

November 11, 2010

TestAmerica Project Number: G0J260480
PO/Contract: 2027.07

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

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on October 26, 2010. These samples are associated with your Tronox Henderson Air Monitoring project.

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

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

Sincerely,



DAVID R. ALLTUCKER
Project Manager

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Case Narrative

TestAmerica West Sacramento Project Number G0J260480

AIR, TO-13, Semivolatile Organics

Sample(s): 1, 5, 8, 10, 14, 18, 19, 22

The surrogate recoveries for the samples are low and outside criteria. The results may be biased low. Re-analysis confirmed.

Sample(s): 5

As the extract was being concentrated to the final volume, a small droplet formed in the extract. As it did not appear miscible with the solvent, it was removed. This may cause a low bias in the results for this sample.

AIR, TO-9, Dioxins/Furans

Sample(s): 3, 6, 7, 9, 13, 17, 21, 24

The laboratory control sample (LCS) associated with this extraction batch has recoveries above the established control limits. A QC of the Native Spike used for this LCS was analyzed to help determine the root cause of this anomaly. The QC results showed a concentration of the spike solution consistent with the results seen in the extracted LCS. There is no negative impact to the data due to this anomaly. Supporting data can be found in the appendix of the raw data for this analysis.

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

Sample(s): 3, 6

The surrogate recoveries for 37Cl-2,3,7,8-TCDD were high and outside criteria in the above samples. However, the surrogate recoveries in the associated method blank and laboratory control sample (LCS) were within established control limits. As the quantitation of the target analytes is not calculated out of this clean up recovery standard there is no adverse impact upon the data.

Sample(s): 3, 7, 9, 21

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on November 5, 2010.

Sample(s): 13

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

Case Narrative

TestAmerica West Sacramento Project Number G0J260480

AIR, TSP-Total Suspended Particulates

Sample(s): 4, 11, 16, 20, 23

It was noted that the filter corners of the samples were torn or missing during the first final weighing. This could effect the initial values taken of the filters.

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 G0J260480

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
L84MH	1	DW-10202010B	10/20/2010 05:01 PM	10/26/2010 09:50 AM
L84MW	2	DW-10202010B	10/20/2010 05:10 PM	10/26/2010 09:50 AM
L84M1	3	DW-10202010B	10/20/2010 05:00 PM	10/26/2010 09:50 AM
L84M3	4	UW-10202010B	10/20/2010 04:44 PM	10/26/2010 09:50 AM
L84M6	5	UW-10202010B	10/20/2010 04:24 PM	10/26/2010 09:50 AM
L84M7	6	UW-10202010B	10/20/2010 04:25 PM	10/26/2010 09:50 AM
L84NE	7	UW-10212010B	10/21/2010 04:20 PM	10/26/2010 09:50 AM
L84NF	8	UW-10212010B	10/21/2010 04:22 PM	10/26/2010 09:50 AM
L84NP	9	DW-10212010B	10/21/2010 04:42 PM	10/26/2010 09:50 AM
L84NR	10	DW-10212010B	10/21/2010 04:43 PM	10/26/2010 09:50 AM
L84NW	11	DW-10212010B	10/21/2010 04:45 PM	10/26/2010 09:50 AM
L84N2	12	UW-10212010B	10/21/2010 04:25 PM	10/26/2010 09:50 AM
L84N6	13	DW-10222010B	10/22/2010 04:00 PM	10/26/2010 09:50 AM
L84PR	14	DW-10222010B	10/22/2010 04:02 PM	10/26/2010 09:50 AM
L84QX	15	DW-10222010B	10/22/2010 04:07 PM	10/26/2010 09:50 AM
L84Q2	16	UW-10222010B	10/22/2010 04:47 PM	10/26/2010 09:50 AM
L84Q3	17	UW-10222010B	10/22/2010 04:20 PM	10/26/2010 09:50 AM
L84Q4	18	UW-10222010B	10/22/2010 04:22 PM	10/26/2010 09:50 AM
L84Q5	19	DW-10232010B	10/23/2010 04:51 PM	10/26/2010 09:50 AM
L84Q6	20	DW-10232010B	10/23/2010 04:54 PM	10/26/2010 09:50 AM
L84Q7	21	DW-10232010B	10/23/2010 04:50 PM	10/26/2010 09:50 AM
L84Q9	22	UW-10232010B	10/23/2010 04:26 PM	10/26/2010 09:50 AM
L84RC	23	UW-10232010B	10/23/2010 04:29 PM	10/26/2010 09:50 AM
L84RM	24	UW-10232010B	10/23/2010 04:25 PM	10/26/2010 09:50 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.

Page: 1 of 2
Cooler # 1 of 2

COC # 2027.07.0013

Total # of Samples: 18

Event Complete?

Required Project Information:		Required Invoice Information:		Regular		Rush		5 day		Mark One							
Lab Name:	Test America Laboratories Inc	Site ID #:	102	Send Invoice to:	Busan Crowley Tremox LLC.												
Address:	880 Riverside Parkway West Sacramento, CA 95606	Project #:	2027.07	Address:	PO Box 85 Henderson, NV 89009												
Lab P/N:	David Allister	City:	Henderson	City/State:	Henderson, NV 89009												
Phone/Fax:	(916) 373-9600	State:	NV	PO #:													
Lab PM email:	David.Allister@testamerica.com	Site PM Name:	Ted Spitzer	Send EDD to:	Frank.Hagan@ngem.com												
Applicable Lab Quota #:		Phone/Fax:	(510) 438-4609	CC Handcopy report to:	PDF Electronic Version Only - FTP Upload												
		Site PM Email:	Ted.Spitzer@ngem.com	CC Handcopy report to:	See Additional Comments Below												
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-8A/Docs, Furns	TO-13A/27C/HCB	TSP	6020/A/CPMS	Temp in OC	Samples on Ice?	Sample Intact?	Temp Blank?
	DW-10202010B		AA			10/20/2010	5:01 PM	1		X	X	X					
	DW-10202010B		AA			10/20/2010	5:10 PM	1		X	X	X					
	DW-10202010B		AA			10/20/2010	5:00 PM	1		X	X	X					
	UW-10202010B		AA			10/20/2010	4:44 PM	1		X	X	X					
	UW-10202010B		AA			10/20/2010	4:24 PM	1		X	X	X					
	UW-10202010B		AA			10/20/2010	4:25 PM	1		X	X	X					
	UW-10212010B		AA			10/21/2010	4:20 PM	1		X	X	X					
	UW-10212010B		AA			10/21/2010	4:22 PM	1		X	X	X					
	DW-10212010B		AA			10/21/2010	4:42 PM	1		X	X	X					
	DW-10212010B		AA			10/21/2010	4:43 PM	1		X	X	X					
	DW-10212010B		AA			10/21/2010	4:45 PM	1		X	X	X					
	UW-10212010B		AA			10/21/2010	4:25 PM	1		X	X	X					
	DW-10222010B		AA			10/22/2010	4:00 PM	1		X	X	X					
	DW-10222010B		AA			10/22/2010	4:02 PM	1		X	X	X					
	DW-10222010B		AA			10/22/2010	4:07 PM	1		X	X	X					
	UW-10222010B		AA			10/22/2010	4:47 PM	1		X	X	X					
	UW-10222010B		AA			10/22/2010	4:20 PM	1		X	X	X					
	UW-10222010B		AA			10/22/2010	4:22 PM	1		X	X	X					

Additional Comments/Special Instructions: 3-5 DAY TURN AROUND: TO-13s FROM 10/20/10 ARE TWO DAYS BEFORE HOLD TIME EXPIRES		Temp in OC	Samples on Ice?	Sample Intact?	Temp Blank?
Bonded Bailey 10/25/10 5:00		260010	1030	Y/N	Y/N
Signature of Sampler: <i>[Signature]</i>					
Signature of Analytical: <i>[Signature]</i>					
Signature of Receiver: <i>[Signature]</i>					
Time: 1:50					



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.

Required Ship to Lab: Lab Name: Test America Laboratories Inc Address: 860 Riverside Parkway West Sacramento, CA 95605 Lab Pk: David Allrecker Phone/Fax: (916) 373-8600 Lab PM email: David.Allrecker@testamericainc.com Applicable Lab Quots #:		Required Project Information: Site ID #102: TRONOX LLC, HENDERSON Project #: 2027.07 Site Address: 560 W Lake Mead Pkwy City: Henderson State, Zip: NV, 89015 Site PM Name: Ted Spittler Phone/Fax: (510) 438-4909 Site PM Email: Ted.Spittler@ncem.com		Required Invoice Information: Send Invoice to: Susan Crowley Tronox LLC. Address: PO Box 66 Henderson, NV 89009 Phone #: (949) 280-9283 PO #		COC # 2027.07.0013 Total # of Samples: 6 Event Complete?														
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m ³)	TO-9A/Dioxins, Furans	TP	8020A/CPMS	Regular	Rush	5 day	Mixt One	Temp in DC	Samples on Ice?	Sample Intact?	Trip Blank?
	DW-10232010B		AA			10/23/2010	4:51 PM	1	584.4	X										
	DW-10232010B		AA			10/23/2010	4:54 PM	1	906.02	X										
	DW-10232010B		AA			10/23/2010	4:50 PM	1	584.29	X										
	UW-10232010B		AA			10/23/2010	4:28 PM	1	545.71	X										
	UW-10232010B		AA			10/23/2010	4:29 PM	1	838.27	X										
	UW-10232010B		AA			10/23/2010	4:25 PM	1	533.24	X										
Additional Comments/Special Instructions: 3-5 DAY TURN AROUND: TO-13s FROM 10/20/10 ARE TWO DAYS BEFORE HOLD TIME EXPIRES Ronda S. Bailey 10/25/10 1500 Jack TOL N.S.A.C 10/26/10 10:30 Temp in DC Samples on Ice? Sample Intact? Trip Blank?																				

CLIENT PORTLAND PM 9A LOG# 67795
LOT# (QUANTIMS ID) G03260480 QUOTE# 24087 LOCATION WIHD AC
DATE RECEIVED 26 OCT 10 TIME RECEIVED 0950 Checked (✓)
DELIVERED BY FEDEX ON TRAC CLIENT
 GOLDENSTATE UPS GO-GETTERS OTHER
 TAL COURIER TAL SF VALLEY LOGISTICS
CUSTODY SEAL STATUS INTACT BROKEN N/A
CUSTODY SEAL #(S) 764147, 764148
SHIPPING CONTAINER(S) TAL CLIENT N/A
COC #(S) _____
TEMPERATURE BLANK Observed: _____ Corrected: _____ *SEE MULTI-COPY OF RECEIPT CHECKLIST*
SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)
Observed: _____ Average _____ Corrected Average _____
LABORATORY THERMOMETER ID:
IR UNIT: #4 #5 OTHER _____

	Initials	Date
pH MEASURED <input type="checkbox"/> YES <input type="checkbox"/> ANOMALY <input checked="" type="checkbox"/> N/A		
LABELED BY.....		
LABELS CHECKED BY.....		
PEER REVIEW <input checked="" type="checkbox"/> NA		
SHORT HOLD TEST NOTIFICATION		
SAMPLE RECEIVING		
WETCHEM <input checked="" type="checkbox"/> N/A		
VOA-ENCORES <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES <input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> CLOUSEAU <input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C)*1 <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> WET ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> GEL PACK <input type="checkbox"/> NO COOLING AGENTS USED <input checked="" type="checkbox"/> PM NOTIFIED		
	<u>[Signature]</u>	<u>26 OCT 10</u>

Notes _____

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

CLIENT: NORFOLK LOT# (QUANTIMS ID): 00260480
Checked (✓)

TEMPERATURE RECORD (IN °C) : IR 4 5 OTHER

COOLER ID 1

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) 764147 764148

COC #(S) 2027.07.0013

TEMPERATURE BLANK: OBSERVED: NA CORRECTED: NA

SAMPLE TEMPERATURE:

OBSERVED: 5 AVERAGE: 5 CORRECTED: 5

SAMPLES / TESTS (IF NCM REQUIRED): NA

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER

COOLER ID 2

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) 764149 764150

COC #(S) 2027.07.0013

TEMPERATURE BLANK: OBSERVED: NA CORRECTED: NA

SAMPLE TEMPERATURE:

OBSERVED: 2 AVERAGE: 2 CORRECTED: 2

SAMPLES / TESTS (IF NCM REQUIRED): NA

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER

COOLER ID _____

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

COC #(S) _____

TEMPERATURE BLANK: OBSERVED: NA CORRECTED: _____

SAMPLE TEMPERATURE:

OBSERVED: _____ AVERAGE: _____ CORRECTED: _____

SAMPLES / TESTS (IF NCM REQUIRED): _____

Initials [Signature] Date 260710

Lot ID: 601260480

	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

Lot ID: G0J260480

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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																				
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

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-10202010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 001	Work Order #....: L84MH1AA	Matrix....: AA
Date Sampled....: 10/20/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/28/10	Volume....: 393.12
Prep Batch #: 0299370	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	0.026	0.025	0.0033	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		56		60 - 120
2-Fluorobiphenyl		65		58 - 105
2-Fluorophenol		60		41 - 105
Nitrobenzene-d5		62		46 - 118
Phenol-d5		71		43 - 122
Terphenyl-d14		79		69 - 110
2,4,6-Tribromophenol		99		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-1020210B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 005	Work Order #....: L84M61AA	Matrix....: AA
Date Sampled....: 10/20/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/28/10	Volume....: 577.18
Prep Batch #: 0299370	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		26 *		60 - 120
2-Fluorobiphenyl		38 *		58 - 105
2-Fluorophenol		34 *		41 - 105
Nitrobenzene-d5		36 *		46 - 118
Phenol-d5		41 *		43 - 122
Terphenyl-d14		32 *		69 - 110
2,4,6-Tribromophenol		39 *		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 008	Work Order #....: L84NF1AA	Matrix....: AA
Date Sampled....: 10/21/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/28/10	Volume....: 562.97
Prep Batch #: 0299370	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	0.018	0.0023	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		52 *	60 - 120	
2-Fluorobiphenyl		75	58 - 105	
2-Fluorophenol		65	41 - 105	
Nitrobenzene-d5		72	46 - 118	
Phenol-d5		77	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: DW-10212010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 010	Work Order #....: L84NR1AA	Matrix....: AA
Date Sampled....: 10/21/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/29/10	Volume....: 554.66
Prep Batch #: 0299370	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	0.0083 J	0.018	0.0023	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		31		60 - 120
2-Fluorobiphenyl		67		58 - 105
2-Fluorophenol		57		41 - 105
Nitrobenzene-d5		63		46 - 118
Phenol-d5		63		43 - 122
Terphenyl-d14		79		69 - 110
2,4,6-Tribromophenol		87		61 - 118

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 014	Work Order #....:	L84PR1AA	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/26/10	Analysis Date....:	10/28/10	Volume....:	530.87
Prep Batch #:	0299370	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	0.044	0.019	0.0024	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		39	*	60 - 120
2-Fluorobiphenyl		67		58 - 105
2-Fluorophenol		58		41 - 105
Nitrobenzene-d5		62		46 - 118
Phenol-d5		66		43 - 122
Terphenyl-d14		81		69 - 110
2,4,6-Tribromophenol		91		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 018	Work Order #....: L84Q41AA	Matrix....: AA
Date Sampled....: 10/22/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/28/10	Volume....: 540.02
Prep Batch #: 0299370	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	0.019	0.0024	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		35 *		60 - 120
2-Fluorobiphenyl		71		58 - 105
2-Fluorophenol		59		41 - 105
Nitrobenzene-d5		68		46 - 118
Phenol-d5		67		43 - 122
Terphenyl-d14		79		69 - 110
2,4,6-Tribromophenol		89		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 019	Work Order #....: L84Q51AA	Matrix....: AA
Date Sampled....: 10/23/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/29/10	Volume....: 584.4
Prep Batch #: 0299370	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	0.015 J	0.017	0.0022	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		53	60 - 120	
2-Fluorobiphenyl		72	58 - 105	
2-Fluorophenol		61	41 - 105	
Nitrobenzene-d5		65	46 - 118	
Phenol-d5		69	43 - 122	
Terphenyl-d14		79	69 - 110	
2,4,6-Tribromophenol		89	61 - 118	

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 022	Work Order #....: L84Q91AA	Matrix....: AA
Date Sampled....: 10/23/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/26/10	Analysis Date....: 10/28/10	Volume....: 545.71
Prep Batch #: 0299370	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	0.018	0.0024	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		41 *		60 - 120
2-Fluorobiphenyl		67		58 - 105
2-Fluorophenol		60		41 - 105
Nitrobenzene-d5		58		46 - 118
Phenol-d5		69		43 - 122
Terphenyl-d14		80		69 - 110
2,4,6-Tribromophenol		93		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G0J260480

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	EPA-2 TO-13		0299370	
002	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
003	AA	EPA-2 TO-9		0299369	
004	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
005	AA	EPA-2 TO-13		0299370	
006	AA	EPA-2 TO-9		0299369	
007	AA	EPA-2 TO-9		0299369	
008	AA	EPA-2 TO-13		0299370	
009	AA	EPA-2 TO-9		0299369	
010	AA	EPA-2 TO-13		0299370	
011	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
012	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
013	AA	EPA-2 TO-9		0299369	
014	AA	EPA-2 TO-13		0299370	
015	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
016	AA	CFR50B APDX B		0302353	
	AA	SW846 6020		0302324	
017	AA	EPA-2 TO-9		0299369	
018	AA	EPA-2 TO-13		0299370	

(Continued on next page)

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J260000 - 370B Work Order #....: L84XK1AA Matrix....: AIR
Date Sampled....: 10/20/10 Date Received....: 10/26/10 Dilution Factor....: 1
Prep Date....: 10/26/10 Analysis Date....: 10/28/10 Volume....: 0
Prep Batch #: 0299370 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	53	*	60 - 120	
2-Fluorobiphenyl	61		58 - 105	
2-Fluorophenol	55		41 - 105	
Nitrobenzene-d5	58		46 - 118	
Phenol-d5	62		43 - 122	
Terphenyl-d14	78		69 - 110	
2,4,6-Tribromophenol	92		61 - 118	

QUALIFIERS

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J260480	Work Order # ...: L84XK1AC-LCS	Matrix : AIR
LCS Lot-Sample# : G0J260000 - 370	L84XK1AD-LCSD	
Prep Date : 10/26/10	Analysis Date ..: 10/28/10	
Prep Batch # ...: 0299370		
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	86.3	ug	86	(70 - 110)		
	100	85.2	ug	85	(70 - 110)	1.4	(0 - 30)
<u>SURROGATE</u>				<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl				77	(58 - 105)		
				75	(58 - 105)		
2-Fluorophenol				67	(41 - 105)		
				67	(41 - 105)		
Nitrobenzene-d5				70	(46 - 118)		
				73	(46 - 118)		
Phenol-d5				73	(43 - 122)		
				74	(43 - 122)		
Terphenyl-d14				77	(69 - 110)		
				79	(69 - 110)		
2,4,6-Tribromophenol				93	(61 - 118)		
				90	(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-10202010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 003	Work Order #....: L84M11AA	Matrix....: AA
Date Sampled....: 10/20/10	Date Received....: 10/26/10	Dilution Factor....: 2
Prep Date....: 10/26/10	Analysis Date....: 11/03/10	Volume....: 565.82
Prep Batch #: 0299369	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	0.023 J Q	0.035	0.011	pg/m3
Total TCDD	0.88	0.035	0.011	pg/m3
1,2,3,7,8-PeCDD	ND	0.18	0.019	pg/m3
Total PeCDD	0.40	0.18	0.015	pg/m3
1,2,3,4,7,8-HxCDD	0.024 J Q	0.18	0.0090	pg/m3
1,2,3,6,7,8-HxCDD	0.044 J Q	0.18	0.0076	pg/m3
1,2,3,7,8,9-HxCDD	0.061 J	0.18	0.0080	pg/m3
Total HxCDD	0.34	0.18	0.0081	pg/m3
1,2,3,4,6,7,8-HpCDD	0.17 Q J	0.18	0.015	pg/m3
Total HpCDD	0.25	0.18	0.015	pg/m3
OCDD	0.18 J	0.35	0.012	pg/m3
2,3,7,8-TCDF	0.45 CON	0.035	0.0049	pg/m3
Total TCDF	13	0.035	0.0090	pg/m3
1,2,3,7,8-PeCDF	0.52	0.18	0.018	pg/m3
2,3,4,7,8-PeCDF	0.26	0.18	0.019	pg/m3
Total PeCDF	4.9	0.18	0.019	pg/m3
1,2,3,4,7,8-HxCDF	0.81	0.18	0.019	pg/m3
1,2,3,6,7,8-HxCDF	0.52	0.18	0.017	pg/m3
2,3,4,6,7,8-HxCDF	0.14 J	0.18	0.019	pg/m3
1,2,3,7,8,9-HxCDF	0.081 J	0.18	0.021	pg/m3
Total HxCDF	4.2	0.18	0.019	pg/m3
1,2,3,4,6,7,8-HpCDF	2.2	0.18	0.017	pg/m3
1,2,3,4,7,8,9-HpCDF	0.76	0.18	0.019	pg/m3
Total HpCDF	4.2	0.18	0.018	pg/m3
OCDF	5.8	0.35	0.021	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	83	50 - 120
13C-1,2,3,7,8-PeCDD	70	50 - 120
13C-1,2,3,6,7,8-HxCDD	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	74	40 - 120
13C-OCDD	61	40 - 120
13C-2,3,7,8-TCDF	100	50 - 120
13C-1,2,3,7,8-PeCDF	87	50 - 120
13C-1,2,3,4,7,8-HxCDF	102	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	123 *	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-10202010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 003	Work Order #....:	L84M11AA	Matrix....:	AA
Date Sampled....:	10/20/10	Date Received....:	10/26/10	Dilution Factor....:	2
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	565.82
Prep Batch #:	0299369	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

QUALIFIERS

- * Surrogate recovery is outside stated control limits.
- CON Confirmation analysis.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 006
 Date Sampled....: 10/20/10
 Prep Date....: 10/26/10
 Prep Batch #: 0299369
 Initial Wgt/Vol....: 1 Sample

Work Order #....: L84M71AA
 Date Received....: 10/26/10
 Analysis Date....: 11/03/10
 Instrument ID....: 1D5
 Analyst ID....: Sonia Ouni

Matrix....: AA
 Dilution Factor....: 2
 Volume....: 671.43
 Method....: EPA-2 TO-9

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND	0.030	0.0052	pg/m3
Total TCDD	ND	0.030	0.0052	pg/m3
1,2,3,7,8-PeCDD	ND	0.15	0.0094	pg/m3
Total PeCDD	ND	0.15	0.0094	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.15	0.0089	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.15	0.0074	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.15	0.0079	pg/m3
Total HxCDD	ND	0.15	0.0089	pg/m3
1,2,3,4,6,7,8-HpCDD	ND	0.15	0.0040	pg/m3
Total HpCDD	ND	0.15	0.0069	pg/m3
OCDD	ND	0.30	0.028	pg/m3
2,3,7,8-TCDF	ND	0.030	0.012	pg/m3
Total TCDF	ND	0.030	0.018	pg/m3
1,2,3,7,8-PeCDF	ND	0.15	0.0076	pg/m3
2,3,4,7,8-PeCDF	ND	0.15	0.0082	pg/m3
Total PeCDF	ND	0.15	0.011	pg/m3
1,2,3,4,7,8-HxCDF	ND	0.15	0.0085	pg/m3
1,2,3,6,7,8-HxCDF	ND	0.15	0.0060	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.15	0.0045	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.15	0.0052	pg/m3
Total HxCDF	ND	0.15	0.010	pg/m3
1,2,3,4,6,7,8-HpCDF	0.026	J	0.015	pg/m3
1,2,3,4,7,8,9-HpCDF	ND	0.15	0.011	pg/m3
Total HpCDF	0.026	0.15	0.0066	pg/m3
OCDF	ND	0.30	0.049	pg/m3

INTERNAL STANDARDS

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

PERCENT RECOVERY

84
 75
 89
 75
 63
 100
 86
 102
 82

RECOVERY LIMITS

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

SURROGATE

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

PERCENT RECOVERY

122

RECOVERY LIMITS

50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 006
Date Sampled....: 10/20/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84M71AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 671.43
Method....: EPA-2 TO-9

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 007	Work Order #....:	L84NE1AA	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	2
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	553.12
Prep Batch #:	0299369	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

<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	0.0042	pg/m3
Total TCDD	ND	0.036	0.0063	pg/m3
1,2,3,7,8-PeCDD	ND	0.18	0.0080	pg/m3
Total PeCDD	ND	0.18	0.011	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.18	0.0092	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.18	0.0080	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.18	0.0081	pg/m3
Total HxCDD	ND	0.18	0.0092	pg/m3
1,2,3,4,6,7,8-HpCDD	ND	0.18	0.013	pg/m3
Total HpCDD	ND	0.18	0.013	pg/m3
OCDD	0.048	J Q	0.012	pg/m3
2,3,7,8-TCDF	0.017	CON	0.036	pg/m3
Total TCDF	0.22		0.036	pg/m3
1,2,3,7,8-PeCDF	ND		0.18	pg/m3
2,3,4,7,8-PeCDF	ND		0.18	pg/m3
Total PeCDF	ND		0.18	pg/m3
1,2,3,4,7,8-HxCDF	0.028	J	0.18	pg/m3
1,2,3,6,7,8-HxCDF	0.013	J Q	0.18	pg/m3
2,3,4,6,7,8-HxCDF	ND		0.18	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.18	pg/m3
Total HxCDF	0.082		0.18	pg/m3
1,2,3,4,6,7,8-HpCDF	0.059	J	0.18	pg/m3
1,2,3,4,7,8,9-HpCDF	ND		0.18	pg/m3
Total HpCDF	0.088		0.18	pg/m3
OCDF	0.14	J Q	0.36	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	83	50 - 120
13C-1,2,3,7,8-PeCDD	68	50 - 120
13C-1,2,3,6,7,8-HxCDD	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	76	40 - 120
13C-OCDD	61	40 - 120
13C-2,3,7,8-TCDF	103	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	108	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	112	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 007	Work Order #....:	L84NE1AA	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	2
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	553.12
Prep Batch #:	0299369	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 009
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84NP1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 552.29
Method....: EPA-2 TO-9

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.036	0.0022	pg/m3
Total TCDD	0.13	0.036	0.0022	pg/m3
1,2,3,7,8-PeCDD	ND	0.18	0.013	pg/m3
Total PeCDD	ND	0.18	0.015	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.18	0.0085	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.18	0.0072	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.18	0.0076	pg/m3
Total HxCDD	ND	0.18	0.0091	pg/m3
1,2,3,4,6,7,8-HpCDD	ND	0.18	0.016	pg/m3
Total HpCDD	ND	0.18	0.016	pg/m3
OCDD	ND	0.36	0.031	pg/m3
2,3,7,8-TCDF	0.12 CON	0.036	0.0040	pg/m3
Total TCDF	3.1	0.036	0.0069	pg/m3
1,2,3,7,8-PeCDF	0.067 J Q	0.18	0.011	pg/m3
2,3,4,7,8-PeCDF	0.043 J	0.18	0.012	pg/m3
Total PeCDF	0.82	0.18	0.011	pg/m3
1,2,3,4,7,8-HxCDF	0.079 J Q	0.18	0.0062	pg/m3
1,2,3,6,7,8-HxCDF	0.043 J	0.18	0.0053	pg/m3
2,3,4,6,7,8-HxCDF	0.018 J Q	0.18	0.0060	pg/m3
1,2,3,7,8,9-HxCDF	0.0096 J Q	0.18	0.0069	pg/m3
Total HxCDF	0.34	0.18	0.0060	pg/m3
1,2,3,4,6,7,8-HpCDF	0.12 Q J	0.18	0.012	pg/m3
1,2,3,4,7,8,9-HpCDF	0.035 J Q	0.18	0.014	pg/m3
Total HpCDF	0.23	0.18	0.013	pg/m3
OCDF	0.30 J	0.36	0.018	pg/m3

INTERNAL STANDARDS

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

PERCENT RECOVERY

85
 70
 87
 77
 66
 101
 83
 105
 89

RECOVERY LIMITS

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

SURROGATE

37C14-2,3,7,8-TCDD

PERCENT RECOVERY

111

RECOVERY LIMITS

50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 009
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84NP1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 552.29
Method....: EPA-2 TO-9

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 013	Work Order #....: L84N61AA	Matrix....: AA
Date Sampled....: 10/22/10	Date Received....: 10/26/10	Dilution Factor....: 2
Prep Date....: 10/26/10	Analysis Date....: 11/03/10	Volume....: 530.07
Prep Batch #: 0299369	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	0.028 Q J	0.038	0.0058	pg/m3
Total TCDD	0.56	0.038	0.0058	pg/m3
1,2,3,7,8-PeCDD	0.023 J Q	0.19	0.018	pg/m3
Total PeCDD	0.31	0.19	0.018	pg/m3
1,2,3,4,7,8-HxCDD	0.020 J Q	0.19	0.012	pg/m3
1,2,3,6,7,8-HxCDD	0.040 J	0.19	0.0100	pg/m3
1,2,3,7,8,9-HxCDD	0.053 J	0.19	0.010	pg/m3
Total HxCDD	0.33	0.19	0.011	pg/m3
1,2,3,4,6,7,8-HpCDD	0.15 J	0.19	0.011	pg/m3
Total HpCDD	0.22	0.19	0.011	pg/m3
OCDD	0.22 J	0.38	0.0075	pg/m3
2,3,7,8-TCDF	0.59 CON	0.038	0.0068	pg/m3
Total TCDF	12	0.038	0.011	pg/m3
1,2,3,7,8-PeCDF	0.70	0.19	0.023	pg/m3
2,3,4,7,8-PeCDF	0.29	0.19	0.025	pg/m3
Total PeCDF	4.6	0.19	0.025	pg/m3
1,2,3,4,7,8-HxCDF	0.80	0.19	0.012	pg/m3
1,2,3,6,7,8-HxCDF	0.53	0.19	0.0100	pg/m3
2,3,4,6,7,8-HxCDF	0.14 J	0.19	0.011	pg/m3
1,2,3,7,8,9-HxCDF	0.095 Q J	0.19	0.013	pg/m3
Total HxCDF	3.8	0.19	0.011	pg/m3
1,2,3,4,6,7,8-HpCDF	2.1	0.19	0.023	pg/m3
1,2,3,4,7,8,9-HpCDF	0.82	0.19	0.026	pg/m3
Total HpCDF	4.2	0.19	0.025	pg/m3
OCDF	5.7	0.38	0.026	pg/m3

<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	75	50 - 120
13C-1,2,3,6,7,8-HxCDD	89	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	81	40 - 120
13C-OCDD	76	40 - 120
13C-2,3,7,8-TCDF	104	50 - 120
13C-1,2,3,7,8-PeCDF	87	50 - 120
13C-1,2,3,4,7,8-HxCDF	106	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	114	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 013
Date Sampled....: 10/22/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84N61AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 530.07
Method....: EPA-2 TO-9

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 017	Work Order #....: L84Q31AA	Matrix....: AA
Date Sampled....: 10/22/10	Date Received....: 10/26/10	Dilution Factor....: 2
Prep Date....: 10/26/10	Analysis Date....: 11/03/10	Volume....: 516.37
Prep Batch #: 0299369	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND		0.039	0.0029	pg/m3
Total TCDD	ND		0.039	0.0035	pg/m3
1,2,3,7,8-PeCDD	ND		0.19	0.010	pg/m3
Total PeCDD	ND		0.19	0.010	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.19	0.0091	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.19	0.0077	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.19	0.0081	pg/m3
Total HxCDD	ND		0.19	0.0091	pg/m3
1,2,3,4,6,7,8-HpCDD	ND		0.19	0.0074	pg/m3
Total HpCDD	ND		0.19	0.0081	pg/m3
OCDD	ND		0.39	0.014	pg/m3
2,3,7,8-TCDF	0.017	J Q	0.039	0.0037	pg/m3
Total TCDF	0.042		0.039	0.0037	pg/m3
1,2,3,7,8-PeCDF	ND		0.19	0.012	pg/m3
2,3,4,7,8-PeCDF	ND		0.19	0.013	pg/m3
Total PeCDF	ND		0.19	0.014	pg/m3
1,2,3,4,7,8-HxCDF	0.018	J Q	0.19	0.0056	pg/m3
1,2,3,6,7,8-HxCDF	ND		0.19	0.0072	pg/m3
2,3,4,6,7,8-HxCDF	ND		0.19	0.0070	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.19	0.0064	pg/m3
Total HxCDF	0.018		0.19	0.0056	pg/m3
1,2,3,4,6,7,8-HpCDF	0.021	J Q	0.19	0.0083	pg/m3
1,2,3,4,7,8,9-HpCDF	ND		0.19	0.010	pg/m3
Total HpCDF	0.021		0.19	0.0089	pg/m3
OCDF	0.072	J	0.39	0.013	pg/m3

INTERNAL STANDARDS

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	80	50 - 120
13C-1,2,3,7,8-PeCDD	69	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 120
13C-OCDD	68	40 - 120
13C-2,3,7,8-TCDF	101	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	105	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

SURROGATE

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	116	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 017	Work Order #....:	L84Q31AA	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	2
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	516.37
Prep Batch #:	0299369	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 021	Work Order #....: L84Q71AA	Matrix....: AA
Date Sampled....: 10/23/10	Date Received....: 10/26/10	Dilution Factor....: 2
Prep Date....: 10/26/10	Analysis Date....: 11/03/10	Volume....: 584.29
Prep Batch #: 0299369	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.034	0.0072	pg/m3
Total TCDD	0.18	0.034	0.0039	pg/m3
1,2,3,7,8-PeCDD	ND	0.17	0.013	pg/m3
Total PeCDD	ND	0.17	0.043	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.17	0.0079	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.17	0.0099	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.17	0.012	pg/m3
Total HxCDD	ND	0.17	0.015	pg/m3
1,2,3,4,6,7,8-HpCDD	0.041 J	0.17	0.0075	pg/m3
Total HpCDD	0.041	0.17	0.0075	pg/m3
OCDD	0.055 J Q	0.34	0.011	pg/m3
2,3,7,8-TCDF	0.11 CON	0.034	0.0044	pg/m3
Total TCDF	3.1	0.034	0.0056	pg/m3
1,2,3,7,8-PeCDF	0.083 J Q	0.17	0.012	pg/m3
2,3,4,7,8-PeCDF	0.059 J	0.17	0.013	pg/m3
Total PeCDF	0.94	0.17	0.012	pg/m3
1,2,3,4,7,8-HxCDF	0.10 J	0.17	0.0075	pg/m3
1,2,3,6,7,8-HxCDF	0.073 J	0.17	0.0065	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.17	0.0084	pg/m3
1,2,3,7,8,9-HxCDF	0.016 J Q	0.17	0.0086	pg/m3
Total HxCDF	0.48	0.17	0.0075	pg/m3
1,2,3,4,6,7,8-HpCDF	0.26	0.17	0.012	pg/m3
1,2,3,4,7,8,9-HpCDF	0.11 J	0.17	0.014	pg/m3
Total HpCDF	0.53	0.17	0.013	pg/m3
OCDF	0.66	0.34	0.024	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	82	50 - 120
13C-1,2,3,7,8-PeCDD	72	50 - 120
13C-1,2,3,6,7,8-HxCDD	85	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 120
13C-OCDD	63	40 - 120
13C-2,3,7,8-TCDF	98	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	103	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	80	40 - 120
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	113	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 021	Work Order #....:	L84Q71AA	Matrix....:	AA
Date Sampled....:	10/23/10	Date Received....:	10/26/10	Dilution Factor....:	2
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	584.29
Prep Batch #:	0299369	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

QUALIFIERS

CON Confirmation analysis.
J Estimated Result.
Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 024
Date Sampled....: 10/23/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84RM1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 533.24
Method....: EPA-2 TO-9

