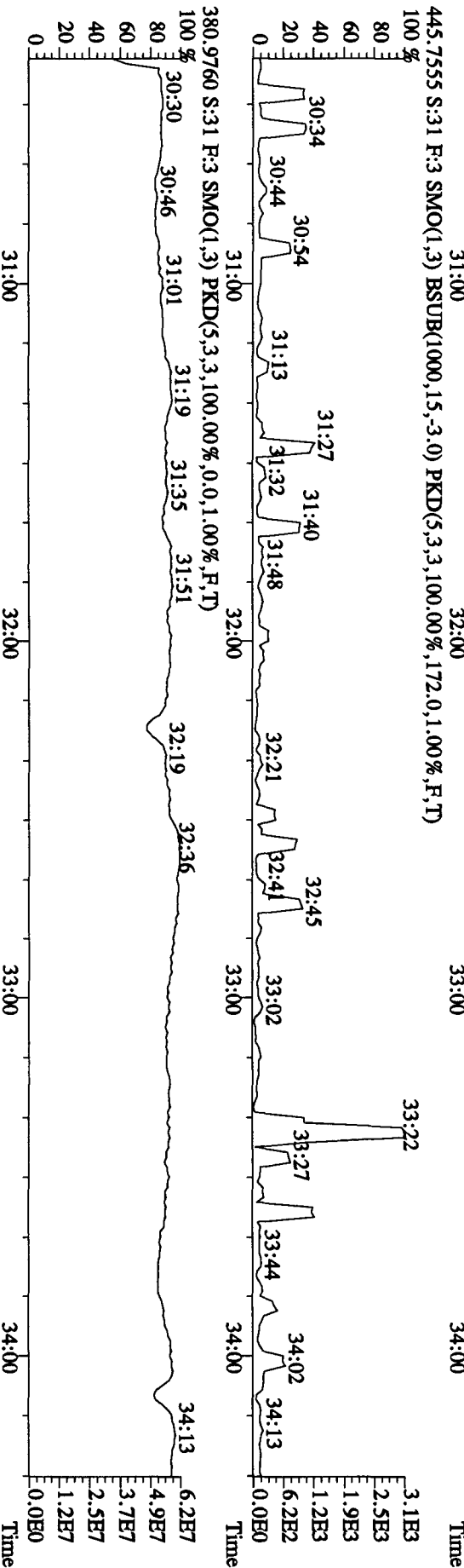
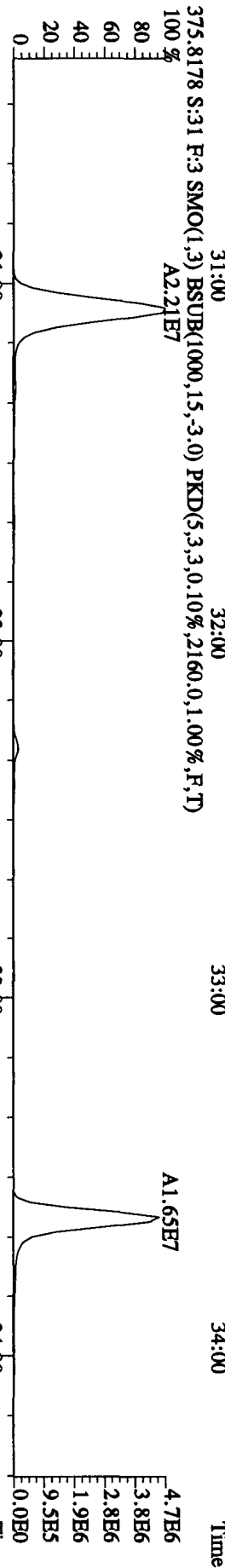
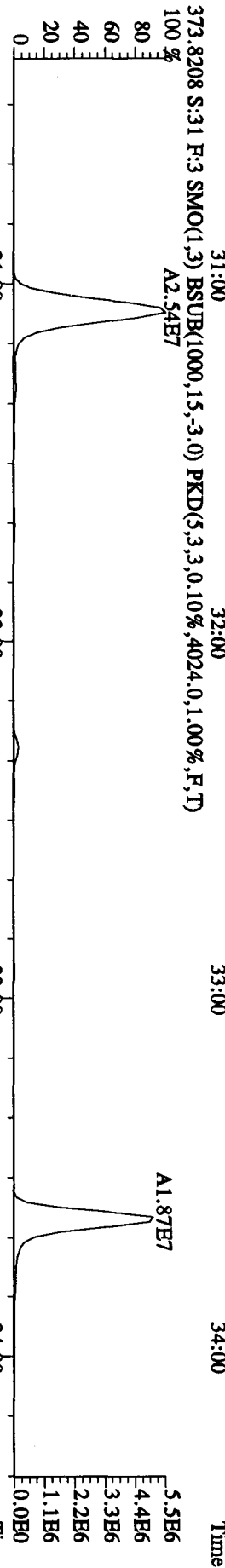
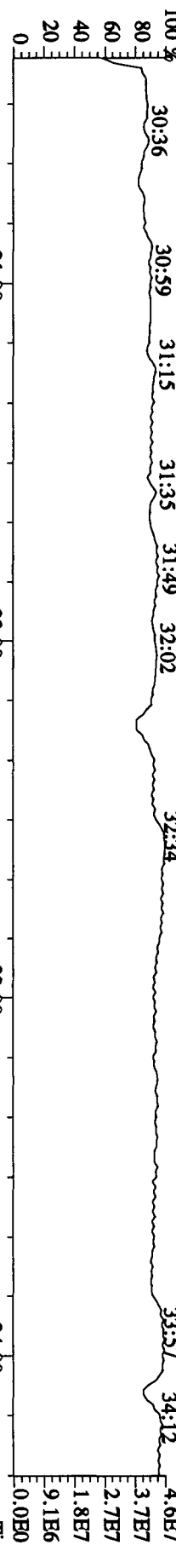
330.9792 S:31 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

100% 15:10 15:59 16:31 17:32 18:04 18:48 19:39 20:13 20:40 21:08 21:34 22:21

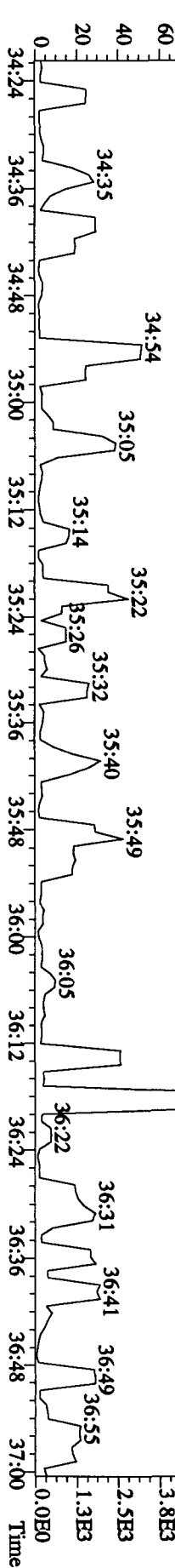
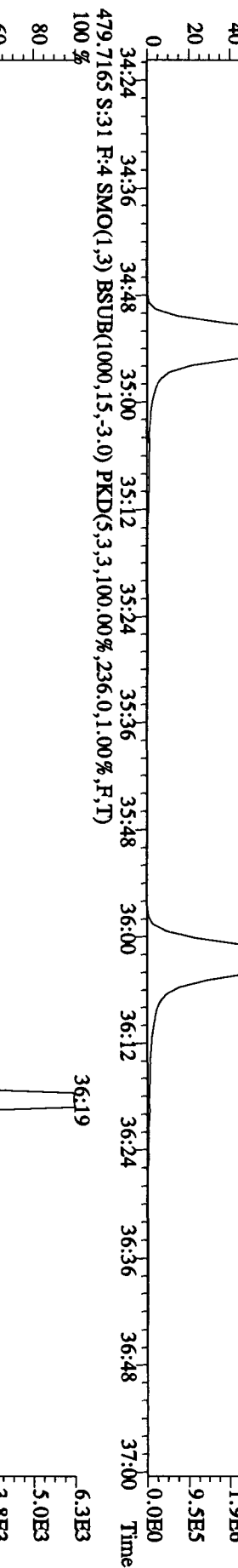
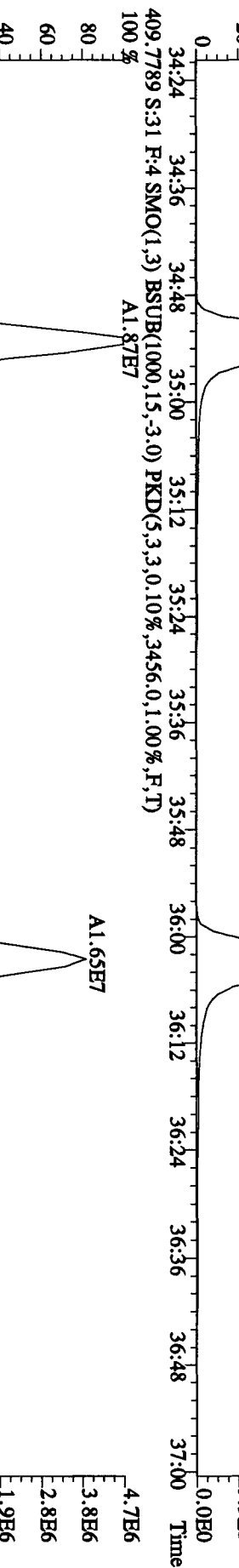
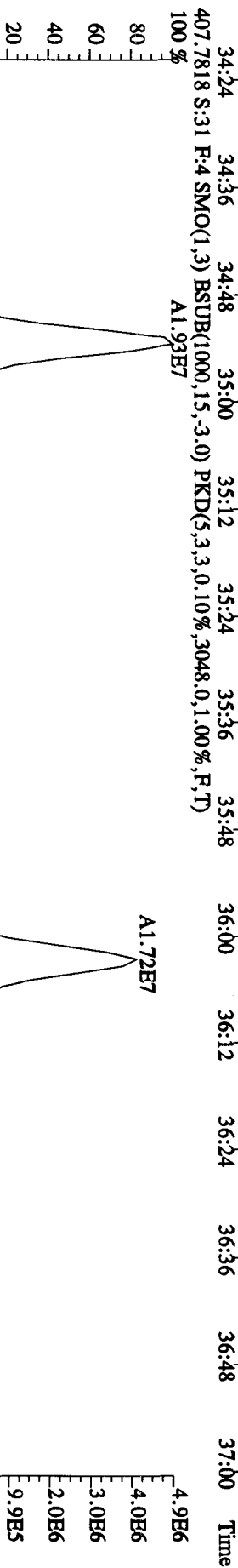
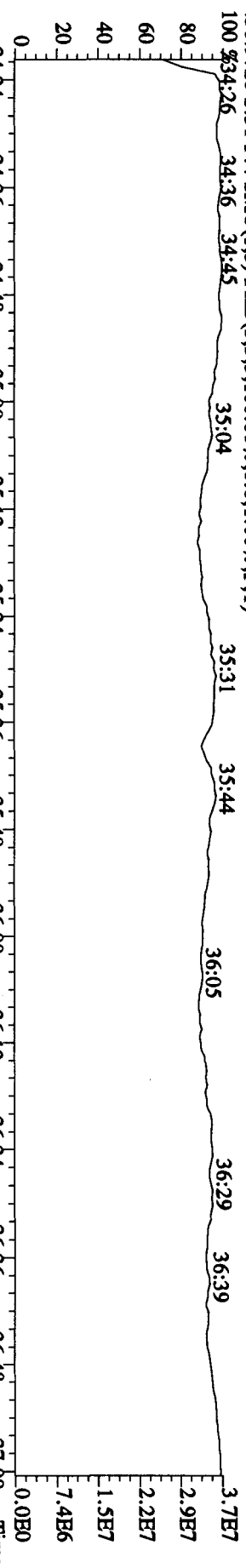


File:28OC104D5 #1-470 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#31 Text:CP1028A :DB-5 CP5M 3732-10 Exp:DIOXINRES
 342.9792 S:31 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100% 23:18 23:41 24:10 25:26 26:03 26:49 27:37 28:13 29:43

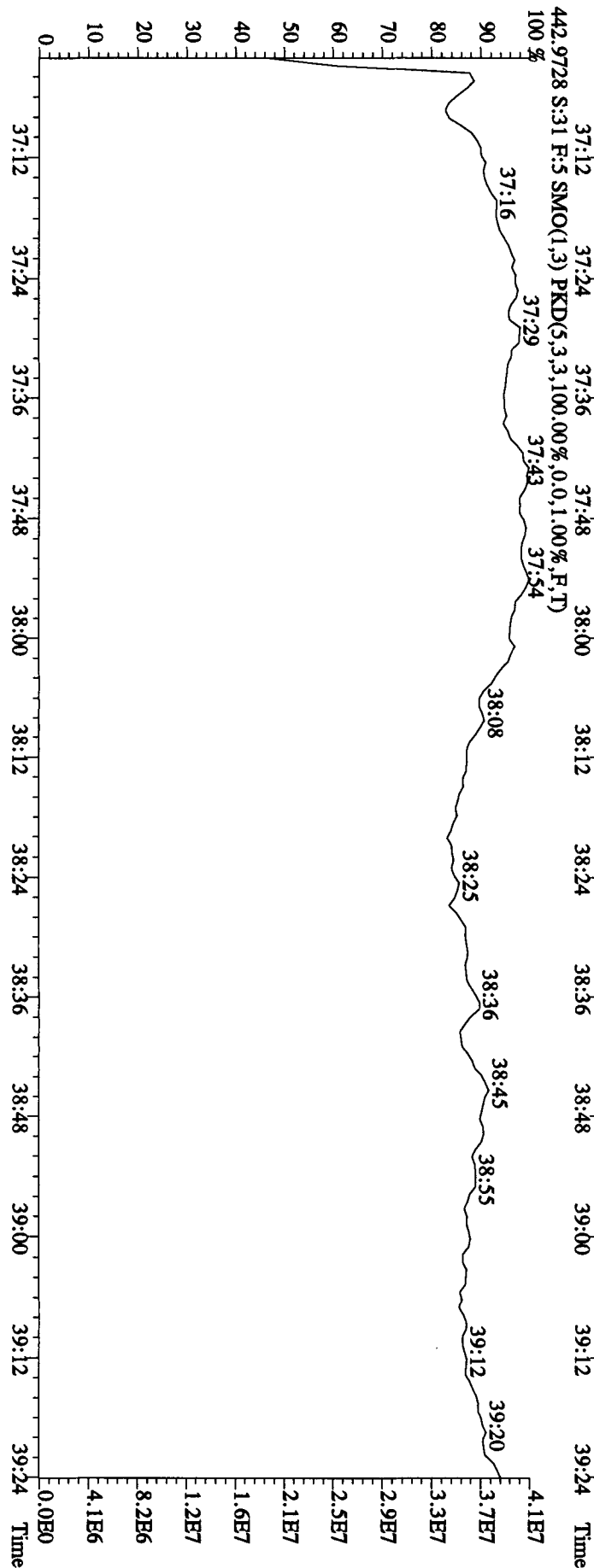
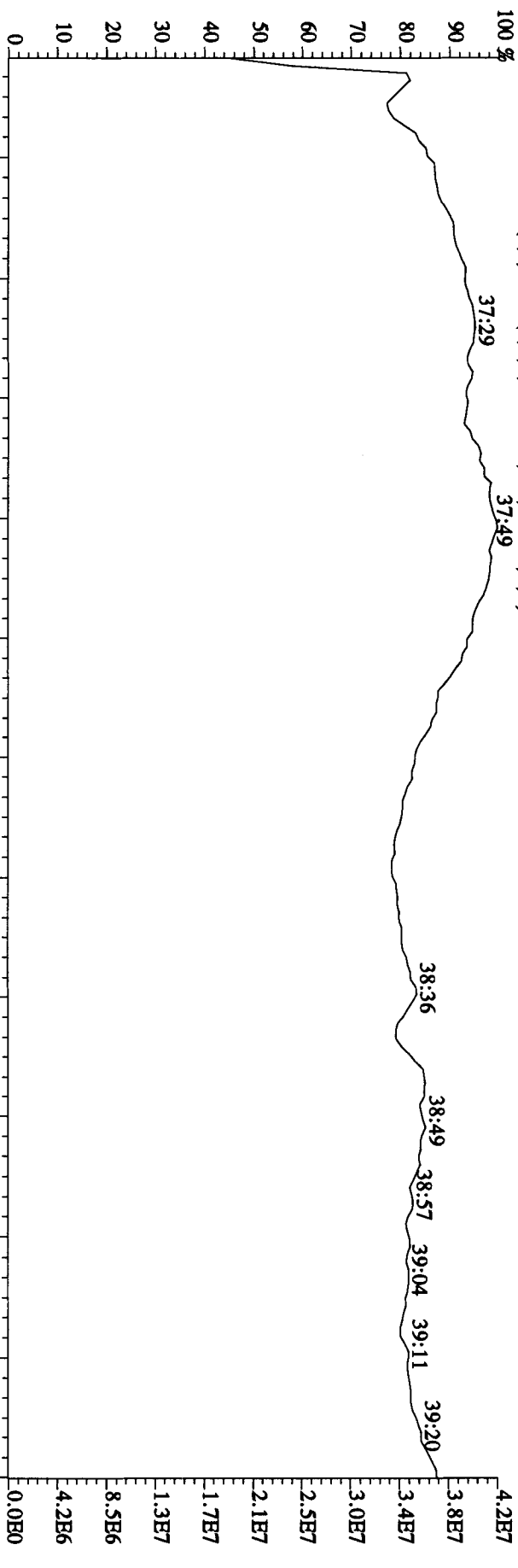




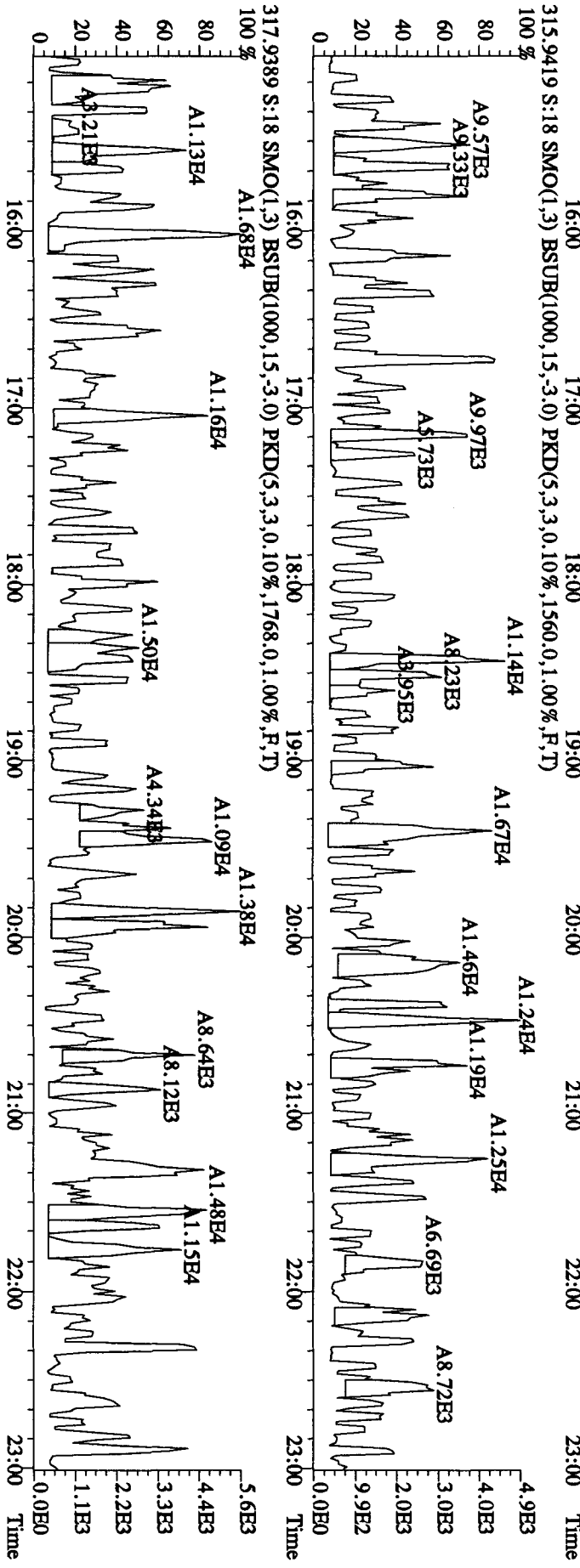
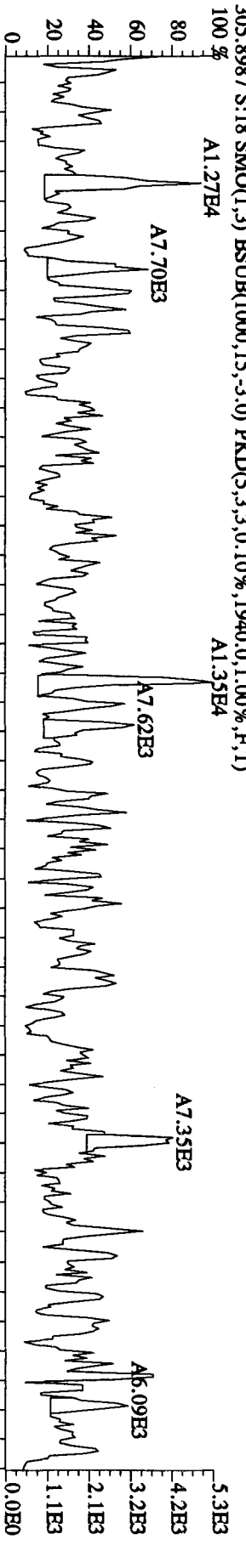
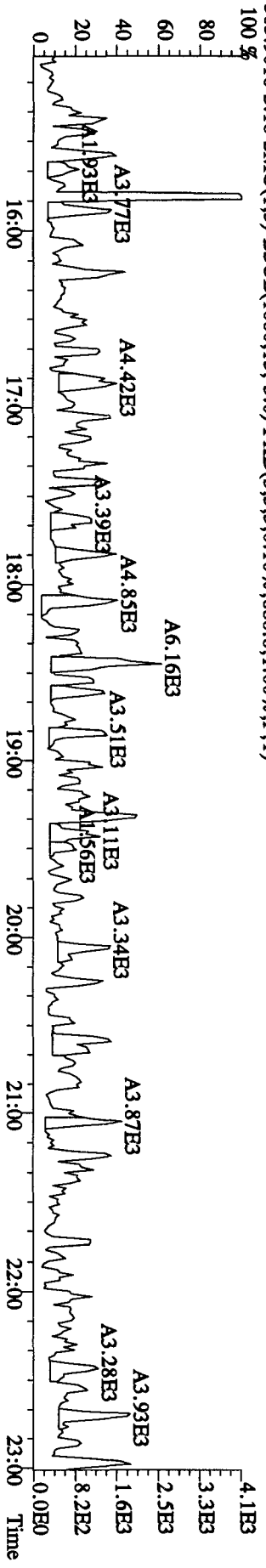
File:280C104D5 #1-201 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 430.9728 S:31 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 34:26 34:36 34:45 35:04 35:31 35:44 36:05 36:29 36:39



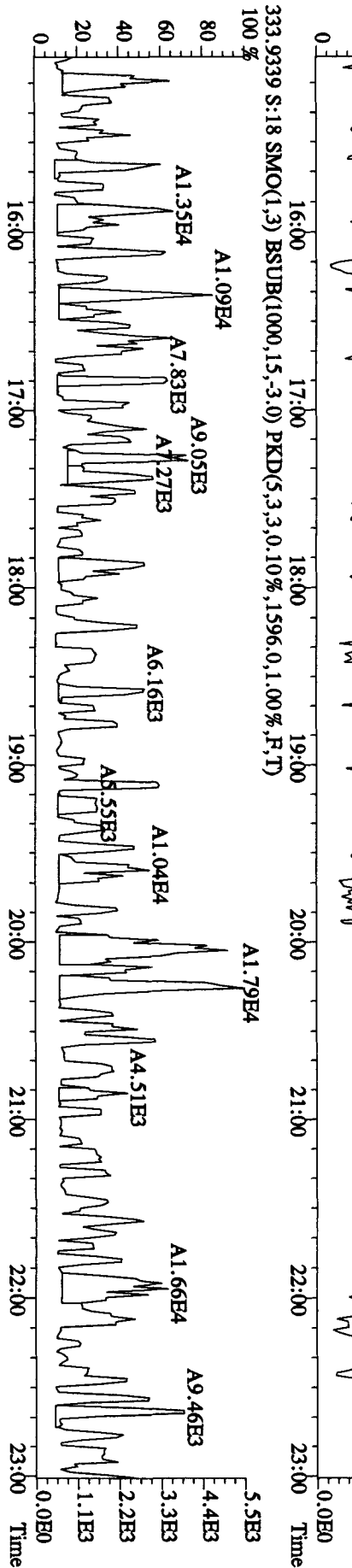
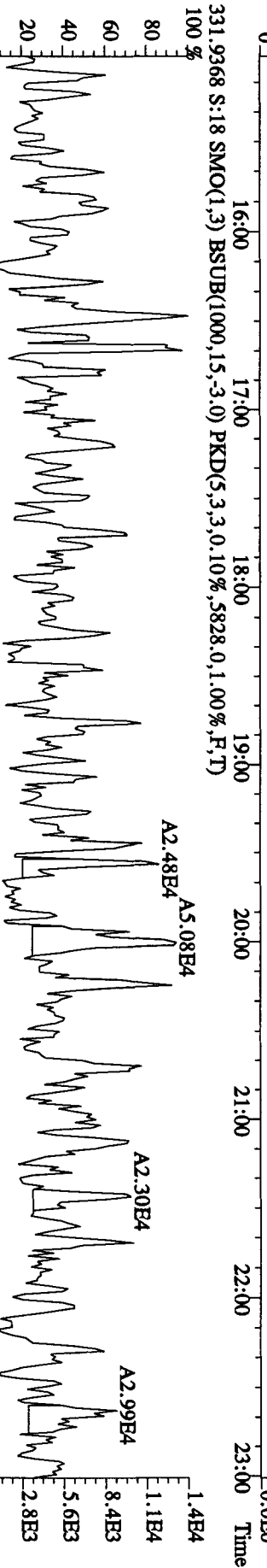
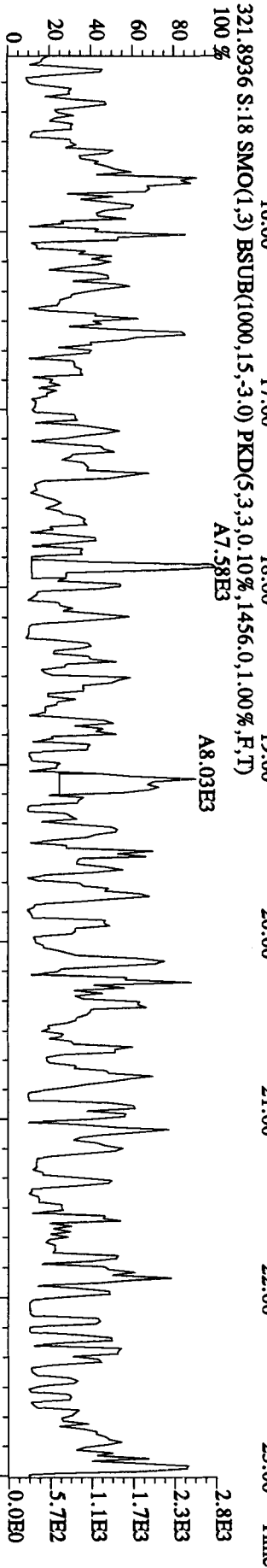
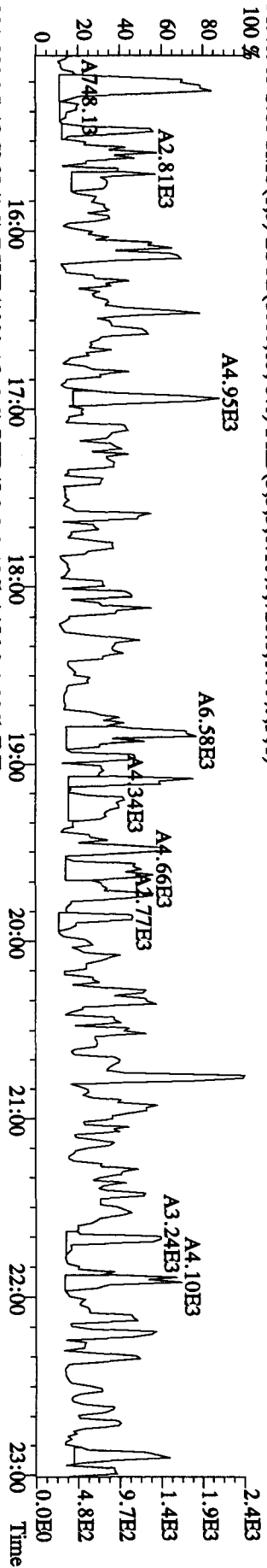
File:28OC104D5 #1-192 Acq:29-OCT-2010 07:54:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#31 Text:CP1028A :DB-5 CPSM 3732-10 Exp:DIOXINRES
 454.9728 S:31 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100 %



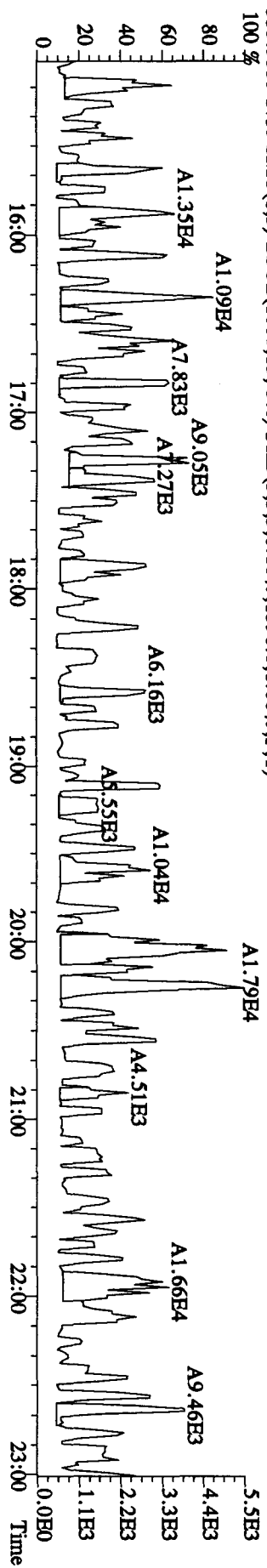
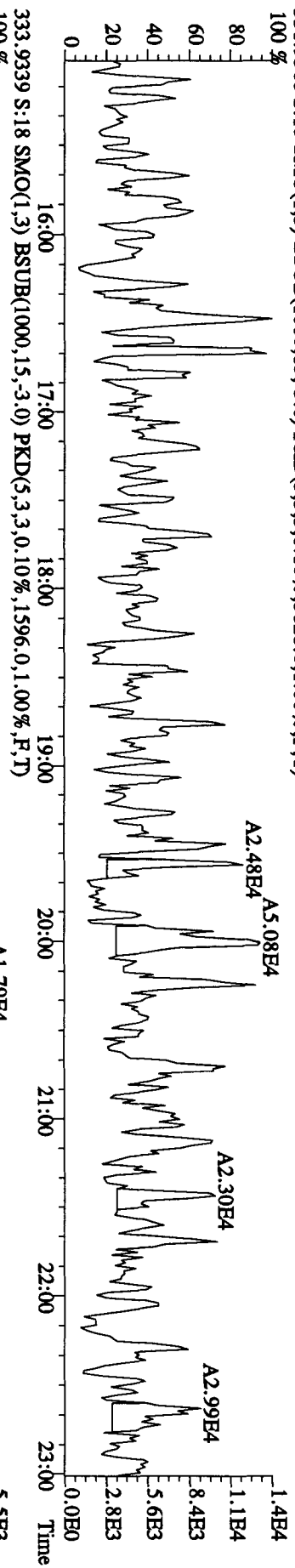
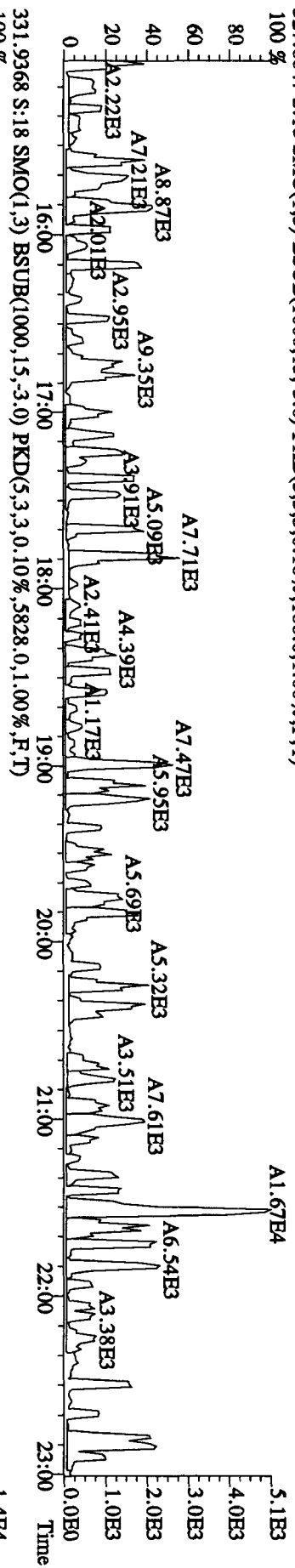
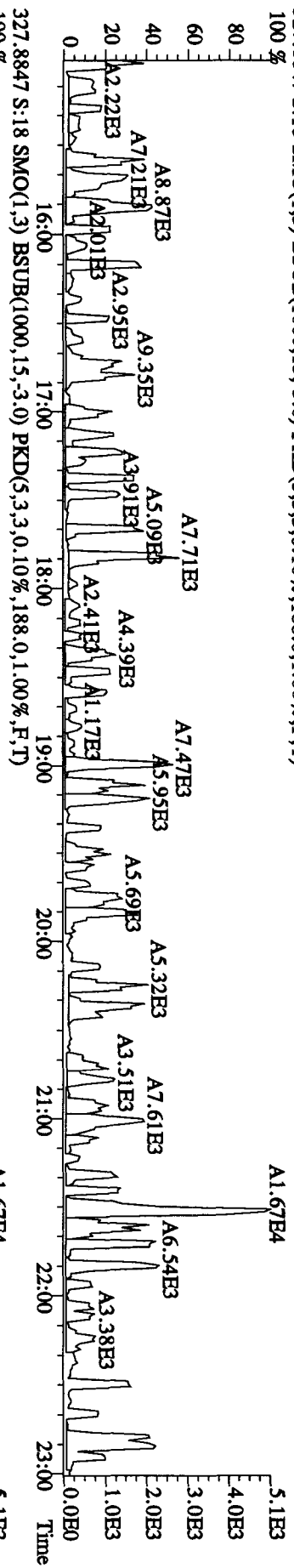
File: 280C104D5 #1-530 Acq: 28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text: SB1028 :Solvent Blank C-14 Exp: DIOXINRES
 303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940,0.1,00%,F,T)



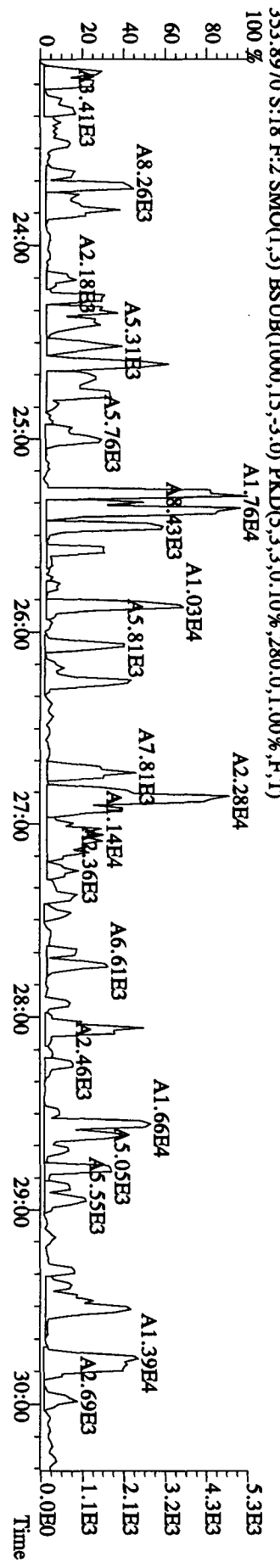
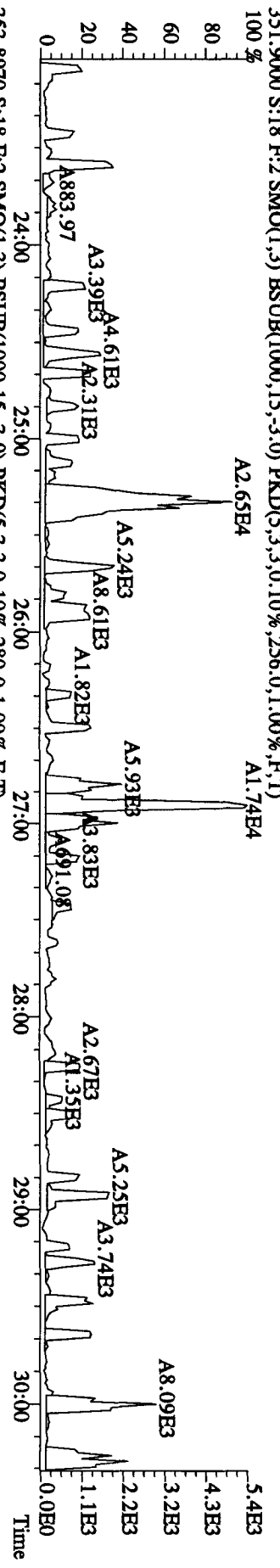
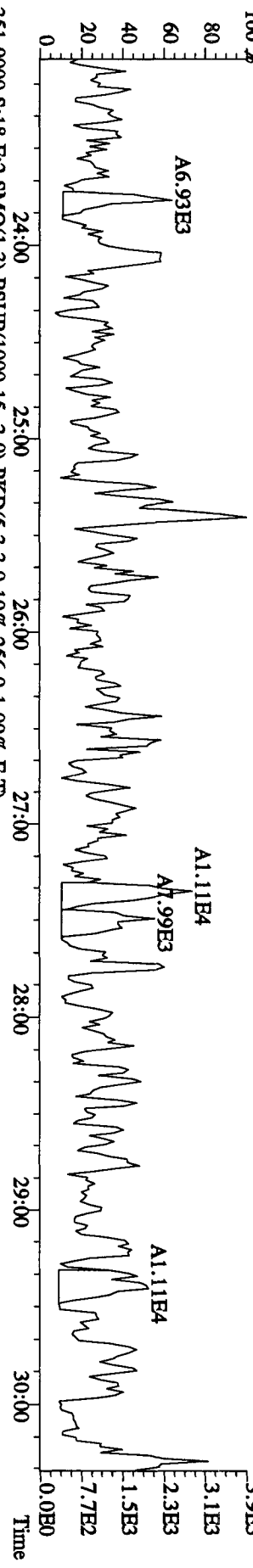
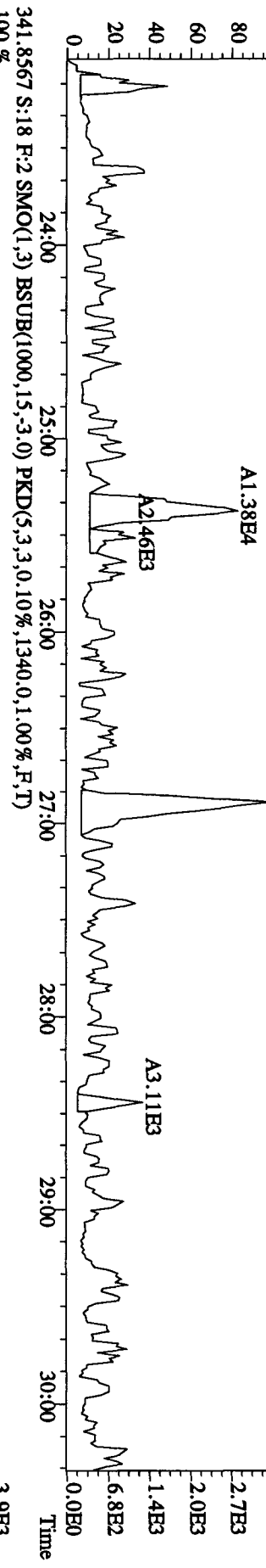
File:28OC104D5 #1-530 Acq:28-OCT-2010 22:14:50 GC EI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1078 :Solvent Blank C-14 Exp:DIOXINRES
 319,8965 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,720,0,1,00%,F,T)
 100 %

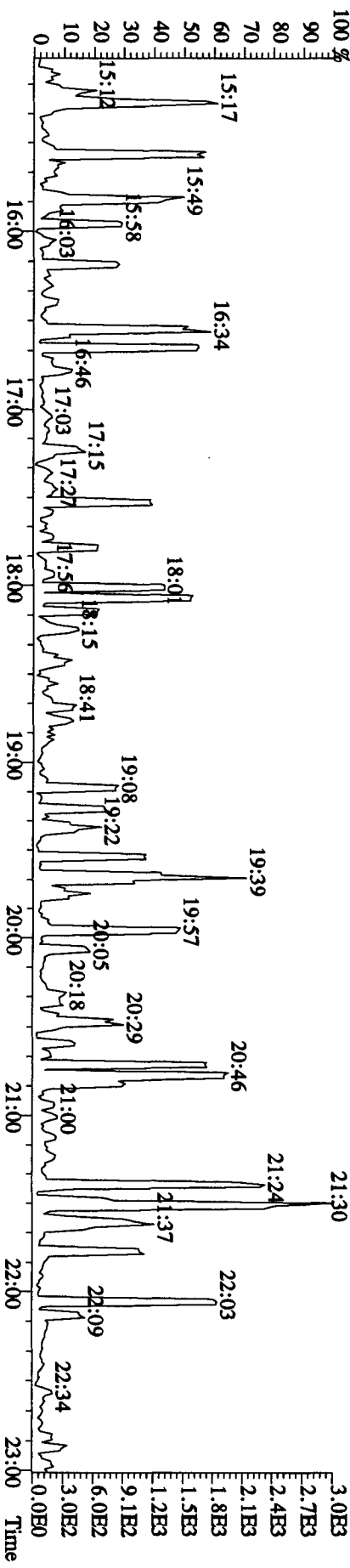
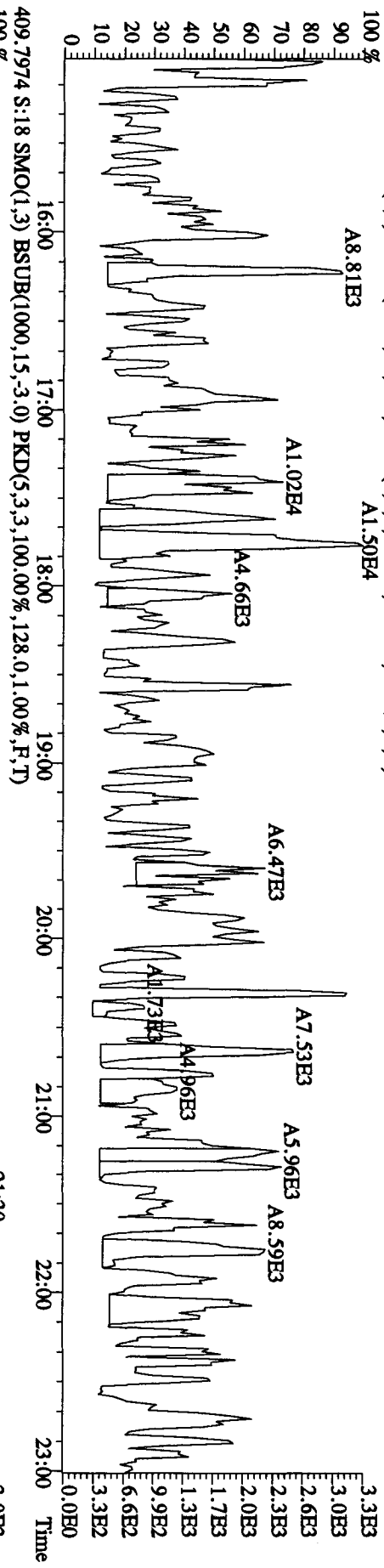
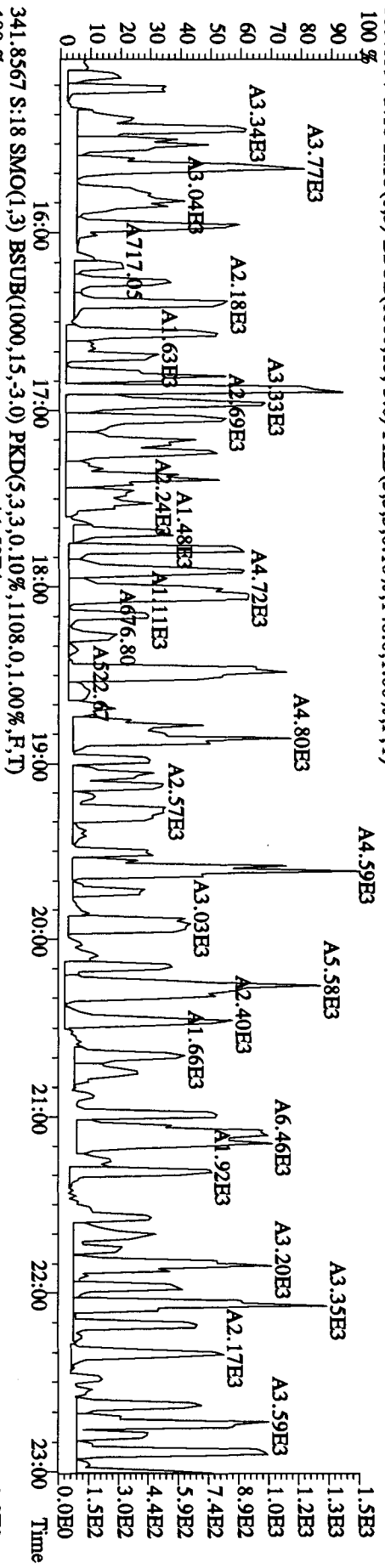


File:280C104D5 #1-530 Acq:28-OCT-2010 22:14:50 GC EI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 327.8847 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)

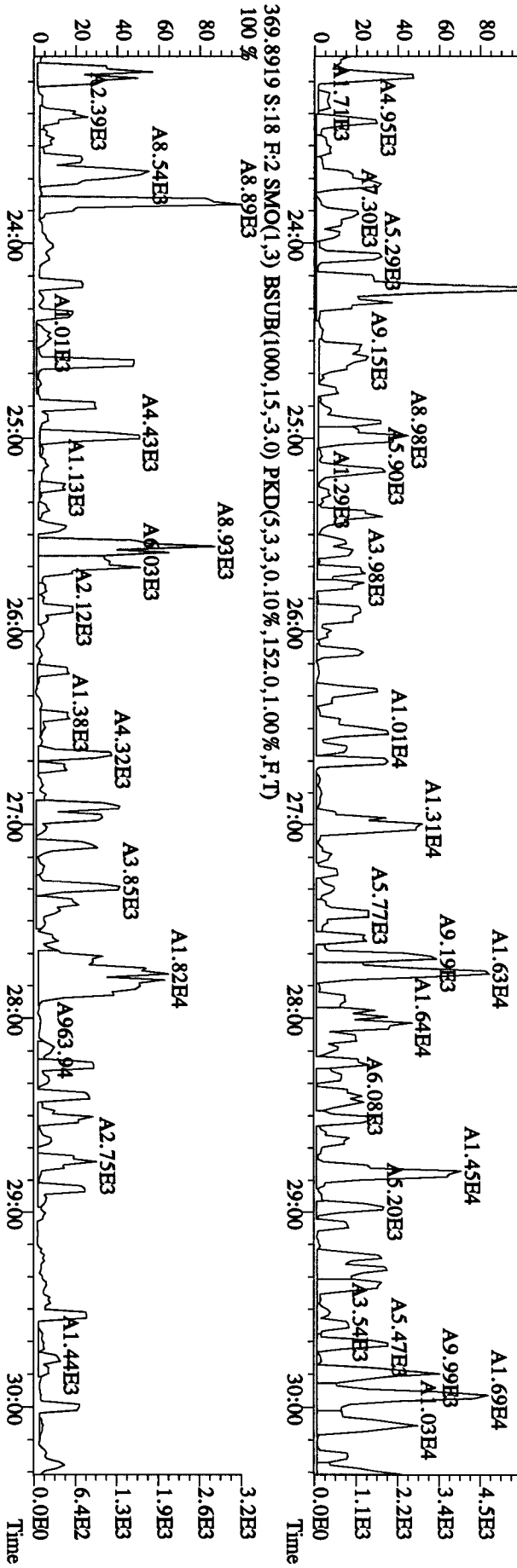
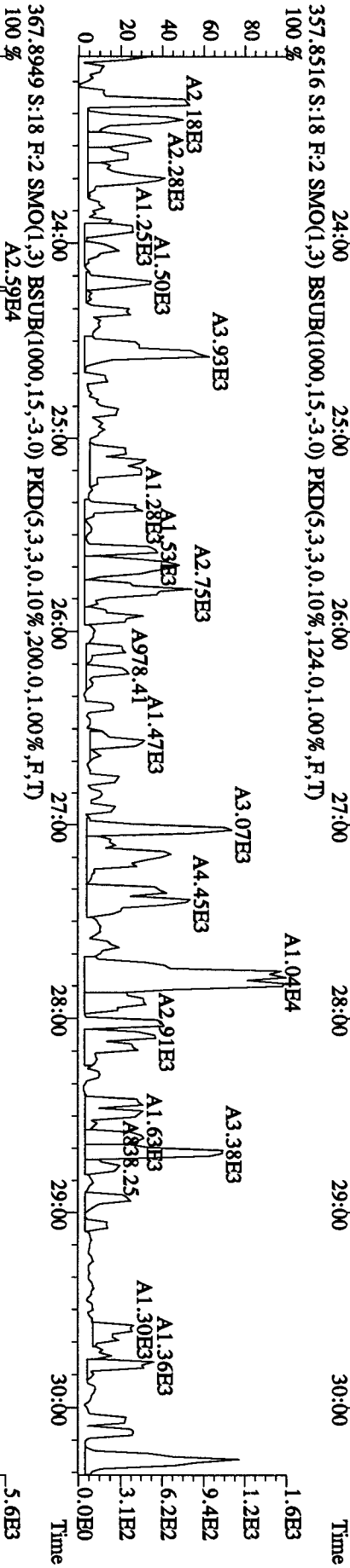
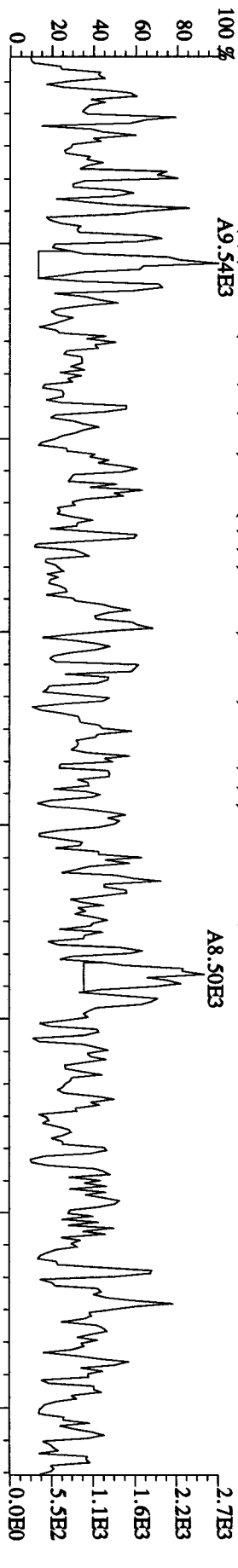


File:28OC104D5 #1-470 Acq:28-OCT-2010 22:14:50 GC EI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 339.8597 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,588.0,1.00%,F,T)
 100 %

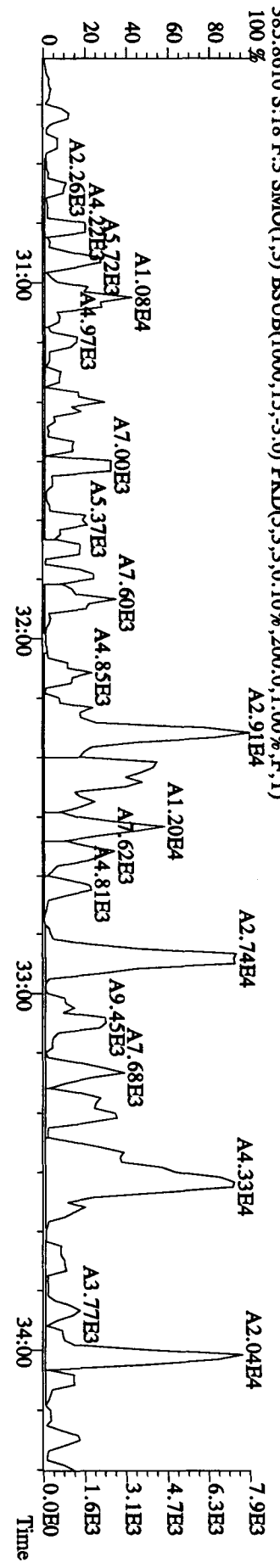
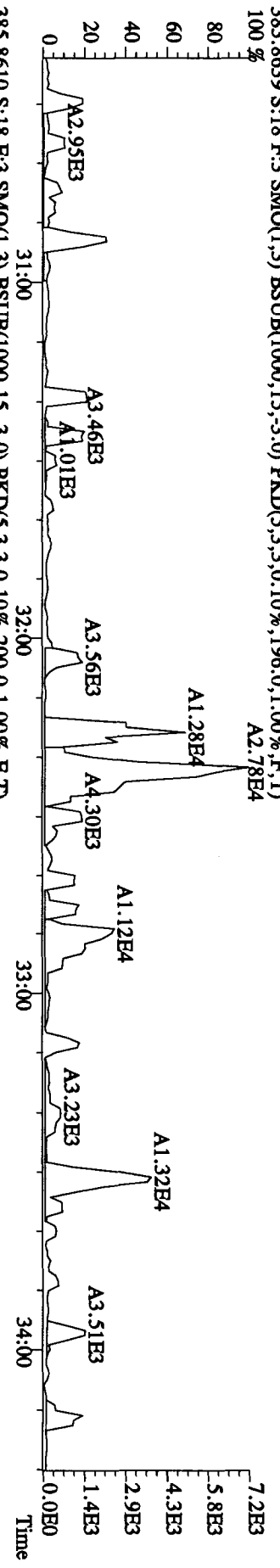
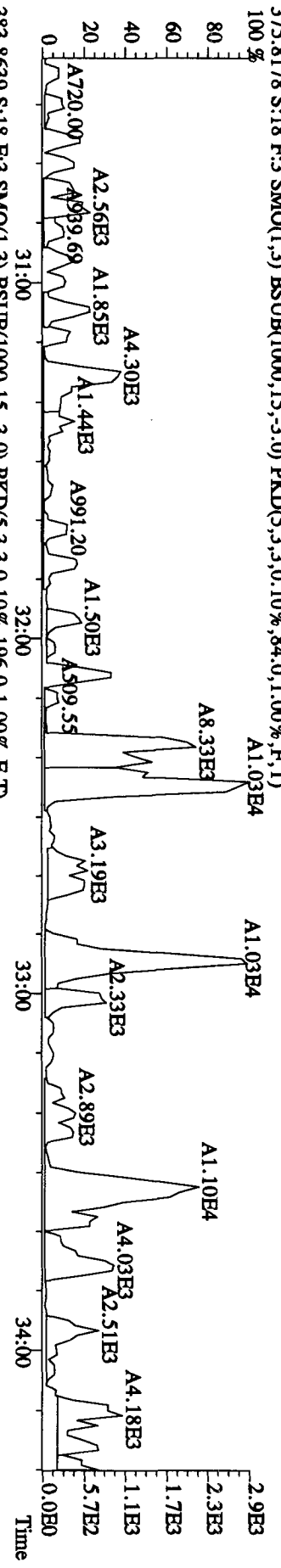
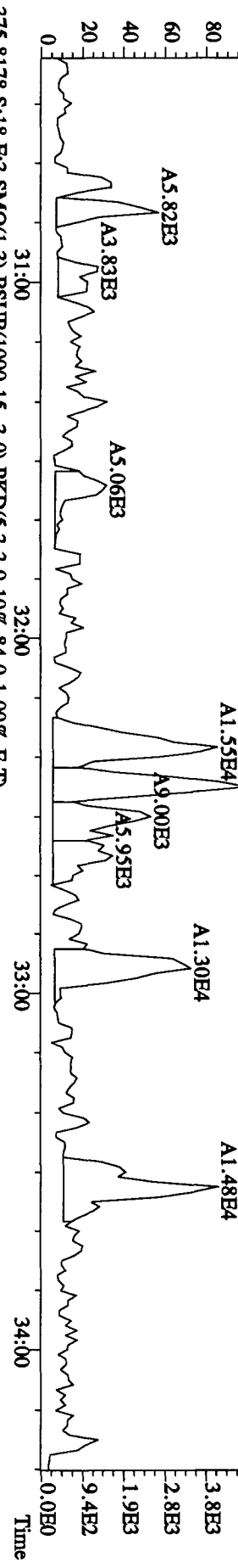




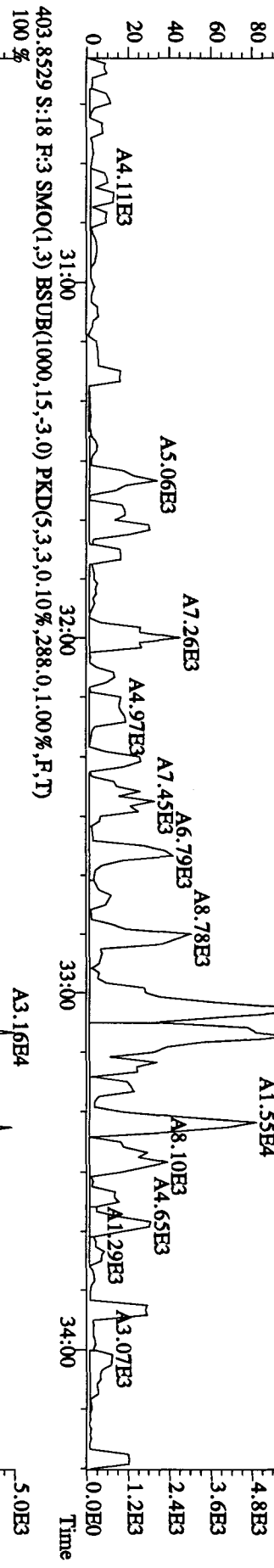
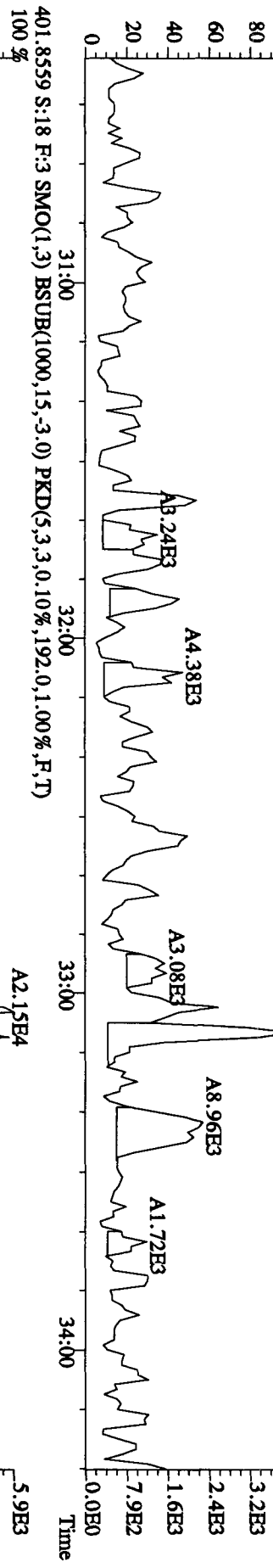
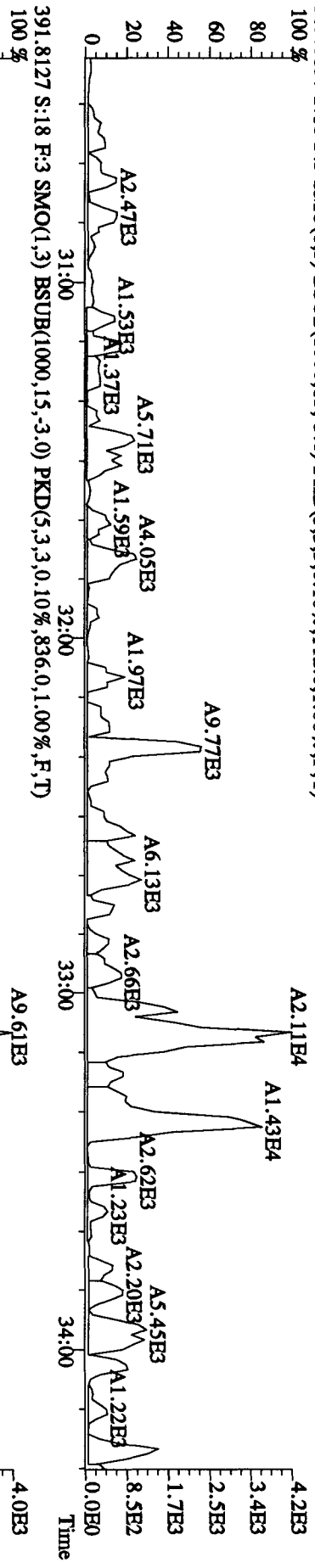
File:28OC104D5 #1-470 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 355.8546 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1172.0,1.00%,F,T)
 100% A9.54E3



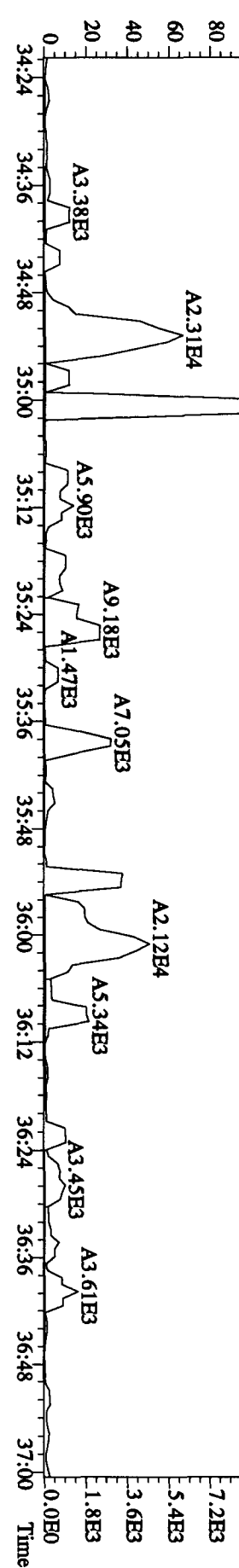
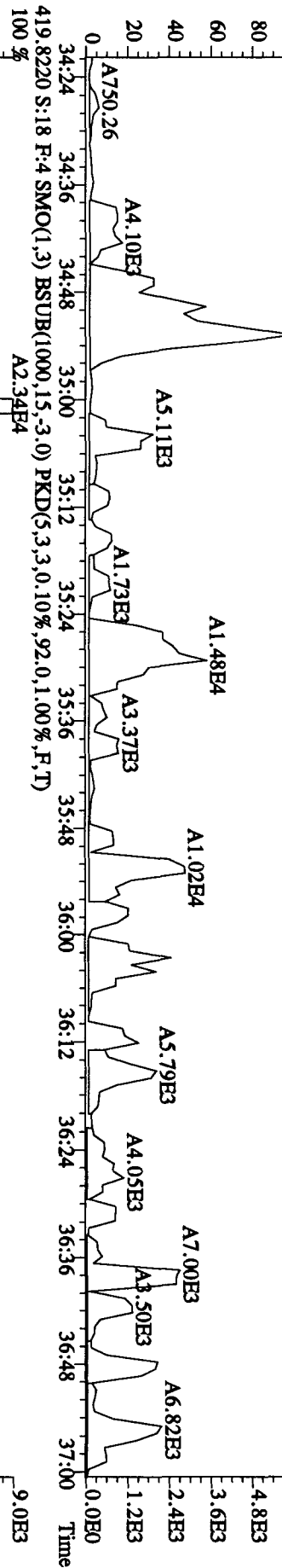
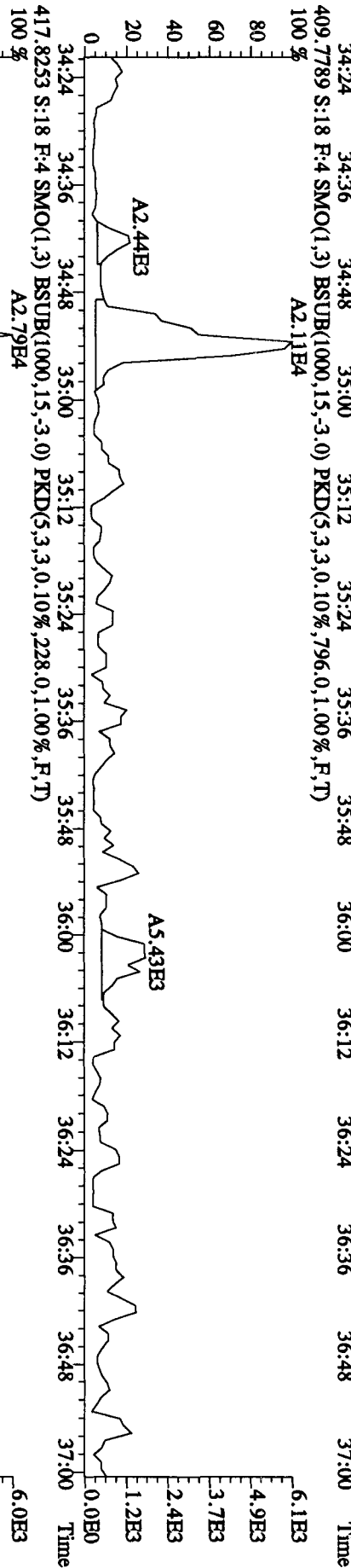
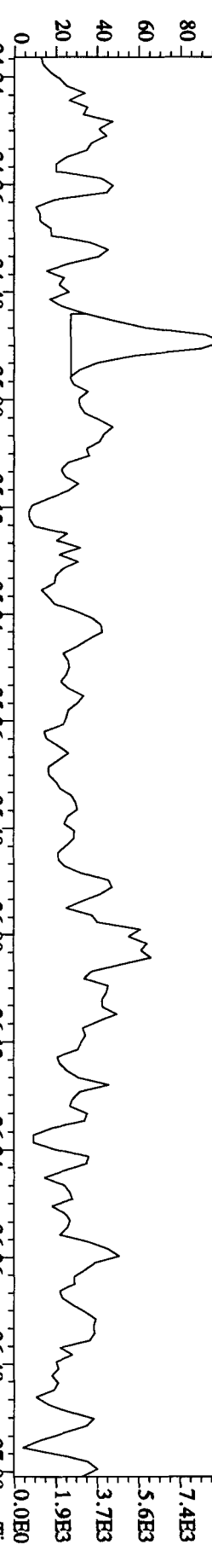
File:280C104D5 #1-286 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 373.8208 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)



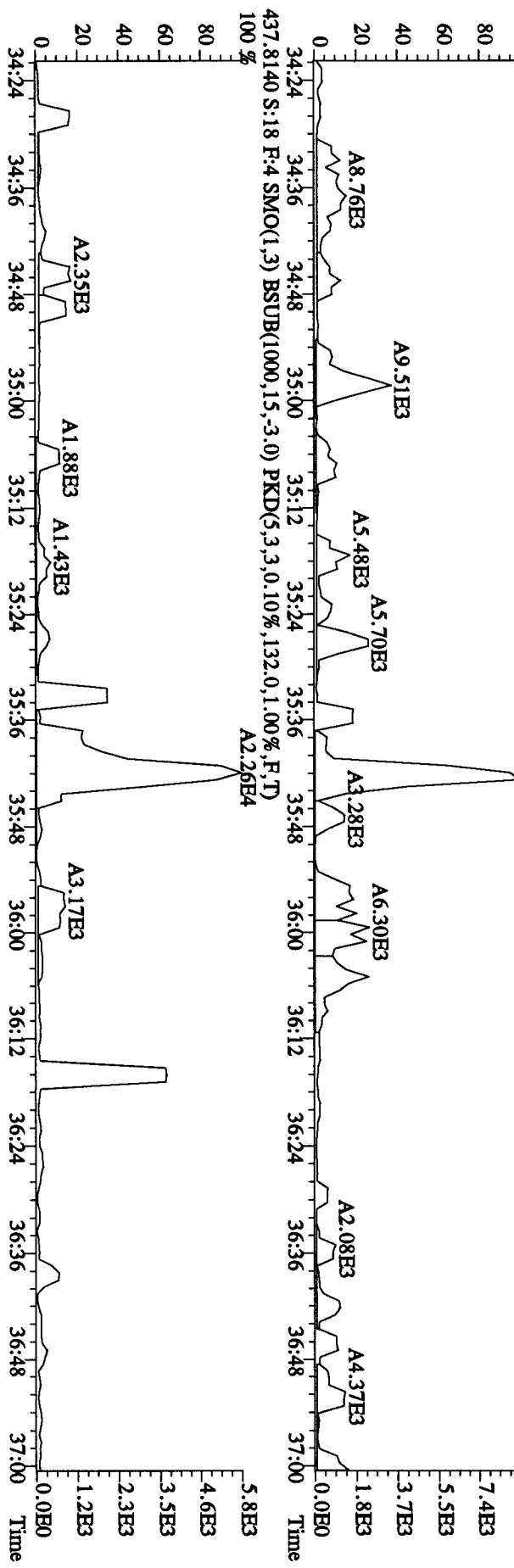
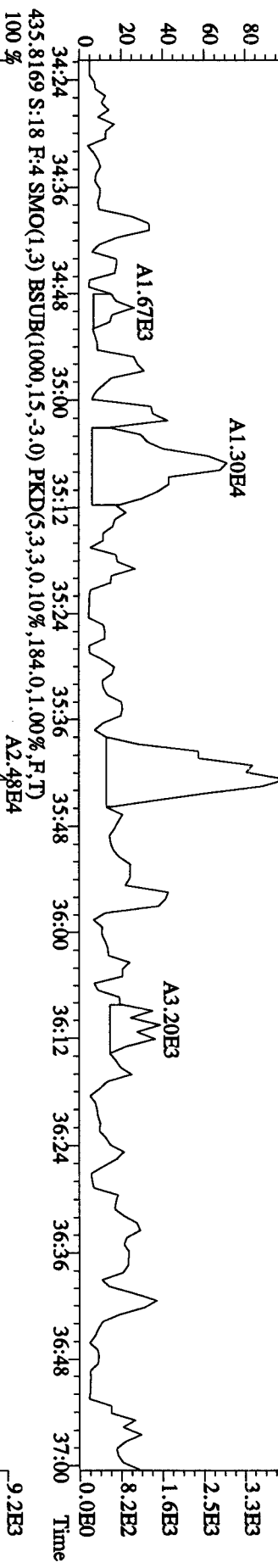
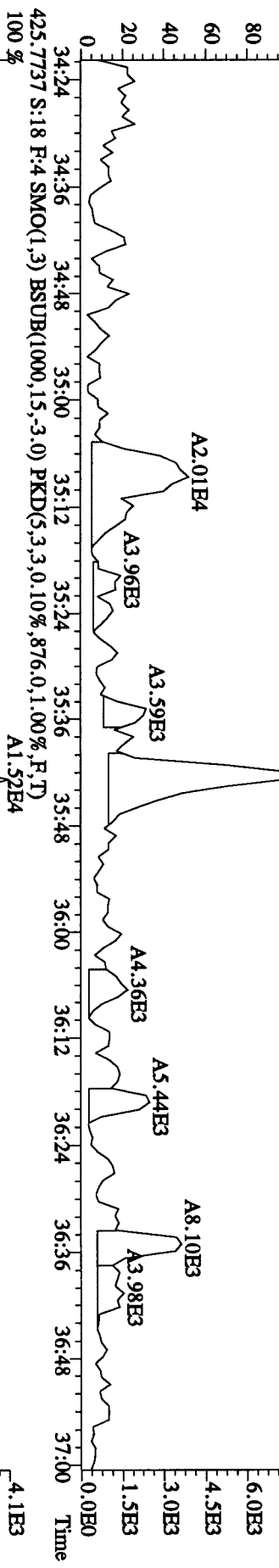
File:28OC104D5 #1-286 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 389.8157 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)



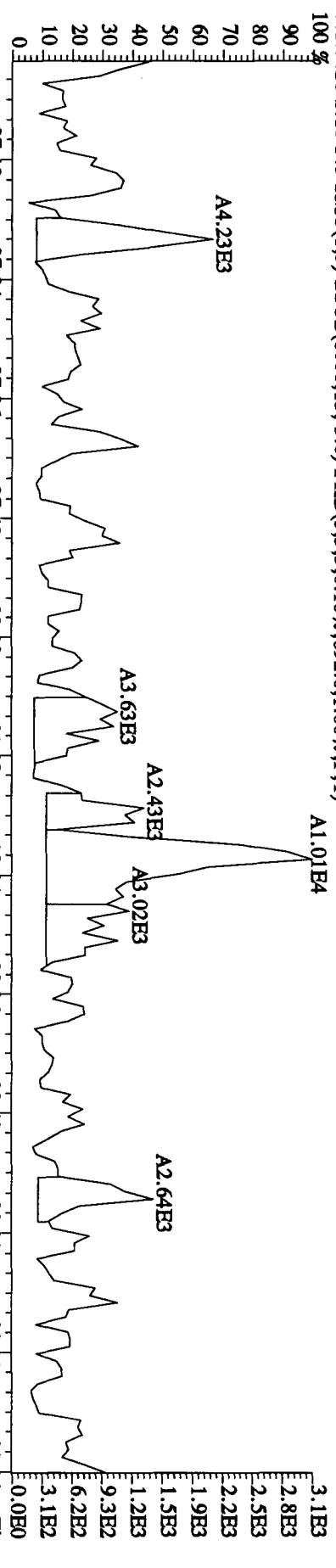
File:280C104D5 #1-201 Acq:28-OCT-2010 22:14:50 GC:EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 407.7818 S:18 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3356,0,1.00%,F,T)
 100 %



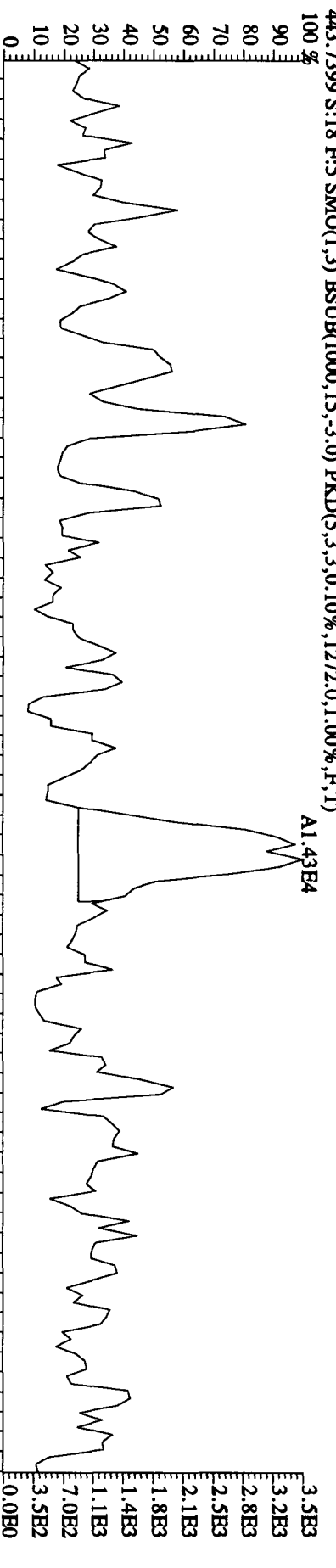
File:28OC104D5 #1-201 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:SBI028 :Solvent Blank C-14 Exp:DIOXINRES
 423.7766 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)
 100 %



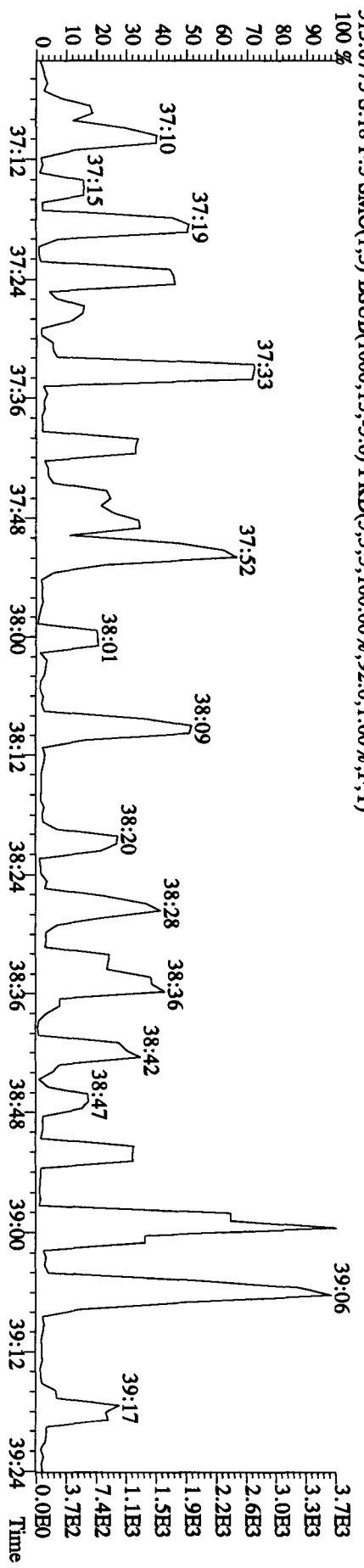
File:28OC104D5 #1-192 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#18 Text:SBI028 :Solvent Blank C-14 Exp:DIOXINRES
 441.7428 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,692.0,1.00%,F,T)



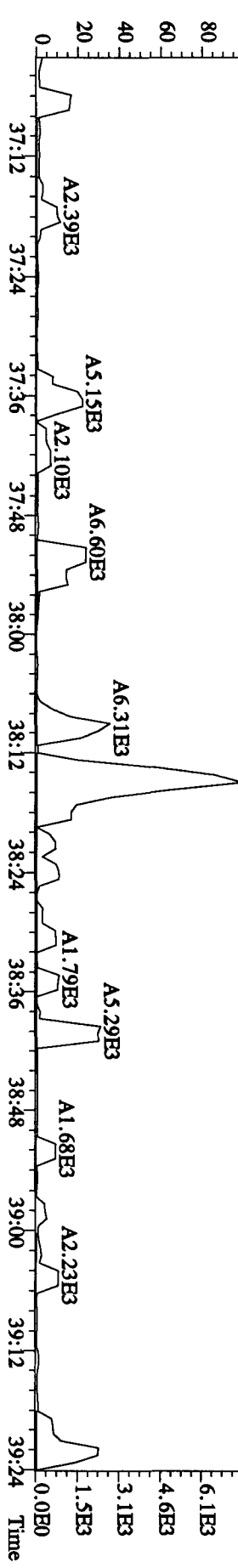
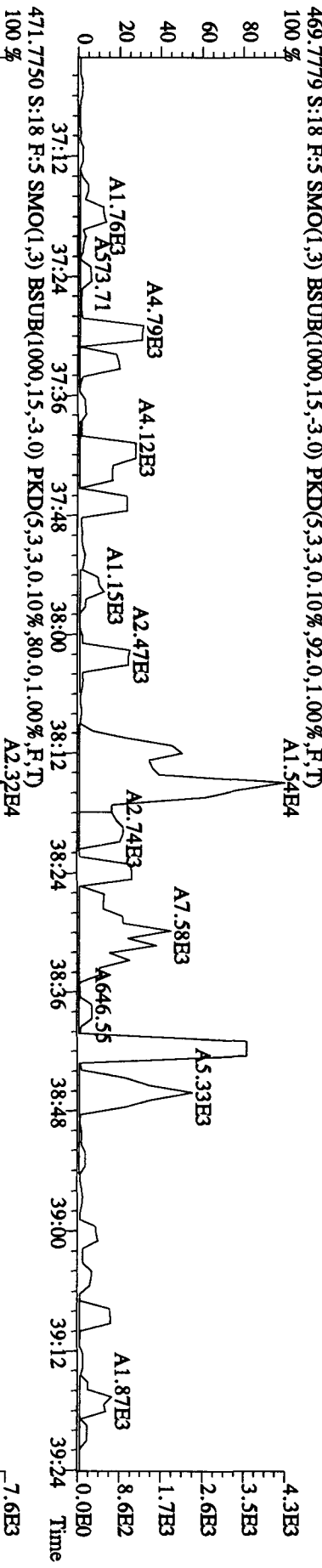
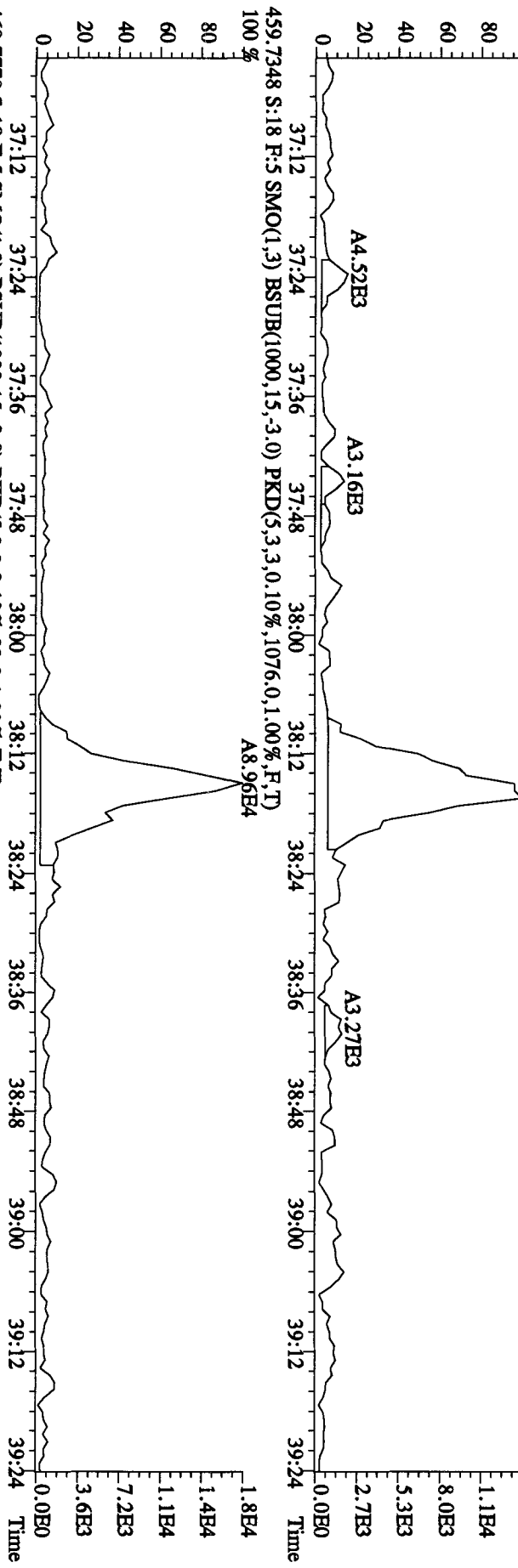
443.7399 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1272.0,1.00%,F,T)



513.6775 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,92.0,1.00%,F,T)

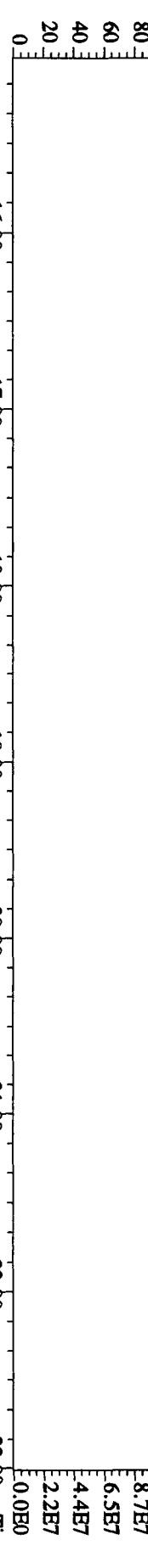


File:28OC104D5 #1-192 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 457.7377 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860.0,1.00%,F,T)
 A7.19E4

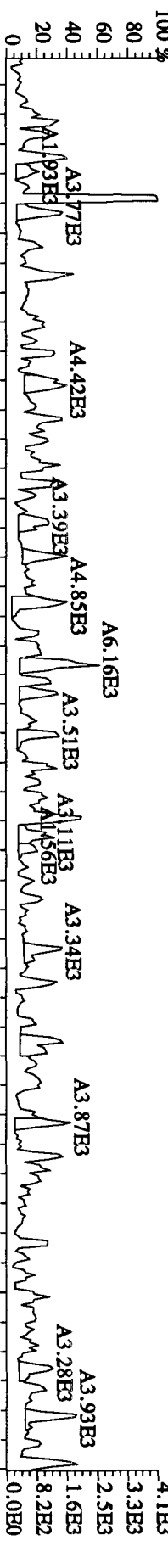


Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES

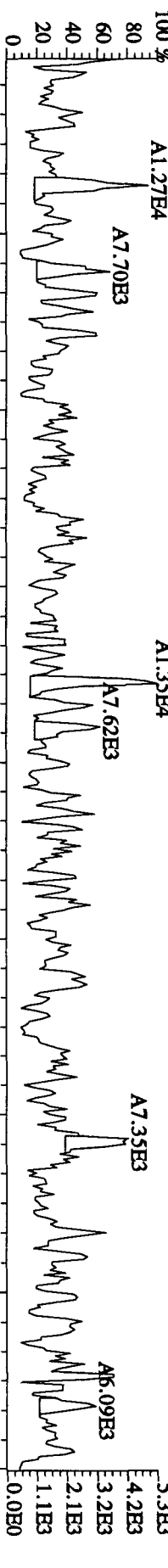
292.9825 S:18 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



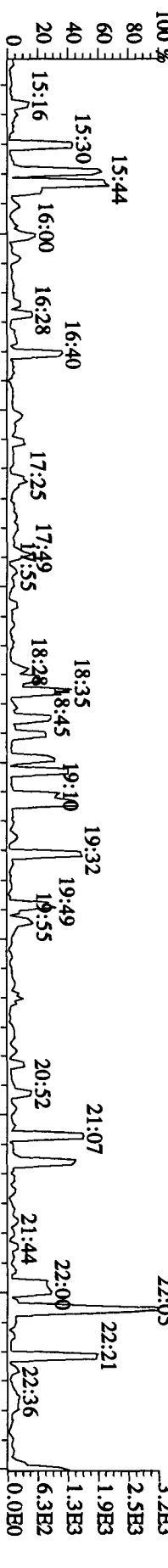
303.9016 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,680,0,1.00%,F,T)



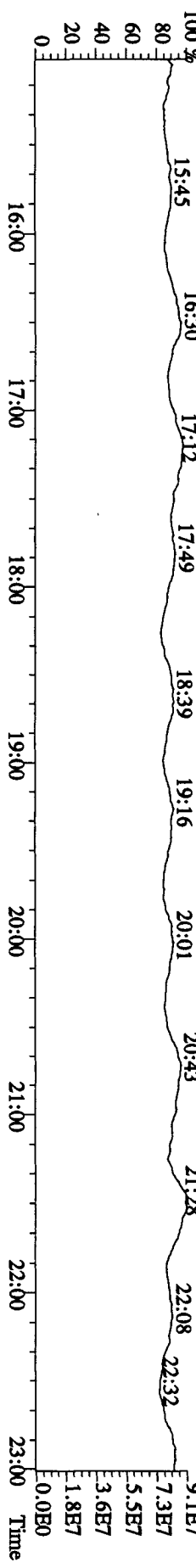
305.8987 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1940,0,1.00%,F,T)



375.8364 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,140,0,1.00%,F,T)



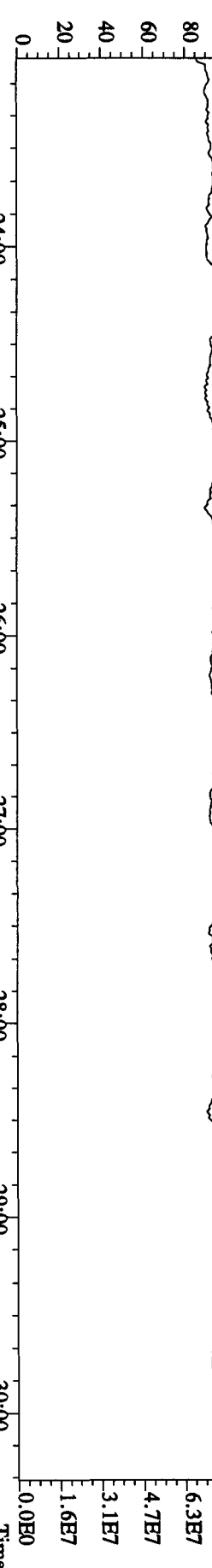
330.9792 S:18 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



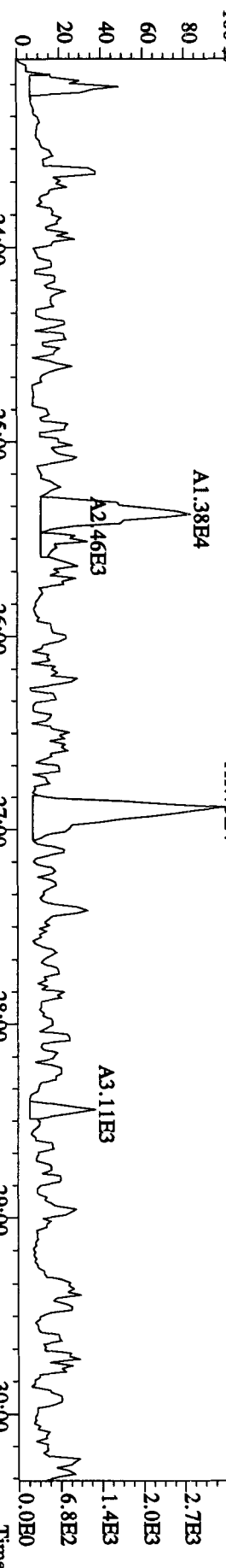
File: 28OC104D5 #1-470 Acq: 28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE

Sample#18 Text: SB1028 : Solvent Blank C-14 Exp: DIOXINRES

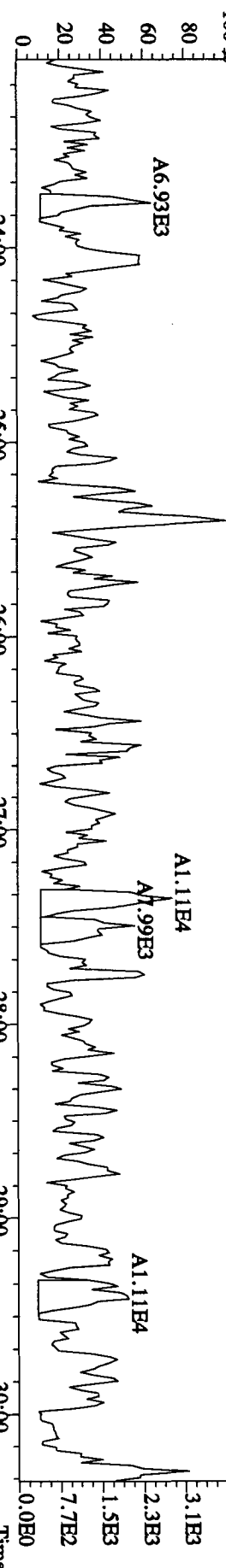
342.9792 S:18 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



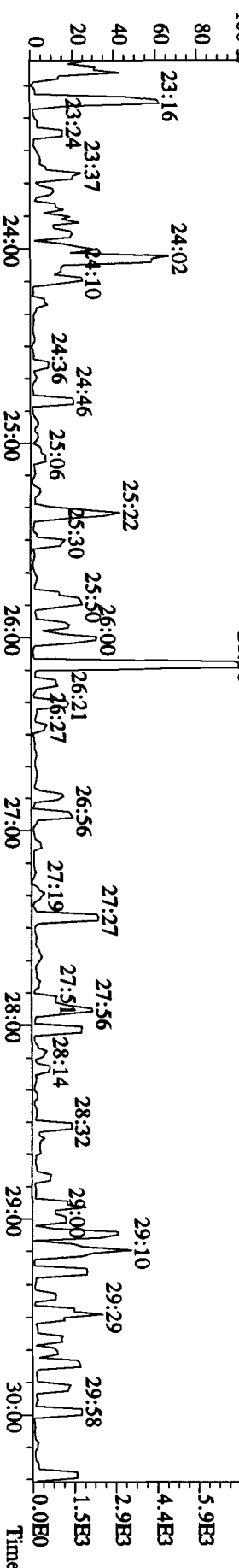
339.8597 S:18 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,588.0,1.00%,F,T)

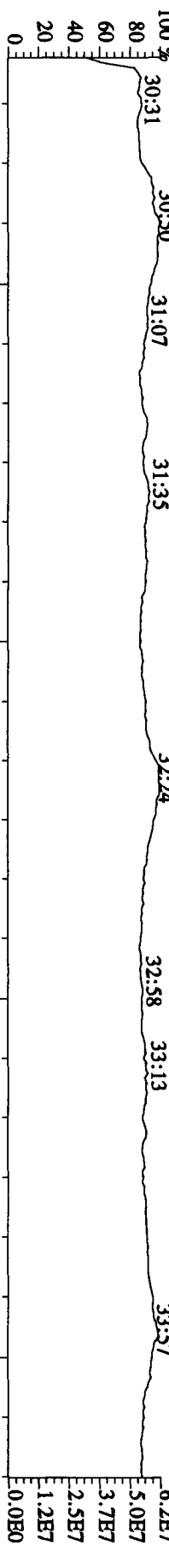
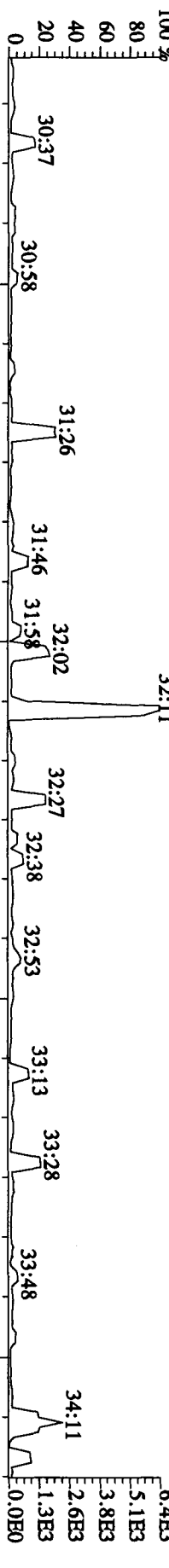
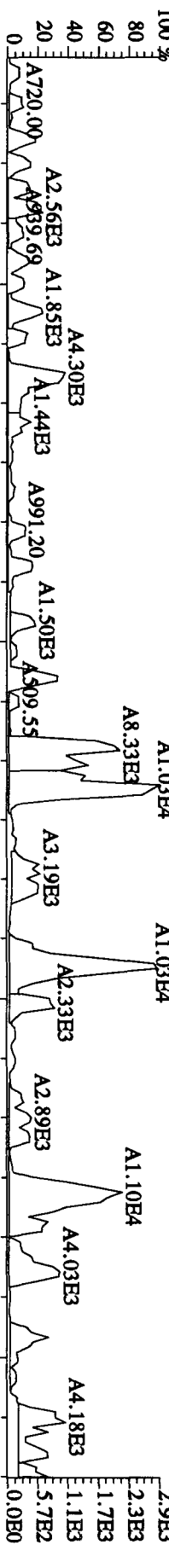
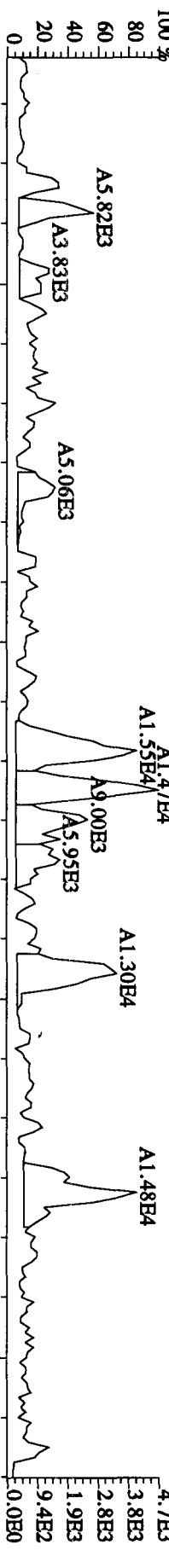
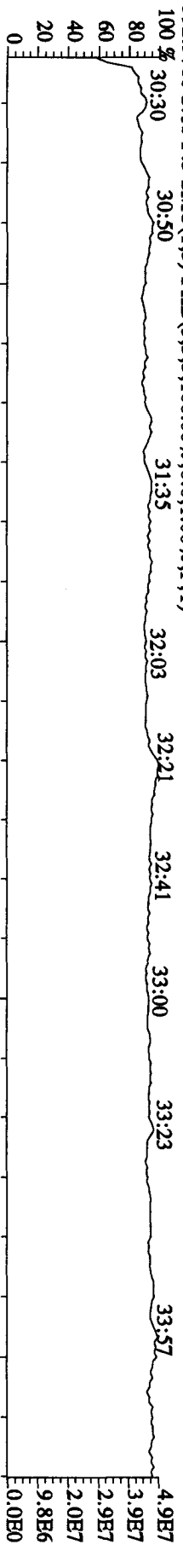


341.8567 S:18 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1340.0,1.00%,F,T)

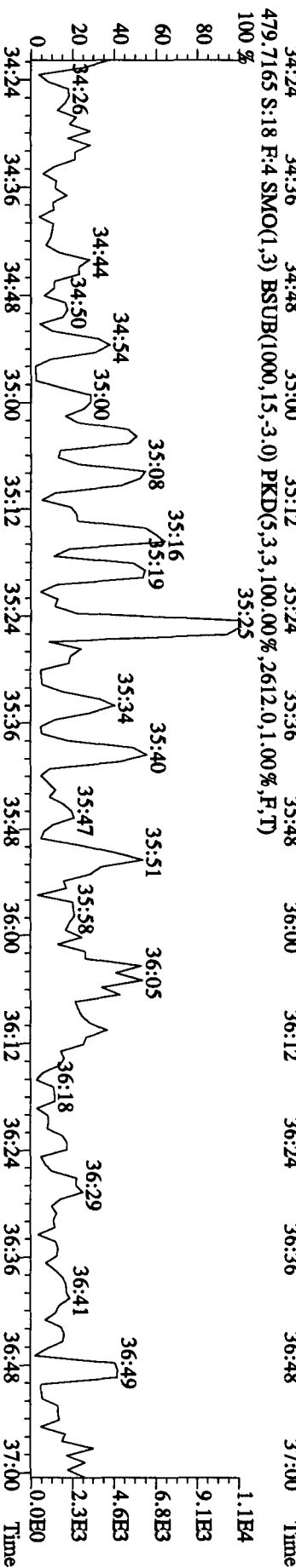
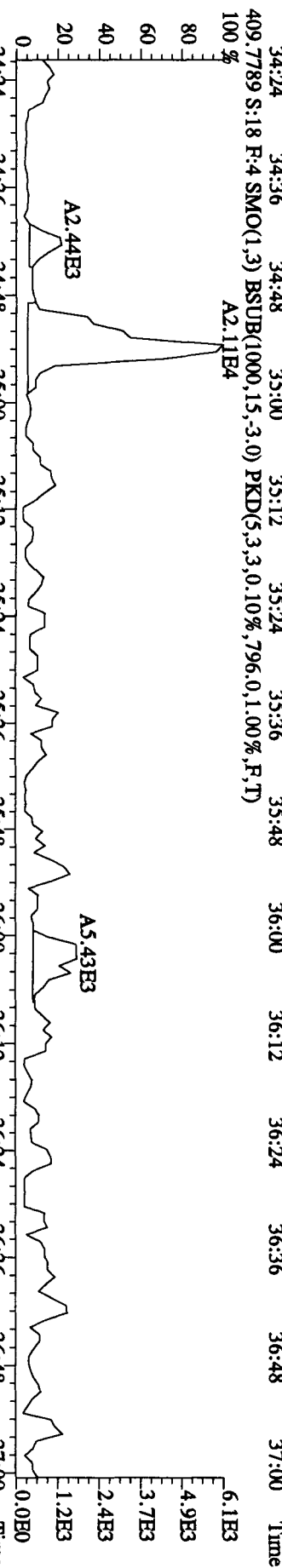
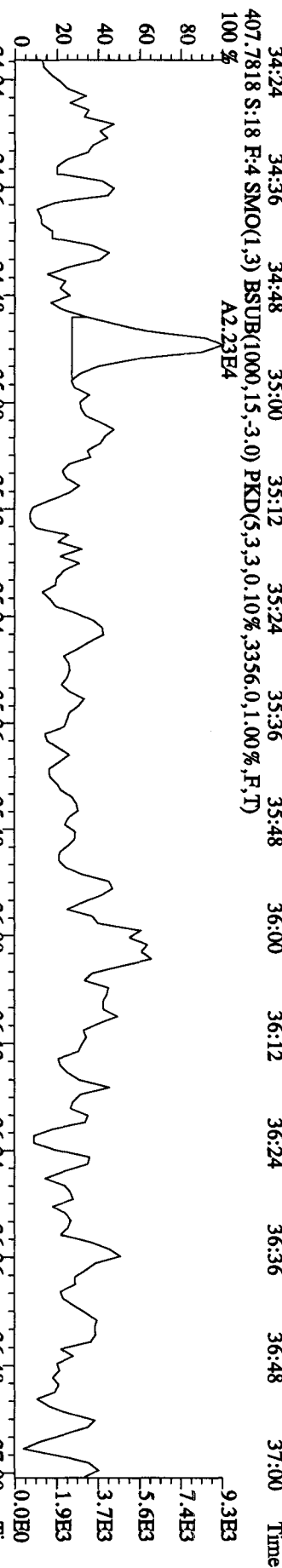
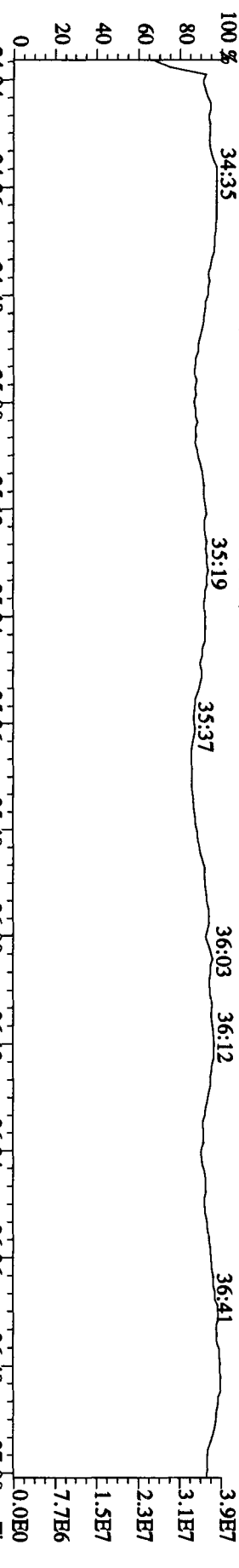


409.7974 S:18 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,152.0,1.00%,F,T)

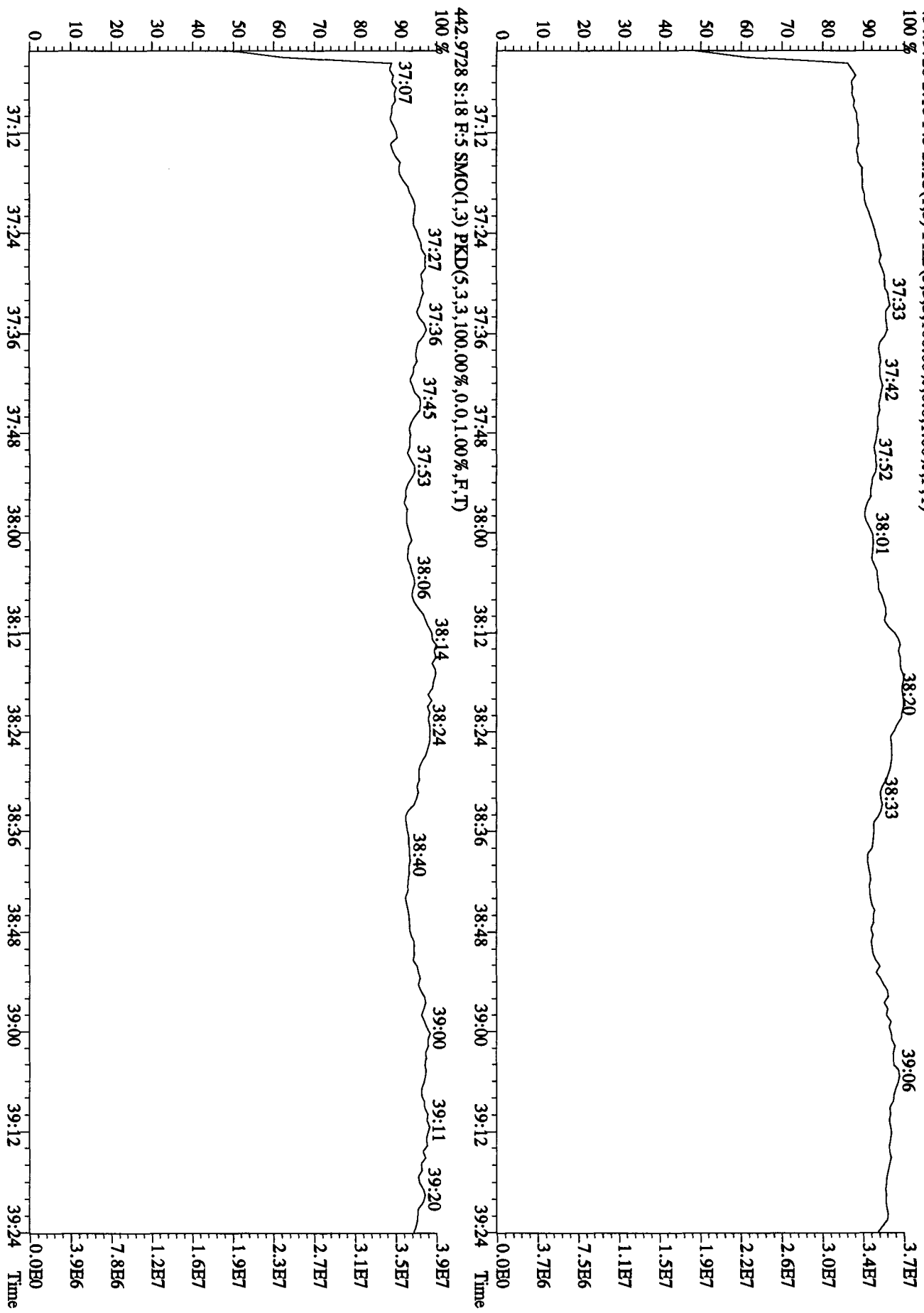




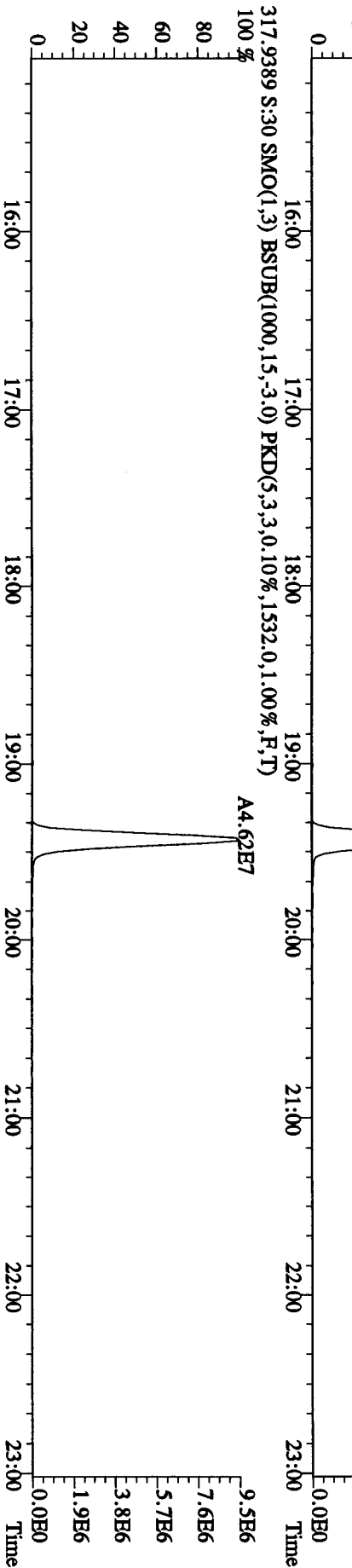
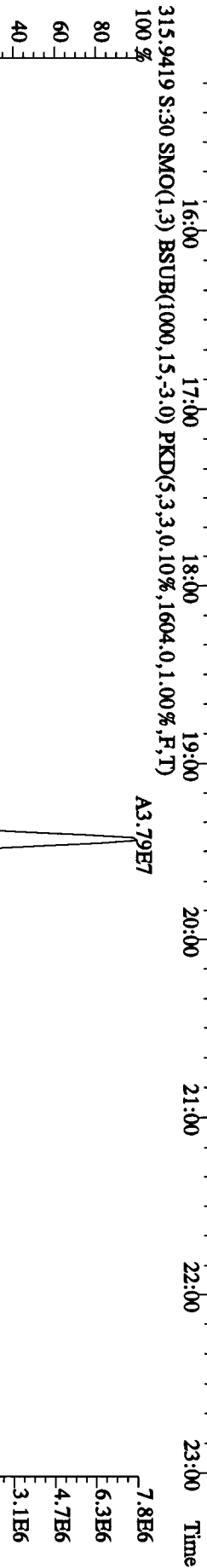
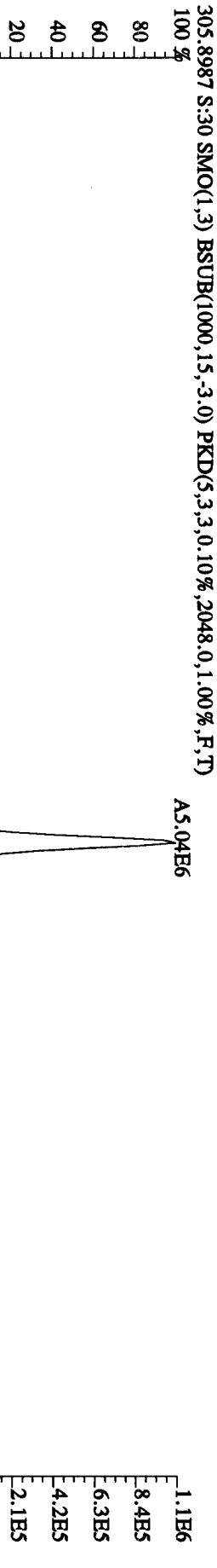
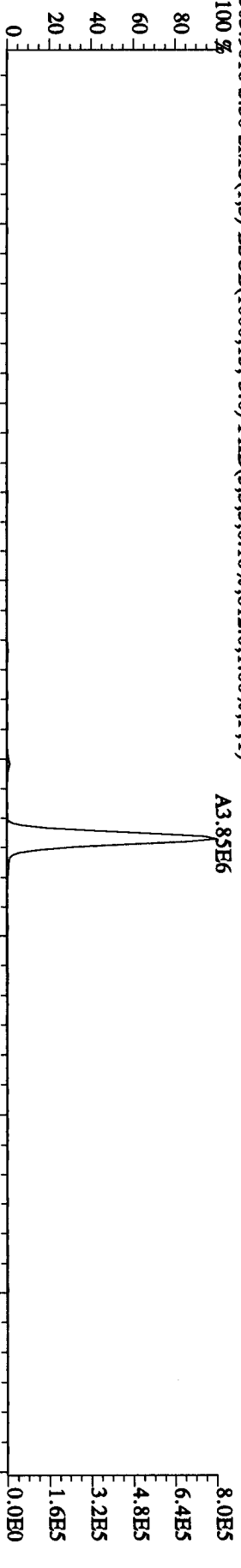
File:28OC104D5 #1-201 Acq:28-OCT-2010 22:14:50 GC EI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 430.9728 S:18 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



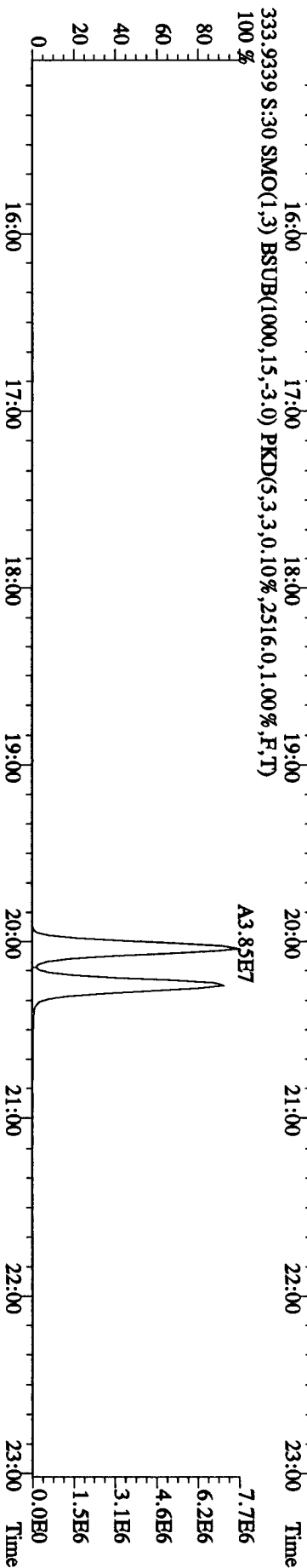
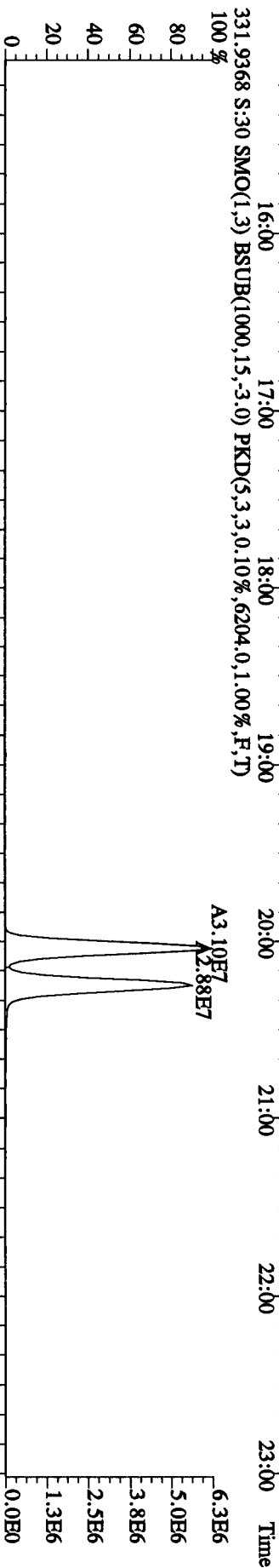
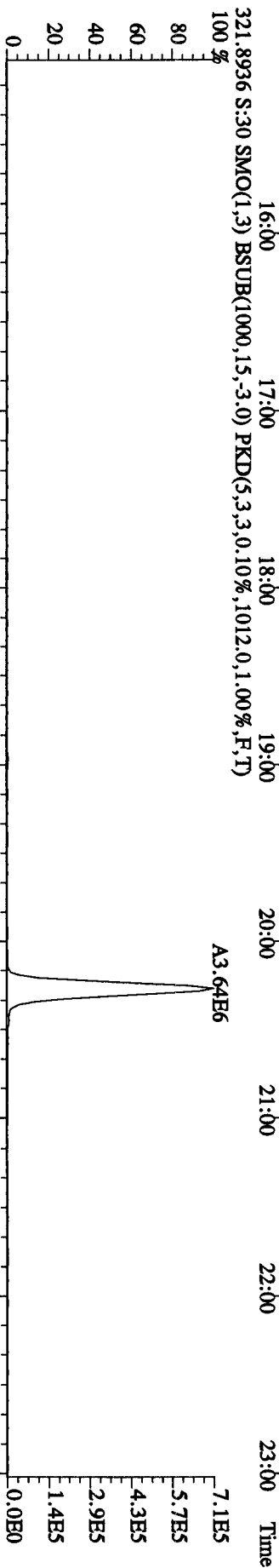
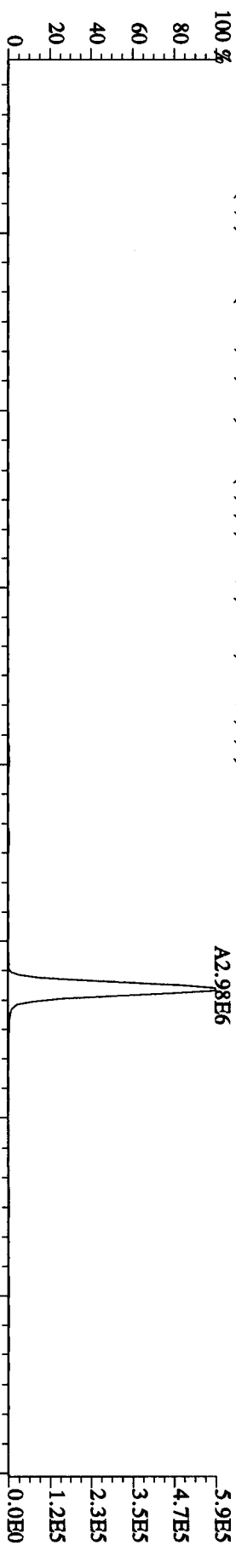
File:28OC104D5 #1-192 Acq:28-OCT-2010 22:14:50 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:SB1028 :Solvent Blank C-14 Exp:DIOXINRES
 454.9728 S:18 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



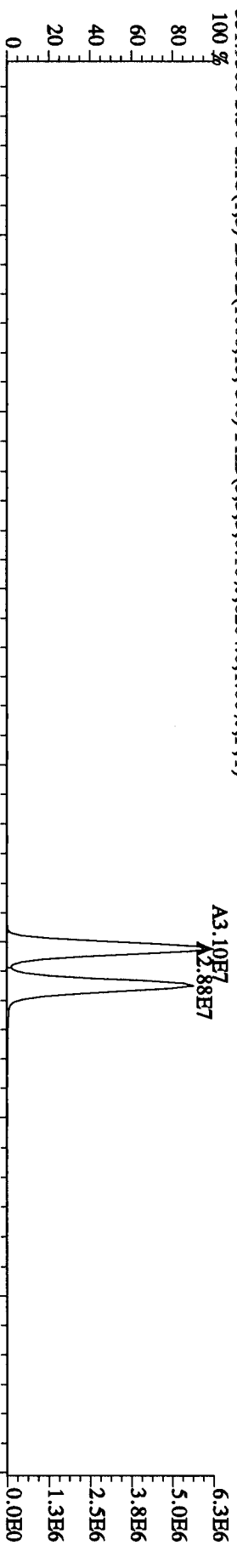
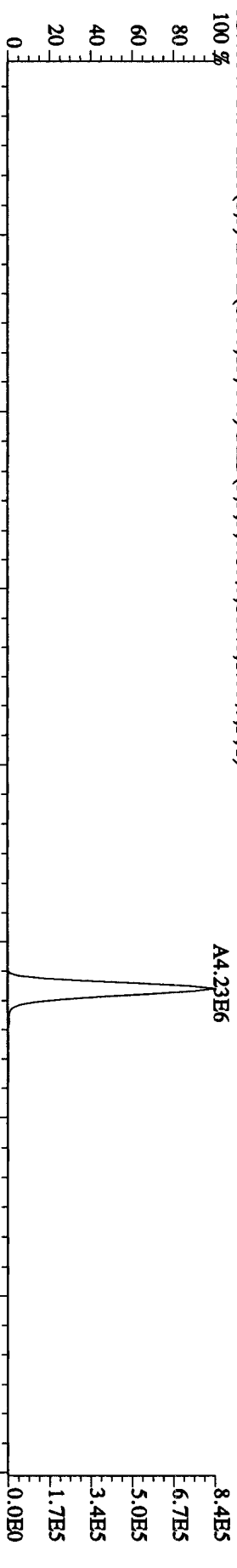
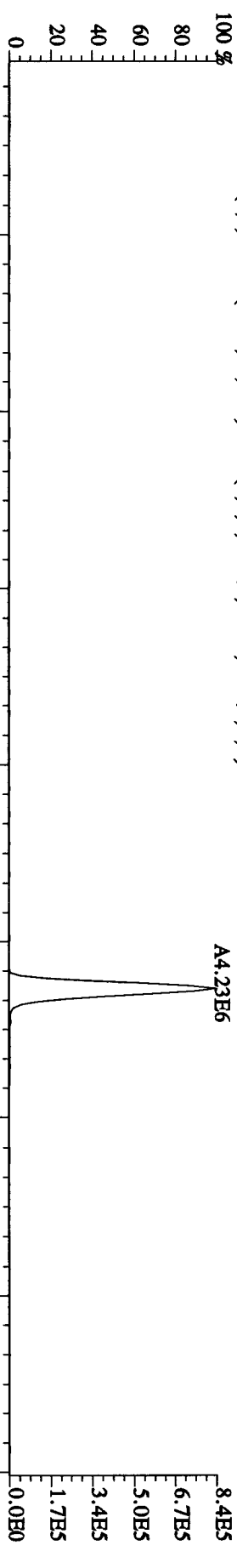
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 303.9016 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T) 100%



File:28OC104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 319.8965 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,668.0,1.00%,F,T)



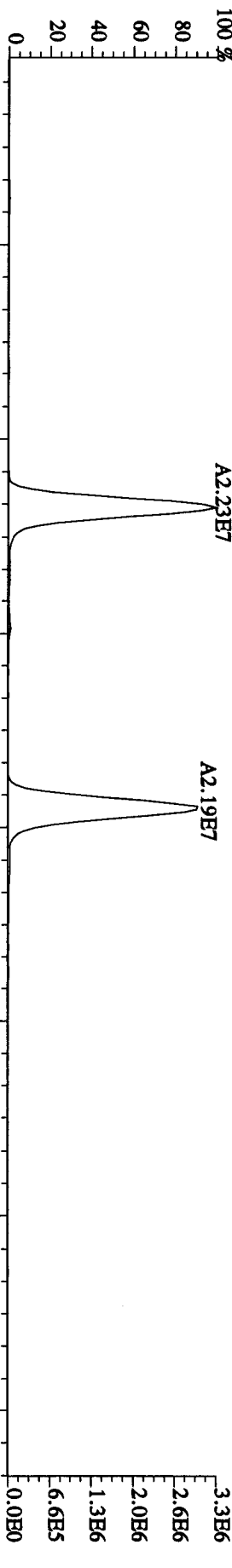
File: 280C104D5 #1-530 Acq: 29-OCT-2010 07:09:39 GC EI + Voltage S1R Autospec-Ultimate
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 327.8847 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)



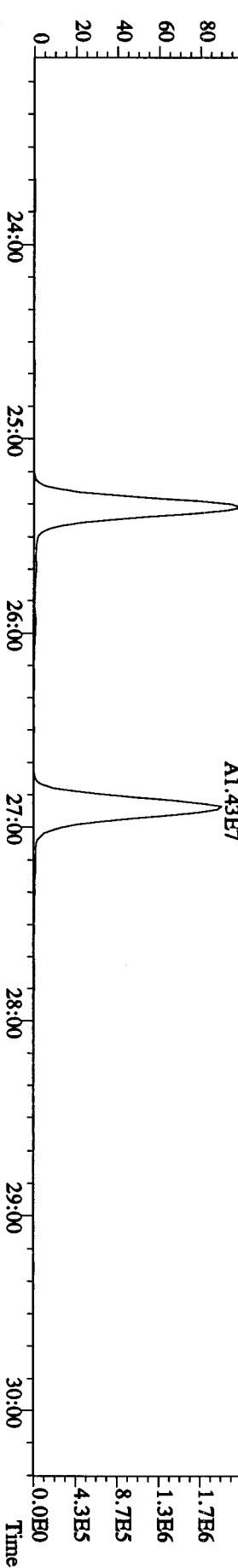
File:280C104D5 #1-469 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE

Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES

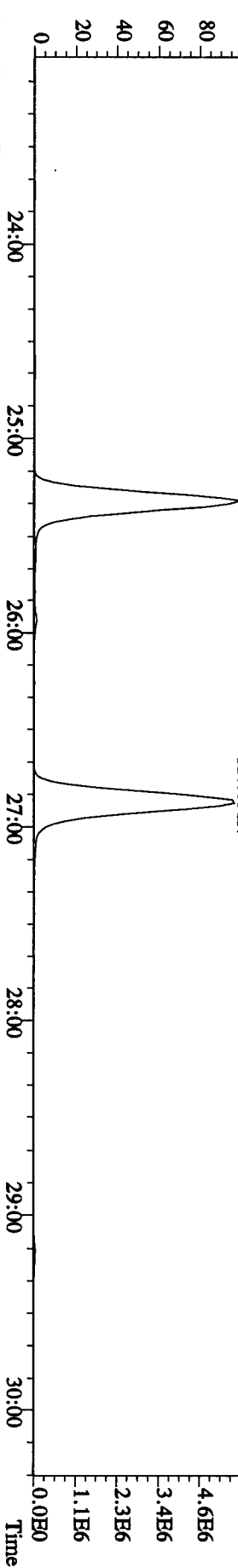
339.8597 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1196,0,1,00%,F,T)



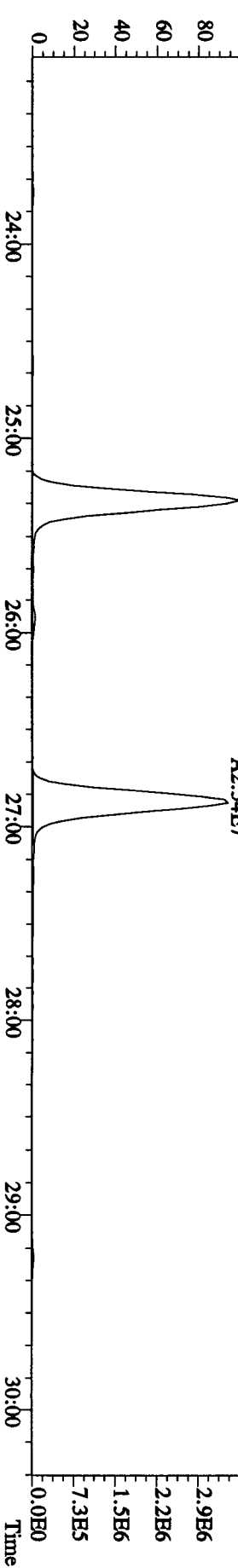
341.8567 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1976,0,1,00%,F,T)



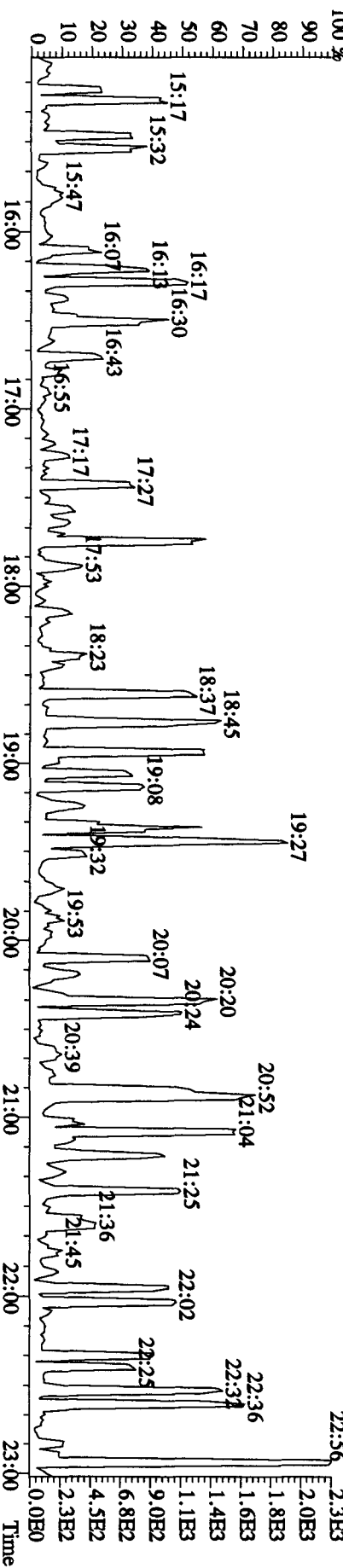
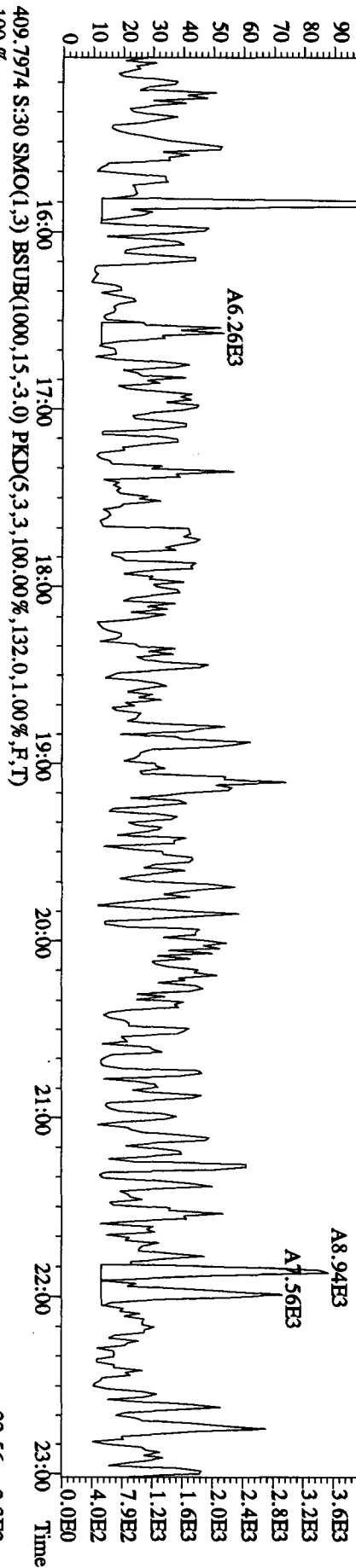
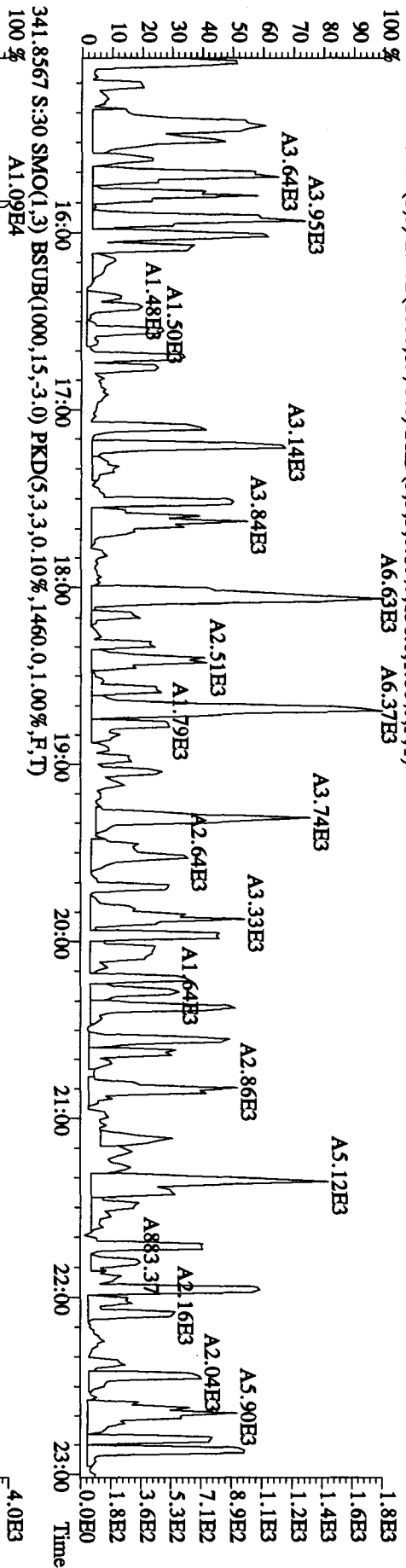
351.9000 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1948,0,1,00%,F,T)



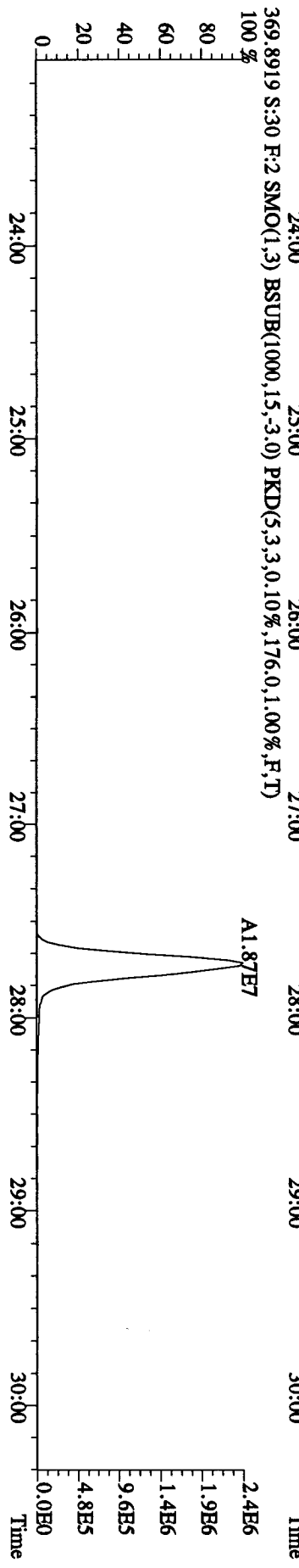
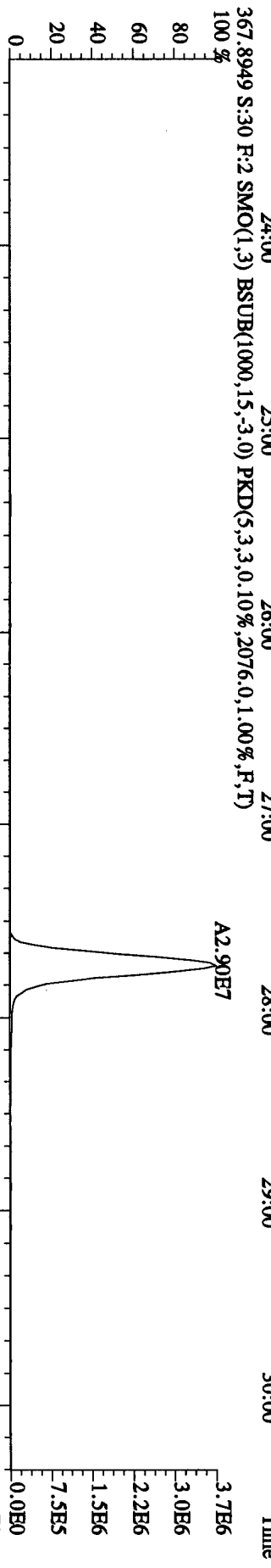
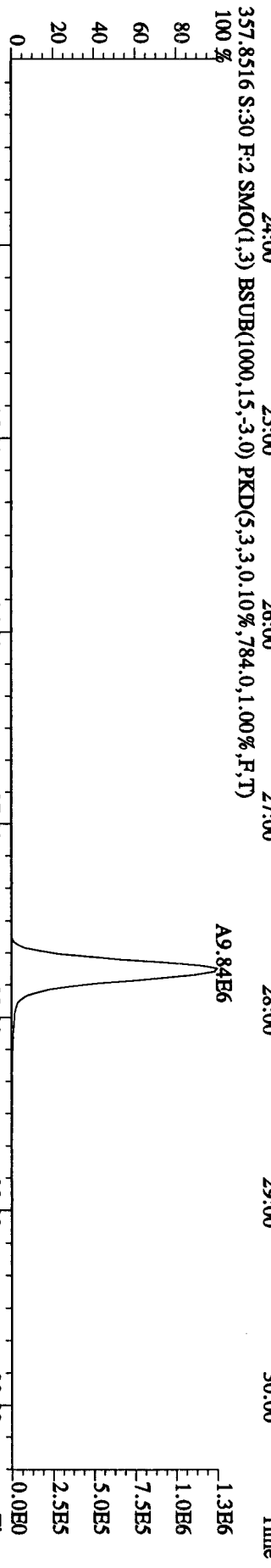
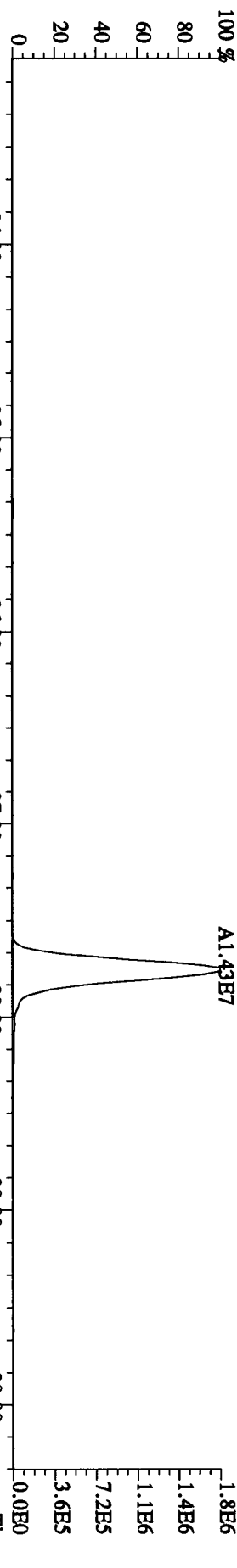
353.8970 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1152,0,1,00%,F,T)



File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DDXN461 Exp:DIOXINRES
 339.8597 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,136.0,1.00%,F,T) A6.63E3 A6.37E3



File:28OC104D5 #1-469 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UHimate
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 355.8546 S:30 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1520.0,1.00%,F,T)

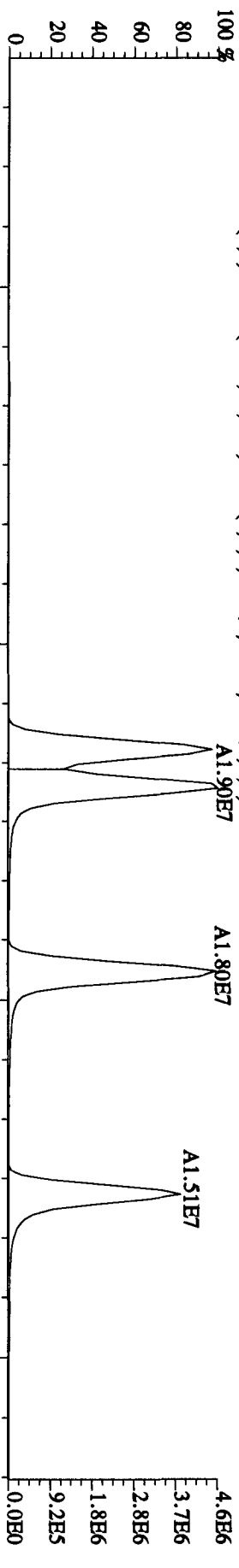


File:280C104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE

Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES

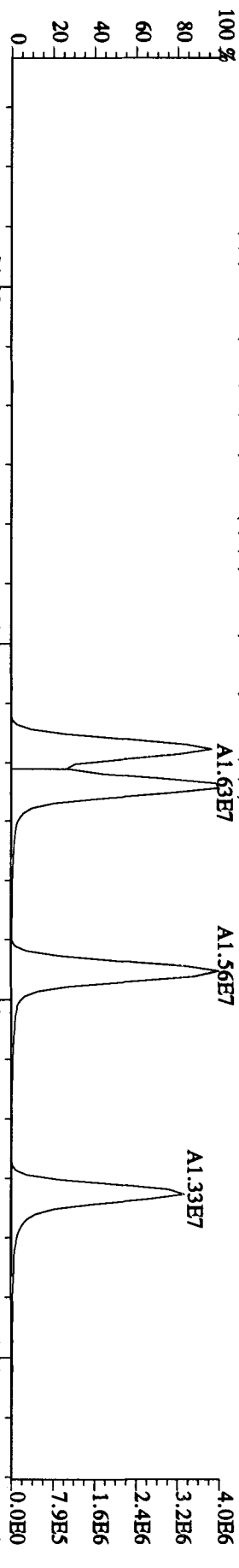
373.8208 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,484.0,1.00%,F,T)

100 % A1.90E7



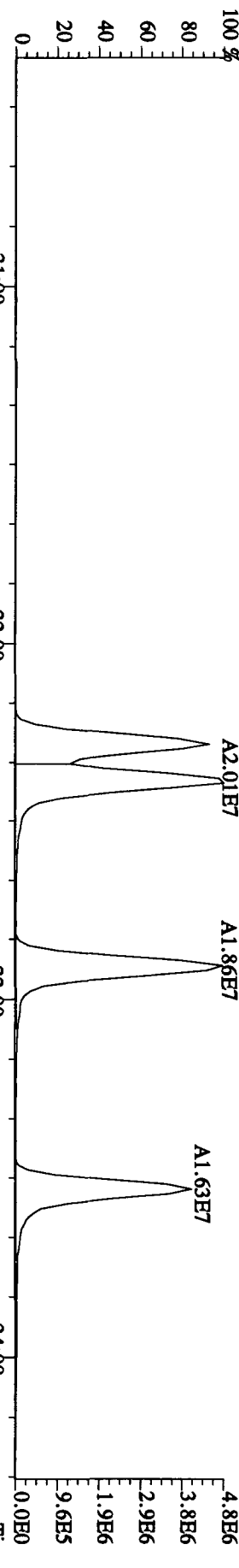
375.8178 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,608.0,1.00%,F,T)

100 % A1.63E7



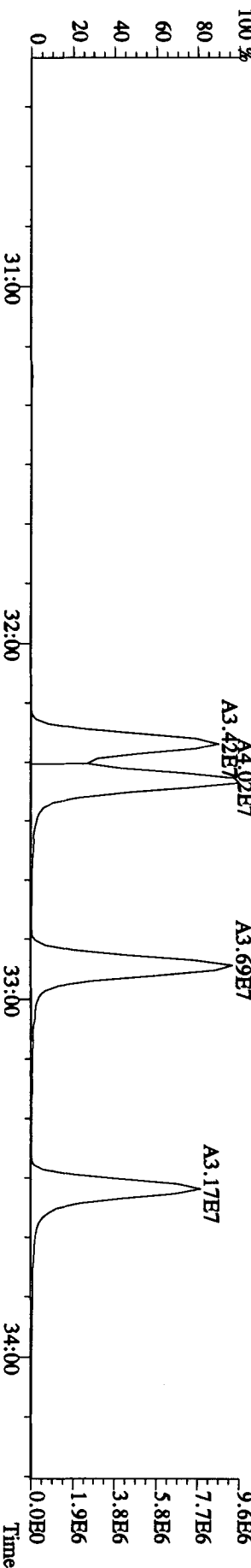
383.8639 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,268.0,1.00%,F,T)

100 % A2.01E7

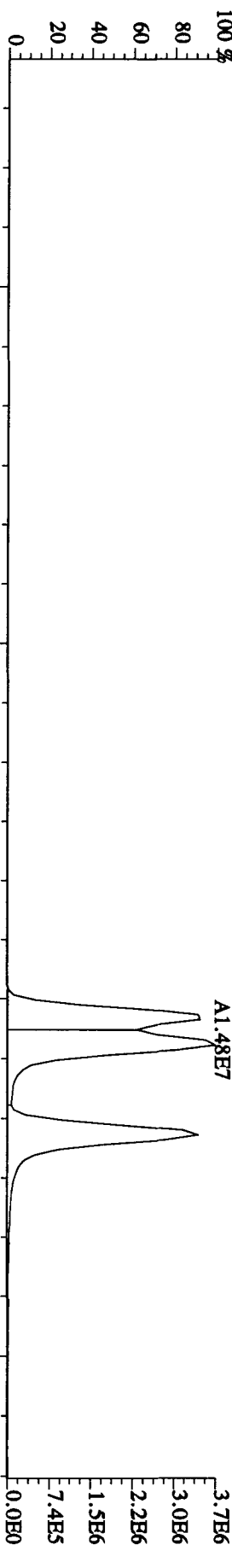


385.8610 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1496.0,1.00%,F,T)

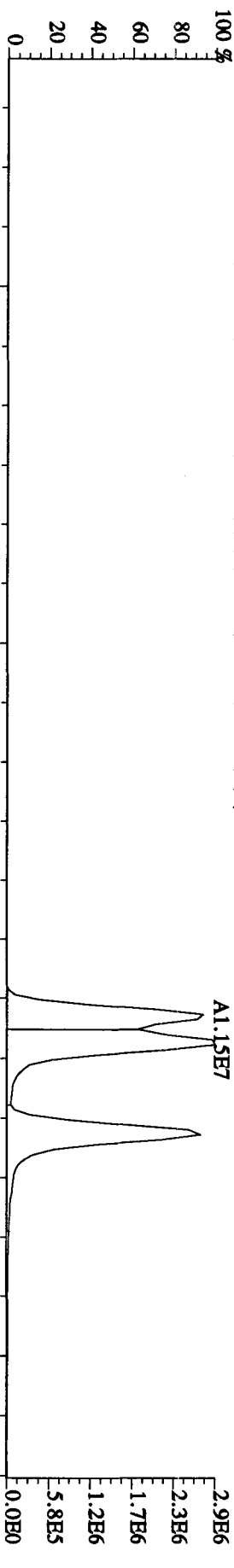
100 % A3.42E7



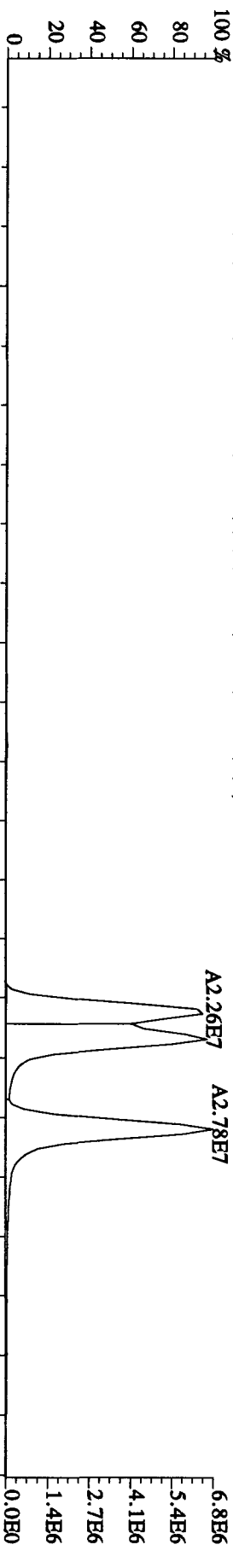
File:28OC104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-Ultimate
Sample#30 Text:ST1028C :CSS 10DXN461 Exp:DIOXINRES
389.8157 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,604.0,1.00%,F,T)



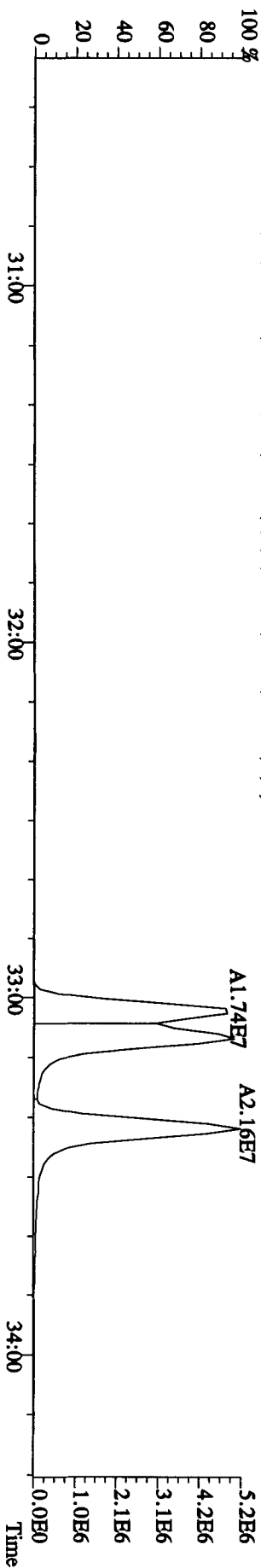
391.8127 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1116.0,1.00%,F,T)



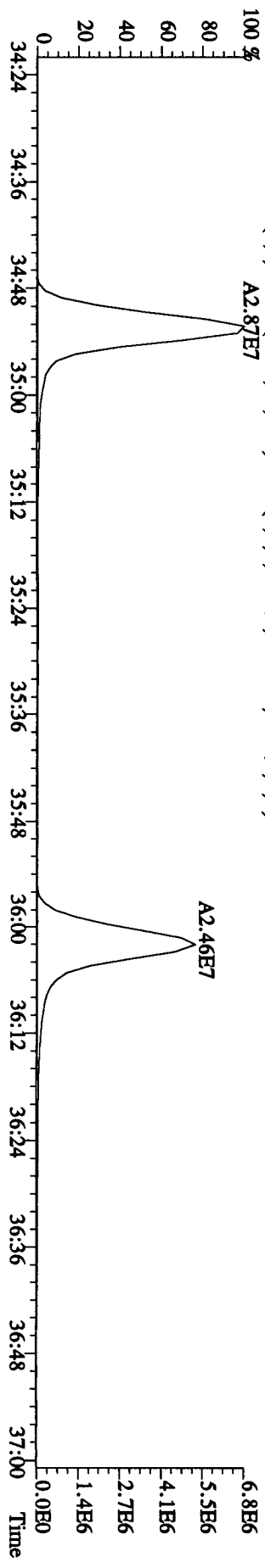
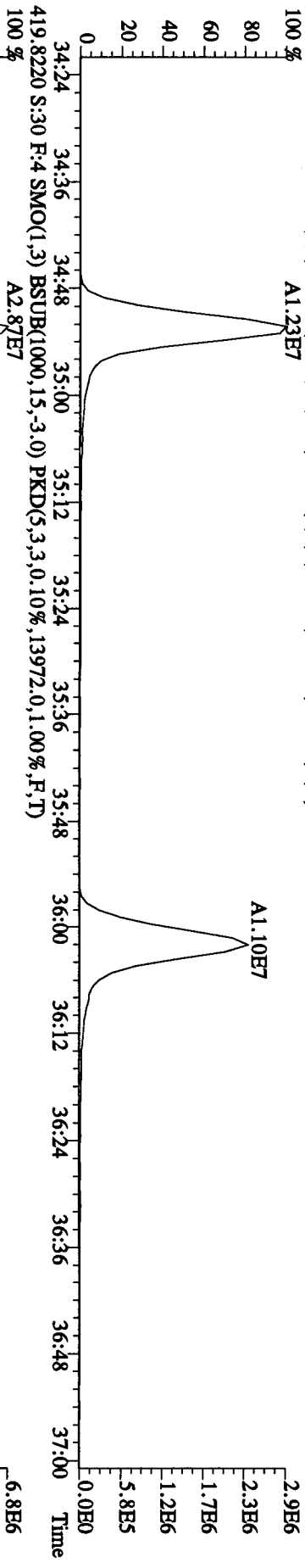
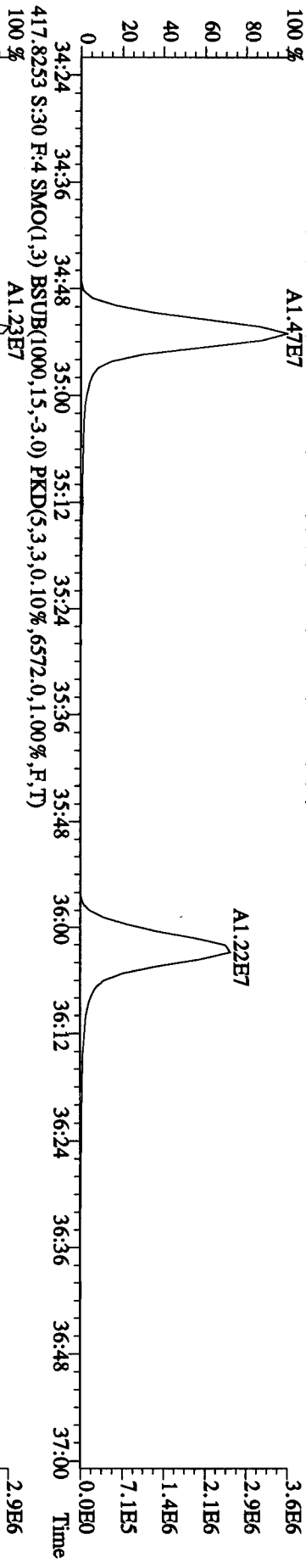
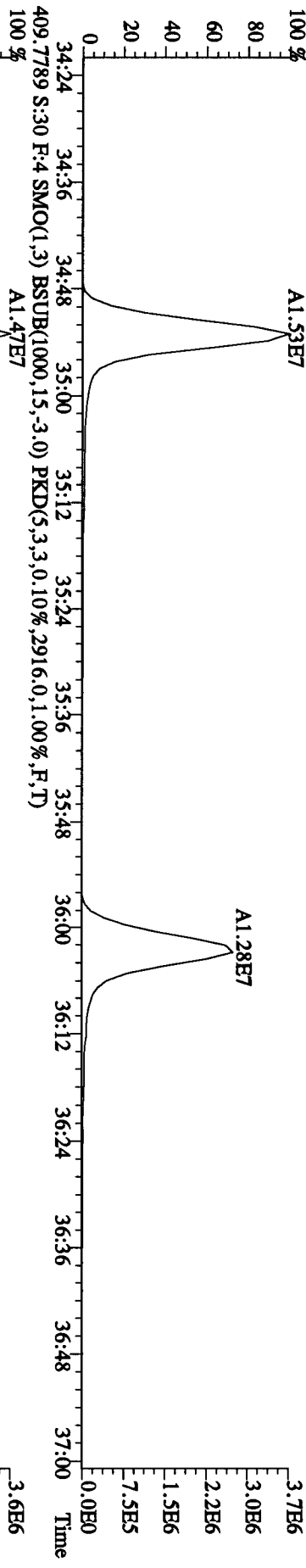
401.8559 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,168.0,1.00%,F,T)



403.8529 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,212.0,1.00%,F,T)

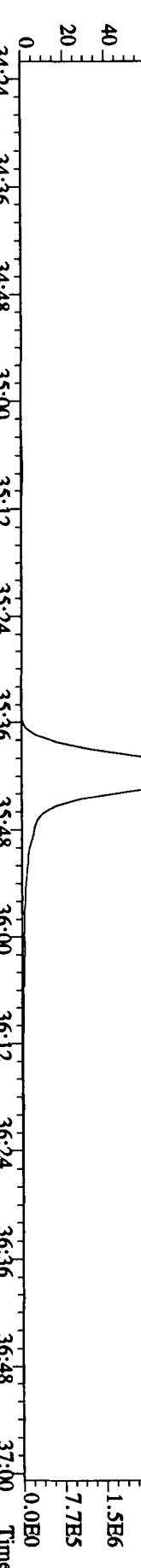
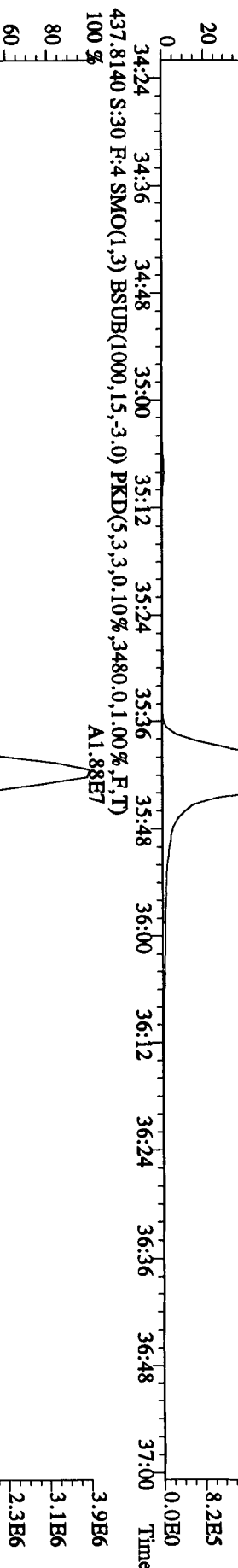
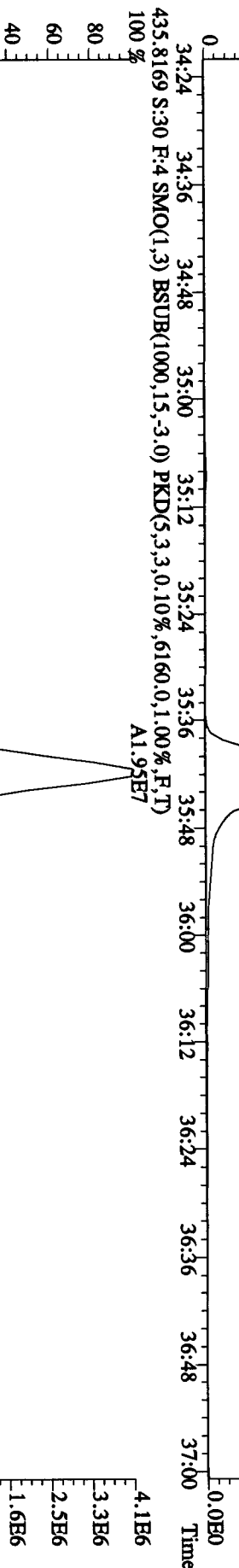
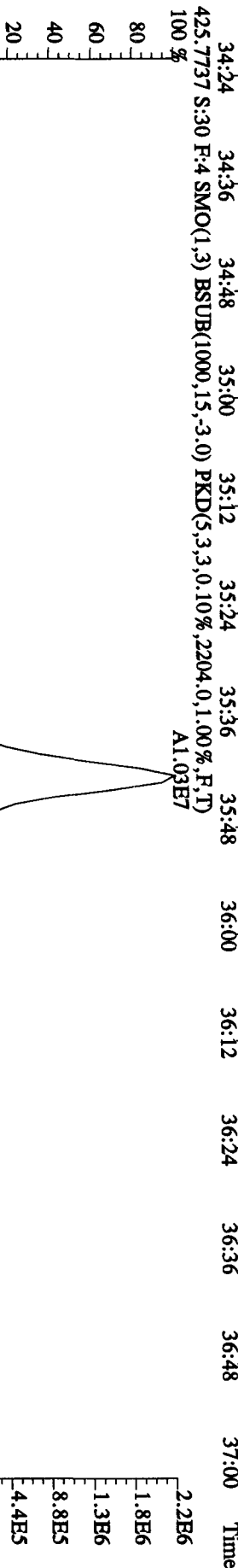
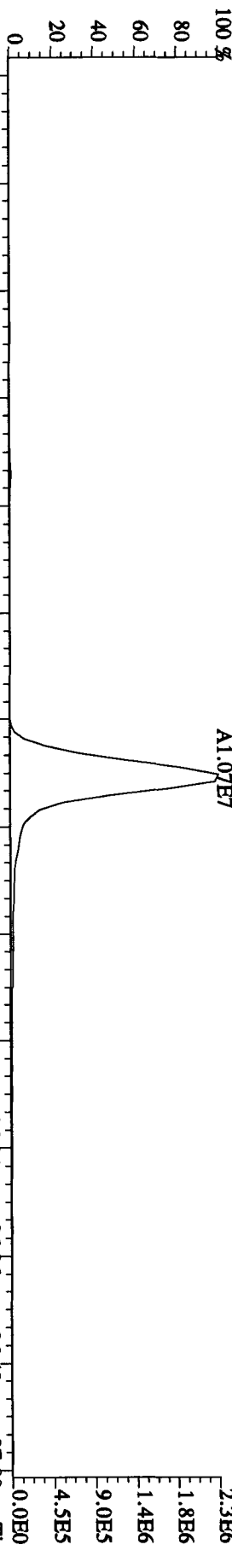


File:280C104D5 #1-201 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 407.7818 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4096,0,1.00%,F,T)
 100 % A1.53E7

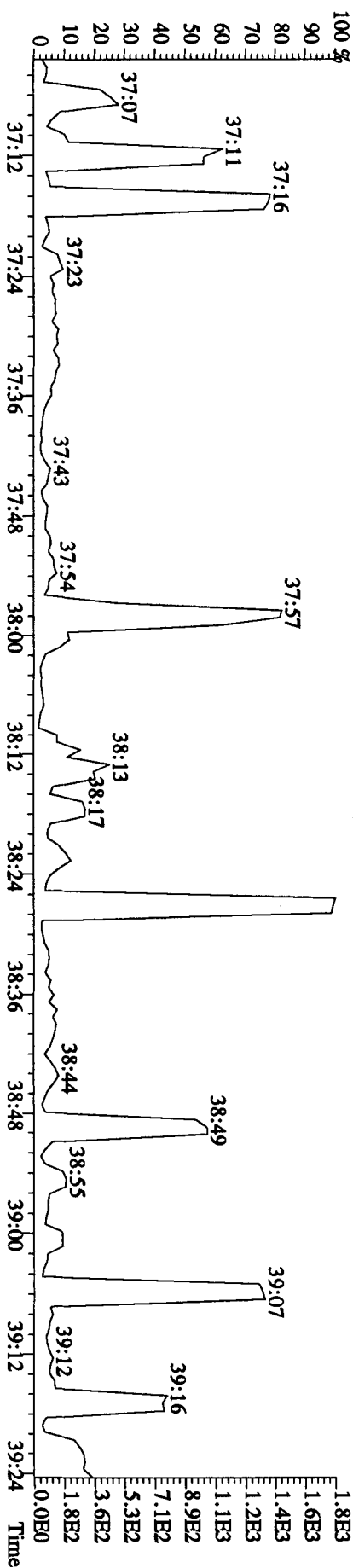
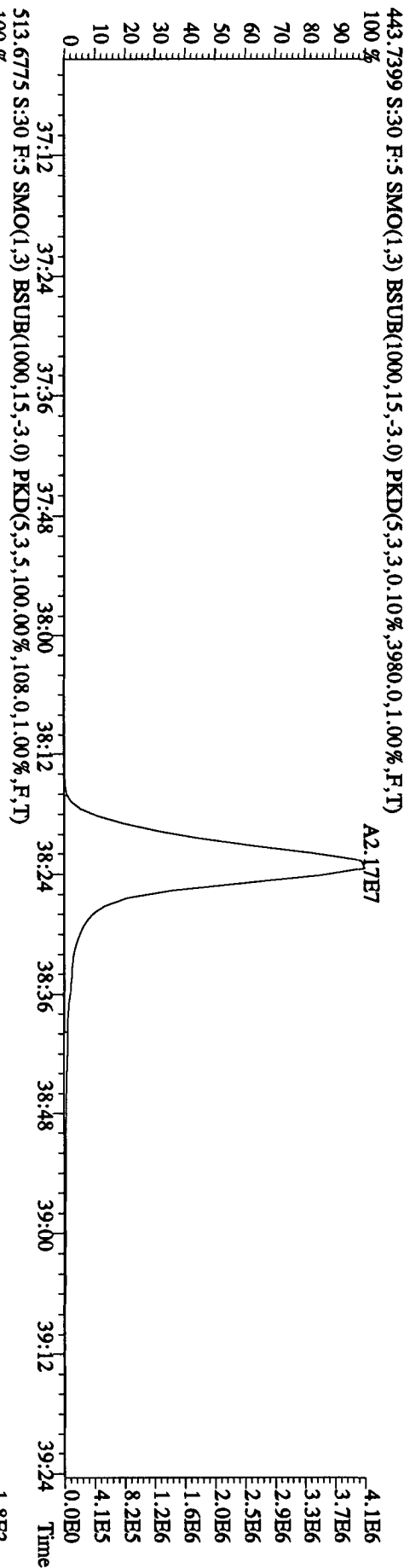
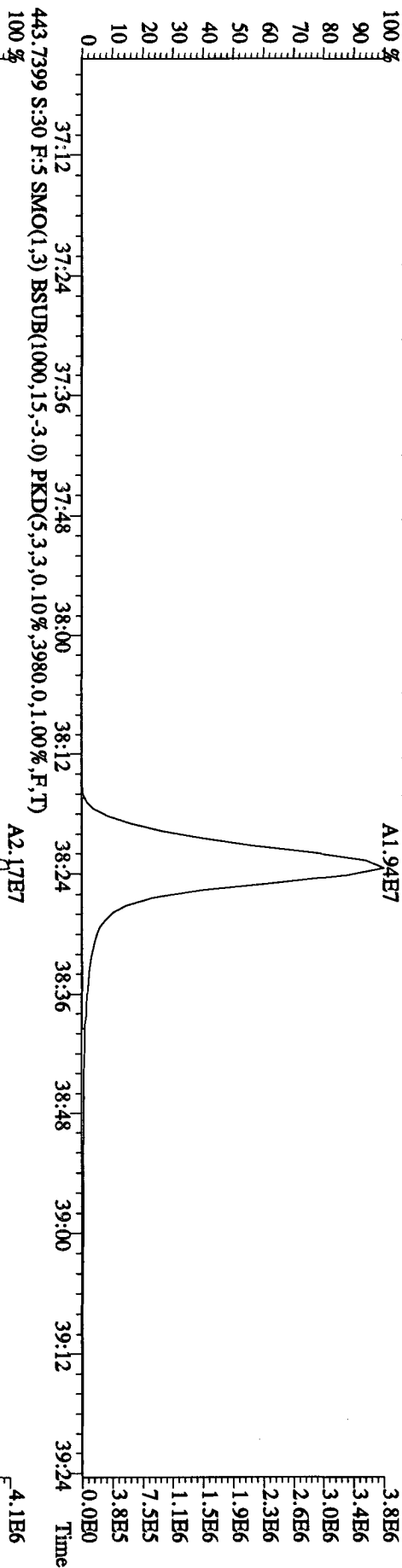


File:28OC104D5 #1-201 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SFR Autospec-Ultimate

Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINES

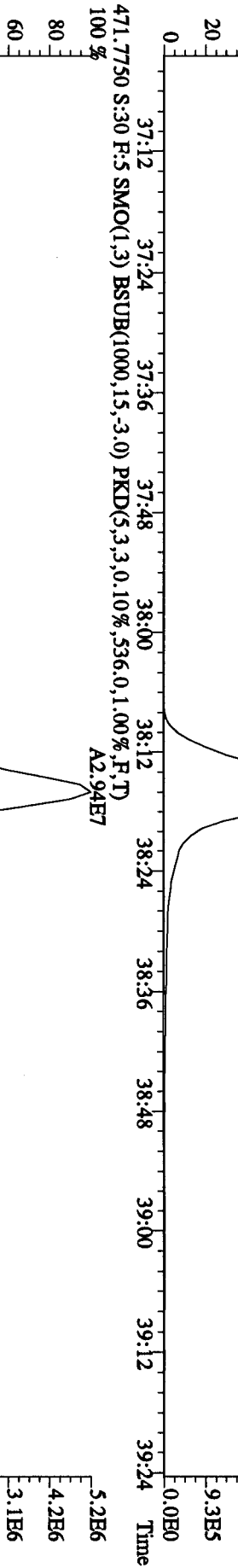
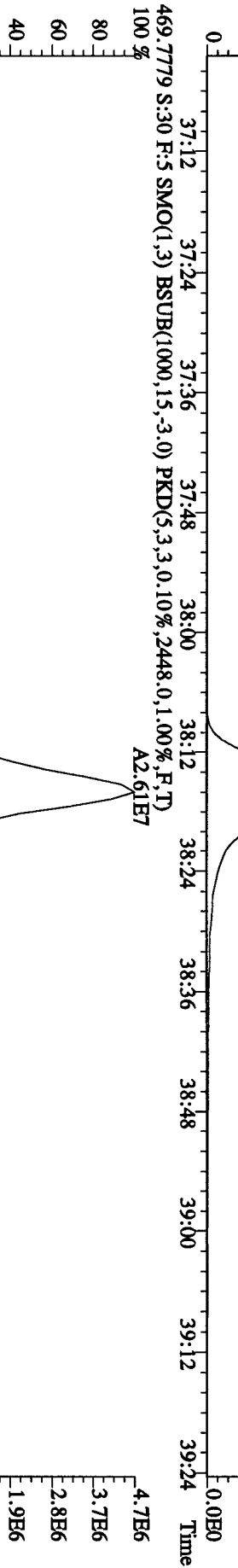
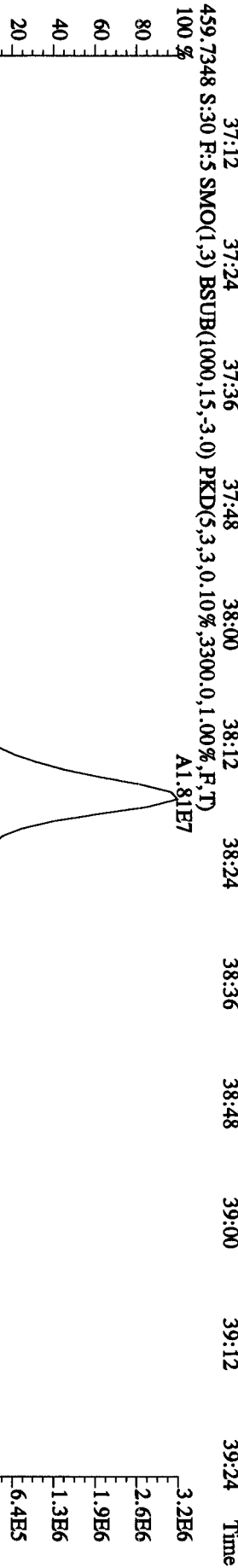
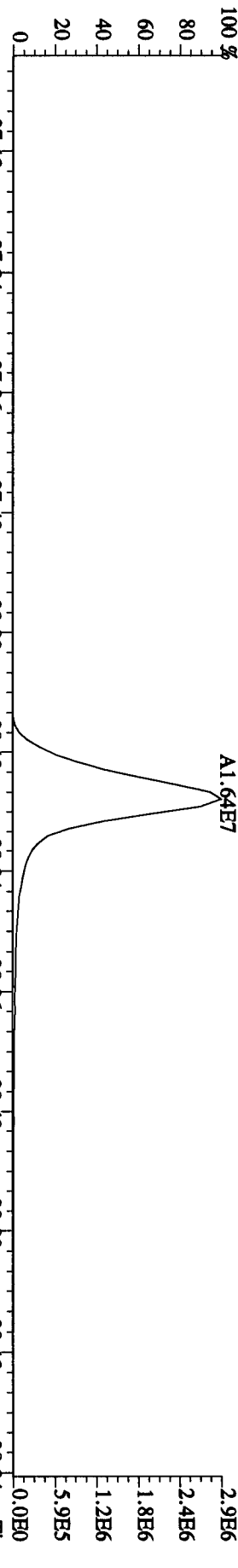