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.038	0.0023	pg/m3
Total TCDD	ND	0.038	0.0086	pg/m3
1,2,3,7,8-PeCDD	ND	0.19	0.014	pg/m3
Total PeCDD	ND	0.19	0.014	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.19	0.011	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.19	0.0092	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.19	0.0098	pg/m3
Total HxCDD	ND	0.19	0.011	pg/m3
1,2,3,4,6,7,8-HpCDD	ND	0.19	0.017	pg/m3
Total HpCDD	ND	0.19	0.017	pg/m3
OCDD	ND	0.38	0.043	pg/m3
2,3,7,8-TCDF	0.026 Q J	0.038	0.0062	pg/m3
Total TCDF	0.097	0.038	0.0062	pg/m3
1,2,3,7,8-PeCDF	0.021 J Q	0.19	0.0079	pg/m3
2,3,4,7,8-PeCDF	ND	0.19	0.0086	pg/m3
Total PeCDF	0.075	0.19	0.0083	pg/m3
1,2,3,4,7,8-HxCDF	0.033 J Q	0.19	0.0060	pg/m3
1,2,3,6,7,8-HxCDF	0.017 J Q	0.19	0.0053	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.19	0.015	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.19	0.0094	pg/m3
Total HxCDF	0.099	0.19	0.0060	pg/m3
1,2,3,4,6,7,8-HpCDF	0.067 J	0.19	0.012	pg/m3
1,2,3,4,7,8,9-HpCDF	0.028 J Q	0.19	0.014	pg/m3
Total HpCDF	0.15	0.19	0.013	pg/m3
OCDF	0.22 Q J	0.38	0.021	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	78	50 - 120
13C-1,2,3,7,8-PeCDD	68	50 - 120
13C-1,2,3,6,7,8-HxCDD	84	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 120
13C-OCDD	65	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	94	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	118	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 024
Date Sampled....: 10/23/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84RM1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

Matrix....: AA
Dilution Factor....: 2
Volume....: 533.24
Method....: EPA-2 TO-9

QUALIFIERS

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

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J260000 - 369B
 Date Sampled....: 10/20/10
 Prep Date....: 10/26/10
 Prep Batch #: 0299369
 Initial Wgt/Vol....: 1 Sample

Work Order #....: L84XJ1AA
 Date Received....: 10/26/10
 Analysis Date....: 11/03/10
 Instrument ID....: 1D5
 Analyst ID....: Sonia Ouni

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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	20	2.5	pg
Total TCDD	ND	20	3.3	pg
1,2,3,7,8-PeCDD	ND	100	5.5	pg
Total PeCDD	ND	100	5.5	pg
1,2,3,4,7,8-HxCDD	ND	100	5.7	pg
1,2,3,6,7,8-HxCDD	ND	100	4.9	pg
1,2,3,7,8,9-HxCDD	ND	100	5.1	pg
Total HxCDD	ND	100	5.7	pg
1,2,3,4,6,7,8-HpCDD	ND	100	6.3	pg
Total HpCDD	ND	100	6.3	pg
OCDD	ND	200	7.0	pg
2,3,7,8-TCDF	ND	20	1.3	pg
Total TCDF	ND	20	2.1	pg
1,2,3,7,8-PeCDF	ND	100	5.3	pg
2,3,4,7,8-PeCDF	ND	100	5.8	pg
Total PeCDF	ND	100	5.8	pg
1,2,3,4,7,8-HxCDF	ND	100	2.1	pg
1,2,3,6,7,8-HxCDF	ND	100	1.8	pg
2,3,4,6,7,8-HxCDF	ND	100	2.1	pg
1,2,3,7,8,9-HxCDF	ND	100	2.4	pg
Total HxCDF	ND	100	2.4	pg
1,2,3,4,6,7,8-HpCDF	ND	100	4.5	pg
1,2,3,4,7,8,9-HpCDF	ND	100	5.4	pg
Total HpCDF	ND	100	5.4	pg
OCDF	ND	200	10.0	pg

INTERNAL STANDARDS

PERCENT RECOVERY

RECOVERY LIMITS

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

83
 77
 95
 75
 62
 100
 89
 104
 84

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

SURROGATE

PERCENT RECOVERY

RECOVERY LIMITS

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

106

50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J260000 - 369B
Date Sampled....: 10/20/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol....: 1 Sample

Work Order #....: L84XJ1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Instrument ID....: 1D5
Analyst ID....: Sonia Ouni

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

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0J260480	Work Order # ...:	L84XJ1AC-LCS	Matrix	AIR
LCS Lot-Sample# :	G0J260000 - 369		L84XJ1AD-LCSD		
Prep Date	10/26/10	Analysis Date ...:	11/03/10		
Prep Batch # ...:	0299369				
Dilution Factor :	2				
Analyst ID.....:	Sonia Ouni	Instrument ID...:	1D5	Method.....:	EPA-2 TO-9
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	400	524	pg	131 a	(70 - 130)		
	400	509	pg	127	(70 - 130)	2.9	(0 - 30)
1,2,3,7,8-PeCDD	2000	2720	pg	136 a	(70 - 130)		
	2000	2600	pg	130	(70 - 130)	4.4	(0 - 30)
1,2,3,4,7,8-HxCDD	2000	2890	pg	144 a	(70 - 130)		
	2000	2660	pg	133 a	(70 - 130)	8.3	(0 - 30)
1,2,3,6,7,8-HxCDD	2000	2660	pg	133 a	(70 - 130)		
	2000	2570	pg	128	(70 - 130)	3.5	(0 - 30)
1,2,3,7,8,9-HxCDD	2000	2780	pg	139 a	(70 - 130)		
	2000	2620	pg	131 a	(70 - 130)	6.1	(0 - 30)
1,2,3,4,6,7,8-HpCDD	2000	2530	pg	127	(70 - 130)		
	2000	2440	pg	122	(70 - 130)	3.8	(0 - 30)
OCDD	4000	5140	pg	129	(70 - 130)		
	4000	5120	pg	128	(70 - 130)	0.39	(0 - 30)
2,3,7,8-TCDF	400	543	pg	136 a	(70 - 130)		
	400	543	pg	136 a	(70 - 130)	0.0	(0 - 30)
1,2,3,7,8-PeCDF	2000	2640	pg	132 a	(70 - 130)		
	2000	2740	pg	137 a	(70 - 130)	3.7	(0 - 30)
2,3,4,7,8-PeCDF	2000	2610	pg	131 a	(70 - 130)		
	2000	2700	pg	135 a	(70 - 130)	3.2	(0 - 30)
1,2,3,4,7,8-HxCDF	2000	2700	pg	135 a	(70 - 130)		
	2000	2760	pg	138 a	(70 - 130)	2.3	(0 - 30)
1,2,3,6,7,8-HxCDF	2000	2480	pg	124	(70 - 130)		
	2000	2620	pg	131 a	(70 - 130)	5.4	(0 - 30)
2,3,4,6,7,8-HxCDF	2000	2490	pg	125	(70 - 130)		
	2000	2660	pg	133 a	(70 - 130)	6.6	(0 - 30)
1,2,3,7,8,9-HxCDF	2000	2380	pg	119	(70 - 130)		
	2000	2600	pg	130	(70 - 130)	9.0	(0 - 30)
1,2,3,4,6,7,8-HpCDF	2000	2550	pg	128	(70 - 130)		
	2000	2550	pg	127	(70 - 130)	0.20	(0 - 30)
1,2,3,4,7,8,9-HpCDF	2000	2500	pg	125	(70 - 130)		
	2000	2530	pg	127	(70 - 130)	1.2	(0 - 30)
OCDF	4000	5600	pg	140 a	(70 - 130)		
	4000	5590	pg	140 a	(70 - 130)	0.18	(0 - 30)
INTERNAL STANDARD				PERCENT RECOVERY	RECOVERY LIMITS		
13C-2,3,7,8-TCDD				77	(50 - 120)		
				92	(50 - 120)		
13C-1,2,3,7,8-PeCDD				66	(50 - 120)		
				76	(50 - 120)		
13C-1,2,3,6,7,8-HxCDD				83	(50 - 120)		

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J260480
 LCS Lot-Sample#: G0J260000 - 369

Work Order # ...: L84XJ1AC-LCS
 L84XJ1AD-LCSD

Matrix: AIR

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	89	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	71	(40 - 120)
	81	(40 - 120)
13C-OCDD	59	(40 - 120)
	66	(40 - 120)
13C-2,3,7,8-TCDF	97	(50 - 120)
	110	(50 - 120)
13C-1,2,3,7,8-PeCDF	82	(50 - 120)
	89	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	107	(50 - 120)
	100	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	82	(40 - 120)
	86	(40 - 120)

Notes:

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

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-10202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 003
Date Sampled....: 10/20/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84M11AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 565.82
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	13 J Q	20	1.0	0.023
Total TCDD	500	20		
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	230	100		
1,2,3,4,7,8-HxCDD	13 J Q	100	0.1	0.0023
1,2,3,6,7,8-HxCDD	25 J Q	100	0.1	0.0044
1,2,3,7,8,9-HxCDD	35 J	100	0.1	0.0062
Total HxCDD	190	100		
1,2,3,4,6,7,8-HpCDD	99 Q J	100	0.01	0.0017
Total HpCDD	140	100		
OCDD	100 J	200	0.0003	0.000053
2,3,7,8-TCDF	260 CON	20	0.1	0.046
Total TCDF	7100	20		
1,2,3,7,8-PeCDF	300	100	0.03	0.016
2,3,4,7,8-PeCDF	150	100	0.3	0.080
Total PeCDF	2800	100		
1,2,3,4,7,8-HxCDF	460	100	0.1	0.081
1,2,3,6,7,8-HxCDF	290	100	0.1	0.051
2,3,4,6,7,8-HxCDF	82 J	100	0.1	0.014
1,2,3,7,8,9-HxCDF	46 J	100	0.1	0.0081
Total HxCDF	2400	100		
1,2,3,4,6,7,8-HpCDF	1300	100	0.01	0.023
1,2,3,4,7,8,9-HpCDF	430	100	0.01	0.0076
Total HpCDF	2400	100		
OCDF	3300	200	0.0003	0.0017
Total TEQ Concentration				0.37

Northgate Environmental Management, Inc.

Sample ID: DW-1020210B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 003
Date Sampled....: 10/20/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84M11AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 565.82
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	83	50 - 120
13C-1,2,3,7,8-PeCDD	70	50 - 120
13C-1,2,3,6,7,8-HxCDD	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	74	40 - 120
13C-OCDD	61	40 - 120
13C-2,3,7,8-TCDF	100	50 - 120
13C-1,2,3,7,8-PeCDF	87	50 - 120
13C-1,2,3,4,7,8-HxCDF	102	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>
37C14-2,3,7,8-TCDD	123 *	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

- * Surrogate recovery is outside stated control limits.
- CON Confirmation analysis.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 006
 Date Sampled....: 10/20/10
 Prep Date....: 10/26/10
 Prep Batch #: 0299369
 Initial Wgt/Vol : 1 Sample

Work Order #....: L84M71AA
 Date Received....: 10/26/10
 Analysis Date....: 11/03/10
 Dilution Factor....: 2
 Analyst ID....: Sonia Ouni

Matrix....: AA
 Instrument ID....: 1D5
 Volume....: 671.43
 Units.....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	ND	100	0.01	0
Total HpCDD	ND	100		0
OCDD	ND	200	0.0003	0
2,3,7,8-TCDF	ND	20	0.1	0
Total TCDF	ND	20		0
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	ND	100		0
1,2,3,4,7,8-HxCDF	ND	100	0.1	0
1,2,3,6,7,8-HxCDF	ND	100	0.1	0
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
Total HxCDF	ND	100		0
1,2,3,4,6,7,8-HpCDF	17	100	0.01	0.00025
1,2,3,4,7,8,9-HpCDF	ND	100	0.01	0
Total HpCDF	17	100		
OCDF	ND	200	0.0003	0
Total TEQ Concentration				0.00025

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 006
Date Sampled....: 10/20/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84M71AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 671.43
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	84	50 - 120
13C-1,2,3,7,8-PeCDD	75	50 - 120
13C-1,2,3,6,7,8-HxCDD	89	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 120
13C-OCDD	63	40 - 120
13C-2,3,7,8-TCDF	100	50 - 120
13C-1,2,3,7,8-PeCDF	86	50 - 120
13C-1,2,3,4,7,8-HxCDF	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	122 *	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 007
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84NE1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 553.12
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	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	ND	100	0.01	0
Total HpCDD	ND	100		0
OCDD	27	J Q	200	0.0003
2,3,7,8-TCDF	9.5	CON	20	0.1
Total TCDF	120		20	
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	ND	100		0
1,2,3,4,7,8-HxCDF	15	J	100	0.1
1,2,3,6,7,8-HxCDF	7.1	J Q	100	0.1
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
Total HxCDF	45		100	
1,2,3,4,6,7,8-HpCDF	33	J	100	0.01
1,2,3,4,7,8,9-HpCDF	ND	100	0.01	0
Total HpCDF	49		100	
OCDF	79	J Q	200	0.0003
Total TEQ Concentration				0.0064

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 007
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84NE1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 553.12
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	83	50 - 120
13C-1,2,3,7,8-PeCDD	68	50 - 120
13C-1,2,3,6,7,8-HxCDD	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	76	40 - 120
13C-OCDD	61	40 - 120
13C-2,3,7,8-TCDF	103	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	108	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	112	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.

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

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 009
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84NP1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 552.29
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	70	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	ND	100	0.01	0
Total HpCDD	ND	100		0
OCDD	ND	200	0.0003	0
2,3,7,8-TCDF	67	CON	0.1	0.012
Total TCDF	1700	20		
1,2,3,7,8-PeCDF	37	J Q	0.03	0.0020
2,3,4,7,8-PeCDF	24	J	0.3	0.013
Total PeCDF	450	100		
1,2,3,4,7,8-HxCDF	44	J Q	0.1	0.0080
1,2,3,6,7,8-HxCDF	24	J	0.1	0.0043
2,3,4,6,7,8-HxCDF	9.7	J Q	0.1	0.0018
1,2,3,7,8,9-HxCDF	5.3	J Q	0.1	0.00096
Total HxCDF	190	100		
1,2,3,4,6,7,8-HpCDF	67	Q J	0.01	0.0012
1,2,3,4,7,8,9-HpCDF	20	J Q	0.01	0.00036
Total HpCDF	130	100		
OCDF	170	J	0.0003	0.000092
Total TEQ Concentration				0.044

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 009
Date Sampled....: 10/21/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84NP1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 552.29
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	70	50 - 120
13C-1,2,3,6,7,8-HxCDD	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	101	50 - 120
13C-1,2,3,7,8-PeCDF	83	50 - 120
13C-1,2,3,4,7,8-HxCDF	105	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	111	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.

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

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 013
Date Sampled....: 10/22/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84N61AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 530.07
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	15 Q J	20	1.0	0.028
Total TCDD	300	20		
1,2,3,7,8-PeCDD	12 J Q	100	1.0	0.023
Total PeCDD	160	100		
1,2,3,4,7,8-HxCDD	11 J Q	100	0.1	0.0021
1,2,3,6,7,8-HxCDD	21 J	100	0.1	0.0040
1,2,3,7,8,9-HxCDD	28 J	100	0.1	0.0053
Total HxCDD	180	100		
1,2,3,4,6,7,8-HpCDD	78 J	100	0.01	0.0015
Total HpCDD	120	100		
OCDD	120 J	200	0.0003	0.000068
2,3,7,8-TCDF	310 CON	20	0.1	0.058
Total TCDF	6600	20		
1,2,3,7,8-PeCDF	370	100	0.03	0.021
2,3,4,7,8-PeCDF	150	100	0.3	0.085
Total PeCDF	2500	100		
1,2,3,4,7,8-HxCDF	420	100	0.1	0.079
1,2,3,6,7,8-HxCDF	280	100	0.1	0.053
2,3,4,6,7,8-HxCDF	72 J	100	0.1	0.014
1,2,3,7,8,9-HxCDF	50 Q J	100	0.1	0.0094
Total HxCDF	2000	100		
1,2,3,4,6,7,8-HpCDF	1100	100	0.01	0.021
1,2,3,4,7,8,9-HpCDF	430	100	0.01	0.0081
Total HpCDF	2200	100		
OCDF	3000	200	0.0003	0.0017
Total TEQ Concentration				0.41

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 013
Date Sampled....: 10/22/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84N61AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 530.07
Units....: pg/m3

INTERNAL STANDARDS

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	89	50 - 120
13C-1,2,3,7,8-PeCDD	75	50 - 120
13C-1,2,3,6,7,8-HxCDD	89	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	81	40 - 120
13C-OCDD	76	40 - 120
13C-2,3,7,8-TCDF	104	50 - 120
13C-1,2,3,7,8-PeCDF	87	50 - 120
13C-1,2,3,4,7,8-HxCDF	106	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

SURROGATE

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	114	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.

CON Confirmation analysis.
J Estimated Result.
Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 017
 Date Sampled....: 10/22/10
 Prep Date....: 10/26/10
 Prep Batch #: 0299369
 Initial Wgt/Vol : 1 Sample

Work Order #....: L84Q31AA
 Date Received....: 10/26/10
 Analysis Date....: 11/03/10
 Dilution Factor....: 2
 Analyst ID....: Sonia Ouni

Matrix....: AA
 Instrument ID....: 1D5
 Volume....: 516.37
 Units.....: pg/m3

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	ND		100		0
1,2,3,4,6,7,8-HpCDD	ND		100	0.01	0
Total HpCDD	ND		100		0
OCDD	ND		200	0.0003	0
2,3,7,8-TCDF	8.5	J Q	20	0.1	0.0016
Total TCDF	22		20		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	ND		100		0
1,2,3,4,7,8-HxCDF	9.4	J Q	100	0.1	0.0018
1,2,3,6,7,8-HxCDF	ND		100	0.1	0
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	9.4		100		
1,2,3,4,6,7,8-HpCDF	11	J Q	100	0.01	0.00021
1,2,3,4,7,8,9-HpCDF	ND		100	0.01	0
Total HpCDF	11		100		
OCDF	37	J	200	0.0003	0.000021
Total TEQ Concentration					0.0036

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 017
Date Sampled....: 10/22/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84Q31AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 516.37
Units.....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	80	50 - 120
13C-1,2,3,7,8-PeCDD	69	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 120
13C-OCDD	68	40 - 120
13C-2,3,7,8-TCDF	101	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	105	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	116	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.

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

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J260480 - 021	Work Order #....:	L84Q71AA	Matrix....:	AA
Date Sampled....:	10/23/10	Date Received....:	10/26/10	Instrument ID....:	1D5
Prep Date....:	10/26/10	Analysis Date....:	11/03/10	Volume....:	584.29
Prep Batch #:	0299369	Dilution Factor....:	2	Units....:	pg/m3
Initial Wgt/Vol :	1 Sample	Analyst ID....:	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	100	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	24 J	100	0.01	0.00041
Total HpCDD	24	100		
OCDD	32 J Q	200	0.0003	0.000016
2,3,7,8-TCDF	62 CON	20	0.1	0.011
Total TCDF	1800	20		
1,2,3,7,8-PeCDF	48 J Q	100	0.03	0.0025
2,3,4,7,8-PeCDF	34 J	100	0.3	0.017
Total PeCDF	550	100		
1,2,3,4,7,8-HxCDF	61 J	100	0.1	0.010
1,2,3,6,7,8-HxCDF	42 J	100	0.1	0.0072
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	9.5 J Q	100	0.1	0.0016
Total HxCDF	280	100		
1,2,3,4,6,7,8-HpCDF	150	100	0.01	0.0026
1,2,3,4,7,8,9-HpCDF	65 J	100	0.01	0.0011
Total HpCDF	310	100		
OCDF	390	200	0.0003	0.00020
Total TEQ Concentration				0.054

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 021
Date Sampled....: 10/23/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84Q71AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 584.29
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	82	50 - 120
13C-1,2,3,7,8-PeCDD	72	50 - 120
13C-1,2,3,6,7,8-HxCDD	85	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 120
13C-OCDD	63	40 - 120
13C-2,3,7,8-TCDF	98	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	103	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	80	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	113	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.

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

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 024
 Date Sampled....: 10/23/10
 Prep Date....: 10/26/10
 Prep Batch #: 0299369
 Initial Wgt/Vol : 1 Sample

Work Order #....: L84RM1AA
 Date Received....: 10/26/10
 Analysis Date....: 11/03/10
 Dilution Factor....: 2
 Analyst ID....: Sonia Ouni

Matrix....: AA
 Instrument ID....: 1D5
 Volume....: 533.24
 Units.....: pg/m3

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	ND		100		0
1,2,3,4,6,7,8-HpCDD	ND		100	0.01	0
Total HpCDD	ND		100		0
OCDD	ND		200	0.0003	0
2,3,7,8-TCDF	14	Q J	20	0.1	0.0026
Total TCDF	52		20		
1,2,3,7,8-PeCDF	11	J Q	100	0.03	0.00062
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	40		100		
1,2,3,4,7,8-HxCDF	17	J Q	100	0.1	0.0032
1,2,3,6,7,8-HxCDF	9.0	J Q	100	0.1	0.0017
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	53		100		
1,2,3,4,6,7,8-HpCDF	36	J	100	0.01	0.00068
1,2,3,4,7,8,9-HpCDF	15	J Q	100	0.01	0.00028
Total HpCDF	79		100		
OCDF	120	Q J	200	0.0003	0.000068
Total TEQ Concentration					0.0091

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J260480 - 024
Date Sampled....: 10/23/10
Prep Date....: 10/26/10
Prep Batch #: 0299369
Initial Wgt/Vol : 1 Sample

Work Order #....: L84RM1AA
Date Received....: 10/26/10
Analysis Date....: 11/03/10
Dilution Factor....: 2
Analyst ID....: Sonia Ouni

Matrix....: AA
Instrument ID....: 1D5
Volume....: 533.24
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	78	50 - 120
13C-1,2,3,7,8-PeCDD	68	50 - 120
13C-1,2,3,6,7,8-HxCDD	84	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 120
13C-OCDD	65	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	94	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	118	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.

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

AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: DW-10202010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 002	Work Order #....:	L84MW1AC	Matrix....:	AA
Date Sampled....:	10/20/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	579.8
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	ND		0.0041	0.00085	ug/m3
Manganese	0.510	J	0.00207	0.000293	ug/m3

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 004	Work Order #....:	L84M31AC	Matrix....:	AA
Date Sampled....:	10/20/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	881.7
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	ND	0.0027	0.00056	ug/m3
Manganese	0.373 J	0.00136	0.000193	ug/m3

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 011	Work Order #....:	L84NW1AC	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	861.49
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	ND	0.0028	0.00057	ug/m3
Manganese	0.465 J	0.00139	0.000197	ug/m3

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 012	Work Order #....:	L84N21AC	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	869.97
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00059	B J	0.0028	0.00056	ug/m3
Manganese	1.14	J	0.00138	0.000195	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 015	Work Order #....:	L84QX1AC	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	815.49
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0040	J	0.0029	0.00060	ug/m3
Manganese	0.872	J	0.00147	0.000208	ug/m3

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 016	Work Order #....:	L84Q21AC	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/29/10	Analysis Date....:	11/01/10	Volume....:	797.48
Prep Batch #:	0302324	Instrument ID....:	M02	Method....:	SW846 6020
Initial Wgt/Vol....:	0.08333 L	Analyst ID....:	Brian Jones		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.00091 B J	0.0030	0.00061	ug/m3
Manganese	0.0841 J	0.00150	0.000213	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 020 Work Order #....: L84Q61AC Matrix....: AA
Date Sampled....: 10/23/10 Date Received....: 10/26/10 Dilution Factor....: 1
Prep Date....: 10/29/10 Analysis Date....: 11/01/10 Volume....: 905.02
Prep Batch #: 0302324 Instrument ID....: M02 Method....: SW846 6020
Initial Wgt/Vol....: 0.08333 L Analyst ID....: Brian Jones

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0013	B J	0.0027	0.00054	ug/m3
Manganese	1.01	J	0.00133	0.000188	ug/m3

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Compounds

Lot - Sample #....: G0J260480 - 023 Work Order #....: L84RC1AC Matrix....: AA
Date Sampled....: 10/23/10 Date Received....: 10/26/10 Dilution Factor....: 1
Prep Date....: 10/29/10 Analysis Date....: 11/01/10 Volume....: 836.27
Prep Batch #: 0302324 Instrument ID....: M02 Method....: SW846 6020
Initial Wgt/Vol....: 0.08333 L Analyst ID....: Brian Jones

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.0010 B J	0.0029	0.00059	ug/m3
Manganese	0.496 J	0.00143	0.000203	ug/m3

QUALIFIERS

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

QC DATA ASSOCIATION SUMMARY

G0J260480

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>
002	AA	SW846 6020		0302324	
004	AA	SW846 6020		0302324	
011	AA	SW846 6020		0302324	
012	AA	SW846 6020		0302324	
015	AA	SW846 6020		0302324	
016	AA	SW846 6020		0302324	
020	AA	SW846 6020		0302324	
023	AA	SW846 6020		0302324	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J290000 - 324B	Work Order #....: L9A3T1AA	Matrix....: AIR
Date Sampled....: 10/20/10	Date Received....: 10/26/10	Dilution Factor....: 1
Prep Date....: 10/29/10	Analysis Date....: 11/01/10	Volume....: 0
Prep Batch #: 0302324	Instrument ID....: M02	Method....: SW846 6020
Initial Wgt/Vol....: 0.08333 L	Analyst ID....: Brian Jones	

<u>PARAMETER</u>	<u>RESULT</u>		<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Arsenic	0.62	B	2.4	0.49	ug
Manganese	0.17	B	1.2	0.17	ug

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J260480	Work Order # ...: L9A3T1AD-LCS	Matrix : AIR
LCS Lot-Sample# : G0J290000 - 324	L9A3T1AE-LCSD	
Prep Date : 10/29/10	Analysis Date ..: 11/01/10	
Prep Batch # ...: 0302324		
Dilution Factor : 1		
Analyst ID.....: Brian Jones	Instrument ID.: M02	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	214	ug	89	(86 - 110)		
	240	217	ug	90	(86 - 110)	1.4	(0 - 15)
Manganese	240	220	ug	92	(88 - 110)		
	240	231	ug	96	(88 - 110)	4.9	(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-10202010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 002	Work Order #....:	L84MW1AA	Matrix....:	AA
Date Sampled....:	10/20/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	579.8
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:	0	Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000217	0.000000862	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10202010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 004	Work Order #....:	L84M31AA	Matrix....:	AA
Date Sampled....:	10/20/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	881.7
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000185	0.000000567	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 011	Work Order #....:	L84NW1AA	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	861.49
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000234	0.000000580	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10212010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 012	Work Order #....:	L84N21AA	Matrix....:	AA
Date Sampled....:	10/21/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	869.97
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000266	0.000000575	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 015	Work Order #....:	L84QX1AA	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	815.49
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000307	0.000000613	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10222010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 016	Work Order #....:	L84Q21AA	Matrix....:	AA
Date Sampled....:	10/22/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	797.48
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000130	0.000000627	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10232010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 020	Work Order #....:	L84Q61AA	Matrix....:	AA
Date Sampled....:	10/23/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	905.02
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.0000170	0.000000552	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10232010B

Trace Level Compounds

Lot - Sample #....:	G0J260480 - 023	Work Order #....:	L84RC1AA	Matrix....:	AA
Date Sampled....:	10/23/10	Date Received....:	10/26/10	Dilution Factor....:	1
Prep Date....:	10/28/10	Analysis Date....:	10/29/10	Volume....:	836.27
Prep Batch #:	0302353	Instrument ID....:	NO INST	Method....:	CFR50B APDX B
Initial Wgt/Vol....:		Analyst ID....:	erica X. larson		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Total Suspended Particulates	0.000032	0.00000060	--	g/m3

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0J260480

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>
002	AA	CFR50B APDX B		0302353	
004	AA	CFR50B APDX B		0302353	
011	AA	CFR50B APDX B		0302353	
012	AA	CFR50B APDX B		0302353	
015	AA	CFR50B APDX B		0302353	
016	AA	CFR50B APDX B		0302353	
020	AA	CFR50B APDX B		0302353	
023	AA	CFR50B APDX B		0302353	

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

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	
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	
28-OCT-2010	17:50	srs	L84XK1AA G0J260000-370B	S102807.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	18:15	srs	L8MWP1AC G0J180000-263C	S102808.D	30 g	1 mL	1	QL	
28-OCT-2010	18:40	srs	L8MWP1AD G0J180000-263L	S102809.D	30 g	1 mL	1	QL	
28-OCT-2010	19:05	srs	L8WGC1AA G0J210000-378B	S102810.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	19:30	srs	L84XK1AC G0J260000-370C	S102811.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	19:55	srs	L84XK1AD G0J260000-370L	S102812.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	20:20	srs	L84MH1AA G0J260480-1	S102813.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	20:45	srs	L84M61AA G0J260480-5	S102814.D	1000 Sa	1 mL	1	JZ	Srs b
28-OCT-2010	21:10	srs	L84NF1AA G0J260480-8	S102815.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	21:35	srs	L84NR1AA G0J260480-10	S102816.D	1000 Sa	1 mL	1	JZ	ISJ RI
28-OCT-2010	22:00	srs	L84PR1AA G0J260480-14	S102817.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	22:24	srs	L84Q41AA G0J260480-18	S102818.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	22:49	srs	L84Q51AA G0J260480-19	S102819.D	1000 Sa	1 mL	1	JZ	ISJ RI
28-OCT-2010	23:14	srs	L84Q91AA G0J260480-22	S102820.D	1000 Sa	1 mL	1	JZ	
28-OCT-2010	23:39	srs	L84XK1AA G0J260000-370B	S102821.D	1000 Sa	1 mL	1	JZ	Confirmation
29-OCT-2010	00:04	srs	L84MH1AA G0J260480-1	S102822.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	00:30	srs	L84M61AA G0J260480-5	S102823.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	00:55	srs	L84NF1AA G0J260480-8	S102824.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	01:19	srs	L84NR1AA G0J260480-10	S102825.D	1000 Sa	1 mL	1	JZ	ISJ RI
29-OCT-2010	01:44	srs	L84PR1AA G0J260480-14	S102826.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	02:09	srs	L84Q41AA G0J260480-18	S102827.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	02:34	srs	L84Q51AA G0J260480-19	S102828.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	02:59	srs	L84Q91AA G0J260480-22	S102829.D	1000 Sa	1 mL	1	JZ	

Instrument: SV5 _____

ICAL Date: 10/02/10 _____

DFTPP ID: DFT1028

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

Standard ID: HSL1028

Reviewer/Date: SA 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>N/A</u>	NA	<input checked="" type="checkbox"/>
Non-CCC \leq 50% D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

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

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

IV: AFCEE 3.1 and 4.0 QAPP Criteria

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

V: DOD QSM 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:

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

SH/ksno

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	RF50		CCAL	MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT		
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	AMOUNTS				CAL-AMT	ON-COL
			MASS	RT	EXP RT	REL RT			RESPONSE	( NG)	( 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-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

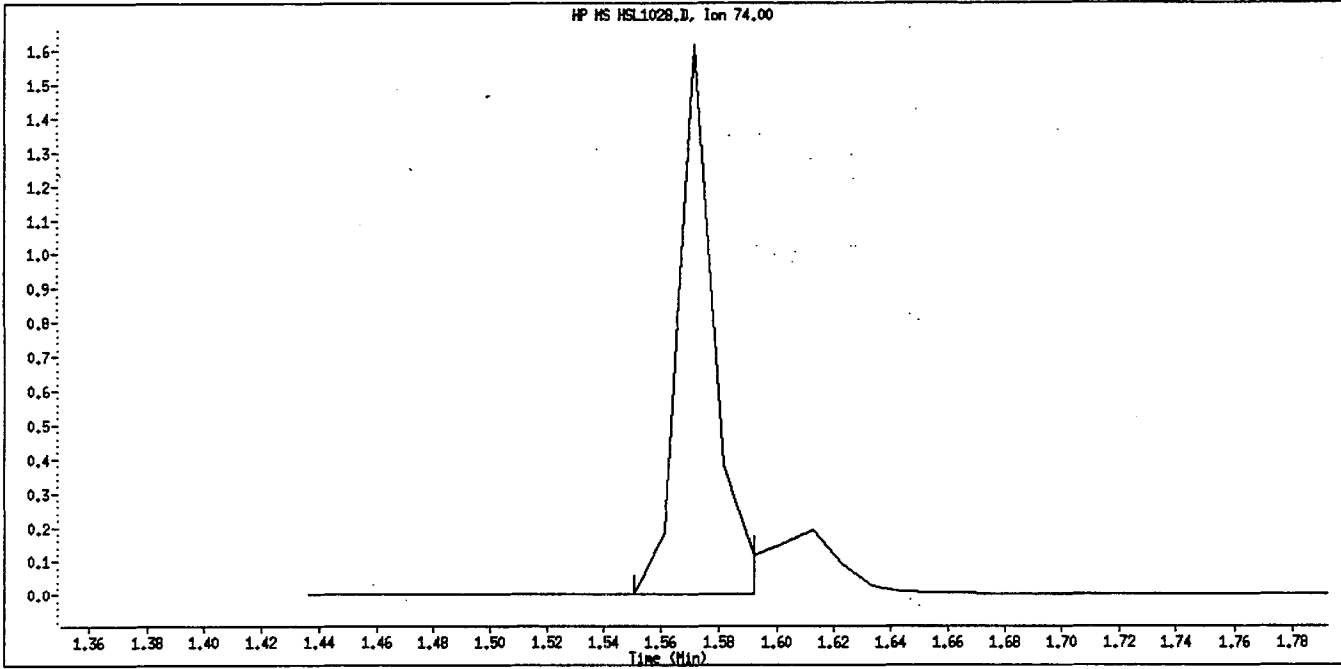
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy) methane	93	4.991	4.991	(0.954)	324247	50.0000	50.51
49 2,4-Dichlorophenol	162	5.084	5.084	(0.972)	231869	50.0000	52.03
50 Benzoic Acid	122	5.001	5.001	(0.956)	181630	50.0000	56.96
51 1,2,4-Trichlorobenzene	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)
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M 162 benzo b,k Fluoranthene Totals	252				1495501	50.0000	49.24 (A)

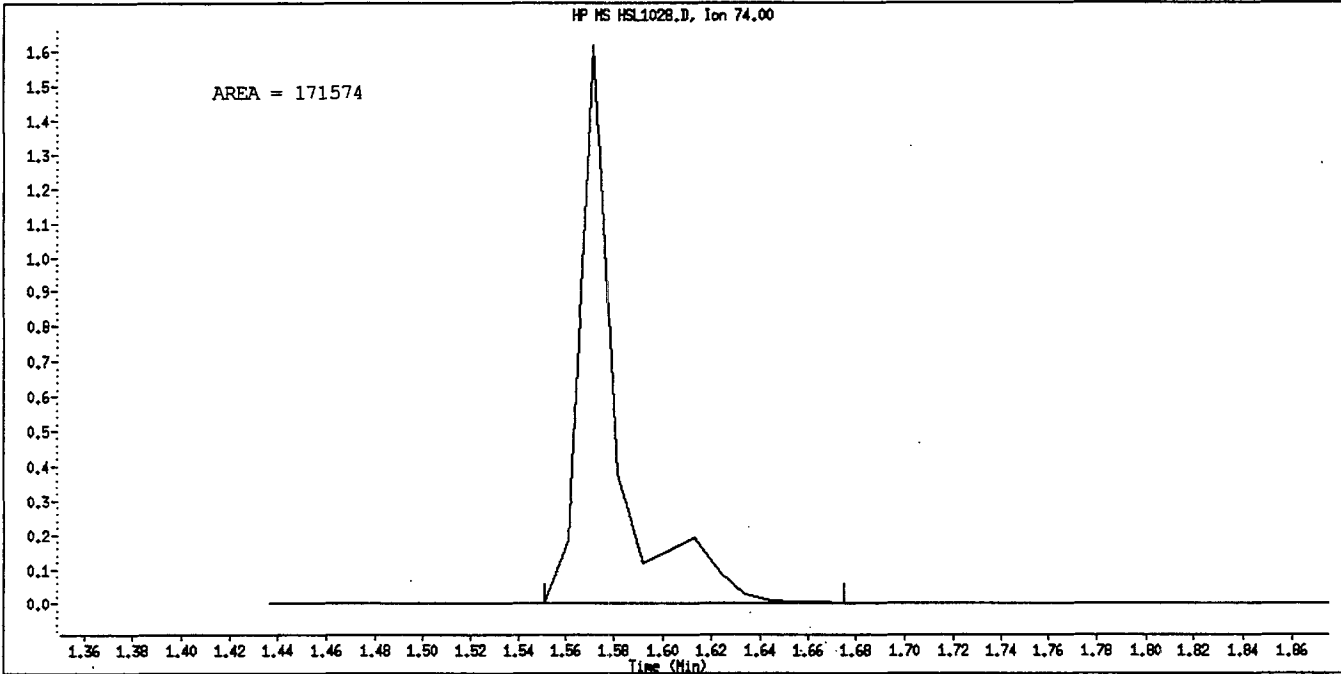
QC Flag Legend

- 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: sv5.1
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/ova~~ *js 10/28/10*
Manual Integration Reason: Poor Chromatography

js 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	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

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

Method File: \\SV5\C\chem\sv5.i\102810.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	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

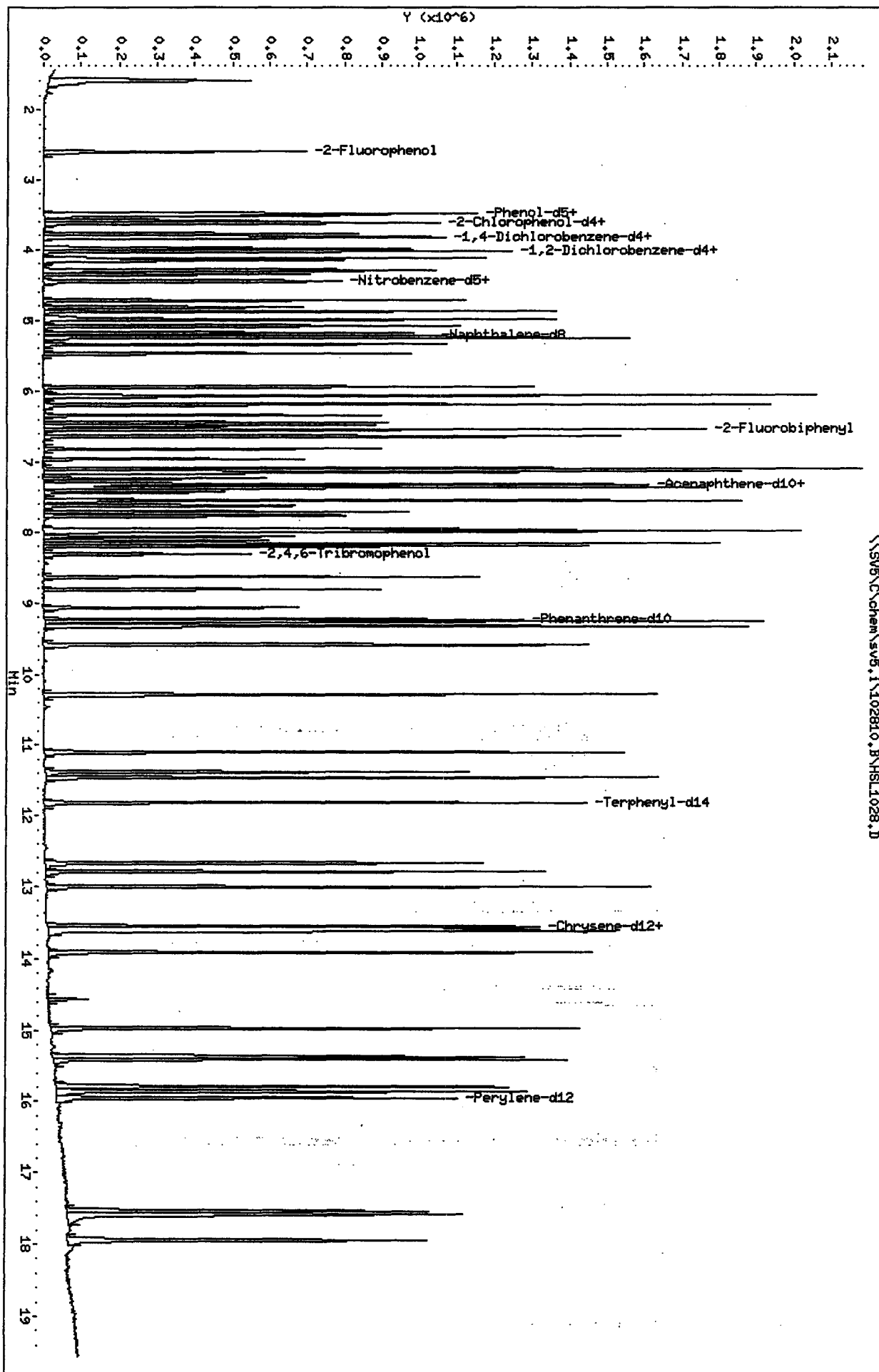
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.81	3.31	4.31	3.81	0.00
2 Naphthalene-d8	5.23	4.73	5.73	5.23	0.00
3 Acenaphthene-d10	7.32	6.82	7.82	7.32	0.00
4 Phenanthrene-d10	9.23	8.73	9.73	9.23	0.00
5 Chrysene-d12	13.57	13.07	14.07	13.57	0.00
6 Perylene-d12	15.94	15.44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

\\SVB\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

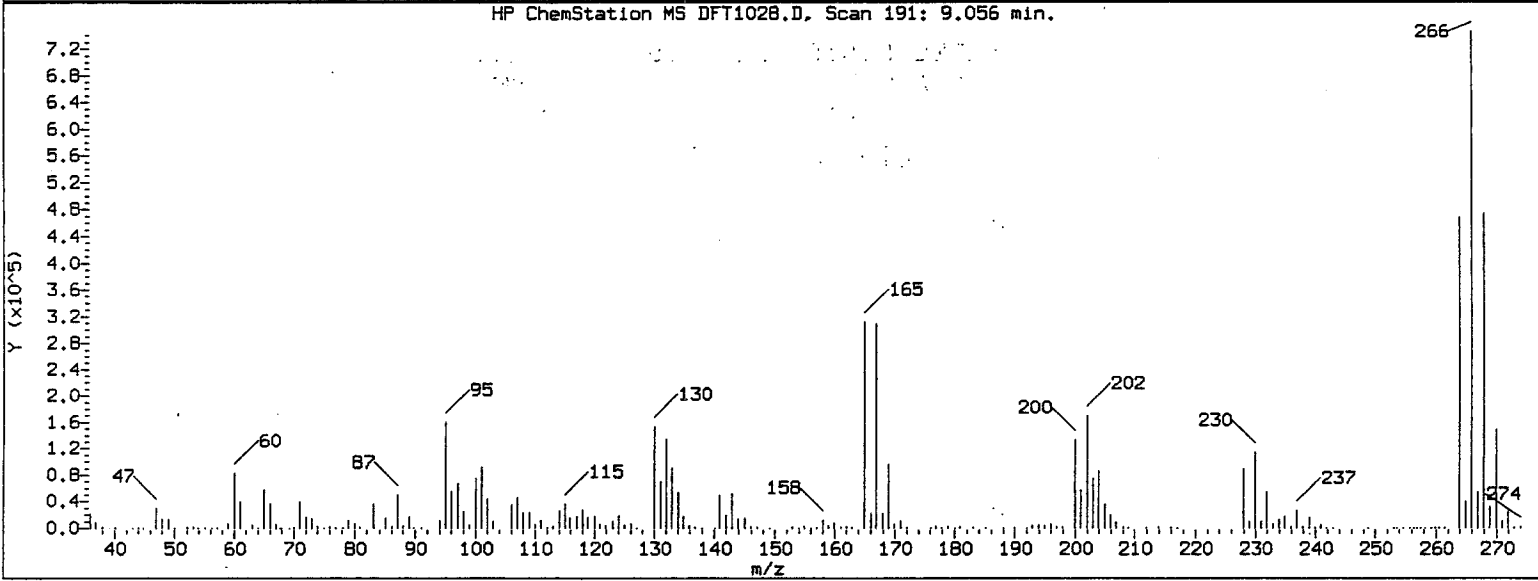
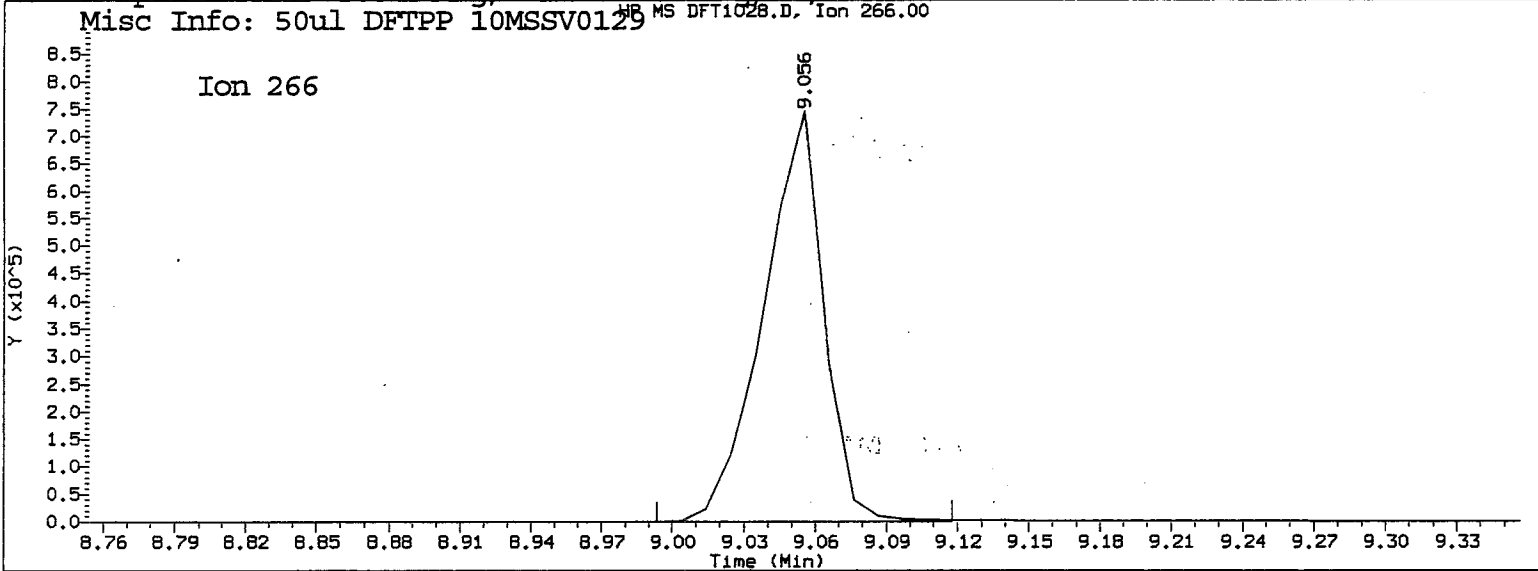
 *** PASSED ***

*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: DFPP 50ug/ml DFPP 50ug/ml;
Misc Info: 50ul DFPP 10MSSV0129 MS DFT1028.D, Ion 266.00



Pentachlorophenol

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

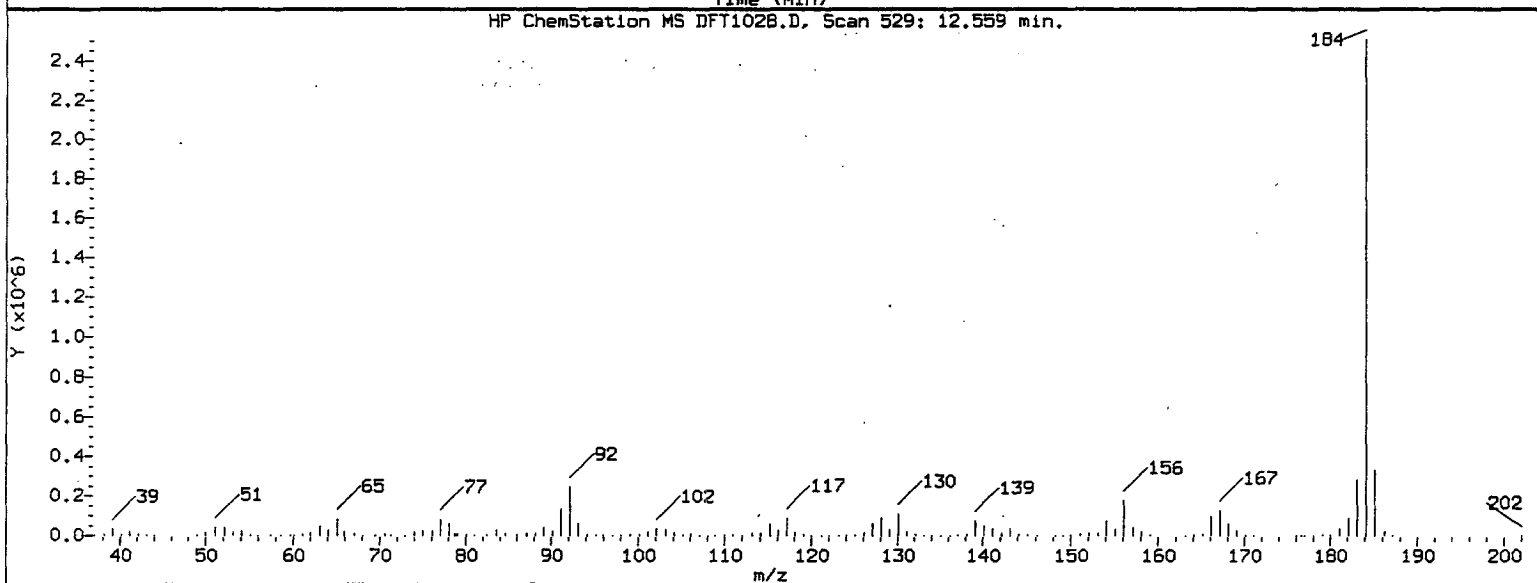
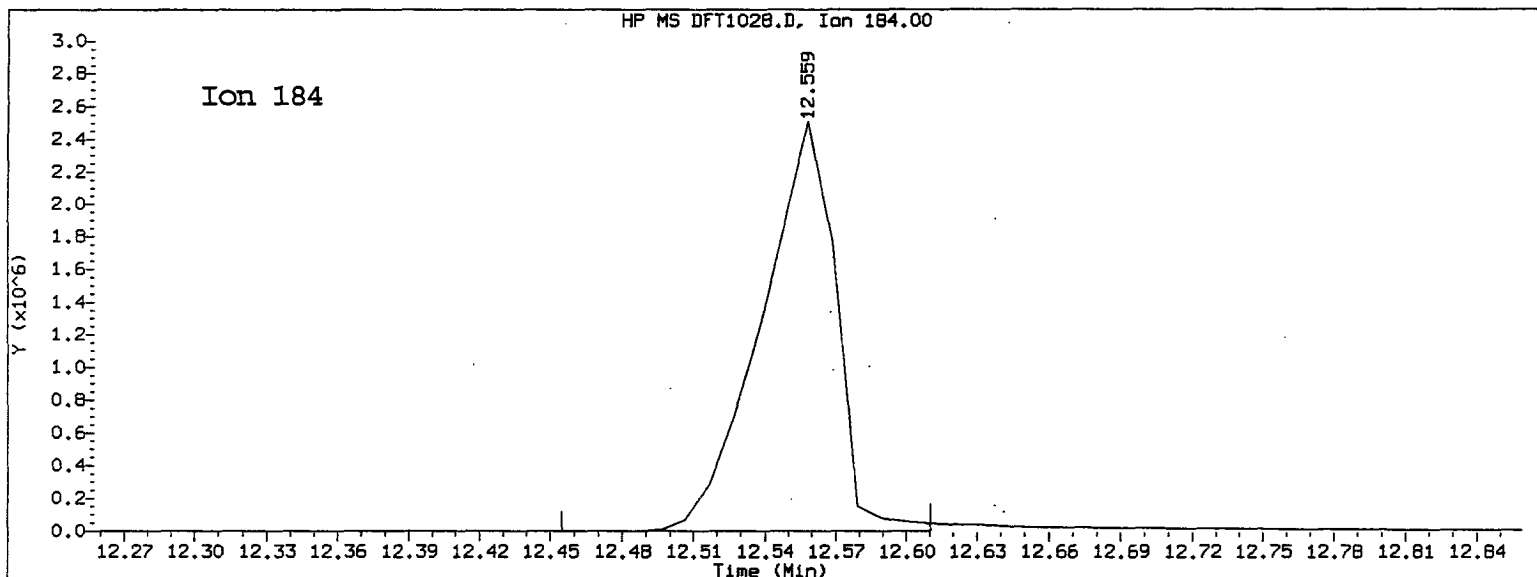
Time1 = 9.019789 Time2 = 9.0558 Time3 = 9.075005
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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

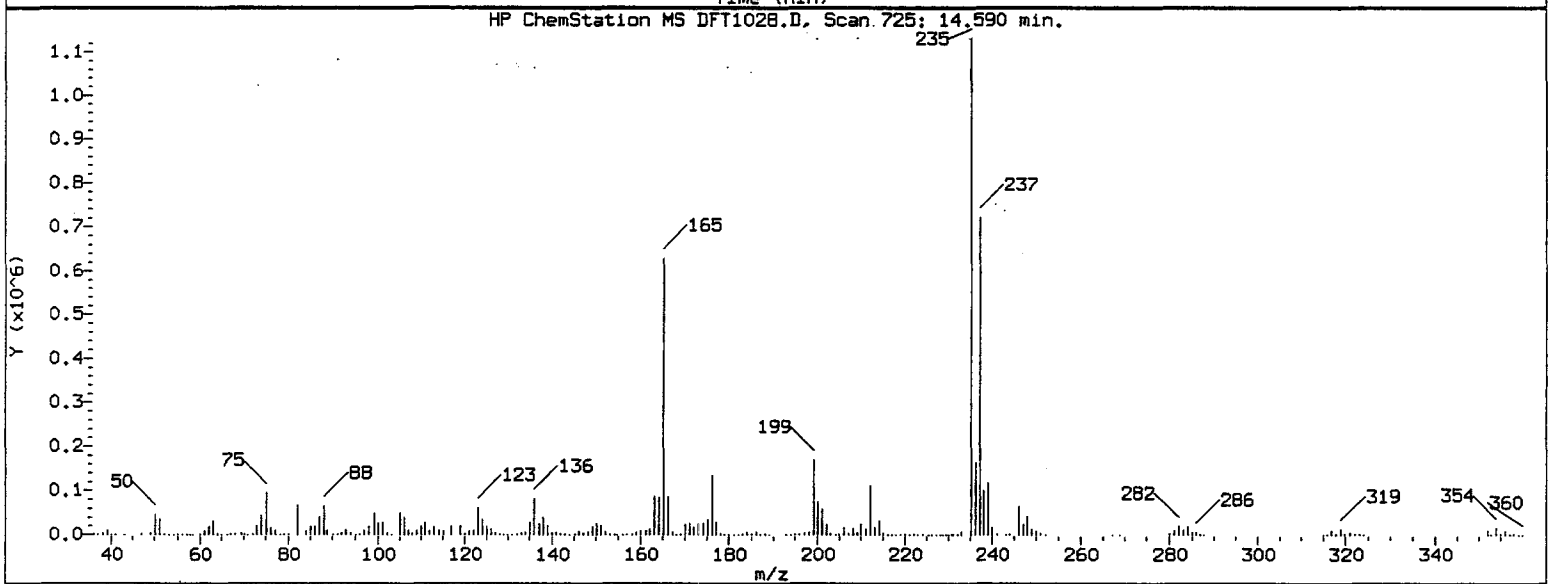
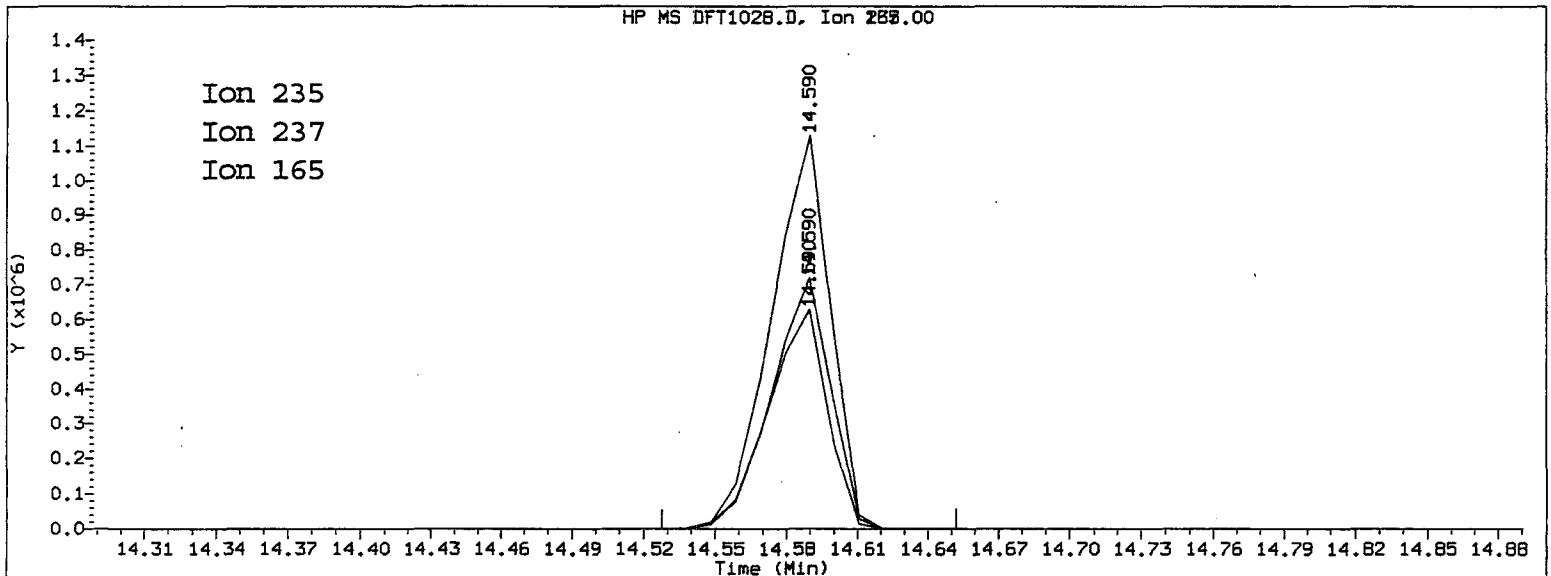
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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: DFIPP 50ug/ml DFIPP 50ug/ml;
Misc Info: 50ul DFIPP 10MSSV0129



4,4'-DDT

=====

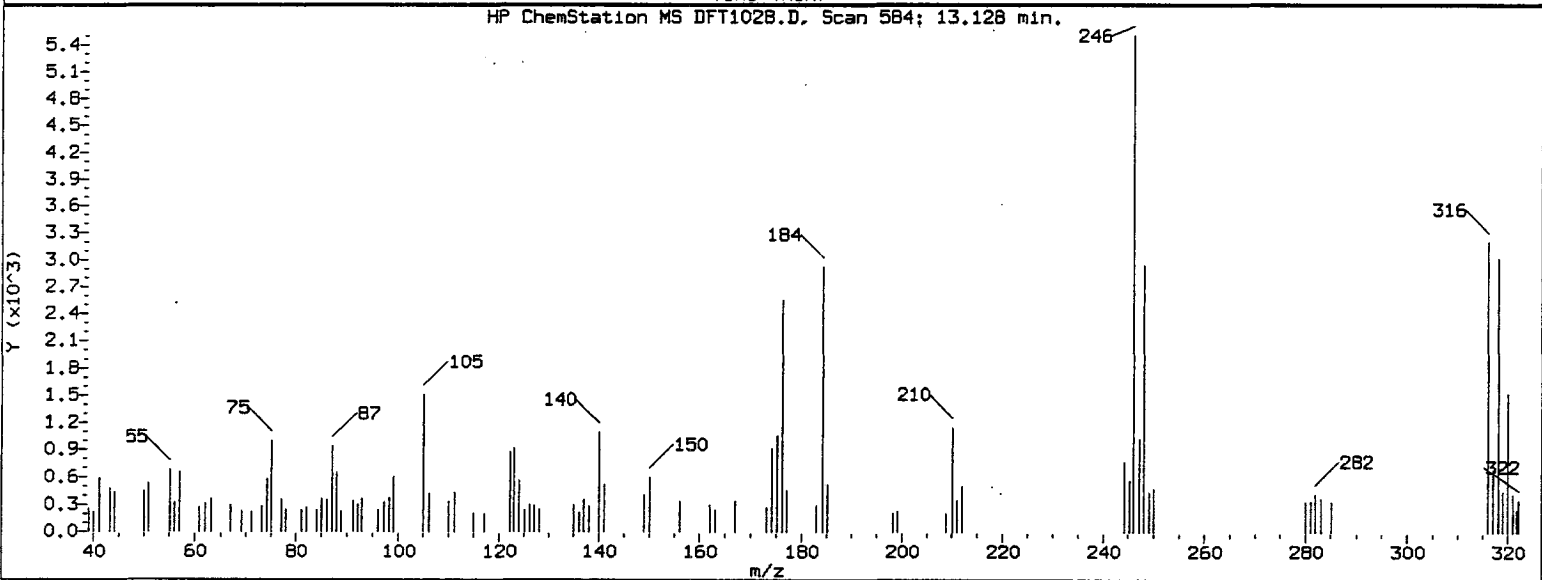
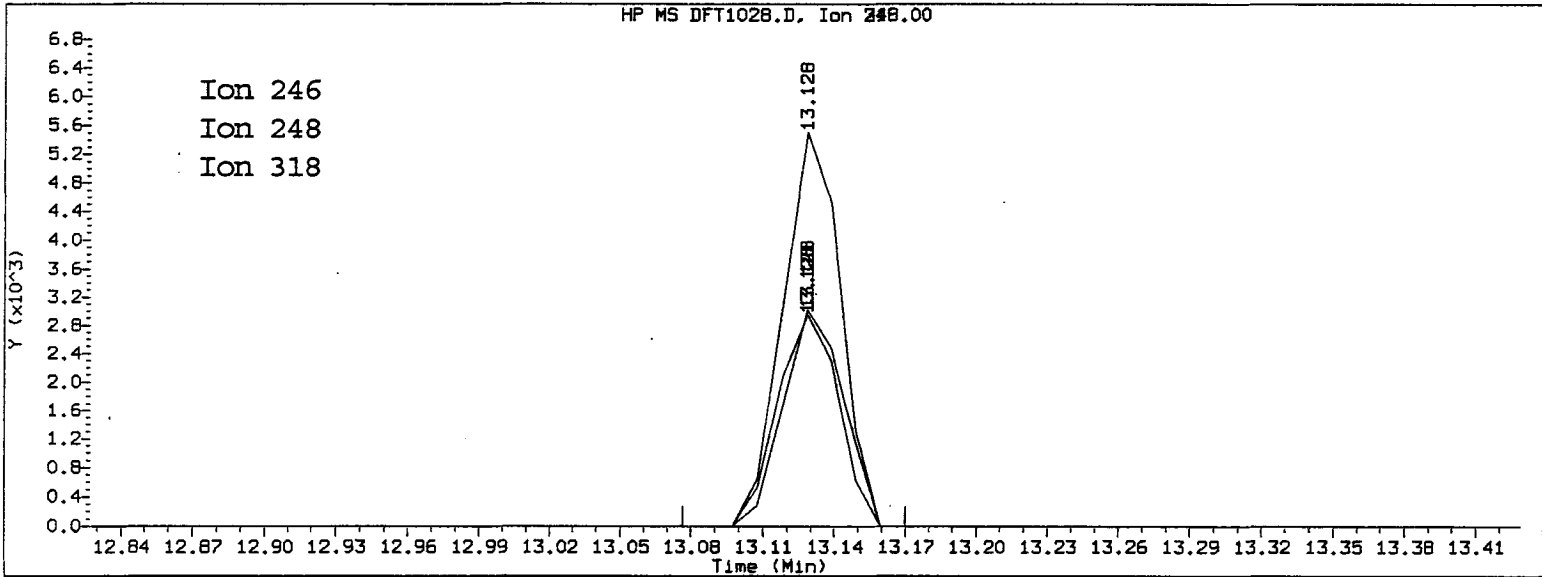
Exp. RT = 14.590

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: DFPP 50ug/ml DFPP 50ug/ml;
Misc Info: 50ul DFPP 10MSSV0129



4,4'-DDE

=====

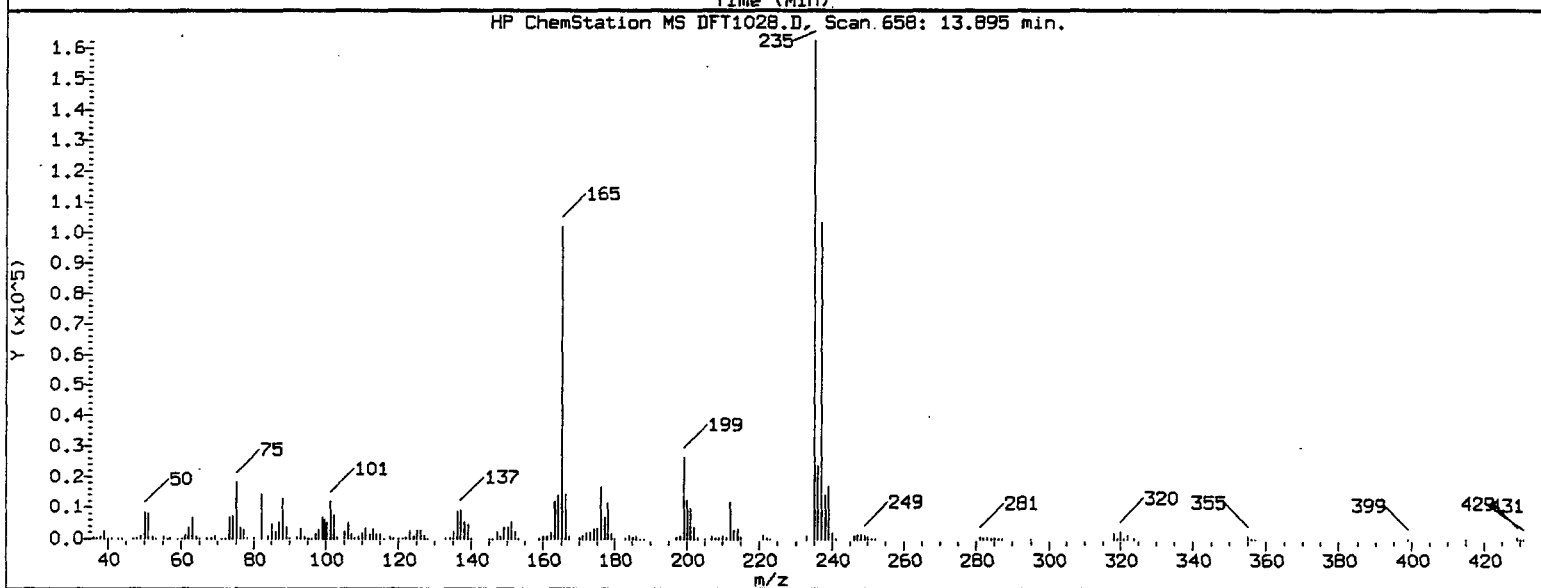
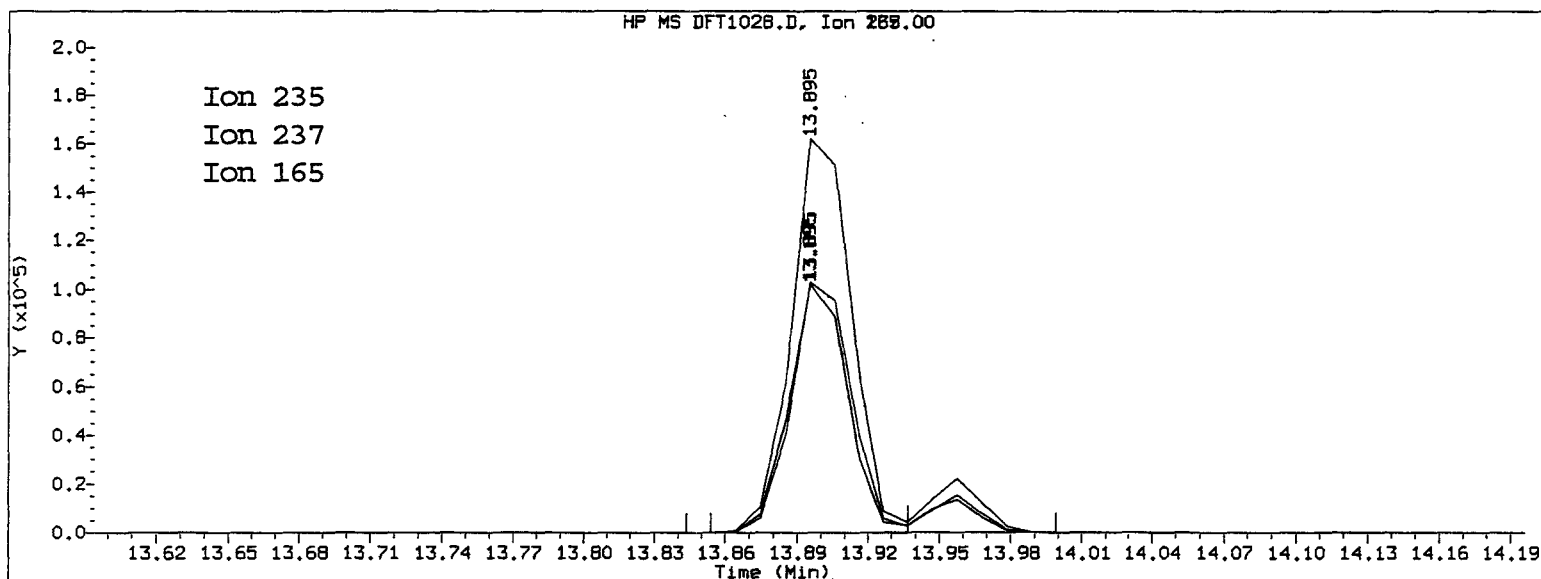
Exp. RT = 13.139

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



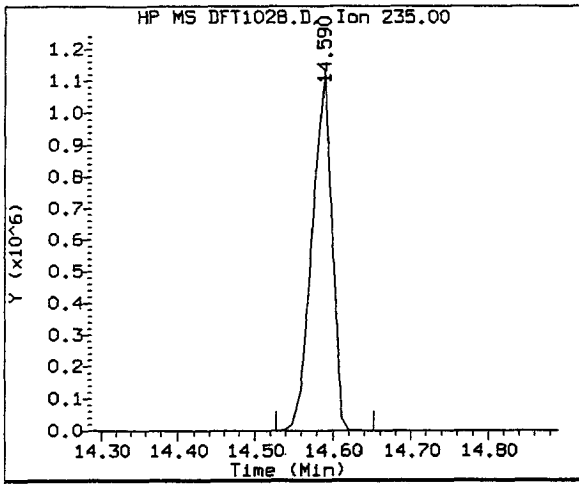
4,4'-DDD

=====

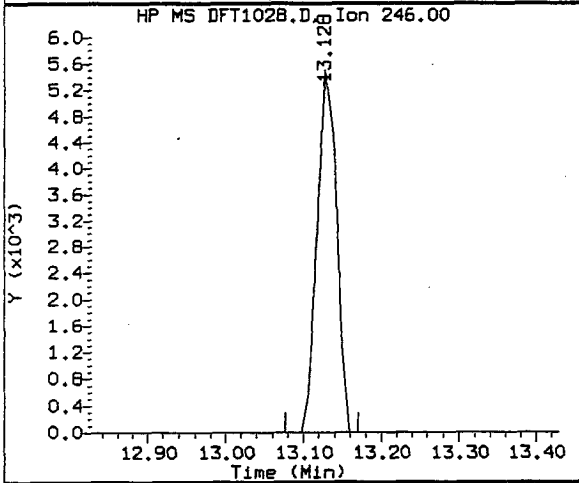
Exp. RT = 13.906

Found RT = 13.895

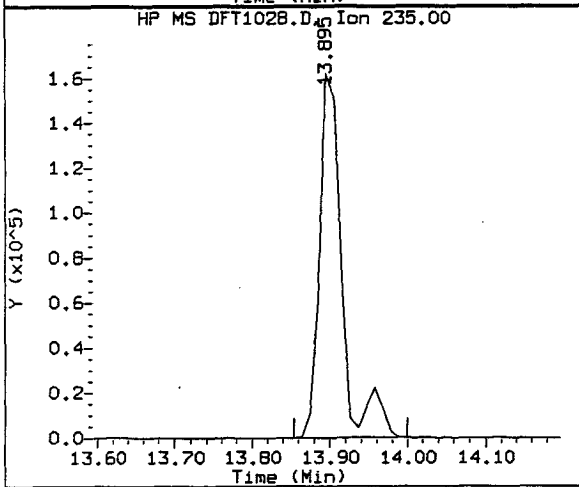
Mass	Area	Ratio
235	319750	100.00
237	182677	57.13
165	176106	55.08