File: 28OC104D5 #1-192 Acq: 29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-UltimaE
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 441.7428 S:30 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)

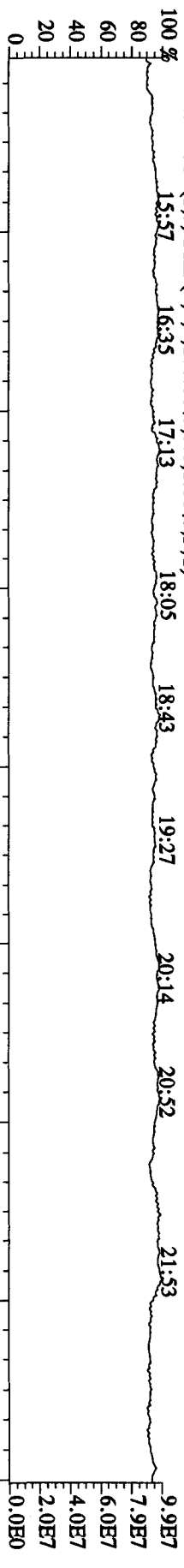


File:28OC104D5 #1-192 Acq:29-OCT-2010 07:09:39 GC EI + Voltage SIR Autospec-Ultimate

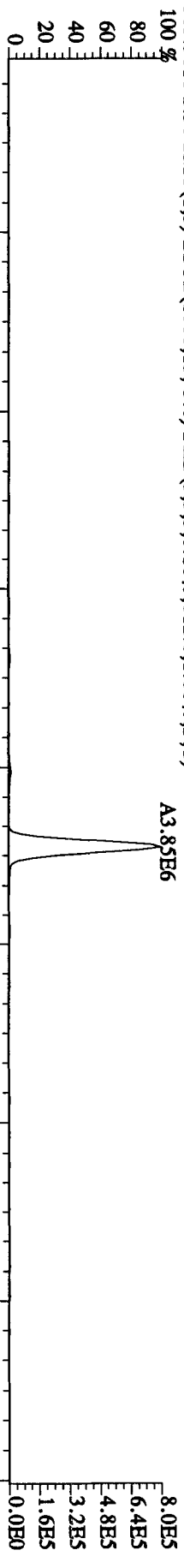
Sample#30 Text:ST1028C :CS3 10DXN461 Exp.:DIOXINRES



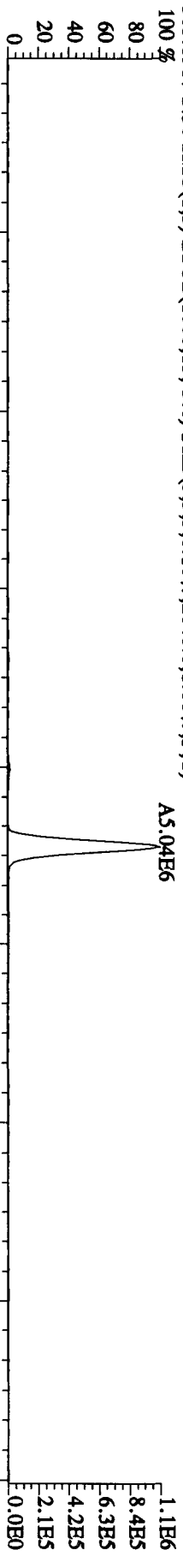
File:280C104D5 #1-530 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES
 292.9825 S:30 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



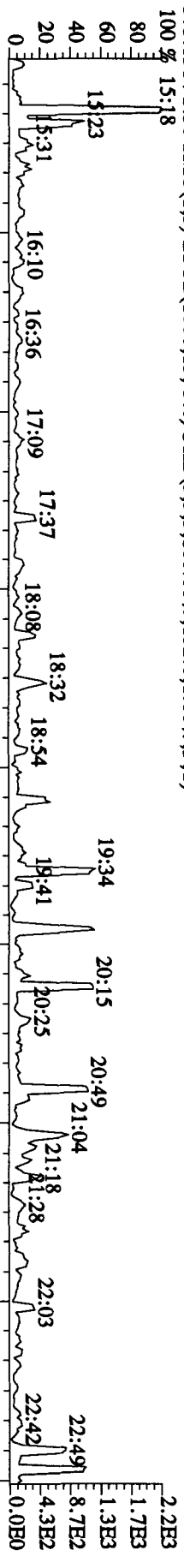
303.9016 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



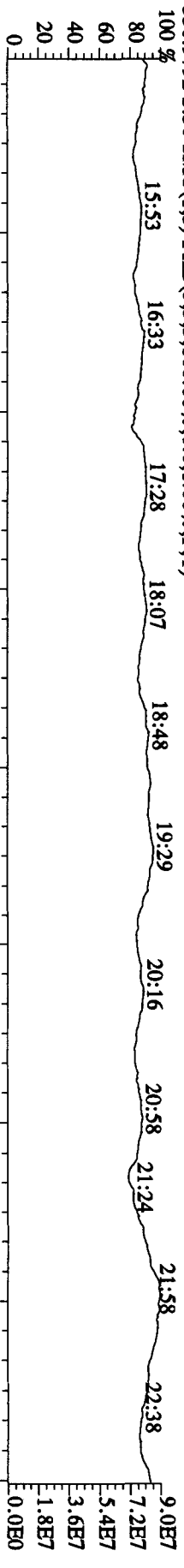
305.8987 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2048.0,1.00%,F,T)



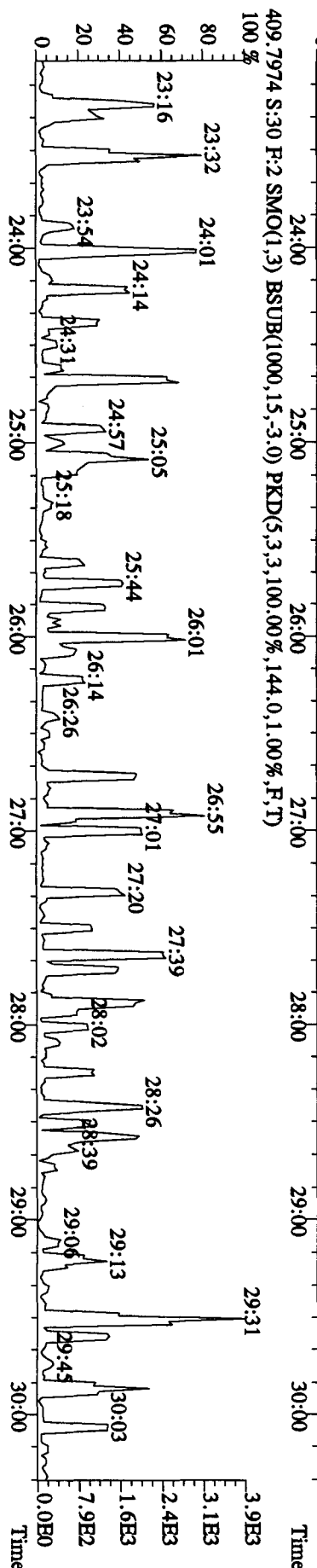
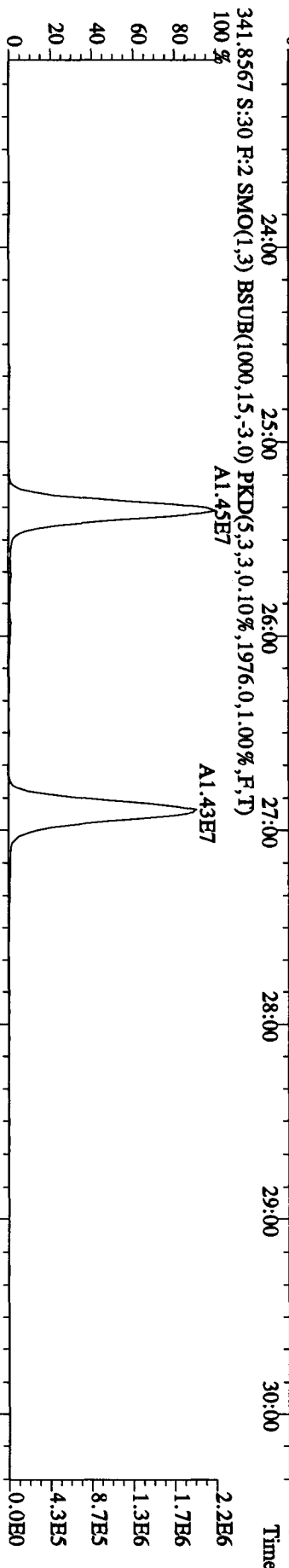
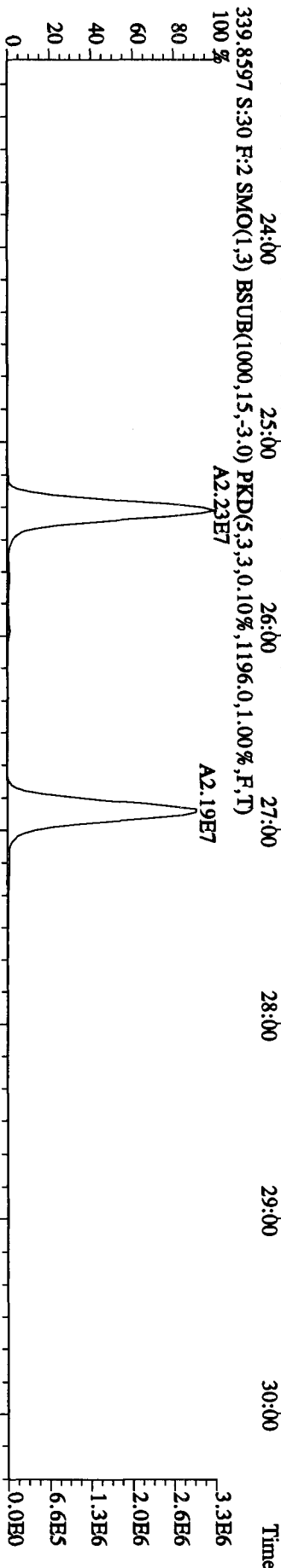
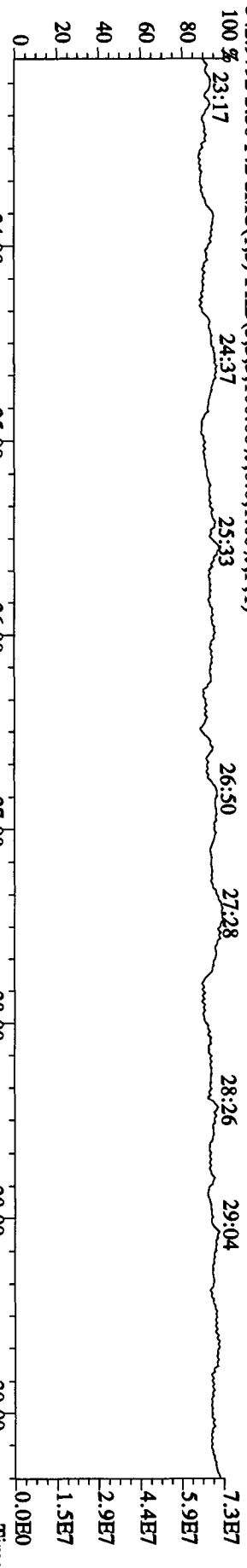
375.8364 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,152.0,1.00%,F,T)



330.9792 S:30 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



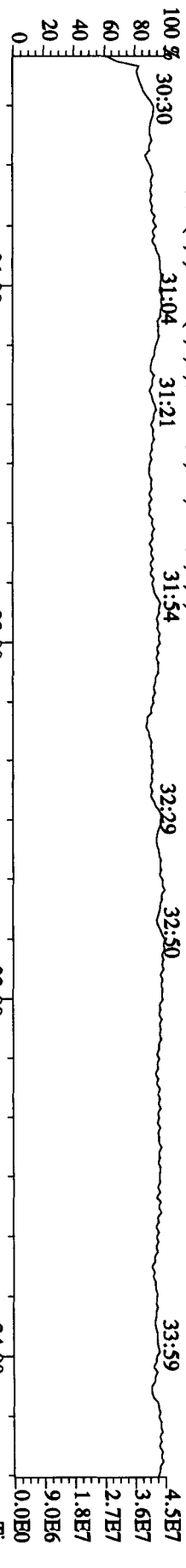
File: 280C104D5 #1-469 Acq: 29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 342.9792 S:30 F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:17 24:37 25:33 26:50 27:28 28:26 29:04



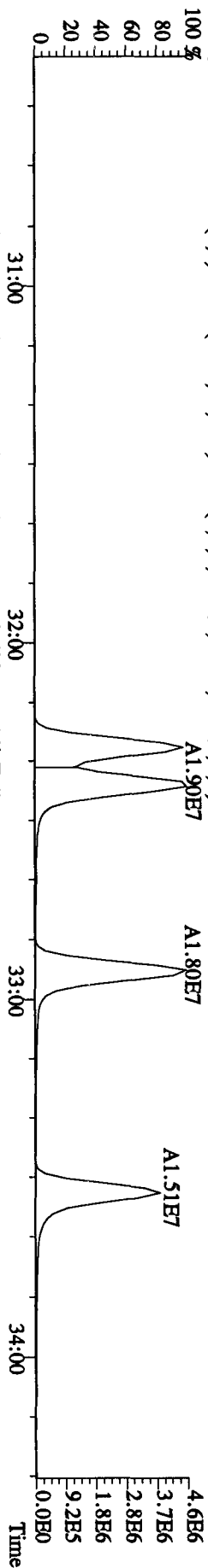
File:28OC104D5 #1-287 Acq:29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE

Sample#30 Text:ST1028C :CS3 10DXN461 Exp:DIOXINRES

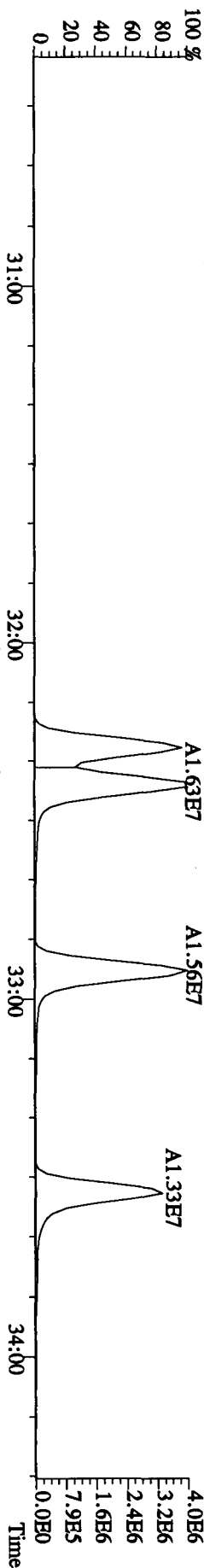
392.9760 S:30 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



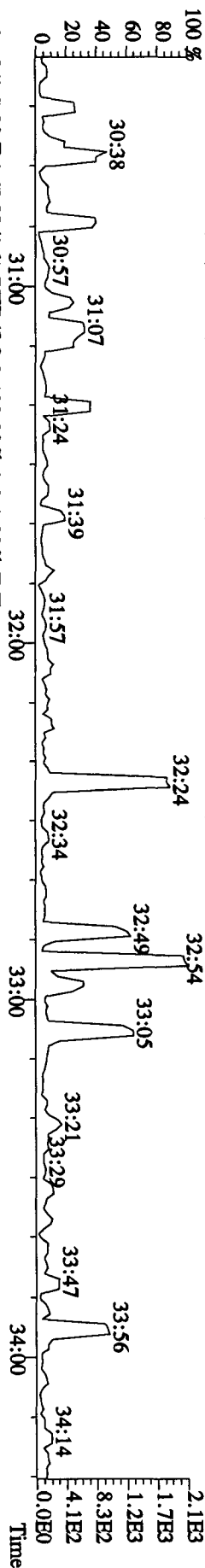
373.8208 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,484.0,1.00%,F,T)



375.8178 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,608.0,1.00%,F,T)

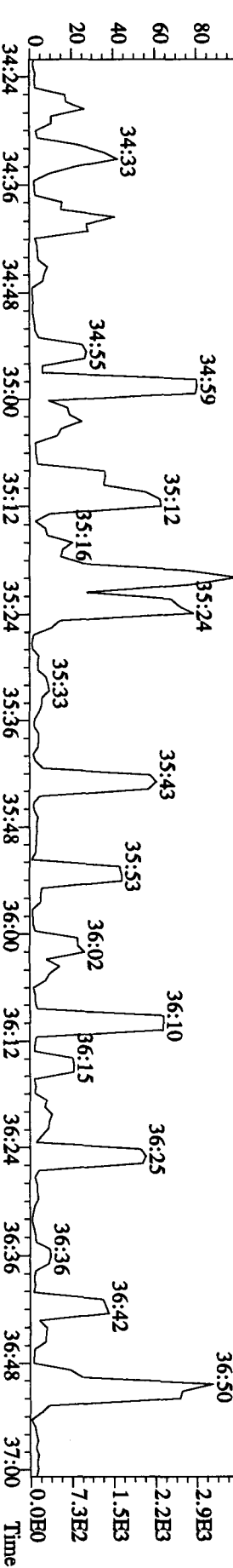
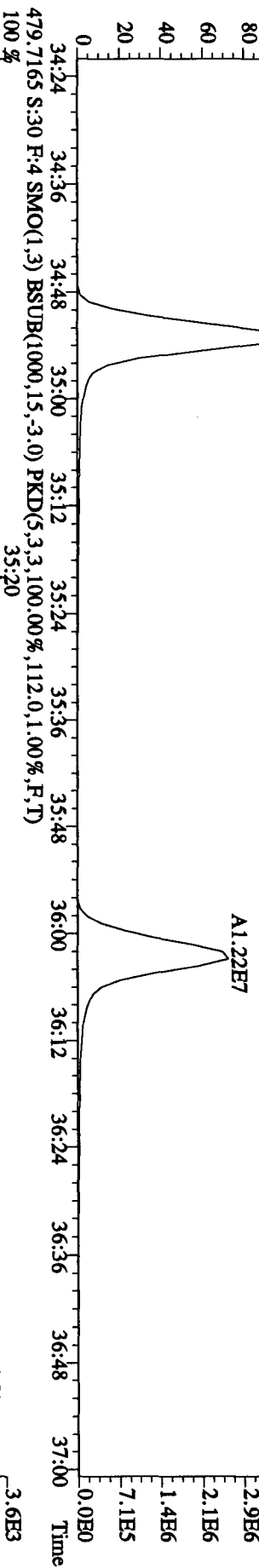
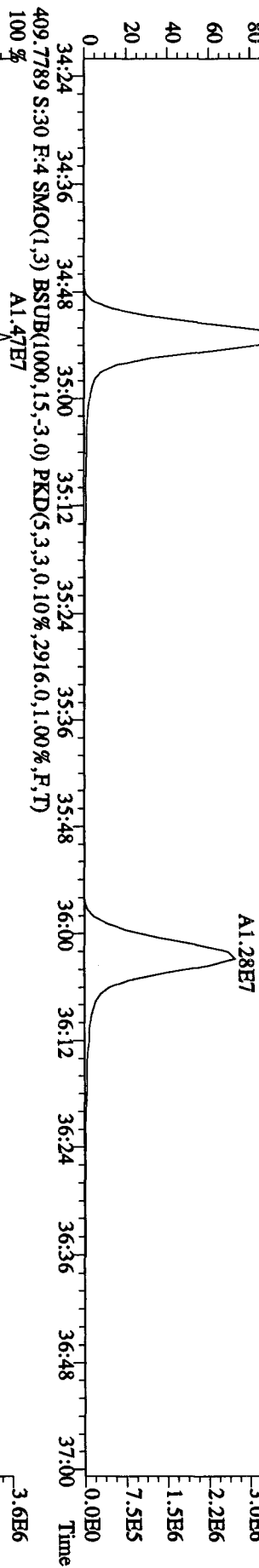
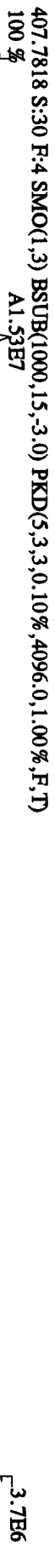
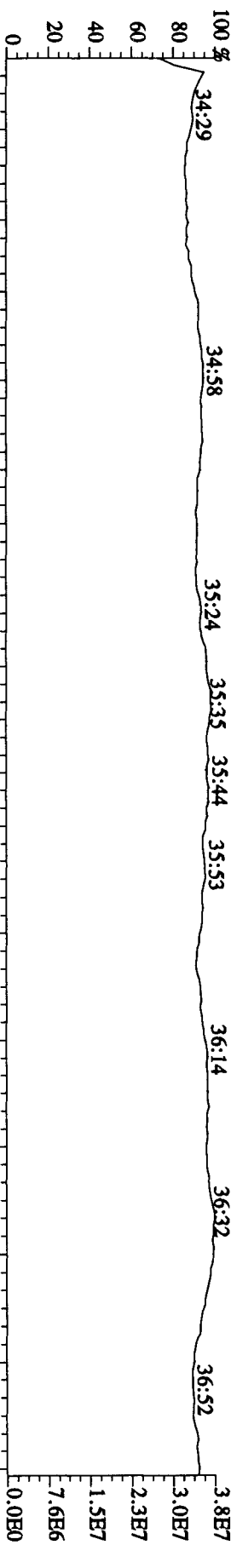


445.7555 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)

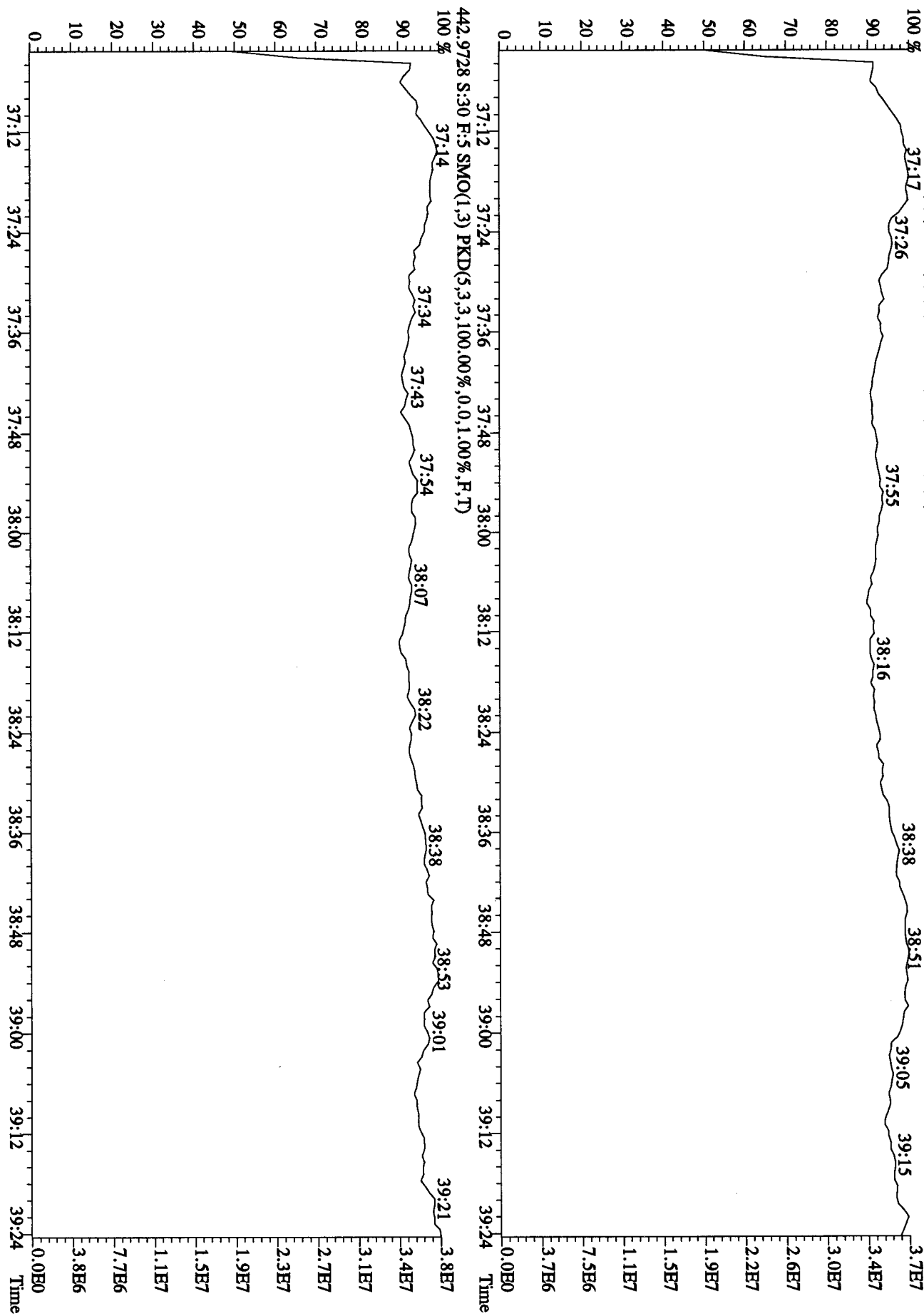


380.9760 S:30 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File: 28OC104D5 #1-192 Acq: 29-OCT-2010 07:09:39 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#30 Text: ST1028C :CS3 10DXN461 Exp: DIOXINRES
 454.9728 S:30 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR)0726105D2R ^{AK 9/15/10}

Method ID 8290, 1613B, 23, 0023A, T09, Tetras, 8290A, Date Scanned 8-13-10 ^{KSS 9/16/10}

Column ID DB225 Instrument ID 5D2

STD ID's ST0726(A, B, C, E) STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337

GC Program DB225 Multiplier Setting 750

Analyzed By KSS Date Analyzed 7-26-10

Prepared By KSS, NK Date Prepared 7-26-10

Reviewed By KSS, MG Date Reviewed 7/26/10, 9/15/10

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

COMMENTS:

CS3 13C-1, 2, 3, 4 - TCDD RT = 15:10

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

Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

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

Name	Mean	S. D.	%RSD	26JL105D2				
				S6	S5	S7	S9	S8
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.458	0.044	3.01 %	1.40	1.42	1.47	1.49	1.50

Run #1 Filename 26JL105D2 S: 6 I: 1
Acquired: 26-JUL-10 11:25:40 Processed: 15-SEP-10 09:51:11
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

Comments:

Sample text: ST0726A :CS-1 10DXN342 RI

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	44088800	0.76 y	15:11	-	100.00	n
13C-2,3,7,8-TCDF	94137800	0.80 y	16:22	2.135	100.00	n
2,3,7,8-TCDF	523639	0.72 y	16:23	1.112	0.50	n
13C-2,3,7,8-TCDD	40331700	0.79 y	14:57	0.915	100.00	n
2,3,7,8-TCDD	331274	0.79 y	14:57	1.643	0.50	n
37Cl-2,3,7,8-TCDD	283070	1.00 y	14:57	1.404	0.50	n

Run #2 Filename 26JL105D2 S: 5 I: 1
Acquired: 26-JUL-10 10:33:31 Processed: 15-SEP-10 09:51:11
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R
Comments:
Sample text: ST0726B :CS-2 10DXN335

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	163657200	0.78 y	15:09	-	100.00	n
13C-2,3,7,8-TCDF	341921000	0.80 y	16:22	2.089	100.00	n
2,3,7,8-TCDF	7128550	0.76 y	16:22	1.042	2.00	n
13C-2,3,7,8-TCDD	142455600	0.77 y	14:55	0.870	100.00	n
2,3,7,8-TCDD	4759860	0.82 y	14:57	1.671	2.00	n
37Cl-2,3,7,8-TCDD	4046840	1.00 y	14:57	1.420	2.00	n

Run #3 Filename 26JL105D2 S: 7 I: 1
Acquired: 26-JUL-10 11:59:28 Processed: 15-SEP-10 09:51:12
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R
Comments:
Sample text: ST0726C :CS-3 10DXN336

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	128251800	0.79 y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	272023000	0.80 y	16:22	2.121	100.00	n
2,3,7,8-TCDF	27756400	0.79 y	16:23	1.020	10.00	n
13C-2,3,7,8-TCDD	116269100	0.80 y	14:56	0.907	100.00	n
2,3,7,8-TCDD	18681120	0.82 y	14:57	1.607	10.00	n
37Cl-2,3,7,8-TCDD	17122860	1.00 y	14:58	1.473	10.00	n

Run #4 Filename 26JL105D2 S: 9 I: 1
Acquired: 26-JUL-10 13:07:04 Processed: 15-SEP-10 09:51:13
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

Comments:

Sample text: ST0726E :CS-4 10DXN337

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	123056800	0.79 y	15:08	-	100.00 n
13C-2,3,7,8-TCDF	250112000	0.82 y	16:21	2.032	100.00 n
2,3,7,8-TCDF	106424800	0.78 y	16:22	1.064	40.00 n
13C-2,3,7,8-TCDD	105587000	0.78 y	14:54	0.858	100.00 n
2,3,7,8-TCDD	69020900	0.83 y	14:55	1.634	40.00 n
37Cl-2,3,7,8-TCDD	62912400	1.00 y	14:55	1.490	40.00 n

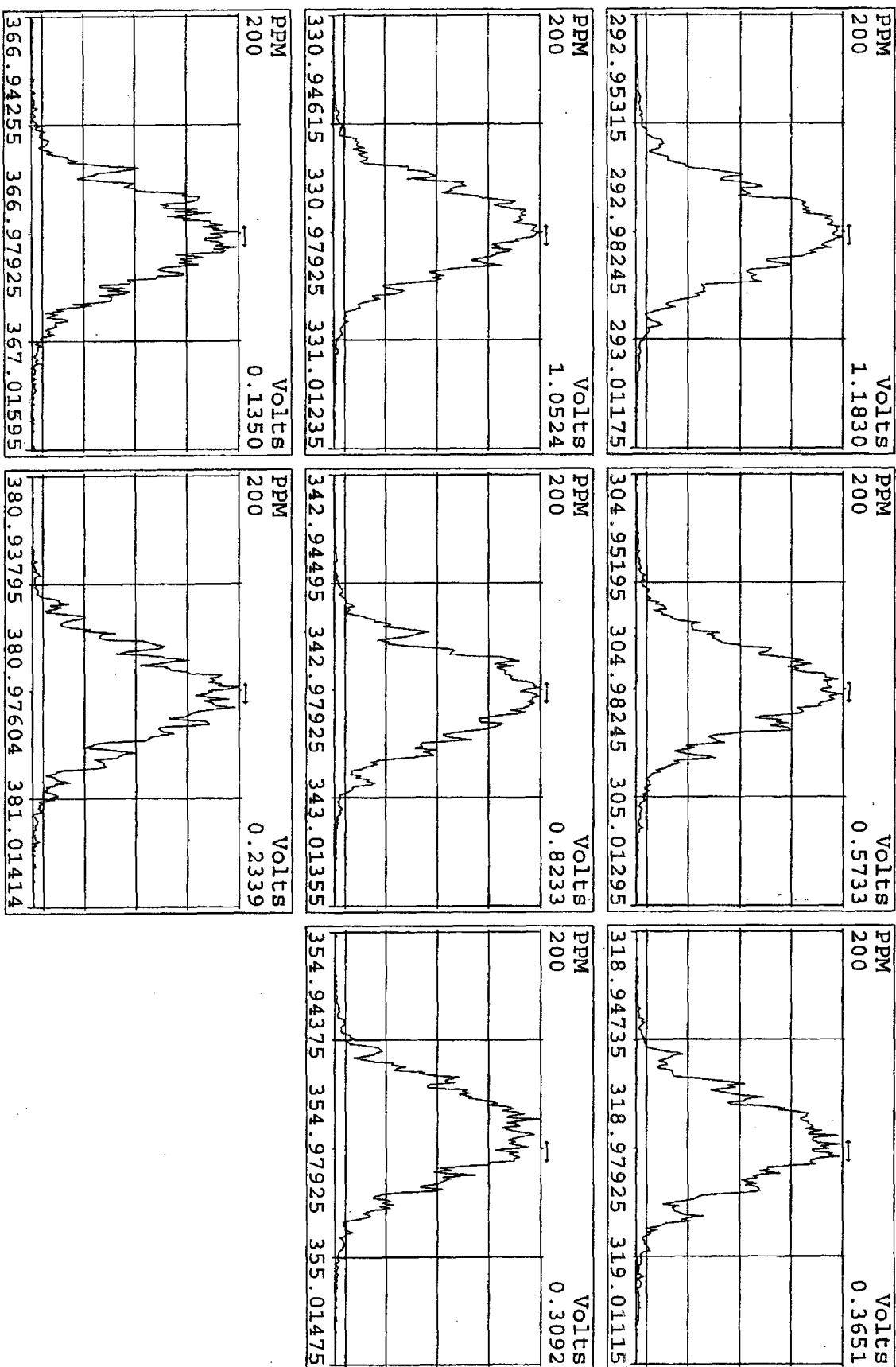
Run #5 Filename 26JL105D2 S: 8 I: 1
Acquired: 26-JUL-10 12:33:16 Processed: 15-SEP-10 09:51:13
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIRO726105D2R
Comments:
Sample text: ST0726D :CS-5 10DXN339

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	131444700	0.78 y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	286396000	0.80 y	16:22	2.179	100.00	n
2,3,7,8-TCDF	596616000	0.78 y	16:23	1.042	200.00	n
13C-2,3,7,8-TCDD	114849700	0.78 y	14:56	0.874	100.00	n
2,3,7,8-TCDD	373245000	0.82 y	14:57	1.625	200.00	n
37Cl-2,3,7,8-TCDD	345562000	1.00 y	14:57	1.504	200.00	n

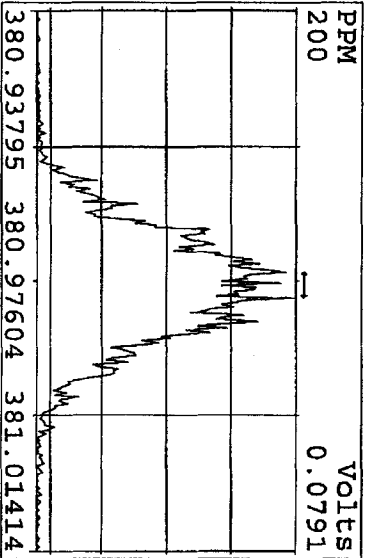
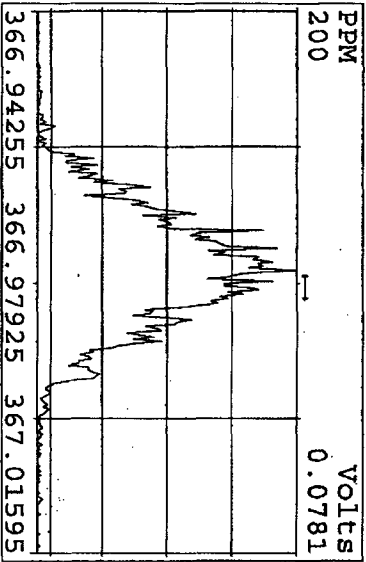
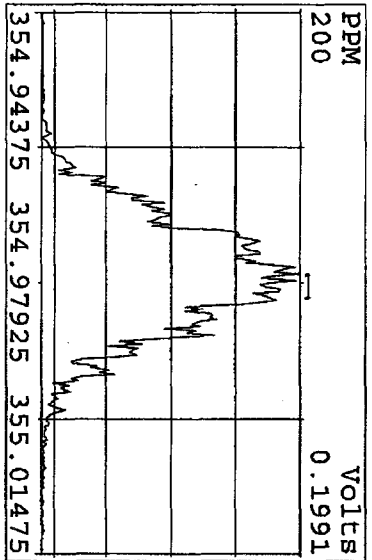
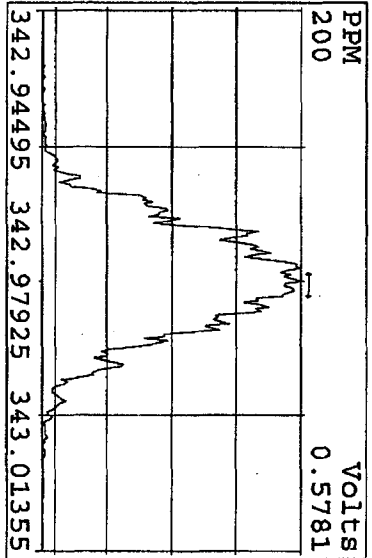
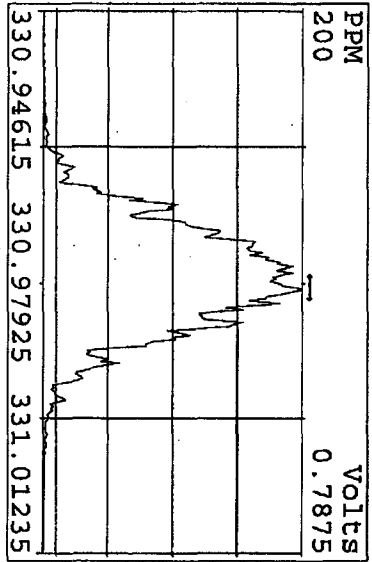
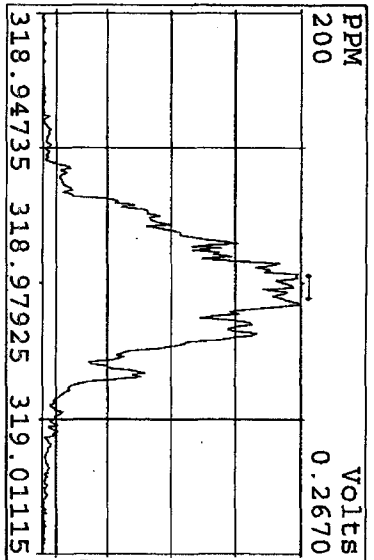
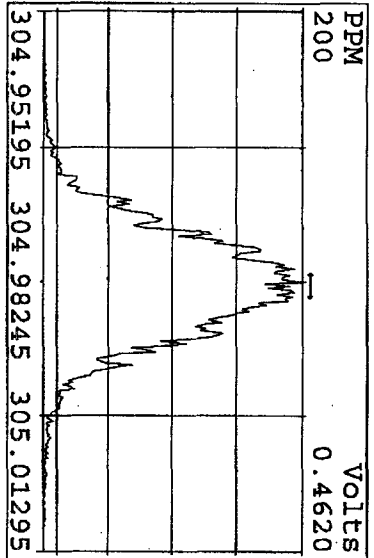
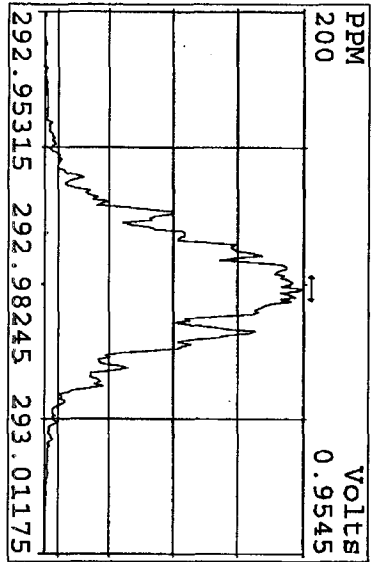
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
26JL105D2	1	CP0726	DB-225 CPSM 3732-06				1.0000	
26JL105D2	2	SB0726	Solvent Blank C-14				1.0000	
26JL105D2	3	ST0726	CS-0.2 10DXN333				1.0000	
26JL105D2	4	ST0726A	CS-1 10DXN342				1.0000	
26JL105D2	5	ST0726B	CS-2 10DXN335				1.0000	
26JL105D2	6	ST0726A	CS-1 10DXN342 RI				1.0000	
26JL105D2	7	ST0726C	CS-3 10DXN336				1.0000	
26JL105D2	8	ST0726D	CS-5 10DXN339				1.0000	
26JL105D2	9	ST0726E	CS-4 10DXN337				1.0000	
26JL105D2	10	ST0726F	2nd Source 10DXN340				1.0000	
26JL105D2	11						1.0000	
26JL105D2	12						1.0000	
26JL105D2	13						1.0000	
26JL105D2	14		KSS 07/26/10				1.0000	

*logfile v'd
NK 7/26/10*

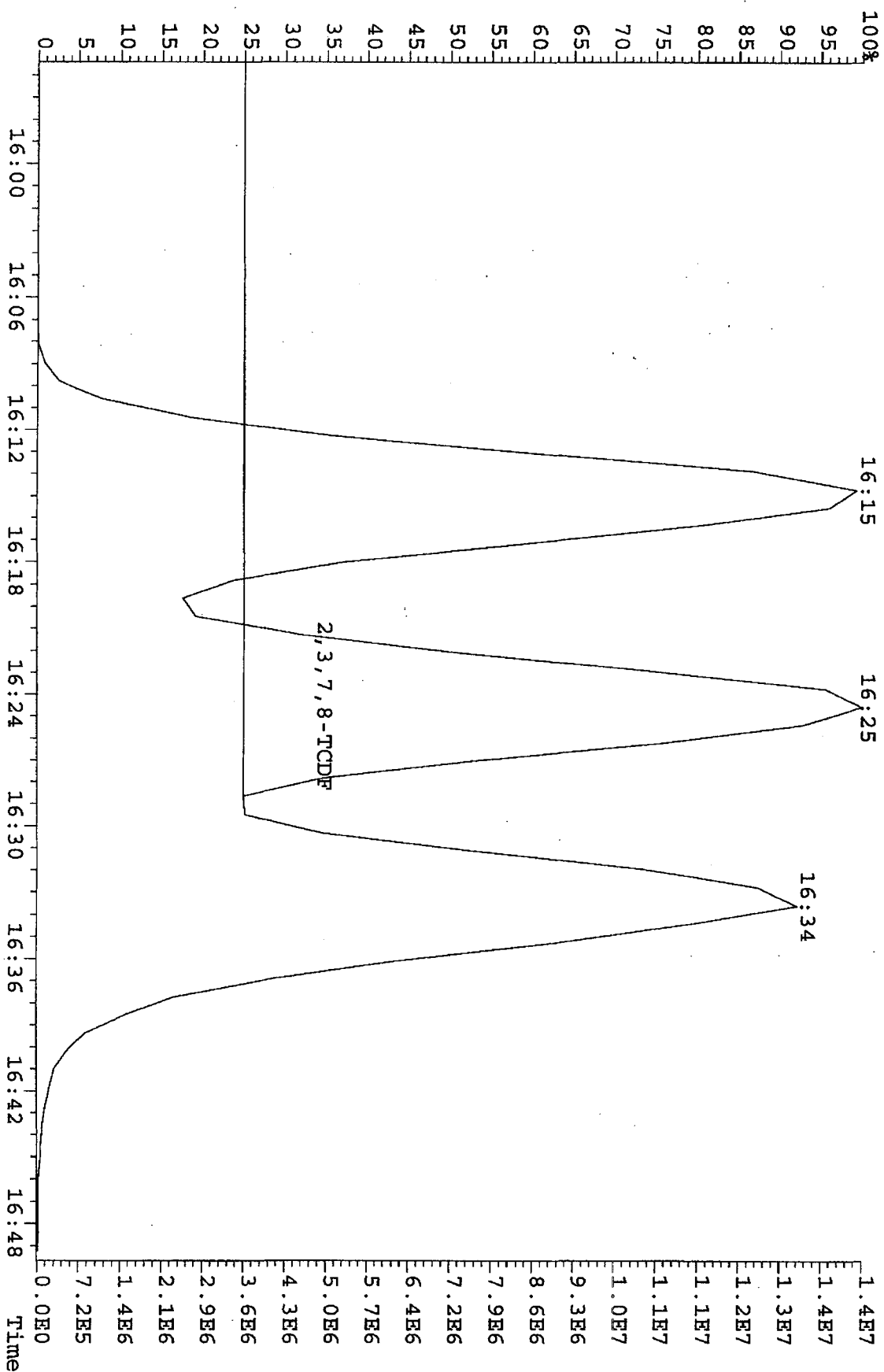
Peak Locate Examination: 26-JUL-2010: 08:17 File: 26JUL105D2
 Experiment: DB225RES Function: 1 Reference: PFK



Peak Locate Examination: 26-JUL-2010:14:43 File: 26JLI05D2ENDRES
 Experiment: DB225RES Function: 1 Reference: PFK



File: 26JLI05D2 #1-720 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
 303.9016 BSUB(128,15,-3.0) Exp: DB225RES Noise: 1410

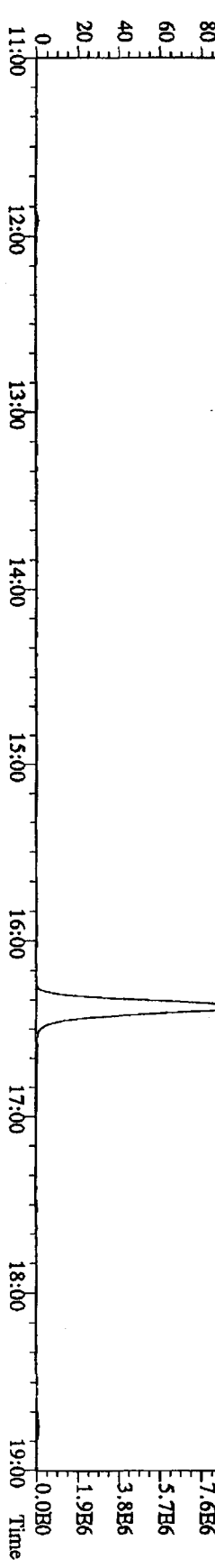
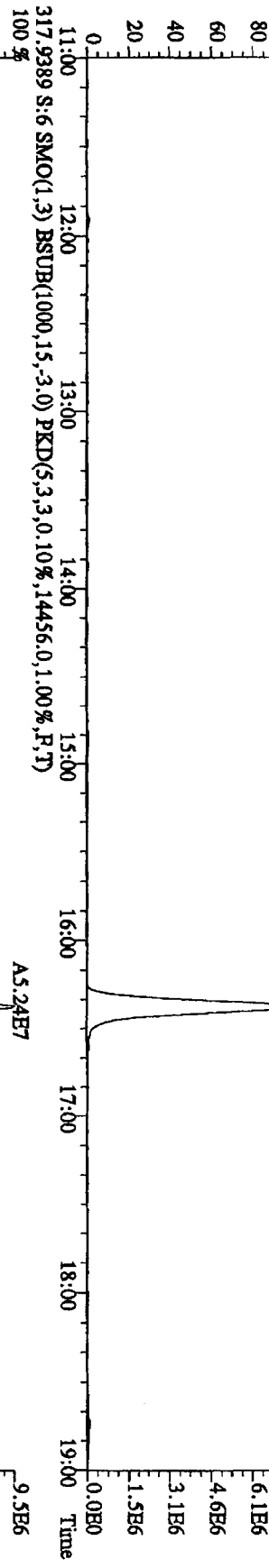
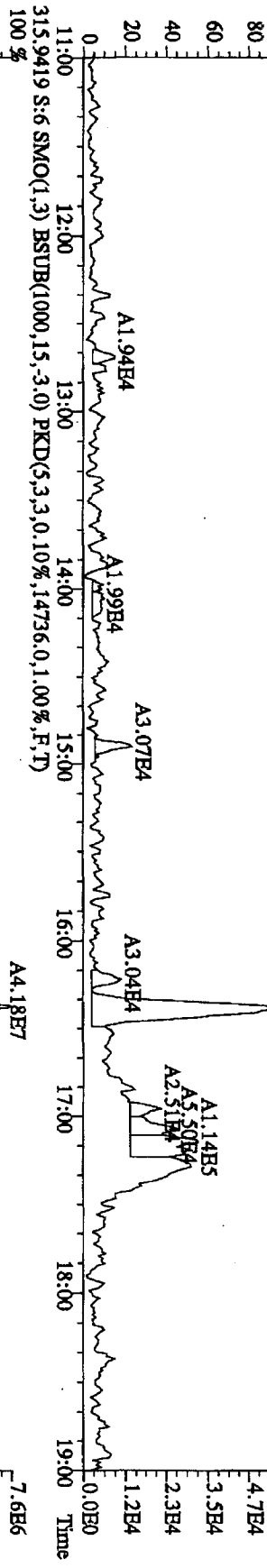
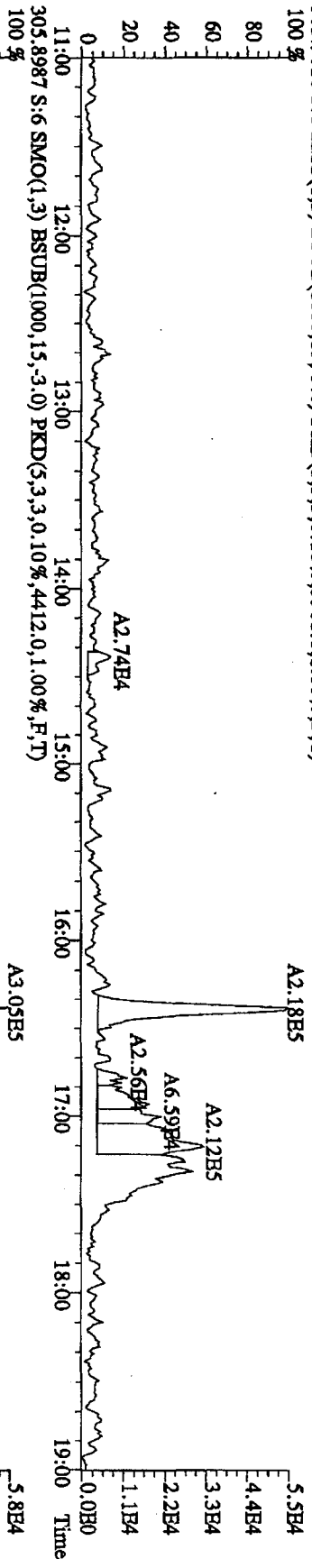


Run text: ST0726F Sample text: ST0726F :2nd Source 10DXN340
 Run #6 Filename: 26JL105D2 S: 10 I: 1 Results: 26JL105D2DB225
 Acquired: 26-JUL-10 13:40:52 Processed: 26-JUL-10 14:33:34
 Run: 26JL105D2 Analyte: DB225 Cal: DB2250726105D2
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000 *Spiked @ 200*

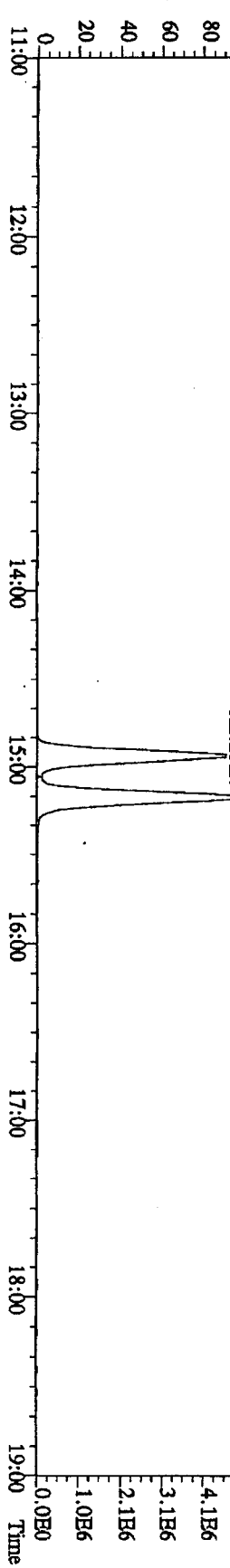
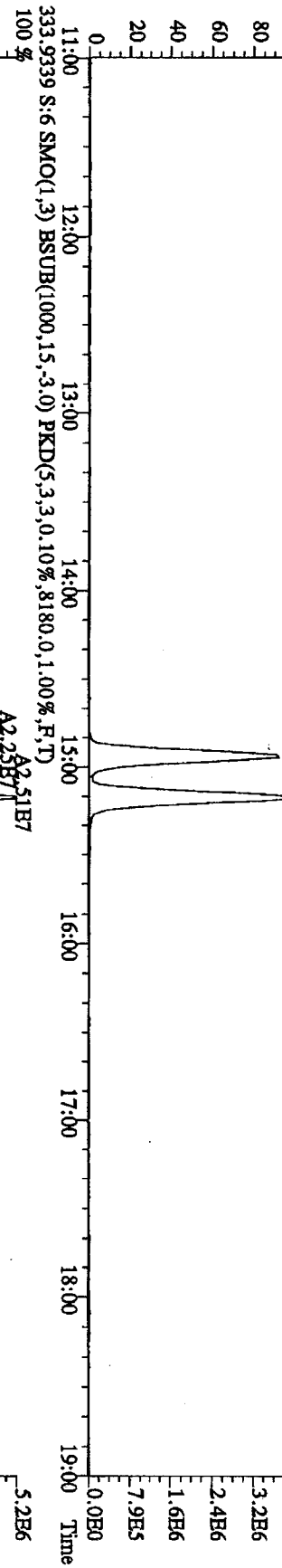
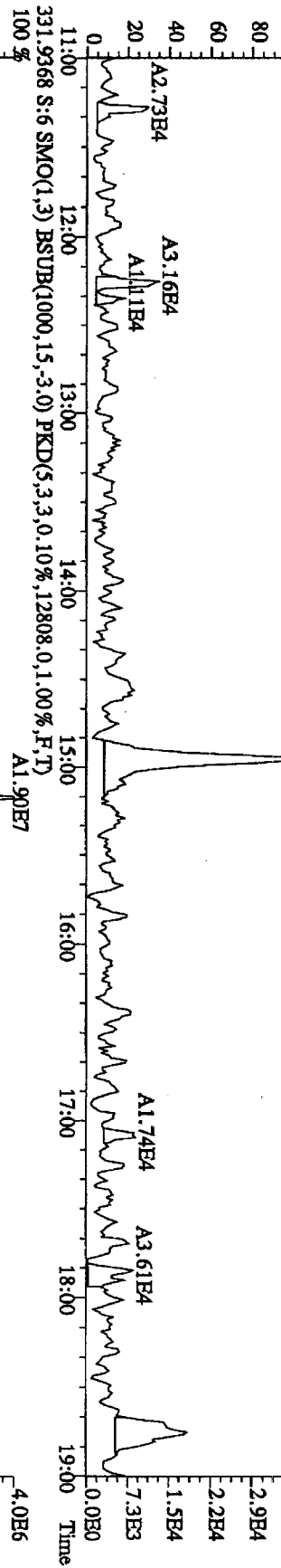
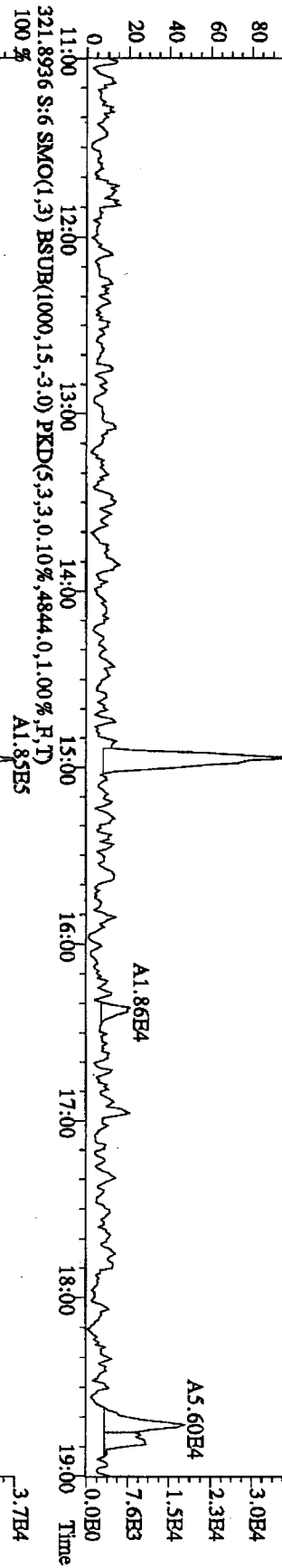
*7/26/10
KAS*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	117485800	0.79 y	15:10	-	99.48	-	-	n
13C-2,3,7,8-TCDF	262969000	0.78 y	16:22	2.11	2120.25	5.39	106.0	n
2,3,7,8-TCDF	25049900	0.79 y	16:23	1.06	180.39 ✓ 90%	1.31	-	n
13C-2,3,7,8-TCDD	111918800	0.79 y	14:56	0.88	2153.49	7.15	107.7	n
2,3,7,8-TCDD	17243860	0.81 y	14:57	1.64	188.37 ✓ 94%	1.74	-	n
37Cl-2,3,7,8-TCDD	31323200	1.00 y	14:57	1.29	413.47	2.68	103.4	n

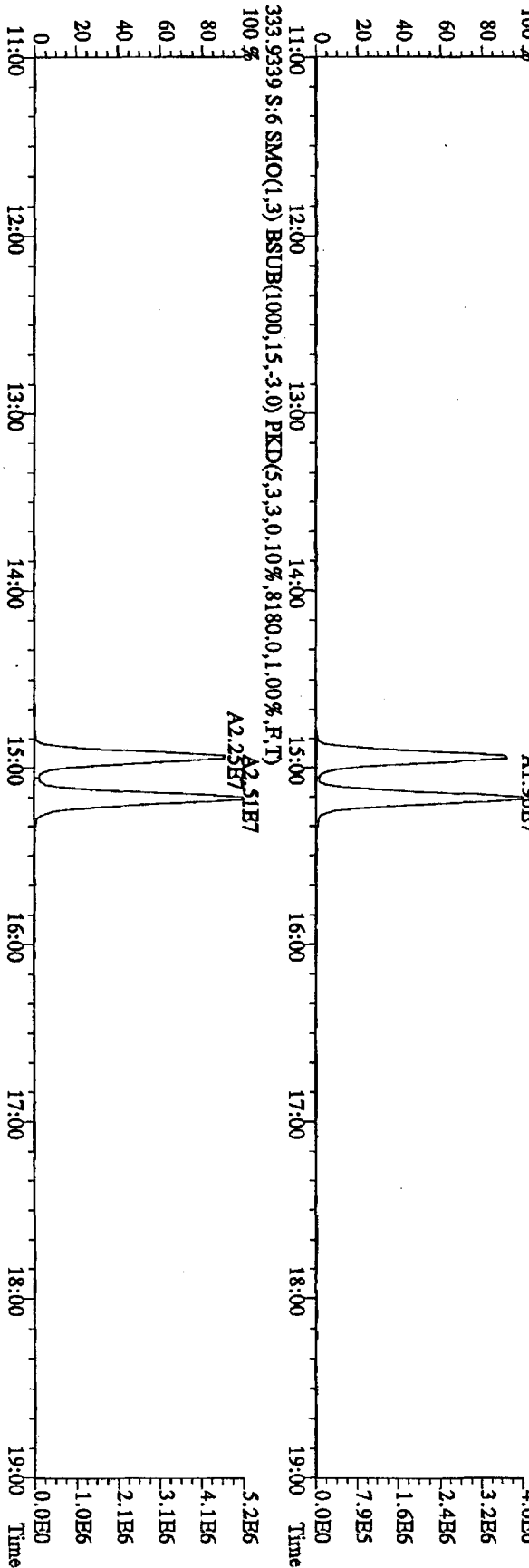
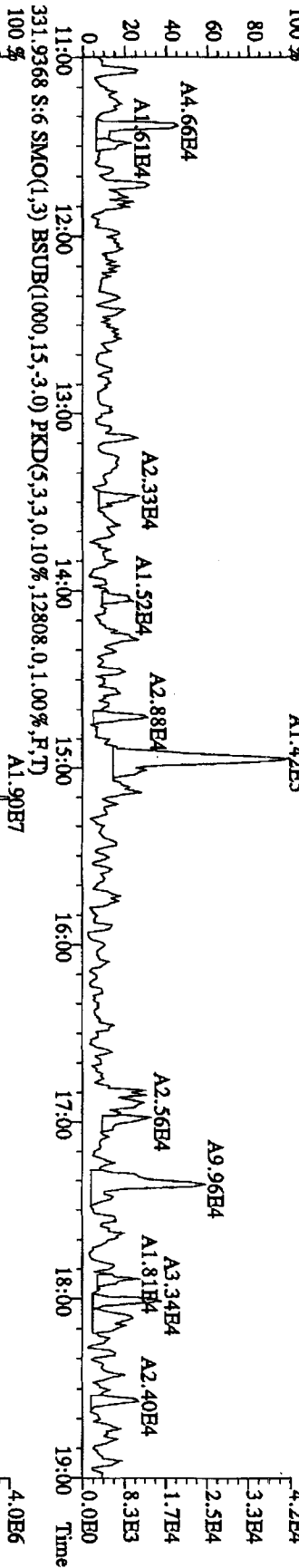
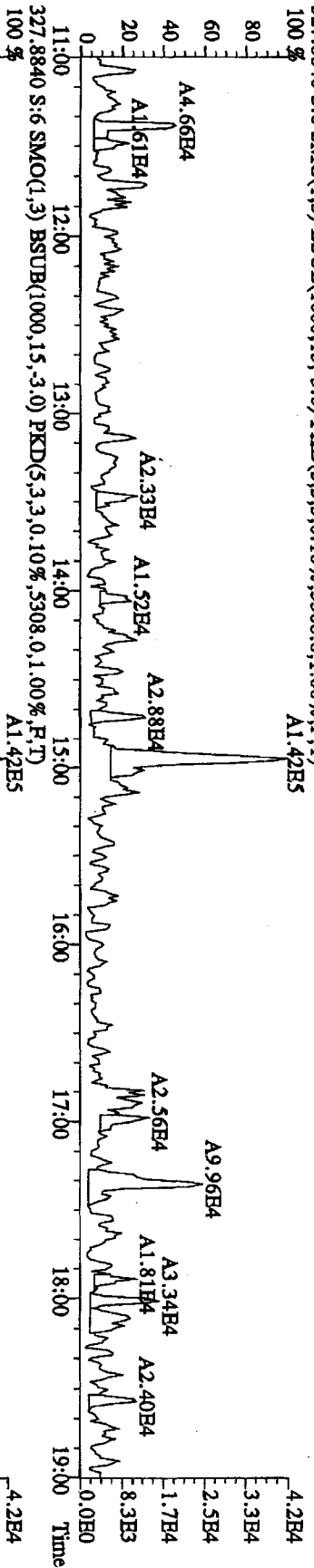
File:26TL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC HI+ Voltage SIR 70SE
 Sample#6 Text:ST0726A :CS-1 10DYXN342 RI Exp:DB225RHS
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3908.0,1.00%,F,T) 100%



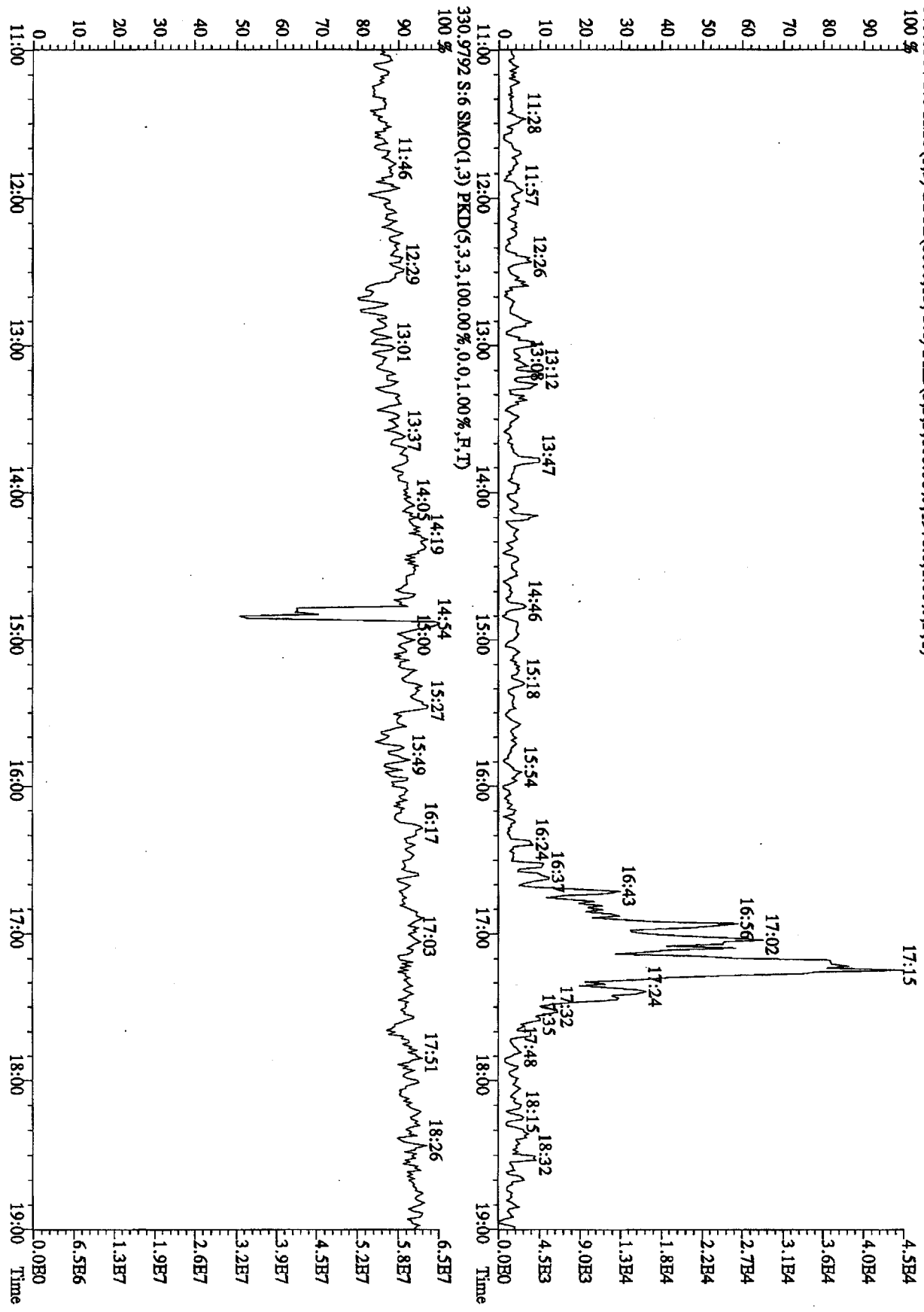
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC HI+ Voltage STR 70SE
 Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3896.0,1.00%,F,T)
 100%



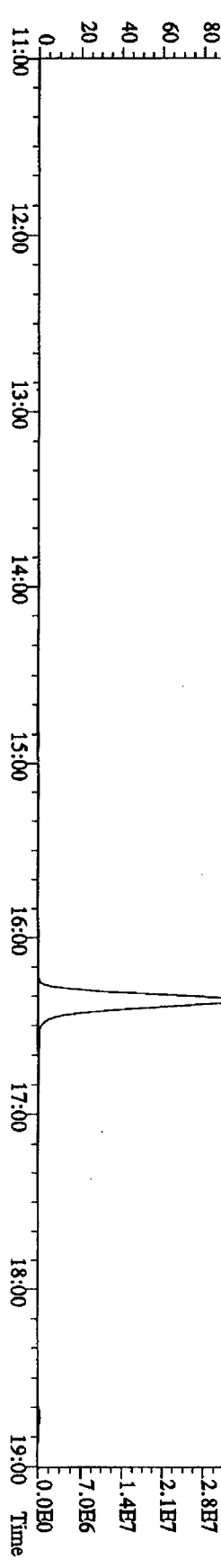
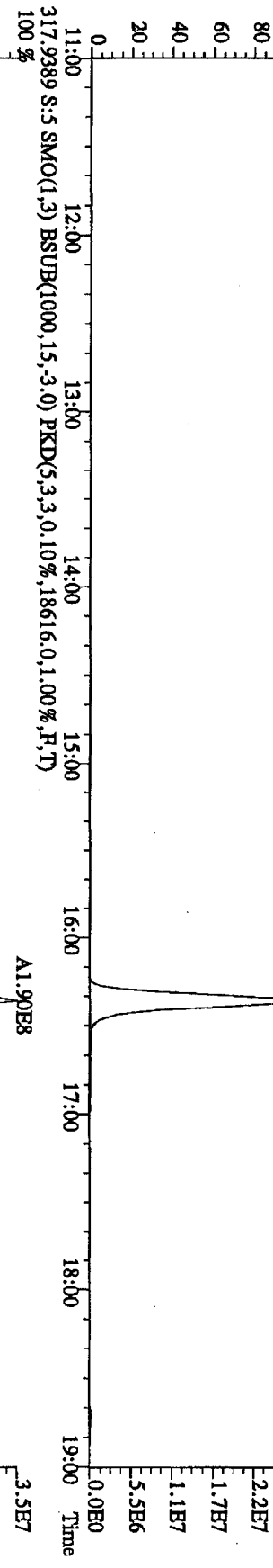
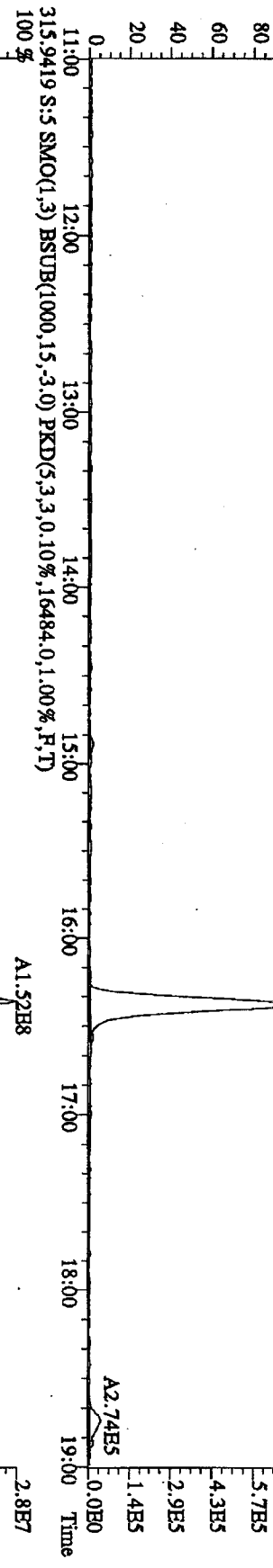
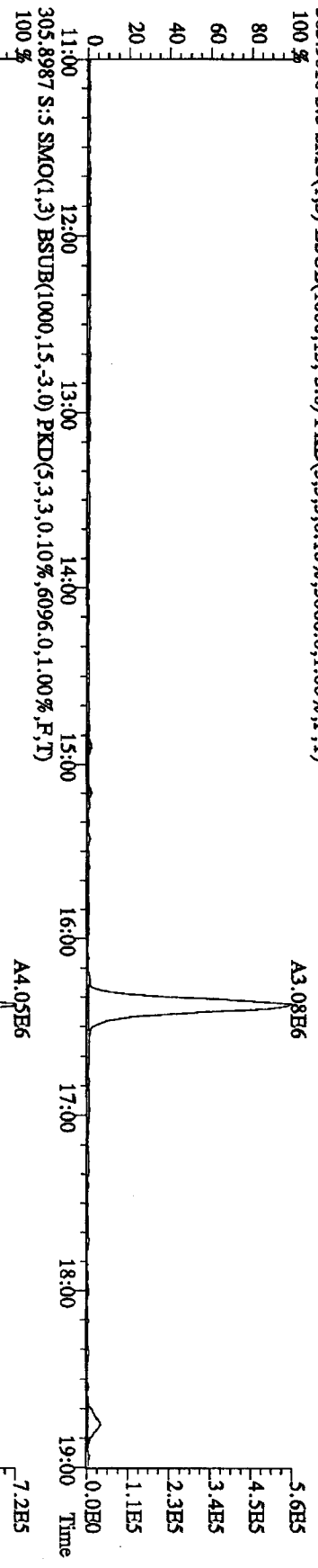
File:261L105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC HI+ Voltage SIR 70SE
 Sample#6 Text:ST0726A :CS-110DXN342 RI Exp:DB225RES
 327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5308,0,1.00%,F,T) A1.42E5



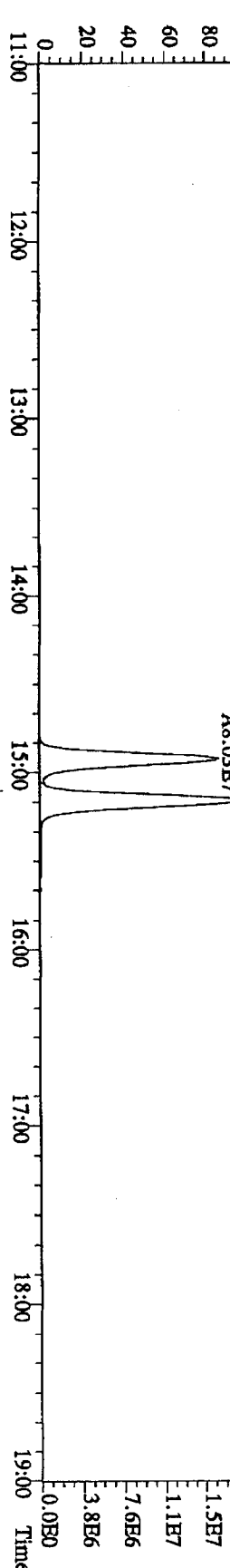
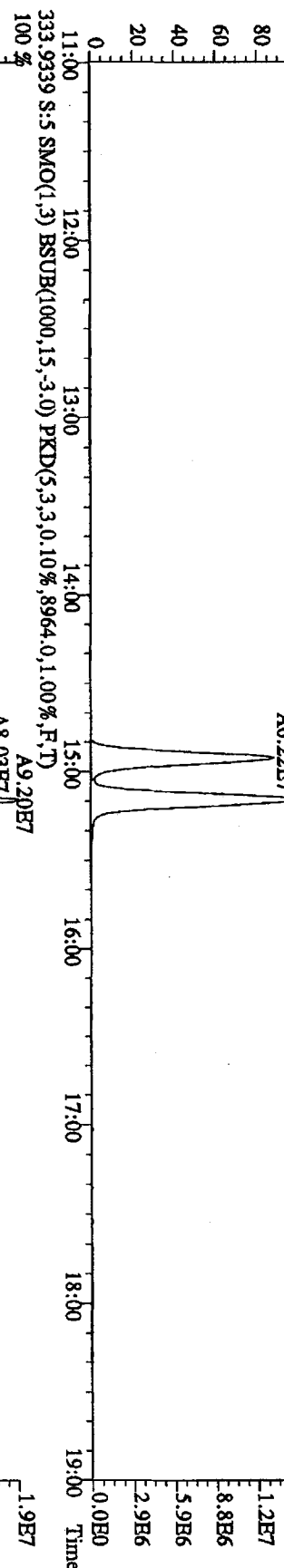
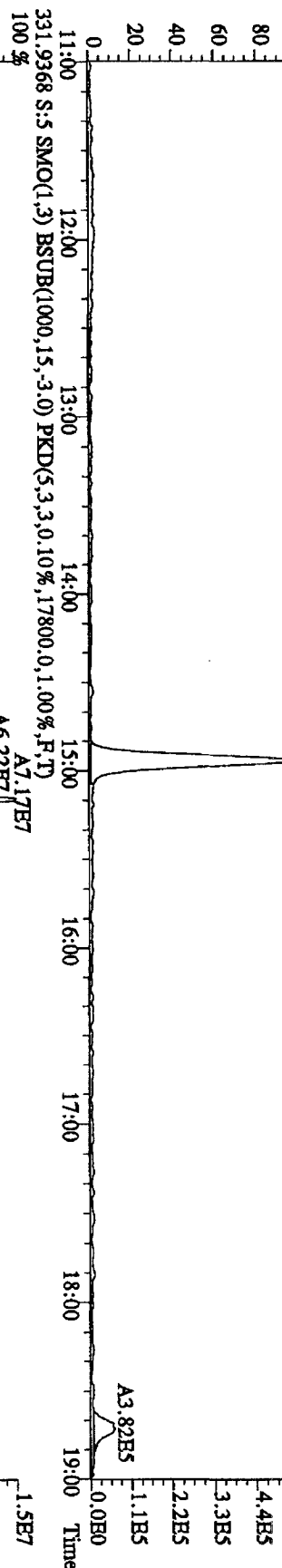
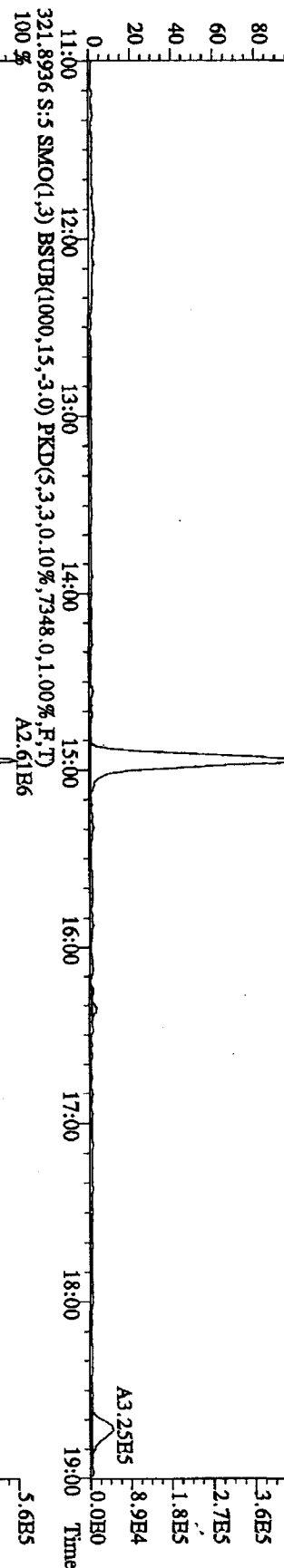
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST0726A :CS-1 10DXN342 RI Exp: DB225RES
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1.976,0.1,0.00%,F,T)



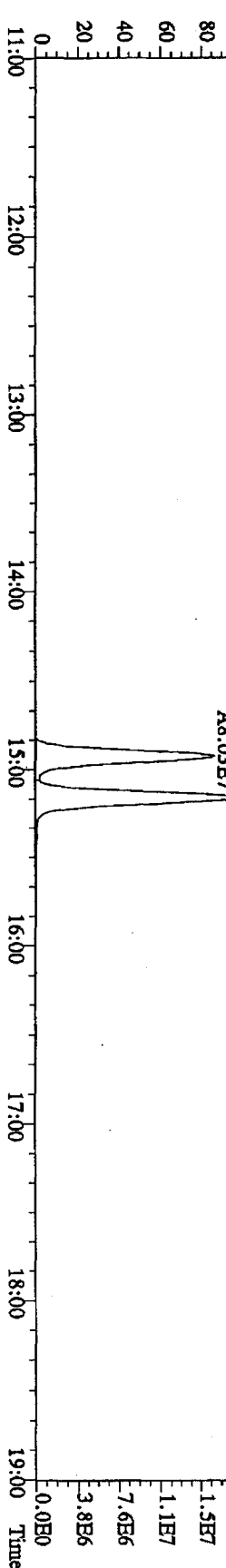
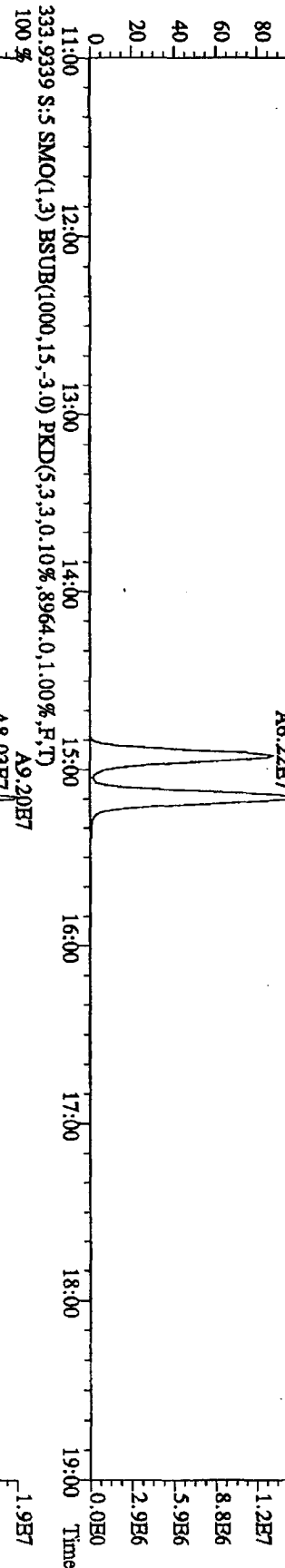
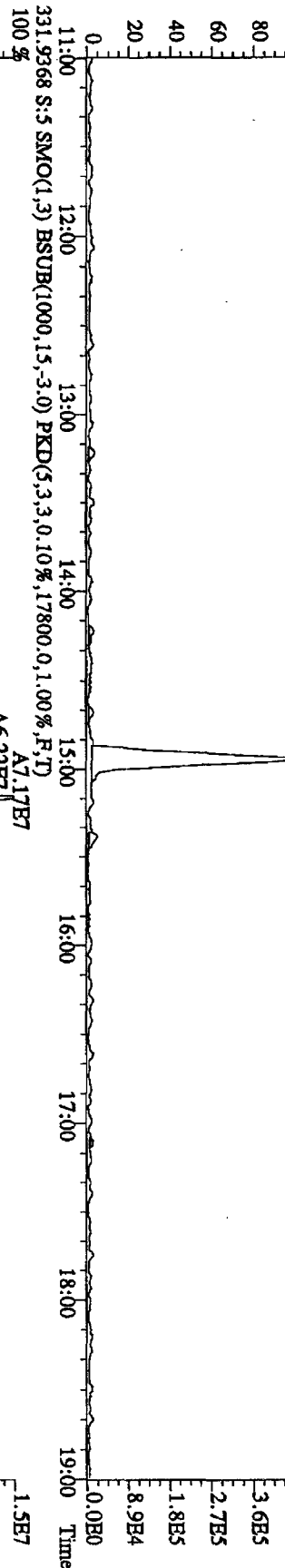
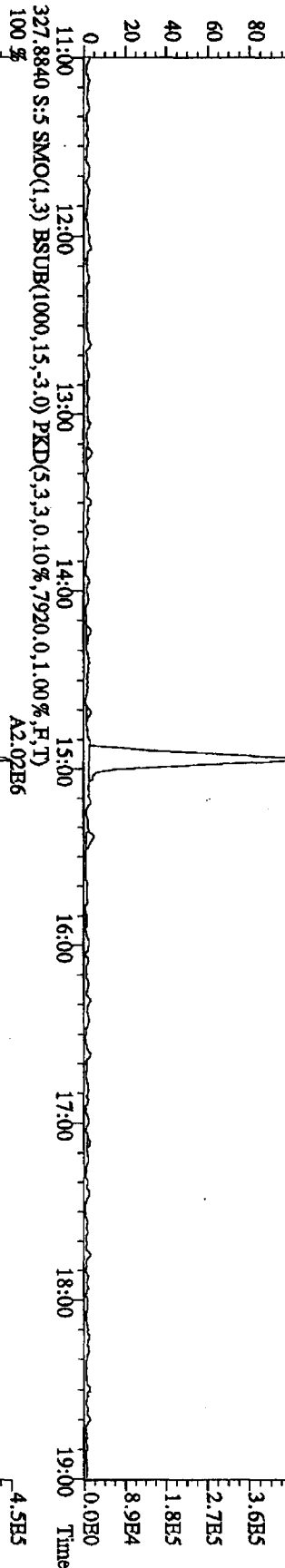
File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SB
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5060,0,1,00%,F,T)
 100 %



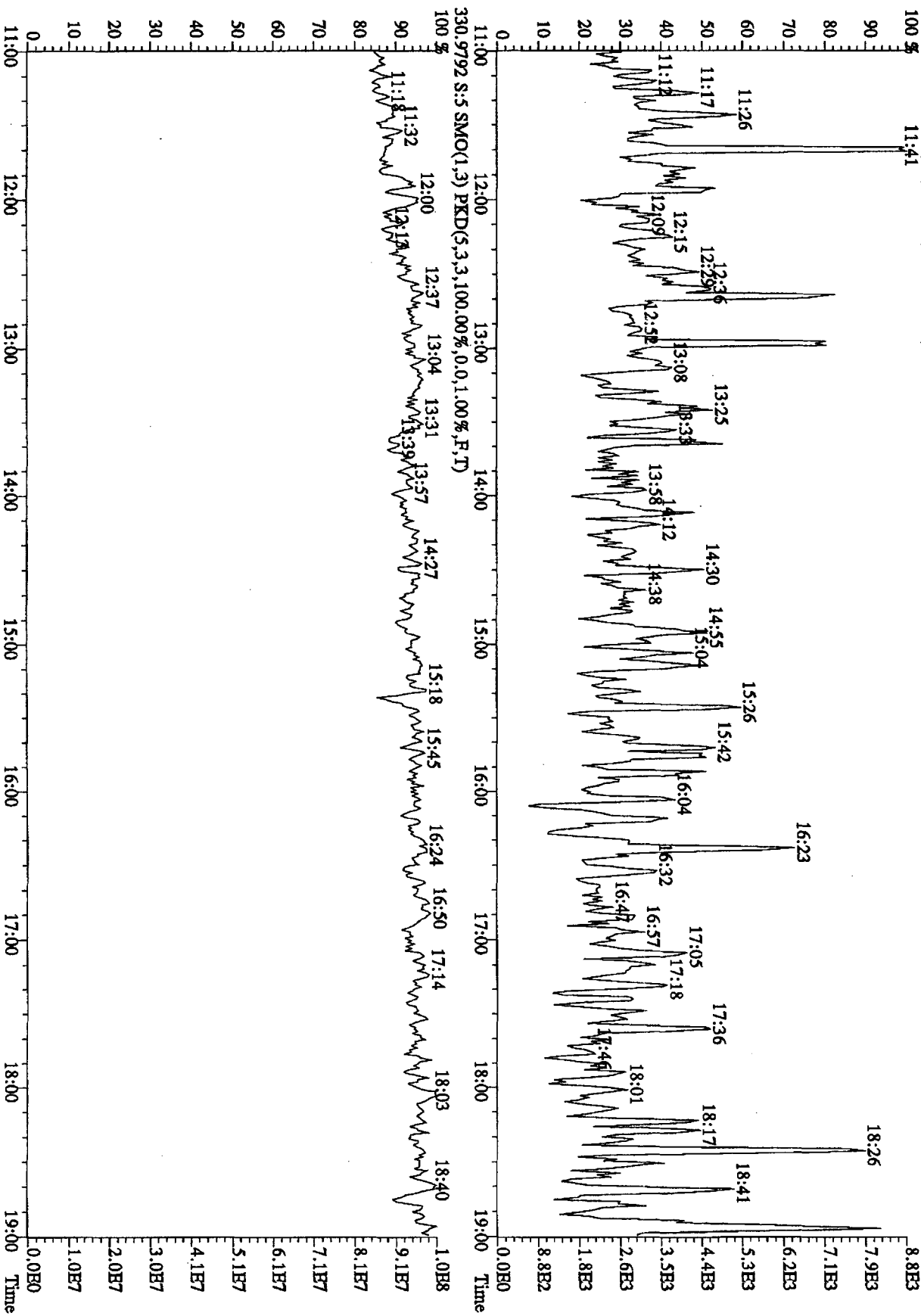
File: 26L105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DB225RES
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5400.0,1.00%,F,T)
 100%



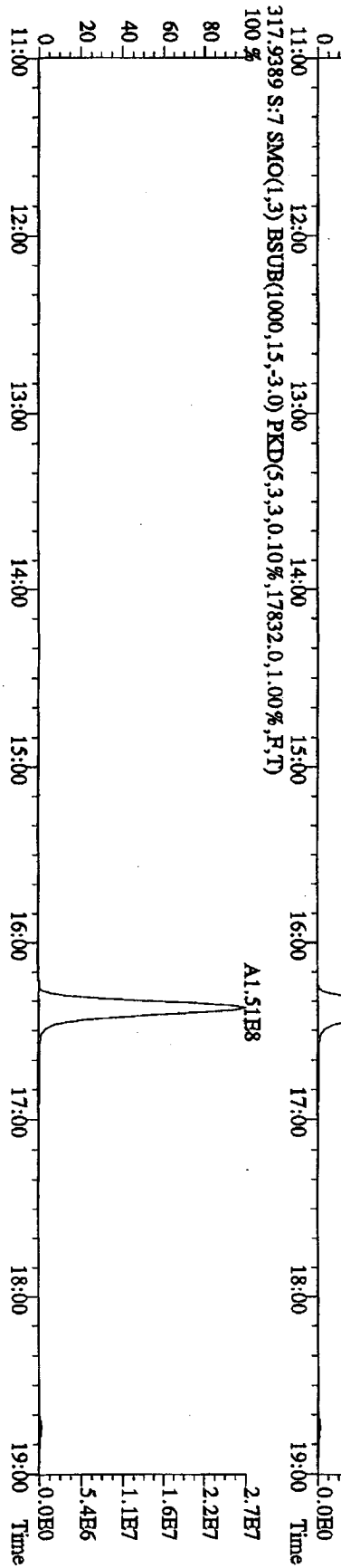
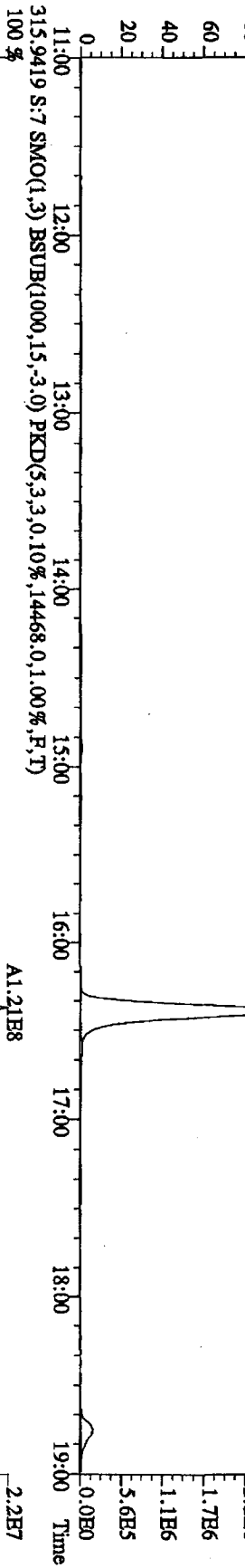
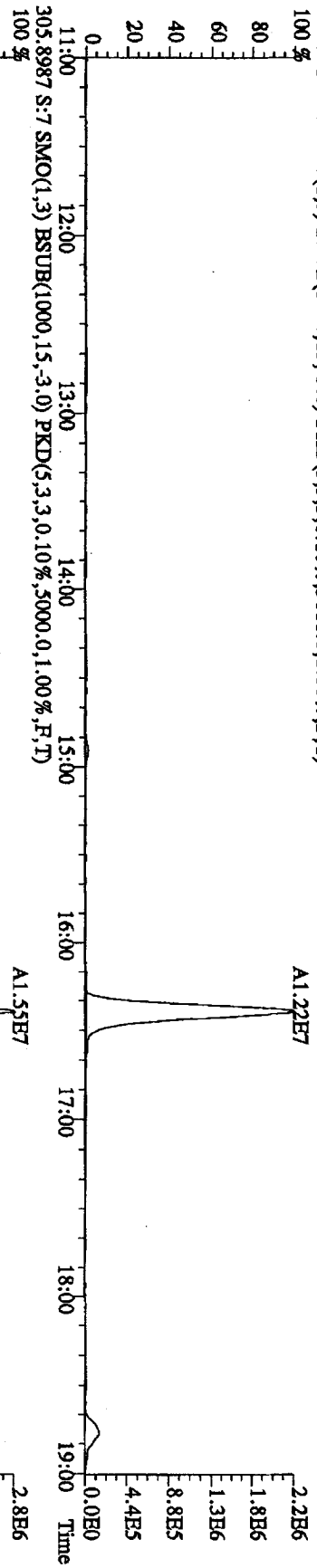
File:26JUL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC HI+ Voltage SIR 70SB
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RBS
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7920,0,1,00%,F,T)
 100 % A2.02B6



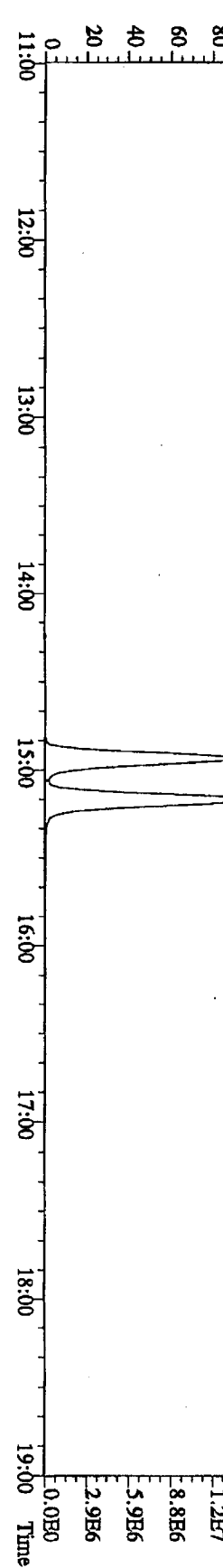
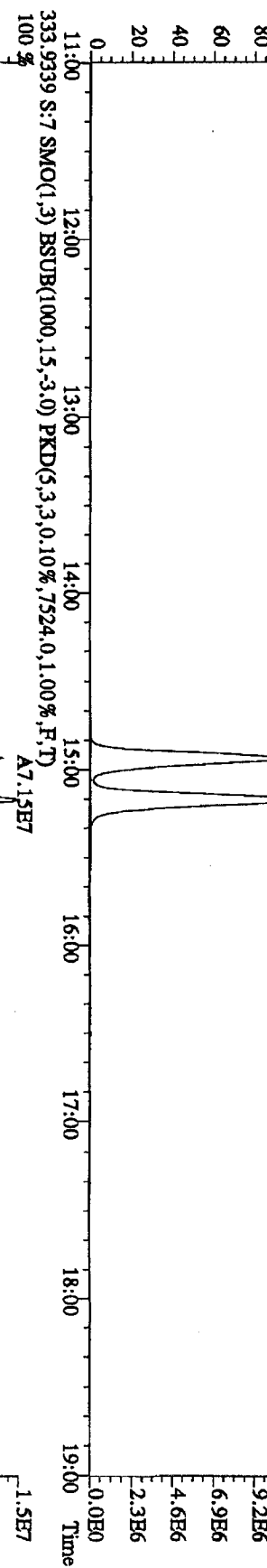
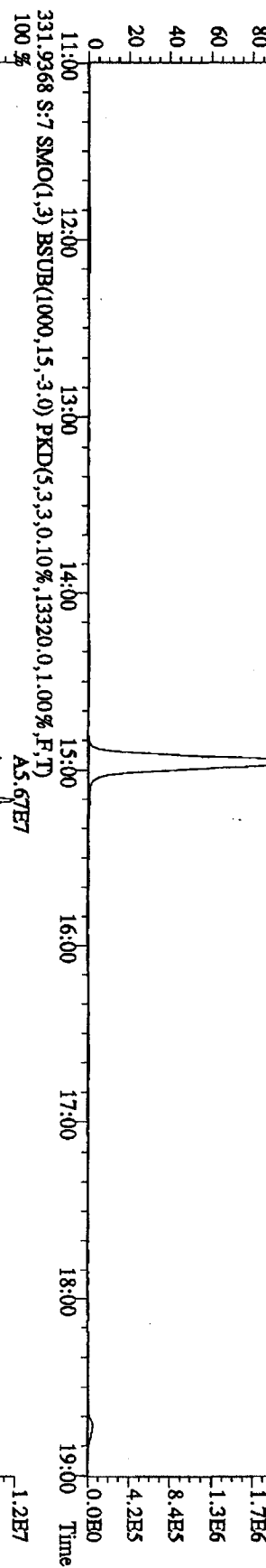
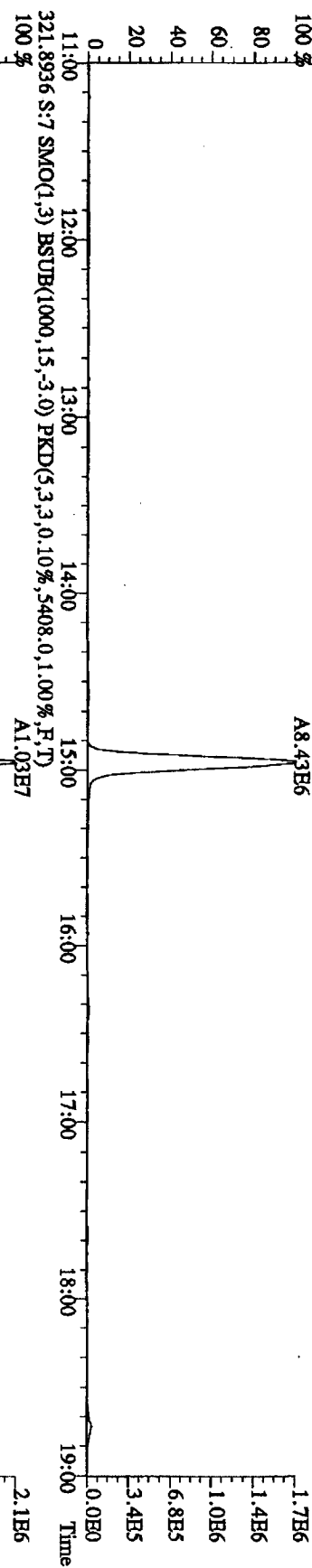
File: 26JUL105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC HI+ Voltage SIR 70SE
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DB225RHS
 375.8364 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,100,00%,3156,0,1,00%,F,T)
 100 % 11:41



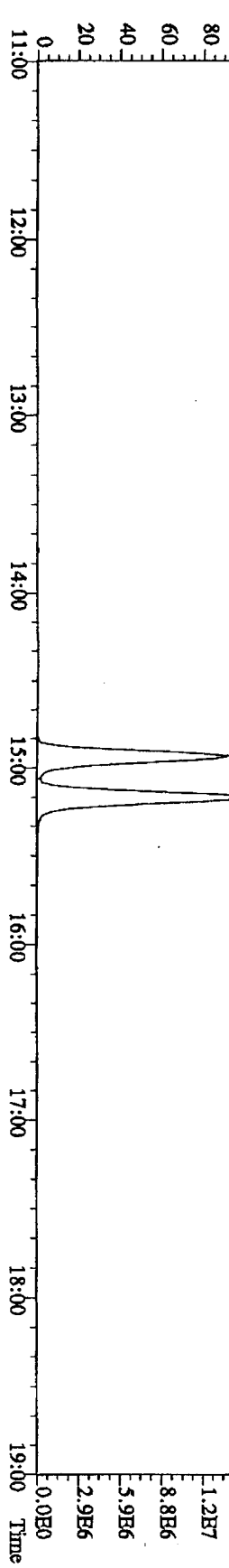
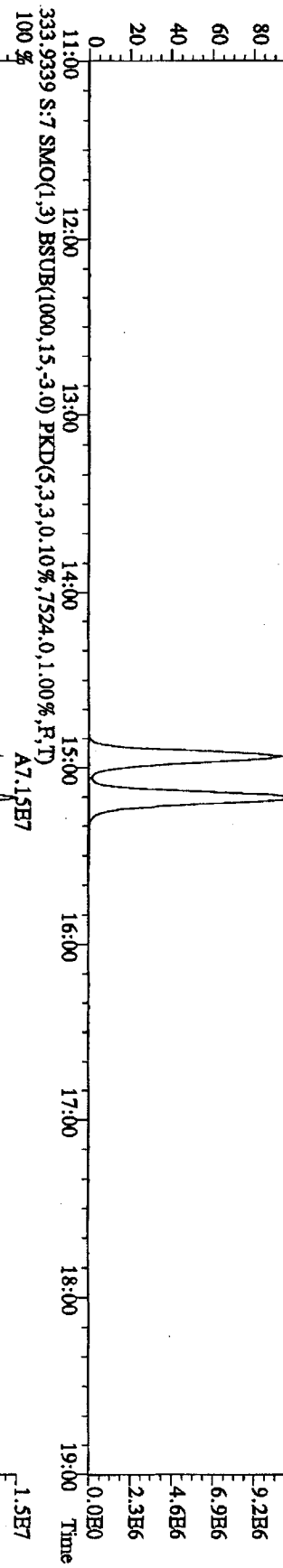
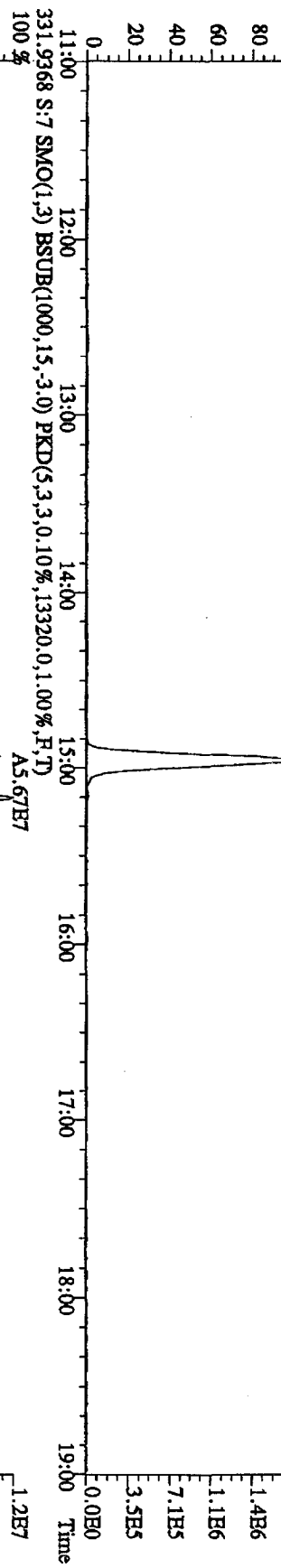
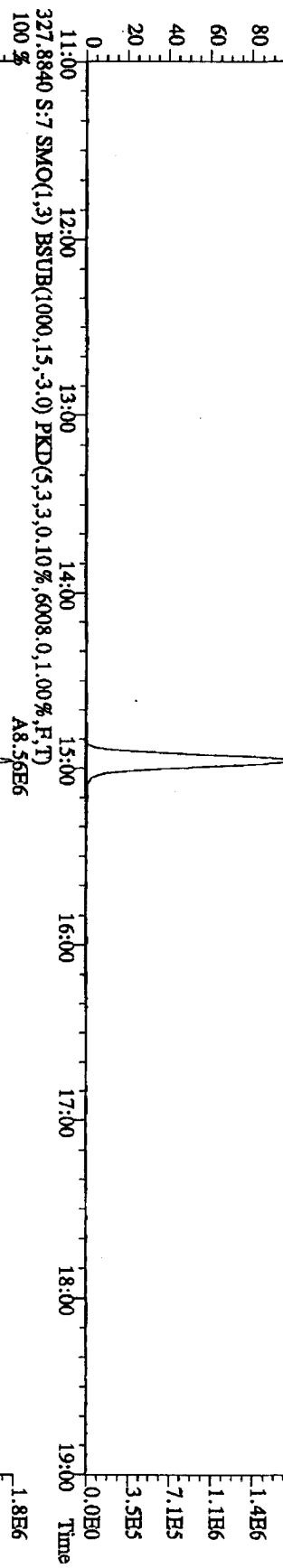
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
 Sample#7 Text: ST0726C :CS-3 10DXN36 Exp: DB225RES
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)



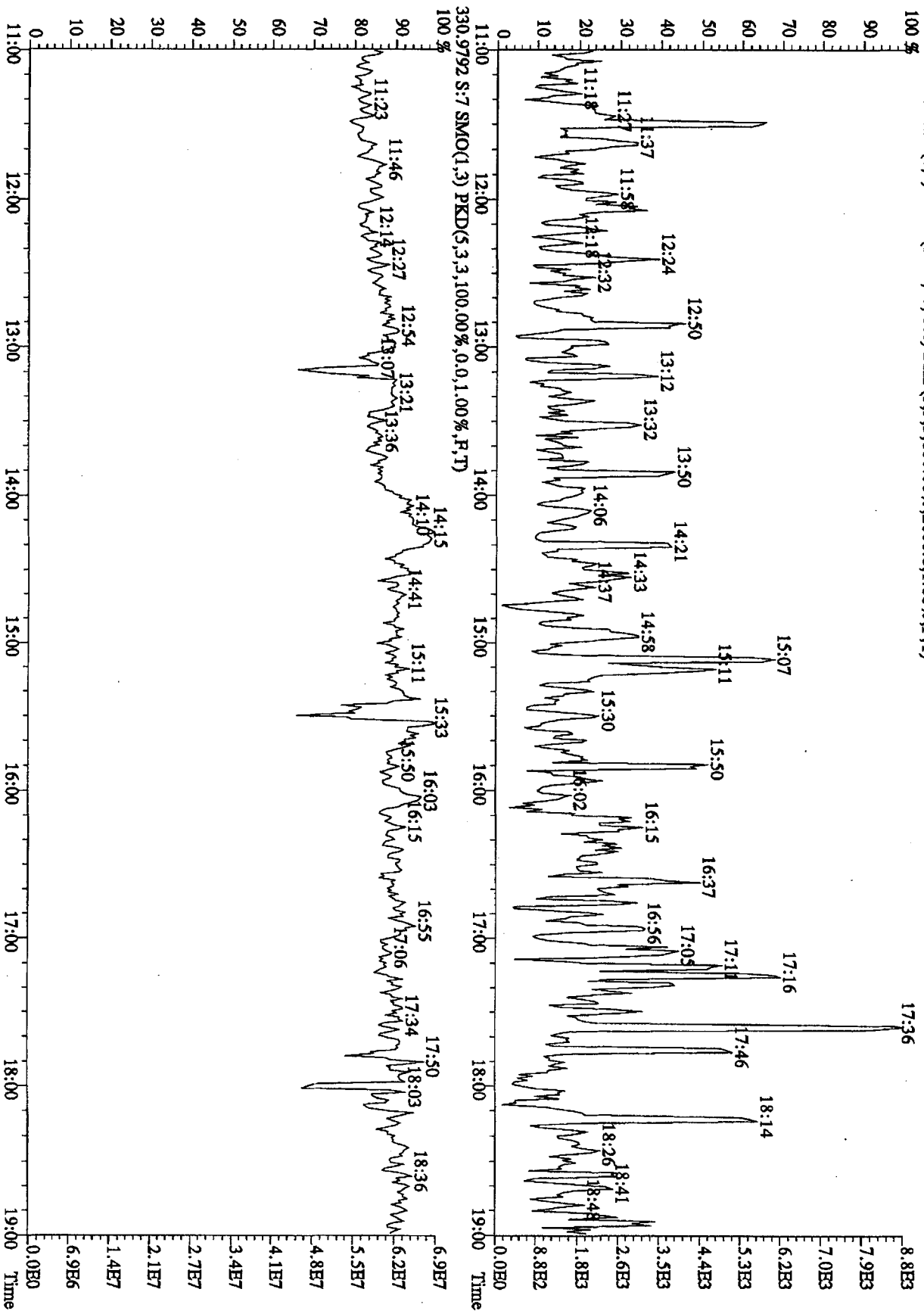
File:201105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC HI+ Voltage SIR 70SE
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RBS
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4208.0,1.00%,F,T)
 100 % A8.43E6



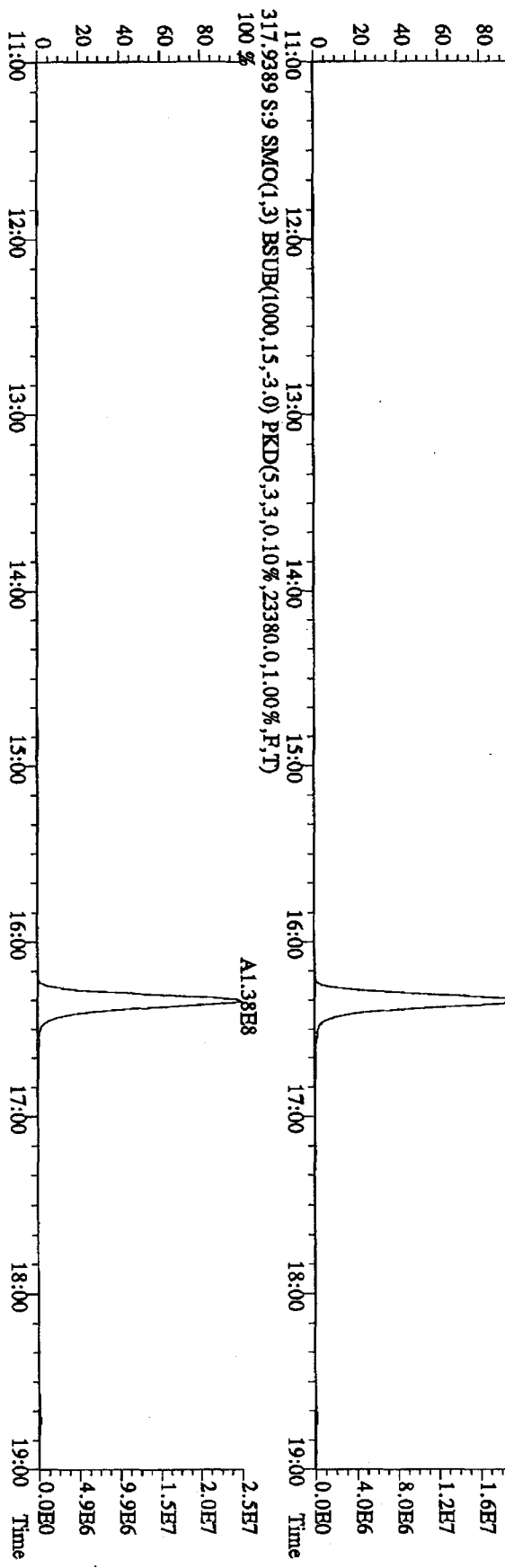
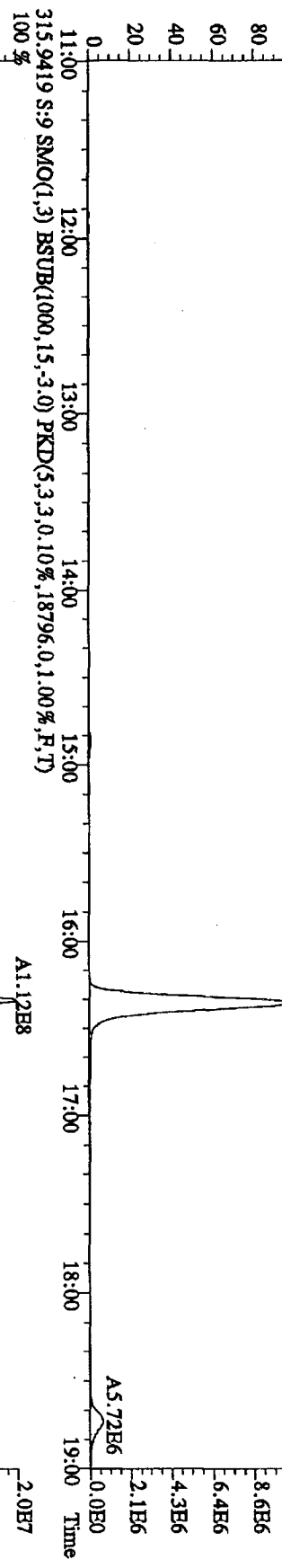
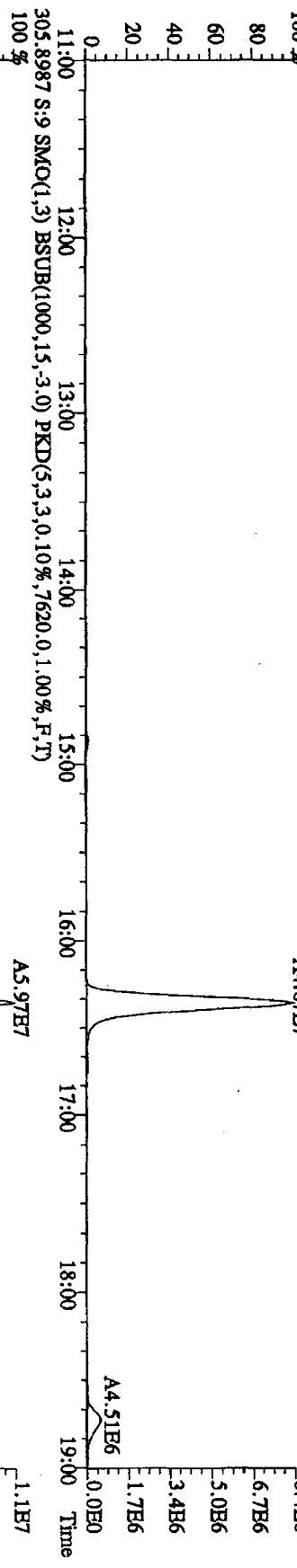
File:26JUL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RHS
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)
 100% A8.56E6



File: 26JUL10SD2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC BI+ Voltage SIR 70SE
 Sample#7 Text: ST0726C :CS-3 10DXN336 Exp: DB225RES
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2000,0,1,00%,F,T)



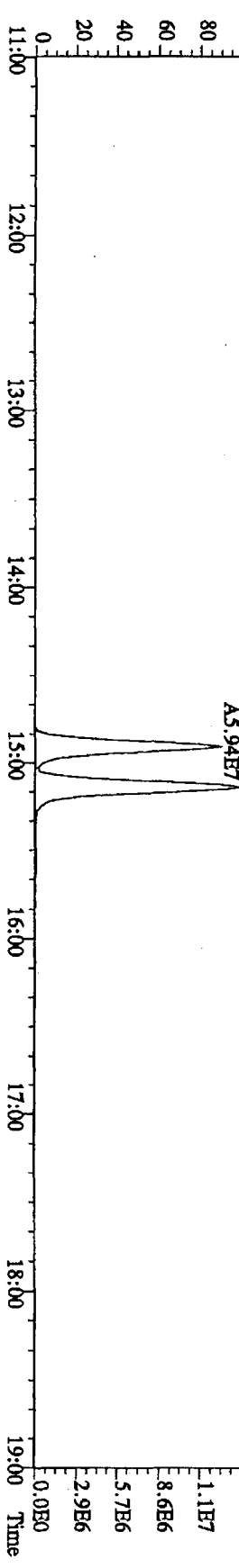
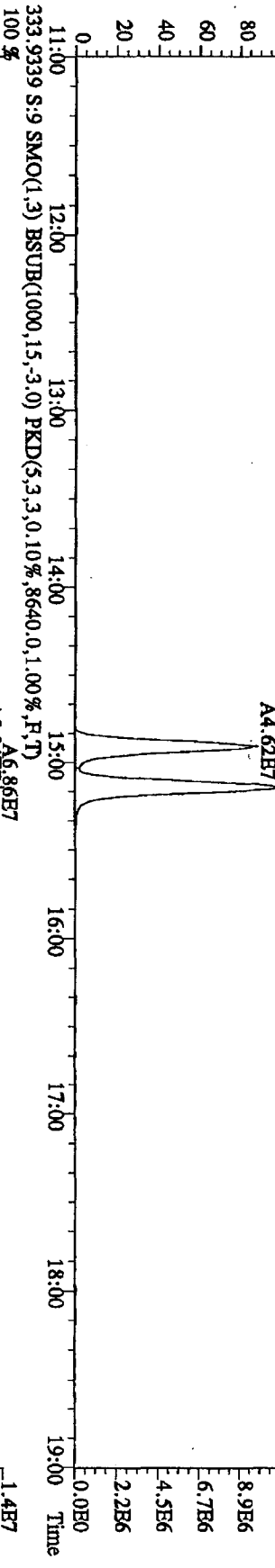
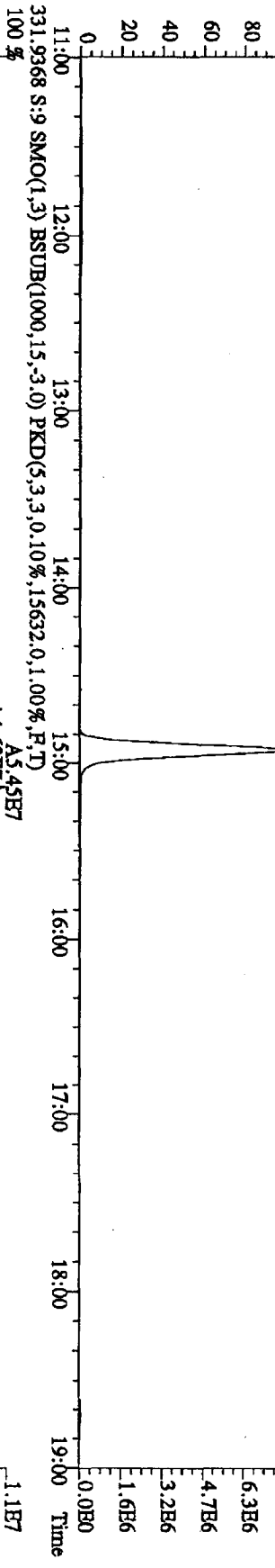
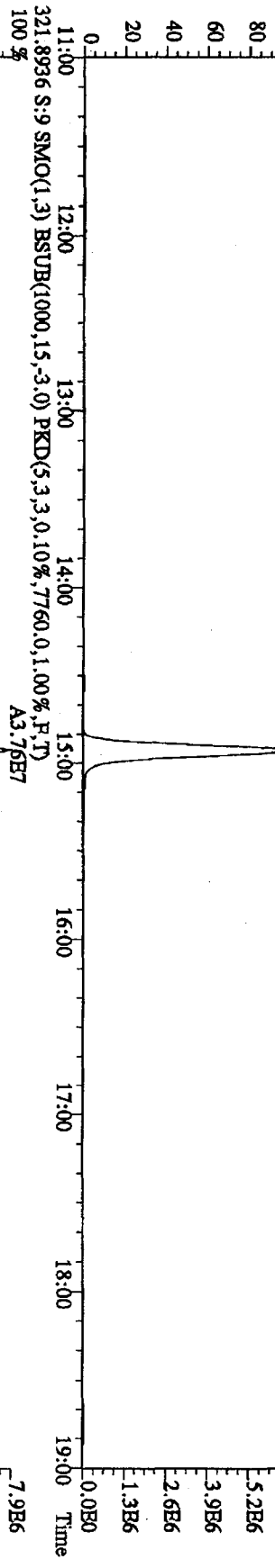
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC HI + Voltage SIR 70SB
 Sample#9 Text: ST0726E :CS-4 10DXN337 Eq: DB25RES
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6232.0,1.00%,F,T) 100%



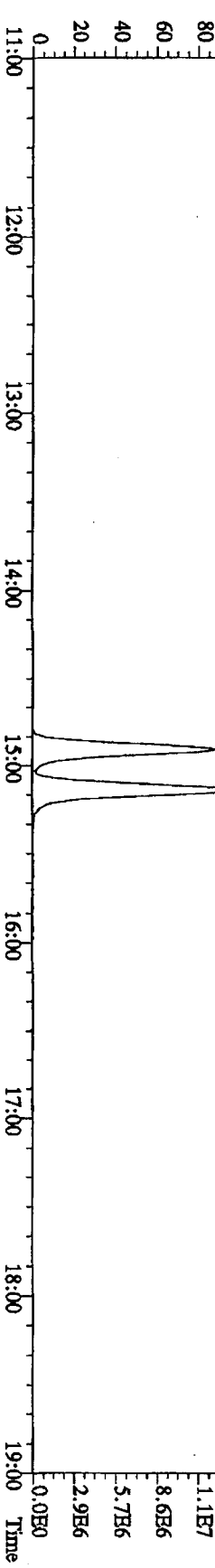
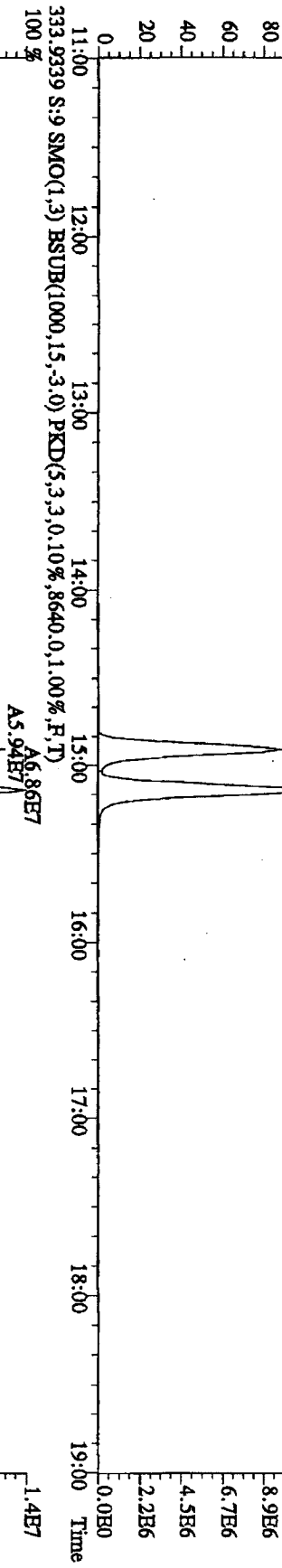
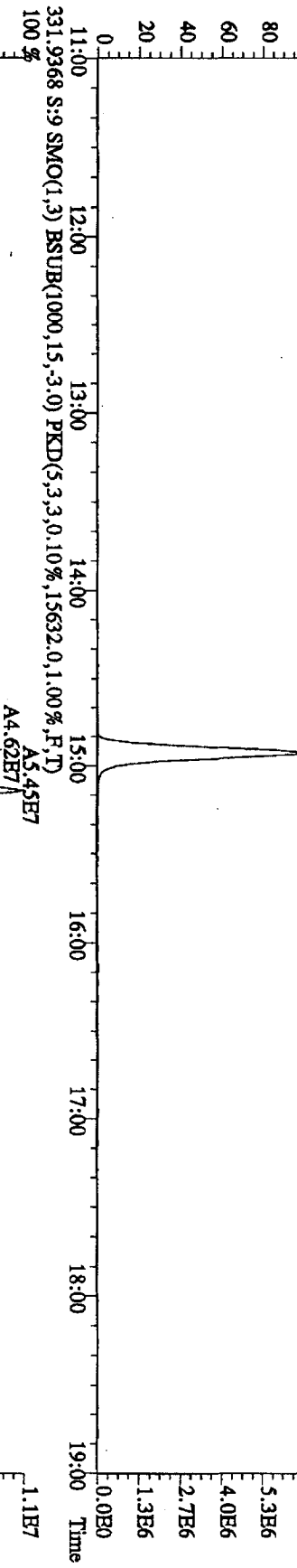
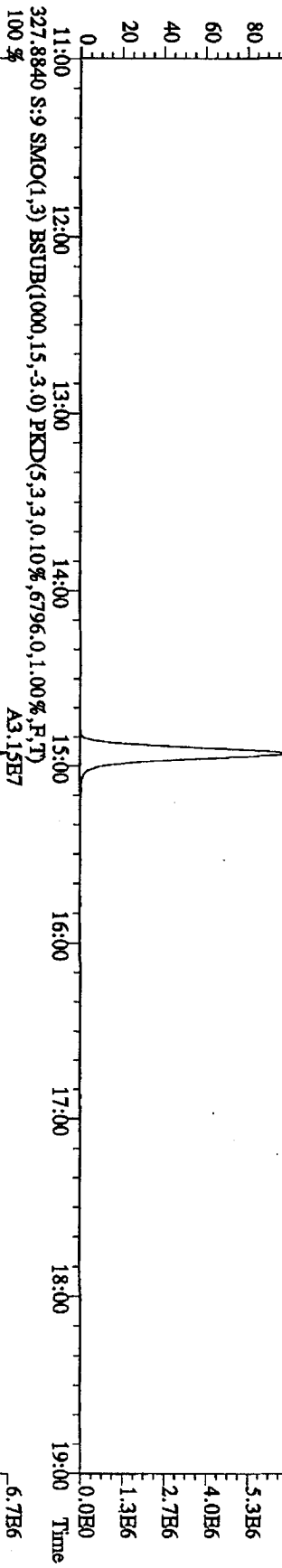
File:261L105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE

Sample#9 Text:STV726E :CS-4 10DXN37 Exp:DB25RES

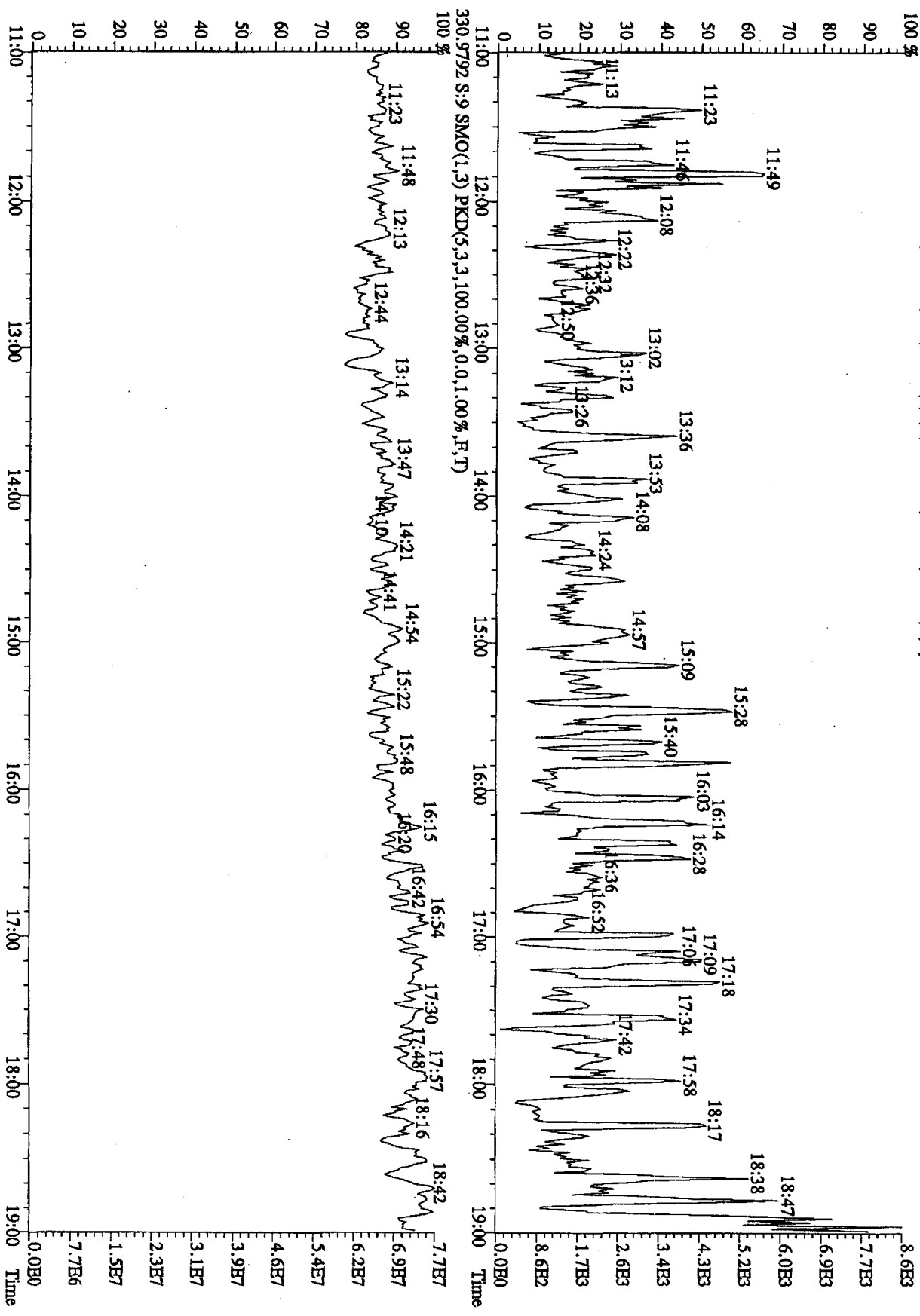
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5792.0,1.00%,F,T) A3.14E7



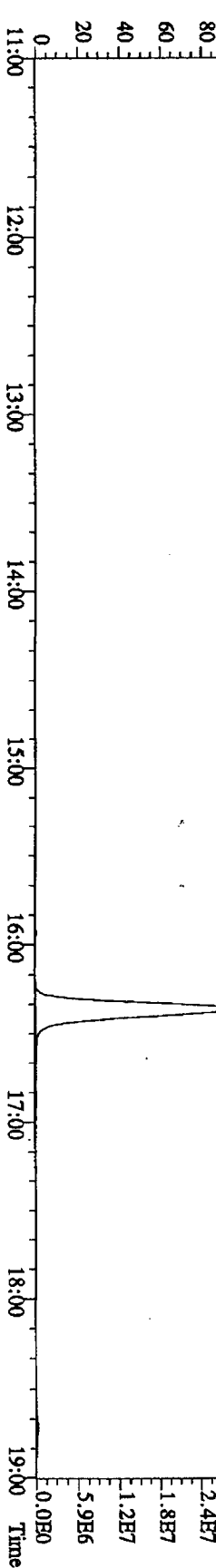
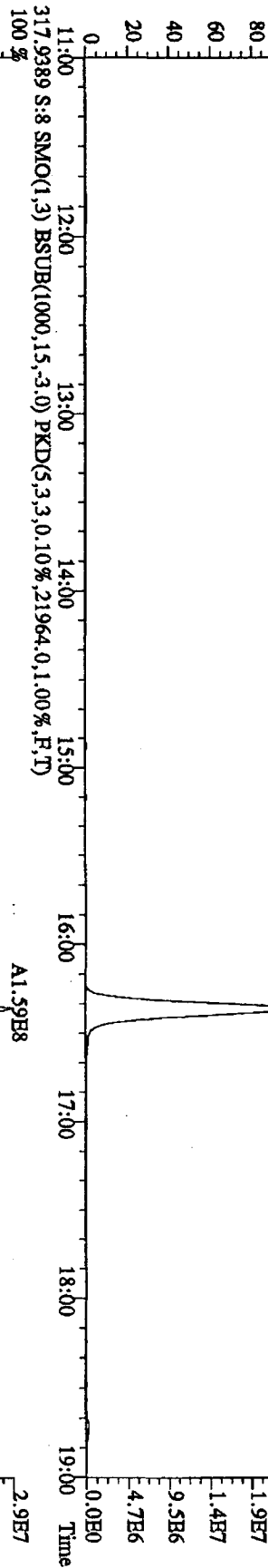
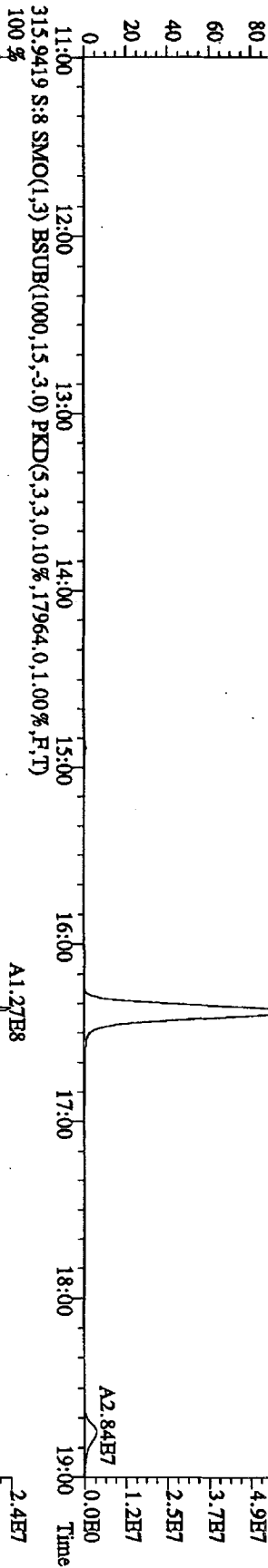
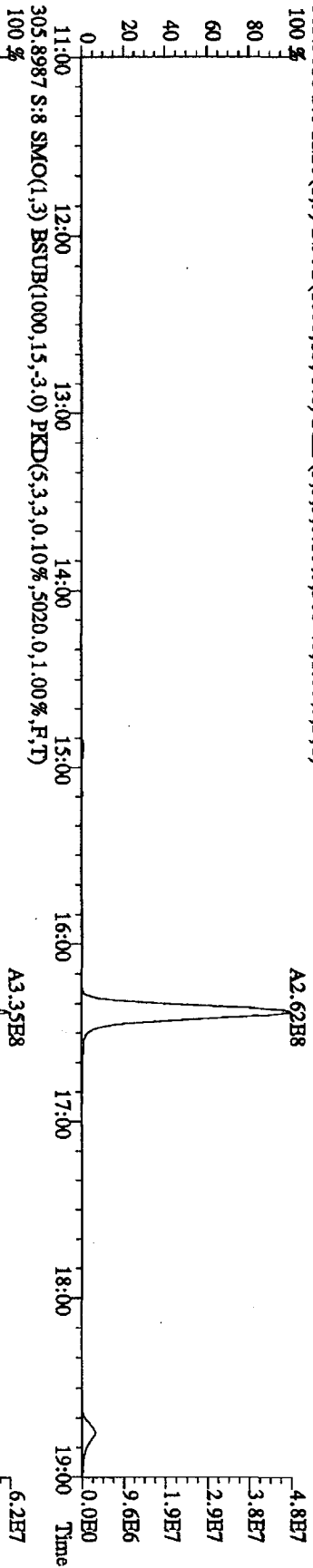
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SFR 70SE
 Sample#9 Text: ST0726E :CS-4 10DXKN37 Exp: DB225RES
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6796,0,1,00%,F,T)
 100% A3.15E7



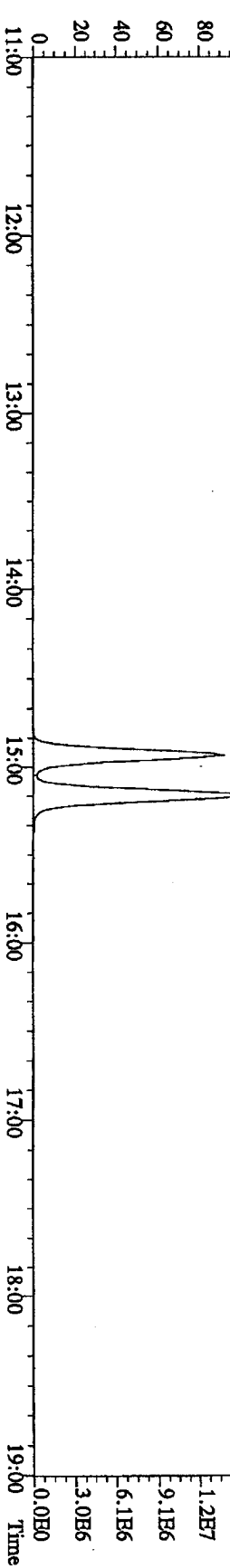
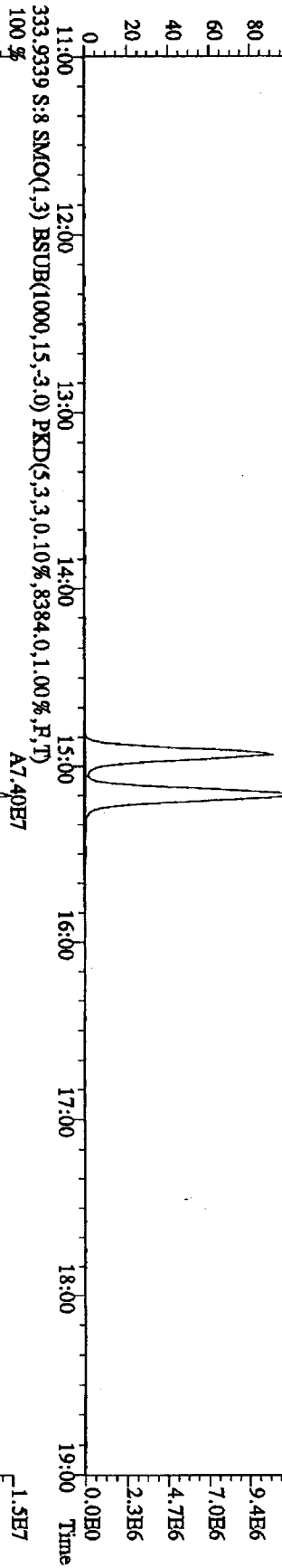
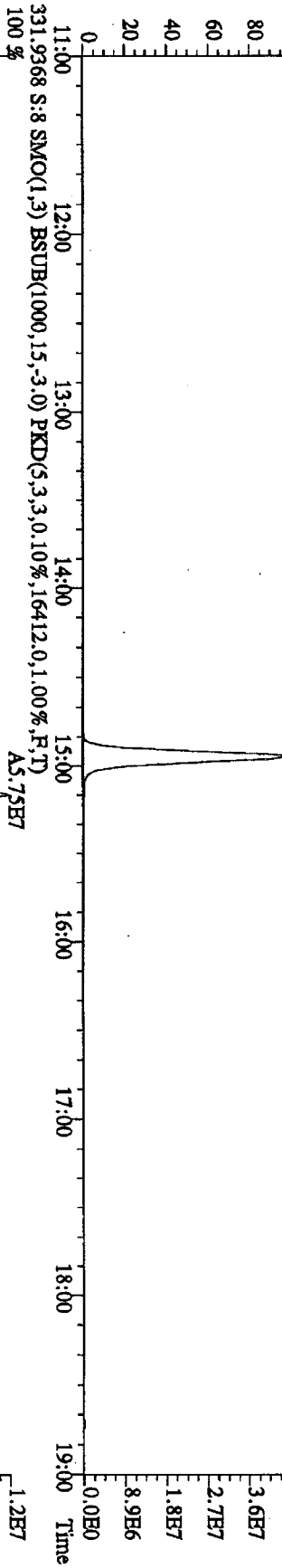
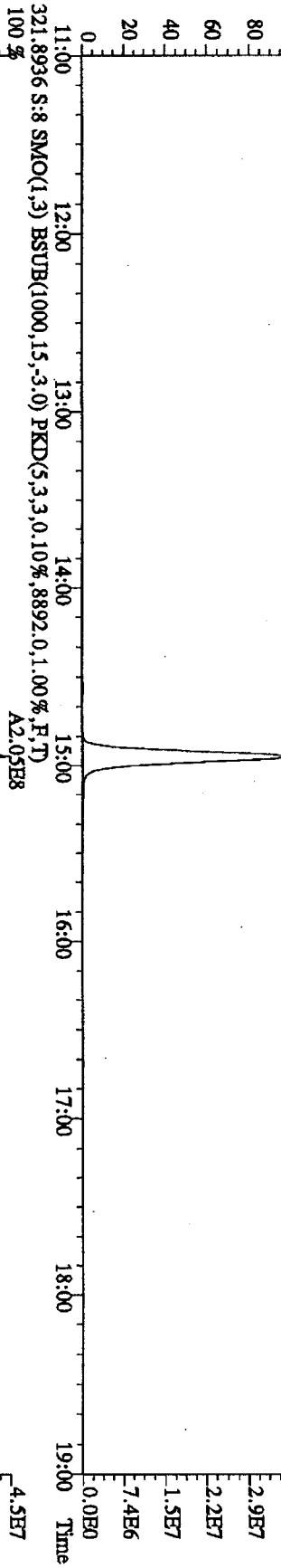
File: 261L10SD2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB225RES
 375.8364 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2008.0,1.00%,F,T)



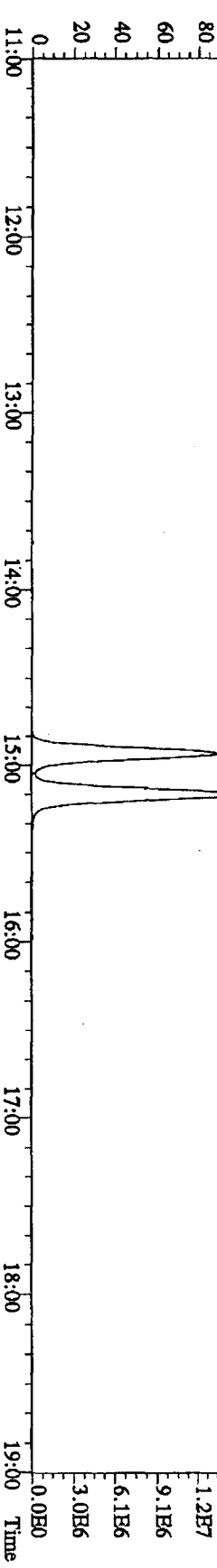
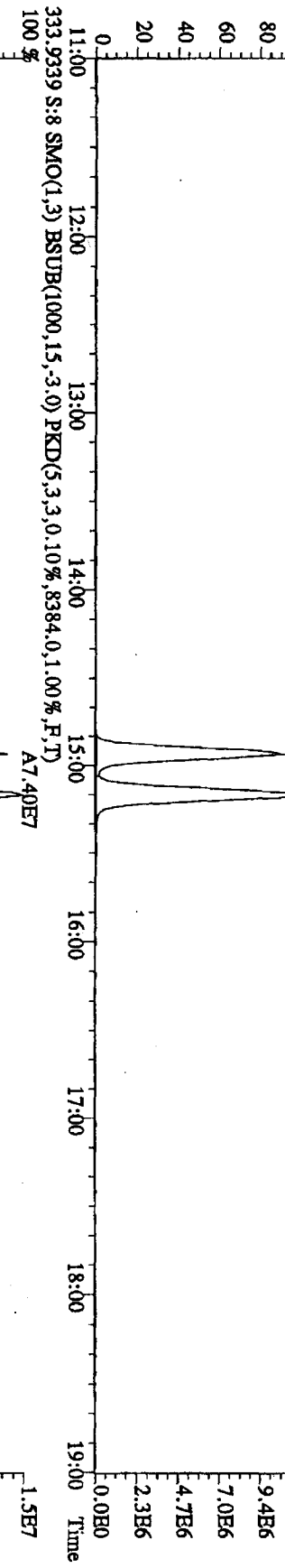
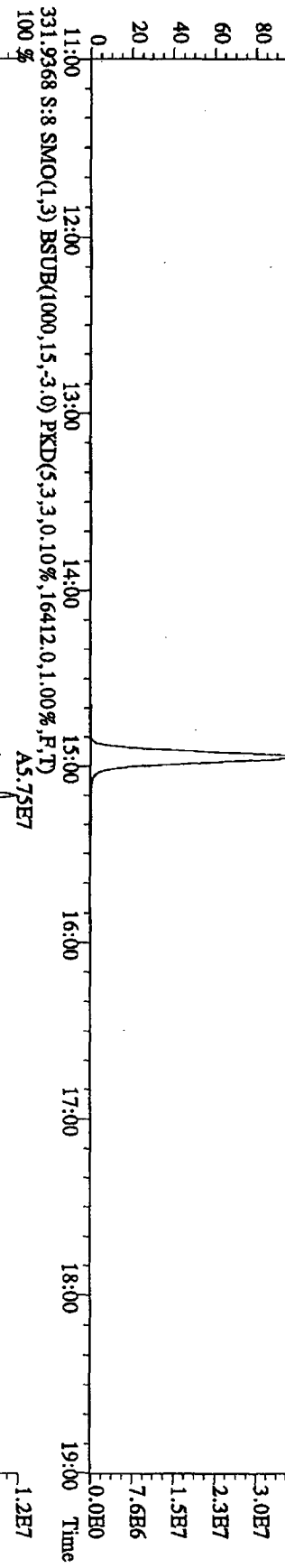
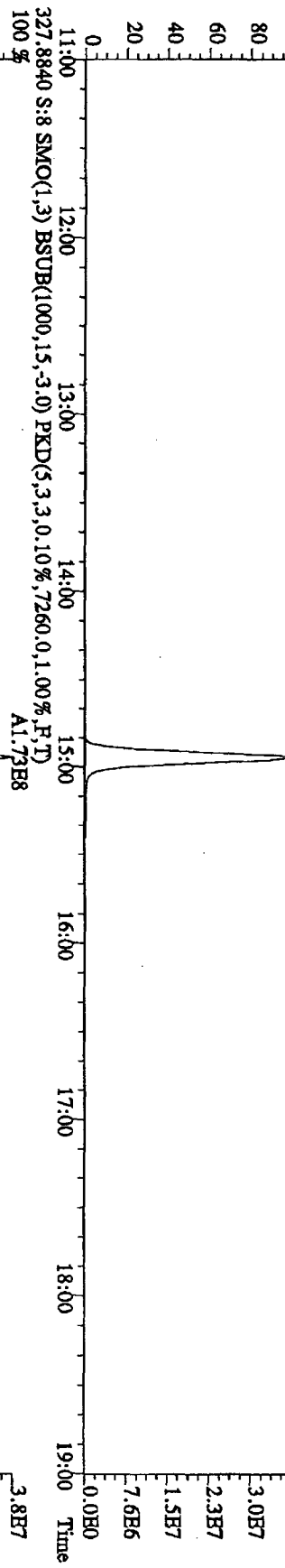
File:26JUL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC HI+ Voltage SIR 70SB
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB23RBS
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880.0,1.00%,F,T)
 100 %



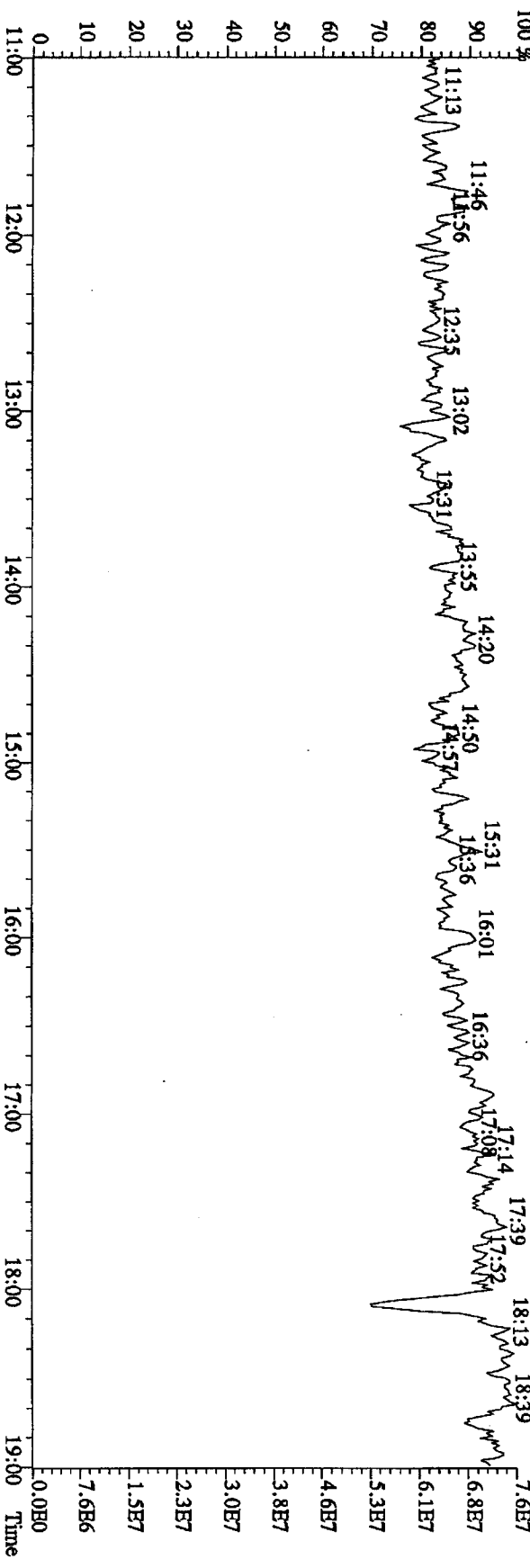
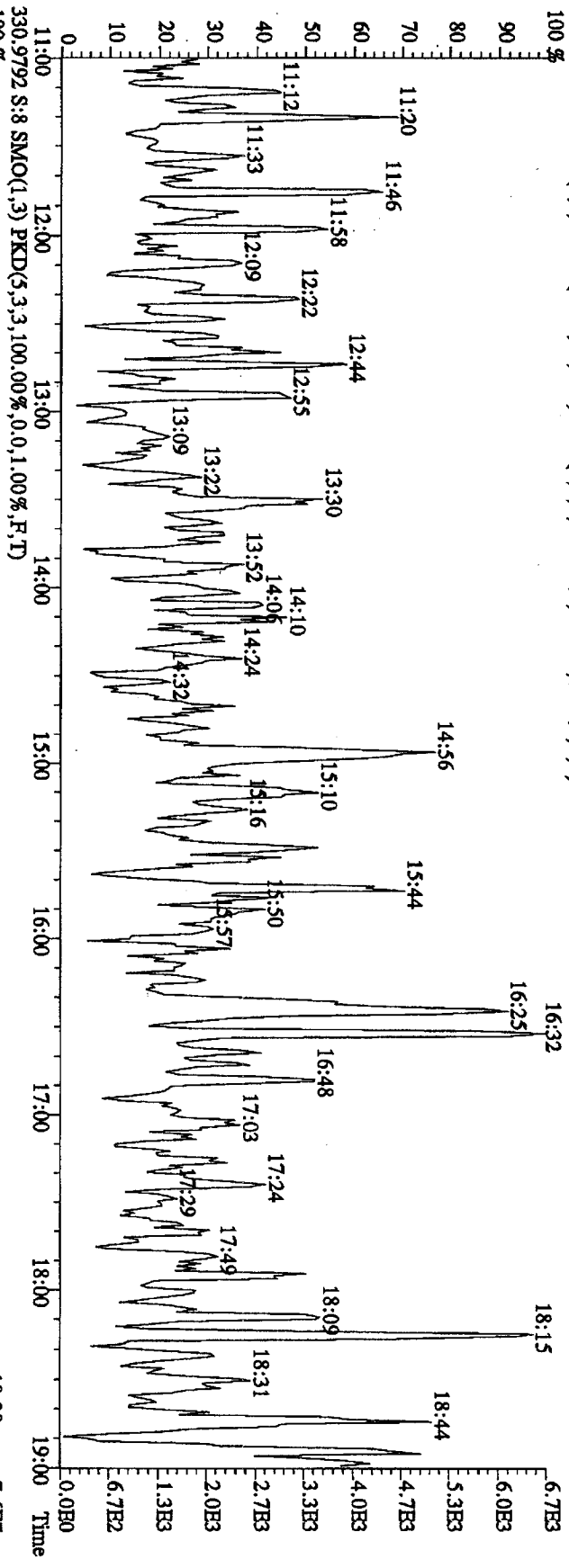
File: 26L105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB225RHS
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6028,0,1,00%,F,T)
 100% A1.68E8



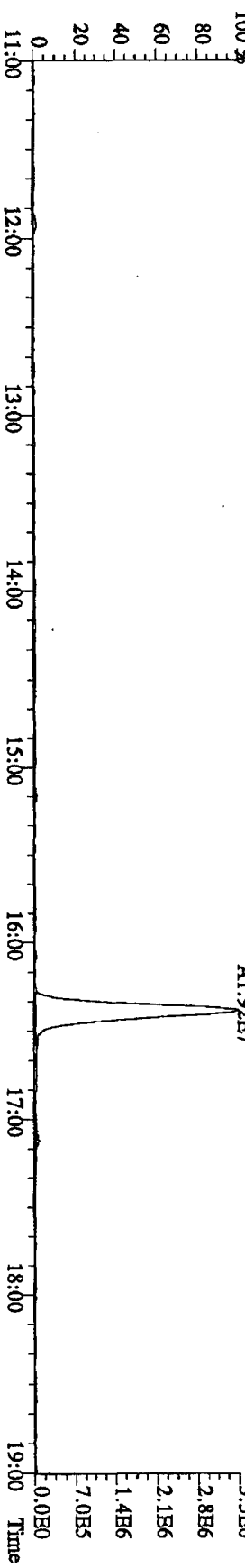
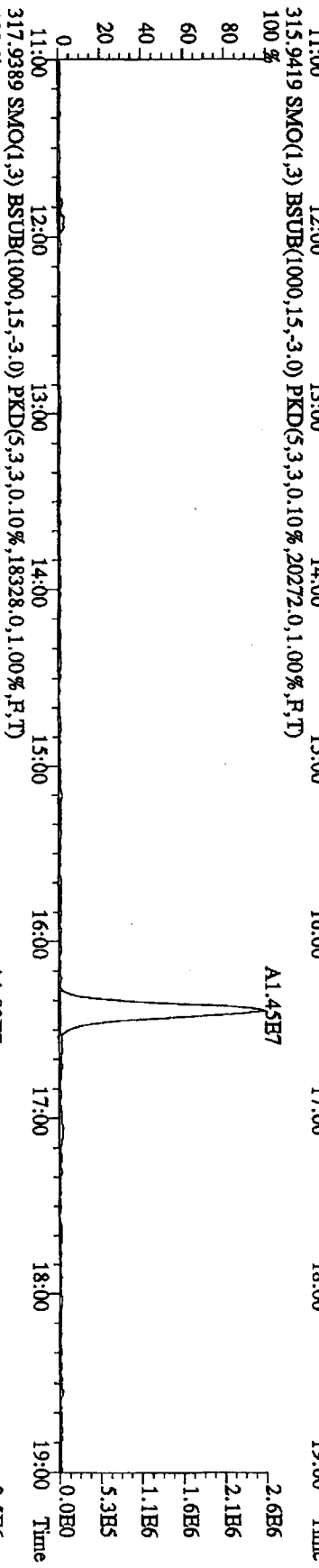
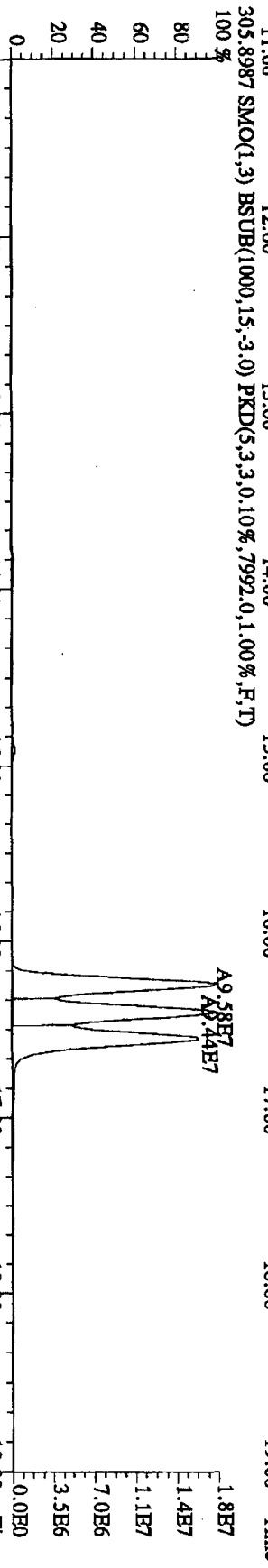
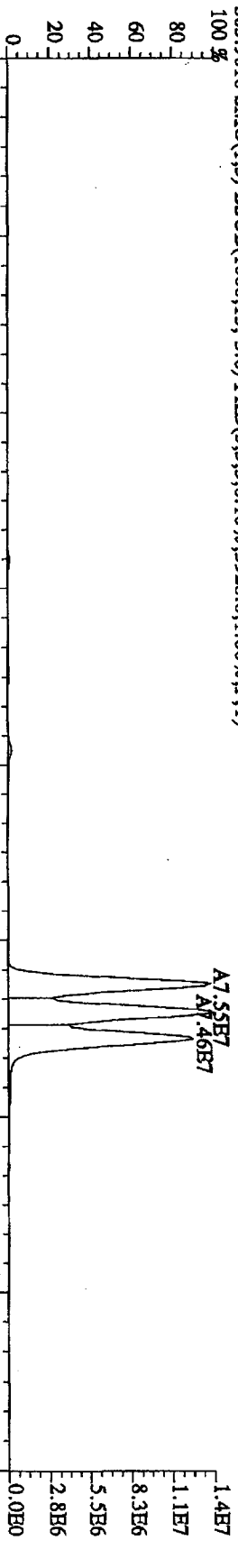
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB225RES
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7260,0,1,00%,F,T)
 100% A1.73E8



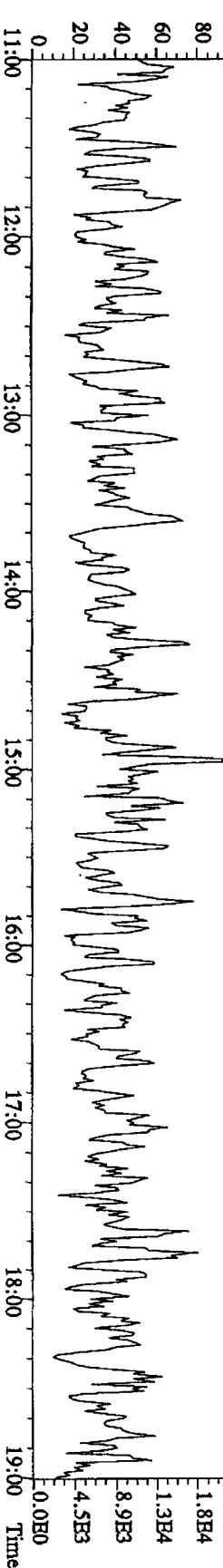
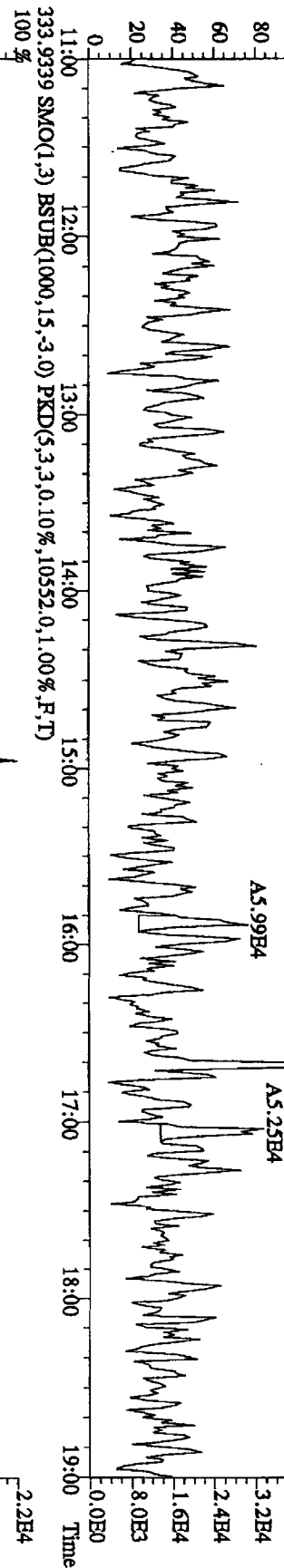
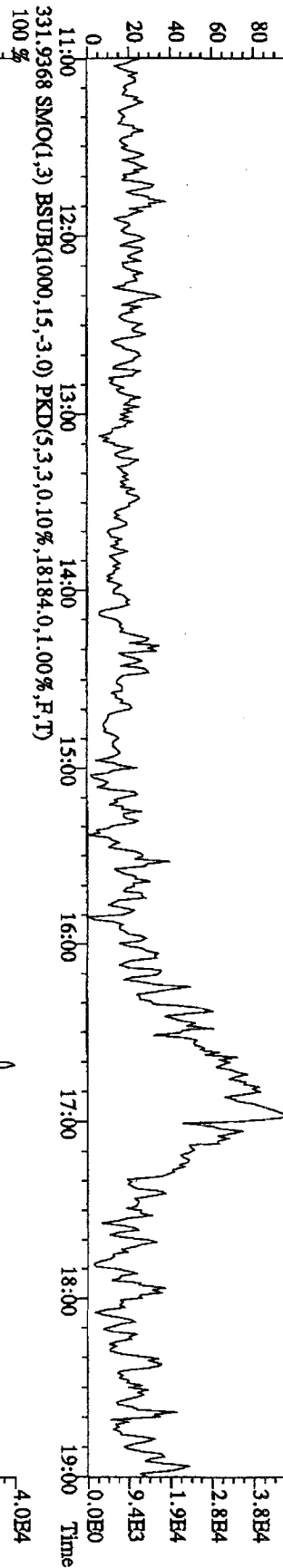
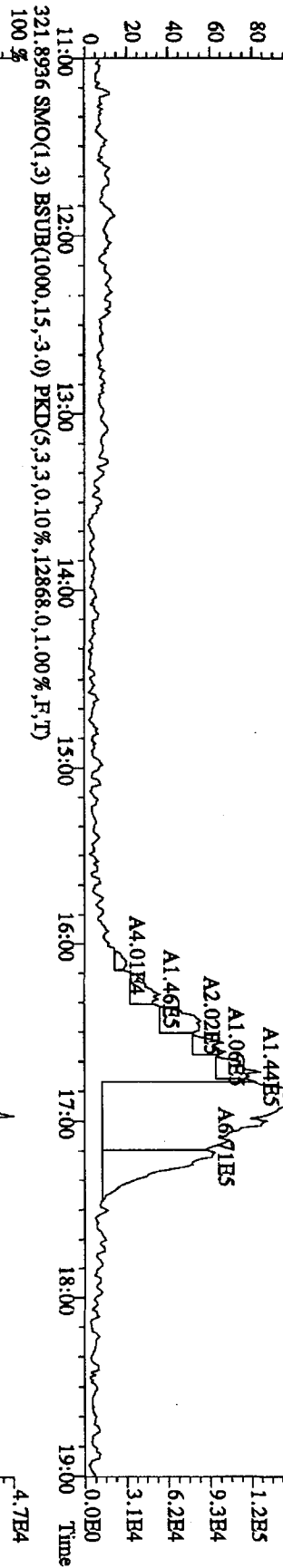
File: 26JL105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB225RBS
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080.0,1.00%,F,T)



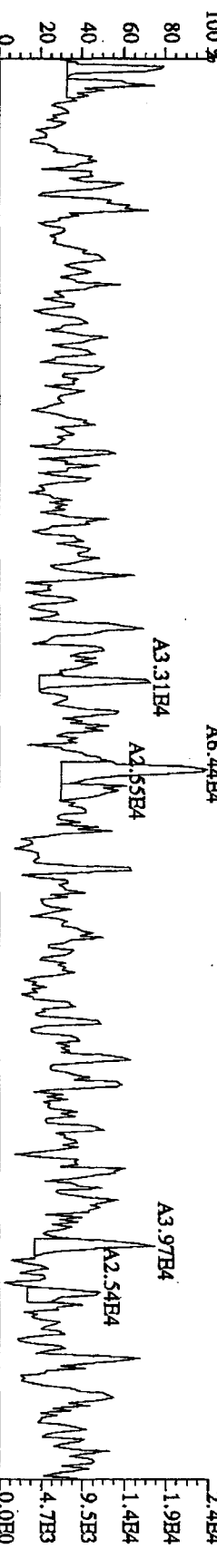
File: 26JUL105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage: SIR 70SE
 Sample#1 Text: CP0726 :DB-225 CPSM 3732-06 Exp: DB225RES
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5928.0,1.00%,F,T)



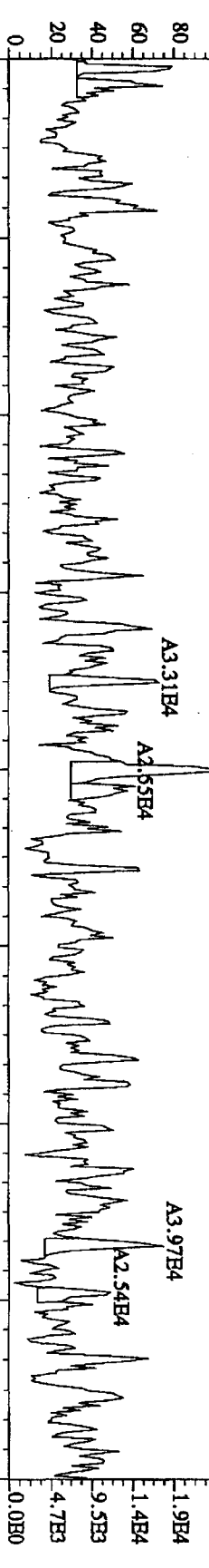
File: 261L10SD2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC BI+ Voltage SIR 70SE
 Sample#1 Text: CP0726 : DB-225 CP5M 3732-06 Exp: DB225RES
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9128,0.1,1.00%,F,T)
 100%



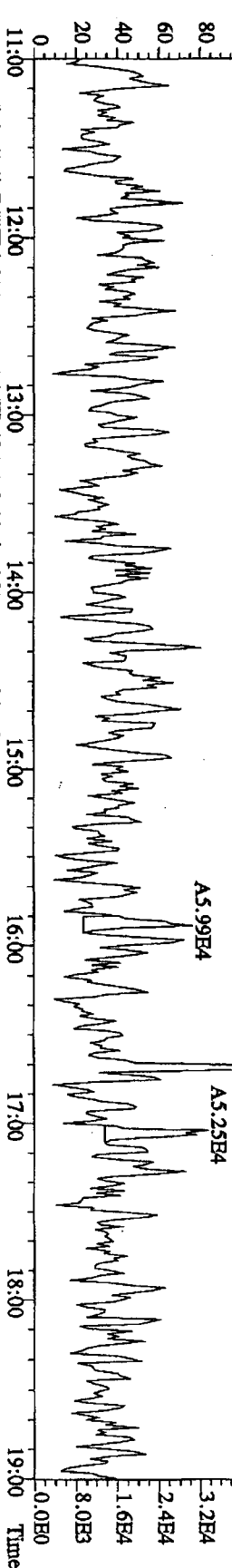
File:26IL105ID2 #1-1242 Acq:26-JUL-2010 08:18:34 GC HI + Voltage SIR 70SE
 Sample#1 Text:CP0726 :DB-225 CP9M 3732-06 Exp:DB225RES
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.9332,0,1.00%,F,T)
 100 %



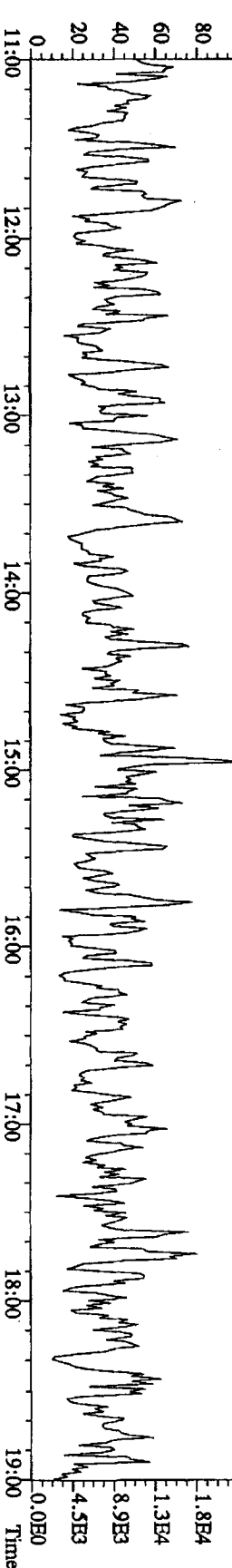
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.9332,0,1.00%,F,T)
 100 %



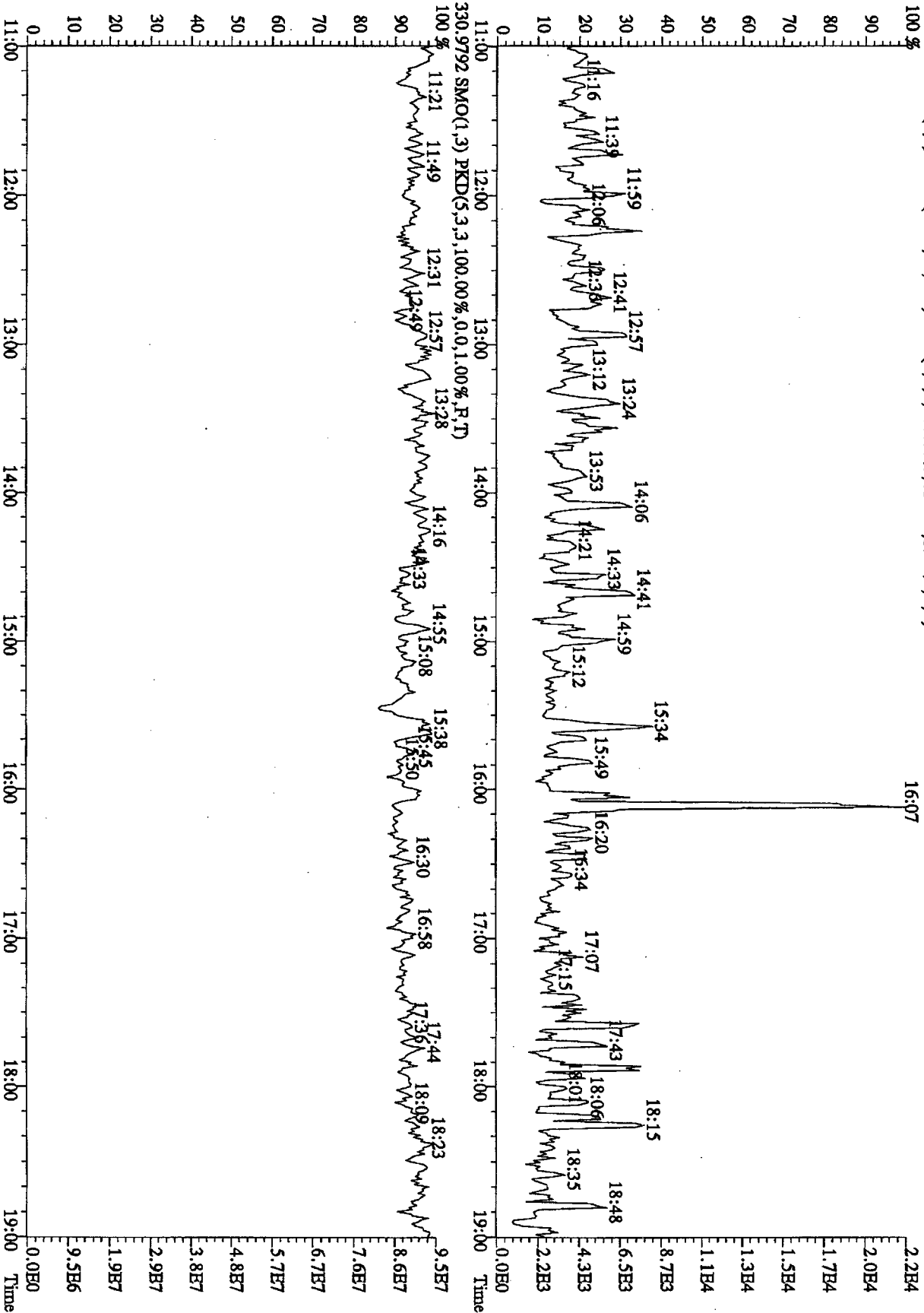
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.18184,0,1.00%,F,T)
 100 %