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;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\102810.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	CON-COL		TARGET RANGE	RATIO	
					(ug/L)	FINAL (ug/L)			

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:

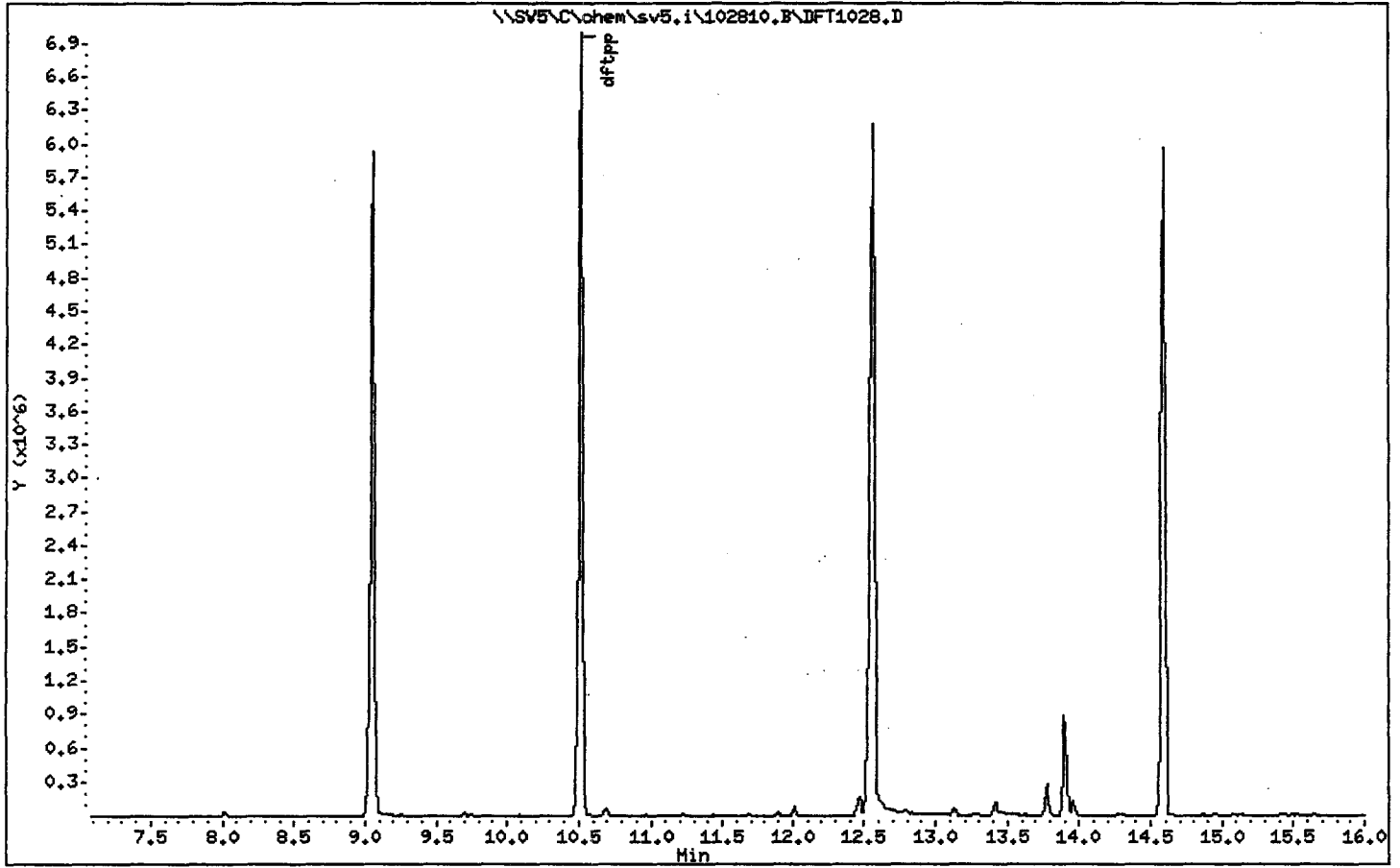
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: srs

Column phase:

Column diameter: 2.00



Date : 28-OCT-2010 12:46

Client ID:

Instrument: sv5.i

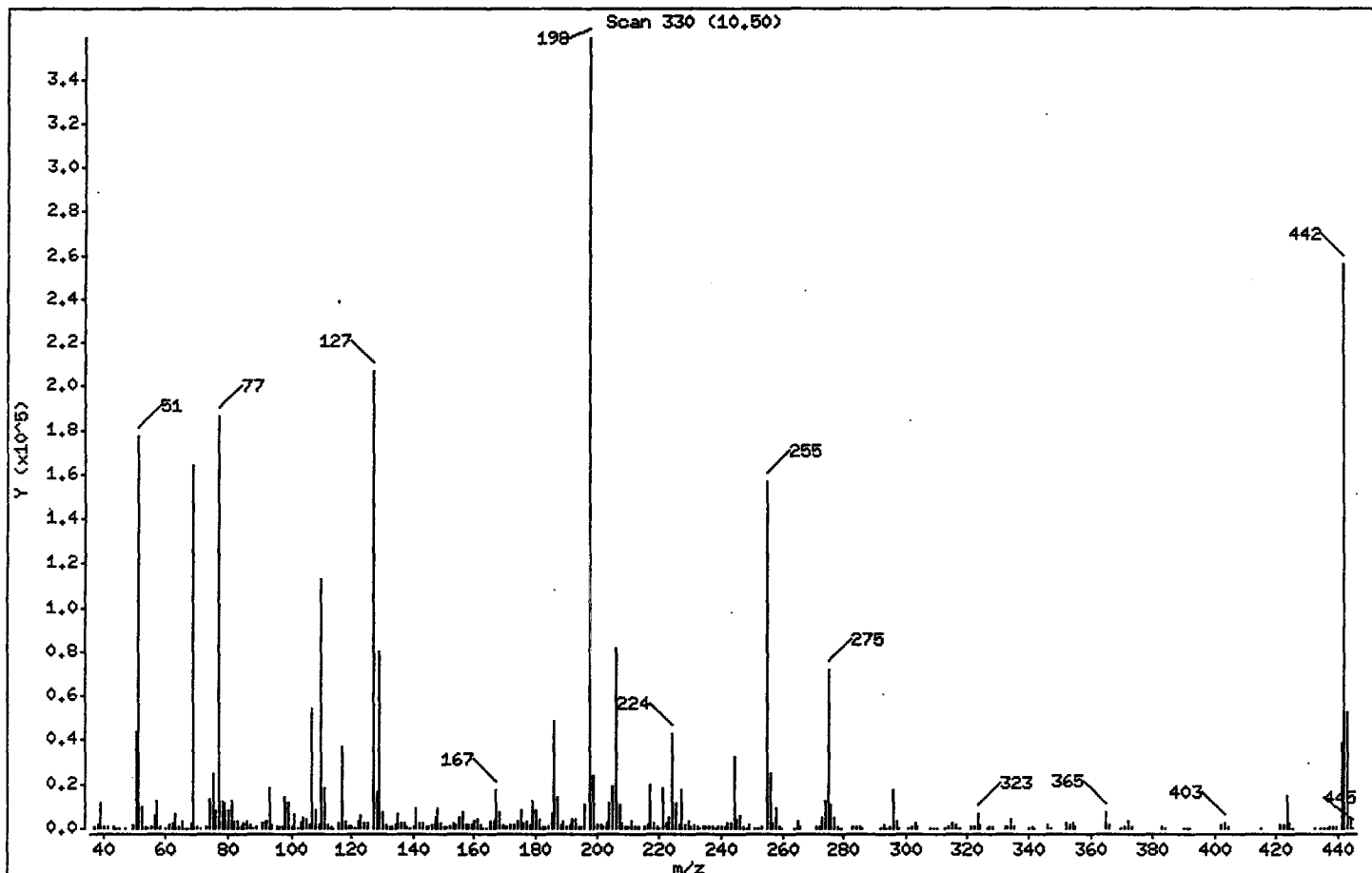
Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

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	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	596	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\Datafiles10\10OCT10\102810.B\S102807.D
 Lab Smp Id: L84XK1AA G0J260000- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 17:50
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AA G0J260000-370B;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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	CONCENTRATIONS						
			ON-COLUMN	FINAL					
MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(ug/L)			
* 1 1,4-Dichlorobenzene-d4	152		3.809	3.809	(1.000)	76568	40.0000	(Q)	
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	333880	40.0000		
* 3 Acenaphthene-d10	164		7.322	7.322	(1.000)	192114	40.0000		
* 4 Phenanthrene-d10	188		9.229	9.229	(1.000)	317352	40.0000		
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	331369	40.0000		
* 6 Perylene-d12	264		15.945	15.955	(1.000)	345207	40.0000		
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	148409	54.9893	54.99	
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	211034	62.1822	62.18	
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	49761	26.3882	26.39 (qR)	
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	82274	29.0935	29.09	
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	187968	30.3733	30.37	
\$ 13 2,4,6-Tribromophenol	330		8.317	8.317	(1.136)	76762	91.9519	91.95	
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.871)	255012	39.0698	39.07	
108 Hexachlorobenzene	284		Compound Not Detected.						

Handwritten: 11-9-10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84XK1AA G0J260000- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	54.99	54.99	41-105
\$ 8 Phenol-d5	100.0	62.18	62.18	43-122
\$ 10 1,2-Dichlorobenzen	50.00	26.39	52.78*	60-120
\$ 11 Nitrobenzene-d5	50.00	29.09	58.19	46-118
\$ 12 2-Fluorobiphenyl	50.00	30.37	60.75	58-105
\$ 13 2,4,6-Tribromophen	100.0	91.95	91.95	61-118
\$ 14 Terphenyl-d14	50.00	39.07	78.14	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102807.D
 Lab Smp Id: L84XK1AA G0J260000- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 17:50
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AA G0J260000-370B;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0299370;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: 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	3.809	3.809	(1.000)	76568	40.0000	(Q)
* 2 Naphthalene-d8		136	5.219	5.229	(1.000)	333880	40.0000	
* 3 Acenaphthene-d10		164	7.322	7.322	(1.000)	192114	40.0000	
* 4 Phenanthrene-d10		188	9.229	9.229	(1.000)	317352	40.0000	
* 5 Chrysene-d12		240	13.571	13.582	(1.000)	331369	40.0000	
* 6 Perylene-d12		264	15.945	15.955	(1.000)	345207	40.0000	
\$ 7 2-Fluorophenol		112	2.597	2.597	(0.682)	148409	54.9893	54.99
\$ 8 Phenol-d5		99	3.478	3.478	(0.913)	211034	62.1822	62.18
\$ 10 1,2-Dichlorobenzene-d4		152	4.006	4.006	(1.052)	49761	26.3882	26.39 (qR)
\$ 11 Nitrobenzene-d5		82	4.431	4.442	(0.849)	82274	29.0935	29.09
\$ 12 2-Fluorobiphenyl		172	6.535	6.535	(0.892)	187968	30.3733	30.37
\$ 13 2,4,6-Tribromophenol		330	8.317	8.317	(1.136)	76762	91.9519	91.95
\$ 14 Terphenyl-d14		244	11.820	11.820	(0.871)	255012	39.0698	39.07
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.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102807.D
 Lab Smp Id: L84XK1AA G0J260000-
 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;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	76568	-37.56
2 Naphthalene-d8	530514	265257	1061028	333880	-37.06
3 Acenaphthene-d10	282538	141269	565076	192114	-32.00
4 Phenanthrene-d10	462722	231361	925444	317352	-31.42
5 Chrysene-d12	435850	217925	871700	331369	-23.97
6 Perylene-d12	422284	211142	844568	345207	-18.25

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	-0.07

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

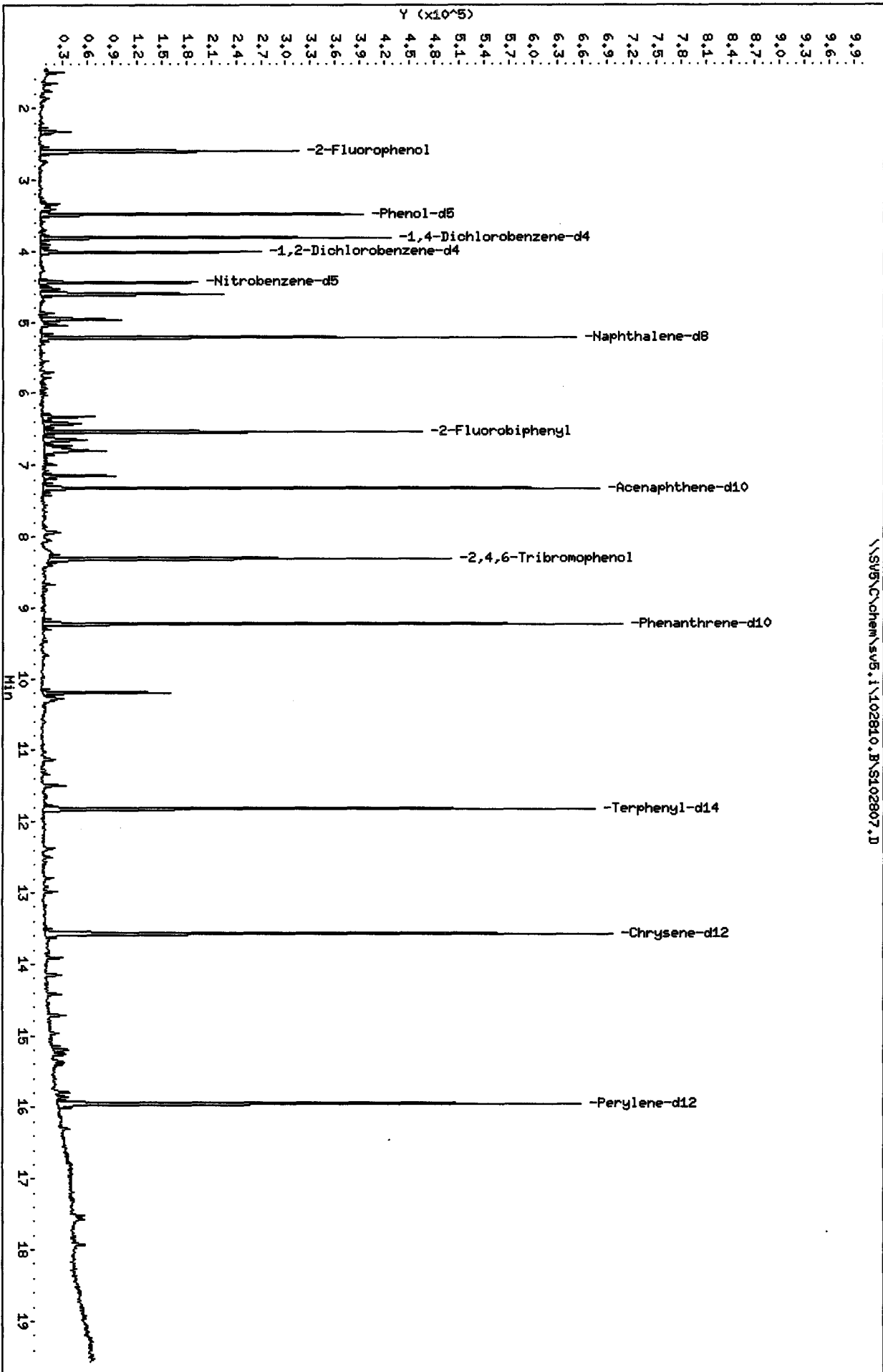
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84XK1AA G0J260000- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	54.99	54.99	41-105
\$ 8 Phenol-d5	100.0	62.18	62.18	43-122
\$ 10 1,2-Dichlorobenzen	100.0	26.39	26.39*	60-120
\$ 11 Nitrobenzene-d5	50.00	29.09	58.19	46-118
\$ 12 2-Fluorobiphenyl	50.00	30.37	60.75	58-105
\$ 13 2,4,6-Tribromophen	100.0	91.95	91.95	61-118
\$ 14 Terphenyl-d14	50.00	39.07	78.14	69-110

Data File: \\SV5\C\chem\sv5.1\102810.B\S102807.D
Date: 28-OCT-2010 17:50
Client ID: 0299370
Sample Info: L84KK1A G0J260000-370B01;110001;10000;5
Volume Injected (uL): 1.0
Column phase:

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

\\SV5\C\chem\sv5.1\102810.B\S102807.D



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102811.D
 Lab Smp Id: L84XK1AC G0J260000-
 Inj Date : 28-OCT-2010 19:30
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AC G0J260000-370C;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\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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	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)	92441	40.0000		
* 2 Naphthalene-d8		136	5.219	5.229	(1.000)	411815	40.0000		
* 3 Acenaphthene-d10		164	7.322	7.322	(1.000)	228625	40.0000		
* 4 Phenanthrene-d10		188	9.229	9.229	(1.000)	380085	40.0000		
* 5 Chrysene-d12		240	13.571	13.582	(1.000)	381110	40.0000		
* 6 Perylene-d12		264	15.944	15.955	(1.000)	387073	40.0000		
\$ 7 2-Fluorophenol		112	2.597	2.597	(0.682)	217573	66.7737	66.77	
\$ 8 Phenol-d5		99	3.478	3.478	(0.913)	298225	72.7847	72.78	
\$ 10 1,2-Dichlorobenzene-d4		152	Compound Not Detected.						
\$ 11 Nitrobenzene-d5		82	4.441	4.442	(0.851)	122518	35.1254	35.12	
\$ 12 2-Fluorobiphenyl		172	6.535	6.535	(0.892)	284387	38.6148	38.61	
\$ 13 2,4,6-Tribromophenol		330	8.317	8.317	(1.136)	92245	92.8522	92.85	
\$ 14 Terphenyl-d14		244	11.820	11.820	(0.871)	289959	38.6259	38.62	
108 Hexachlorobenzene		284	8.804	8.815	(0.954)	178901	86.3385	86.34	

Handwritten signature and date:
 11-9-10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84XK1AC G0J260000-
 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\Datafiles10\10OCT10\102810.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	86.34	86.34	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.77	66.77	41-105
\$ 8 Phenol-d5	100.0	72.78	72.78	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	35.12	70.25	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.61	77.23	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.85	92.85	61-118
\$ 14 Terphenyl-d14	50.00	38.62	77.25	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102811.D
 Lab Smp Id: L84XK1AC G0J260000-
 Inj Date : 28-OCT-2010 19:30
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AC G0J260000-370C;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\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: 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	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)	92441	40.0000		
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	411815	40.0000		
* 3 Acenaphthene-d10	164		7.322	7.322	(1.000)	228625	40.0000		
* 4 Phenanthrene-d10	188		9.229	9.229	(1.000)	380085	40.0000		
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	381110	40.0000		
* 6 Perylene-d12	264		15.944	15.955	(1.000)	387073	40.0000		
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	217573	66.7737	66.77	
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	298225	72.7847	72.78	
\$ 10 1,2-Dichlorobenzene-d4	152		3.809	4.006	(1.000)	92440	40.6035	40.60 (qR)	
\$ 11 Nitrobenzene-d5	82		4.441	4.442	(0.851)	122518	35.1254	35.12	
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	284387	38.6148	38.61	
\$ 13 2,4,6-Tribromophenol	330		8.317	8.317	(1.136)	92245	92.8522	92.85	
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.871)	289959	38.6259	38.62	
108 Hexachlorobenzene	284		8.804	8.815	(0.954)	178901	86.3385	86.34	

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102811.D
 Lab Smp Id: L84XK1AC G0J260000-
 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;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 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	92441	-24.61
2 Naphthalene-d8	530514	265257	1061028	411815	-22.37
3 Acenaphthene-d10	282538	141269	565076	228625	-19.08
4 Phenanthrene-d10	462722	231361	925444	380085	-17.86
5 Chrysene-d12	435850	217925	871700	381110	-12.56
6 Perylene-d12	422284	211142	844568	387073	-8.34

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	15.94	-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: L84XK1AC G0J260000-
 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\102810.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	86.34	86.34	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.77	66.77	41-105
\$ 8 Phenol-d5	100.0	72.78	72.78	43-122
\$ 10 1,2-Dichlorobenzen	100.0	40.60	40.60*	60-120
\$ 11 Nitrobenzene-d5	50.00	35.12	70.25	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.61	77.23	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.85	92.85	61-118
\$ 14 Terphenyl-d14	50.00	38.62	77.25	69-110

Date: 28-OCT-2010 19:30

Client ID:

Instrument: sv5.1

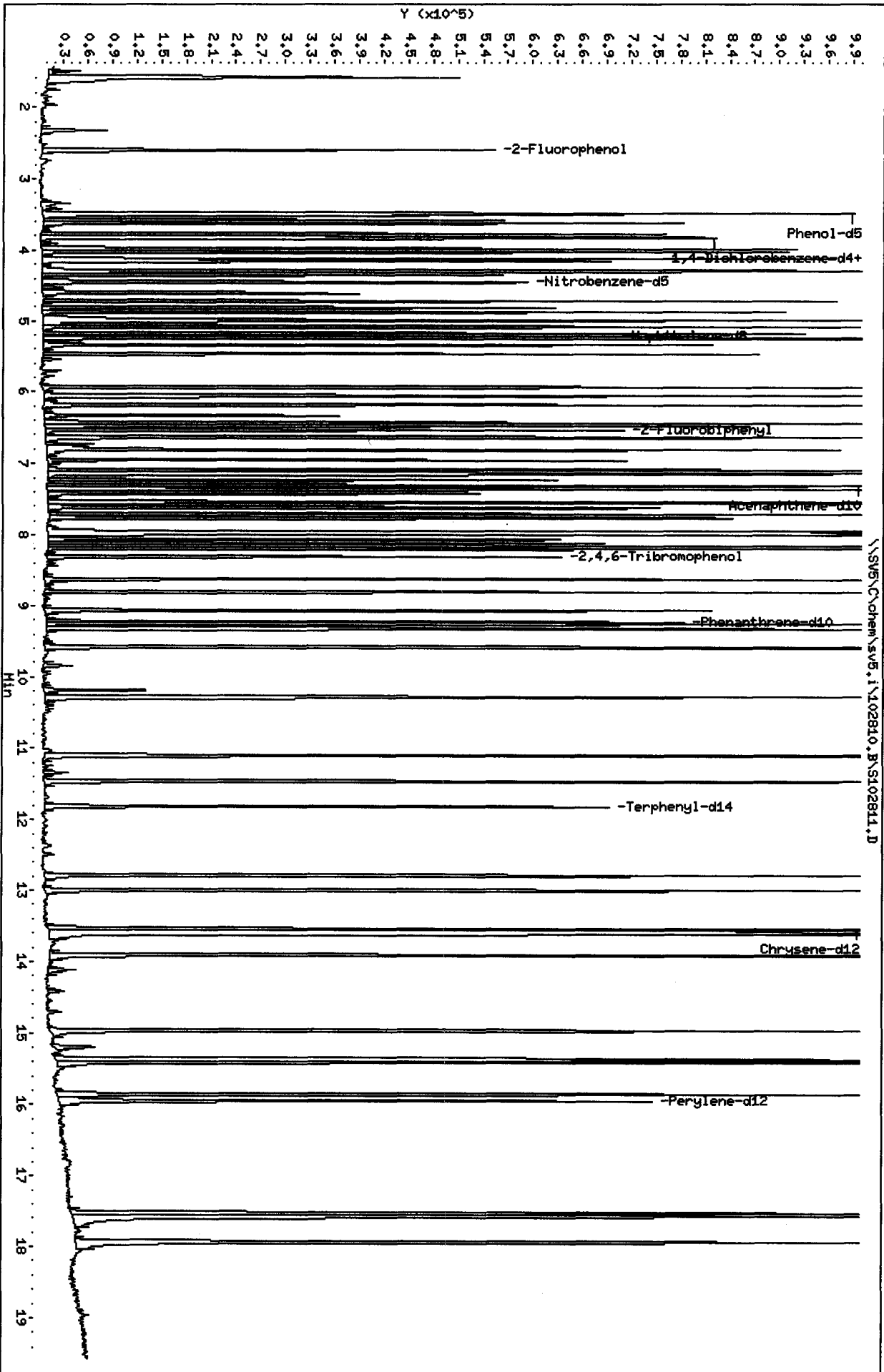
Sample Info: L84KKIAC G0J260000-370C3ILCS;1000;1000;2

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102812.D
 Lab Smp Id: L84XK1AD G0J260000-
 Inj Date : 28-OCT-2010 19:55
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AD G0J260000-370L;3;LCSD;;1000;;1000;2
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SP;1;;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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		3.809	3.809	(1.000)	83277	40.0000	
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	360001	40.0000	
* 3 Acenaphthene-d10	164		7.323	7.322	(1.000)	204451	40.0000	
* 4 Phenanthrene-d10	188		9.229	9.229	(1.000)	322801	40.0000	
* 5 Chrysene-d12	240		13.571	13.582	(1.000)	318121	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	317672	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	195990	66.7689	66.77
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	273112	73.9906	73.99
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.					
\$ 11 Nitrobenzene-d5	82		4.442	4.442	(0.851)	111359	36.5212	36.52
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	247358	37.5582	37.56
\$ 13 2,4,6-Tribromophenol	330		8.317	8.317	(1.136)	80325	90.4138	90.41
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.871)	246109	39.2760	39.28
108 Hexachlorobenzene	284		8.804	8.815	(0.954)	149890	85.1746	85.17

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 11-9-10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84XK1AD G0J260000-
 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\Datafiles10\10OCT10\102810.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	85.17	85.17	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.77	66.77	41-105
\$ 8 Phenol-d5	100.0	73.99	73.99	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	36.52	73.04	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.56	75.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.41	90.41	61-118
\$ 14 Terphenyl-d14	50.00	39.28	78.55	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102812.D
 Lab Smp Id: L84XK1AD G0J260000-
 Inj Date : 28-OCT-2010 19:55
 Operator : srs Inst ID: sv5.i
 Smp Info : L84XK1AD G0J260000-370L;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\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: 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	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)	83277	40.0000	
* 2 Naphthalene-d8		136	5.219	5.229	(1.000)	360001	40.0000	
* 3 Acenaphthene-d10		164	7.323	7.322	(1.000)	204451	40.0000	
* 4 Phenanthrene-d10		188	9.229	9.229	(1.000)	322801	40.0000	
* 5 Chrysene-d12		240	13.571	13.582	(1.000)	318121	40.0000	
* 6 Perylene-d12		264	15.945	15.955	(1.000)	317672	40.0000	
\$ 7 2-Fluorophenol		112	2.597	2.597	(0.682)	195990	66.7689	66.77
\$ 8 Phenol-d5		99	3.478	3.478	(0.913)	273112	73.9906	73.99
\$ 10 1,2-Dichlorobenzene-d4		152	3.809	4.006	(1.000)	83277	40.6039	40.60 (qR)
\$ 11 Nitrobenzene-d5		82	4.442	4.442	(0.851)	111359	36.5212	36.52
\$ 12 2-Fluorobiphenyl		172	6.535	6.535	(0.892)	247358	37.5582	37.56
\$ 13 2,4,6-Tribromophenol		330	8.317	8.317	(1.136)	80325	90.4138	90.41
\$ 14 Terphenyl-d14		244	11.820	11.820	(0.871)	246109	39.2760	39.28
108 Hexachlorobenzene		284	8.804	8.815	(0.954)	149890	85.1746	85.17

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102812.D
 Lab Smp Id: L84XK1AD G0J260000-
 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;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24

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	83277	-32.09
2 Naphthalene-d8	530514	265257	1061028	360001	-32.14
3 Acenaphthene-d10	282538	141269	565076	204451	-27.64
4 Phenanthrene-d10	462722	231361	925444	322801	-30.24
5 Chrysene-d12	435850	217925	871700	318121	-27.01
6 Perylene-d12	422284	211142	844568	317672	-24.77

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: L84XK1AD G0J260000-
 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\102810.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	85.17	85.17	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.77	66.77	41-105
\$ 8 Phenol-d5	100.0	73.99	73.99	43-122
\$ 10 1,2-Dichlorobenzen	100.0	40.60	40.60*	60-120
\$ 11 Nitrobenzene-d5	50.00	36.52	73.04	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.56	75.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.41	90.41	61-118
\$ 14 Terphenyl-d14	50.00	39.28	78.55	69-110

Data File: \\SV5\Chem\sv5.1\102810.B\S102812.D
Date: 28-OCT-2010 19:55

Client ID:

Sample Info: LB4KK1AD G0J260000-370L;31LCSJ;11000;11000;2

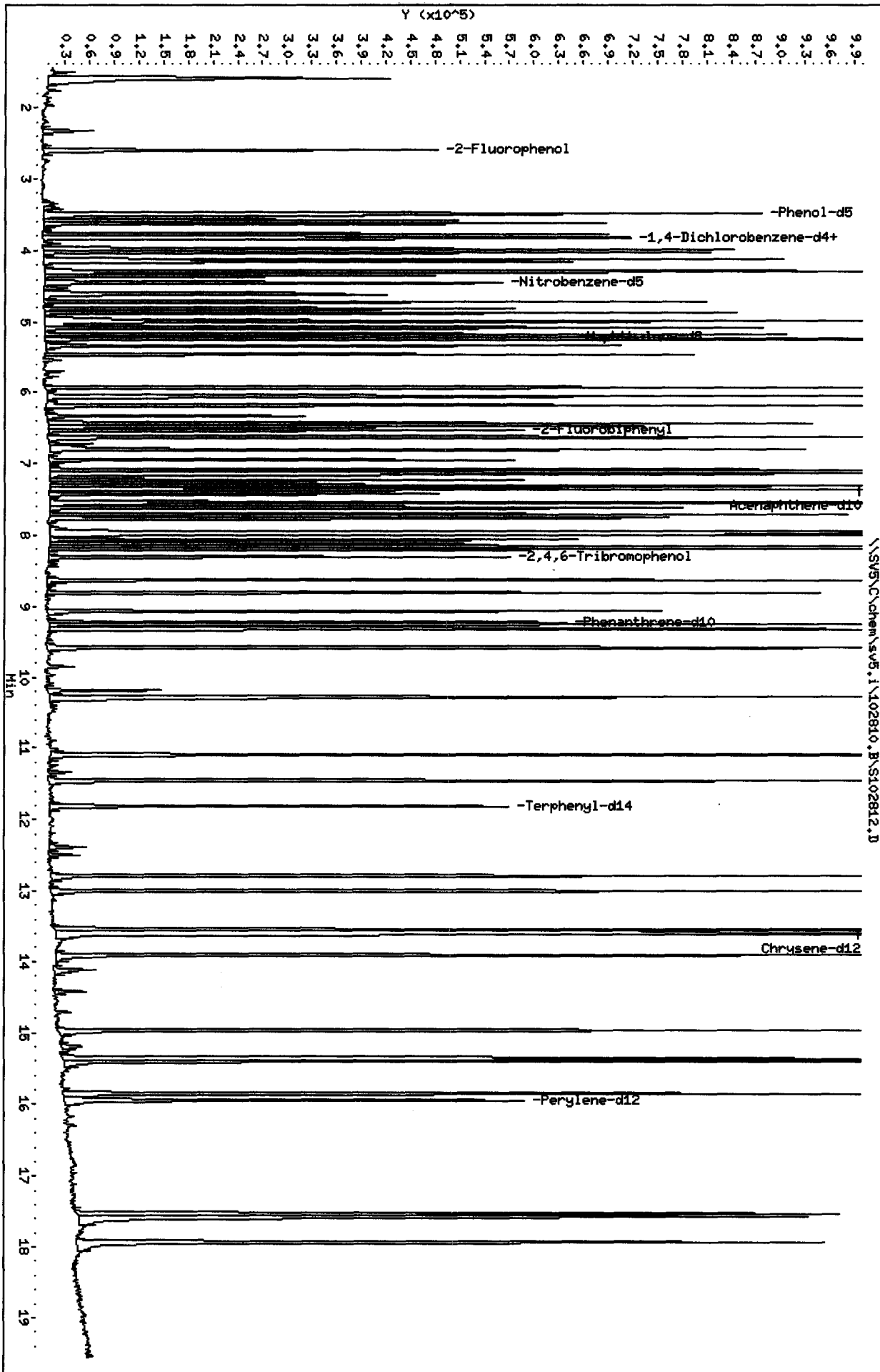
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: srs

Column diameter: 2.00



\\SV5\Chem\sv5.1\102810.B\S102812.D

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102813.D
 Lab Smp Id: L84MH1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 20:20
 Operator : srs Inst ID: sv5.i
 Smp Info : L84MH1AA G0J260480-1;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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)	66545	40.0000	(Q)	
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	291882	40.0000		
* 3 Acenaphthene-d10	164		7.312	7.322	(1.000)	160469	40.0000		
* 4 Phenanthrene-d10	188		9.219	9.229	(1.000)	276798	40.0000		
* 5 Chrysene-d12	240		13.561	13.582	(1.000)	283608	40.0000		
* 6 Perylene-d12	264		15.944	15.955	(1.000)	297701	40.0000		
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	140751	60.0069	60.01	
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	208745	70.7720	70.77	
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	45978	28.0545	28.05 (QR)	
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	76062	30.7669	30.77	
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.894)	167864	32.4739	32.47	
\$ 13 2,4,6-Tribromophenol	330		8.307	8.317	(1.136)	69345	99.4483	99.45	
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.872)	221413	39.6348	39.63	
108 Hexachlorobenzene	284		8.804	8.815	(0.955)	15142	10.0344	10.03	

QC Flag Legend

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

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TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84MH1AA GOJ260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	60.01	60.01	41-105
\$ 8 Phenol-d5	100.0	70.77	70.77	43-122
\$ 10 1,2-Dichlorobenzen	50.00	28.05	56.11*	60-120
\$ 11 Nitrobenzene-d5	50.00	30.77	61.53	46-118
\$ 12 2-Fluorobiphenyl	50.00	32.47	64.95	58-105
\$ 13 2,4,6-Tribromophen	100.0	99.45	99.45	61-118
\$ 14 Terphenyl-d14	50.00	39.63	79.27	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102813.D
 Lab Smp Id: L84MH1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 20:20
 Operator : srs Inst ID: sv5.i
 Smp Info : L84MH1AA G0J260480-1;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;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				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.809	3.809	(1.000)	66545	40.0000	(Q)
* 2 Naphthalene-d8	136	5.219	5.229	(1.000)	291882	40.0000	
* 3 Acenaphthene-d10	164	7.312	7.322	(1.000)	160469	40.0000	
* 4 Phenanthrene-d10	188	9.219	9.229	(1.000)	276798	40.0000	
* 5 Chrysene-d12	240	13.561	13.582	(1.000)	283608	40.0000	
* 6 Perylene-d12	264	15.944	15.955	(1.000)	297701	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.682)	140751	60.0069	60.01
\$ 8 Phenol-d5	99	3.478	3.478	(0.913)	208745	70.7720	70.77
\$ 10 1,2-Dichlorobenzene-d4	152	4.006	4.006	(1.052)	45978	28.0545	28.05 (QR)
\$ 11 Nitrobenzene-d5	82	4.431	4.442	(0.849)	76062	30.7669	30.77
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.894)	167864	32.4739	32.47
\$ 13 2,4,6-Tribromophenol	330	8.307	8.317	(1.136)	69345	99.4483	99.45
\$ 14 Terphenyl-d14	244	11.820	11.820	(0.872)	221413	39.6348	39.63
108 Hexachlorobenzene	284	8.804	8.815	(0.955)	15142	10.0344	10.03

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102813.D
 Lab Smp Id: L84MH1AA G0J260480-
 Analysis Type: SV
 Quant Type: ISTD
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHC.B.SUB;;0;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	66545	-45.73
2 Naphthalene-d8	530514	265257	1061028	291882	-44.98
3 Acenaphthene-d10	282538	141269	565076	160469	-43.20
4 Phenanthrene-d10	462722	231361	925444	276798	-40.18
5 Chrysene-d12	435850	217925	871700	283608	-34.93
6 Perylene-d12	422284	211142	844568	297701	-29.50

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	7.31	-0.14
4 Phenanthrene-d10	9.23	8.73	9.73	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
6 Perylene-d12	15.96	15.46	16.46	15.94	-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

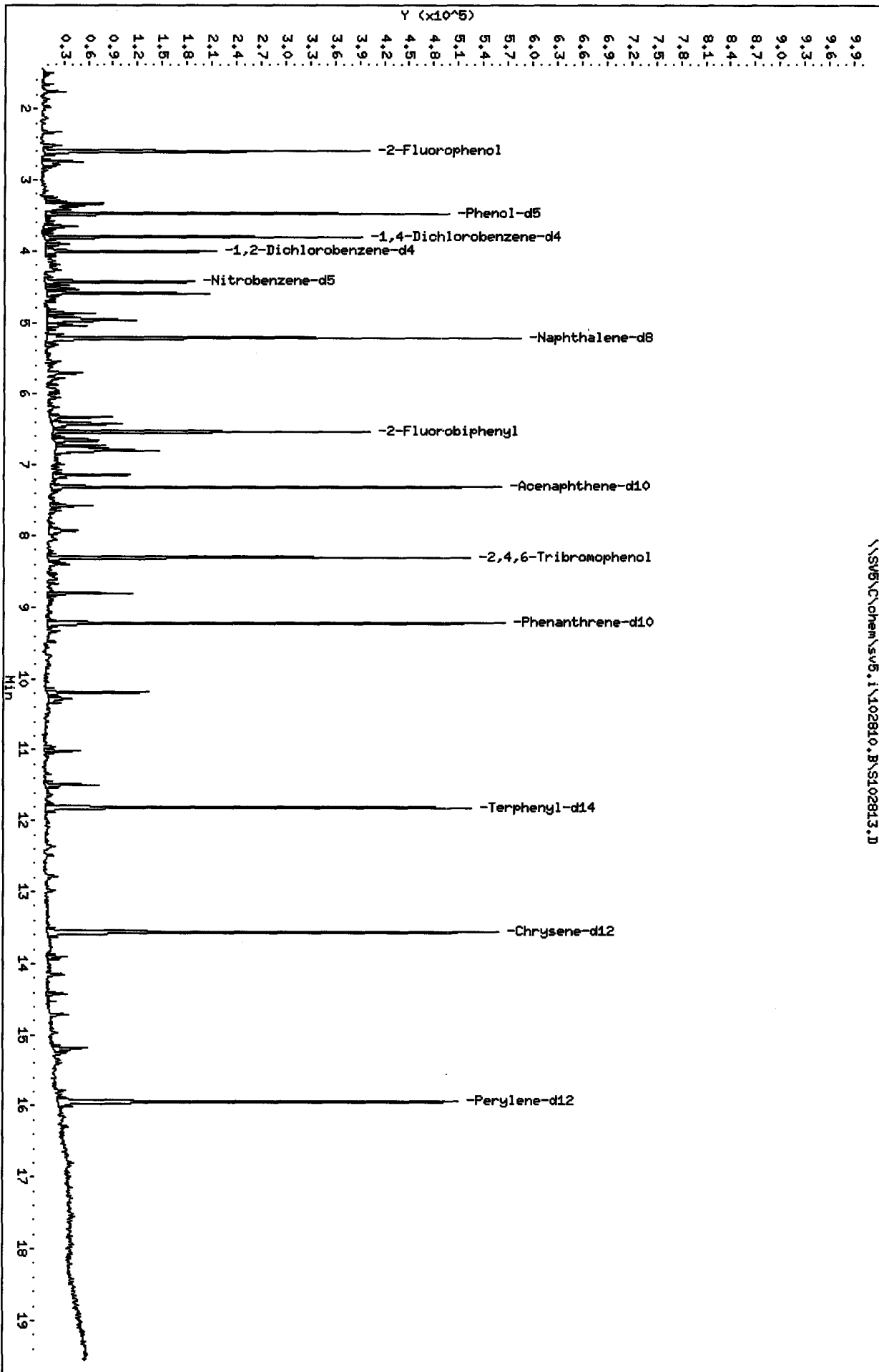
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84MH1AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	60.01	60.01	41-105
\$ 8 Phenol-d5	100.0	70.77	70.77	43-122
\$ 10 1,2-Dichlorobenzen	100.0	28.05	28.05*	60-120
\$ 11 Nitrobenzene-d5	50.00	30.77	61.53	46-118
\$ 12 2-Fluorobiphenyl	50.00	32.47	64.95	58-105
\$ 13 2,4,6-Tribromophen	100.0	99.45	99.45	61-118
\$ 14 Terphenyl-d14	50.00	39.63	79.27	69-110

Data File: \\SV5\chem\sv5.i\102810.B\S102813.D
 Date: 28-OCT-2010 20:20
 Client ID: 0299370
 Sample Info: L84HH1A G0J260480-1;0;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SV5\chem\sv5.i\102810.B\S102813.D



Date : 28-OCT-2010 20:20

Client ID: 0299370

Instrument: sv5.i

Sample Info: L84MH1AA G0J260480-1;0;;;1000;1000;5

Volume Injected (uL): 1.0

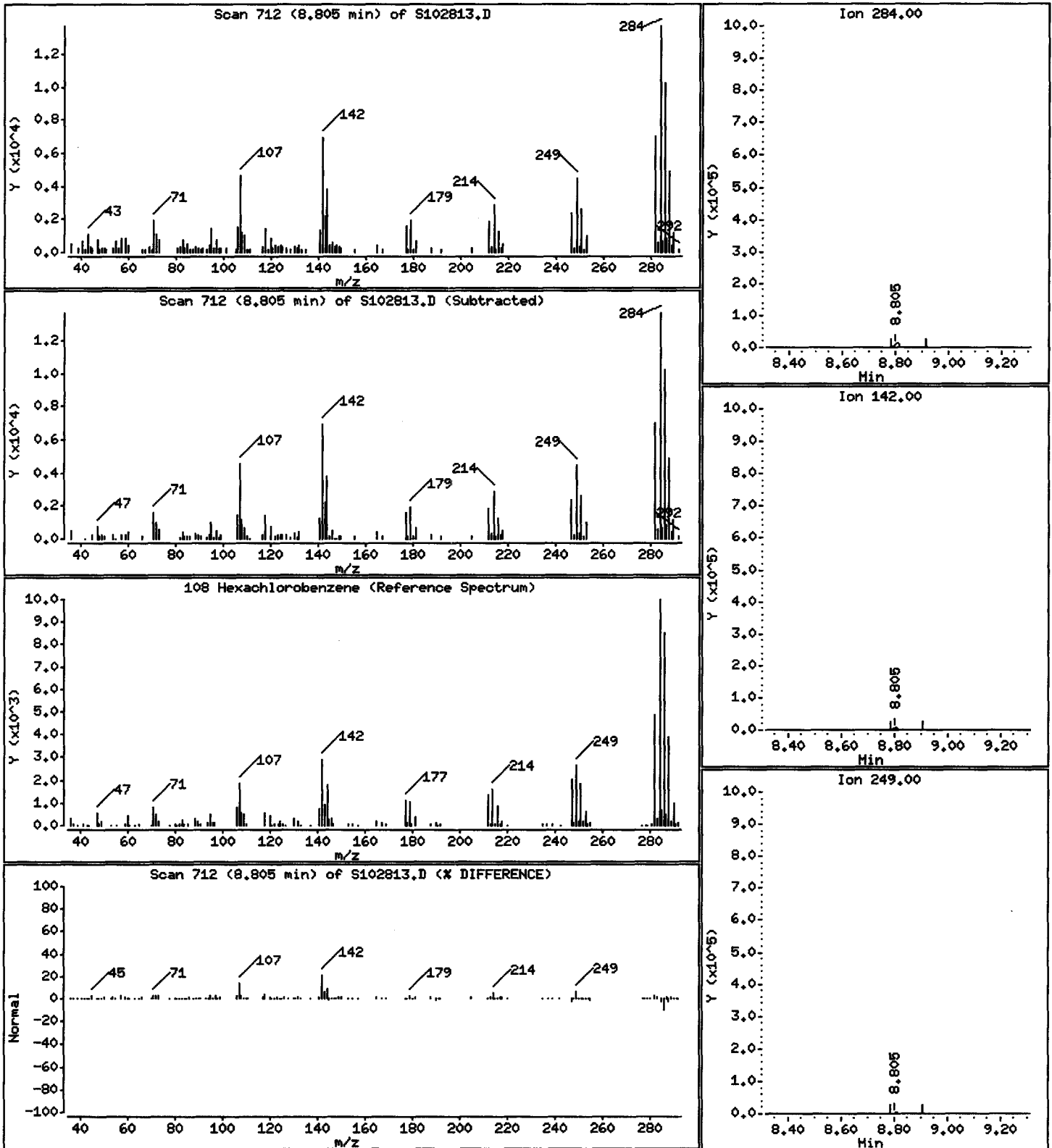
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 10.03 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102814.D
 Lab Smp Id: L84M61AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 20:45
 Operator : srs Inst ID: sv5.i
 Smp Info : L84M61AA G0J260480-5;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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	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)	67767	40.0000	(Q)
* 2 Naphthalene-d8	136			5.219	5.229	(1.000)	283020	40.0000	
* 3 Acenaphthene-d10	164			7.312	7.322	(1.000)	157721	40.0000	
* 4 Phenanthrene-d10	188			9.219	9.229	(1.000)	266371	40.0000	
* 5 Chrysene-d12	240			13.561	13.582	(1.000)	269347	40.0000	
* 6 Perylene-d12	264			15.944	15.955	(1.000)	268388	40.0000	
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	81126	33.9631	33.96 (R)
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	121788	40.5459	40.54 (R)
\$ 10 1,2-Dichlorobenzene-d4	152			4.017	4.006	(1.054)	21317	12.7725	12.77 (qR)
\$ 11 Nitrobenzene-d5	82			4.441	4.442	(0.851)	42846	17.8738	17.87 (R)
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.894)	95349	18.7670	18.77 (R)
\$ 13 2,4,6-Tribromophenol	330			8.307	8.317	(1.136)	26515	38.6879	38.69 (R)
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.872)	85895	16.1900	16.19 (R)
108 Hexachlorobenzene	284			Compound Not Detected.					

Handwritten: 11-9-10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L84M61AA G0J260480- Client Smp ID: 0299370
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\Datafiles10\10OCT10\102810.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	33.96	33.96*	41-105
\$ 8 Phenol-d5	100.0	40.54	40.55*	43-122
\$ 10 1,2-Dichlorobenzen	50.00	12.77	25.54*	60-120
\$ 11 Nitrobenzene-d5	50.00	17.87	35.75*	46-118
\$ 12 2-Fluorobiphenyl	50.00	18.77	37.53*	58-105
\$ 13 2,4,6-Tribromophen	100.0	38.69	38.69*	61-118
\$ 14 Terphenyl-d14	50.00	16.19	32.38*	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102814.D
 Lab Smp Id: L84M61AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 20:45
 Operator : srs Inst ID: sv5.i
 Smp Info : L84M61AA G0J260480-5;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;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: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152			3.809	3.809	(1.000)	67767	40.0000	(Q)
* 2 Naphthalene-d8	136			5.219	5.229	(1.000)	283020	40.0000	
* 3 Acenaphthene-d10	164			7.312	7.322	(1.000)	157721	40.0000	
* 4 Phenanthrene-d10	188			9.219	9.229	(1.000)	266371	40.0000	
* 5 Chrysene-d12	240			13.561	13.582	(1.000)	269347	40.0000	
* 6 Perylene-d12	264			15.944	15.955	(1.000)	268388	40.0000	
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	81126	33.9631	33.96 (R)
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	121788	40.5459	40.54 (R)
\$ 10 1,2-Dichlorobenzene-d4	152			4.017	4.006	(1.054)	21317	12.7725	12.77 (qR)
\$ 11 Nitrobenzene-d5	82			4.441	4.442	(0.851)	42846	17.8738	17.87 (R)
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.894)	95349	18.7670	18.77 (R)
\$ 13 2,4,6-Tribromophenol	330			8.307	8.317	(1.136)	26515	38.6879	38.69 (R)
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.872)	85895	16.1900	16.19 (R)
108 Hexachlorobenzene	284			Compound Not Detected.					

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102814.D
 Lab Smp Id: L84M61AA G0J260480-
 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;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	67767	-44.74
2 Naphthalene-d8	530514	265257	1061028	283020	-46.65
3 Acenaphthene-d10	282538	141269	565076	157721	-44.18
4 Phenanthrene-d10	462722	231361	925444	266371	-42.43
5 Chrysene-d12	435850	217925	871700	269347	-38.20
6 Perylene-d12	422284	211142	844568	268388	-36.44

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	7.31	-0.14
4 Phenanthrene-d10	9.23	8.73	9.73	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
6 Perylene-d12	15.96	15.46	16.46	15.94	-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

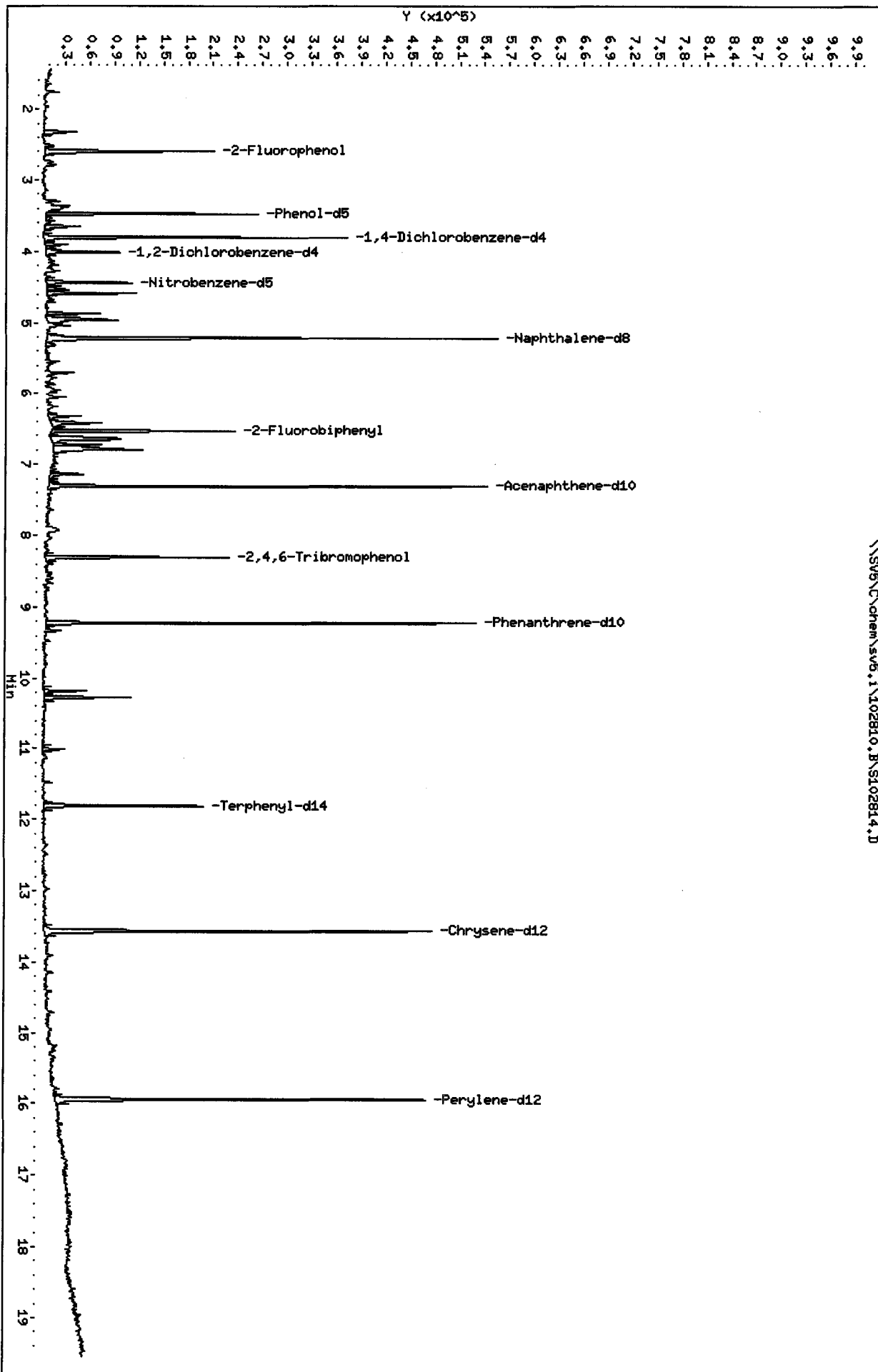
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84M61AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	33.96	33.96*	41-105
\$ 8 Phenol-d5	100.0	40.54	40.55*	43-122
\$ 10 1,2-Dichlorobenzen	100.0	12.77	12.77*	60-120
\$ 11 Nitrobenzene-d5	50.00	17.87	35.75*	46-118
\$ 12 2-Fluorobiphenyl	50.00	18.77	37.53*	58-105
\$ 13 2,4,6-Tribromophen	100.0	38.69	38.69*	61-118
\$ 14 Terphenyl-d14	50.00	16.19	32.38*	69-110

Data File: \\SV5\C\chem\sv5.i\102810.B\SI02814.D
 Date: 28-OCT-2010 20:45
 Client ID: 0299370
 Sample Info: LB4M1A0 GOJ260480-5;0;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SV5\C\chem\sv5.i\102810.B\SI02814.D



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102815.D
 Lab Smp Id: L84NF1AA GOJ260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 21:10
 Operator : srs Inst ID: sv5.i
 Smp Info : L84NF1AA GOJ260480-8;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 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		152	3.809	3.809	(1.000)	88896	40.0000	(Q)
* 2 Naphthalene-d8	136		136	5.219	5.229	(1.000)	386920	40.0000	
* 3 Acenaphthene-d10	164		164	7.323	7.322	(1.000)	212998	40.0000	
* 4 Phenanthrene-d10	188		188	9.219	9.229	(1.000)	347064	40.0000	
* 5 Chrysene-d12	240		240	13.561	13.582	(1.000)	341221	40.0000	
* 6 Perylene-d12	264		264	15.945	15.955	(1.000)	331431	40.0000	
\$ 7 2-Fluorophenol	112		112	2.597	2.597	(0.682)	204712	65.3321	65.33
\$ 8 Phenol-d5	99		99	3.478	3.478	(0.913)	301727	76.5760	76.58
\$ 10 1,2-Dichlorobenzene-d4	152		152	4.017	4.006	(1.054)	57289	26.1672	26.17 (qR)
\$ 11 Nitrobenzene-d5	82		82	4.442	4.442	(0.851)	117594	35.8829	35.88
\$ 12 2-Fluorobiphenyl	172		172	6.535	6.535	(0.892)	256001	37.3107	37.31
\$ 13 2,4,6-Tribromophenol	330		330	8.307	8.317	(1.134)	85679	92.5704	92.57
\$ 14 Terphenyl-d14	244		244	11.820	11.820	(0.872)	270185	40.1992	40.20
108 Hexachlorobenzene	284		284	8.804	8.815	(0.955)	1501	0.79331	0.7933 (aq)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- Q - Qualifier signal failed the ratio test.

Handwritten: 11-9-10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84NF1AA G0J260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.33	65.33	41-105
\$ 8 Phenol-d5	100.0	76.58	76.58	43-122
\$ 10 1,2-Dichlorobenzen	50.00	26.17	52.33*	60-120
\$ 11 Nitrobenzene-d5	50.00	35.88	71.77	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.31	74.62	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.57	92.57	61-118
\$ 14 Terphenyl-d14	50.00	40.20	80.40	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102815.D
 Lab Smp Id: L84NF1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 21:10
 Operator : srs Inst ID: sv5.i
 Smp Info : L84NF1AA G0J260480-8;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0299370;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: 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	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)	88896	40.0000	(Q)
* 2 Naphthalene-d8	136	5.219	5.229	(1.000)	386920	40.0000	
* 3 Acenaphthene-d10	164	7.323	7.322	(1.000)	212998	40.0000	
* 4 Phenanthrene-d10	188	9.219	9.229	(1.000)	347064	40.0000	
* 5 Chrysene-d12	240	13.561	13.582	(1.000)	341221	40.0000	
* 6 Perylene-d12	264	15.945	15.955	(1.000)	331431	40.0000	
\$ 7 2-Fluorophenol	112	2.597	2.597	(0.682)	204712	65.3321	65.33
\$ 8 Phenol-d5	99	3.478	3.478	(0.913)	301727	76.5760	76.58
\$ 10 1,2-Dichlorobenzene-d4	152	4.017	4.006	(1.054)	57289	26.1672	26.17 (qR)
\$ 11 Nitrobenzene-d5	82	4.442	4.442	(0.851)	117594	35.8829	35.88
\$ 12 2-Fluorobiphenyl	172	6.535	6.535	(0.892)	256001	37.3107	37.31
\$ 13 2,4,6-Tribromophenol	330	8.307	8.317	(1.134)	85679	92.5704	92.57
\$ 14 Terphenyl-d14	244	11.820	11.820	(0.872)	270185	40.1992	40.20
108 Hexachlorobenzene	284	8.804	8.815	(0.955)	1501	0.79331	0.7933 (aq)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102815.D
 Lab Smp Id: L84NF1AA G0J260480-
 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;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	88896	-27.51
2 Naphthalene-d8	530514	265257	1061028	386920	-27.07
3 Acenaphthene-d10	282538	141269	565076	212998	-24.61
4 Phenanthrene-d10	462722	231361	925444	347064	-25.00
5 Chrysene-d12	435850	217925	871700	341221	-21.71
6 Perylene-d12	422284	211142	844568	331431	-21.51

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	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
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

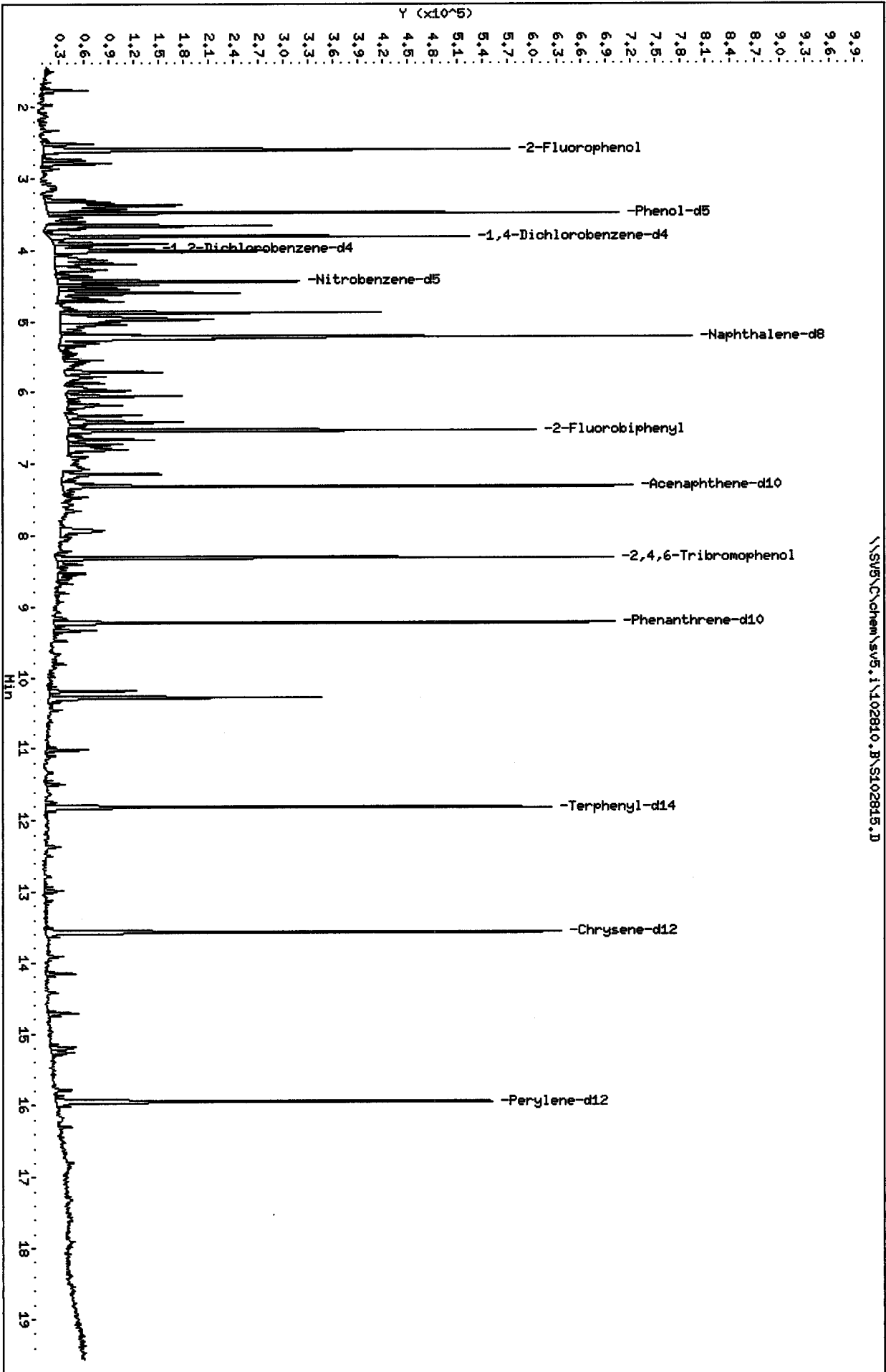
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84NF1AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.33	65.33	41-105
\$ 8 Phenol-d5	100.0	76.58	76.58	43-122
\$ 10 1,2-Dichlorobenzen	100.0	26.17	26.17*	60-120
\$ 11 Nitrobenzene-d5	50.00	35.88	71.77	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.31	74.62	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.57	92.57	61-118
\$ 14 Terphenyl-d14	50.00	40.20	80.40	69-110

Data File: \\SV5\C\chem\sv5.1\102810.B\S102815.D
 Date: 28-OCT-2010 21:10
 Client ID: 0299370
 Sample Info: LG4NF1A4 G0J260480-810;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SV5\C\chem\sv5.1\102810.B\S102815.D



Date : 28-OCT-2010 21:10

Client ID: 0299370

Instrument: sv5.i

Sample Info: LB4NF1AA G0J260480-8;0;;;1000;;1000;5

Volume Injected (uL): 1.0

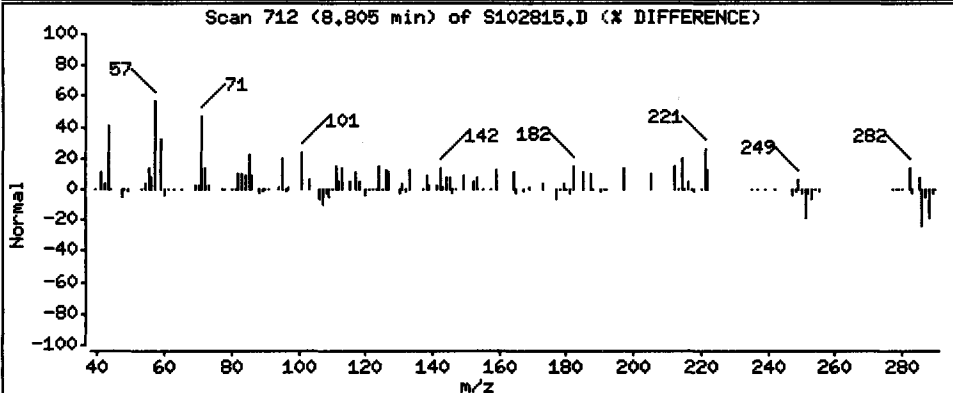
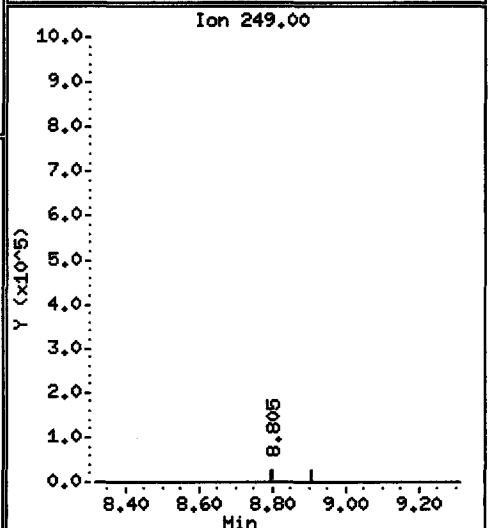
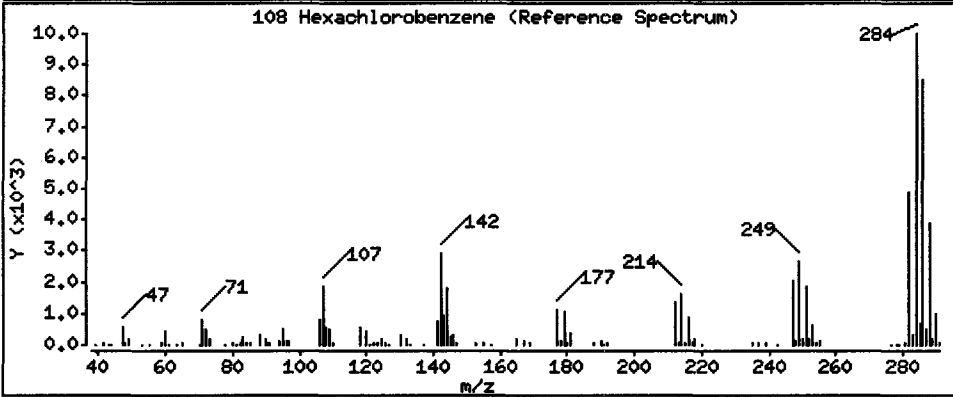
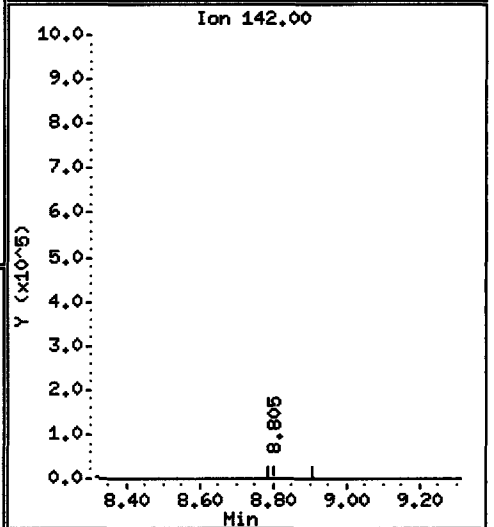
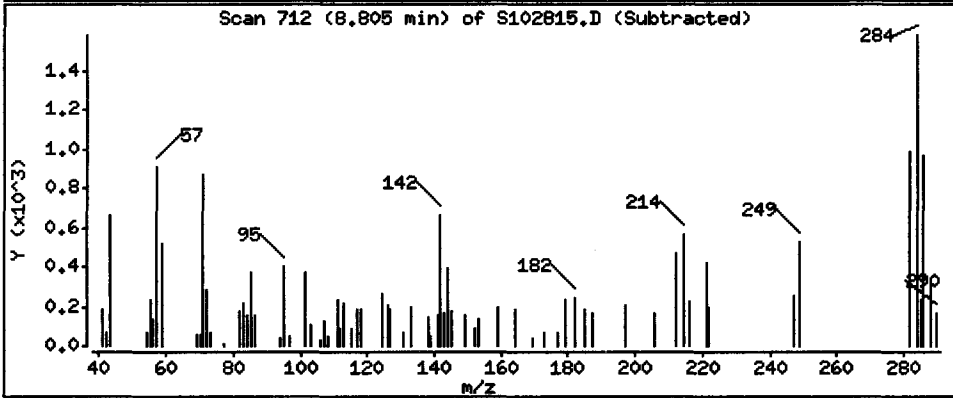
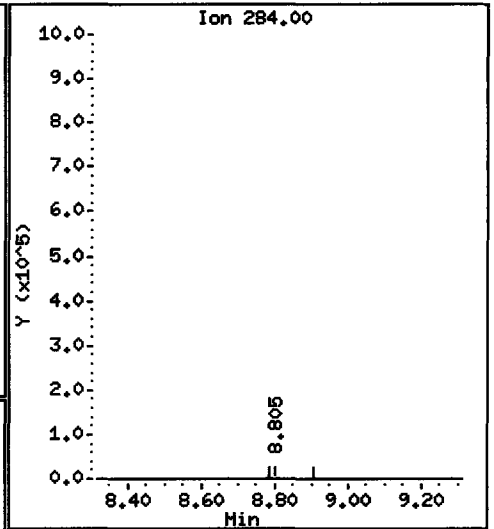
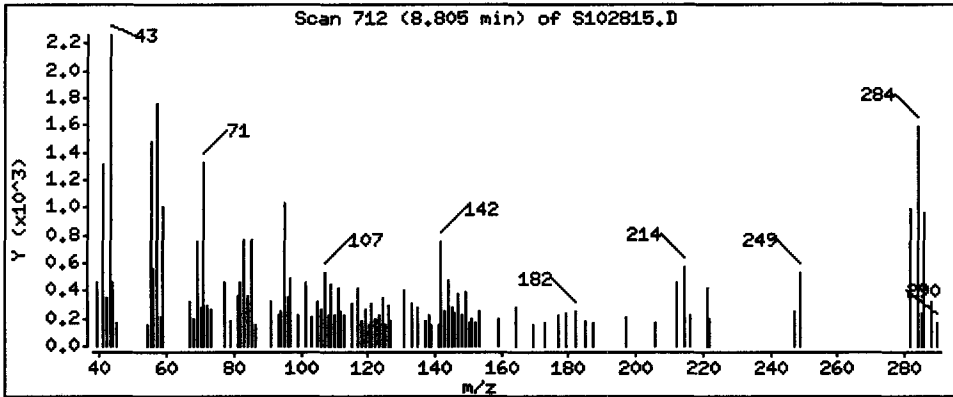
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.7933 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102817.D
 Lab Smp Id: L84PR1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 22:00
 Operator : srs Inst ID: sv5.i
 Smp Info : L84PR1AA G0J260480-14;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	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)	79934	40.0000	(Q)
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	350291	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.322	(1.000)	190947	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.229	(1.000)	307143	40.0000	
* 5 Chrysene-d12	240		13.561	13.582	(1.000)	308916	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	301200	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	162884	57.8112	57.81
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	233794	65.9877	65.99
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	38175	19.3917	19.39 (QR)
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	92556	31.1960	31.20
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.894)	206330	33.5442	33.54 (M)
\$ 13 2,4,6-Tribromophenol	330		8.307	8.317	(1.136)	75307	90.7603	90.76
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.872)	247340	40.6487	40.65
108 Hexachlorobenzene	284		8.804	8.815	(0.955)	39309	23.4760	23.48

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Handwritten signature
 11-9-10