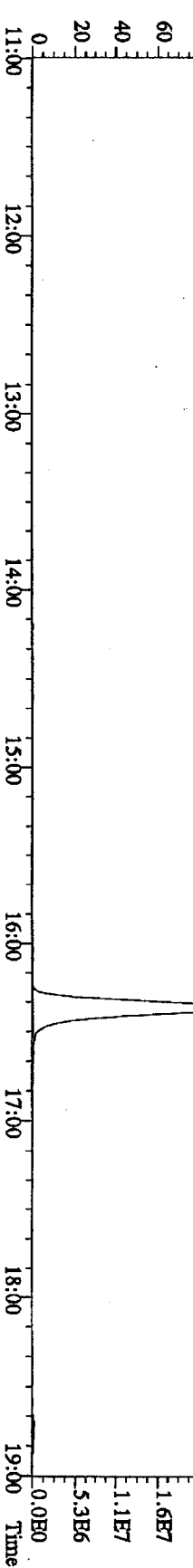
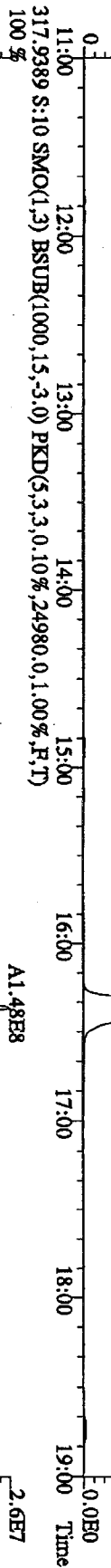
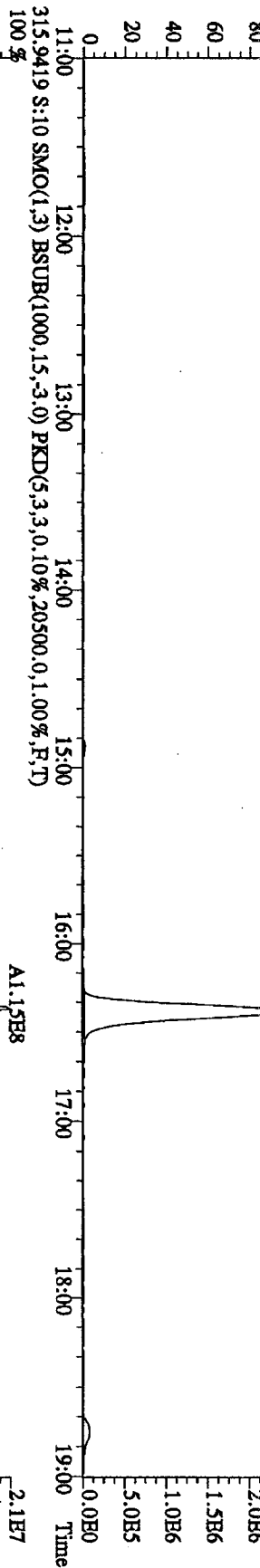
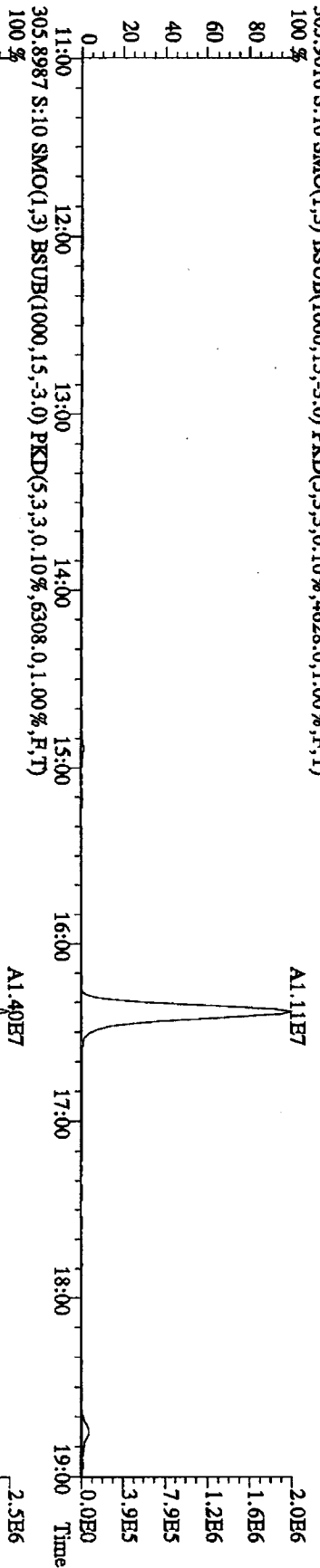
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.10552,0,1.00%,F,T)
 100 %



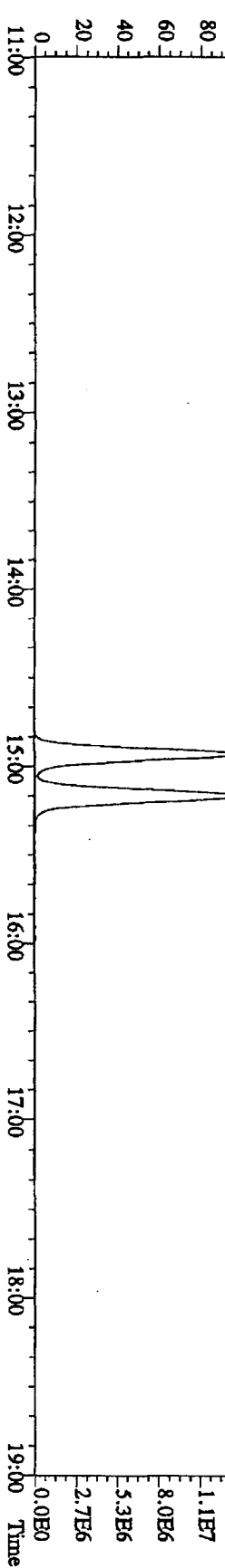
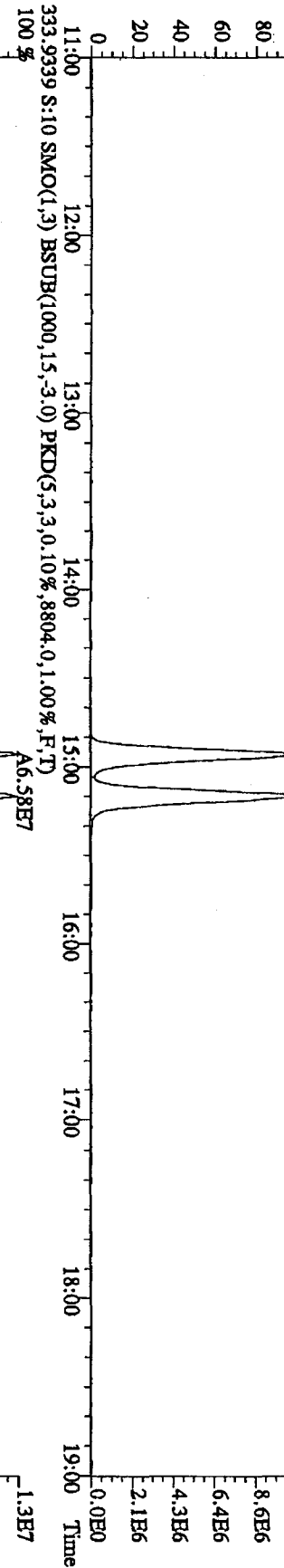
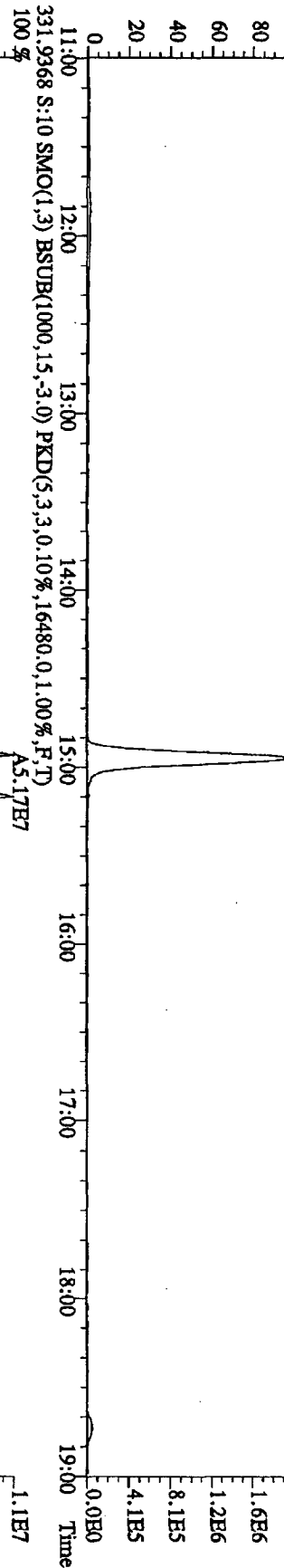
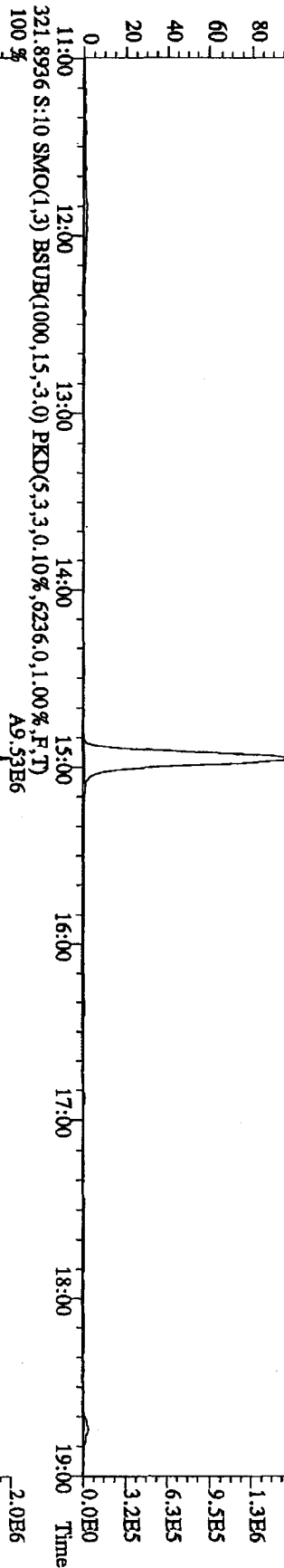
File: 2611.1051D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC: HI + Voltage SIR 70SE
 Sample#1 Text: CP0726 : DB-225 CFSM 3732-06 Exp: DB225RES
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4108.0,1.00%,F,T)



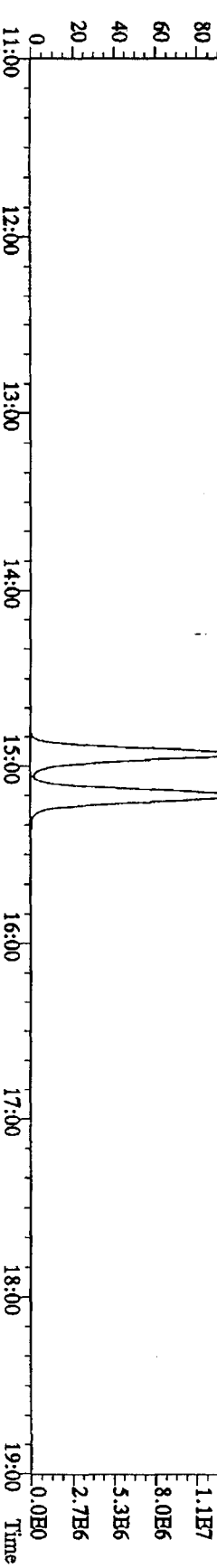
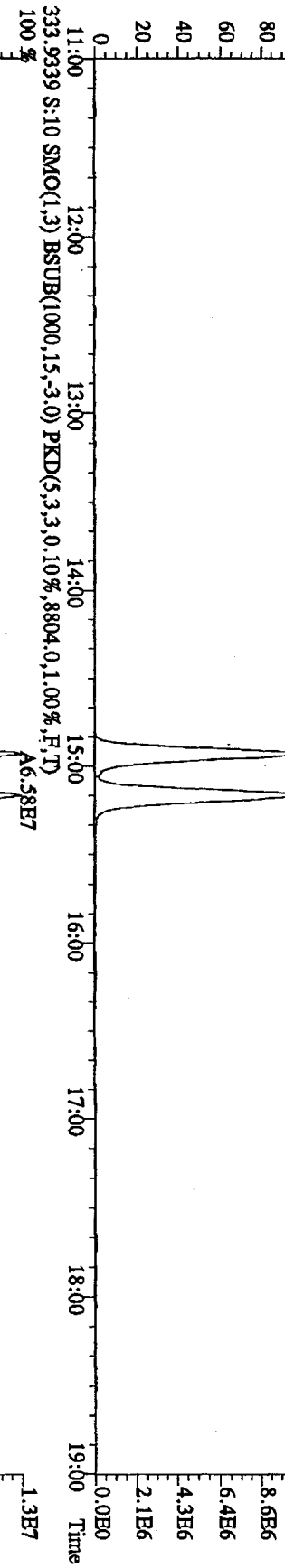
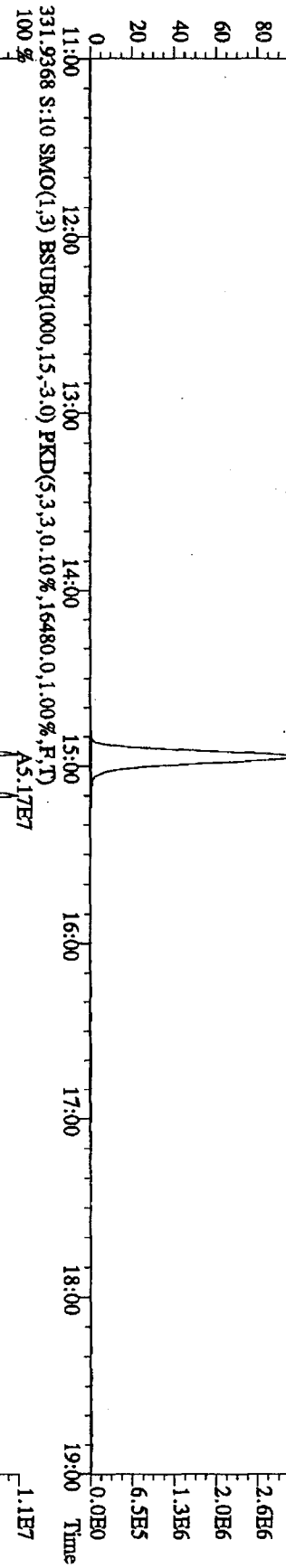
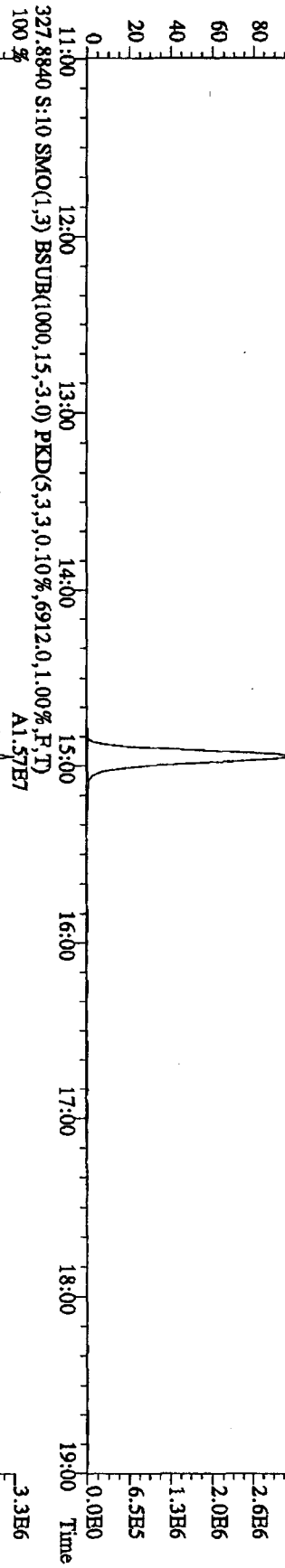
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC HI + Voltage SIR 70SE
 Sample#10 Text:ST0726F 2nd Source 10DXN340 Exp:DB225RES
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628.0,1.00%,F,T)
 100 %



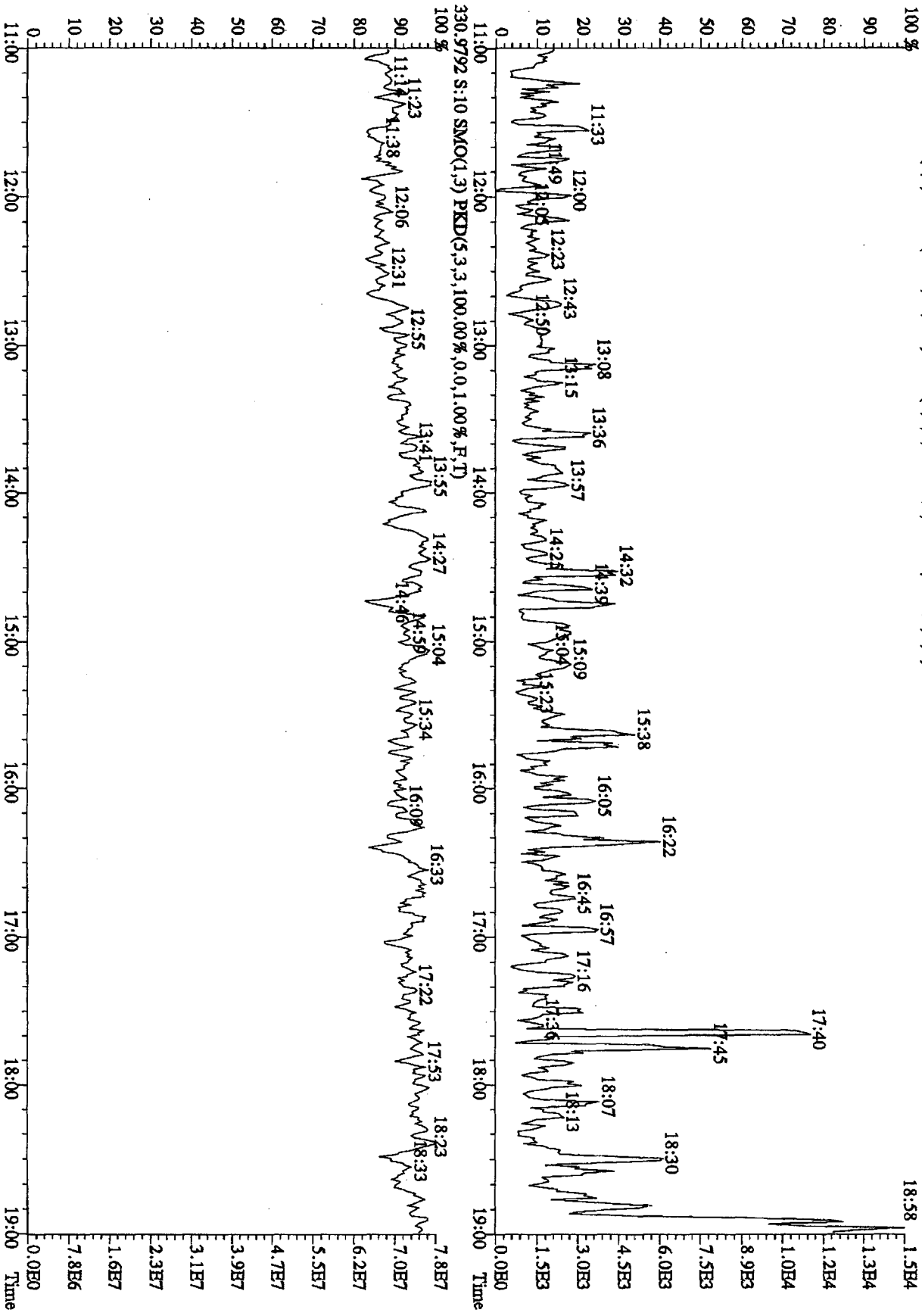
File:26L105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC HI+ Voltage STR 70SE
 Sample#10 Text:STU726F :2nd Source 10DXN340 Exp:DB25RES
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5104,0,1,00%,F,T)
 100% A7.72E6



File:26IL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB25RES
 327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6912.0,1.00%,F,T)
 100% A1.57E7



File: 26L10SD2 #1-1242 Acq: 26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
 Sample#10 Text: ST0726F 2nd Source 10DXN340 Exp: DB225RES
 375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,2100.0,1.00%,F,T)



Initial Calibration Checklist
Dioxin Methods

ICAL ID 8290, 1613, 0023A, 23, TO9, Tetras 0121104D5

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

Column ID DB5 Instrument ID 4D5

STD ID's ST0721A → ST0721E STD Solution (10 D_xN) 334, 336, 337, 339, 342

GC Program OCDD Multiplier Setting 4-10 KV

Analyzed By KSS Date Analyzed 07-21-10

Prepared By KSS Date Prepared 07-22-10

Reviewed By JRB Date Reviewed 7/22/10

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

COMMENTS:

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N ≥10
 Method 1613B: %RSD ≤ 20% natives, ≤30% labeled compounds; S/N ≥10
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 15S8098D2 Analyte: TO9 Cal: T090721104DS

ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336
 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

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

13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03

13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02

37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
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13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total P2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total P1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10

13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19

13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
1,2,3,4,6,7,8-HxCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

Run #1 Filename 21JL10A4D5 S: 4 I: 1
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	311991000	0.79 y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	406871000	0.79 y	19:24	1.3041	100.00	n
2,3,7,8-TCDF	2100786	0.70 y	19:25	1.0327	0.50	n
Total TCDF	-	- n	-	1.0327	0.50	n
13C-2,3,7,8-TCDD	286692000	0.78 y	20:13	0.9189	100.00	n
2,3,7,8-TCDD	1410323	0.86 y	20:14	0.9839	0.50	n
Total TCDD	-	- n	-	0.9839	0.50	n
37Cl-2,3,7,8-TCDD	1900202	1.00 y	20:14	1.3256	0.50	n
13C-1,2,3,7,8-PeCDF	267161000	1.54 y	25:17	0.8563	100.00	n
1,2,3,7,8-PeCDF	6866350	1.58 y	25:19	1.0280	2.50	n
2,3,4,7,8-PeCDF	6654750	1.57 y	26:51	0.9964	2.50	n
Total F2 PeCDF	-	- n	-	1.0122	5.00	n
Total F1 PeCDF	-	- n	-	1.0122	5.00	n
13C-1,2,3,7,8-PeCDD	202489300	1.56 y	27:41	0.6490	100.00	n
1,2,3,7,8-PeCDD	4490250	1.47 y	27:43	0.8870	2.50	n
Total PeCDD	-	- n	-	0.8870	2.50	n
13C-1,2,3,7,8,9-HxCDD	216693700	1.31 y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	223118900	0.51 y	32:16	1.0297	100.00	n
1,2,3,4,7,8-HxCDF	6768610	1.17 y	32:17	1.2135	2.50	n
1,2,3,6,7,8-HxCDF	6624500	1.24 y	32:24	1.1876	2.50	n
2,3,4,6,7,8-HxCDF	6618550	1.19 y	32:54	1.1866	2.50	n
1,2,3,7,8,9-HxCDF	6028420	1.13 y	33:32	1.0808	2.50	n
Total HxCDF	-	- n	-	1.1671	10.00	n
13C-1,2,3,6,7,8-HxCDD	182168900	1.32 y	33:06	0.8407	100.00	y ✓
1,2,3,4,7,8-HxCDD	4087150	1.18 y	33:03	0.8974	2.50	n
1,2,3,6,7,8-HxCDD	5184140	1.31 y	33:07	1.1383	2.50	n
1,2,3,7,8,9-HxCDD	5222820	1.27 y	33:22	1.1468	2.50	n
Total HxCDD	-	- n	-	1.0609	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	214578400	0.43 y	34:53	0.9902	100.00	n
1,2,3,4,6,7,8-HpCDF	7009400	1.06 y	34:54	1.3066	2.50	n
1,2,3,4,7,8,9-HpCDF	5421290	1.00 y	36:03	1.0106	2.50	n
Total HpCDF	-	- n	-	1.1586	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	193217400	1.03 y	35:42	0.8917	100.00	n
1,2,3,4,6,7,8-HpCDD	5159640	1.03 y	35:43	1.0682	2.50	n
Total HpCDD	-	- n	-	1.0682	2.50	n
13C-OCDD	284075000	0.88 y	38:16	0.6555	200.00	n
OCDF	9640820	0.93 y	38:23	1.3575	5.00	n

OCDD 9336890 0.91 y 38:16 1.3147 5.00 n

Run #1 Filename 21JL10A4D5 S: 4 I: 1
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	311991000	0.79 y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	406871000	0.79 y	19:24	1.3041	100.00	n
2,3,7,8-TCDF	2100786	0.70 y	19:25	1.0327	0.50	n
Total TCDF	-	- n	-	1.0327	0.50	n
13C-2,3,7,8-TCDD	286692000	0.78 y	20:13	0.9189	100.00	n
2,3,7,8-TCDD	1410323	0.86 y	20:14	0.9839	0.50	n
Total TCDD	-	- n	-	0.9839	0.50	n
37Cl-2,3,7,8-TCDD	1900202	1.00 y	20:14	1.3256	0.50	n
13C-1,2,3,7,8-PeCDF	267161000	1.54 y	25:17	0.8563	100.00	n
1,2,3,7,8-PeCDF	6866350	1.58 y	25:19	1.0280	2.50	n
2,3,4,7,8-PeCDF	6654750	1.57 y	26:51	0.9964	2.50	n
Total F2 PeCDF	-	- n	-	1.0122	5.00	n
Total F1 PeCDF	-	- n	-	1.0122	5.00	n
13C-1,2,3,7,8-PeCDD	202489300	1.56 y	27:41	0.6490	100.00	n
1,2,3,7,8-PeCDD	4490250	1.47 y	27:43	0.8870	2.50	n
Total PeCDD	-	- n	-	0.8870	2.50	n
13C-1,2,3,7,8,9-HxCDD	216693700	1.31 y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	223118900	0.51 y	32:16	1.0297	100.00	n
1,2,3,4,7,8-HxCDF	6768610	1.17 y	32:17	1.2135	2.50	n
1,2,3,6,7,8-HxCDF	6624500	1.24 y	32:24	1.1876	2.50	n
2,3,4,6,7,8-HxCDF	6618550	1.19 y	32:54	1.1866	2.50	n
1,2,3,7,8,9-HxCDF	6028420	1.13 y	33:32	1.0808	2.50	n
Total HxCDF	-	- n	-	1.1671	10.00	n
13C-1,2,3,6,7,8-HxCDD	183007300	1.15 y	33:06	0.8445	100.00	n
1,2,3,4,7,8-HxCDD	4087150	1.18 y	33:03	0.8933	2.50	n
1,2,3,6,7,8-HxCDD	5184140	1.31 y	33:07	1.1331	2.50	n
1,2,3,7,8,9-HxCDD	5222820	1.27 y	33:22	1.1416	2.50	n
Total HxCDD	-	- n	-	1.0560	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	214578400	0.43 y	34:53	0.9902	100.00	n
1,2,3,4,6,7,8-HpCDF	7009400	1.06 y	34:54	1.3066	2.50	n
1,2,3,4,7,8,9-HpCDF	5421290	1.00 y	36:03	1.0106	2.50	n
Total HpCDF	-	- n	-	1.1586	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	193217400	1.03 y	35:42	0.8917	100.00	n
1,2,3,4,6,7,8-HpCDD	5159640	1.03 y	35:43	1.0682	2.50	n
Total HpCDD	-	- n	-	1.0682	2.50	n
13C-OCDD	284075000	0.88 y	38:16	0.6555	200.00	n
OCDF	9640820	0.93 y	38:23	1.3575	5.00	n

OCDD 9336890 0.91 y 38:16 1.3147 5.00 n

Run #2 Filename 21JL10A4D5 S: 5 I: 1
 Acquired: 21-JUL-10 17:33:53 Processed: 22-JUL-10 12:01:11
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721B :CS-2 10DXN334

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	346133000	0.79 y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	454963000	0.79 y	19:25	1.3144	100.00	n
2,3,7,8-TCDF	8692490	0.78 y	19:26	0.9553	2.00	n
Total TCDF	-	- n	-	0.9553	2.00	n
13C-2,3,7,8-TCDD	317456000	0.78 y	20:14	0.9172	100.00	n
2,3,7,8-TCDD	5958260	0.78 y	20:15	0.9384	2.00	n
Total TCDD	-	- n	-	0.9384	2.00	n
37C1-2,3,7,8-TCDD	8349040	1.00 y	20:15	1.3150	2.00	n
13C-1,2,3,7,8-PeCDF	311858000	1.53 y	25:17	0.9010	100.00	n
1,2,3,7,8-PeCDF	32375300	1.57 y	25:19	1.0381	10.00	n
2,3,4,7,8-PeCDF	31788800	1.54 y	26:52	1.0193	10.00	n
Total F2 PeCDF	-	- n	-	1.0287	20.00	n
Total F1 PeCDF	-	- n	-	1.0287	20.00	n
13C-1,2,3,7,8-PeCDD	228833100	1.55 y	27:41	0.6611	100.00	n
1,2,3,7,8-PeCDD	20211030	1.54 y	27:42	0.8832	10.00	n
Total PeCDD	-	- n	-	0.8832	10.00	n
13C-1,2,3,7,8,9-HxCDD	250231000	1.31 y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	286839800	0.51 y	32:16	1.1463	100.00	n
1,2,3,4,7,8-HxCDF	34391700	1.17 y	32:17	1.1990	10.00	n
1,2,3,6,7,8-HxCDF	34994300	1.19 y	32:24	1.2200	10.00	n
2,3,4,6,7,8-HxCDF	32979800	1.17 y	32:55	1.1498	10.00	n
1,2,3,7,8,9-HxCDF	28460200	1.20 y	33:33	0.9922	10.00	n
Total HxCDF	-	- n	-	1.1402	40.00	n
13C-1,2,3,6,7,8-HxCDD	207728500	1.31 y	33:06	0.8301	100.00	n
1,2,3,4,7,8-HxCDD	20528920	1.23 y	33:03	0.9883	10.00	n
1,2,3,6,7,8-HxCDD	25476800	1.29 y	33:07	1.2264	10.00	n
1,2,3,7,8,9-HxCDD	24026200	1.28 y	33:23	1.1566	10.00	n
Total HxCDD	-	- n	-	1.1238	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	227576800	0.43 y	34:53	0.9095	100.00	n
1,2,3,4,6,7,8-HpCDF	30499500	1.03 y	34:54	1.3402	10.00	n
1,2,3,4,7,8,9-HpCDF	24758800	1.01 y	36:03	1.0879	10.00	n
Total HpCDF	-	- n	-	1.2141	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	212760000	1.04 y	35:42	0.8503	100.00	n
1,2,3,4,6,7,8-HpCDD	21862400	1.02 y	35:43	1.0276	10.00	n
Total HpCDD	-	- n	-	1.0276	10.00	n
13C-OCDD	316775000	0.88 y	38:16	0.6330	200.00	n
OCDF	42624800	0.89 y	38:23	1.3456	20.00	n
OCDD	37017600	0.89 y	38:17	1.1686	20.00	n

Run #3 Filename 21JL10A4D5 S: 6 I: 1
 Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 12:01:11
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721C :CS-3 10DXN336

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	297616000	0.80 y	20:00	-	100.00 n
13C-2,3,7,8-TCDF	414416000	0.80 y	19:23	1.3925	100.00 n
2,3,7,8-TCDF	40815800	0.78 y	19:25	0.9849	10.00 n
Total TCDF	-	- n	-	0.9849	10.00 n
13C-2,3,7,8-TCDD	279542000	0.79 y	20:13	0.9393	100.00 n
2,3,7,8-TCDD	27062400	0.80 y	20:15	0.9681	10.00 n
Total TCDD	-	- n	-	0.9681	10.00 n
37Cl-2,3,7,8-TCDD	36762200	1.00 y	20:14	1.3151	10.00 n
13C-1,2,3,7,8-PeCDF	256521000	1.55 y	25:18	0.8619	100.00 n
1,2,3,7,8-PeCDF	138997400	1.55 y	25:20	1.0837	50.00 n
2,3,4,7,8-PeCDF	138743000	1.55 y	26:53	1.0817	50.00 n
Total F2 PeCDF	-	- n	-	1.0827	100.00 n
Total F1 PeCDF	-	- n	-	1.0827	100.00 n
13C-1,2,3,7,8-PeCDD	199400100	1.58 y	27:43	0.6700	100.00 n
1,2,3,7,8-PeCDD	93821800	1.53 y	27:44	0.9410	50.00 n
Total PeCDD	-	- n	-	0.9410	50.00 n
13C-1,2,3,7,8,9-HxCDD	211830200	1.30 y	33:22	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	206662600	0.51 y	32:17	0.9756	100.00 n
1,2,3,4,7,8-HxCDF	125916200	1.16 y	32:18	1.2186	50.00 n
1,2,3,6,7,8-HxCDF	145591100	1.17 y	32:23	1.4090	50.00 n
2,3,4,6,7,8-HxCDF	139989400	1.18 y	32:55	1.3548	50.00 n
1,2,3,7,8,9-HxCDF	129462400	1.18 y	33:33	1.2529	50.00 n
Total HxCDF	-	- n	-	1.3088	200.00 n
13C-1,2,3,6,7,8-HxCDD	194269900	1.31 y	33:07	0.9171	100.00 n
1,2,3,4,7,8-HxCDD	94117900	1.23 y	33:03	0.9689	50.00 n
1,2,3,6,7,8-HxCDD	106981800	1.27 y	33:08	1.1014	50.00 n
1,2,3,7,8,9-HxCDD	108772200	1.25 y	33:23	1.1198	50.00 n
Total HxCDD	-	- n	-	1.0634	150.00 n
13C-1,2,3,4,6,7,8-HpCDF	194898500	0.43 y	34:53	0.9201	100.00 n
1,2,3,4,6,7,8-HpCDF	131367000	1.01 y	34:54	1.3481	50.00 n
1,2,3,4,7,8,9-HpCDF	108439900	1.02 y	36:02	1.1128	50.00 n
Total HpCDF	-	- n	-	1.2304	100.00 n
13C-1,2,3,4,6,7,8-HpCDD	176478000	1.04 y	35:43	0.8331	100.00 n
1,2,3,4,6,7,8-HpCDD	94723500	1.02 y	35:43	1.0735	50.00 n
Total HpCDD	-	- n	-	1.0735	50.00 n
13C-OCDD	266609000	0.89 y	38:16	0.6293	200.00 n
OCDF	179957800	0.91 y	38:23	1.3500	100.00 n
OCDD	154054800	0.90 y	38:16	1.1557	100.00 n

Run #5 Filename 21JL10A4D5 S: 8 I: 1
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	363554000	0.80 y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	402416000	0.79 y	19:24	1.1069	100.00	n
2,3,7,8-TCDF	166293900	0.77 y	19:25	1.0331	40.00	n
Total TCDF	-	- n	-	1.0331	40.00	n
13C-2,3,7,8-TCDD	314971000	0.80 y	20:13	0.8664	100.00	n
2,3,7,8-TCDD	127934900	0.78 y	20:15	1.0154	40.00	n
Total TCDD	-	- n	-	1.0154	40.00	n
37Cl-2,3,7,8-TCDD	166729600	1.00 y	20:15	1.3234	40.00	n
13C-1,2,3,7,8-PeCDF	317818000	1.53 y	25:17	0.8742	100.00	n
1,2,3,7,8-PeCDF	712080000	1.54 y	25:19	1.1203	200.00	n
2,3,4,7,8-PeCDF	692103000	1.53 y	26:51	1.0888	200.00	n
Total F2 PeCDF	-	- n	-	1.1045	400.00	n
Total F1 PeCDF	-	- n	-	1.1045	400.00	n
13C-1,2,3,7,8-PeCDD	237598000	1.55 y	27:40	0.6535	100.00	n
1,2,3,7,8-PeCDD	458679000	1.50 y	27:43	0.9652	200.00	n
Total PeCDD	-	- n	-	0.9652	200.00	n
13C-1,2,3,7,8,9-HxCDD	248923000	1.30 y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	267009400	0.51 y	32:16	1.0727	100.00	n
1,2,3,4,7,8-HxCDF	658410000	1.16 y	32:17	1.2329	200.00	n
1,2,3,6,7,8-HxCDF	673142000	1.18 y	32:24	1.2605	200.00	n
2,3,4,6,7,8-HxCDF	645815000	1.17 y	32:54	1.2093	200.00	n
1,2,3,7,8,9-HxCDF	567208000	1.17 y	33:33	1.0621	200.00	n
Total HxCDF	-	- n	-	1.1912	800.00	n
13C-1,2,3,6,7,8-HxCDD	197349200	1.31 y	33:06	0.7928	100.00	n
1,2,3,4,7,8-HxCDD	458143000	1.26 y	33:03	1.1607	200.00	y ✓
1,2,3,6,7,8-HxCDD	484675000	1.28 y	33:07	1.2280	200.00	y ✓
1,2,3,7,8,9-HxCDD	488147000	1.26 y	33:23	1.2368	200.00	n
Total HxCDD	-	- n	-	1.2085	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	214761200	0.43 y	34:53	0.8628	100.00	n
1,2,3,4,6,7,8-HpCDF	593215000	1.01 y	34:54	1.3811	200.00	n
1,2,3,4,7,8,9-HpCDF	485366000	1.01 y	36:03	1.1300	200.00	n
Total HpCDF	-	- n	-	1.2556	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	197451500	1.05 y	35:42	0.7932	100.00	n
1,2,3,4,6,7,8-HpCDD	435214000	1.03 y	35:43	1.1021	200.00	n
Total HpCDD	-	- n	-	1.1021	200.00	n
13C-OCDD	291770000	0.90 y	38:16	0.5861	200.00	n
OCDF	820312000	0.90 y	38:23	1.4058	400.00	n

OCDD 694943000 0.90 y 38:16 1.1909 400.00 n

Run #5 Filename 21JL10A4D5 S: 8 I: 1
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	363554000	0.80 y	20:01	-	100.00 n
13C-2,3,7,8-TCDF	402416000	0.79 y	19:24	1.1069	100.00 n
2,3,7,8-TCDF	166293900	0.77 y	19:25	1.0331	40.00 n
Total TCDF	-	- n	-	1.0331	40.00 n
13C-2,3,7,8-TCDD	314971000	0.80 y	20:13	0.8664	100.00 n
2,3,7,8-TCDD	127934900	0.78 y	20:15	1.0154	40.00 n
Total TCDD	-	- n	-	1.0154	40.00 n
37Cl-2,3,7,8-TCDD	166729600	1.00 y	20:15	1.3234	40.00 n
13C-1,2,3,7,8-PeCDF	317818000	1.53 y	25:17	0.8742	100.00 n
1,2,3,7,8-PeCDF	712080000	1.54 y	25:19	1.1203	200.00 n
2,3,4,7,8-PeCDF	692103000	1.53 y	26:51	1.0888	200.00 n
Total F2 PeCDF	-	- n	-	1.1045	400.00 n
Total F1 PeCDF	-	- n	-	1.1045	400.00 n
13C-1,2,3,7,8-PeCDD	237598000	1.55 y	27:40	0.6535	100.00 n
1,2,3,7,8-PeCDD	458679000	1.50 y	27:43	0.9652	200.00 n
Total PeCDD	-	- n	-	0.9652	200.00 n
13C-1,2,3,7,8,9-HxCDD	248923000	1.30 y	33:22	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	267009400	0.51 y	32:16	1.0727	100.00 n
1,2,3,4,7,8-HxCDF	658410000	1.16 y	32:17	1.2329	200.00 n
1,2,3,6,7,8-HxCDF	673142000	1.18 y	32:24	1.2605	200.00 n
2,3,4,6,7,8-HxCDF	645815000	1.17 y	32:54	1.2093	200.00 n
1,2,3,7,8,9-HxCDF	567208000	1.17 y	33:33	1.0621	200.00 n
Total HxCDF	-	- n	-	1.1912	800.00 n
13C-1,2,3,6,7,8-HxCDD	197349200	1.31 y	33:06	0.7928	100.00 n
1,2,3,4,7,8-HxCDD	422231040	1.45 n	33:03	1.0698	200.00 n
1,2,3,6,7,8-HxCDD	481044000	1.12 y	33:07	1.2188	200.00 n
1,2,3,7,8,9-HxCDD	488146000	1.26 y	33:23	1.2368	200.00 n
Total HxCDD	-	- n	-	1.1751	600.00 n
13C-1,2,3,4,6,7,8-HpCDF	214761200	0.43 y	34:53	0.8628	100.00 n
1,2,3,4,6,7,8-HpCDF	593215000	1.01 y	34:54	1.3811	200.00 n
1,2,3,4,7,8,9-HpCDF	485366000	1.01 y	36:03	1.1300	200.00 n
Total HpCDF	-	- n	-	1.2556	400.00 n
13C-1,2,3,4,6,7,8-HpCDD	197451500	1.05 y	35:42	0.7932	100.00 n
1,2,3,4,6,7,8-HpCDD	435214000	1.03 y	35:43	1.1021	200.00 n
Total HpCDD	-	- n	-	1.1021	200.00 n
13C-OCDD	291770000	0.90 y	38:16	0.5861	200.00 n
OCDF	820312000	0.90 y	38:23	1.4058	400.00 n
OCDD	694943000	0.90 y	38:16	1.1909	400.00 n

Run #4 Filename 21JL10A4D5 S: 7 I: 1
 Acquired: 21-JUL-10 19:03:58 Processed: 22-JUL-10 12:01:12
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

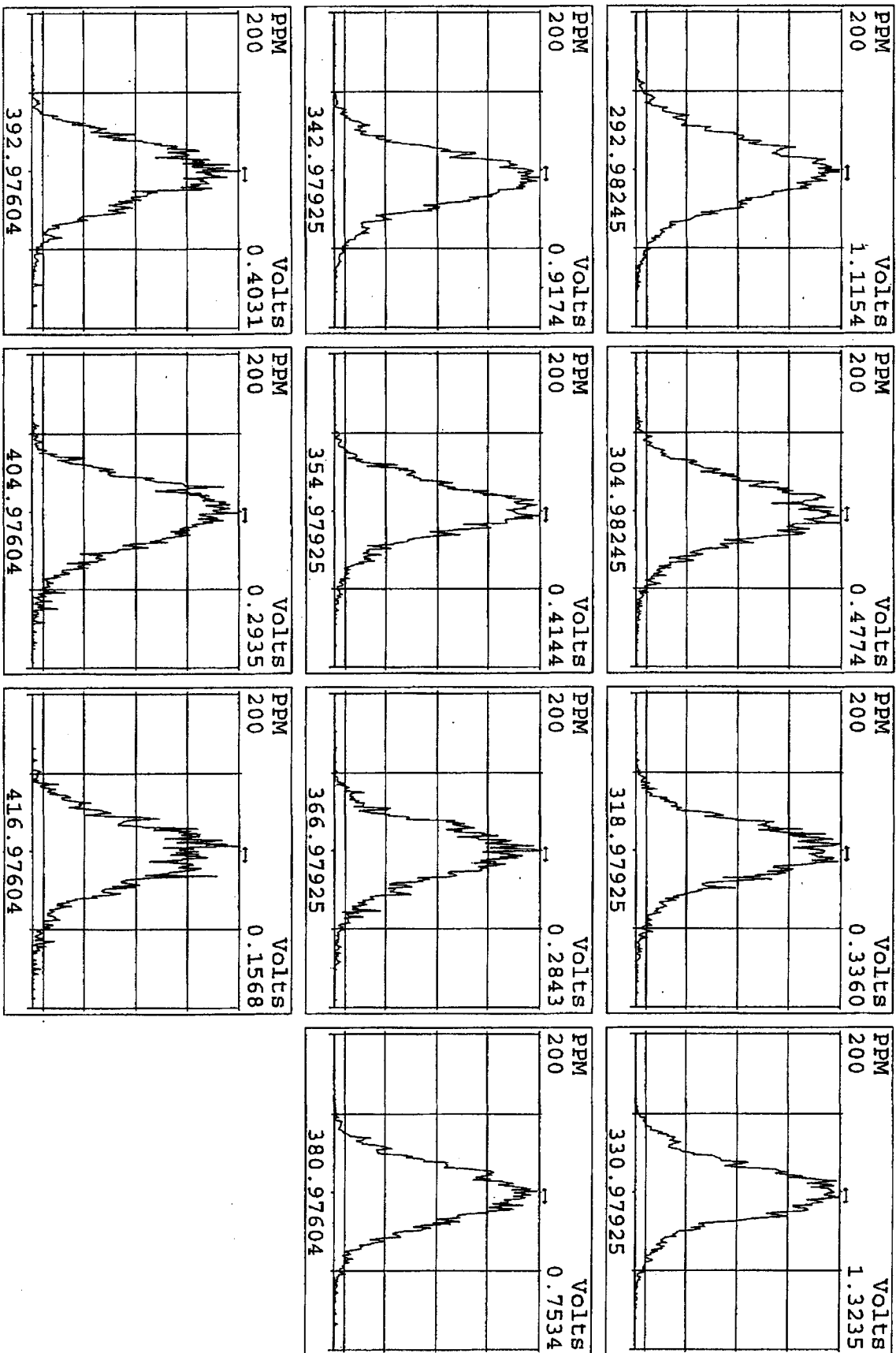
Sample text: ST0721D :CS-5 10DXN339

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13C-2,3,7,8-TCDF	360772000	0.79 y	19:24	1.0288	100.00 n
2,3,7,8-TCDF	697458000	0.77 y	19:25	0.9666	200.00 n
Total TCDF	-	- n	-	0.9666	200.00 n
13C-2,3,7,8-TCDD	309835000	0.78 y	20:14	0.8836	100.00 n
2,3,7,8-TCDD	626791000	0.79 y	20:16	1.0115	200.00 n
Total TCDD	-	- n	-	1.0115	200.00 n
37C1-2,3,7,8-TCDD	837356000	1.00 y	20:15	1.3513	200.00 n
13C-1,2,3,7,8-PeCDF	310980000	1.54 y	25:18	0.8868	100.00 n
1,2,3,7,8-PeCDF	3461250000	1.54 y	25:20	1.1130	1000.00 n
2,3,4,7,8-PeCDF	3239400000	1.52 y	26:52	1.0417	1000.00 n
Total F2 PeCDF	-	- n	-	1.0773	2000.00 n
Total F1 PeCDF	-	- n	-	1.0773	2000.00 n
13C-1,2,3,7,8-PeCDD	235100700	1.56 y	27:42	0.6705	100.00 n
1,2,3,7,8-PeCDD	2235314000	1.50 y	27:44	0.9508	1000.00 n
Total PeCDD	-	- n	-	0.9508	1000.00 n
13C-1,2,3,7,8,9-HxCDD	256316000	1.29 y	33:22	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	256243600	0.51 y	32:16	0.9997	100.00 n
1,2,3,4,7,8-HxCDF	3131920000	1.15 y	32:17	1.2222	1000.00 n
1,2,3,6,7,8-HxCDF	3410730000	1.19 y	32:24	1.3311	1000.00 n
2,3,4,6,7,8-HxCDF	3245730000	1.18 y	32:55	1.2667	1000.00 n
1,2,3,7,8,9-HxCDF	2825950000	1.18 y	33:33	1.1028	1000.00 n
Total HxCDF	-	- n	-	1.2307	4000.00 n
13C-1,2,3,6,7,8-HxCDD	198188400	1.30 y	33:07	0.7732	100.00 n
1,2,3,4,7,8-HxCDD	2319900000	1.23 y	33:03	1.1706	1000.00 n
1,2,3,6,7,8-HxCDD	2219442000	1.26 y	33:07	1.1199	1000.00 n
1,2,3,7,8,9-HxCDD	2474590000	1.26 y	33:23	1.2486	1000.00 n
Total HxCDD	-	- n	-	1.1797	3000.00 n
13C-1,2,3,4,6,7,8-HpCDF	222373600	0.44 y	34:54	0.8676	100.00 n
1,2,3,4,6,7,8-HpCDF	3008480000	1.01 y	34:54	1.3529	1000.00 n
1,2,3,4,7,8,9-HpCDF	2503650000	1.02 y	36:03	1.1259	1000.00 n
Total HpCDF	-	- n	-	1.2394	2000.00 n
13C-1,2,3,4,6,7,8-HpCDD	196025300	1.04 y	35:42	0.7648	100.00 n
1,2,3,4,6,7,8-HpCDD	2131190000	1.02 y	35:43	1.0872	1000.00 n
Total HpCDD	-	- n	-	1.0872	1000.00 n
13C-OCDD	305368000	0.90 y	38:16	0.5957	200.00 n
OCDF	4252770000	0.90 y	38:23	1.3927	2000.00 n
OCDD	3562830000	0.90 y	38:16	1.1667	2000.00 n

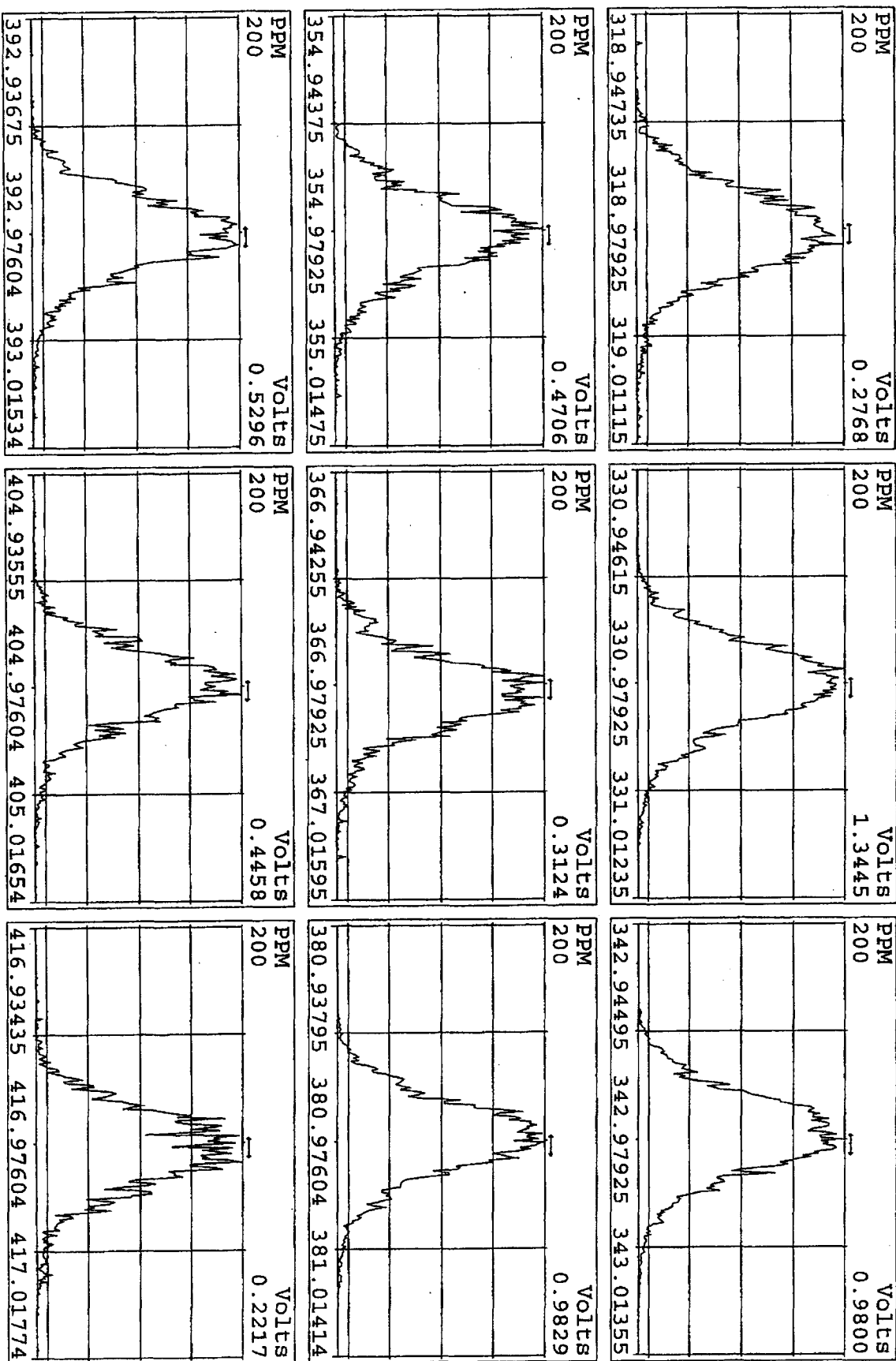
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21JL10A4D5	3	ST0721	CS-0.2 10DXN333 (Not used) sensitivity ✓ only				1.00000	
21JL10A4D5	4	ST0721A	CS-1 10DXN342				1.00000	
21JL10A4D5	5	ST0721B	CS-2 10DXN334				1.00000	
21JL10A4D5	6	ST0721C	CS-3 10DXN336				1.00000	
21JL10A4D5	7	ST0721D	CS-5 10DXN339				1.00000	
21JL10A4D5	8	ST0721E	CS-4 10DXN337				1.00000	
21JL10A4D5	9	ST0721F	2nd Source 10DXN340				1.00000	
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21JL10A4D5	11						1.00000	
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*log file v'd
NR 7/22/10*

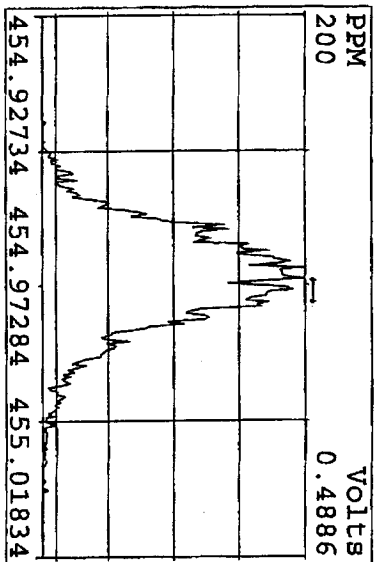
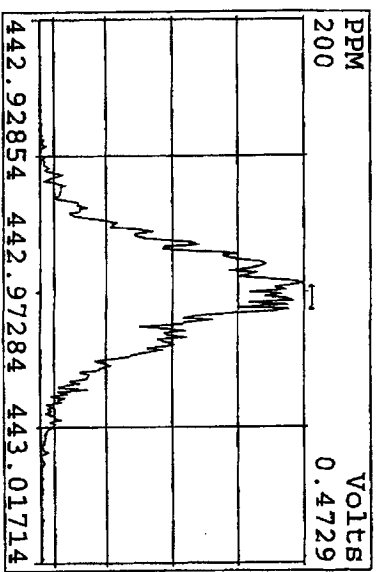
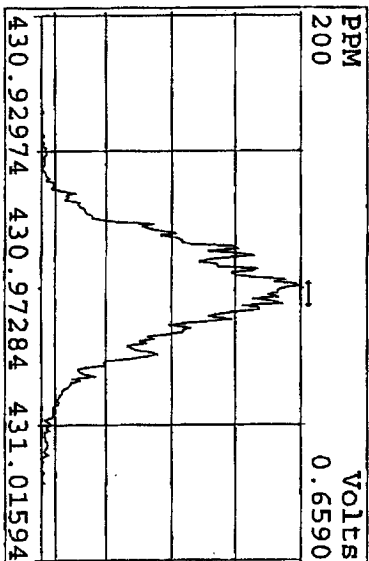
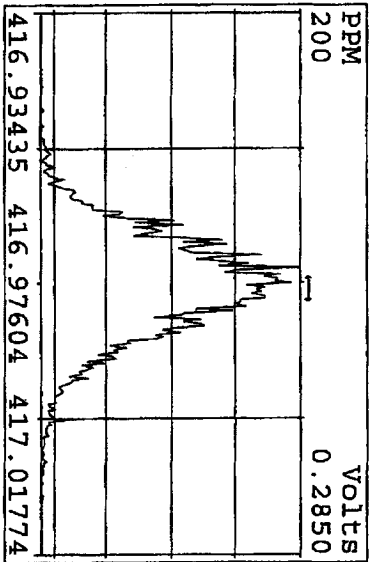
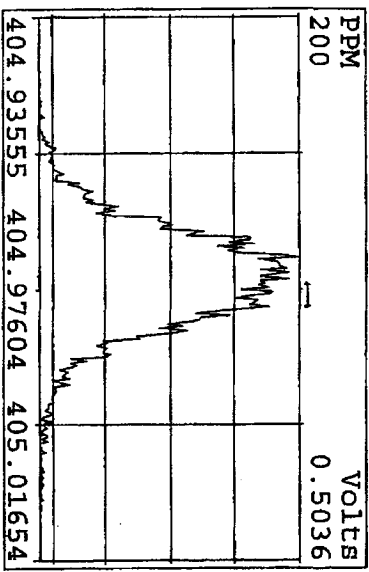
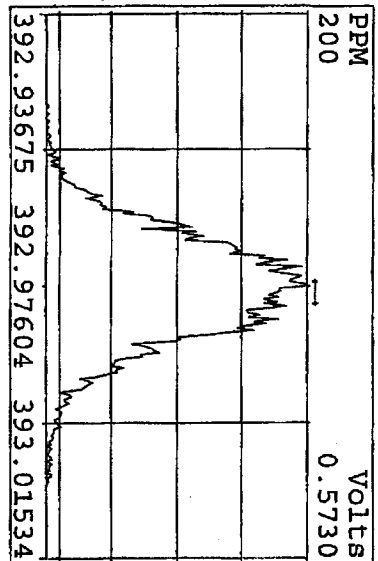
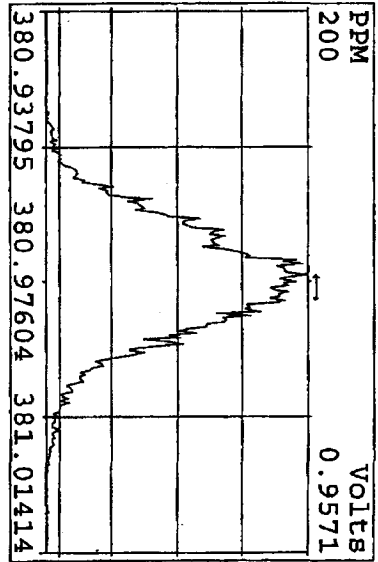
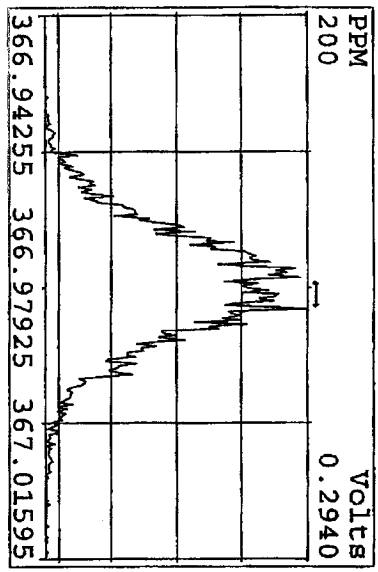
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Experiment: DIOXINRES Function: 1 Reference: PFK



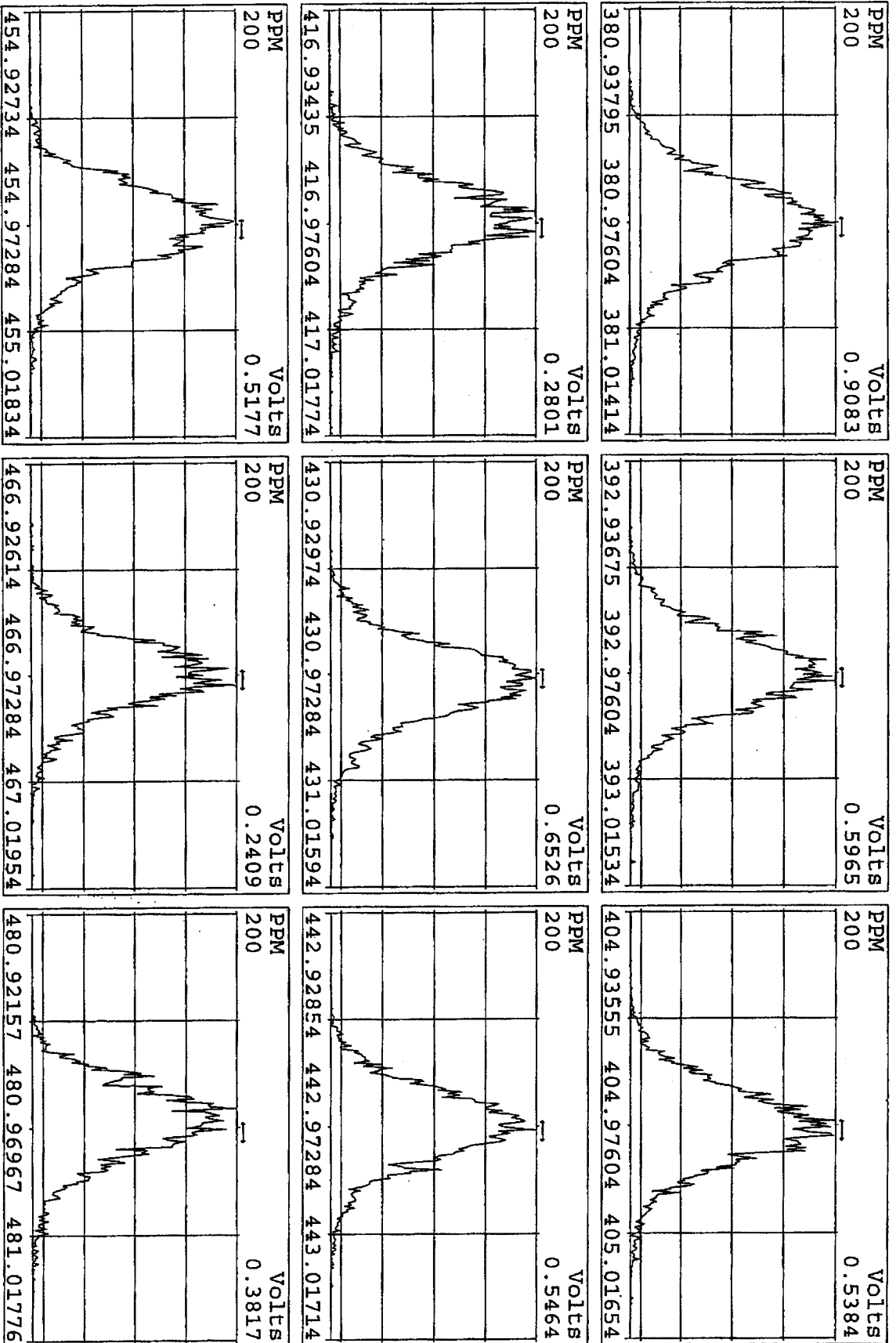
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 Experiment: DIOXINRES Function: 2 Reference: PFK



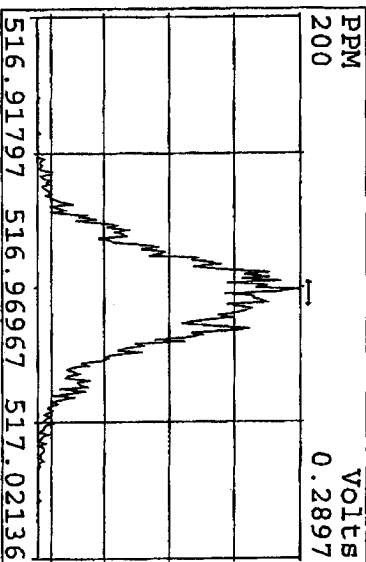
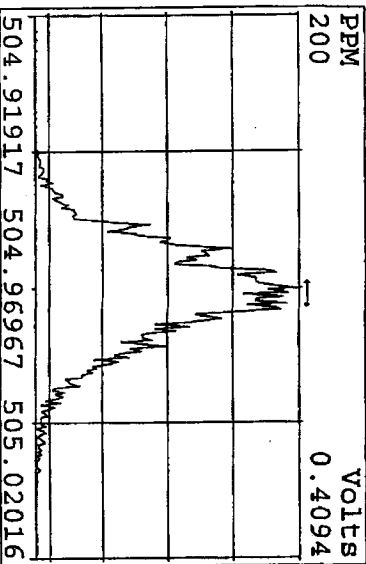
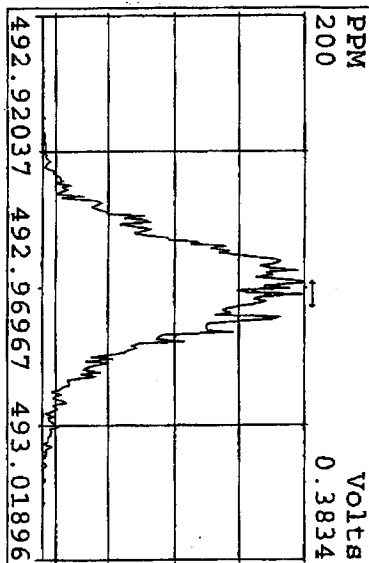
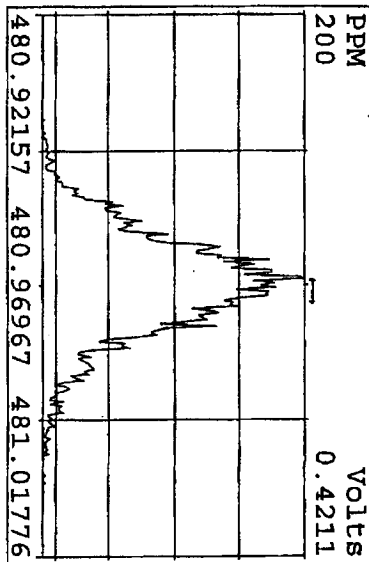
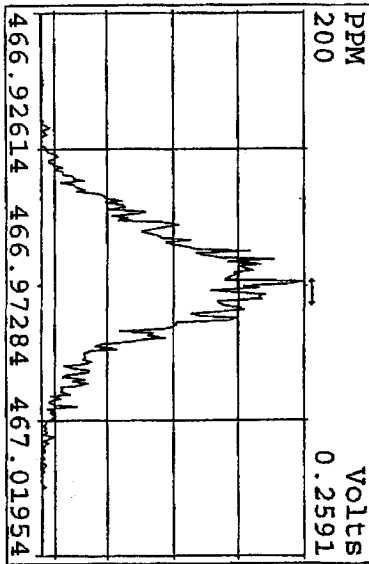
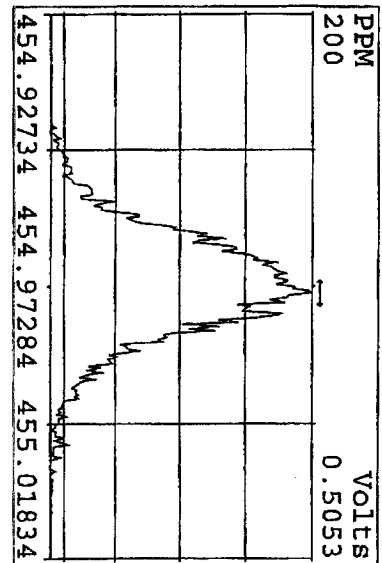
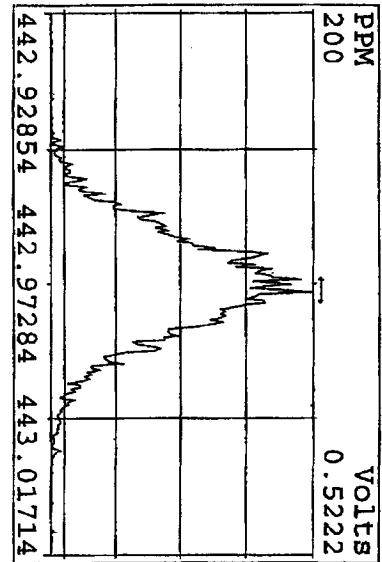
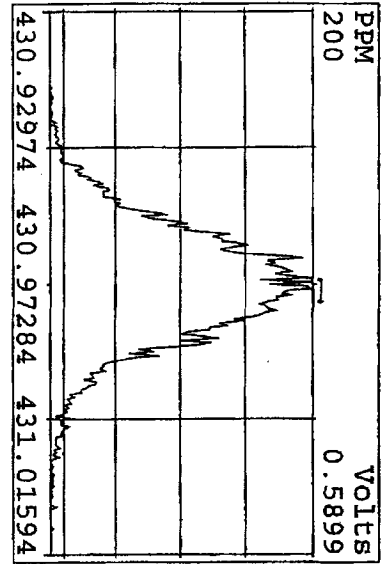
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 Experiment: DIOXINRES Function: 3 Reference: PFK



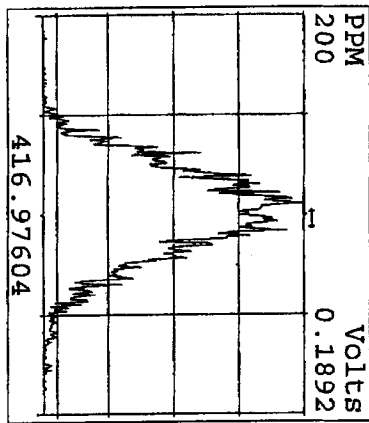
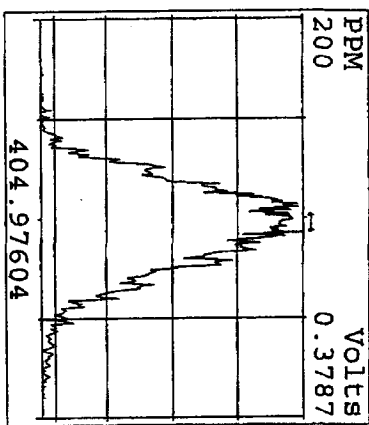
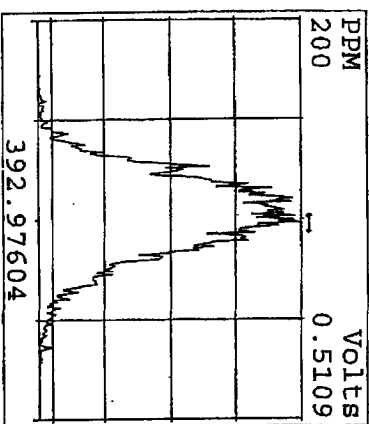
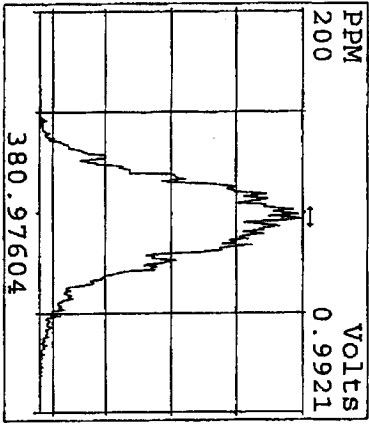
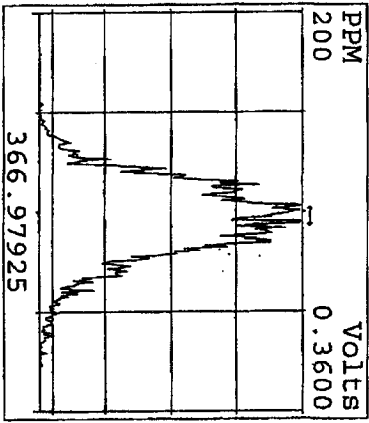
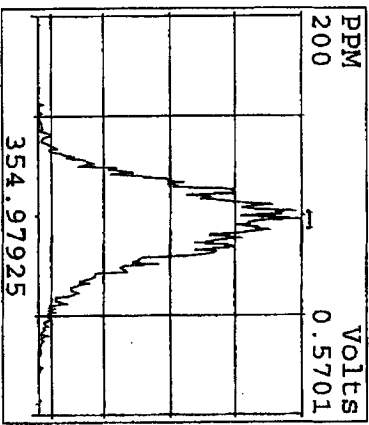
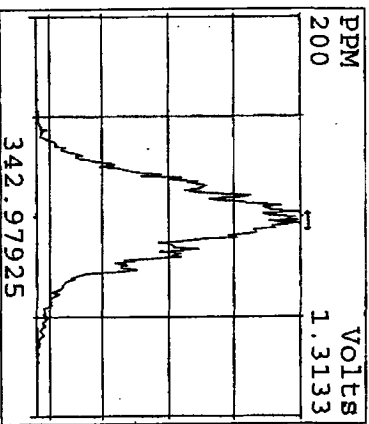
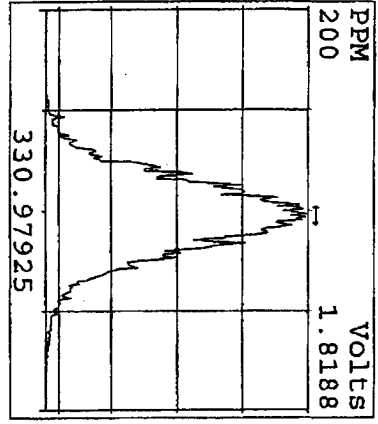
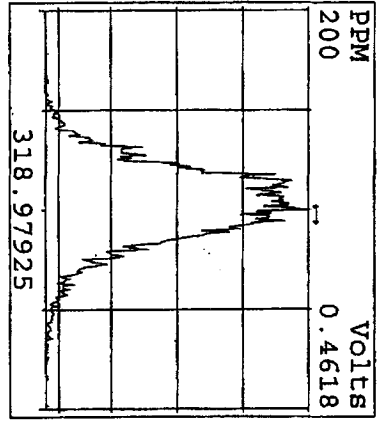
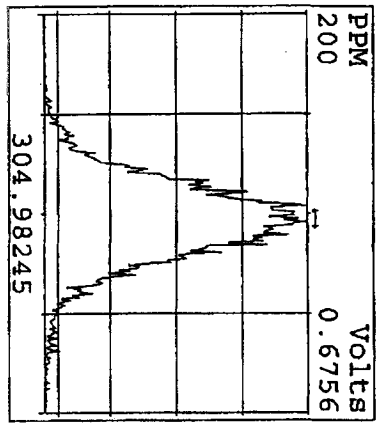
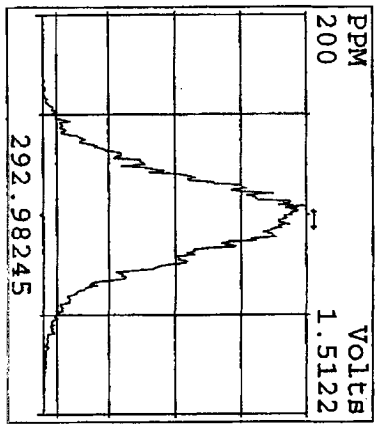
Peak Locate Examination: 21-JUL-2010:14:31 File: 21JUL10A4D5
 Experiment: DIOXINRES Function: 4 Reference: PFK



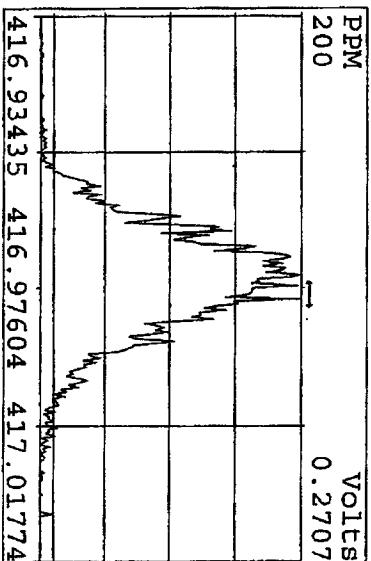
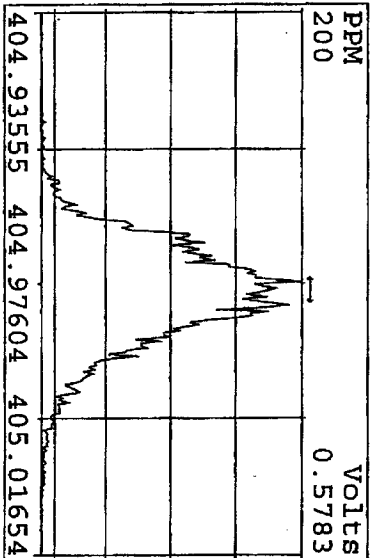
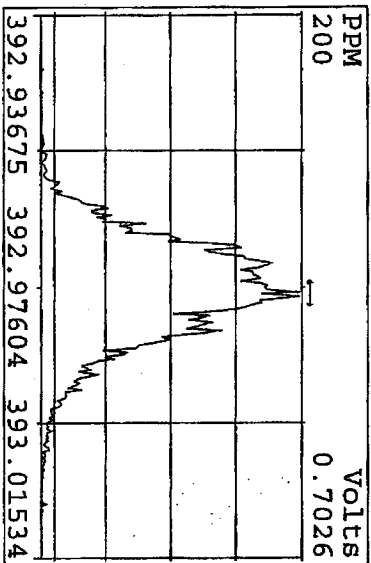
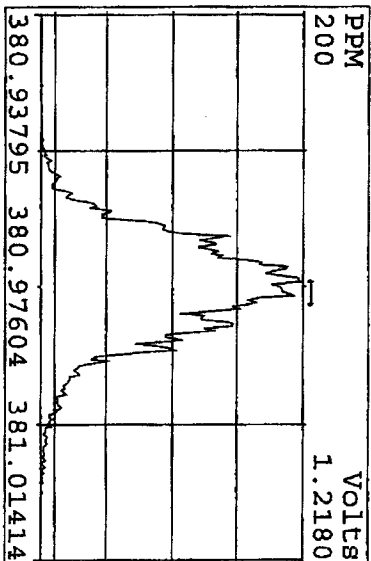
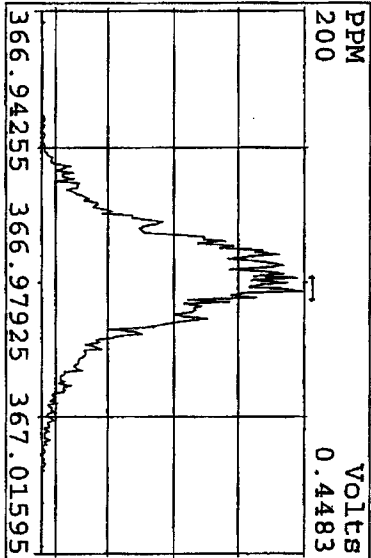
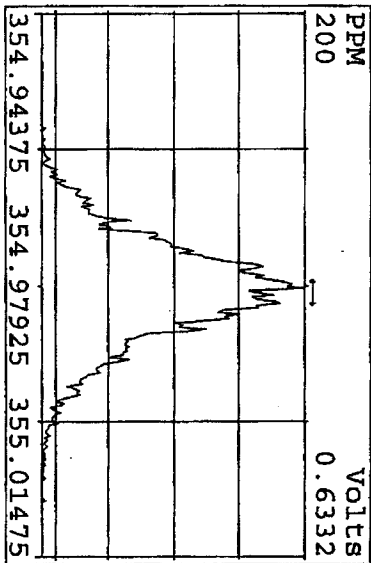
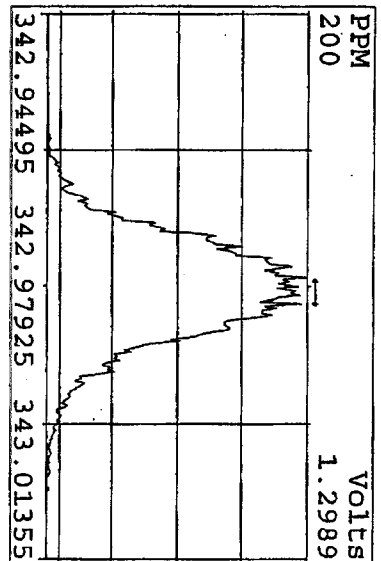
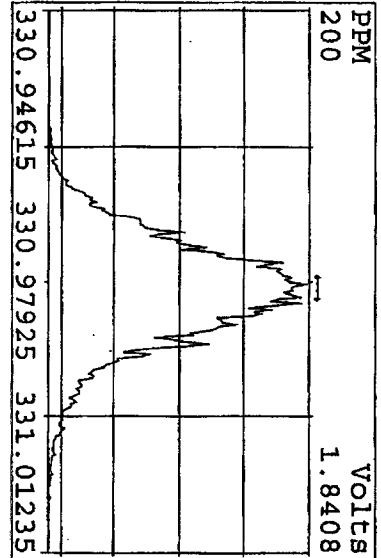
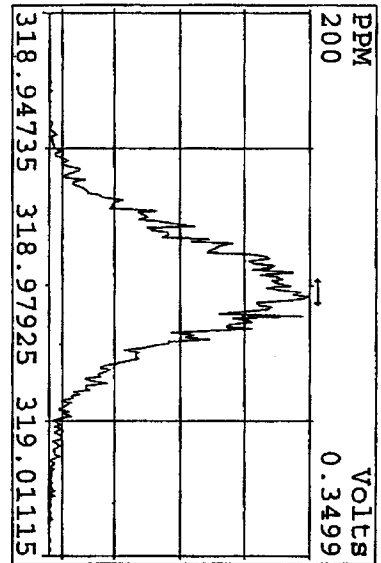
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 Experiment: DIOXINRES Function: 5 Reference: PRK



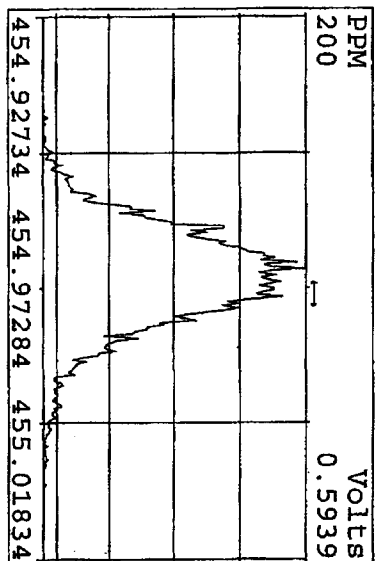
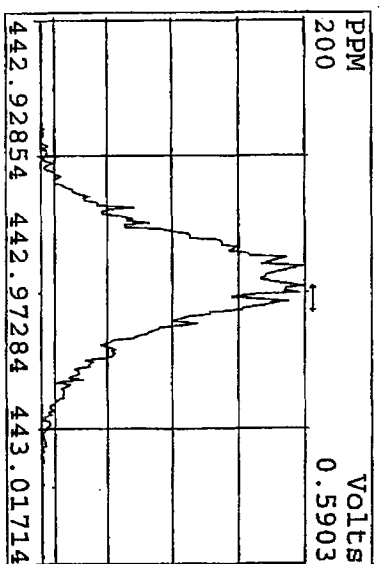
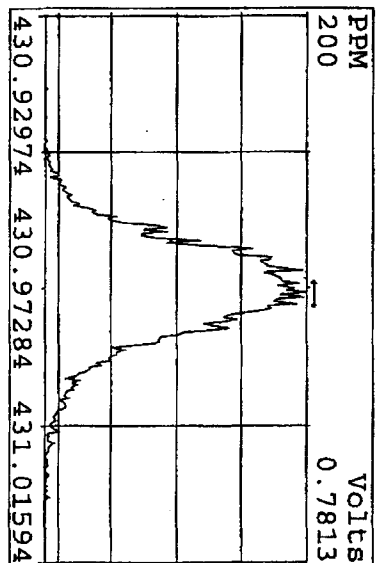
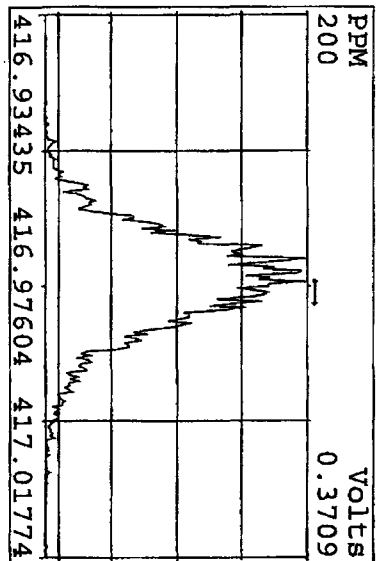
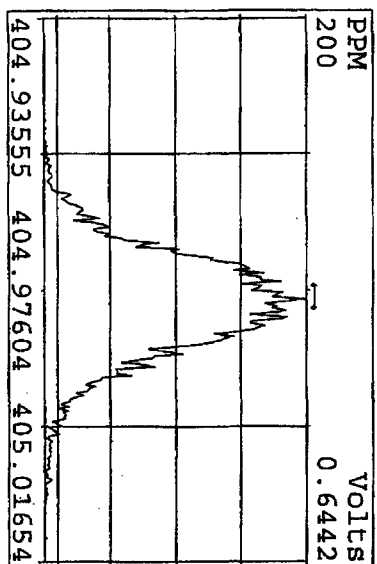
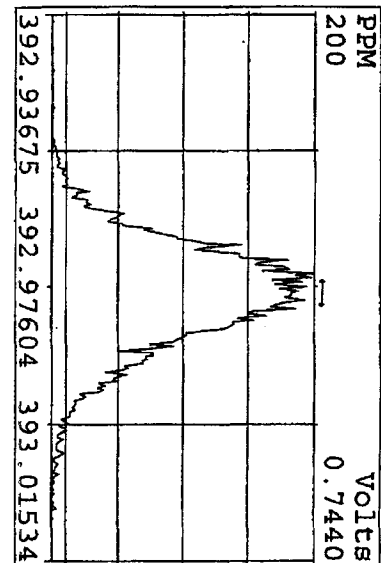
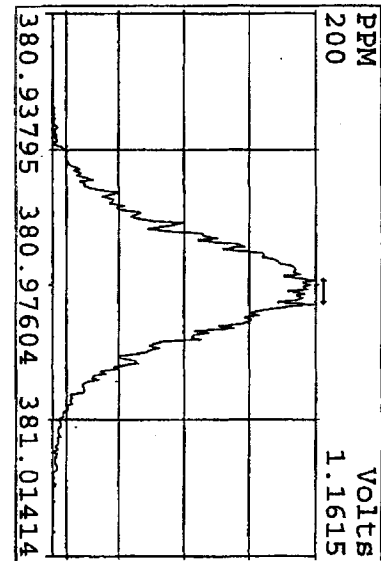
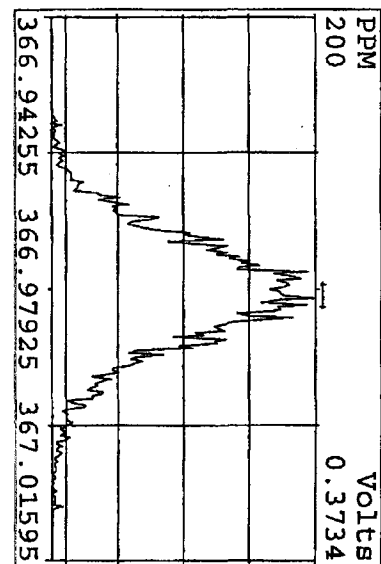
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Experiment: DIOXINRES Function: 1 Reference: PK



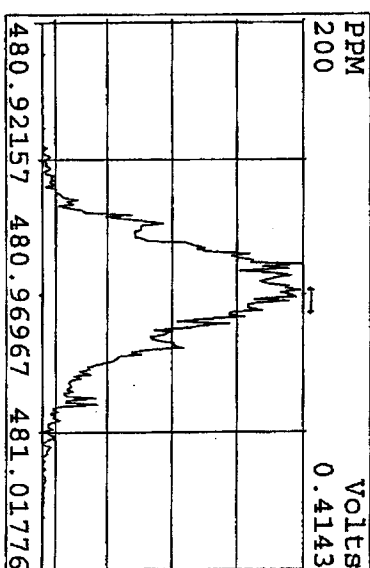
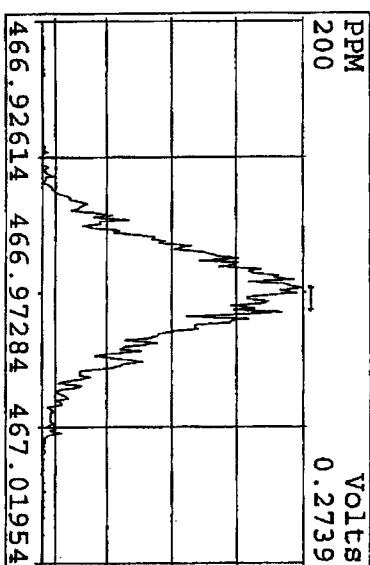
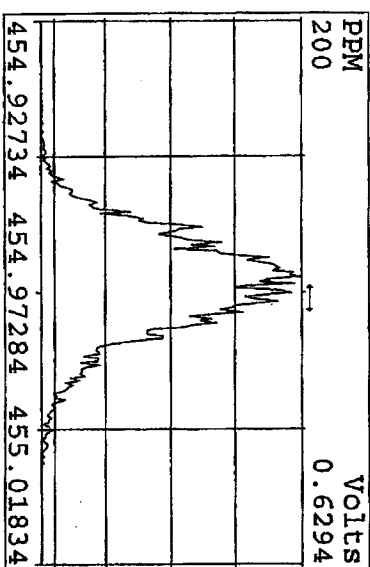
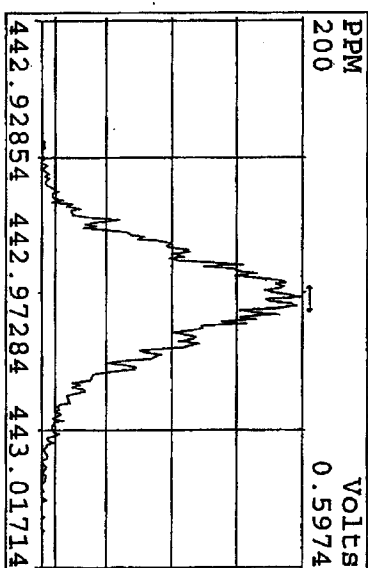
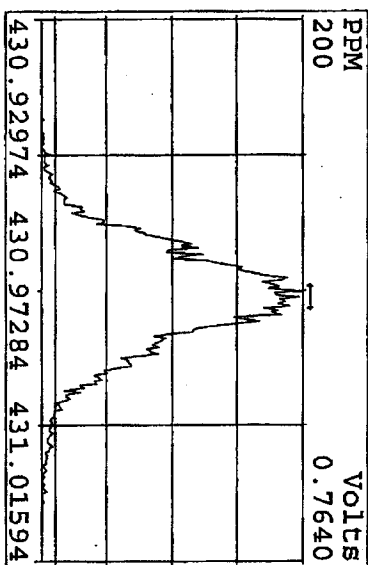
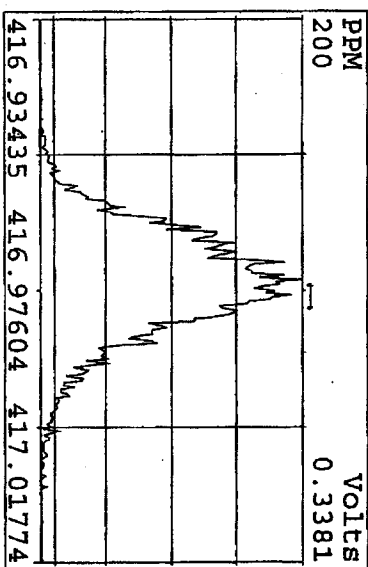
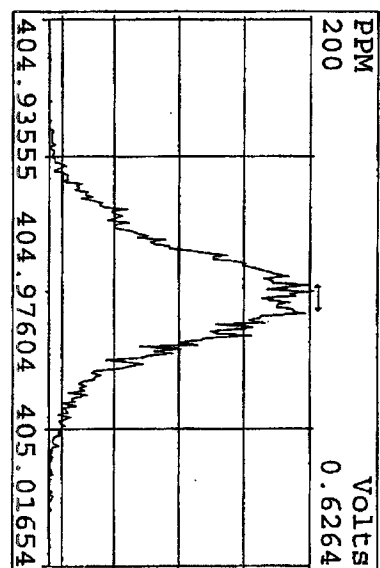
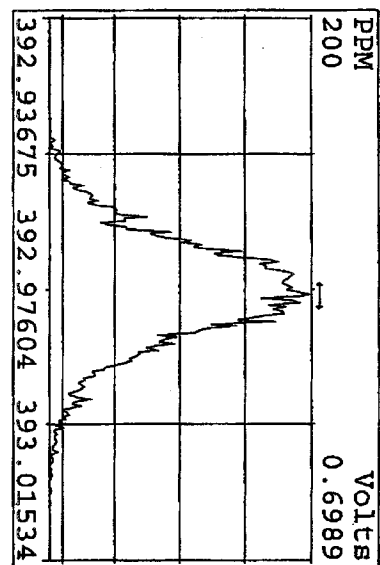
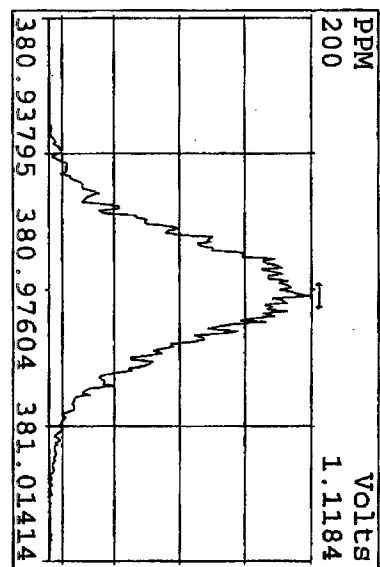
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 Experiment: DIOXINRES Function: 2 Reference: PRK



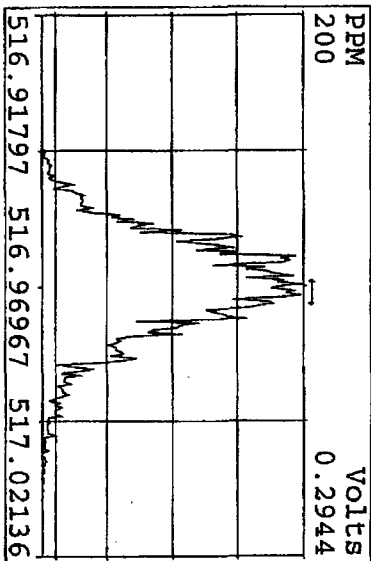
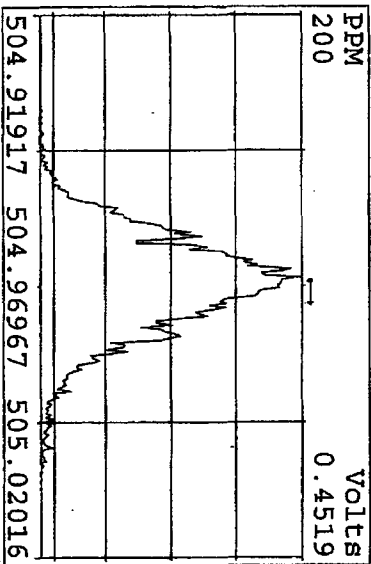
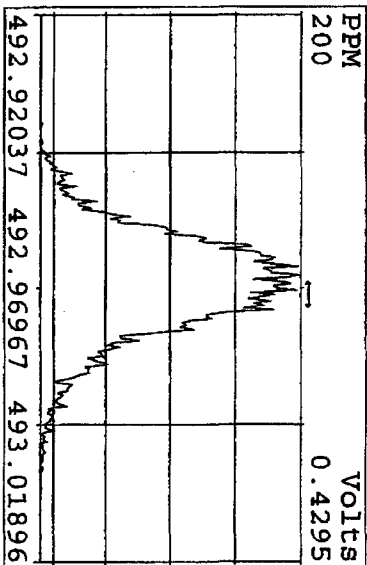
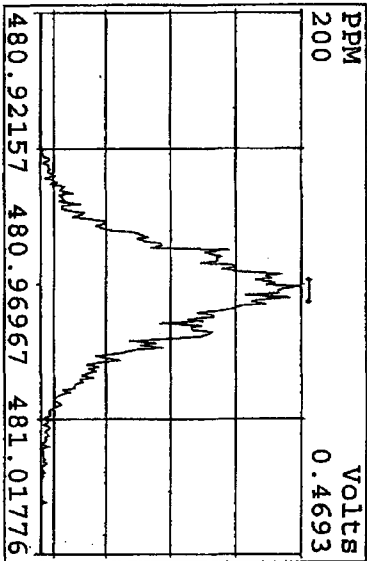
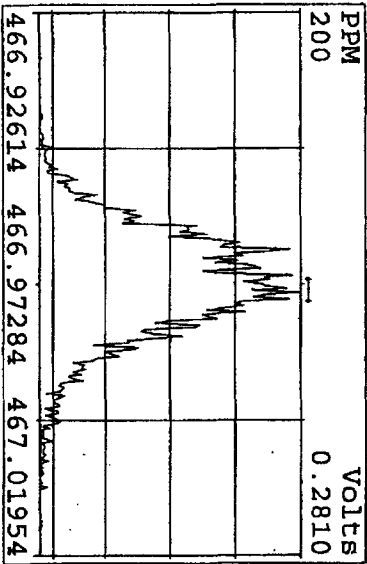
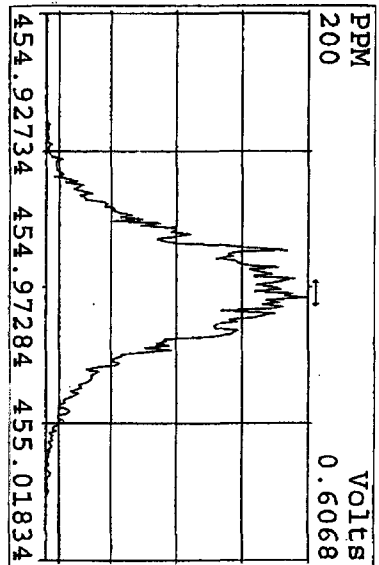
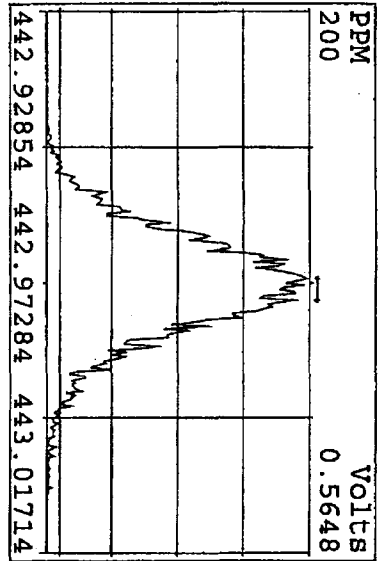
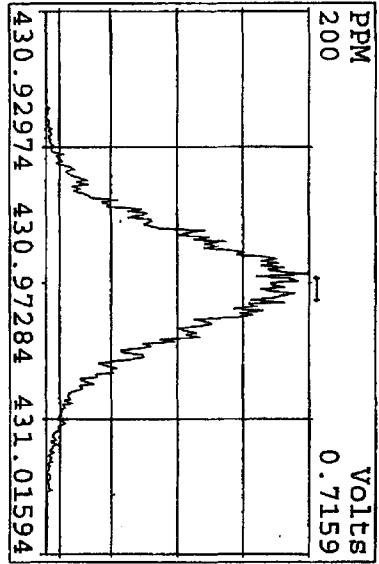
Peak Locate Examination: 21-JUL-2010: 21:40 File: RESCHK21JUL10A4DS
 Experiment: DIOXINRES Function: 3 Reference: PFK



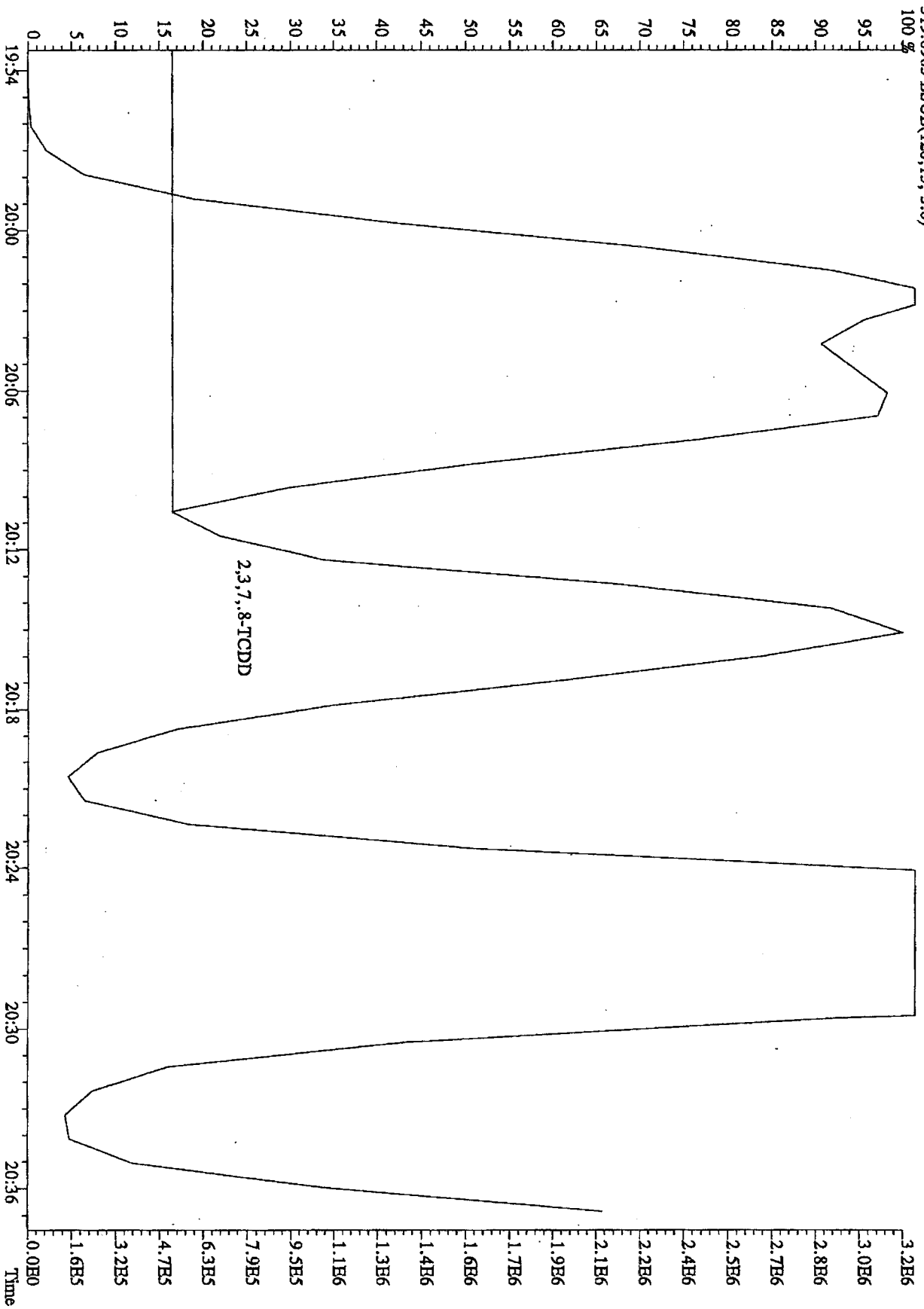
Peak Locate Examination: 21-JUL-2010: 21:41 File: RESCHK21JUL10A4DS
 Experiment: DIOXINRES Function: 4 Reference: PK



Peak Locate Examination: 21-JUL-2010: 21:44 File: RBSCHK21JUL10A4D5
 Experiment: DIOXINRES Function: 5 Reference: PFK



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 14:32:55 GC FI+ Voltage SIR Autospec-UltraB
Sample#1 Exp: DIOXINRES
319.8965 BSUB(128,15,-3,0)



Run text: ST0721F Sample text: ST0721F :2nd Source 10DXN340
 Run #6 Filename: 21JL10A4D5 S: 9 I: 1 Results: 21JL10A4D51613SS
 Acquired: 21-JUL-10 20:34:02 Processed: 22-JUL-10 10:21:57
 Run: 21JL10A4D5 Analyte: 1613 Cal: 16130721104D5
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

Spiked @ 200/500/1000

7/22/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	307629000	0.78 y	20:01	-	92.11	-	-	n
13C-2,3,7,8-TCDF	413901000	0.78 y	19:24	1.23	2188.90	0.92	109.4	n
2,3,7,8-TCDF	38830800	0.76 y	19:25	0.99	188.67	0.48	-	n
Total TCDF	39472107	1.33 n	17:31	0.99	191.78	0.48	-	n
13C-2,3,7,8-TCDD	294375000	0.78 y	20:13	0.91	2114.60	2.32	105.7	n
2,3,7,8-TCDD	27522700	0.81 y	20:14	0.98	190.13	0.52	-	n
Total TCDD	27522700	0.81 y	20:14	0.98	190.13	0.52	-	n
37Cl-2,3,7,8-TCDD	76164600	1.00 y	20:14	1.20	412.65	0.41	103.2	n
13C-1,2,3,7,8-PeCDF	302436000	1.54 y	25:17	0.88	2244.44	1.40	112.2	n
1,2,3,7,8-PeCDF	77546500	1.54 y	25:19	1.08	476.31	1.04	-	n
13C-2,3,4,7,8-PeCDF	271363000	1.54 y	26:49	0.88	2003.66	1.40	100.2	n
2,3,4,7,8-PeCDF	68923500	1.55 y	26:51	1.04	488.17	1.32	-	n
Total F2 PeCDF	149591746	1.40 y	23:44	1.06	985.04	1.17	-	n
Total F1 PeCDF	*	* n	Not Fnd	1.06	*	1.08	-	n
13C-1,2,3,7,8-PeCDD	187042900	1.56 y	27:41	0.66	1840.17	0.85	92.0	n
1,2,3,7,8-PeCDD	41178400	1.55 y	27:43	0.93	475.77	1.23	-	n
Total PeCDD	41347624	2.76 n	25:18	0.93	477.73	1.23	-	n
13C-1,2,3,7,8,9-HxCDD	186030000	1.31 y	33:22	-	78.56	-	-	y
13C-1,2,3,4,7,8-HxCDF	197163100	0.50 y	32:16	1.04	2028.83	4.92	101.4	n
1,2,3,4,7,8-HxCDF	62815000	1.17 y	32:17	1.22	523.47	1.49	-	n
13C-1,2,3,6,7,8-HxCDF	249545100	0.52 y	32:22	1.19	2251.50	4.31	112.6	n
1,2,3,6,7,8-HxCDF	64154700	1.18 y	32:24	1.12	458.58	1.45	-	n
13C-2,3,4,6,7,8-HxCDF	228157700	0.51 y	32:54	1.12	2184.24	4.58	109.2	n
2,3,4,6,7,8-HxCDF	61275400	1.15 y	32:54	1.14	469.19	1.35	-	n
13C-1,2,3,7,8,9-HxCDF	202978100	0.52 y	33:31	1.02	2140.44	5.04	107.0	n
1,2,3,7,8,9-HxCDF	54870000	1.19 y	33:32	1.12	482.01	1.58	-	n
Total HxCDF	243548785	1.21 y	31:03	1.15	1936.68	1.46	-	n
13C-1,2,3,4,7,8-HxCDD	168448700	1.31 y	33:02	0.88	2067.53	1.23	103.4	y
1,2,3,4,7,8-HxCDD	39583500	1.24 y	33:03	0.98	479.57	1.14	-	n
13C-1,2,3,6,7,8-HxCDD	171613300	1.31 y	33:06	0.83	2221.03	1.29	111.1	y
1,2,3,6,7,8-HxCDD	45328400	1.28 y	33:07	1.16	454.27	0.97	-	n
1,2,3,7,8,9-HxCDD	45402600	1.24 y	33:22	1.15	465.05	0.97	-	n
Total HxCDD	130450140	4.93 n	32:18	1.09	1400.35	1.02	-	n
13C-1,2,3,4,6,7,8-HpCDF	182370400	0.43 y	34:53	0.91	2154.51	6.23	107.7	n
1,2,3,4,6,7,8-HpCDF	58068900	1.00 y	34:54	1.35	473.20	1.73	-	n
13C-1,2,3,4,7,8,9-HpCDF	150417500	0.43 y	36:02	0.76	2122.83	7.45	106.1	n
1,2,3,4,7,8,9-HpCDF	47489800	1.02 y	36:03	1.30	483.90	2.38	-	n
Total HpCDF	107404819	1.00 y	34:54	1.33	973.82	2.02	-	n

13C-1,2,3,4,6,7,8-HpCDD	161779300	0.96	y	35:42	0.83	2104.12		5.07	105.2	n
1,2,3,4,6,7,8-HpCDD	42052300	1.04	y	35:43	1.07	485.09	97%	1.80	-	n
Total HpCDD	43164489	1.03	y	35:09	1.07	497.92		1.80	-	n
13C-OCDD	265623000	0.89	y	38:16	0.62	4606.72		4.74	115.2	n
OCDF	85350600	0.91	y	38:23	1.37	937.96	93.8%	1.38	-	n
OCDD	74923500	0.91	y	38:16	1.20	940.76	94%	1.58	-	n

Quantitation Summary

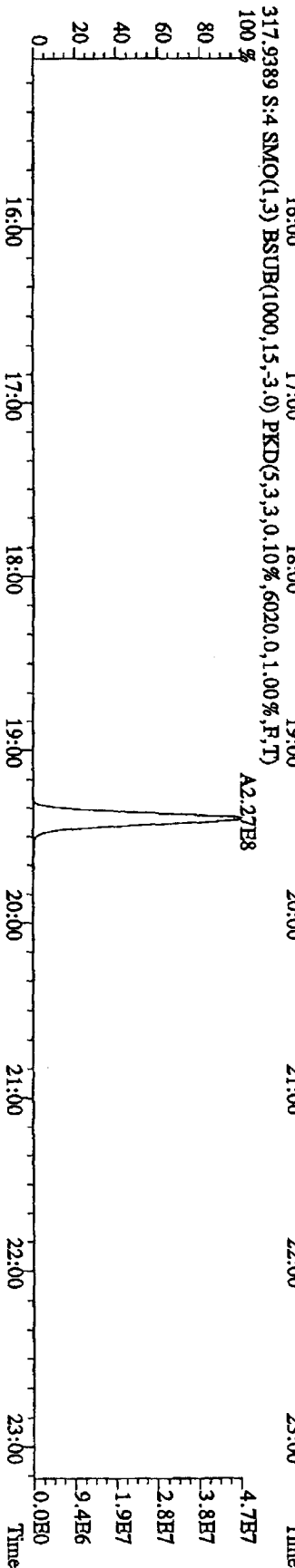
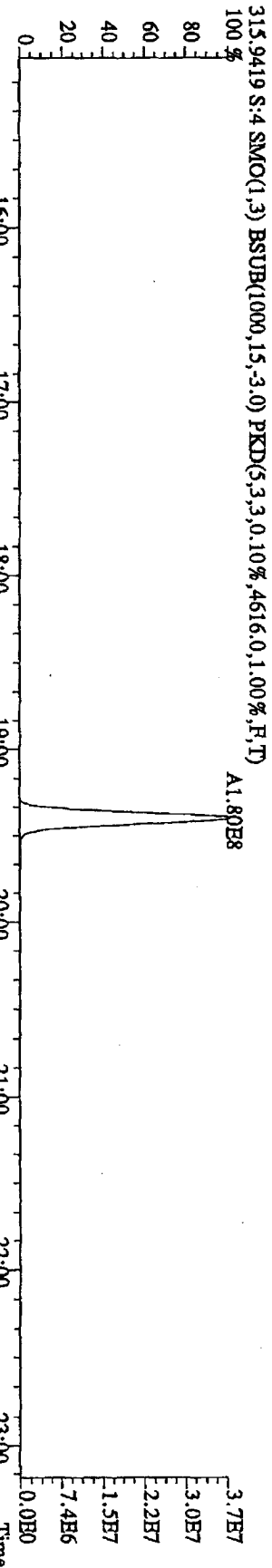
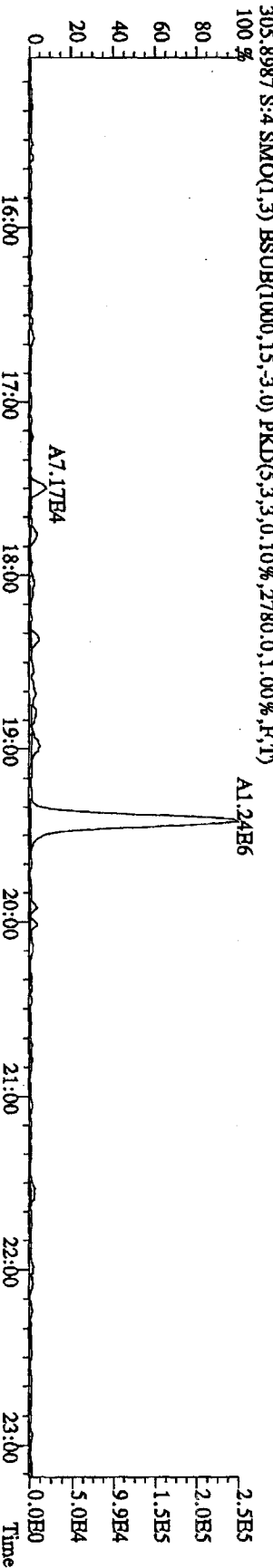
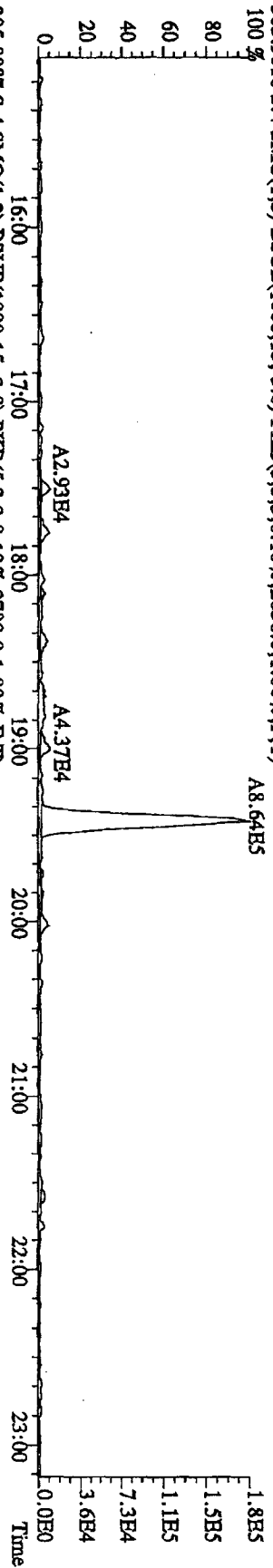
TestAmerica West Sacramento

Run text: ST0721F Sample text: ST0721F :2nd Source 10DXN340
 Run #6 Filename: 21JL10A4D5 S: 9 I: 1 Results: 21JL10A4D51613SS
 Acquired: 21-JUL-10 20:34:02 Processed: 22-JUL-10 10:21:57
 Run: 21JL10A4D5 Analyte: 1613 Cal: 16130721104D5
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

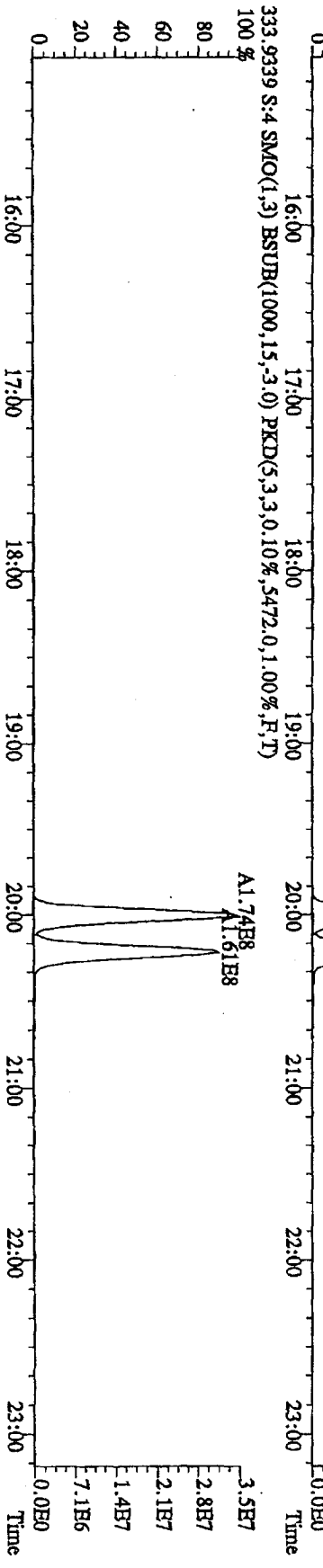
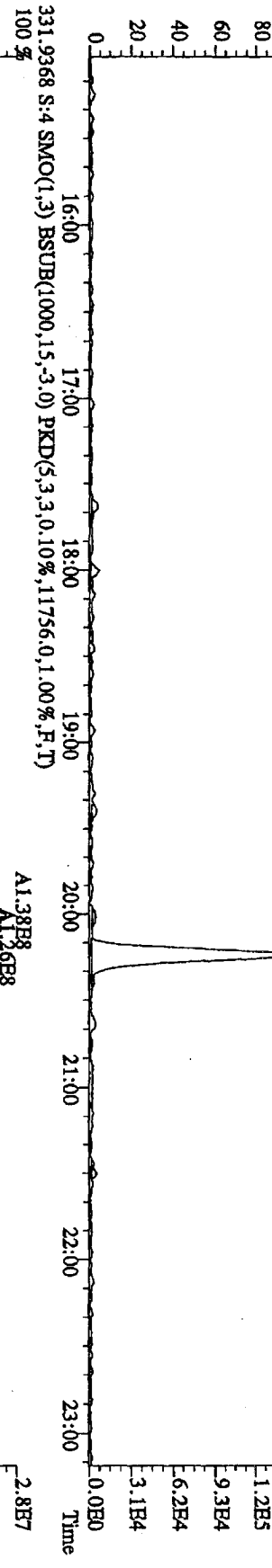
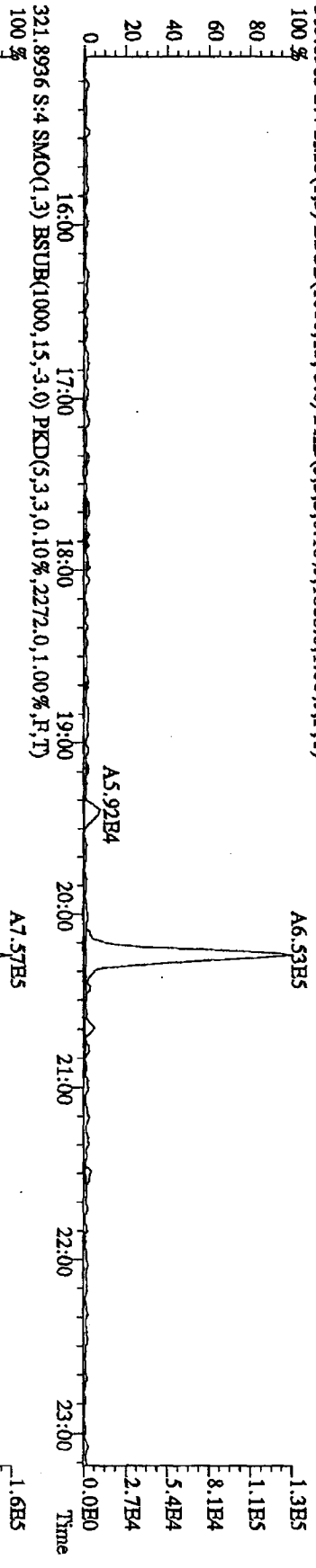
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	307629000	0.78 y	20:01	-	92.11	-	-	n
13C-2,3,7,8-TCDF	413901000	0.78 y	19:24	1.23	2188.90	0.92	109.4	n
2,3,7,8-TCDF	38830800	0.76 y	19:25	0.99	188.67	0.48	-	n
Total TCDF	39472107	1.33 n	17:31	0.99	191.78	0.48	-	n
13C-2,3,7,8-TCDD	294375000	0.78 y	20:13	0.91	2114.60	2.32	105.7	n
2,3,7,8-TCDD	27522700	0.81 y	20:14	0.98	190.13	0.52	-	n
Total TCDD	27522700	0.81 y	20:14	0.98	190.13	0.52	-	n
37Cl-2,3,7,8-TCDD	76164600	1.00 y	20:14	1.20	412.65	0.41	103.2	n
13C-1,2,3,7,8-PeCDF	302436000	1.54 y	25:17	0.88	2244.44	1.40	112.2	n
1,2,3,7,8-PeCDF	77546500	1.54 y	25:19	1.08	476.31	1.04	-	n
13C-2,3,4,7,8-PeCDF	271363000	1.54 y	26:49	0.88	2003.66	1.40	100.2	n
2,3,4,7,8-PeCDF	68923500	1.55 y	26:51	1.04	488.17	1.32	-	n
Total F2 PeCDF	149591746	1.40 y	23:44	1.06	985.04	1.17	-	n
Total F1 PeCDF	*	* n	NotFnd	1.06	*	1.08	-	n
13C-1,2,3,7,8-PeCDD	187042900	1.56 y	27:41	0.66	1840.17	0.85	92.0	n
1,2,3,7,8-PeCDD	41178400	1.55 y	27:43	0.93	475.77	1.23	-	n
Total PeCDD	41347624	2.76 n	25:18	0.93	477.73	1.23	-	n
13C-1,2,3,7,8,9-HxCDD	186073000	1.31 y	33:22	-	78.58	-	-	n
13C-1,2,3,4,7,8-HxCDF	197163100	0.50 y	32:16	1.04	2028.36	4.92	101.4	n
1,2,3,4,7,8-HxCDF	62815000	1.17 y	32:17	1.22	523.47	1.49	-	n
13C-1,2,3,6,7,8-HxCDF	249545100	0.52 y	32:22	1.19	2250.98	4.31	112.5	n
1,2,3,6,7,8-HxCDF	64154700	1.18 y	32:24	1.12	458.58	1.45	-	n
13C-2,3,4,6,7,8-HxCDF	228157700	0.51 y	32:54	1.12	2183.74	4.58	109.2	n
2,3,4,6,7,8-HxCDF	61275400	1.15 y	32:54	1.14	469.19	1.35	-	n
13C-1,2,3,7,8,9-HxCDF	202978100	0.52 y	33:31	1.02	2139.94	5.04	107.0	n
1,2,3,7,8,9-HxCDF	54870000	1.19 y	33:32	1.12	482.01	1.58	-	n
Total HxCDF	243548785	1.21 y	31:03	1.15	1936.68	1.46	-	n
13C-1,2,3,4,7,8-HxCDD	151949728	1.50 n	33:02	0.88	1864.59	1.23	93.2	n
1,2,3,4,7,8-HxCDD	39583500	1.24 y	33:03	0.98	531.65	1.26	-	n
13C-1,2,3,6,7,8-HxCDD	170186500	1.15 y	33:06	0.83	2202.05	1.29	110.1	n
1,2,3,6,7,8-HxCDD	45328400	1.28 y	33:07	1.16	458.08	0.97	-	n
1,2,3,7,8,9-HxCDD	45402600	1.24 y	33:22	1.15	490.93	1.03	-	n
Total HxCDD	130450140	4.93 n	32:18	1.09	1482.19	1.08	-	n
13C-1,2,3,4,6,7,8-HpCDF	182370400	0.43 y	34:53	0.91	2154.02	6.23	107.7	n
1,2,3,4,6,7,8-HpCDF	58068900	1.00 y	34:54	1.35	473.20	1.73	-	n
13C-1,2,3,4,7,8,9-HpCDF	150417500	0.43 y	36:02	0.76	2122.34	7.45	106.1	n
1,2,3,4,7,8,9-HpCDF	47489800	1.02 y	36:03	1.30	483.90	2.38	-	n
Total HpCDF	107404819	1.00 y	34:54	1.33	973.82	2.02	-	n

13C-1,2,3,4,6,7,8-HpCDD	161779300	0.96	y	35:42	0.83	2103.64	5.07	105.2	n
1,2,3,4,6,7,8-HpCDD	42052300	1.04	y	35:43	1.07	485.09	1.80	-	n
Total HpCDD	43164489	1.03	y	35:09	1.07	497.92	1.80	-	n
13C-OCDD	265623000	0.89	y	38:16	0.62	4605.66	4.74	115.1	n
OCDF	85350600	0.91	y	38:23	1.37	937.96	1.38	-	n
OCDD	74923500	0.91	y	38:16	1.20	940.76	1.58	-	n

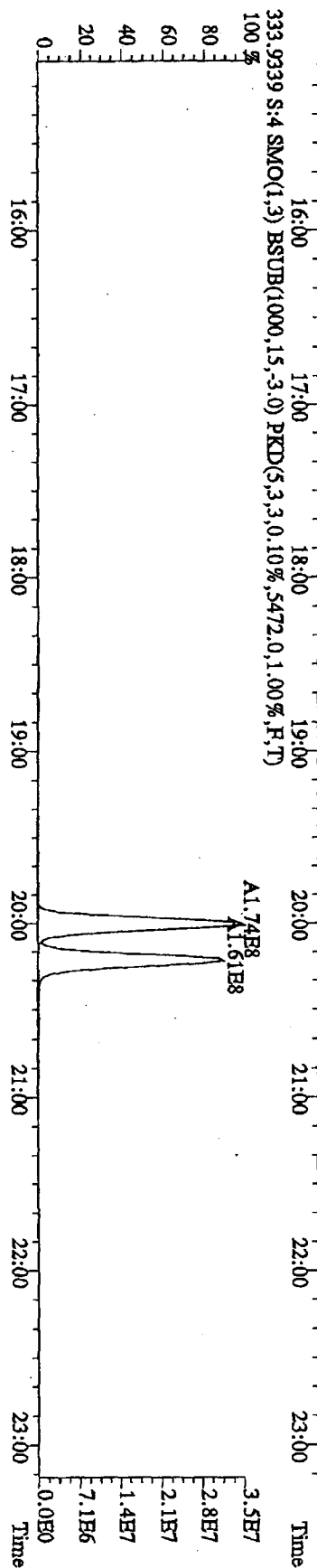
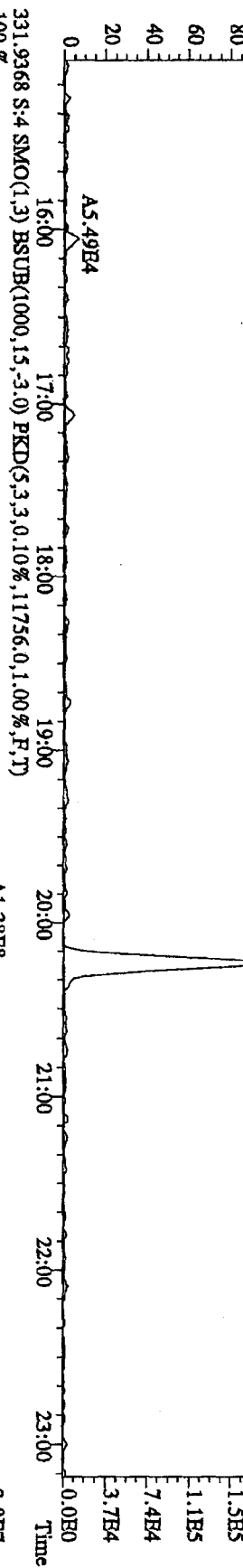
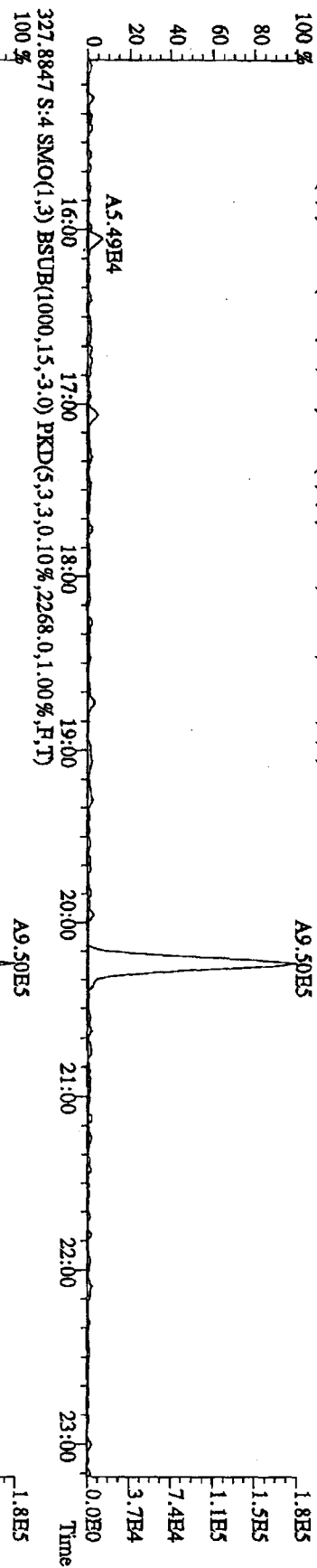
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DI0XINRBS
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1868.0,1.00%,F,T)



File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#4 Text: ST0721A : CS-1 10DXN342 Exp: DIOXINRBS
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2268,0,1,00%,F,T)
 100%



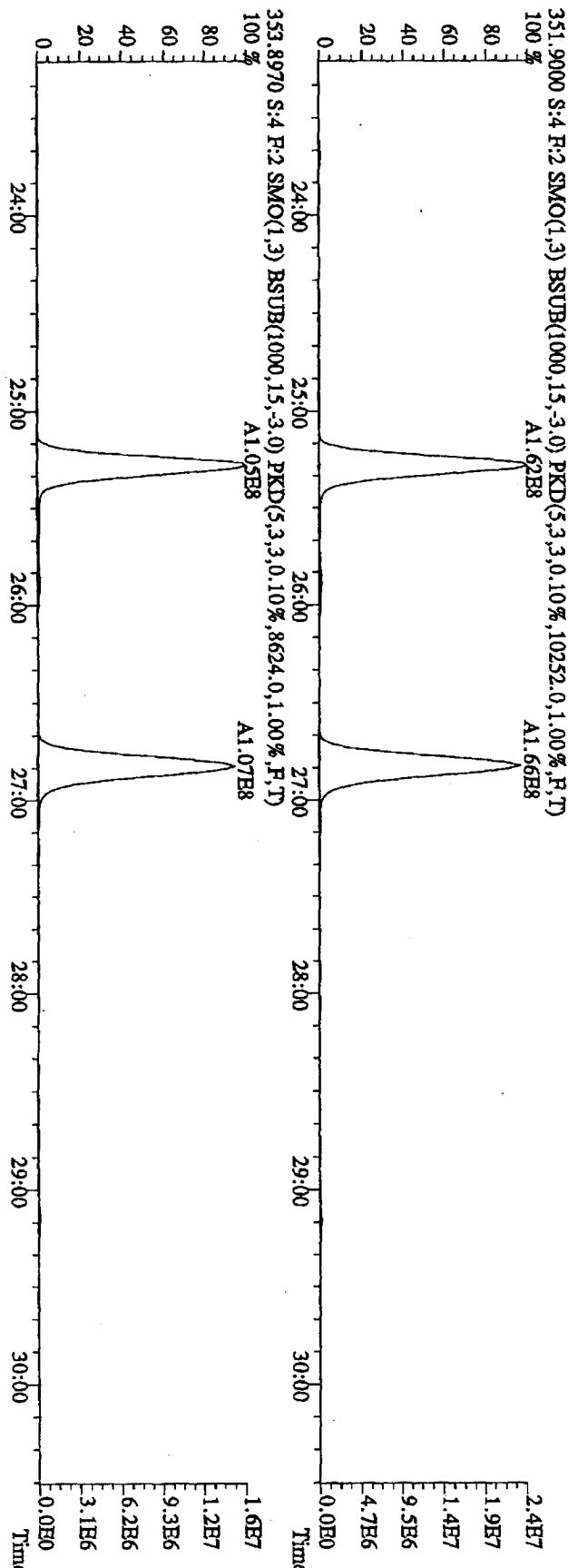
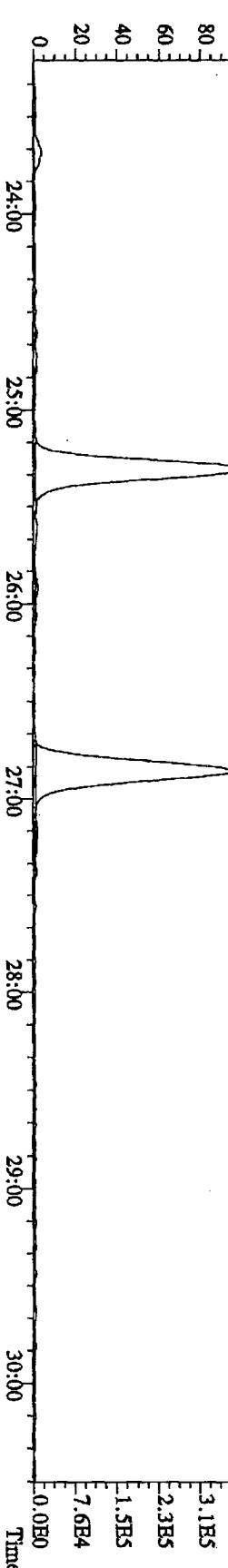
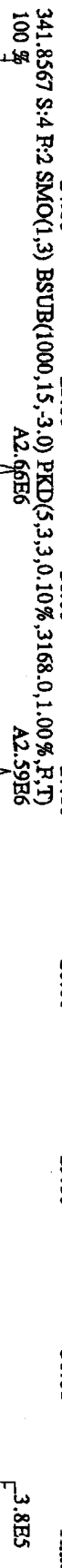
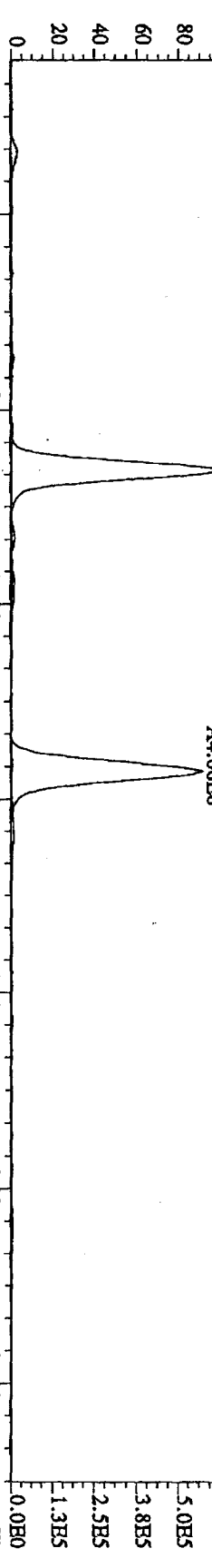
File: 21JUL10A4D5 #1-469 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text: ST0721A

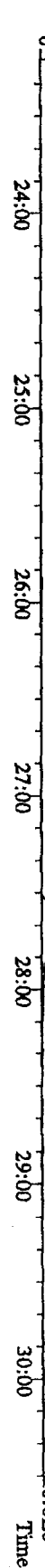
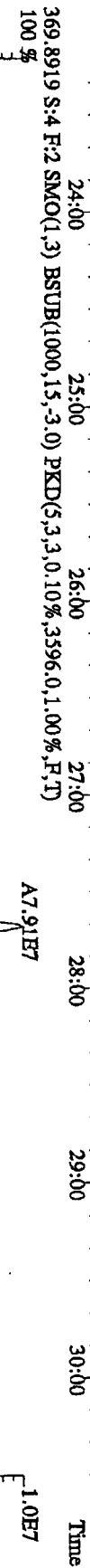
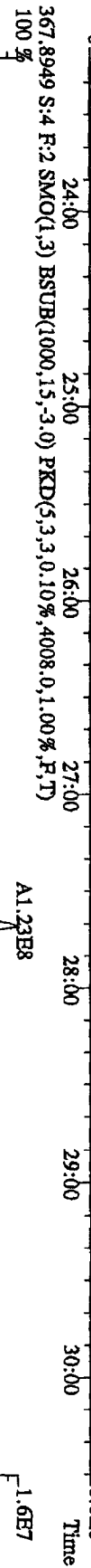
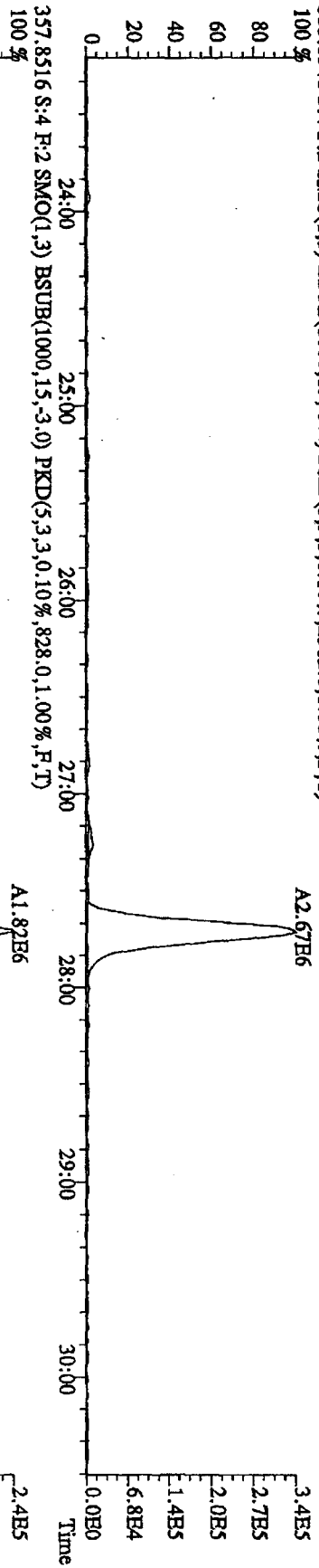
: CS-1 10DXN342

Exp: DIOXINRB

339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2180,0,1,00%,F,T)

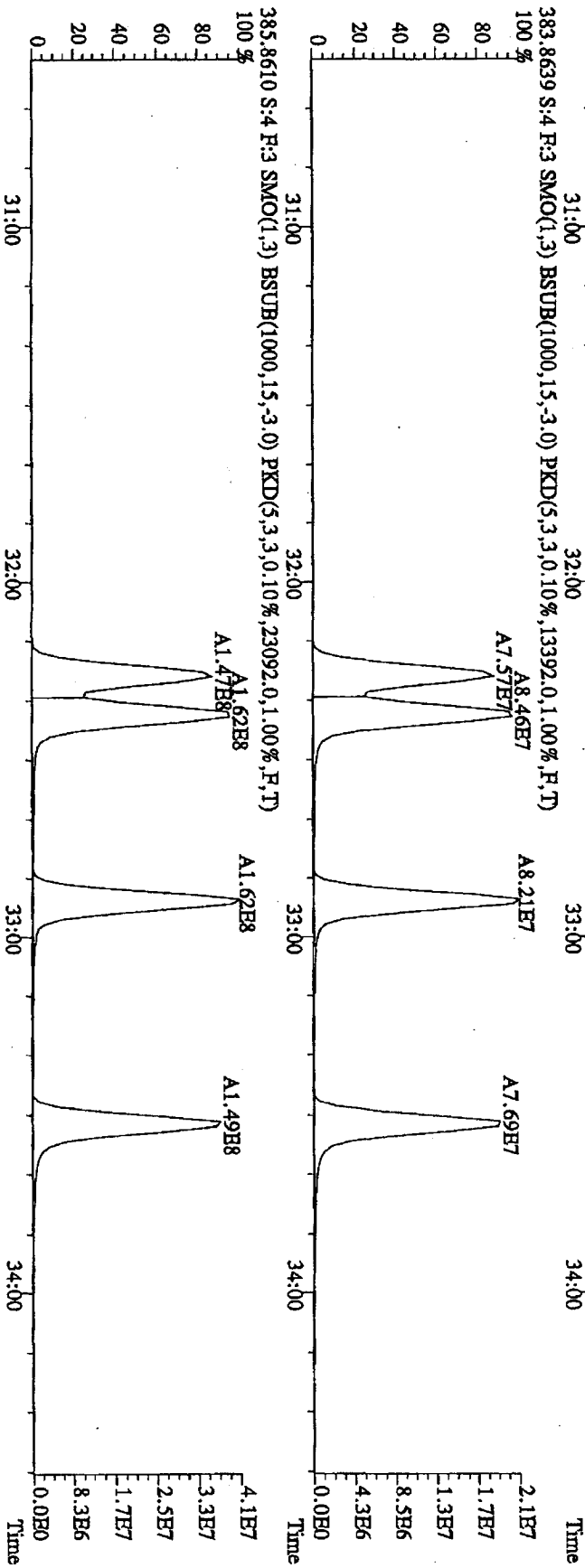
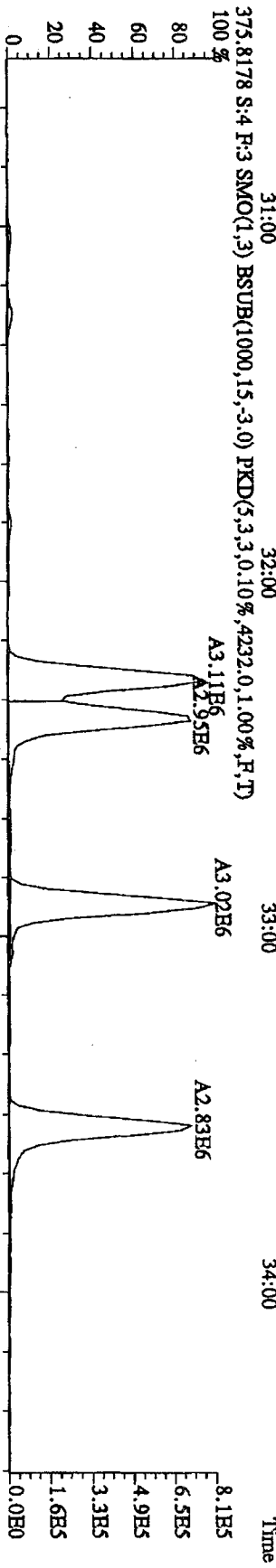
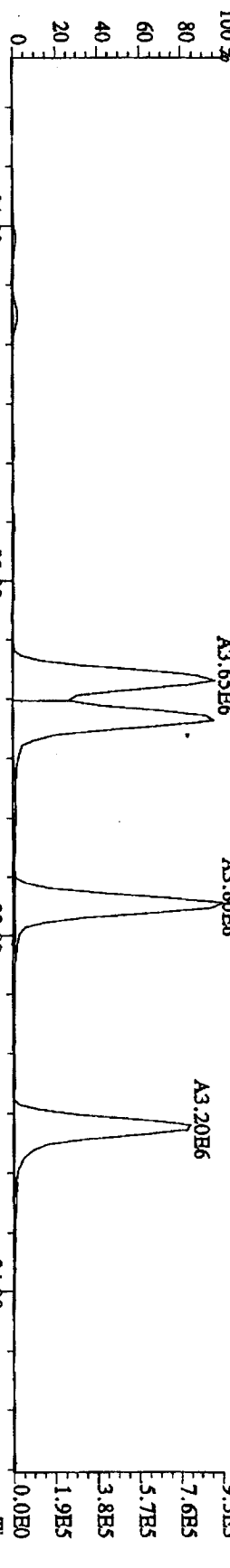


File:21JUL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC RI+ Voltage STR Autospec-Ultimate
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
 357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKID(5,3,3,0.10%,828,0,1.00%,F,T)
 100%

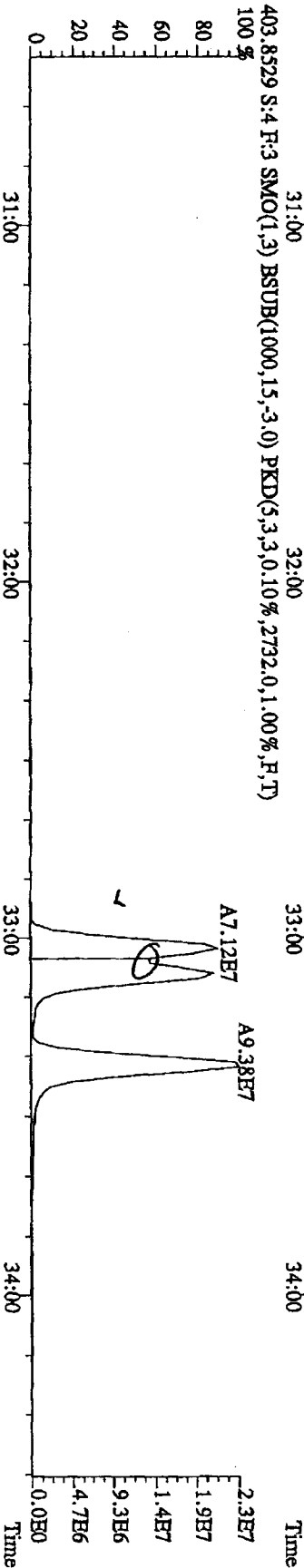
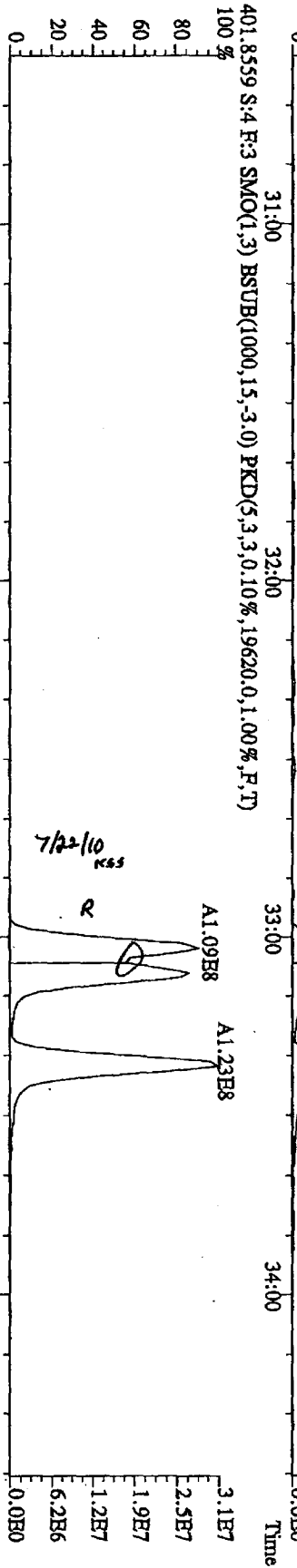
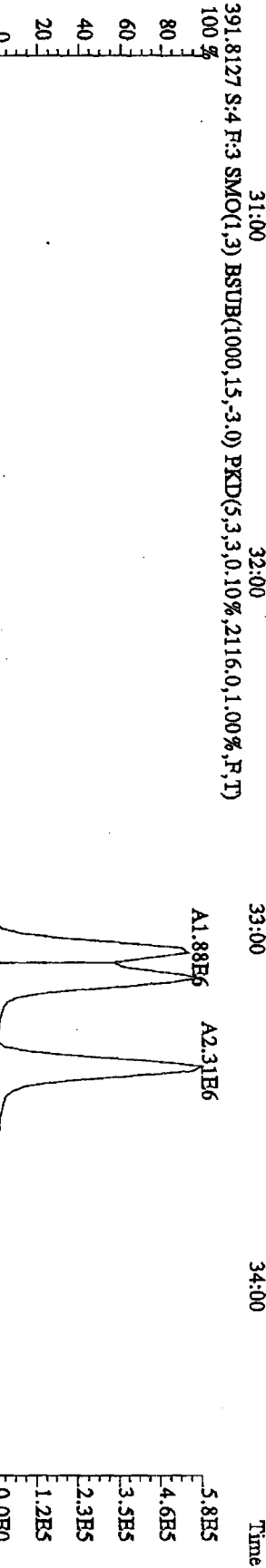
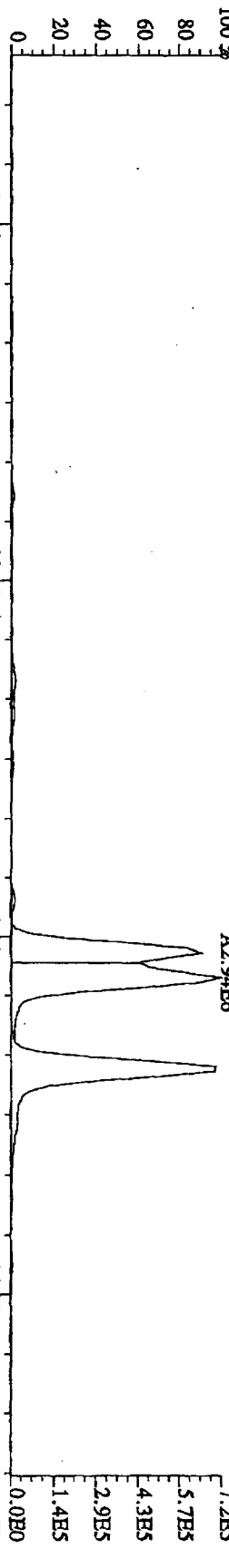


File:2JUL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaB

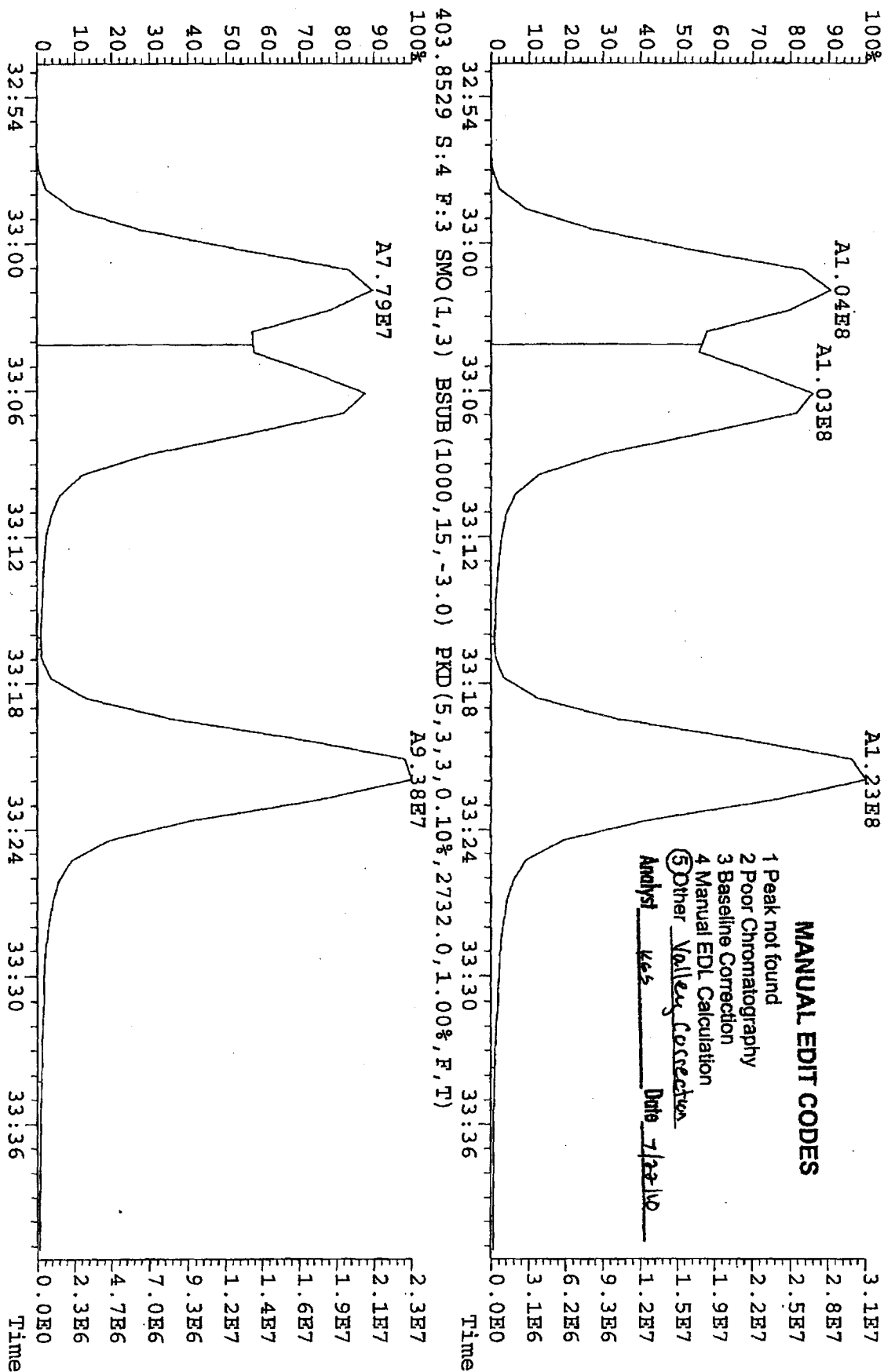
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage S1R Autospec-UltimaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1412.0,1.00%,F,T)



File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: ST0721A : CS-1 10DXN342 Exp: DIOXINRES
 401.8559 S: 4 F: 3 SMO(1, 3) BSUB(1000, 15, -3.0) PKD(5, 3, 3, 0.10%, 19620.0, 1.00%, F, T)

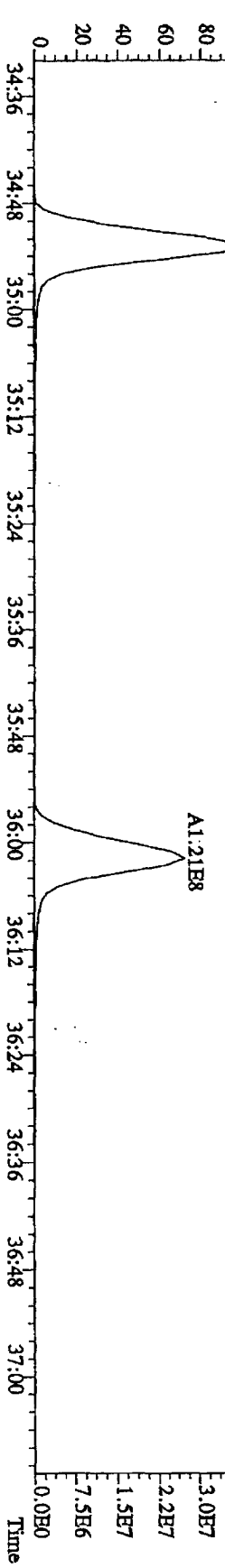
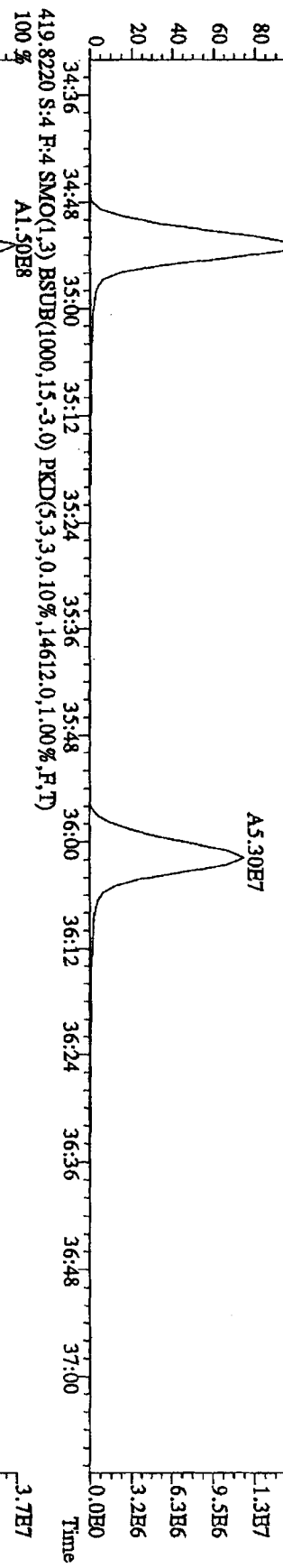
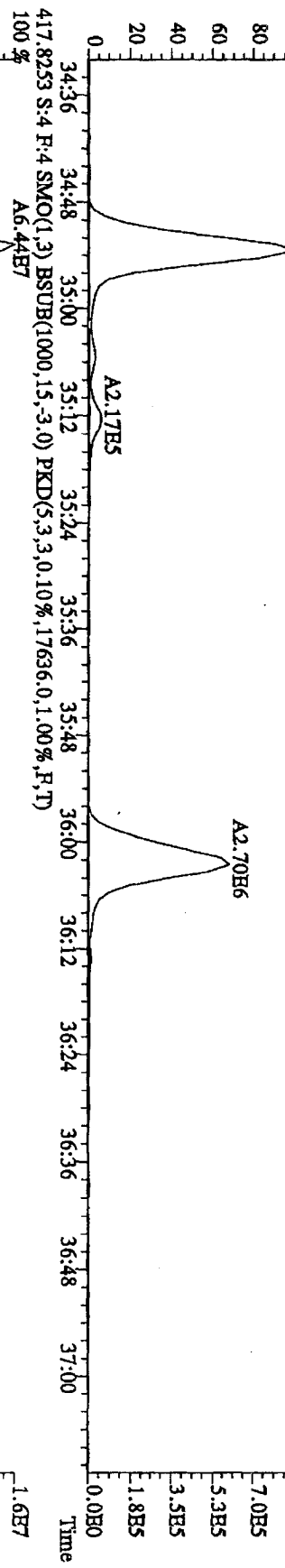
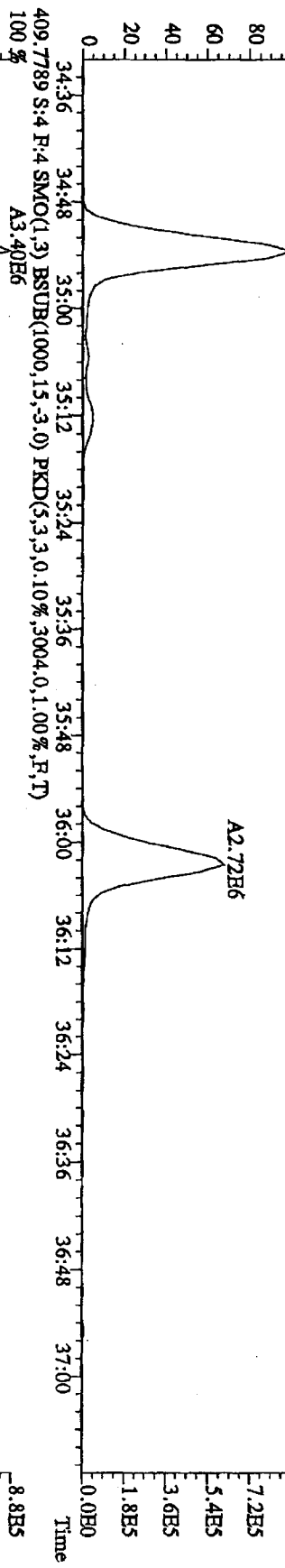


MANUAL EDIT CODES

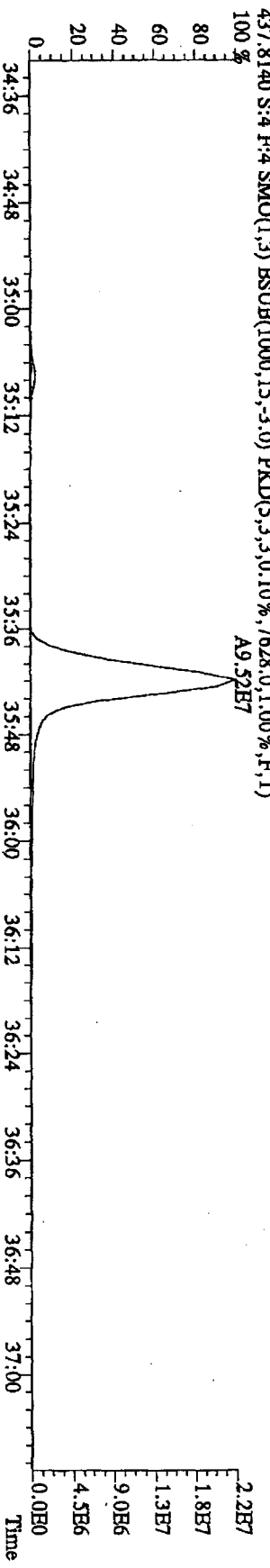
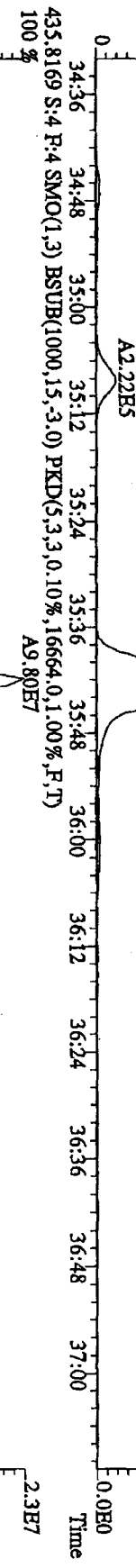
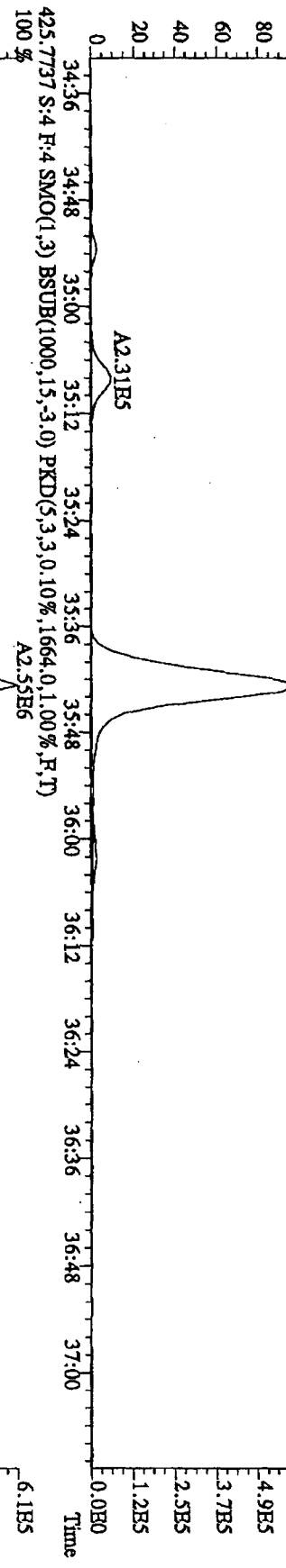
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Dimer Valley Correction

Analyst kes Date 7/22/10

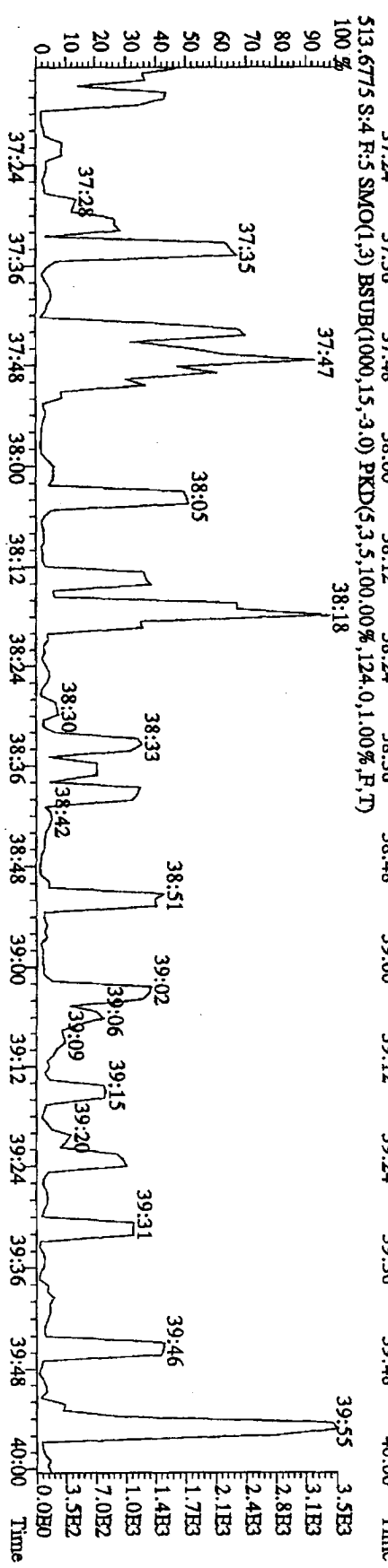
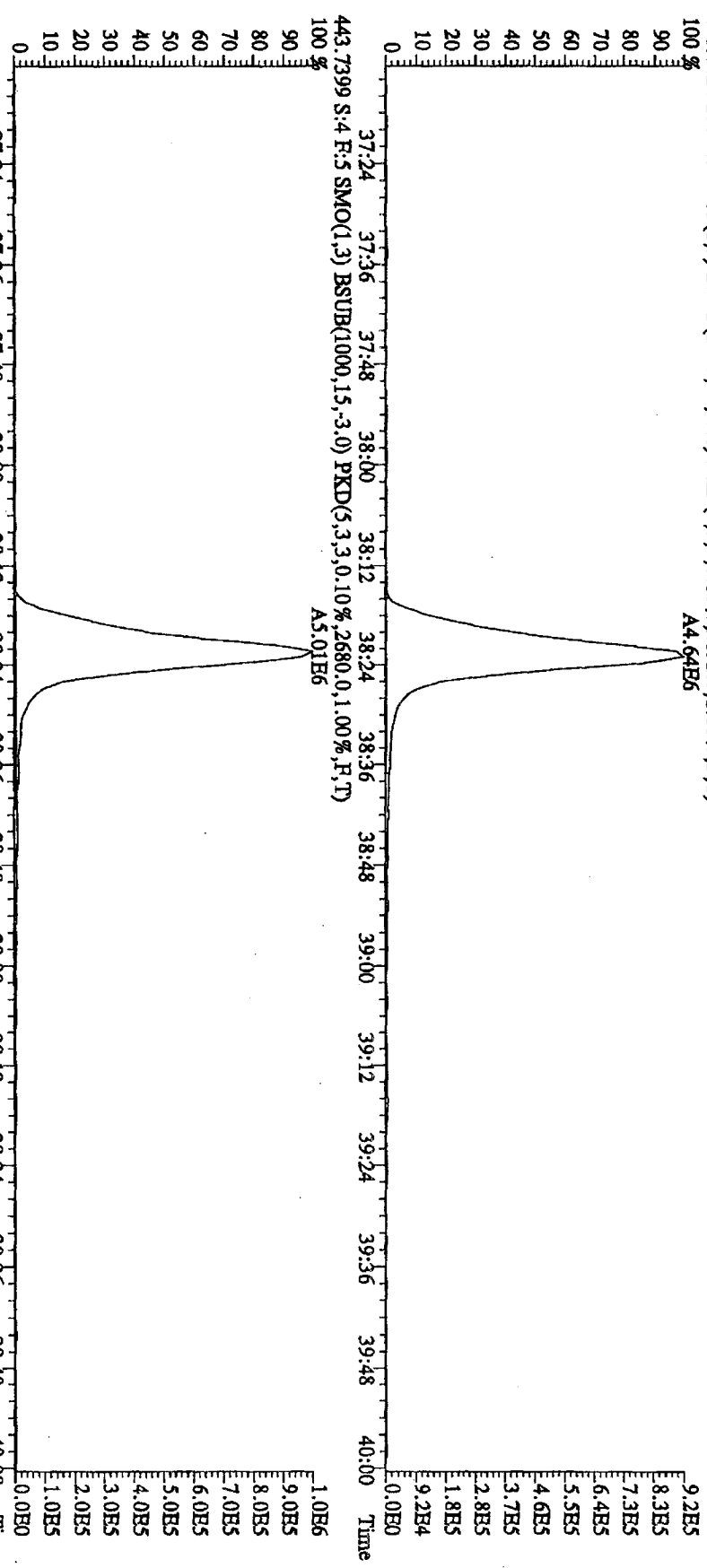
File:21JUL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage 51V Autospec-Ultimate
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
 407.7818 S:4 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3388,0.1,0.0%,F,T)
 100 %



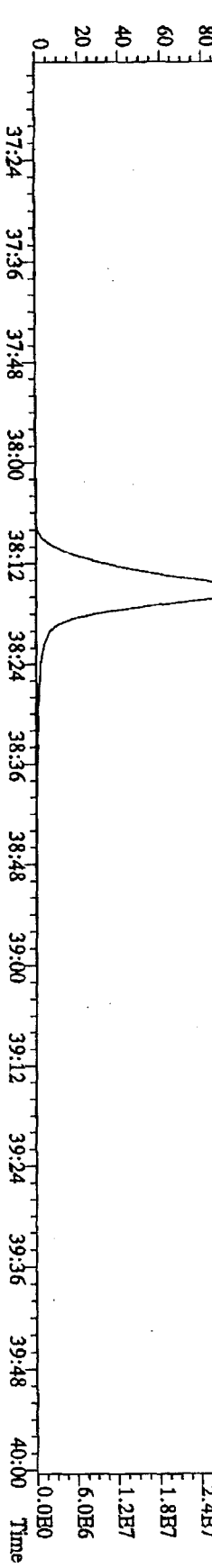
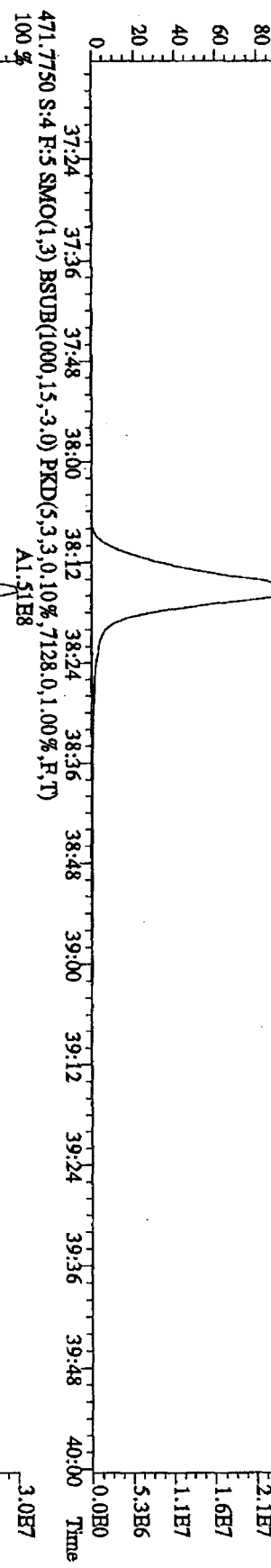
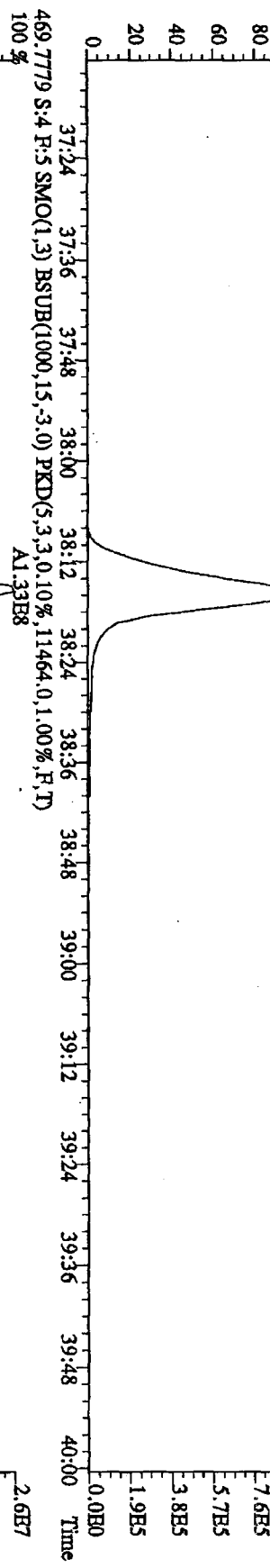
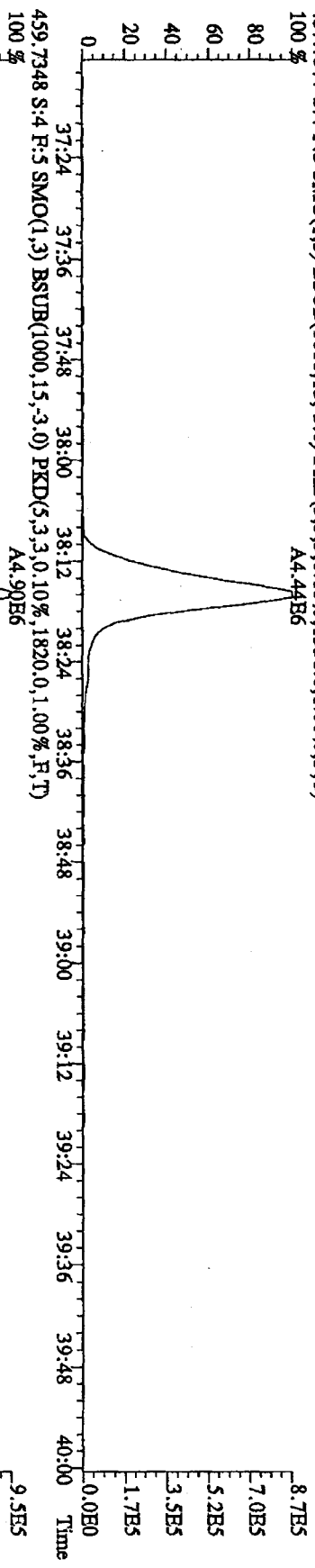
File:21IL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SFR Autospec-UltimaB
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1728,0.1,00%,F,T)
 100%



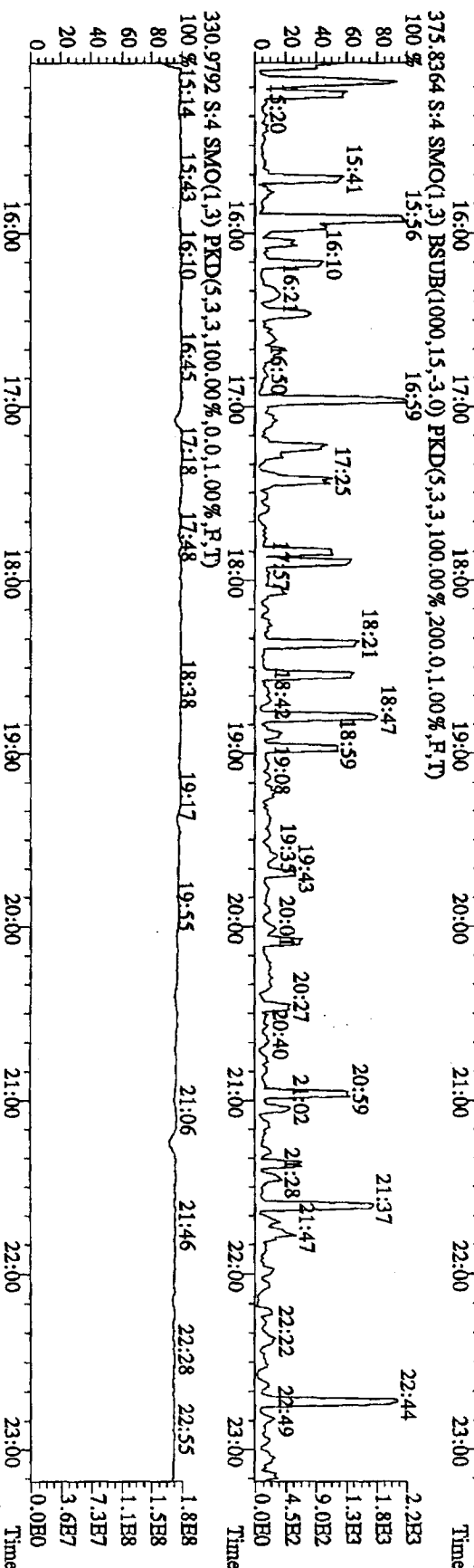
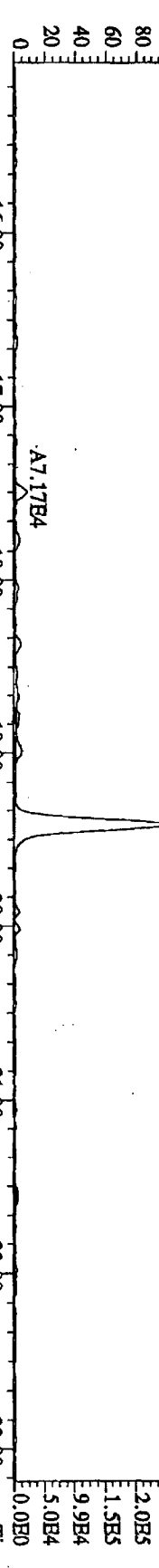
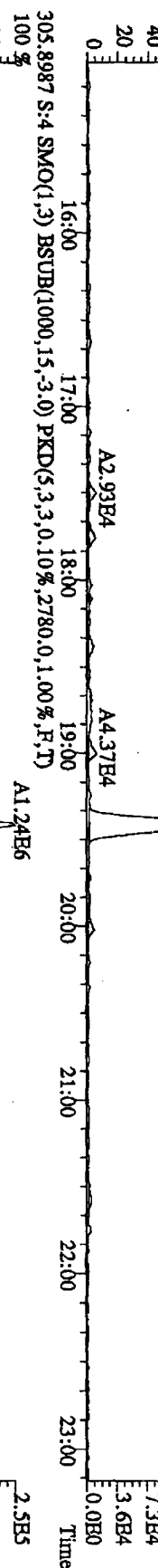
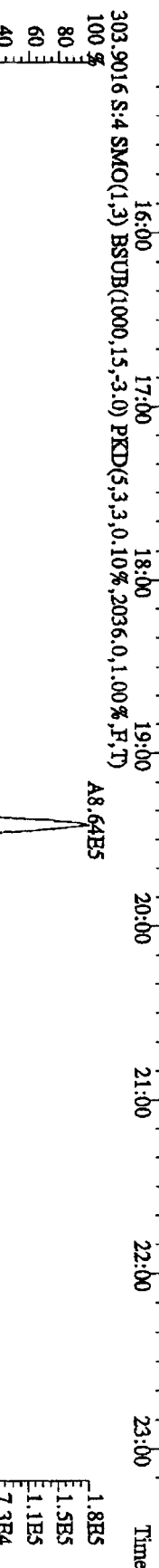
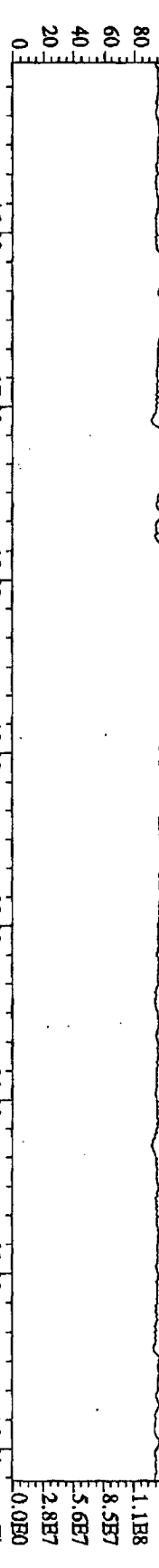
File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2692,0,1,00%,F,T) A4.64E6



File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC HI + Voltage SIR Autospec-DitmaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1336.0,1.00%,F,T)
 100%



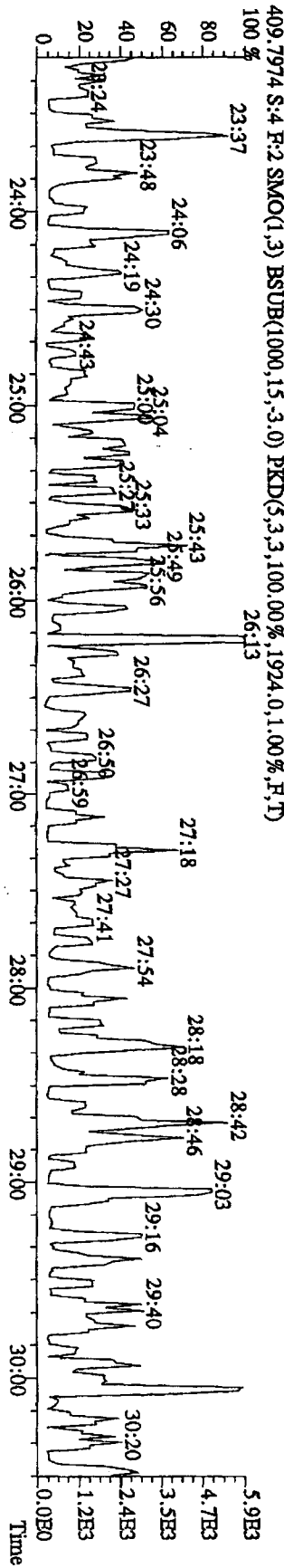
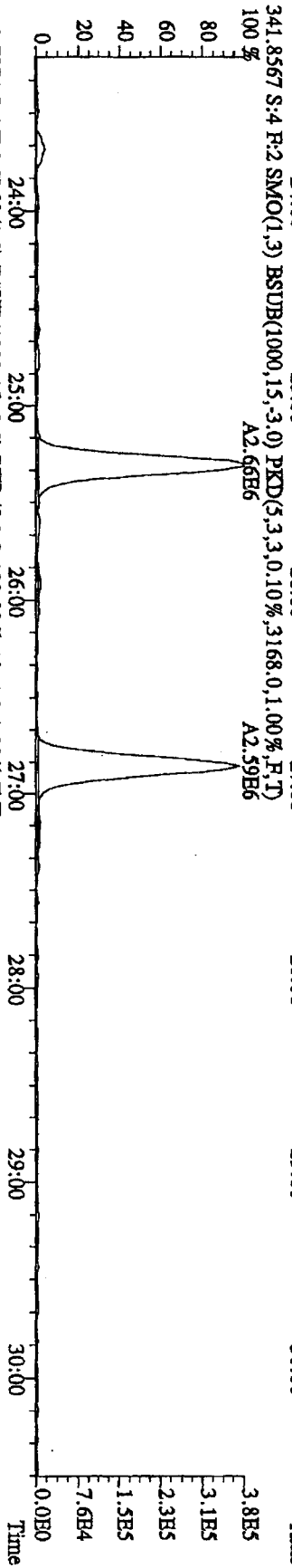
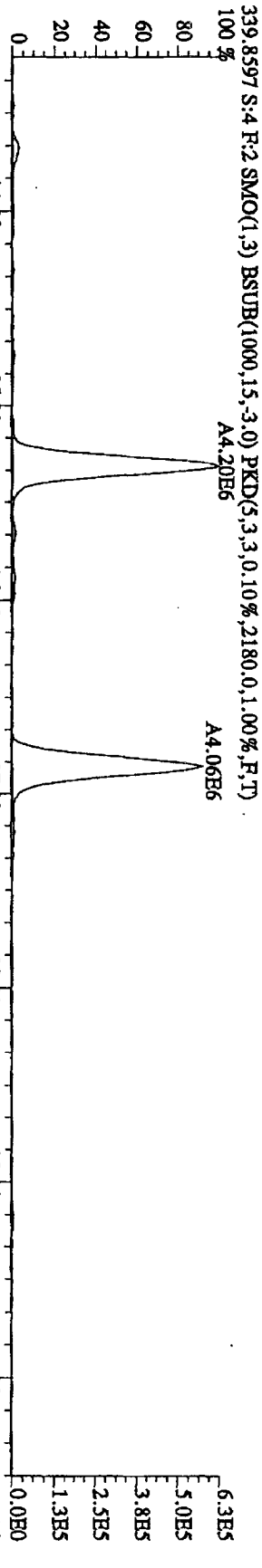
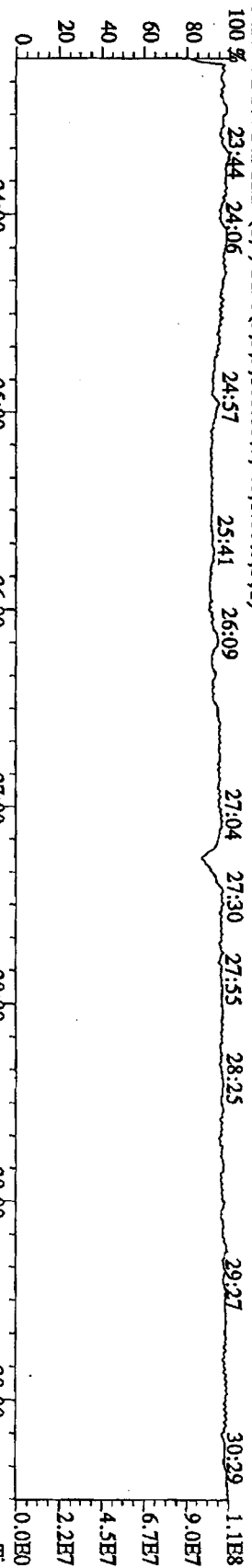
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 16:48:00 GC HI + Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES
 292.9825 S:4 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)
 100% 15:26 16:24 17:29 18:46 19:15 19:49 20:44 21:10 22:00 22:29 22:57



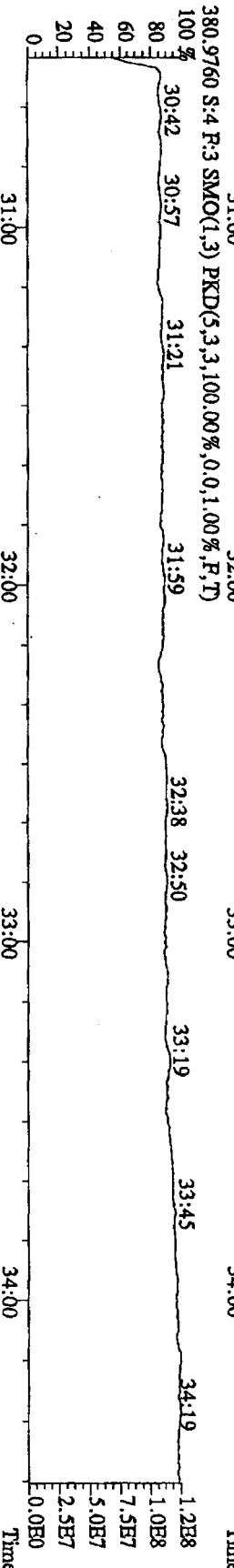
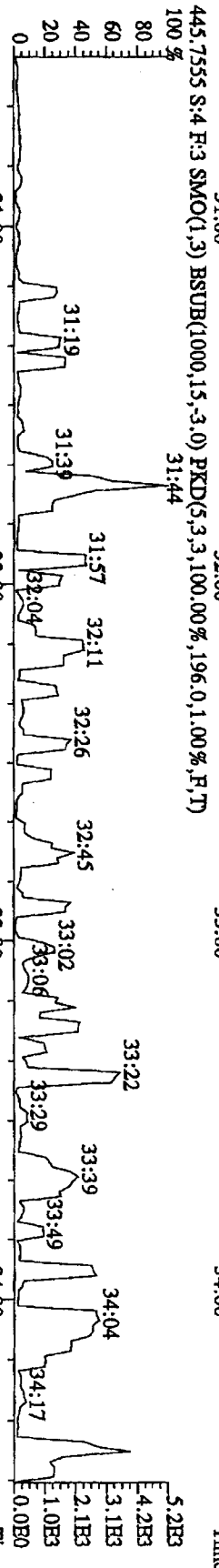
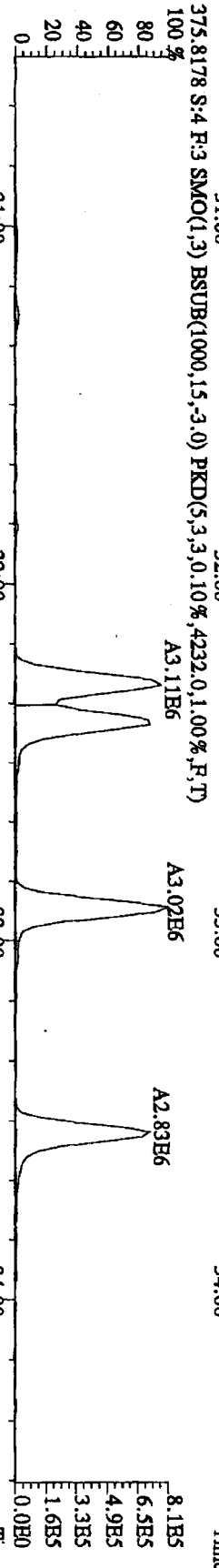
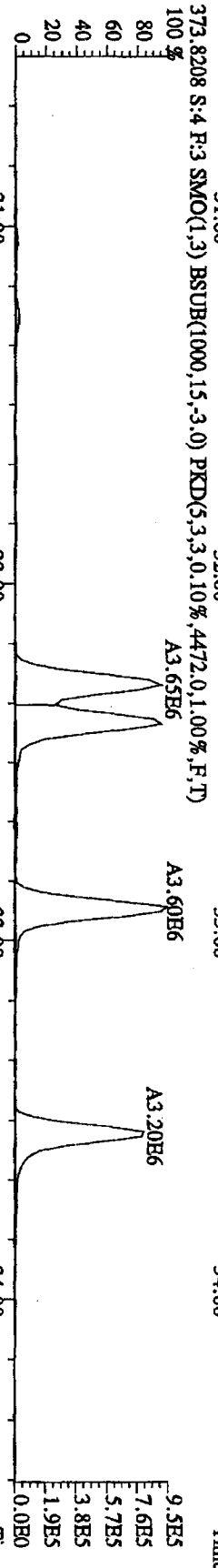
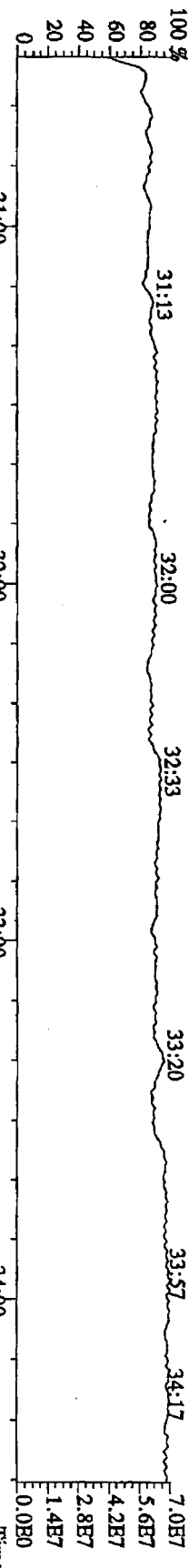
File: 21IL10A4D5 #1-469 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES

342.9792 S:4 F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 21JL10A4D5 #1-287 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES

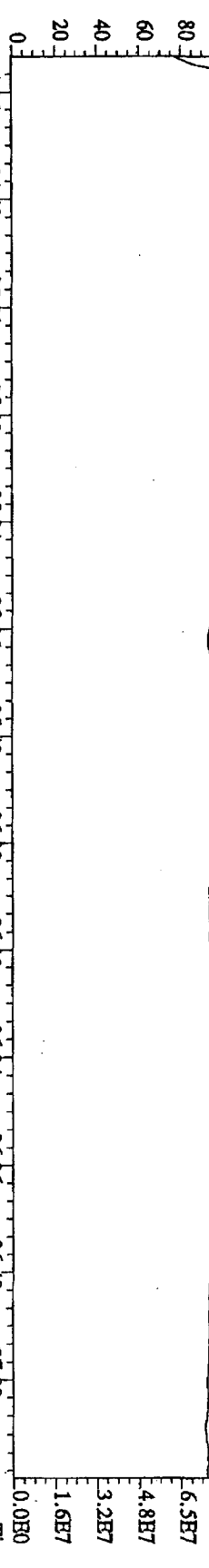


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SHR Autospec-UltimaB

Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

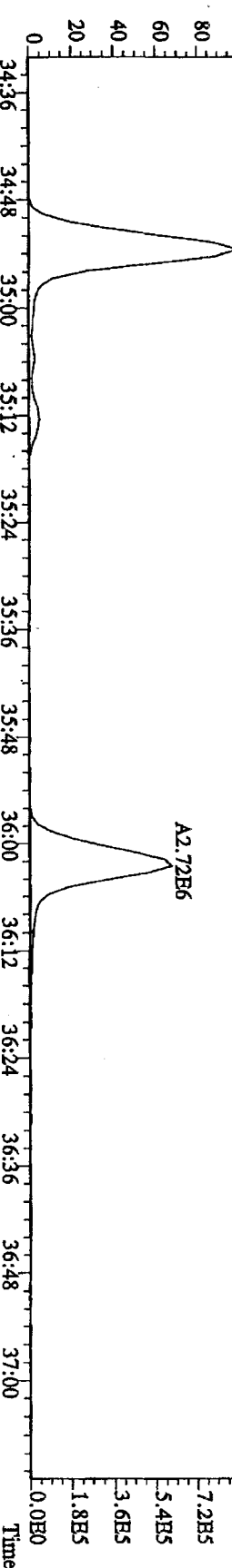
430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 34:36 34:48 35:00



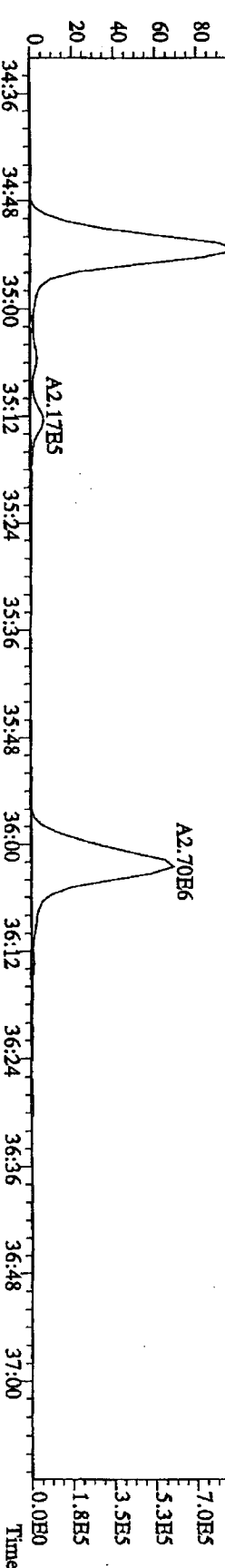
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3388,0.1,1.00%,F,T)

A3.61B6



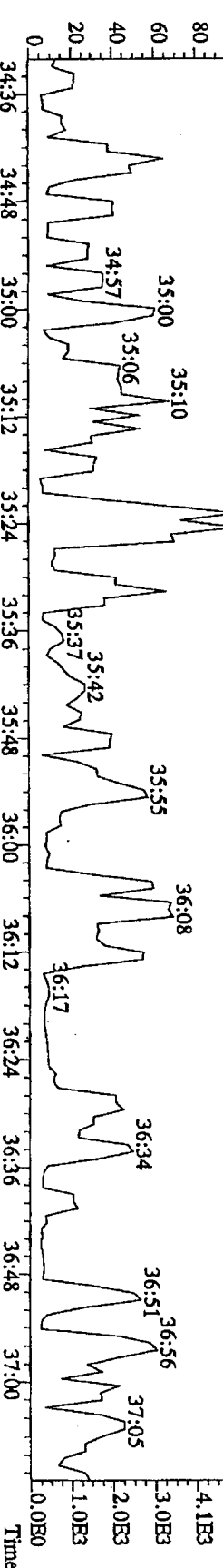
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3004,0.1,1.00%,F,T)

A3.40B6

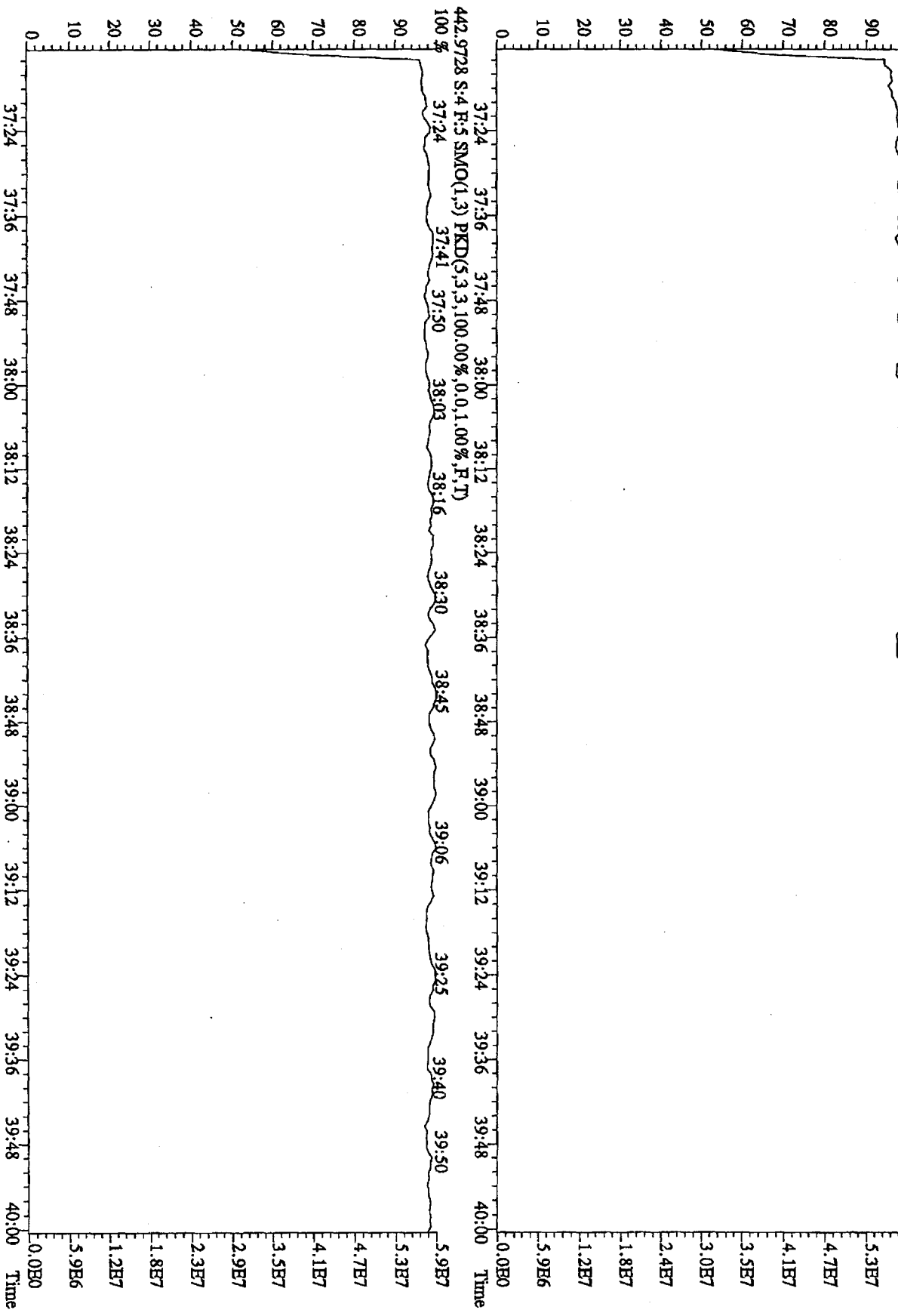


479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2604,0.1,1.00%,F,T)

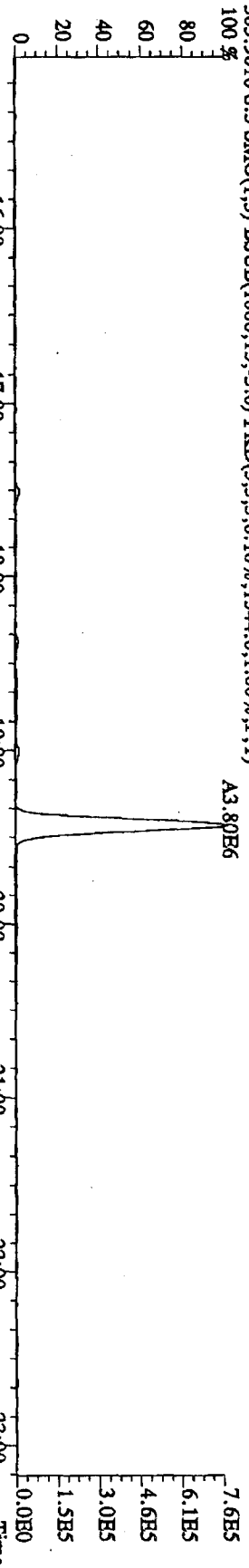
A2.17B5



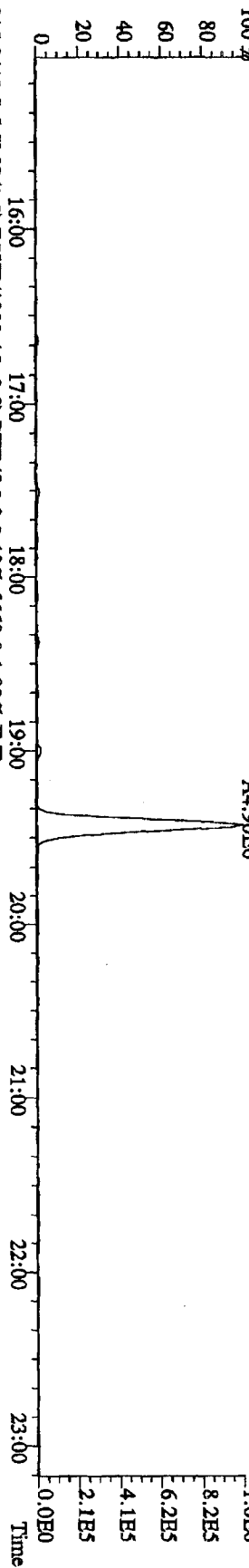
File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC HI + Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES
 454.9728 S:4 R:5 SMO(1,3) PKD(5,3,3,100.00% 0.0,1.00% F,T)
 100 % 37:24 37:34 37:48 38:01 38:11 38:30 38:45 38:54 39:25 39:37 39:55 5.9E7



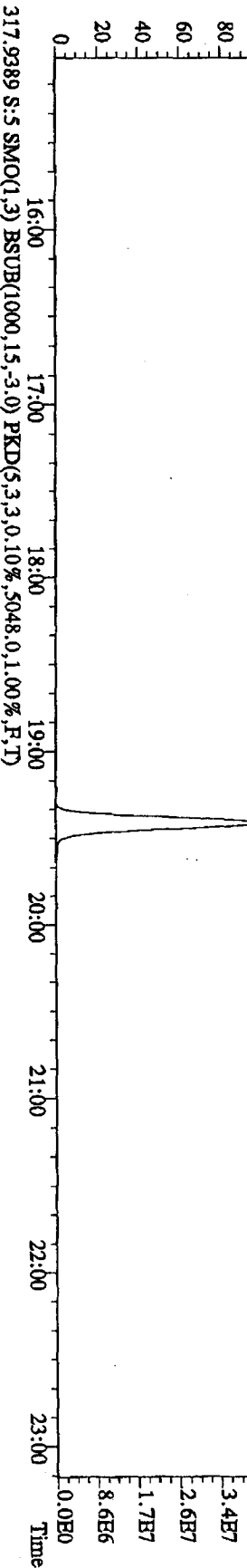
File:21J110A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltimaB
Sample#5 Text:STU721B :CS-2 10DXN334 Exp:DIOXINRES
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1544.0,1.00%,F,T)
100%



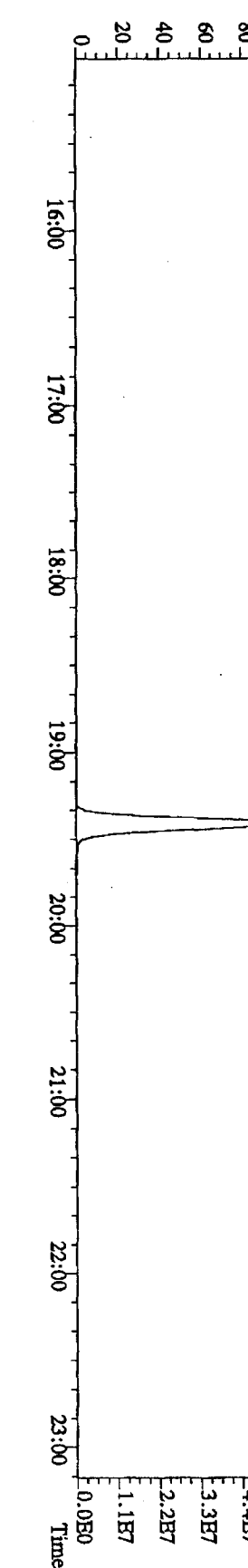
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2944.0,1.00%,F,T)
100%



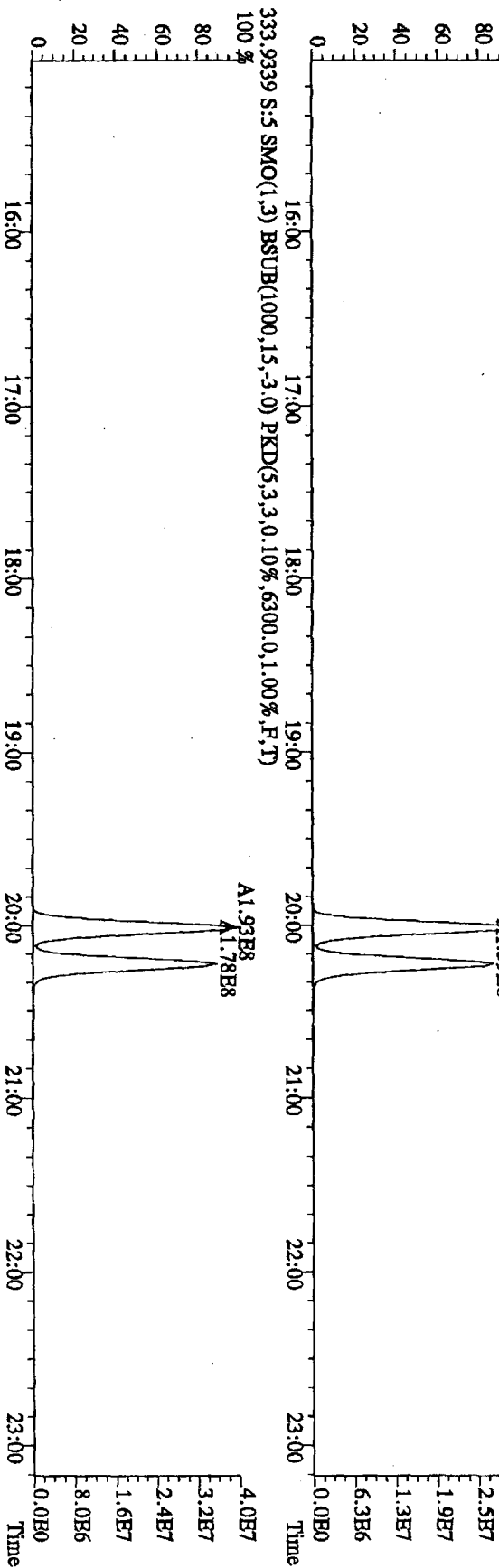
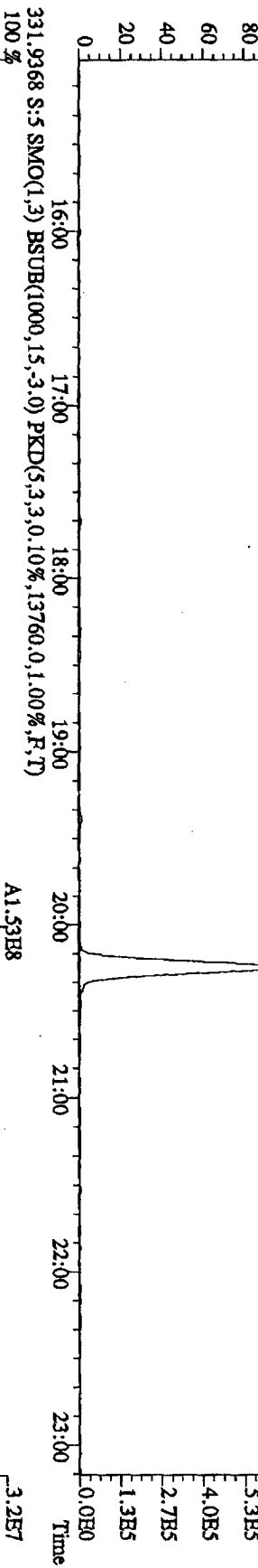
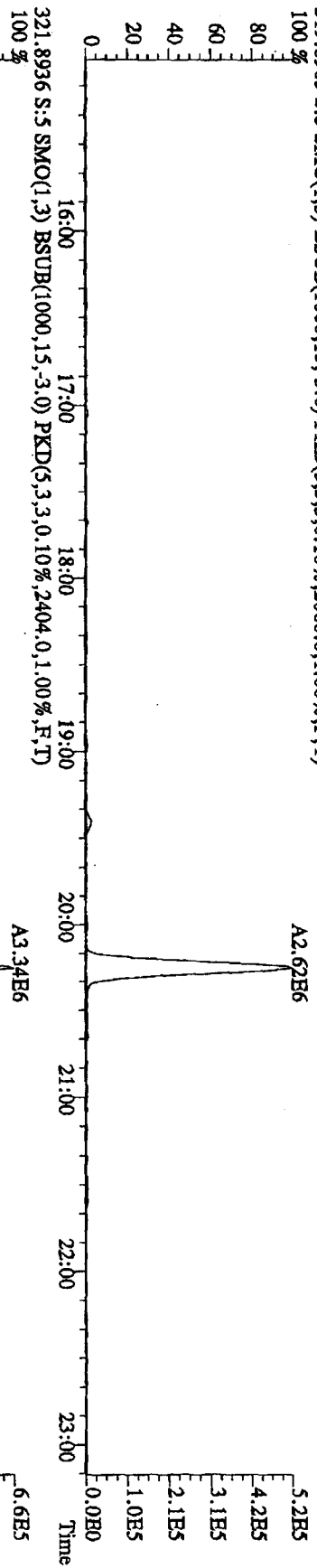
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5660.0,1.00%,F,T)
100%



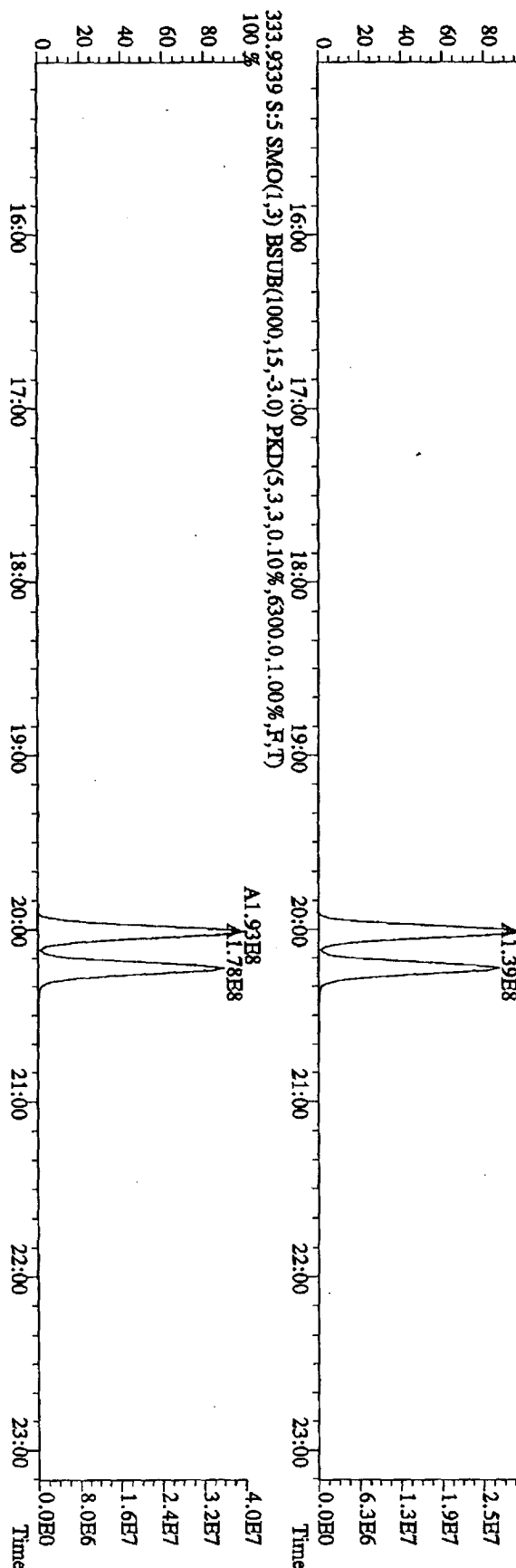
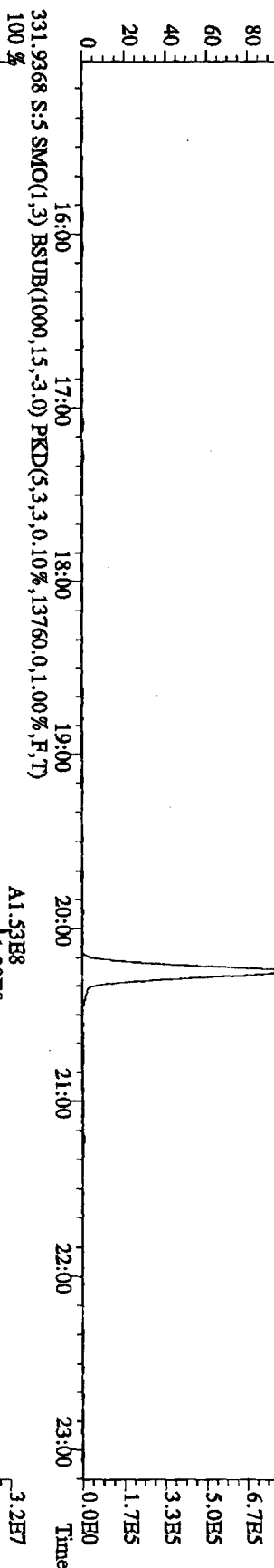
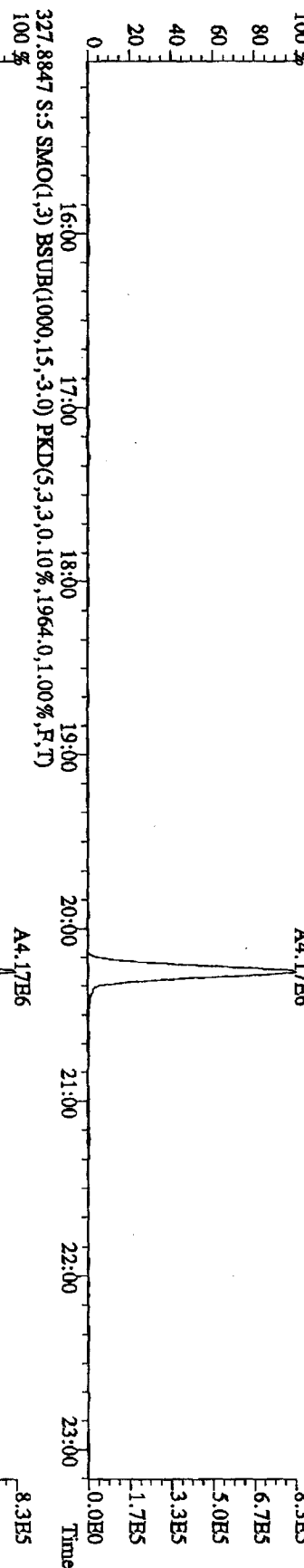
317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5048.0,1.00%,F,T)
100%



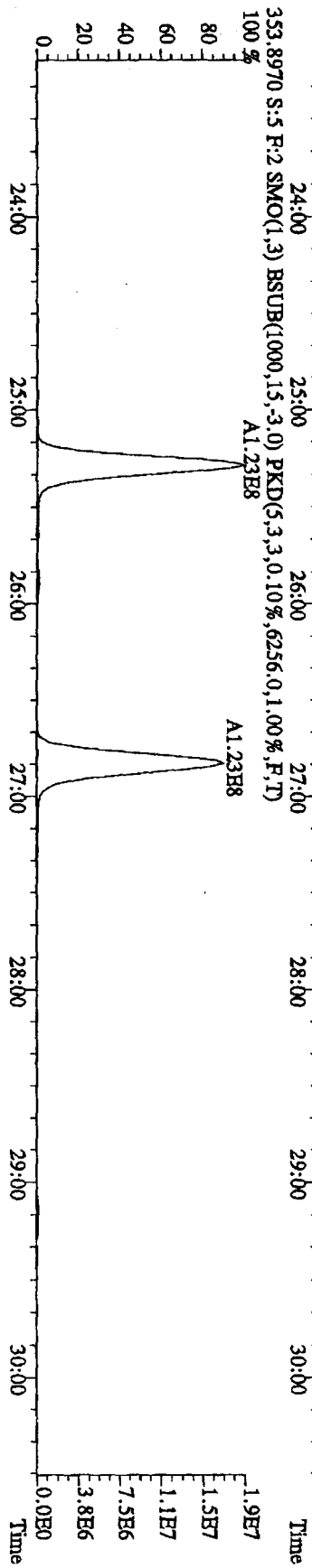
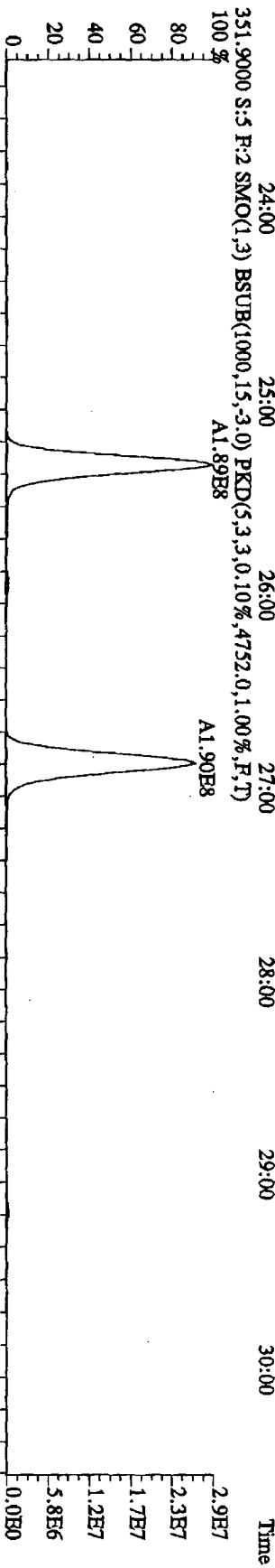
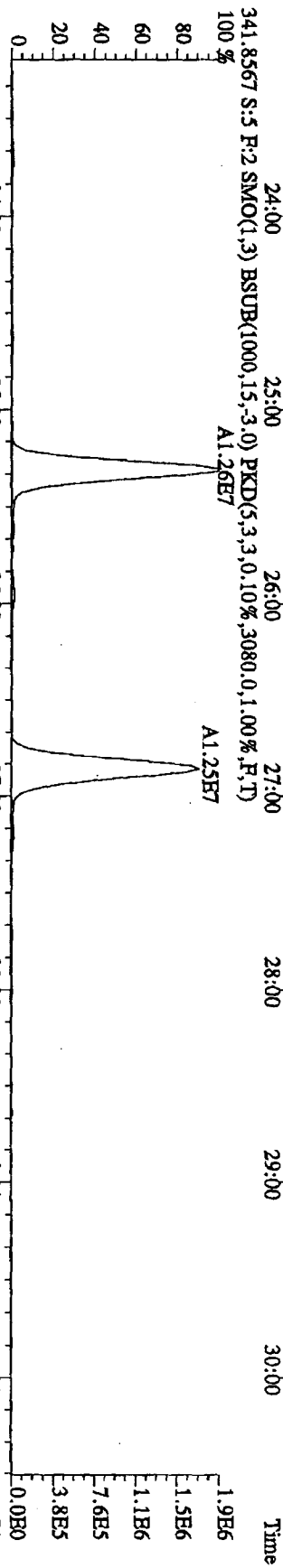
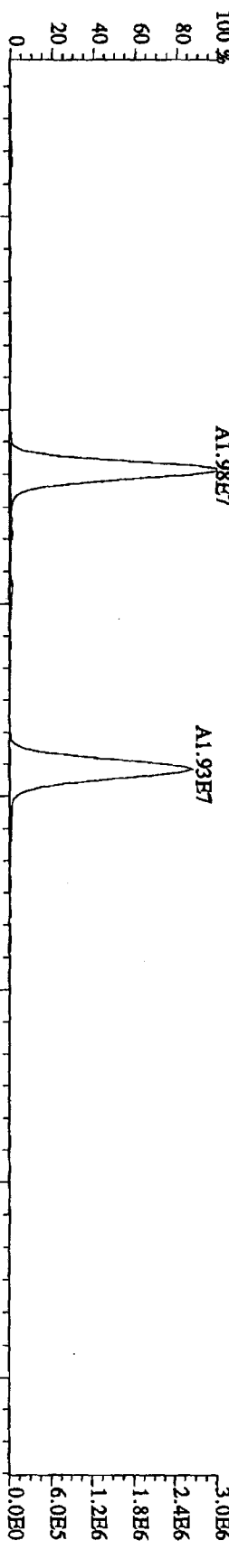
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2060.0,1.00%,F,T)



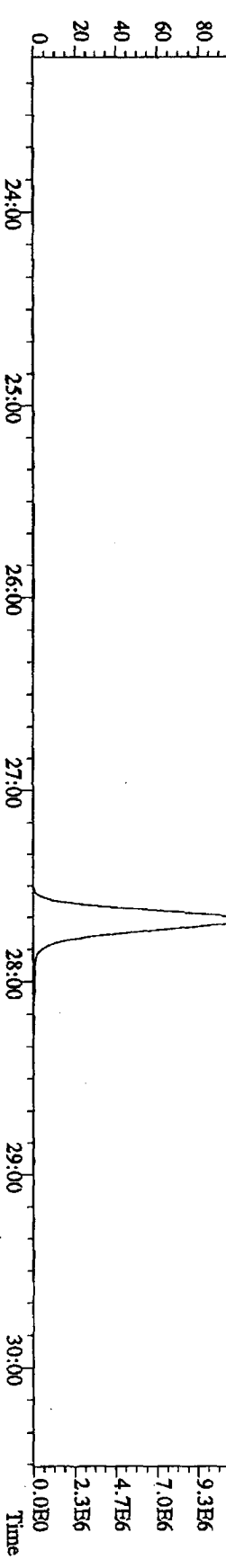
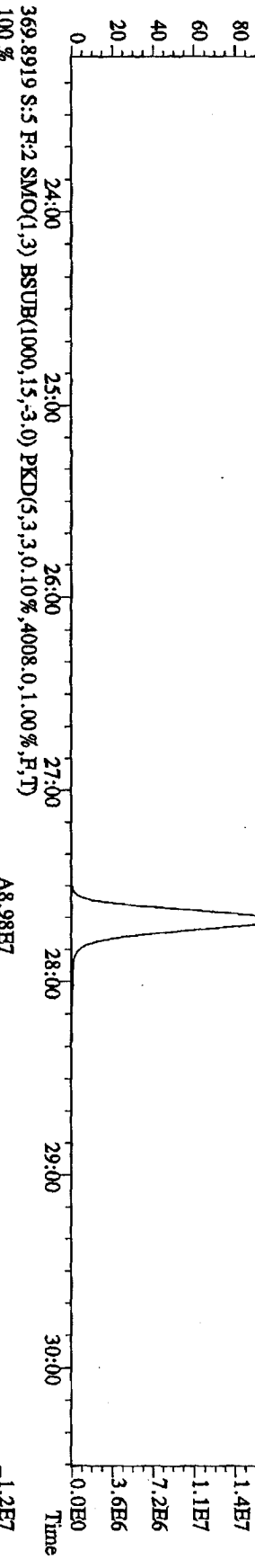
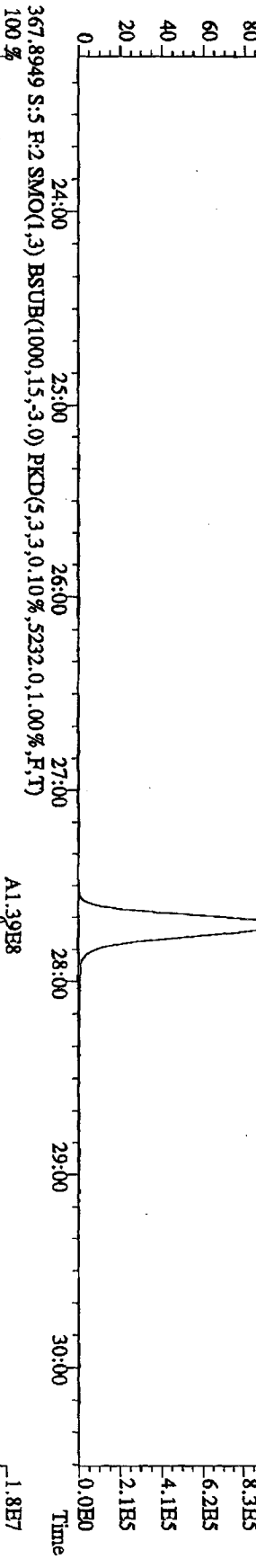
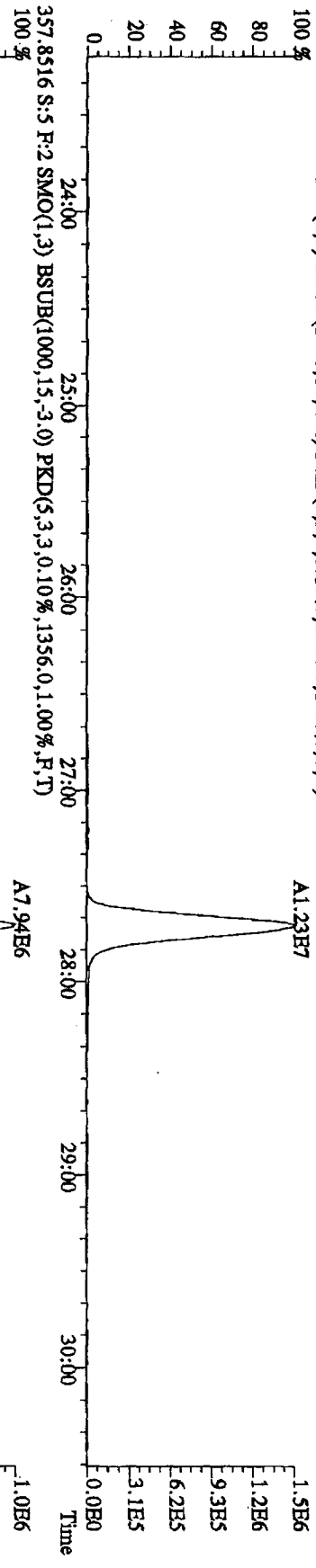
File:21IL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC HF+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1964,0.1,0.0%,F,T)



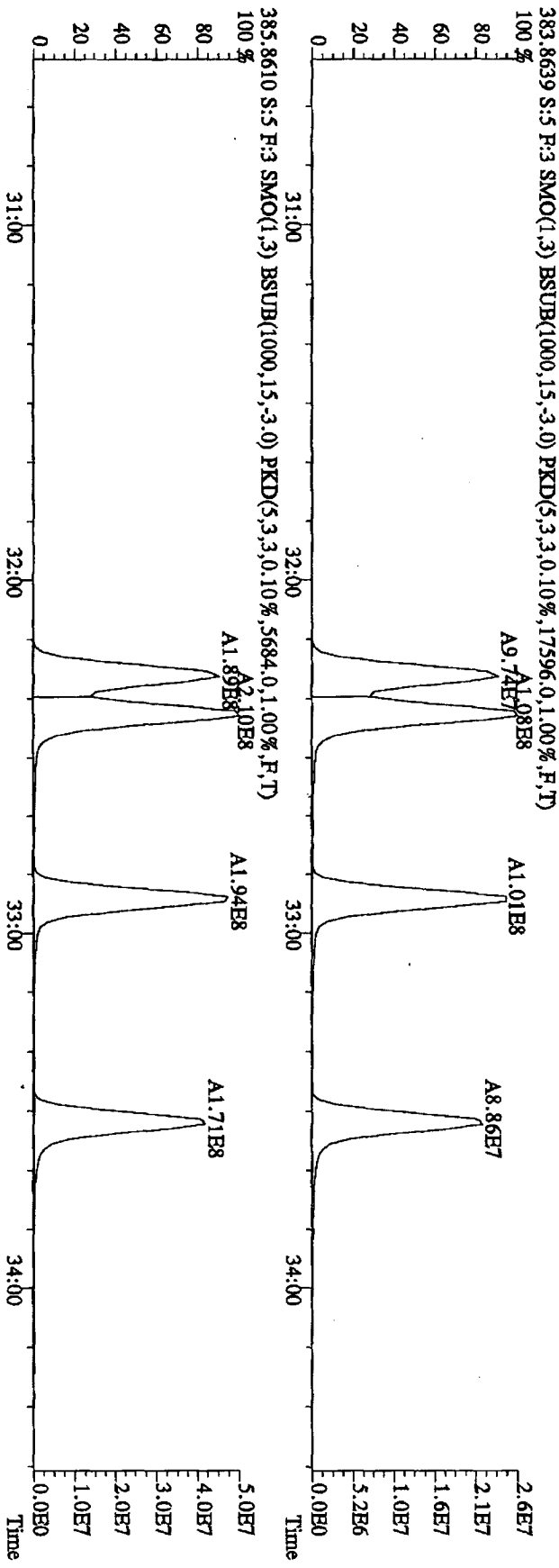
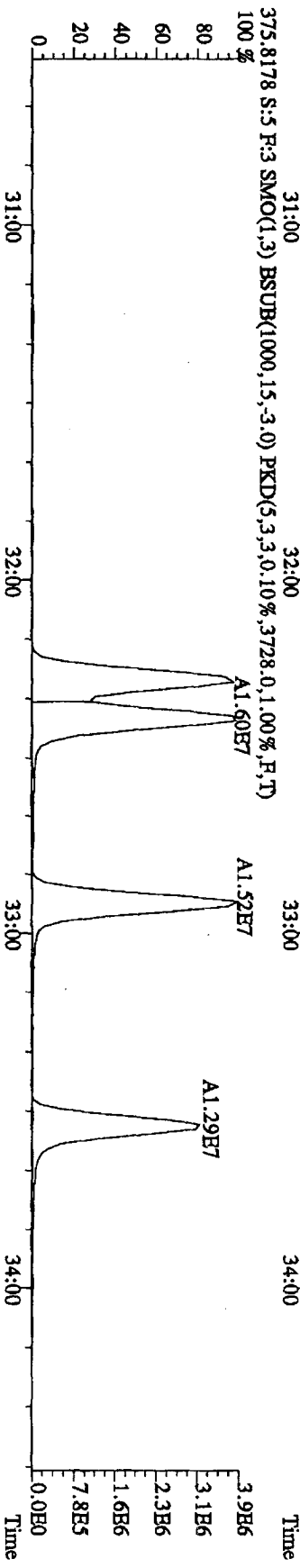
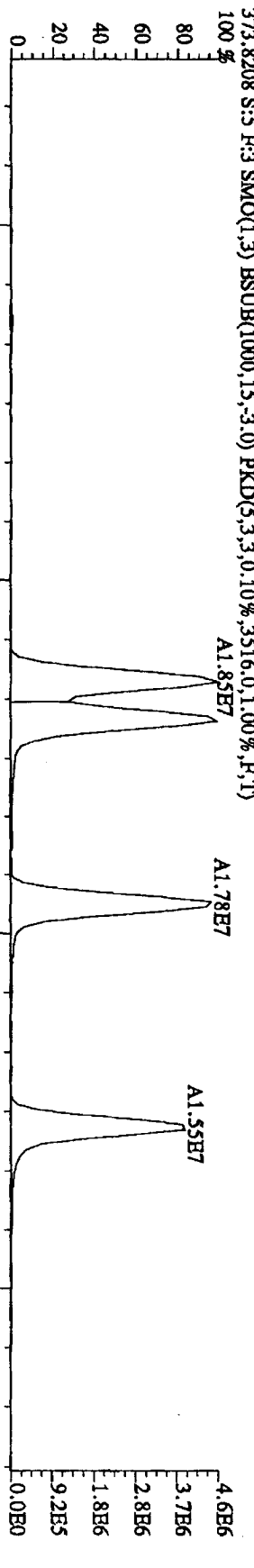
File:211E10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC RI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3196.0,1.00%,F,T)
 100%



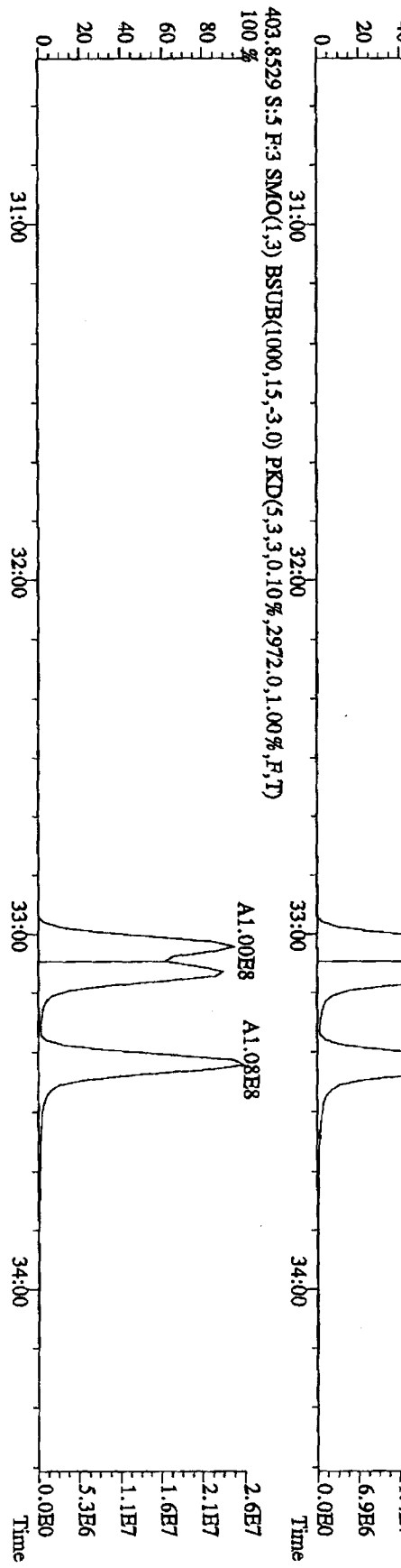
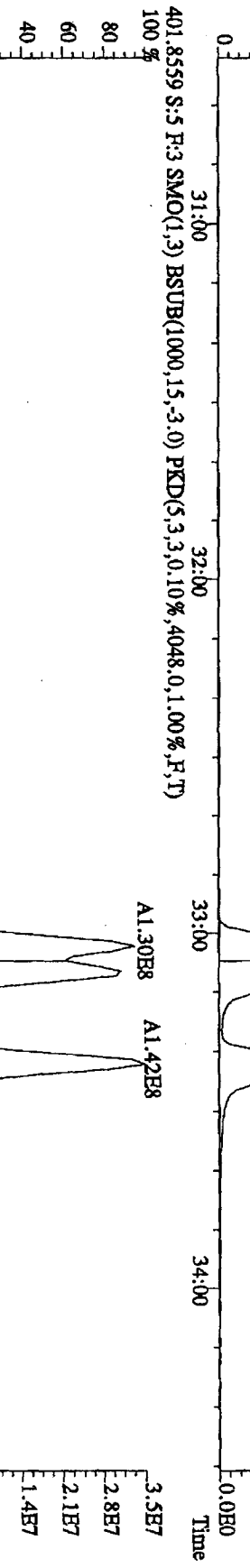
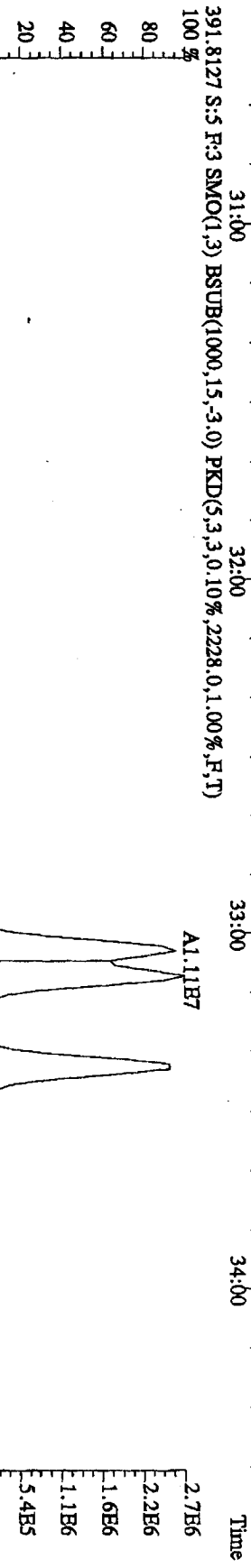
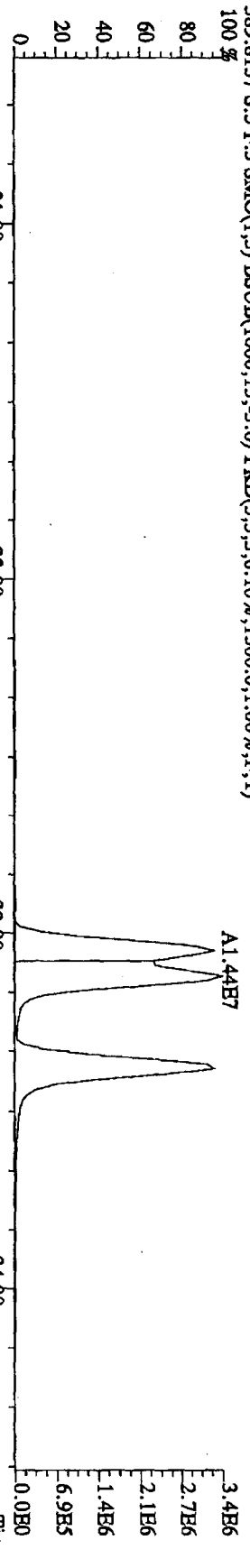
File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2284,0,1,00%,F,T)



File: 21JL10A4D5 #1-287 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text: ST0721B :CS-2-10DXN334 Exp: DIOXINRBS



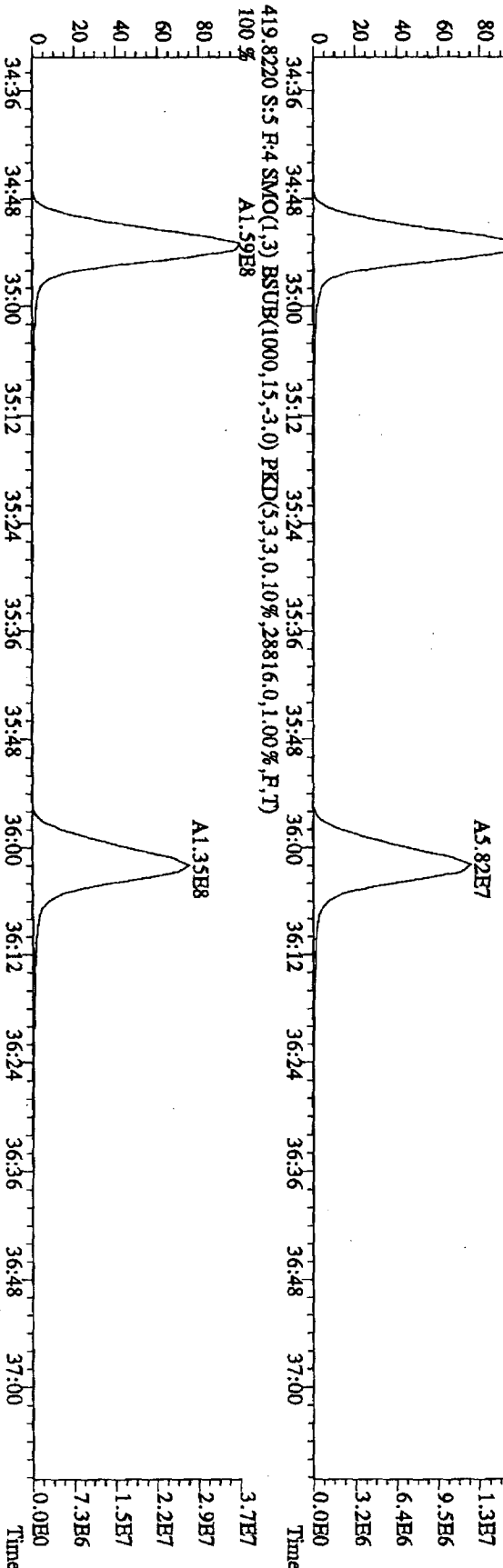
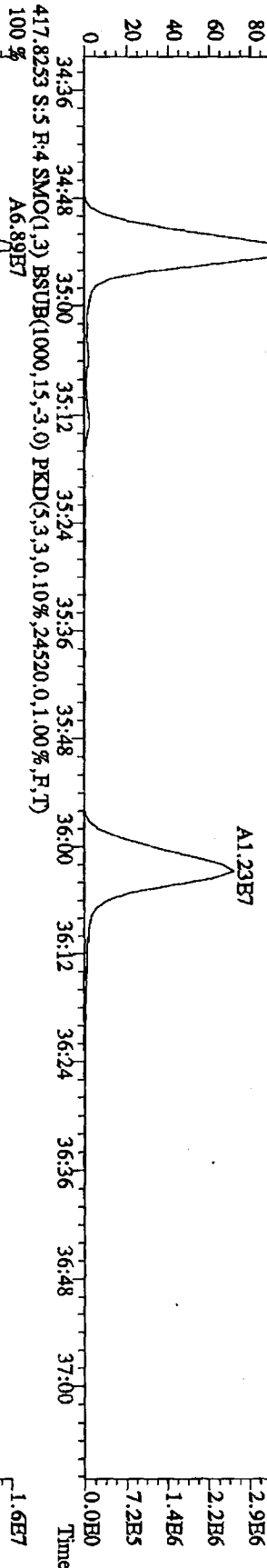
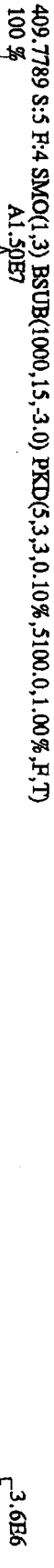
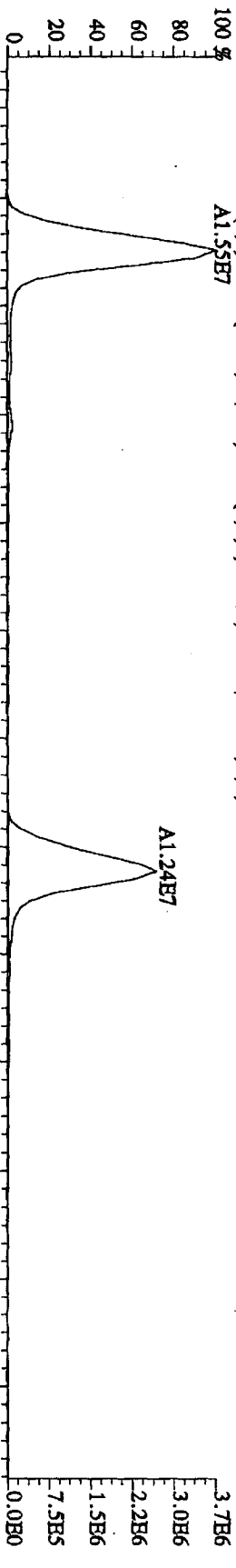
File:211L10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



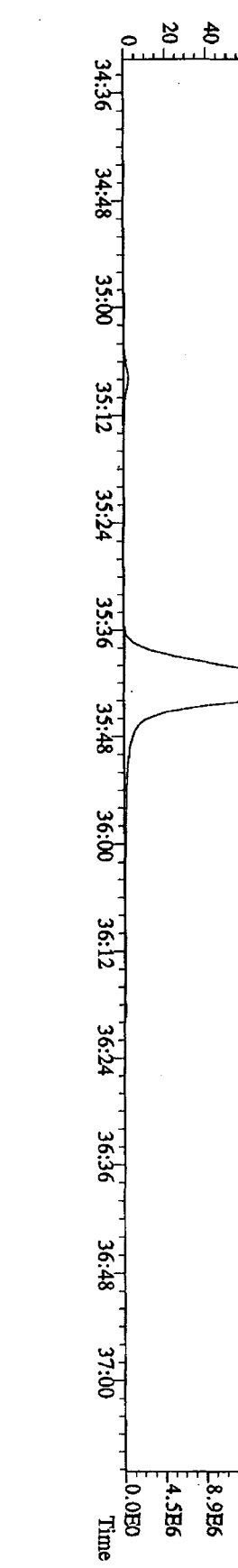
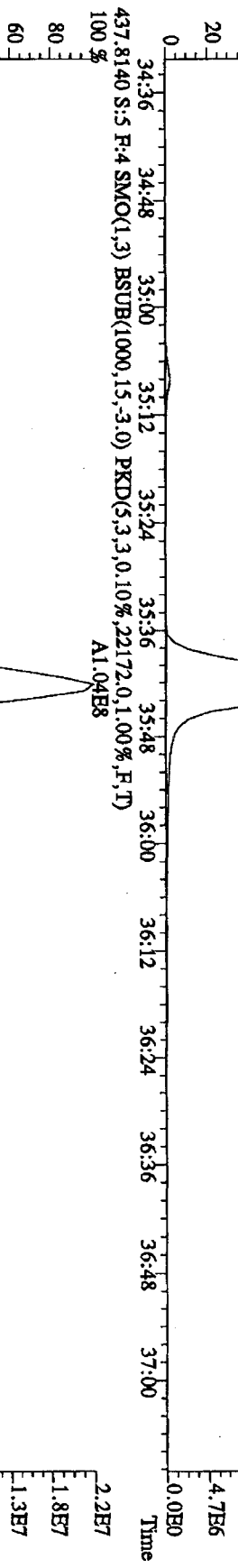
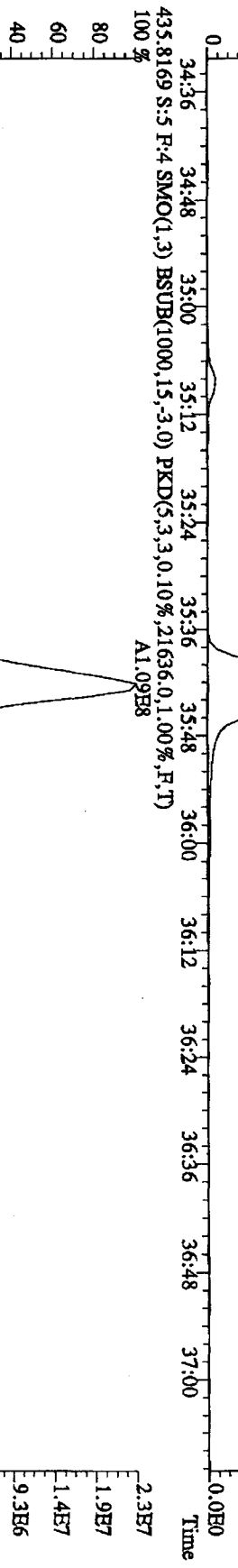
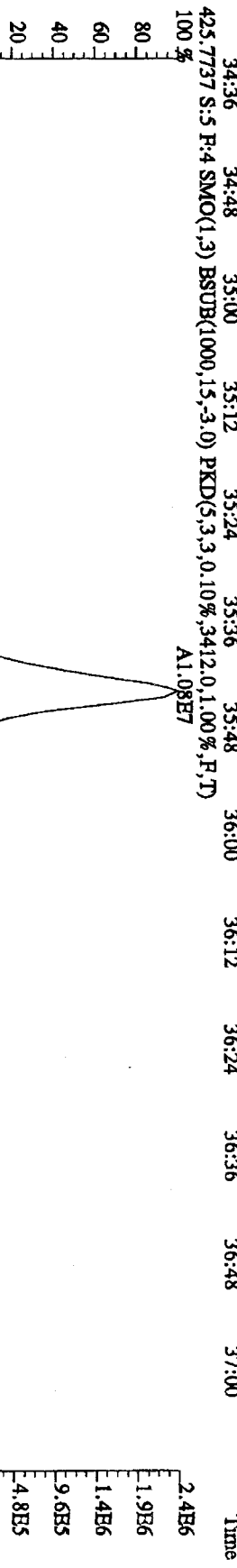
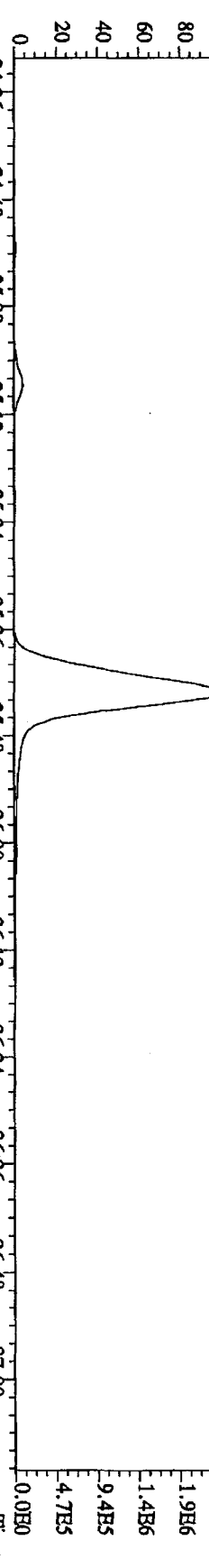
File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltimaB

Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

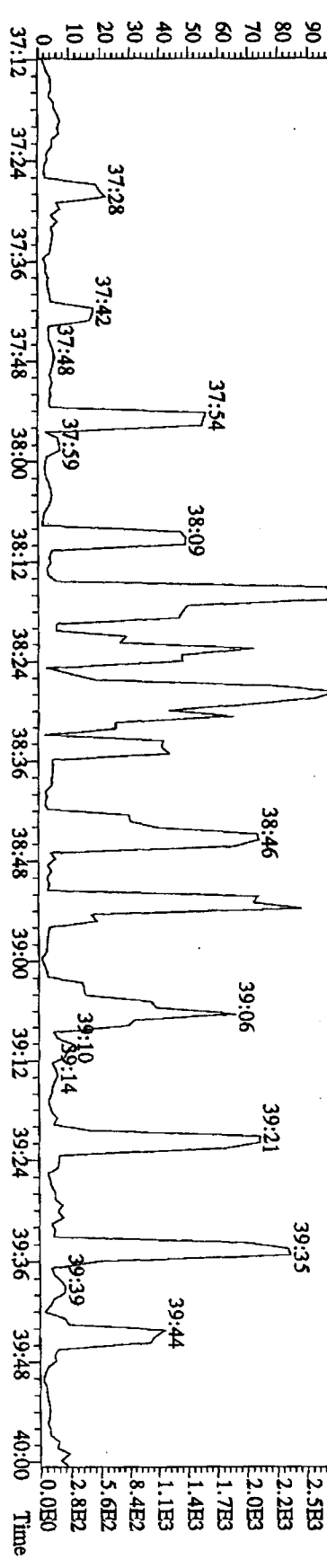
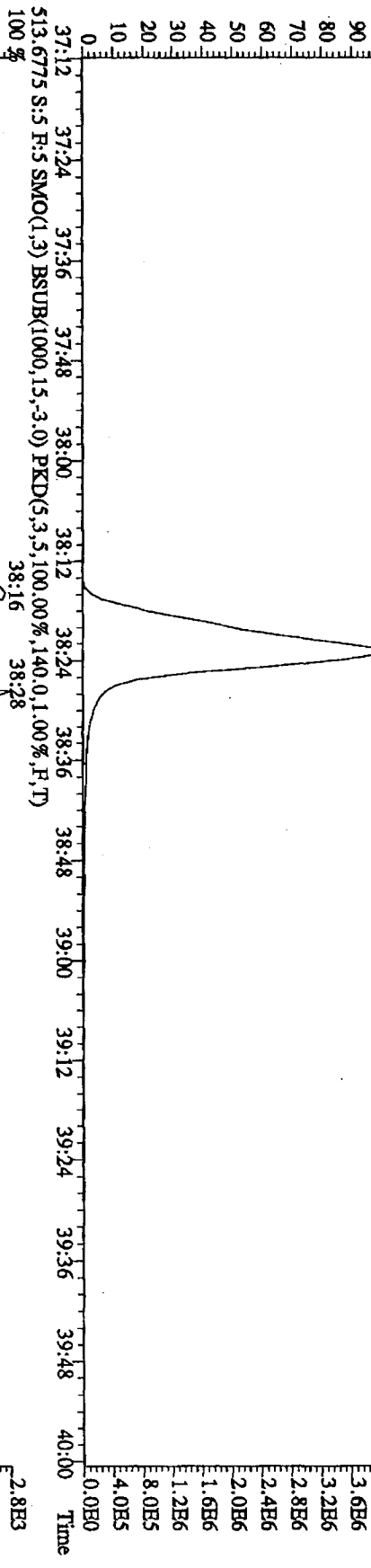
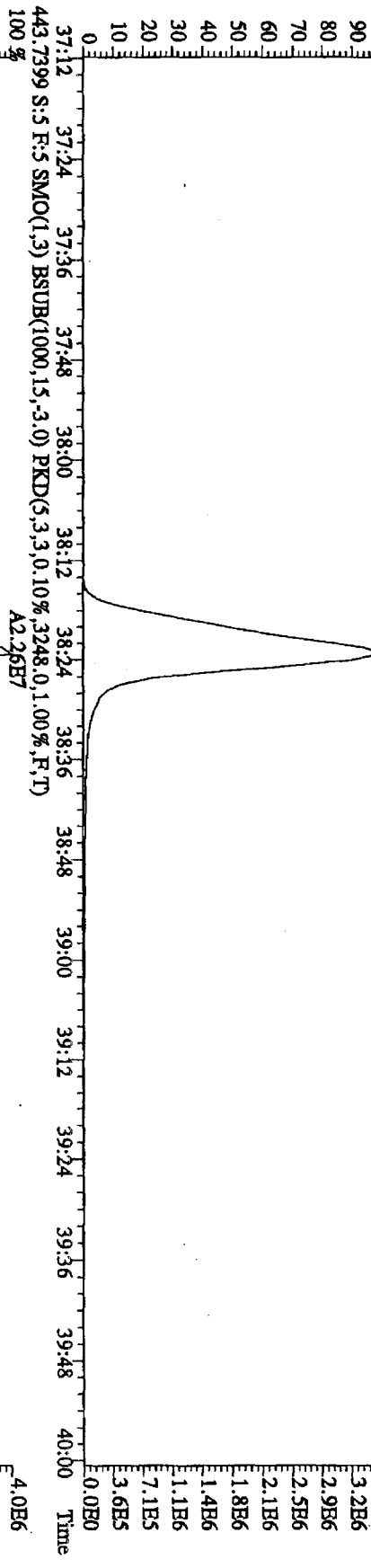
407.7818 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8040,0,1.00%,F,T)



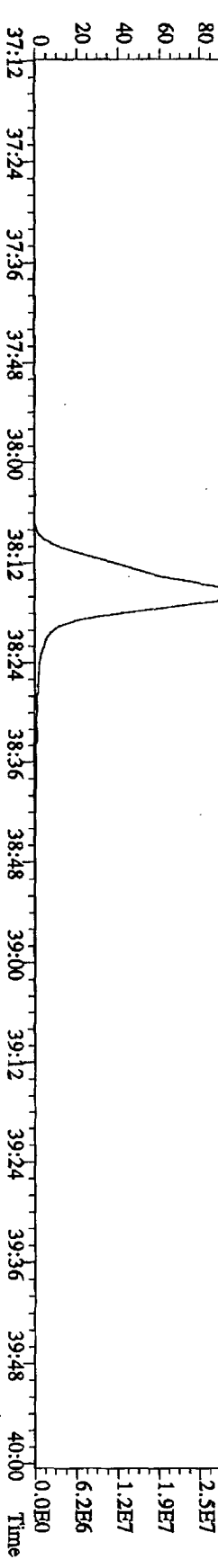
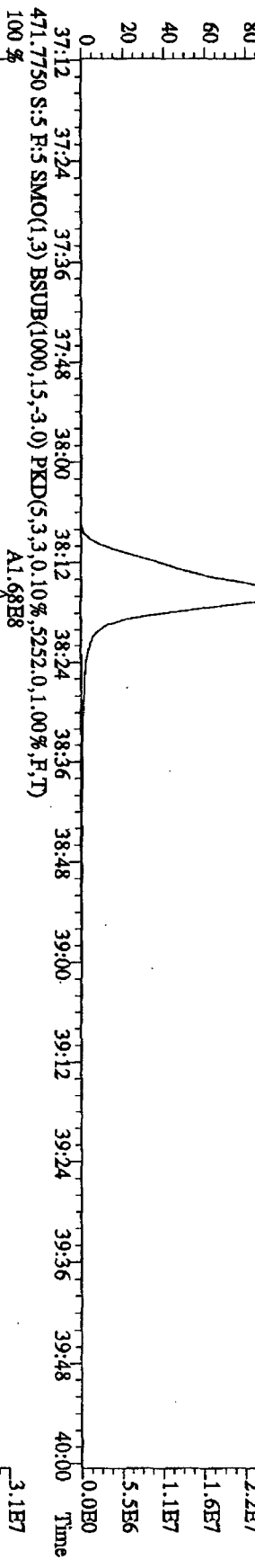
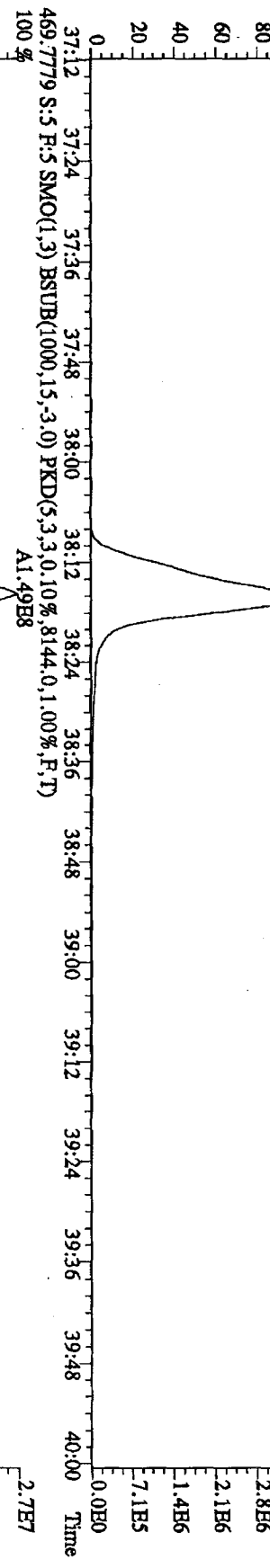
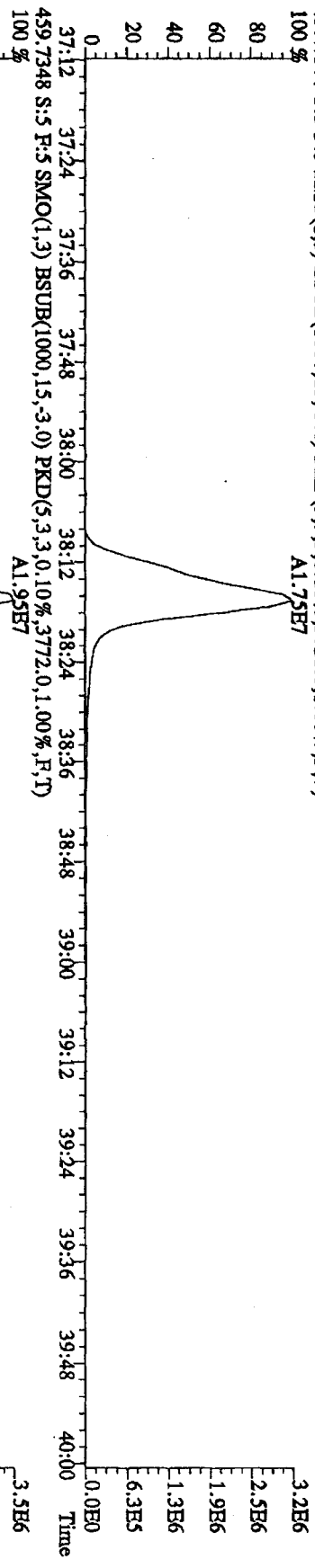
File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 17:33:53 GC BI + Voltage SIR Autospec-UltimaB
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3164.0,1.00%,F,T)
 100% A1.10E7



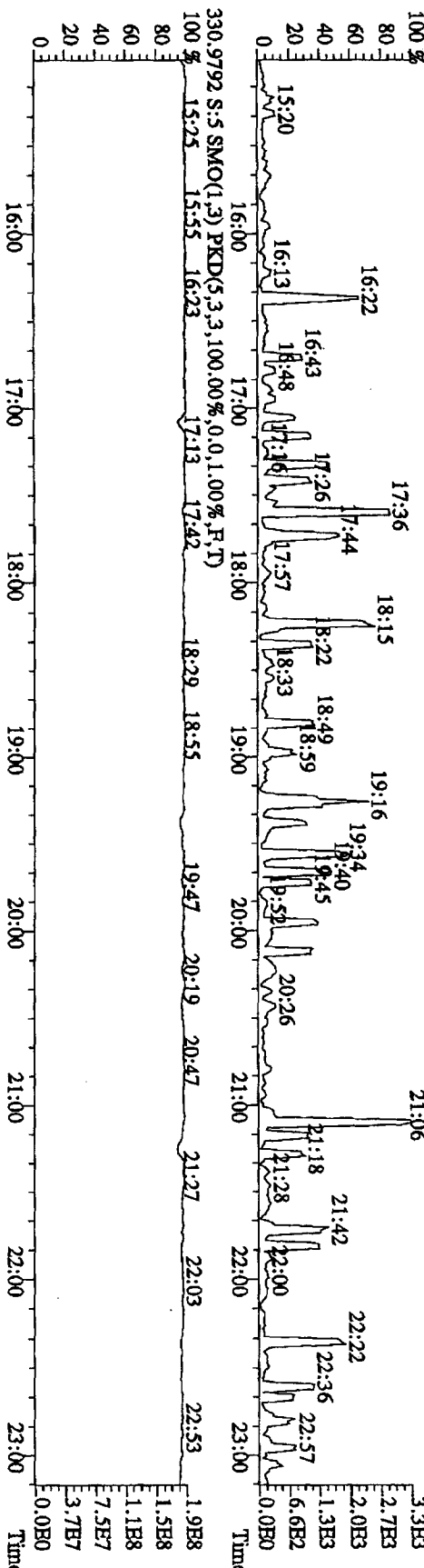
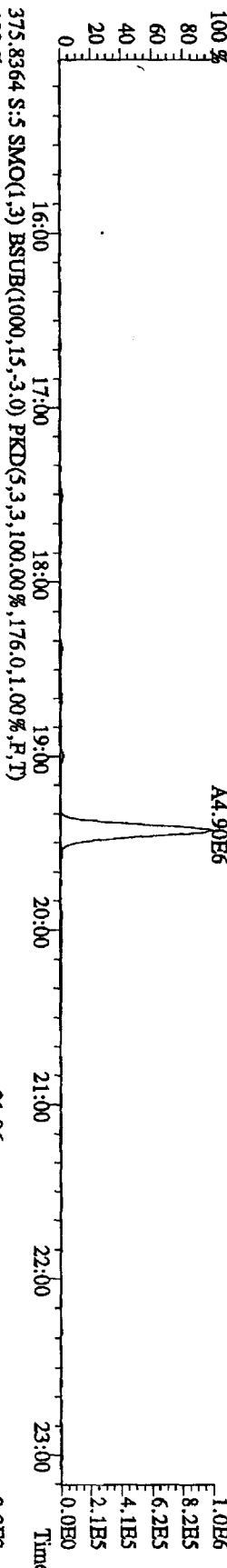
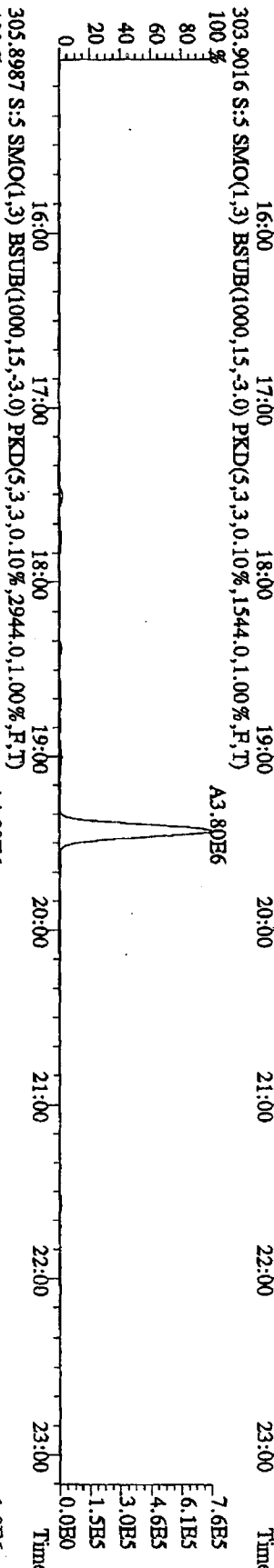
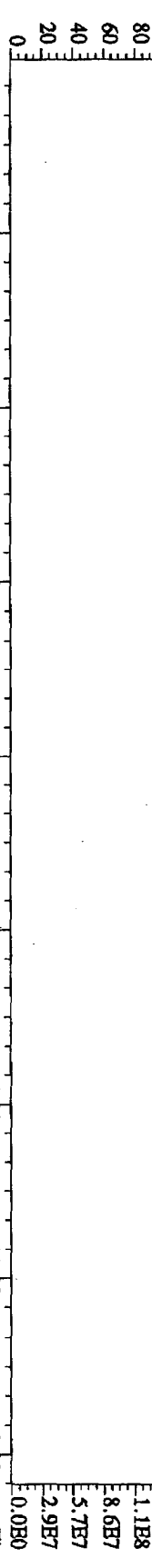
File: 211L10A4D5 #1-228 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2904,0.1,00%,F,T) A2.00E7



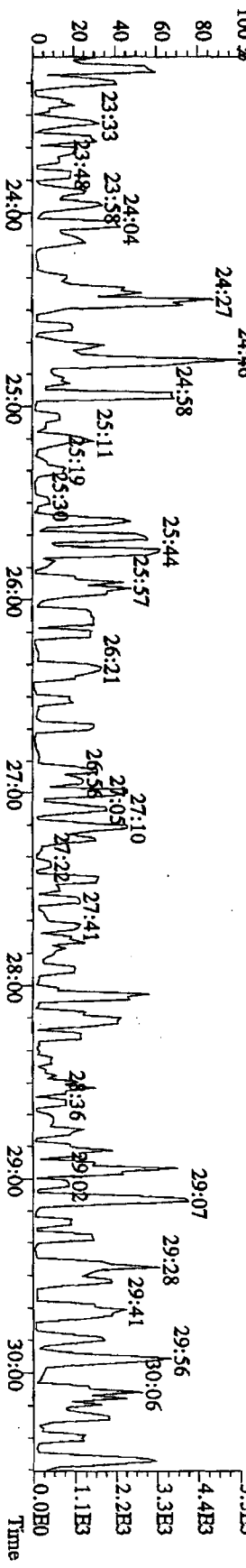
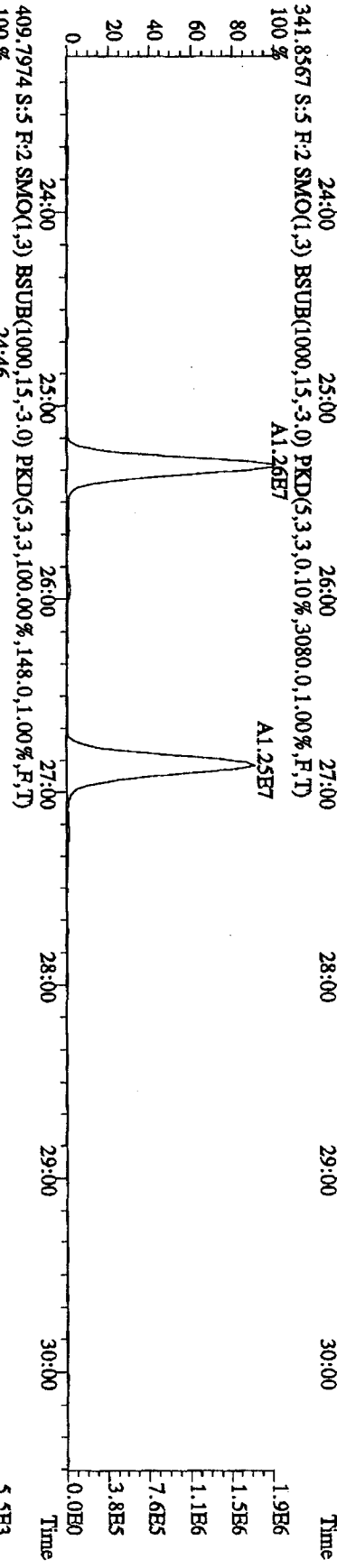
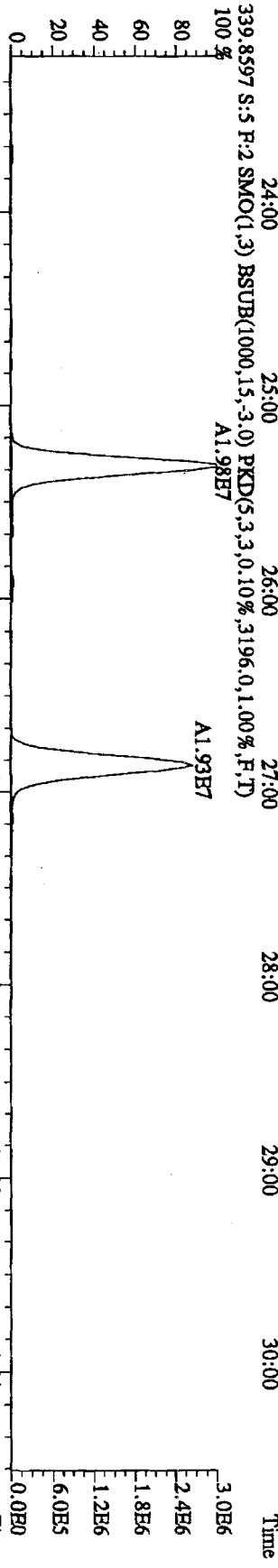
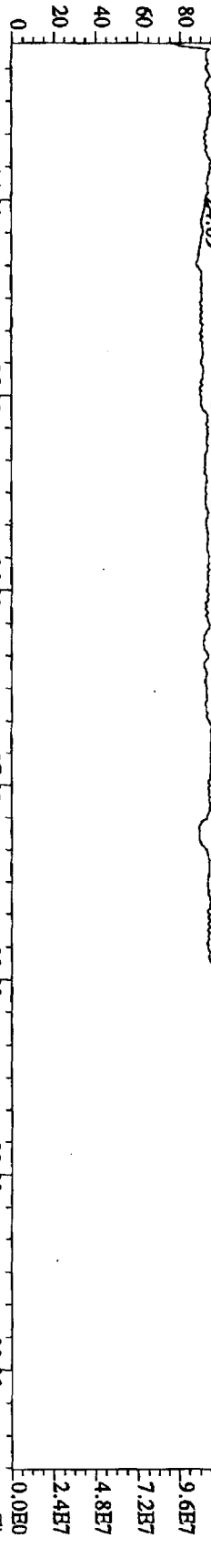
File:21JUL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3728.0,1.00%,F,T)
 100% A1.75E7



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltraM
 Sample#5 Text: ST0721B : CS-2 10DXN334 Exp: DIOXINRES
 292.9825 S:5 SMO(1.3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
 100 % 15:14 16:16 17:01 17:28 18:46 20:04 20:43 21:12 21:58 22:41

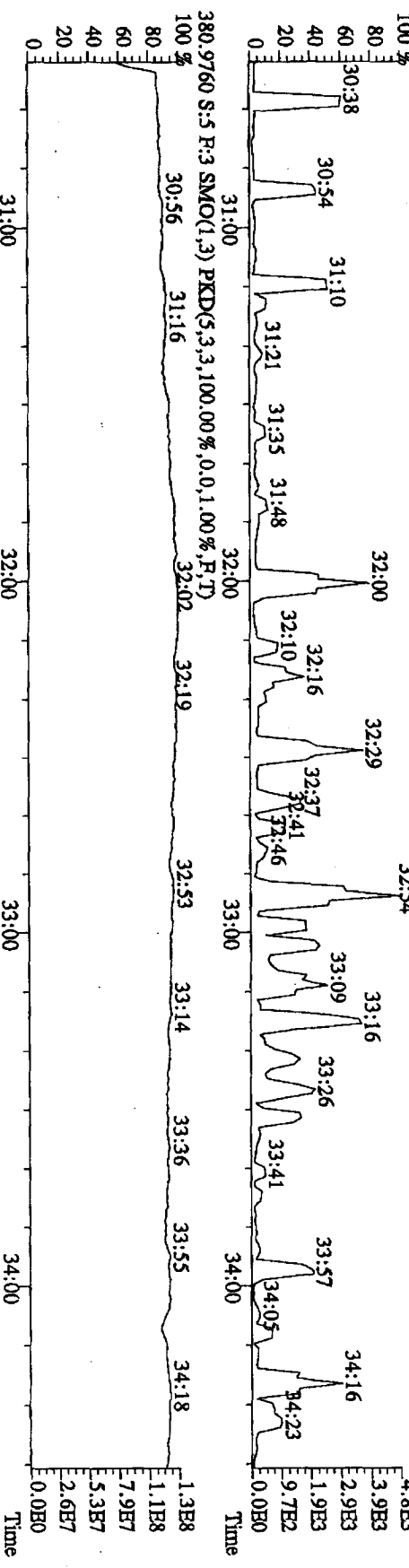
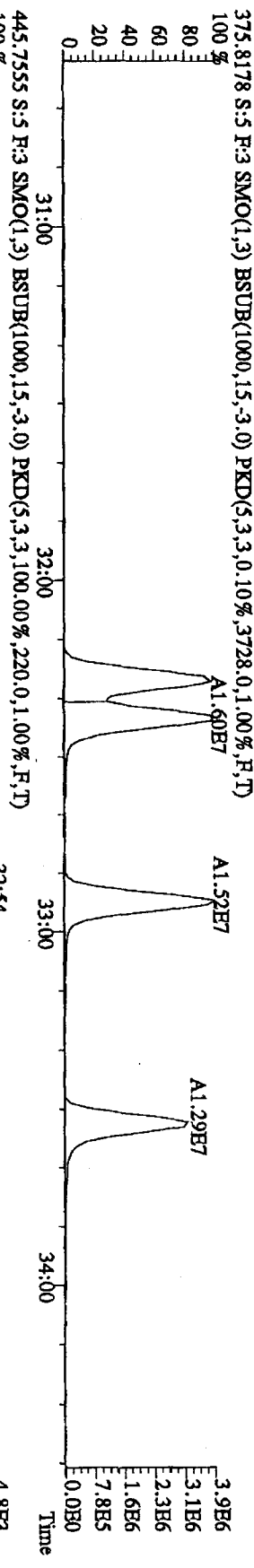
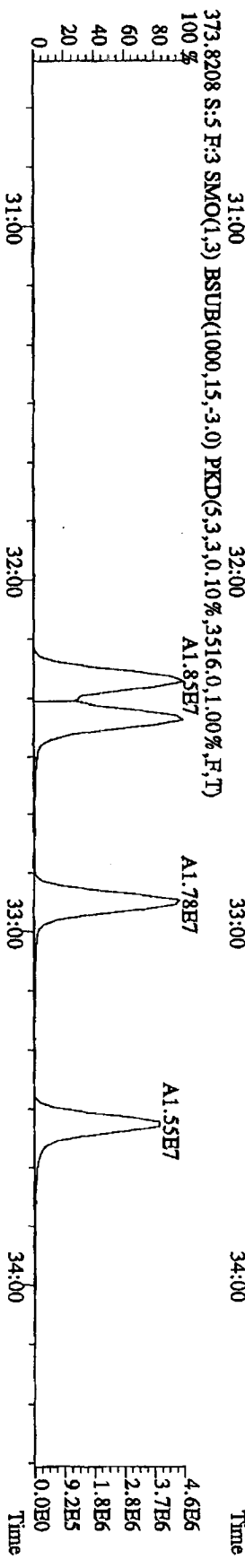
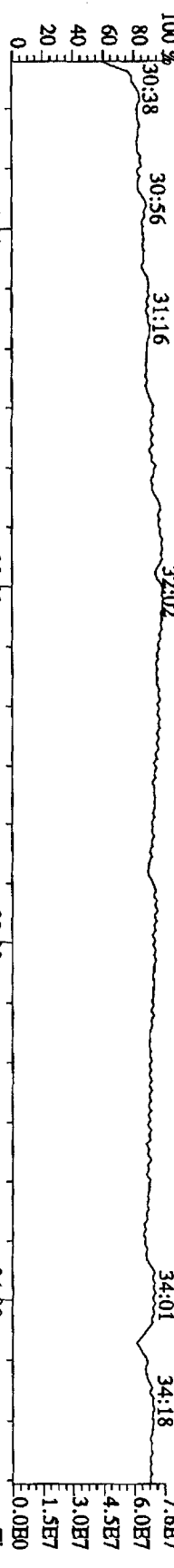


File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:IDIOXINRHS
 342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 23:28 24:09 25:12 25:43 26:11 26:44 27:27 28:13 29:45 30:24



File:21IU10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC:HF + Voltage SIR Autospec-UltimaB

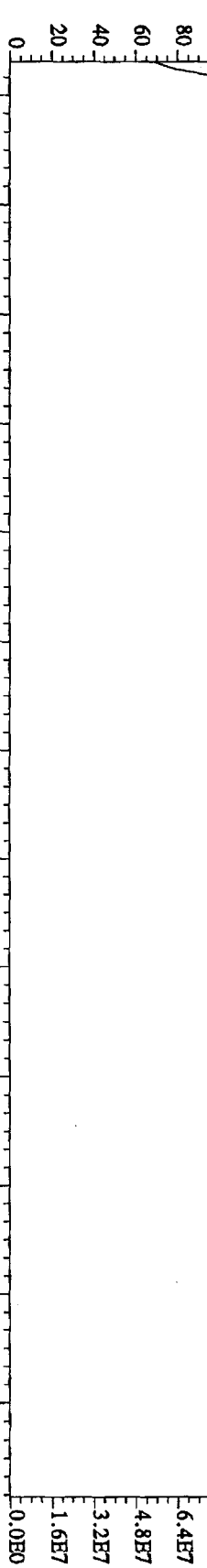
Sample#5 Text:STU721B :CS-2 10DXN334 Exp:DIOXINRES



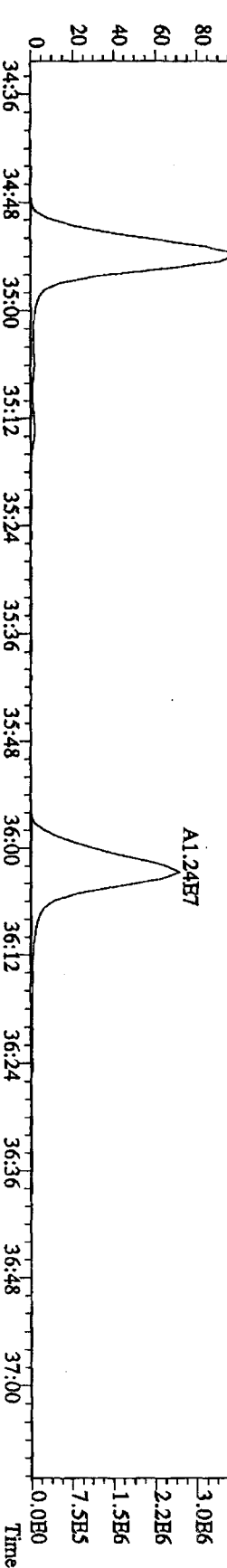
File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 17:33:53 GC: EI+ Voltage: SIR Autospec-UltimaB

Sample#5 Text: ST0721B : CS-2 10DXN334 Exp: DIOXINRES

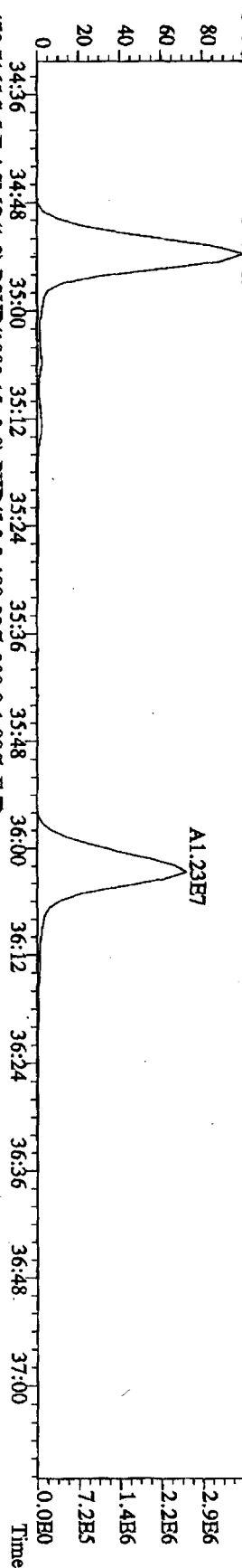
430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



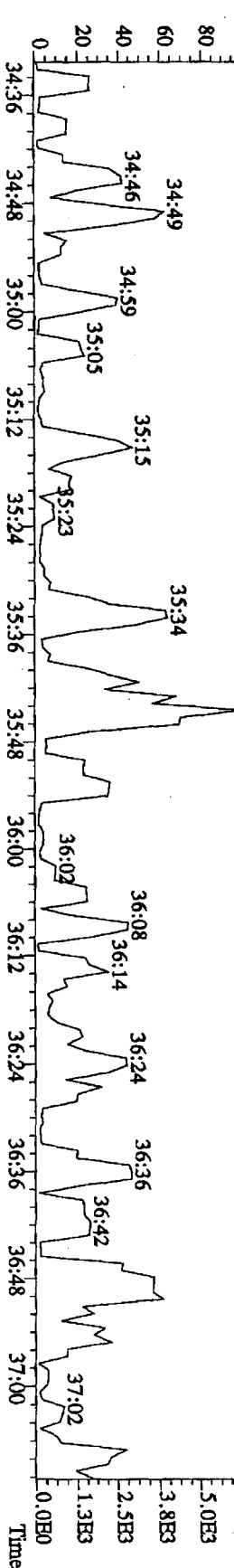
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8040.0,1.00%,F,T)



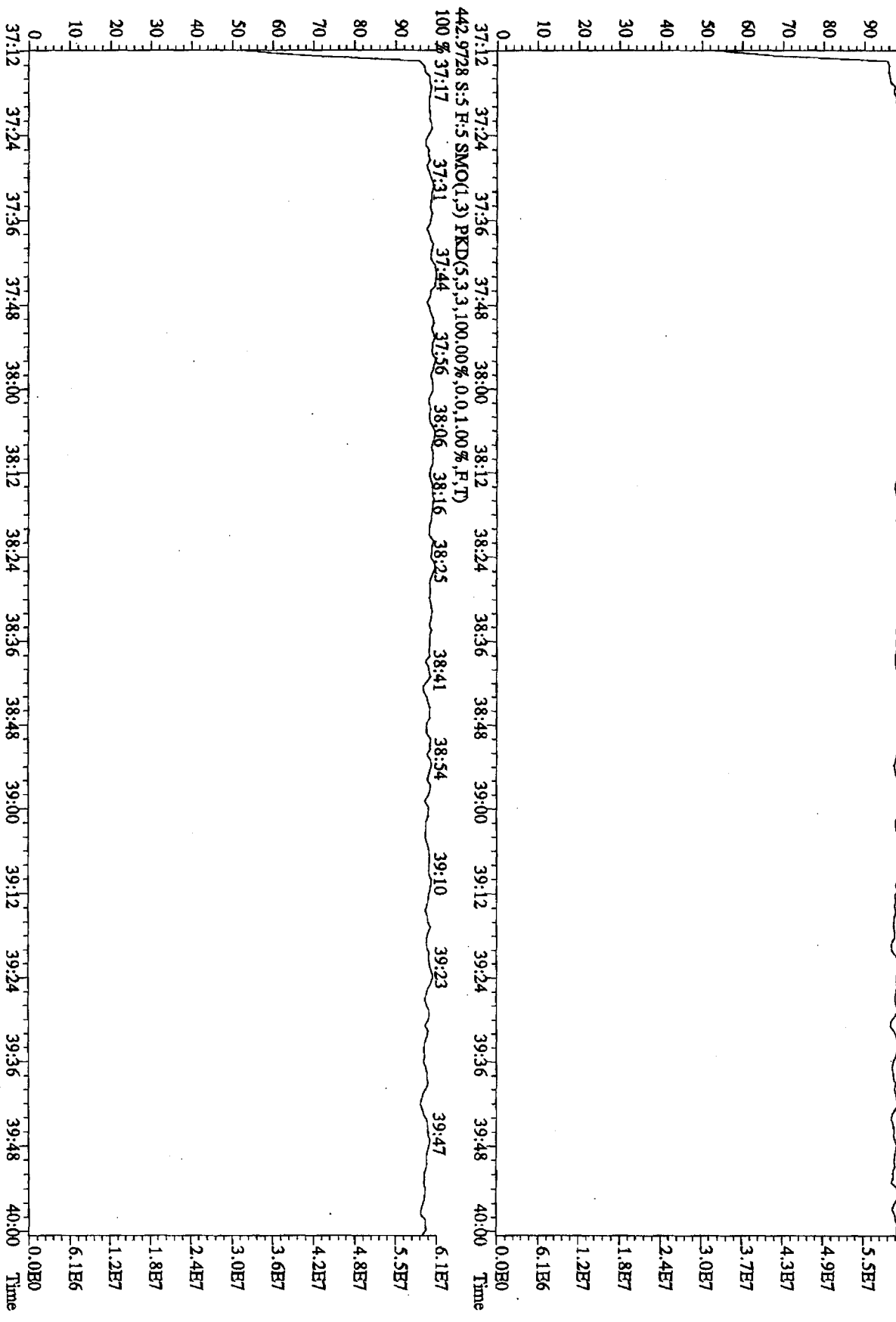
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5100.0,1.00%,F,T)



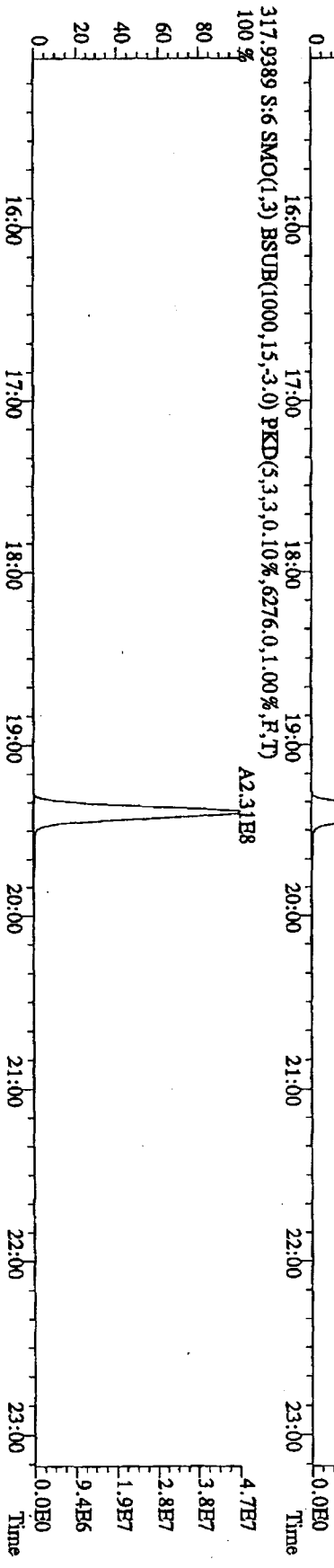
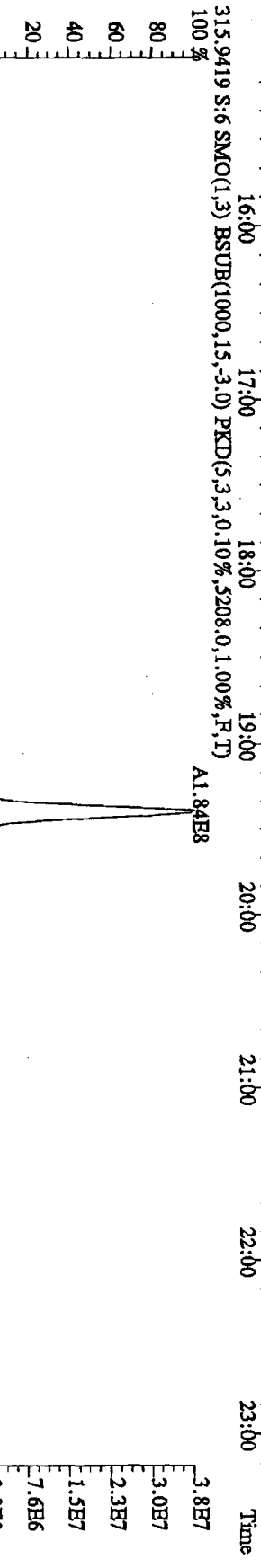
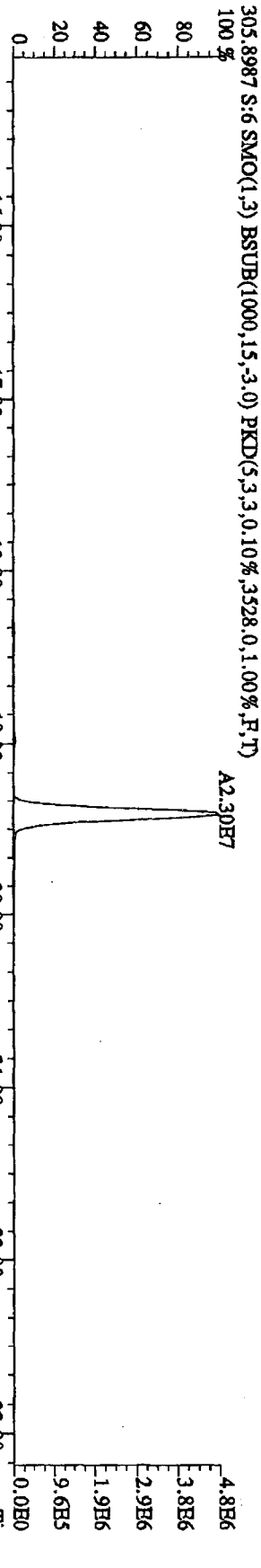
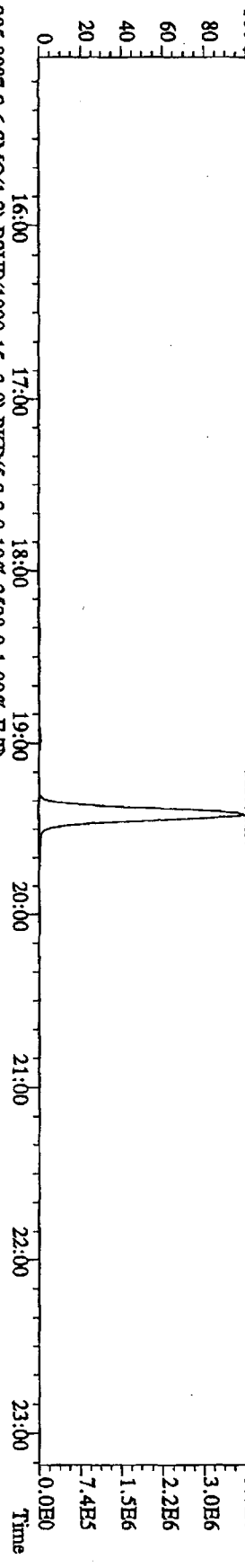
479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)



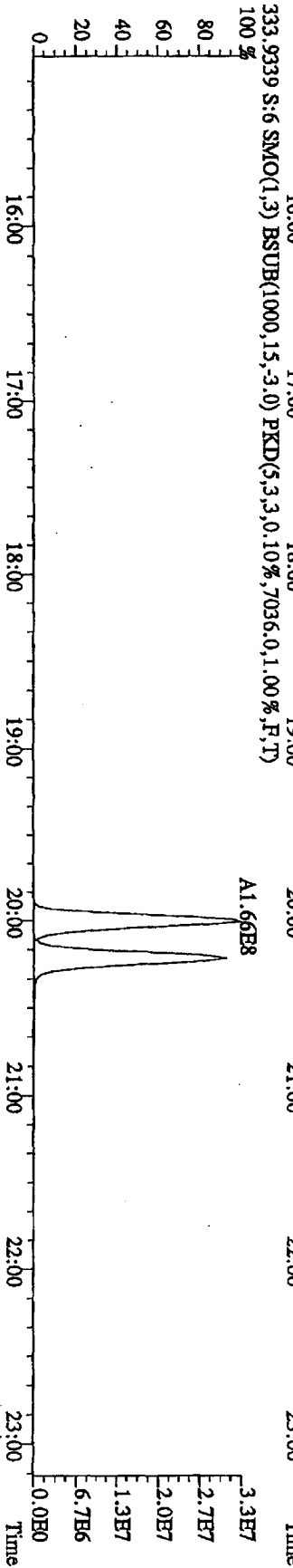
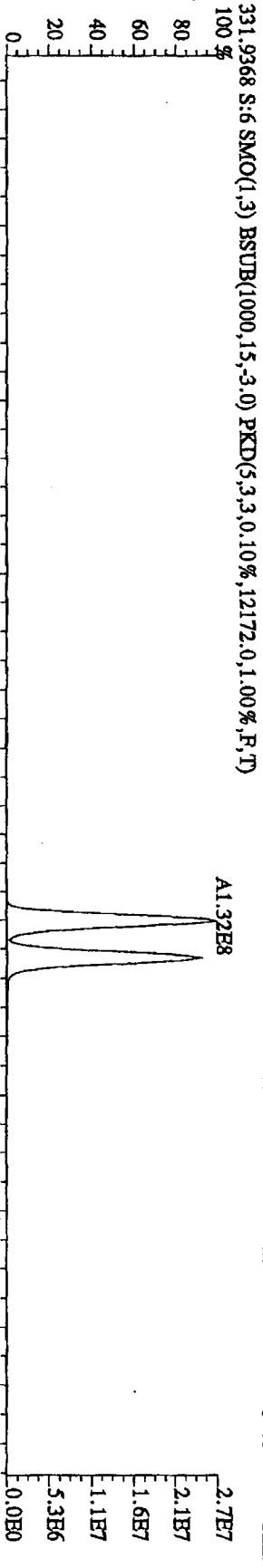
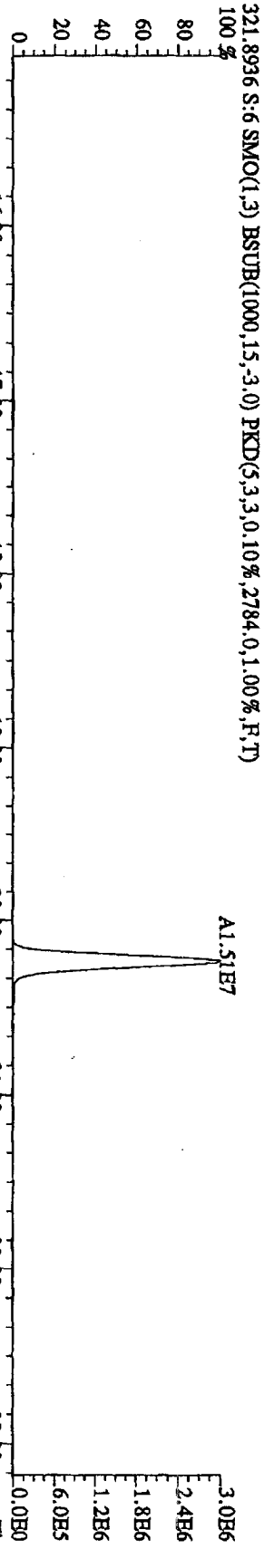
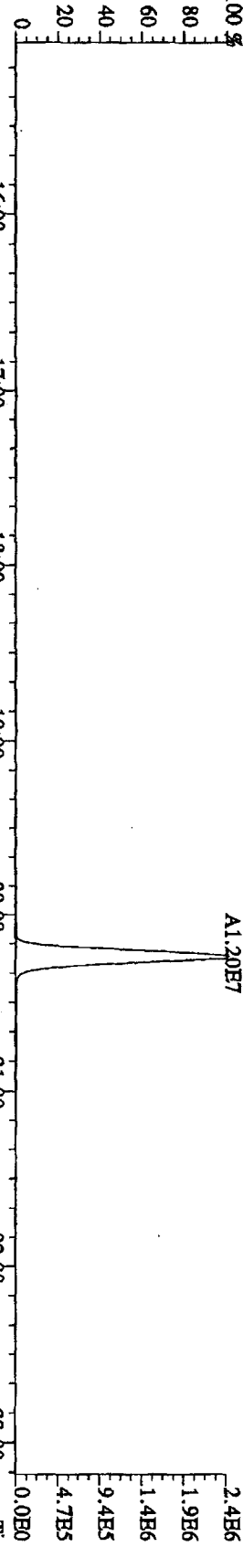
File: 21JUL10A4D5 #1-228 Acq: 21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES
 454.9728 S:5 F:5 SMO(1.3) PKD(5.3,3.100,0.0%,0.0,1.00%,F,T)
 100 % 37:20 37:31 37:51 38:09 38:25 38:44 38:57 39:07 39:22 39:42 39:55



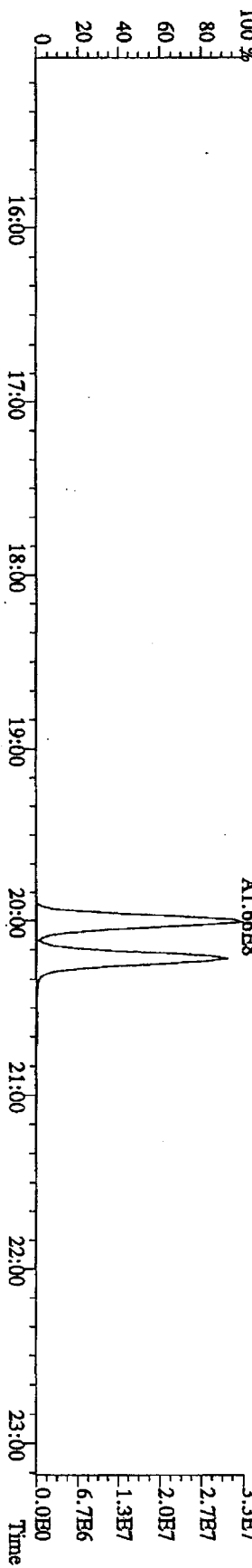
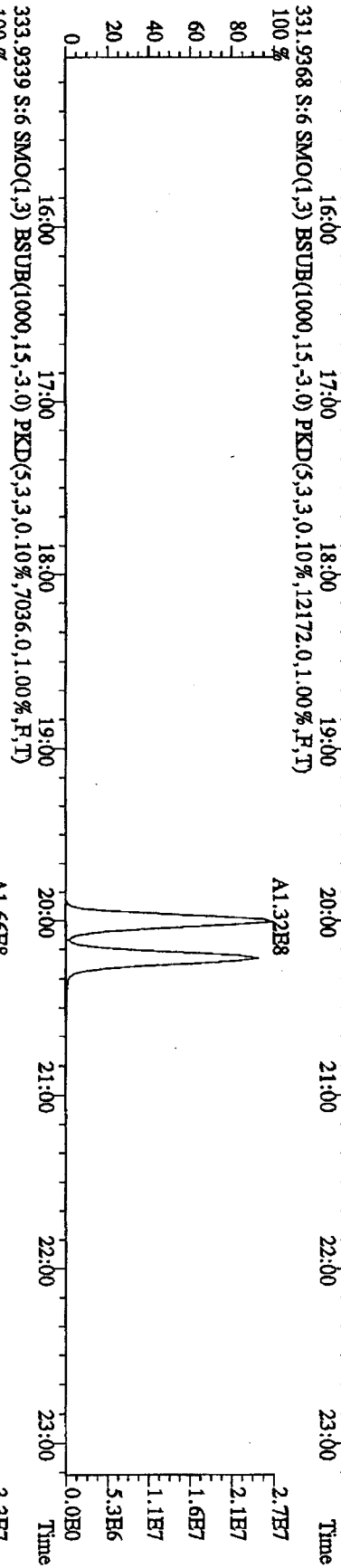
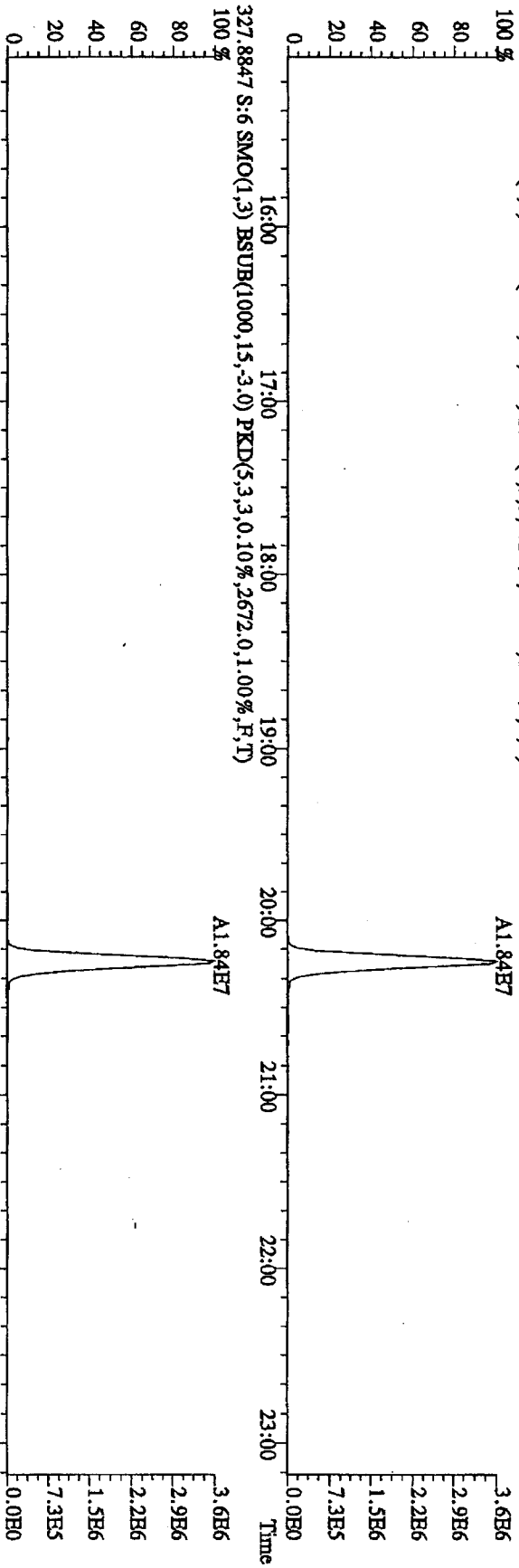
File:21IL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRHS
 303,9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2384,0,1,00%,F,T) 100%



File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340,0.1,0.00%,F,T)
 100 %

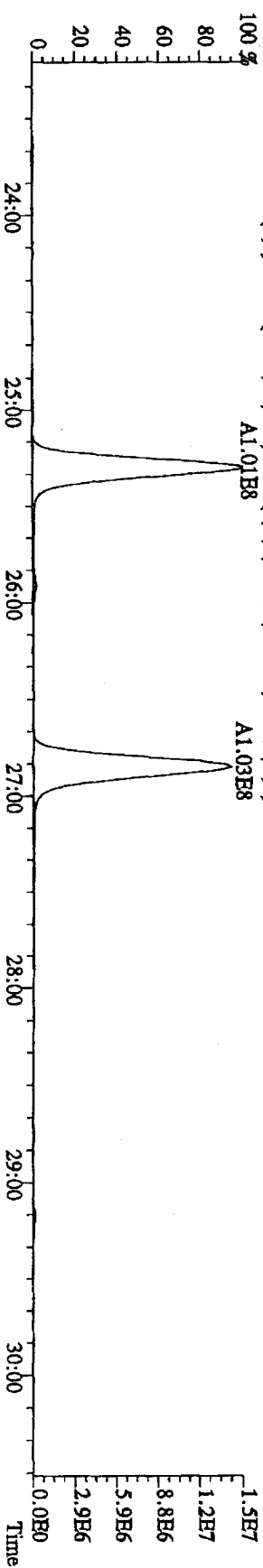
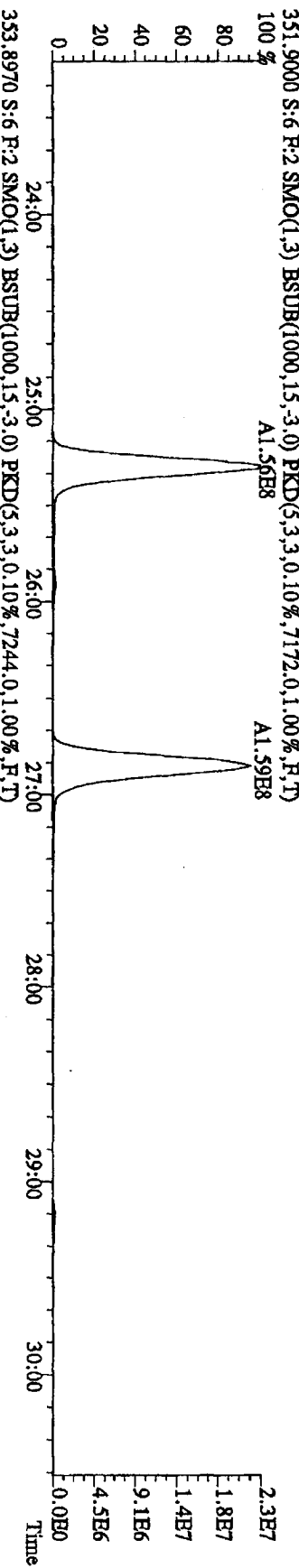
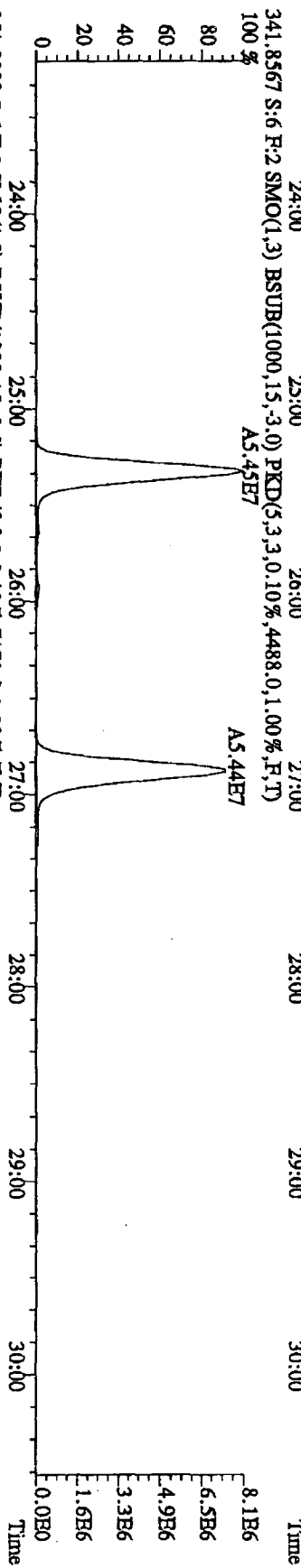
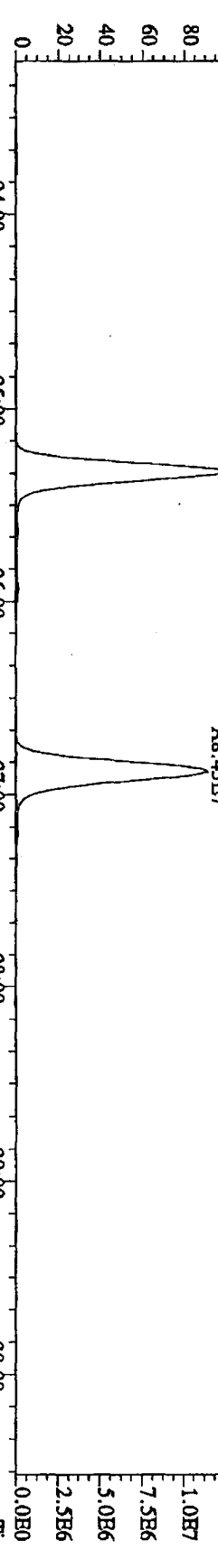


File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T) 100%

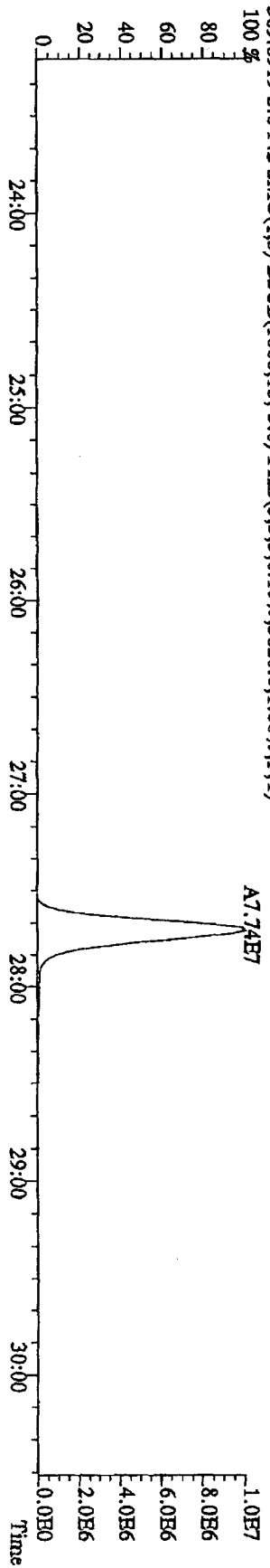
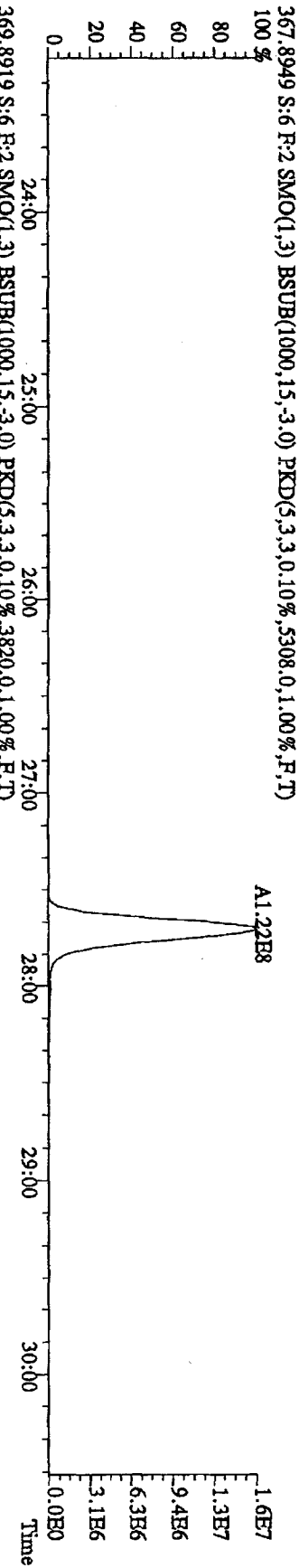
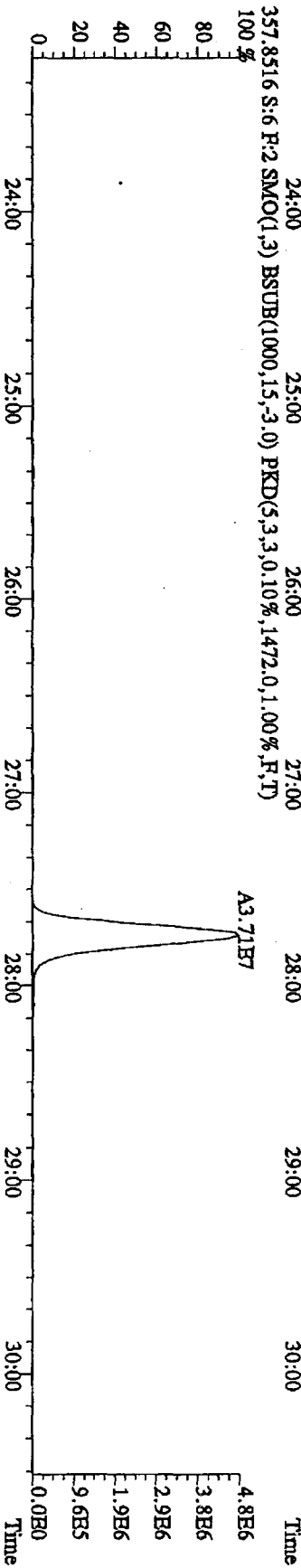
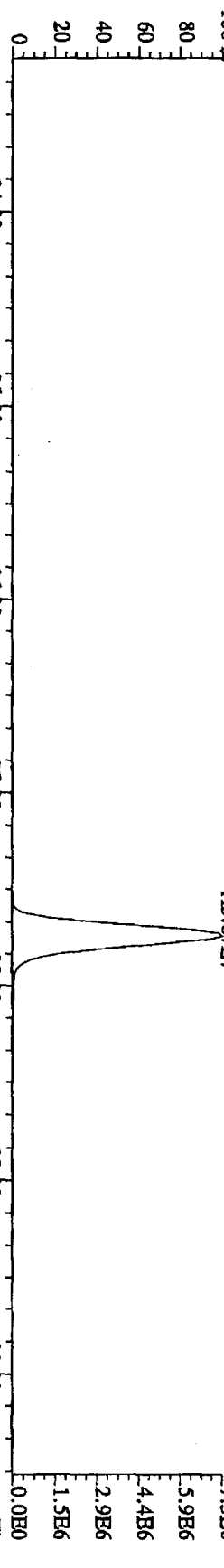


File:211L10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-Ultimah

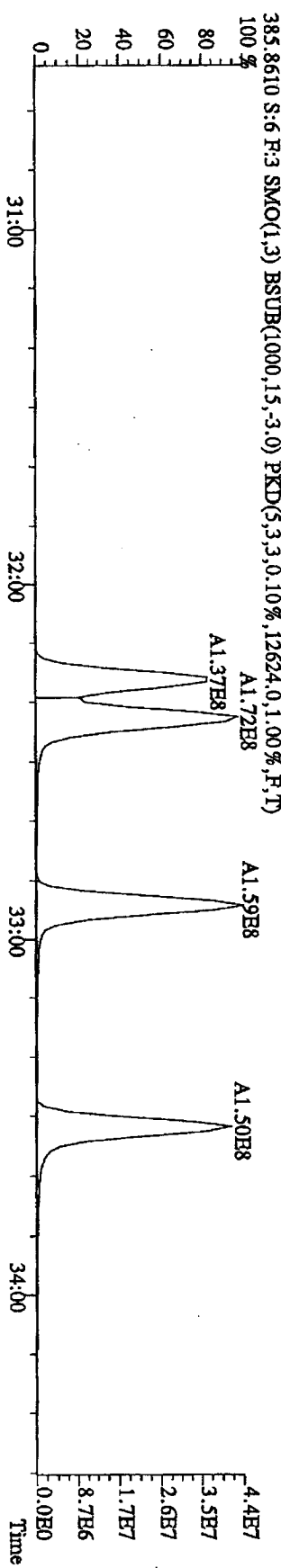
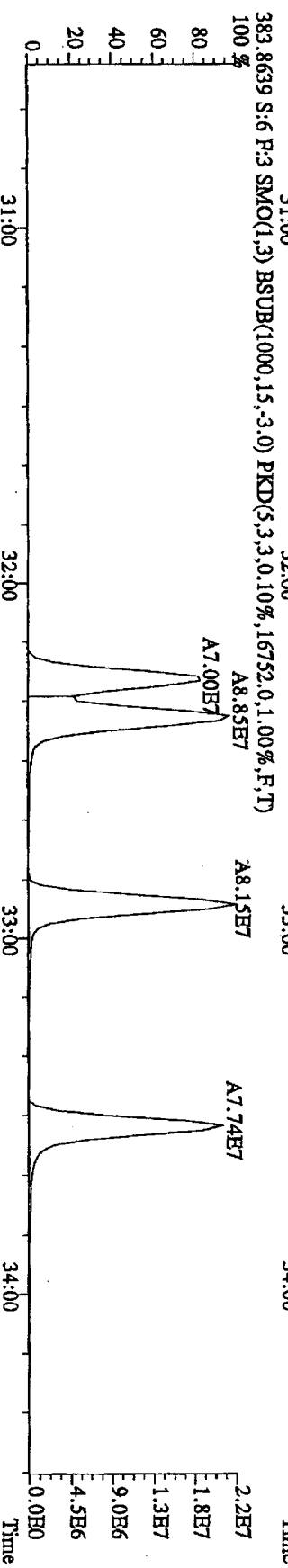
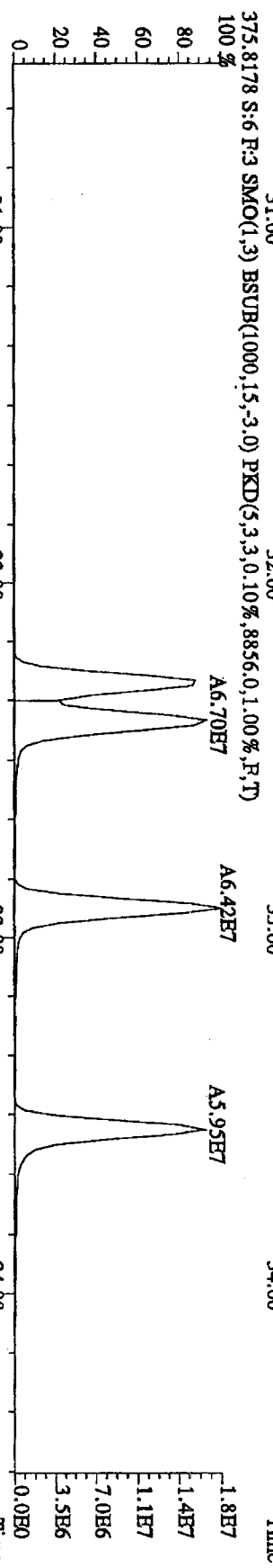
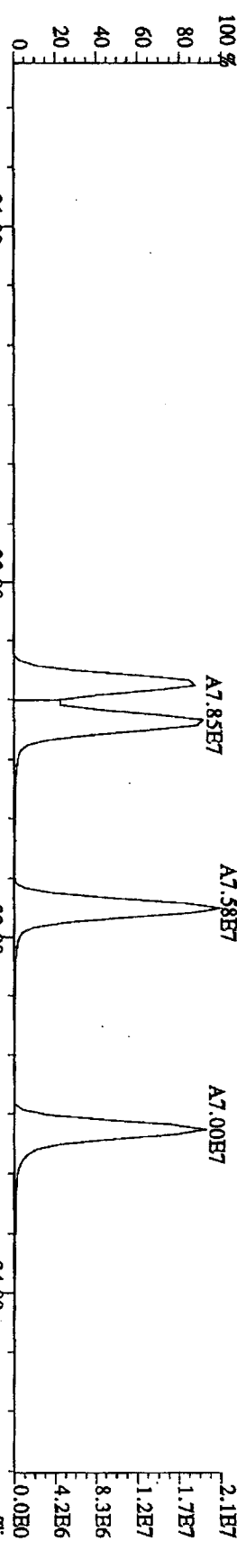
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



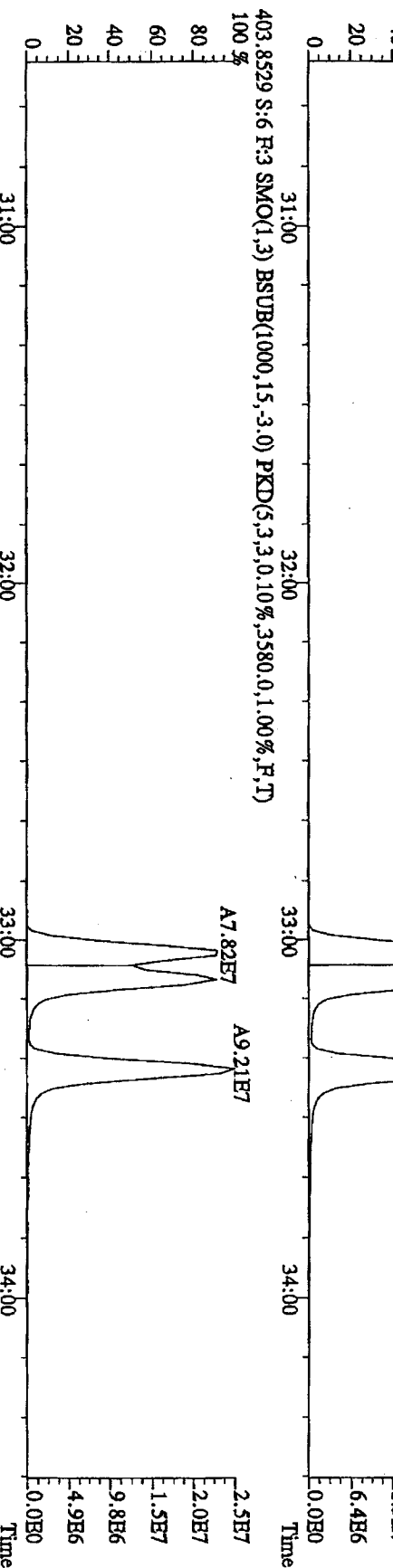
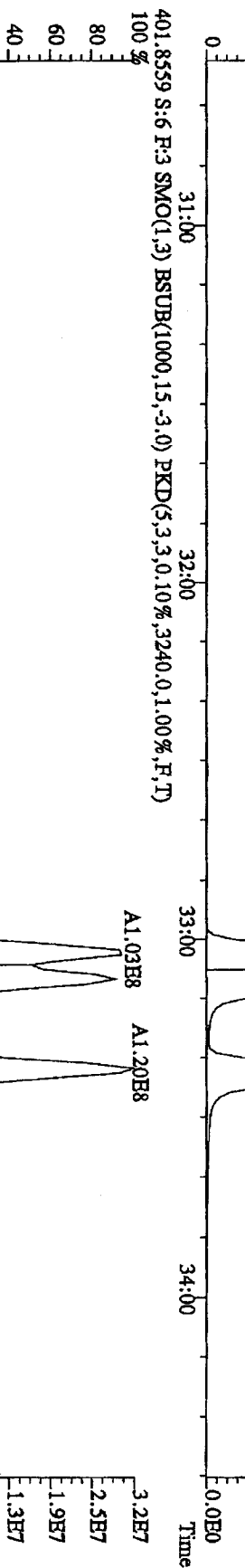
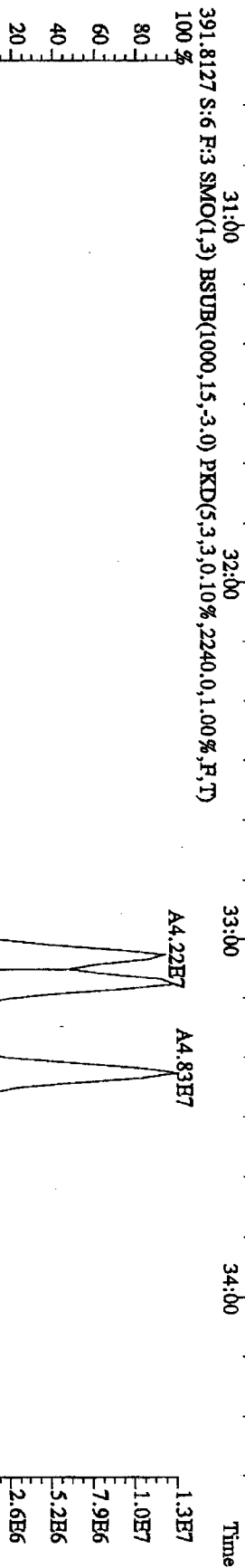
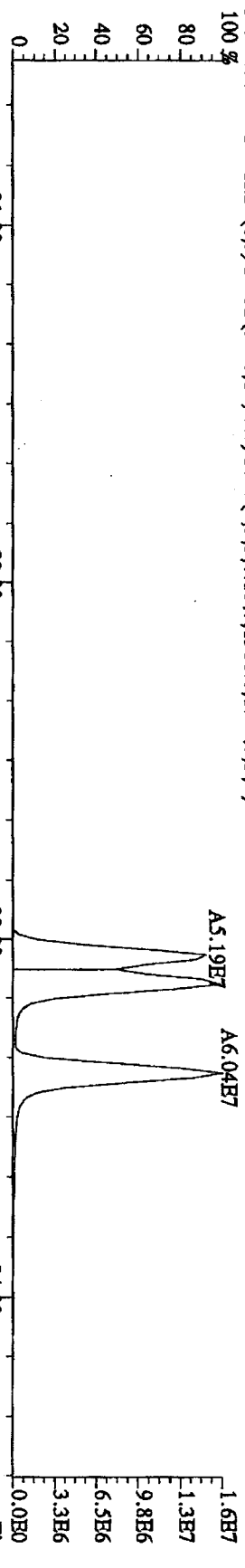
File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-Ultimah
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2856,0,1.00%,F,T)



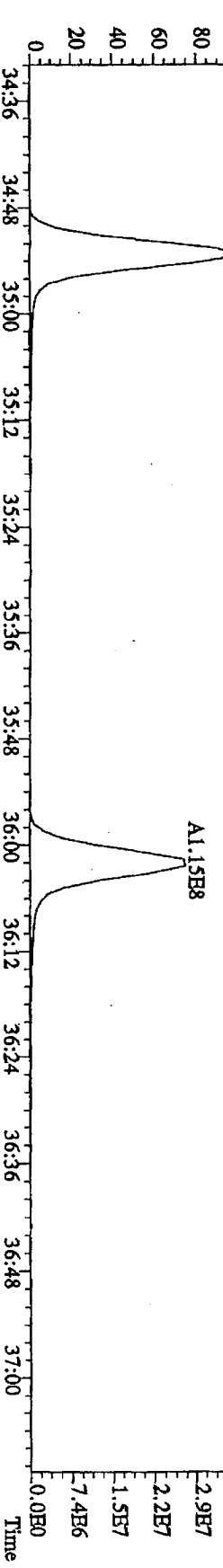
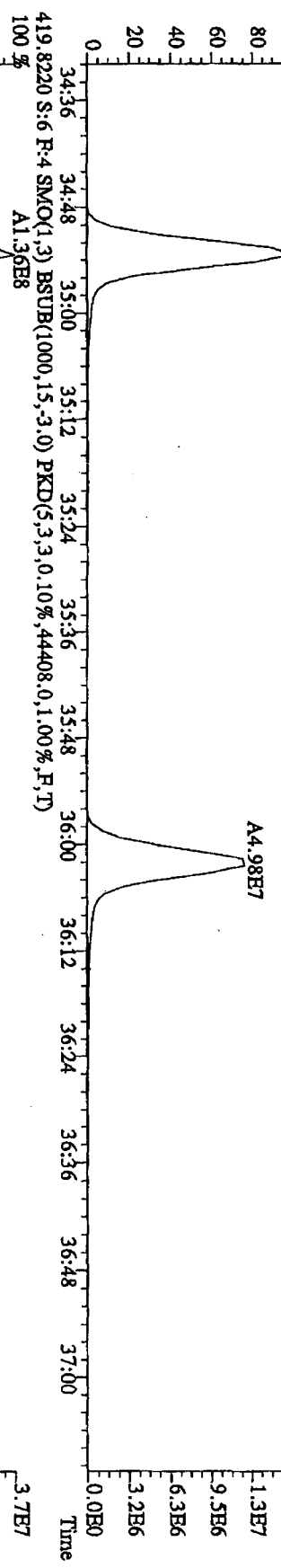
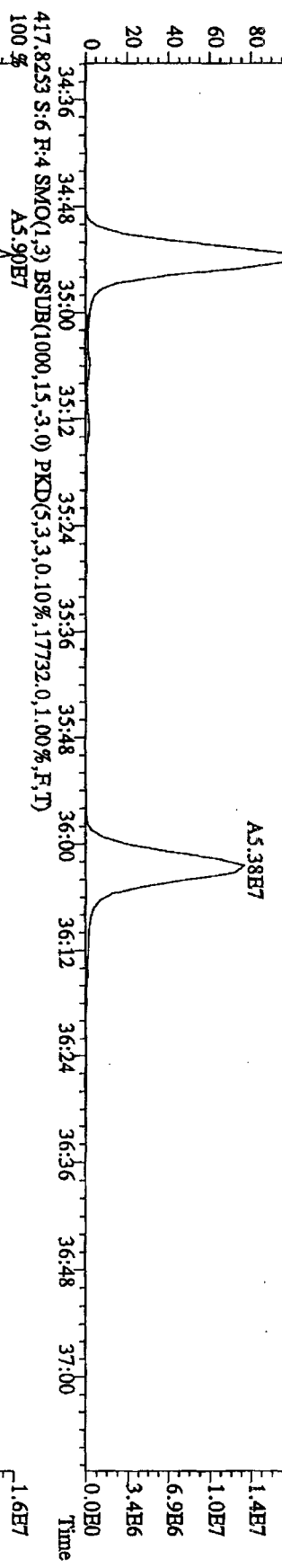
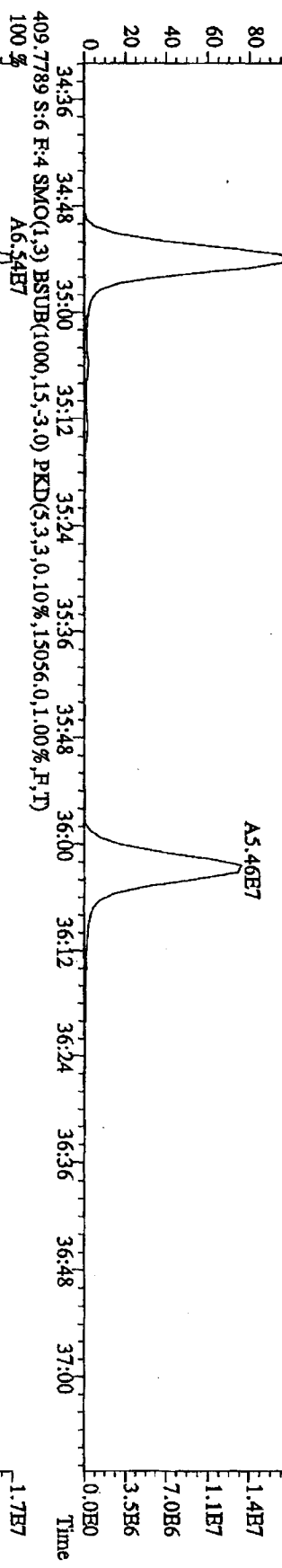
File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12848,0,1.00%,F,T)



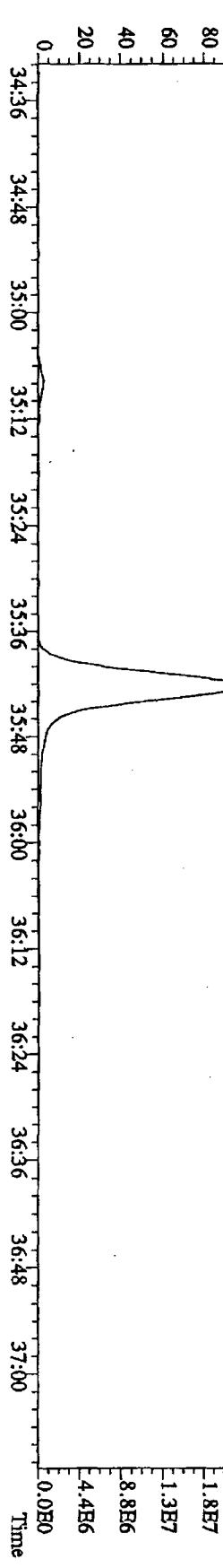
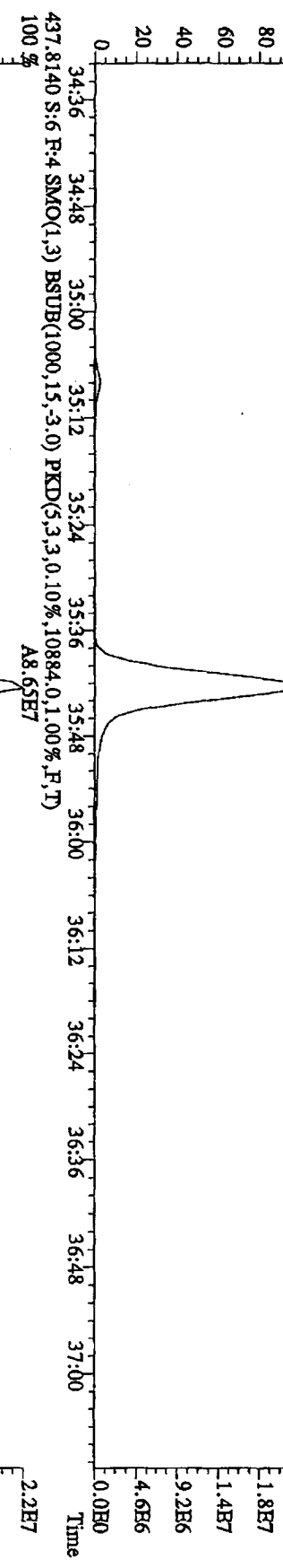
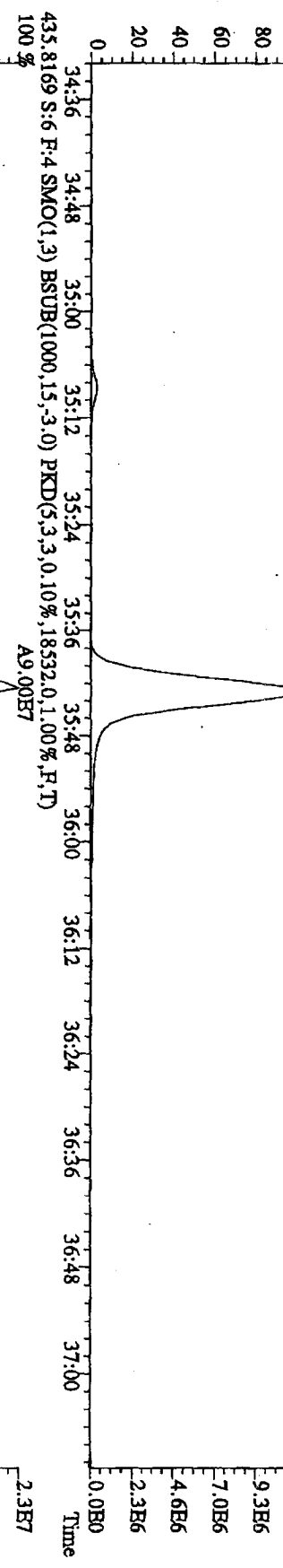
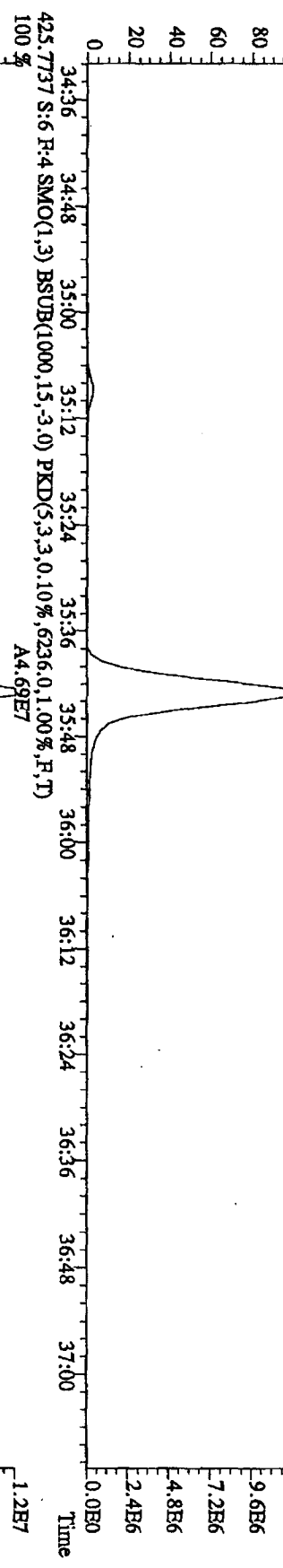
File:211L10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage STR Autospec-UltimaB
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXNRHS
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980.0,1.00%,F,T)



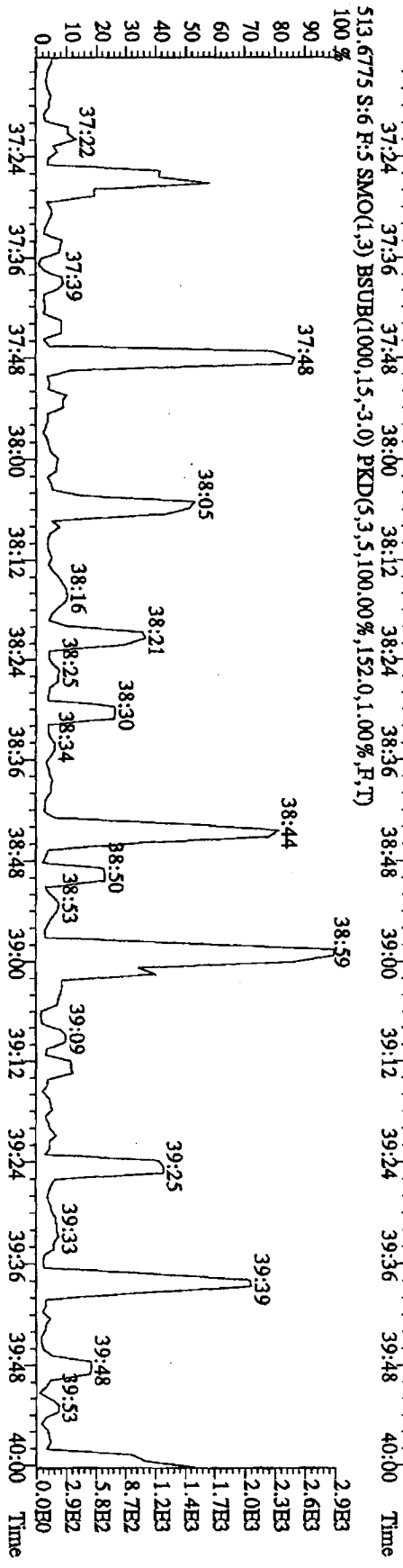
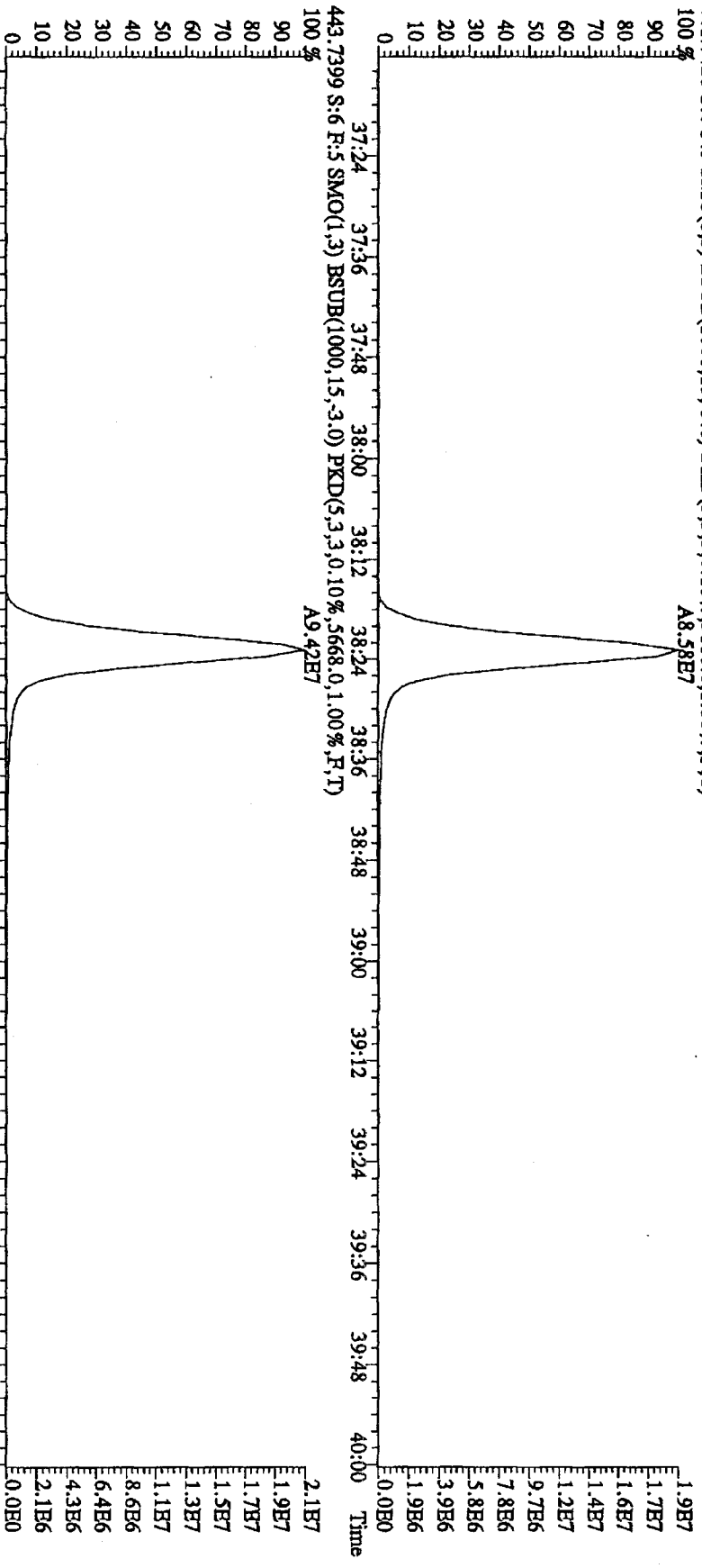
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 18:18:56 GC EI + Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10844,0.1,0.0%,F,T)
 100%