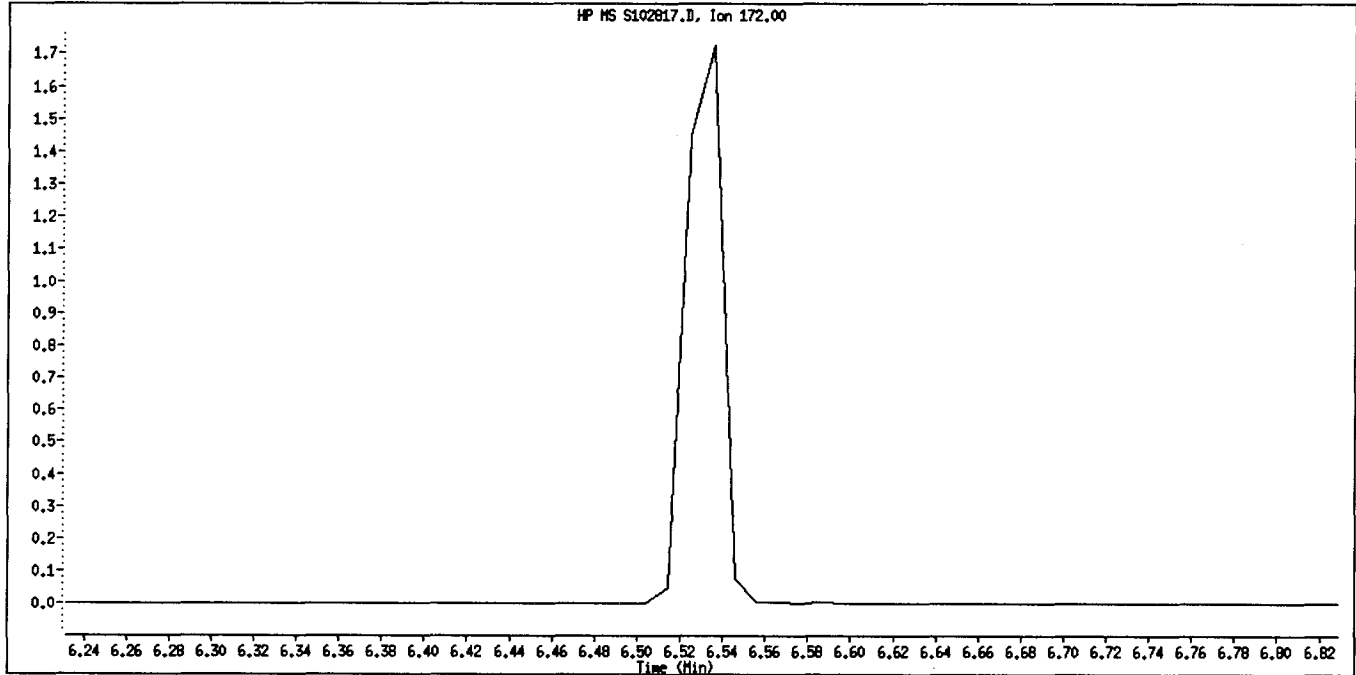
TestAmerica West Sacramento

RECOVERY REPORT

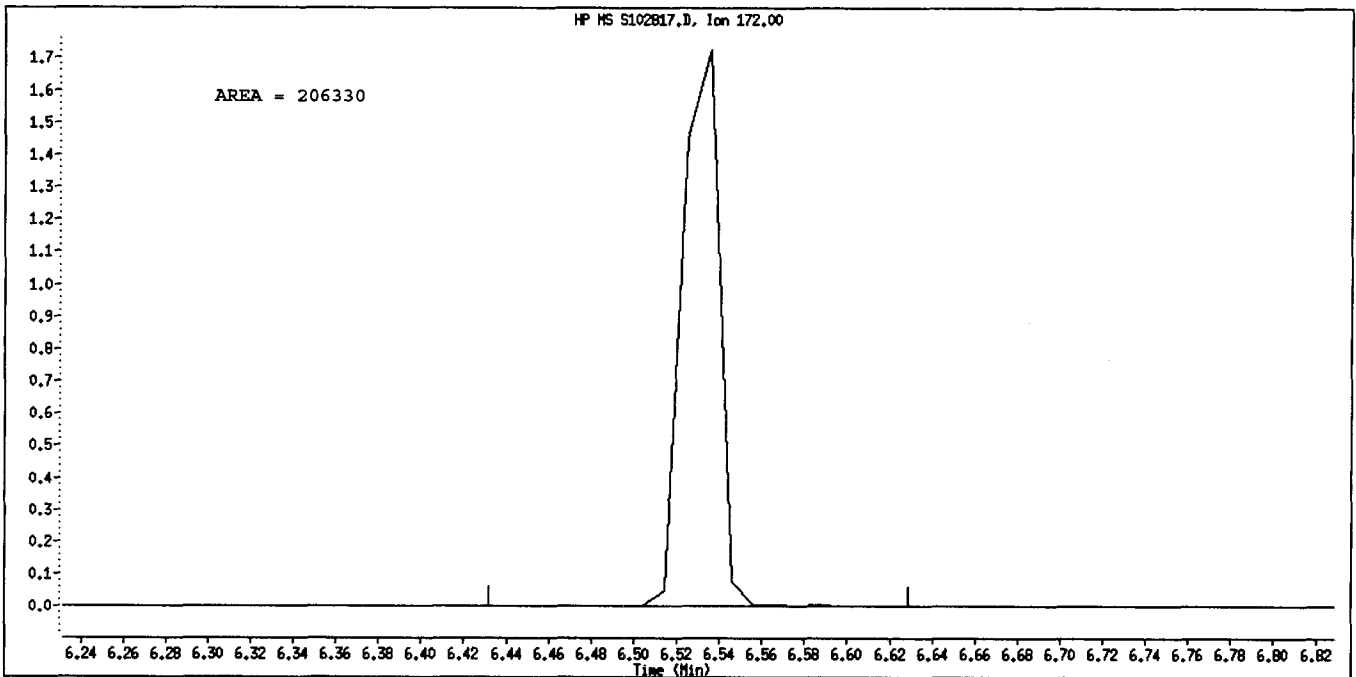
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84PR1AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	57.81	57.81	41-105
\$ 8 Phenol-d5	100.0	65.99	65.99	43-122
\$ 10 1,2-Dichlorobenzen	50.00	19.39	38.78*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.20	62.39	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.54	67.09	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.76	90.76	61-118
\$ 14 Terphenyl-d14	50.00	40.65	81.30	69-110

Data File Name: S102817.D
Inj. Date and Time: 28-OCT-2010 22:00
Instrument ID: sv5.i
Client ID: 0299370
Compound Name: 2-Fluorobiphenyl
CAS #: 321-60-8
Report Date: 11/09/2010



Original Integration



Manual Integration

Manually Integrated By: *LT* ~~semivod~~ *11/9/10*
Manual Integration Reason: Peak Not Found

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102817.D
 Lab Smp Id: L84PR1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 22:00
 Operator : srs Inst ID: sv5.i
 Smp Info : L84PR1AA G0J260480-14;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;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: 8
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	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)	79934	40.0000	(Q)
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	350291	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.322	(1.000)	190947	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.229	(1.000)	307143	40.0000	
* 5 Chrysene-d12	240		13.561	13.582	(1.000)	308916	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	301200	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	162884	57.8112	57.81
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	233794	65.9877	65.99
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	38175	19.3917	19.39 (QR)
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	92556	31.1960	31.20
\$ 12 2-Fluorobiphenyl	172		Compound Not Detected.					
\$ 13 2,4,6-Tribromophenol	330		8.307	8.317	(1.136)	75307	90.7603	90.76
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.872)	247340	40.6487	40.65
108 Hexachlorobenzene	284		8.804	8.815	(0.955)	39309	23.4760	23.48

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102817.D
 Lab Smp Id: L84PR1AA G0J260480-
 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;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	79934	-34.81
2 Naphthalene-d8	530514	265257	1061028	350291	-33.97
3 Acenaphthene-d10	282538	141269	565076	190947	-32.42
4 Phenanthrene-d10	462722	231361	925444	307143	-33.62
5 Chrysene-d12	435850	217925	871700	308916	-29.12
6 Perylene-d12	422284	211142	844568	301200	-28.67

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	7.31	-0.14
4 Phenanthrene-d10	9.23	8.73	9.73	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
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

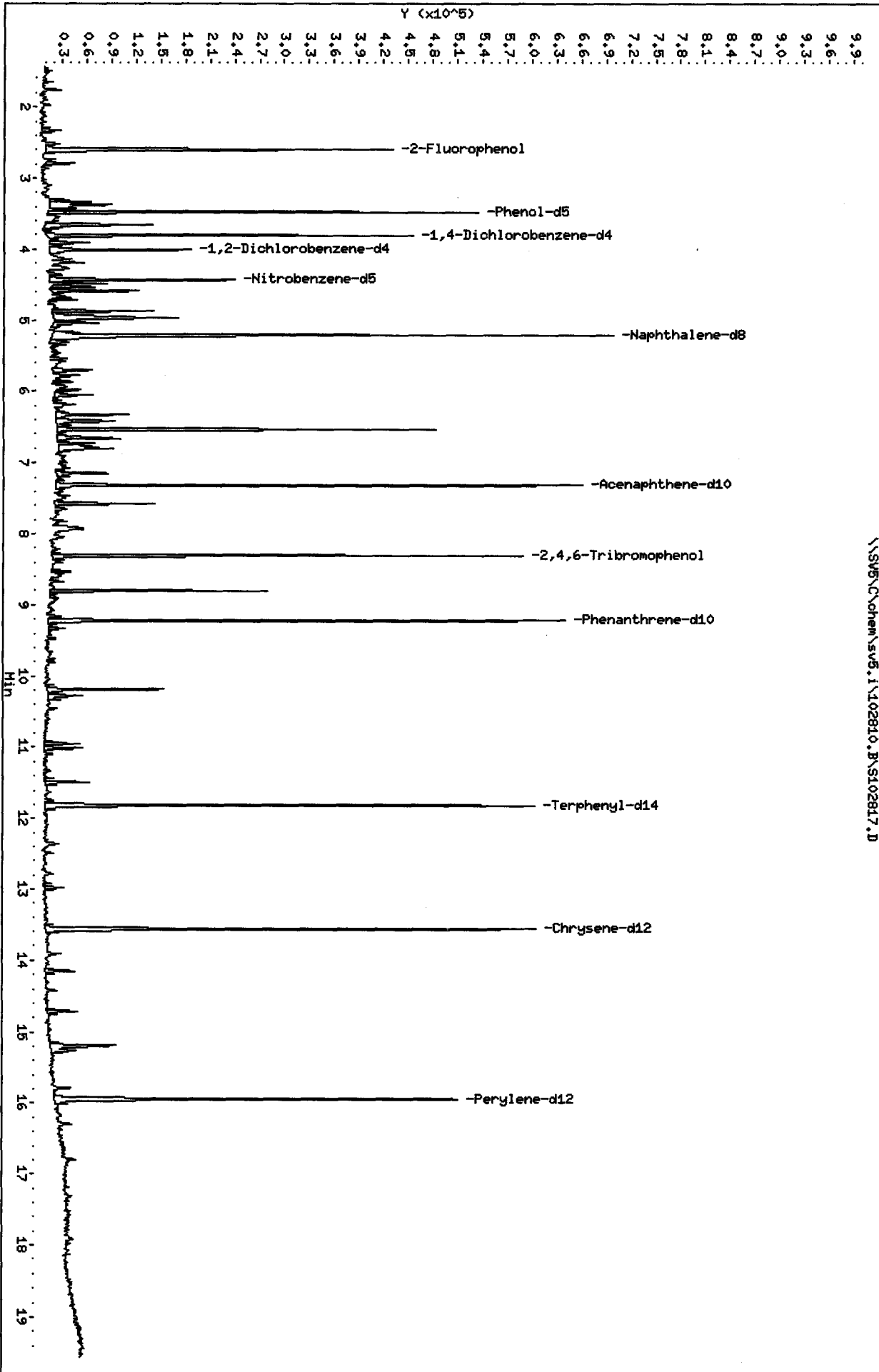
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84PR1AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	57.81	57.81	41-105
\$ 8 Phenol-d5	100.0	65.99	65.99	43-122
\$ 10 1,2-Dichlorobenzen	100.0	19.39	19.39*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.20	62.39	46-118
\$ 12 2-Fluorobiphenyl	50.00	0.0000	*	58-105
\$ 13 2,4,6-Tribromophen	100.0	90.76	90.76	61-118
\$ 14 Terphenyl-d14	50.00	40.65	81.30	69-110

Data File: \\SWS\C\chem\sv5.1\102810.B\SI02817.D
 Date: 28-OCT-2010 22:00
 Client ID: 0299370
 Sample Info: L84PRL0A G0J260480-14;0;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SWS\C\chem\sv5.1\102810.B\SI02817.D



Date : 28-OCT-2010 22:00

Client ID: 0299370

Instrument: sv5.i

Sample Info: L84PR1AA G0J260480-14;0;;;1000;;1000;5

Volume Injected (uL): 1.0

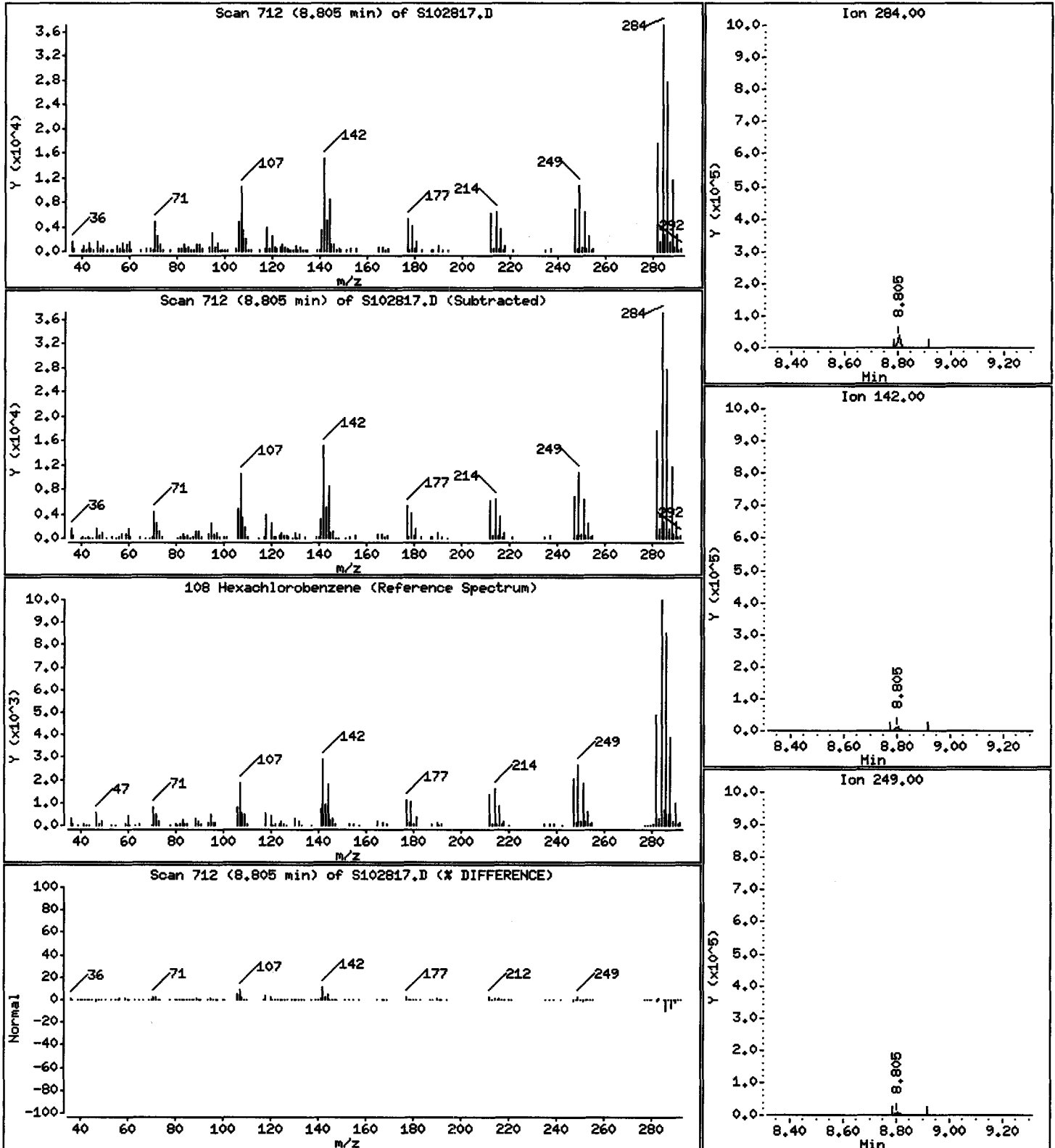
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 23.48 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102818.D
 Lab Smp Id: L84Q41AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 22:24
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q41AA G0J260480-18;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 9
 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)	68834	40.0000	(Q)
* 2 Naphthalene-d8	136			5.219	5.229	(1.000)	289142	40.0000	
* 3 Acenaphthene-d10	164			7.312	7.322	(1.000)	166082	40.0000	
* 4 Phenanthrene-d10	188			9.219	9.229	(1.000)	279818	40.0000	
* 5 Chrysene-d12	240			13.561	13.582	(1.000)	291901	40.0000	
* 6 Perylene-d12	264			15.945	15.955	(1.000)	306239	40.0000	
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	144283	59.4672	59.47
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	204832	67.1360	67.14
\$ 10 1,2-Dichlorobenzene-d4	152			4.006	4.006	(1.052)	30034	17.7165	17.72 (QR)
\$ 11 Nitrobenzene-d5	82			4.431	4.442	(0.849)	83030	33.9037	33.90
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.894)	190106	35.5337	35.53
\$ 13 2,4,6-Tribromophenol	330			8.317	8.317	(1.137)	64420	89.2630	89.26
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.872)	226102	39.3243	39.32
108 Hexachlorobenzene	284								Compound Not Detected.

QC Flag Legend

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

Handwritten:
 11-9-10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84Q41AA G0J260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.47	59.47	41-105
\$ 8 Phenol-d5	100.0	67.14	67.14	43-122
\$ 10 1,2-Dichlorobenzen	50.00	17.72	35.43*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.90	67.81	46-118
\$ 12 2-Fluorobiphenyl	50.00	35.53	71.07	58-105
\$ 13 2,4,6-Tribromophen	100.0	89.26	89.26	61-118
\$ 14 Terphenyl-d14	50.00	39.32	78.65	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102810.B\S102818.D
 Lab Smp Id: L84Q41AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 22:24
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q41AA G0J260480-18;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0299370;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: 9
 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)	68834	40.0000	(Q)	
* 2 Naphthalene-d8	136			5.219	5.229	(1.000)	289142	40.0000		
* 3 Acenaphthene-d10	164			7.312	7.322	(1.000)	166082	40.0000		
* 4 Phenanthrene-d10	188			9.219	9.229	(1.000)	279818	40.0000		
* 5 Chrysene-d12	240			13.561	13.582	(1.000)	291901	40.0000		
* 6 Perylene-d12	264			15.945	15.955	(1.000)	306239	40.0000		
\$ 7 2-Fluorophenol	112			2.597	2.597	(0.682)	144283	59.4672	59.47	
\$ 8 Phenol-d5	99			3.478	3.478	(0.913)	204832	67.1360	67.14	
\$ 10 1,2-Dichlorobenzene-d4	152			4.006	4.006	(1.052)	30034	17.7165	17.72 (QR)	
\$ 11 Nitrobenzene-d5	82			4.431	4.442	(0.849)	83030	33.9037	33.90	
\$ 12 2-Fluorobiphenyl	172			6.535	6.535	(0.894)	190106	35.5337	35.53	
\$ 13 2,4,6-Tribromophenol	330			8.317	8.317	(1.137)	64420	89.2630	89.26	
\$ 14 Terphenyl-d14	244			11.820	11.820	(0.872)	226102	39.3243	39.32	
108 Hexachlorobenzene	284			Compound Not Detected.						

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 28-OCT-2010
Lab File ID: S102818.D	Calibration Time: 12:24
Lab Smp Id: L84Q41AA G0J260480-	Client Smp ID: 0299370
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: srs	
Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m	
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	68834	-43.87
2 Naphthalene-d8	530514	265257	1061028	289142	-45.50
3 Acenaphthene-d10	282538	141269	565076	166082	-41.22
4 Phenanthrene-d10	462722	231361	925444	279818	-39.53
5 Chrysene-d12	435850	217925	871700	291901	-33.03
6 Perylene-d12	422284	211142	844568	306239	-27.48

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	7.31	-0.14
4 Phenanthrene-d10	9.23	8.73	9.73	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
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

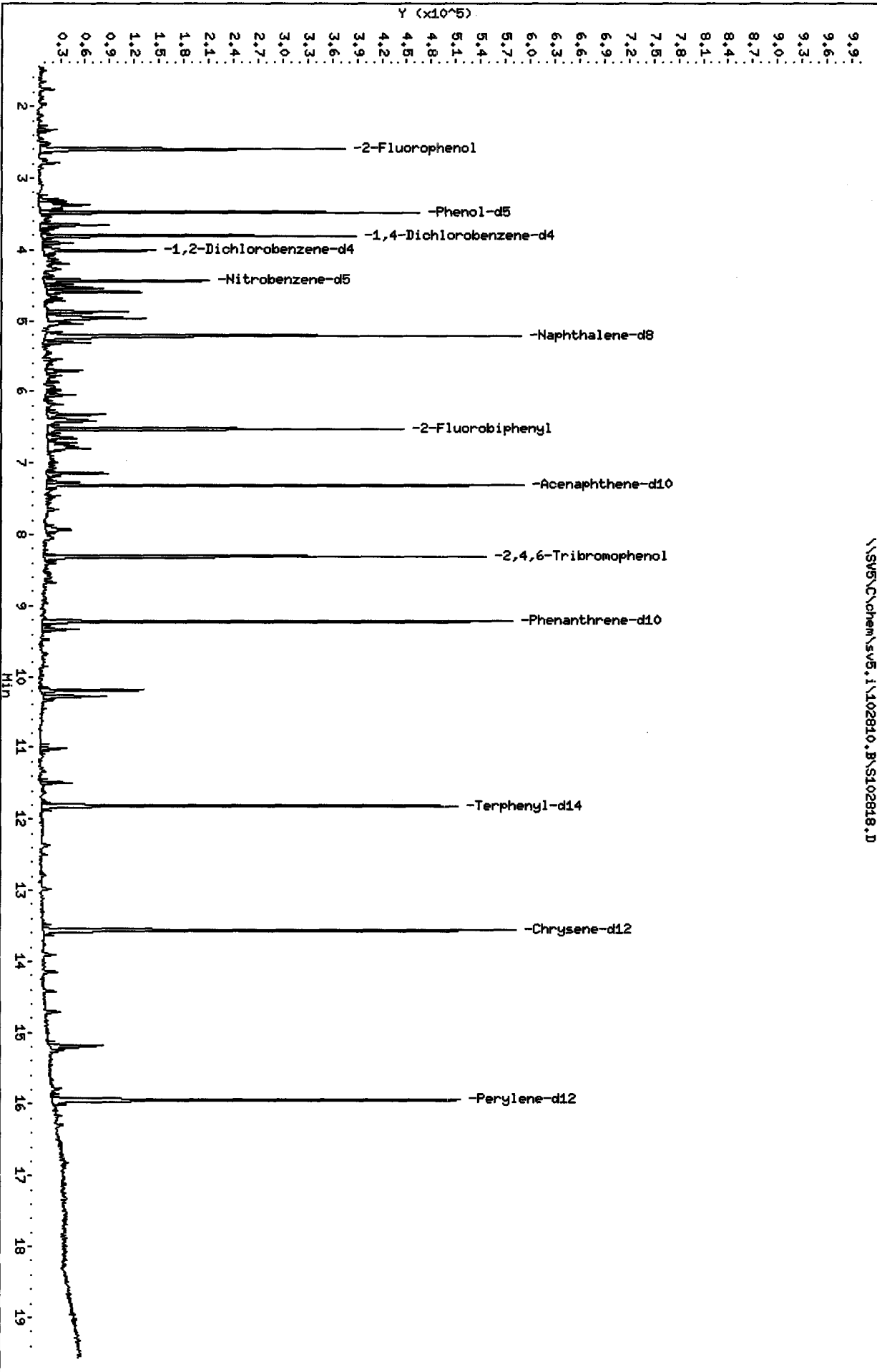
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84Q41AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.47	59.47	41-105
\$ 8 Phenol-d5	100.0	67.14	67.14	43-122
\$ 10 1,2-Dichlorobenzen	100.0	17.72	17.72*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.90	67.81	46-118
\$ 12 2-Fluorobiphenyl	50.00	35.53	71.07	58-105
\$ 13 2,4,6-Tribromophen	100.0	89.26	89.26	61-118
\$ 14 Terphenyl-d14	50.00	39.32	78.65	69-110

Data File: \\SV5\chem\sv5.i\102810.B\S102818.D
 Date: 28-OCT-2010 22:24
 Client ID: 0299370
 Sample Info: L840410A G0J260480-1890;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SV5\chem\sv5.i\102810.B\S102818.D



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\S102820.D
 Lab Smp Id: L84Q91AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 23:14
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q91AA G0J260480-22;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102810.B\8270f.m
 Meth Date : 09-Nov-2010 15:19 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

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

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

Compounds	QUANT	SIG					CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.809	3.809	(1.000)	90890	40.0000	(Q)
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	409351	40.0000	
* 3 Acenaphthene-d10	164		7.323	7.322	(1.000)	220534	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.229	(1.000)	356856	40.0000	
* 5 Chrysene-d12	240		13.561	13.582	(1.000)	360345	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	351113	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	191144	59.6637	59.66
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	278430	69.1132	69.11
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	46144	20.6142	20.61 (qR)
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	101270	29.2084	29.21
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	239714	33.7431	33.74
\$ 13 2,4,6-Tribromophenol	330		8.307	8.317	(1.134)	88806	92.6702	92.67
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.872)	284497	40.0822	40.08
108 Hexachlorobenzene	284		8.804	8.815	(0.955)	964	0.49551	0.4955 (aq)

Handwritten signature and date: 11-9-10

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84Q91AA G0J260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102810.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.66	59.66	41-105
\$ 8 Phenol-d5	100.0	69.11	69.11	43-122
\$ 10 1,2-Dichlorobenzen	50.00	20.61	41.23*	60-120
\$ 11 Nitrobenzene-d5	50.00	29.21	58.42	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.74	67.49	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.67	92.67	61-118
\$ 14 Terphenyl-d14	50.00	40.08	80.16	69-110

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\102810.B\S102820.D
 Lab Smp Id: L84Q91AA G0J260480- Client Smp ID: 0299370
 Inj Date : 28-OCT-2010 23:14
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q91AA G0J260480-22;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0299370;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: 11
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB
 Target Version: 4.14
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN	FINAL
			MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.809	3.809	(1.000)	90890	40.0000	(Q)
* 2 Naphthalene-d8	136		5.219	5.229	(1.000)	409351	40.0000	
* 3 Acenaphthene-d10	164		7.323	7.322	(1.000)	220534	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.229	(1.000)	356856	40.0000	
* 5 Chrysene-d12	240		13.561	13.582	(1.000)	360345	40.0000	
* 6 Perylene-d12	264		15.945	15.955	(1.000)	351113	40.0000	
\$ 7 2-Fluorophenol	112		2.597	2.597	(0.682)	191144	59.6637	59.66
\$ 8 Phenol-d5	99		3.478	3.478	(0.913)	278430	69.1132	69.11
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.052)	46144	20.6142	20.61 (qR)
\$ 11 Nitrobenzene-d5	82		4.431	4.442	(0.849)	101270	29.2084	29.21
\$ 12 2-Fluorobiphenyl	172		6.535	6.535	(0.892)	239714	33.7431	33.74
\$ 13 2,4,6-Tribromophenol	330		8.307	8.317	(1.134)	88806	92.6702	92.67
\$ 14 Terphenyl-d14	244		11.820	11.820	(0.872)	284497	40.0822	40.08
108 Hexachlorobenzene	284		8.804	8.815	(0.955)	964	0.49551	0.4955 (aq)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: S102820.D
 Lab Smp Id: L84Q91AA G0J260480-
 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;0299370;8270F.M

Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 0299370
 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	90890	-25.88
2 Naphthalene-d8	530514	265257	1061028	409351	-22.84
3 Acenaphthene-d10	282538	141269	565076	220534	-21.95
4 Phenanthrene-d10	462722	231361	925444	356856	-22.88
5 Chrysene-d12	435850	217925	871700	360345	-17.32
6 Perylene-d12	422284	211142	844568	351113	-16.85

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	9.22	-0.11
5 Chrysene-d12	13.58	13.08	14.08	13.56	-0.15
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

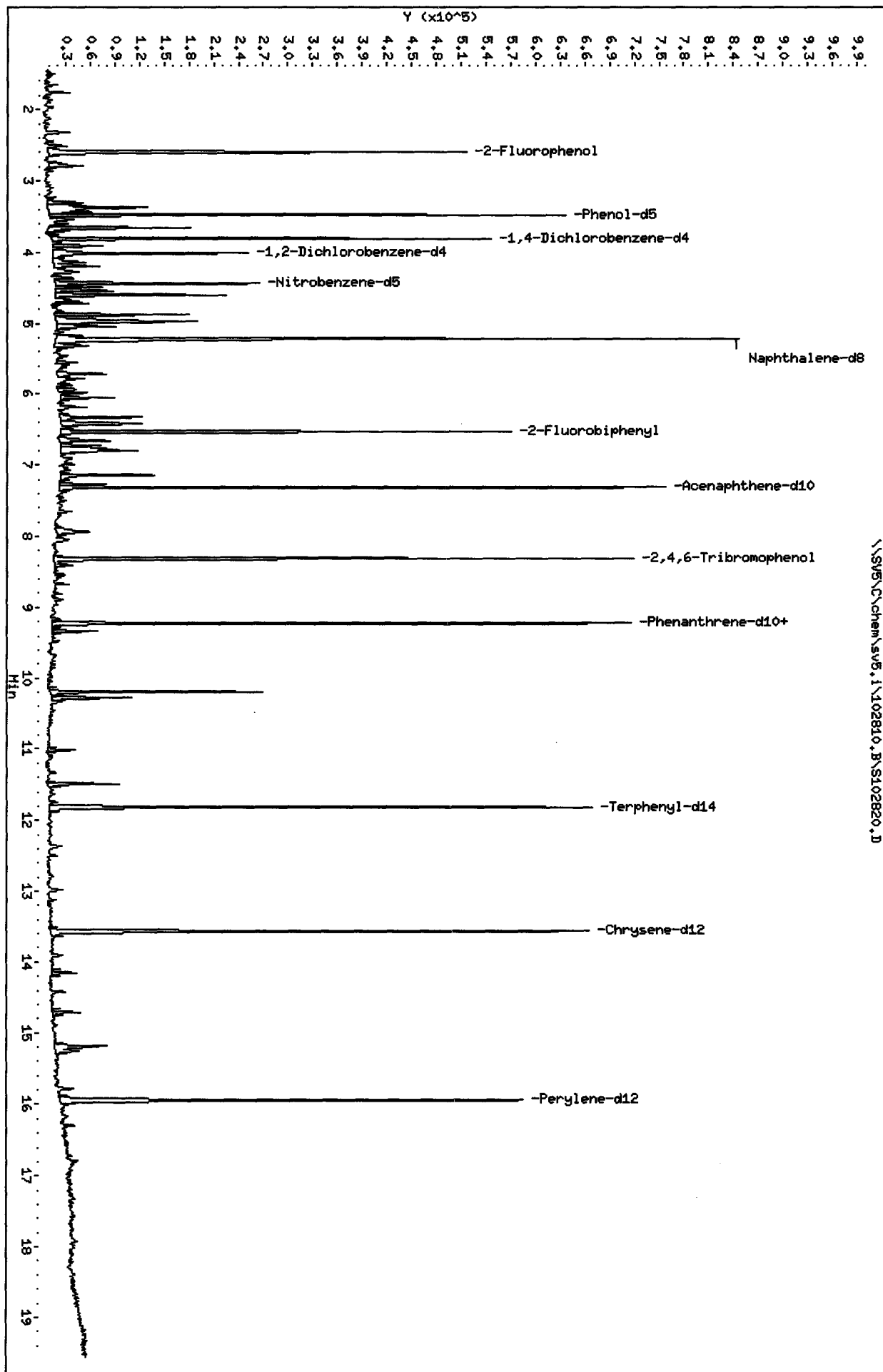
Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84Q91AA G0J260480- Client Smp ID: 0299370
 Level: LOW Operator: srs
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: Quant Type: ISTD
 Sublist File: S11JZHCB.SUB
 Method File: \\SV5\C\chem\sv5.i\102810.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.66	59.66	41-105
\$ 8 Phenol-d5	100.0	69.11	69.11	43-122
\$ 10 1,2-Dichlorobenzen	100.0	20.61	20.61*	60-120
\$ 11 Nitrobenzene-d5	50.00	29.21	58.42	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.74	67.49	58-105
\$ 13 2,4,6-Tribromophen	100.0	92.67	92.67	61-118
\$ 14 Terphenyl-d14	50.00	40.08	80.16	69-110

Data File: \\SV5\Chem\sv5.1\102810.B\S102820.D
 Date: 28-OCT-2010 23:14
 Client ID: 0299370
 Sample Info: L84091A0 G0J260480-22j0j11000j11000j5
 Volume Injected (uL): 1.0
 Column phase:

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

\\SV5\Chem\sv5.1\102810.B\S102820.D



Date : 28-OCT-2010 23:14

Client ID: 0299370

Instrument: sv5.1

Sample Info: L84Q91AA G0J260480-22;0;;;1000;;1000;5

Volume Injected (uL): 1.0

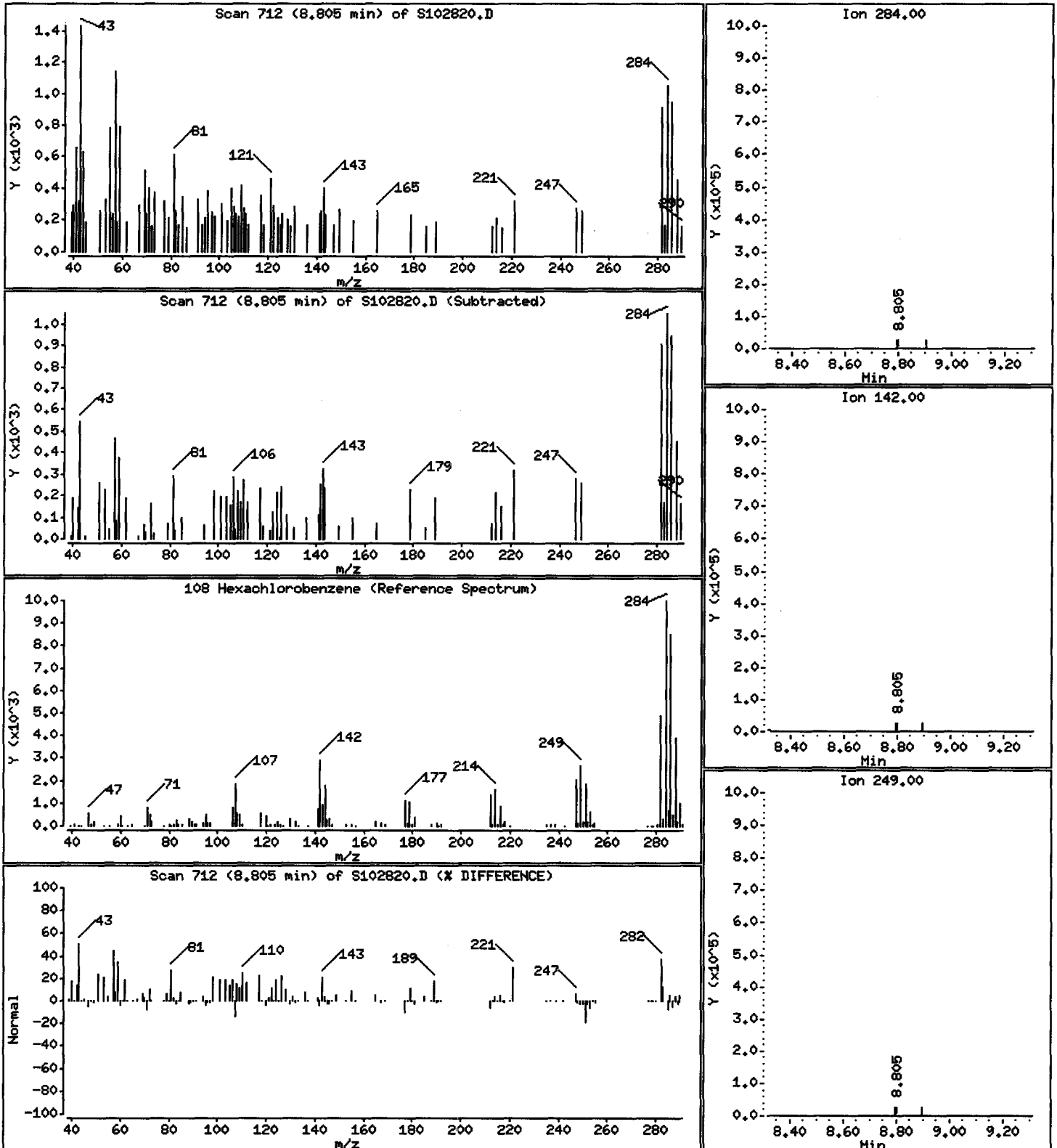
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.4955 ug/L