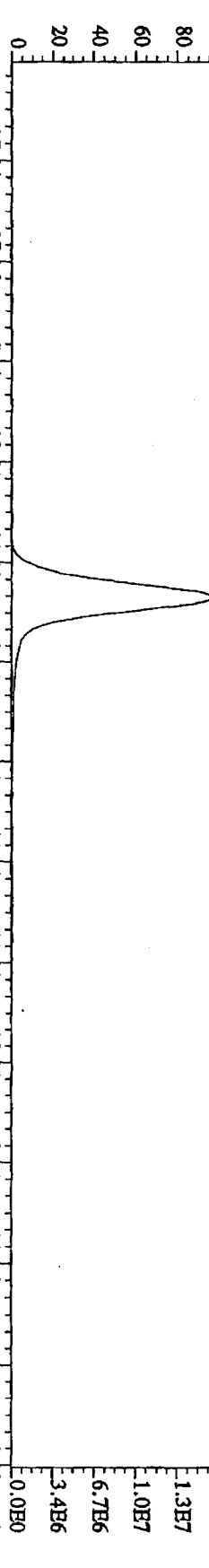
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 18:18:56 GC HI + Voltage SIR Autospec-Ultima B
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES
 423.7766 S:6 R:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7856,0.1,0.0%,F,T)
 100% A4.79E7



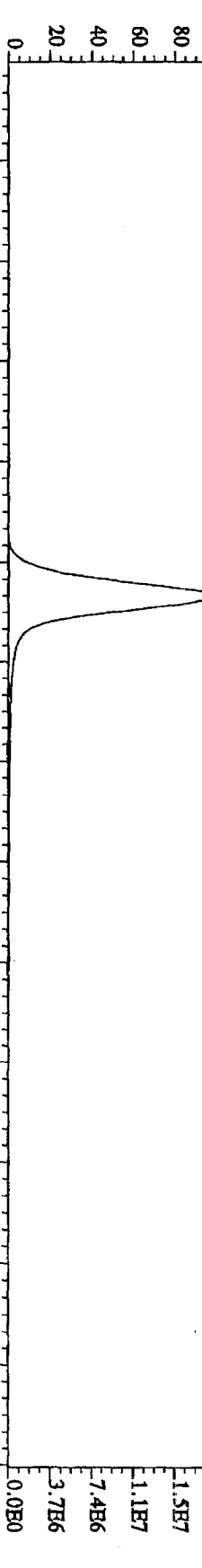
File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
 441.7428 S:6 F:5 SMO(1,3) BSTUB(1000,15,-3,0) PKD(5,3,3,0,10%,3800,0,1,00%,F,T)
 100%



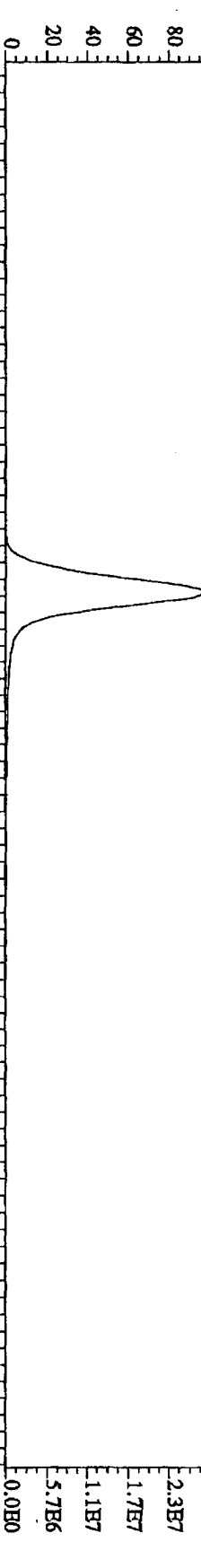
File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0721C :CS-3 IODXN36 Exp:DI0XNRES
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3472.0,1.00%,F,T)
 100% A7.29E7



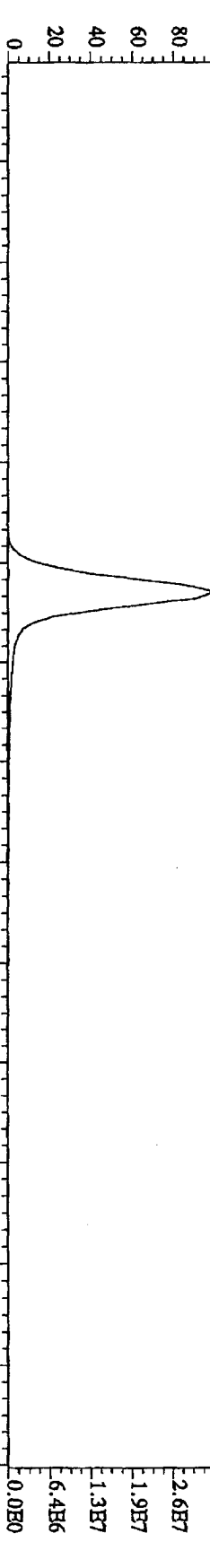
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7128.0,1.00%,F,T)
 100% A8.11E7



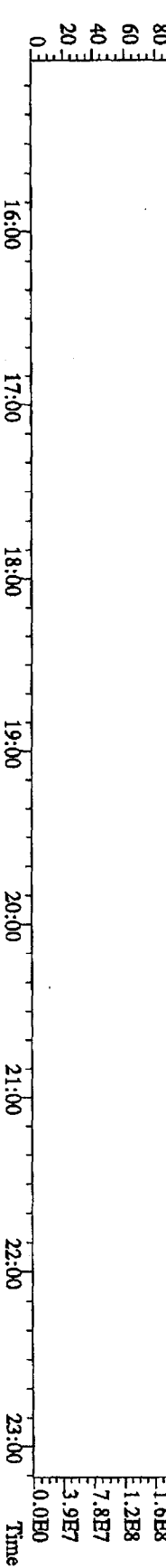
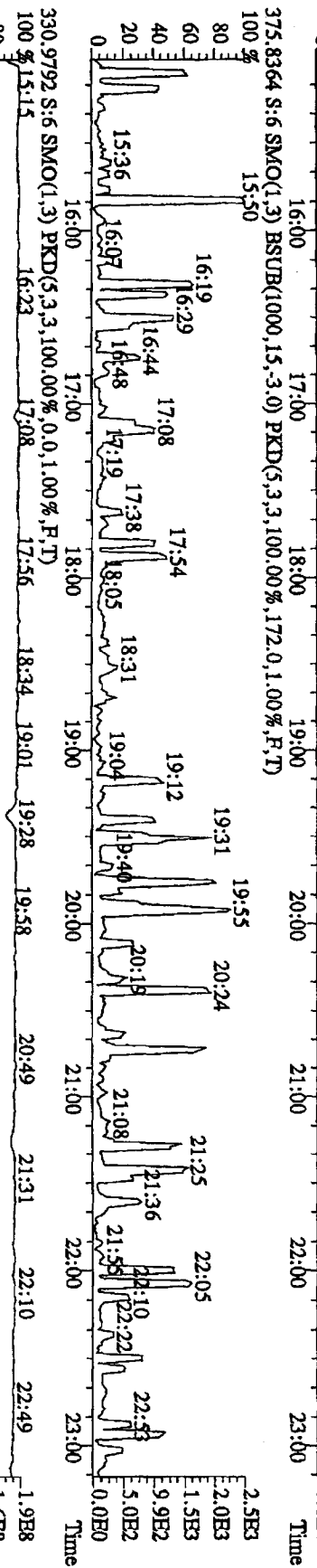
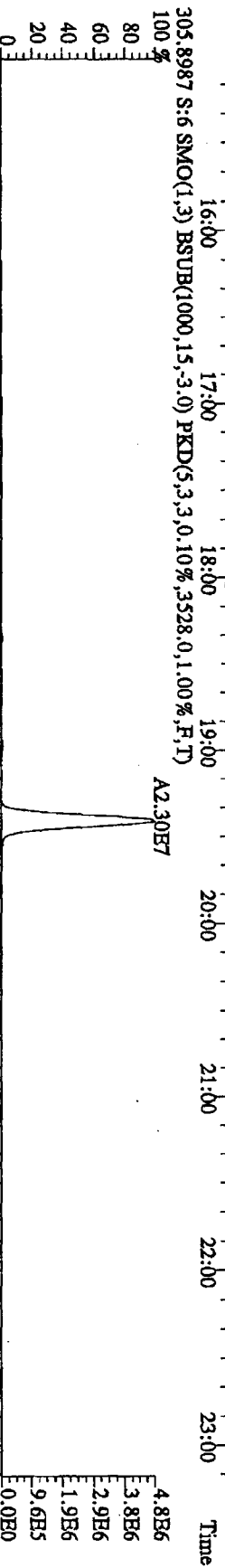
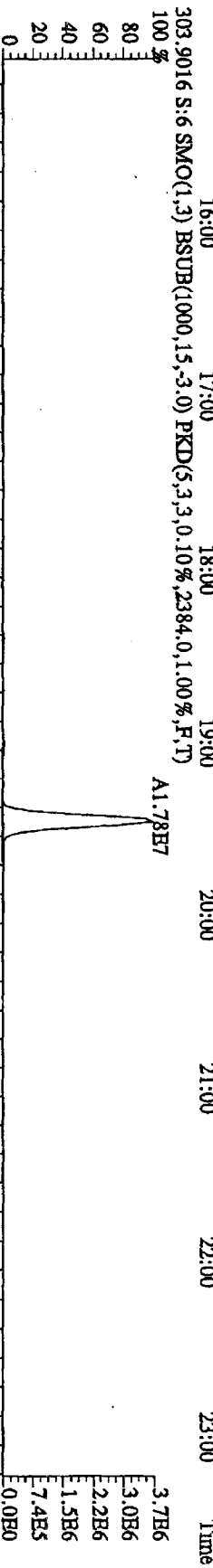
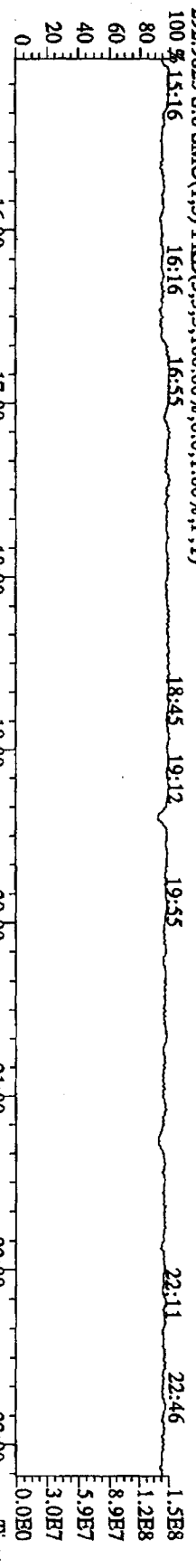
469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10384.0,1.00%,F,T)
 100% A1.25E8



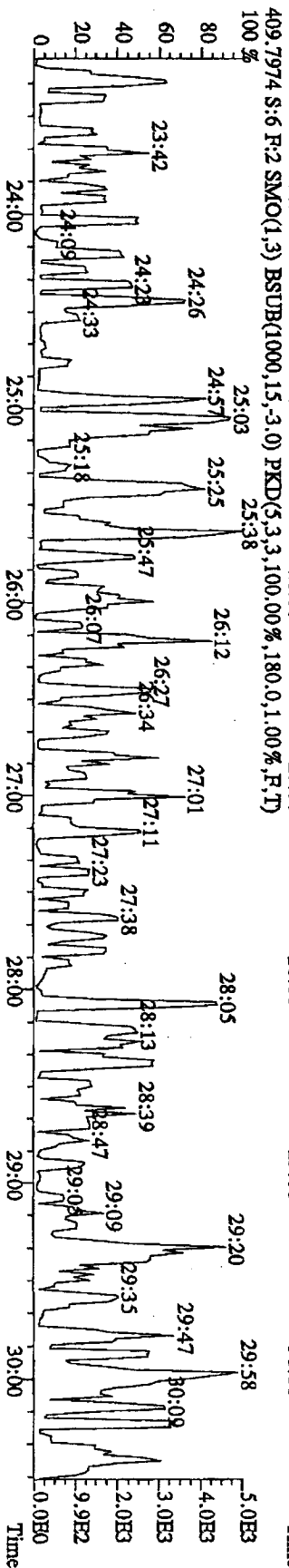
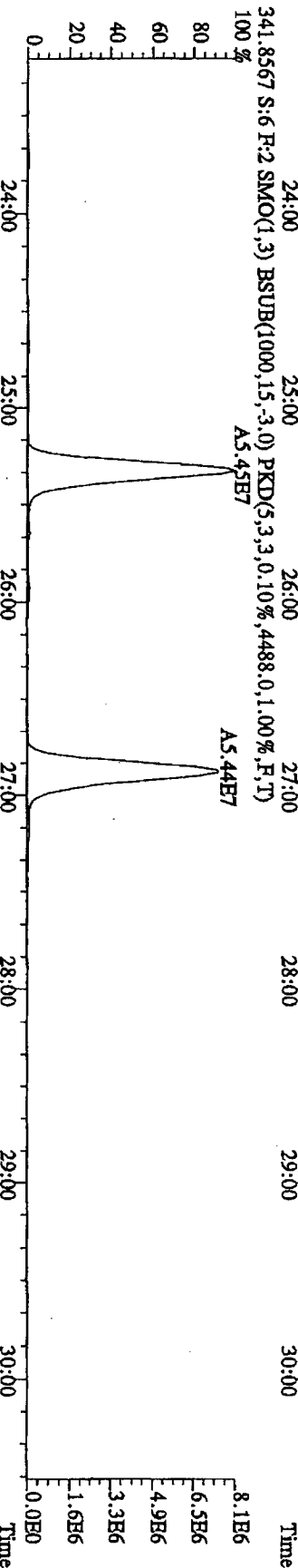
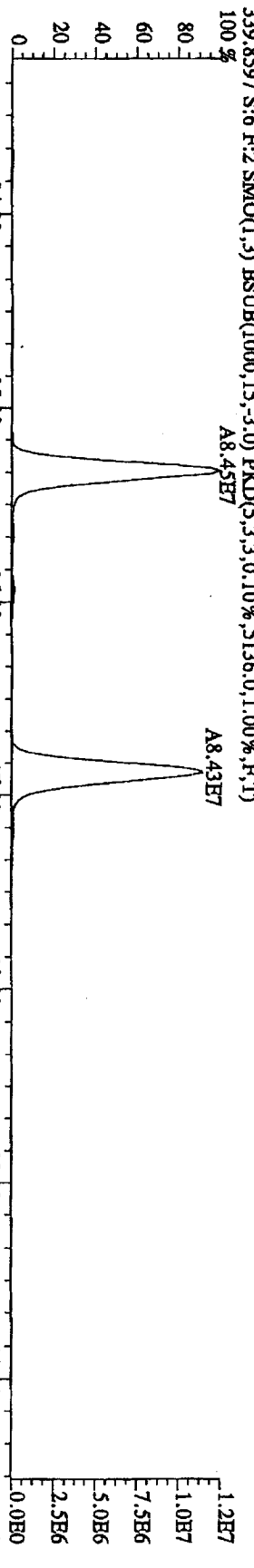
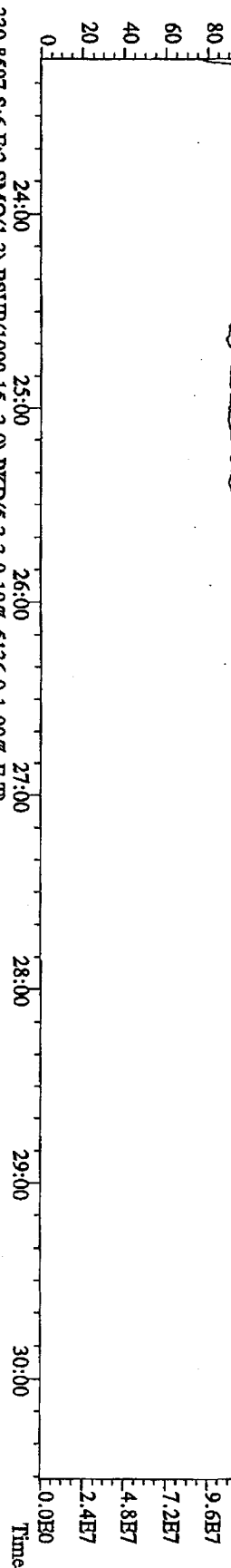
471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10596.0,1.00%,F,T)
 100% A1.41E8



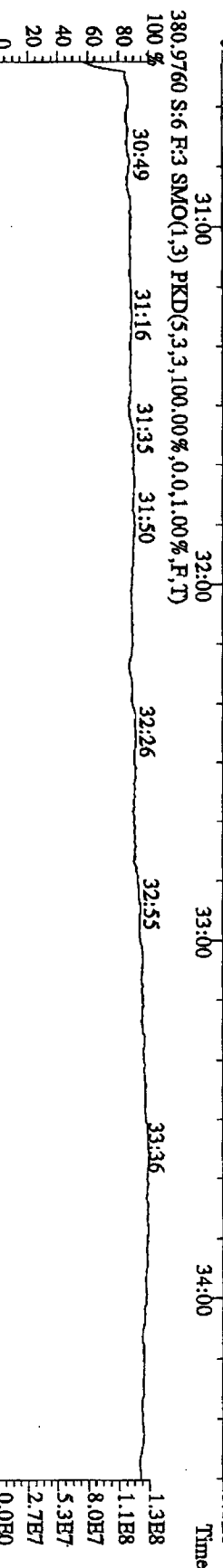
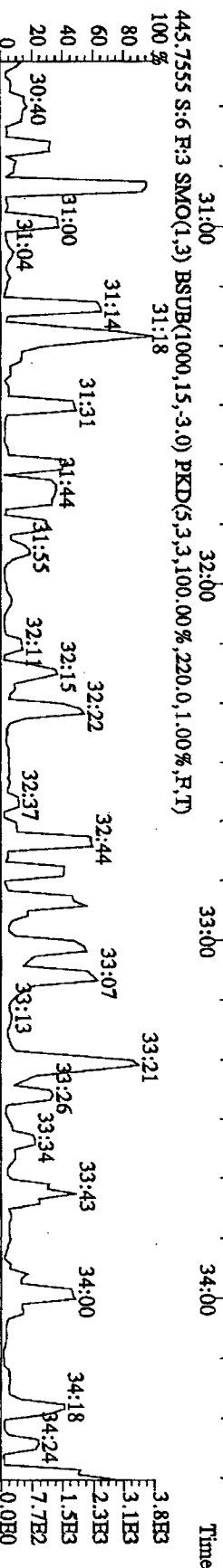
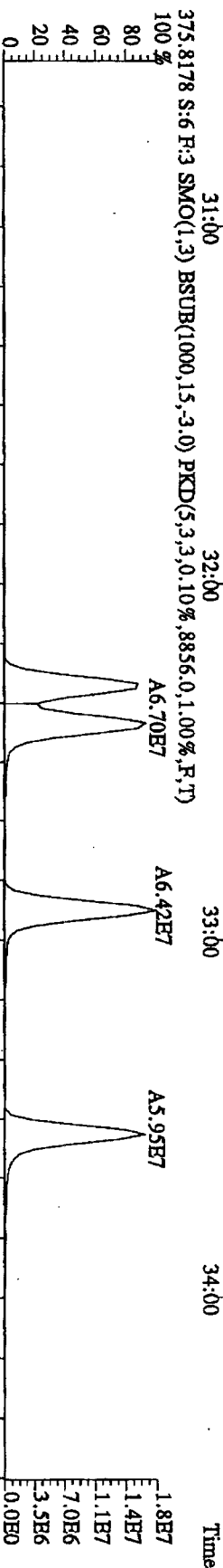
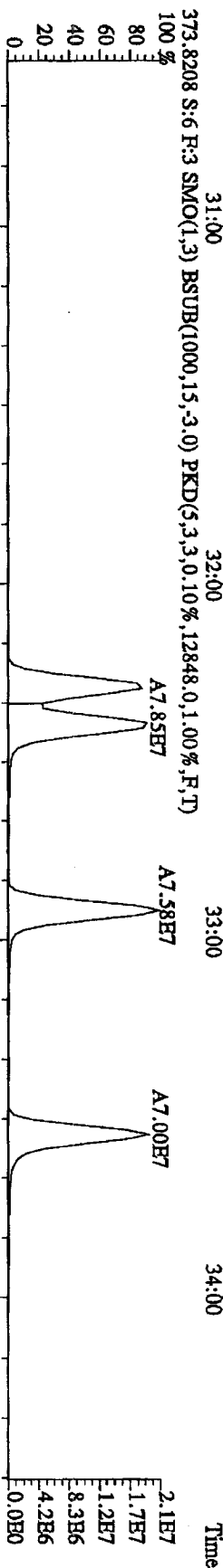
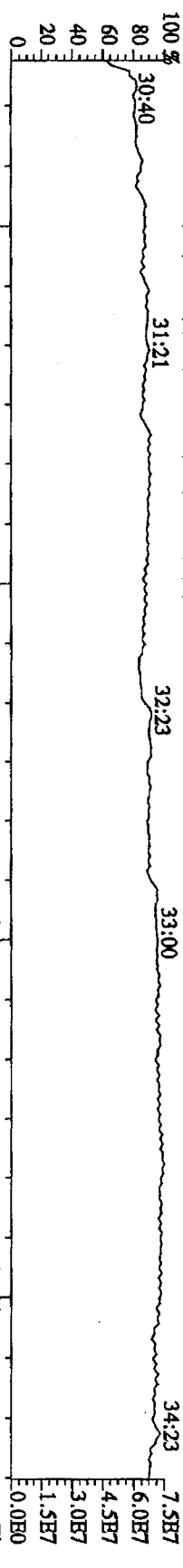
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0721C : CS-3 10DXN36 Exp: DIOXINRES
 297.9825 S:6 SMO(1,3) PKD(5,3,5,100,00%,0.0,1.00%,F,T)
 100% 15:15 16:16 16:55 18:45 19:12 19:55 22:11 22:46



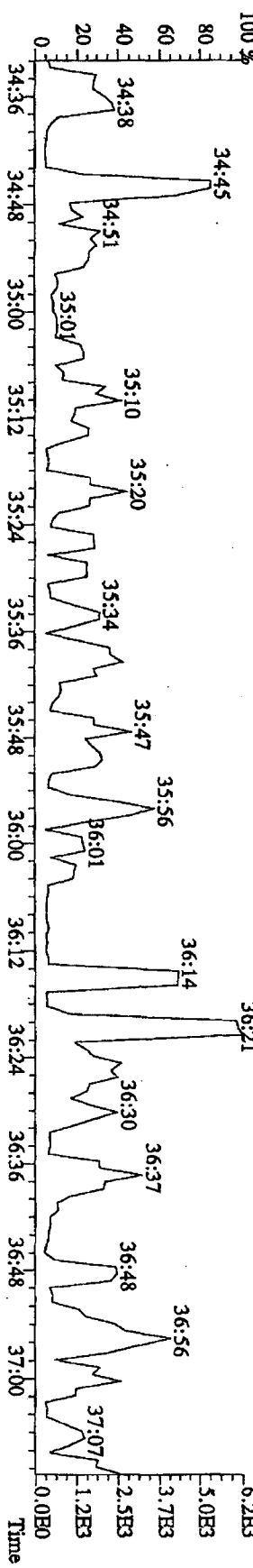
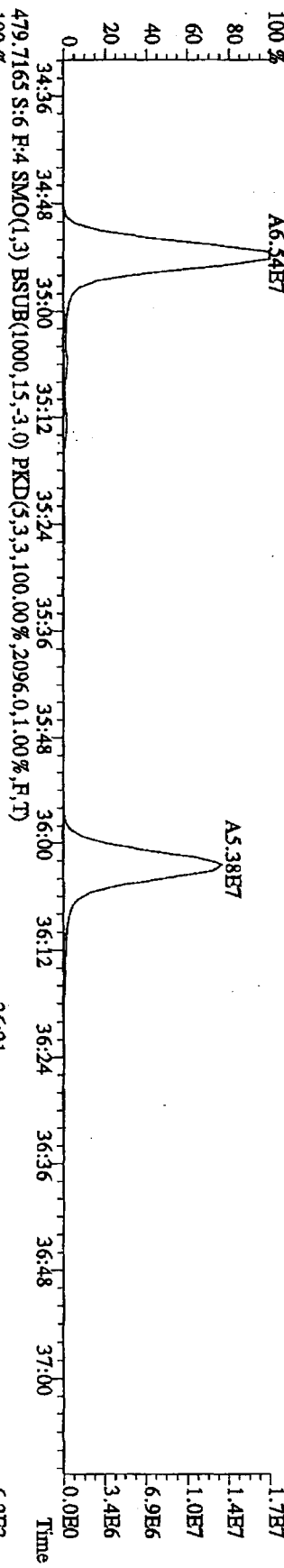
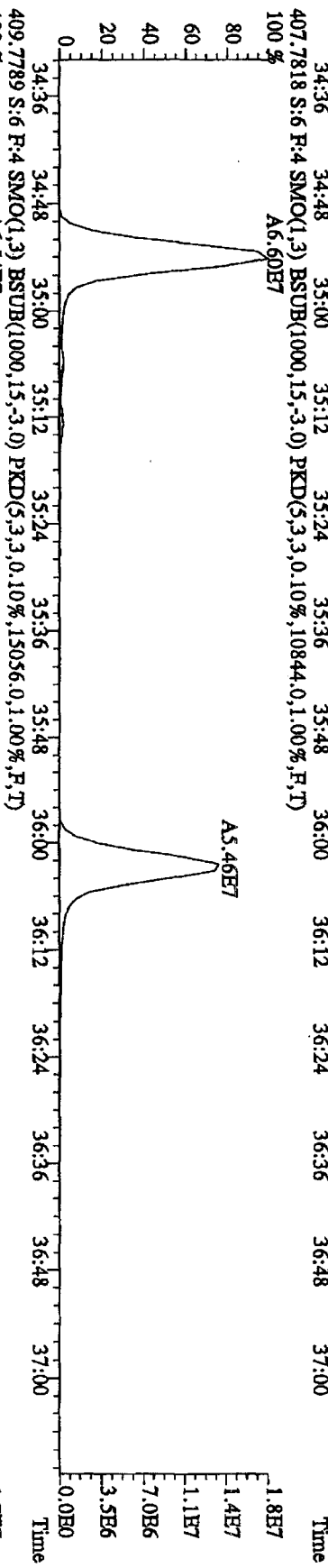
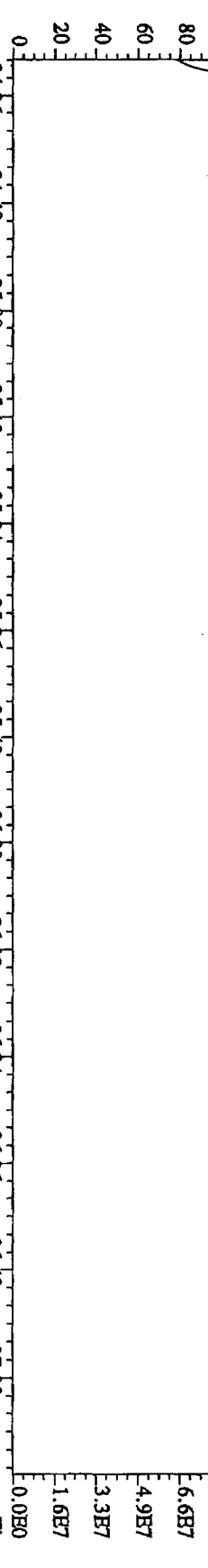
File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 18:18:56 GC EI+ Voltage SFR Autospec-UltimaB
 Sample#6 Text: ST0721C :CS-3 IODXN336 Exp: DIOXINRES
 342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:37 24:07 24:30 26:24 27:53 29:13 30:29



File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 18:18:56 GC BI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES
 392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

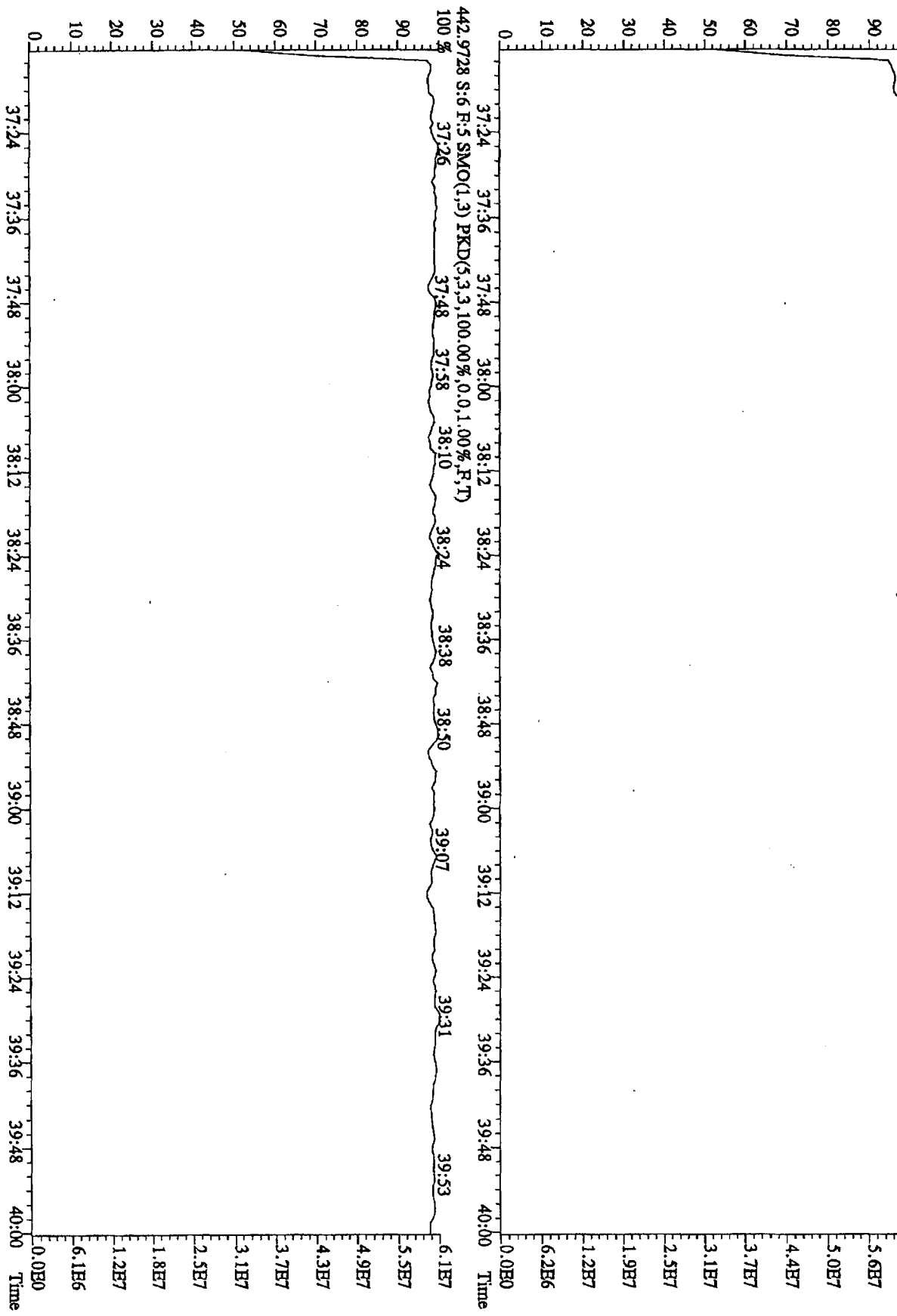


File:211110A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
 430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 984:34 34:45 35:01 35:24 35:45 35:58 36:32 36:41 36:52

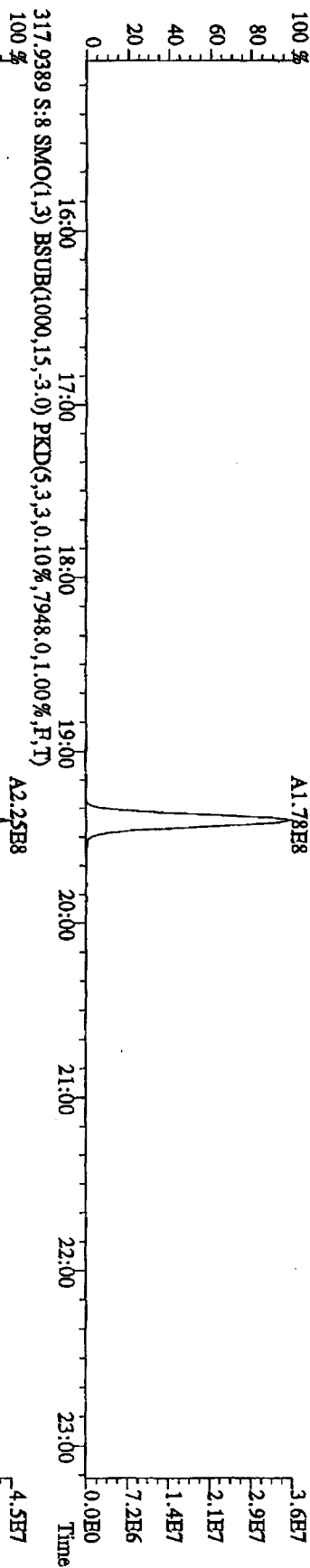
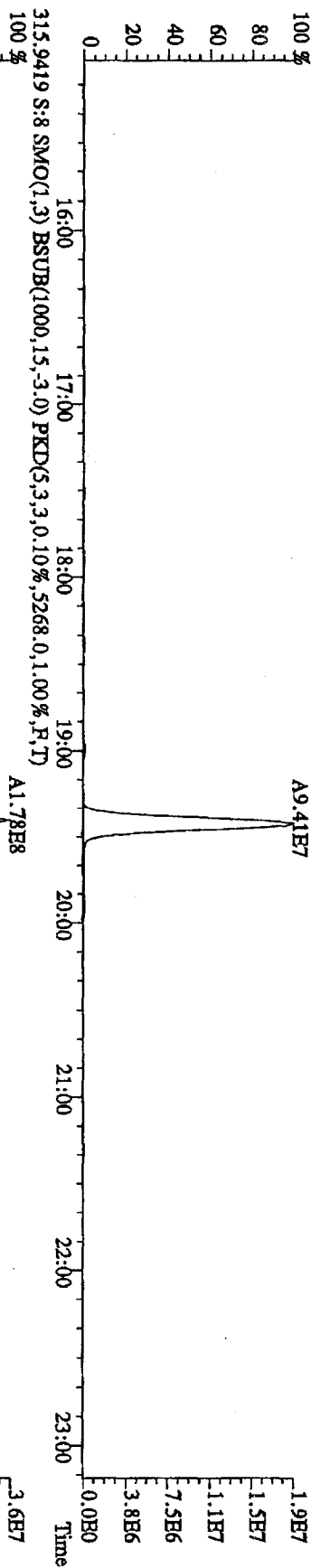
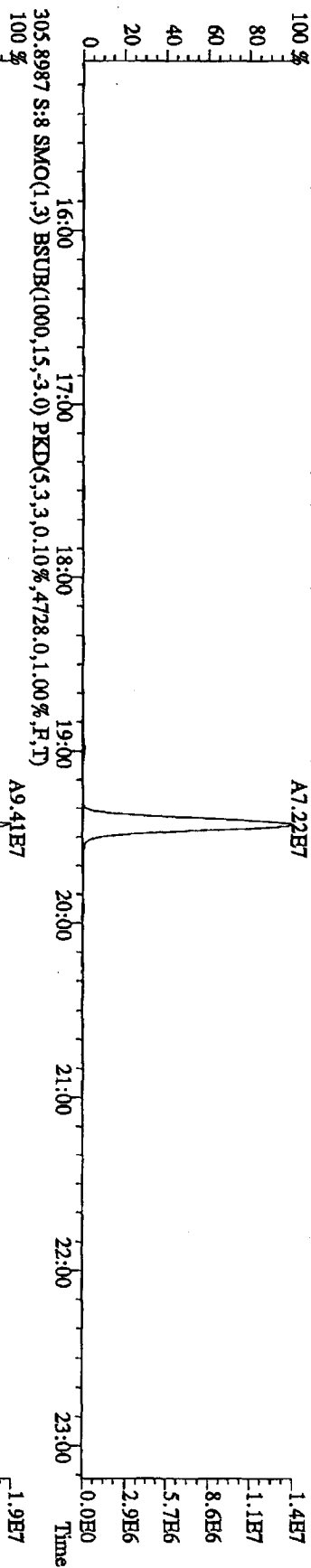


File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaB

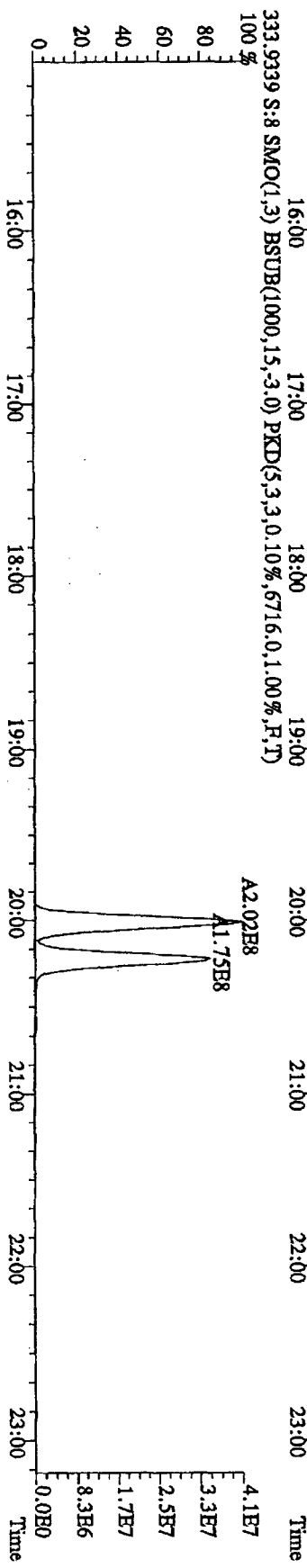
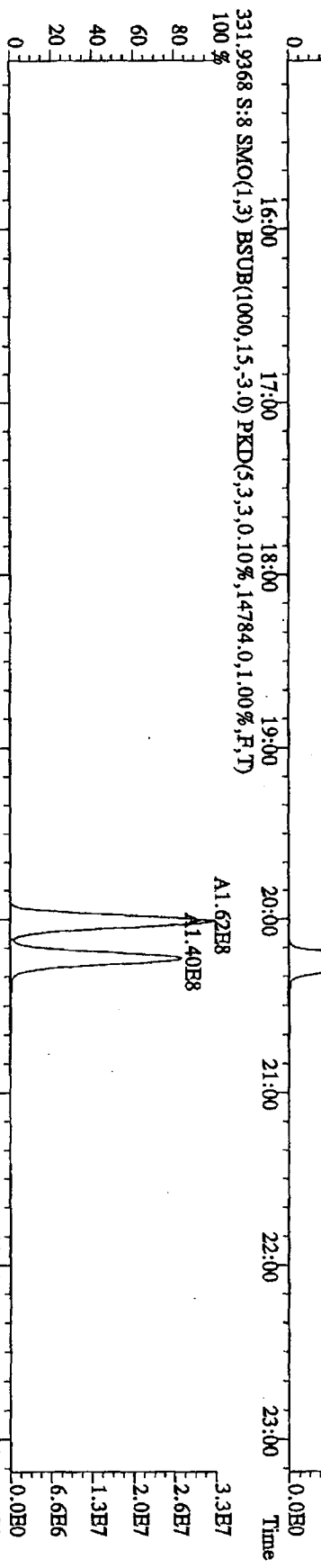
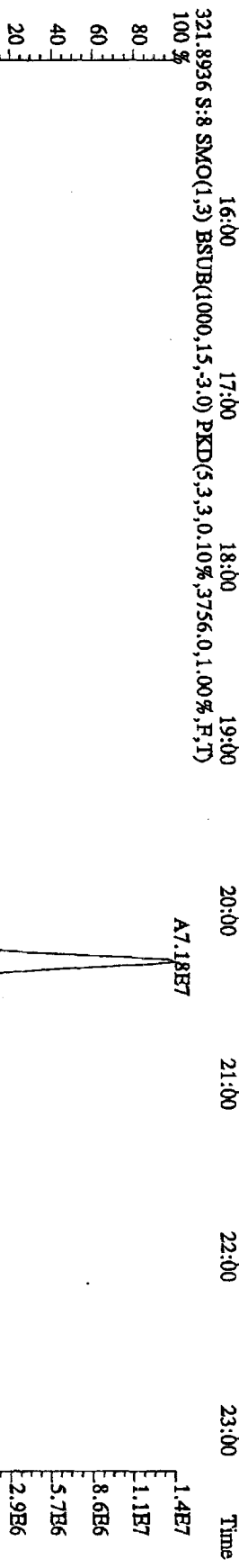
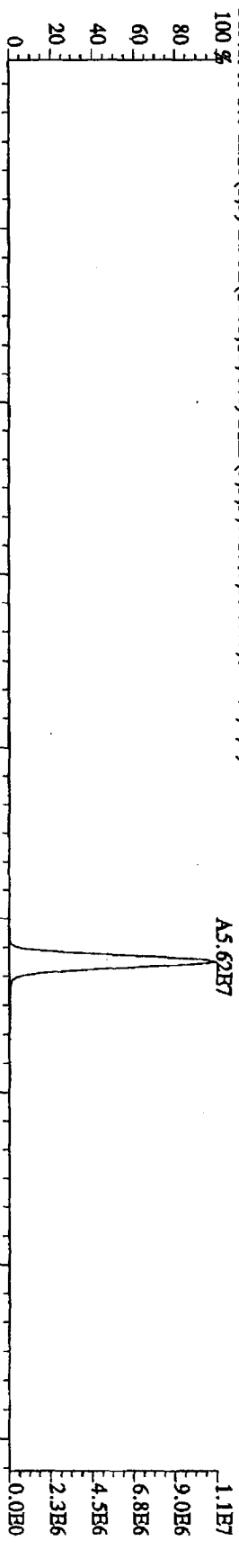
Sample# Text: ST0721C : CS-3 10DXN336 Exp: DIOXINRES
 454.9728 S: 6 F: 5 SMO(1.3) PKD(5.3, 3.100.00%, 0.0, 1.00%, F, T)



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#8 Text: ST0721B :CS-4 10DXN337 Exp: DIOXINRES
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3860,0,1,00%,F,T)
 100%



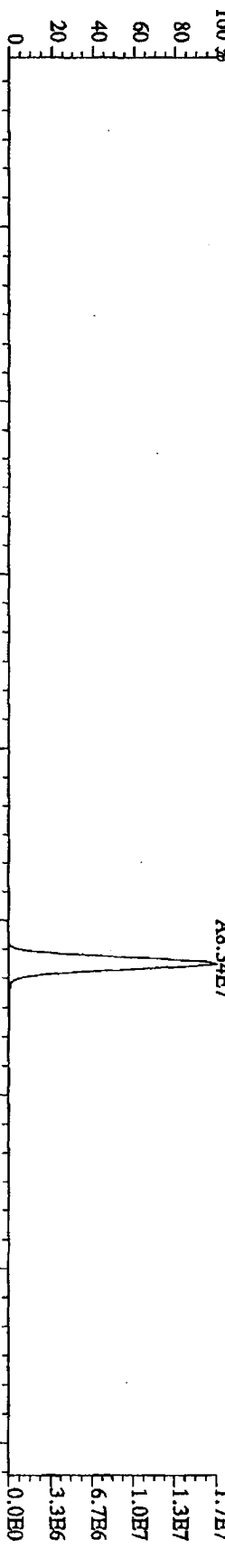
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 Text:ST0721B :CS-4 10DXN337 Exp.:DIOXINRES
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)



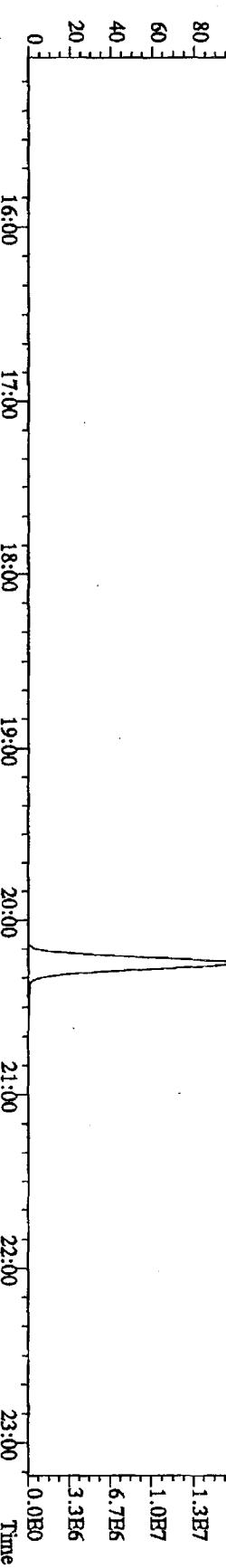
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:49:00 GC HI+ Voltage SIR Autospec-UltraM

Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRBS

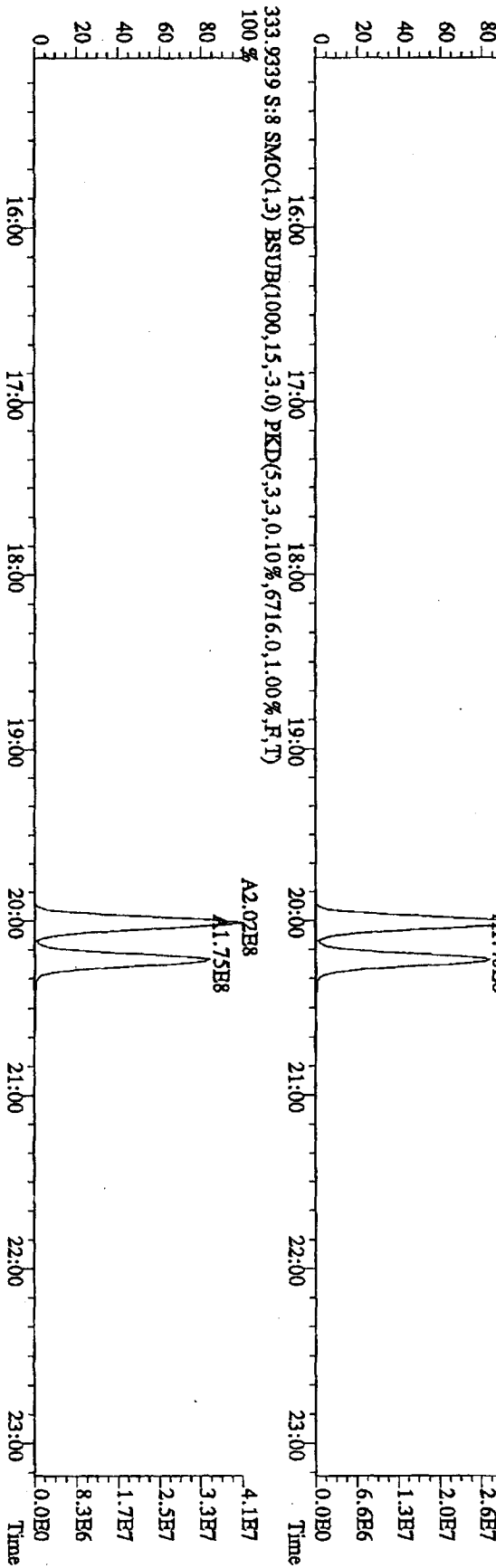
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2328,0,1,00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14784,0,1,00%,F,T)

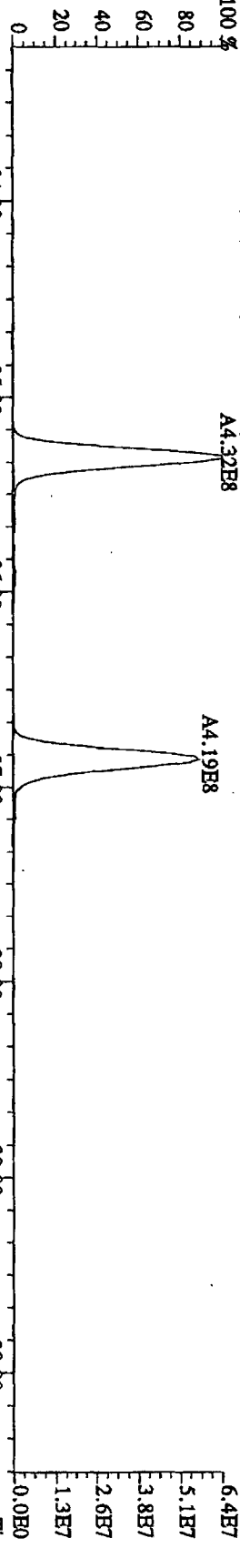


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6716,0,1,00%,F,T)

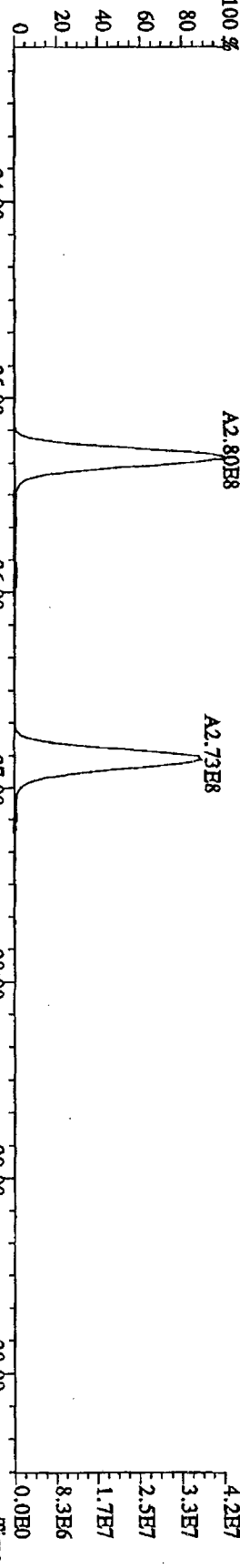


File: 21JUL10A4D5 #1-469 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage 51R Autospec-UltimaE
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES

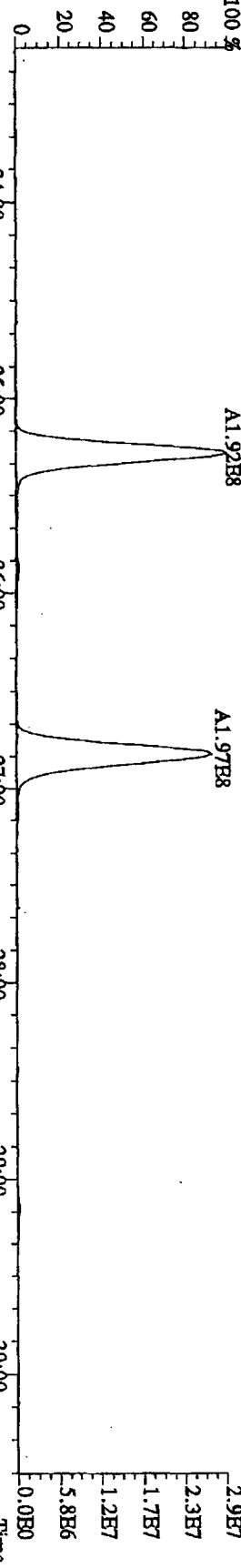
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6412.0,1.00%,F,T)
 100%



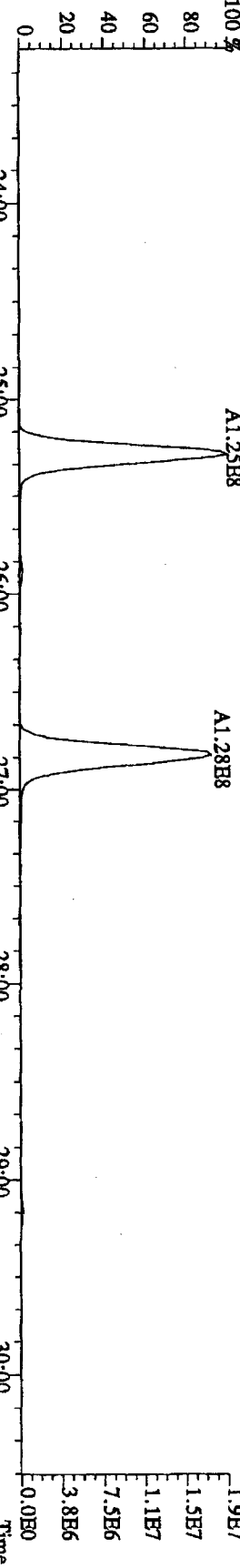
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9640.0,1.00%,F,T)
 100%



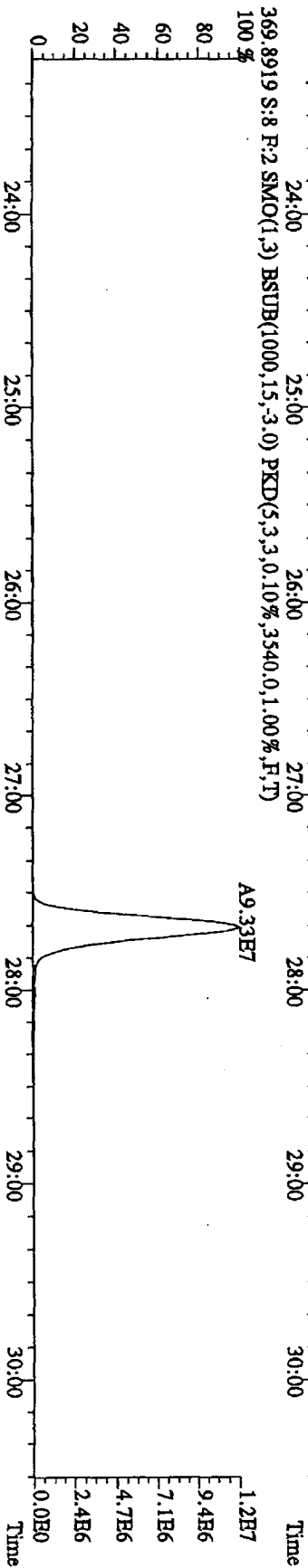
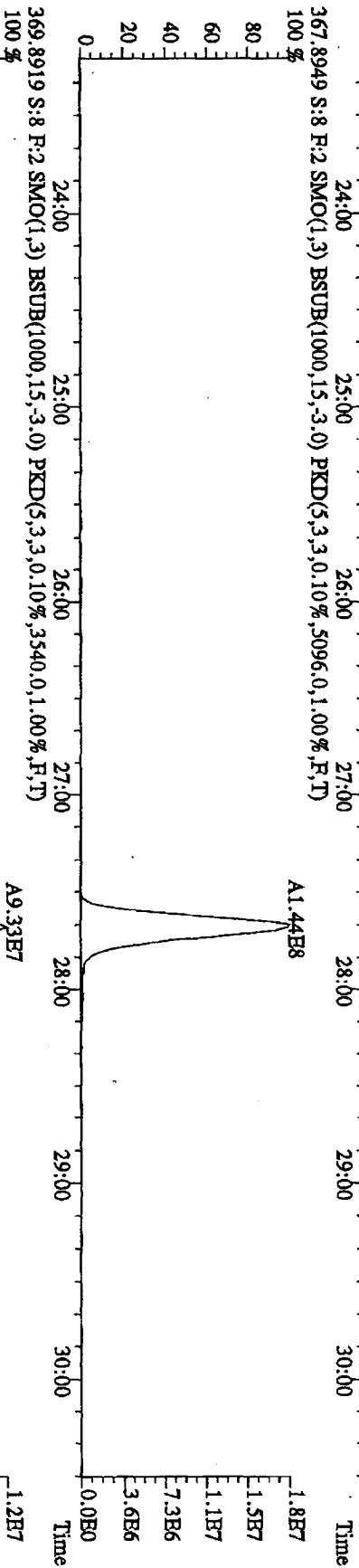
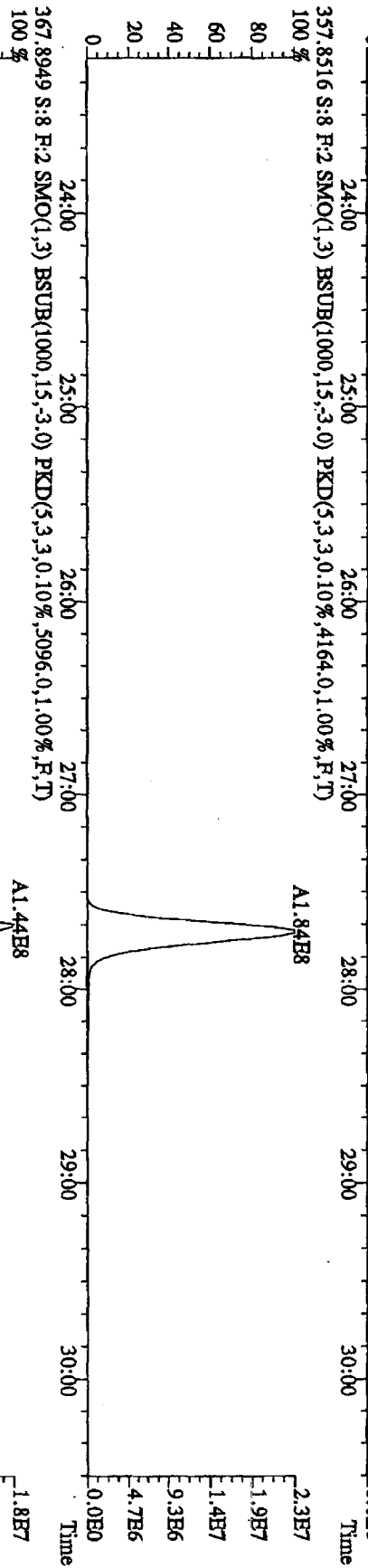
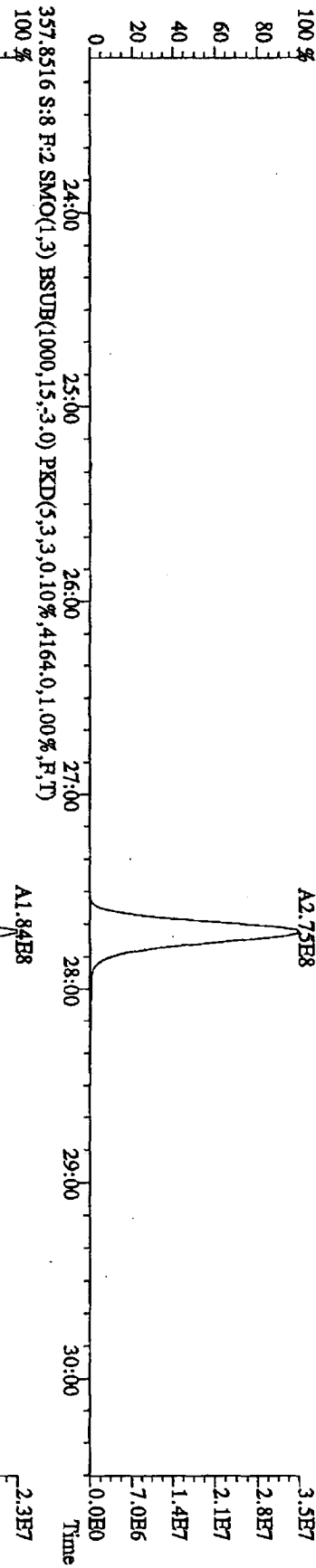
351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7520.0,1.00%,F,T)
 100%



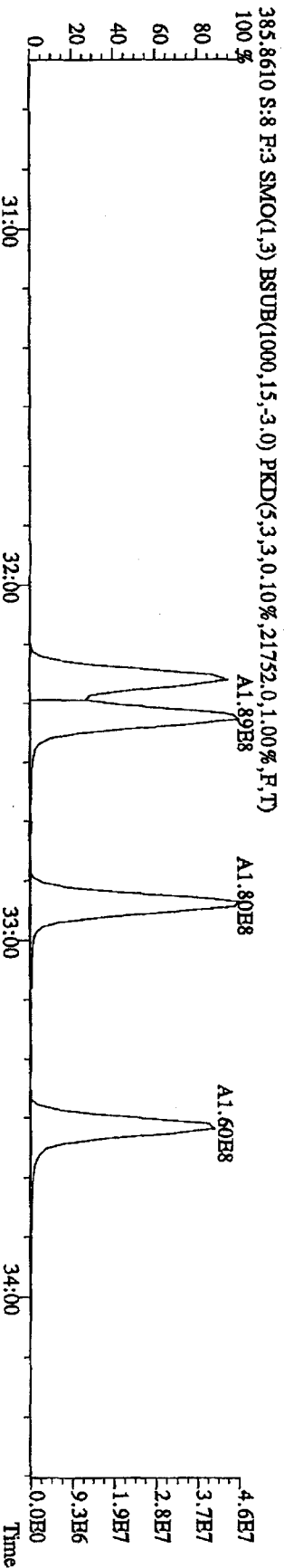
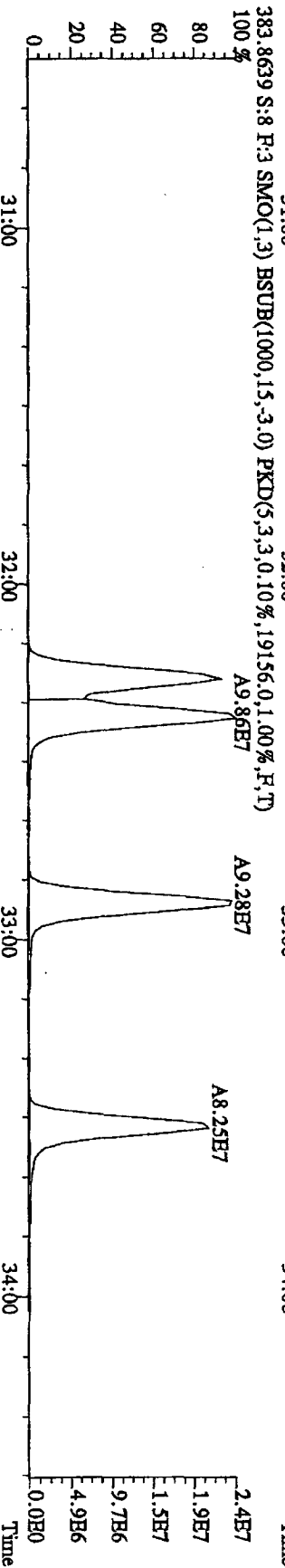
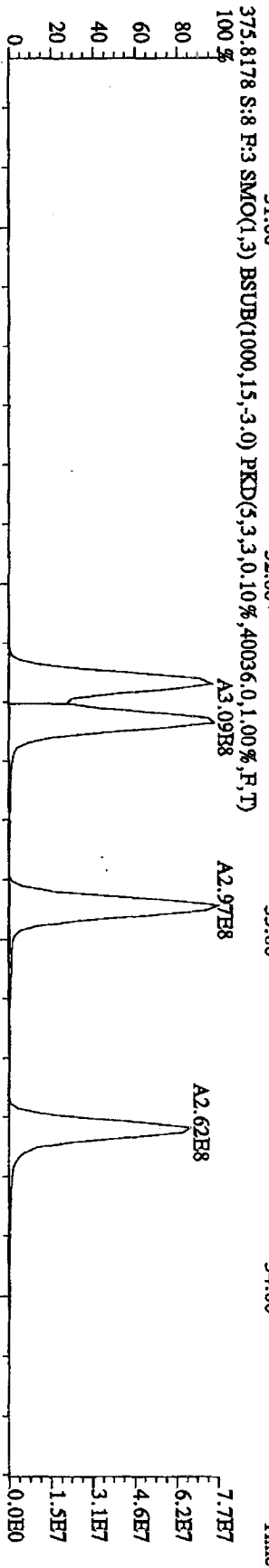
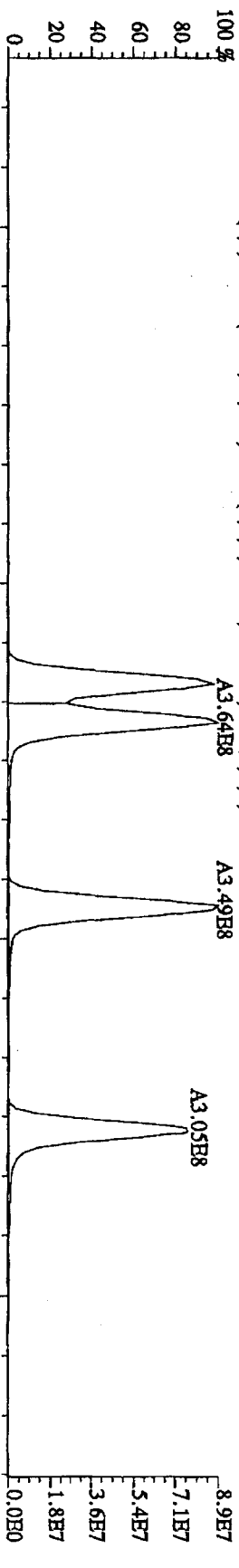
353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7740.0,1.00%,F,T)
 100%



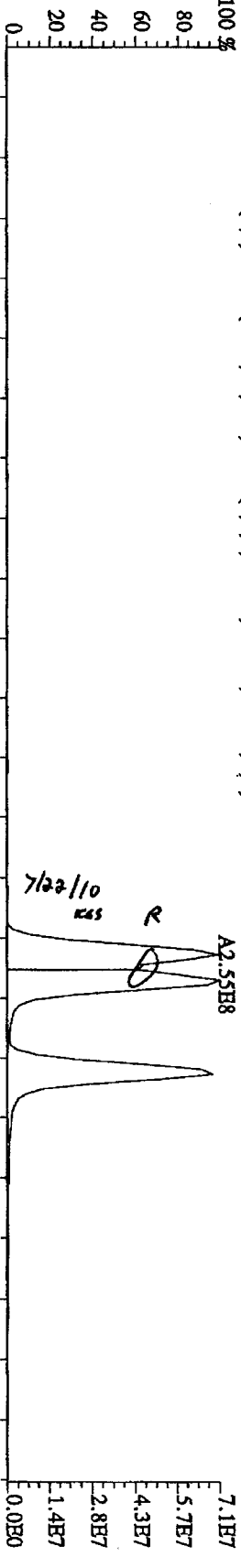
File: 21JUL10A4D5 #1-469 Acq: 21-JUL-2010 19:49:00 GC HI+ Voltage SIR Autospec-UlimarE
 Sample#8 Text: ST0721E :CS 4 10DXN337 Exp: DIOXINRES
 355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6468.0,1.00%,F,T)
 100%



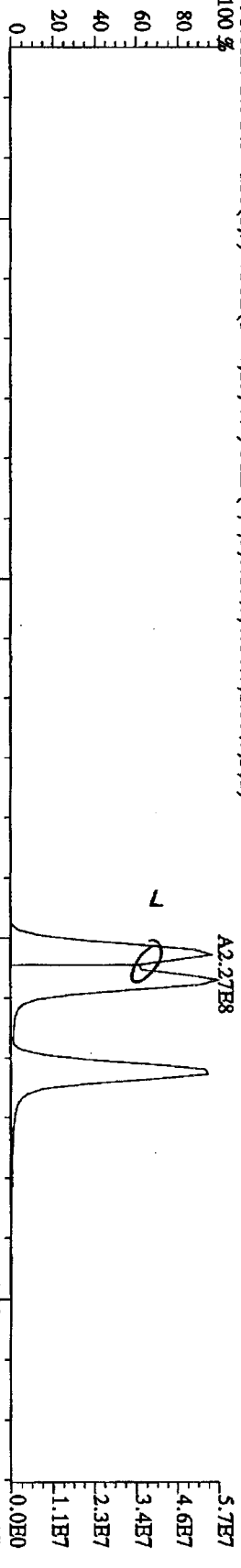
File: 211L10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 Text: ST0721B :CS-4 10DXN337 Exp: DIOXINRES
 373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,55216,0.1,00%,F,T)



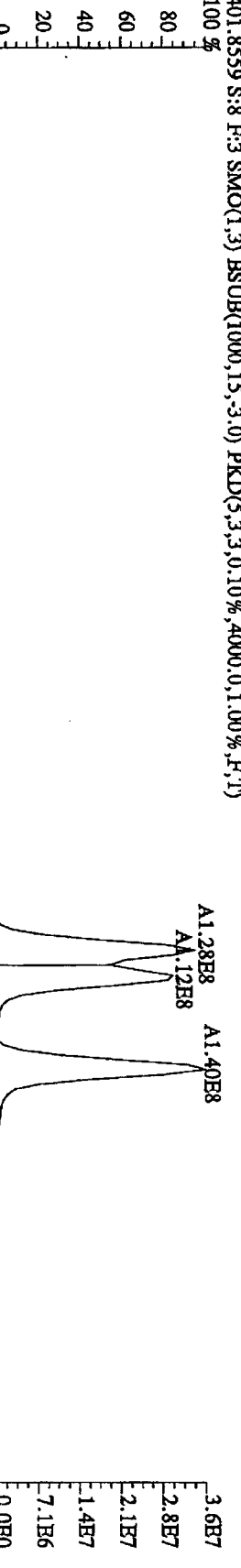
File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-Ulimar
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2644,0,1,00%,F,T)
 100%



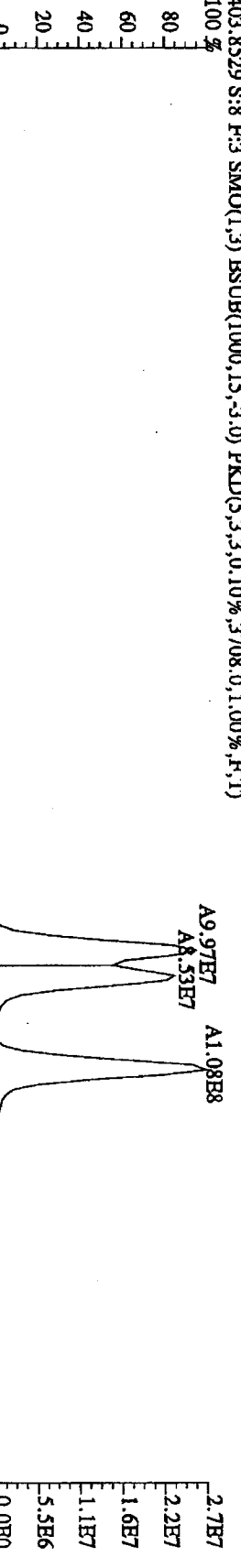
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4736,0,1,00%,F,T)
 100%



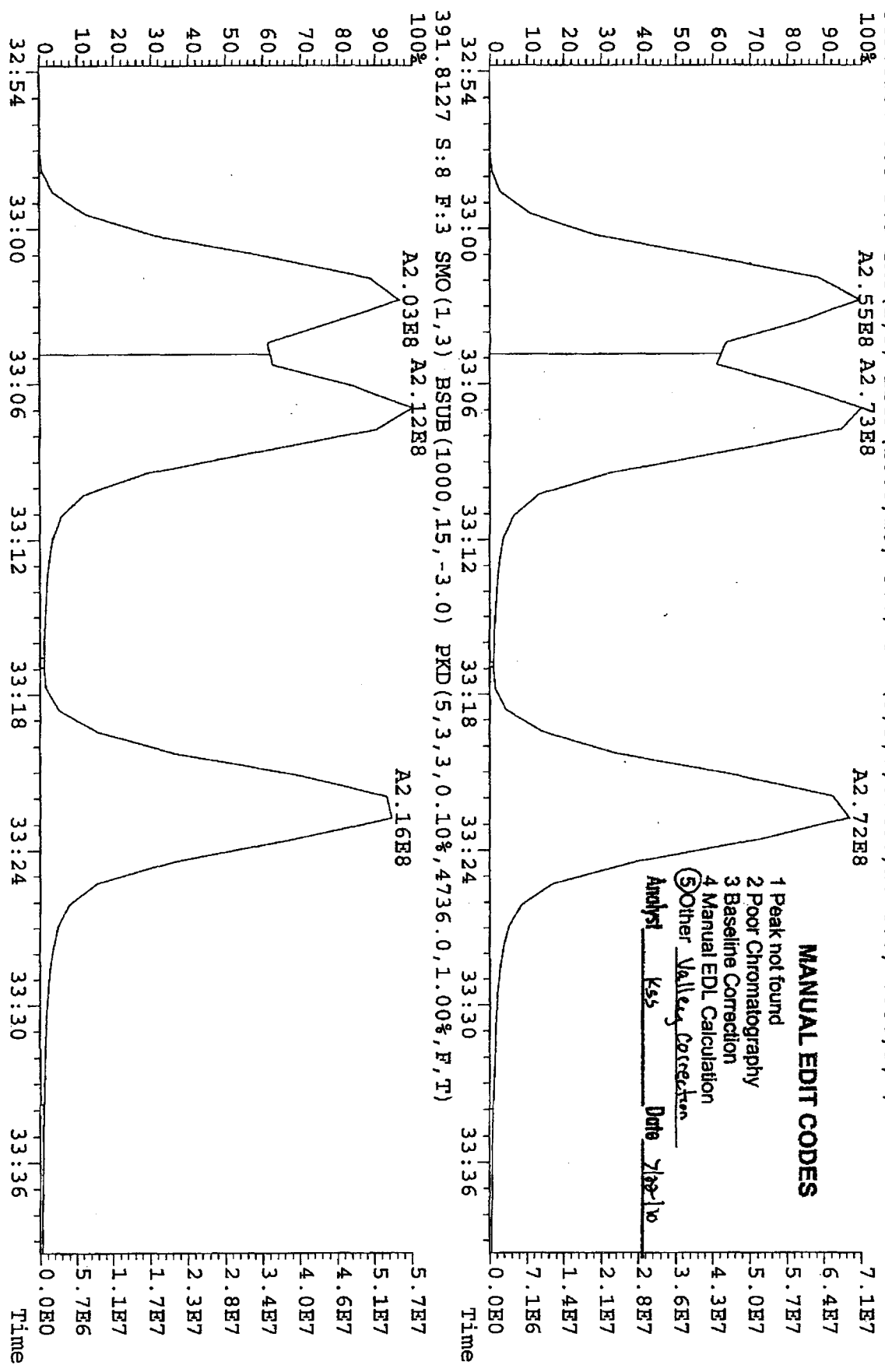
401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4000,0,1,00%,F,T)
 100%



403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3708,0,1,00%,F,T)
 100%



File: 21JUL10A4D5 #1:287 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#8 Text: ST0721E : CS-4 10DXN337 Exp: DIOXINRES
 389.8157 S: 8 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)
 100%

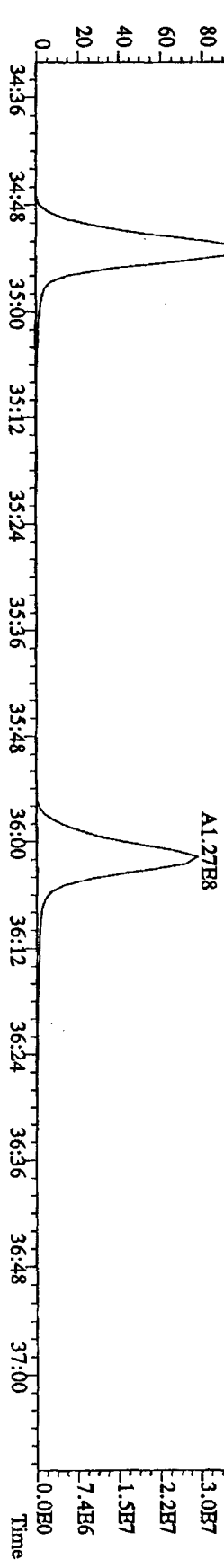
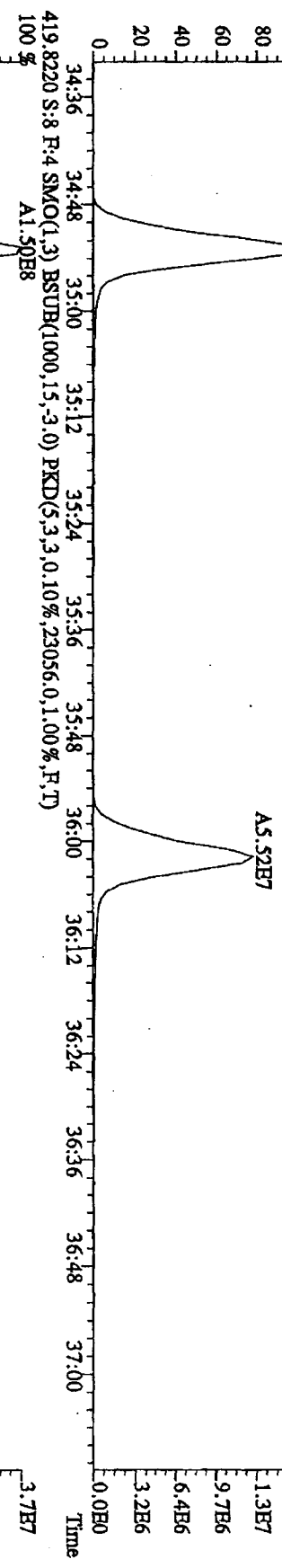
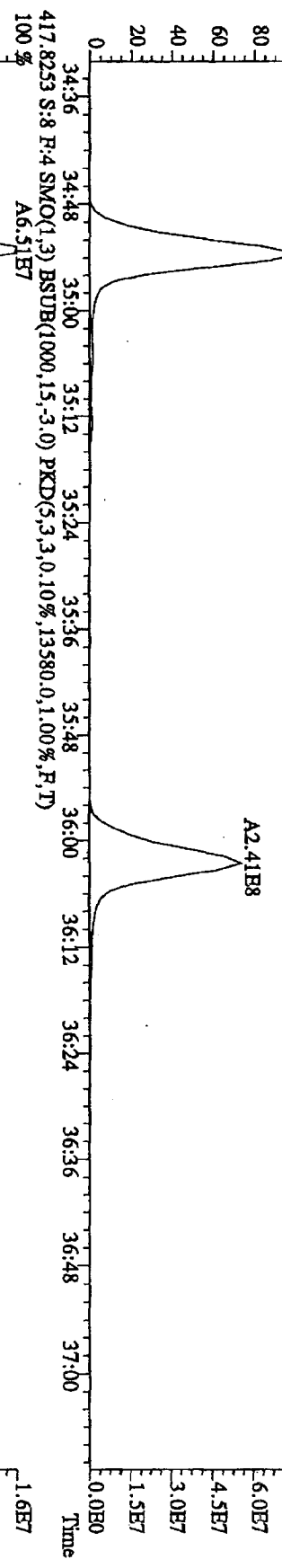
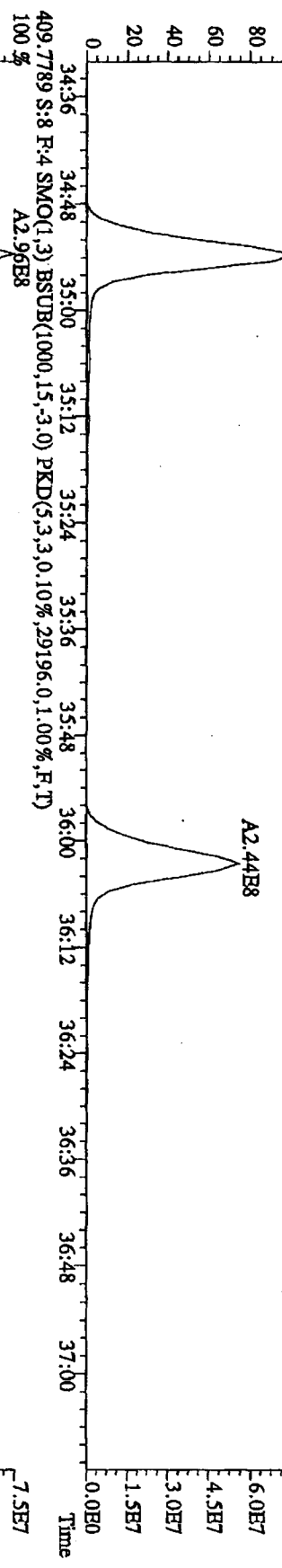


MANUAL EDIT CODES

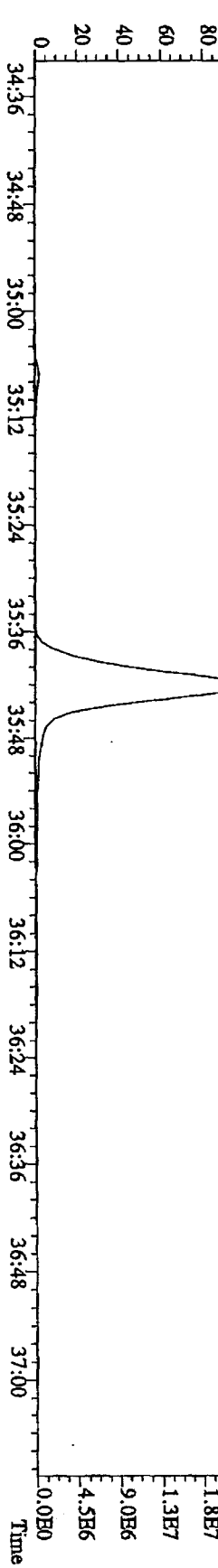
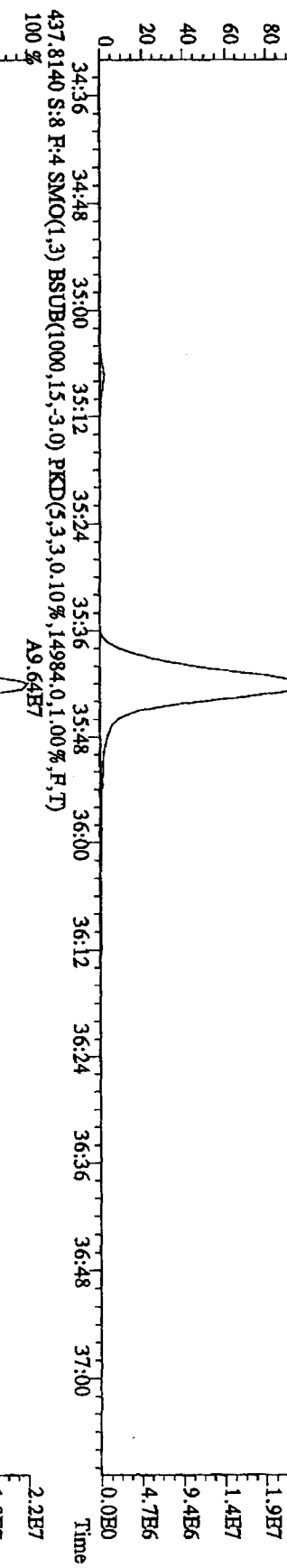
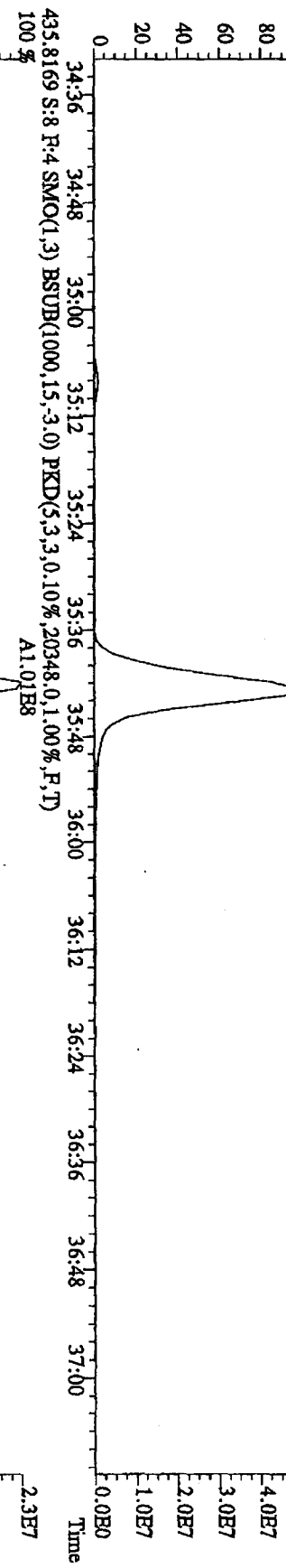
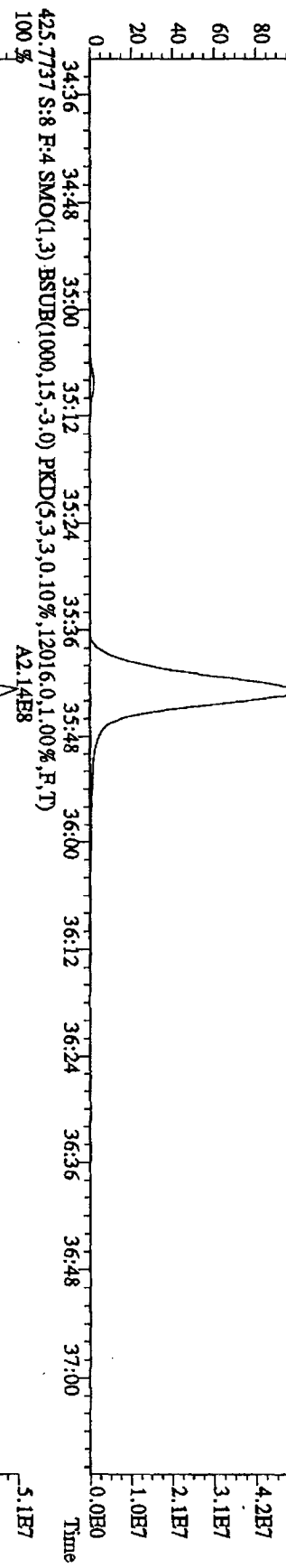
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other Valley Correction

Analyst Kss Date 7/2/10

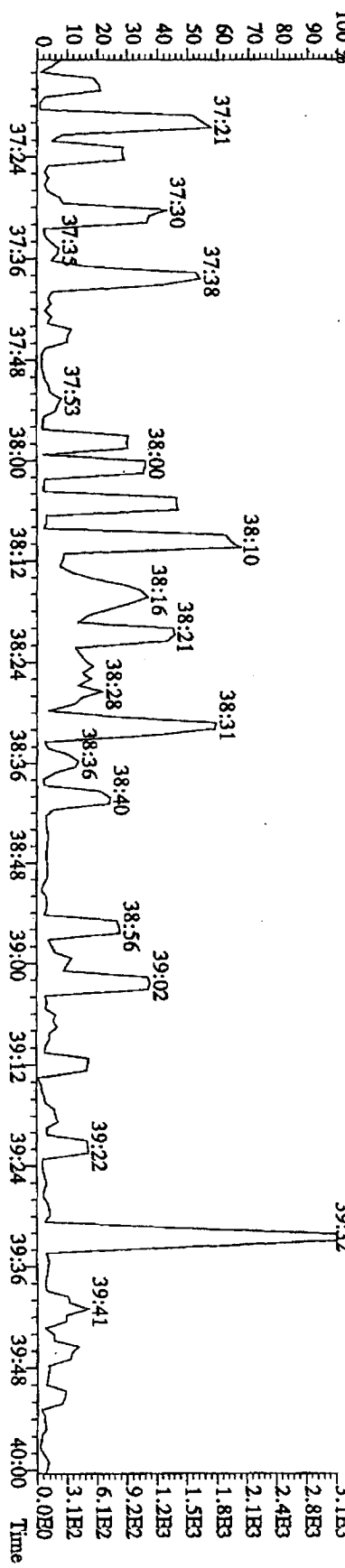
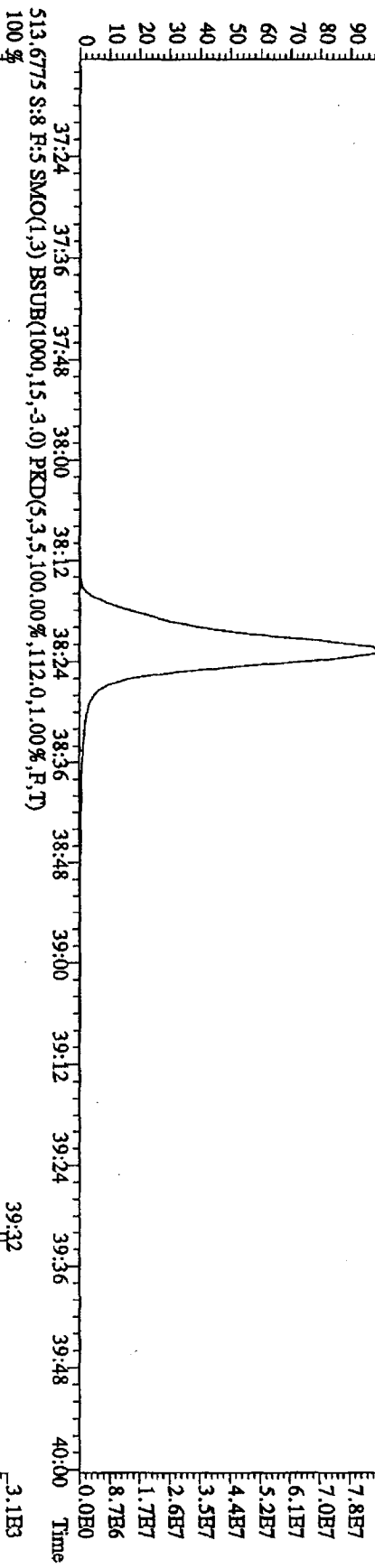
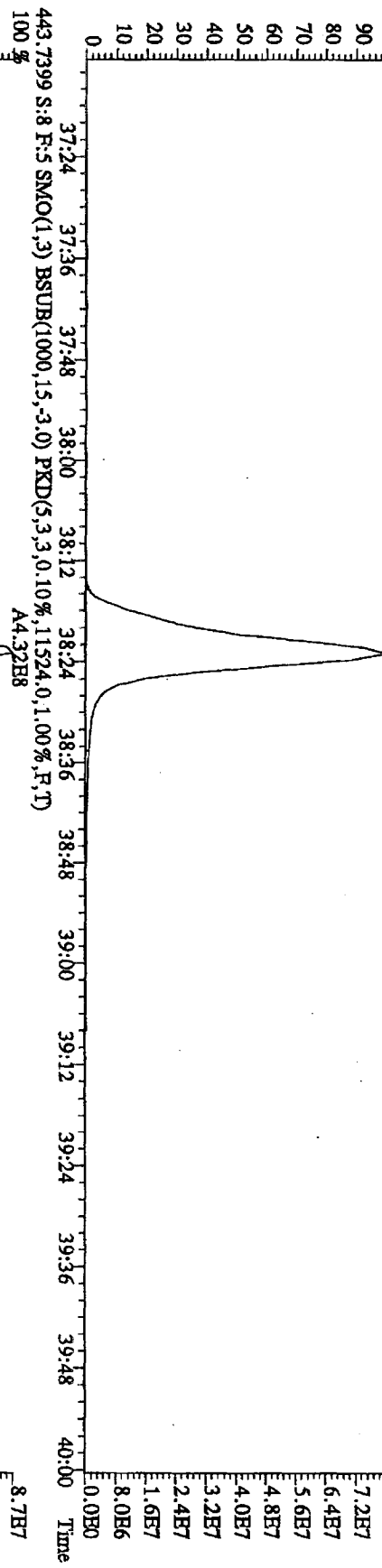
File: 21JUL10A4D5 #1-201 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#8 Text: ST0721B :CS-4 10DXN337 Exp: DIOXINRBS
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,41352,0,1,00%,F,T)
 100%



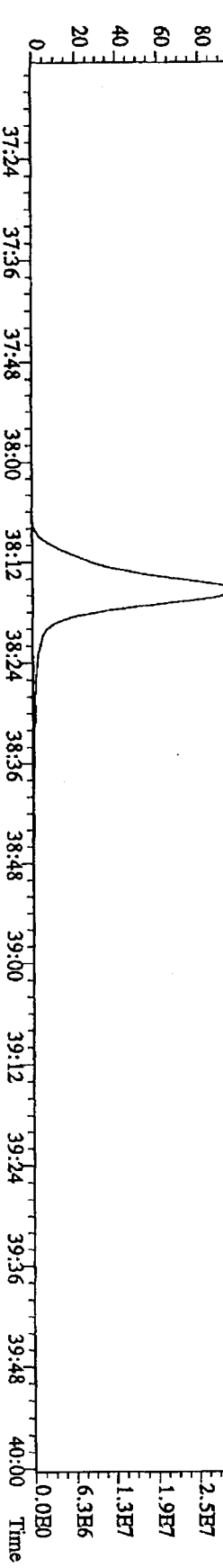
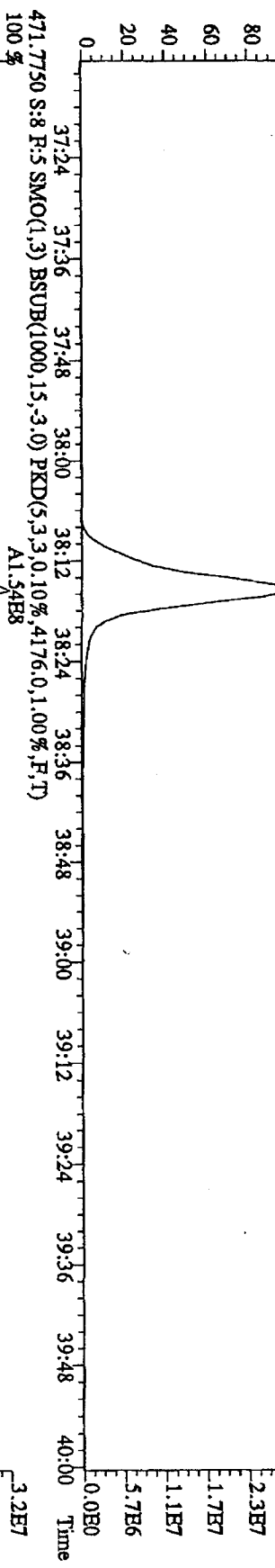
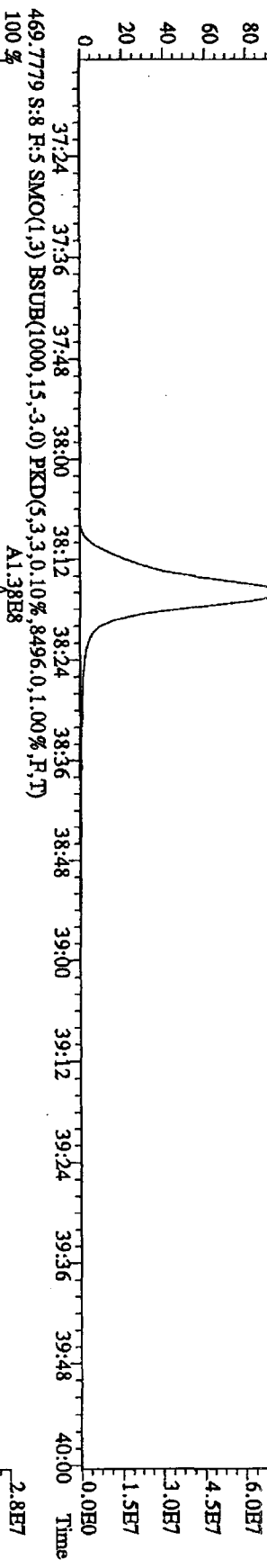
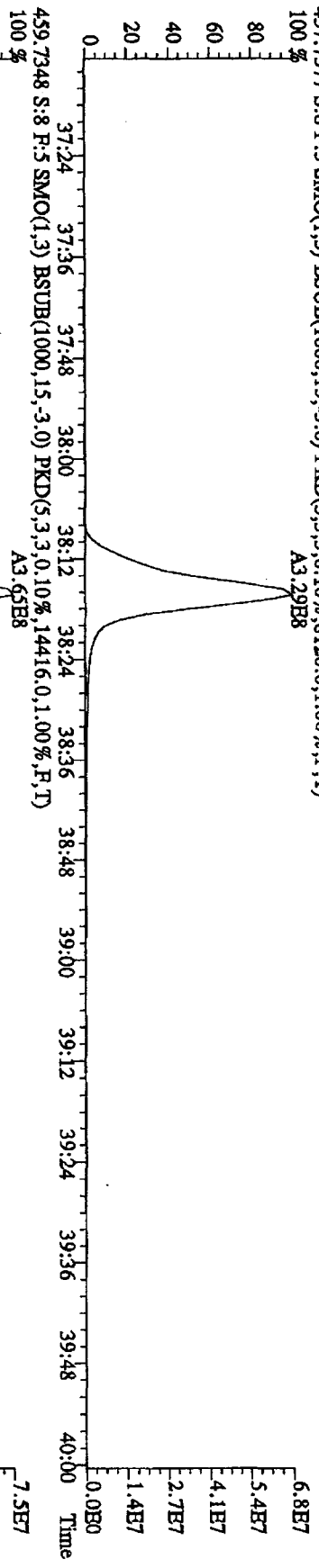
File:21JUL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospcc-UltimaB
 Sample:#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
 423.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1.4020,0.1,00%,F,T)
 100 % A2.21E8



File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#8 Text:ST0721E :CS-4 10DXN37 Exp:DIOXINRES
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12968,0,1,00%,F,T)
 A3.89E8



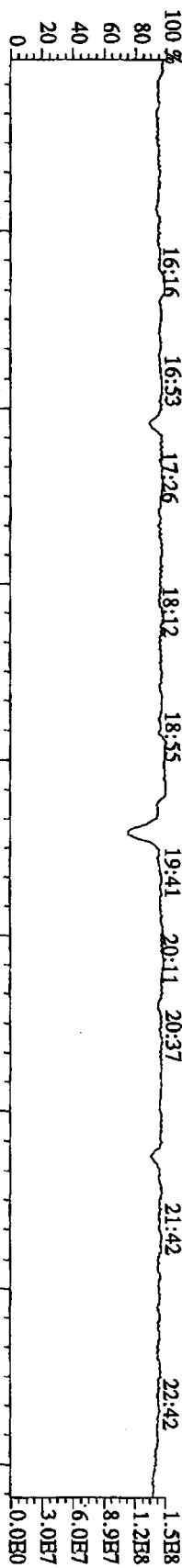
File: 21JL10A4D5 #1-227 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#8 Text: ST0721H :CS-4 10DXN337 Exp: DIOXINRES
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8120,0,1,00%,F,T)
 100% A3.29E8



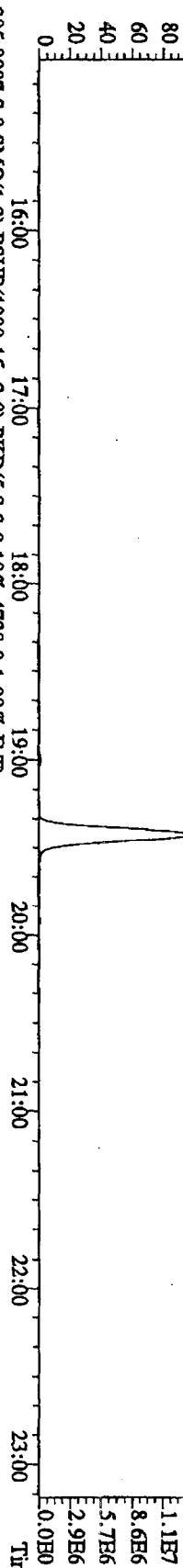
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#8 Text:ST0721H :CS-4 10DXN337 Exp:DIOXINRES

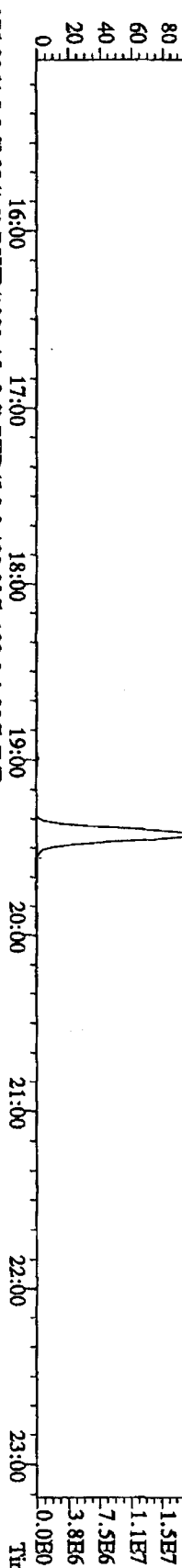
292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



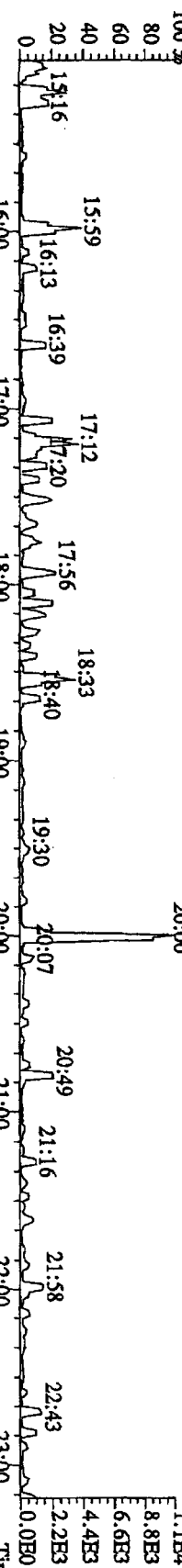
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3860,0.1,0.0%,F,T) A7.22E7



305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4728,0.1,0.0%,F,T) A9.41E7



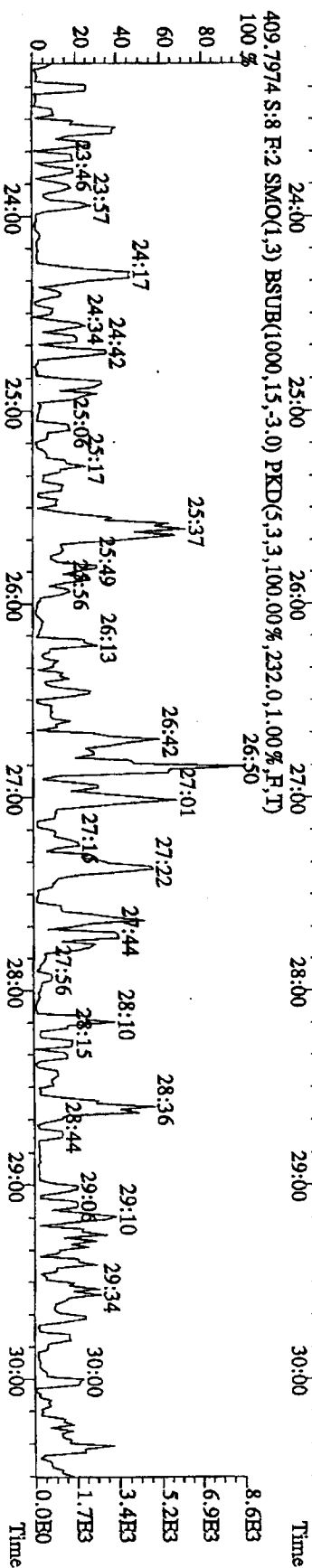
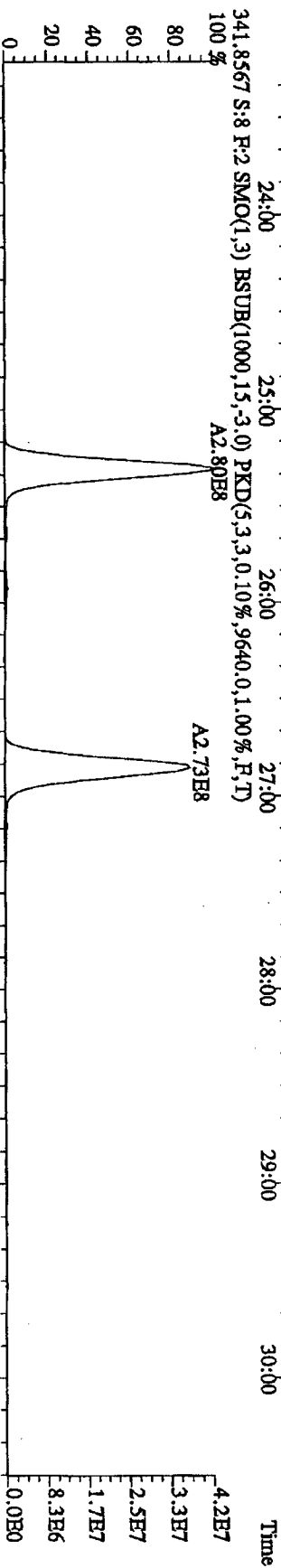
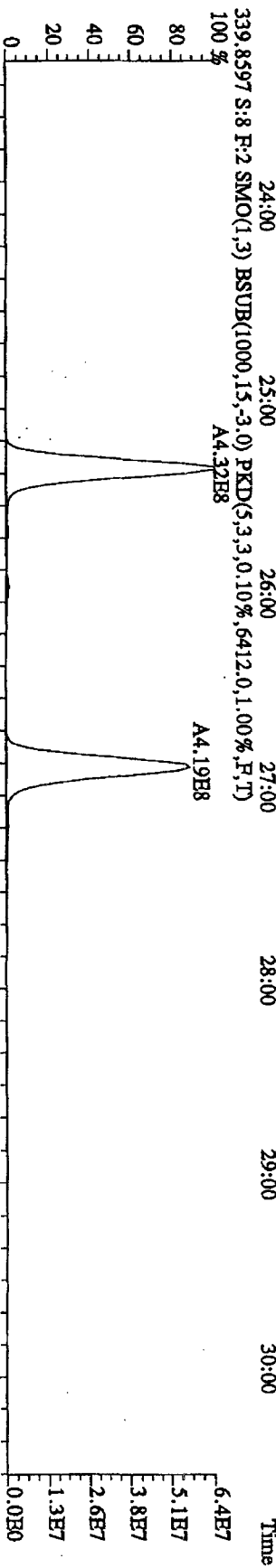
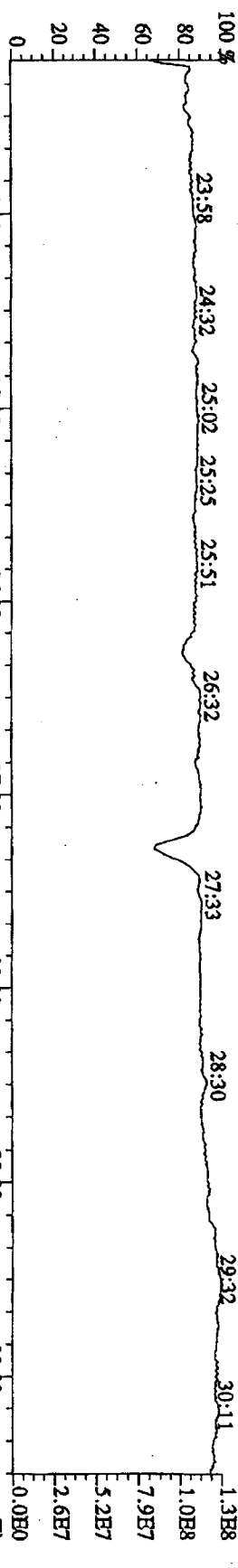
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,188,0.1,0.0%,F,T)



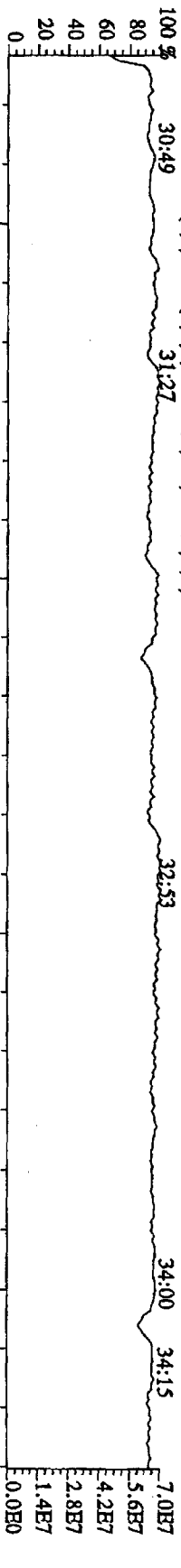
330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



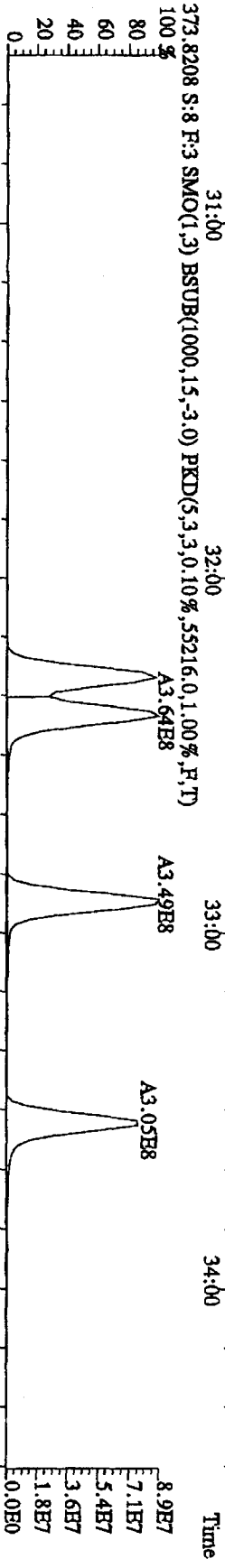
File: 211L10A4D5 #1-469 Acq: 21-JUL-2010 19:49:00 GC RI+ Voltage SIR Autospec-UltimaE
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES
 342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



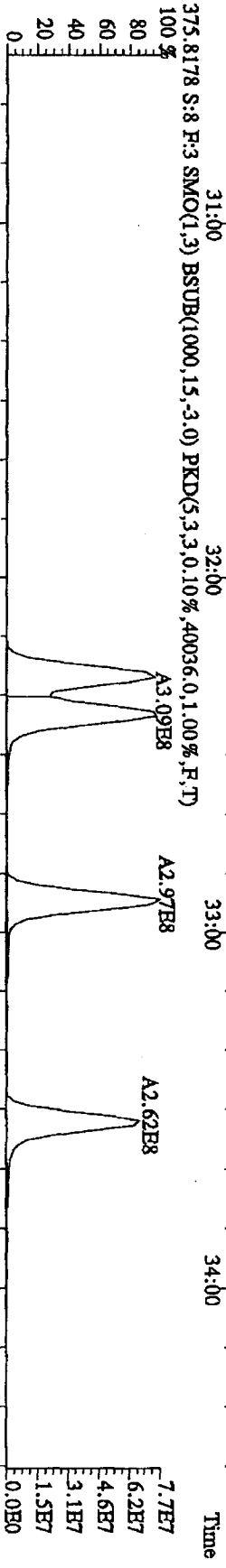
File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC FI + Voltage STR Autospec-Ultimate
 Sample #8 Text: ST0721B :CS-4 10DXN37 Exp: DIOXINRES
 392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)
 30:49 31:27 32:53



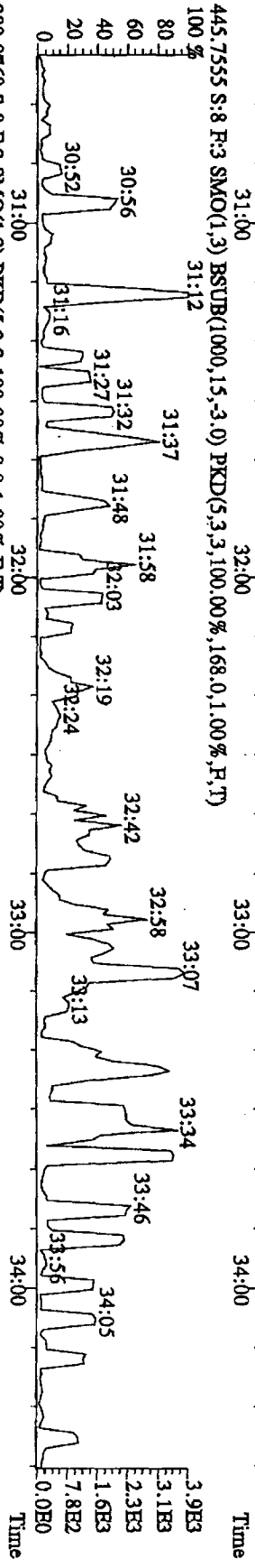
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,55216,0,1.00%,F,T)



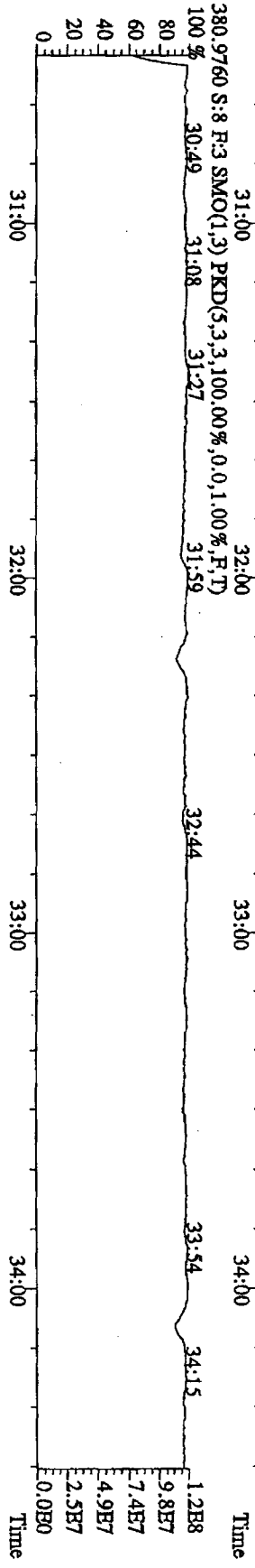
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,40036,0,1.00%,F,T)



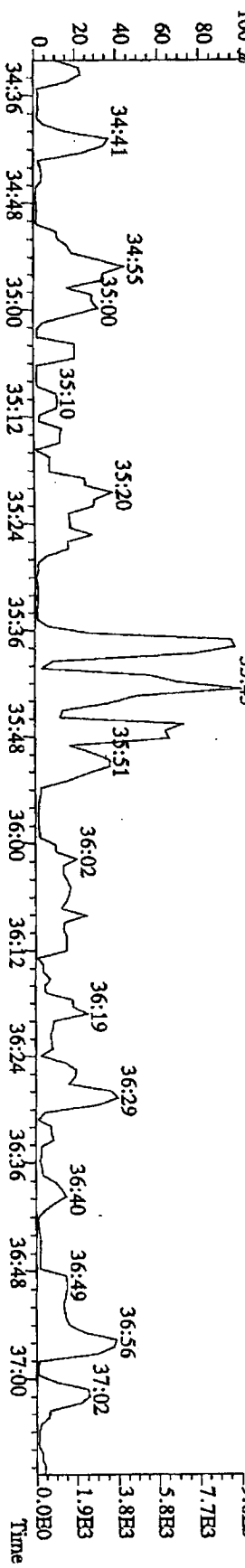
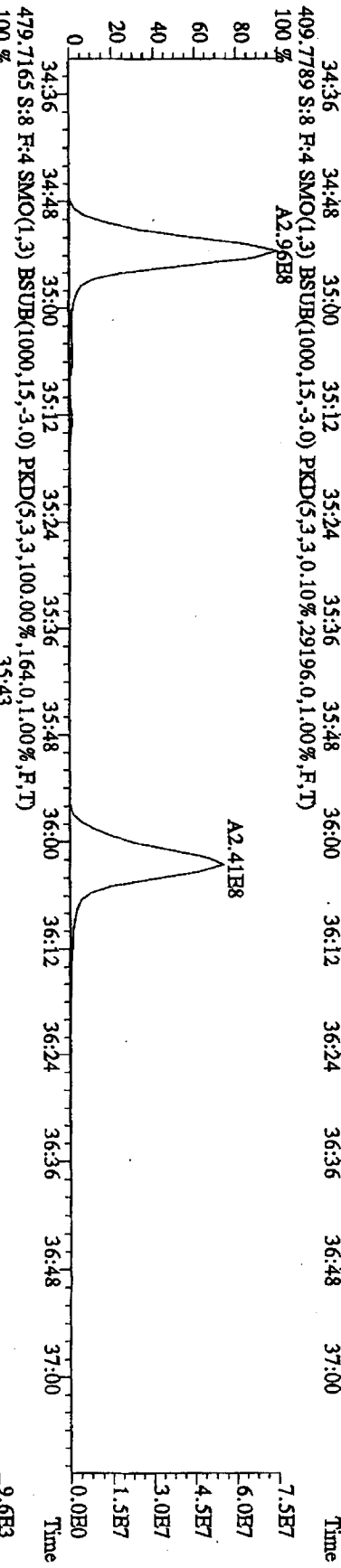
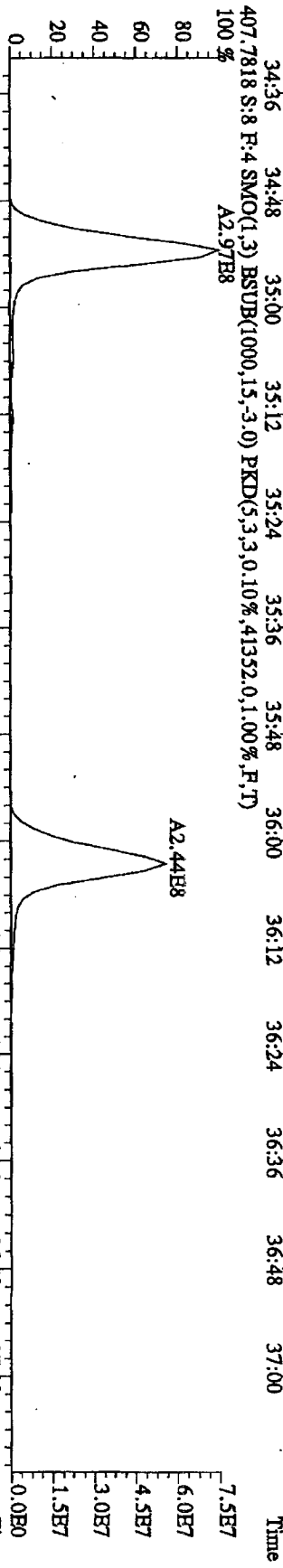
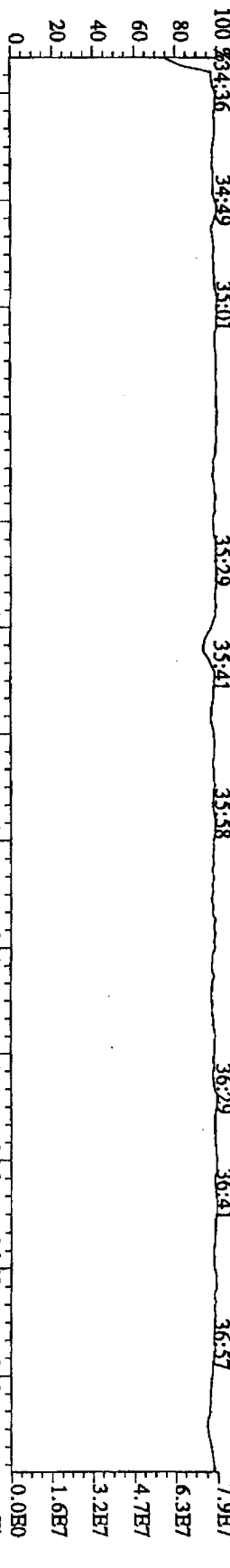
445.7555 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,168,0,1.00%,F,T)



380.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



File: 21JL10A4D5 #1-201 Acq: 21-JUL-2010 19:49:00 GC EI + Voltage SIR Autospec-Ultimate
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXNRES
 430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 34:36 34:49 35:01 35:29 35:41 35:58 36:29 36:41 36:57 7.9E7

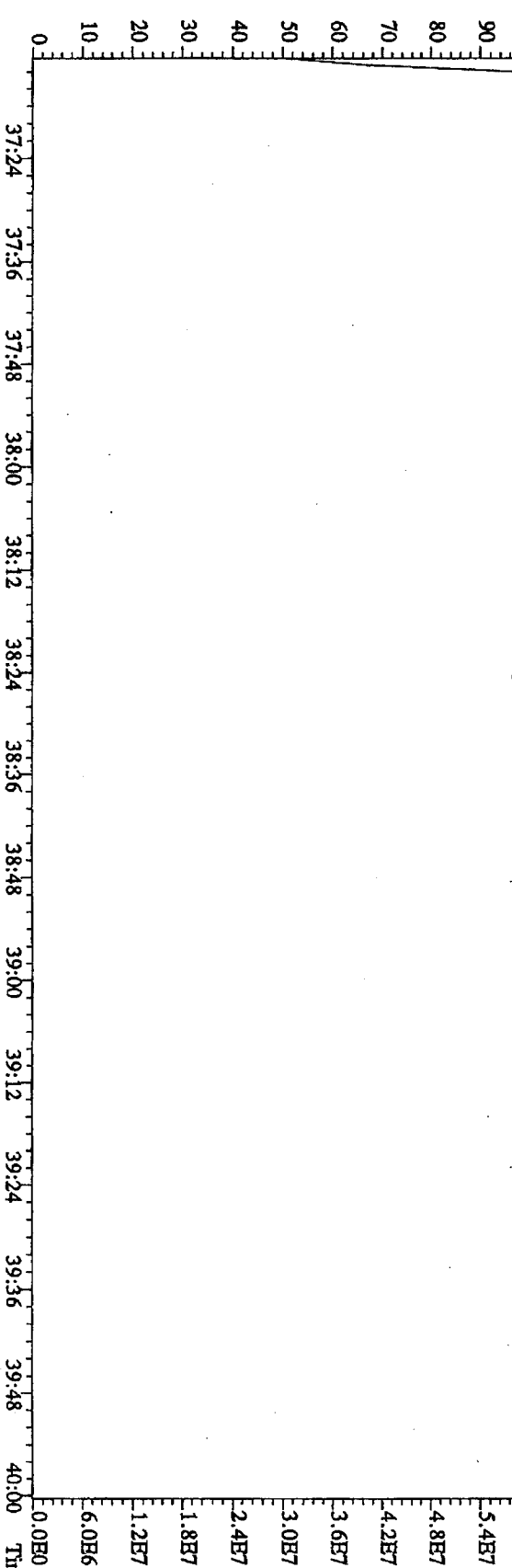
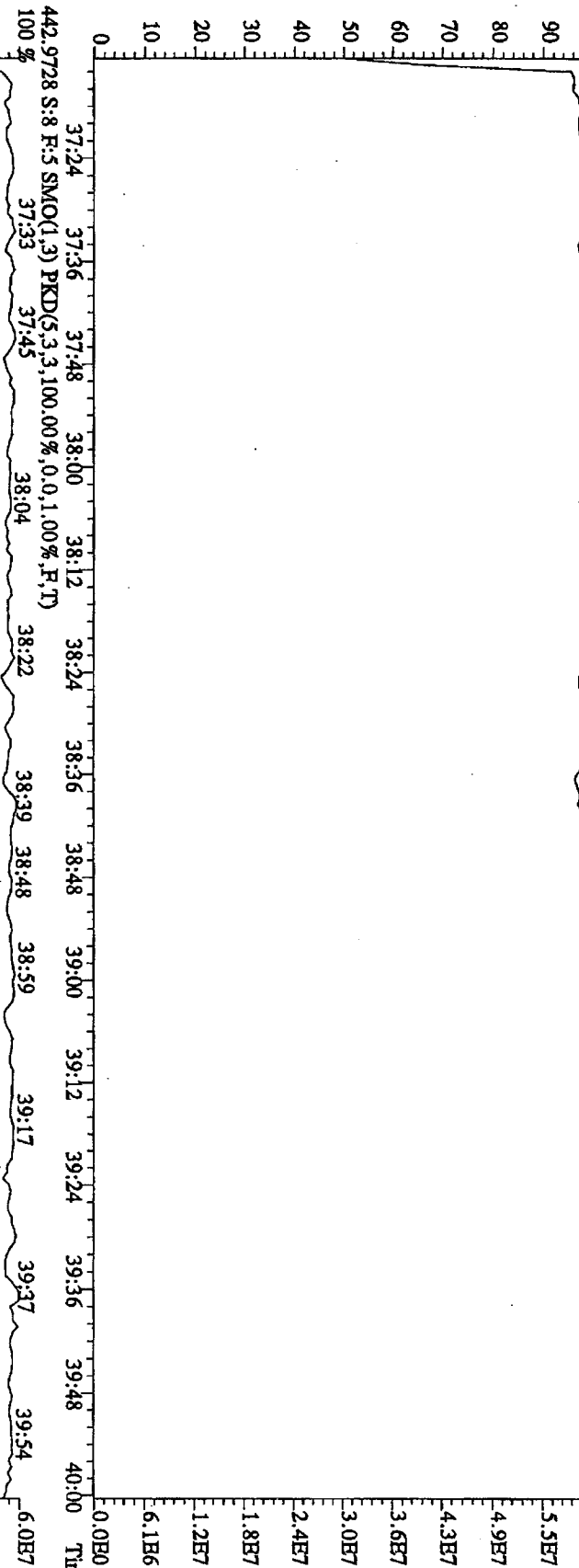


File: 211L10AA4D5 #1-227 Acq: 21-JUL-2010 19:49:00 GC HI + Voltage SIR Autospec-UltimaB

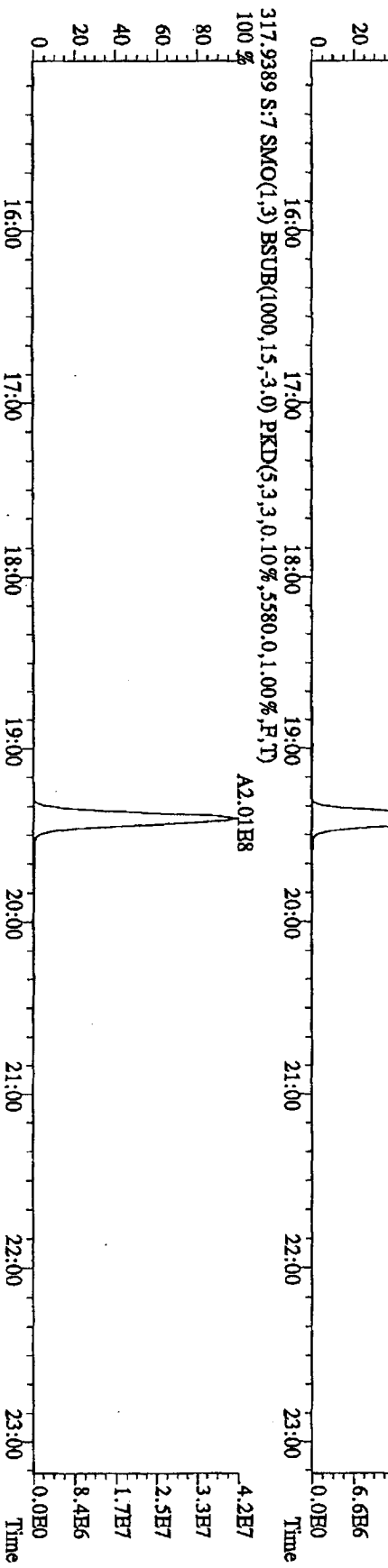
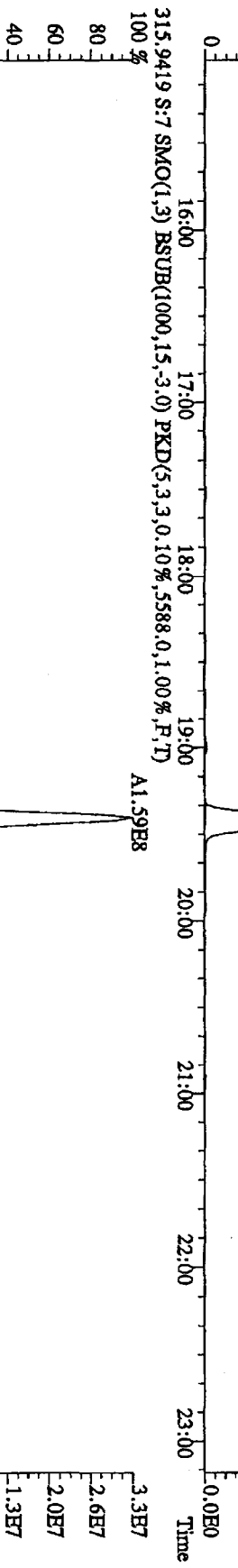
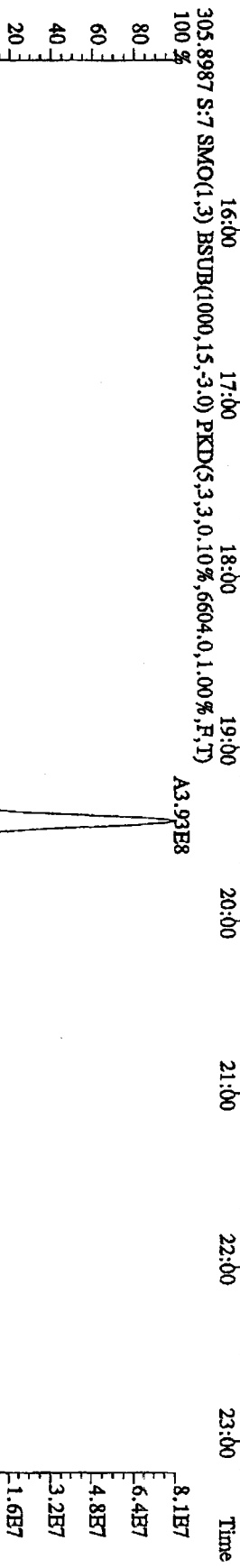
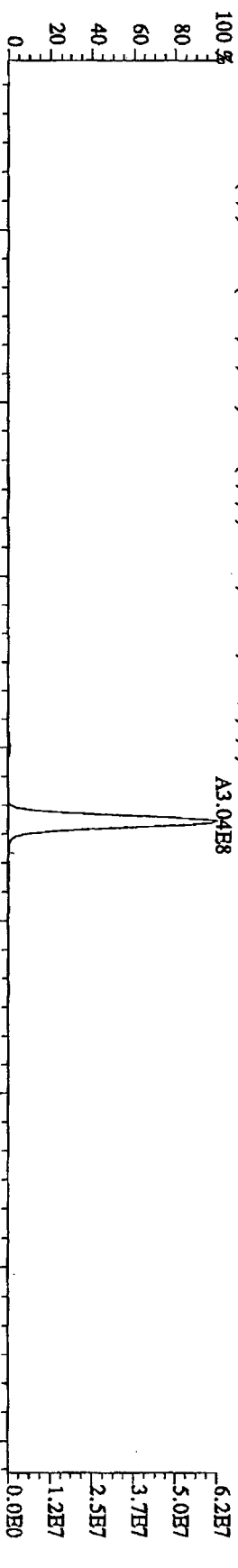
Sample#8 Text: ST0721E :CS-4 10DXN37 Exp: DIOXINRES

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

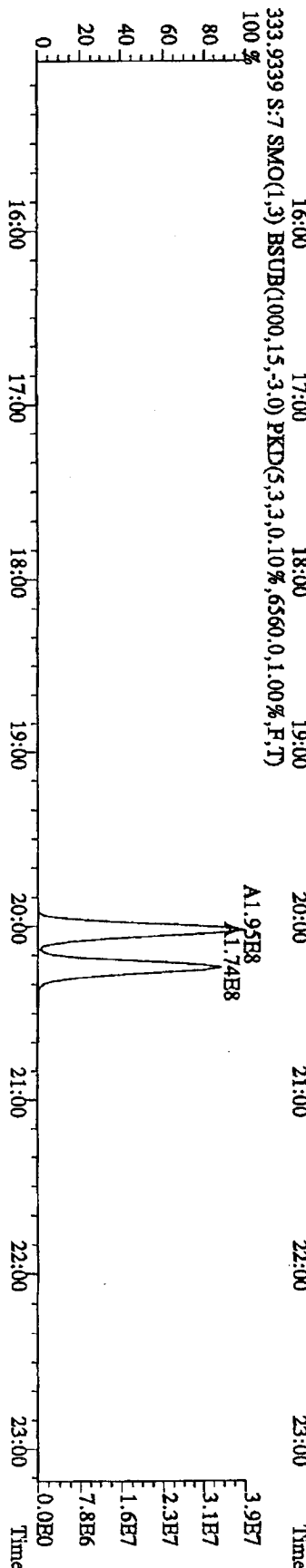
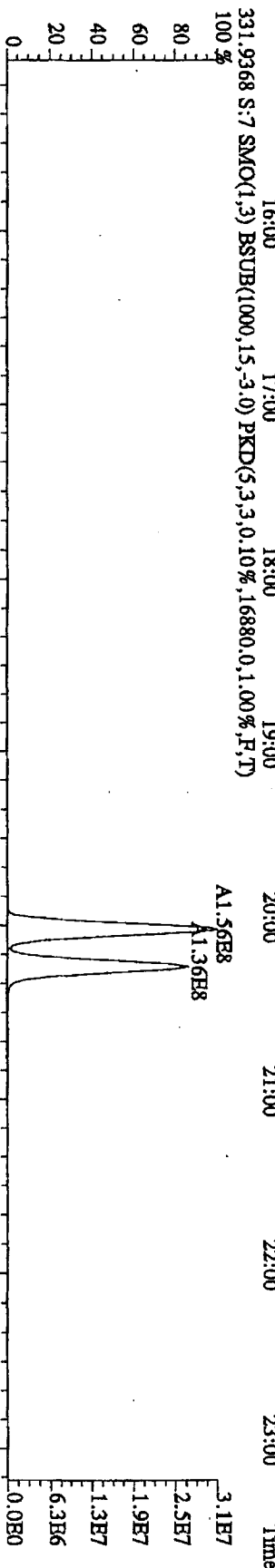
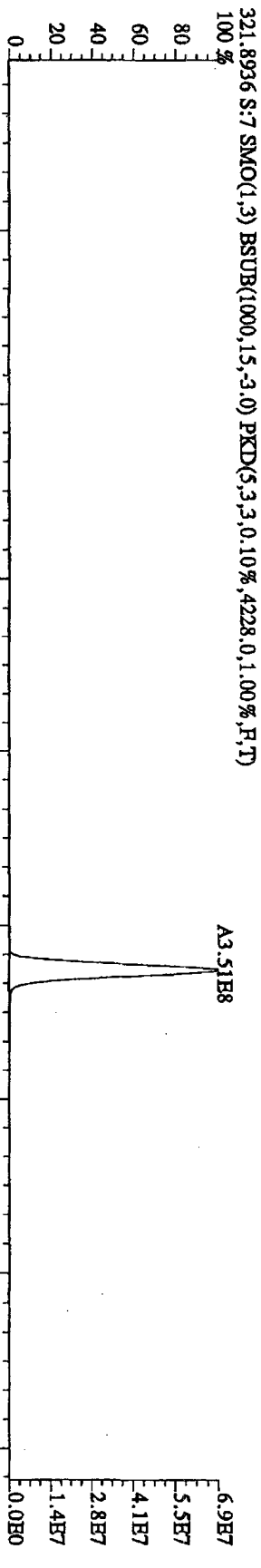
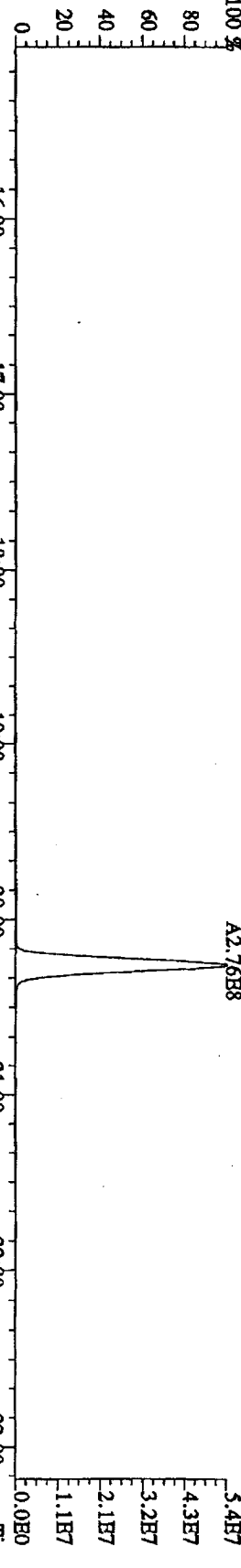
100 % 37:18 37:30 37:38 37:51 38:01 38:22 38:33 38:48 39:00 39:14 39:25 39:37 39:55



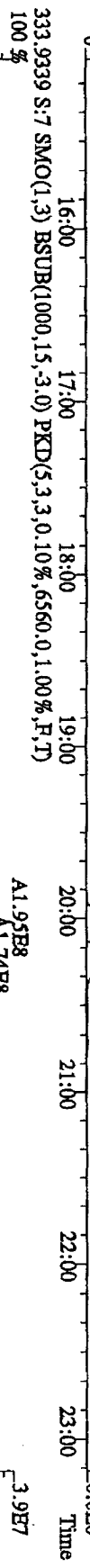
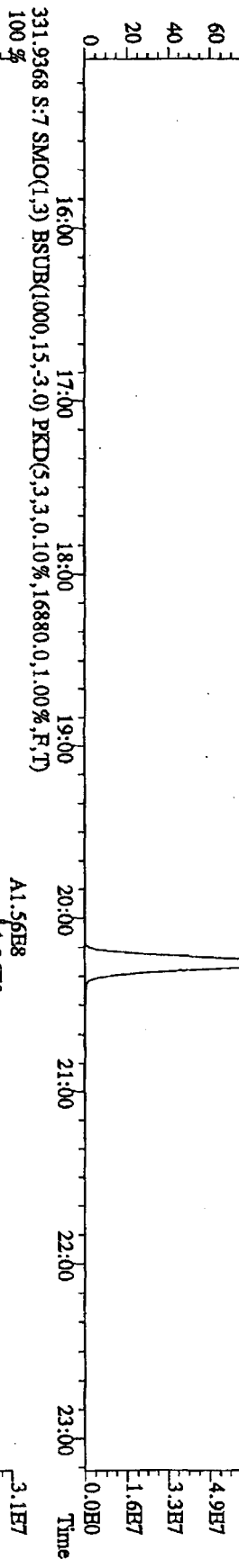
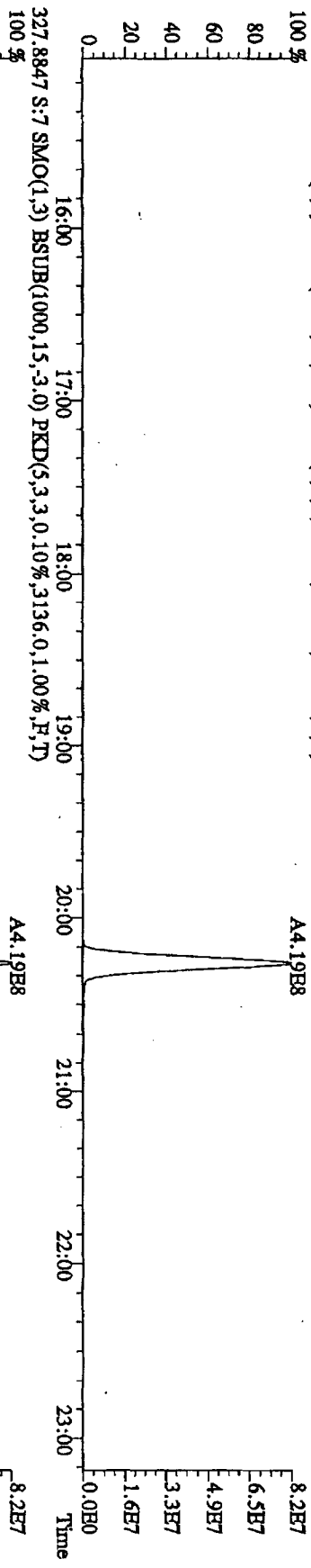
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRBS
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3616,0,1,00%,F,T)
 100%



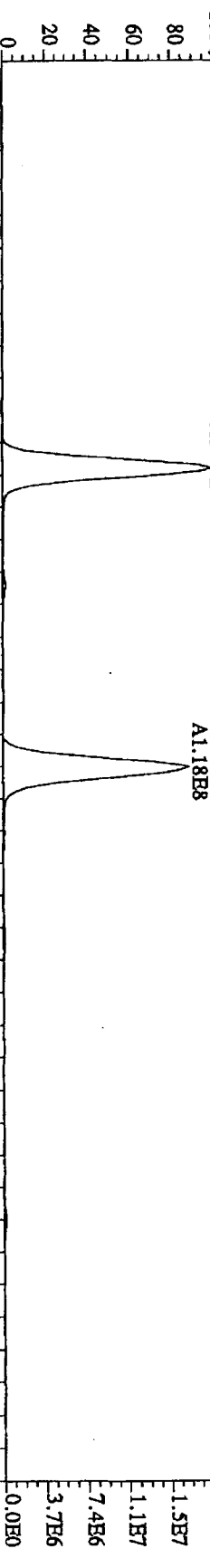
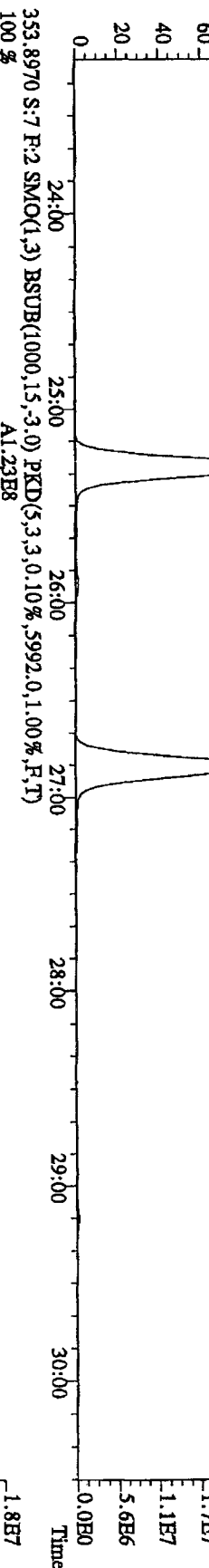
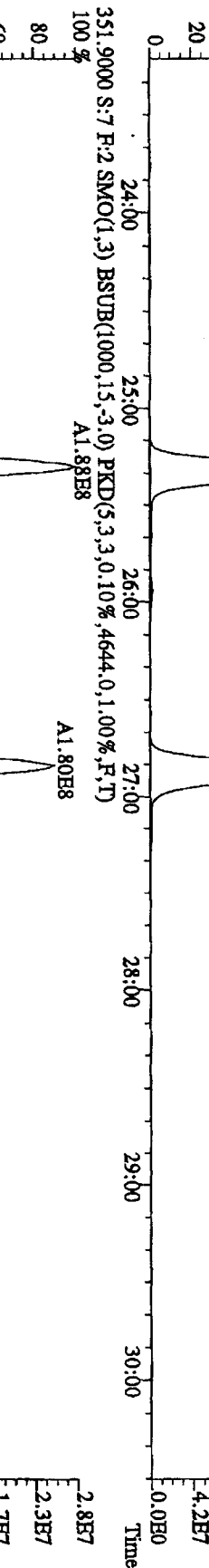
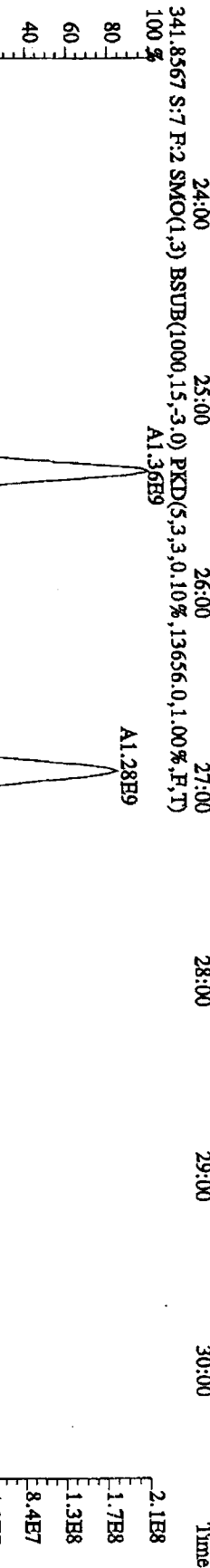
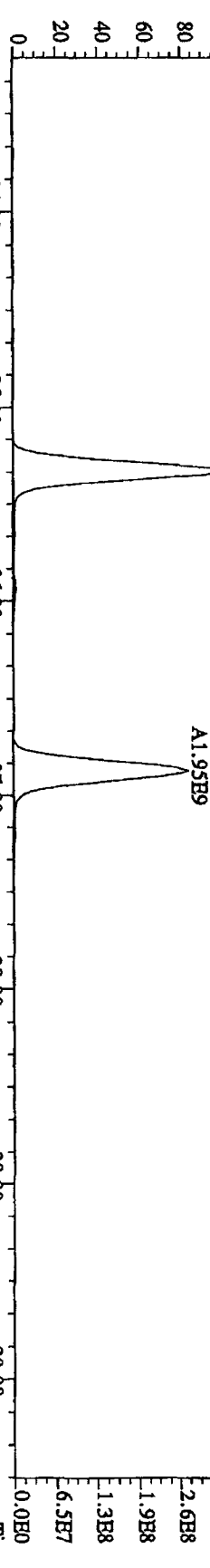
File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4828,0,1,00%,F,T)
 100%



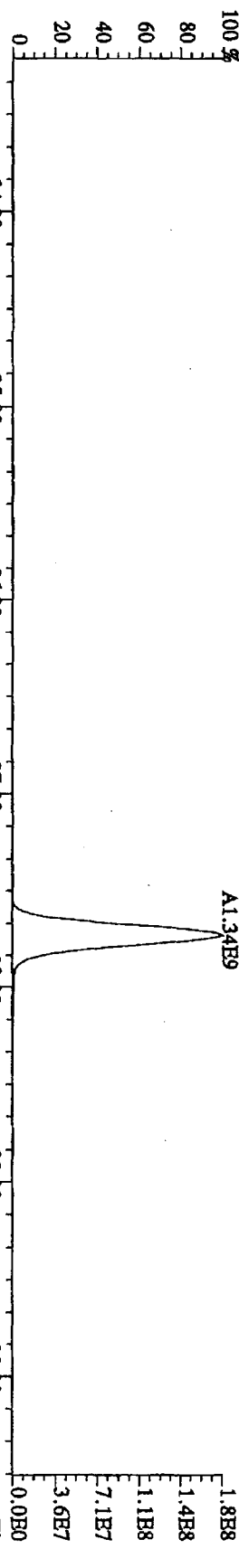
File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T) 100%



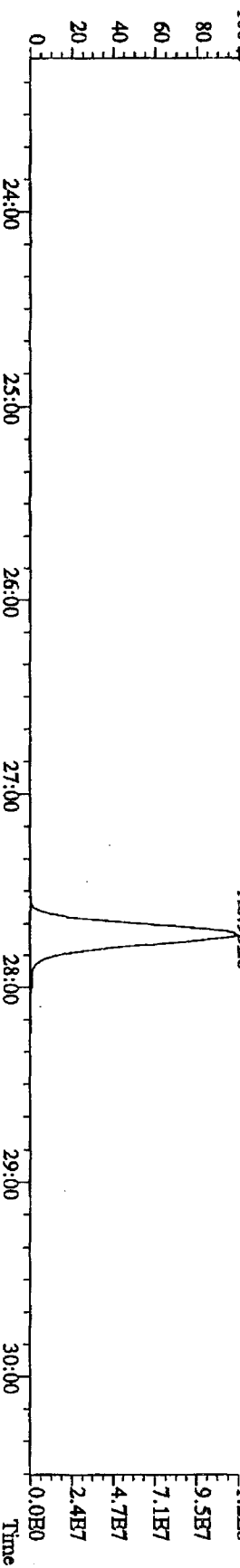
File:21JUL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC HF + Voltage SIR Autospec-UltimaB
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,26980,0,1,00%,F,T)
 100%



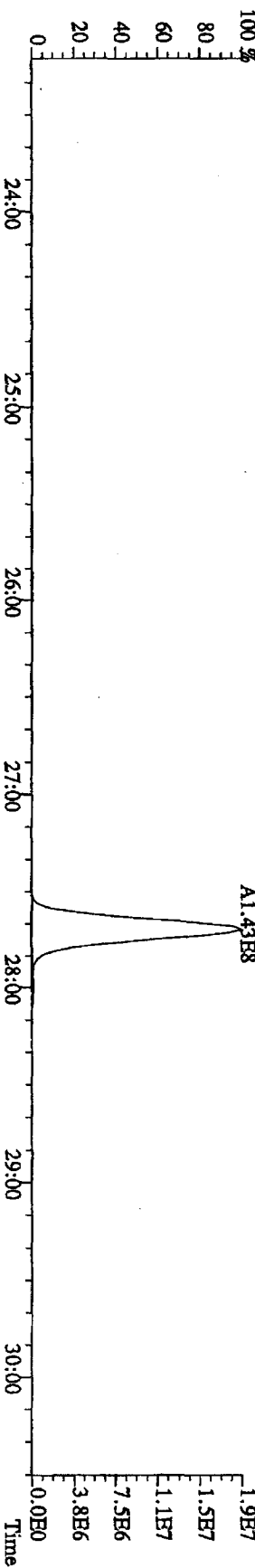
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-Ultimah
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,25872,0,1,00%,F,T)
 100 %



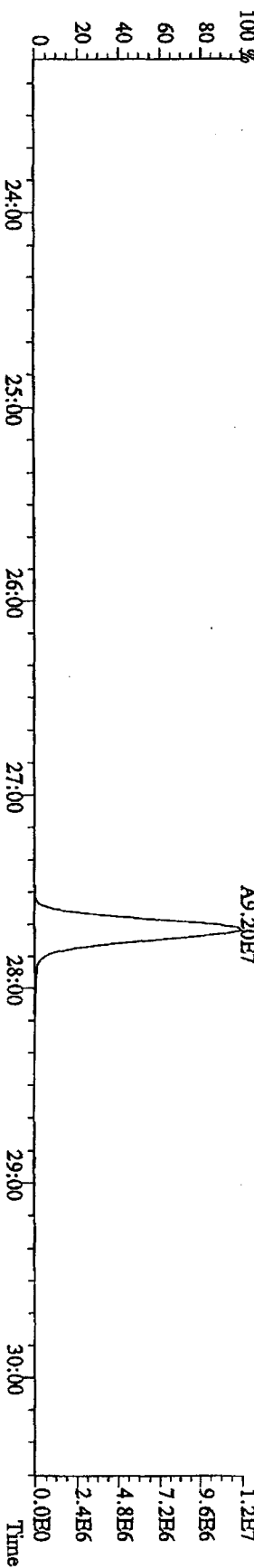
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9792,0,1,00%,F,T)
 100 %



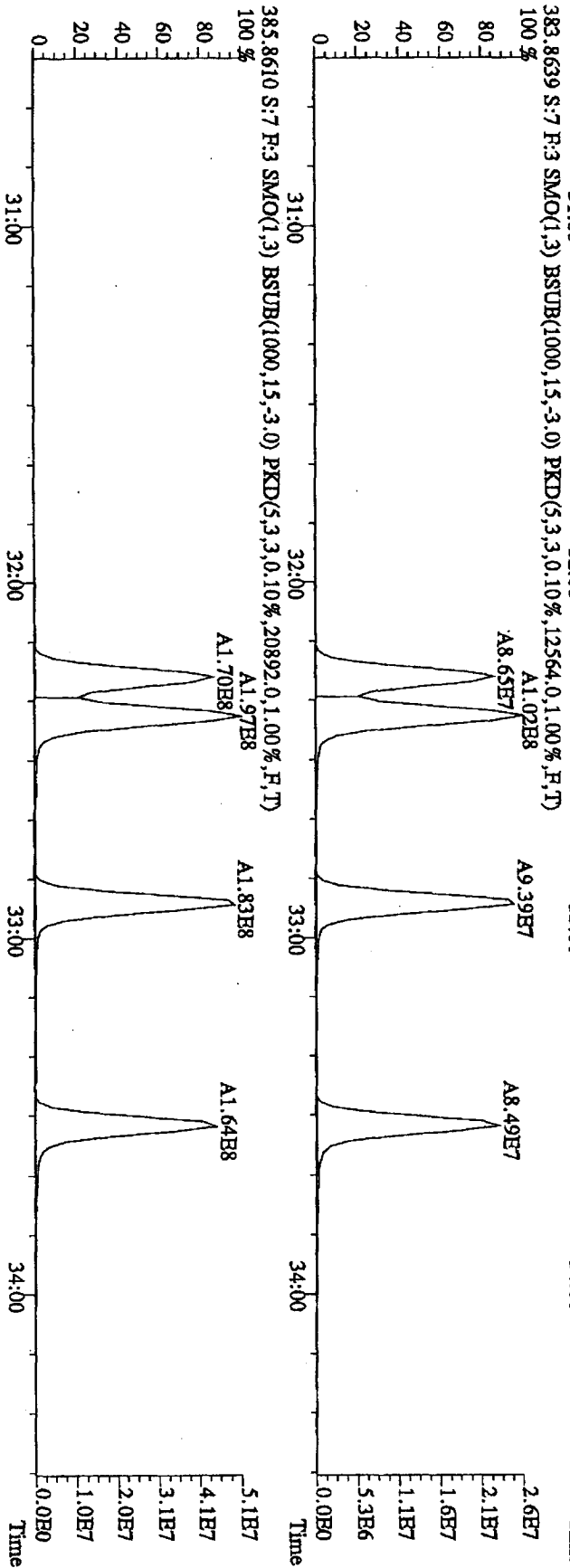
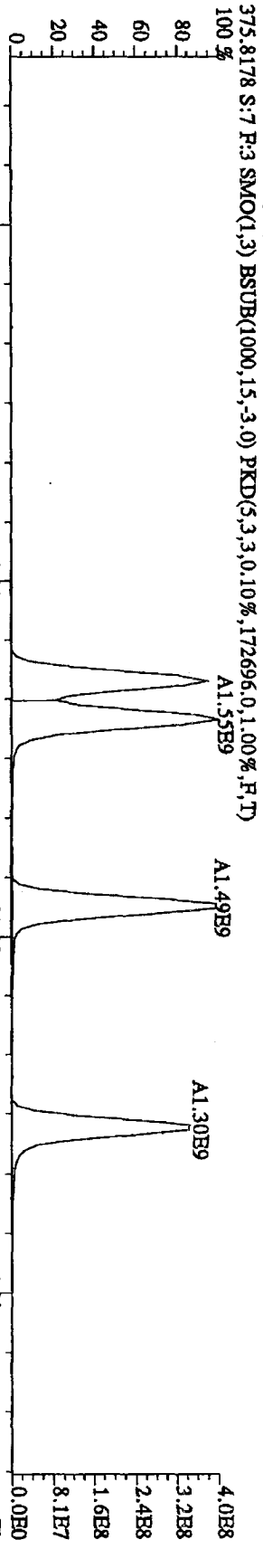
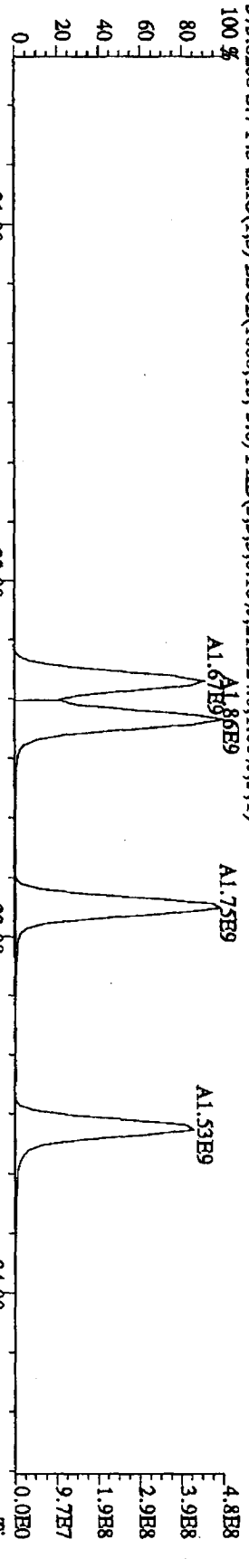
367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4176,0,1,00%,F,T)
 100 %



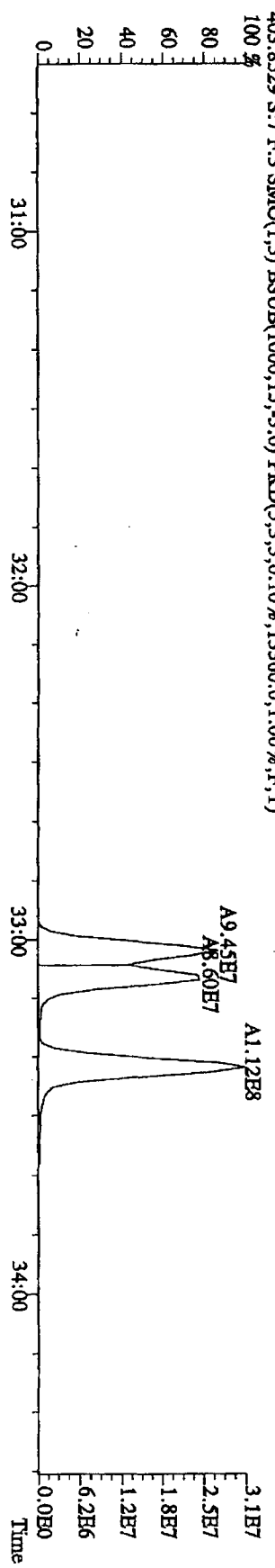
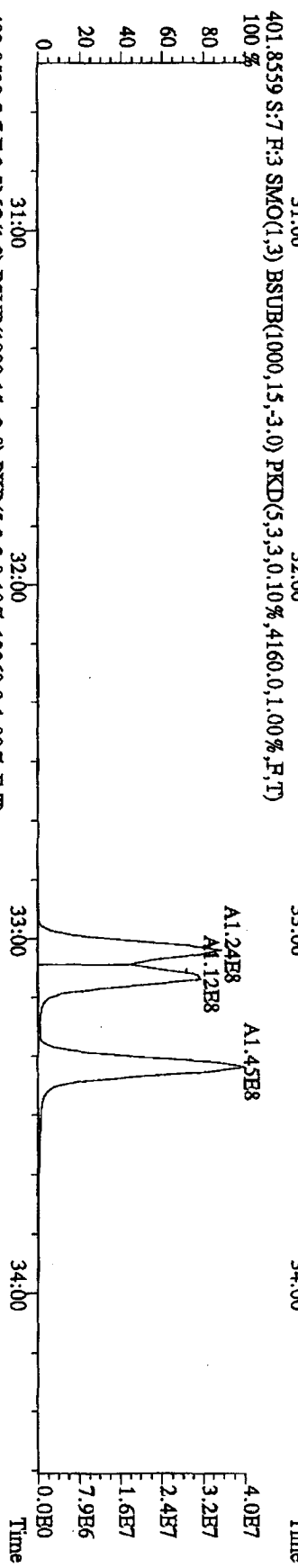
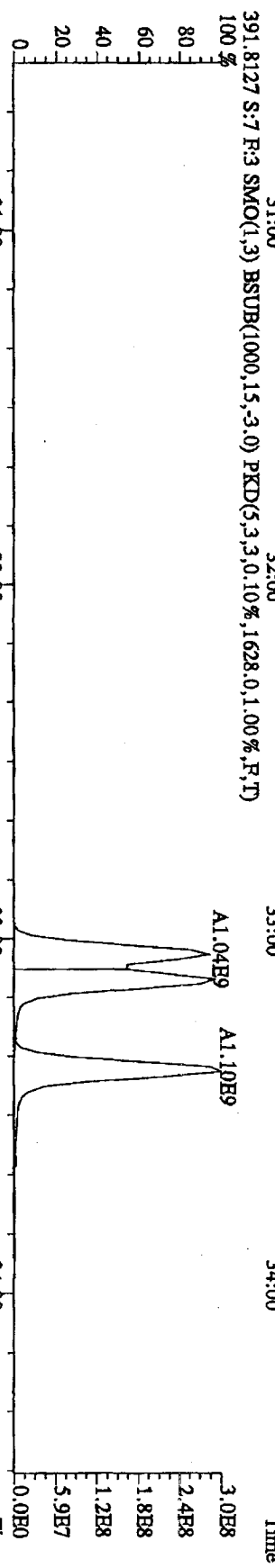
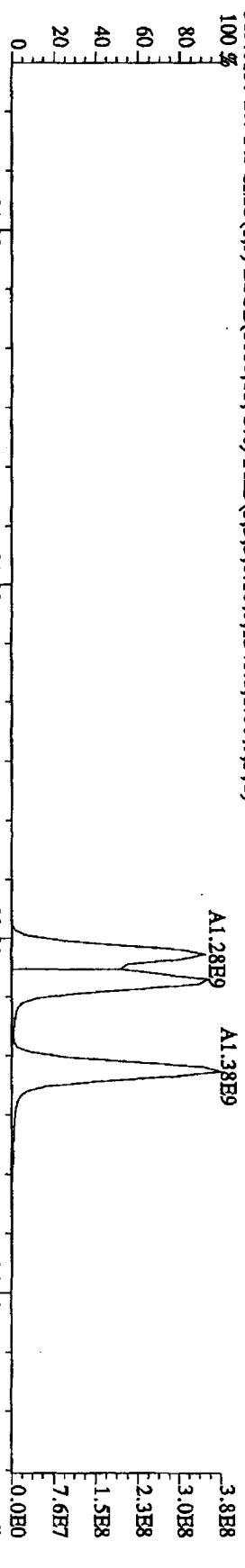
369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3344,0,1,00%,F,T)
 100 %



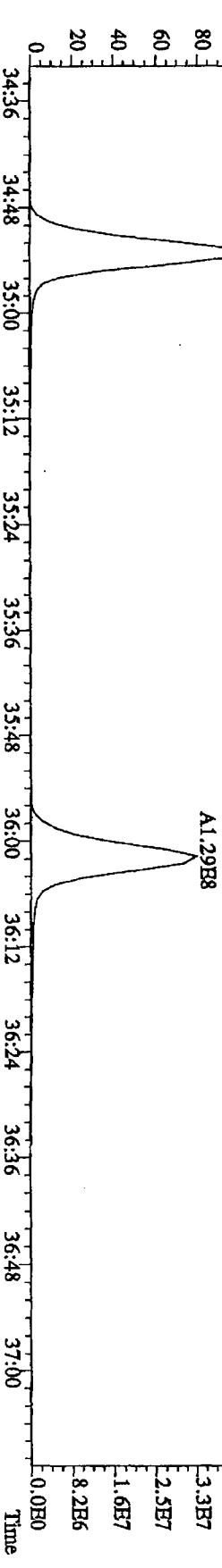
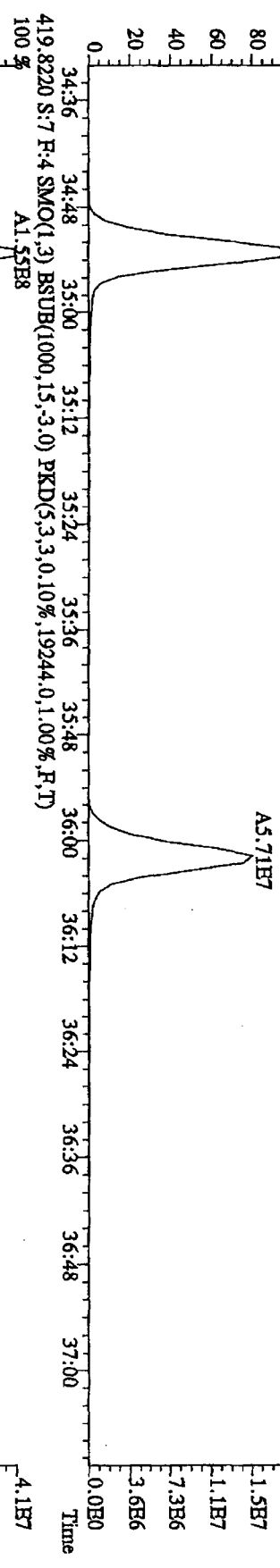
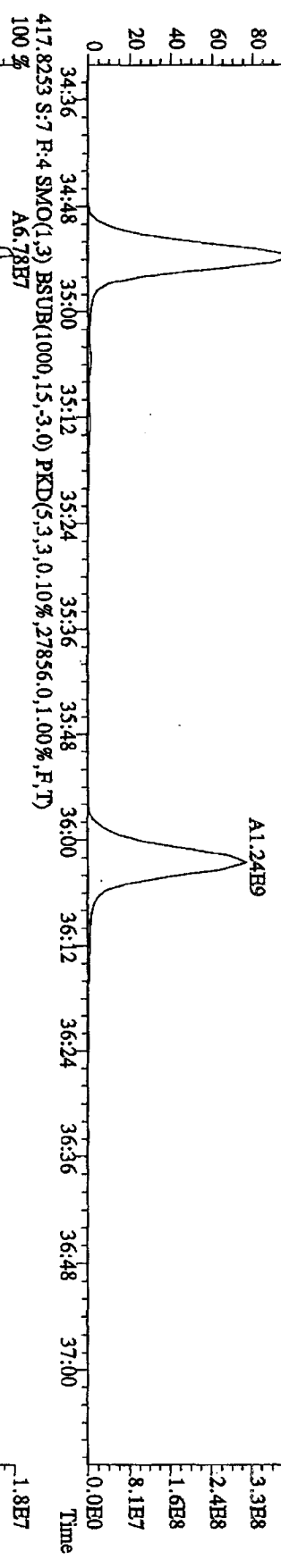
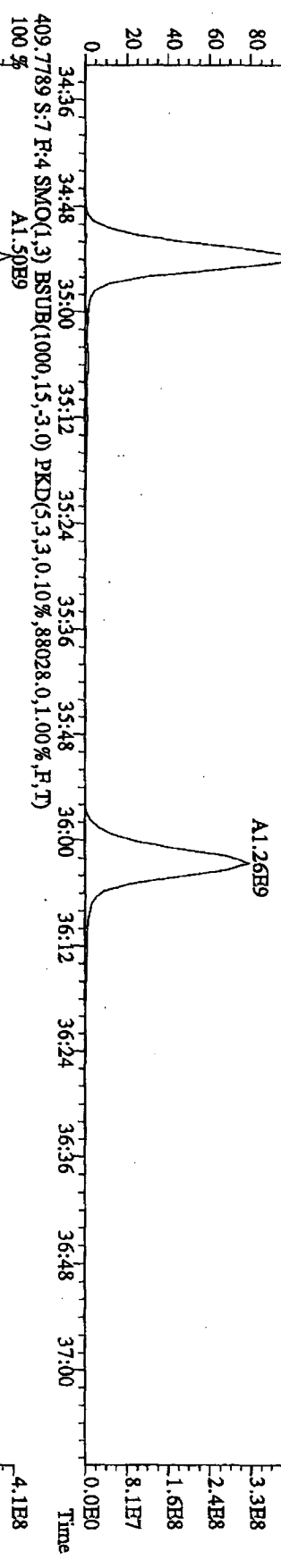
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 373.8208 S:7 F:3 SMO(1,3) BSTUB(1000,15,-3,0) PKD(5,3,3,0,10%,212324,0,1,00%,F,T)



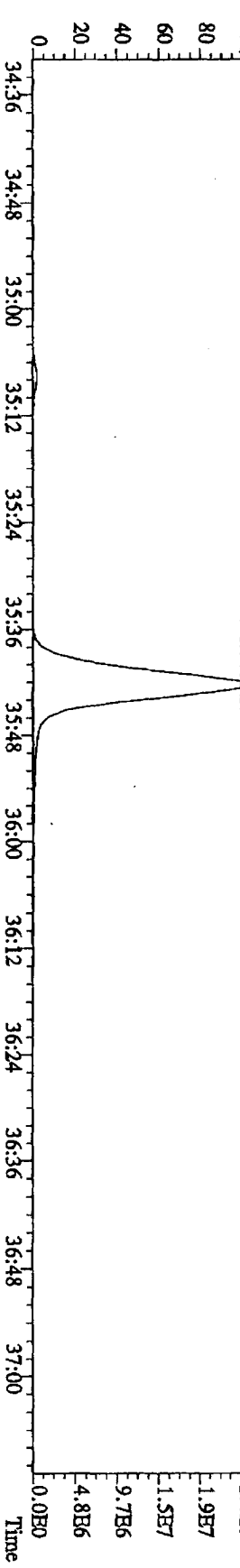
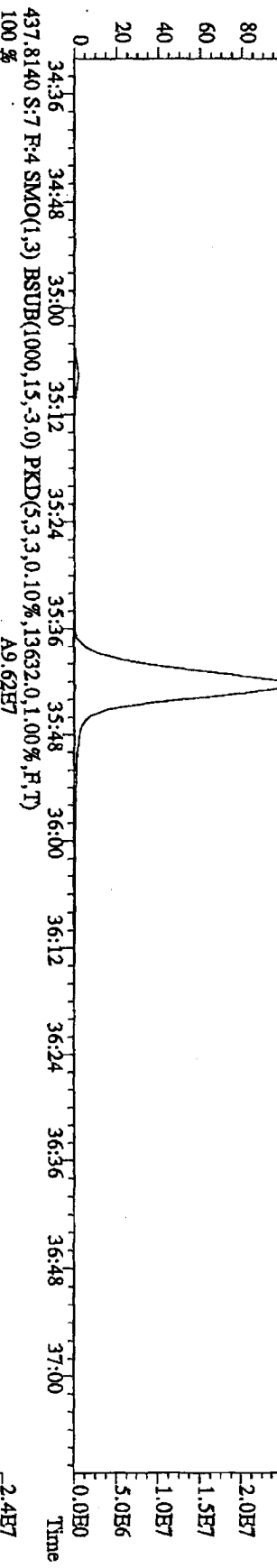
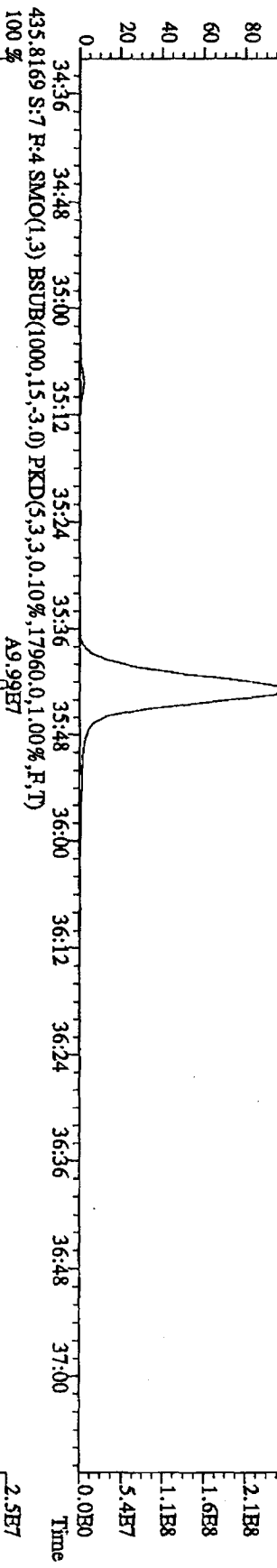
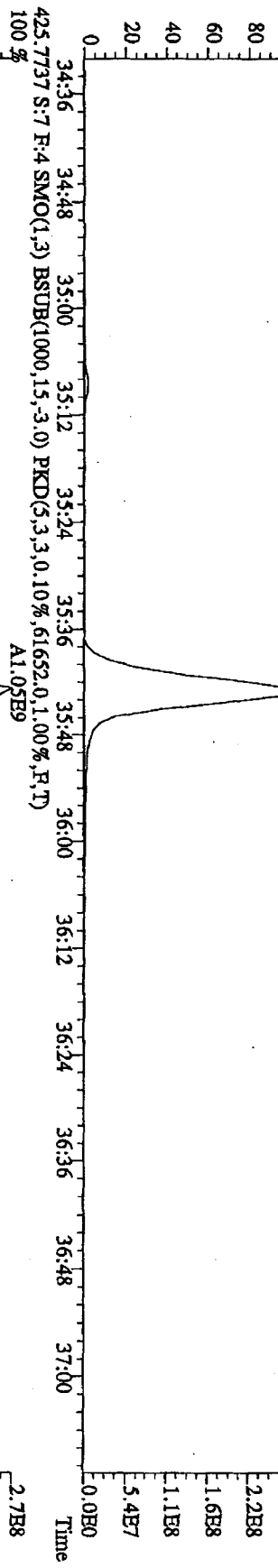
File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:03:58 GC: EI + Voltage: S1R Autospec-UltimaB
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES
 389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T) 100%



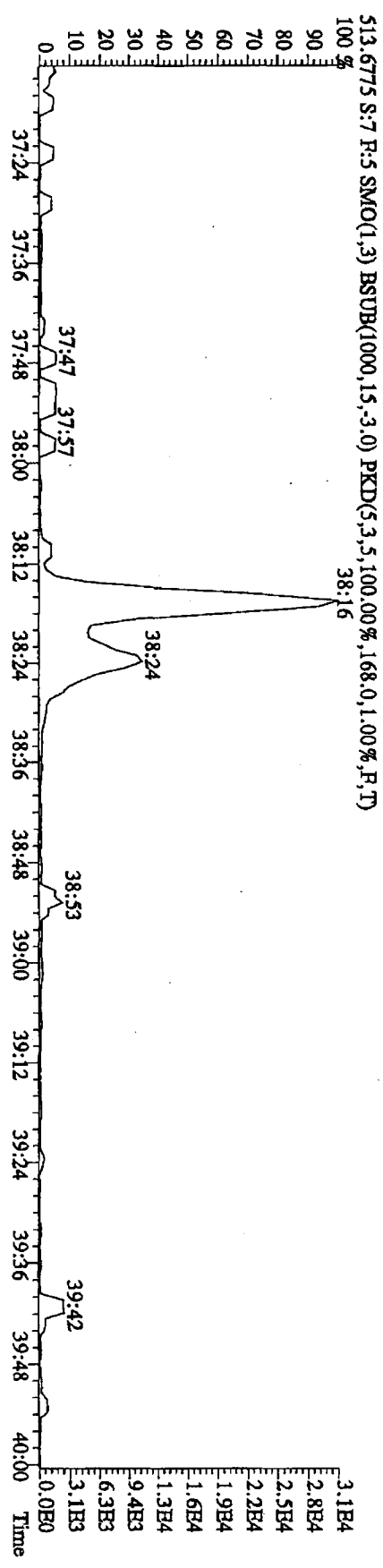
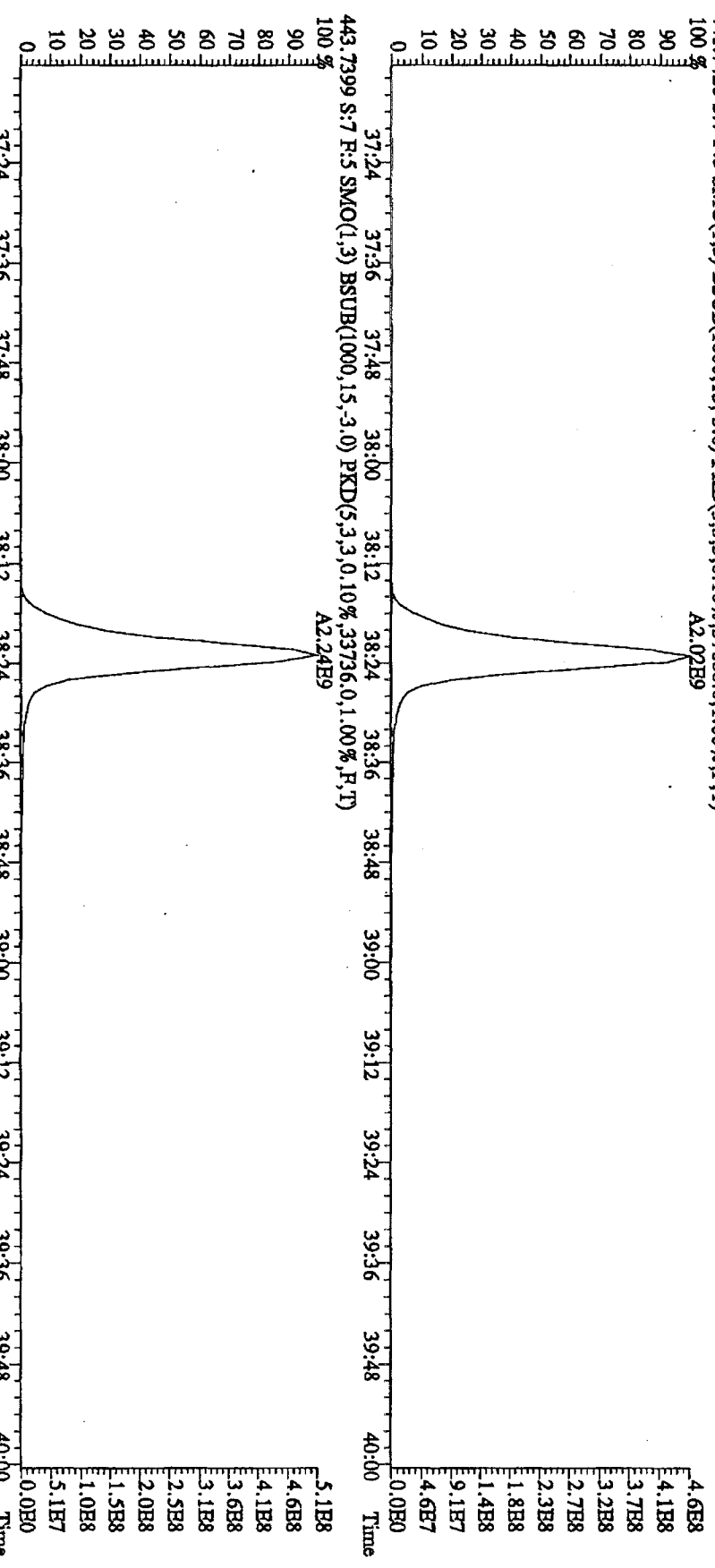
File: 21JUL10A4D5 #1-201 Acq: 21-JUL-2010 19:03:58 GC HI + Voltage SIR Autospec-UltimaB
 Sample#7 Text: ST0721D :CS-5 10DXN399 Exp: DIOXINRES
 407.7818 S:7 R:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,99420,0,1.00%,F,T)
 100% A1.51E9



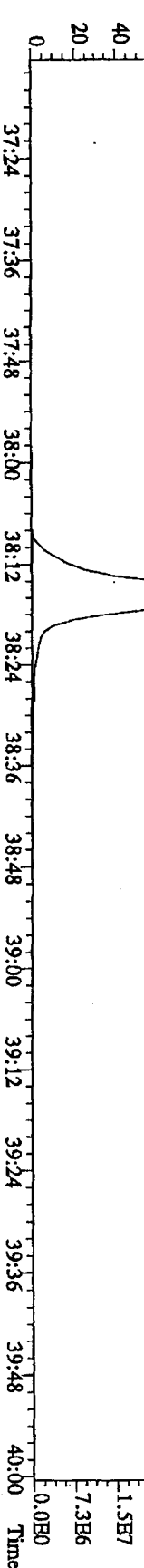
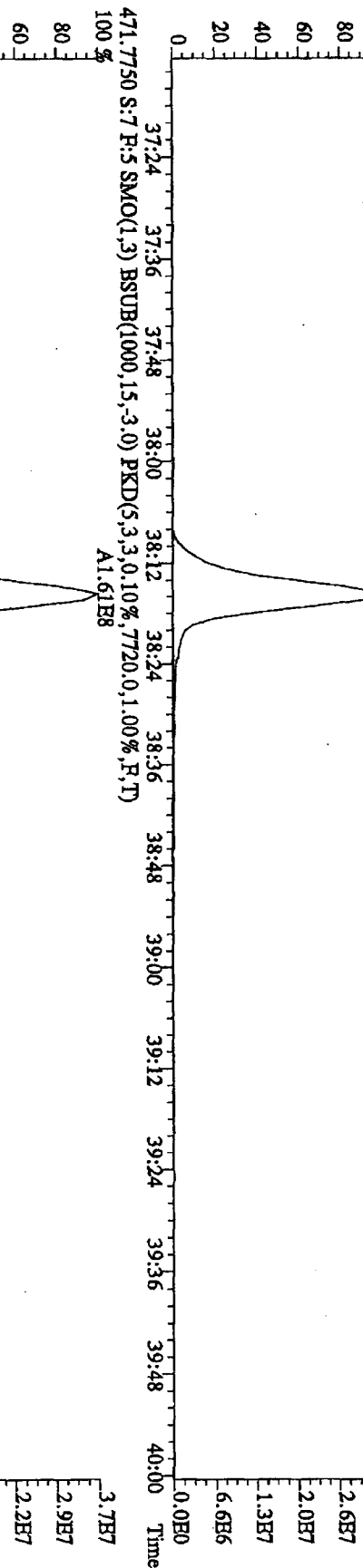
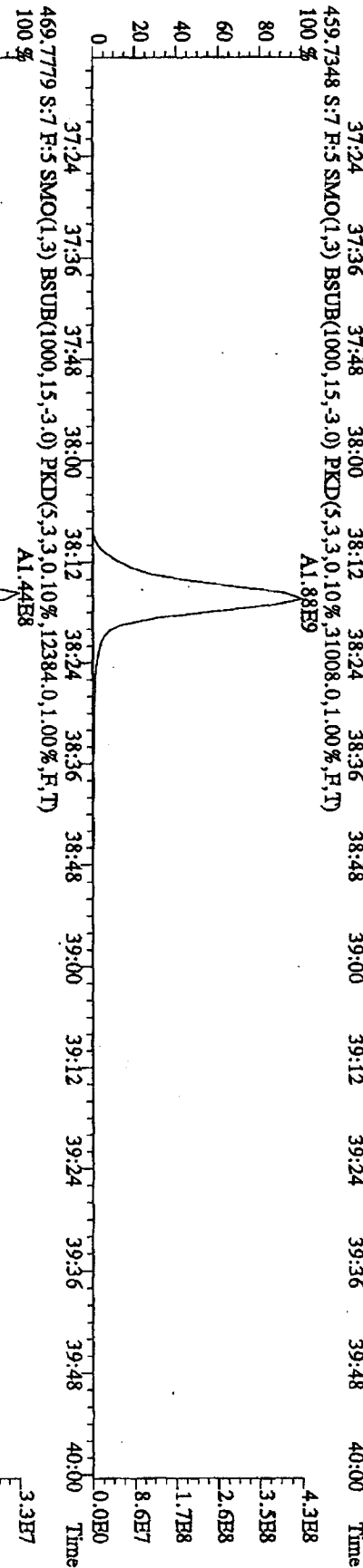
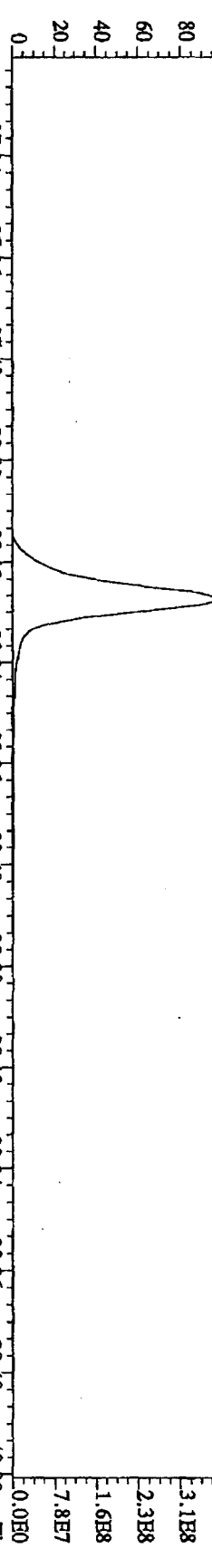
File:21IL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75680.0,1.00%,F,T)
 100% A1.08B9



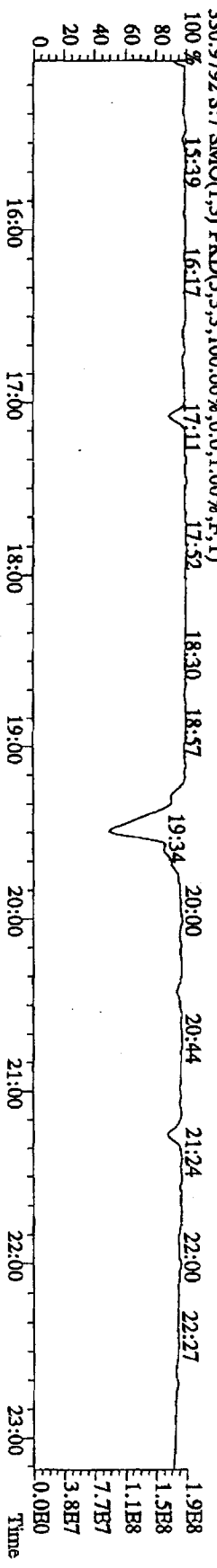
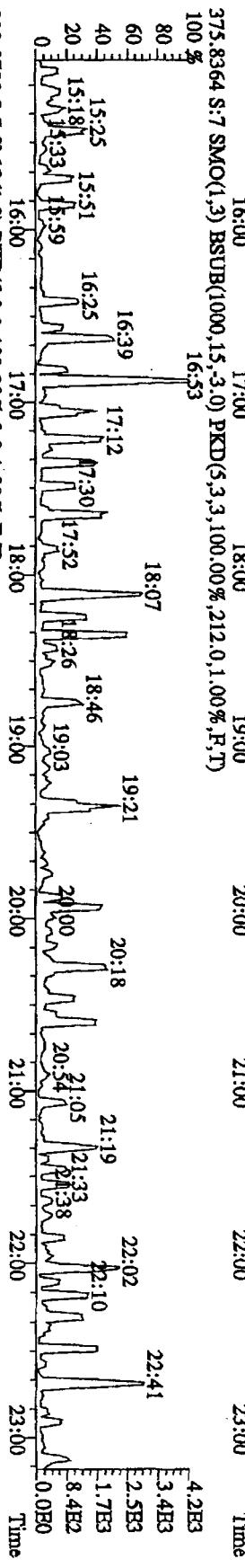
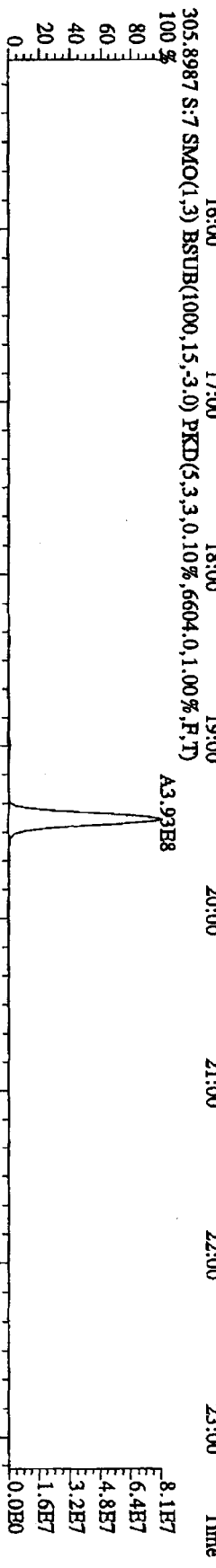
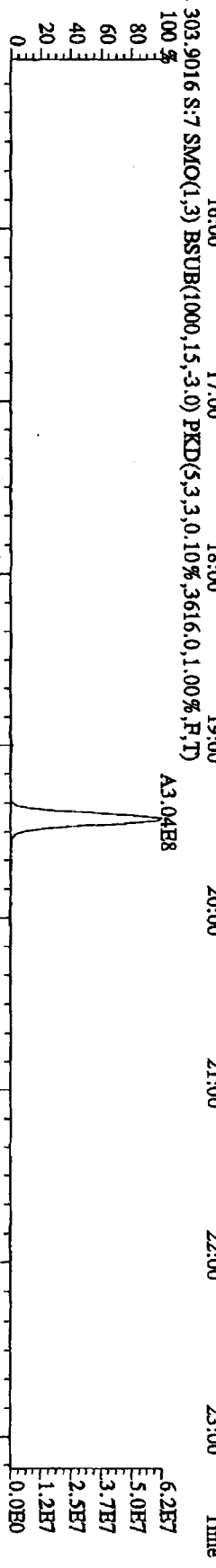
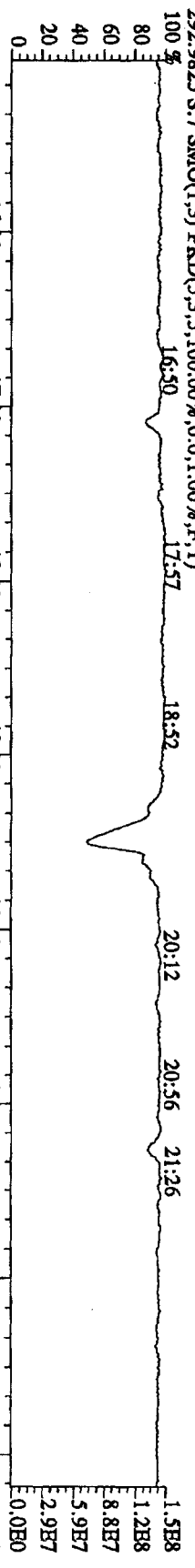
File: 21JL10A4D5 #1-227 Acq: 21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES
 441.7428 S:7 R:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,37688,0,1,00%,F,T)
 A2.02E9



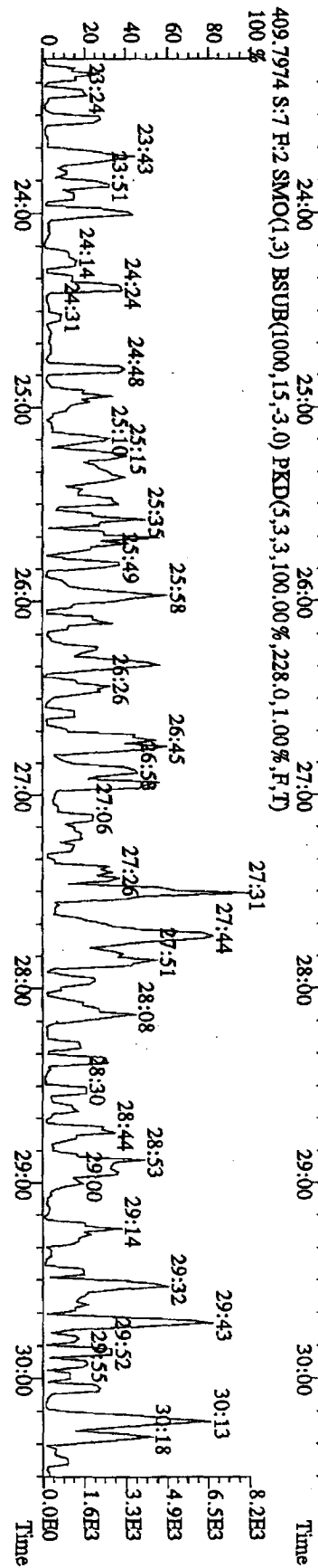
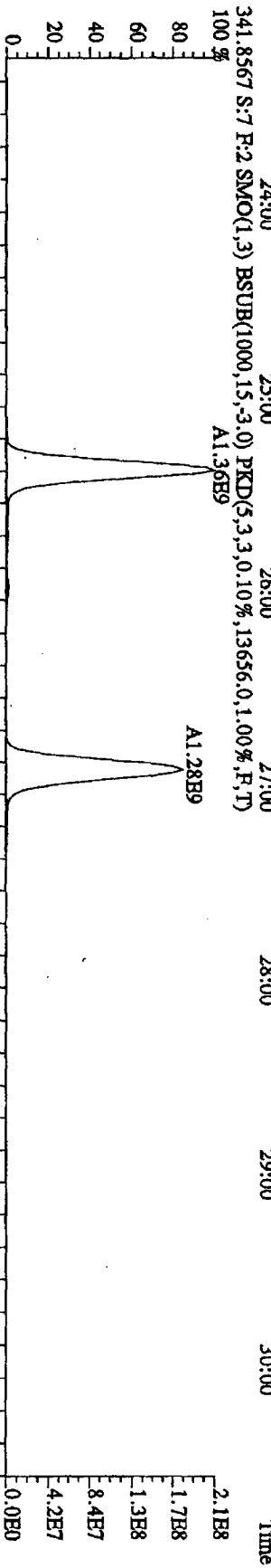
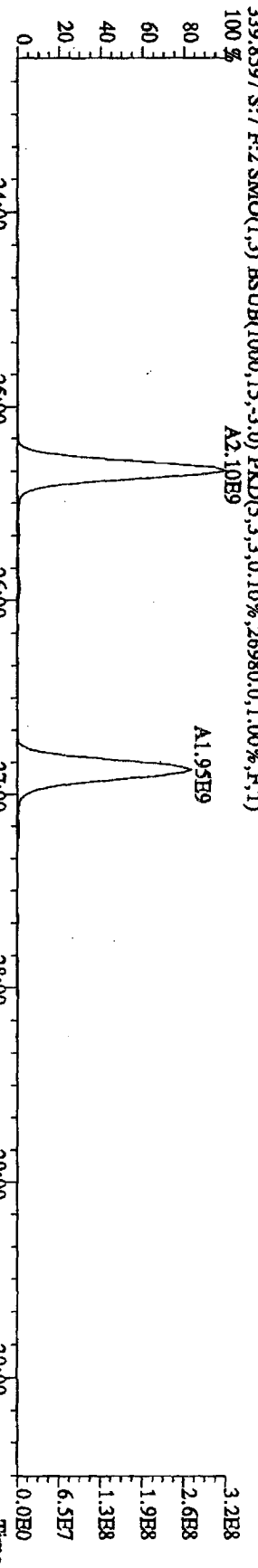
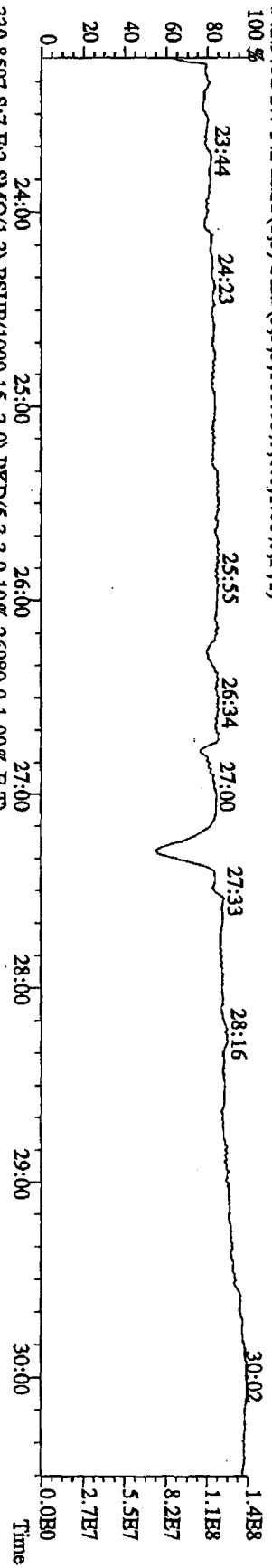
File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,27244,0,1.00%,F,T)
 100% A1.69E9



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES

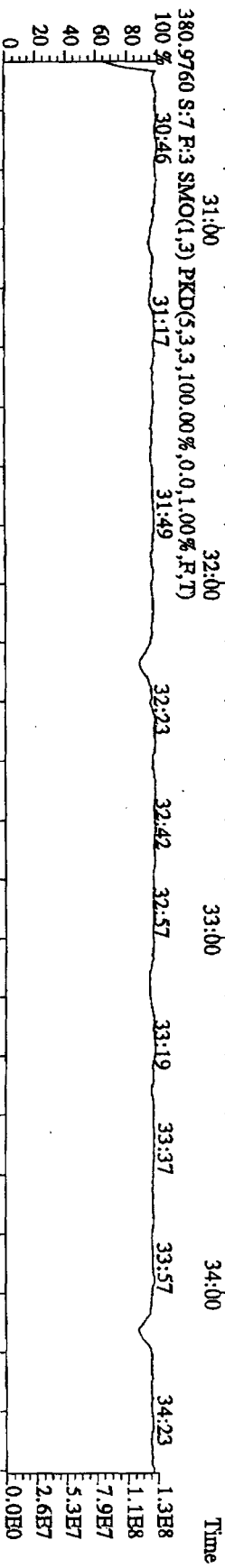
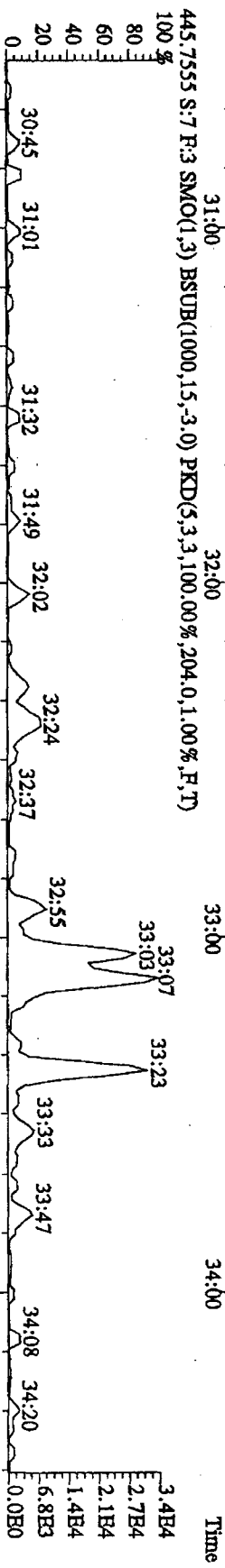
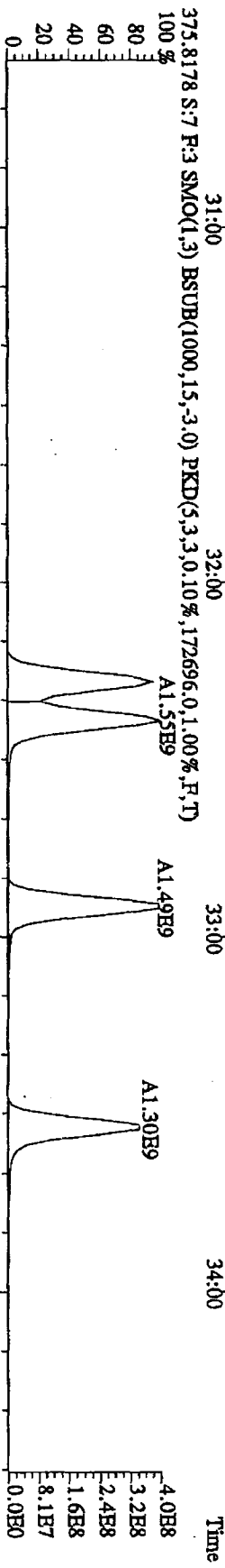
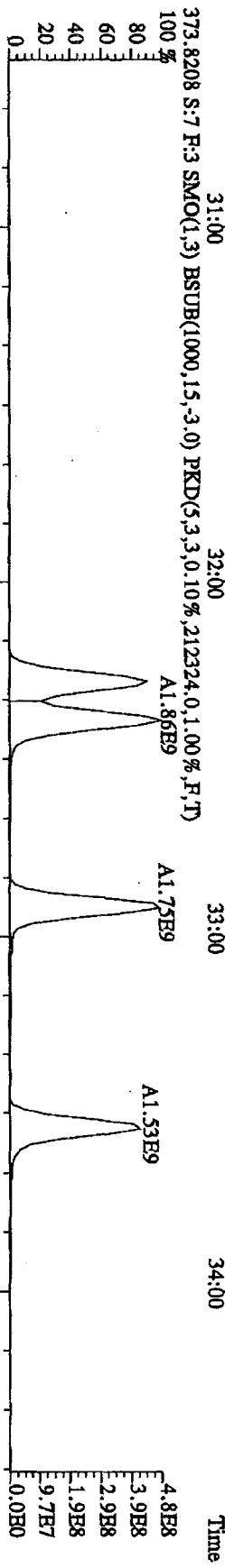


File:21JUL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 Bsp:DIOXINRES

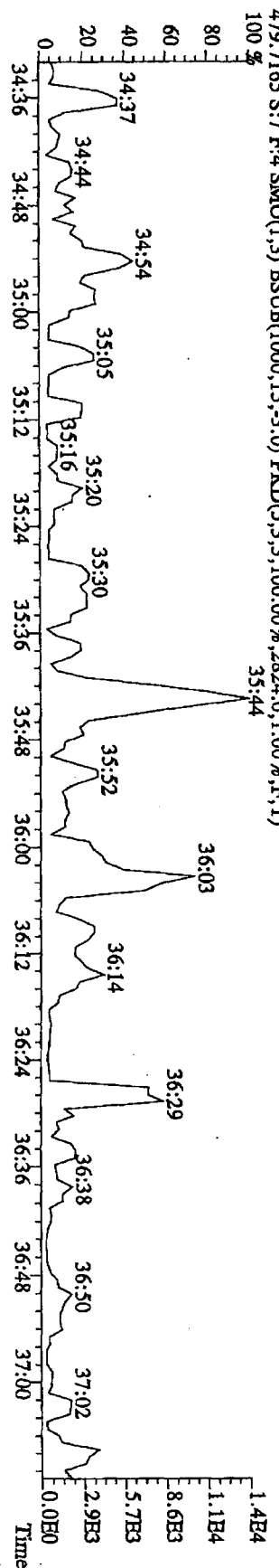
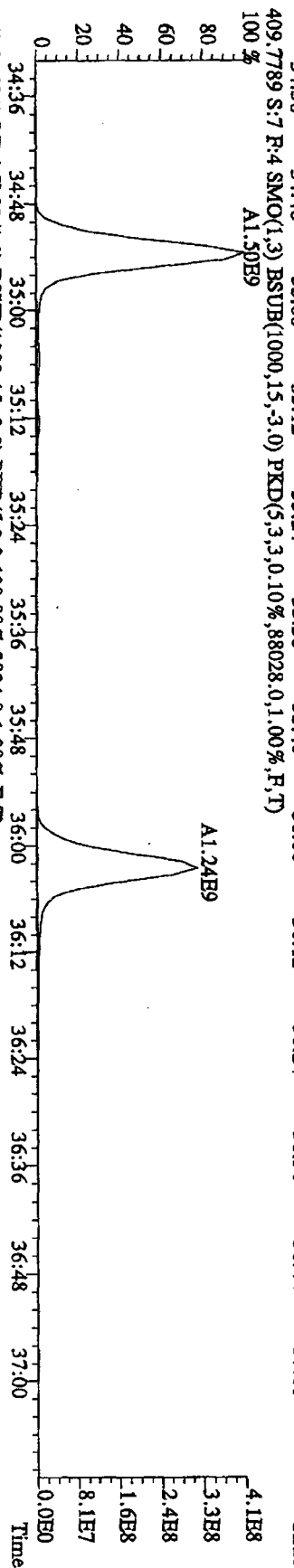
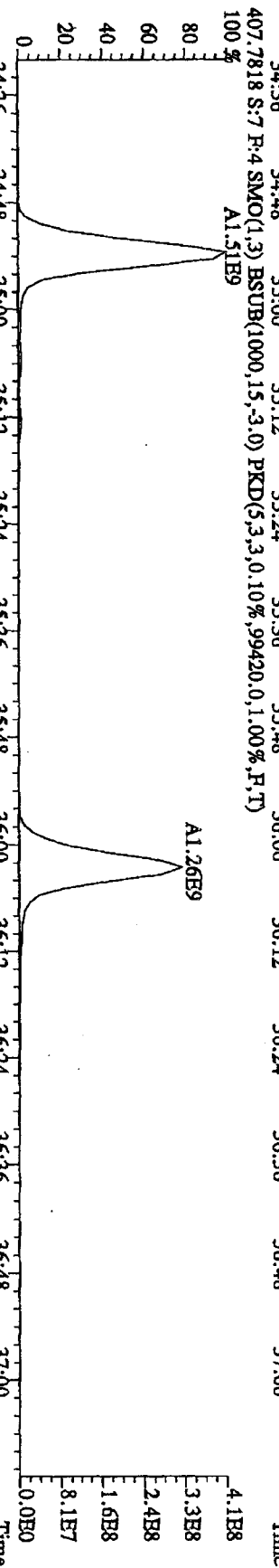
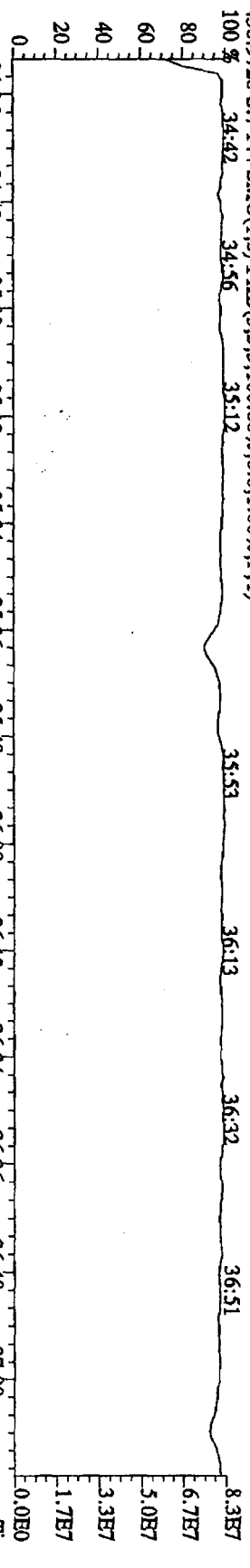


File:211110A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage STR Autospec-UltimaB

Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:1DIOXINRES



File: 211110A4D5 #1-201 Acq: 21-JUL-2010 19:03:58 GC HI + Voltage SIR Autospec-Ultimate
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXNRES
 430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88028.0,1.00%,F,T)



File:21JUL10AAD5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimah

Sample#7 Text:ST0721D :CS-510DXN39 Exp:DIOXINRES

454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 37:18

37:41

38:01

38:13

38:28

38:42

39:08

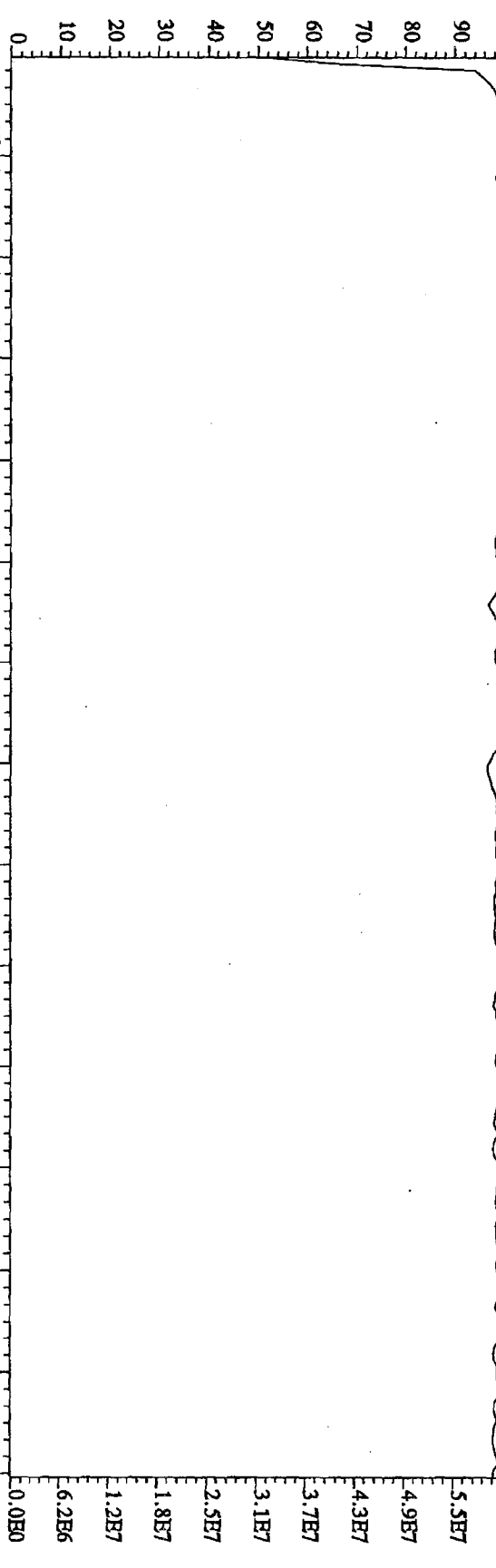
39:24

39:34

39:43

39:54

6.2E7



442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 37:26

37:42

37:57

38:21

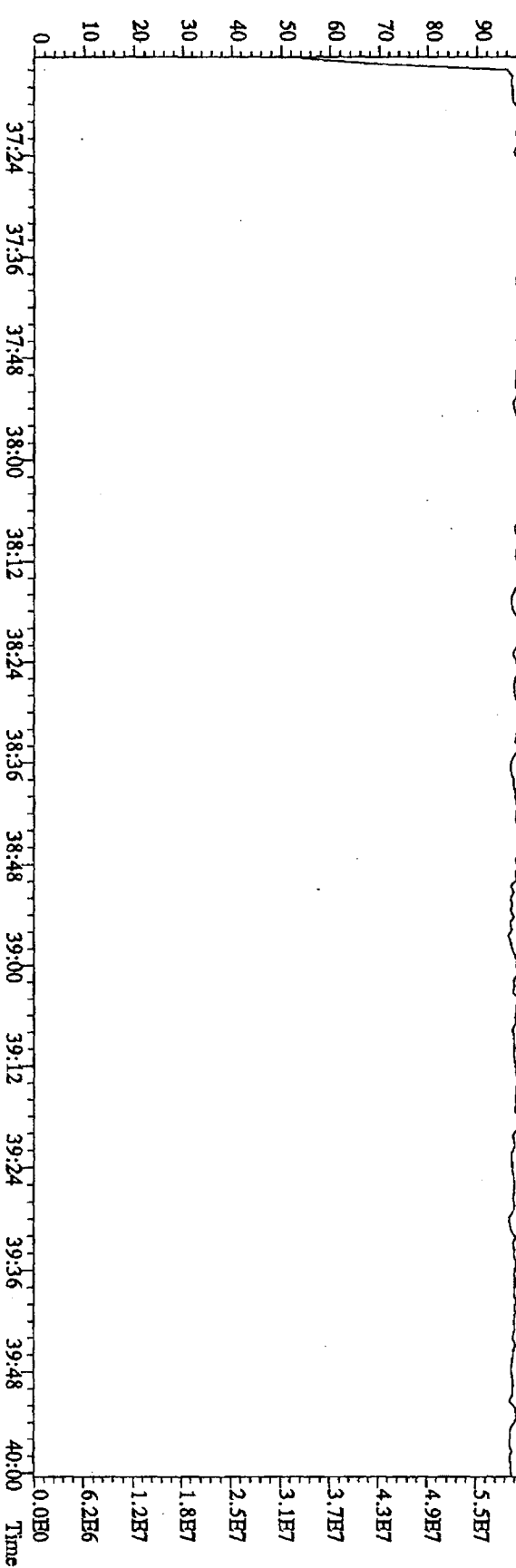
38:41

39:18

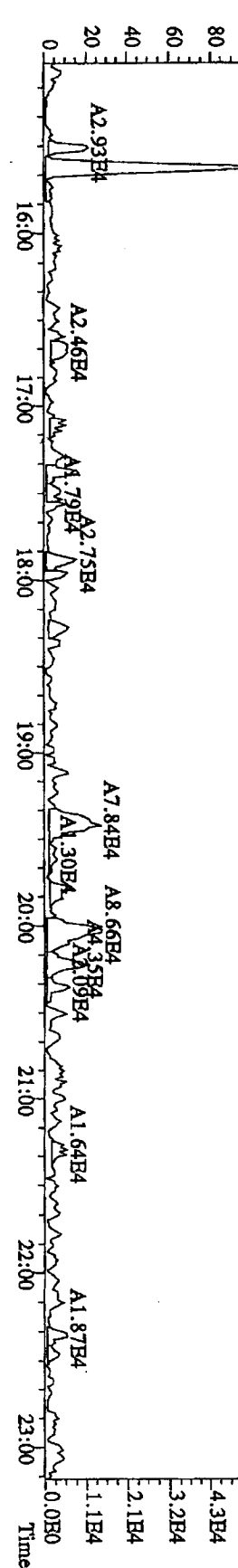
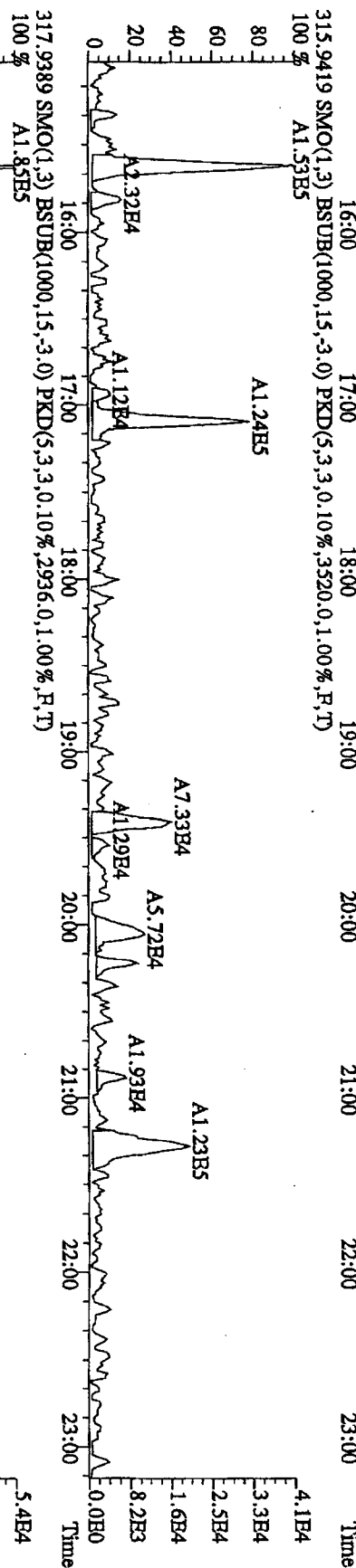
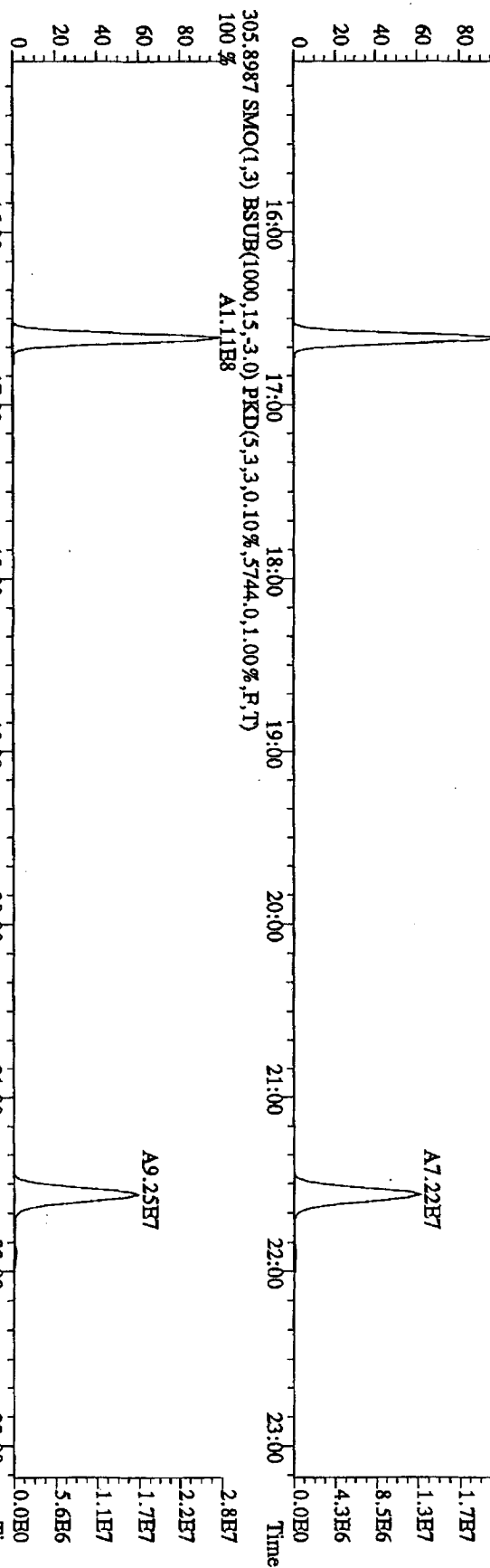
39:35

39:52

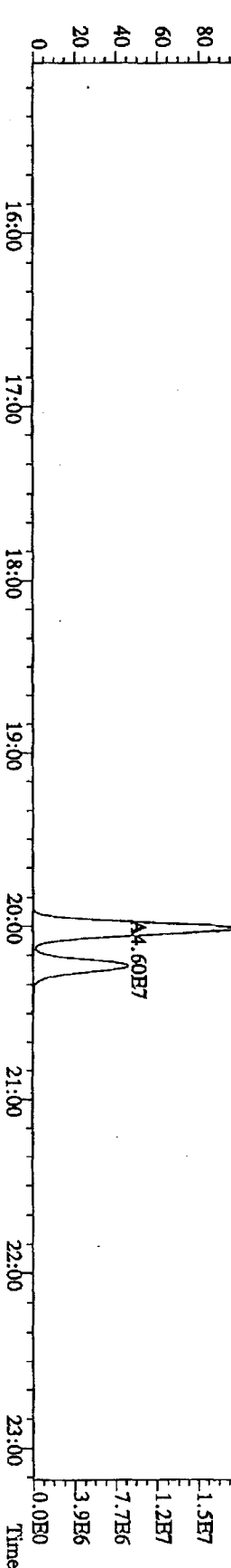
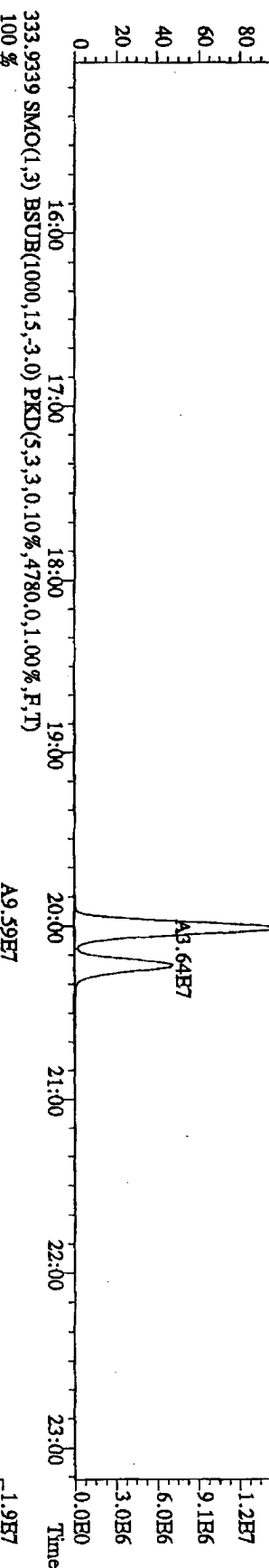
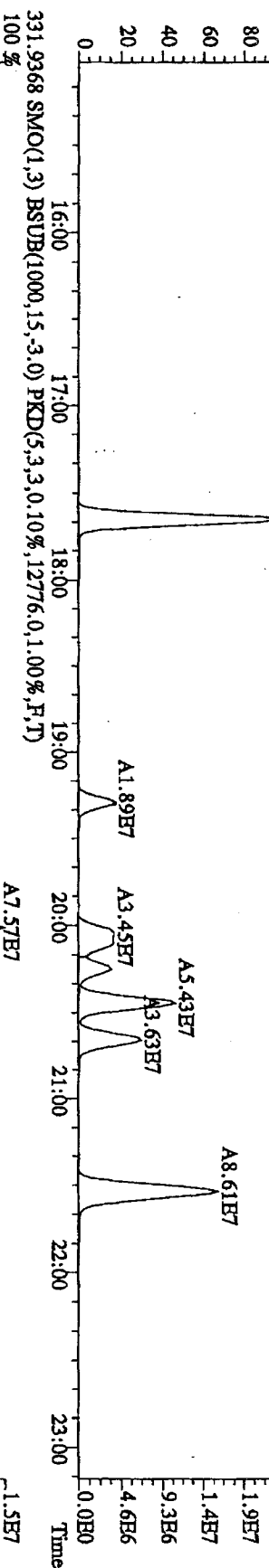
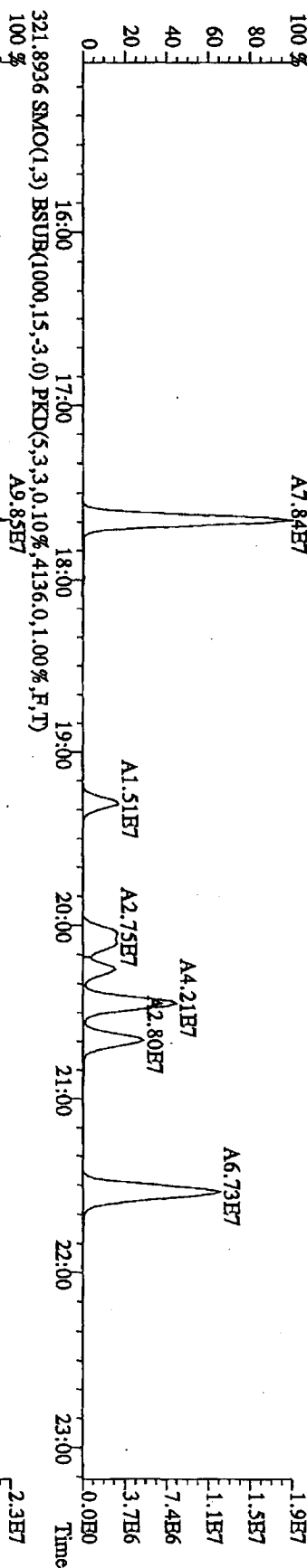
6.2E7



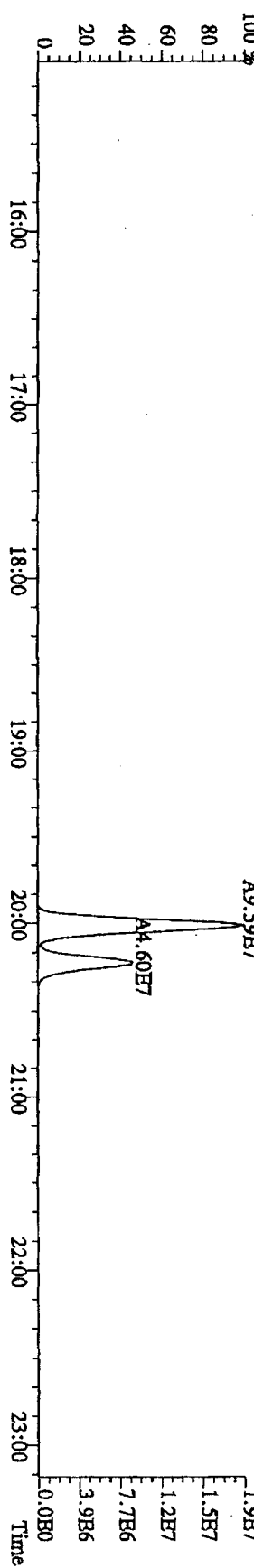
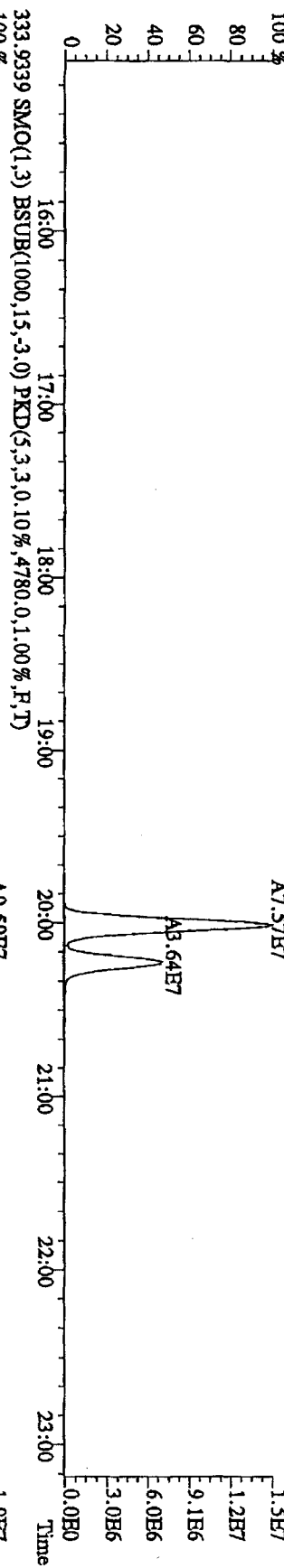
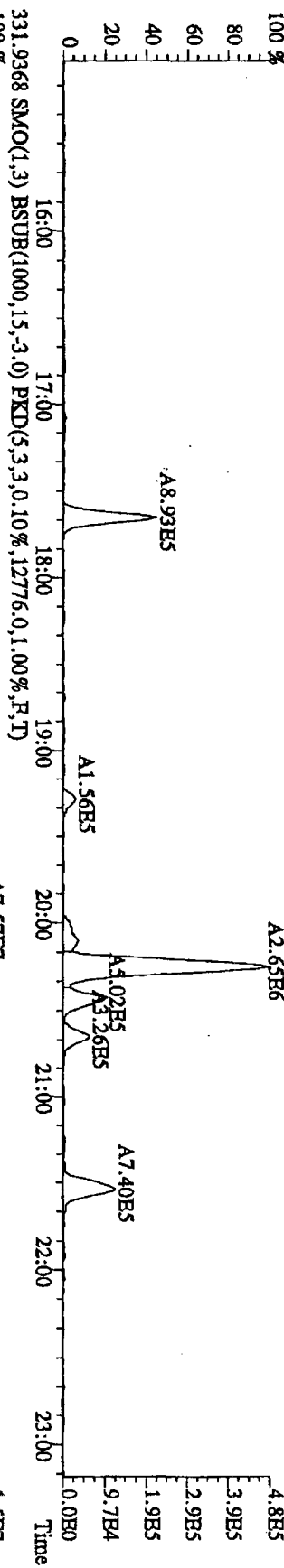
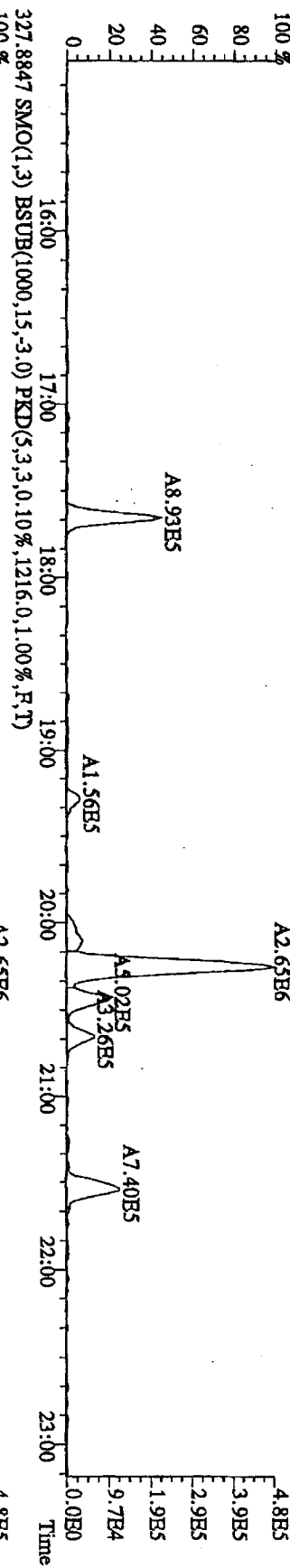
File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage:50V SIR Autospec-UltimaB
 Sample#1 Text:CP0721 :DB-5 CPM 3732-08 Exp.:DIOXINRES
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4200,0,1,00%,F,T)
 100%



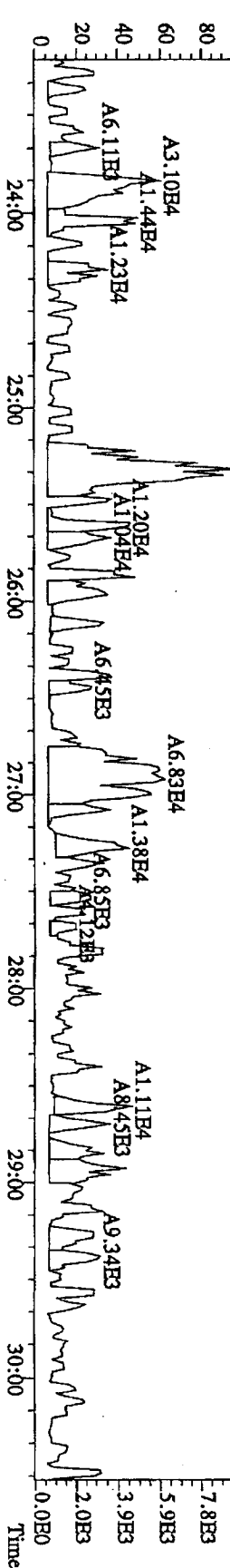
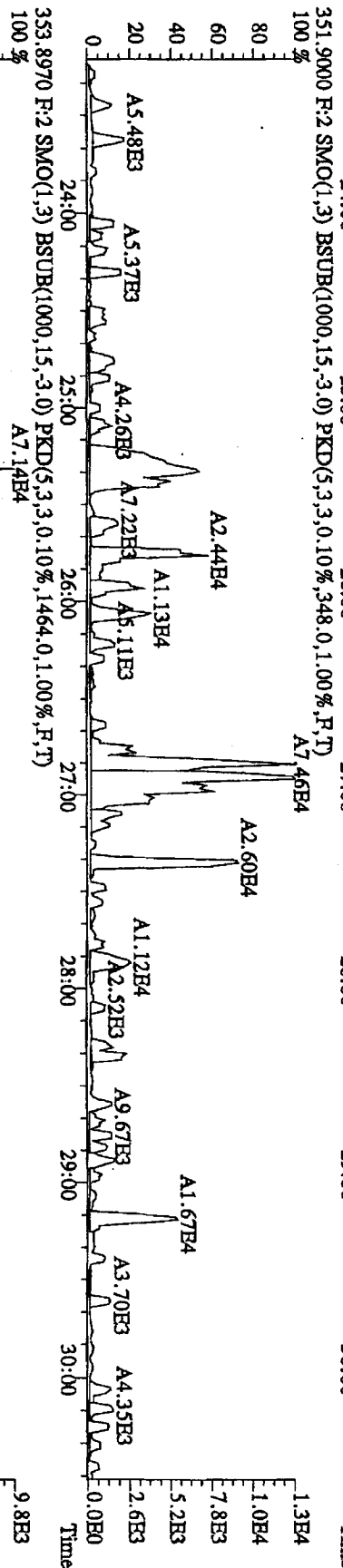
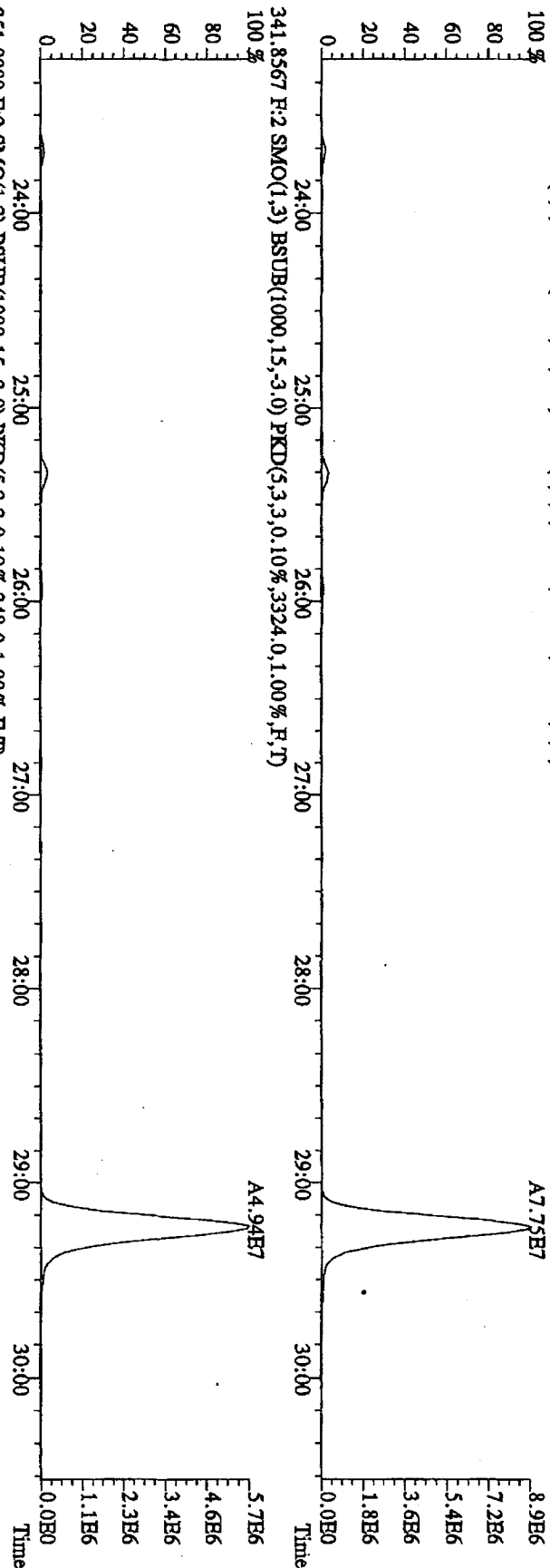
File: 211L10AADD5 #1-541 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#1 Text: CP0721 :DB-5 CFSM 3732-08 Exp: DIOXINRES
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2940,0,1.00%,F,T)
 100% A7.84E7



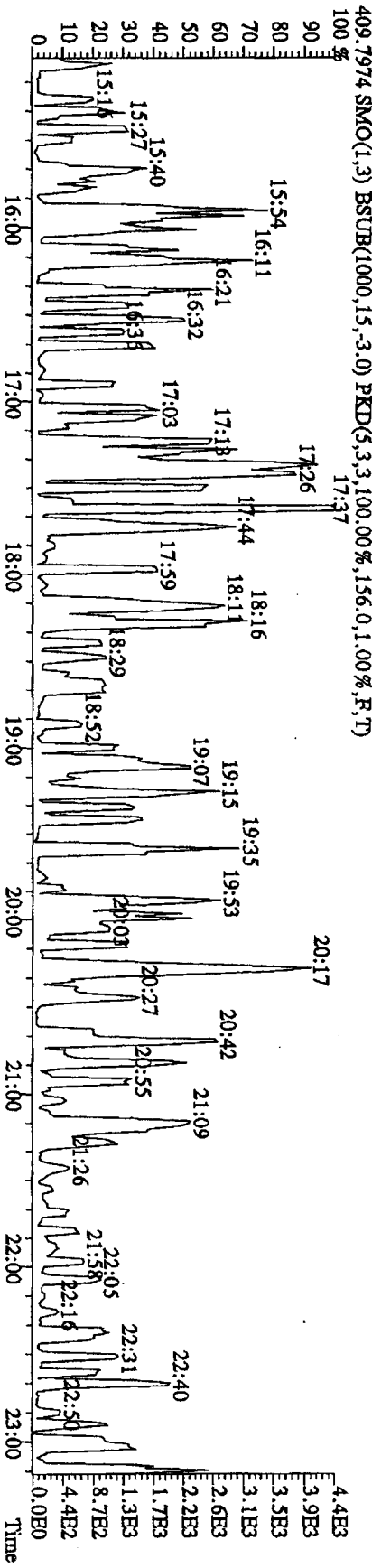
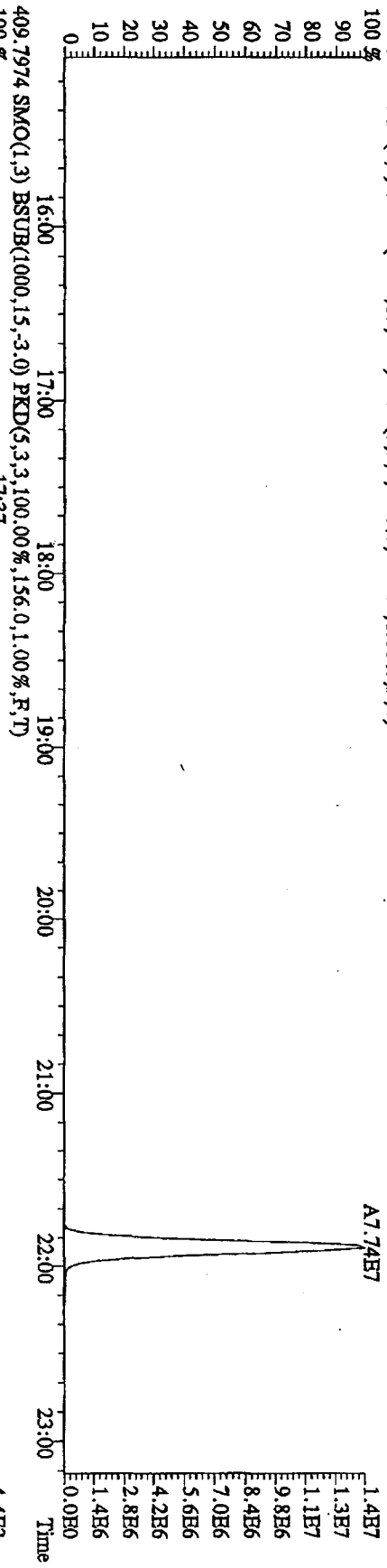
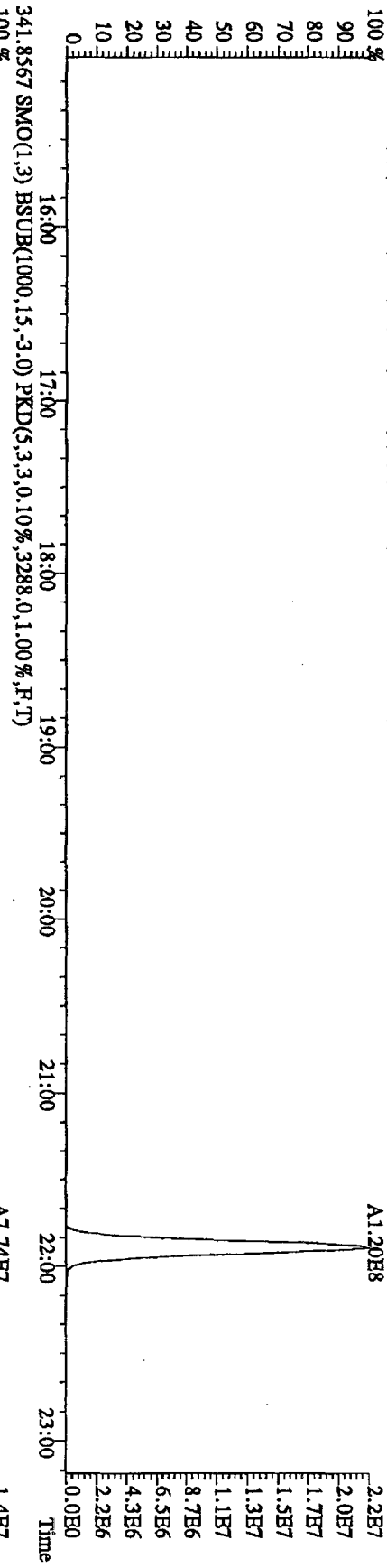
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0721 :DB-5 CPM 3732-08 Exp.:DIOXINRES
 327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1216,0,1,00%,F,T)
 100 %



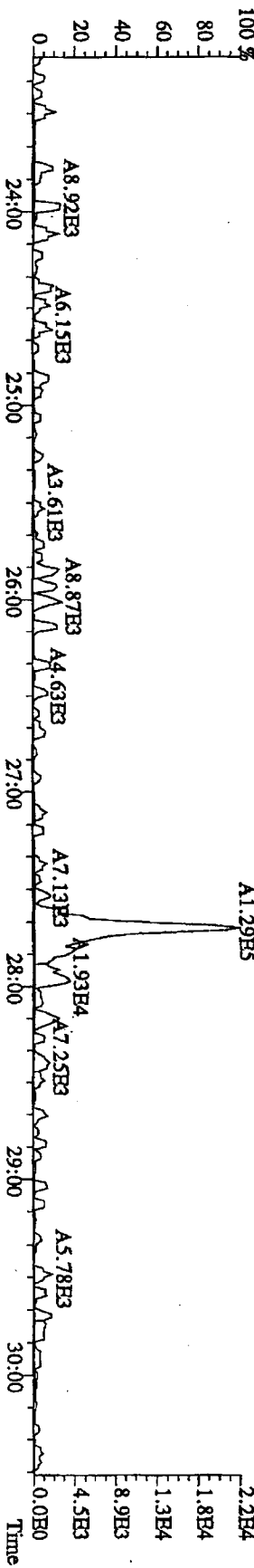
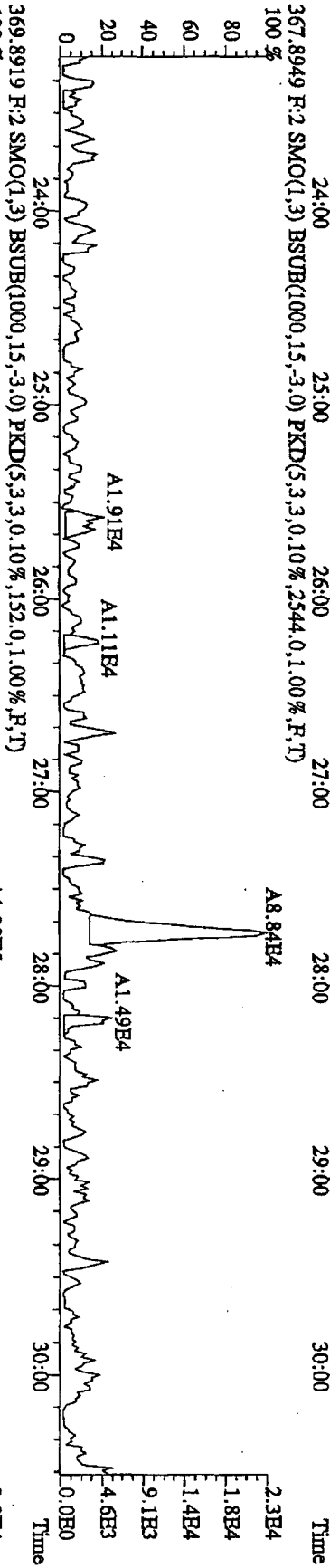
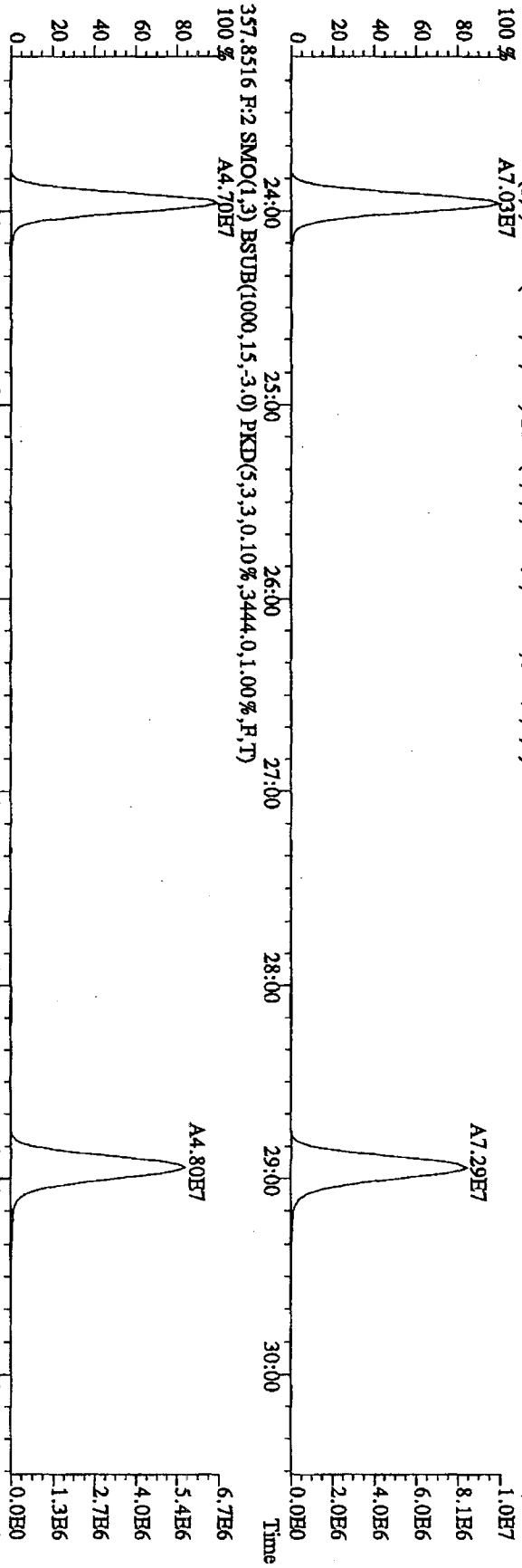
File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC HF+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINES
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832,0.1,00%,F,T)
 100 %



File: 211L10A4D5 #1-541 Acq: 21-JUL-2010 14:32:55 GC BI+ Voltage STR Autospec-UltimaB
 Sample#1 Text: CP0721 :DB-5 CRSM 3732-08 Exp: DIOXINRES
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2180.0,1.00%,F,T)



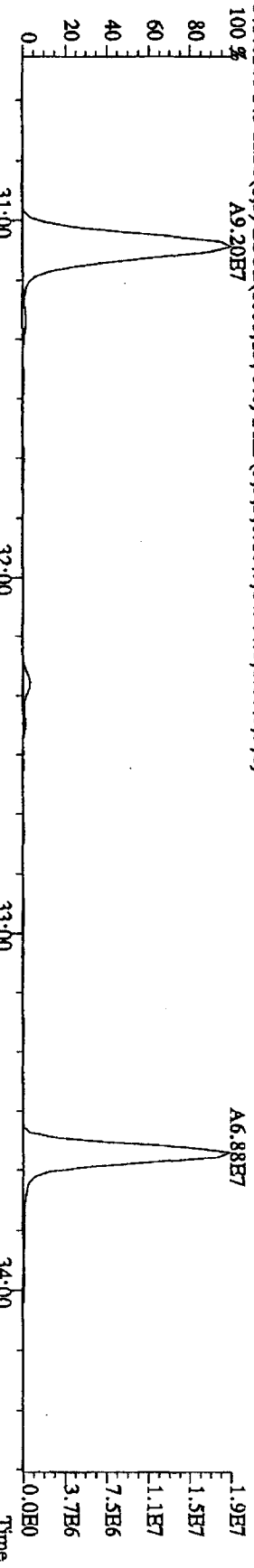
File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4464,0,1.00%,F,T)
 100%



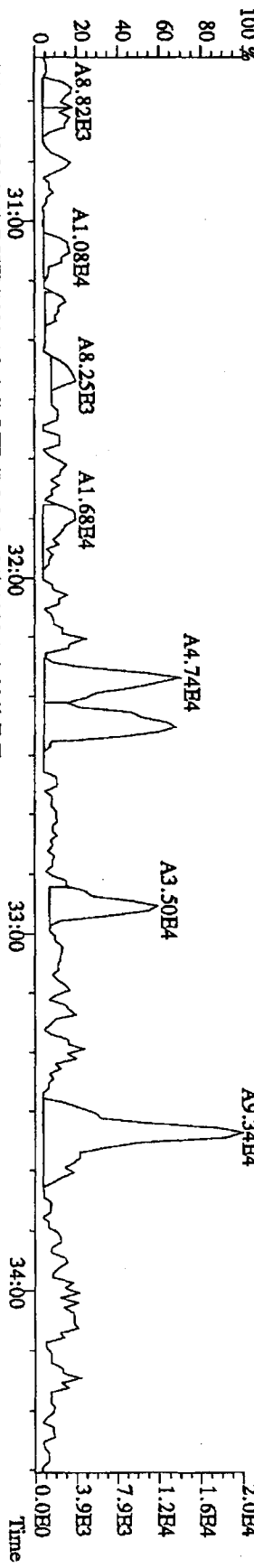
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC HF+ Voltage SIR Autospec-UltimaB

Sample#1 Text:CP0721 :DB-5 CP5M 3732-08 Exp:DIOXINRES

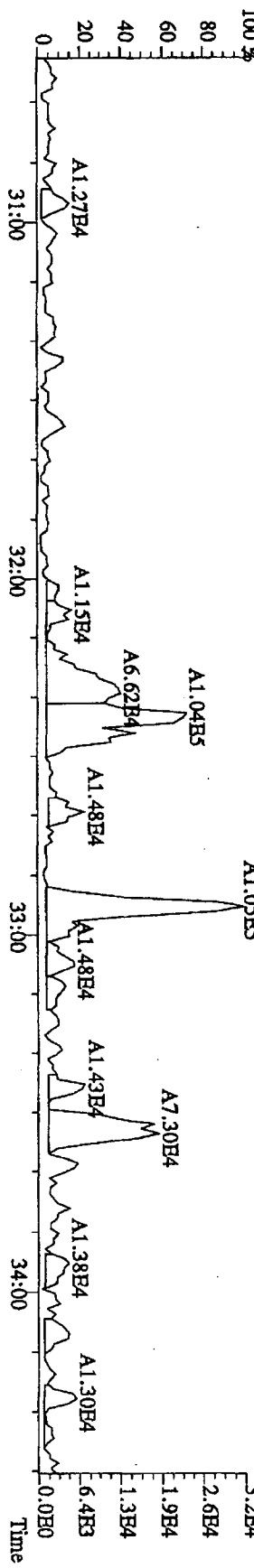
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10284,0.1,00%,F,T)



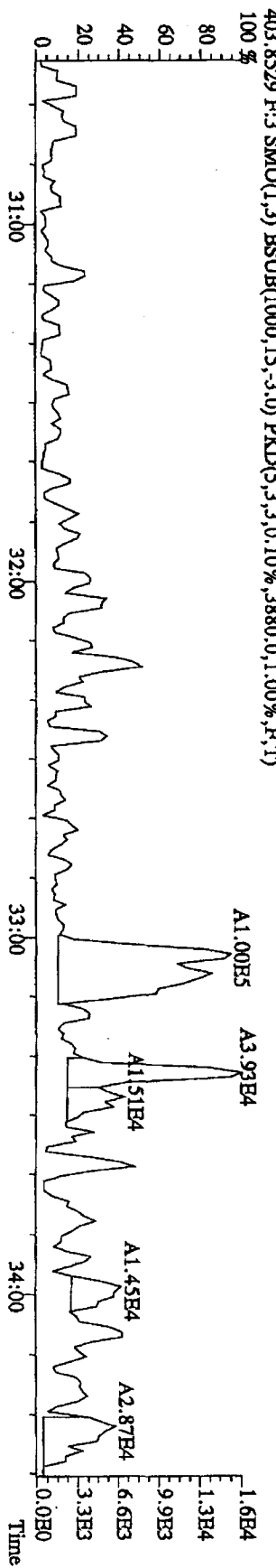
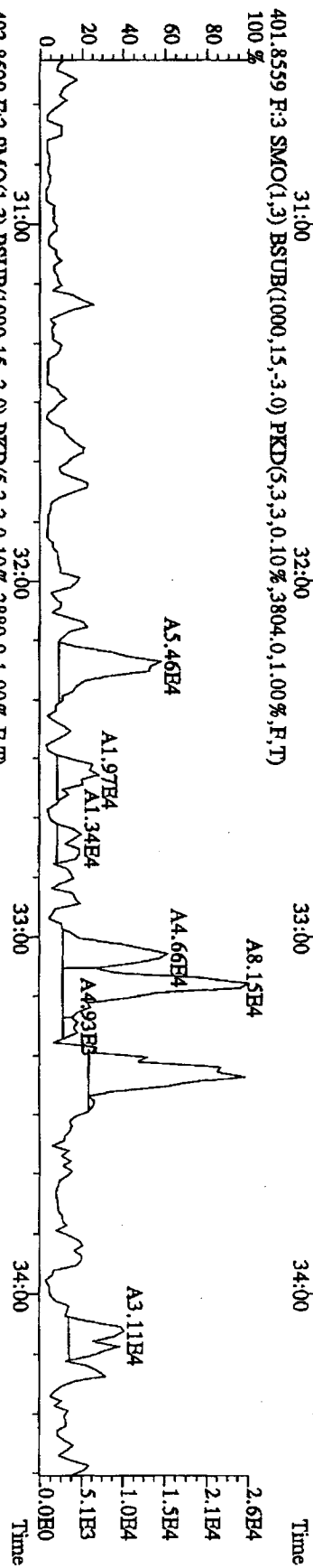
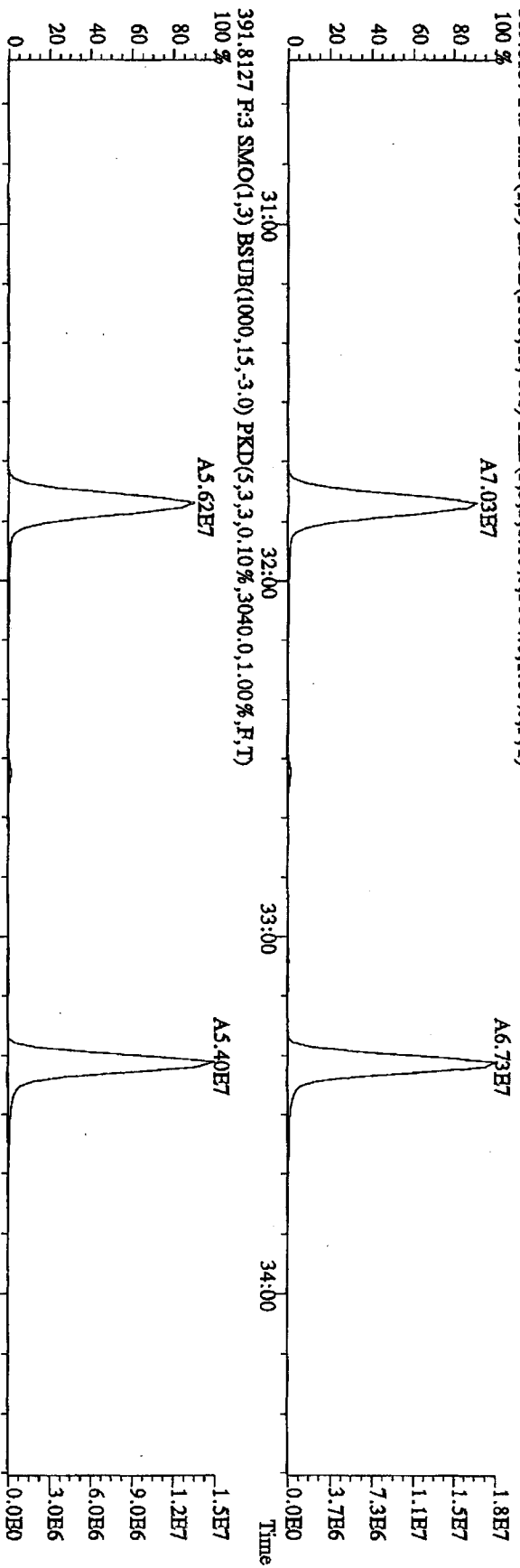
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056,0.1,00%,F,T)



385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2320,0.1,00%,F,T)



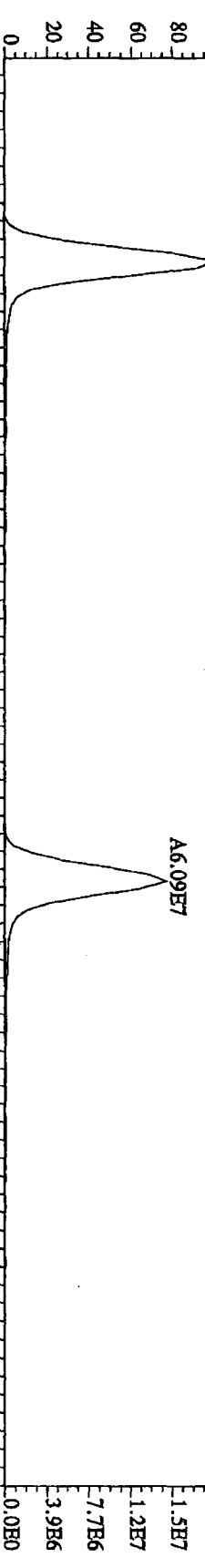
File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#1 Text: CP0721 :DB-5 CPSM 3732-08 Exp: DIOXINRES
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5064,0.1,0.00%,F,T)



Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DI0XINRES

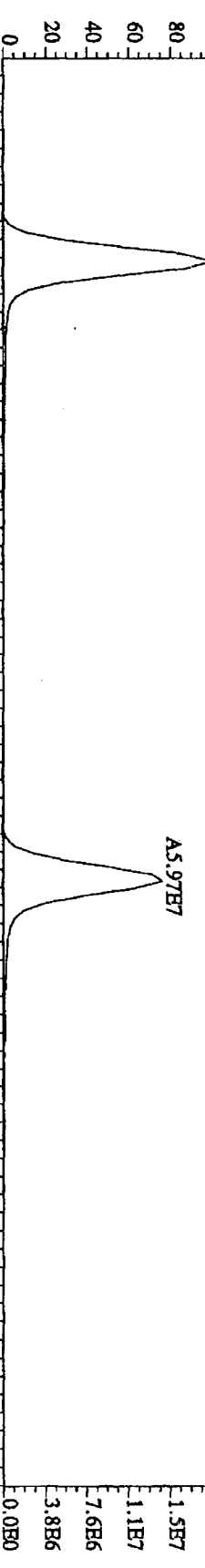
407.7818 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,15860,0,1.00%,F,T)

100% A7.25E7



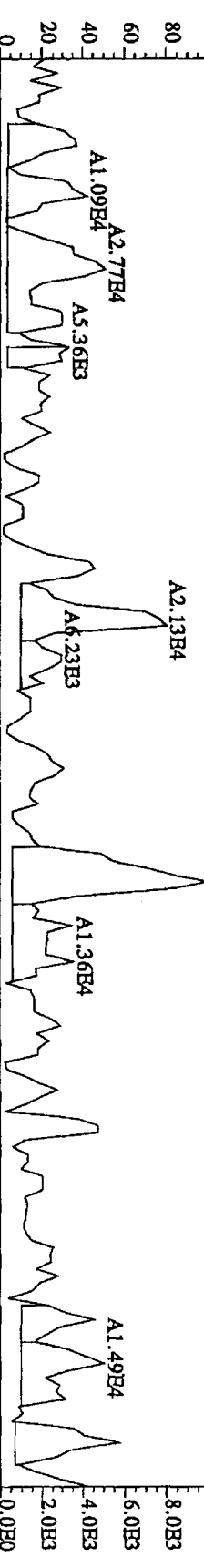
409.7789 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,15860,0,1.00%,F,T)

100% A7.11E7



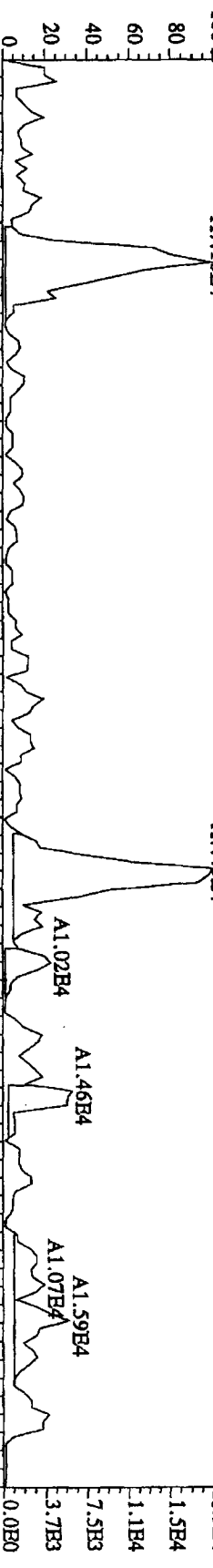
417.8253 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2588,0,1.00%,F,T)

100% A7.11E7



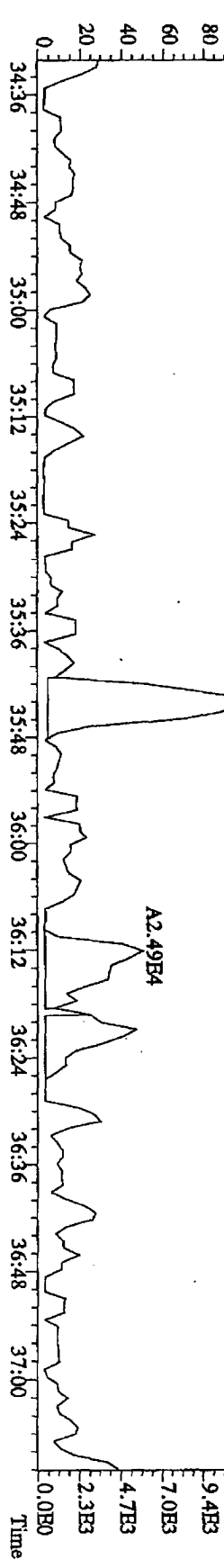
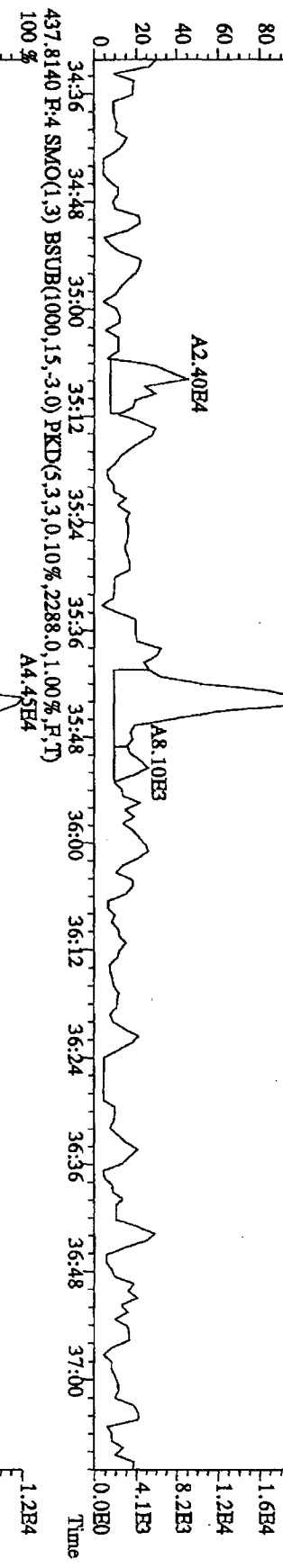
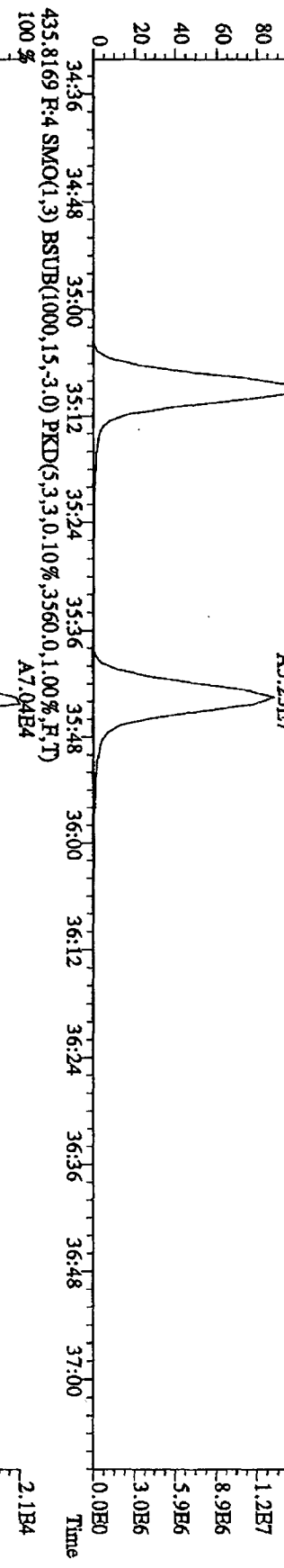
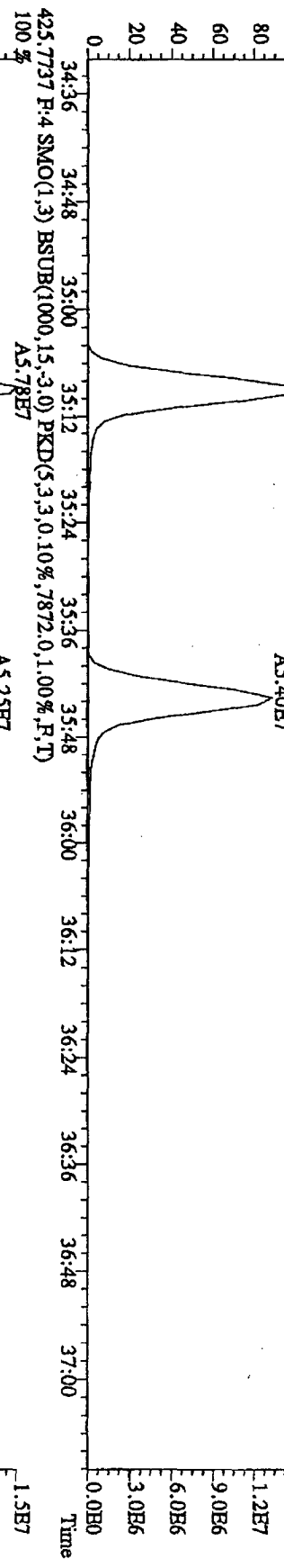
419.8220 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2160,0,1.00%,F,T)

100% A7.10E4

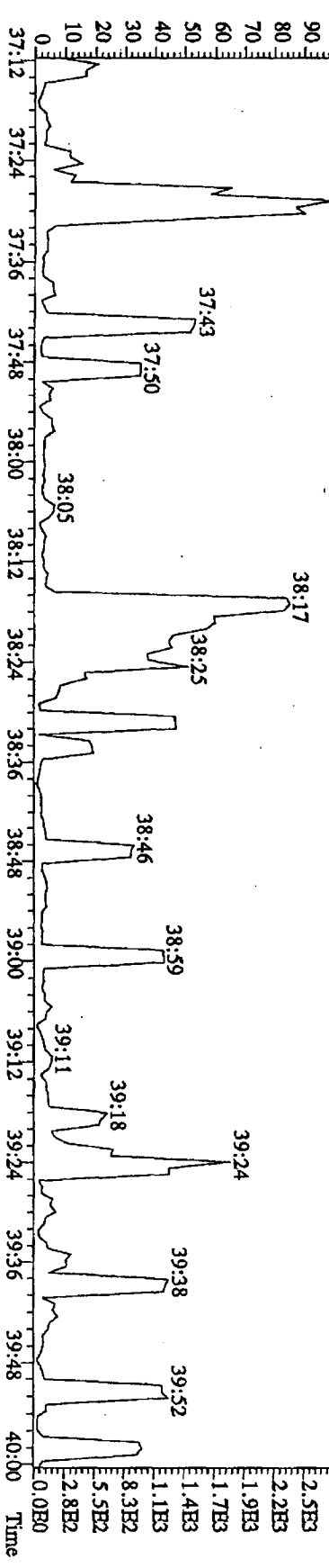
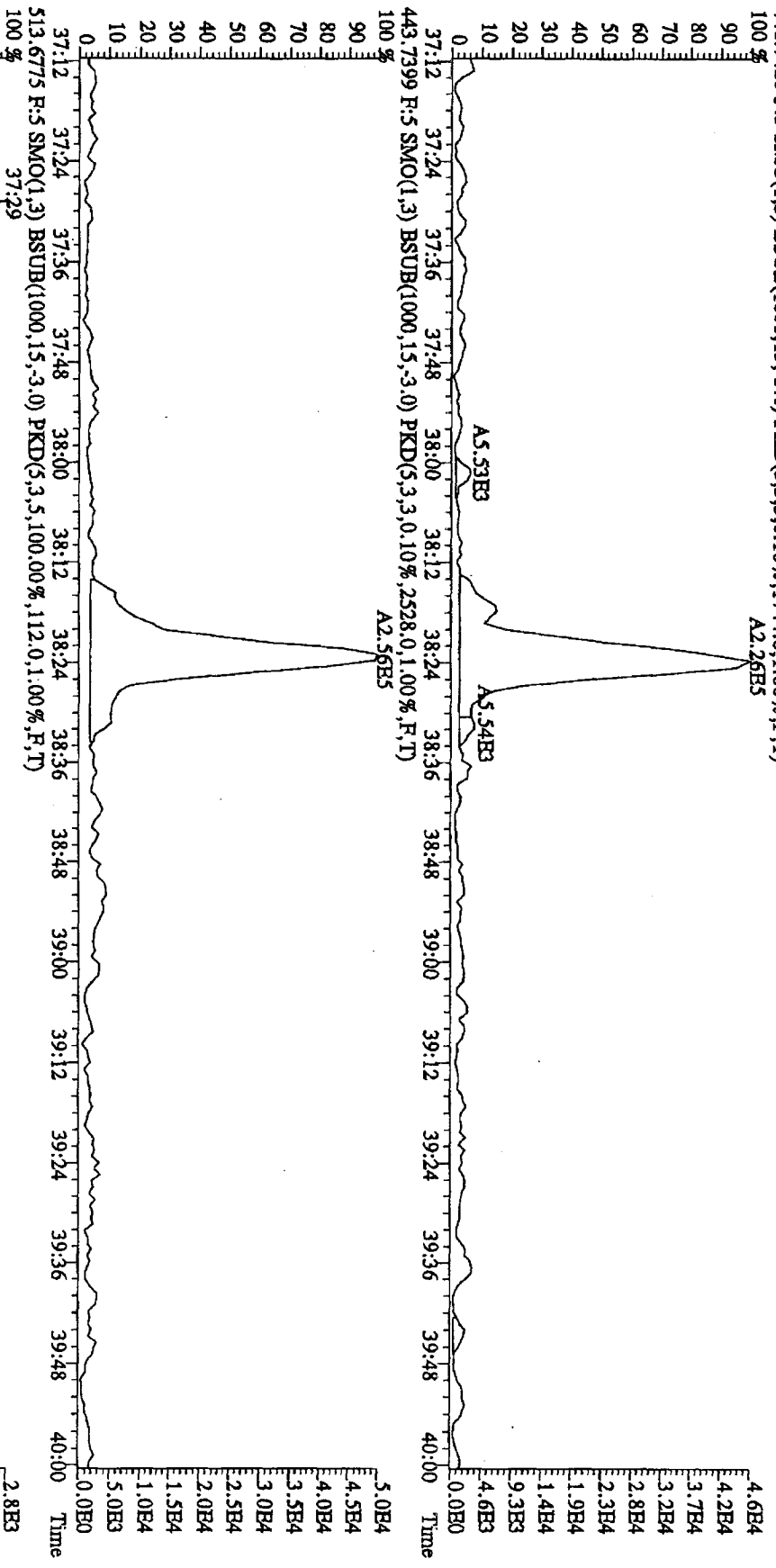


File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 14:32:55 GC RI+ Voltage SIR Autospec-UltimaB

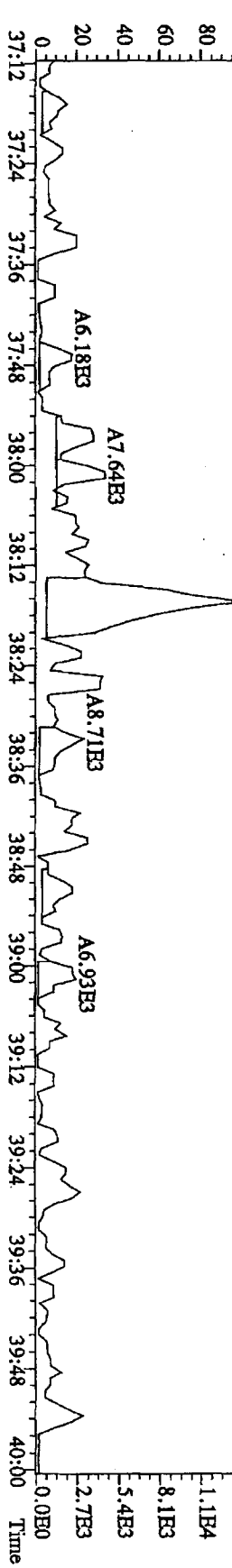
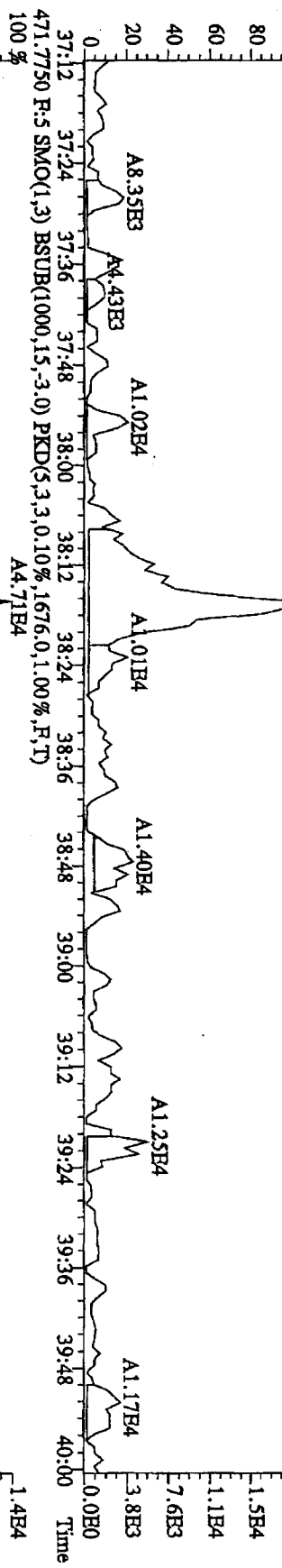
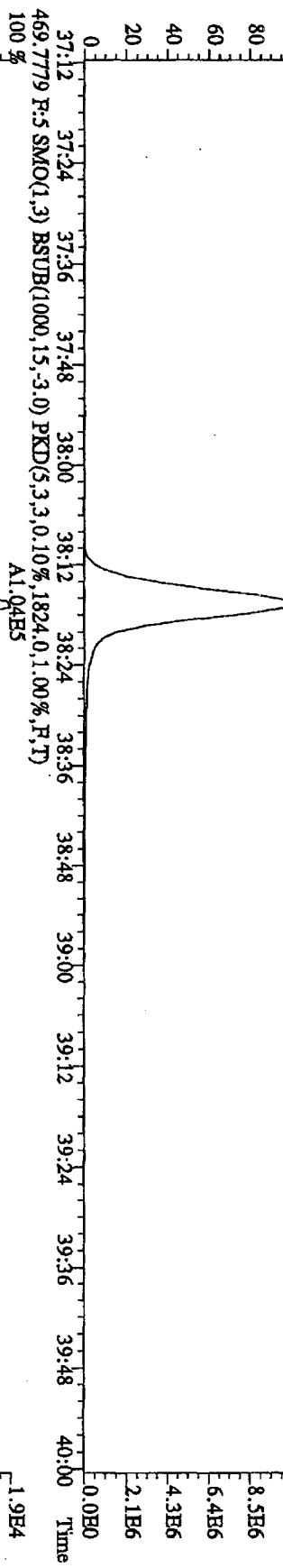
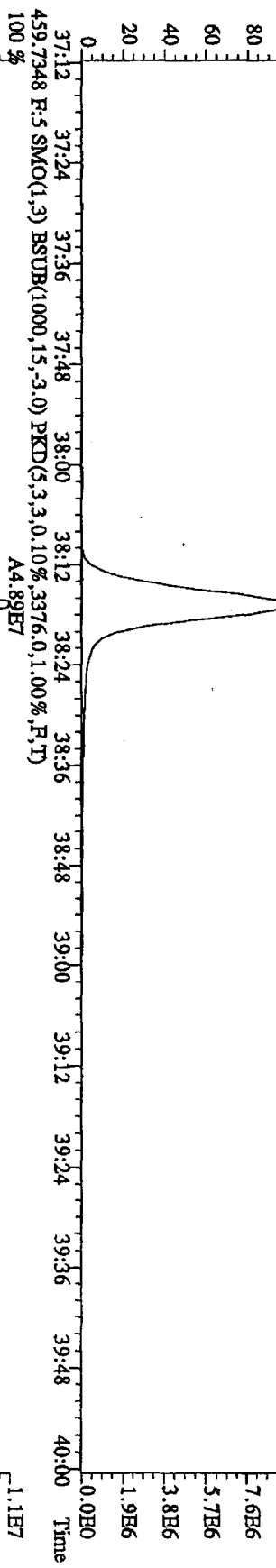
Sample#1 Text: CP0721 :DB-5 CPSM 3732-08 Exp: DIOXINES



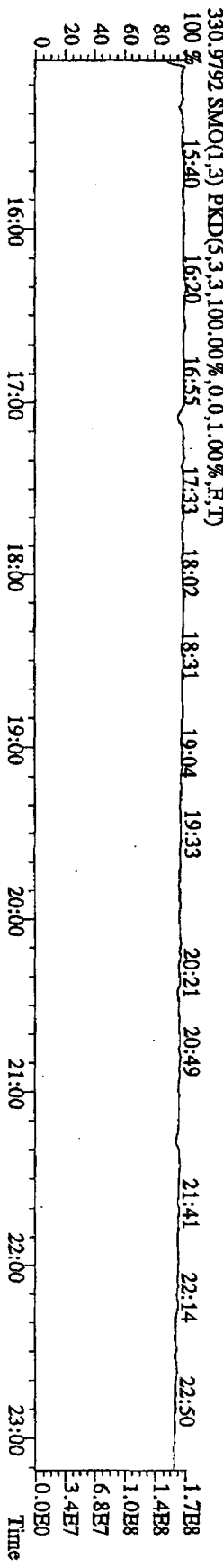
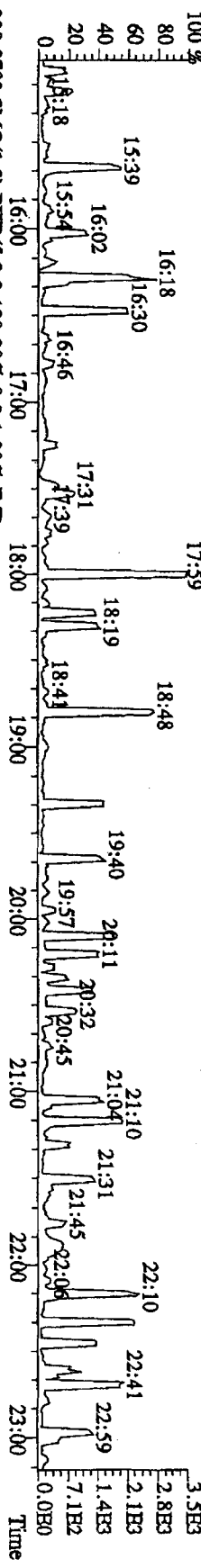
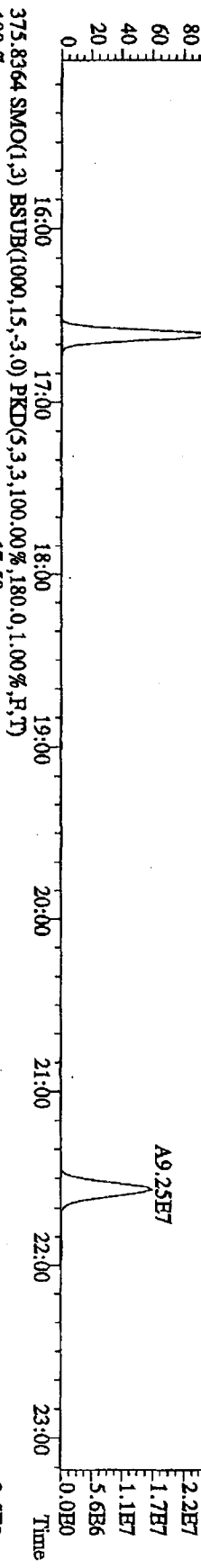
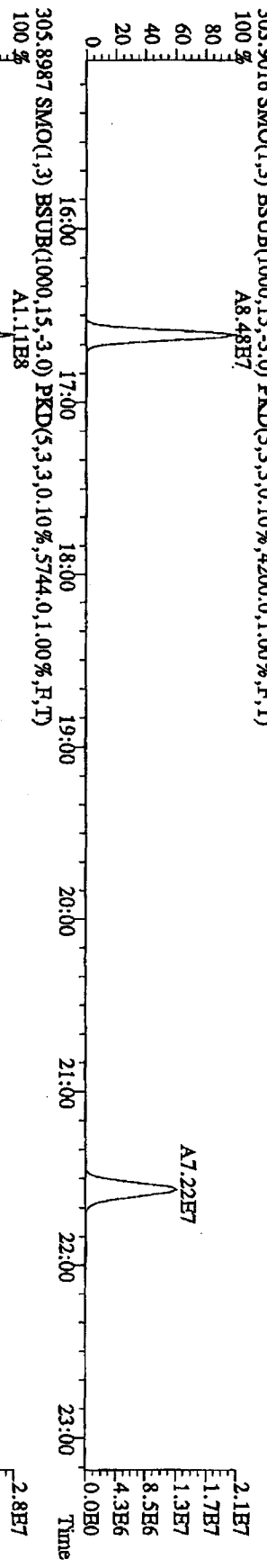
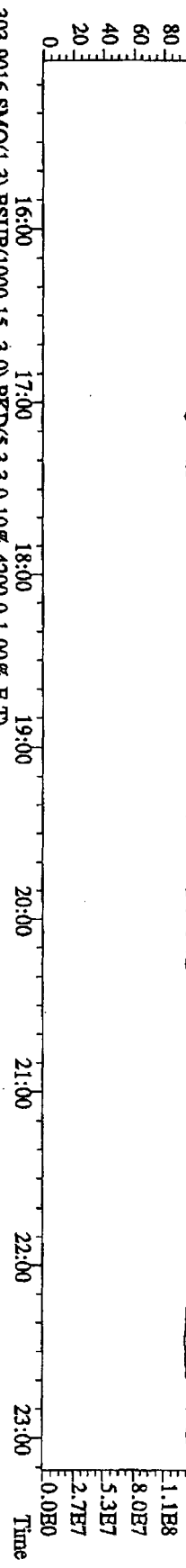
File: 21JUL10A4D5 #1-228 Acq: 21-JUL-2010 14:32:55 GC BI + Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0721 :DB-5 CPSM 3732-08 Exp: DIOXINRES
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)
 100%



File:211110A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0721 :DB-5 CFSM 3732-08 Exp:DIOXINRES
 457.7377 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,1592.0,1.00%,F,T) A4.36E7
 100 %



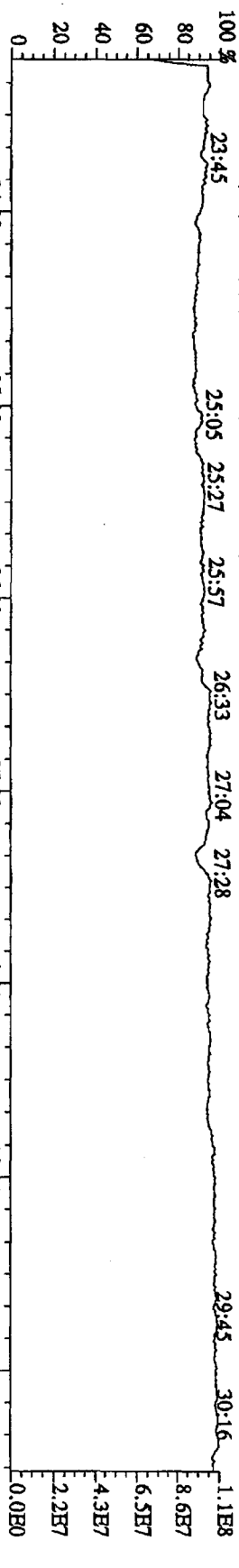
File: 21JL10A4DS #1-541 Acq: 21-JUL-2010 14:32:55 GC: EI + Voltage: SIR Autospec: Ultimate
 Sample#1 Text: CP0721 : DB-5 CPSM 3732-08 Exp: DIOXINRES
 292.9825 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
 100% 15:16 17:11 17:42 18:16 20:08 20:43 21:33 22:42



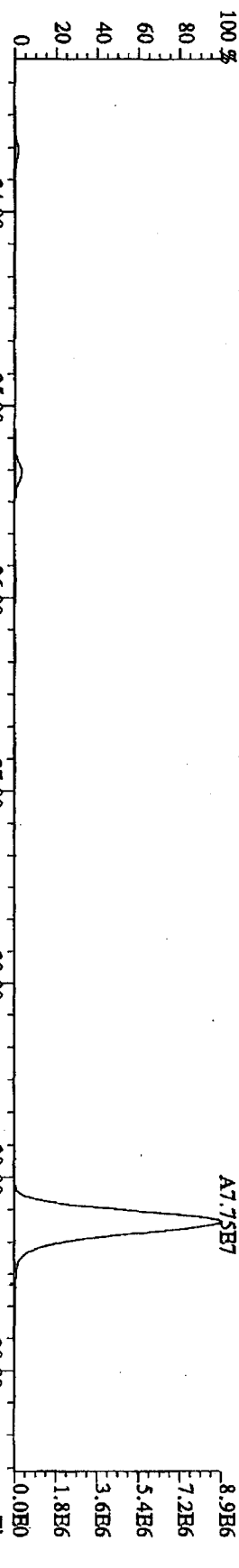
File:211110A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC:EI+ Voltage:518 Autospec-UltimaB

Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

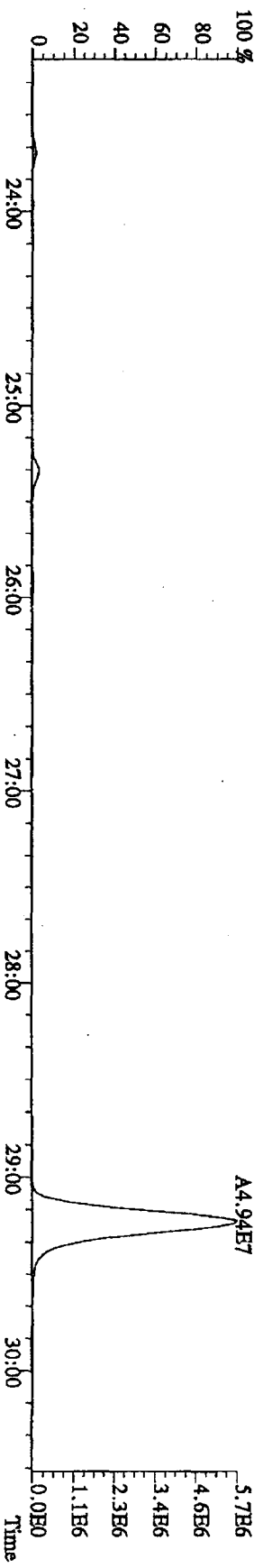
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



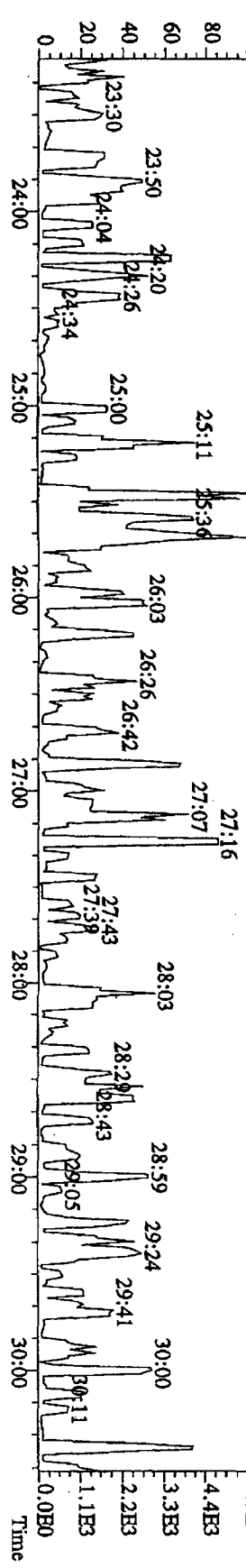
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2832,0,1.00%,F,T)



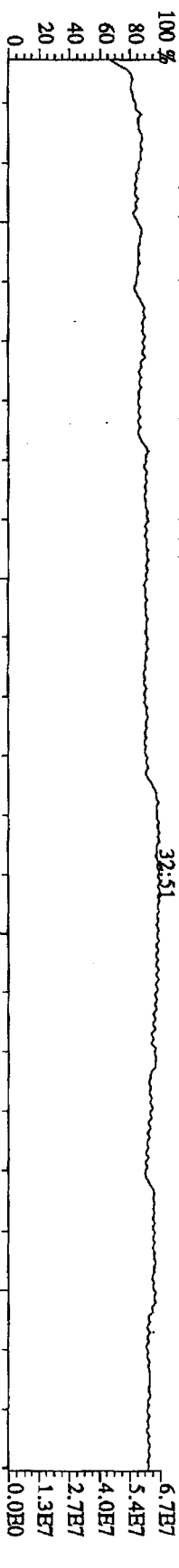
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3324,0,1.00%,F,T)



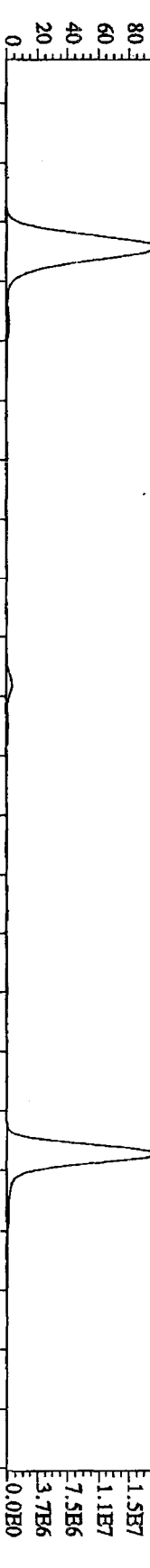
409.7974 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,160,0,1.00%,F,T)



File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0721 :DB-5 CPSM 3732-08 Exp: DIOXINRES
 392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



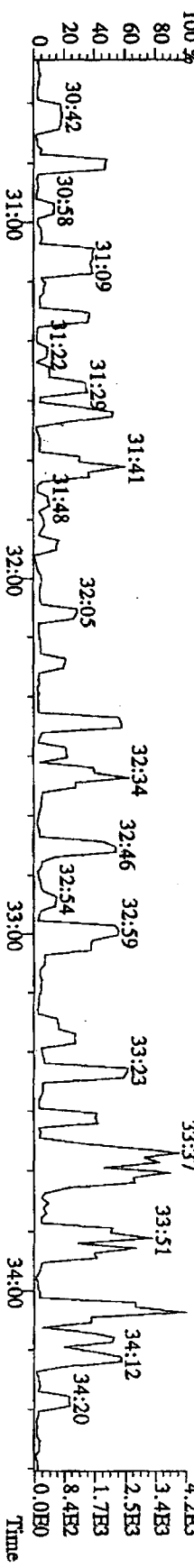
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14964,0.1,0.0%,F,T)
 100% A9.20E7



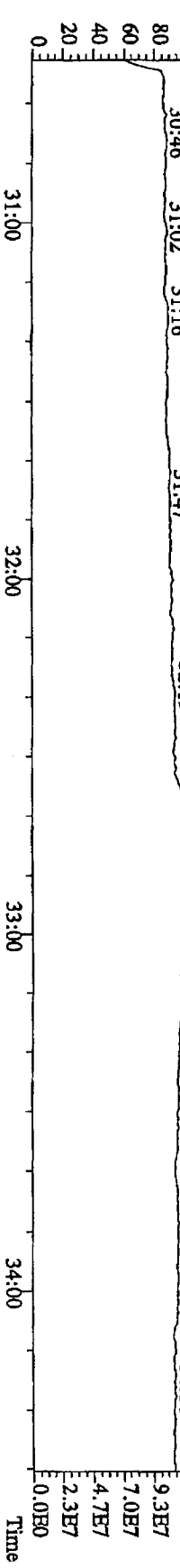
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10284,0.1,0.0%,F,T)
 100% A7.83E7



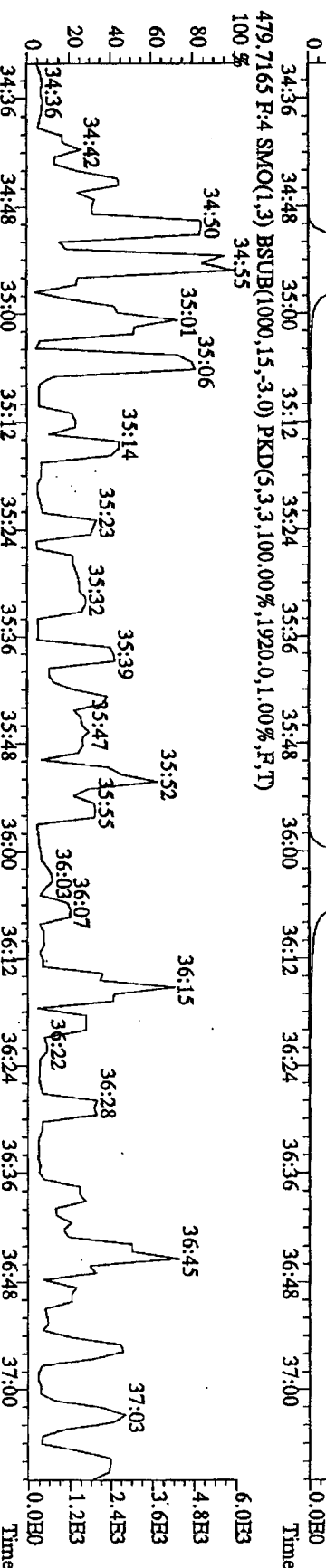
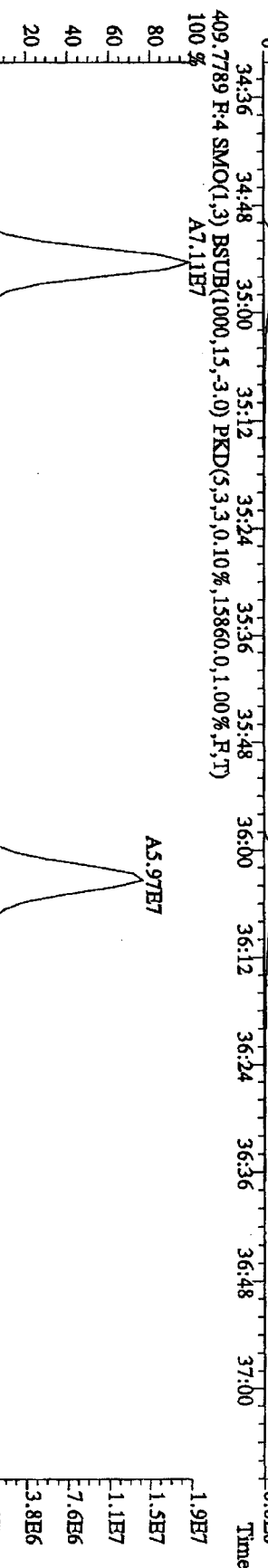
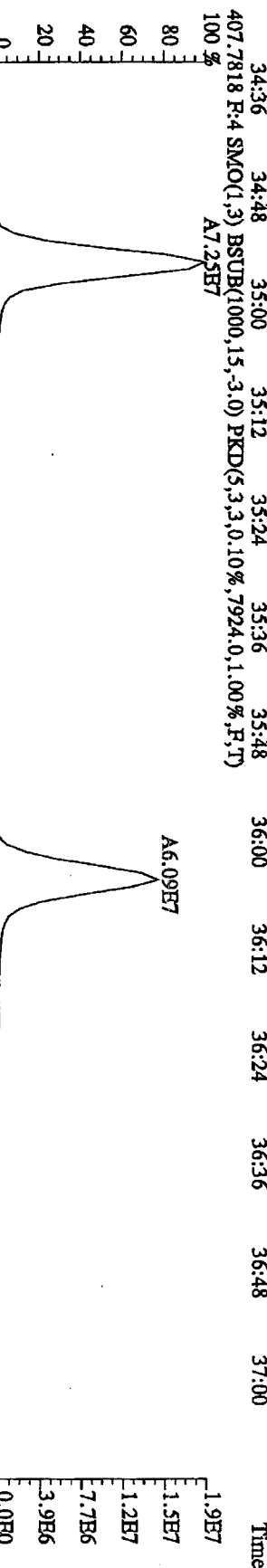
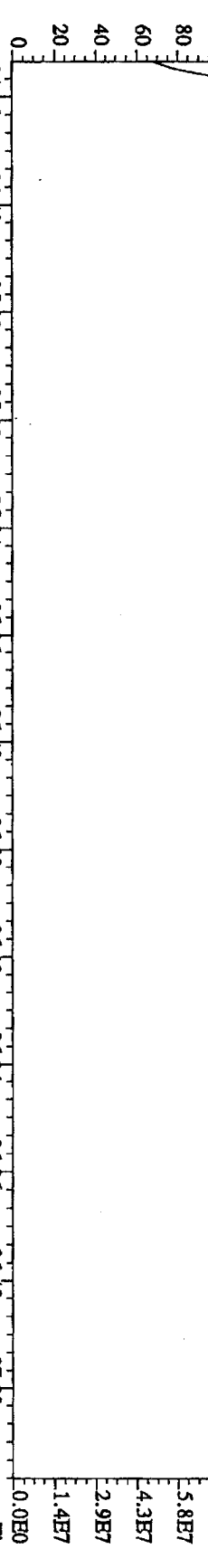
445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,192,0.1,0.0%,F,T)
 100%



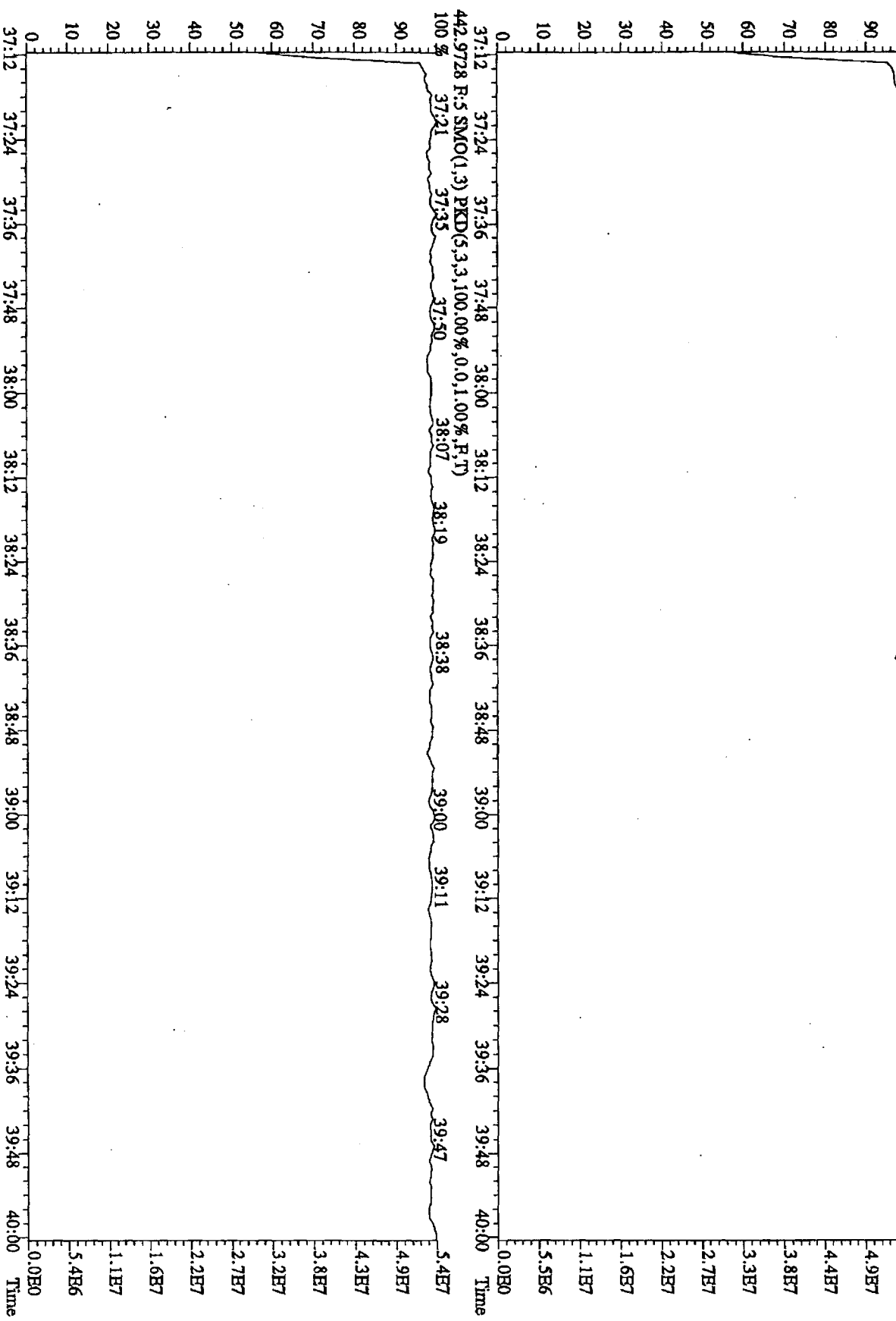
380.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100%



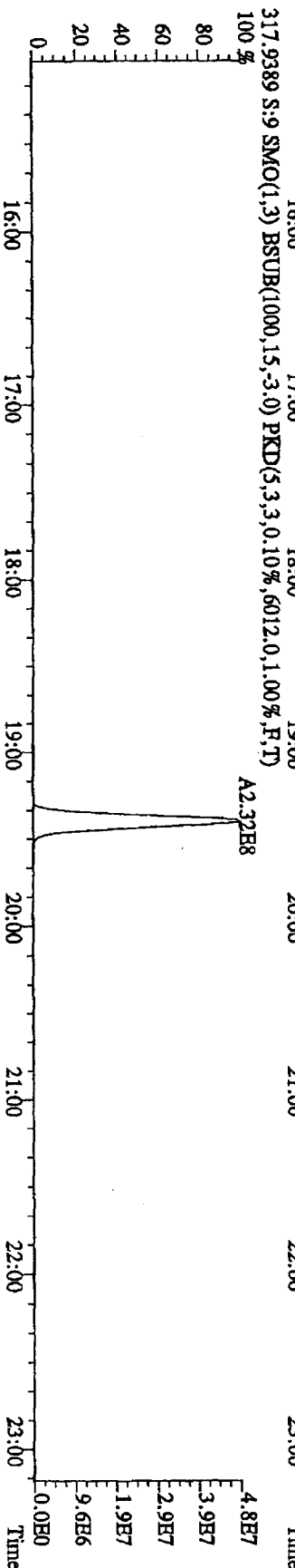
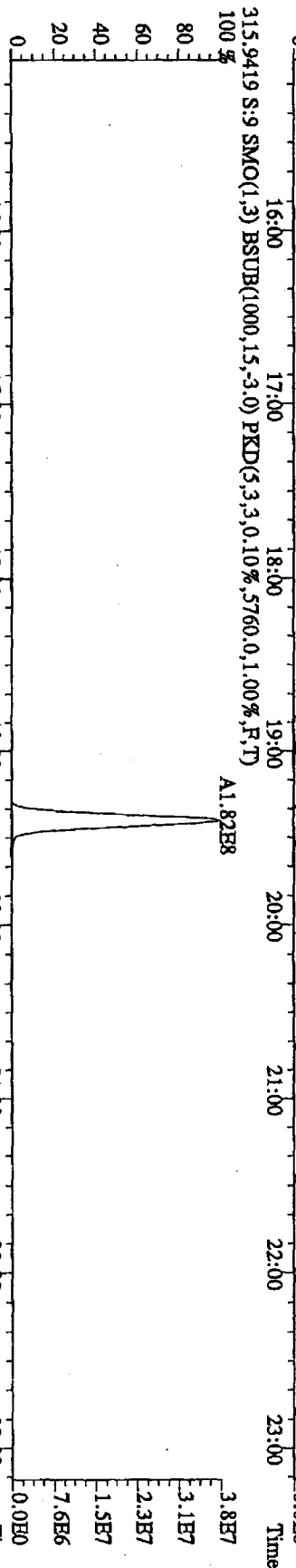
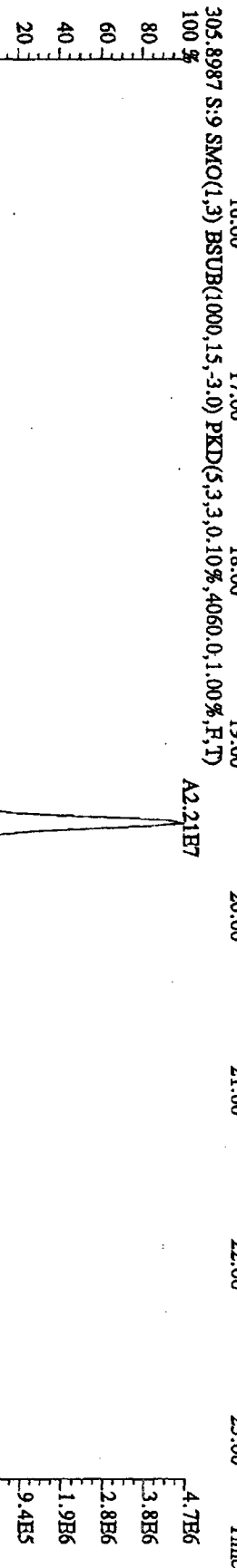
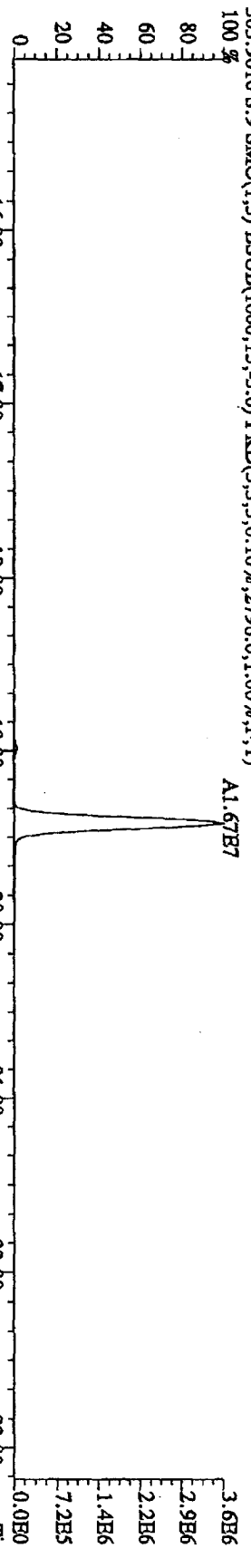
File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 14:32:55 GC HI + Voltage SIR Autospec-UltimaR
 Sample #1 Text: CP0721 :DB-5 CP5M 3732-08 Exp: DIOXINRES
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 #34.36 35:13 35:26 35:44 35:55 36:14 36:22 36:40 36:51 37:01



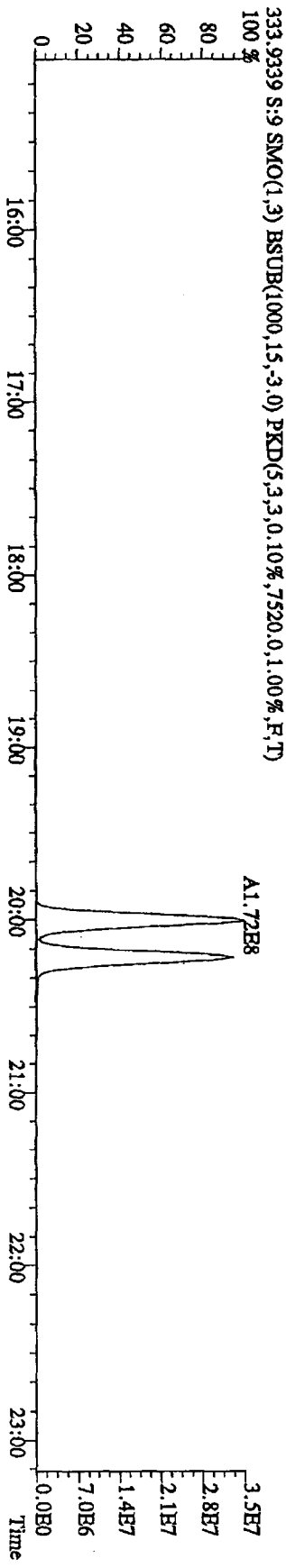
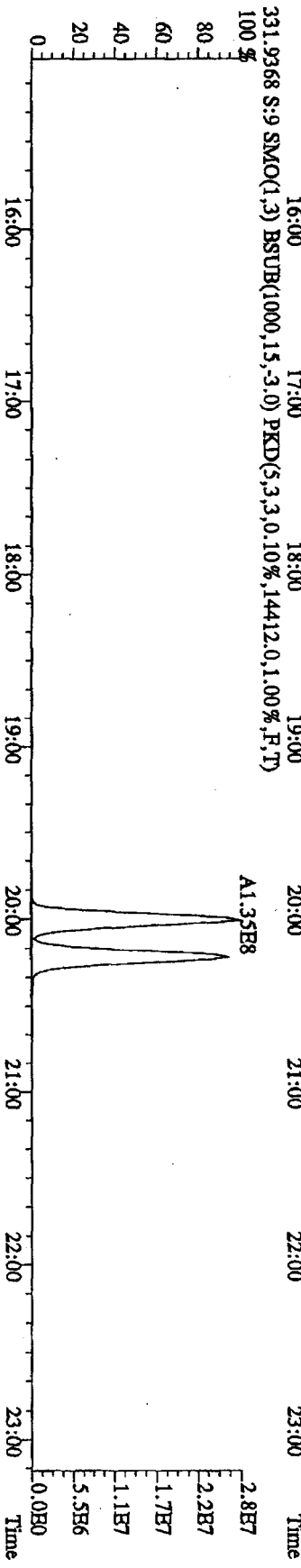
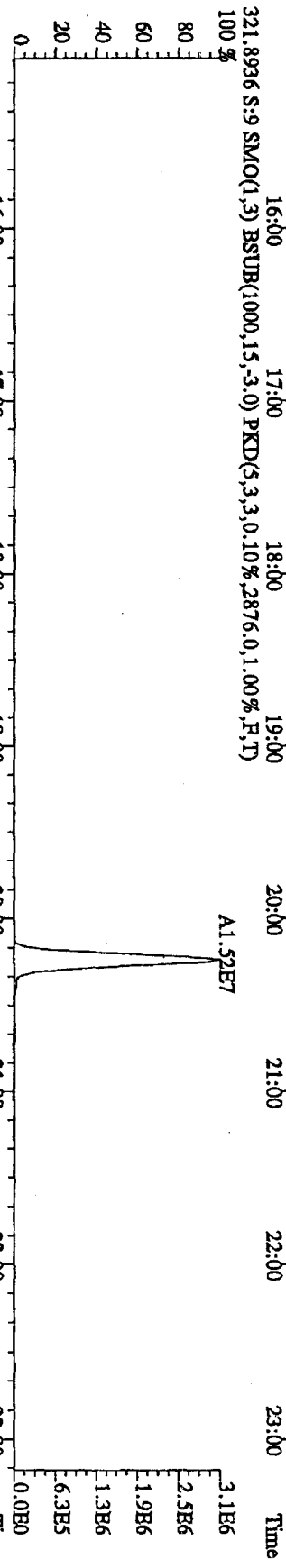
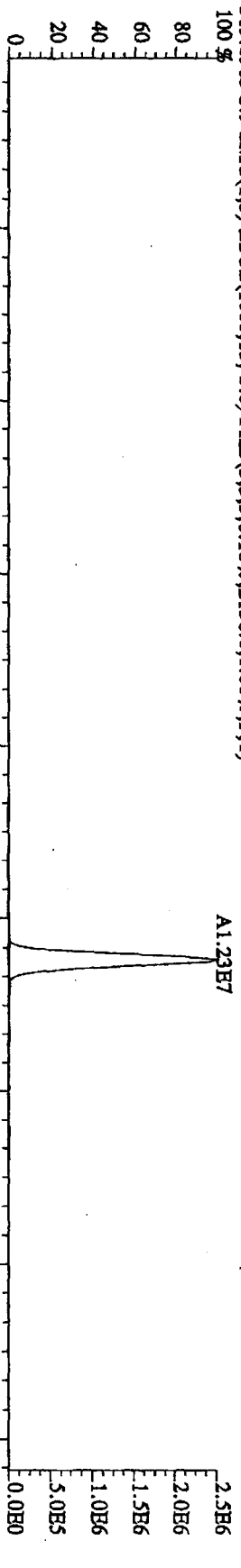
File: 211L10A4D5 #1-228 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage SFR Autospec-Ultimate
 Sample#1 Text: CP0721 : DB-5 CPSM 3732-08 Exp: DIOXINRBS
 454.9728 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 37:21 37:31 37:42 37:53 38:13 38:25 38:33 38:54 39:12 39:28 39:42



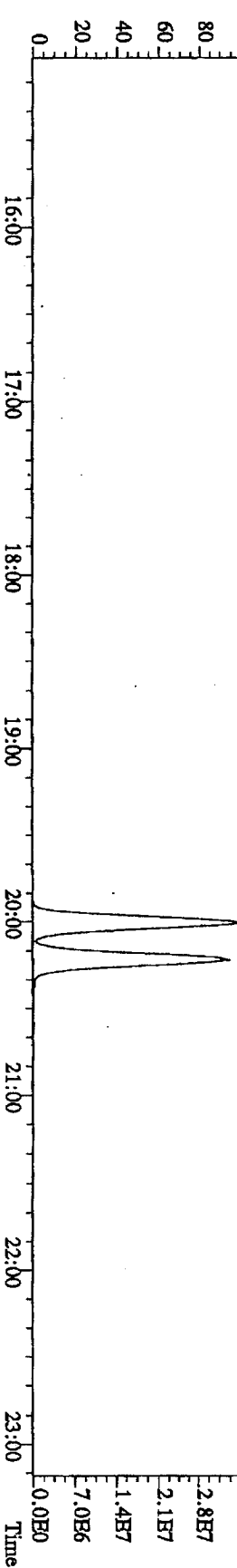
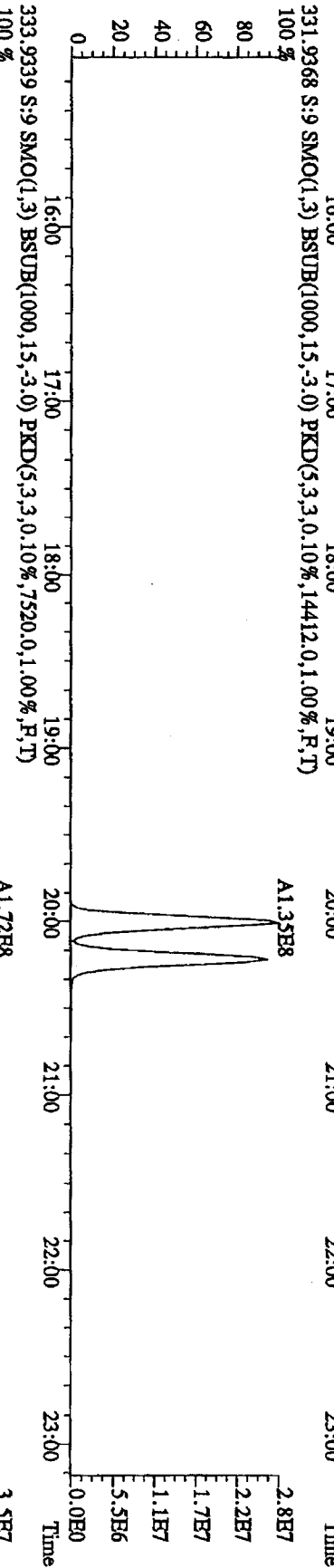
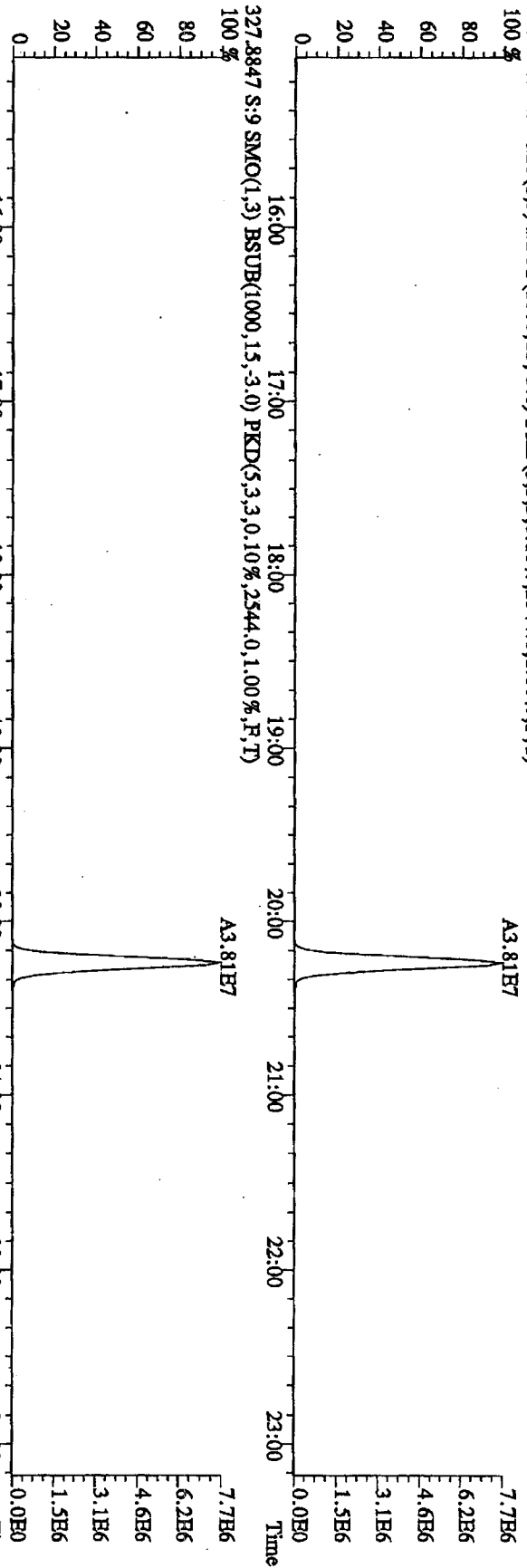
File:21110A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-Divina
 Sample#9 Text:ST0721F 2nd Source 10DXN340 Exp:DI0XINRES
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2796,0,1,00%,F,T) 100%



File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC RI + Voltage SIR Autospec-UltimaB
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2156,0.1,0.0%,F,T)

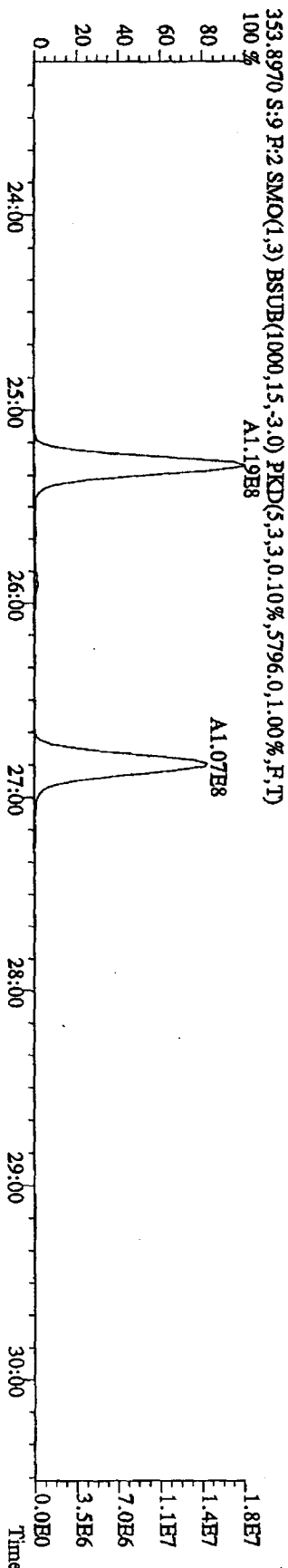
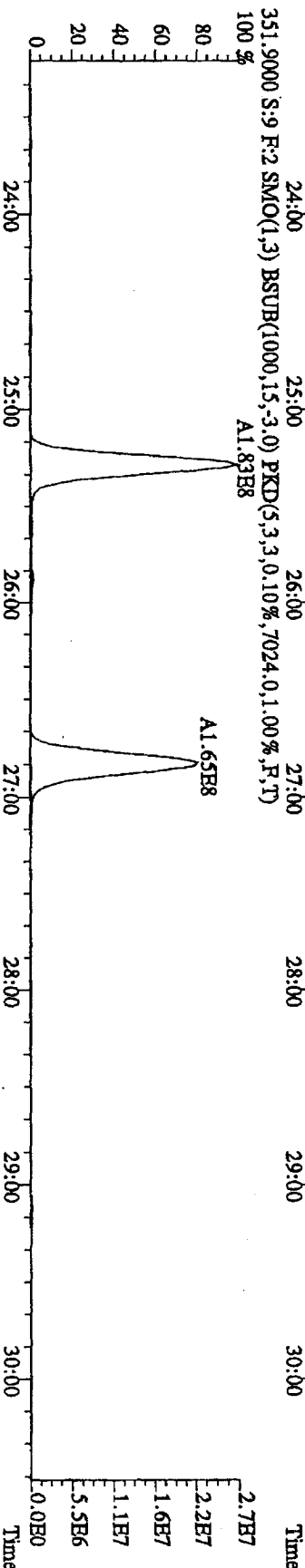
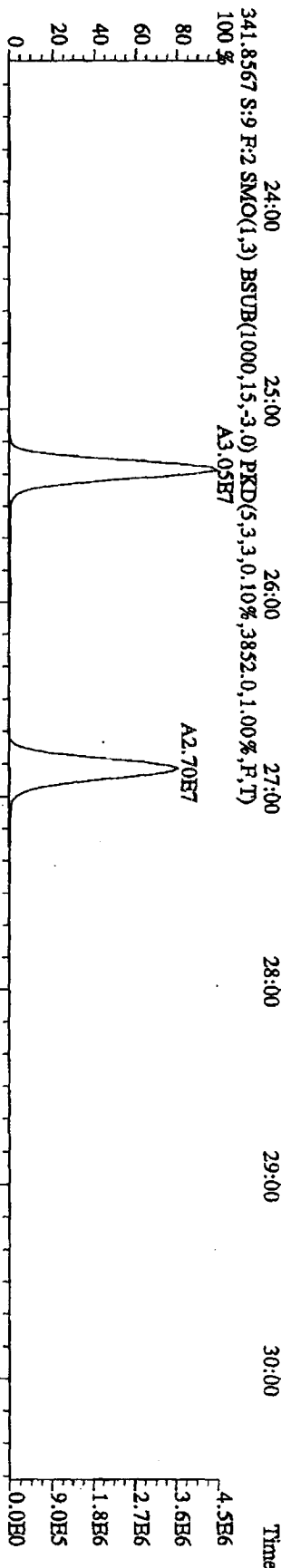
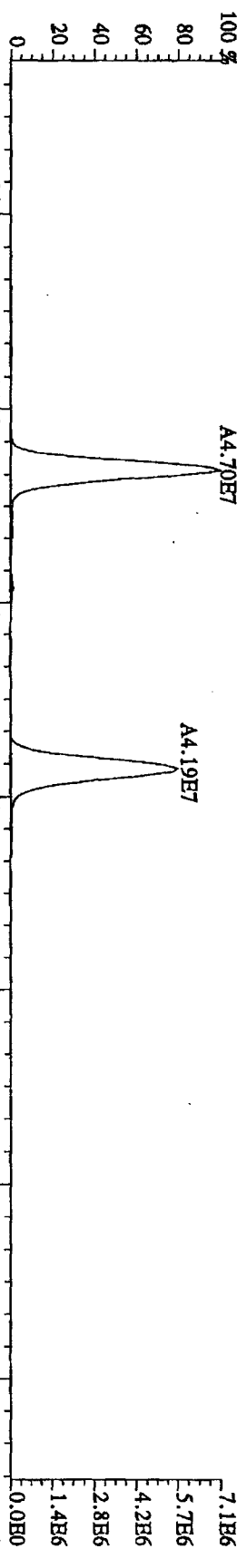


File:2111.10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text:ST0721F 2nd Source 10DXN340 Exp:DIOXINRES
 327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544,0,1.00%,F,T)
 100%

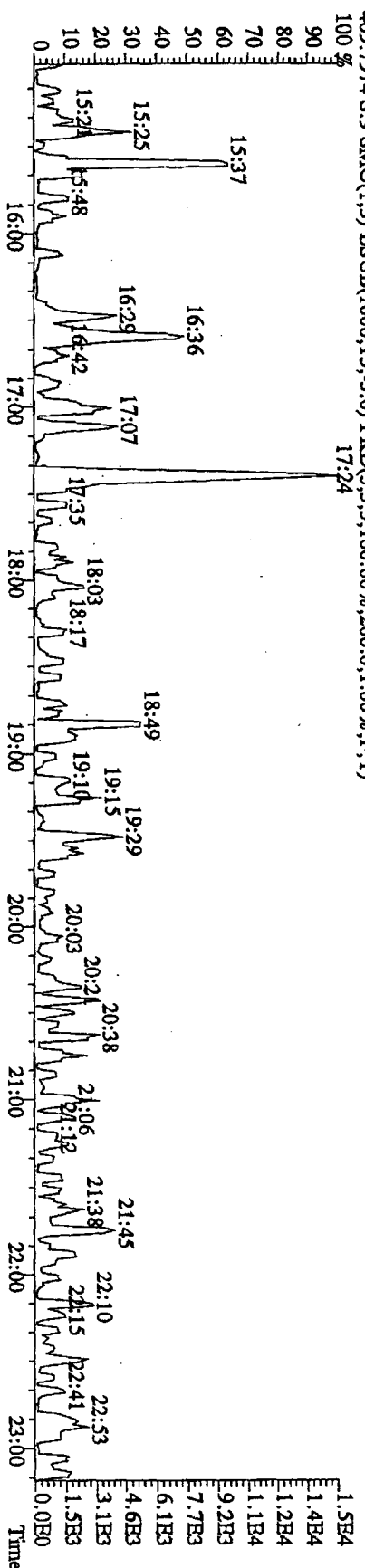
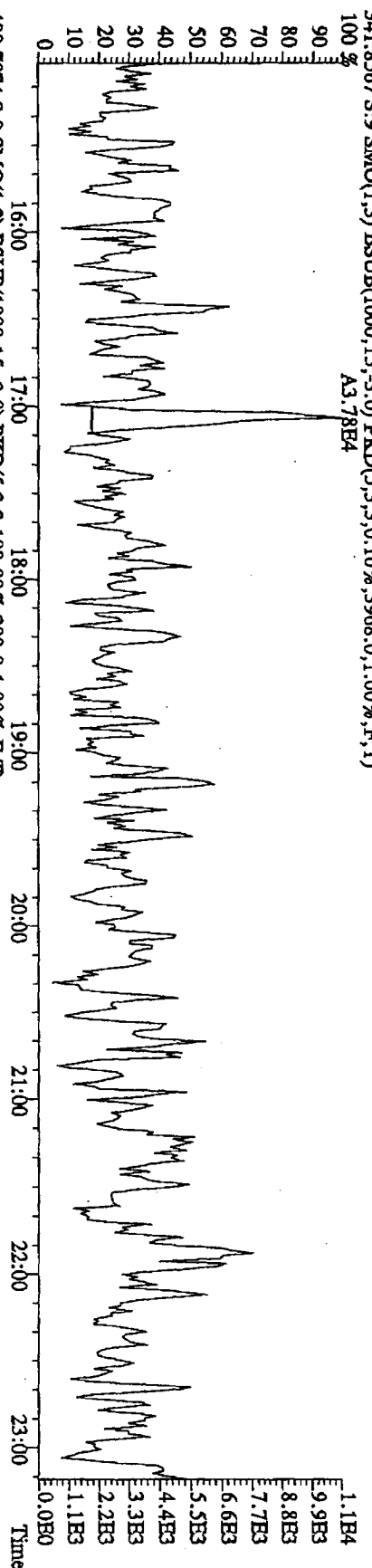
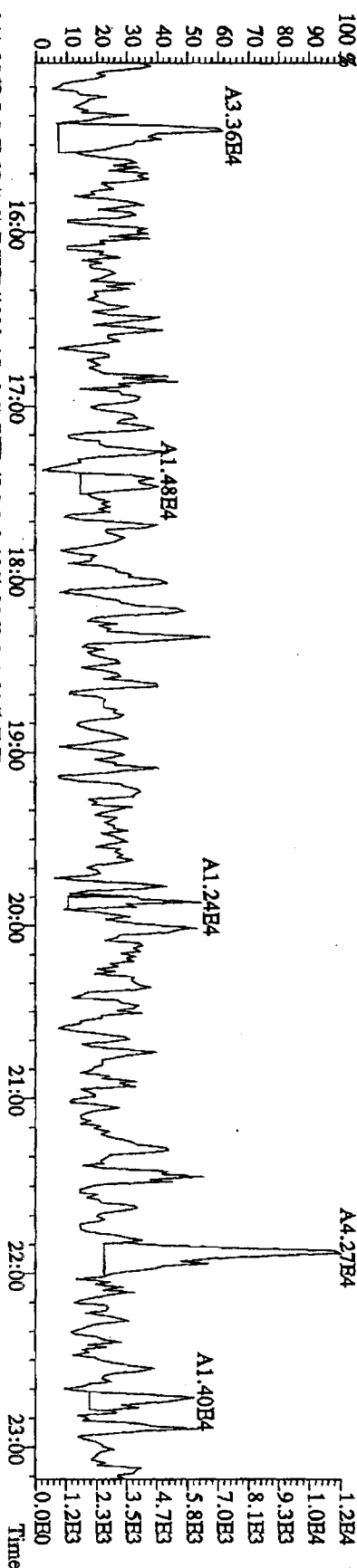


File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-Ultimate

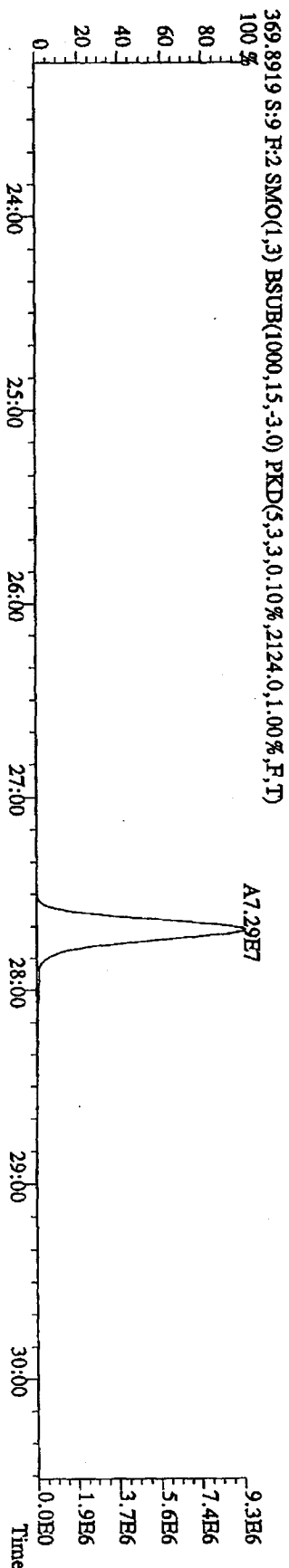
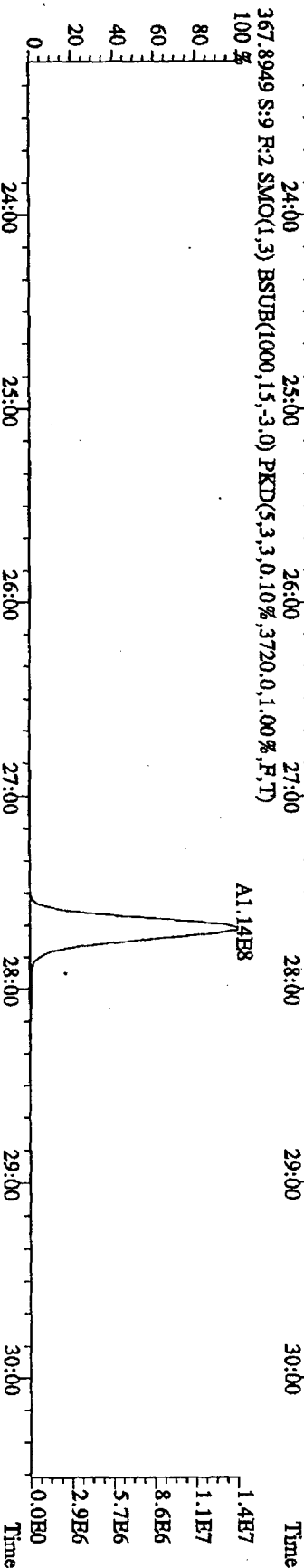
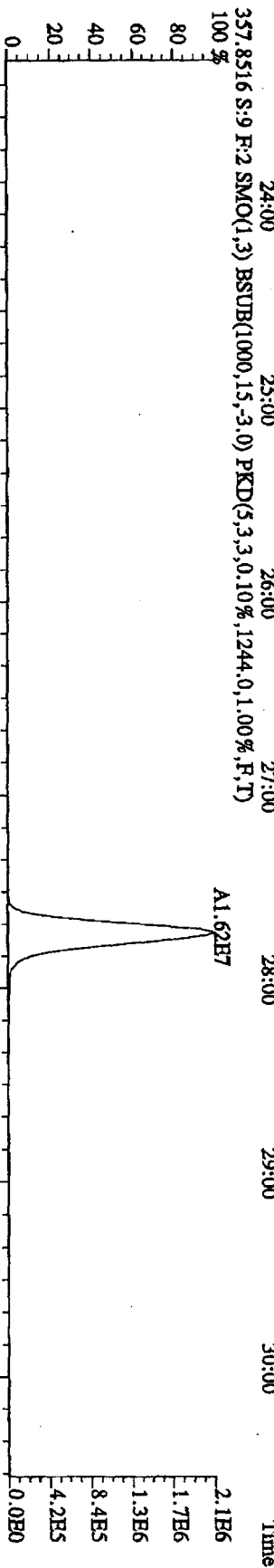
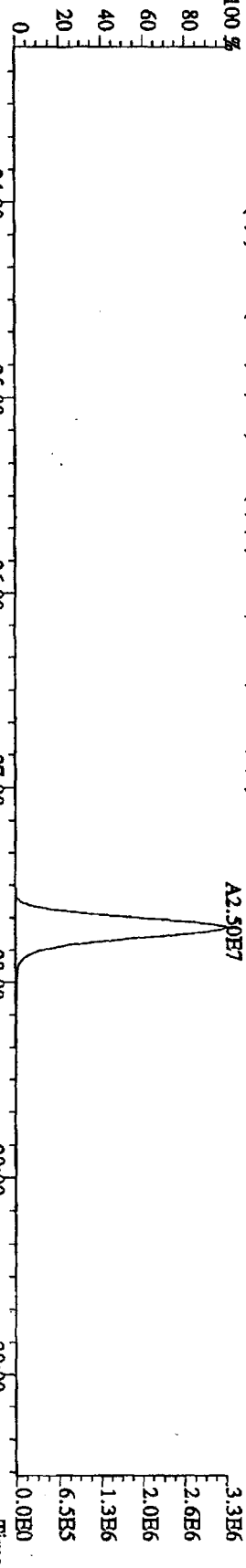
Sample#9 Text: ST0721F 2nd Source 10DDXN340 Exp: DIOXINRES



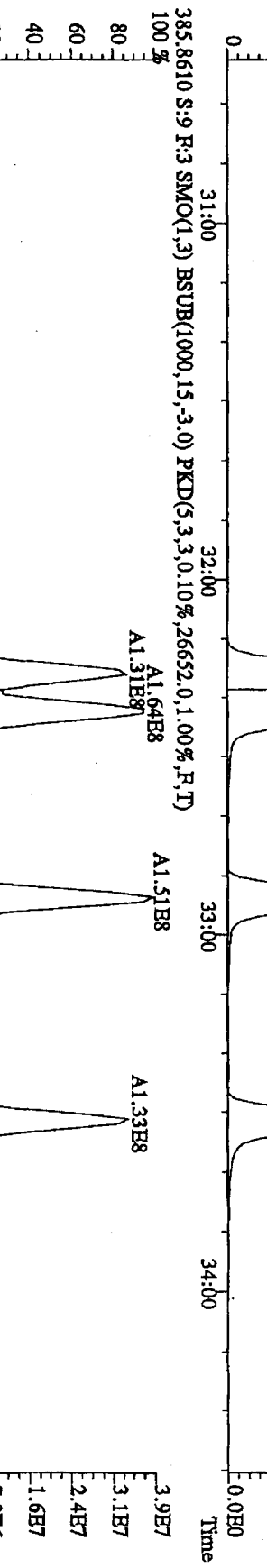
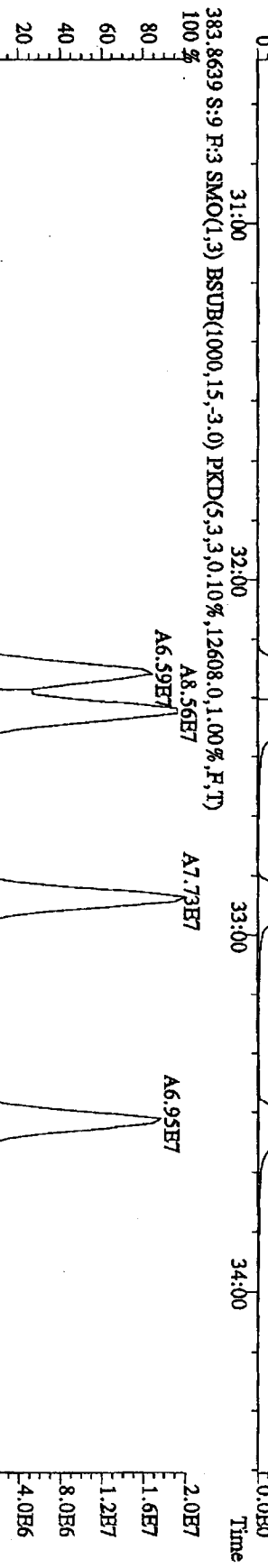
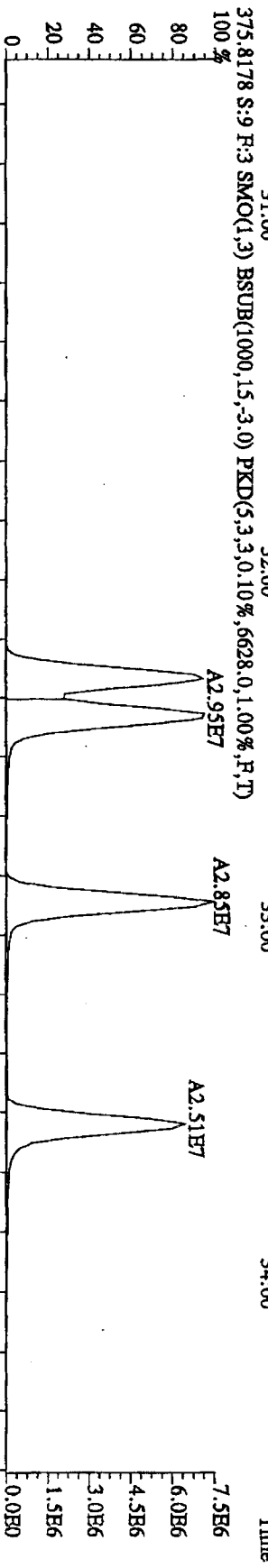
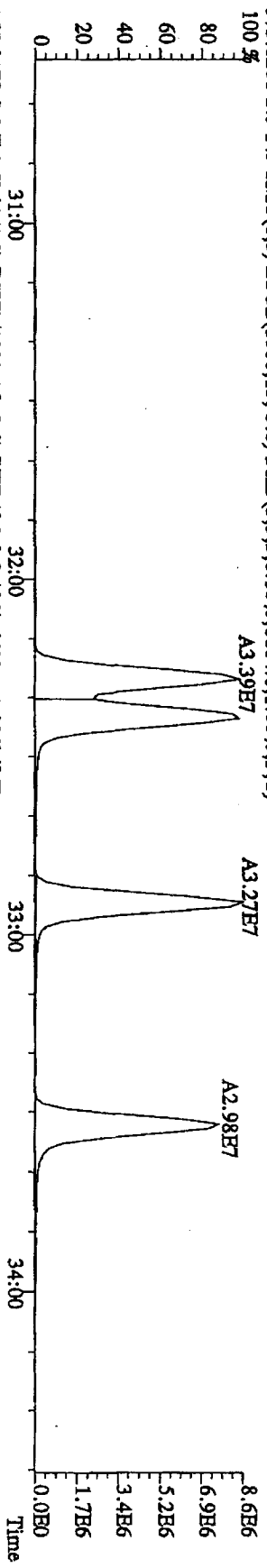
File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-UltimaB
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES
 339.8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3720,0,1.00%,F,T)