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 : 102910.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
29-OCT-2010	11:50	srs	HSL_050 ug/ml CS-4	QC001.D	NA	NA	NA		
29-OCT-2010	12:13	srs	DFTPP 50ug/ml	DFT1029.D	NA	NA	NA		
29-OCT-2010	12:33	srs	HSL_050 ug/ml CS-4	HSL1029.D	NA	NA	NA		
29-OCT-2010	12:58	srs	AP9_050 ug/ml CS-4	AP91029.D	NA	NA	NA		
29-OCT-2010	13:38	srs	L851P1AA G0J270000-211B	S102901.D	1000 mL	1 mL	1	QL	
29-OCT-2010	14:03	srs	L84NR1AA G0J260480-10	S102902.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	14:28	srs	L84Q51AA G0J260480-19	S102903.D	1000 Sa	1 mL	1	JZ	
29-OCT-2010	14:53	srs	100P0256	S102904.D	30 g	1 mL	1	QL	
29-OCT-2010	15:18	srs	100P0266	S102905.D	30 g	1 mL	1	QL	
29-OCT-2010	15:43	srs	L851P1AC G0J270000-211C	S102906.D	1000 mL	1 mL	1	QL	
29-OCT-2010	16:08	srs	L75H11DG G0J070567-4S	S102907.D	1030.14 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	16:33	srs	L75H11DH G0J070567-4D	S102908.D	1035.35 mL	1 mL	1	QL	
29-OCT-2010	16:58	srs	L75H12C4 G0J070567-4	S102909.D	1033.28 mL	1 mL	1	QL	
29-OCT-2010	17:23	srs	L75HG2AW G0J070567-1	S102910.D	935.93 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	17:48	srs	L75HX2AW G0J070567-2	S102911.D	997.14 mL	1 mL	1	QL	
29-OCT-2010	18:13	srs	L75H02AW G0J070567-3	S102912.D	964.69 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	18:38	srs	L75JE2A0 G0J070567-5	S102913.D	1040.44 mL	1 mL	1	QL	
29-OCT-2010	19:03	srs	L75JN2AV G0J070567-6	S102914.D	1046.15 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	19:28	srs	L75JR2AW G0J070567-7	S102915.D	1038.74 mL	1 mL	1	QL	
29-OCT-2010	19:53	srs	L75JT2AW G0J070567-8	S102916.D	1051.15 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	20:18	srs	L75JV2AW G0J070567-9	S102917.D	1043.08 mL	1 mL	1	QL	
29-OCT-2010	20:43	srs	L75JW2AW G0J070567-10	S102918.D	1043.33 mL	1 mL	1	QL	
29-OCT-2010	21:08	srs	L75J02AW G0J070567-11	S102919.D	1042.26 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	21:33	srs	L75J12AW G0J070567-12	S102920.D	1011.27 mL	1 mL	1	QL	RI: Sure ↓
29-OCT-2010	21:58	srs	L75J22AW G0J070567-13	S102921.D	990.36 mL	1 mL	1	QL	
29-OCT-2010	22:23	srs	L75J32AW G0J070567-14	S102922.D	974.85 mL	1 mL	1	QL	RI: Sure ↓

Instrument: SV5 _____

ICAL Date: 10/02/10 _____

DFTPP ID: DFT1029

Initiator/Date: SRS-10/29/10 _____

Standard ID: HSL1029

Reviewer/Date: *Don Zy 11/1/10*

NCM #: _____

I: 8270C Criteria

	Initiated	Reviewed
Log Book page included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV compared to correct ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tune documentation is present and meets criteria.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual re-integrations are checked, initialed and hardcopies included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention time correct for Isomers and all other analytes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Samples analyzed within 12 hours of Tune time.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tailing and degradation criteria are met.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spot check manual integrations in Target. Analyte checked: <i>Indeno(1,2,3-cd)pyrene</i>	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 OAPP Criteria

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

V: DOD OSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be $\leq 20\%$ D.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RRFs for SPCCs must meet minimum response factor criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIM: All analytes must be $\leq 20\%$	<input 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:

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 29-OCT-2010 12:33
 Lab File ID: HSL1029.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\102910.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.40992	1.40356	1.40356	0.010	-0.45106	50.00000	Averaged
8 Phenol-d5	1.77296	1.82098	1.82098	0.010	2.70816	50.00000	Averaged
9 2-Chlorophenol-d4	1.55698	1.59832	1.59832	0.010	2.65510	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.98513	1.01524	1.01524	0.010	3.05639	50.00000	Averaged
11 Nitrobenzene-d5	0.33879	0.34054	0.34054	0.010	0.51377	50.00000	Averaged
12 2-Fluorobiphenyl	1.28852	1.27745	1.27745	0.010	-0.85971	50.00000	Averaged
13 2,4,6-Tribromophenol	0.17381	0.18009	0.18009	0.010	3.60844	50.00000	Averaged
14 Terphenyl-d14	0.78789	0.80181	0.80181	0.010	1.76655	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.96923	0.96923	0.010	5.17463	50.00000	Averaged
16 Pyridine	1.54111	1.46123	1.46123	0.010	-5.18323	50.00000	Averaged
23 Aniline	2.25673	2.31720	2.31720	0.010	2.67969	50.00000	Averaged
24 Phenol	2.03729	2.05377	2.05377	0.010	0.80896	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.42859	1.47504	1.47504	0.010	3.25093	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.58202	1.58202	0.010	1.16465	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.70625	1.70625	0.010	0.16900	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.81612	1.81612	0.010	1.96152	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.06791	1.06791	0.010	1.60810	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.65624	1.65624	0.010	1.14690	50.00000	Averaged
32 2-Methylphenol	1.43012	1.43040	1.43040	0.010	0.01961	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.16947	2.16947	0.010	-4.58203	50.00000	Averaged
34 4-Methylphenol	1.51904	1.53549	1.53549	0.010	1.08273	50.00000	Averaged
36 Hexachloroethane	0.60636	0.61853	0.61853	0.010	2.00592	50.00000	Averaged
37 N-Nitrosodipropylamine	1.01180	1.03517	1.03517	0.050	2.30976	50.00000	Averaged
42 Nitrobenzene	0.33116	0.32973	0.32973	0.010	-0.43135	50.00000	Averaged
44 Isophorone	0.63679	0.64167	0.64167	0.010	0.76609	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20180	0.20180	0.010	2.70757	20.00000	Averaged
46 2,4-Dimethylphenol	0.34911	0.34470	0.34470	0.010	-1.26315	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.37619	0.37619	0.010	-3.31351	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.27137	0.27137	0.010	0.46873	20.00000	Averaged
50 Benzoic Acid	0.19324	0.19737	0.19737	0.010	2.13655	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.29961	0.29961	0.010	2.44547	50.00000	Averaged
52 Naphthalene	1.10443	1.10045	1.10045	0.010	-0.36000	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.43044	0.43044	0.010	-0.56302	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.14940	0.14940	0.010	4.38258	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.30535	0.30535	0.010	1.23112	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.70650	0.70650	0.010	1.83363	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.29443	0.29443	0.050	-1.35032	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.32351	0.32351	0.010	1.37042	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.34380	0.35571	0.35571	0.010	3.46293	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.10919	1.10919	0.010	-1.46766	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.32910	0.32910	0.010	-3.54131	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.30454	1.30454	0.010	0.65376	50.00000	Averaged

Manual calculation for Indeno(1,2,3-cd)pyrene:

$$\frac{582467}{500729} \times \frac{40}{50} = 0.93059$$

R7 11/1/10

SH
10/29/10

TestAmerica West Sacramento
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 29-OCT-2010 12:33
 Lab File ID: HSL1029.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\102910.B\8270f.m

COMPOUND	RF50		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
77 Acenaphthylene	1.96037	1.96230	1.96230	0.010	0.09861	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.31212	0.31212	0.010	3.36115	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.37427	0.37427	0.010	-0.69981	50.00000	Averaged
81 Acenaphthene	1.24787	1.20003	1.20003	0.010	-3.83392	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	47.41871	0.16687	0.050	-5.16258	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.61969	1.61969	0.010	-2.20002	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.15505	0.15505	0.050	-0.82862	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.42027	0.42027	0.010	6.03987	50.00000	Averaged
91 Fluorene	1.37139	1.35950	1.35950	0.010	-0.86743	50.00000	Averaged
92 Diethylphthalate	1.32699	1.34671	1.34671	0.010	1.48575	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.58623	0.58623	0.010	2.81300	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.36592	0.36592	0.010	-2.06014	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	50.09546	0.14259	0.010	0.19092	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.62163	0.62163	0.010	2.53040	20.00000	Averaged
100 Azobenzene	0.78660	0.76714	0.76714	0.010	-2.47427	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.20885	0.20885	0.010	6.95492	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22308	0.22308	0.010	2.30120	50.00000	Averaged
110 Pentachlorophenol	50.00000	50.27121	0.13090	0.010	0.54242	0.000e+000	Linear
114 Phenanthrene	1.26074	1.22119	1.22119	0.010	-3.13759	50.00000	Averaged
115 Anthracene	1.25955	1.26429	1.26429	0.010	0.37676	50.00000	Averaged
118 Carbazole	1.15061	1.15637	1.15637	0.010	0.50085	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.39031	1.39031	0.010	0.42582	50.00000	Averaged
126 Fluoranthene	1.12969	1.14223	1.14223	0.010	1.10998	20.00000	Averaged
127 Benzidine	0.81067	0.85393	0.85393	0.010	5.33618	50.00000	Averaged
128 Pyrene	1.25025	1.25701	1.25701	0.010	0.54059	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.70192	0.70192	0.010	-1.91743	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.62704	0.62704	0.010	0.06543	50.00000	Averaged
138 Benzo (a) Anthracene	1.06548	1.07192	1.07192	0.010	0.60428	50.00000	Averaged
139 Chrysene	1.08994	1.08861	1.08861	0.010	-0.12183	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.40874	0.40874	0.010	1.70415	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.86316	0.85667	0.85667	0.010	-0.75160	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.42138	1.42138	0.010	3.01748	20.00000	Averaged
144 Benzo (b) fluoranthene	0.90549	0.98588	0.98588	0.010	8.87848	50.00000	Averaged
145 Benzo (k) fluoranthene	1.16236	1.12436	1.12436	0.010	-3.26889	50.00000	Averaged
147 Benzo (e) pyrene	0.94425	0.98398	0.98398	0.010	4.20839	50.00000	Averaged
148 Benzo (a) pyrene	1.02655	1.04560	1.04560	0.010	1.85613	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.83029	0.93059	0.93059	0.010	12.08035	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.92758	0.99495	0.99495	0.010	7.26324	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00427	1.05486	1.05486	0.010	5.03710	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.11025	2.11025	0.010	2.05032	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102910.B\HSL1029.D
 Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 29-OCT-2010 12:33
 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\102910.B\8270f.m
 Meth Date : 29-Oct-2010 12:59 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.799	3.799	(1.000)	130744	40.0000	
* 2 Naphthalene-d8	136	5.219	5.219	(1.000)	574061	40.0000	
* 3 Acenaphthene-d10	164	7.312	7.312	(1.000)	317518	40.0000	
* 4 Phenanthrene-d10	188	9.219	9.219	(1.000)	495279	40.0000	
* 5 Chrysene-d12	240	13.561	13.561	(1.000)	493986	40.0000	
* 6 Perylene-d12	264	15.934	15.934	(1.000)	500729	40.0000	
\$ 7 2-Fluorophenol	112	2.587	2.587	(0.681)	229384	50.0000	49.77
\$ 8 Phenol-d5	99	3.468	3.468	(0.913)	297602	50.0000	51.35
\$ 9 2-Chlorophenol-d4	132	3.602	3.602	(0.948)	261214	50.0000	51.33
\$ 10 1,2-Dichlorobenzene-d4	152	4.006	4.006	(1.055)	165920	50.0000	51.53
\$ 11 Nitrobenzene-d5	82	4.431	4.431	(0.849)	244360	50.0000	50.26
\$ 12 2-Fluorobiphenyl	172	6.525	6.525	(0.892)	507015	50.0000	49.57
\$ 13 2,4,6-Tribromophenol	330	8.307	8.307	(1.136)	71476	50.0000	51.80
\$ 14 Terphenyl-d14	244	11.810	11.810	(0.871)	495105	50.0000	50.88
15 N-Nitrosodimethylamine	74	1.561	1.561	(0.411)	158401	50.0000	52.59
16 Pyridine	79	1.581	1.581	(0.416)	238809	50.0000	47.41
23 Aniline	93	3.509	3.509	(0.924)	378700	50.0000	51.34
24 Phenol	94	3.478	3.478	(0.915)	335647	50.0000	50.40
26 Bis(2-chloroethyl) ether	93	3.571	3.571	(0.940)	241065	50.0000	51.62
27 2-Chlorophenol	128	3.613	3.613	(0.951)	258550	50.0000	50.58
28 1,3-Dichlorobenzene	146	3.768	3.768	(0.992)	278853	50.0000	50.08
29 1,4-Dichlorobenzene	146	3.820	3.820	(1.005)	296808	50.0000	50.98
30 Benzyl Alcohol	108	3.965	3.965	(1.044)	174529	50.0000	50.80
31 1,2-Dichlorobenzene	146	4.017	4.017	(1.057)	270680	50.0000	50.57
32 2-Methylphenol	108	4.110	4.110	(1.082)	233771	50.0000	50.01
33 2,2'-oxybis(1-Chloropropane)	45	4.141	4.141	(1.090)	354557	50.0000	47.71
34 4-Methylphenol	108	4.276	4.276	(1.125)	250945	50.0000	50.54
36 Hexachloroethane	117	4.348	4.348	(1.145)	101086	50.0000	51.00
37 N-Nitrosodipropylamine	70	4.297	4.297	(1.131)	169178	50.0000	51.15
42 Nitrobenzene	77	4.452	4.452	(0.853)	236610	50.0000	49.78
44 Isophorone	82	4.711	4.711	(0.903)	460445	50.0000	50.38
45 2-Nitrophenol	139	4.815	4.815	(0.923)	144805	50.0000	51.35
46 2,4-Dimethylphenol	107	4.867	4.867	(0.932)	247352	50.0000	49.37

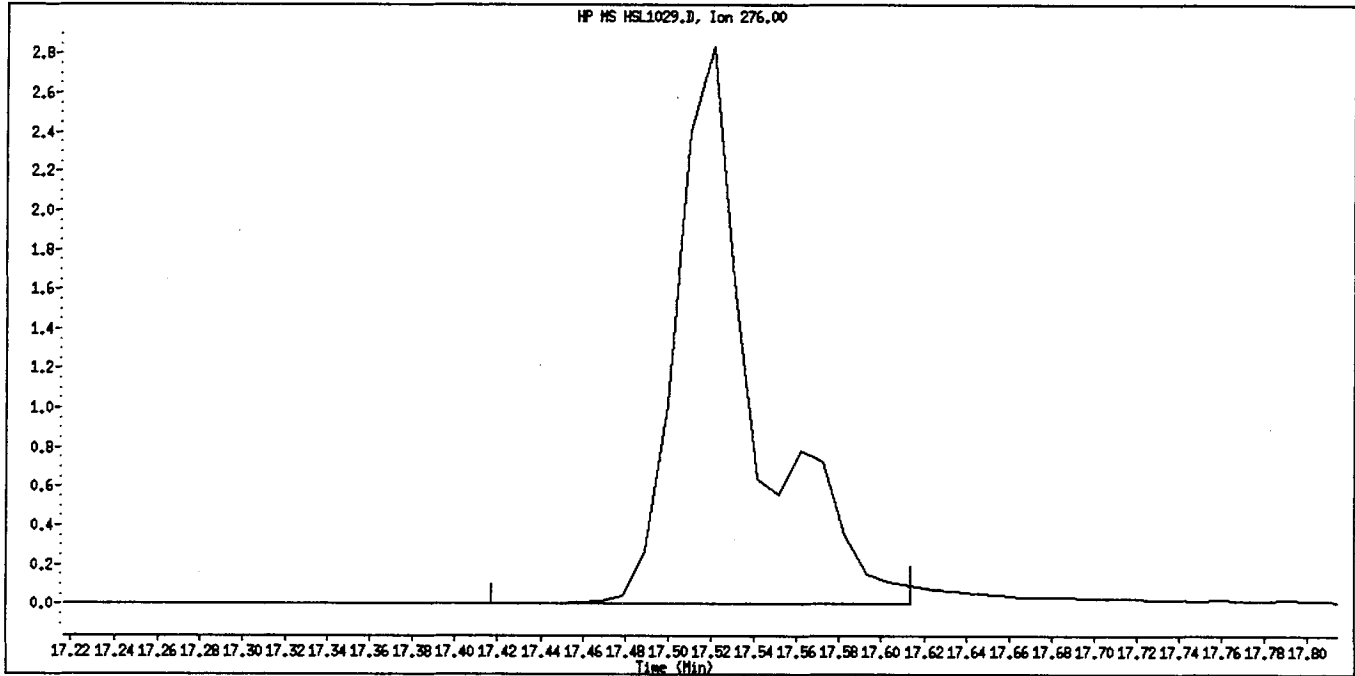
Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy)methane	93		4.981	4.981	(0.954)	269946	50.0000	48.34	
49 2,4-Dichlorophenol	162		5.074	5.074	(0.972)	194726	50.0000	50.23	
50 Benzoic Acid	122		4.981	4.981	(0.954)	141628	50.0000	51.07	
51 1,2,4-Trichlorobenzene	180		5.177	5.177	(0.992)	214991	50.0000	51.22	
52 Naphthalene	128		5.240	5.240	(1.004)	789657	50.0000	49.82	
54 4-Chloroaniline	127		5.343	5.343	(1.024)	308872	50.0000	49.72	
57 Hexachlorobutadiene	225		5.468	5.468	(1.048)	107205	50.0000	52.19	
60 4-Chloro-3-Methylphenol	107		5.924	5.924	(1.135)	219111	50.0000	50.62	
63 2-Methylnaphthalene	142		6.048	6.048	(1.159)	506965	50.0000	50.92	
66 Hexachlorocyclopentadiene	237		6.328	6.328	(0.865)	116857	50.0000	49.32	
69 2,4,6-Trichlorophenol	196		6.431	6.431	(0.880)	128399	50.0000	50.68	
70 2,4,5-Trichlorophenol	196		6.473	6.473	(0.885)	141179	50.0000	51.73	
71 2-Chloronaphthalene	162		6.628	6.628	(0.906)	440234	50.0000	49.27	
73 2-Nitroaniline	65		6.794	6.794	(0.929)	130620	50.0000	48.23	
76 Dimethylphthalate	163		7.074	7.074	(0.967)	517767	50.0000	50.33	
77 Acenaphthylene	152		7.126	7.126	(0.974)	778832	50.0000	50.05	
79 2,6-Dinitrotoluene	165		7.146	7.146	(0.977)	123878	50.0000	51.68	
80 3-Nitroaniline	138		7.302	7.302	(0.999)	148546	50.0000	49.65	
81 Acenaphthene	153		7.354	7.354	(1.006)	476287	50.0000	48.08	
82 2,4-Dinitrophenol	184		7.426	7.426	(1.016)	66232	50.0000	47.42	
83 Dibenzofuran	168		7.540	7.540	(1.031)	642849	50.0000	48.90	
84 4-Nitrophenol	109		7.530	7.530	(1.030)	61537	50.0000	49.58	
86 2,4-Dinitrotoluene	165		7.613	7.613	(1.041)	166804	50.0000	53.02	
91 Fluorene	166		7.965	7.965	(1.089)	539581	50.0000	49.57	
92 Diethylphthalate	149		7.944	7.944	(1.086)	534505	50.0000	50.74	
93 4-Chlorophenyl-phenylether	204		7.986	7.986	(1.092)	232673	50.0000	51.41	
94 4-Nitroaniline	138		8.058	8.058	(1.102)	145231	50.0000	48.97	
97 4,6-Dinitro-2-methylphenol	198		8.110	8.110	(0.880)	88280	50.0000	50.10	
98 N-Nitrosodiphenylamine	169		8.152	8.152	(0.884)	451041	58.6000	60.08	
100 Azobenzene	77		8.183	8.183	(0.888)	474935	50.0000	48.76	
101 4-Bromophenyl-phenylether	248		8.618	8.618	(0.935)	129297	50.0000	53.48	
108 Hexachlorobenzene	284		8.805	8.805	(0.955)	138111	50.0000	51.15	
110 Pentachlorophenol	266		9.064	9.064	(0.983)	81039	50.0000	50.27	
114 Phenanthrene	178		9.250	9.250	(1.003)	756035	50.0000	48.43	
115 Anthracene	178		9.312	9.312	(1.010)	782721	50.0000	50.19	
118 Carbazole	167		9.582	9.582	(1.039)	715908	50.0000	50.25	
120 Di-n-Butylphthalate	149		10.276	10.276	(1.115)	860741	50.0000	50.21	
126 Fluoranthene	202		11.095	11.095	(1.203)	707152	50.0000	50.55	
127 Benzidine	184		11.375	11.375	(0.839)	527288	50.0000	52.67	
128 Pyrene	202		11.447	11.447	(0.844)	776184	50.0000	50.27	
134 3,3'-dimethylbenzidine	212		12.660	12.660	(0.934)	433421	50.0000	49.04	
136 Butylbenzylphthalate	149		12.784	12.784	(0.943)	387188	50.0000	50.03	
138 Benzo (a) Anthracene	228		13.540	13.540	(0.998)	661889	50.0000	50.30	
139 Chrysene	228		13.603	13.603	(1.003)	672197	50.0000	49.94	
140 3,3'-Dichlorobenzidine	252		13.582	13.582	(1.002)	252390	50.0000	50.85	
141 bis (2-ethylhexyl) Phthalate	149		13.903	13.903	(1.025)	528981	50.0000	49.62	
142 Di-n-octylphthalate	149		14.960	14.960	(1.103)	877679	50.0000	51.51	
144 Benzo (b) fluoranthene	252		15.354	15.354	(0.964)	617076	50.0000	54.44	
145 Benzo (k) fluoranthene	252		15.395	15.395	(0.966)	703751	50.0000	48.36	
147 Benzo (e) pyrene	252		15.768	15.768	(0.990)	615887	50.0000	52.10	
148 Benzo (a) pyrene	252		15.841	15.841	(0.994)	654455	50.0000	50.93	
151 Indeno (1,2,3-cd) pyrene	276		17.520	17.520	(1.100)	582467	50.0000	56.04 (M)	
152 Dibenzo (a,h) anthracene	278		17.561	17.561	(1.102)	622749	50.0000	53.63	
153 Benzo (g,h,i) perylene	276		17.924	17.924	(1.125)	660247	50.0000	52.52	

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
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M 162 benzo b,k Fluoranthene Totals	252					1320827	50.0000	

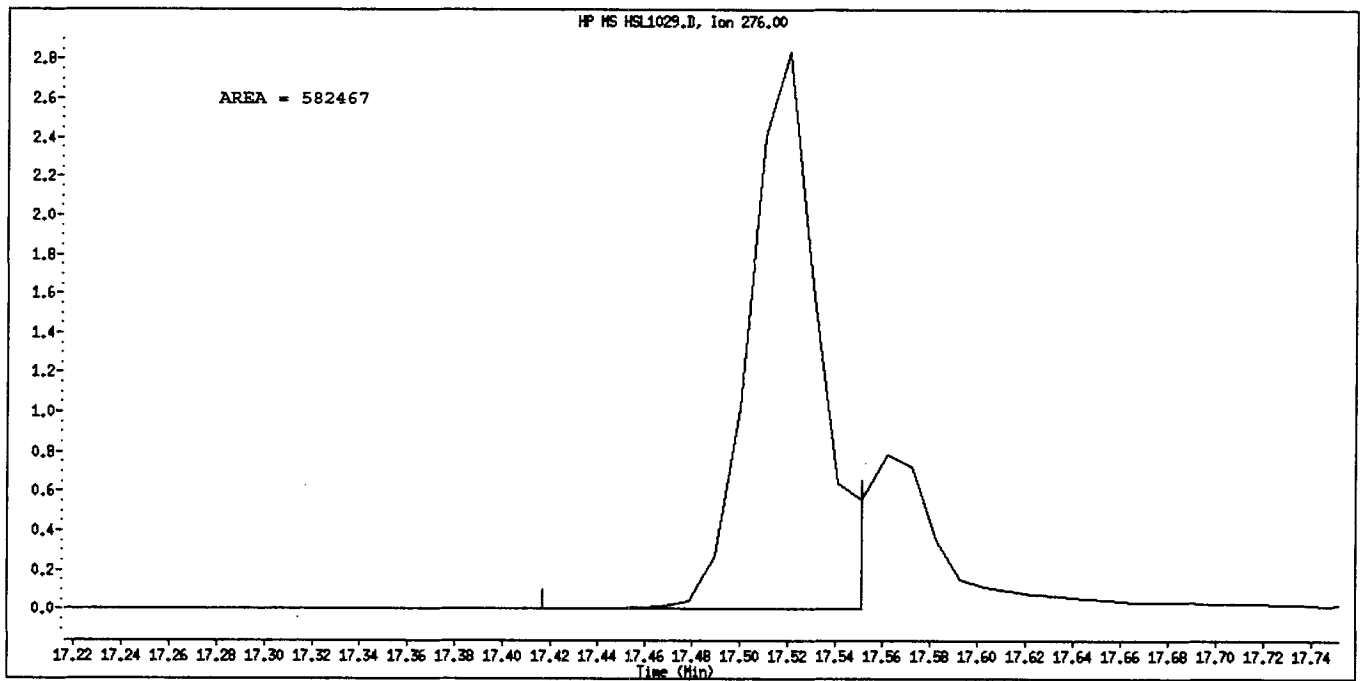
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL1029.D
Inj. Date and Time: 29-OCT-2010 12:33
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/29/2010



Original Integration



Manual Integration

9/10/29/10

Manually Integrated By: *semivca S/S 10/29/10*
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102910.B\HSL1029.D
 Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
 Inj Date : 29-OCT-2010 12:33
 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\102910.B\8270f.m
 Meth Date : 29-Oct-2010 12:57 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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152		3.799	3.799	(1.000)	130744	40.0000	
* 2 Naphthalene-d8	136		5.219	5.219	(1.000)	574061	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.312	(1.000)	317518	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.219	(1.000)	495279	40.0000	
* 5 Chrysene-d12	240		13.561	13.561	(1.000)	493986	40.0000	
* 6 Perylene-d12	264		15.934	15.934	(1.000)	500729	40.0000	
\$ 7 2-Fluorophenol	112		2.587	2.587	(0.681)	229384	50.0000	49.77
\$ 8 Phenol-d5	99		3.468	3.468	(0.913)	297602	50.0000	51.35
\$ 9 2-Chlorophenol-d4	132		3.602	3.602	(0.948)	261214	50.0000	51.33
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.055)	165920	50.0000	51.53
\$ 11 Nitrobenzene-d5	82		4.431	4.431	(0.849)	244360	50.0000	50.26
\$ 12 2-Fluorobiphenyl	172		6.525	6.525	(0.892)	507015	50.0000	49.57
\$ 13 2,4,6-Tribromophenol	330		8.307	8.307	(1.136)	71476	50.0000	51.80
\$ 14 Terphenyl-d14	244		11.810	11.810	(0.871)	495105	50.0000	50.88
15 N-Nitrosodimethylamine	74		1.561	1.561	(0.411)	158401	50.0000	52.59
16 Pyridine	79		1.581	1.581	(0.416)	238809	50.0000	47.41
23 Aniline	93		3.509	3.509	(0.924)	378700	50.0000	51.34
24 Phenol	94		3.478	3.478	(0.915)	335647	50.0000	50.40
26 Bis(2-chloroethyl) ether	93		3.571	3.571	(0.940)	241065	50.0000	51.62
27 2-Chlorophenol	128		3.613	3.613	(0.951)	258550	50.0000	50.58
28 1,3-Dichlorobenzene	146		3.768	3.768	(0.992)	278853	50.0000	50.08
29 1,4-Dichlorobenzene	146		3.820	3.820	(1.005)	296808	50.0000	50.98
30 Benzyl Alcohol	108		3.965	3.965	(1.044)	174529	50.0000	50.80
31 1,2-Dichlorobenzene	146		4.017	4.017	(1.057)	270680	50.0000	50.57
32 2-Methylphenol	108		4.110	4.110	(1.082)	233771	50.0000	50.01
33 2,2'-oxybis(1-Chloropropane)	45		4.141	4.141	(1.090)	354557	50.0000	47.71
34 4-Methylphenol	108		4.276	4.276	(1.125)	250945	50.0000	50.54
36 Hexachloroethane	117		4.348	4.348	(1.145)	101086	50.0000	51.00
37 N-Nitrosodipropylamine	70		4.297	4.297	(1.131)	169178	50.0000	51.15
42 Nitrobenzene	77		4.452	4.452	(0.853)	236610	50.0000	49.78
44 Isophorone	82		4.711	4.711	(0.903)	460445	50.0000	50.38
45 2-Nitrophenol	139		4.815	4.815	(0.923)	144805	50.0000	51.35
46 2,4-Dimethylphenol	107		4.867	4.867	(0.932)	247352	50.0000	49.37

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	4.981	4.981	(0.954)	269946	50.0000	48.34
49 2,4-Dichlorophenol	162	5.074	5.074	(0.972)	194726	50.0000	50.23
50 Benzoic Acid	122	4.981	4.981	(0.954)	141628	50.0000	51.07
51 1,2,4-Trichlorobenzene	180	5.177	5.177	(0.992)	214991	50.0000	51.22
52 Naphthalene	128	5.240	5.240	(1.004)	789657	50.0000	49.82
54 4-Chloroaniline	127	5.343	5.343	(1.024)	308872	50.0000	49.72
57 Hexachlorobutadiene	225	5.468	5.468	(1.048)	107205	50.0000	52.19
60 4-Chloro-3-Methylphenol	107	5.924	5.924	(1.135)	219111	50.0000	50.62
63 2-Methylnaphthalene	142	6.048	6.048	(1.159)	506965	50.0000	50.92
66 Hexachlorocyclopentadiene	237	6.328	6.328	(0.865)	116857	50.0000	49.32
69 2,4,6-Trichlorophenol	196	6.431	6.431	(0.880)	128399	50.0000	50.68
70 2,4,5-Trichlorophenol	196	6.473	6.473	(0.885)	141179	50.0000	51.73
71 2-Chloronaphthalene	162	6.628	6.628	(0.906)	440234	50.0000	49.27
73 2-Nitroaniline	65	6.794	6.794	(0.929)	130620	50.0000	48.23
76 Dimethylphthalate	163	7.074	7.074	(0.967)	517767	50.0000	50.33
77 Acenaphthylene	152	7.126	7.126	(0.974)	778832	50.0000	50.05
79 2,6-Dinitrotoluene	165	7.146	7.146	(0.977)	123878	50.0000	51.68
80 3-Nitroaniline	138	7.302	7.302	(0.999)	148546	50.0000	49.65
81 Acenaphthene	153	7.354	7.354	(1.006)	476287	50.0000	48.08
82 2,4-Dinitrophenol	184	7.426	7.426	(1.016)	66232	50.0000	47.42
83 Dibenzofuran	168	7.540	7.540	(1.031)	642849	50.0000	48.90
84 4-Nitrophenol	109	7.530	7.530	(1.030)	61537	50.0000	49.58
86 2,4-Dinitrotoluene	165	7.613	7.613	(1.041)	166804	50.0000	53.02
91 Fluorene	166	7.965	7.965	(1.089)	539581	50.0000	49.57
92 Diethylphthalate	149	7.944	7.944	(1.086)	534505	50.0000	50.74
93 4-Chlorophenyl-phenylether	204	7.986	7.986	(1.092)	232673	50.0000	51.41
94 4-Nitroaniline	138	8.058	8.058	(1.102)	145231	50.0000	48.97
97 4,6-Dinitro-2-methylphenol	198	8.110	8.110	(0.880)	88280	50.0000	50.10
98 N-Nitrosodiphenylamine	169	8.152	8.152	(0.884)	451041	58.6000	60.08
100 Azobenzene	77	8.183	8.183	(0.888)	474935	50.0000	48.76
101 4-Bromophenyl-phenylether	248	8.618	8.618	(0.935)	129297	50.0000	53.48
108 Hexachlorobenzene	284	8.805	8.805	(0.955)	138111	50.0000	51.15
110 Pentachlorophenol	266	9.064	9.064	(0.983)	81039	50.0000	50.27
114 Phenanthrene	178	9.250	9.250	(1.003)	756035	50.0000	48.43
115 Anthracene	178	9.312	9.312	(1.010)	782721	50.0000	50.19
118 Carbazole	167	9.582	9.582	(1.039)	715908	50.0000	50.25
120 Di-n-Butylphthalate	149	10.276	10.276	(1.115)	860741	50.0000	50.21
126 Fluoranthene	202	11.095	11.095	(1.203)	707152	50.0000	50.55
127 Benzidine	184	11.375	11.375	(0.839)	527288	50.0000	52.67
128 Pyrene	202	11.447	11.447	(0.844)	776184	50.0000	50.27
134 3,3'-dimethylbenzidine	212	12.660	12.660	(0.934)	433421	50.0000	49.04
136 Butylbenzylphthalate	149	12.784	12.784	(0.943)	387188	50.0000	50.03
138 Benzo(a)Anthracene	228	13.540	13.540	(0.998)	661889	50.0000	50.30
139 Chrysene	228	13.603	13.603	(1.003)	672197	50.0000	49.94
140 3,3'-Dichlorobenzidine	252	13.582	13.582	(1.002)	252390	50.0000	50.85
141 bis(2-ethylhexyl) Phthalate	149	13.903	13.903	(1.025)	528981	50.0000	49.62
142 Di-n-octylphthalate	149	14.960	14.960	(1.103)	877679	50.0000	51.51
144 Benzo(b)fluoranthene	252	15.354	15.354	(0.964)	617076	50.0000	54.44
145 Benzo(k)fluoranthene	252	15.395	15.395	(0.966)	703751	50.0000	48.36
147 Benzo(e)pyrene	252	15.768	15.768	(0.990)	615887	50.0000	52.10
148 Benzo(a)pyrene	252	15.841	15.841	(0.994)	654455	50.0000	50.93
151 Indeno(1,2,3-cd)pyrene	276	17.520	17.520	(1.100)	717677	50.0000	69.05
152 Dibenzo(a,h)anthracene	278	17.561	17.561	(1.102)	622749	50.0000	53.63
153 Benzo(g,h,i)perylene	276	17.924	17.924	(1.125)	660247	50.0000	52.52

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	---	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				1320827	50.0000	51.02 (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: HSL1029.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\102910.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

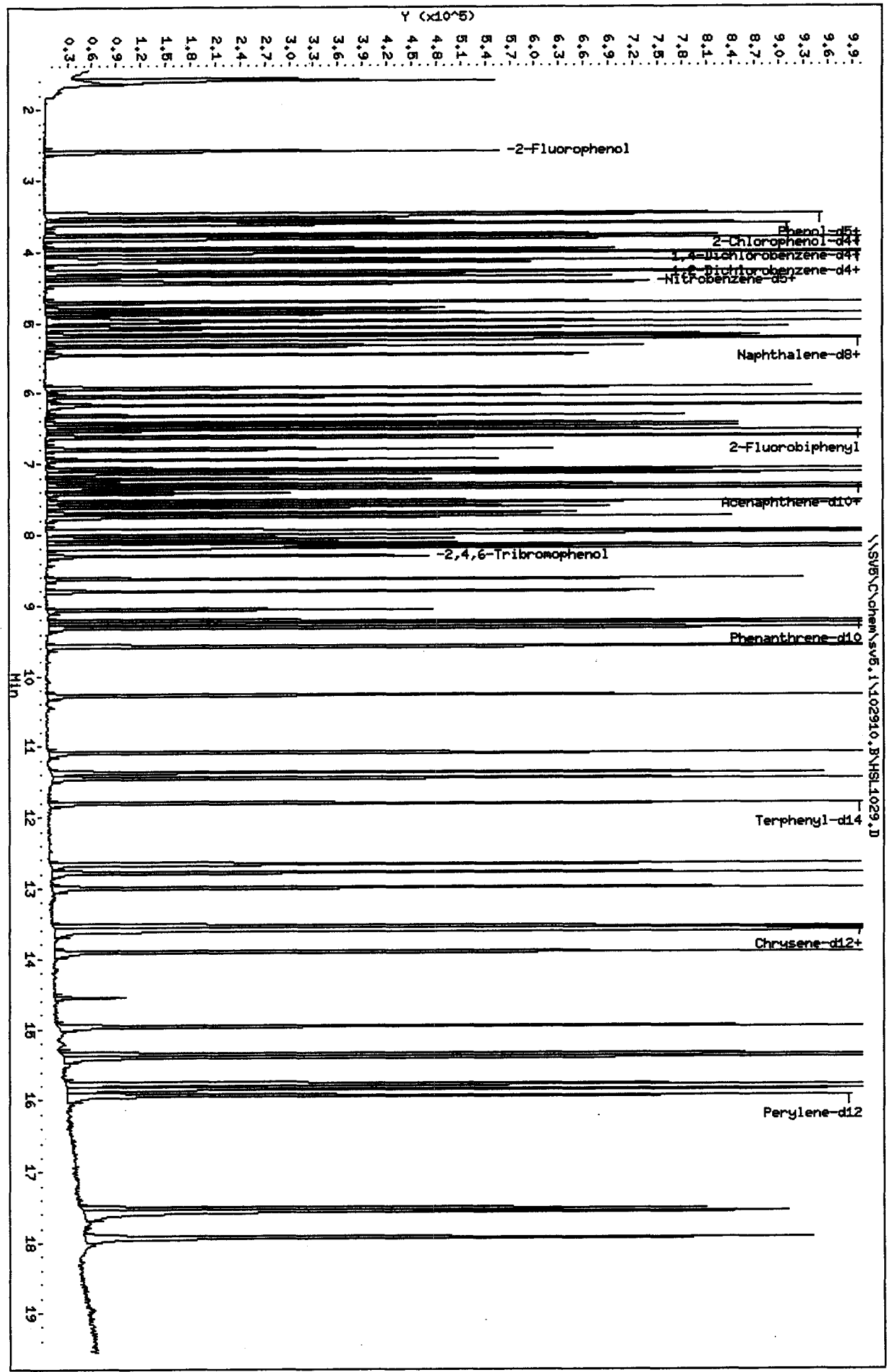
Calibration Date: 28-OCT-2010
 Calibration Time: 12:24
 Client Smp ID: 8270F.M
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	130744	6.62
2 Naphthalene-d8	530514	265257	1061028	574061	8.21
3 Acenaphthene-d10	282538	141269	565076	317518	12.38
4 Phenanthrene-d10	462722	231361	925444	495279	7.04
5 Chrysene-d12	435850	217925	871700	493986	13.34
6 Perylene-d12	422284	211142	844568	500729	18.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.80	3.30	4.30	3.80	0.00
2 Naphthalene-d8	5.22	4.72	5.72	5.22	0.00
3 Acenaphthene-d10	7.31	6.81	7.81	7.31	0.00
4 Phenanthrene-d10	9.22	8.72	9.72	9.22	0.00
5 Chrysene-d12	13.56	13.06	14.06	13.56	0.00
6 Perylene-d12	15.93	15.43	16.43	15.93	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.