File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-UltimaB
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
 355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3228,0,1,00%,F,T)



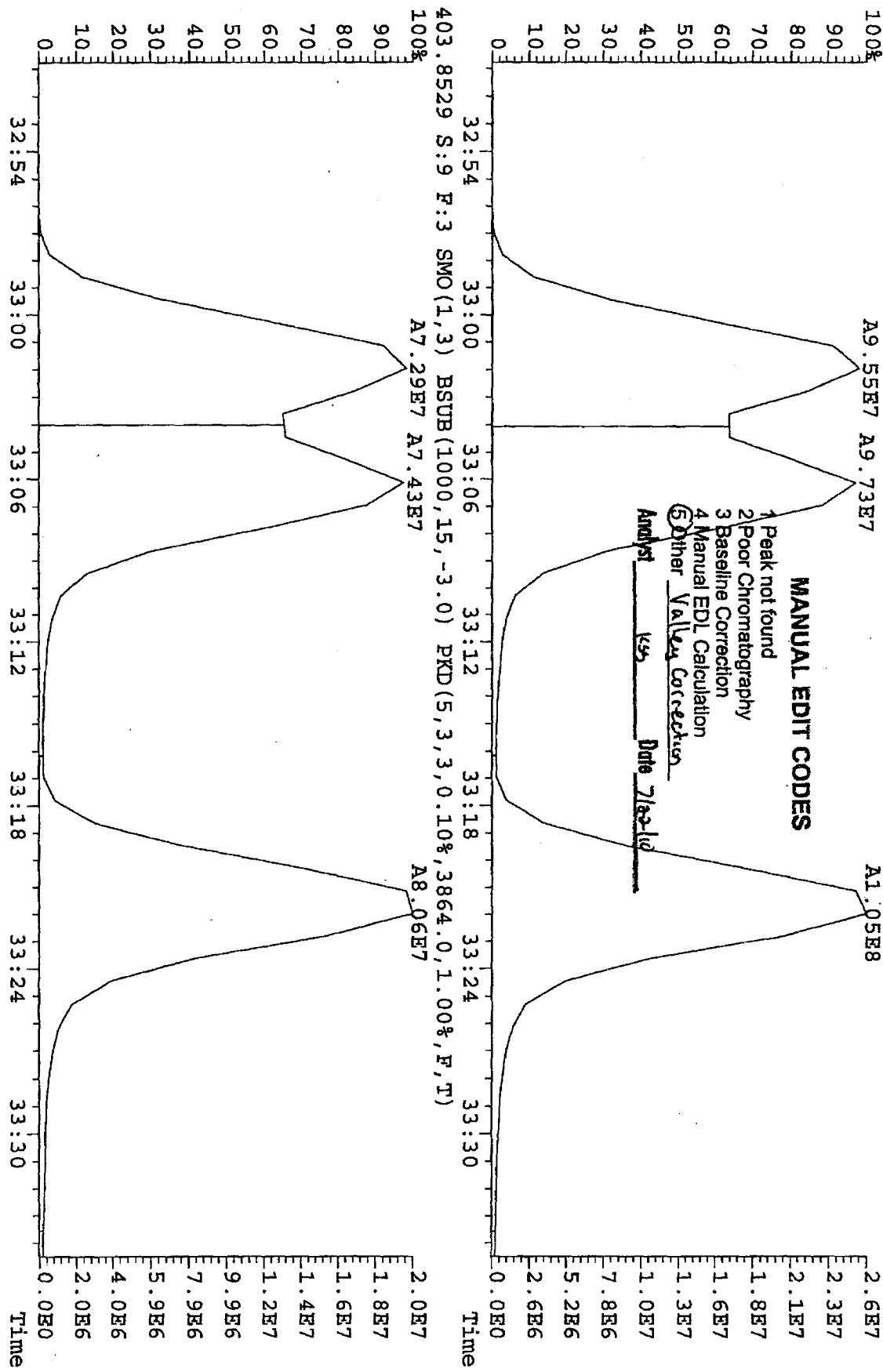
File: 21IL10A4D5 #1-286 Acq: 21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-Ultimate
 Sample#9 Text: ST0721F 2nd Source 10DXN340 Exp: DIOXINRES
 373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664,0.1,00%,F,T)



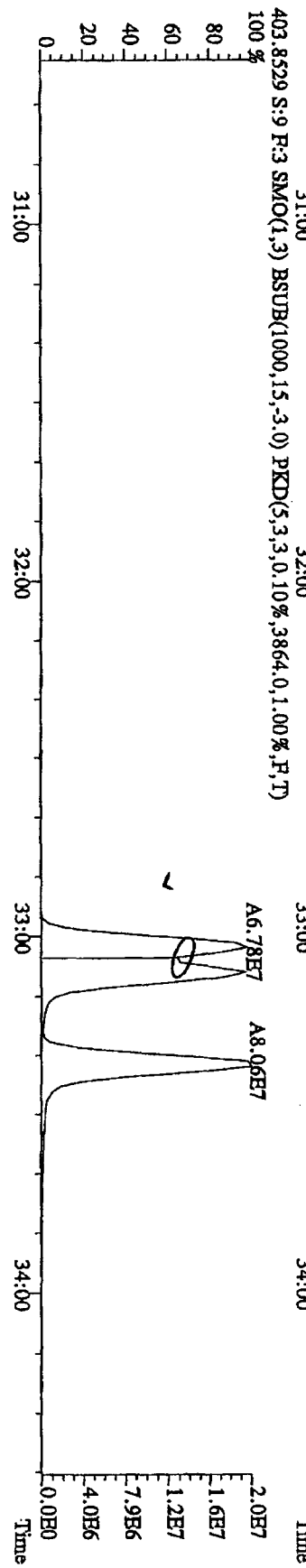
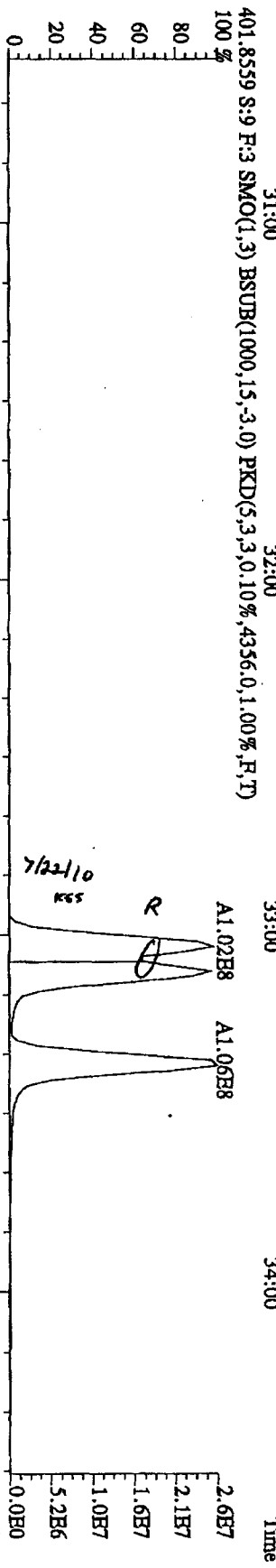
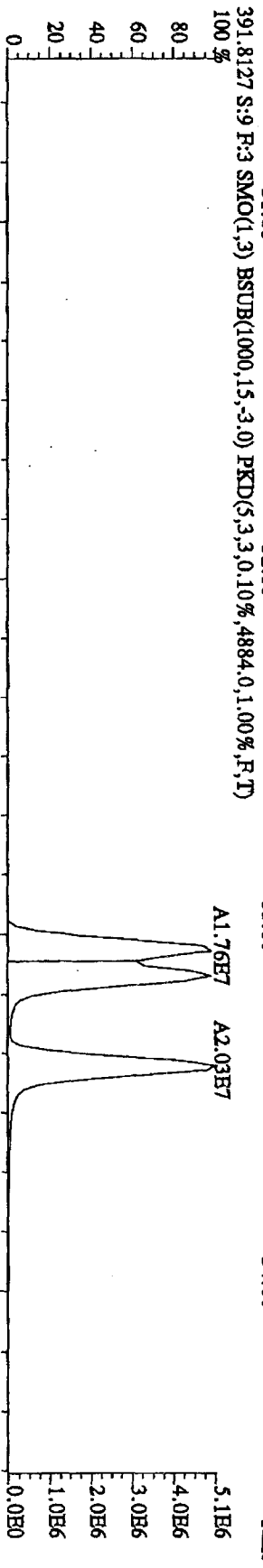
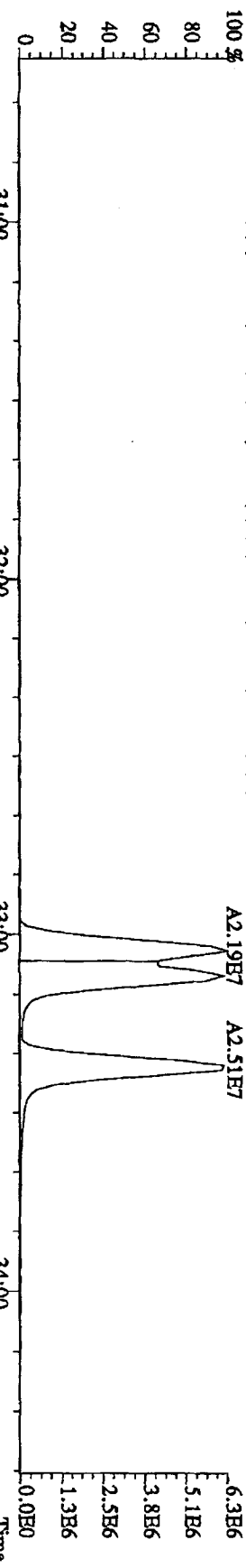
File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES
 401.8559 S: 9 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4356.0,1.00%,F,T)
 100% A9.55E7 A9.73E7 A1.05E8

MANUAL EDIT CODES

- 1 Peak not found
 - 2 Poor Chromatography
 - 3 Baseline Correction
 - 4 Manual EDL Calculation
 - 5 Other Valley Correction
- Analyst KY Date 7/22/10

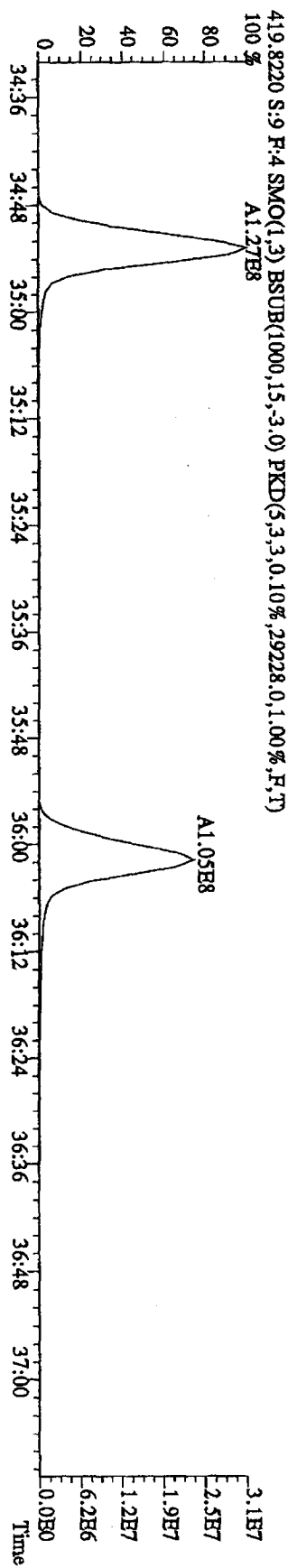
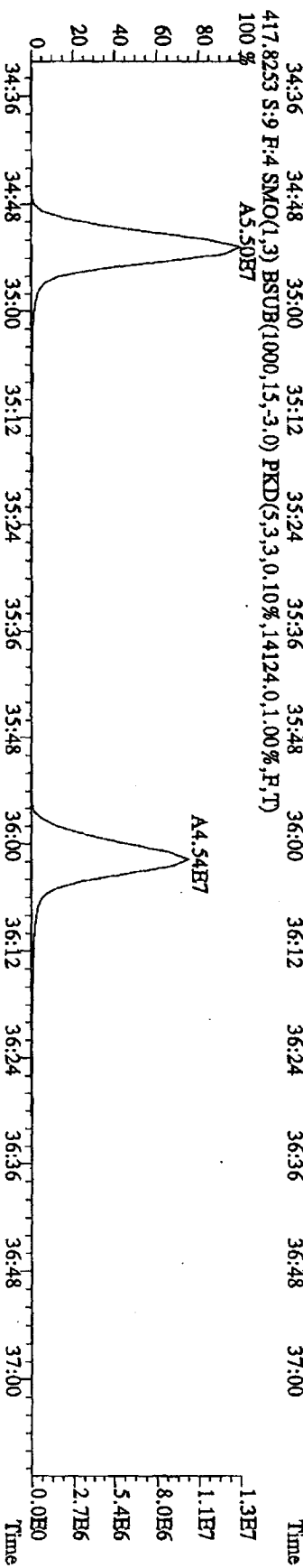
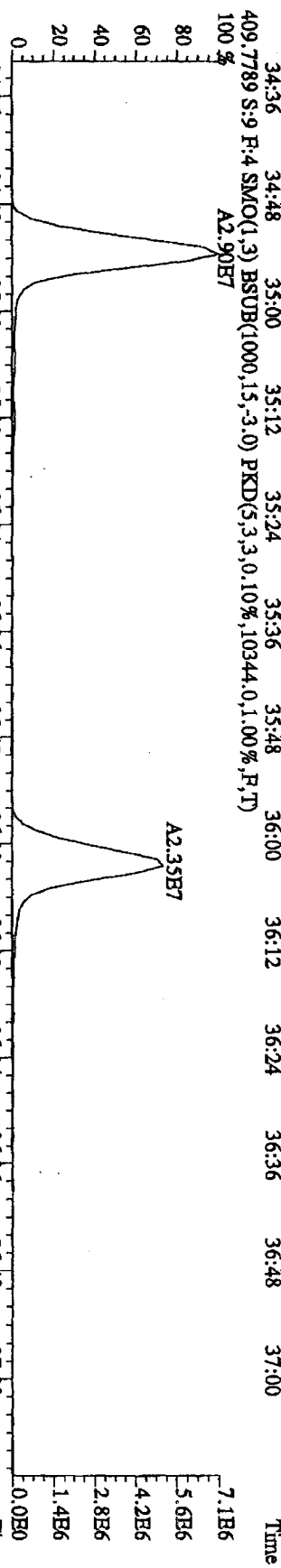
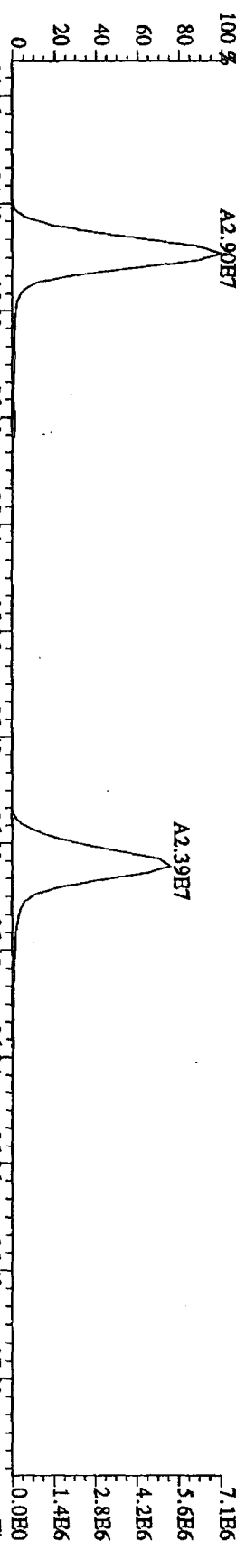


File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3468,0,1,00%,F,T) 100%

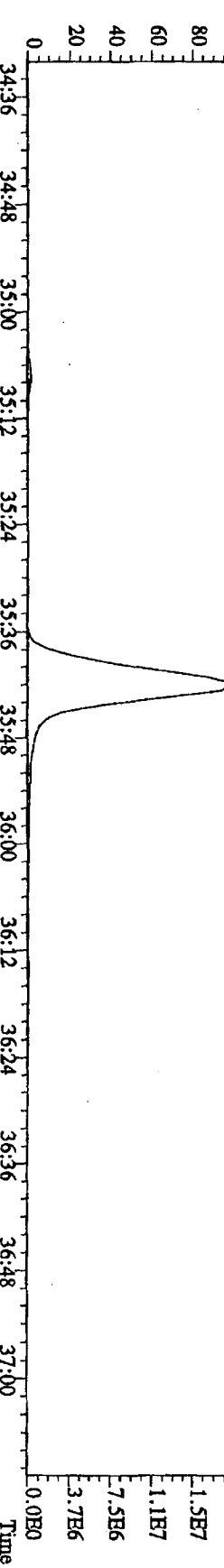
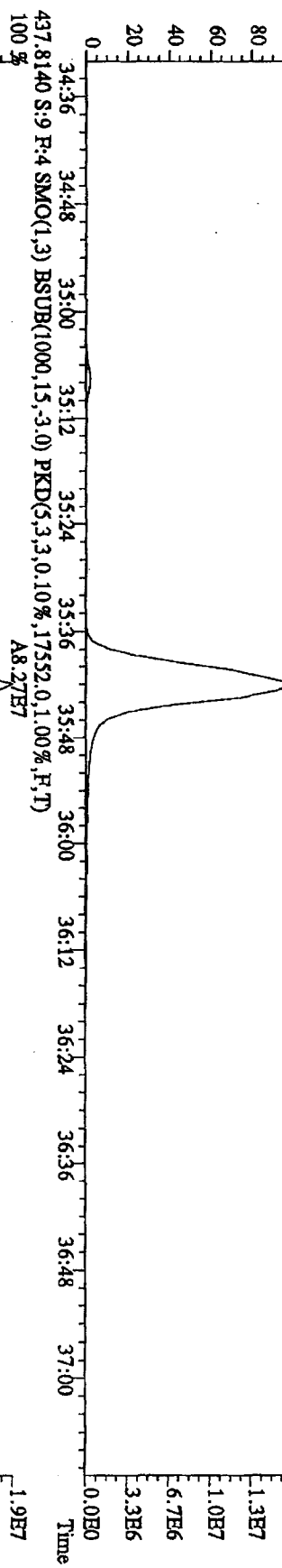
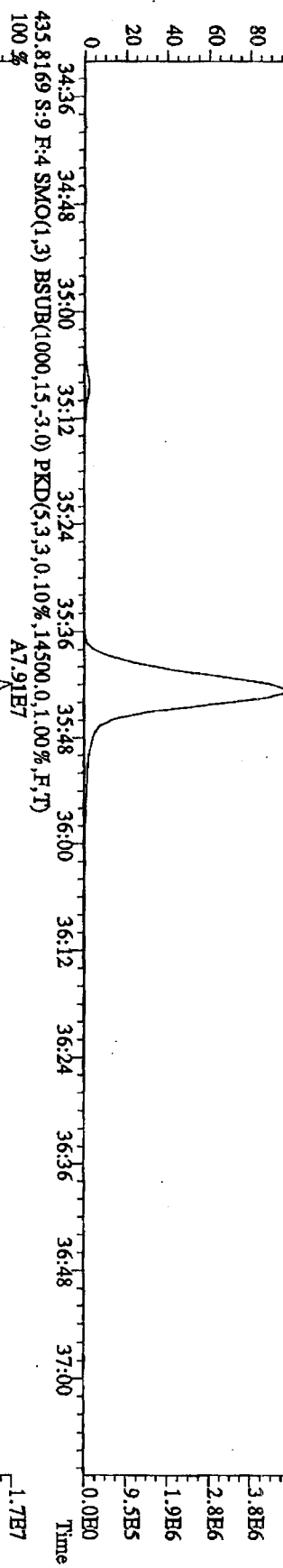
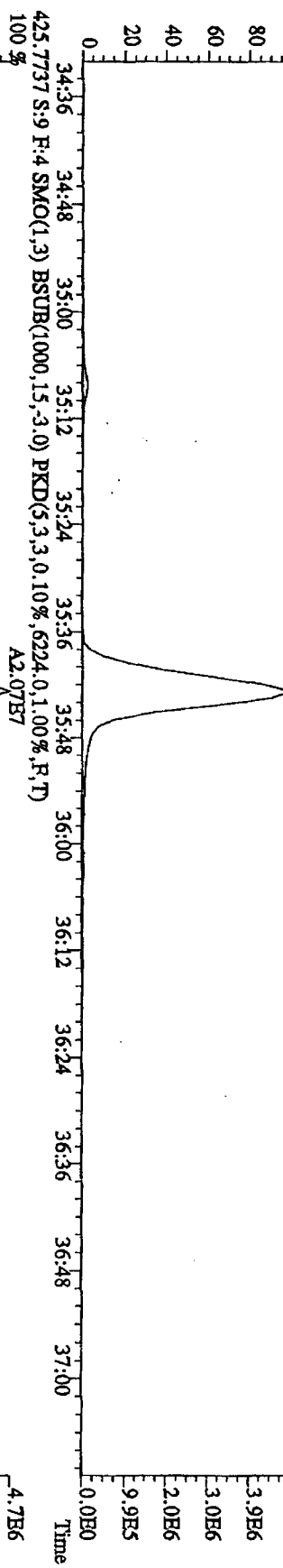


File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage: 57V Autospec-UltimaB

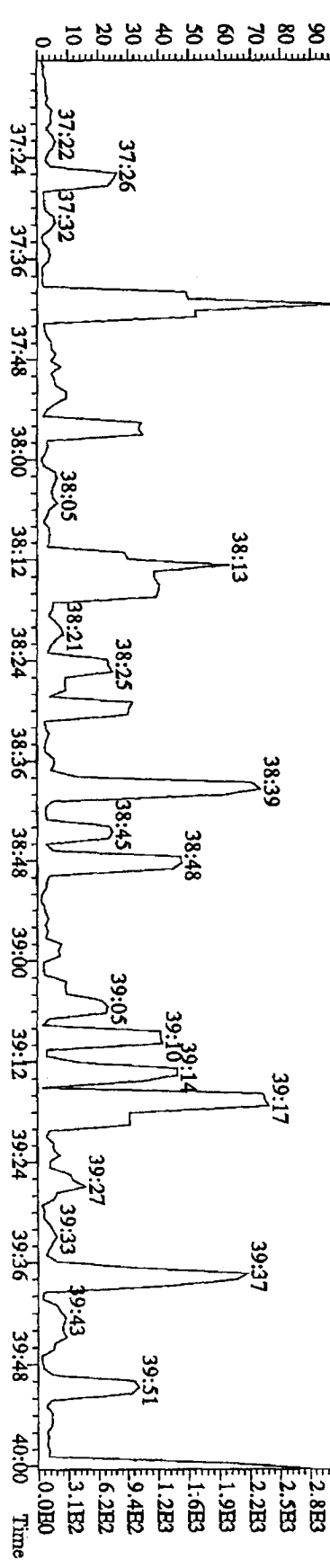
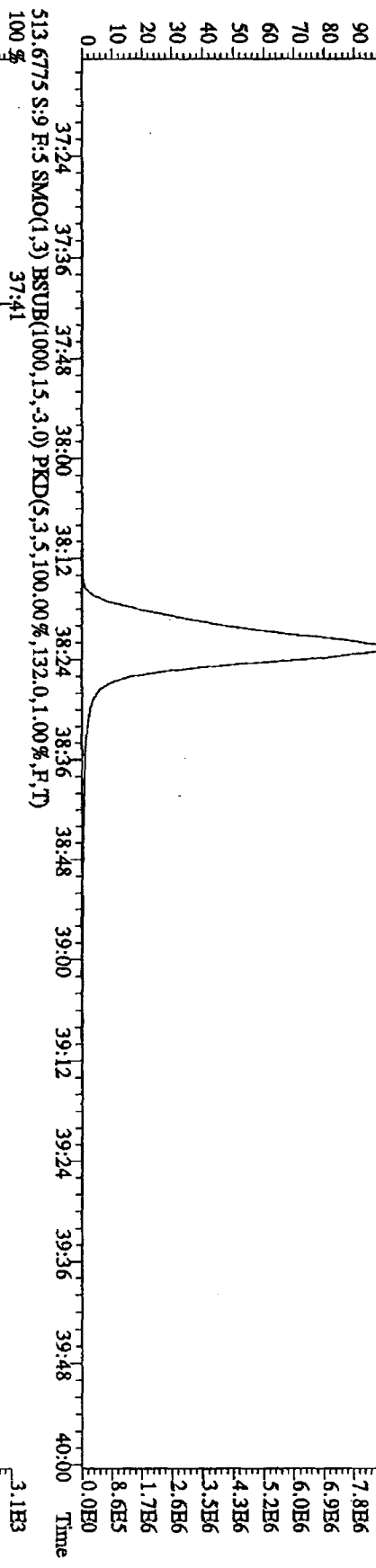
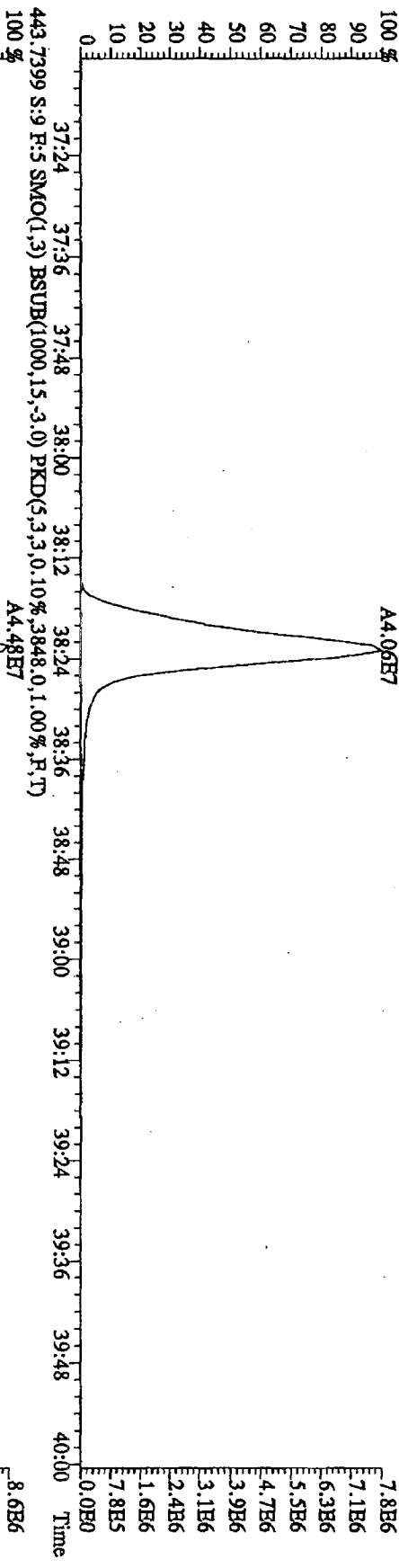
Sample#9 Text: ST0721F 2nd Source 10DDXN340 Exp: DIOXINRES



File:211L10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text:ST0721F 2nd Source 10DXN340 Exp:DIOXINRES
 423.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T)
 100% A2.14E7



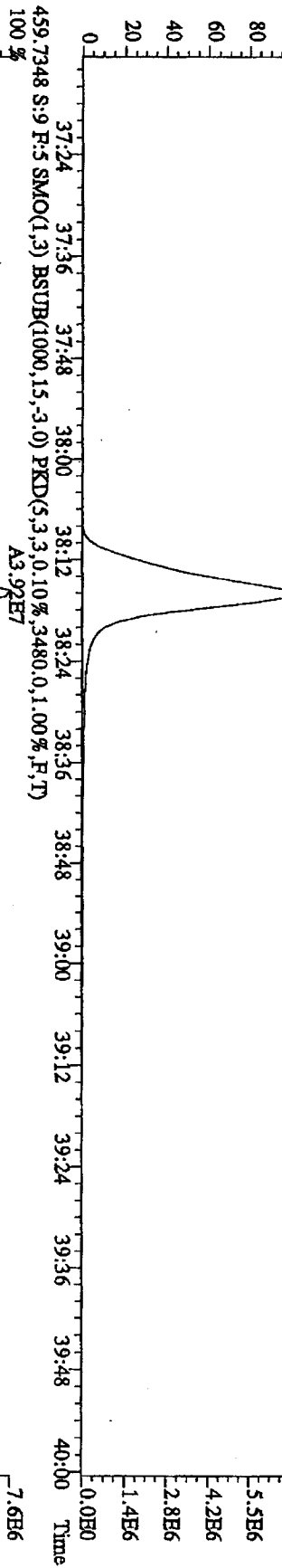
File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 20:34:02 GC HF+ Voltage STR Autospec-Ultimate
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES
 441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4172.0,1.00%,F,T)
 100% A4.06E7



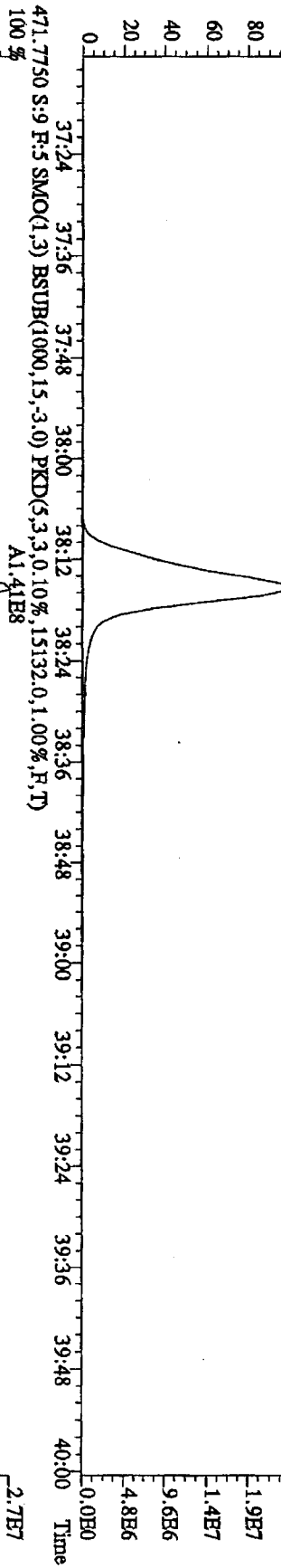
File:211L10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-UltimaB

Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

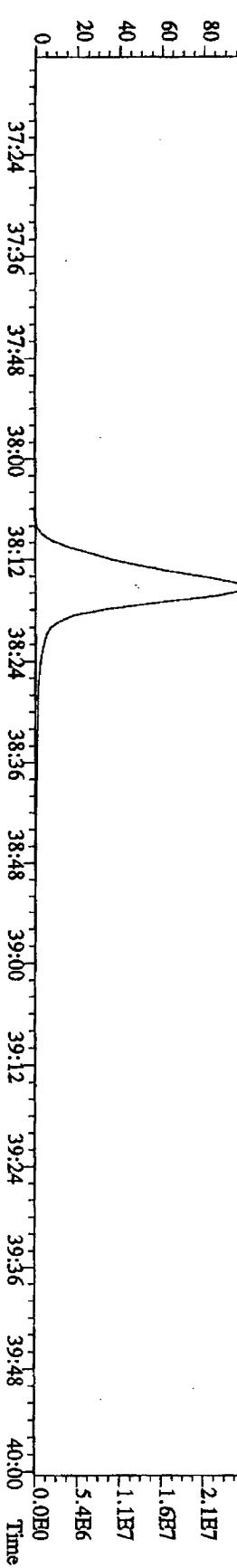
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4572.0,1.00%,F,T) 100%



459.7748 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7336.0,1.00%,F,T) 100%



471.7750 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15132.0,1.00%,F,T) 100%



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB

Sample#9 Text:ST0721F 2nd Source 10D3XN340 Exp:DIOXINRES

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

100% 15:14 15:44 16:13

17:12

18:12

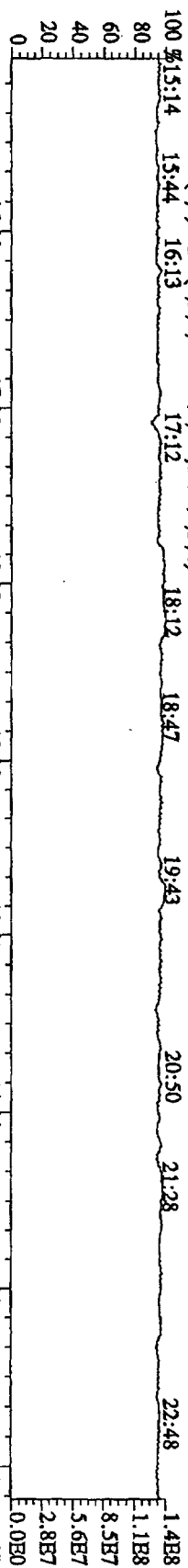
18:47

19:43

20:50

21:28

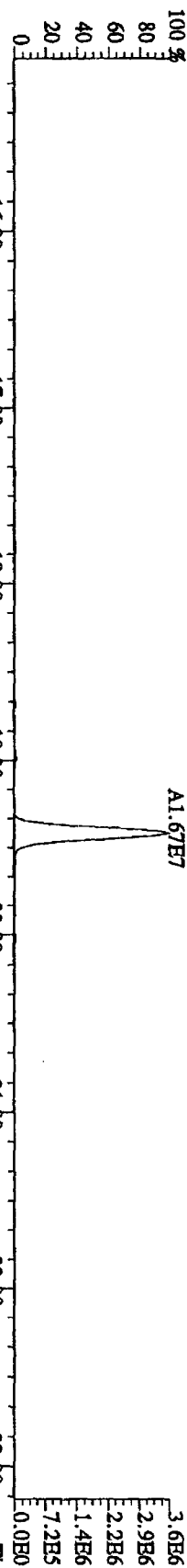
22:48



303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2796,0,1.00%,F,T)

100%

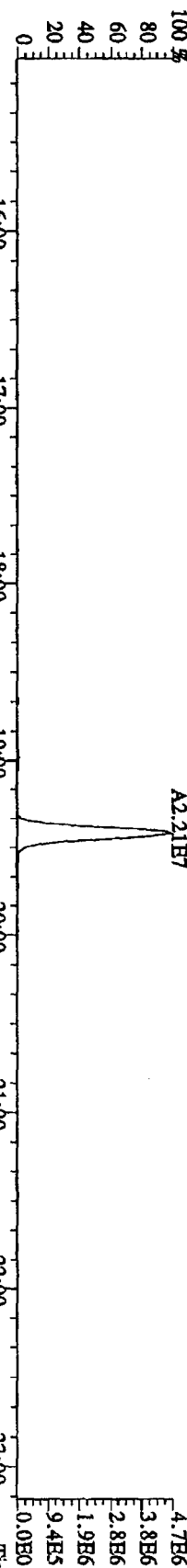
A1.67E7



305.8987 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4060,0,1.00%,F,T)

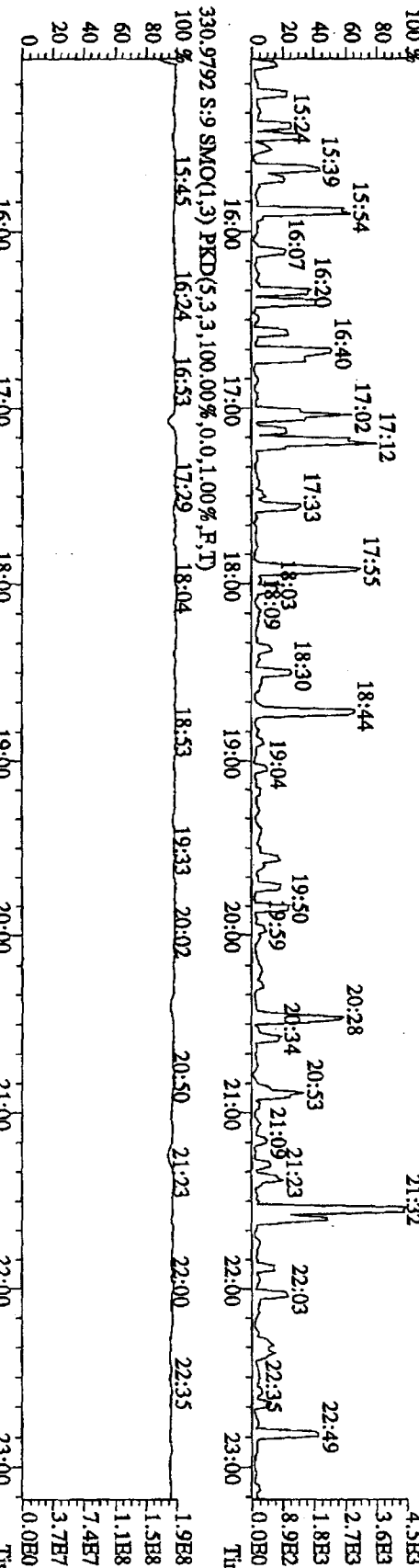
100%

A2.21E7

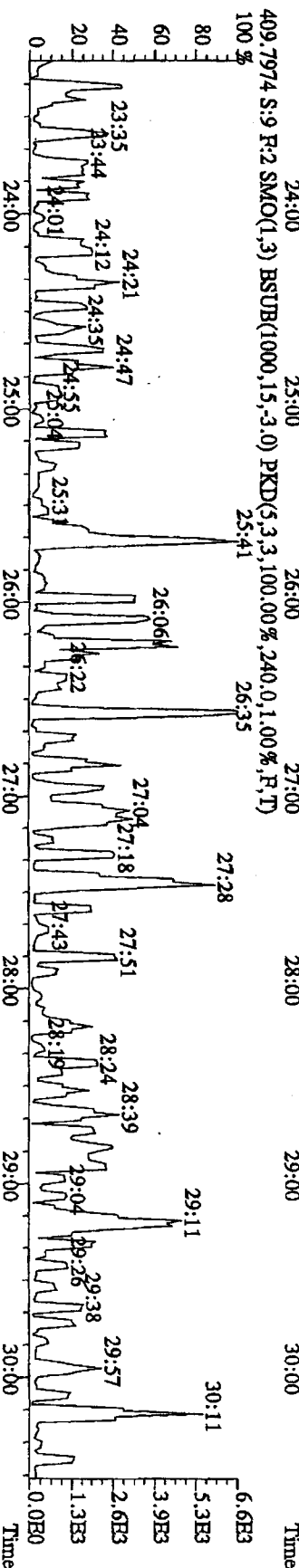
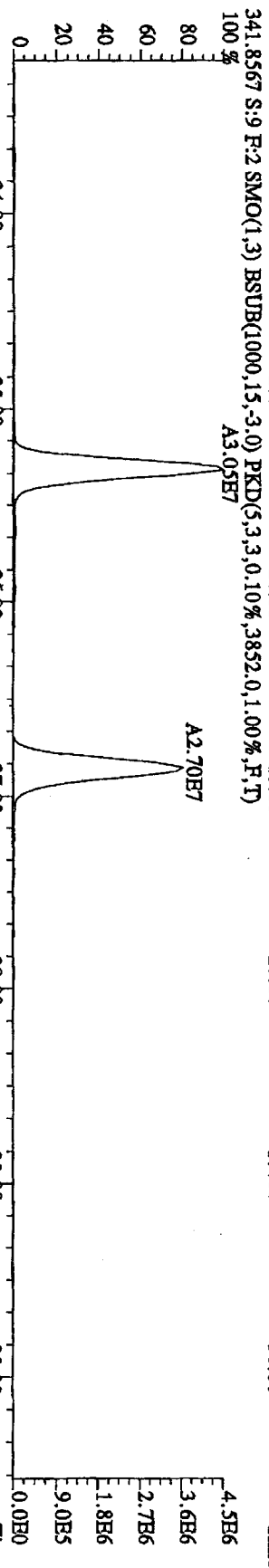
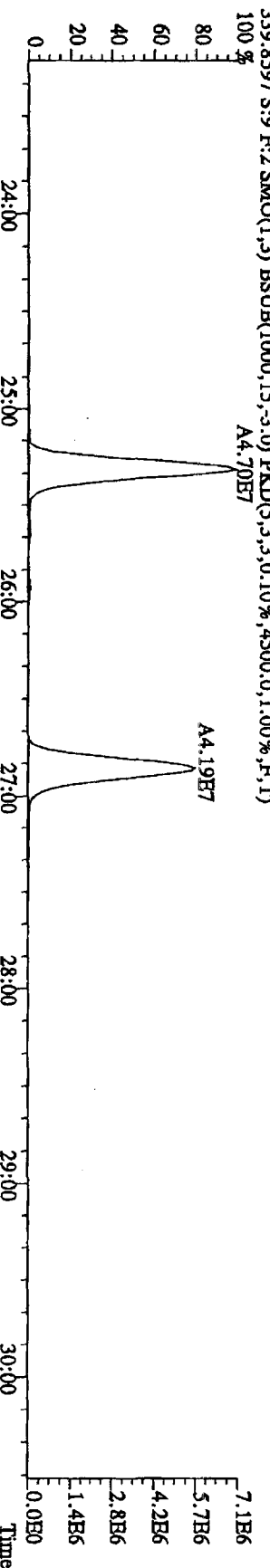
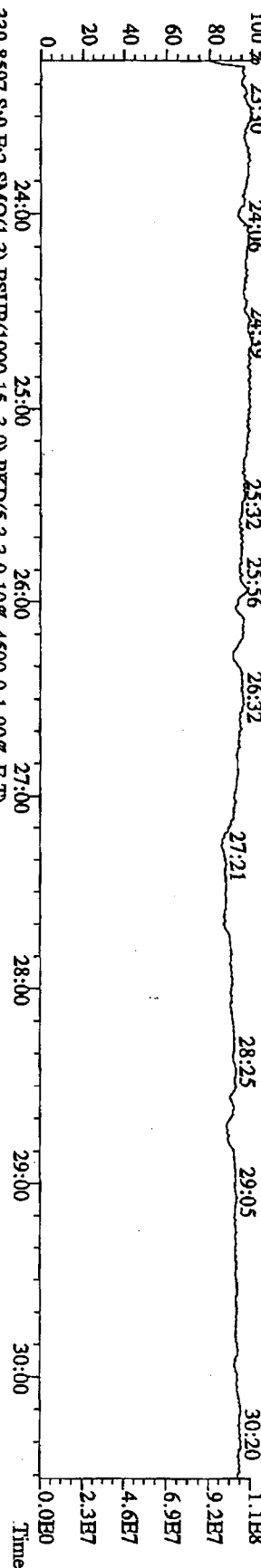


375.8364 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,188,0,1.00%,F,T)

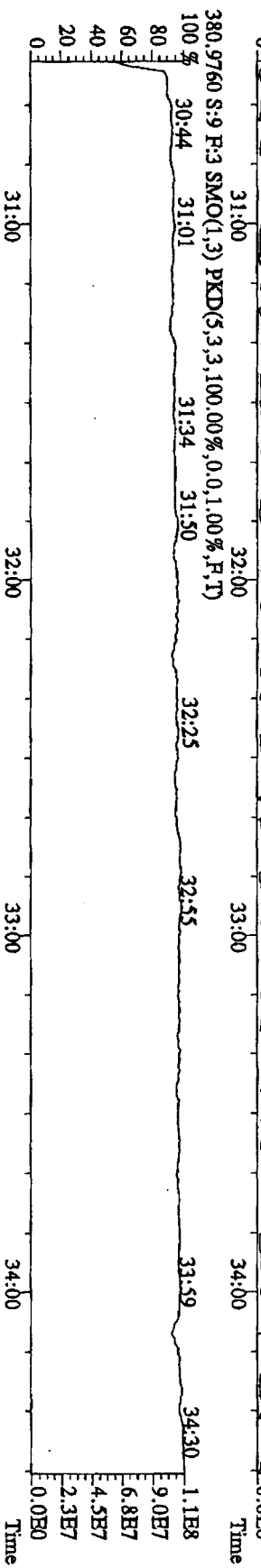
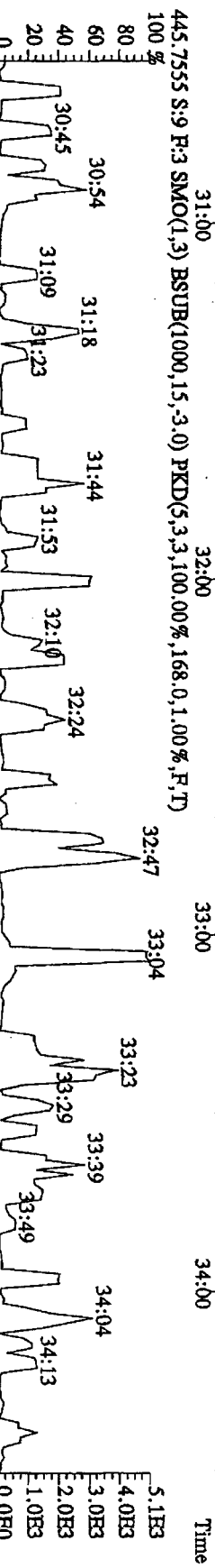
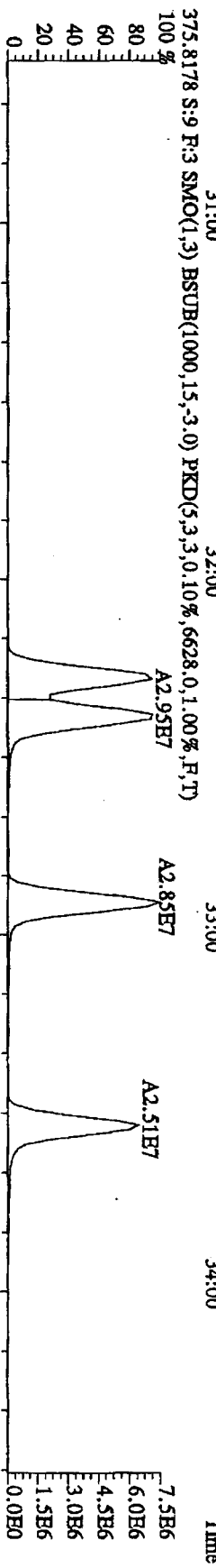
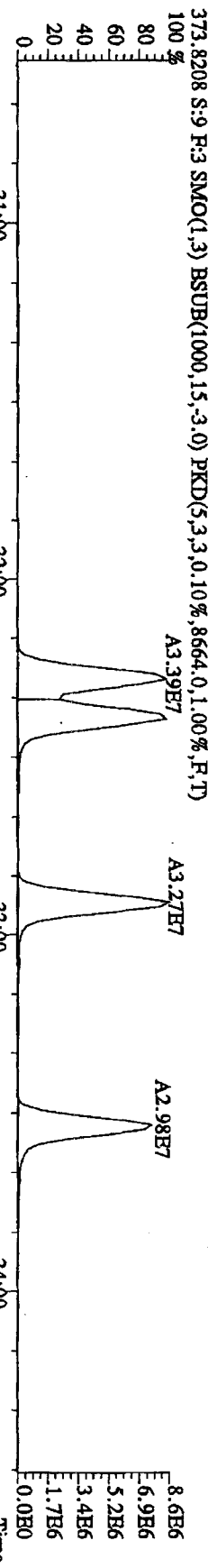
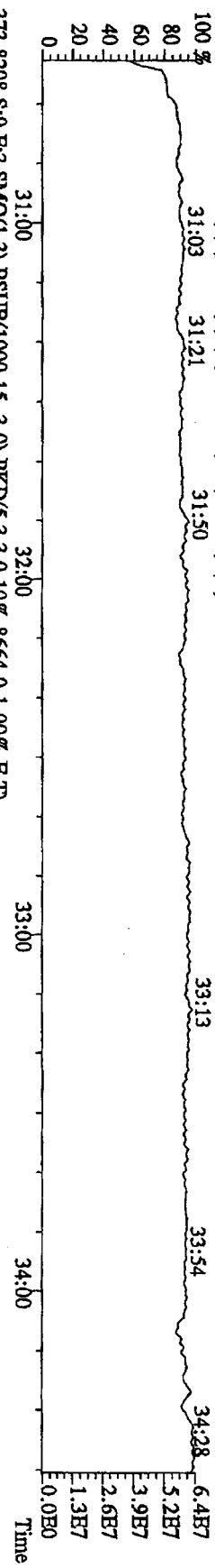
100%



File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 20:34:02 GC RI + Voltage SIR Autospec-UltimaB
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES
 342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:30 24:06 24:39 25:32 25:36 26:32 27:21 28:25 29:05 30:20

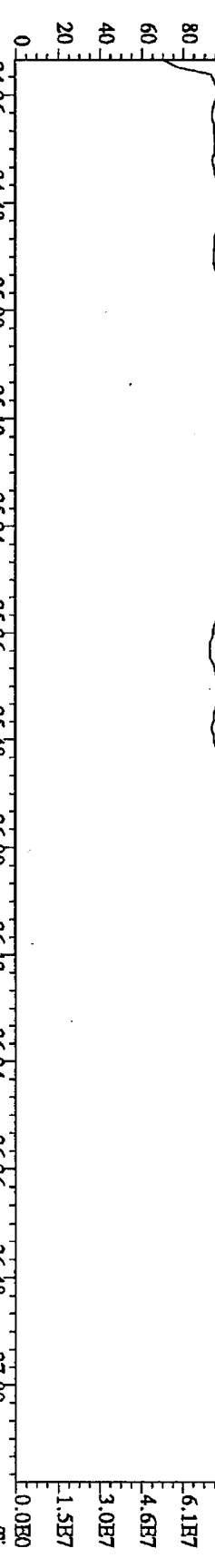


File: 21JL10A4D5 #1-286 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text: ST0721F 2nd Source 10DXN340 Exp: DIOXNRES
 392.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 31:03 31:21 31:50

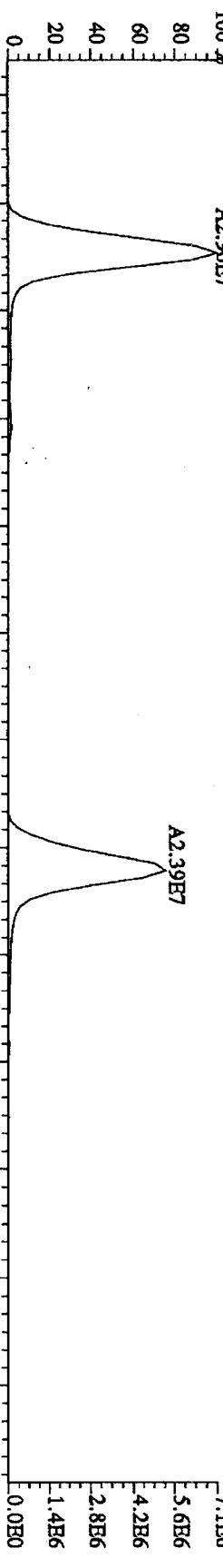


File:211L10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB

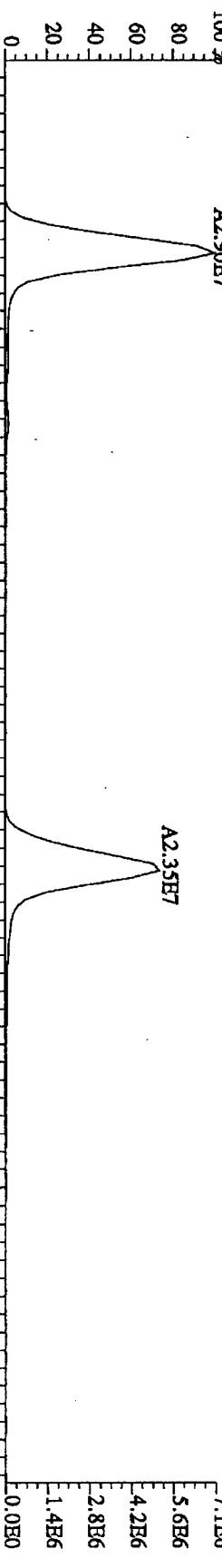
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
430.9728 S:9 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



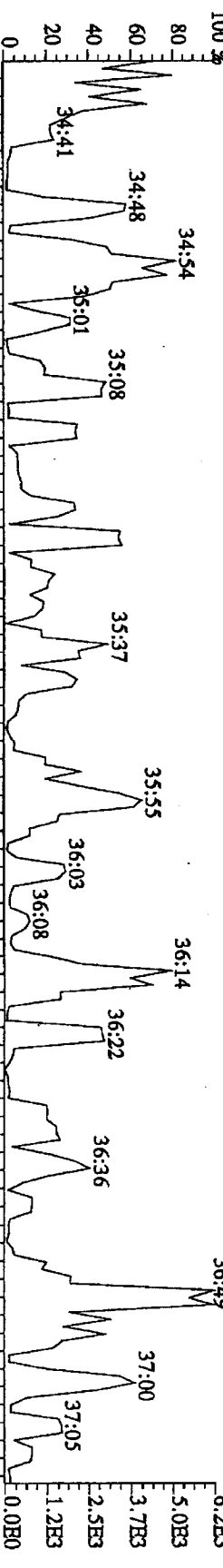
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6948,0.1,0.00%,F,T)



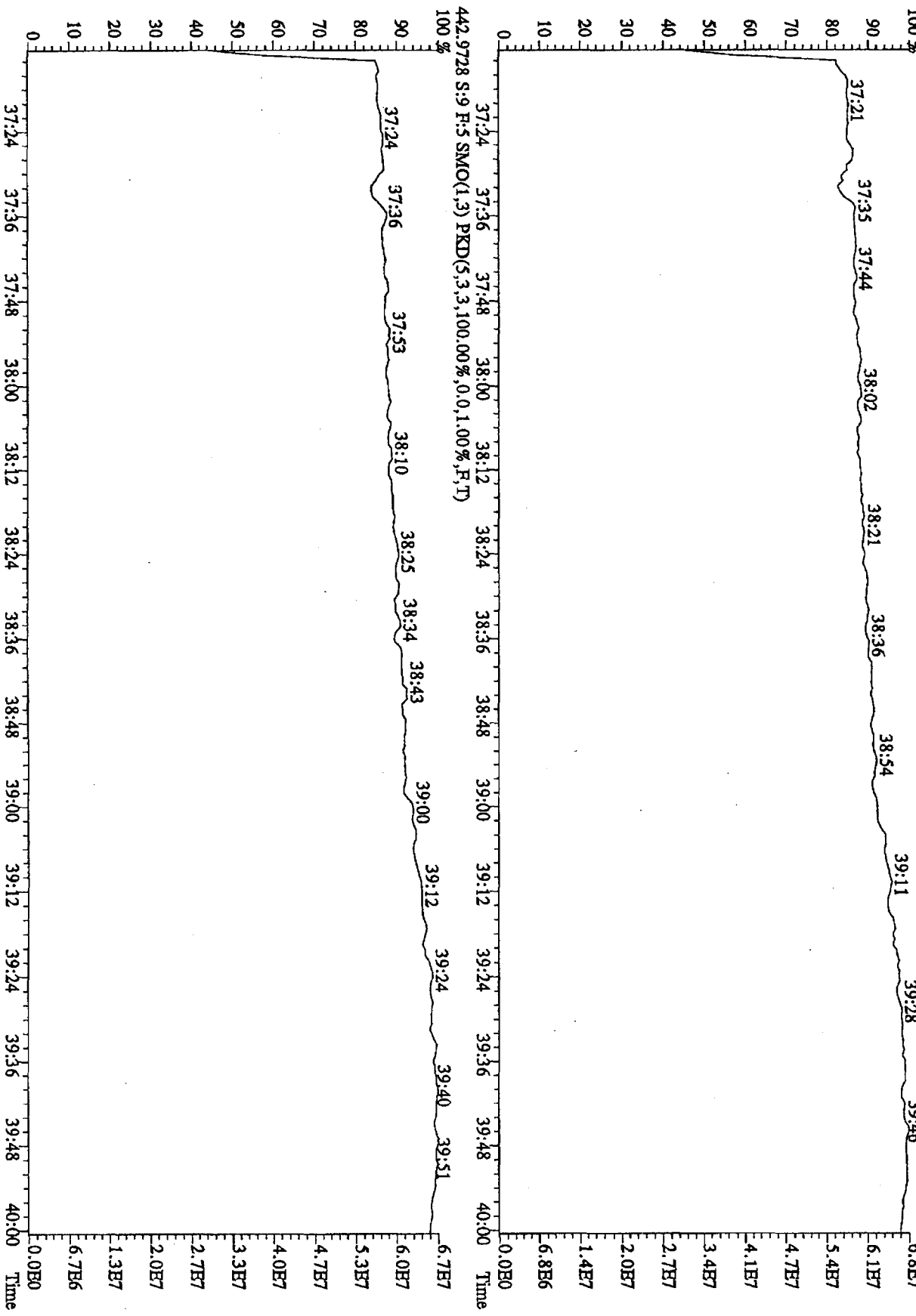
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10344,0.1,0.00%,F,T)



479.7165 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,184,0.1,0.00%,F,T)



File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC HI+ Voltage SIR Autospec-UHimaB
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
 454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log
Copies and Checklists

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

Batch: 0294289
MS Run #:
Prep Date: 10/21/2010

Shared QC Batch: 021426A
Shares
QC With: 102110 JWC SV

Internal COC:	
Delivered to Inst.:	JWJ2612
Inst Receipt:	

Box # 93

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W

Soxhlet time on: 1470 Soxhlet time off: 0830

Prep Reagents		Lot #
Reagent	Supplier	
Toluene	Baker	JBNJA
Hexane	Baker	J29E20
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-79A
65% DCM:Hexane	NA	3630-80A
1:1 DCM:Cyclohexane	NA	NA
75:20:5	NA	NA
DCM:Hexane:Benzene	NA	NA
Silica Gel	NA	4022-8E
Acid Alumina	MP-B10	79
5% Carbon:Silica Gel	NA	NA

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
					20uL	Other				
GOJ210000 - 289	B	L8V091AA	11/17/2010	1	✓		12/5/2010			5
GOJ210000 - 289	C	L8V091AC	11/17/2010	1	✓		12/5/2010			7
GOJ210000 - 289	L	L8V091AD	11/17/2010	1	✓		12/5/2010			6
GOJ210484 - 11		L8VH61AA	11/17/2010	1	✓		12/5/2010	JWJ2612		6
GOJ210484 - 13		L8VH81AA	11/17/2010	1	✓		12/5/2010			5
GOJ210484 - 14		L8VH91AA	11/18/2010	1	✓		12/5/2010			7
GOJ210484 - 17		L8VJE1AA	11/18/2010	1	✓		12/5/2010			6

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

The MB LCS, DCS is also used for Steve Valmore's IDOC's labelled
 102110 IDOC'S. SN 102110

ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
2ML/100XN463/1613 8290 IS 2-4 NIST	12/14/10	SCY	SCY	10/21/10
Spike Mix LCS/LCSD/MS/MS	5/26/11	CD	SCY	10/21/10
Pre-Spike Standard MB/EC6/LCSD	7/19/11	CD	SCY	10/21/10
Recovery Standard All Samples	10/14/11	J	ML	10/20/10
Soxhlet Extraction Analyst/Date	SN 10/21/10			

Split/Archive 5.0ml
 Analyst/Date 5/26/11

Option C
 Analyst/Date

IFB
 Analyst/Date

D2
 Analyst/Date

ML/10/24/10
 ML/10/26/10
 ML/10/26/10

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/26/10
Time: 16:59:41

LEV	LEV	LEV	LEV
1	1	2	2
Y	Y	Y	Y
Y	Y	Y	Y
-	-	-	-

Blank Check MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: 090182 Steve Valmores

Concentrationist: 006625 Elizabeth Nguyen

* QC BATCH: 0294289 *
* PREP DATE: 10/21/10 15:00 *
* COMP DATE: 10/26/10 17:00 *

Reviewer/Date: NGUYENE / 10/26/10

Dioxins/Furans, HRGC/HRMS (TO-9)
SOXHLET (NONE, Na2SO4)

EXTR	ANL	LOT#	MSRUN#	TEST	EXT	MTH	MATRIX	INIT	PH'S	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SOLVENTS	SURROGATE	STANDARD/ ID
EXPR	DUE	WORK	ORDER	FLGS	EXT	MTH	MATRIX	WT/VOL	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SOLVENTS	SURROGATE	STANDARD/ ID	
11/17/10	10/28/10	G0J210484-011	L8VH6-1-AA	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	2.0ML	IS10DXN463	
COMMENTS:																		
11/17/10	10/28/10	G0J210484-013	L8VH8-1-AA	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	2.0ML	IS10DXN463	
COMMENTS:																		
11/18/10	10/28/10	G0J210484-014	L8VH9-1-AA	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	2.0ML	IS10DXN463	
COMMENTS:																		
11/18/10	10/28/10	G0J210484-017	L8VJR-1-AA	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	2.0ML	IS10DXN463	
COMMENTS:																		
11/17/10	0/00/00	G0J210000-289	L8V09-1-AAB	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	200.0UL	10DXN429	2.0ML IS10DXN463
COMMENTS:																		
11/17/10	0/00/00	G0J210000-289	L8V09-1-ACC	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	100.0UL	NS10DXN148	2.0ML IS10DXN463
COMMENTS:																		
11/17/10	0/00/00	G0J210000-289	L8V09-1-ADL	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	700.0	C14	20.0	100.0UL	NS10DXN148	2.0ML IS10DXN463
COMMENTS:																		

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

Preparation Data Review Checklist

Prep Batch(es) 0294289

Test: TO 9 d/f

Prep Date: 10/21/10

Holding Times: 11/17/10 NCM: Y N

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

Spike witness: SCJ

Date: 10/21/10

2nd Level Reviewer: SPJ

Date: 10/21/10

Comments:

**Data Checklist
HRGCMS/LRGCMS Analyses**

Batch #: 0294289 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

Data Analyst: Vg DB-5
Date initiated: 10-30-10
Reviewer: MWJ
Date reviewed: 10/30/2010

Data Analyst: Vg DB-225
Date initiated: 10-30-10
Reviewer: MWJ
Date reviewed: 10/30/2010

QA/QC verification:

	<u>Initiated</u> <u>DB-5</u>	<u>Reviewed</u> <u>DB-5</u>	<u>Initiated</u> <u>DB-225</u> (High Res Only)	<u>Reviewed</u> <u>DB-225</u> (High Res Only)
-Daily standard package(s) present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Method Blank present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>
-LCS/DCS copy present and meets native recovery criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>
-Internal standard recoveries within limits?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Ion ratios within + 15% of theoretical values?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Other QC (Dup,MS,SD) within specs?*	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Sample Analysis:

	<u>Initiated</u> <u>DB-5</u>	<u>Reviewed</u> <u>DB-5</u>	<u>Initiated</u> <u>DB-225</u> (High Res Only)	<u>Reviewed</u> <u>DB-225</u> (High Res Only)
-Correct sample aliquot used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All raw data present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Standard target DL's used? If RL's are used specify: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-DL's below TDL / LCL (please circle)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All positives reported at levels greater than method blank DL's?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct RRF's used for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Internal standard amounts correct for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Target analytes are not saturated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Dilution (splitting) of extract taken into account?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Have dilution calculations been verified?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Has a manual calculation for the sequence(s) been verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Are retention times (RT) correct?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Manual integrations checked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>

Comments: (Use other side if necessary)

① see Nem

*** Recovery limits:**

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)
PCBs:	25-150%***
Method 8280:	40-120%***
DFLM01.0:	25-150%***
Method 1614	25-150%***

****RPD limits:**

50%
20%
50%
50%
50%

*** Lower recoveries are acceptable if I.S. S/N ≥ 10:1 and DL's are <LCL for target analytes.

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

Instrument ID (Circle one): M01 M02		Method 6020 SOP SAC-MT-0001		
File Number 101026A1	Batch Numbers 0288259, 0298338, 0297371, 0298335, 0295399, 0299248	Date 10/26/10	Analyst BRJ	
Lot Numbers G0J090430, G0J210431, G0J080620, G0J150624, G0J080498, G0J210484		YES	NO	NA
1. Copy of analysis protocol used included?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. ICVs & CCVs within 10% of true value or recal and rerun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. ICB & CCBs < reporting limit or recal and rerun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. 10 samples or less analyzed between calibration checks?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. All parameters within linear range?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. LCS/LCSD within limits?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Prep blank value < reporting limit or all samples >20x blank?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Appropriate dilution factors applied to data?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Matrix spike and spike dup within customer defined limits?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Each batch checked for presence of internal standard in samples?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Anomalies entered using Clouseau?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

COMMENTS: _____

REVIEWED BY: MTZ	DATA ENTERED BY: BRJ
DATE: 10/28/10	DATE: 10/27/10

Dataset Report

Perkin Elmer ICPMS M01
 SOP No. SAC-MT-0001
 Method 6020,200.8

User Name: metal

Computer Name: SACP317BFB

Dataset File Path: C:\elandata\Dataset\101026A1\

Report Date/Time: Wednesday, October 27, 2010 09:13:05

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	10:48:54 Tue 26-Oct-10	Sample	
	AUTOLENS BJONES	10:54:14 Tue 26-Oct-10	Sample	Auto Lens Calib
	DAILY BJONES	10:56:18 Tue 26-Oct-10	Sample	
0288259	L779A N.I.	14:04:16 Tue 26-Oct-10	Sample	G0J090430-3 N.I.
0298338	L8T2G N.I.	14:07:08 Tue 26-Oct-10	Sample	G0J210431-1 N.I.
0287371	L77L1 N.I.	14:09:59 Tue 26-Oct-10	Sample	G0J080620-1 N.I.
0298335	L8LDL N.I.	14:12:51 Tue 26-Oct-10	Sample	G0J150624-1 N.I.
0295399	L76K8 N.I.	14:15:44 Tue 26-Oct-10	Sample	G0J080498-1 N.I.
0299248	L8VHK N.I.	14:18:37 Tue 26-Oct-10	Sample	G0J210484-1 N.I.
	Rinse 3X	14:30:17 Tue 26-Oct-10	Sample	
	Blank	14:34:59 Tue 26-Oct-10	Blank	
	Standard 1	14:39:36 Tue 26-Oct-10	Standard #1	
	ICV	14:43:55 Tue 26-Oct-10	Sample	
	ICB	14:48:21 Tue 26-Oct-10	Sample	
	LLSTD1	14:52:45 Tue 26-Oct-10	Sample	LLSTD@10X <i>our AI - (cont.)</i>
	LLSTD1	14:58:13 Tue 26-Oct-10	Sample	LLSTD@10X ✓
	ICSA	15:02:36 Tue 26-Oct-10	Sample	
	ICSAB	15:06:59 Tue 26-Oct-10	Sample	
	Rinse	15:16:38 Tue 26-Oct-10	Sample	
	CCV 1	15:23:04 Tue 26-Oct-10	Sample	
	CCB 1	15:27:31 Tue 26-Oct-10	Sample	
	CCV 2	15:31:57 Tue 26-Oct-10	Sample	
	CCB 2	15:36:24 Tue 26-Oct-10	Sample	
288259	L8JJ7B	15:40:51 Tue 26-Oct-10	Sample	G0J150000-259 BLK
288259	L8JJ7C	15:45:15 Tue 26-Oct-10	Sample	G0J150000-259 LCS
288259	L8JJ7L	15:49:37 Tue 26-Oct-10	Sample	G0J150000-259 LCSD
288259	L779A	15:53:58 Tue 26-Oct-10	Sample	G0J090430-3
288259	L779AP5	15:58:20 Tue 26-Oct-10	Sample	G0J090430-3 5X
288259	L779AZ	16:02:43 Tue 26-Oct-10	Sample	G0J090430-3 PS
	CCV 3	16:07:07 Tue 26-Oct-10	Sample	
	CCB 3	16:11:34 Tue 26-Oct-10	Sample	
	CCV 4	16:16:00 Tue 26-Oct-10	Sample	
	CCB 4	16:20:26 Tue 26-Oct-10	Sample	
298338	L822QB	16:24:54 Tue 26-Oct-10	Sample	G0J250000-338 BLK
298338-335	L822QC-L822LC	16:29:17 Tue 26-Oct-10	Sample	G0J250000-338 LCS
298335-336	L822LL-L822QL	16:33:40 Tue 26-Oct-10	Sample	G0J250000-335 LCSD
298338	L8T2G	16:38:02 Tue 26-Oct-10	Sample	G0J210431-1
298338	L8T2GP5	16:42:25 Tue 26-Oct-10	Sample	G0J210431-1 5X
298338	L8T2GZ	16:46:49 Tue 26-Oct-10	Sample	G0J210431-1 PS
298338	L8T2J	16:51:13 Tue 26-Oct-10	Sample	G0J210431-2
298338	L8T2K	16:55:37 Tue 26-Oct-10	Sample	G0J210431-3
	CCV 5	17:00:03 Tue 26-Oct-10	Sample	
	CCB 5	17:04:29 Tue 26-Oct-10	Sample	
	CCV 6	17:08:55 Tue 26-Oct-10	Sample	
	CCB 6	17:13:21 Tue 26-Oct-10	Sample	
298338	L8T2L	17:17:47 Tue 26-Oct-10	Sample	G0J210431-4
298338	L8T2M	17:22:13 Tue 26-Oct-10	Sample	G0J210431-5
298338	L8T2N	17:26:38 Tue 26-Oct-10	Sample	G0J210431-6
298338	L8T2P	17:31:05 Tue 26-Oct-10	Sample	G0J210431-7

298338	L8T2Q	17:35:31 Tue 26-Oct-10	Sample	G0J210431-8
	LLSTD1	17:39:56 Tue 26-Oct-10	Sample	LLSTD@10X
	LLSTD2	17:44:18 Tue 26-Oct-10	Sample	LLSTD@5X
	ICSA	17:48:42 Tue 26-Oct-10	Sample	
	ICSAB	17:53:05 Tue 26-Oct-10	Sample	
	CCV 7	18:01:10 Tue 26-Oct-10	Sample	
	CCB 7	18:05:36 Tue 26-Oct-10	Sample	
SHORT LIST -	CCV 8	18:10:02 Tue 26-Oct-10	Sample	
	CCB 8	18:13:52 Tue 26-Oct-10	Sample	
	CCV 9	18:17:42 Tue 26-Oct-10	Sample	
	CCB 9	18:21:32 Tue 26-Oct-10	Sample	
287371	L8GPLB	18:25:22 Tue 26-Oct-10	Sample	G0J140000-371 BLK
287371	L8GPLC	18:29:11 Tue 26-Oct-10	Sample	G0J140000-371 LCS
287371	L8GPLL	18:32:57 Tue 26-Oct-10	Sample	G0J140000-371 LCSD
287371	L77L1	18:36:43 Tue 26-Oct-10	Sample	G0J080620-1
287371	L77L1P5	18:40:29 Tue 26-Oct-10	Sample	G0J080620-1 5X
287371	L77L1Z	18:44:15 Tue 26-Oct-10	Sample	G0J080620-1 PS
287371	L77L2	18:48:01 Tue 26-Oct-10	Sample	G0J080620-2
287371	L77L3	18:51:48 Tue 26-Oct-10	Sample	G0J080620-3
287371	L77L4	18:55:35 Tue 26-Oct-10	Sample	G0J080620-4
287371	L77L5	18:59:22 Tue 26-Oct-10	Sample	G0J080620-5
	CCV 10	19:03:10 Tue 26-Oct-10	Sample	
	CCB 10	19:07:00 Tue 26-Oct-10	Sample	
	CCV 11	19:10:50 Tue 26-Oct-10	Sample	
	CCB 11	19:14:40 Tue 26-Oct-10	Sample	
298335	L822LB	19:18:31 Tue 26-Oct-10	Sample	G0J250000-335 BLK - OVR NI - RERUN
298335	L8LDL	19:22:20 Tue 26-Oct-10	Sample	G0J150624-1
298335	L8LDLP5	19:26:09 Tue 26-Oct-10	Sample	G0J150624-1 5X
298335	L8LDLZ	19:29:57 Tue 26-Oct-10	Sample	G0J150624-1 PS
298335	L8LDM	19:33:46 Tue 26-Oct-10	Sample	G0J150624-2
298335	L8LDN	19:37:36 Tue 26-Oct-10	Sample	G0J150624-3
298335	L8LDP	19:41:26 Tue 26-Oct-10	Sample	G0J150624-4
298335	L8LDQ	19:45:16 Tue 26-Oct-10	Sample	G0J150624-5
	CCV 12	19:49:06 Tue 26-Oct-10	Sample	
	CCB 12	19:52:55 Tue 26-Oct-10	Sample	
	CCV 13	19:56:45 Tue 26-Oct-10	Sample	
	CCB 13	20:00:35 Tue 26-Oct-10	Sample	
295399	L81FKB	20:04:26 Tue 26-Oct-10	Sample	G0J220000-399 BLK
295399	L81FKC	20:08:15 Tue 26-Oct-10	Sample	G0J220000-399 LCS
295399	L81FKL	20:12:03 Tue 26-Oct-10	Sample	G0J220000-399 LCSD
295399	L76K8	20:15:49 Tue 26-Oct-10	Sample	G0J080498-1
295399	L76K8P5	20:19:34 Tue 26-Oct-10	Sample	G0J080498-1 5X
295399	L76K8X	20:23:19 Tue 26-Oct-10	Sample	G0J080498-1 DU
295399	L76K8Z	20:27:05 Tue 26-Oct-10	Sample	G0J080498-1 PS
	CCV 14	20:30:52 Tue 26-Oct-10	Sample	
	CCB 14	20:34:42 Tue 26-Oct-10	Sample	
	CCV 15	20:38:32 Tue 26-Oct-10	Sample	
	CCB 15	20:42:22 Tue 26-Oct-10	Sample	
295399	L76LH	20:46:10 Tue 26-Oct-10	Sample	G0J080498-2
295399	L76LHX	20:49:57 Tue 26-Oct-10	Sample	G0J080498-2 DU
295399	L76LN	20:53:44 Tue 26-Oct-10	Sample	G0J080498-3
295399	L76LT	20:57:33 Tue 26-Oct-10	Sample	G0J080498-4
295399	L76LX	21:01:20 Tue 26-Oct-10	Sample	G0J080498-5
295399	L76L1	21:05:08 Tue 26-Oct-10	Sample	G0J080498-6
295399	L76L2	21:08:57 Tue 26-Oct-10	Sample	G0J080498-7
295399	L76L7	21:12:46 Tue 26-Oct-10	Sample	G0J080498-8
	CCV 16	21:16:35 Tue 26-Oct-10	Sample	
	CCB 16	21:20:25 Tue 26-Oct-10	Sample	
SHORT LIST -	CCV 17	21:24:15 Tue 26-Oct-10	Sample	
	CCB 17	21:27:10 Tue 26-Oct-10	Sample	

	CCV 18	21:30:06 Tue 26-Oct-10	Sample	
	CCB 18	21:33:01 Tue 26-Oct-10	Sample	
299248	L84F1B	21:35:58 Tue 26-Oct-10	Sample	G0J260000-248 BLK
299248	L84F1C	21:38:54 Tue 26-Oct-10	Sample	G0J260000-248 LCS
299248	L84F1L	21:41:47 Tue 26-Oct-10	Sample	G0J260000-248 LCSD
299248	L8VHK	21:44:40 Tue 26-Oct-10	Sample	G0J210484-1
299248	L8VHKP5	21:47:32 Tue 26-Oct-10	Sample	G0J210484-1 5X
299248	L8VHKZ	21:50:25 Tue 26-Oct-10	Sample	G0J210484-1 PS
299248	L8VHM	21:53:18 Tue 26-Oct-10	Sample	G0J210484-2
	CCV 19	21:56:12 Tue 26-Oct-10	Sample	
	CCB 19	21:59:07 Tue 26-Oct-10	Sample	
	CCV 20	22:02:03 Tue 26-Oct-10	Sample	
	CCB 20	22:04:58 Tue 26-Oct-10	Sample	
299248	L8VHN	22:07:53 Tue 26-Oct-10	Sample	G0J210484-3
299248	L8VHQ	22:10:47 Tue 26-Oct-10	Sample	G0J210484-4
299248	L8VHT	22:13:41 Tue 26-Oct-10	Sample	G0J210484-5
299248	L8VHW	22:16:35 Tue 26-Oct-10	Sample	G0J210484-6
299248	L8VHX	22:19:31 Tue 26-Oct-10	Sample	G0J210484-7
299248	L8VH0	22:22:26 Tue 26-Oct-10	Sample	G0J210484-8
299248	L8VH2	22:25:22 Tue 26-Oct-10	Sample	G0J210484-9
	CCV 21	22:28:17 Tue 26-Oct-10	Sample	
	CCB 21	22:31:12 Tue 26-Oct-10	Sample	

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

Instrument: M01

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 3X				3.0	10/26/10 14:30	<input type="checkbox"/>
2	Blank				1.0	10/26/10 14:34	<input type="checkbox"/>
3	Standard1				1.0	10/26/10 14:39	<input type="checkbox"/>
4	ICV				1.0	10/26/10 14:43	<input type="checkbox"/>
5	ICB				1.0	10/26/10 14:48	<input type="checkbox"/>
6	LLSTD1				1.0	10/26/10 14:52	<input type="checkbox"/>
7	LLSTD1				1.0	10/26/10 14:58	<input type="checkbox"/>
8	ICSA				1.0	10/26/10 15:02	<input type="checkbox"/>
9	ICSAB				1.0	10/26/10 15:06	<input type="checkbox"/>
10	Rinse				1.0	10/26/10 15:16	<input type="checkbox"/>
11	CCV 1				1.0	10/26/10 15:23	<input type="checkbox"/>
12	CCB 1				1.0	10/26/10 15:27	<input type="checkbox"/>
13	CCV 2				1.0	10/26/10 15:31	<input type="checkbox"/>
14	CCB 2				1.0	10/26/10 15:36	<input type="checkbox"/>
15	L8JJ7B	G0J150000	0288259	2A	1.0	10/26/10 15:40	<input type="checkbox"/>
16	L8JJ7C	G0J150000	0288259	2A	1.0	10/26/10 15:45	<input type="checkbox"/>
17	L8JJ7L	G0J150000	0288259	2A	1.0	10/26/10 15:49	<input type="checkbox"/>
18	L779A	G0J090430-3	0288259	2A	1.0	10/26/10 15:53	<input type="checkbox"/>
19	L779AP5	G0J090430	0288259		5.0	10/26/10 15:58	<input type="checkbox"/>
20	L779AZ	G0J090430-3	0288259		1.0	10/26/10 16:02	<input type="checkbox"/>
21	CCV 3				1.0	10/26/10 16:07	<input type="checkbox"/>
22	CCB 3				1.0	10/26/10 16:11	<input type="checkbox"/>
23	CCV 4				1.0	10/26/10 16:16	<input type="checkbox"/>
24	CCB 4				1.0	10/26/10 16:20	<input type="checkbox"/>
25	L822QB	G0J250000	0298338	2A	1.0	10/26/10 16:24	<input type="checkbox"/>
26	L822QC	G0J250000	0298338	2A	1.0	10/26/10 16:29	<input type="checkbox"/>
27	L822LL	G0J250000	0298335	2A	1.0	10/26/10 16:33	<input type="checkbox"/>
28	L8T2G	G0J210431-1	0298338	2A	1.0	10/26/10 16:38	<input type="checkbox"/>
29	L8T2GP5	G0J210431	0298338		5.0	10/26/10 16:42	<input type="checkbox"/>
30	L8T2GZ	G0J210431-1	0298338		1.0	10/26/10 16:46	<input type="checkbox"/>
31	L8T2J	G0J210431-2	0298338	2A	1.0	10/26/10 16:51	<input type="checkbox"/>
32	L8T2K	G0J210431-3	0298338	2A	1.0	10/26/10 16:55	<input type="checkbox"/>
33	CCV 5				1.0	10/26/10 17:00	<input type="checkbox"/>
34	CCB 5				1.0	10/26/10 17:04	<input type="checkbox"/>
35	CCV 6				1.0	10/26/10 17:08	<input type="checkbox"/>
36	CCB 6				1.0	10/26/10 17:13	<input type="checkbox"/>
37	L8T2L	G0J210431-4	0298338	2A	1.0	10/26/10 17:17	<input type="checkbox"/>
38	L8T2M	G0J210431-5	0298338	2A	1.0	10/26/10 17:22	<input type="checkbox"/>
39	L8T2N	G0J210431-6	0298338	2A	1.0	10/26/10 17:26	<input type="checkbox"/>
40	L8T2P	G0J210431-7	0298338	2A	1.0	10/26/10 17:31	<input type="checkbox"/>
41	L8T2Q	G0J210431-8	0298338	2A	1.0	10/26/10 17:35	<input type="checkbox"/>
42	LLSTD1				1.0	10/26/10 17:39	<input type="checkbox"/>
43	LLSTD2				1.0	10/26/10 17:44	<input type="checkbox"/>
44	ICSA				1.0	10/26/10 17:48	<input type="checkbox"/>
45	ICSAB				1.0	10/26/10 17:53	<input type="checkbox"/>
46	CCV 7				1.0	10/26/10 18:01	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	Instrument: M01	Reported: 10/27/10 13:49:50
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File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
47	CCB 7				1.0	10/26/10 18:05	<input type="checkbox"/>
48	CCV 8				1.0	10/26/10 18:10	<input type="checkbox"/>
49	CCB 8				1.0	10/26/10 18:13	<input type="checkbox"/>
50	CCV 9				1.0	10/26/10 18:17	<input type="checkbox"/>
51	CCB 9				1.0	10/26/10 18:21	<input type="checkbox"/>
52	L8GPLB	G0J140000	0287371	2A	1.0	10/26/10 18:25	<input type="checkbox"/>
53	L8GPLC	G0J140000	0287371	2A	1.0	10/26/10 18:29	<input type="checkbox"/>
54	L8GPLL	G0J140000	0287371	2A	1.0	10/26/10 18:32	<input type="checkbox"/>
55	L77L1	G0J080620-1	0287371	2A	1.0	10/26/10 18:36	<input type="checkbox"/>
56	L77L1P5	G0J080620	0287371		5.0	10/26/10 18:40	<input type="checkbox"/>
57	L77L1Z	G0J080620-1	0287371		1.0	10/26/10 18:44	<input type="checkbox"/>
58	L77L2	G0J080620-2	0287371	2A	1.0	10/26/10 18:48	<input type="checkbox"/>
59	L77L3	G0J080620-3	0287371	2A	1.0	10/26/10 18:51	<input type="checkbox"/>
60	L77L4	G0J080620-4	0287371	2A	1.0	10/26/10 18:55	<input type="checkbox"/>
61	L77L5	G0J080620-5	0287371	2A	1.0	10/26/10 18:59	<input type="checkbox"/>
62	CCV 10				1.0	10/26/10 19:03	<input type="checkbox"/>
63	CCB 10				1.0	10/26/10 19:07	<input type="checkbox"/>
64	CCV 11				1.0	10/26/10 19:10	<input type="checkbox"/>
65	CCB 11				1.0	10/26/10 19:14	<input type="checkbox"/>
66	L822LB	G0J250000	0298335	2A	1.0	10/26/10 19:18	<input type="checkbox"/>
67	L8LDL	G0J150624-1	0298335	2A	1.0	10/26/10 19:22	<input type="checkbox"/>
68	L8LDLP5	G0J150624	0298335		5.0	10/26/10 19:26	<input type="checkbox"/>
69	L8LDLZ	G0J150624-1	0298335		1.0	10/26/10 19:29	<input type="checkbox"/>
70	L8LDM	G0J150624-2	0298335	2A	1.0	10/26/10 19:33	<input type="checkbox"/>
71	L8LDN	G0J150624-3	0298335	2A	1.0	10/26/10 19:37	<input type="checkbox"/>
72	L8LDP	G0J150624-4	0298335	2A	1.0	10/26/10 19:41	<input type="checkbox"/>
73	L8LDQ	G0J150624-5	0298335	2A	1.0	10/26/10 19:45	<input type="checkbox"/>
74	CCV 12				1.0	10/26/10 19:49	<input type="checkbox"/>
75	CCB 12				1.0	10/26/10 19:52	<input type="checkbox"/>
76	CCV 13				1.0	10/26/10 19:56	<input type="checkbox"/>
77	CCB 13				1.0	10/26/10 20:00	<input type="checkbox"/>
78	L81FKB	G0J220000	0295399	DF	1.0	10/26/10 20:04	<input type="checkbox"/>
79	L81FKC	G0J220000	0295399	DF	1.0	10/26/10 20:08	<input type="checkbox"/>
80	L81FKL	G0J220000	0295399	DF	1.0	10/26/10 20:12	<input type="checkbox"/>
81	L76K8	G0J080498-1	0295399	DF	1.0	10/26/10 20:15	<input type="checkbox"/>
82	L76K8P5	G0J080498	0295399		5.0	10/26/10 20:19	<input type="checkbox"/>
83	L76K8X	G0J080498-1	0295399	DF	1.0	10/26/10 20:23	<input type="checkbox"/>
84	L76K8Z	G0J080498-1	0295399		1.0	10/26/10 20:27	<input type="checkbox"/>
85	CCV 14				1.0	10/26/10 20:30	<input type="checkbox"/>
86	CCB 14				1.0	10/26/10 20:34	<input type="checkbox"/>
87	CCV 15				1.0	10/26/10 20:38	<input type="checkbox"/>
88	CCB 15				1.0	10/26/10 20:42	<input type="checkbox"/>
89	L76LH	G0J080498-2	0295399	DF	1.0	10/26/10 20:46	<input type="checkbox"/>
90	L76LHX	G0J080498-2	0295399	DF	1.0	10/26/10 20:49	<input type="checkbox"/>
91	L76LN	G0J080498-3	0295399	DF	1.0	10/26/10 20:53	<input type="checkbox"/>
92	L76LT	G0J080498-4	0295399	DF	1.0	10/26/10 20:57	<input type="checkbox"/>

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

Instrument: M01

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ionesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
93	L76LX	G0J080498-5	0295399	DF	1.0 10/26/10 21:01		<input type="checkbox"/>
94	L76L1	G0J080498-6	0295399	DF	1.0 10/26/10 21:05		<input type="checkbox"/>
95	L76L2	G0J080498-7	0295399	DF	1.0 10/26/10 21:08		<input type="checkbox"/>
96	L76L7	G0J080498-8	0295399	DF	1.0 10/26/10 21:12		<input type="checkbox"/>
97	CCV 16				1.0 10/26/10 21:16		<input type="checkbox"/>
98	CCB 16				1.0 10/26/10 21:20		<input type="checkbox"/>
99	CCV 17				1.0 10/26/10 21:24		<input type="checkbox"/>
100	CCB 17				1.0 10/26/10 21:27		<input type="checkbox"/>
101	CCV 18				1.0 10/26/10 21:30		<input type="checkbox"/>
102	CCB 18				1.0 10/26/10 21:33		<input type="checkbox"/>
103	L84F1B	G0J260000	0299248	2A	1.0 10/26/10 21:35		<input type="checkbox"/>
104	L84F1C	G0J260000	0299248	2A	1.0 10/26/10 21:38		<input type="checkbox"/>
105	L84F1L	G0J260000	0299248	2A	1.0 10/26/10 21:41		<input type="checkbox"/>
106	L8VHK	G0J210484-1	0299248	2A	1.0 10/26/10 21:44		<input type="checkbox"/>
107	L8VHKP5	G0J210484	0299248		5.0 10/26/10 21:47		<input type="checkbox"/>
108	L8VHKZ	G0J210484-1	0299248		1.0 10/26/10 21:50		<input type="checkbox"/>
109	L8VHM	G0J210484-2	0299248	2A	1.0 10/26/10 21:53		<input type="checkbox"/>
110	CCV 19				1.0 10/26/10 21:56		<input type="checkbox"/>
111	CCB 19				1.0 10/26/10 21:59		<input type="checkbox"/>
112	CCV 20				1.0 10/26/10 22:02		<input type="checkbox"/>
113	CCB 20				1.0 10/26/10 22:04		<input type="checkbox"/>
114	L8VHN	G0J210484-3	0299248	2A	1.0 10/26/10 22:07		<input type="checkbox"/>
115	L8VHQ	G0J210484-4	0299248	2A	1.0 10/26/10 22:10		<input type="checkbox"/>
116	L8VHT	G0J210484-5	0299248	2A	1.0 10/26/10 22:13		<input type="checkbox"/>
117	L8VHW	G0J210484-6	0299248	2A	1.0 10/26/10 22:16		<input type="checkbox"/>
118	L8VHX	G0J210484-7	0299248	2A	1.0 10/26/10 22:19		<input type="checkbox"/>
119	L8VH0	G0J210484-8	0299248	2A	1.0 10/26/10 22:22		<input type="checkbox"/>
120	L8VH2	G0J210484-9	0299248	2A	1.0 10/26/10 22:25		<input type="checkbox"/>
121	CCV 21				1.0 10/26/10 22:28		<input type="checkbox"/>
122	CCB 21				1.0 10/26/10 22:31		<input type="checkbox"/>

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

M01 (M01)

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 3X	10/26/10 14:30	99.0	99.9	100.5	100.2	<input type="checkbox"/>
2	Blank	10/26/10 14:34	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
3	Standard1	10/26/10 14:39	99.6	97.3	107.3	97.9	<input checked="" type="checkbox"/>
4	ICV	10/26/10 14:43	99.4	97.4	107.0	96.8	<input checked="" type="checkbox"/>
5	ICB	10/26/10 14:48	99.8	99.0	107.3	98.8	<input checked="" type="checkbox"/>
6	LLSTD1	10/26/10 14:52	101.2	99.4	106.2	99.1	<input checked="" type="checkbox"/>
7	LLSTD1	10/26/10 14:58	100.9	99.2	106.3	98.8	<input checked="" type="checkbox"/>
8	ICSA	10/26/10 15:02	93.4	90.7	89.9	84.5	<input checked="" type="checkbox"/>
9	ICSAB	10/26/10 15:06	94.1	91.7	90.2	84.3	<input checked="" type="checkbox"/>
10	Rinse	10/26/10 15:16	105.7	103.8	113.4	100.2	<input checked="" type="checkbox"/>
11	CCV 1	10/26/10 15:23	102.9	99.8	115.4	97.1	<input checked="" type="checkbox"/>
12	CCB 1	10/26/10 15:27	103.4	101.0	113.9	98.6	<input checked="" type="checkbox"/>
13	CCV 2	10/26/10 15:31	102.6	98.6	114.5	96.9	<input checked="" type="checkbox"/>
14	CCB 2	10/26/10 15:36	102.9	100.9	114.5	97.9	<input checked="" type="checkbox"/>
15	L8JJ7B	10/26/10 15:40	104.5	104.6	111.7	101.8	<input checked="" type="checkbox"/>
16	L8JJ7C	10/26/10 15:45	102.7	102.2	112.9	99.8	<input checked="" type="checkbox"/>
17	L8JJ7L	10/26/10 15:49	105.3	106.9	119.7	105.5	<input checked="" type="checkbox"/>
18	L779A	10/26/10 15:53	105.4	106.5	114.8	103.4	<input checked="" type="checkbox"/>
19	L779AP5	10/26/10 15:58	107.0	106.0	115.3	103.3	<input type="checkbox"/>
20	L779AZ	10/26/10 16:02	104.3	105.4	116.6	102.1	<input checked="" type="checkbox"/>
21	CCV 3	10/26/10 16:07	102.1	101.0	117.7	100.4	<input checked="" type="checkbox"/>
22	CCB 3	10/26/10 16:11	104.6	103.8	115.6	103.0	<input checked="" type="checkbox"/>
23	CCV 4	10/26/10 16:16	103.9	102.6	117.5	101.4	<input checked="" type="checkbox"/>
24	CCB 4	10/26/10 16:20	105.9	104.6	114.1	102.1	<input checked="" type="checkbox"/>
25	L822QB	10/26/10 16:24	106.7	107.7	112.0	105.6	<input checked="" type="checkbox"/>
26	L822QC	10/26/10 16:29	105.4	106.9	116.3	104.8	<input checked="" type="checkbox"/>
27	L822LL	10/26/10 16:33	104.8	105.1	114.6	103.1	<input checked="" type="checkbox"/>
28	L8T2G	10/26/10 16:38	105.5	106.4	112.6	104.1	<input checked="" type="checkbox"/>
29	L8T2GP5	10/26/10 16:42	106.1	104.8	114.8	102.9	<input type="checkbox"/>
30	L8T2GZ	10/26/10 16:46	103.8	105.0	116.3	102.6	<input checked="" type="checkbox"/>
31	L8T2J	10/26/10 16:51	105.0	105.7	113.0	103.8	<input checked="" type="checkbox"/>
32	L8T2K	10/26/10 16:55	106.1	106.3	114.8	104.6	<input checked="" type="checkbox"/>
33	CCV 5	10/26/10 17:00	104.3	101.8	117.2	99.9	<input checked="" type="checkbox"/>
34	CCB 5	10/26/10 17:04	105.5	104.1	119.3	101.2	<input checked="" type="checkbox"/>
35	CCV 6	10/26/10 17:08	104.8	102.8	117.9	101.1	<input checked="" type="checkbox"/>
36	CCB 6	10/26/10 17:13	105.4	104.1	117.0	102.3	<input checked="" type="checkbox"/>
37	L8T2L	10/26/10 17:17	105.0	106.2	116.9	104.3	<input checked="" type="checkbox"/>
38	L8T2M	10/26/10 17:22	105.5	105.9	115.9	104.7	<input checked="" type="checkbox"/>
39	L8T2N	10/26/10 17:26	106.4	107.1	119.0	105.9	<input checked="" type="checkbox"/>
40	L8T2P	10/26/10 17:31	105.0	105.7	116.4	103.1	<input checked="" type="checkbox"/>
41	L8T2Q	10/26/10 17:35	105.6	106.0	116.4	103.8	<input checked="" type="checkbox"/>
42	LLSTD1	10/26/10 17:39	106.3	104.6	118.7	102.0	<input checked="" type="checkbox"/>
43	LLSTD2	10/26/10 17:44	107.4	105.1	117.9	101.7	<input checked="" type="checkbox"/>
44	ICSA	10/26/10 17:48	98.4	94.6	91.9	86.9	<input checked="" type="checkbox"/>
45	ICSAB	10/26/10 17:53	97.9	94.9	92.7	87.3	<input checked="" type="checkbox"/>
46	CCV 7	10/26/10 18:01	107.4	104.4	117.6	100.9	<input checked="" type="checkbox"/>

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

M01 (M01)

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
47	CCB 7	10/26/10 18:05	108.1	105.2	117.1	101.7	<input checked="" type="checkbox"/>
48	CCV 8	10/26/10 18:10	106.8	103.9		101.1	<input checked="" type="checkbox"/>
49	CCB 8	10/26/10 18:13	107.6	105.4		102.9	<input checked="" type="checkbox"/>
50	CCV 9	10/26/10 18:17	106.6	103.7		101.0	<input checked="" type="checkbox"/>
51	CCB 9	10/26/10 18:21	106.2	104.1		102.5	<input checked="" type="checkbox"/>
52	L8GPLB	10/26/10 18:25	106.1	106.6		104.2	<input checked="" type="checkbox"/>
53	L8GPLC	10/26/10 18:29	104.8	105.9		103.1	<input checked="" type="checkbox"/>
54	L8GPLL	10/26/10 18:32	103.4	104.2		102.5	<input checked="" type="checkbox"/>
55	L77L1	10/26/10 18:36	104.3	105.8		103.0	<input checked="" type="checkbox"/>
56	L77L1P5	10/26/10 18:40	107.1	104.3		102.9	<input type="checkbox"/>
57	L77L1Z	10/26/10 18:44	103.6	104.4		101.2	<input checked="" type="checkbox"/>
58	L77L2	10/26/10 18:48	105.6	105.4		102.2	<input checked="" type="checkbox"/>
59	L77L3	10/26/10 18:51	106.4	106.4		102.1	<input checked="" type="checkbox"/>
60	L77L4	10/26/10 18:55	108.3	108.8		104.9	<input checked="" type="checkbox"/>
61	L77L5	10/26/10 18:59	108.6	108.2		104.9	<input checked="" type="checkbox"/>
62	CCV 10	10/26/10 19:03	106.5	104.0		101.5	<input checked="" type="checkbox"/>
63	CCB 10	10/26/10 19:07	106.0	104.6		102.0	<input checked="" type="checkbox"/>
64	CCV 11	10/26/10 19:10	105.4	102.3		100.4	<input checked="" type="checkbox"/>
65	CCB 11	10/26/10 19:14	105.1	103.2		101.8	<input checked="" type="checkbox"/>
66	L822LB	10/26/10 19:18	104.9	105.3		104.4	<input checked="" type="checkbox"/>
67	L8LDL	10/26/10 19:22	105.7	105.3		104.1	<input checked="" type="checkbox"/>
68	L8LDLP5	10/26/10 19:26	106.4	103.6		102.9	<input type="checkbox"/>
69	L8LDLZ	10/26/10 19:29	102.9	104.3		102.9	<input checked="" type="checkbox"/>
70	L8LDM	10/26/10 19:33	103.5	104.1		103.7	<input checked="" type="checkbox"/>
71	L8LDN	10/26/10 19:37	105.4	105.6		103.0	<input checked="" type="checkbox"/>
72	L8LDP	10/26/10 19:41	104.7	105.8		103.3	<input checked="" type="checkbox"/>
73	L8LDQ	10/26/10 19:45	107.1	106.8		105.2	<input checked="" type="checkbox"/>
74	CCV 12	10/26/10 19:49	105.7	103.3		101.4	<input checked="" type="checkbox"/>
75	CCB 12	10/26/10 19:52	105.7	103.6		102.9	<input checked="" type="checkbox"/>
76	CCV 13	10/26/10 19:56	104.5	101.6		100.5	<input checked="" type="checkbox"/>
77	CCB 13	10/26/10 20:00	104.0	102.4		101.1	<input checked="" type="checkbox"/>
78	L81FKB	10/26/10 20:04	103.3	105.9		106.3	<input checked="" type="checkbox"/>
79	L81FKC	10/26/10 20:08	101.6	104.6		103.7	<input checked="" type="checkbox"/>
80	L81FKL	10/26/10 20:12	102.3	103.8		104.3	<input checked="" type="checkbox"/>
81	L76K8	10/26/10 20:15	101.7	105.2		107.0	<input checked="" type="checkbox"/>
82	L76K8P5	10/26/10 20:19	103.6	102.9		103.4	<input type="checkbox"/>
83	L76K8X	10/26/10 20:23	102.7	104.9		106.8	<input checked="" type="checkbox"/>
84	L76K8Z	10/26/10 20:27	102.6	103.6		103.1	<input checked="" type="checkbox"/>
85	CCV 14	10/26/10 20:30	102.1	99.5		99.4	<input checked="" type="checkbox"/>
86	CCB 14	10/26/10 20:34	102.0	100.1		99.2	<input checked="" type="checkbox"/>
87	CCV 15	10/26/10 20:38	101.6	99.0		98.9	<input checked="" type="checkbox"/>
88	CCB 15	10/26/10 20:42	101.6	100.7		100.2	<input checked="" type="checkbox"/>
89	L76LH	10/26/10 20:46	102.6	103.7		103.7	<input checked="" type="checkbox"/>
90	L76LHX	10/26/10 20:49	103.5	104.4		105.4	<input checked="" type="checkbox"/>
91	L76LN	10/26/10 20:53	103.4	105.1		107.0	<input checked="" type="checkbox"/>
92	L76LT	10/26/10 20:57	103.1	104.5		105.2	<input checked="" type="checkbox"/>

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

M01 (M01)

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
93	L76LX	10/26/10 21:01	104.1	105.1		106.0	<input checked="" type="checkbox"/>
94	L76L1	10/26/10 21:05	101.3	101.6		102.6	<input checked="" type="checkbox"/>
95	L76L2	10/26/10 21:08	102.7	102.9		104.9	<input checked="" type="checkbox"/>
96	L76L7	10/26/10 21:12	103.8	105.0		106.0	<input checked="" type="checkbox"/>
97	CCV 16	10/26/10 21:16	102.9	99.9		99.5	<input checked="" type="checkbox"/>
98	CCB 16	10/26/10 21:20	102.6	99.6		100.6	<input checked="" type="checkbox"/>
99	CCV 17	10/26/10 21:24	103.5				<input checked="" type="checkbox"/>
100	CCB 17	10/26/10 21:27	103.8				<input checked="" type="checkbox"/>
101	CCV 18	10/26/10 21:30	103.9				<input checked="" type="checkbox"/>
102	CCB 18	10/26/10 21:33	103.4				<input checked="" type="checkbox"/>
103	L84F1B	10/26/10 21:35	104.3				<input checked="" type="checkbox"/>
104	L84F1C	10/26/10 21:38	103.6				<input checked="" type="checkbox"/>
105	L84F1L	10/26/10 21:41	102.5				<input checked="" type="checkbox"/>
106	L8VHK	10/26/10 21:44	103.0				<input checked="" type="checkbox"/>
107	L8VHKP5	10/26/10 21:47	104.1				<input type="checkbox"/>
108	L8VHKZ	10/26/10 21:50	102.7				<input checked="" type="checkbox"/>
109	L8VHM	10/26/10 21:53	104.2				<input checked="" type="checkbox"/>
110	CCV 19	10/26/10 21:56	103.4				<input checked="" type="checkbox"/>
111	CCB 19	10/26/10 21:59	103.9				<input checked="" type="checkbox"/>
112	CCV 20	10/26/10 22:02	103.1				<input checked="" type="checkbox"/>
113	CCB 20	10/26/10 22:04	102.9				<input checked="" type="checkbox"/>
114	L8VHN	10/26/10 22:07	104.1				<input checked="" type="checkbox"/>
115	L8VHQ	10/26/10 22:10	104.3				<input checked="" type="checkbox"/>
116	L8VHT	10/26/10 22:13	105.0				<input checked="" type="checkbox"/>
117	L8VHW	10/26/10 22:16	104.0				<input checked="" type="checkbox"/>
118	L8VHX	10/26/10 22:19	104.1				<input checked="" type="checkbox"/>
119	L8VH0	10/26/10 22:22	104.2				<input checked="" type="checkbox"/>
120	L8VH2	10/26/10 22:25	105.4				<input checked="" type="checkbox"/>
121	CCV 21	10/26/10 22:28	103.8				<input checked="" type="checkbox"/>
122	CCB 21	10/26/10 22:31	103.7				<input checked="" type="checkbox"/>

TAL-W.SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 0288259.mth
 File Path: C:\elandata\Method\0288259.mth

Timing Parameters

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

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
V	50.944	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Se	81.917	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Ag	106.905	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Tl	204.975	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	20.0 ms	1000 ms
Se	77.917	Peak Hopping	1	20.0 ms	1000 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
Ag	108.905	Peak Hopping	1	5.0 ms	250 ms

In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	83.912	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

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

Equations

Analyte	Mass	Corrections
V	50.944	-3.108 * Cr 53 + 0.3524 * Cr 52
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
Zn	67.925	-0.03 * Ba 136
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00229 * Br 79
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Se	75.919	- 0.268980 * Ge 72
Se	77.917	- 0.030435 * Kr 83
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118
Pd	105.903	- 0.097656 * Cd 111
Kr	83.912	- 0.006781 * Sr 88

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
V	50.944	Linear Thru Zero	ug/L	ug/L	100			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			

Cu	64.928	Linear Thru Zero	ug/L	ug/L	100
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100
As	74.922	Linear Thru Zero	ug/L	ug/L	100
Se	81.917	Linear Thru Zero	ug/L	ug/L	100
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Ag	106.905	Linear Thru Zero	ug/L	ug/L	50
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100
In-1	114.904	Linear Thru Zero	ug/L	ug/L	
Tl	204.975	Linear Thru Zero	ug/L	ug/L	50
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Se	75.919	Linear Thru Zero	ug/L	ug/L	100
Se	76.920	Linear Thru Zero	ug/L	ug/L	100
Se	77.917	Linear Thru Zero	ug/L	ug/L	100
Br	78.918	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100
Ag	108.905	Linear Thru Zero	ug/L	ug/L	50
In	114.904	Linear Thru Zero	ug/L	ug/L	
207.97	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	
Pd	105.903	Linear Thru Zero	ug/L	ug/L	
Kr	83.912	Linear Thru Zero	ug/L	ug/L	

TAL-W. SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO₃, 0.5 % HCl

Standards for run:

Tuning standard: 4075-6A

Internal standard: 4075-21B

Blank, CCBs: 3185-40E

Standard 1, CCVs: 4075-14C

ICV: 4075-20D

ICSA: 4075-20E

ICSAB: 4075-21A

File Number: 101026A1

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Tuesday, October 26, 2010 10:48:54

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.976	1557	0.737	2034	
Be	9.012	8.928	2039	0.730	2022	
Mg	23.985	23.929	5711	0.731	1977	
Co	58.933	58.979	14288	0.748	1882	
In	114.904	114.929	27957	0.740	1837	
Ce	139.905	139.928	34050	0.737	1877	
Tl	204.975	204.979	49755	0.728	2092	
Pb	207.977	207.979	50484	0.722	2109	
U	238.050	238.078	57712	0.715	2271	

Elan 6000 Instrument Optomization Report

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

Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Tuesday, October 26, 2010 10:48:54

Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.8
Lens Voltage	6.5
ICP RF Power	1050.0
Analog Stage Voltage	-1725.0
Pulse Stage Voltage	1300.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

AutoLens Calibration

Date:	10:54:14 Tue 26-Oct-10
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	101026A1\
Lens Voltage Start:	4.00 V
Lens Voltage End:	7.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0166
Intercept:	4.3244

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.5 V	8609 cps	13
Co	58.933	5.3 V	245992 cps	13
In	114.904	6.3 V	512815 cps	13

Dual Detector Calibration

Date:	10:01:58 Fri 22-Oct-10
Sample Filename:	DUAL BJONES.1145
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	7081	1.77e+009 cps
Li	7.016	6657	1.88e+009 cps

Report Date/Time: Tuesday, October 26, 2010 10:55:56

Page 1

TAL-W.SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8

Be	9.012	6040	2.07e+009 cps
B	11.009	6219	2.01e+009 cps
Na	22.990	6112	2.05e+009 cps
Mg	23.985	5618	2.23e+009 cps
Mg	24.986	5531	2.26e+009 cps
Al	26.982	5167	2.42e+009 cps
P	30.994	4922	2.54e+009 cps
K	38.964	4691	2.67e+009 cps
Ca	42.959		cps
Ca	43.956	4723	2.65e+009 cps
Sc	44.956	4725	2.65e+009 cps
V	50.944	4637	2.70e+009 cps
Cr	51.941	4382	2.86e+009 cps
Fe	53.940	4348	2.88e+009 cps
Mn	54.938	4322	2.90e+009 cps
Fe	56.935	4265	2.93e+009 cps
Co	58.933	4127	3.03e+009 cps
Ni	59.933	4029	3.11e+009 cps
Cu	62.930	3918	3.19e+009 cps
Cu	64.928	3887	3.22e+009 cps
Zn	67.925	3922	3.19e+009 cps
Ge	71.922	4011	3.12e+009 cps
As	74.922	3836	3.26e+009 cps
Se	77.917	4019	3.11e+009 cps
Br	78.918		cps
Se	81.917	3958	3.16e+009 cps
Sr	87.906		cps
Mo	96.906	4023	3.11e+009 cps
Ag	106.905	3600	3.48e+009 cps
Ag	108.905	3582	3.49e+009 cps
Cd	110.904	3610	3.47e+009 cps
Cd	113.904	3607	3.47e+009 cps
In	114.904	3627	3.45e+009 cps
Sn	117.902	3654	3.43e+009 cps
Sb	120.904	3671	3.41e+009 cps
Ba	134.906	3546	3.53e+009 cps
Tm	168.934	3412	3.67e+009 cps
Tl	204.975	3199	3.91e+009 cps
Pb	207.977	3188	3.93e+009 cps
Bi	208.980		cps
U	238.050	3212	3.90e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
 Sample Date/Time: Tuesday, October 26, 2010 10:56:18
 Sample Description:
 Sample File: C:\elandata\Sample\0294193R.sam
 Method File: C:\elandata\Method\000-DAILY_EPA.mth
 Dataset File: C:\elandata\Dataset\101026A1\DAILY BJONES.003
 Tuning File: c:\elandata\Tuning\default.tun
 Optimization File: C:\elandata\Optimize\default.dac
 Number of Replicates: 5
 Dual Detector Mode: Dual

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	85563.940	645.548	0.754
Rh	103	343894.220	2191.869	0.637
Pb	208	217442.907	2676.548	1.231
[> Ba	138	364327.399	3136.832	0.861
[Ba++	69	0.034	0.000	1.437
[> Ce	140	458825.447	4021.826	0.877
[CeO	156	0.033	0.001	2.410
Bkgd	220	11.429	1.010	8.839
Li	7	20377.960	265.813	1.304
Be	9	6242.143	89.144	1.428
Co	59	178727.898	1519.376	0.850
In	115	482568.880	2380.455	0.493
Tl	205	309335.564	3290.724	1.064

Sample ID: L779A N.I.

Sample Description: G0J090430-3 N.I.

Batch ID: 0288259

Sample Date/Time: Tuesday, October 26, 2010 14:04:16

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L779A N.I..004

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

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

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			739.554	ug/L	0.000
45 Sc			51561.082	ug/L	0.000
69 Ga			76307.520	ug/L	0.000
72 Ge			9969.750	ug/L	0.000
89 Y			34192.278	ug/L	0.000
103 Rh			300.957	ug/L	0.000
115 In			1307.362	ug/L	0.000
133 Cs			5887.144	ug/L	0.000
165 Ho			1462.022	ug/L	0.000
169 Tm			971.480	ug/L	0.000
209 Bi			14702.356	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

Sample ID: L8T2G N.I.

Sample Description: G0J210431-1 N.I.

Batch ID: 0298338

Sample Date/Time: Tuesday, October 26, 2010 14:07:08

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L8T2G N.I..005

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

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

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			360.483	ug/L	0.000
45 Sc			24999.091	ug/L	0.000
69 Ga			5681.301	ug/L	0.000
72 Ge			1680.634	ug/L	0.000
89 Y			1211.509	ug/L	0.000
103 Rh			42.381	ug/L	0.000
115 In			771.348	ug/L	0.000
133 Cs			648.595	ug/L	0.000
165 Ho			59.524	ug/L	0.000
169 Tm			405.247	ug/L	0.000
209 Bi			711.933	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

Sample ID: L77L1 N.I.

Sample Description: G0J080620-1 N.I.

Batch ID: 0287371

Sample Date/Time: Tuesday, October 26, 2010 14:09:59

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L77L1 N.I..006

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

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

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			592.400	ug/L	0.000
45 Sc			44784.918	ug/L	0.000
69 Ga			24615.675	ug/L	0.000
72 Ge			2578.938	ug/L	0.000
89 Y			34950.872	ug/L	0.000
103 Rh			113.334	ug/L	0.000
115 In			766.362	ug/L	0.000
133 Cs			14297.426	ug/L	0.000
165 Ho			1653.007	ug/L	0.000
169 Tm			875.757	ug/L	0.000
209 Bi			1958.783	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

Sample ID: L8LDL N.I.

Sample Description: G0J150624-1 N.I.

Batch ID: 0298335

Sample Date/Time: Tuesday, October 26, 2010 14:12:51

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L8LDL N.I..007

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

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

Autosampler Position: 30

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			511.443	ug/L	0.000
45 Sc			35923.231	ug/L	0.000
69 Ga			14302.681	ug/L	0.000
72 Ge			1994.505	ug/L	0.000
89 Y			13847.684	ug/L	0.000
103 Rh			74.286	ug/L	0.000
115 In			738.291	ug/L	0.000
133 Cs			6013.417	ug/L	0.000
165 Ho			658.595	ug/L	0.000
169 Tm			547.636	ug/L	0.000
209 Bi			1258.659	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

Sample ID: L76K8 N.I.

Sample Description: G0J080498-1 N.I.

Batch ID: 0295399

Sample Date/Time: Tuesday, October 26, 2010 14:15:44

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L76K8 N.I..008

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

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

Autosampler Position: 31

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			1149.597	ug/L	0.000
45 Sc			19367.768	ug/L	0.000
69 Ga			4293.873	ug/L	0.000
72 Ge			1447.734	ug/L	0.000
89 Y			189.526	ug/L	0.000
103 Rh			59.524	ug/L	0.000
115 In			4238.003	ug/L	0.000
133 Cs			139.049	ug/L	0.000
165 Ho			17.619	ug/L	0.000
169 Tm			379.532	ug/L	0.000
209 Bi			69641.447	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

Sample ID: L8VHK N.I.

Sample Description: G0J210484-1 N.I.

Batch ID: 0299248

Sample Date/Time: Tuesday, October 26, 2010 14:18:37

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHK N.I..009

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

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

Autosampler Position: 32

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			496.680	ug/L	0.000
45 Sc			35163.124	ug/L	0.000
69 Ga			24164.458	ug/L	0.000
72 Ge			2039.277	ug/L	0.000
89 Y			16987.285	ug/L	0.000
103 Rh			85.715	ug/L	0.000
115 In			667.514	ug/L	0.000
133 Cs			3788.885	ug/L	0.000
165 Ho			631.927	ug/L	0.000
169 Tm			565.256	ug/L	0.000
209 Bi			2873.311	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	102.097
Sc	45	
Ga	69	
Ge	72	
Y	89	100.362
Rh	103	
In	115	100.362
Cs	133	
Ho	165	
Tm	169	100.362
Bi	209	

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse 3X

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:30:17

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\Rinse 3X.010

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

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

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1451161.186	ug/L	1450250.515
> 6 Li-1			738267.204	ug/L	734821.087
[9 Be	0.005570	113.322	6.667	ug/L	4.000
[27 Al	-15.018070	0.275	9607.252	ug/L	130527.605
[44 Ca	7.070139	31.582	51798.985	ug/L	49646.588
[51 V	0.110584	250.088	-13601.232	ug/L	-15264.386
[52 Cr	0.056172	111.390	25038.850	ug/L	24602.149
[55 Mn	-0.094440	1.946	2767.268	ug/L	4671.715
[54 Fe	1.109720	298.535	104208.041	ug/L	104203.515
[57 Fe	1.128588	86.969	12635.030	ug/L	12317.824
[59 Co	-0.000080	683.230	83.667	ug/L	85.667
[60 Ni	-0.007857	91.568	193.121	ug/L	219.228
[65 Cu	0.000968	904.692	192.892	ug/L	191.958
[68 Zn	0.020253	149.547	1388.630	ug/L	1379.571
[75 As	-0.126899	80.734	14146.723	ug/L	14659.935
[82 Se	-0.077675	371.946	1505.787	ug/L	1542.422
> 72 Ge-1			1344521.022	ug/L	1358190.823
[107 Ag	-0.000935	29.142	28.333	ug/L	39.000
[111 Cd	-0.002486	148.333	20.263	ug/L	26.863
[121 Sb	0.000007	32775.951	204.670	ug/L	204.670
[135 Ba	0.001164	123.991	67.667	ug/L	65.000
> 115 In-1			1210635.084	ug/L	1211499.522
[205 Tl	0.000697	159.535	438.348	ug/L	423.014
[208 Pb	-0.001607	39.716	243.669	ug/L	288.002
> 169 Tm-1			825089.978	ug/L	823579.508
[50 Cr	-0.181632	53.264	-1013.021	ug/L	-979.266
[53 Cr	2.573253	68.695	132521.486	ug/L	130001.298
[61 Ni	2.774462	14.598	2343.541	ug/L	2226.757
[63 Cu	-0.001053	163.935	150.338	ug/L	154.339
[67 Zn	1.161258	177.864	3868.295	ug/L	3783.149
[66 Zn	-0.013994	111.814	190.008	ug/L	200.342
[76 Se	3.663831	840.618	-191419.823	ug/L	-193571.141
[77 Se	0.342376	228.198	9309.431	ug/L	9328.119
[78 Se	0.167754	115.969	15350.228	ug/L	15388.814
[79 Br	1.532320	79.325	66680.351	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:02

Page 1

Sample ID: Rinse 3X

>	72 Ge			1344521.022	ug/L	1358190.823
[	108 Cd	-0.002280	871.546	7.655	ug/L	8.075
|	114 Cd	-0.001941	63.301	22.835	ug/L	35.023
|	109 Ag	-0.000937	39.849	9.667	ug/L	13.333
>	115 In			1210635.084	ug/L	1211499.522
[	208 207.977	-0.000035	4917.084	134.001	ug/L	134.335
|	207 Pb	-0.002509	54.586	50.667	ug/L	65.334
|	206 Pb	-0.003788	48.242	59.000	ug/L	88.334
>	169 Tm			825089.978	ug/L	823579.508
|	106 Pd			21.007	ug/L	27.283
|	84 Kr			5241.829	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery	
Sc	45		
>	Li-1	6	100.469
[	Be	9	
|	Al	27	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
>	Ge-1	72	98.994
[	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
>	In-1	115	99.929
[	Tl	205	
|	Pb	208	
>	Tm-1	169	100.183
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	98.994
[	Cd	108	
|	Cd	114	
|	Ag	109	
>	In	115	99.929
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.183
|	Pd	106	
|	Kr	84	

Report Date/Time: Tuesday, October 26, 2010 15:10:02

Page 2

Sample ID: Rinse 3X

SOP No. SAC-MT-0001

BJones

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:34:59

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\Blank.011

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1450250.515	ug/L	
> 6 Li-1			734821.087	ug/L	
9 Be			4.000	ug/L	
27 Al			130527.605	ug/L	
44 Ca			49646.588	ug/L	
51 V			-15264.386	ug/L	
52 Cr			24602.149	ug/L	
55 Mn			4671.715	ug/L	
54 Fe			104203.515	ug/L	
57 Fe			12317.824	ug/L	
59 Co			85.667	ug/L	
60 Ni			219.228	ug/L	
65 Cu			191.958	ug/L	
68 Zn			1379.571	ug/L	
75 As			14659.935	ug/L	
82 Se			1542.422	ug/L	
> 72 Ge-1			1358190.823	ug/L	
107 Ag			39.000	ug/L	
111 Cd			26.863	ug/L	
121 Sb			204.670	ug/L	
135 Ba			65.000	ug/L	
> 115 In-1			1211499.522	ug/L	
205 Tl			423.014	ug/L	
208 Pb			288.002	ug/L	
> 169 Tm-1			823579.508	ug/L	
50 Cr			-979.266	ug/L	
53 Cr			130001.298	ug/L	
61 Ni			2226.757	ug/L	
63 Cu			154.339	ug/L	
67 Zn			3783.149	ug/L	
66 Zn			200.342	ug/L	
76 Se			-193571.141	ug/L	
77 Se			9328.119	ug/L	
78 Se			15388.814	ug/L	
79 Br			65678.079	ug/L	

Report Date/Time: Tuesday, October 26, 2010 15:10:06

Page 1

Sample ID: Blank

>	72 Ge	1358190.823	ug/L
|	108 Cd	8.075	ug/L
|	114 Cd	35.023	ug/L
|	109 Ag	13.333	ug/L
>	115 In	1211499.522	ug/L
|	208 207.977	134.335	ug/L
|	207 Pb	65.334	ug/L
|	206 Pb	88.334	ug/L
>	169 Tm	823579.508	ug/L
|	106 Pd	27.283	ug/L
|	84 Kr	5265.529	ug/L

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
>	Li-1	6
|	Be	9
|	Al	27
|	Ca	44
|	V	51
|	Cr	52
|	Mn	55
|	Fe	54
|	Fe	57
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
|	Se	82
>	Ge-1	72
|	Ag	107
|	Cd	111
|	Sb	121
|	Ba	135
>	In-1	115
|	Tl	205
|	Pb	208
>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
|	Cd	108
|	Cd	114
|	Ag	109
>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	84

SOP No. SAC-MT-0001

BJones

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:39:36

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\Standard 1.012

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1459895.349	ug/L	1450250.515
> 6 Li-1			788657.414	ug/L	734821.087
9 Be	100.000000	1.068	50385.361	ug/L	4.000
27 Al	5100.000000	0.527	40980259.530	ug/L	130527.605
44 Ca	5100.000000	0.660	1975198.305	ug/L	49646.588
51 V	100.000000	0.788	1370924.013	ug/L	-15264.386
52 Cr	100.000000	0.397	1254969.662	ug/L	24602.149
55 Mn	100.000000	0.906	1982562.419	ug/L	4671.715
54 Fe	5100.000000	0.601	5028643.960	ug/L	104203.515
57 Fe	5100.000000	1.697	2023709.642	ug/L	12317.824
59 Co	100.000000	1.039	1419246.545	ug/L	85.667
60 Ni	100.000000	1.264	307079.895	ug/L	219.228
65 Cu	100.000000	0.940	307329.678	ug/L	191.958
68 Zn	100.000000	0.523	116013.180	ug/L	1379.571
75 As	100.000000	0.723	303980.444	ug/L	14659.935
82 Se	100.000000	1.471	29153.705	ug/L	1542.422
> 72 Ge-1			1352242.575	ug/L	1358190.823
107 Ag	50.000000	0.741	554155.602	ug/L	39.000
111 Cd	100.000000	0.509	256695.062	ug/L	26.863
121 Sb	50.000000	0.335	428182.573	ug/L	204.670
135 Ba	100.000000	0.243	227548.734	ug/L	65.000
> 115 In-1			1178818.403	ug/L	1211499.522
205 Tl	50.000000	2.735	1017069.664	ug/L	423.014
208 Pb	100.000000	1.527	2724387.882	ug/L	288.002
> 169 Tm-1			805887.454	ug/L	823579.508
50 Cr	100.000000	2.985	23188.489	ug/L	-979.266
53 Cr	100.000000	1.125	279498.160	ug/L	130001.298
61 Ni	100.000000	1.046	7265.931	ug/L	2226.757
63 Cu	100.000000	1.125	232853.851	ug/L	154.339
67 Zn	100.000000	1.541	14515.888	ug/L	3783.149
66 Zn	100.000000	0.646	60255.651	ug/L	200.342
76 Se	100.000000	15.345	-186942.263	ug/L	-193571.141
77 Se	100.000000	1.583	31559.361	ug/L	9328.119
78 Se	100.000000	1.279	85302.411	ug/L	15388.814
79 Br	100.000000	21.851	174785.487	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:09

Page 1

Sample ID: Standard 1

>	72 Ge			1352242.575	ug/L	1358190.823
[	108 Cd	100.000000	1.183	17860.996	ug/L	8.075
|	114 Cd	100.000000	0.642	611525.216	ug/L	35.023
|	109 Ag	50.000000	0.710	190416.381	ug/L	13.333
>	115 In			1178818.403	ug/L	1211499.522
[	208 207.977	100.000000	1.385	1388090.998	ug/L	134.335
|	207 Pb	100.000000	1.814	573860.044	ug/L	65.334
|	206 Pb	100.000000	1.580	762436.840	ug/L	88.334
>	169 Tm			805887.454	ug/L	823579.508
|	106 Pd			-2499.181	ug/L	27.283
|	84 Kr			5142.378	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	
[Tl	205	
| Pb	208	
> Tm-1	169	
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:43:55

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\ICV .013

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

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

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1466870.262	ug/L	1450250.515
> 6 Li-1			786178.832	ug/L	734821.087
[9 Be	82.059382	1.358	41215.039	ug/L	4.000
[27 Al	802.783524	1.877	6551176.997	ug/L	130527.605
[44 Ca	889.263501	1.163	384721.095	ug/L	49646.588
[51 V	82.272866	2.025	1123562.294	ug/L	-15264.386
[52 Cr	83.612760	1.327	1051912.005	ug/L	24602.149
[55 Mn	82.194977	1.172	1628272.911	ug/L	4671.715
[54 Fe	858.256107	1.723	931280.979	ug/L	104203.515
[57 Fe	852.300241	1.064	347971.492	ug/L	12317.824
[59 Co	85.501461	1.137	1211975.866	ug/L	85.667
[60 Ni	83.413019	0.883	255858.915	ug/L	219.228
[65 Cu	84.583417	1.198	259639.855	ug/L	191.958
[68 Zn	84.528943	1.819	98148.080	ug/L	1379.571
[75 As	81.224460	1.720	249313.860	ug/L	14659.935
[82 Se	84.162939	0.796	24749.653	ug/L	1542.422
> [72 Ge-1			1350577.852	ug/L	1358190.823
[107 Ag	41.397254	1.945	459162.615	ug/L	39.000
[111 Cd	82.859467	1.419	212880.555	ug/L	26.863
[121 Sb	38.658106	4.352	331272.102	ug/L	204.670
[135 Ba	82.096943	1.561	186975.433	ug/L	65.000
> [115 In-1			1180019.713	ug/L	1211499.522
[205 Tl	43.696131	1.396	879265.703	ug/L	423.014
[208 Pb	85.654046	1.837	2307808.538	ug/L	288.002
> [169 Tm-1			796994.391	ug/L	823579.508
[50 Cr	78.582457	3.317	17984.165	ug/L	-979.266
[53 Cr	79.192798	3.200	247966.627	ug/L	130001.298
[61 Ni	78.826921	0.843	6188.748	ug/L	2226.757
[63 Cu	83.702776	1.577	194677.233	ug/L	154.339
[67 Zn	79.638425	3.144	12310.596	ug/L	3783.149
[66 Zn	84.081593	0.862	50633.189	ug/L	200.342
[76 Se	85.243058	11.487	-187563.848	ug/L	-193571.141
[77 Se	79.387504	1.399	26933.173	ug/L	9328.119
[78 Se	83.156349	1.104	73421.990	ug/L	15388.814
[79 Br	3.125297	50.388	68743.183	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:12

Page 1

Sample ID: ICV

>	72 Ge			1350577.852	ug/L	1358190.823
[	108 Cd	80.690889	2.270	14424.041	ug/L	8.075
|	114 Cd	82.586437	1.973	505450.850	ug/L	35.023
|	109 Ag	41.470832	1.828	158061.306	ug/L	13.333
>	115 In			1180019.713	ug/L	1211499.522
[	208 207.977	88.629512	2.125	1216625.335	ug/L	134.335
|	207 Pb	88.836769	1.689	504191.610	ug/L	65.334
|	206 Pb	77.841358	1.472	586991.593	ug/L	88.334
>	169 Tm			796994.391	ug/L	823579.508
|	106 Pd			-1911.669	ug/L	27.283
|	84 Kr			5096.777	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	106.989
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	99.439
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	97.402
[Tl	205	
| Pb	208	
> Tm-1	169	96.772
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	99.439
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	97.402
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	96.772
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:48:21

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\ICB.014

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1471837.558	ug/L	1450250.515
> 6 Li-1			788273.917	ug/L	734821.087
[9 Be	0.006746	49.240	7.667	ug/L	4.000
[27 Al	1.447372	10.947	141828.411	ug/L	130527.605
[44 Ca	6.946582	56.680	52163.090	ug/L	49646.588
[51 V	-0.130237	229.636	-17053.868	ug/L	-15264.386
[52 Cr	0.197795	27.752	26984.796	ug/L	24602.149
[55 Mn	0.018209	54.971	5022.317	ug/L	4671.715
[54 Fe	2.401255	73.391	106282.352	ug/L	104203.515
[57 Fe	1.209608	27.636	12766.847	ug/L	12317.824
[59 Co	0.008608	25.102	208.003	ug/L	85.667
[60 Ni	0.006176	99.878	237.764	ug/L	219.228
[65 Cu	0.019855	31.879	252.686	ug/L	191.958
[68 Zn	-0.007804	552.561	1367.482	ug/L	1379.571
[75 As	0.234451	101.817	15307.673	ug/L	14659.935
[82 Se	0.030732	511.400	1547.437	ug/L	1542.422
> 72 Ge-1			1354959.904	ug/L	1358190.823
[107 Ag	0.005800	9.868	104.001	ug/L	39.000
[111 Cd	0.006242	54.813	42.851	ug/L	26.863
[121 Sb	0.390689	33.176	3595.744	ug/L	204.670
[135 Ba	0.013028	67.091	94.334	ug/L	65.000
> 115 In-1			1199124.470	ug/L	1211499.522
[205 Tl	0.111746	12.070	2710.247	ug/L	423.014
[208 Pb	0.010305	36.689	567.010	ug/L	288.002
> 169 Tm-1			813572.762	ug/L	823579.508
[50 Cr	-0.041721	642.497	-987.270	ug/L	-979.266
[53 Cr	2.843133	104.308	133984.552	ug/L	130001.298
[61 Ni	-1.459404	102.491	2147.682	ug/L	2226.757
[63 Cu	0.008745	79.402	174.340	ug/L	154.339
[67 Zn	0.040872	3290.242	3779.144	ug/L	3783.149
[66 Zn	-0.004280	578.112	197.342	ug/L	200.342
[76 Se	0.307391	7189.213	-193097.283	ug/L	-193571.141
[77 Se	0.246217	100.182	9360.817	ug/L	9328.119
[78 Se	-0.540104	7.383	14973.411	ug/L	15388.814
[79 Br	1.197030	27.355	66836.478	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:16

Page 1

Sample ID: ICB

>	72 Ge			1354959.904	ug/L	1358190.823
|	108 Cd	0.007068	674.771	9.249	ug/L	8.075
|	114 Cd	0.007109	43.862	78.777	ug/L	35.023
|	109 Ag	0.006501	33.507	38.334	ug/L	13.333
>	115 In			1199124.470	ug/L	1211499.522
|	208 207.977	0.010847	27.424	284.340	ug/L	134.335
|	207 Pb	0.011909	37.321	133.335	ug/L	65.334
|	206 Pb	0.008110	60.206	149.335	ug/L	88.334
>	169 Tm			813572.762	ug/L	823579.508
|	106 Pd			16.711	ug/L	27.283
|	84 Kr			5231.790	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
>	Li-1	6
|	Be	9
|	Al	27
|	Ca	44
|	V	51
|	Cr	52
|	Mn	55
|	Fe	54
|	Fe	57
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
|	Se	82
>	Ge-1	72
|	Ag	107
|	Cd	111
|	Sb	121
|	Ba	135
>	In-1	115
|	Ti	205
|	Pb	208
>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
|	Cd	108
|	Cd	114
|	Ag	109
>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	84

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD1

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:52:45

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\LLSTD1.015

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

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

Autosampler Position: 83

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1489533.552	ug/L	1450250.515
> 6 Li-1			780277.656	ug/L	734821.087
[9 Be	0.976059	6.077	490.686	ug/L	4.000
[27 Al x	84.040564	0.830	816402.258	ug/L	130527.605
[44 Ca	61.315396	2.273	73783.974	ug/L	49646.588
[51 V	10.485683	2.826	132299.919	ug/L	-15264.386
[52 Cr	1.177465	5.752	39628.382	ug/L	24602.149
[55 Mn	0.941519	0.388	23659.569	ug/L	4671.715
[54 Fe	49.535304	0.989	154092.553	ug/L	104203.515
[57 Fe	52.301340	1.231	33437.368	ug/L	12317.824
[59 Co	1.057862	0.689	15347.819	ug/L	85.667
[60 Ni	1.065816	2.829	3546.908	ug/L	219.228
[65 Cu	1.045091	0.774	3457.242	ug/L	191.958
[68 Zn	5.378320	2.997	7664.331	ug/L	1379.571
[75 As	0.937317	4.027	17595.065	ug/L	14659.935
[82 Se	1.030772	14.794	1850.565	ug/L	1542.422
> [72 Ge-1			1374622.013	ug/L	1358190.823
[107 Ag	0.634473	1.427	7222.096	ug/L	39.000
[111 Cd	1.726128	4.704	4552.791	ug/L	26.863
[121 Sb	0.548555	1.359	5000.965	ug/L	204.670
[135 Ba	1.001771	2.362	2392.783	ug/L	65.000
> [115 In-1			1204374.237	ug/L	1211499.522
[205 Tl	0.580834	0.776	12388.381	ug/L	423.014
[208 Pb	1.040139	1.013	28996.222	ug/L	288.002
> [169 Tm-1			816478.665	ug/L	823579.508
[50 Cr	0.457606	87.149	-878.597	ug/L	-979.266
[53 Cr	5.574201	31.044	140081.489	ug/L	130001.298
[61 Ni	0.031512	3508.631	2255.453	ug/L	2226.757
[63 Cu	1.050298	1.354	2640.867	ug/L	154.339
[67 Zn	5.236550	18.385	4401.260	ug/L	3783.149
[66 Zn	5.238192	2.271	3400.543	ug/L	200.342
[76 Se	-6.687080	31.996	-196305.308	ug/L	-193571.141
[77 Se	3.046172	15.223	10130.976	ug/L	9328.119
[78 Se	0.353057	32.637	15826.346	ug/L	15388.814
[79 Br	10.501600	4.146	78163.611	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:20

Page 1

Sample ID: LLSTD1

>	72 Ge			1374622.013	ug/L	1358190.823
[	108 Cd	11.892687	3.250	2177.414	ug/L	8.075
|	114 Cd	1.011406	1.127	6353.593	ug/L	35.023
|	109 Ag	0.520833	0.531	2039.581	ug/L	13.333
>	115 In			1204374.237	ug/L	1211499.522
[	208 207.977	1.083932	1.097	15377.224	ug/L	134.335
|	207 Pb	1.066291	2.581	6264.082	ug/L	65.334
|	206 Pb	0.940726	1.274	7354.915	ug/L	88.334
>	169 Tm			816478.665	ug/L	823579.508
|	106 Pd			5521.410	ug/L	27.283
|	84 Kr			5256.456	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	106.186
[Be	9	
[Al	27	
[Ca	44	
[V	51	
[Cr	52	
[Mn	55	
[Fe	54	
[Fe	57	
[Co	59	
[Ni	60	
[Cu	65	
[Zn	68	
[As	75	
[Se	82	
> Ge-1	72	101.210
[Ag	107	
[Cd	111	
[Sb	121	
[Ba	135	
> In-1	115	99.412
[Tl	205	
[Pb	208	
> Tm-1	169	99.138
[Cr	50	
[Cr	53	
[Ni	61	
[Cu	63	
[Zn	67	
[Zn	66	
[Se	76	
[Se	77	
[Se	78	
[Br	79	
> Ge	72	101.210
[Cd	108	
[Cd	114	
[Ag	109	
> In	115	99.412
[207.977	208	
[Pb	207	
[Pb	206	
> Tm	169	99.138
[Pd	106	
[Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD1

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 14:58:13

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\LLSTD1.016

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

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

Autosampler Position: 85

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1478288.145	ug/L	1450250.515
> 6 Li-1			781039.767	ug/L	734821.087
[9 Be	0.981322	6.973	494.019	ug/L	4.000
[27 Al	35.161949	1.182	416921.749	ug/L	130527.605
[44 Ca	61.712980	2.955	73673.014	ug/L	49646.588
[51 V	10.519677	0.926	132299.428	ug/L	-15264.386
[52 Cr	1.139222	1.855	39010.540	ug/L	24602.149
[55 Mn	0.936355	1.769	23473.558	ug/L	4671.715
[54 Fe	48.850642	3.799	152879.471	ug/L	104203.515
[57 Fe	51.775656	1.821	33110.935	ug/L	12317.824
[59 Co	1.055678	0.788	15262.281	ug/L	85.667
[60 Ni	1.026601	2.661	3412.626	ug/L	219.228
[65 Cu	1.058975	1.906	3488.031	ug/L	191.958
[68 Zn	5.364961	0.953	7621.397	ug/L	1379.571
[75 As	0.842434	25.711	17251.693	ug/L	14659.935
[82 Se	1.027203	2.168	1842.973	ug/L	1542.422
> 72 Ge-1			1369785.675	ug/L	1358190.823
[107 Ag	0.500672	1.133	5697.550	ug/L	39.000
[111 Cd	1.023447	4.359	2705.863	ug/L	26.863
[121 Sb	0.489627	1.035	4477.575	ug/L	204.670
[135 Ba	0.997626	3.947	2379.112	ug/L	65.000
> 115 In-1			1202274.597	ug/L	1211499.522
[205 Tl	0.553433	1.171	11786.908	ug/L	423.014
[208 Pb	1.035283	1.596	28771.039	ug/L	288.002
> 169 Tm-1			813937.610	ug/L	823579.508
[50 Cr	0.515296	93.979	-861.442	ug/L	-979.266
[53 Cr	5.515289	36.177	139508.102	ug/L	130001.298
[61 Ni	-0.723075	72.162	2208.740	ug/L	2226.757
[63 Cu	1.042141	1.757	2612.501	ug/L	154.339
[67 Zn	6.730811	16.006	4548.885	ug/L	3783.149
[66 Zn	5.145082	2.187	3332.108	ug/L	200.342
[76 Se	-22.839226	42.460	-196561.989	ug/L	-193571.141
[77 Se	3.237297	22.608	10138.986	ug/L	9328.119
[78 Se	0.503909	30.097	15876.922	ug/L	15388.814
[79 Br	10.982410	6.050	78421.500	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:23

Page 1

Sample ID: LLSTD1

>	72 Ge			1369785.675	ug/L	1358190.823
|	108 Cd	1.001361	17.618	190.313	ug/L	8.075
|	114 Cd	1.000985	0.993	6277.652	ug/L	35.023
|	109 Ag	0.509096	3.608	1990.539	ug/L	13.333
>	115 In			1202274.597	ug/L	1211499.522
|	208 207.977	1.073052	2.175	15175.743	ug/L	134.335
|	207 Pb	1.077033	1.429	6307.124	ug/L	65.334
|	206 Pb	0.935098	0.955	7288.171	ug/L	88.334
>	169 Tm			813937.610	ug/L	823579.508
|	106 Pd			6.535	ug/L	27.283
|	84 Kr			5284.560	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
>	Li-1	6
|	Be	9
|	Al	27
|	Ca	44
|	V	51
|	Cr	52
|	Mn	55
|	Fe	54
|	Fe	57
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
|	Se	82
>	Ge-1	72
|	Ag	107
|	Cd	111
|	Sb	121
|	Ba	135
>	In-1	115
|	Tl	205
|	Pb	208
>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
|	Cd	108
|	Cd	114
|	Ag	109
>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	84

SOP No. SAC-MT-0001

BJones

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:02:36

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\ICSA .017

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

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

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1332453.096	ug/L	1450250.515
> 6 Li-1			660778.094	ug/L	734821.087
[9 Be	0.063323	23.615	30.333	ug/L	4.000
[27 Al	89756.111967	0.915	674666770.183	ug/L	130527.605
[44 Ca	90599.907310	0.271	32145798.634	ug/L	49646.588
[51 V	0.292904	84.770	-10448.510	ug/L	-15264.386
[52 Cr	2.450215	0.175	51270.040	ug/L	24602.149
[55 Mn	6.425520	1.010	123610.027	ug/L	4671.715
[54 Fe	94259.007813	0.245	85501039.143	ug/L	104203.515
[57 Fe	94824.096990	0.429	35102601.616	ug/L	12317.824
[59 Co	1.844234	1.009	24636.935	ug/L	85.667
[60 Ni	1.916228	8.176	5722.495	ug/L	219.228
[65 Cu	0.176349	42.621	687.525	ug/L	191.958
[68 Zn	1.201847	1.725	2581.464	ug/L	1379.571
[75 As	1.065865	13.715	16589.100	ug/L	14659.935
[82 Se	0.349112	258.541	1531.170	ug/L	1542.422
> [72 Ge-1			1268753.689	ug/L	1358190.823
[107 Ag	0.159372	3.039	1681.556	ug/L	39.000
[111 Cd	1.118573	11.497	2700.427	ug/L	26.863
[121 Sb	0.286621	11.497	2470.816	ug/L	204.670
[135 Ba	2.793148	0.875	5980.476	ug/L	65.000
> [115 In-1			1098624.109	ug/L	1211499.522
[205 Tl	0.207248	3.714	3999.258	ug/L	423.014
[208 Pb	0.447679	0.834	10779.881	ug/L	288.002
> [169 Tm-1			696159.788	ug/L	823579.508
[50 Cr	109.402574	11.825	23886.452	ug/L	-979.266
[53 Cr	11.708334	1.373	137925.347	ug/L	130001.298
[61 Ni	31.069714	16.131	3551.781	ug/L	2226.757
[63 Cu	3.248205	2.426	7236.172	ug/L	154.339
[67 Zn	14.168507	11.720	4962.750	ug/L	3783.149
[66 Zn	6.184755	1.088	3672.298	ug/L	200.342
[76 Se	-144.358351	7.967	-188647.169	ug/L	-193571.141
[77 Se	32.524925	2.398	15510.221	ug/L	9328.119
[78 Se	3.986050	4.086	16992.725	ug/L	15388.814
[79 Br	8489.314775	7.264	8783696.919	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:27

Page 1

Sample ID: ICSA

>	72 Ge			1268753.689	ug/L	1358190.823
[	108 Cd	66.077793	2.595	11000.940	ug/L	8.075
|	114 Cd	4.198576	0.421	23959.259	ug/L	35.023
|	109 Ag	0.121060	5.652	441.710	ug/L	13.333
>	115 In			1098624.109	ug/L	1211499.522
[	208 207.977	0.460934	1.173	5640.833	ug/L	134.335
|	207 Pb	0.452817	0.606	2300.082	ug/L	65.334
|	206 Pb	0.419679	0.906	2838.967	ug/L	88.334
>	169 Tm			696159.788	ug/L	823579.508
|	106 Pd			-897.586	ug/L	27.283
|	84 Kr			5339.230	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	89.924
[Be	9	
| Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	93.415
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	90.683
[Tl	205	
| Pb	208	
> Tm-1	169	84.529
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	93.415
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	90.683
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	84.529
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:06:59

Method File: C:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\ICSAB.018

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

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

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1330819.097	ug/L	1450250.515
> 6 Li-1			662819.548	ug/L	734821.087
[9 Be	98.360879	0.461	41651.547	ug/L	4.000
[27 Al	88219.814606	0.927	667685693.039	ug/L	130527.605
[44 Ca	90346.774259	0.519	32276126.006	ug/L	49646.588
[51 V	96.727778	0.315	1252193.405	ug/L	-15264.386
[52 Cr	98.689957	0.337	1170334.799	ug/L	24602.149
[55 Mn	99.886460	0.296	1870834.764	ug/L	4671.715
[54 Fe	94662.486574	0.643	86456569.589	ug/L	104203.515
[57 Fe	95382.469219	0.379	35551476.420	ug/L	12317.824
[59 Co	101.516160	0.221	1361087.776	ug/L	85.667
[60 Ni	97.322842	0.688	282348.688	ug/L	219.228
[65 Cu	92.550267	0.498	268721.455	ug/L	191.958
[68 Zn	91.948145	0.419	100878.596	ug/L	1379.571
[75 As	101.423388	0.900	291058.606	ug/L	14659.935
[82 Se	109.058191	1.130	29905.787	ug/L	1542.422
> [72 Ge-1			1277440.353	ug/L	1358190.823
[107 Ag	46.877634	0.468	489642.214	ug/L	39.000
[111 Cd	99.573083	0.488	240890.440	ug/L	26.863
[121 Sb	49.981976	0.608	403408.456	ug/L	204.670
[135 Ba	102.459572	0.588	219726.417	ug/L	65.000
> [115 In-1			1110992.546	ug/L	1211499.522
[205 Tl	48.566947	0.439	851373.629	ug/L	423.014
[208 Pb	94.295206	0.307	2213614.608	ug/L	288.002
> [169 Tm-1			694304.259	ug/L	823579.508
[50 Cr	205.167524	2.161	45901.575	ug/L	-979.266
[53 Cr	109.559058	2.595	277593.087	ug/L	130001.298
[61 Ni	126.120532	3.830	8110.121	ug/L	2226.757
[63 Cu	95.851641	0.058	210862.318	ug/L	154.339
[67 Zn	103.300791	2.331	14047.963	ug/L	3783.149
[66 Zn	99.665944	0.435	56735.811	ug/L	200.342
[76 Se	-36.755035	80.277	-184072.790	ug/L	-193571.141
[77 Se	136.495236	0.913	37492.159	ug/L	9328.119
[78 Se	108.671851	0.288	86320.447	ug/L	15388.814
[79 Br	230.494990	26.768	300411.223	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:10:30

Page 1

Sample ID: ICSAB

>	72 Ge			1277440.353	ug/L	1358190.823
[	108 Cd	163.333683	0.334	27489.104	ug/L	8.075
|	114 Cd	101.814707	0.103	586813.527	ug/L	35.023
|	109 Ag	46.880373	0.725	168262.162	ug/L	13.333
>	115 In			1110992.546	ug/L	1211499.522
[	208 207.977	95.055607	0.171	1136926.596	ug/L	134.335
|	207 Pb	93.086351	0.241	460311.157	ug/L	65.334
|	206 Pb	93.820719	0.663	616376.855	ug/L	88.334
>	169 Tm			694304.259	ug/L	823579.508
|	106 Pd			-2989.830	ug/L	27.283
|	84 Kr			5560.164	ug/L	5265.529

Internal Standard Recoveries

	Analyte Mass	Int Std % Recovery
	Sc 45	
>	Li-1 6	90.201
[	Be 9	
|	Al 27	
|	Ca 44	
|	V 51	
|	Cr 52	
|	Mn 55	
|	Fe 54	
|	Fe 57	
|	Co 59	
|	Ni 60	
|	Cu 65	
|	Zn 68	
|	As 75	
|	Se 82	
>	Ge-1 72	94.055
[	Ag 107	
|	Cd 111	
|	Sb 121	
|	Ba 135	
>	In-1 115	91.704
[	Tl 205	
|	Pb 208	
>	Tm-1 169	84.303
[	Cr 50	
|	Cr 53	
|	Ni 61	
|	Cu 63	
|	Zn 67	
|	Zn 66	
|	Se 76	
|	Se 77	
|	Se 78	
|	Br 79	
>	Ge 72	94.055
[	Cd 108	
|	Cd 114	
|	Ag 109	
>	In 115	91.704
[	207.977 208	
|	Pb 207	
|	Pb 206	
>	Tm 169	84.303
|	Pd 106	
|	Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:16:38

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\Rinse.019

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

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

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1609383.379	ug/L	1450250.515
> 6 Li-1			832936.577	ug/L	734821.087
9 Be	0.003407	89.197	6.333	ug/L	4.000
27 Al	-13.949046	1.459	19362.632	ug/L	130527.605
44 Ca	12.208082	16.072	57360.141	ug/L	49646.588
51 V	0.071347	401.770	-15046.985	ug/L	-15264.386
52 Cr	0.399088	2.687	31209.356	ug/L	24602.149
55 Mn	-0.091452	1.999	3016.381	ug/L	4671.715
54 Fe	7.414475	5.563	117717.993	ug/L	104203.515
57 Fe	6.305845	11.756	15656.108	ug/L	12317.824
59 Co	0.001155	49.986	108.001	ug/L	85.667
60 Ni	-0.007637	38.476	206.769	ug/L	219.228
65 Cu	0.009267	34.494	232.980	ug/L	191.958
68 Zn	-0.052382	60.020	1393.759	ug/L	1379.571
75 As	0.269420	13.454	16320.069	ug/L	14659.935
82 Se	-0.036666	56.972	1619.139	ug/L	1542.422
> 72 Ge-1			1435228.302	ug/L	1358190.823
107 Ag	0.000158	137.642	42.333	ug/L	39.000
111 Cd	-0.001683	148.129	23.276	ug/L	26.863
121 Sb	0.055299	5.990	717.374	ug/L	204.670
135 Ba	0.001876	152.445	72.000	ug/L	65.000
> 115 In-1			1257113.192	ug/L	1211499.522
205 Tl	0.024328	10.615	930.735	ug/L	423.014
208 Pb	0.000113	393.159	291.669	ug/L	288.002
> 169 Tm-1			825037.139	ug/L	823579.508
50 Cr	-0.424229	39.640	-1144.042	ug/L	-979.266
53 Cr	10.241848	16.069	153715.014	ug/L	130001.298
61 Ni	-1.387842	147.144	2279.813	ug/L	2226.757
63 Cu	0.000706	1539.571	165.006	ug/L	154.339
67 Zn	0.594136	454.688	4068.659	ug/L	3783.149
66 Zn	0.023523	80.578	226.678	ug/L	200.342
76 Se	52.752642	21.508	-201321.815	ug/L	-193571.141
77 Se	4.817388	14.646	10994.311	ug/L	9328.119
78 Se	0.763438	82.220	16823.697	ug/L	15388.814
79 Br	9.938370	4.061	80949.165	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:18:48

Page 1

Sample ID: Rinse

>	72 Ge			1435228.302	ug/L	1358190.823
|	108 Cd	0.006150	369.507	9.532	ug/L	8.075
|	114 Cd	0.001106	86.170	43.528	ug/L	35.023
|	109 Ag	-0.000121	339.250	13.333	ug/L	13.333
>	115 In			1257113.192	ug/L	1211499.522
|	208 207.977	0.000590	260.925	143.002	ug/L	134.335
|	207 Pb	0.001166	88.884	72.334	ug/L	65.334
|	206 Pb	-0.001548	89.268	76.334	ug/L	88.334
>	169 Tm			825037.139	ug/L	823579.508
|	106 Pd			12.233	ug/L	27.283
|	84 Kr			5632.311	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	113.352
| Be	9	
| Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	105.672
| Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	103.765
| Tl	205	
| Pb	208	
> Tm-1	169	100.177
| Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	105.672
| Cd	108	
| Cd	114	
| Ag	109	
> In	115	103.765
| 207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	100.177
| Pd	106	
| Kr	84	

Report Date/Time: Tuesday, October 26, 2010 15:18:48

Page 2

Sample ID: Rinse

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:23:04

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 1.020

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1596289.033	ug/L	1450250.515
> 6 Li-1			848041.508	ug/L	734821.087
[9 Be	96.358074	0.621	52206.946	ug/L	4.000
[27 Al	5282.992743	0.473	43869287.464	ug/L	130527.605
| 44 Ca	5391.318446	0.339	2155019.706	ug/L	49646.588
| 51 V	105.476753	0.365	1495240.056	ug/L	-15264.386
| 52 Cr	104.901228	0.857	1359319.407	ug/L	24602.149
| 55 Mn	105.119265	0.503	2153616.160	ug/L	4671.715
| 54 Fe	5371.520613	0.730	5467647.364	ug/L	104203.515
| 57 Fe	5354.387697	0.503	2195355.095	ug/L	12317.824
| 59 Co	104.596040	0.615	1534202.102	ug/L	85.667
| 60 Ni	104.555496	1.068	331802.770	ug/L	219.228
| 65 Cu	103.448561	1.140	328575.050	ug/L	191.958
| 68 Zn	102.686122	0.813	123084.023	ug/L	1379.571
| 75 As	102.399162	0.636	321324.652	ug/L	14659.935
| 82 Se	100.695160	0.435	30329.741	ug/L	1542.422
> 72 Ge-1			1397513.894	ug/L	1358190.823
[107 Ag	50.519110	1.019	574345.781	ug/L	39.000
| 111 Cd	100.491129	1.462	264602.646	ug/L	26.863
| 121 Sb	49.782234	0.993	437323.539	ug/L	204.670
| 135 Ba	98.704336	0.692	230395.159	ug/L	65.000
> 115 In-1			1209255.610	ug/L	1211499.522
[205 Tl	50.080594	1.214	1011117.735	ug/L	423.014
| 208 Pb	100.485953	0.927	2716956.843	ug/L	288.002
> 169 Tm-1			799737.992	ug/L	823579.508
[50 Cr	108.770775	1.315	26146.991	ug/L	-979.266
| 53 Cr	112.971750	1.797	308980.675	ug/L	130001.298
| 61 Ni	101.165993	2.323	7569.924	ug/L	2226.757
| 63 Cu	103.454034	0.980	248980.314	ug/L	154.339
| 67 Zn	100.302305	2.915	15036.953	ug/L	3783.149
| 66 Zn	101.903613	0.858	63458.629	ug/L	200.342
| 76 Se	166.072203	8.258	-189269.925	ug/L	-193571.141
| 77 Se	104.388082	1.218	33625.418	ug/L	9328.119
| 78 Se	101.749594	0.738	89422.645	ug/L	15388.814
| 79 Br	58.153979	1.508	133389.965	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:25:14

Page 1

Sample ID: CCV 1

>	72 Ge			1397513.894	ug/L	1358190.823
[	108 Cd	100.381629	1.467	18390.110	ug/L	8.075
|	114 Cd	99.608408	0.771	624850.566	ug/L	35.023
|	109 Ag	50.525894	1.273	197393.177	ug/L	13.333
>	115 In			1209255.610	ug/L	1211499.522
[	208 207.977	101.191742	1.485	1393939.202	ug/L	134.335
|	207 Pb	99.367932	0.838	565950.964	ug/L	65.334
|	206 Pb	100.042521	0.259	757066.678	ug/L	88.334
>	169 Tm			799737.992	ug/L	823579.508
|	106 Pd			-2481.499	ug/L	27.283
|	84 Kr			5348.167	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	115.408
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	102.895
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	99.815
[Tl	205	
| Pb	208	
> Tm-1	169	97.105
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	102.895
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	99.815
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	97.105
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:27:31

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 1.021

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1600193.880	ug/L	1450250.515
> 6 Li-1			837155.231	ug/L	734821.087
[9 Be	0.009543	21.038	9.667	ug/L	4.000
[27 Al	2.323365	16.968	154352.770	ug/L	130527.605
[44 Ca	12.218547	7.150	56147.620	ug/L	49646.588
[51 V	0.156896	90.510	-13533.836	ug/L	-15264.386
[52 Cr	0.305309	5.449	29351.538	ug/L	24602.149
[55 Mn	0.023492	16.026	5315.219	ug/L	4671.715
[54 Fe	6.310684	12.377	114119.102	ug/L	104203.515
[57 Fe	3.988966	14.774	14375.935	ug/L	12317.824
[59 Co	0.010127	31.507	238.005	ug/L	85.667
[60 Ni	0.003198	122.290	236.942	ug/L	219.228
[65 Cu	0.026522	5.150	283.200	ug/L	191.958
[68 Zn	-0.078203	129.320	1334.093	ug/L	1379.571
[75 As	0.293288	16.316	16046.216	ug/L	14659.935
[82 Se	-0.061189	187.677	1577.973	ug/L	1542.422
> 72 Ge-1			1404902.342	ug/L	1358190.823
[107 Ag	0.006281	19.748	111.668	ug/L	39.000
[111 Cd	0.005284	97.493	41.226	ug/L	26.863
[121 Sb	0.019495	4.279	380.011	ug/L	204.670
[135 Ba	0.010006	57.420	89.334	ug/L	65.000
> 115 In-1			1223903.977	ug/L	1211499.522
[205 Tl	0.376705	25.453	8132.392	ug/L	423.014
[208 Pb	0.010918	31.124	583.344	ug/L	288.002
> 169 Tm-1			811704.024	ug/L	823579.508
[50 Cr	-0.182947	140.287	-1058.761	ug/L	-979.266
[53 Cr	5.539361	37.172	143113.684	ug/L	130001.298
[61 Ni	-2.328442	74.706	2181.381	ug/L	2226.757
[63 Cu	0.005109	199.678	172.007	ug/L	154.339
[67 Zn	-0.305742	476.302	3879.312	ug/L	3783.149
[66 Zn	0.027392	65.108	224.344	ug/L	200.342
[76 Se	41.398129	36.070	-197745.593	ug/L	-193571.141
[77 Se	0.967623	82.709	9872.692	ug/L	9328.119
[78 Se	0.345655	48.803	16169.184	ug/L	15388.814
[79 Br	5.738958	15.112	74466.452	ug/L	65678.079

>	72 Ge			1404902.342	ug/L	1358190.823
|	108 Cd	-0.005389	714.748	7.187	ug/L	8.075
|	114 Cd	0.008308	36.046	88.151	ug/L	35.023
|	109 Ag	0.005276	16.569	34.334	ug/L	13.333
>	115 In			1223903.977	ug/L	1211499.522
|	208 207.977	0.013304	36.842	318.342	ug/L	134.335
|	207 Pb	0.009335	27.279	118.334	ug/L	65.334
|	206 Pb	0.007765	26.783	146.668	ug/L	88.334
>	169 Tm			811704.024	ug/L	823579.508
|	106 Pd			9.914	ug/L	27.283
|	84 Kr			5546.129	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	113.926
| Be	9	
| Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	103.439
| Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	101.024
| Tl	205	
| Pb	208	
> Tm-1	169	98.558
| Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	103.439
| Cd	108	
| Cd	114	
| Ag	109	
> In	115	101.024
| 207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	98.558
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:31:57

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 2.022

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1564401.749	ug/L	1450250.515
> 6 Li-1			841464.631	ug/L	734821.087
[9 Be	95.841275	1.526	51516.687	ug/L	4.000
[27 Al	5255.938801	0.935	43529663.129	ug/L	130527.605
[44 Ca	5310.840509	0.670	2118206.366	ug/L	49646.588
[51 V	104.875289	0.830	1482817.057	ug/L	-15264.386
[52 Cr	103.759515	0.711	1341358.163	ug/L	24602.149
[55 Mn	102.844008	0.923	2101674.719	ug/L	4671.715
[54 Fe	5286.537361	0.851	5369291.159	ug/L	104203.515
[57 Fe	5297.612735	0.592	2166529.581	ug/L	12317.824
[59 Co	103.023973	1.044	1507250.384	ug/L	85.667
[60 Ni	102.492422	1.156	324447.682	ug/L	219.228
[65 Cu	102.272030	1.437	323976.352	ug/L	191.958
[68 Zn	101.540498	1.293	121405.583	ug/L	1379.571
[75 As	101.773277	0.943	318641.929	ug/L	14659.935
[82 Se	99.740102	1.071	29979.246	ug/L	1542.422
> [72 Ge-1			1394010.681	ug/L	1358190.823
[107 Ag	50.398380	1.260	565681.601	ug/L	39.000
[111 Cd	100.316533	1.095	260799.748	ug/L	26.863
[121 Sb	49.950658	1.179	433235.466	ug/L	204.670
[135 Ba	98.531954	0.610	227084.222	ug/L	65.000
> [115 In-1			1194002.780	ug/L	1211499.522
[205 Tl	50.122042	2.311	1009931.290	ug/L	423.014
[208 Pb	100.546415	2.017	2713228.760	ug/L	288.002
> [169 Tm-1			798348.826	ug/L	823579.508
[50 Cr	104.509737	2.411	25025.372	ug/L	-979.266
[53 Cr	108.236332	1.071	300850.310	ug/L	130001.298
[61 Ni	97.869843	4.529	7378.968	ug/L	2226.757
[63 Cu	101.630814	1.260	243947.067	ug/L	154.339
[67 Zn	98.006536	0.698	14742.672	ug/L	3783.149
[66 Zn	101.327373	0.916	62938.348	ug/L	200.342
[76 Se	132.364428	16.267	-190806.575	ug/L	-193571.141
[77 Se	101.134631	1.366	32791.034	ug/L	9328.119
[78 Se	100.134921	1.085	88030.709	ug/L	15388.814
[79 Br	47.096192	7.954	120531.646	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:34:07

Page 1

Sample ID: CCV 2

>	72 Ge			1394010.681	ug/L	1358190.823
[	108 Cd	101.629319	1.979	18383.675	ug/L	8.075
|	114 Cd	99.505012	0.823	616311.266	ug/L	35.023
|	109 Ag	50.569853	1.019	195050.373	ug/L	13.333
>	115 In			1194002.780	ug/L	1211499.522
[	208 207.977	101.263605	2.227	1392192.723	ug/L	134.335
|	207 Pb	99.505653	1.582	565649.099	ug/L	65.334
|	206 Pb	100.024077	1.999	755386.939	ug/L	88.334
>	169 Tm			798348.826	ug/L	823579.508
|	106 Pd			-2310.783	ug/L	27.283
|	84 Kr			5414.039	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	114.513
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	102.637
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	98.556
[Tl	205	
| Pb	208	
> Tm-1	169	96.936
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	102.637
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	98.556
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	96.936
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 15:36:24

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 2.023

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1583981.176	ug/L	1450250.515
> 6 Li-1			841246.860	ug/L	734821.087
[9 Be	0.013208	57.468	11.667	ug/L	4.000
[27 Al	2.223290	1.838	152647.460	ug/L	130527.605
[44 Ca	13.831636	18.185	56458.057	ug/L	49646.588
[51 V	0.287750	68.727	-11580.896	ug/L	-15264.386
[52 Cr	0.305309	4.452	29184.772	ug/L	24602.149
[55 Mn	0.025105	15.497	5317.888	ug/L	4671.715
[54 Fe	7.212169	10.921	114369.845	ug/L	104203.515
[57 Fe	3.663392	18.669	14161.939	ug/L	12317.824
[59 Co	0.012065	23.421	265.006	ug/L	85.667
[60 Ni	0.006745	55.679	246.863	ug/L	219.228
[65 Cu	0.025233	20.594	277.496	ug/L	191.958
[68 Zn	-0.071843	59.028	1333.842	ug/L	1379.571
[75 As	0.302349	32.205	15981.960	ug/L	14659.935
[82 Se	0.086538	213.678	1611.063	ug/L	1542.422
> [72 Ge-1			1396928.671	ug/L	1358190.823
[107 Ag	0.008032	14.580	131.668	ug/L	39.000
[111 Cd	0.005963	40.910	42.947	ug/L	26.863
[121 Sb	0.012037	5.403	313.341	ug/L	204.670
[135 Ba	0.012891	17.676	96.001	ug/L	65.000
> [115 In-1			1222408.513	ug/L	1211499.522
[205 Tl	0.414369	25.537	8837.698	ug/L	423.014
[208 Pb	0.012800	29.865	630.346	ug/L	288.002
> [169 Tm-1			806100.035	ug/L	823579.508
[50 Cr	-0.160025	202.596	-1047.078	ug/L	-979.266
[53 Cr	5.420094	33.253	142112.041	ug/L	130001.298
[61 Ni	-2.499126	88.427	2160.028	ug/L	2226.757
[63 Cu	0.022300	37.585	212.343	ug/L	154.339
[67 Zn	-0.138518	1304.746	3875.641	ug/L	3783.149
[66 Zn	-0.015644	219.777	196.342	ug/L	200.342
[76 Se	41.129097	49.780	-196637.652	ug/L	-193571.141
[77 Se	0.646475	26.834	9742.885	ug/L	9328.119
[78 Se	0.583341	17.925	16249.439	ug/L	15388.814
[79 Br	4.794132	21.384	72974.434	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 15:38:34

Page 1

Sample ID: CCB 2

>	72 Ge			1396928.671	ug/L	1358190.823
|	108 Cd	0.006112	545.307	9.285	ug/L	8.075
|	114 Cd	0.009233	21.189	93.862	ug/L	35.023
|	109 Ag	0.006990	54.684	41.000	ug/L	13.333
>	115 In			1222408.513	ug/L	1211499.522
|	208 207.977	0.014599	25.968	334.009	ug/L	134.335
|	207 Pb	0.011980	21.953	132.668	ug/L	65.334
|	206 Pb	0.010141	47.679	163.669	ug/L	88.334
>	169 Tm			806100.035	ug/L	823579.508
|	106 Pd			7.320	ug/L	27.283
|	84 Kr			5455.640	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	114.483
| Be	9	
| Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	102.852
| Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	100.900
| Tl	205	
| Pb	208	
> Tm-1	169	97.878
| Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	102.852
| Cd	108	
| Cd	114	
| Ag	109	
> In	115	100.900
| 207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	97.878
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 16:07:07

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 3.030

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1589334.818	ug/L	1450250.515
> 6 Li-1			865011.384	ug/L	734821.087
[9 Be	96.310269	0.920	53221.971	ug/L	4.000
[27 Al	5375.554855	1.244	44271909.892	ug/L	130527.605
[44 Ca	5403.214844	0.216	2142187.154	ug/L	49646.588
[51 V	106.591049	1.101	1498872.992	ug/L	-15264.386
[52 Cr	105.900740	0.333	1360901.898	ug/L	24602.149
[55 Mn	105.651853	0.807	2147015.991	ug/L	4671.715
[54 Fe	5419.675560	0.837	5471284.291	ug/L	104203.515
[57 Fe	5414.368053	0.670	2201742.484	ug/L	12317.824
[59 Co	104.758146	1.001	1524075.460	ug/L	85.667
[60 Ni	103.937606	0.913	327198.025	ug/L	219.228
[65 Cu	102.977327	0.390	324420.610	ug/L	191.958
[68 Zn	103.091139	0.322	122561.475	ug/L	1379.571
[75 As	102.489390	0.307	319003.056	ug/L	14659.935
[82 Se	102.039849	0.391	30464.426	ug/L	1542.422
> 72 Ge-1			1386167.059	ug/L	1358190.823
[107 Ag	50.346526	0.531	579108.112	ug/L	39.000
[111 Cd	100.481400	0.493	267695.943	ug/L	26.863
[121 Sb	49.860266	0.727	443155.348	ug/L	204.670
[135 Ba	98.899255	0.832	233563.255	ug/L	65.000
> 115 In-1			1223444.693	ug/L	1211499.522
[205 Tl	50.139447	1.219	1046188.537	ug/L	423.014
[208 Pb	100.579442	0.297	2810614.902	ug/L	288.002
> 169 Tm-1			826491.205	ug/L	823579.508
[50 Cr	109.064812	4.413	26016.927	ug/L	-979.266
[53 Cr	111.150851	2.622	303676.540	ug/L	130001.298
[61 Ni	99.681260	1.524	7431.800	ug/L	2226.757
[63 Cu	102.647195	0.150	245021.922	ug/L	154.339
[67 Zn	100.256846	3.113	14909.106	ug/L	3783.149
[66 Zn	102.198440	0.486	63122.961	ug/L	200.342
[76 Se	167.446000	0.416	-187644.023	ug/L	-193571.141
[77 Se	102.701898	1.482	32968.013	ug/L	9328.119
[78 Se	102.134127	0.277	88976.424	ug/L	15388.814
[79 Br	37.438120	6.559	109041.524	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 16:09:17

Page 1

Sample ID: CCV 3

>	72 Ge			1386167.059	ug/L	1358190.823
|	108 Cd	101.047037	0.724	18730.377	ug/L	8.075
|	114 Cd	100.122514	0.574	635470.365	ug/L	35.023
|	109 Ag	50.419660	1.103	199286.789	ug/L	13.333
>	115 In			1223444.693	ug/L	1211499.522
|	208 207.977	100.724998	0.513	1434051.567	ug/L	134.335
|	207 Pb	100.376920	0.436	590844.886	ug/L	65.334
|	206 Pb	100.466880	0.367	785718.448	ug/L	88.334
>	169 Tm			826491.205	ug/L	823579.508
|	106 Pd			-2612.612	ug/L	27.283
|	84 Kr			5200.129	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
>	Li-1	6
|	Be	9
|	Al	27
|	Ca	44
|	V	51
|	Cr	52
|	Mn	55
|	Fe	54
|	Fe	57
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
|	Se	82
>	Ge-1	72
|	Ag	107
|	Cd	111
|	Sb	121
|	Ba	135
>	In-1	115
|	Tl	205
|	Pb	208
>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
|	Cd	108
|	Cd	114
|	Ag	109
>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	84

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 16:11:34

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 3.031

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1616068.532	ug/L	1450250.515
> 6 Li-1			849613.157	ug/L	734821.087
9 Be	0.029579	36.315	20.667	ug/L	4.000
27 Al	2.980860	21.680	161621.475	ug/L	130527.605
44 Ca	5.927387	60.780	54279.919	ug/L	49646.588
51 V	0.127561	289.800	-14084.293	ug/L	-15264.386
52 Cr	0.274900	9.013	29287.574	ug/L	24602.149
55 Mn	0.046464	25.982	5853.028	ug/L	4671.715
54 Fe	7.552608	18.919	116664.821	ug/L	104203.515
57 Fe	3.616966	24.183	14383.955	ug/L	12317.824
59 Co	0.033432	41.927	588.363	ug/L	85.667
60 Ni	0.032579	42.962	334.410	ug/L	219.228
65 Cu	0.066799	13.524	416.398	ug/L	191.958
68 Zn	-0.008889	534.132	1432.678	ug/L	1379.571
75 As	0.120007	29.871	15699.639	ug/L	14659.935
82 Se	-0.013606	1853.929	1609.149	ug/L	1542.422
> 72 Ge-1			1420760.275	ug/L	1358190.823
107 Ag	0.020440	28.082	282.340	ug/L	39.000
111 Cd	0.025882	51.513	98.837	ug/L	26.863
121 Sb	0.038882	15.691	567.692	ug/L	204.670
135 Ba	0.031910	35.727	145.002	ug/L	65.000
> 115 In-1			1257626.065	ug/L	1211499.522
205 Tl	0.593952	35.271	13162.664	ug/L	423.014
208 Pb	0.038424	34.402	1399.396	ug/L	288.002
> 169 Tm-1			848518.130	ug/L	823579.508
50 Cr	-0.005293	1469.317	-1025.841	ug/L	-979.266
53 Cr	2.620157	48.561	140111.053	ug/L	130001.298
61 Ni	-4.736313	34.856	2078.618	ug/L	2226.757
63 Cu	0.056402	21.061	299.353	ug/L	154.339
67 Zn	-1.712456	78.857	3763.784	ug/L	3783.149
66 Zn	0.031797	45.200	229.678	ug/L	200.342
76 Se	41.959279	19.801	-199940.964	ug/L	-193571.141
77 Se	-1.901943	34.294	9312.435	ug/L	9328.119
78 Se	-0.444580	68.686	15770.732	ug/L	15388.814
79 Br	3.550542	44.793	72791.080	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 16:13:44

Page 1

Sample ID: CCB 3

>	72 Ge			1420760.275	ug/L	1358190.823
|	108 Cd	0.053373	22.728	18.557	ug/L	8.075
|	114 Cd	0.031632	33.519	242.987	ug/L	35.023
|	109 Ag	0.019457	32.431	93.002	ug/L	13.333
>	115 In			1257626.065	ug/L	1211499.522
|	208 207.977	0.039852	33.886	721.043	ug/L	134.335
|	207 Pb	0.037278	33.882	292.674	ug/L	65.334
|	206 Pb	0.036687	36.629	385.679	ug/L	88.334
>	169 Tm			848518.130	ug/L	823579.508
|	106 Pd			12.258	ug/L	27.283
|	84 Kr			5218.792	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
>	Li-1	6
|	Be	9
|	Al	27
|	Ca	44
|	V	51
|	Cr	52
|	Mn	55
|	Fe	54
|	Fe	57
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
|	Se	82
>	Ge-1	72
|	Ag	107
|	Cd	111
|	Sb	121
|	Ba	135
>	In-1	115
|	Tl	205
|	Pb	208
>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
|	Cd	108
|	Cd	114
|	Ag	109
>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	84

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 16:16:00

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 4.032

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1601780.656	ug/L	1450250.515
> 6 Li-1			863182.493	ug/L	734821.087
9 Be	95.821093	0.897	52844.859	ug/L	4.000
27 Al	5285.938958	0.702	44336927.155	ug/L	130527.605
44 Ca	5336.387396	0.387	2155275.115	ug/L	49646.588
51 V	104.767911	0.358	1500082.280	ug/L	-15264.386
52 Cr	104.316670	0.075	1365579.321	ug/L	24602.149
55 Mn	103.242881	1.360	2136644.298	ug/L	4671.715
54 Fe	5329.039974	0.683	5480547.455	ug/L	104203.515
57 Fe	5309.959495	1.353	2199120.044	ug/L	12317.824
59 Co	102.599021	1.424	1520118.013	ug/L	85.667
60 Ni	103.031937	0.745	330301.488	ug/L	219.228
65 Cu	101.522315	0.751	325729.844	ug/L	191.958
68 Zn	101.069575	0.812	122397.238	ug/L	1379.571
75 As	101.075995	0.267	320604.300	ug/L	14659.935
82 Se	101.137712	0.345	30764.965	ug/L	1542.422
> 72 Ge-1			1411673.053	ug/L	1358190.823
107 Ag	49.546755	0.738	578884.333	ug/L	39.000
111 Cd	99.036478	1.010	267990.741	ug/L	26.863
121 Sb	49.107331	1.079	443320.802	ug/L	204.670
135 Ba	97.127162	1.382	232977.921	ug/L	65.000
> 115 In-1			1242749.785	ug/L	1211499.522
205 Tl	49.977310	1.149	1053512.964	ug/L	423.014
208 Pb	99.021556	1.403	2795333.967	ug/L	288.002
> 169 Tm-1			834982.304	ug/L	823579.508
50 Cr	107.625947	4.002	26124.108	ug/L	-979.266
53 Cr	108.328646	1.891	304829.156	ug/L	130001.298
61 Ni	98.169863	2.642	7488.654	ug/L	2226.757
63 Cu	101.242860	0.459	246116.215	ug/L	154.339
67 Zn	96.902554	2.258	14806.087	ug/L	3783.149
66 Zn	100.824552	0.236	63422.767	ug/L	200.342
76 Se	147.035312	14.557	-192325.147	ug/L	-193571.141
77 Se	101.002705	0.568	33179.106	ug/L	9328.119
78 Se	99.941809	0.586	89011.669	ug/L	15388.814
79 Br	35.864195	9.039	109251.254	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 16:18:10

Page 1

Sample ID: CCV 4

>	72 Ge			1411673.053	ug/L	1358190.823
[	108 Cd	99.126896	1.461	18662.818	ug/L	8.075
|	114 Cd	98.038639	0.328	632050.357	ug/L	35.023
|	109 Ag	49.585706	0.997	199064.088	ug/L	13.333
>	115 In			1242749.785	ug/L	1211499.522
[	208 207.977	99.141057	1.384	1425943.284	ug/L	134.335
|	207 Pb	98.411142	1.358	585201.009	ug/L	65.334
|	206 Pb	99.263442	1.543	784189.674	ug/L	88.334
>	169 Tm			834982.304	ug/L	823579.508
|	106 Pd			-2571.518	ug/L	27.283
|	84 Kr			5360.045	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.468
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	103.938
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	102.579
[Tl	205	
| Pb	208	
> Tm-1	169	101.385
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	103.938
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	102.579
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	101.385
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 16:20:26

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 4.033

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1626182.500	ug/L	1450250.515
> 6 Li-1			838360.753	ug/L	734821.087
[9 Be	0.030671	15.332	21.000	ug/L	4.000
[27 Al	3.217255	21.103	165646.177	ug/L	130527.605
[44 Ca	13.260040	8.848	57901.922	ug/L	49646.588
[51 V	0.157638	31.779	-13843.873	ug/L	-15264.386
[52 Cr	0.181115	16.191	28424.352	ug/L	24602.149
[55 Mn	0.040008	20.248	5789.301	ug/L	4671.715
[54 Fe	5.468098	10.842	115964.233	ug/L	104203.515
[57 Fe	2.867727	18.506	14247.795	ug/L	12317.824
[59 Co	0.031242	28.570	562.693	ug/L	85.667
[60 Ni	0.035556	27.779	348.331	ug/L	219.228
[65 Cu	0.052677	16.253	375.394	ug/L	191.958
[68 Zn	-0.066966	93.094	1379.319	ug/L	1379.571
[75 As	-0.053857	262.556	15360.070	ug/L	14659.935
[82 Se	-0.020018	617.337	1627.593	ug/L	1542.422
> [72 Ge-1			1438308.854	ug/L	1358190.823
[107 Ag	0.021200	27.309	293.674	ug/L	39.000
[111 Cd	0.028497	44.143	106.892	ug/L	26.863
[121 Sb	0.026102	8.302	454.350	ug/L	204.670
[135 Ba	0.030889	40.596	143.668	ug/L	65.000
> [115 In-1			1267194.619	ug/L	1211499.522
[205 Tl	0.652436	33.473	14278.116	ug/L	423.014
[208 Pb	0.032646	32.482	1222.381	ug/L	288.002
> [169 Tm-1			841193.867	ug/L	823579.508
[50 Cr	-0.030624	374.588	-1044.935	ug/L	-979.266
[53 Cr	3.338166	19.540	142998.258	ug/L	130001.298
[61 Ni	-3.761785	54.504	2156.024	ug/L	2226.757
[63 Cu	0.045853	15.799	277.017	ug/L	154.339
[67 Zn	-0.024132	4442.861	4003.525	ug/L	3783.149
[66 Zn	0.046204	10.104	241.680	ug/L	200.342
[76 Se	42.368003	25.013	-202385.627	ug/L	-193571.141
[77 Se	-1.490298	27.005	9524.987	ug/L	9328.119
[78 Se	-0.329837	36.062	16050.967	ug/L	15388.814
[79 Br	2.984869	66.982	73035.126	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 16:22:36

Page 1

Sample ID: CCB 4

>	72 Ge			1438308.854	ug/L	1358190.823
[	108 Cd	0.044321	0.475	16.952	ug/L	8.075
|	114 Cd	0.031193	34.487	242.018	ug/L	35.023
|	109 Ag	0.021972	26.521	104.002	ug/L	13.333
>	115 In			1267194.619	ug/L	1211499.522
[	208 207.977	0.034525	34.946	637.367	ug/L	134.335
|	207 Pb	0.033379	28.078	266.672	ug/L	65.334
|	206 Pb	0.028673	31.669	318.342	ug/L	88.334
>	169 Tm			841193.867	ug/L	823579.508
|	106 Pd			9.542	ug/L	27.283
|	84 Kr			5523.404	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	114.090
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	105.899
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	104.597
[Tl	205	
| Pb	208	
> Tm-1	169	102.139
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	105.899
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	104.597
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	102.139
| Pd	106	
| Kr	84	

Report Date/Time: Tuesday, October 26, 2010 16:22:36

Page 2

Sample ID: CCB 4

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 17:00:03

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 5.042

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1620849.555	ug/L	1450250.515
> 6 Li-1			861268.940	ug/L	734821.087
[9 Be	97.817983	2.713	53802.827	ug/L	4.000
| 27 Al	5351.971752	1.695	45046463.369	ug/L	130527.605
| 44 Ca	5410.374209	2.155	2192026.330	ug/L	49646.588
| 51 V	106.566809	2.137	1531482.520	ug/L	-15264.386
| 52 Cr	105.459894	2.115	1385072.509	ug/L	24602.149
| 55 Mn	105.987833	2.512	2200971.427	ug/L	4671.715
| 54 Fe	5418.019322	2.558	5589597.779	ug/L	104203.515
| 57 Fe	5394.051706	2.583	2241515.515	ug/L	12317.824
| 59 Co	104.880749	3.048	1559265.937	ug/L	85.667
| 60 Ni	104.337673	1.814	335659.764	ug/L	219.228
| 65 Cu	103.360936	2.236	332770.897	ug/L	191.958
| 68 Zn	102.703396	1.880	124786.596	ug/L	1379.571
| 75 As	102.586231	1.674	326312.500	ug/L	14659.935
| 82 Se	101.491961	2.496	30974.204	ug/L	1542.422
> 72 Ge-1			1416858.785	ug/L	1358190.823
[107 Ag	50.663729	2.381	587529.952	ug/L	39.000
| 111 Cd	100.660174	1.931	270381.004	ug/L	26.863
| 121 Sb	50.259501	2.334	450377.363	ug/L	204.670
| 135 Ba	98.355299	1.657	234201.155	ug/L	65.000
> 115 In-1			1233796.233	ug/L	1211499.522
[205 Tl	50.286366	1.520	1044019.515	ug/L	423.014
| 208 Pb	99.484964	2.285	2765710.781	ug/L	288.002
> 169 Tm-1			822468.763	ug/L	823579.508
[50 Cr	110.986065	3.753	27066.015	ug/L	-979.266
| 53 Cr	111.831120	6.337	311348.742	ug/L	130001.298
| 61 Ni	98.174905	5.470	7513.738	ug/L	2226.757
| 63 Cu	103.041844	2.216	251357.654	ug/L	154.339
| 67 Zn	97.435863	3.671	14916.465	ug/L	3783.149
| 66 Zn	102.637870	1.674	64787.813	ug/L	200.342
| 76 Se	140.710659	5.822	-193413.200	ug/L	-193571.141
| 77 Se	101.523914	3.903	33414.304	ug/L	9328.119
| 78 Se	101.388962	2.400	90384.979	ug/L	15388.814
| 79 Br	35.046429	1.567	108730.508	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 17:02:12

Page 1

Sample ID: CCV 5

>	72 Ge			1416858.785	ug/L	1358190.823
[	108 Cd	101.185336	2.921	18908.947	ug/L	8.075
|	114 Cd	100.482282	2.179	643000.526	ug/L	35.023
|	109 Ag	50.658173	2.525	201863.328	ug/L	13.333
>	115 In			1233796.233	ug/L	1211499.522
[	208 207.977	99.498421	2.606	1409246.152	ug/L	134.335
|	207 Pb	98.958337	1.914	579531.613	ug/L	65.334
|	206 Pb	99.856849	2.001	776933.015	ug/L	88.334
>	169 Tm			822468.763	ug/L	823579.508
|	106 Pd			-2539.233	ug/L	27.283
|	84 Kr			5435.408	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.208
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	104.320
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	101.840
[Tl	205	
| Pb	208	
> Tm-1	169	99.865
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	104.320
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	101.840
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	99.865
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 17:04:29

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 5.043

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1651667.491	ug/L	1450250.515
> 6 Li-1			876762.595	ug/L	734821.087
[9 Be	0.010544	40.268	10.667	ug/L	4.000
[27 Al	2.633699	18.408	160012.842	ug/L	130527.605
[44 Ca	15.354492	1.958	58505.377	ug/L	49646.588
[51 V	0.094055	25.198	-14718.597	ug/L	-15264.386
[52 Cr	0.277387	20.624	29563.539	ug/L	24602.149
[55 Mn	0.030671	21.178	5570.104	ug/L	4671.715
[54 Fe	6.703531	43.950	116763.313	ug/L	104203.515
[57 Fe	3.844544	25.798	14597.715	ug/L	12317.824
[59 Co	0.015121	20.156	317.675	ug/L	85.667
[60 Ni	0.012406	17.426	271.550	ug/L	219.228
[65 Cu	0.027218	42.402	291.073	ug/L	191.958
[68 Zn	-0.055463	96.128	1387.747	ug/L	1379.571
[75 As	0.092344	60.166	15744.916	ug/L	14659.935
[82 Se	-0.161784	59.952	1579.547	ug/L	1542.422
> 72 Ge-1			1432513.515	ug/L	1358190.823
[107 Ag	0.011365	3.555	175.336	ug/L	39.000
[111 Cd	0.007581	34.864	48.792	ug/L	26.863
[121 Sb	0.013620	11.926	337.676	ug/L	204.670
[135 Ba	0.014208	77.323	102.334	ug/L	65.000
> 115 In-1			1260980.988	ug/L	1211499.522
[205 Tl	0.337617	21.039	7548.279	ug/L	423.014
[208 Pb	0.015612	17.682	732.350	ug/L	288.002
> 169 Tm-1			833595.396	ug/L	823579.508
[50 Cr	-0.339679	47.627	-1119.768	ug/L	-979.266
[53 Cr	4.971721	48.690	145015.739	ug/L	130001.298
[61 Ni	-3.719971	42.292	2149.684	ug/L	2226.757
[63 Cu	0.026317	21.734	227.678	ug/L	154.339
[67 Zn	0.559001	423.935	4053.622	ug/L	3783.149
[66 Zn	0.008922	529.032	217.010	ug/L	200.342
[76 Se	36.340693	79.386	-201943.798	ug/L	-193571.141
[77 Se	-1.765448	26.534	9421.880	ug/L	9328.119
[78 Se	-0.395443	45.147	15937.526	ug/L	15388.814
[79 Br	1.251511	99.444	70722.086	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 17:06:39

Page 1

Sample ID: CCB 5

>	72 Ge			1432513.515	ug/L	1358190.823
[	108 Cd	0.037158	19.761	15.507	ug/L	8.075
|	114 Cd	0.014459	30.488	131.171	ug/L	35.023
|	109 Ag	0.012712	12.235	65.668	ug/L	13.333
>	115 In			1260980.988	ug/L	1211499.522
[	208 207.977	0.016702	20.146	376.345	ug/L	134.335
|	207 Pb	0.015608	21.001	158.669	ug/L	65.334
|	206 Pb	0.013630	34.492	197.336	ug/L	88.334
>	169 Tm			833595.396	ug/L	823579.508
|	106 Pd			10.035	ug/L	27.283
|	84 Kr			5327.193	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	119.316
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	105.472
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	104.084
[Tl	205	
| Pb	208	
> Tm-1	169	101.216
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	105.472
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	104.084
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	101.216
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 6

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 17:08:55

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 6.044

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1633378.181	ug/L	1450250.515
> 6 Li-1			866246.681	ug/L	734821.087
[9 Be	95.986441	0.352	53123.168	ug/L	4.000
[27 Al	5309.220354	1.723	44898256.317	ug/L	130527.605
[44 Ca	5365.948172	0.803	2184757.541	ug/L	49646.588
[51 V	104.778504	0.823	1512614.667	ug/L	-15264.386
[52 Cr	104.813752	0.419	1383273.756	ug/L	24602.149
[55 Mn	104.143355	0.824	2173084.771	ug/L	4671.715
[54 Fe	5377.252174	0.647	5574809.700	ug/L	104203.515
[57 Fe	5316.083757	0.343	2219854.537	ug/L	12317.824
[59 Co	103.476119	0.686	1545782.179	ug/L	85.667
[60 Ni	103.025302	0.787	333004.527	ug/L	219.228
[65 Cu	102.738221	0.605	332339.247	ug/L	191.958
[68 Zn	101.867671	0.099	124366.991	ug/L	1379.571
[75 As	101.095980	0.288	323305.342	ug/L	14659.935
[82 Se	100.077366	1.075	30710.902	ug/L	1542.422
> [72 Ge-1			1423304.372	ug/L	1358190.823
[107 Ag	49.656661	0.387	581268.964	ug/L	39.000
[111 Cd	98.967132	0.452	268324.660	ug/L	26.863
[121 Sb	49.579536	0.464	448460.865	ug/L	204.670
[135 Ba	97.044565	0.754	233238.228	ug/L	65.000
> [115 In-1			1245088.398	ug/L	1211499.522
[205 Tl	49.301751	0.574	1036449.010	ug/L	423.014
[208 Pb	97.865327	0.753	2755148.204	ug/L	288.002
> [169 Tm-1			832647.751	ug/L	823579.508
[50 Cr	107.673235	4.538	26354.154	ug/L	-979.266
[53 Cr	110.205399	2.029	310301.200	ug/L	130001.298
[61 Ni	95.212632	0.952	7393.005	ug/L	2226.757
[63 Cu	101.782806	0.580	249469.113	ug/L	154.339
[67 Zn	97.042936	2.321	14943.309	ug/L	3783.149
[66 Zn	102.196549	0.175	64813.182	ug/L	200.342
[76 Se	155.867561	9.135	-193374.501	ug/L	-193571.141
[77 Se	100.013066	2.180	33220.934	ug/L	9328.119
[78 Se	98.826841	1.010	88926.034	ug/L	15388.814
[79 Br	33.383963	7.043	107301.773	ug/L	65678.079

>	72 Ge			1423304.372	ug/L	1358190.823
[	108 Cd	98.795289	0.569	18637.471	ug/L	8.075
|	114 Cd	98.453243	0.212	635929.663	ug/L	35.023
|	109 Ag	49.675971	0.928	199818.453	ug/L	13.333
>	115 In			1245088.398	ug/L	1211499.522
[	208 207.977	98.023607	1.133	1405994.659	ug/L	134.335
|	207 Pb	97.565695	0.471	578585.246	ug/L	65.334
|	206 Pb	97.802695	0.301	770568.299	ug/L	88.334
>	169 Tm			832647.751	ug/L	823579.508
|	106 Pd			-2389.937	ug/L	27.283
|	84 Kr			5310.687	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.885
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	104.794
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	102.773
[Tl	205	
| Pb	208	
> Tm-1	169	101.101
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	104.794
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	102.773
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	101.101
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 6

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 17:13:21

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 6.045

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1646341.445	ug/L	1450250.515
> 6 Li-1			859778.448	ug/L	734821.087
[9 Be	0.024112	63.624	18.000	ug/L	4.000
[27 Al	3.462382	20.825	166949.512	ug/L	130527.605
[44 Ca	10.196399	9.845	56403.876	ug/L	49646.588
[51 V	0.540160	66.894	-8153.386	ug/L	-15264.386
[52 Cr	0.180765	7.018	28285.727	ug/L	24602.149
[55 Mn	0.034667	21.392	5650.175	ug/L	4671.715
[54 Fe	7.634254	23.835	117639.537	ug/L	104203.515
[57 Fe	3.384909	38.547	14396.768	ug/L	12317.824
[59 Co	0.029132	38.449	528.357	ug/L	85.667
[60 Ni	0.030579	49.293	330.525	ug/L	219.228
[65 Cu	0.046578	22.031	353.855	ug/L	191.958
[68 Zn	-0.044984	86.994	1399.547	ug/L	1379.571
[75 As	0.060105	228.380	15636.757	ug/L	14659.935
[82 Se	-0.058822	178.530	1608.535	ug/L	1542.422
> [72 Ge-1			1431538.143	ug/L	1358190.823
[107 Ag	0.022455	32.913	306.674	ug/L	39.000
[111 Cd	0.026727	54.662	101.329	ug/L	26.863
[121 Sb	0.017480	36.293	373.011	ug/L	204.670
[135 Ba	0.022757	32.540	123.001	ug/L	65.000
> [115 In-1			1260687.716	ug/L	1211499.522
[205 Tl	0.604101	33.837	13294.236	ug/L	423.014
[208 Pb	0.032492	34.798	1221.382	ug/L	288.002
> [169 Tm-1			842393.111	ug/L	823579.508
[50 Cr	-0.157427	79.106	-1072.480	ug/L	-979.266
[53 Cr	1.280992	98.795	139057.479	ug/L	130001.298
[61 Ni	-5.925464	14.461	2030.240	ug/L	2226.757
[63 Cu	0.042057	29.001	266.349	ug/L	154.339
[67 Zn	-1.365397	58.536	3832.230	ug/L	3783.149
[66 Zn	0.042221	10.203	238.012	ug/L	200.342
[76 Se	43.869816	28.041	-201343.540	ug/L	-193571.141
[77 Se	-2.175218	25.671	9318.774	ug/L	9328.119
[78 Se	-0.241110	66.193	16041.059	ug/L	15388.814
[79 Br	2.298843	92.792	71894.425	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 17:15:31

Page 1

Sample ID: CCB 6

>	72 Ge			1431538.143	ug/L	1358190.823
|	108 Cd	0.007937	174.778	9.915	ug/L	8.075
|	114 Cd	0.027271	37.076	214.788	ug/L	35.023
|	109 Ag	0.021232	32.097	100.336	ug/L	13.333
>	115 In			1260687.716	ug/L	1211499.522
|	208 207.977	0.035395	30.685	651.701	ug/L	134.335
|	207 Pb	0.030042	35.791	247.338	ug/L	65.334
|	206 Pb	0.029051	43.245	322.342	ug/L	88.334
>	169 Tm			842393.111	ug/L	823579.508
|	106 Pd			10.217	ug/L	27.283
|	84 Kr			5457.219	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.005
| Be	9	
| Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	105.400
| Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	104.060
| Tl	205	
| Pb	208	
> Tm-1	169	102.284
| Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	105.400
| Cd	108	
| Cd	114	
| Ag	109	
> In	115	104.060
| 207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	102.284
| Pd	106	
| Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 7

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:01:10

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 7.055

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1675689.889	ug/L	1450250.515
> 6 Li-1			864141.528	ug/L	734821.087
[9 Be	95.517621	0.931	52738.022	ug/L	4.000
[27 Al	5241.042209	0.677	45445451.292	ug/L	130527.605
[44 Ca	5393.683395	0.482	2251308.717	ug/L	49646.588
[51 V	106.299007	1.126	1573749.281	ug/L	-15264.386
[52 Cr	104.223577	0.984	1410513.325	ug/L	24602.149
[55 Mn	104.986861	0.986	2246169.381	ug/L	4671.715
[54 Fe	5405.230564	0.552	5745081.260	ug/L	104203.515
[57 Fe	5393.297860	0.830	2308931.861	ug/L	12317.824
[59 Co	105.409072	0.641	1614512.221	ug/L	85.667
[60 Ni	105.189582	0.479	348570.472	ug/L	219.228
[65 Cu	103.918431	1.138	344609.436	ug/L	191.958
[68 Zn	101.542090	1.094	127097.784	ug/L	1379.571
[75 As	101.932764	0.384	334077.832	ug/L	14659.935
[82 Se	100.607109	0.967	31641.686	ug/L	1542.422
> 72 Ge-1			1459271.237	ug/L	1358190.823
[107 Ag	50.228749	1.129	597276.948	ug/L	39.000
[111 Cd	99.784699	0.546	274819.471	ug/L	26.863
[121 Sb	49.264243	0.876	452635.945	ug/L	204.670
[135 Ba	96.775279	1.012	236265.487	ug/L	65.000
> 115 In-1			1264766.426	ug/L	1211499.522
[205 Tl	49.106365	1.501	1030705.781	ug/L	423.014
[208 Pb	97.702309	0.411	2746421.247	ug/L	288.002
> 169 Tm-1			831379.277	ug/L	823579.508
[50 Cr	105.762472	0.681	26523.369	ug/L	-979.266
[53 Cr	116.920362	3.669	329058.313	ug/L	130001.298
[61 Ni	101.784340	1.159	7938.511	ug/L	2226.757
[63 Cu	103.666026	0.233	260506.353	ug/L	154.339
[67 Zn	101.035018	2.191	15785.999	ug/L	3783.149
[66 Zn	101.748901	0.781	66156.432	ug/L	200.342
[76 Se	148.044585	3.861	-198746.052	ug/L	-193571.141
[77 Se	104.679744	0.502	35181.958	ug/L	9328.119
[78 Se	100.666283	0.536	92560.089	ug/L	15388.814
[79 Br	41.282359	7.209	119317.724	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 18:03:19

Page 1

Sample ID: CCV 7

>	72 Ge			1459271.237	ug/L	1358190.823
[	108 Cd	99.394134	1.842	19046.731	ug/L	8.075
|	114 Cd	99.214725	0.431	650976.325	ug/L	35.023
|	109 Ag	50.444733	1.318	206114.522	ug/L	13.333
>	115 In			1264766.426	ug/L	1211499.522
[	208 207.977	97.823981	0.404	1401025.396	ug/L	134.335
|	207 Pb	97.343021	0.861	576395.790	ug/L	65.334
|	206 Pb	97.751224	0.200	769000.061	ug/L	88.334
>	169 Tm			831379.277	ug/L	823579.508
|	106 Pd			-2779.138	ug/L	27.283
|	84 Kr			5733.010	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.599
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	107.442
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	104.397
[Tl	205	
| Pb	208	
> Tm-1	169	100.947
[Cr	50	
| Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	107.442
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	104.397
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	100.947
[Pd	106	
| Kr	84	

Report Date/Time: Tuesday, October 26, 2010 18:03:19

Page 2

Sample ID: CCV 7

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 7

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:05:36

Method File: c:\elandata\Method\0288259.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 7.056

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1688632.456	ug/L	1450250.515
> 6 Li-1			860643.305	ug/L	734821.087
9 Be	0.006055	151.434	8.000	ug/L	4.000
27 Al	-4.538342	4.657	101649.298	ug/L	130527.605
44 Ca	6.033615	31.958	56149.999	ug/L	49646.588
51 V	0.069405	980.196	-15477.992	ug/L	-15264.386
52 Cr	0.280871	10.593	30352.895	ug/L	24602.149
55 Mn	-0.023054	25.362	4555.965	ug/L	4671.715
54 Fe	9.520596	17.716	122642.580	ug/L	104203.515
57 Fe	5.097696	24.575	15502.089	ug/L	12317.824
59 Co	0.012715	19.311	288.673	ug/L	85.667
60 Ni	0.003765	153.462	249.619	ug/L	219.228
65 Cu	0.023272	18.347	285.184	ug/L	191.958
68 Zn	-0.104669	49.228	1361.230	ug/L	1379.571
75 As	0.309221	45.120	16822.325	ug/L	14659.935
82 Se	-0.101947	201.576	1637.213	ug/L	1542.422
> 72 Ge-1			1468431.612	ug/L	1358190.823
107 Ag	0.010337	22.784	165.002	ug/L	39.000
111 Cd	0.005010	32.966	42.174	ug/L	26.863
121 Sb	0.031544	14.888	507.354	ug/L	204.670
135 Ba	0.013114	31.535	100.667	ug/L	65.000
> 115 In-1			1274213.522	ug/L	1211499.522
205 Tl	0.357666	23.578	7981.828	ug/L	423.014
208 Pb	0.013252	24.262	667.681	ug/L	288.002
> 169 Tm-1			837287.606	ug/L	823579.508
50 Cr	-0.391974	50.934	-1161.542	ug/L	-979.266
53 Cr	7.720900	44.537	153146.804	ug/L	130001.298
61 Ni	-2.930124	73.471	2246.779	ug/L	2226.757
63 Cu	0.014690	26.351	204.009	ug/L	154.339
67 Zn	-0.982176	276.908	3976.492	ug/L	3783.149
66 Zn	-0.037137	55.197	192.341	ug/L	200.342
76 Se	50.556883	29.594	-206109.713	ug/L	-193571.141
77 Se	1.543764	35.652	10458.346	ug/L	9328.119
78 Se	0.367372	45.238	16916.701	ug/L	15388.814
79 Br	3.065913	31.567	74658.053	ug/L	65678.079

Report Date/Time: Tuesday, October 26, 2010 18:07:46

Page 1

Sample ID: CCB 7

>	72 Ge			1468431.612	ug/L	1358190.823
[	108 Cd	0.046141	99.435	17.409	ug/L	8.075
|	114 Cd	0.010858	43.331	108.757	ug/L	35.023
|	109 Ag	0.008903	12.686	50.667	ug/L	13.333
>	115 In			1274213.522	ug/L	1211499.522
[	208 207.977	0.014880	22.648	351.010	ug/L	134.335
|	207 Pb	0.012401	22.753	140.335	ug/L	65.334
|	206 Pb	0.010929	33.764	176.336	ug/L	88.334
>	169 Tm			837287.606	ug/L	823579.508
|	106 Pd			6.271	ug/L	27.283
|	84 Kr			5460.628	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	117.123
[Be	9	
[Al	27	
| Ca	44	
| V	51	
| Cr	52	
| Mn	55	
| Fe	54	
| Fe	57	
| Co	59	
| Ni	60	
| Cu	65	
| Zn	68	
| As	75	
| Se	82	
> Ge-1	72	108.117
[Ag	107	
| Cd	111	
| Sb	121	
| Ba	135	
> In-1	115	105.177
[Tl	205	
| Pb	208	
> Tm-1	169	101.664
[Cr	50	
[Cr	53	
| Ni	61	
| Cu	63	
| Zn	67	
| Zn	66	
| Se	76	
| Se	77	
| Se	78	
| Br	79	
> Ge	72	108.117
[Cd	108	
| Cd	114	
| Ag	109	
> In	115	105.177
[207.977	208	
| Pb	207	
| Pb	206	
> Tm	169	101.664
| Pd	106	
| Kr	84	

Report Date/Time: Tuesday, October 26, 2010 18:07:46

Page 2

Sample ID: CCB 7

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:10:02

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 8.057

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1611970.513	ug/L	1450250.515
44 Ca	5141.403063	1.793	2135422.280	ug/L	49646.588
52 Cr	102.527675	2.090	1379329.233	ug/L	24602.149
55 Mn	102.295657	1.393	2175498.547	ug/L	4671.715
54 Fe	5276.671074	1.652	5577103.002	ug/L	104203.515
57 Fe	5290.944192	1.847	2251442.342	ug/L	12317.824
60 Ni	102.331395	2.199	337051.017	ug/L	219.228
65 Cu	101.449173	2.121	334417.932	ug/L	191.958
68 Zn	100.525257	2.047	125077.145	ug/L	1379.571
75 As	101.263227	1.467	329988.244	ug/L	14659.935
> 72 Ge-1			1450696.086	ug/L	1358190.823
111 Cd	98.746100	1.748	270692.053	ug/L	26.863
> 115 In-1			1259128.122	ug/L	1211499.522
208 Pb	97.940050	2.213	2757612.166	ug/L	288.002
> 169 Tm-1			832954.415	ug/L	823579.508
50 Cr	123.578697	3.030	30972.287	ug/L	-979.266
53 Cr	-16.913556	5.747	111617.405	ug/L	130001.298
61 Ni	97.219600	4.234	7644.179	ug/L	2226.757
63 Cu	101.442070	2.491	253363.316	ug/L	154.339
67 Zn	95.062857	2.822	15000.016	ug/L	3783.149
66 Zn	99.424693	1.763	64260.162	ug/L	200.342
> 72 Ge			1450696.086	ug/L	1358190.823
108 Cd	99.410974	1.597	18961.949	ug/L	8.075
114 Cd	98.165012	1.636	641113.416	ug/L	35.023
> 115 In			1259128.122	ug/L	1211499.522
208 207.977	98.344100	2.186	1410790.100	ug/L	134.335
207 Pb	97.122236	2.081	576037.315	ug/L	65.334
206 Pb	97.819998	2.445	770784.750	ug/L	88.334
> 169 Tm			832954.415	ug/L	823579.508
106 Pd			-2660.278	ug/L	27.283
84 Kr			5485.624	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery
Sc	45		
Ca	44		

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	106.811
|	Cd	111	
>	In-1	115	103.931
|	Pb	208	
>	Tm-1	169	101.138
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	106.811
|	Cd	108	
|	Cd	114	
>	In	115	103.931
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.138
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 8

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:13:52

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 8.058

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1648949.276	ug/L	1450250.515
44 Ca	-2.170456	147.746	52501.750	ug/L	49646.588
52 Cr	0.219630	30.366	29369.964	ug/L	24602.149
55 Mn	-0.028136	31.748	4421.537	ug/L	4671.715
54 Fe	5.537894	66.667	117815.504	ug/L	104203.515
57 Fe	4.289425	25.118	15072.679	ug/L	12317.824
60 Ni	0.006117	59.940	256.250	ug/L	219.228
65 Cu	0.023309	48.473	283.588	ug/L	191.958
68 Zn	-0.129073	28.375	1323.708	ug/L	1379.571
75 As	0.077833	81.376	16014.103	ug/L	14659.935
> 72 Ge-1			1460839.962	ug/L	1358190.823
111 Cd	0.007169	48.899	48.197	ug/L	26.863
> 115 In-1			1276775.146	ug/L	1211499.522
208 Pb	0.014173	18.992	702.349	ug/L	288.002
> 169 Tm-1			847529.790	ug/L	823579.508
50 Cr	2.408670	7.691	-424.450	ug/L	-979.266
53 Cr	-53.660546	2.232	52821.814	ug/L	130001.298
61 Ni	-2.441671	119.049	2260.126	ug/L	2226.757
63 Cu	0.019196	44.406	214.344	ug/L	154.339
67 Zn	-0.294107	794.635	4033.920	ug/L	3783.149
66 Zn	0.001515	903.749	216.344	ug/L	200.342
> 72 Ge			1460839.962	ug/L	1358190.823
108 Cd	0.021206	171.599	12.680	ug/L	8.075
114 Cd	0.013621	17.074	127.092	ug/L	35.023
> 115 In			1276775.146	ug/L	1211499.522
208 207.977	0.015801	19.565	368.677	ug/L	134.335
207 Pb	0.013842	26.654	150.668	ug/L	65.334
206 Pb	0.011459	26.399	183.003	ug/L	88.334
> 169 Tm			847529.790	ug/L	823579.508
106 Pd			9.702	ug/L	27.283
84 Kr			5313.818	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	107.558
|	Cd	111	
>	In-1	115	105.388
|	Pb	208	
>	Tm-1	169	102.908
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	107.558
|	Cd	108	
|	Cd	114	
>	In	115	105.388
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	102.908
|	Pd	106	
|	Kr	84	

BJones

Sample ID: CCV 9

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:17:42

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 9.059

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1631777.607	ug/L	1450250.515
44 Ca	5200.433208	0.757	2155744.514	ug/L	49646.588
52 Cr	101.931209	1.050	1369277.426	ug/L	24602.149
55 Mn	102.300023	1.329	2171719.479	ug/L	4671.715
54 Fe	5283.099685	0.999	5574095.034	ug/L	104203.515
57 Fe	5254.220714	0.625	2232239.327	ug/L	12317.824
60 Ni	101.687419	0.312	334382.020	ug/L	219.228
65 Cu	100.969205	0.563	332283.460	ug/L	191.958
68 Zn	99.692821	0.728	123853.388	ug/L	1379.571
75 As	100.874374	0.739	328227.018	ug/L	14659.935
> 72 Ge-1			1447981.299	ug/L	1358190.823
111 Cd	98.559746	0.683	269617.893	ug/L	26.863
> 115 In-1			1256288.669	ug/L	1211499.522
208 Pb	98.031042	0.269	2756107.873	ug/L	288.002
> 169 Tm-1			831531.540	ug/L	823579.508
50 Cr	122.613645	1.718	30677.016	ug/L	-979.266
53 Cr	-17.081748	10.260	111153.208	ug/L	130001.298
61 Ni	98.117143	0.938	7678.282	ug/L	2226.757
63 Cu	101.087561	0.340	252059.156	ug/L	154.339
67 Zn	93.358887	2.238	14778.234	ug/L	3783.149
66 Zn	99.346815	0.372	64104.520	ug/L	200.342
> 72 Ge			1447981.299	ug/L	1358190.823
108 Cd	98.489612	0.474	18747.159	ug/L	8.075
114 Cd	98.129900	0.288	639549.830	ug/L	35.023
> 115 In			1256288.669	ug/L	1211499.522
208 207.977	98.333054	0.206	1408561.089	ug/L	134.335
207 Pb	97.264167	0.465	576015.950	ug/L	65.334
206 Pb	98.058419	0.462	771530.834	ug/L	88.334
> 169 Tm			831531.540	ug/L	823579.508
106 Pd			-2643.779	ug/L	27.283
84 Kr			5230.594	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	106.611
|	Cd	111	
>	In-1	115	103.697
|	Pb	208	
>	Tm-1	169	100.966
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	106.611
|	Cd	108	
|	Cd	114	
>	In	115	103.697
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.966
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 9

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 18:21:32

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 9.060

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1626451.562	ug/L	1450250.515
44 Ca	1.281435	95.260	53241.131	ug/L	49646.588
52 Cr	0.257966	12.125	29514.295	ug/L	24602.149
55 Mn	-0.029091	18.148	4347.485	ug/L	4671.715
54 Fe	7.795777	16.028	118697.512	ug/L	104203.515
57 Fe	3.877726	5.075	14713.134	ug/L	12317.824
60 Ni	0.001374	160.237	237.332	ug/L	219.228
65 Cu	0.022783	18.568	278.496	ug/L	191.958
68 Zn	-0.099077	58.766	1344.160	ug/L	1379.571
75 As	0.197050	95.713	16177.050	ug/L	14659.935
> 72 Ge-1			1442437.932	ug/L	1358190.823
111 Cd	0.007868	56.543	49.611	ug/L	26.863
> 115 In-1			1261489.469	ug/L	1211499.522
208 Pb	0.013926	25.865	692.681	ug/L	288.002
> 169 Tm-1			843778.681	ug/L	823579.508
50 Cr	2.396381	4.731	-422.506	ug/L	-979.266
53 Cr	-52.851294	1.863	53470.088	ug/L	130001.298
61 Ni	-2.832221	14.447	2212.410	ug/L	2226.757
63 Cu	0.027536	41.988	232.345	ug/L	154.339
67 Zn	0.342966	438.012	4057.290	ug/L	3783.149
66 Zn	0.012796	203.507	221.011	ug/L	200.342
> 72 Ge			1442437.932	ug/L	1358190.823
108 Cd	0.016505	165.911	11.557	ug/L	8.075
114 Cd	0.012359	15.957	117.374	ug/L	35.023
> 115 In			1261489.469	ug/L	1211499.522
208 207.977	0.014989	25.012	355.677	ug/L	134.335
207 Pb	0.013206	19.372	146.335	ug/L	65.334
206 Pb	0.012532	33.014	190.670	ug/L	88.334
> 169 Tm			843778.681	ug/L	823579.508
106 Pd			5.677	ug/L	27.283
84 Kr			5332.916	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	106.203
|	Cd	111	
>	In-1	115	104.126
|	Pb	208	
>	Tm-1	169	102.453
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	106.203
|	Cd	108	
|	Cd	114	
>	In	115	104.126
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	102.453
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 10

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:03:10

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 10.071

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1630984.220	ug/L	1450250.515
44 Ca	5245.548900	0.403	2171572.939	ug/L	49646.588
52 Cr	103.135689	0.298	1383594.845	ug/L	24602.149
55 Mn	102.813902	0.848	2180084.722	ug/L	4671.715
54 Fe	5310.003136	0.588	5595495.546	ug/L	104203.515
57 Fe	5300.764512	0.673	2249303.635	ug/L	12317.824
60 Ni	101.708200	0.711	334077.610	ug/L	219.228
65 Cu	101.148675	1.036	332510.533	ug/L	191.958
68 Zn	99.997086	0.379	124085.083	ug/L	1379.571
75 As	100.844068	0.974	327764.794	ug/L	14659.935
> 72 Ge-1			1446363.806	ug/L	1358190.823
111 Cd	98.752111	0.656	270829.244	ug/L	26.863
> 115 In-1			1259429.764	ug/L	1211499.522
208 Pb	98.329434	0.798	2779979.621	ug/L	288.002
> 169 Tm-1			836191.351	ug/L	823579.508
50 Cr	121.797253	1.183	30430.770	ug/L	-979.266
53 Cr	-16.902495	5.812	111319.364	ug/L	130001.298
61 Ni	96.125528	2.003	7562.901	ug/L	2226.757
63 Cu	100.016647	0.924	249129.805	ug/L	154.339
67 Zn	94.780445	1.607	14926.541	ug/L	3783.149
66 Zn	99.504500	0.719	64129.881	ug/L	200.342
> 72 Ge			1446363.806	ug/L	1358190.823
108 Cd	99.228710	0.499	18934.505	ug/L	8.075
114 Cd	98.380184	0.777	642783.141	ug/L	35.023
> 115 In			1259429.764	ug/L	1211499.522
208 207.977	98.843459	0.917	1423785.847	ug/L	134.335
207 Pb	97.214052	1.154	578940.630	ug/L	65.334
206 Pb	98.233140	0.398	777253.144	ug/L	88.334
> 169 Tm			836191.351	ug/L	823579.508
106 Pd			-2463.677	ug/L	27.283
84 Kr			5167.557	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	106.492
|	Cd	111	
>	In-1	115	103.956
|	Pb	208	
>	Tm-1	169	101.531
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	106.492
|	Cd	108	
|	Cd	114	
>	In	115	103.956
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.531
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 10

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:07:00

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 10.072

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1631060.109	ug/L	1450250.515
44 Ca	2.339616	25.021	53566.520	ug/L	49646.588
52 Cr	0.305440	4.320	30082.621	ug/L	24602.149
55 Mn	-0.026572	13.793	4393.183	ug/L	4671.715
54 Fe	6.143169	15.052	116768.579	ug/L	104203.515
57 Fe	3.142882	15.942	14378.994	ug/L	12317.824
60 Ni	0.001320	360.668	236.617	ug/L	219.228
65 Cu	0.020666	7.205	271.111	ug/L	191.958
68 Zn	-0.115730	54.803	1321.814	ug/L	1379.571
75 As	0.005415	2112.610	15554.614	ug/L	14659.935
> 72 Ge-1			1439755.657	ug/L	1358190.823
> 111 Cd	0.008118	47.255	50.529	ug/L	26.863
> 115 In-1			1266745.108	ug/L	1211499.522
> 208 Pb	0.015636	26.221	739.017	ug/L	288.002
> 169 Tm-1			840414.141	ug/L	823579.508
> 50 Cr	2.461849	6.022	-405.110	ug/L	-979.266
> 53 Cr	-53.486415	1.640	52366.050	ug/L	130001.298
> 61 Ni	-4.630597	30.522	2110.980	ug/L	2226.757
> 63 Cu	0.018835	17.886	210.343	ug/L	154.339
> 67 Zn	-0.759115	265.182	3925.399	ug/L	3783.149
> 66 Zn	-0.018250	70.453	200.676	ug/L	200.342
> 72 Ge			1439755.657	ug/L	1358190.823
> 108 Cd	0.002092	586.263	8.854	ug/L	8.075
> 114 Cd	0.011630	29.018	113.142	ug/L	35.023
> 115 In			1266745.108	ug/L	1211499.522
> 208 207.977	0.016938	21.916	382.678	ug/L	134.335
> 207 Pb	0.015890	35.508	162.002	ug/L	65.334
> 206 Pb	0.013073	31.771	194.336	ug/L	88.334
> 169 Tm			840414.141	ug/L	823579.508
> 106 Pd			10.970	ug/L	27.283
> 84 Kr			5338.200	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	106.005
|	Cd	111	
>	In-1	115	104.560
|	Pb	208	
>	Tm-1	169	102.044
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	106.005
|	Cd	108	
|	Cd	114	
>	In	115	104.560
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	102.044
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 11

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:10:50

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 11.073

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1624726.806	ug/L	1450250.515
44 Ca	5247.442801	1.157	2148827.776	ug/L	49646.588
52 Cr	103.127597	2.033	1368462.616	ug/L	24602.149
55 Mn	102.511628	2.123	2150168.986	ug/L	4671.715
54 Fe	5274.338049	1.875	5498701.585	ug/L	104203.515
57 Fe	5268.563521	1.218	2211693.311	ug/L	12317.824
60 Ni	101.255068	0.720	329006.510	ug/L	219.228
65 Cu	100.591730	0.979	327110.755	ug/L	191.958
68 Zn	99.581636	0.709	122248.250	ug/L	1379.571
75 As	99.932257	0.747	321440.345	ug/L	14659.935
> 72 Ge-1			1430855.382	ug/L	1358190.823
111 Cd	98.628170	1.682	266128.294	ug/L	26.863
> 115 In-1			1239337.250	ug/L	1211499.522
208 Pb	98.612657	0.892	2758246.778	ug/L	288.002
> 169 Tm-1			827253.220	ug/L	823579.508
50 Cr	125.694999	1.997	31105.250	ug/L	-979.266
53 Cr	-17.641610	7.996	108935.038	ug/L	130001.298
61 Ni	96.686716	1.146	7511.395	ug/L	2226.757
63 Cu	100.839647	0.914	248459.140	ug/L	154.339
67 Zn	94.967913	1.365	14786.283	ug/L	3783.149
66 Zn	99.798280	1.452	63626.346	ug/L	200.342
> 72 Ge			1430855.382	ug/L	1358190.823
108 Cd	98.771398	1.266	18544.897	ug/L	8.075
114 Cd	97.829740	1.558	628900.839	ug/L	35.023
> 115 In			1239337.250	ug/L	1211499.522
208 207.977	99.046153	0.943	1411495.613	ug/L	134.335
207 Pb	97.843481	0.812	576479.222	ug/L	65.334
206 Pb	98.402389	0.882	770271.943	ug/L	88.334
> 169 Tm			827253.220	ug/L	823579.508
106 Pd			-2934.246	ug/L	27.283
84 Kr			5249.527	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	105.350
|	Cd	111	
>	In-1	115	102.298
|	Pb	208	
>	Tm-1	169	100.446
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	105.350
|	Cd	108	
|	Cd	114	
>	In	115	102.298
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.446
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 11

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:14:40

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 11.074

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1635516.878	ug/L	1450250.515
44 Ca	-0.684530	373.282	51930.768	ug/L	49646.588
52 Cr	0.260310	16.944	29250.755	ug/L	24602.149
55 Mn	-0.028918	10.202	4308.458	ug/L	4671.715
54 Fe	6.354901	19.353	116046.898	ug/L	104203.515
57 Fe	3.183382	26.072	14277.340	ug/L	12317.824
60 Ni	0.003247	140.971	240.967	ug/L	219.228
65 Cu	0.029501	15.262	297.508	ug/L	191.958
68 Zn	-0.043832	197.126	1397.498	ug/L	1379.571
75 As	0.075410	251.008	15643.320	ug/L	14659.935
> 72 Ge-1			1428116.210	ug/L	1358190.823
> 111 Cd	0.008863	30.053	51.914	ug/L	26.863
> 115 In-1			1250846.822	ug/L	1211499.522
> 208 Pb	0.015149	20.198	723.016	ug/L	288.002
> 169 Tm-1			838398.826	ug/L	823579.508
> 50 Cr	2.424303	11.607	-411.298	ug/L	-979.266
> 53 Cr	-54.066350	1.679	51009.001	ug/L	130001.298
> 61 Ni	-3.996482	33.985	2128.664	ug/L	2226.757
> 63 Cu	0.013313	44.729	195.008	ug/L	154.339
> 67 Zn	0.023658	9265.217	3980.826	ug/L	3783.149
> 66 Zn	-0.016263	88.756	200.342	ug/L	200.342
> 72 Ge			1428116.210	ug/L	1358190.823
> 108 Cd	-0.000147	18123.951	8.310	ug/L	8.075
> 114 Cd	0.012931	22.195	120.159	ug/L	35.023
> 115 In			1250846.822	ug/L	1211499.522
> 208 207.977	0.016601	15.615	376.678	ug/L	134.335
> 207 Pb	0.014303	18.811	152.002	ug/L	65.334
> 206 Pb	0.013140	33.062	194.336	ug/L	88.334
> 169 Tm			838398.826	ug/L	823579.508
> 106 Pd			9.905	ug/L	27.283
> 84 Kr			5307.538	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery
Sc	45		
Ca	44		

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	105.148
|	Cd	111	
>	In-1	115	103.248
|	Pb	208	
>	Tm-1	169	101.799
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	105.148
|	Cd	108	
|	Cd	114	
>	In	115	103.248
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.799
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 12

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:49:06

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 12.083

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1640594.559	ug/L	1450250.515
44 Ca	5302.229049	0.439	2177454.238	ug/L	49646.588
52 Cr	104.229946	0.234	1387143.159	ug/L	24602.149
55 Mn	103.477921	0.844	2177278.707	ug/L	4671.715
54 Fe	5357.978052	0.829	5601656.352	ug/L	104203.515
57 Fe	5296.497351	1.127	2230203.316	ug/L	12317.824
60 Ni	102.074747	1.068	332688.292	ug/L	219.228
65 Cu	101.829526	0.711	332148.774	ug/L	191.958
68 Zn	100.318152	0.508	123519.400	ug/L	1379.571
75 As	100.078925	0.513	322870.265	ug/L	14659.935
> 72 Ge-1			1435147.021	ug/L	1358190.823
> 111 Cd	98.337431	0.483	268060.693	ug/L	26.863
> 115 In-1			1251869.440	ug/L	1211499.522
> 208 Pb	97.976646	0.229	2766260.393	ug/L	288.002
> 169 Tm-1			835050.444	ug/L	823579.508
> 50 Cr	127.723203	6.084	31718.544	ug/L	-979.266
> 53 Cr	-16.265469	5.622	111471.001	ug/L	130001.298
> 61 Ni	99.842858	3.229	7703.038	ug/L	2226.757
> 63 Cu	101.156145	1.107	250010.501	ug/L	154.339
> 67 Zn	94.487640	2.049	14777.236	ug/L	3783.149
> 66 Zn	99.877122	0.490	63875.616	ug/L	200.342
> 72 Ge			1435147.021	ug/L	1358190.823
> 108 Cd	98.991987	0.941	18774.753	ug/L	8.075
> 114 Cd	98.115260	0.541	637170.120	ug/L	35.023
> 115 In			1251869.440	ug/L	1211499.522
> 208 207.977	98.213002	0.108	1412824.839	ug/L	134.335
> 207 Pb	97.206566	0.316	578138.427	ug/L	65.334
> 206 Pb	98.125966	1.134	775297.126	ug/L	88.334
> 169 Tm			835050.444	ug/L	823579.508
> 106 Pd			-2597.446	ug/L	27.283
> 84 Kr			5205.594	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	105.666
|	Cd	111	
>	In-1	115	103.332
|	Pb	208	
>	Tm-1	169	101.393
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	105.666
|	Cd	108	
|	Cd	114	
>	In	115	103.332
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.393
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 12

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:52:55

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 12.084

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1646438.031	ug/L	1450250.515
44 Ca	-1.893398	114.978	51700.531	ug/L	49646.588
52 Cr	0.314323	24.538	30093.672	ug/L	24602.149
55 Mn	-0.021964	41.280	4474.240	ug/L	4671.715
54 Fe	6.236844	49.426	116484.270	ug/L	104203.515
57 Fe	3.069350	34.149	14299.237	ug/L	12317.824
60 Ni	-0.002206	94.752	224.425	ug/L	219.228
65 Cu	0.021000	4.217	271.335	ug/L	191.958
68 Zn	-0.127872	59.856	1301.350	ug/L	1379.571
75 As	-0.137007	43.845	15069.461	ug/L	14659.935
> 72 Ge-1			1435293.327	ug/L	1358190.823
[111 Cd	0.011146	43.450	58.226	ug/L	26.863
> 115 In-1			1255043.707	ug/L	1211499.522
[208 Pb	0.018283	23.777	820.354	ug/L	288.002
> 169 Tm-1			847704.746	ug/L	823579.508
[50 Cr	2.398006	7.390	-419.880	ug/L	-979.266
[53 Cr	-54.024245	1.982	51328.161	ug/L	130001.298
[61 Ni	-5.085633	13.299	2080.285	ug/L	2226.757
[63 Cu	0.020965	37.699	214.677	ug/L	154.339
[67 Zn	-1.322909	185.281	3846.262	ug/L	3783.149
[66 Zn	-0.017735	60.881	200.342	ug/L	200.342
> 72 Ge			1435293.327	ug/L	1358190.823
[108 Cd	0.006524	673.827	9.557	ug/L	8.075
[114 Cd	0.015045	23.202	134.076	ug/L	35.023
> 115 In			1255043.707	ug/L	1211499.522
[208 207.977	0.019613	22.013	424.681	ug/L	134.335
[207 Pb	0.016314	23.011	165.669	ug/L	65.334
[206 Pb	0.017345	28.984	230.004	ug/L	88.334
> 169 Tm			847704.746	ug/L	823579.508
[106 Pd			8.254	ug/L	27.283
[84 Kr			5182.598	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	105.677
|	Cd	111	
>	In-1	115	103.594
|	Pb	208	
>	Tm-1	169	102.929
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	105.677
|	Cd	108	
|	Cd	114	
>	In	115	103.594
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	102.929
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 13

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 19:56:45

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 13.085

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1608369.223	ug/L	1450250.515
44 Ca	5293.722917	0.507	2148945.126	ug/L	49646.588
52 Cr	104.159930	1.725	1370129.081	ug/L	24602.149
55 Mn	102.518422	0.935	2132163.726	ug/L	4671.715
54 Fe	5276.899136	0.581	5454752.848	ug/L	104203.515
57 Fe	5263.122297	0.549	2190676.022	ug/L	12317.824
60 Ni	100.816941	0.600	324799.422	ug/L	219.228
65 Cu	101.103027	0.382	325993.176	ug/L	191.958
68 Zn	99.830204	0.748	121507.497	ug/L	1379.571
75 As	100.160288	0.614	319402.570	ug/L	14659.935
> 72 Ge-1			1418671.352	ug/L	1358190.823
111 Cd	97.995742	0.225	262547.938	ug/L	26.863
> 115 In-1			1230347.225	ug/L	1211499.522
208 Pb	98.628840	0.709	2758982.158	ug/L	288.002
> 169 Tm-1			827372.074	ug/L	823579.508
50 Cr	123.153741	3.163	30200.286	ug/L	-979.266
53 Cr	-17.032018	1.158	108975.349	ug/L	130001.298
61 Ni	95.136324	2.197	7364.917	ug/L	2226.757
63 Cu	100.614848	0.137	245801.115	ug/L	154.339
67 Zn	92.538533	1.897	14385.386	ug/L	3783.149
66 Zn	99.060290	0.447	62627.996	ug/L	200.342
> 72 Ge			1418671.352	ug/L	1358190.823
108 Cd	99.336312	1.074	18516.568	ug/L	8.075
114 Cd	97.900369	0.531	624883.777	ug/L	35.023
> 115 In			1230347.225	ug/L	1211499.522
208 207.977	98.910579	0.828	1409696.044	ug/L	134.335
207 Pb	97.682078	0.690	575587.642	ug/L	65.334
206 Pb	98.828523	0.535	773698.472	ug/L	88.334
> 169 Tm			827372.074	ug/L	823579.508
106 Pd			-2655.576	ug/L	27.283
84 Kr			5085.053	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	104.453
|	Cd	111	
>	In-1	115	101.556
|	Pb	208	
>	Tm-1	169	100.460
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	104.453
|	Cd	108	
|	Cd	114	
>	In	115	101.556
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.460
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 13

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 20:00:35

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 13.086

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1612356.858	ug/L	1450250.515
44 Ca	-3.544446	50.058	50249.992	ug/L	49646.588
52 Cr	0.277227	18.060	29158.679	ug/L	24602.149
55 Mn	-0.029327	11.634	4254.089	ug/L	4671.715
54 Fe	7.123362	32.040	115595.623	ug/L	104203.515
57 Fe	2.680010	31.282	13919.556	ug/L	12317.824
60 Ni	-0.000870	916.678	225.369	ug/L	219.228
65 Cu	0.029808	6.908	295.375	ug/L	191.958
68 Zn	-0.099164	63.038	1316.636	ug/L	1379.571
75 As	-0.129527	88.579	14857.689	ug/L	14659.935
> 72 Ge-1			1412916.654	ug/L	1358190.823
111 Cd	0.009279	13.961	52.550	ug/L	26.863
> 115 In-1			1240204.544	ug/L	1211499.522
208 Pb	0.016834	28.609	766.018	ug/L	288.002
> 169 Tm-1			832815.775	ug/L	823579.508
50 Cr	2.301996	2.993	-437.556	ug/L	-979.266
53 Cr	-54.175693	0.777	50298.259	ug/L	130001.298
61 Ni	-5.197590	12.980	2042.251	ug/L	2226.757
63 Cu	0.020613	20.137	210.676	ug/L	154.339
67 Zn	-0.277615	514.636	3905.024	ug/L	3783.149
66 Zn	0.002075	788.058	209.676	ug/L	200.342
> 72 Ge			1412916.654	ug/L	1358190.823
108 Cd	0.027948	94.420	13.532	ug/L	8.075
114 Cd	0.013188	10.234	120.694	ug/L	35.023
> 115 In			1240204.544	ug/L	1211499.522
208 207.977	0.016963	35.186	379.678	ug/L	134.335
207 Pb	0.018587	5.266	176.336	ug/L	65.334
206 Pb	0.015279	38.800	210.004	ug/L	88.334
> 169 Tm			832815.775	ug/L	823579.508
106 Pd			11.807	ug/L	27.283
84 Kr			5204.890	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	104.029
|	Cd	111	
>	In-1	115	102.369
|	Pb	208	
>	Tm-1	169	101.121
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	104.029
|	Cd	108	
|	Cd	114	
>	In	115	102.369
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.121
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 14

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 20:30:52

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 14.094

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1591708.082	ug/L	1450250.515
44 Ca	5337.032416	0.807	2116832.682	ug/L	49646.588
52 Cr	104.857721	0.838	1347884.924	ug/L	24602.149
55 Mn	104.003745	1.828	2113803.943	ug/L	4671.715
54 Fe	5346.283361	1.701	5399264.516	ug/L	104203.515
57 Fe	5312.201745	1.068	2160646.419	ug/L	12317.824
60 Ni	101.729628	1.689	320300.372	ug/L	219.228
65 Cu	101.566384	1.111	320027.232	ug/L	191.958
68 Zn	100.581914	0.918	119631.123	ug/L	1379.571
75 As	99.946545	0.300	311510.470	ug/L	14659.935
> 72 Ge-1			1386378.390	ug/L	1358190.823
111 Cd	98.431875	0.139	258323.438	ug/L	26.863
> 115 In-1			1205199.390	ug/L	1211499.522
208 Pb	99.804695	0.581	2762199.601	ug/L	288.002
> 169 Tm-1			818551.313	ug/L	823579.508
50 Cr	121.492572	2.851	29088.929	ug/L	-979.266
53 Cr	-17.133708	5.072	106339.927	ug/L	130001.298
61 Ni	94.513726	4.352	7165.956	ug/L	2226.757
63 Cu	101.566961	1.522	242492.227	ug/L	154.339
67 Zn	95.813155	2.421	14420.958	ug/L	3783.149
66 Zn	99.987563	0.563	61772.647	ug/L	200.342
> 72 Ge			1386378.390	ug/L	1358190.823
108 Cd	97.777031	0.467	17854.394	ug/L	8.075
114 Cd	97.940299	0.431	612344.334	ug/L	35.023
> 115 In			1205199.390	ug/L	1211499.522
208 207.977	100.030427	0.870	1410514.030	ug/L	134.335
207 Pb	99.269390	0.461	578722.554	ug/L	65.334
206 Pb	99.796648	0.260	772963.017	ug/L	88.334
> 169 Tm			818551.313	ug/L	823579.508
106 Pd			-2494.200	ug/L	27.283
84 Kr			5124.766	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	102.075
|	Cd	111	
>	In-1	115	99.480
|	Pb	208	
>	Tm-1	169	99.389
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	102.075
|	Cd	108	
|	Cd	114	
>	In	115	99.480
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	99.389
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 14

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 20:34:42

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 14.095

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1591977.144	ug/L	1450250.515
44 Ca	-3.865752	51.923	49151.785	ug/L	49646.588
52 Cr	0.191009	25.787	27508.691	ug/L	24602.149
55 Mn	-0.024221	27.224	4275.437	ug/L	4671.715
54 Fe	6.858658	32.254	113089.427	ug/L	104203.515
57 Fe	2.539905	19.725	13591.900	ug/L	12317.824
60 Ni	0.006895	95.013	245.306	ug/L	219.228
65 Cu	0.026941	42.092	280.594	ug/L	191.958
68 Zn	-0.098295	37.903	1291.707	ug/L	1379.571
75 As	-0.070624	72.320	14747.469	ug/L	14659.935
> 72 Ge-1			1385651.315	ug/L	1358190.823
111 Cd	0.012668	23.000	60.388	ug/L	26.863
> 115 In-1			1213269.982	ug/L	1211499.522
208 Pb	0.022035	17.445	894.691	ug/L	288.002
> 169 Tm-1			816832.106	ug/L	823579.508
50 Cr	2.437795	7.069	-395.845	ug/L	-979.266
53 Cr	-55.219430	1.294	47718.924	ug/L	130001.298
61 Ni	-7.015108	38.584	1908.804	ug/L	2226.757
63 Cu	0.027573	58.479	223.345	ug/L	154.339
67 Zn	-0.643087	434.487	3789.840	ug/L	3783.149
66 Zn	-0.032618	86.549	184.341	ug/L	200.342
> 72 Ge			1385651.315	ug/L	1358190.823
108 Cd	0.019416	37.722	11.644	ug/L	8.075
114 Cd	0.016648	37.670	140.118	ug/L	35.023
> 115 In			1213269.982	ug/L	1211499.522
208 207.977	0.022162	12.644	445.349	ug/L	134.335
207 Pb	0.022929	18.831	198.336	ug/L	65.334
206 Pb	0.021133	29.356	251.005	ug/L	88.334
> 169 Tm			816832.106	ug/L	823579.508
106 Pd			7.302	ug/L	27.283
84 Kr			5076.072	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	102.022
|	Cd	111	
>	In-1	115	100.146
|	Pb	208	
>	Tm-1	169	99.181
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	102.022
|	Cd	108	
|	Cd	114	
>	In	115	100.146
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	99.181
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 15

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 20:38:32

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 15.096

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1578427.463	ug/L	1450250.515
44 Ca	5297.471320	1.523	2091133.063	ug/L	49646.588
52 Cr	103.258594	0.667	1321147.473	ug/L	24602.149
55 Mn	102.088234	0.547	2064660.973	ug/L	4671.715
54 Fe	5294.460382	0.592	5321685.977	ug/L	104203.515
57 Fe	5217.584827	1.510	2111805.325	ug/L	12317.824
60 Ni	100.346809	0.603	314357.328	ug/L	219.228
65 Cu	100.634700	0.195	315511.558	ug/L	191.958
68 Zn	100.384350	0.560	118805.016	ug/L	1379.571
75 As	99.640863	1.460	309034.016	ug/L	14659.935
> 72 Ge-1			1379477.629	ug/L	1358190.823
111 Cd	98.132492	0.702	256351.243	ug/L	26.863
> 115 In-1			1199662.342	ug/L	1211499.522
208 Pb	98.679546	1.252	2718144.281	ug/L	288.002
> 169 Tm-1			814724.605	ug/L	823579.508
50 Cr	124.489519	3.331	29682.463	ug/L	-979.266
53 Cr	-17.985485	9.750	104516.343	ug/L	130001.298
61 Ni	91.732439	1.429	6986.390	ug/L	2226.757
63 Cu	99.612438	0.356	236633.929	ug/L	154.339
67 Zn	95.124201	1.656	14273.357	ug/L	3783.149
66 Zn	99.128179	0.766	60935.421	ug/L	200.342
> 72 Ge			1379477.629	ug/L	1358190.823
108 Cd	97.923199	1.198	17798.755	ug/L	8.075
114 Cd	97.541216	0.290	607051.707	ug/L	35.023
> 115 In			1199662.342	ug/L	1211499.522
208 207.977	99.107650	1.433	1390872.149	ug/L	134.335
207 Pb	98.134242	1.224	569400.568	ug/L	65.334
206 Pb	98.310587	1.031	757871.564	ug/L	88.334
> 169 Tm			814724.605	ug/L	823579.508
106 Pd			-2565.517	ug/L	27.283
84 Kr			5136.141	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

Report Date/Time: Tuesday, October 26, 2010 20:40:05

Page 1

Sample ID: CCV 15

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	101.567
|	Cd	111	
>	In-1	115	99.023
|	Pb	208	
>	Tm-1	169	98.925
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	101.567
|	Cd	108	
|	Cd	114	
>	In	115	99.023
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	98.925
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 15

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 20:42:22

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 15.097

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1587713.548	ug/L	1450250.515
44 Ca	-5.341019	6.761	48380.215	ug/L	49646.588
52 Cr	0.184675	22.817	27314.516	ug/L	24602.149
55 Mn	-0.021946	18.417	4303.455	ug/L	4671.715
54 Fe	6.680743	23.290	112450.534	ug/L	104203.515
57 Fe	2.317759	13.404	13447.348	ug/L	12317.824
60 Ni	-0.001871	226.718	216.870	ug/L	219.228
65 Cu	0.029467	13.620	287.397	ug/L	191.958
68 Zn	-0.057324	164.106	1334.792	ug/L	1379.571
75 As	0.074986	179.611	15114.040	ug/L	14659.935
> 72 Ge-1			1379843.394	ug/L	1358190.823
111 Cd	0.014428	76.217	65.577	ug/L	26.863
> 115 In-1			1220382.455	ug/L	1211499.522
208 Pb	0.020121	23.855	850.689	ug/L	288.002
> 169 Tm-1			825066.919	ug/L	823579.508
50 Cr	2.418940	5.650	-398.601	ug/L	-979.266
53 Cr	-54.913914	1.972	47992.908	ug/L	130001.298
61 Ni	-4.800705	53.260	2015.229	ug/L	2226.757
63 Cu	0.027884	43.364	223.011	ug/L	154.339
67 Zn	0.725309	209.924	3923.388	ug/L	3783.149
66 Zn	-0.020448	37.915	191.008	ug/L	200.342
> 72 Ge			1379843.394	ug/L	1358190.823
108 Cd	0.011105	275.738	10.162	ug/L	8.075
114 Cd	0.020961	22.116	167.936	ug/L	35.023
> 115 In			1220382.455	ug/L	1211499.522
208 207.977	0.020546	22.590	427.015	ug/L	134.335
207 Pb	0.020311	27.038	185.003	ug/L	65.334
206 Pb	0.019205	26.477	238.671	ug/L	88.334
> 169 Tm			825066.919	ug/L	823579.508
106 Pd			9.570	ug/L	27.283
84 Kr			5091.935	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	101.594
|	Cd	111	
>	In-1	115	100.733
|	Pb	208	
>	Tm-1	169	100.181
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	101.594
|	Cd	108	
|	Cd	114	
>	In	115	100.733
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.181
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 16

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:16:35

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 16.106

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1628935.210	ug/L	1450250.515
44 Ca	5373.354891	0.670	2148958.931	ug/L	49646.588
52 Cr	104.267284	0.220	1351739.217	ug/L	24602.149
55 Mn	103.339008	0.896	2117929.991	ug/L	4671.715
54 Fe	5281.778013	1.246	5379982.941	ug/L	104203.515
57 Fe	5247.069496	0.794	2152170.202	ug/L	12317.824
60 Ni	101.406777	1.114	321932.340	ug/L	219.228
65 Cu	101.088065	0.713	321186.312	ug/L	191.958
68 Zn	100.159374	1.266	120127.636	ug/L	1379.571
75 As	98.818784	0.376	310760.815	ug/L	14659.935
> 72 Ge-1			1398034.093	ug/L	1358190.823
111 Cd	97.884338	0.465	257945.680	ug/L	26.863
> 115 In-1			1210155.669	ug/L	1211499.522
208 Pb	99.167753	0.610	2748328.397	ug/L	288.002
> 169 Tm-1			819702.801	ug/L	823579.508
50 Cr	120.986364	5.868	29203.844	ug/L	-979.266
53 Cr	-18.797347	2.363	104656.566	ug/L	130001.298
61 Ni	92.817278	1.421	7136.522	ug/L	2226.757
63 Cu	100.188253	0.772	241185.895	ug/L	154.339
67 Zn	92.875733	0.871	14214.652	ug/L	3783.149
66 Zn	99.418525	1.275	61938.178	ug/L	200.342
> 72 Ge			1398034.093	ug/L	1358190.823
108 Cd	97.283819	0.679	17837.196	ug/L	8.075
114 Cd	96.806427	0.073	607754.617	ug/L	35.023
> 115 In			1210155.669	ug/L	1211499.522
208 207.977	99.167812	0.613	1400258.535	ug/L	134.335
207 Pb	98.931678	0.558	577558.527	ug/L	65.334
206 Pb	99.345337	0.754	770511.336	ug/L	88.334
> 169 Tm			819702.801	ug/L	823579.508
106 Pd			-2442.395	ug/L	27.283
84 Kr			5218.027	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

Report Date/Time: Tuesday, October 26, 2010 21:18:08

Page 1

Sample ID: CCV 16

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
>	Ge-1	72	102.934
|	Cd	111	
>	In-1	115	99.889
|	Pb	208	
>	Tm-1	169	99.529
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
>	Ge	72	102.934
|	Cd	108	
|	Cd	114	
>	In	115	99.889
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	99.529
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 16

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:20:25

Method File: c:\elandata\Method\0288259b.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 16.107

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1609845.613	ug/L	1450250.515
44 Ca	-0.875030	306.304	50614.190	ug/L	49646.588
52 Cr	0.155499	36.296	27222.455	ug/L	24602.149
55 Mn	-0.026599	18.626	4252.421	ug/L	4671.715
54 Fe	5.205428	32.747	112133.096	ug/L	104203.515
57 Fe	1.724600	34.552	13343.716	ug/L	12317.824
60 Ni	-0.001034	276.449	221.747	ug/L	219.228
65 Cu	0.036454	10.460	312.449	ug/L	191.958
68 Zn	-0.119816	62.450	1274.185	ug/L	1379.571
75 As	-0.287548	29.811	14188.605	ug/L	14659.935
> 72 Ge-1			1394054.516	ug/L	1358190.823
111 Cd	0.012986	32.568	60.899	ug/L	26.863
> 115 In-1			1206603.625	ug/L	1211499.522
208 Pb	0.019834	15.489	845.355	ug/L	288.002
> 169 Tm-1			828432.083	ug/L	823579.508
50 Cr	2.417303	5.067	-403.018	ug/L	-979.266
53 Cr	-56.334155	1.895	46282.488	ug/L	130001.298
61 Ni	-5.588764	20.580	1994.542	ug/L	2226.757
63 Cu	0.017638	47.129	200.676	ug/L	154.339
67 Zn	-2.223102	76.447	3636.244	ug/L	3783.149
66 Zn	-0.002630	187.334	204.009	ug/L	200.342
> 72 Ge			1394054.516	ug/L	1358190.823
108 Cd	0.038309	41.134	15.050	ug/L	8.075
114 Cd	0.018227	19.248	148.964	ug/L	35.023
> 115 In			1206603.625	ug/L	1211499.522
208 207.977	0.020589	16.143	429.015	ug/L	134.335
207 Pb	0.018355	10.303	174.002	ug/L	65.334
206 Pb	0.019571	25.081	242.338	ug/L	88.334
> 169 Tm			828432.083	ug/L	823579.508
106 Pd			14.522	ug/L	27.283
84 Kr			4934.540	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	

Report Date/Time: Tuesday, October 26, 2010 21:21:59

Page 1

Sample ID: CCB 16

|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
L>	Ge-1	72	102.641
|	Cd	111	
L>	In-1	115	99.596
|	Pb	208	
L>	Tm-1	169	100.589
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
L>	Ge	72	102.641
|	Cd	108	
|	Cd	114	
L>	In	115	99.596
|	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	100.589
|	Pd	106	
|	Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 17

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:24:15

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 17.108

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1786122.549	ug/L	1450250.515
44 Ca	6002.265154	1.427	2408391.857	ug/L	49646.588
55 Mn	108.528746	0.296	2237147.894	ug/L	4671.715
75 As	98.473092	0.240	311527.169	ug/L	14659.935
72 Ge-1			1406194.711	ug/L	1358190.823
106 Pd			-2619.024	ug/L	27.283
84 Kr			5334.510	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.534
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 17

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:27:10

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 17.109

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1793214.745	ug/L	1450250.515
44 Ca	27.887262	2.288	62489.657	ug/L	49646.588
55 Mn	-0.010465	27.715	4631.685	ug/L	4671.715
75 As	-0.183396	93.899	14658.422	ug/L	14659.935
72 Ge-1			1409299.647	ug/L	1358190.823
106 Pd			10.783	ug/L	27.283
84 Kr			5084.799	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.763
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 18

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:30:06

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 18.110

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1790123.982	ug/L	1450250.515
44 Ca	6015.832264	0.951	2422335.781	ug/L	49646.588
55 Mn	109.212013	0.642	2259271.659	ug/L	4671.715
75 As	99.046800	0.381	314378.017	ug/L	14659.935
72 Ge-1			1411274.776	ug/L	1358190.823
106 Pd			-2488.271	ug/L	27.283
84 Kr			5090.234	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.908
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 18

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:33:01

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 18.111

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1782997.292	ug/L	1450250.515
44 Ca	26.259566	3.274	61647.175	ug/L	49646.588
55 Mn	-0.005625	88.507	4716.748	ug/L	4671.715
75 As	-0.023067	545.291	15092.934	ug/L	14659.935
72 Ge-1			1404723.524	ug/L	1358190.823
106 Pd			10.042	ug/L	27.283
84 Kr			5138.759	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.426
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L84F1B

Sample Description: G0J260000-248 BLK

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:35:58

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L84F1B.112

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

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

Autosampler Position: 25

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1817057.768	ug/L	1450250.515
[44 Ca	156.460137	0.850	113706.538	ug/L	49646.588
| 55 Mn	0.115593	5.814	7269.818	ug/L	4671.715
| 75 As	0.043858	84.397	15427.584	ug/L	14659.935
[> 72 Ge-1			1417005.090	ug/L	1358190.823
106 Pd			12.411	ug/L	27.283
84 Kr			5136.658	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[Ca	44	
| Mn	55	
| As	75	
[> Ge-1	72	104.330
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L84F1C

Sample Description: G0J260000-248 LCS

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:38:54

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L84F1C.113

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

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

Autosampler Position: 109

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1785239.474	ug/L	1450250.515
[44 Ca	1354.491035	1.213	583622.280	ug/L	49646.588
| 55 Mn	202.786234	1.070	4178344.227	ug/L	4671.715
| 75 As	183.650375	0.304	568224.438	ug/L	14659.935
[> 72 Ge-1			1407113.186	ug/L	1358190.823
106 Pd			-5050.024	ug/L	27.283
84 Kr			5329.154	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[Ca	44	
| Mn	55	
| As	75	
[> Ge-1	72	103.602
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L84F1L

Sample Description: G0J260000-248 LCSD

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:41:47

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L84F1L.114

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

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

Autosampler Position: 110

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1779051.051	ug/L	1450250.515
44 Ca	1355.309200	0.559	577600.501	ug/L	49646.588
55 Mn	205.236642	1.145	4182741.825	ug/L	4671.715
75 As	183.631182	0.155	561954.972	ug/L	14659.935
72 Ge-1			1391718.555	ug/L	1358190.823
106 Pd			-4711.269	ug/L	27.283
84 Kr			5005.958	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	102.469
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHK

Sample Description: G0J210484-1

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:44:40

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHK.115

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

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

Autosampler Position: 87

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1774677.070	ug/L	1450250.515
44 Ca	5232.622413	1.234	2095088.443	ug/L	49646.588
55 Mn	392.236400	1.038	8030383.661	ug/L	4671.715
75 As	0.447264	23.984	16437.530	ug/L	14659.935
72 Ge-1			1398838.775	ug/L	1358190.823
106 Pd			608.726	ug/L	27.283
84 Kr			5086.092	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	102.993
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHKP5

Sample Description: G0J210484-1 5X

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:47:32

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHKP5.116

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

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

Autosampler Position: 88

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1787654.132	ug/L	1450250.515
44 Ca	1115.183124	0.517	492019.621	ug/L	49646.588
55 Mn	78.288718	0.449	1624094.061	ug/L	4671.715
75 As	0.061277	64.551	15447.751	ug/L	14659.935
72 Ge-1			1413989.563	ug/L	1358190.823
106 Pd			136.779	ug/L	27.283
84 Kr			4886.978	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	104.108
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHKZ

Sample Description: G0J210484-1 PS

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:50:25

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHKZ.117

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

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

Autosampler Position: 89

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1773028.204	ug/L	1450250.515
44 Ca	6348.548818	0.429	2523374.010	ug/L	49646.588
55 Mn	604.459690	1.042	12334787.337	ug/L	4671.715
75 As	204.880985	0.619	626535.452	ug/L	14659.935
72 Ge-1			1394636.545	ug/L	1358190.823
106 Pd			-4784.191	ug/L	27.283
84 Kr			5416.818	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	102.683
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHM

Sample Description: G0J210484-2

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 21:53:18

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHM.118

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

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

Autosampler Position: 90

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1785908.679	ug/L	1450250.515
[44 Ca	3369.904815	0.569	1383078.531	ug/L	49646.588
| 55 Mn	102.949211	0.369	2135369.522	ug/L	4671.715
| 75 As	0.409660	10.393	16511.299	ug/L	14659.935
[> 72 Ge-1			1414786.118	ug/L	1358190.823
106 Pd			449.813	ug/L	27.283
84 Kr			5164.716	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[Ca	44	
| Mn	55	
| As	75	
[> Ge-1	72	104.167
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 19

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:56:12

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 19.119

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1790675.904	ug/L	1450250.515
44 Ca	5985.001230	0.308	2399611.326	ug/L	49646.588
55 Mn	108.590009	0.401	2236499.191	ug/L	4671.715
75 As	98.931490	0.513	312652.072	ug/L	14659.935
72 Ge-1			1405032.392	ug/L	1358190.823
106 Pd			-2609.478	ug/L	27.283
84 Kr			4905.116	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.449
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 19

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 21:59:07

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 19.120

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1791931.526	ug/L	1450250.515
44 Ca	24.639855	2.794	61273.584	ug/L	49646.588
55 Mn	-0.001133	110.723	4829.165	ug/L	4671.715
75 As	-0.157637	114.144	14751.912	ug/L	14659.935
72 Ge-1			1410754.578	ug/L	1358190.823
106 Pd			14.805	ug/L	27.283
84 Kr			5213.059	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.870
Pd	106	
Kr	84	

BJones

Sample ID: CCV 20

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 22:02:03

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 20.121

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1768578.334	ug/L	1450250.515
44 Ca	5964.565702	0.700	2382581.791	ug/L	49646.588
55 Mn	109.086386	0.559	2238294.437	ug/L	4671.715
75 As	99.169980	0.672	312178.245	ug/L	14659.935
72 Ge-1			1399732.867	ug/L	1358190.823
106 Pd			-2738.692	ug/L	27.283
84 Kr			5110.576	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	103.059
Pd	106	
Kr	84	

BJones

Sample ID: CCB 20

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 22:04:58

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 20.122

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1784363.298	ug/L	1450250.515
44 Ca	21.116685	2.391	59346.791	ug/L	49646.588
55 Mn	-0.006783	29.460	4670.046	ug/L	4671.715
75 As	0.094625	196.027	15374.419	ug/L	14659.935
72 Ge-1			1398017.837	ug/L	1358190.823
106 Pd			15.708	ug/L	27.283
84 Kr			5027.094	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	102.932
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHN

Sample Description: G0J210484-3

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:07:53

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHN.123

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

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

Autosampler Position: 91

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1795187.865	ug/L	1450250.515
44 Ca	4056.860228	0.515	1652893.467	ug/L	49646.588
55 Mn	4468.791712	0.926	92393550.257	ug/L	4671.715
75 As	1.270955	4.593	19100.076	ug/L	14659.935
72 Ge-1			1413453.108	ug/L	1358190.823
106 Pd			1780.580	ug/L	27.283
84 Kr			4934.774	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	104.069
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHQ

Sample Description: G0J210484-4

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:10:47

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHQ.124

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

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

Autosampler Position: 92

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1795105.077	ug/L	1450250.515
44 Ca	3006.535237	1.001	1241014.718	ug/L	49646.588
55 Mn	46.377434	1.778	965778.815	ug/L	4671.715
75 As	0.484241	20.802	16756.885	ug/L	14659.935
72 Ge-1			1416509.276	ug/L	1358190.823
106 Pd			425.193	ug/L	27.283
84 Kr			4875.820	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	104.294
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHT

Sample Description: G0J210484-5

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:13:41

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHT.125

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

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

Autosampler Position: 93

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1807785.481	ug/L	1450250.515
44 Ca	4432.899077	1.124	1817245.396	ug/L	49646.588
55 Mn	2149.909513	1.169	44846991.618	ug/L	4671.715
75 As	1.018845	11.146	18499.724	ug/L	14659.935
72 Ge-1			1425946.006	ug/L	1358190.823
106 Pd			1535.858	ug/L	27.283
84 Kr			5271.155	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	104.989
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHW

Sample Description: G0J210484-6

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:16:35

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHW.126

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

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

Autosampler Position: 94

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1792973.279	ug/L	1450250.515
44 Ca	3631.307213	0.678	1484247.915	ug/L	49646.588
55 Mn	535.563448	0.238	11072510.747	ug/L	4671.715
75 As	0.479539	33.159	16697.017	ug/L	14659.935
72 Ge-1			1412810.988	ug/L	1358190.823
106 Pd			924.831	ug/L	27.283
84 Kr			4863.492	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	104.022
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VHX

Sample Description: G0J210484-7

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:19:31

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VHX.127

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

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

Autosampler Position: 95

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1792290.276	ug/L	1450250.515
44 Ca	3388.882429	0.330	1389908.898	ug/L	49646.588
55 Mn	1706.116598	0.209	35294714.678	ug/L	4671.715
75 As	0.748487	19.607	17527.782	ug/L	14659.935
72 Ge-1			1414087.101	ug/L	1358190.823
106 Pd			1107.565	ug/L	27.283
84 Kr			5127.036	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	104.115
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VH0

Sample Description: G0J210484-8

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:22:26

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VH0.128

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

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

Autosampler Position: 96

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1800576.002	ug/L	1450250.515
44 Ca	4304.566886	0.477	1752454.468	ug/L	49646.588
55 Mn	2101.008095	0.385	43485621.983	ug/L	4671.715
75 As	0.887413	4.031	17958.244	ug/L	14659.935
72 Ge-1			1414843.014	ug/L	1358190.823
106 Pd			1320.255	ug/L	27.283
84 Kr			4834.852	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	104.171
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: L8VH2

Sample Description: G0J210484-9

Batch ID: 299248

Sample Date/Time: Tuesday, October 26, 2010 22:25:22

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\L8VH2.129

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

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

Autosampler Position: 97

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1813270.204	ug/L	1450250.515
44 Ca	1451.408953	0.934	632648.710	ug/L	49646.588
55 Mn	23.927978	0.544	506054.635	ug/L	4671.715
75 As	0.115912	61.401	15809.373	ug/L	14659.935
72 Ge-1			1431798.242	ug/L	1358190.823
106 Pd			265.132	ug/L	27.283
84 Kr			5195.667	ug/L	5265.529

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Mn	55	
As	75	
Ge-1	72	105.420
Pd	106	
Kr	84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 21

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 22:28:17

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCV 21.130

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1801962.706	ug/L	1450250.515
44 Ca	5989.157470	0.547	2409910.502	ug/L	49646.588
55 Mn	109.357574	0.490	2260478.547	ug/L	4671.715
75 As	99.829257	0.454	316485.019	ug/L	14659.935
72 Ge-1			1410120.585	ug/L	1358190.823
106 Pd			-2457.316	ug/L	27.283
84 Kr			5247.877	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	103.823
Pd 106	
Kr 84	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 21

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, October 26, 2010 22:31:12

Method File: c:\elandata\Method\0288259c.mth

Dataset File: C:\elandata\Dataset\101026A1\CCB 21.131

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1799334.178	ug/L	1450250.515
44 Ca	21.722887	8.979	60005.652	ug/L	49646.588
55 Mn	0.023287	26.603	5322.560	ug/L	4671.715
75 As	-0.038061	264.756	15082.997	ug/L	14659.935
72 Ge-1			1407869.100	ug/L	1358190.823
106 Pd			7.237	ug/L	27.283
84 Kr			4955.471	ug/L	5265.529

Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
Sc 45	
Ca 44	
Mn 55	
As 75	
Ge-1 72	103.658
Pd 106	
Kr 84	

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 **104** Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 3X			3.0	10/26/10 14:30		<input type="checkbox"/>
2	Blank			1.0	10/26/10 14:34		<input type="checkbox"/>
3	Standard1			1.0	10/26/10 14:39		<input type="checkbox"/>
4	ICV			1.0	10/26/10 14:43		<input type="checkbox"/>
5	ICB			1.0	10/26/10 14:48		<input type="checkbox"/>
6	LLSTD1			1.0	10/26/10 14:52		<input type="checkbox"/>
7	LLSTD1			1.0	10/26/10 14:58		<input type="checkbox"/>
8	ICSA			1.0	10/26/10 15:02		<input type="checkbox"/>
9	ICSAB			1.0	10/26/10 15:06		<input type="checkbox"/>
10	Rinse			1.0	10/26/10 15:16		<input type="checkbox"/>
11	CCV 1			1.0	10/26/10 15:23		<input type="checkbox"/>
12	CCB 1			1.0	10/26/10 15:27		<input type="checkbox"/>
13	CCV 2			1.0	10/26/10 15:31		<input type="checkbox"/>
14	CCB 2			1.0	10/26/10 15:36		<input type="checkbox"/>
15	L8JJ7B	G0J150000	0288259	2A	1.0	10/26/10 15:40	<input type="checkbox"/>
16	L8JJ7C	G0J150000	0288259	2A	1.0	10/26/10 15:45	<input type="checkbox"/>
17	L8JJ7L	G0J150000	0288259	2A	1.0	10/26/10 15:49	<input type="checkbox"/>
18	L779A	G0J090430-3	0288259	2A	1.0	10/26/10 15:53	<input type="checkbox"/>
19	L779AP5	G0J090430	0288259		5.0	10/26/10 15:58	<input type="checkbox"/>
20	L779AZ	G0J090430-3	0288259		1.0	10/26/10 16:02	<input type="checkbox"/>
21	CCV 3			1.0	10/26/10 16:07		<input type="checkbox"/>
22	CCB 3			1.0	10/26/10 16:11		<input type="checkbox"/>
23	CCV 4			1.0	10/26/10 16:16		<input type="checkbox"/>
24	CCB 4			1.0	10/26/10 16:20		<input type="checkbox"/>
25	L822QB	G0J250000	0298338	2A	1.0	10/26/10 16:24	<input type="checkbox"/>
26	L822QC	G0J250000	0298338	2A	1.0	10/26/10 16:29	<input type="checkbox"/>
27	L822LL	G0J250000	0298335	2A	1.0	10/26/10 16:33	<input type="checkbox"/>
28	L8T2G	G0J210431-1	0298338	2A	1.0	10/26/10 16:38	<input type="checkbox"/>
29	L8T2GP5	G0J210431	0298338		5.0	10/26/10 16:42	<input type="checkbox"/>
30	L8T2GZ	G0J210431-1	0298338		1.0	10/26/10 16:46	<input type="checkbox"/>
31	L8T2J	G0J210431-2	0298338	2A	1.0	10/26/10 16:51	<input type="checkbox"/>
32	L8T2K	G0J210431-3	0298338	2A	1.0	10/26/10 16:55	<input type="checkbox"/>
33	CCV 5			1.0	10/26/10 17:00		<input type="checkbox"/>
34	CCB 5			1.0	10/26/10 17:04		<input type="checkbox"/>
35	CCV 6			1.0	10/26/10 17:08		<input type="checkbox"/>
36	CCB 6			1.0	10/26/10 17:13		<input type="checkbox"/>
37	L8T2L	G0J210431-4	0298338	2A	1.0	10/26/10 17:17	<input type="checkbox"/>
38	L8T2M	G0J210431-5	0298338	2A	1.0	10/26/10 17:22	<input type="checkbox"/>
39	L8T2N	G0J210431-6	0298338	2A	1.0	10/26/10 17:26	<input type="checkbox"/>
40	L8T2P	G0J210431-7	0298338	2A	1.0	10/26/10 17:31	<input type="checkbox"/>
41	L8T2Q	G0J210431-8	0298338	2A	1.0	10/26/10 17:35	<input type="checkbox"/>
42	LLSTD1			1.0	10/26/10 17:39		<input type="checkbox"/>
43	LLSTD2			1.0	10/26/10 17:44		<input type="checkbox"/>
44	ICSA			1.0	10/26/10 17:48		<input type="checkbox"/>
45	ICSAB			1.0	10/26/10 17:53		<input type="checkbox"/>
46	CCV 7			1.0	10/26/10 18:01		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ionesh

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
47	CCB 7				1.0 10/26/10 18:05		<input type="checkbox"/>
48	CCV 8				1.0 10/26/10 18:10		<input type="checkbox"/>
49	CCB 8				1.0 10/26/10 18:13		<input type="checkbox"/>
50	CCV 9				1.0 10/26/10 18:17		<input type="checkbox"/>
51	CCB 9				1.0 10/26/10 18:21		<input type="checkbox"/>
52	L8GPLB	G0J140000	0287371	2A	1.0 10/26/10 18:25		<input type="checkbox"/>
53	L8GPLC	G0J140000	0287371	2A	1.0 10/26/10 18:29		<input type="checkbox"/>
54	L8GPLL	G0J140000	0287371	2A	1.0 10/26/10 18:32		<input type="checkbox"/>
55	L77L1	G0J080620-1	0287371	2A	1.0 10/26/10 18:36		<input type="checkbox"/>
56	L77L1P5	G0J080620	0287371		5.0 10/26/10 18:40		<input type="checkbox"/>
57	L77L1Z	G0J080620-1	0287371		1.0 10/26/10 18:44		<input type="checkbox"/>
58	L77L2	G0J080620-2	0287371	2A	1.0 10/26/10 18:48		<input type="checkbox"/>
59	L77L3	G0J080620-3	0287371	2A	1.0 10/26/10 18:51		<input type="checkbox"/>
60	L77L4	G0J080620-4	0287371	2A	1.0 10/26/10 18:55		<input type="checkbox"/>
61	L77L5	G0J080620-5	0287371	2A	1.0 10/26/10 18:59		<input type="checkbox"/>
62	CCV 10				1.0 10/26/10 19:03		<input type="checkbox"/>
63	CCB 10				1.0 10/26/10 19:07		<input type="checkbox"/>
64	CCV 11				1.0 10/26/10 19:10		<input type="checkbox"/>
65	CCB 11				1.0 10/26/10 19:14		<input type="checkbox"/>
66	L822LB	G0J250000	0298335	2A	1.0 10/26/10 19:18		<input type="checkbox"/>
67	L8LDL	G0J150624-1	0298335	2A	1.0 10/26/10 19:22		<input type="checkbox"/>
68	L8LDLP5	G0J150624	0298335		5.0 10/26/10 19:26		<input type="checkbox"/>
69	L8LDLZ	G0J150624-1	0298335		1.0 10/26/10 19:29		<input type="checkbox"/>
70	L8LDM	G0J150624-2	0298335	2A	1.0 10/26/10 19:33		<input type="checkbox"/>
71	L8LDN	G0J150624-3	0298335	2A	1.0 10/26/10 19:37		<input type="checkbox"/>
72	L8LDP	G0J150624-4	0298335	2A	1.0 10/26/10 19:41		<input type="checkbox"/>
73	L8LDQ	G0J150624-5	0298335	2A	1.0 10/26/10 19:45		<input type="checkbox"/>
74	CCV 12				1.0 10/26/10 19:49		<input type="checkbox"/>
75	CCB 12				1.0 10/26/10 19:52		<input type="checkbox"/>
76	CCV 13				1.0 10/26/10 19:56		<input type="checkbox"/>
77	CCB 13				1.0 10/26/10 20:00		<input type="checkbox"/>
78	L81FKB	G0J220000	0295399	DF	1.0 10/26/10 20:04		<input type="checkbox"/>
79	L81FKC	G0J220000	0295399	DF	1.0 10/26/10 20:08		<input type="checkbox"/>
80	L81FKL	G0J220000	0295399	DF	1.0 10/26/10 20:12		<input type="checkbox"/>
81	L76K8	G0J080498-1	0295399	DF	1.0 10/26/10 20:15		<input type="checkbox"/>
82	L76K8P5	G0J080498	0295399		5.0 10/26/10 20:19		<input type="checkbox"/>
83	L76K8X	G0J080498-1	0295399	DF	1.0 10/26/10 20:23		<input type="checkbox"/>
84	L76K8Z	G0J080498-1	0295399		1.0 10/26/10 20:27		<input type="checkbox"/>
85	CCV 14				1.0 10/26/10 20:30		<input type="checkbox"/>
86	CCB 14				1.0 10/26/10 20:34		<input type="checkbox"/>
87	CCV 15				1.0 10/26/10 20:38		<input type="checkbox"/>
88	CCB 15				1.0 10/26/10 20:42		<input type="checkbox"/>
89	L76LH	G0J080498-2	0295399	DF	1.0 10/26/10 20:46		<input type="checkbox"/>
90	L76LHX	G0J080498-2	0295399	DF	1.0 10/26/10 20:49		<input type="checkbox"/>
91	L76LN	G0J080498-3	0295399	DF	1.0 10/26/10 20:53		<input type="checkbox"/>
92	L76LT	G0J080498-4	0295399	DF	1.0 10/26/10 20:57		<input type="checkbox"/>

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)	Instrument: M01	Reported: 10/27/10 13:49:50
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File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
93	L76LX	G0J080498-5	0295399	DF	1.0	10/26/10 21:01	<input type="checkbox"/>
94	L76L1	G0J080498-6	0295399	DF	1.0	10/26/10 21:05	<input type="checkbox"/>
95	L76L2	G0J080498-7	0295399	DF	1.0	10/26/10 21:08	<input type="checkbox"/>
96	L76L7	G0J080498-8	0295399	DF	1.0	10/26/10 21:12	<input type="checkbox"/>
97	CCV 16				1.0	10/26/10 21:16	<input type="checkbox"/>
98	CCB 16				1.0	10/26/10 21:20	<input type="checkbox"/>
99	CCV 17				1.0	10/26/10 21:24	<input type="checkbox"/>
100	CCB 17				1.0	10/26/10 21:27	<input type="checkbox"/>
101	CCV 18				1.0	10/26/10 21:30	<input type="checkbox"/>
102	CCB 18				1.0	10/26/10 21:33	<input type="checkbox"/>
103	L84F1B	G0J260000	0299248	2A	1.0	10/26/10 21:35	<input type="checkbox"/>
104	L84F1C	G0J260000	0299248	2A	1.0	10/26/10 21:38	<input type="checkbox"/>
105	L84F1L	G0J260000	0299248	2A	1.0	10/26/10 21:41	<input type="checkbox"/>
106	L8VHK	G0J210484-1	0299248	2A	1.0	10/26/10 21:44	<input type="checkbox"/>
107	L8VHKP5	G0J210484	0299248		5.0	10/26/10 21:47	<input type="checkbox"/>
108	L8VHKZ	G0J210484-1	0299248		1.0	10/26/10 21:50	<input type="checkbox"/>
109	L8VHM	G0J210484-2	0299248	2A	1.0	10/26/10 21:53	<input type="checkbox"/>
110	CCV 19				1.0	10/26/10 21:56	<input type="checkbox"/>
111	CCB 19				1.0	10/26/10 21:59	<input type="checkbox"/>
112	CCV 20				1.0	10/26/10 22:02	<input type="checkbox"/>
113	CCB 20				1.0	10/26/10 22:04	<input type="checkbox"/>
114	L8VHN	G0J210484-3	0299248	2A	1.0	10/26/10 22:07	<input type="checkbox"/>
115	L8VHQ	G0J210484-4	0299248	2A	1.0	10/26/10 22:10	<input type="checkbox"/>
116	L8VHT	G0J210484-5	0299248	2A	1.0	10/26/10 22:13	<input type="checkbox"/>
117	L8VHW	G0J210484-6	0299248	2A	1.0	10/26/10 22:16	<input type="checkbox"/>
118	L8VHX	G0J210484-7	0299248	2A	1.0	10/26/10 22:19	<input type="checkbox"/>
119	L8VH0	G0J210484-8	0299248	2A	1.0	10/26/10 22:22	<input type="checkbox"/>
120	L8VH2	G0J210484-9	0299248	2A	1.0	10/26/10 22:25	<input type="checkbox"/>
121	CCV 21				1.0	10/26/10 22:28	<input type="checkbox"/>
122	CCB 21				1.0	10/26/10 22:31	<input type="checkbox"/>

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneshb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 3X	10/26/10 14:30	99.0	99.9	100.5	100.2	<input type="checkbox"/>
2	Blank	10/26/10 14:34	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
3	Standard1	10/26/10 14:39	99.6	97.3	107.3	97.9	<input checked="" type="checkbox"/>
4	ICV	10/26/10 14:43	99.4	97.4	107.0	96.8	<input checked="" type="checkbox"/>
5	ICB	10/26/10 14:48	99.8	99.0	107.3	98.8	<input checked="" type="checkbox"/>
6	LLSTD1	10/26/10 14:52	101.2	99.4	106.2	99.1	<input checked="" type="checkbox"/>
7	LLSTD1	10/26/10 14:58	100.9	99.2	106.3	98.8	<input checked="" type="checkbox"/>
8	ICSA	10/26/10 15:02	93.4	90.7	89.9	84.5	<input checked="" type="checkbox"/>
9	ICSAB	10/26/10 15:06	94.1	91.7	90.2	84.3	<input checked="" type="checkbox"/>
10	Rinse	10/26/10 15:16	105.7	103.8	113.4	100.2	<input checked="" type="checkbox"/>
11	CCV 1	10/26/10 15:23	102.9	99.8	115.4	97.1	<input checked="" type="checkbox"/>
12	CCB 1	10/26/10 15:27	103.4	101.0	113.9	98.6	<input checked="" type="checkbox"/>
13	CCV 2	10/26/10 15:31	102.6	98.6	114.5	96.9	<input checked="" type="checkbox"/>
14	CCB 2	10/26/10 15:36	102.9	100.9	114.5	97.9	<input checked="" type="checkbox"/>
15	L8JJ7B	10/26/10 15:40	104.5	104.6	111.7	101.8	<input checked="" type="checkbox"/>
16	L8JJ7C	10/26/10 15:45	102.7	102.2	112.9	99.8	<input checked="" type="checkbox"/>
17	L8JJ7L	10/26/10 15:49	105.3	106.9	119.7	105.5	<input checked="" type="checkbox"/>
18	L779A	10/26/10 15:53	105.4	106.5	114.8	103.4	<input checked="" type="checkbox"/>
19	L779AP5	10/26/10 15:58	107.0	106.0	115.3	103.3	<input type="checkbox"/>
20	L779AZ	10/26/10 16:02	104.3	105.4	116.6	102.1	<input checked="" type="checkbox"/>
21	CCV 3	10/26/10 16:07	102.1	101.0	117.7	100.4	<input checked="" type="checkbox"/>
22	CCB 3	10/26/10 16:11	104.6	103.8	115.6	103.0	<input checked="" type="checkbox"/>
23	CCV 4	10/26/10 16:16	103.9	102.6	117.5	101.4	<input checked="" type="checkbox"/>
24	CCB 4	10/26/10 16:20	105.9	104.6	114.1	102.1	<input checked="" type="checkbox"/>
25	L822QB	10/26/10 16:24	106.7	107.7	112.0	105.6	<input checked="" type="checkbox"/>
26	L822QC	10/26/10 16:29	105.4	106.9	116.3	104.8	<input checked="" type="checkbox"/>
27	L822LL	10/26/10 16:33	104.8	105.1	114.6	103.1	<input checked="" type="checkbox"/>
28	L8T2G	10/26/10 16:38	105.5	106.4	112.6	104.1	<input checked="" type="checkbox"/>
29	L8T2GP5	10/26/10 16:42	106.1	104.8	114.8	102.9	<input type="checkbox"/>
30	L8T2GZ	10/26/10 16:46	103.8	105.0	116.3	102.6	<input checked="" type="checkbox"/>
31	L8T2J	10/26/10 16:51	105.0	105.7	113.0	103.8	<input checked="" type="checkbox"/>
32	L8T2K	10/26/10 16:55	106.1	106.3	114.8	104.6	<input checked="" type="checkbox"/>
33	CCV 5	10/26/10 17:00	104.3	101.8	117.2	99.9	<input checked="" type="checkbox"/>
34	CCB 5	10/26/10 17:04	105.5	104.1	119.3	101.2	<input checked="" type="checkbox"/>
35	CCV 6	10/26/10 17:08	104.8	102.8	117.9	101.1	<input checked="" type="checkbox"/>
36	CCB 6	10/26/10 17:13	105.4	104.1	117.0	102.3	<input checked="" type="checkbox"/>
37	L8T2L	10/26/10 17:17	105.0	106.2	116.9	104.3	<input checked="" type="checkbox"/>
38	L8T2M	10/26/10 17:22	105.5	105.9	115.9	104.7	<input checked="" type="checkbox"/>
39	L8T2N	10/26/10 17:26	106.4	107.1	119.0	105.9	<input checked="" type="checkbox"/>
40	L8T2P	10/26/10 17:31	105.0	105.7	116.4	103.1	<input checked="" type="checkbox"/>
41	L8T2Q	10/26/10 17:35	105.6	106.0	116.4	103.8	<input checked="" type="checkbox"/>
42	LLSTD1	10/26/10 17:39	106.3	104.6	118.7	102.0	<input checked="" type="checkbox"/>
43	LLSTD2	10/26/10 17:44	107.4	105.1	117.9	101.7	<input checked="" type="checkbox"/>
44	ICSA	10/26/10 17:48	98.4	94.6	91.9	86.9	<input checked="" type="checkbox"/>
45	ICSAB	10/26/10 17:53	97.9	94.9	92.7	87.3	<input checked="" type="checkbox"/>
46	CCV 7	10/26/10 18:01	107.4	104.4	117.6	100.9	<input checked="" type="checkbox"/>

TAL West Sac

INTERNAL STANDARD SUMMARY

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

M01 (M01)

Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
47	CCB 7	10/26/10 18:05	108.1	105.2	117.1	101.7	☑
48	CCV 8	10/26/10 18:10	106.8	103.9		101.1	☑
49	CCB 8	10/26/10 18:13	107.6	105.4		102.9	☑
50	CCV 9	10/26/10 18:17	106.6	103.7		101.0	☑
51	CCB 9	10/26/10 18:21	106.2	104.1		102.5	☑
52	L8GPLB	10/26/10 18:25	106.1	106.6		104.2	☑
53	L8GPLC	10/26/10 18:29	104.8	105.9		103.1	☑
54	L8GPLL	10/26/10 18:32	103.4	104.2		102.5	☑
55	L77L1	10/26/10 18:36	104.3	105.8		103.0	☑
56	L77L1P5	10/26/10 18:40	107.1	104.3		102.9	☐
57	L77L1Z	10/26/10 18:44	103.6	104.4		101.2	☑
58	L77L2	10/26/10 18:48	105.6	105.4		102.2	☑
59	L77L3	10/26/10 18:51	106.4	106.4		102.1	☑
60	L77L4	10/26/10 18:55	108.3	108.8		104.9	☑
61	L77L5	10/26/10 18:59	108.6	108.2		104.9	☑
62	CCV 10	10/26/10 19:03	106.5	104.0		101.5	☑
63	CCB 10	10/26/10 19:07	106.0	104.6		102.0	☑
64	CCV 11	10/26/10 19:10	105.4	102.3		100.4	☑
65	CCB 11	10/26/10 19:14	105.1	103.2		101.8	☑
66	L822LB	10/26/10 19:18	104.9	105.3		104.4	☑
67	L8LDL	10/26/10 19:22	105.7	105.3		104.1	☑
68	L8LDLP5	10/26/10 19:26	106.4	103.6		102.9	☐
69	L8LDLZ	10/26/10 19:29	102.9	104.3		102.9	☑
70	L8LDM	10/26/10 19:33	103.5	104.1		103.7	☑
71	L8LDN	10/26/10 19:37	105.4	105.6		103.0	☑
72	L8LDP	10/26/10 19:41	104.7	105.8		103.3	☑
73	L8LDQ	10/26/10 19:45	107.1	106.8		105.2	☑
74	CCV 12	10/26/10 19:49	105.7	103.3		101.4	☑
75	CCB 12	10/26/10 19:52	105.7	103.6		102.9	☑
76	CCV 13	10/26/10 19:56	104.5	101.6		100.5	☑
77	CCB 13	10/26/10 20:00	104.0	102.4		101.1	☑
78	L81FKB	10/26/10 20:04	103.3	105.9		106.3	☑
79	L81FKC	10/26/10 20:08	101.6	104.6		103.7	☑
80	L81FKL	10/26/10 20:12	102.3	103.8		104.3	☑
81	L76K8	10/26/10 20:15	101.7	105.2		107.0	☑
82	L76K8P5	10/26/10 20:19	103.6	102.9		103.4	☐
83	L76K8X	10/26/10 20:23	102.7	104.9		106.8	☑
84	L76K8Z	10/26/10 20:27	102.6	103.6		103.1	☑
85	CCV 14	10/26/10 20:30	102.1	99.5		99.4	☑
86	CCB 14	10/26/10 20:34	102.0	100.1		99.2	☑
87	CCV 15	10/26/10 20:38	101.6	99.0		98.9	☑
88	CCB 15	10/26/10 20:42	101.6	100.7		100.2	☑
89	L76LH	10/26/10 20:46	102.6	103.7		103.7	☑
90	L76LHX	10/26/10 20:49	103.5	104.4		105.4	☑
91	L76LN	10/26/10 20:53	103.4	105.1		107.0	☑
92	L76LT	10/26/10 20:57	103.1	104.5		105.2	☑

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 10/27/10 13:49:50

File ID: 101026A1

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
93	L76LX	10/26/10 21:01	104.1	105.1		106.0	<input checked="" type="checkbox"/>
94	L76L1	10/26/10 21:05	101.3	101.6		102.6	<input checked="" type="checkbox"/>
95	L76L2	10/26/10 21:08	102.7	102.9		104.9	<input checked="" type="checkbox"/>
96	L76L7	10/26/10 21:12	103.8	105.0		106.0	<input checked="" type="checkbox"/>
97	CCV 16	10/26/10 21:16	102.9	99.9		99.5	<input checked="" type="checkbox"/>
98	CCB 16	10/26/10 21:20	102.6	99.6		100.6	<input checked="" type="checkbox"/>
99	CCV 17	10/26/10 21:24	103.5				<input checked="" type="checkbox"/>
100	CCB 17	10/26/10 21:27	103.8				<input checked="" type="checkbox"/>
101	CCV 18	10/26/10 21:30	103.9				<input checked="" type="checkbox"/>
102	CCB 18	10/26/10 21:33	103.4				<input checked="" type="checkbox"/>
103	L84F1B	10/26/10 21:35	104.3				<input checked="" type="checkbox"/>
104	L84F1C	10/26/10 21:38	103.6				<input checked="" type="checkbox"/>
105	L84F1L	10/26/10 21:41	102.5				<input checked="" type="checkbox"/>
106	L8VHK	10/26/10 21:44	103.0				<input checked="" type="checkbox"/>
107	L8VHKP5	10/26/10 21:47	104.1				<input type="checkbox"/>
108	L8VHKZ	10/26/10 21:50	102.7				<input checked="" type="checkbox"/>
109	L8VHM	10/26/10 21:53	104.2				<input checked="" type="checkbox"/>
110	CCV 19	10/26/10 21:56	103.4				<input checked="" type="checkbox"/>
111	CCB 19	10/26/10 21:59	103.9				<input checked="" type="checkbox"/>
112	CCV 20	10/26/10 22:02	103.1				<input checked="" type="checkbox"/>
113	CCB 20	10/26/10 22:04	102.9				<input checked="" type="checkbox"/>
114	L8VHN	10/26/10 22:07	104.1				<input checked="" type="checkbox"/>
115	L8VHQ	10/26/10 22:10	104.3				<input checked="" type="checkbox"/>
116	L8VHT	10/26/10 22:13	105.0				<input checked="" type="checkbox"/>
117	L8VHW	10/26/10 22:16	104.0				<input checked="" type="checkbox"/>
118	L8VHX	10/26/10 22:19	104.1				<input checked="" type="checkbox"/>
119	L8VH0	10/26/10 22:22	104.2				<input checked="" type="checkbox"/>
120	L8VH2	10/26/10 22:25	105.4				<input checked="" type="checkbox"/>
121	CCV 21	10/26/10 22:28	103.8				<input checked="" type="checkbox"/>
122	CCB 21	10/26/10 22:31	103.7				<input checked="" type="checkbox"/>

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

M01

Reported: 10/27/10 13:52:03

Method: 6020	Instrument: M01	Batch: 101026A1		
Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101026A1, 4	10/26/2010 14:43:55	<input type="checkbox"/>
ICB	ICB	101026A1, 5	10/26/2010 14:48:21	<input type="checkbox"/>
ICSA	ICSA	101026A1, 8	10/26/2010 15:02:36	<input type="checkbox"/>
ICSAB	ICSAB	101026A1, 9	10/26/2010 15:06:59	<input type="checkbox"/>
CCV 1	CCV	101026A1, 11	10/26/2010 15:23:04	<input type="checkbox"/>
CCB 1	CCB	101026A1, 12	10/26/2010 15:27:31	<input type="checkbox"/>
CCV 2	CCV	101026A1, 13	10/26/2010 15:31:57	<input type="checkbox"/>
CCB 2	CCB	101026A1, 14	10/26/2010 15:36:24	<input type="checkbox"/>
CCV 3	CCV	101026A1, 21	10/26/2010 16:07:07	<input type="checkbox"/>
CCB 3	CCB	101026A1, 22	10/26/2010 16:11:34	<input type="checkbox"/>
CCV 4	CCV	101026A1, 23	10/26/2010 16:16:00	<input type="checkbox"/>
CCB 4	CCB	101026A1, 24	10/26/2010 16:20:26	<input type="checkbox"/>
CCV 5	CCV	101026A1, 33	10/26/2010 17:00:03	<input type="checkbox"/>
CCB 5	CCB	101026A1, 34	10/26/2010 17:04:29	<input type="checkbox"/>
CCV 6	CCV	101026A1, 35	10/26/2010 17:08:55	<input type="checkbox"/>
CCB 6	CCB	101026A1, 36	10/26/2010 17:13:21	<input type="checkbox"/>
ICSA	ICSA	101026A1, 44	10/26/2010 17:48:42	<input type="checkbox"/>
ICSAB	ICSAB	101026A1, 45	10/26/2010 17:53:05	<input type="checkbox"/>
CCV 7	CCV	101026A1, 46	10/26/2010 18:01:10	<input type="checkbox"/>
CCB 7	CCB	101026A1, 47	10/26/2010 18:05:36	<input type="checkbox"/>
CCV 8	CCV	101026A1, 48	10/26/2010 18:10:02	<input type="checkbox"/>
CCB 8	CCB	101026A1, 49	10/26/2010 18:13:52	<input type="checkbox"/>
CCV 9	CCV	101026A1, 50	10/26/2010 18:17:42	<input type="checkbox"/>
CCB 9	CCB	101026A1, 51	10/26/2010 18:21:32	<input type="checkbox"/>
CCV 10	CCV	101026A1, 62	10/26/2010 19:03:10	<input type="checkbox"/>
CCB 10	CCB	101026A1, 63	10/26/2010 19:07:00	<input type="checkbox"/>
CCV 11	CCV	101026A1, 64	10/26/2010 19:10:50	<input type="checkbox"/>
CCB 11	CCB	101026A1, 65	10/26/2010 19:14:40	<input type="checkbox"/>
CCV 12	CCV	101026A1, 74	10/26/2010 19:49:06	<input type="checkbox"/>
CCB 12	CCB	101026A1, 75	10/26/2010 19:52:55	<input type="checkbox"/>
CCV 13	CCV	101026A1, 76	10/26/2010 19:56:45	<input type="checkbox"/>
CCB 13	CCB	101026A1, 77	10/26/2010 20:00:35	<input type="checkbox"/>
CCV 14	CCV	101026A1, 85	10/26/2010 20:30:52	<input type="checkbox"/>
CCB 14	CCB	101026A1, 86	10/26/2010 20:34:42	<input type="checkbox"/>
CCV 15	CCV	101026A1, 87	10/26/2010 20:38:32	<input type="checkbox"/>
CCB 15	CCB	101026A1, 88	10/26/2010 20:42:22	<input type="checkbox"/>
CCV 16	CCV	101026A1, 97	10/26/2010 21:16:35	<input type="checkbox"/>
CCB 16	CCB	101026A1, 98	10/26/2010 21:20:25	<input type="checkbox"/>
CCV 17	CCV	101026A1, 99	10/26/2010 21:24:15	<input type="checkbox"/>
CCB 17	CCB	101026A1, 100	10/26/2010 21:27:10	<input type="checkbox"/>
CCV 18	CCV	101026A1, 101	10/26/2010 21:30:06	<input type="checkbox"/>
CCB 18	CCB	101026A1, 102	10/26/2010 21:33:01	<input type="checkbox"/>
CCV 19	CCV	101026A1, 110	10/26/2010 21:56:12	<input type="checkbox"/>
CCB 19	CCB	101026A1, 111	10/26/2010 21:59:07	<input type="checkbox"/>
CCV 20	CCV	101026A1, 112	10/26/2010 22:02:03	<input type="checkbox"/>
CCB 20	CCB	101026A1, 113	10/26/2010 22:04:58	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Method: 6020	Instrument: M01	Batch: 101026A1			
Sample ID	Type	File - Sequence	Analyzed Date	Q	
CCV 21	CCV	101026A1, 121	10/26/2010 22:28:17	<input type="checkbox"/>	
CCB 21	CCB	101026A1, 122	10/26/2010 22:31:12	<input type="checkbox"/>	

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: ICV (ICV)

Mult: 1.00

Diff: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 4 Method 6020_
 Acquired: 10/26/2010 14:43:55 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	41215	82.059	80.000	103	
7429-90-5	Aluminum	27	6551177	802.78	800.00	100	
7440-62-2	Vanadium	51	1123562	82.273	80.000	103	
7440-47-3	Chromium	52	1051912	83.613	80.000	105	
7439-89-6	Iron	57	347971	852.30	800.00	107	
7439-96-5	Manganese	55	1628273	82.195	80.000	103	
7440-48-4	Cobalt	59	1211976	85.501	80.000	107	
7440-02-0	Nickel	60	255859	83.413	80.000	104	
7440-50-8	Copper	65	259640	84.583	80.000	106	
7440-66-6	Zinc	68	98148	84.529	80.000	106	
7440-38-2	Arsenic	75	249314	81.224	80.000	102	
7782-49-2	Selenium	82	24750	84.163	80.000	105	
7440-22-4	Silver	107	459163	41.397	40.000	103	
7440-43-9	Cadmium	111	212881	82.859	80.000	104	
7440-36-0	Antimony	121	331272	38.658	40.000	96.6	
7440-39-3	Barium	135	186975	82.097	80.000	103	
7440-28-0	Thallium	205	879266	43.696	40.000	109	
7439-92-1	Lead	208	2307809	85.654	80.000	107	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	786179		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1350578		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1180020		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	796994		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: ICB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 5 Method 6020_
 Acquired: 10/26/2010 14:48:21 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	8	0.00675	1.0	0.078	0.0	
7429-90-5	Aluminum	27	141828	1.4474	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-17054	-0.13024	10.0	3.1	0.0	
7440-47-3	Chromium	52	26985	0.19780	2.0	0.92	0.0	
7439-89-6	Iron	57	12767	1.2096	50.0	17.0	0.0	
7439-96-5	Manganese	55	5022	0.01821	1.0	0.083	0.0	
7440-48-4	Cobalt	59	208	0.00861	1.0	0.057	0.0	
7440-02-0	Nickel	60	238	0.00618	2.0	0.098	0.0	
7440-50-8	Copper	65	253	0.01986				
7440-66-6	Zinc	68	1367	-0.00780	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15308	0.23445	2.0	0.50	0.0	
7782-49-2	Selenium	82	1547	0.03073	2.0	1.7	0.0	
7440-22-4	Silver	107	104	0.00580	1.0	0.030	0.0	
7440-43-9	Cadmium	111	43	0.00624	1.0	0.074	0.0	
7440-36-0	Antimony	121	3596	0.39069	2.0	0.036	0.0	
7440-39-3	Barium	135	94	0.01303	1.0	0.96	0.0	
7440-28-0	Thallium	205	2710	0.11175	1.0	0.34	0.0	
7439-92-1	Lead	208	567	0.01031	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	788274		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1354960		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1199124		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	813573		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: ICSA Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 8 Method 6020_
 Acquired: 10/26/2010 15:02:36 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	30	0.06332		*	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	74666770	89756	100000	89.8	<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	-10449	0.29290		*	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	51270	2.4502		*	
7439-89-6	Iron	57	35102602	94824	100000	94.8	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	123610	6.4255		*	
7440-48-4	Cobalt	59	24637	1.8442		*	
7440-02-0	Nickel	60	5722	1.9162		*	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	688	0.17635		*	
7440-66-6	Zinc	68	2581	1.2018		*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	16589	1.0659		*	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	1531	0.34911		*	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	1682	0.15937		*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	2700	1.1186		*	
7440-36-0	Antimony	121	2471	0.28662		*	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	5980	2.7931		*	
7440-28-0	Thallium	205	3999	0.20725		*	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	10780	0.44768		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	660778				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1268754				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1098624				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	696160				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: ICSAB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 #9 Method 6020_
 Acquired: 10/26/2010 15:06:59 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	41652	98.361	100.00	98.4	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	67685693	88220	100100	88.1	<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	1252193	96.728	100.00	96.7	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	1170335	98.690	100.00	98.7	<input checked="" type="checkbox"/>
7439-89-6	Iron	57	35551476	95382	100100	95.3	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	1870835	99.886	100.00	99.9	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	1361088	101.52	100.00	102	<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	282349	97.323	100.00	97.3	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	268721	92.550	100.00	92.6	<input checked="" type="checkbox"/>
7440-66-6	Zinc	68	100879	91.948	100.00	91.9	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	291059	101.42	100.00	101	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	29906	109.06	100.00	109	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	489642	46.878	50.000	93.8	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	240890	99.573	100.00	99.6	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	403408	49.982	50.000	100	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	219726	102.46	100.00	102	<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	851374	48.567	50.000	97.1	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	2213615	94.295	100.00	94.3	<input checked="" type="checkbox"/>

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	662820		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1277440		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1110993		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	694304		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 1 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 11 Method 6020_
 Acquired: 10/26/2010 15:23:04 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	52207	96.358	100.00	96.4	
7429-90-5	Aluminum	27	43869287	5283.0	5100.0	104	
7440-62-2	Vanadium	51	1495240	105.48	100.00	105	
7440-47-3	Chromium	52	1359319	104.90	100.00	105	
7439-89-6	Iron	57	2195355	5354.4	5100.0	105	
7439-96-5	Manganese	55	2153616	105.12	100.00	105	
7440-48-4	Cobalt	59	1534202	104.60	100.00	105	
7440-02-0	Nickel	60	331803	104.56	100.00	105	
7440-50-8	Copper	65	328575	103.45	100.00	103	
7440-66-6	Zinc	68	123084	102.69	100.00	103	
7440-38-2	Arsenic	75	321325	102.40	100.00	102	
7782-49-2	Selenium	82	30330	100.70	100.00	101	
7440-22-4	Silver	107	574346	50.519	50.000	101	
7440-43-9	Cadmium	111	264603	100.49	100.00	100	
7440-36-0	Antimony	121	437324	49.782	50.000	99.6	
7440-39-3	Barium	135	230395	98.704	100.00	98.7	
7440-28-0	Thallium	205	1011118	50.081	50.000	100	
7439-92-1	Lead	208	2716957	100.49	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	848042		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1397514		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1209256		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	799738		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 1

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 12 Method 6020_
 Acquired: 10/26/2010 15:27:31 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	10	0.00954	1.0	0.078	0.0	
7429-90-5	Aluminum	27	154353	2.3234	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-13534	0.15690	10.0	3.1	0.0	
7440-47-3	Chromium	52	29352	0.30531	2.0	0.92	0.0	
7439-89-6	Iron	57	14376	3.9890	50.0	17.0	0.0	
7439-96-5	Manganese	55	5315	0.02349	1.0	0.083	0.0	
7440-48-4	Cobalt	59	238	0.01013	1.0	0.057	0.0	
7440-02-0	Nickel	60	237	0.00320	2.0	0.098	0.0	
7440-50-8	Copper	65	283	0.02652				
7440-66-6	Zinc	68	1334	-0.07820	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16046	0.29329	2.0	0.50	0.0	
7782-49-2	Selenium	82	1578	-0.06119	2.0	1.7	0.0	
7440-22-4	Silver	107	112	0.00628	1.0	0.030	0.0	
7440-43-9	Cadmium	111	41	0.00528	1.0	0.074	0.0	
7440-36-0	Antimony	121	380	0.01949	2.0	0.036	0.0	
7440-39-3	Barium	135	89	0.01001	1.0	0.96	0.0	
7440-28-0	Thallium	205	8132	0.37671	1.0	0.34	0.0	
7439-92-1	Lead	208	583	0.01092	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	837155		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1404902		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1223904		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	811704		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

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

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 13 Method 6020_
 Acquired: 10/26/2010 15:31:57 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	51517	95.841	100.00	95.8	
7429-90-5	Aluminum	27	43529663	5255.9	5100.0	103	
7440-62-2	Vanadium	51	1482817	104.88	100.00	105	
7440-47-3	Chromium	52	1341358	103.76	100.00	104	
7439-89-6	Iron	57	2166530	5297.6	5100.0	104	
7439-96-5	Manganese	55	2101675	102.84	100.00	103	
7440-48-4	Cobalt	59	1507250	103.02	100.00	103	
7440-02-0	Nickel	60	324448	102.49	100.00	102	
7440-50-8	Copper	65	323976	102.27	100.00	102	
7440-66-6	Zinc	68	121406	101.54	100.00	102	
7440-38-2	Arsenic	75	318642	101.77	100.00	102	
7782-49-2	Selenium	82	29979	99.740	100.00	99.7	
7440-22-4	Silver	107	565682	50.398	50.000	101	
7440-43-9	Cadmium	111	260800	100.32	100.00	100	
7440-36-0	Antimony	121	433235	49.951	50.000	99.9	
7440-39-3	Barium	135	227084	98.532	100.00	98.5	
7440-28-0	Thallium	205	1009931	50.122	50.000	100	
7439-92-1	Lead	208	2713229	100.55	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	841465		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1394011		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1194003		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	798349		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 2

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 14 Method 6020_
 Acquired: 10/26/2010 15:36:24 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	12	0.01321	1.0	0.078	0.0	
7429-90-5	Aluminum	27	152647	2.2233	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-11581	0.28775	10.0	3.1	0.0	
7440-47-3	Chromium	52	29185	0.30531	2.0	0.92	0.0	
7439-89-6	Iron	57	14162	3.6634	50.0	17.0	0.0	
7439-96-5	Manganese	55	5318	0.02510	1.0	0.083	0.0	
7440-48-4	Cobalt	59	265	0.01206	1.0	0.057	0.0	
7440-02-0	Nickel	60	247	0.00675	2.0	0.098	0.0	
7440-50-8	Copper	65	277	0.02523				
7440-66-6	Zinc	68	1334	-0.07184	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15982	0.30235	2.0	0.50	0.0	
7782-49-2	Selenium	82	1611	0.08654	2.0	1.7	0.0	
7440-22-4	Silver	107	132	0.00803	1.0	0.030	0.0	
7440-43-9	Cadmium	111	43	0.00596	1.0	0.074	0.0	
7440-36-0	Antimony	121	313	0.01204	2.0	0.036	0.0	
7440-39-3	Barium	135	96	0.01289	1.0	0.96	0.0	
7440-28-0	Thallium	205	8838	0.41437	1.0	0.34	0.0	
7439-92-1	Lead	208	630	0.01280	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	841247		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1396929		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1222409		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	806100		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 3 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 21 Method 6020_
 Acquired: 10/26/2010 16:07:07 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	53222	96.310	100.00	96.3	
7429-90-5	Aluminum	27	44271910	5375.6	5100.0	105	
7440-62-2	Vanadium	51	1498873	106.59	100.00	107	
7440-47-3	Chromium	52	1360902	105.90	100.00	106	
7439-89-6	Iron	57	2201742	5414.4	5100.0	106	
7439-96-5	Manganese	55	2147016	105.65	100.00	106	
7440-48-4	Cobalt	59	1524075	104.76	100.00	105	
7440-02-0	Nickel	60	327198	103.94	100.00	104	
7440-50-8	Copper	65	324421	102.98	100.00	103	
7440-66-6	Zinc	68	122561	103.09	100.00	103	
7440-38-2	Arsenic	75	319003	102.49	100.00	102	
7782-49-2	Selenium	82	30464	102.04	100.00	102	
7440-22-4	Silver	107	579108	50.347	50.000	101	
7440-43-9	Cadmium	111	267696	100.48	100.00	100	
7440-36-0	Antimony	121	443155	49.860	50.000	99.7	
7440-39-3	Barium	135	233563	98.899	100.00	98.9	
7440-28-0	Thallium	205	1046189	50.139	50.000	100	
7439-92-1	Lead	208	2810615	100.58	100.00	101	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	865011				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1386167				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1223445				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	826491				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 3

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 22 Method 6020_
 Acquired: 10/26/2010 16:11:34 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	21	0.02958	1.0	0.078	0.0	
7429-90-5	Aluminum	27	161621	2.9809	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-14084	0.12756	10.0	3.1	0.0	
7440-47-3	Chromium	52	29288	0.27490	2.0	0.92	0.0	
7439-89-6	Iron	57	14384	3.6170	50.0	17.0	0.0	
7439-96-5	Manganese	55	5853	0.04646	1.0	0.083	0.0	
7440-48-4	Cobalt	59	588	0.03343	1.0	0.057	0.0	
7440-02-0	Nickel	60	334	0.03258	2.0	0.098	0.0	
7440-50-8	Copper	65	416	0.06680				
7440-66-6	Zinc	68	1433	-0.00889	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15700	0.12001	2.0	0.50	0.0	
7782-49-2	Selenium	82	1609	-0.01361	2.0	1.7	0.0	
7440-22-4	Silver	107	282	0.02044	1.0	0.030	0.0	
7440-43-9	Cadmium	111	99	0.02588	1.0	0.074	0.0	
7440-36-0	Antimony	121	568	0.03888	2.0	0.036	0.0	
7440-39-3	Barium	135	145	0.03191	1.0	0.96	0.0	
7440-28-0	Thallium	205	13163	0.59395	1.0	0.34	0.0	
7439-92-1	Lead	208	1399	0.03842	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	849613		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1420760		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1257626		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	848518		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M01

Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 4 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01

Channel 261

File: 101026A1 # 23

Method 6020_

Acquired: 10/26/2010 16:16:00

M01

Calibrated: 10/26/2010 14:34:59

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	52845	95.821	100.00	95.8	
7429-90-5	Aluminum	27	44336927	5285.9	5100.0	104	
7440-62-2	Vanadium	51	1500082	104.77	100.00	105	
7440-47-3	Chromium	52	1365579	104.32	100.00	104	
7439-89-6	Iron	57	2199120	5310.0	5100.0	104	
7439-96-5	Manganese	55	2136644	103.24	100.00	103	
7440-48-4	Cobalt	59	1520118	102.60	100.00	103	
7440-02-0	Nickel	60	330301	103.03	100.00	103	
7440-50-8	Copper	65	325730	101.52	100.00	102	
7440-66-6	Zinc	68	122397	101.07	100.00	101	
7440-38-2	Arsenic	75	320604	101.08	100.00	101	
7782-49-2	Selenium	82	30765	101.14	100.00	101	
7440-22-4	Silver	107	578884	49.547	50.000	99.1	
7440-43-9	Cadmium	111	267991	99.036	100.00	99.0	
7440-36-0	Antimony	121	443321	49.107	50.000	98.2	
7440-39-3	Barium	135	232978	97.127	100.00	97.1	
7440-28-0	Thallium	205	1053513	49.977	50.000	100	
7439-92-1	Lead	208	2795334	99.022	100.00	99.0	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	863182				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1411673				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1242750				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	834982				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 4

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 24 Method 6020_
 Acquired: 10/26/2010 16:20:26 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	21	0.03067	1.0	0.078	0.0	
7429-90-5	Aluminum	27	165646	3.2173	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-13844	0.15764	10.0	3.1	0.0	
7440-47-3	Chromium	52	28424	0.18112	2.0	0.92	0.0	
7439-89-6	Iron	57	14248	2.8677	50.0	17.0	0.0	
7439-96-5	Manganese	55	5789	0.04001	1.0	0.083	0.0	
7440-48-4	Cobalt	59	563	0.03124	1.0	0.057	0.0	
7440-02-0	Nickel	60	348	0.03556	2.0	0.098	0.0	
7440-50-8	Copper	65	375	0.05268				
7440-66-6	Zinc	68	1379	-0.06697	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15360	-0.05386	2.0	0.50	0.0	
7782-49-2	Selenium	82	1628	-0.02002	2.0	1.7	0.0	
7440-22-4	Silver	107	294	0.02120	1.0	0.030	0.0	
7440-43-9	Cadmium	111	107	0.02850	1.0	0.074	0.0	
7440-36-0	Antimony	121	454	0.02610	2.0	0.036	0.0	
7440-39-3	Barium	135	144	0.03089	1.0	0.96	0.0	
7440-28-0	Thallium	205	14278	0.65244	1.0	0.34	0.0	
7439-92-1	Lead	208	1222	0.03265	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	838361		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1438309		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1267195		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	841194		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 5 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 33 Method 6020_
 Acquired: 10/26/2010 17:00:03 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	53803	97.818	100.00	97.8	
7429-90-5	Aluminum	27	45046463	5352.0	5100.0	105	
7440-62-2	Vanadium	51	1531483	106.57	100.00	107	
7440-47-3	Chromium	52	1385073	105.46	100.00	105	
7439-89-6	Iron	57	2241516	5394.1	5100.0	106	
7439-96-5	Manganese	55	2200971	105.99	100.00	106	
7440-48-4	Cobalt	59	1559266	104.88	100.00	105	
7440-02-0	Nickel	60	335660	104.34	100.00	104	
7440-50-8	Copper	65	332771	103.36	100.00	103	
7440-66-6	Zinc	68	124787	102.70	100.00	103	
7440-38-2	Arsenic	75	326313	102.59	100.00	103	
7782-49-2	Selenium	82	30974	101.49	100.00	101	
7440-22-4	Silver	107	587530	50.664	50.000	101	
7440-43-9	Cadmium	111	270381	100.66	100.00	101	
7440-36-0	Antimony	121	450377	50.260	50.000	101	
7440-39-3	Barium	135	234201	98.355	100.00	98.4	
7440-28-0	Thallium	205	1044020	50.286	50.000	101	
7439-92-1	Lead	208	2765711	99.485	100.00	99.5	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	861269		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1416859		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1233796		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	822469		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

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

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 34 Method 6020_
 Acquired: 10/26/2010 17:04:29 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	11	0.01054	1.0	0.078	0.0	
7429-90-5	Aluminum	27	160013	2.6337	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-14719	0.09406	10.0	3.1	0.0	
7440-47-3	Chromium	52	29564	0.27739	2.0	0.92	0.0	
7439-89-6	Iron	57	14598	3.8445	50.0	17.0	0.0	
7439-96-5	Manganese	55	5570	0.03067	1.0	0.083	0.0	
7440-48-4	Cobalt	59	318	0.01512	1.0	0.057	0.0	
7440-02-0	Nickel	60	272	0.01241	2.0	0.098	0.0	
7440-50-8	Copper	65	291	0.02722				
7440-66-6	Zinc	68	1388	-0.05546	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15745	0.09234	2.0	0.50	0.0	
7782-49-2	Selenium	82	1580	-0.16178	2.0	1.7	0.0	
7440-22-4	Silver	107	175	0.01137	1.0	0.030	0.0	
7440-43-9	Cadmium	111	49	0.00758	1.0	0.074	0.0	
7440-36-0	Antimony	121	338	0.01362	2.0	0.036	0.0	
7440-39-3	Barium	135	102	0.01421	1.0	0.96	0.0	
7440-28-0	Thallium	205	7548	0.33762	1.0	0.34	0.0	
7439-92-1	Lead	208	732	0.01561	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	876763		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1432514		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1260981		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	833595		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 6 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 35 Method 6020_
 Acquired: 10/26/2010 17:08:55 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	53123	95.986	100.00	96.0	
7429-90-5	Aluminum	27	44898256	5309.2	5100.0	104	
7440-62-2	Vanadium	51	1512615	104.78	100.00	105	
7440-47-3	Chromium	52	1383274	104.81	100.00	105	
7439-89-6	Iron	57	2219855	5316.1	5100.0	104	
7439-96-5	Manganese	55	2173085	104.14	100.00	104	
7440-48-4	Cobalt	59	1545782	103.48	100.00	103	
7440-02-0	Nickel	60	333005	103.03	100.00	103	
7440-50-8	Copper	65	332339	102.74	100.00	103	
7440-66-6	Zinc	68	124367	101.87	100.00	102	
7440-38-2	Arsenic	75	323305	101.10	100.00	101	
7782-49-2	Selenium	82	30711	100.08	100.00	100	
7440-22-4	Silver	107	581269	49.657	50.000	99.3	
7440-43-9	Cadmium	111	268325	98.967	100.00	99.0	
7440-36-0	Antimony	121	448461	49.580	50.000	99.2	
7440-39-3	Barium	135	233238	97.045	100.00	97.0	
7440-28-0	Thallium	205	1036449	49.302	50.000	98.6	
7439-92-1	Lead	208	2755148	97.865	100.00	97.9	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	866247		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1423304		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1245088		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	832648		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 6

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 36 Method 6020_
 Acquired: 10/26/2010 17:13:21 M01
 Calibrated: 10/26/2010 14:34:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	18	0.02411	1.0	0.078	0.0	
7429-90-5	Aluminum	27	166950	3.4624	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-8153	0.54016	10.0	3.1	0.0	
7440-47-3	Chromium	52	28286	0.18077	2.0	0.92	0.0	
7439-89-6	Iron	57	14397	3.3849	50.0	17.0	0.0	
7439-96-5	Manganese	55	5650	0.03467	1.0	0.083	0.0	
7440-48-4	Cobalt	59	528	0.02913	1.0	0.057	0.0	
7440-02-0	Nickel	60	331	0.03058	2.0	0.098	0.0	
7440-50-8	Copper	65	354	0.04658				
7440-66-6	Zinc	68	1400	-0.04498	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15637	0.06010	2.0	0.50	0.0	
7782-49-2	Selenium	82	1609	-0.05882	2.0	1.7	0.0	
7440-22-4	Silver	107	307	0.02245	1.0	0.030	0.0	
7440-43-9	Cadmium	111	101	0.02673	1.0	0.074	0.0	
7440-36-0	Antimony	121	373	0.01748	2.0	0.036	0.0	
7440-39-3	Barium	135	123	0.02276	1.0	0.96	0.0	
7440-28-0	Thallium	205	13294	0.60410	1.0	0.34	0.0	
7439-92-1	Lead	208	1221	0.03249	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	859778		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1431538		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1260688		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	842393		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: ICSA

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 44 Method 6020_
 Acquired: 10/26/2010 17:48:42 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	36	0.07557		*	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	18648323	90808	100000	90.8	<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	-15157	-0.00938		*	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	53920	2.4457		*	
7439-89-6	Iron	57	37604776	96486	100000	96.5	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	131688	6.5048		*	
7440-48-4	Cobalt	59	26443	1.8802		*	
7440-02-0	Nickel	60	6479	2.0651		*	
7440-50-8	Copper	65	-155	-0.11348		*	
7440-66-6	Zinc	68	2598	1.0963		*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	18254	1.3409		*	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	1698	0.66493		*	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	1742	0.15814		*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	2485	0.98478		*	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	2233	0.24496		*	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	6141	2.7475		*	
7440-28-0	Thallium	205	4153	0.20949		*	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	10800	0.43587		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	675569				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1335815				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1146680				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	715917				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: ICSAB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 45 Method 6020_
 Acquired: 10/26/2010 17:53:05 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	42199	96.967	100.00	97.0	<input checked="" type="checkbox"/>
7429-90-5	Aluminum	27	11005363	90245	100100	90.2	<input checked="" type="checkbox"/>
7440-62-2	Vanadium	51	1328407	98.553	100.00	98.6	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	1238728	100.38	100.00	100	<input checked="" type="checkbox"/>
7439-89-6	Iron	57	37593567	96892	100100	96.8	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	1975781	101.34	100.00	101	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	1375241	98.533	100.00	98.5	<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	296432	98.156	100.00	98.2	<input checked="" type="checkbox"/>
7440-50-8	Copper	65	279250	92.391	100.00	92.4	<input checked="" type="checkbox"/>
7440-66-6	Zinc	68	104660	91.635	100.00	91.6	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	302646	101.30	100.00	101	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	31024	108.66	100.00	109	<input checked="" type="checkbox"/>
7440-22-4	Silver	107	507777	46.958	50.000	93.9	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	247501	98.821	100.00	98.8	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	411940	49.300	50.000	98.6	<input checked="" type="checkbox"/>
7440-39-3	Barium	135	223645	100.73	100.00	101	<input checked="" type="checkbox"/>
7440-28-0	Thallium	205	866174	47.703	50.000	95.4	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	2249552	92.513	100.00	92.5	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	681203				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1329812				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1150169				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	719165				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 7 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 46 Method 6020_
 Acquired: 10/26/2010 18:01:10 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	52738	95.518	100.00	95.5	
7429-90-5	Aluminum	27	45445451	5241.0	5100.0	103	
7440-62-2	Vanadium	51	1573749	106.30	100.00	106	
7440-47-3	Chromium	52	1410513	104.22	100.00	104	
7439-89-6	Iron	57	2308932	5393.3	5100.0	106	
7439-96-5	Manganese	55	2246169	104.99	100.00	105	
7440-48-4	Cobalt	59	1614512	105.41	100.00	105	
7440-02-0	Nickel	60	348570	105.19	100.00	105	
7440-50-8	Copper	65	344609	103.92	100.00	104	
7440-66-6	Zinc	68	127098	101.54	100.00	102	
7440-38-2	Arsenic	75	334078	101.93	100.00	102	
7782-49-2	Selenium	82	31642	100.61	100.00	101	
7440-22-4	Silver	107	597277	50.229	50.000	100	
7440-43-9	Cadmium	111	274819	99.785	100.00	99.8	
7440-36-0	Antimony	121	452636	49.264	50.000	98.5	
7440-39-3	Barium	135	236265	96.775	100.00	96.8	
7440-28-0	Thallium	205	1030706	49.106	50.000	98.2	
7439-92-1	Lead	208	2746421	97.702	100.00	97.7	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	864142		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1459271		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1264766		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	831379		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

BLANK REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCB 7 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 47 Method 6020_
 Acquired: 10/26/2010 18:05:36 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	8	0.00605	1.0	0.078	0.0	
7429-90-5	Aluminum	27	101649	-4.5383	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-15478	0.06940	10.0	3.1	0.0	
7440-47-3	Chromium	52	30353	0.28087	2.0	0.92	0.0	
7439-89-6	Iron	57	15502	5.0977	50.0	17.0	0.0	
7439-96-5	Manganese	55	4556	-0.02305	1.0	0.083	0.0	
7440-48-4	Cobalt	59	289	0.01272	1.0	0.057	0.0	
7440-02-0	Nickel	60	250	0.00377	2.0	0.098	0.0	
7440-50-8	Copper	65	285	0.02327				
7440-66-6	Zinc	68	1361	-0.10467	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16822	0.30922	2.0	0.50	0.0	
7782-49-2	Selenium	82	1637	-0.10195	2.0	1.7	0.0	
7440-22-4	Silver	107	165	0.01034	1.0	0.030	0.0	
7440-43-9	Cadmium	111	42	0.00501	1.0	0.074	0.0	
7440-36-0	Antimony	121	507	0.03154	2.0	0.036	0.0	
7440-39-3	Barium	135	101	0.01311	1.0	0.96	0.0	
7440-28-0	Thallium	205	7982	0.35767	1.0	0.34	0.0	
7439-92-1	Lead	208	668	0.01325	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	860643					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1468432					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1274214					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	837288					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit
 Sample: CCV 8 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 48 Method 6020_
 Acquired: 10/26/2010 18:10:02 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1379329	102.53	100.00	103	
7439-89-6	Iron	57	2251442	5290.9	5100.0	104	
7439-96-5	Manganese	55	2175499	102.30	100.00	102	
7440-02-0	Nickel	60	337051	102.33	100.00	102	
7440-50-8	Copper	65	334418	101.45	100.00	101	
7440-66-6	Zinc	68	125077	100.53	100.00	101	
7440-38-2	Arsenic	75	329988	101.26	100.00	101	
7440-43-9	Cadmium	111	270692	98.746	100.00	98.7	
7439-92-1	Lead	208	2757612	97.940	100.00	97.9	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1450696		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1259128		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	832954		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 8

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 49 Method 6020_
 Acquired: 10/26/2010 18:13:52 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	29370	0.21963	2.0	0.92	0.0	
7439-89-6	Iron	57	15073	4.2894	50.0	17.0	0.0	
7439-96-5	Manganese	55	4422	-0.02814	1.0	0.083	0.0	
7440-02-0	Nickel	60	256	0.00612	2.0	0.098	0.0	
7440-50-8	Copper	65	284	0.02331				
7440-66-6	Zinc	68	1324	-0.12907	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16014	0.07783	2.0	0.50	0.0	
7440-43-9	Cadmium	111	48	0.00717	1.0	0.074	0.0	
7439-92-1	Lead	208	702	0.01417	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1460840					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1276775					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	847530					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 9 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 50 Method 6020_
 Acquired: 10/26/2010 18:17:42 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1369277	101.93	100.00	102	
7439-89-6	Iron	57	2232239	5254.2	5100.0	103	
7439-96-5	Manganese	55	2171719	102.30	100.00	102	
7440-02-0	Nickel	60	334382	101.69	100.00	102	
7440-50-8	Copper	65	332283	100.97	100.00	101	
7440-66-6	Zinc	68	123853	99.693	100.00	99.7	
7440-38-2	Arsenic	75	328227	100.87	100.00	101	
7440-43-9	Cadmium	111	269618	98.560	100.00	98.6	
7439-92-1	Lead	208	2756108	98.031	100.00	98.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1447981		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1256289		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	831532		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 9

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 51 Method 6020_
 Acquired: 10/26/2010 18:21:32 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	29514	0.25797	2.0	0.92	0.0	
7439-89-6	Iron	57	14713	3.8777	50.0	17.0	0.0	
7439-96-5	Manganese	55	4347	-0.02909	1.0	0.083	0.0	
7440-02-0	Nickel	60	237	0.00137	2.0	0.098	0.0	
7440-50-8	Copper	65	278	0.02278				
7440-66-6	Zinc	68	1344	-0.09908	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16177	0.19705	2.0	0.50	0.0	
7440-43-9	Cadmium	111	50	0.00787	1.0	0.074	0.0	
7439-92-1	Lead	208	693	0.01393	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1442438					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1261489					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	843779					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 10 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 62 Method 6020_
 Acquired: 10/26/2010 19:03:10 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1383595	103.14	100.00	103	
7439-89-6	Iron	57	2249304	5300.8	5100.0	104	
7439-96-5	Manganese	55	2180085	102.81	100.00	103	
7440-02-0	Nickel	60	334078	101.71	100.00	102	
7440-50-8	Copper	65	332511	101.15	100.00	101	
7440-66-6	Zinc	68	124085	99.997	100.00	100	
7440-38-2	Arsenic	75	327765	100.84	100.00	101	
7440-43-9	Cadmium	111	270829	98.752	100.00	98.8	
7439-92-1	Lead	208	2779980	98.329	100.00	98.3	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1446364				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1259430				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	836191				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M01

Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 10

Mult: 1.00

Dilf: 1.00

1.00

Divs: 1.000

Instrument: ICPMS M01

Channel 261

File: 101026A1 # 63

Method 6020_

Acquired: 10/26/2010 19:07:00

M01

Calibrated: 10/26/2010 17:39:56

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	30083	0.30544	2.0	0.92	0.0	
7439-89-6	Iron	57	14379	3.1429	50.0	17.0	0.0	
7439-96-5	Manganese	55	4393	-0.02657	1.0	0.083	0.0	
7440-02-0	Nickel	60	237	0.00132	2.0	0.098	0.0	
7440-50-8	Copper	65	271	0.02067				
7440-66-6	Zinc	68	1322	-0.11573	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15555	0.00541	2.0	0.50	0.0	
7440-43-9	Cadmium	111	51	0.00812	1.0	0.074	0.0	
7439-92-1	Lead	208	739	0.01564	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1439756					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1266745					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	840414					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 11 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 64 Method 6020_
 Acquired: 10/26/2010 19:10:50 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1368463	103.13	100.00	103	
7439-89-6	Iron	57	2211693	5268.6	5100.0	103	
7439-96-5	Manganese	55	2150169	102.51	100.00	103	
7440-02-0	Nickel	60	329007	101.26	100.00	101	
7440-50-8	Copper	65	327111	100.59	100.00	101	
7440-66-6	Zinc	68	122248	99.582	100.00	99.6	
7440-38-2	Arsenic	75	321440	99.932	100.00	99.9	
7440-43-9	Cadmium	111	266128	98.628	100.00	98.6	
7439-92-1	Lead	208	2758247	98.613	100.00	98.6	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1430855		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1239337		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	827253		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCB 11 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 65 Method 6020_
 Acquired: 10/26/2010 19:14:40 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	29251	0.26031	2.0	0.92	0.0	
7439-89-6	Iron	57	14277	3.1834	50.0	17.0	0.0	
7439-96-5	Manganese	55	4308	-0.02892	1.0	0.083	0.0	
7440-02-0	Nickel	60	241	0.00325	2.0	0.098	0.0	
7440-50-8	Copper	65	298	0.02950				
7440-66-6	Zinc	68	1397	-0.04383	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15643	0.07541	2.0	0.50	0.0	
7440-43-9	Cadmium	111	52	0.00886	1.0	0.074	0.0	
7439-92-1	Lead	208	723	0.01515	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1428116					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1250847					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	838399					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 12 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 74 Method 6020_
 Acquired: 10/26/2010 19:49:06 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1387143	104.23	100.00	104	
7439-89-6	Iron	57	2230203	5296.5	5100.0	104	
7439-96-5	Manganese	55	2177279	103.48	100.00	103	
7440-02-0	Nickel	60	332688	102.07	100.00	102	
7440-50-8	Copper	65	332149	101.83	100.00	102	
7440-66-6	Zinc	68	123519	100.32	100.00	100	
7440-38-2	Arsenic	75	322870	100.08	100.00	100	
7440-43-9	Cadmium	111	268061	98.337	100.00	98.3	
7439-92-1	Lead	208	2766260	97.977	100.00	98.0	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1435147				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1251869				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	835050				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCB 12 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 75 Method 6020_
 Acquired: 10/26/2010 19:52:55 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	30094	0.31432	2.0	0.92	0.0	
7439-89-6	Iron	57	14299	3.0694	50.0	17.0	0.0	
7439-96-5	Manganese	55	4474	-0.02196	1.0	0.083	0.0	
7440-02-0	Nickel	60	224	-0.00221	2.0	0.098	0.0	
7440-50-8	Copper	65	271	0.02100				
7440-66-6	Zinc	68	1301	-0.12787	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15069	-0.13701	2.0	0.50	0.0	
7440-43-9	Cadmium	111	58	0.01115	1.0	0.074	0.0	
7439-92-1	Lead	208	820	0.01828	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1435293					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1255044					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	847705					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 13 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 76 Method 6020_
 Acquired: 10/26/2010 19:56:45 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1370129	104.16	100.00	104	
7439-89-6	Iron	57	2190676	5263.1	5100.0	103	
7439-96-5	Manganese	55	2132164	102.52	100.00	103	
7440-02-0	Nickel	60	324799	100.82	100.00	101	
7440-50-8	Copper	65	325993	101.10	100.00	101	
7440-66-6	Zinc	68	121507	99.830	100.00	99.8	
7440-38-2	Arsenic	75	319403	100.16	100.00	100	
7440-43-9	Cadmium	111	262548	97.996	100.00	98.0	
7439-92-1	Lead	208	2758982	98.629	100.00	98.6	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1418671		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1230347		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	827372		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 13

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 77 Method 6020_
 Acquired: 10/26/2010 20:00:35 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	29159	0.27723	2.0	0.92	0.0	
7439-89-6	Iron	57	13920	2.6800	50.0	17.0	0.0	
7439-96-5	Manganese	55	4254	-0.02933	1.0	0.083	0.0	
7440-02-0	Nickel	60	225	-0.00087	2.0	0.098	0.0	
7440-50-8	Copper	65	295	0.02981				
7440-66-6	Zinc	68	1317	-0.09916	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14858	-0.12953	2.0	0.50	0.0	
7440-43-9	Cadmium	111	53	0.00928	1.0	0.074	0.0	
7439-92-1	Lead	208	766	0.01683	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1412917		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1240205		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	832816		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 14 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 85 Method 6020_
 Acquired: 10/26/2010 20:30:52 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1347885	104.86	100.00	105	
7439-89-6	Iron	57	2160646	5312.2	5100.0	104	
7439-96-5	Manganese	55	2113804	104.00	100.00	104	
7440-02-0	Nickel	60	320300	101.73	100.00	102	
7440-50-8	Copper	65	320027	101.57	100.00	102	
7440-66-6	Zinc	68	119631	100.58	100.00	101	
7440-38-2	Arsenic	75	311510	99.947	100.00	99.9	
7440-43-9	Cadmium	111	258323	98.432	100.00	98.4	
7439-92-1	Lead	208	2762200	99.805	100.00	99.8	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1386378				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1205199				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	818551				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 14

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 86 Method 6020_
 Acquired: 10/26/2010 20:34:42 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	27509	0.19101	2.0	0.92	0.0	
7439-89-6	Iron	57	13592	2.5399	50.0	17.0	0.0	
7439-96-5	Manganese	55	4275	-0.02422	1.0	0.083	0.0	
7440-02-0	Nickel	60	245	0.00690	2.0	0.098	0.0	
7440-50-8	Copper	65	281	0.02694				
7440-66-6	Zinc	68	1292	-0.09829	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14747	-0.07062	2.0	0.50	0.0	
7440-43-9	Cadmium	111	60	0.01267	1.0	0.074	0.0	
7439-92-1	Lead	208	895	0.02203	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1385651					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1213270					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	816832					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 15 (CCV)

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 87 Method 6020_
 Acquired: 10/26/2010 20:38:32 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1321147	103.26	100.00	103	
7439-89-6	Iron	57	2111805	5217.6	5100.0	102	
7439-96-5	Manganese	55	2064661	102.09	100.00	102	
7440-02-0	Nickel	60	314357	100.35	100.00	100	
7440-50-8	Copper	65	315512	100.63	100.00	101	
7440-66-6	Zinc	68	118805	100.38	100.00	100	
7440-38-2	Arsenic	75	309034	99.641	100.00	99.6	
7440-43-9	Cadmium	111	256351	98.132	100.00	98.1	
7439-92-1	Lead	208	2718144	98.680	100.00	98.7	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1379478		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1199662		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	814725		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 15

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 88 Method 6020_
 Acquired: 10/26/2010 20:42:22 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	27315	0.18468	2.0	0.92	0.0	
7439-89-6	Iron	57	13447	2.3178	50.0	17.0	0.0	
7439-96-5	Manganese	55	4303	-0.02195	1.0	0.083	0.0	
7440-02-0	Nickel	60	217	-0.00187	2.0	0.098	0.0	
7440-50-8	Copper	65	287	0.02947				
7440-66-6	Zinc	68	1335	-0.05732	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15114	0.07499	2.0	0.50	0.0	
7440-43-9	Cadmium	111	66	0.01443	1.0	0.074	0.0	
7439-92-1	Lead	208	851	-0.02012	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1379843		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1220382		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	825067		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 16 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 97 Method 6020_
 Acquired: 10/26/2010 21:16:35 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	Chromium	52	1351739	104.27	100.00	104	
7439-89-6	Iron	57	2152170	5247.1	5100.0	103	
7439-96-5	Manganese	55	2117930	103.34	100.00	103	
7440-02-0	Nickel	60	321932	101.41	100.00	101	
7440-50-8	Copper	65	321186	101.09	100.00	101	
7440-66-6	Zinc	68	120128	100.16	100.00	100	
7440-38-2	Arsenic	75	310761	98.819	100.00	98.8	
7440-43-9	Cadmium	111	257946	97.884	100.00	97.9	
7439-92-1	Lead	208	2748328	99.168	100.00	99.2	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1398034				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1210156				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	819703				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 16

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 98 Method 6020_
 Acquired: 10/26/2010 21:20:25 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	Chromium	52	27222	0.15550	2.0	0.92	0.0	
7439-89-6	Iron	57	13344	1.7246	50.0	17.0	0.0	
7439-96-5	Manganese	55	4252	-0.02660	1.0	0.083	0.0	
7440-02-0	Nickel	60	222	-0.00103	2.0	0.098	0.0	
7440-50-8	Copper	65	312	0.03645				
7440-66-6	Zinc	68	1274	-0.11982	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14189	-0.28755	2.0	0.50	0.0	
7440-43-9	Cadmium	111	61	0.01299	1.0	0.074	0.0	
7439-92-1	Lead	208	845	0.01983	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1394055					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1206604					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	828432					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 17 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 99 Method 6020_
 Acquired: 10/26/2010 21:24:15 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	Manganese	55	2237148	108.53	100.00	109	
7440-38-2	Arsenic	75	311527	98.473	100.00	98.5	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1406195				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M01

Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 17

Mult: 1.00

Diif: 1.00

Divs: 1.000

Instrument: ICPMS M01

Channel 261

File: 101026A1 # 100

Method 6020_

Acquired: 10/26/2010 21:27:10

M01

Calibrated: 10/26/2010 17:39:56

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	Manganese	55	4632	-0.01047	1.0	0.083	0.0	
7440-38-2	Arsenic	75	14658	-0.18340	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1409300					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 18 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 101	Method 6020_
Acquired: 10/26/2010 21:30:06	M01
Calibrated: 10/26/2010 17:39:56	Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	Manganese	55	2259272	109.21	100.00	109	
7440-38-2	Arsenic	75	314378	99.047	100.00	99.0	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1411275				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 18

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 102	Method 6020_
Acquired: 10/26/2010 21:33:01	M01
Calibrated: 10/26/2010 17:39:56	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	Manganese	55	4717	-0.00562	1.0	0.083	0.0	
7440-38-2	Arsenic	75	15093	-0.02307	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1404724					<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 19 (CCV)

Mult: 1.00

Diff: 1.00

Divs: 1.000

Units: ug/L

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 110 Method 6020_
 Acquired: 10/26/2010 21:56:12 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	Manganese	55	2236499	108.59	100.00	109	
7440-38-2	Arsenic	75	312652	98.931	100.00	98.9	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1405032				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCB 19 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 111 Method 6020_
 Acquired: 10/26/2010 21:59:07 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	Manganese	55	4829	-0.00113	1.0	0.083	0.0	
7440-38-2	Arsenic	75	14752	-0.15764	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1410755					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals) Source: MetEdit

Sample: CCV 20 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 112	Method 6020_
Acquired: 10/26/2010 22:02:03	M01
Calibrated: 10/26/2010 17:39:56	Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	Manganese	55	2238294	109.09	100.00	109	
7440-38-2	Arsenic	75	312178	99.170	100.00	99.2	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1399733				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 20

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 113 Method 6020_
 Acquired: 10/26/2010 22:04:58 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	Manganese	55	4670	-0.00678	1.0	0.083	0.0	
7440-38-2	Arsenic	75	15374	0.09463	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72	1398018					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 21 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 121	Method 6020_
Acquired: 10/26/2010 22:28:17	M01
Calibrated: 10/26/2010 17:39:56	Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	Manganese	55	2260479	109.36	100.00	109	
7440-38-2	Arsenic	75	316485	99.829	100.00	99.8	
CASN	ISTD Name	M/S	Area	Amount			Q
7440-56-4	Germanium	72	1410121				<input checked="" type="checkbox"/>

Reviewed by:	Date:
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Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:52:03

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 21

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M01 Channel 261
 File: 101026A1 # 122 Method 6020_
 Acquired: 10/26/2010 22:31:12 M01
 Calibrated: 10/26/2010 17:39:56 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	Manganese	55	5323	0.02329	1.0	0.083	0.0	
7440-38-2	Arsenic	75	15083	-0.03806	2.0	0.50	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
7440-56-4	Germanium	72						<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:55:18

Department: 120 (Metals)

Source: MetEdit

Sample: L8VHKP5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 107	Method 6020_
Acquired: 10/26/2010 21:47:32	M01
Calibrated: 10/26/2010 17:39:56	Matrix: AIR
	Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7439-96-5	Manganese	55	1624094	391.44	392.24	0.202	0.14	0.2	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	15448	0.30639	0.44726	31.5	0.41	NC	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
7440-56-4	Germanium	72	1413990						<input type="checkbox"/>

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 10/27/10 13:55:25

Department: 120 (Metals)

Source: MetEdit

Sample: L8VHKZ

Spike Dilution: 1.00

Sample Dilution: 1.00

Instrument: ICPMS M01	Channel 261
File: 101026A1 # 108	Method 6020_
Acquired: 10/26/2010 21:50:25	M01
Calibrated: 10/26/2010 17:39:56	Matrix: AIR
	Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7439-96-5	Manganese	55	12334787	604.46	392.24	106	200		<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	626535	204.88	0.44726	102	200		<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
7440-56-4	Germanium	72	1394637						<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Sample Preparation Log

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

Date: 26-Oct-10

Analyst: JZ

Matrix: AIR

Fraction: Filter

SOP: WS-IP-0010

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G0J260000	248	L84F1B	2A	NA	NA	NA	100 mL	299248	1.2
G0J260000	248	L84F1C	2A	NA	NA	NA	100 mL	299248	1.2
G0J260000	248	L84F1L	2A	NA	NA	NA	100 mL	299248	1.2
G0J210484	1	L8VHK	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	2	L8VHM	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	3	L8VHN	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	4	L8VHQ	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	5	L8VHT	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	6	L8VHW	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	7	L8VHX	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	8	L8VH0	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2
G0J210484	9	L8VH2	2A	9 inches	0.75 inches	0.75 inches	100 mL	299248	1.2

For the cassette filter digest the whole filter is used.
 For 1" filter: factor = 9 (9/1).
 For 0.75" filter factor = 12 (9/0.75).

Preparation Data Review Checklist

Prep Batch(es) 0299248

Test: 6020

Prep Date: ~~0299248~~ 10/26/10

Holding Times: 4/11/11 NCM: Y N

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

Spike witness: TP

Date: 10/26/10

2nd Level Reviewer: SA

Date: 10/27/10

Comments:

Metals Spiking Documentation Form

Lot #(s): 60J210484

Batch Number: 0299248 EPA Analytical Method ID: 6020 Spiked Date: 10/26/10

MS Sample(s): N/A EPA Prep Method ID: WS-IP-0010 Hot Plate Microwave ID: Met IV

Analyst Initial/Date: JZ 10/26/10 Witness Initial/Date: TV 10/26/10 Hot Plate Temp Initial: 930C Final: 930C

Correct Folder ID Witness: N/A Digestion Cup Lot # A40965164 Thermometer ID: BT09

Filter Paper Lot # 388695 Fin Vol Cup Lot 100301

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/LCSD Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO ₃	Ca, Mg Al, As, Ba, Se, Sn, Ti Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn Cu Cr Be, Cd Ag	5,000 200 100 50 25 20 5 5.0				
	ICP Part 2 2% HNO ₃	K, Na P, S B, Li, Sr	5,000 1,000 100				
	SLH20A+HF	Si	1,000			JZ 10/26/10	
X	TACA-1 5% HNO ₃	Al, K, Mg, Ca, Na, Fe, P, B As, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, U, V, Zn, Ba, Li, Sr Ag, Ti	500 100 25	3189-6-5	200ul	N/A	8/31/11
X	TACA-2 5% HNO ₃	Mo, Sb, Sn, Ti	100	3189-6-6	200ul	N/A	8/31/11
	Misc. Elements						JZ 10/26/10

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO ₃	Mallinckrodt			30% H ₂ O ₂	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	
X	3M HNO ₃	In-House	4028-25-5		1:1 HCl	In-House	JZ 10/26/10

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

AIR, TSP- Total Suspended Particulates

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: 52 G0J210484 Batch #: 0298238
ANALYSIS: (circle) TSP/PM10 or METHOD 5
DATE: 10/25/10 ANALYST: Stalmunes

LEVEL 1 ANALYSIS REVIEW

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

LEVEL 1 DATA REVIEW

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

Completed By & Date: SV 10/25/10

LEVEL 2 REVIEW:

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

Completed By & Date: MGT 10/31/10

Comments: des 2B

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
 QC BATCH #: 0298238 INITIALS: RV DATA ENTRY: RV
 PREP DATE: 10/24/10 13:02 PREP: RV INITIALS: RV
 COMP DATE: 10/25/10 9:04 ANAL: RV DATE: 10/25/10
 USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
L8VHK-1-AA	G-0J210484-001	XX S 88 AO 3W	M	<u>10/25/10</u>	DW-10112010B
L8VHM-1-AA	G-0J210484-002	XX S 88 AO 3W	M		DW-10122010B
L8VHN-1-AA	G-0J210484-003	XX S 88 AO 3W	M		UW-10122010B
L8VHQ-1-AA	G-0J210484-004	XX S 88 AO 3W	M		DW-10132010B
L8VHT-1-AA	G-0J210484-005	XX S 88 AO 3W	M		UW-10132010B
L8VHW-1-AA	G-0J210484-006	XX S 88 AO 3W	M		DW-10142010B
L8VHX-1-AA	G-0J210484-007	XX S 88 AO 3W	M		UW-10142010B
L8VH0-1-AA	G-0J210484-008	XX S 88 AO 3W	M		UW-10152010B
L8VH2-1-AA	G-0J210484-009	XX S 88 AO 3W	M		DW-10182010B

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch 0298238

Date 10/25/2010
Time 9:24:22

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

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDI	Dil.
L8VHK-1-AA	0.0470	g	0.0005	10/24-10/25/10	.00	N		0.047	0.00050	1.00
L8VHM-1-AA	0.0187	g	0.0005	10/24-10/25/10	.00	N		0.019	0.00050	1.00
L8VHN-1-AA	0.0570	g	0.0005	10/24-10/25/10	.00	N		0.057	0.00050	1.00
L8VHQ-1-AA	0.0305	g	0.0005	10/24-10/25/10	.00	N		0.030	0.00050	1.00
L8VHT-1-AA	0.0559	g	0.0005	10/24-10/25/10	.00	N		0.056	0.00050	1.00
L8VHW-1-AA	0.0406	g	0.0005	10/24-10/25/10	.00	N		0.041	0.00050	1.00
L8VHX-1-AA	0.0446	g	0.0005	10/24-10/25/10	.00	N		0.045	0.00050	1.00
L8VH0-1-AA	0.0446	g	0.0005	10/24-10/25/10	.00	N		0.045	0.00050	1.00
L8VH2-1-AA	0.0124	g	0.0005	10/24-10/25/10	.00	N		0.012	0.00050	1.00

Notes:

TEST	TOTAL #	SAMPLE #	QC #	PRODUCTION TOTALS	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	0	.0

Working WT Denomination (g)	WEIGHT #1		Working WT Denomination (g)	WEIGHT #2		DATE	INIT.	WEIGHT ID	P/F
	OBSERVED WEIGHT (g)	Acceptance limits ² Lower (g) / Upper (g)		OBSERVED WEIGHT (g)	Acceptance limits ² Lower (g) / Upper (g)				
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.990 / 10.010	7/29/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	7/30/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/11/10	SV	QA-4	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/18/10	SV	QA-11	P	
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/19/10	SV	QA-11	P	
0.2g	0.1999	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/21/10	SV	QA-11	P	
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/21/10	SV	QA-11	P	
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/23/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/24/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/25/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/27/10	SV	QA-11	P	
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/28/10	SV	QA-11	P	
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.990 / 10.010	8/31/10	SV	QA-11	P	

1 P= Pass, F= Fail. The observed weight must be within the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.
 a) Do not move or use the balance
 b) Attach a sign instructing others not to use the balance (see front of logbook).
 c) Notify the QA department.
² Balance Tolerances (grams):

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

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

Denomination	Range
0.0020	0.0018 - 0.0022
1	0.9950 - 1.0050

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

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

Working WT Denomination (g)	WEIGHT #1		Working WT Denomination (g)	WEIGHT #2		DATE	INIT.	WEIGHT ID	P/F #1
	OBSERVED WEIGHT (g)	Acceptance limits ² Lower (g) Upper (g)		OBSERVED WEIGHT (g)	Acceptance limits ² Lower (g) Upper (g)				
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/5/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/6/10	SV	QA-11	P
0.2g	0.2001	0.1998 0.2002	10.0g	9.9900	10.0100	10/7/10	SV	QA-11	P
0.2g	0.2001	0.1998 0.2002	10.0g	9.9900	10.0100	10/8/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/10/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/11/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/12/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/13/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/14/10	SV	QA-11	P
0.2g	0.2000	0.1998 0.2002	10.0g	9.9900	10.0100	10/15/10	SV	QA-11	P
0.2g	0.2001	0.1998 0.2002	10.0g	9.9900	10.0100	10/16/10	SV	QA-11	P
0.2g	0.2002	0.1998 0.2002	10.0g	9.9900	10.0100	10/18/10	SV	QA-11	P
0.2g	0.2002	0.1998 0.2002	10.0g	9.9900	10.0100	10/19/10	SV	QA-011	P
0.2g	0.2001	0.1998 0.2002	10.0g	9.9900	10.0100	10/20/10	SV	QA-011	P

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

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

² Balance Tolerances (grams):

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

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

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

Denomination	Range
0.0020	0.0018 - 0.0022
1	0.9950 - 1.0050

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

Desiccator #	1			2			3			4			5			6			7			Amb			
	Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH			
8/13/10	ECF	70	32	-	-	71	28	-	72	35	-	70	28	-	71	28	-	72	16	2	72	11	2	72	46
8/14/10	ECF	71	32	-	-	72	28	-	73	35	-	72	28	-	72	27	2	73	18	2	73	11	2	75	44
8/16/10	ECF	70	33	-	-	70	28	-	71	37	-	70	28	-	71	28	-	72	22	2	72	11	2	72	47
8/17/10	ECF	70	33	-	-	70	28	-	71	38	-	70	28	-	70	28	-	72	22	2	72	11	2	72	45
8/18/10	ECF	70	33	-	-	70	28	-	71	39	-	70	28	-	70	29	-	72	23	2	72	14	2	72	47
8/19/10	ECF	70	33	-	-	70	28	-	71	40	2	70	28	-	70	29	-	72	23	2	72	14	2	72	48
8/20/10	ECF	71	33	-	-	71	30	-	72	26	2	71	28	-	71	30	-	72	24	2	72	16	2	73	46
8/23/10	ECF	70	33	-	-	71	33	-	72	27	2	71	28	-	71	33	-	72	24	2	72	19	2	73	39
8/24/10	ECF	72	33	-	-	72	34	-	73	27	2	72	28	-	72	35	-	73	25	2	73	21	2	73	49
8/25/10	ECF	73	32	-	-	73	35	-	75	27	2	73	30	-	73	36	-	73	25	2	73	21	2	75	43
8/26/10	ECF	73	32	-	-	73	34	-	74	27	2	73	30	-	73	35	-	73	26	2	73	21	2	75	47
8/27/10	ECF	71	33	-	-	72	35	-	73	28	-	72	32	-	72	35	-	72	27	2	72	22	2	73	47
8/30/10	ECF	70	33	-	-	70	35	-	71	31	-	69	33	-	70	36	-	72	29	-	72	22	2	72	41
8/31/10	ECF	70	33	-	-	70	36	-	71	31	-	70	34	-	70	38	-	72	30	-	72	22	2	72	51
9/1/10	ECF	71	33	-	-	71	37	-	72	32	-	71	34	-	71	39	-	73	31	-	72	23	2	73	43

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento Air Toxics

Desiccator Humidity/Temperature Logbook

Desiccator #	1			2			3			4			5			6			7			Amb			
	Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH			
10/6/10	EC1	71	33	-	-	71	34	-	72	31	-	71	33	-	71	29	-	73	34	-	73	28	-	73	40
10/7/10	EC2	70	32	-	-	71	34	-	72	32	-	71	33	-	71	29	-	73	34	-	72	29	-	73	42
10/8/10	EC3	70	33	-	-	70	34	-	72	32	-	70	33	-	71	31	-	72	35	-	72	29	-	73	39
10/9/10	EC4	70	33	-	-	70	33	-	71	33	-	70	33	-	70	31	-	72	34	-	72	29	-	73	40
10/10/10	EC5	73	31	-	-	74	30	-	75	32	-	74	33	-	72	34	-	73	35	-	75	30	-	73	43
10/11/10	EC6	72	33	-	-	72	37	-	73	34	-	72	35	-	72	34	-	73	35	-	73	28	-	73	27
10/12/10	EC7	71	32	-	-	72	35	-	73	32	-	71	33	-	72	33	-	73	34	-	73	29	-	73	32
10/13/10	EC8	71	33	-	-	71	36	-	72	32	-	71	33	-	71	33	-	73	34	-	73	30	-	73	42
10/14/10	EC9	72	32	-	-	72	38	-	73	33	-	72	34	-	72	36	-	73	34	-	73	30	-	73	42
10/15/10	EC10	71	33	-	-	72	38	-	73	33	-	71	34	-	72	36	-	73	34	-	73	30	-	73	42
10/16/10	EC11	72	33	-	-	72	38	-	73	33	-	72	34	-	72	36	-	73	34	-	73	30	-	73	42
10/17/10	EC12	69	33	-	-	72	38	-	73	33	-	72	34	-	72	36	-	73	34	-	73	30	-	73	42
10/18/10	EC13	69	33	-	-	69	28	-	70	34	-	69	34	-	70	35	-	72	34	-	72	30	-	72	44
10/19/10	EC14	69	33	-	-	69	28	-	70	34	-	69	34	-	70	35	-	72	34	-	72	30	-	72	44
10/20/10	EC15	70	33	-	-	71	28	-	72	35	-	70	36	-	71	37	-	73	34	-	72	31	-	72	43
10/21/10	EC16	70	32	-	-	70	28	-	71	34	-	70	36	-	70	37	-	72	35	-	72	31	-	72	42

FN = Foot Note

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

Abbreviations: T = Temperature (°F)

RH 33± 5%

1 = Desiccant Changed

Foot Notes:

Desiccator #	1			2			3			4			5			6			7			Amb		
	Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH		
	10/24/10	ECF	70	33	-	71	28	-	72	35	-	71	37	-	71	38	-	73	35	-	72	31	73	45
	10/25/10	SV	70	33	-	71	28	-	72	36	-	72	41	1	71	42	1	73	35	-	72	32	73	56
	10/26/10	SV	69	33	-	69	28	-	70	37	-	69	28	-	70	28	-	72	35	-	72	34	72	43

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

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

FN = Foot Note

WEIGHT #1		WEIGHT #2		OBSERVED WEIGHT (g)	Working WT Denomination (g)	DATE	INIT.	WEIGHT ID	P/F
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits ² Lower (g)	Acceptance limits ² Upper (g)						
0.2000	0.1996	0.1995	0.2005	10.0002	10.000	10/22/10	ECF	QA-011	P
0.2000	0.2003	0.1995	0.2005	10.0001	10.000	10/22/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0005	10.0	10/24/10	QU	QA-11	P
0.2000	0.2002	0.1995	0.2005	10.0001	10.000	10/24/10	QU	QA-11	P

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