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.8337462	5.000	PASS
Benzidine	0.4994361	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	264482	16.8	20.5	PASS

Sample //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D

 *** PASSED ***

SHW/2910

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.8337462	5.000	PASS
Benzidine	0.4994361	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	264482	16.8	20.5	PASS

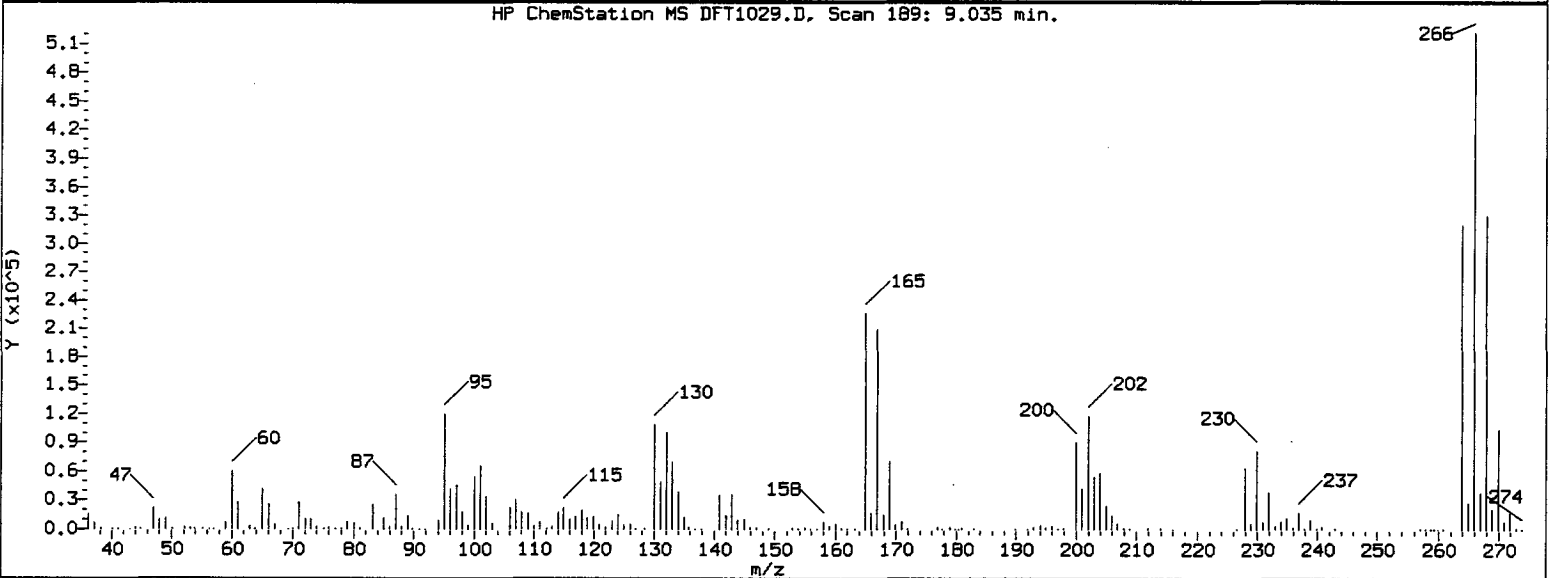
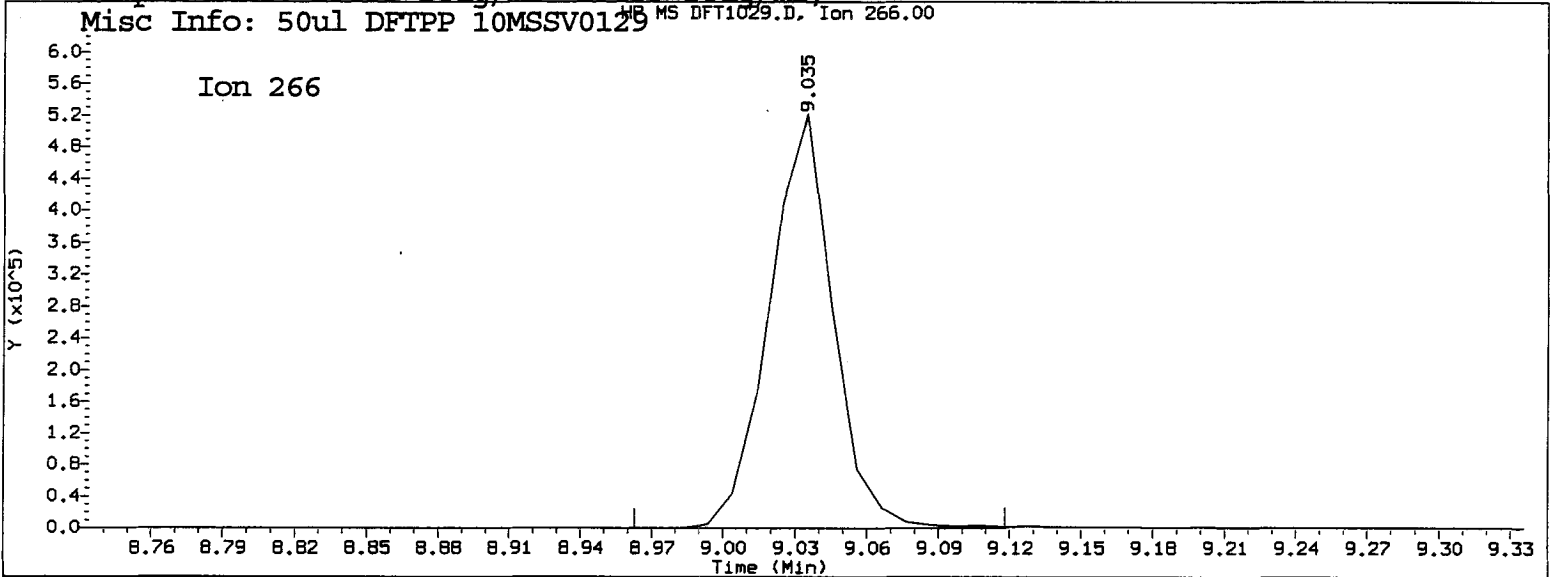
Sample //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D

 *** PASSED ***

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/29/2010 12:46

Datafile Analyzed: //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D
Method Used: \\SV5\C\chem\sv5.i\102910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 29-OCT-2010 12:13 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT1029.D, Ion 266.00



Pentachlorophenol

=====
Exp. RT = 9.056
Found RT = 9.035

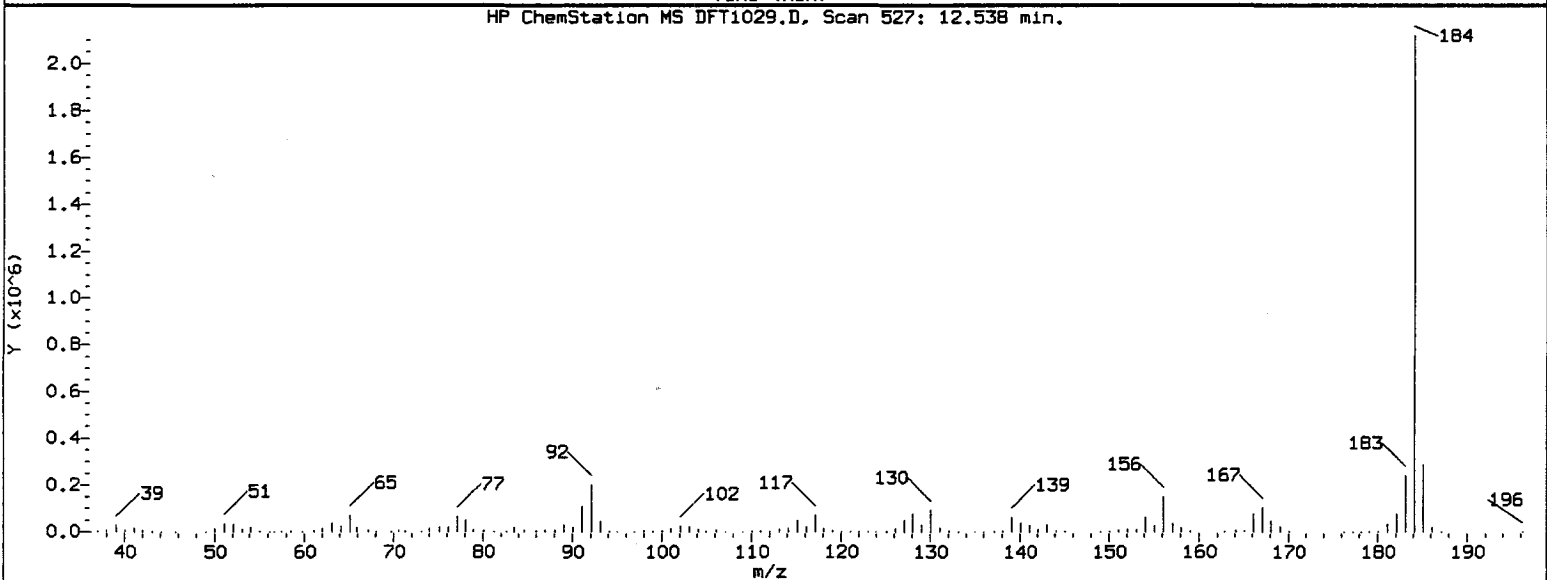
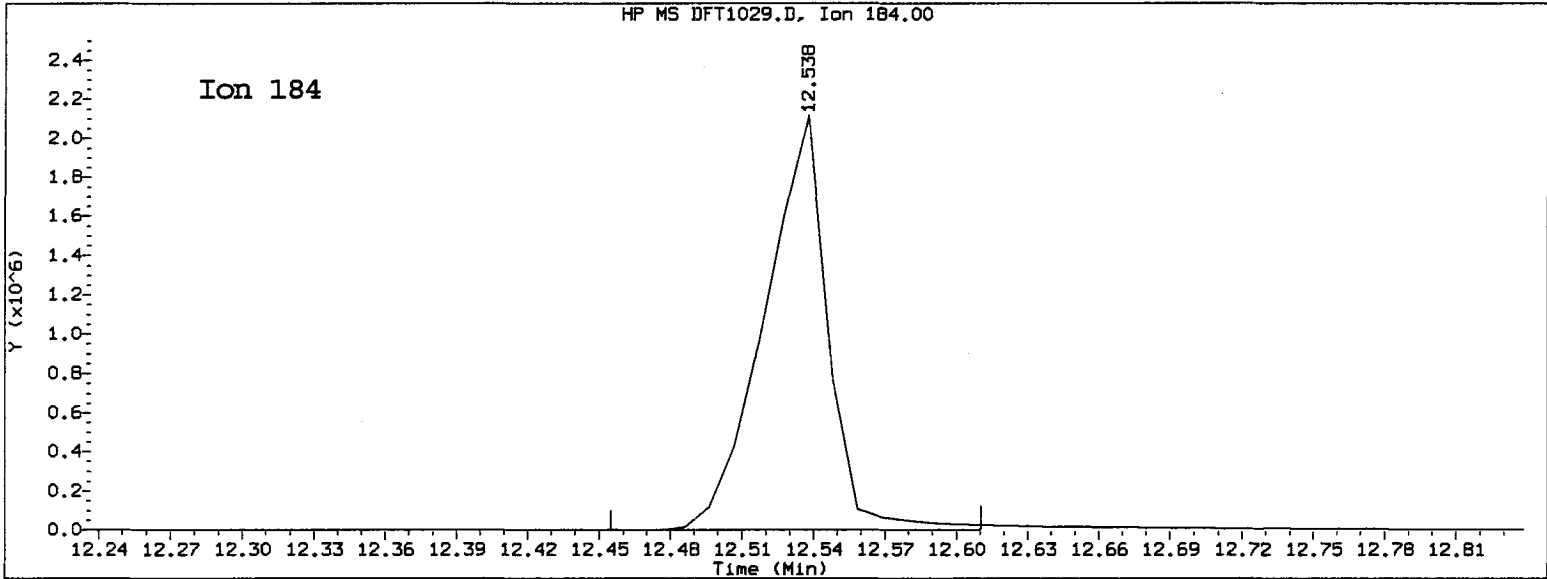
Time1 = 9.004681 Time2 = 9.0351 Time3 = 9.060461
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.834 Maximum Allowed = 5.0

Report Date: 10/29/2010 12:46

Datafile Analyzed: //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D
Method Used: \\SV5\C\chem\sv5.i\102910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 29-OCT-2010 12:13 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.558

Found RT = 12.538

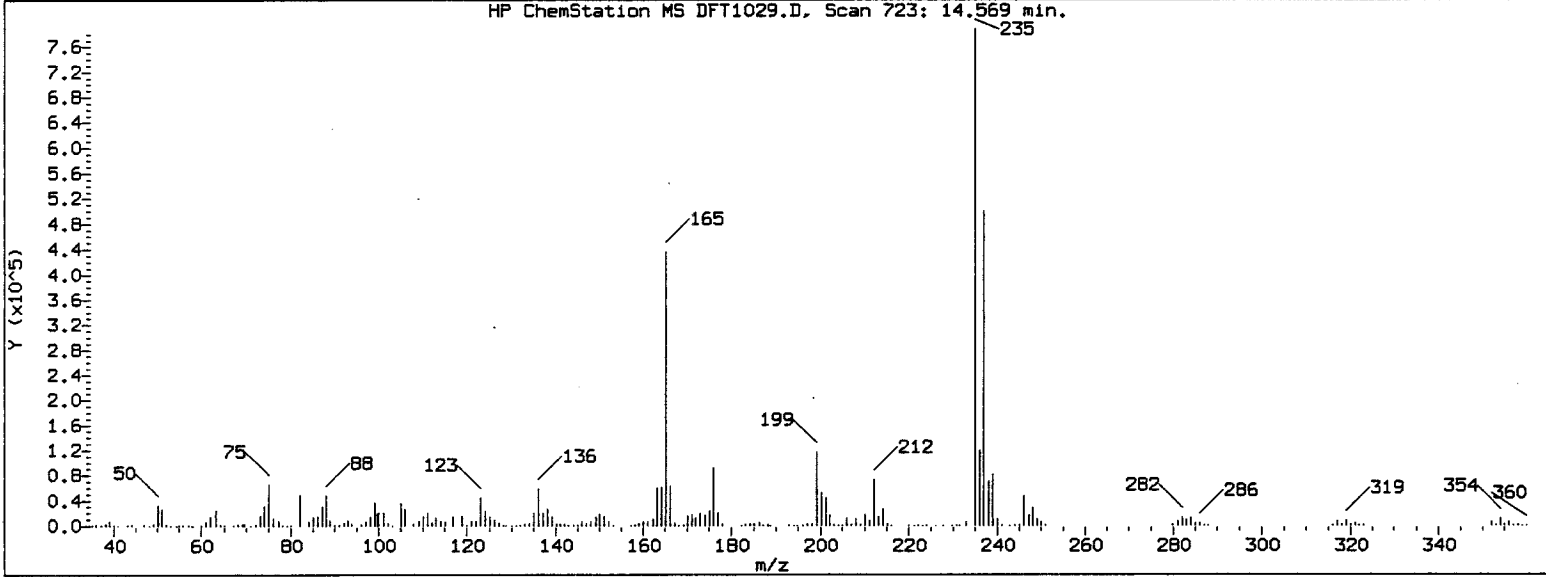
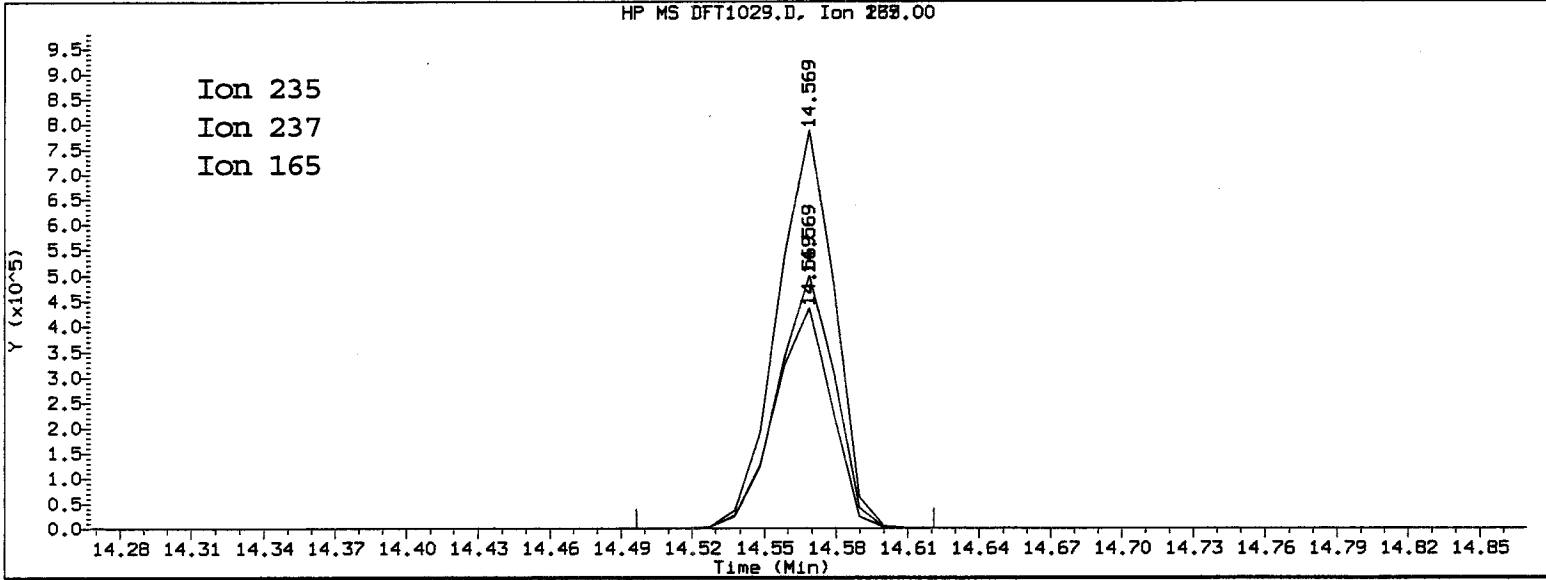
Time1 = 12.49951 Time2 = 12.5378 Time3 = 12.55693

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

Tailing factor for Benzidine OK

Tail Factor = 0.499 Maximum Allowed = 3.0

Datafile Analyzed: //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D
Method Used: \\SV5\C\chem\sv5.i\102910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 29-OCT-2010 12:13 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



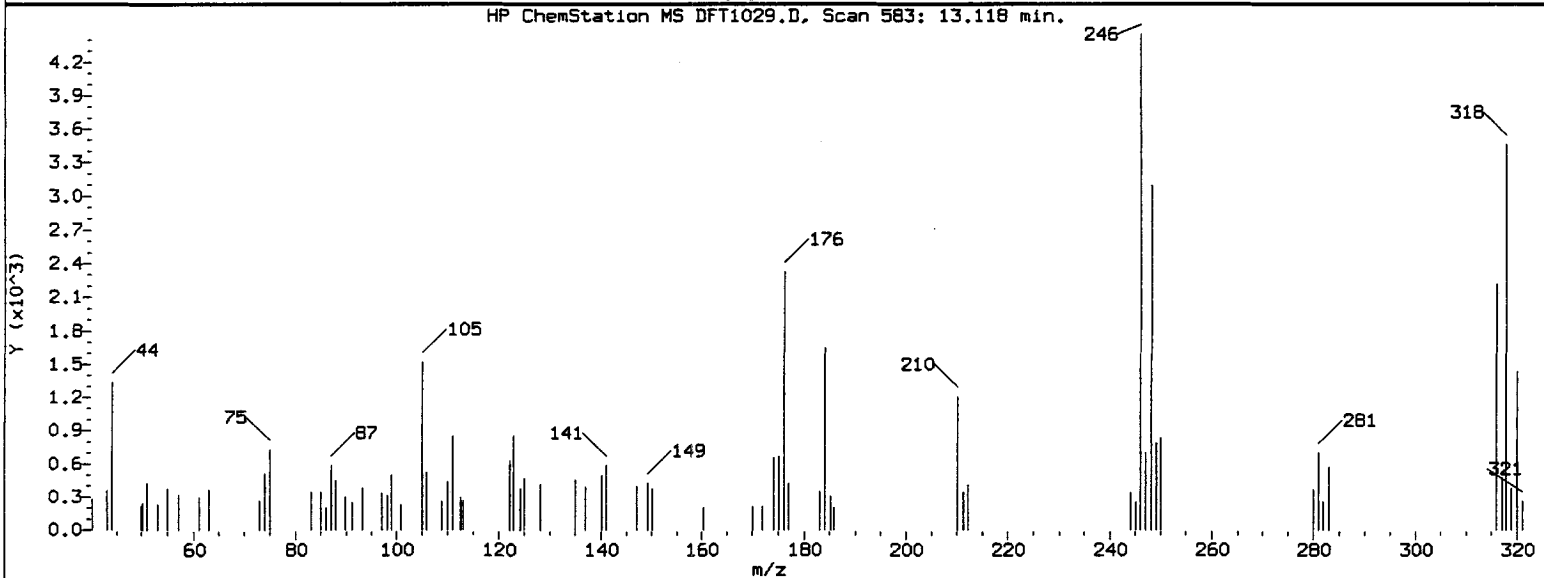
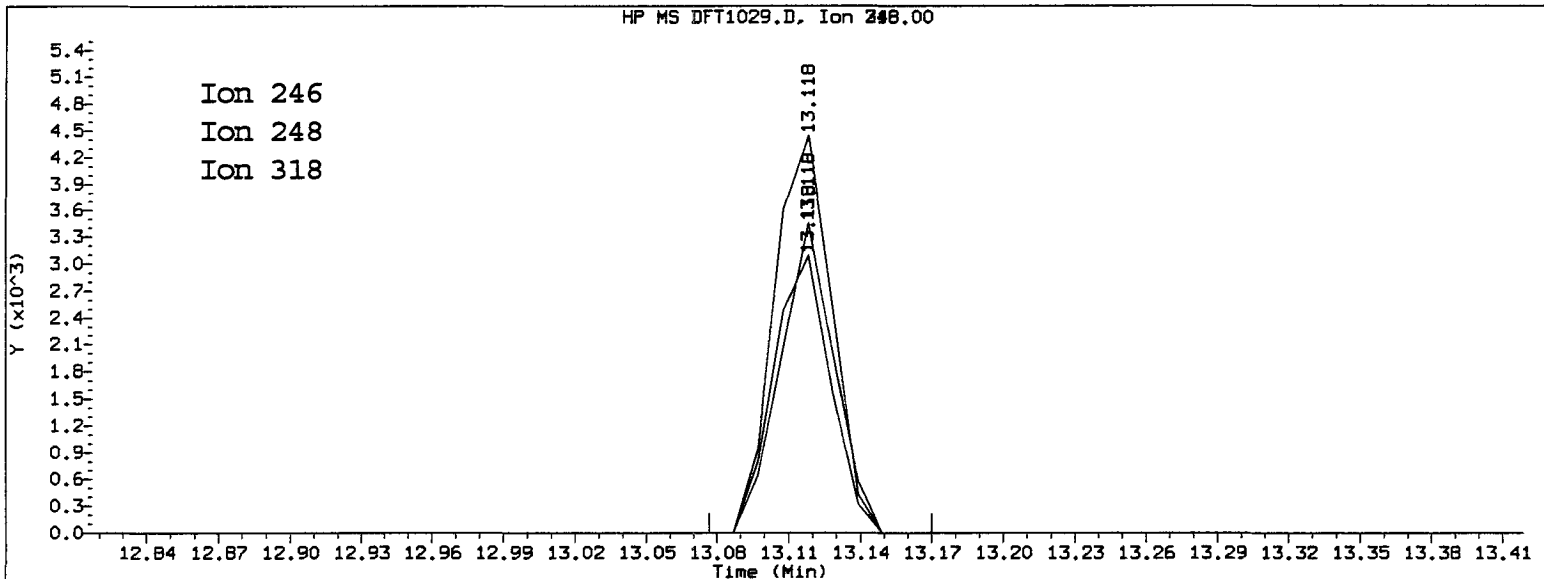
4,4'-DDT

=====
Exp. RT = 14.590
Found RT = 14.569

Mass	Area	Ratio
235	1306648	100.00
237	833552	63.79
165	727408	55.67

Report Date: 10/29/2010 12:46

Datafile Analyzed: //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D
Method Used: \\SV5\C\chem\sv5.i\102910.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 29-OCT-2010 12:13 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

=====

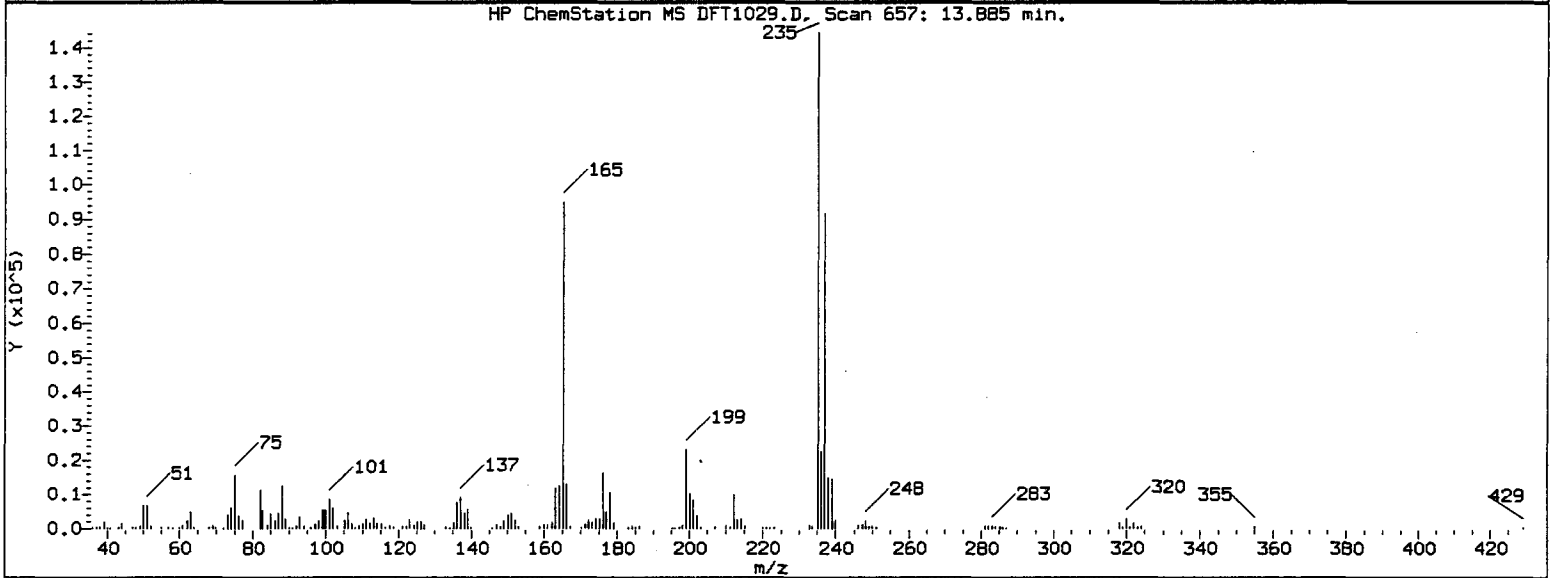
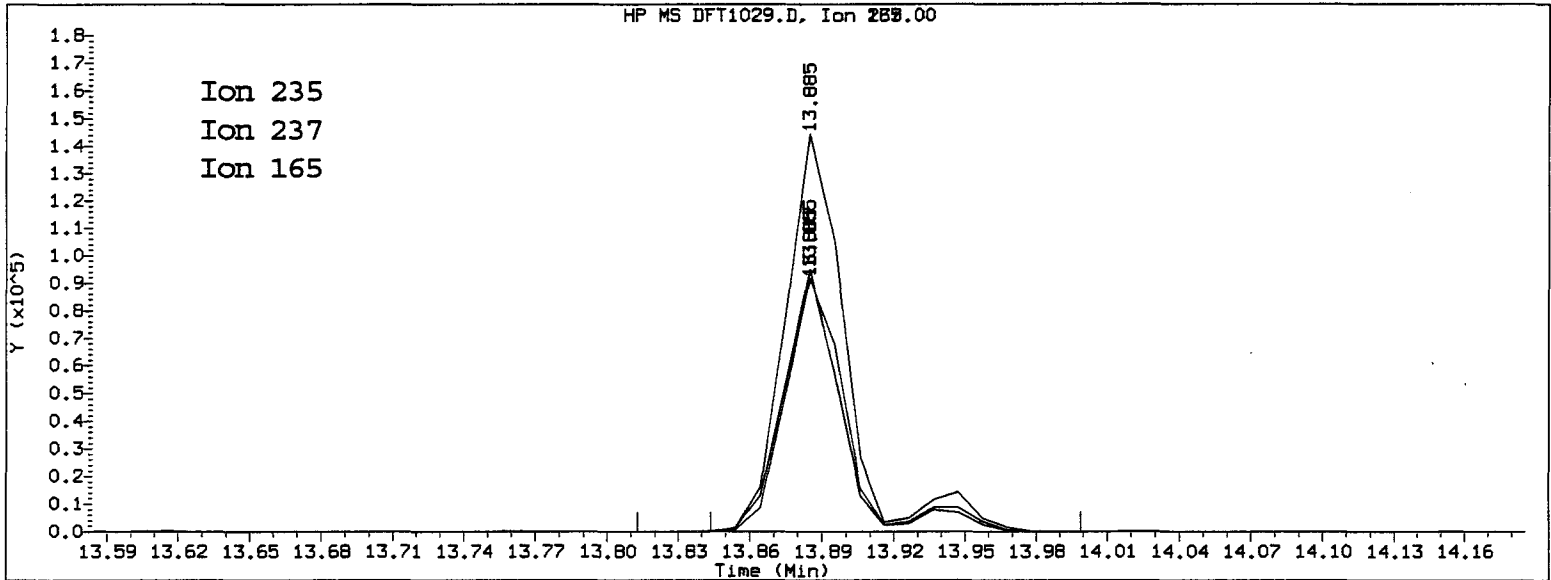
Exp. RT = 13.139

Found RT = 13.118

Mass	Area	Ratio
246	7442	100.00
248	5152	69.24
318	5461	73.39

Report Date: 10/29/2010 12:46

Datafile Analyzed: //SV5/C/chem/sv5.i/102910.B/DFT1029.D/DFT1029.D
Method Used: \\SV5\C\chem\sv5.i\102910.B\DFTTP.M\resol.m Inst: sv5
Injection Date: 29-OCT-2010 12:13 Operator: srs
Sample Info: DFTTP 50ug/ml DFTTP 50ug/ml;
Misc Info: 50ul DFTTP 10MSSV0129

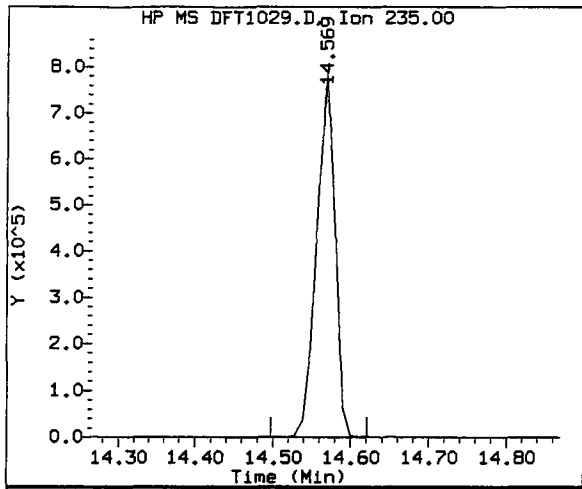


4, 4'-DDD

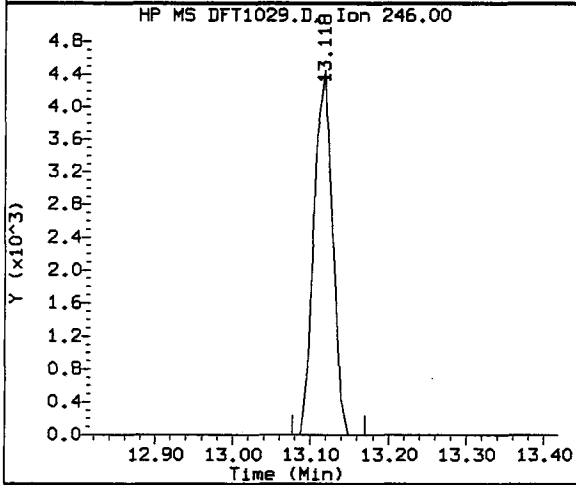
=====

Exp. RT = 13.906
Found RT = 13.885

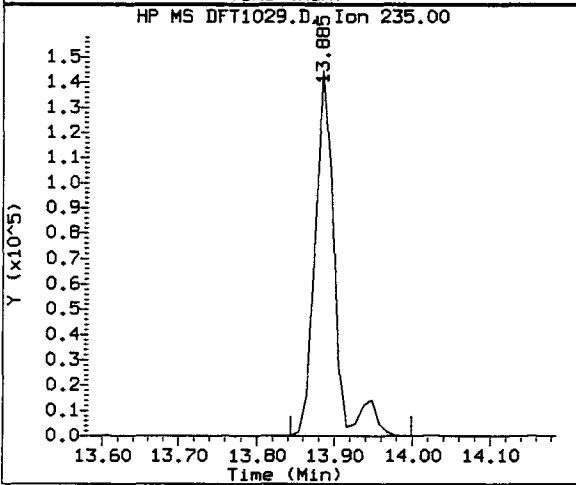
Mass	Area	Ratio
235	257040	100.00
237	163640	63.66
165	159919	62.22



Compound: 4,4'-DDT
 Quant Mass: 235
 RT: 14.569
 Area: 1306648



Compound: 4,4'-DDE
 Quant Mass: 246
 RT: 13.118
 Area: 7442



Compound: 4,4'-DDD
 Quant Mass: 235
 RT: 13.885
 Area: 257040

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4'-DDD + DDE	264482	16.8	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\102910.B\DFT1029.D
 Lab Smp Id: DFTPP 50ug/ml
 Inj Date : 29-OCT-2010 12:13
 Operator : srs
 Smp Info : DFTPP 50ug/ml;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\102910.B\DFTPP.m
 Meth Date : 29-Oct-2010 10:57 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	CONCENTRATIONS		TARGET RANGE	RATIO		
				ON-COL	FINAL				
			RESPONSE	(ug/L)	(ug/L)				

1 dftpp									
CAS #: 5074-71-5									
10.496	10.713	(0.000)	198	161152		0.00- 100.00	100.00		
10.496	10.713	(0.000)	51	95376		30.00- 80.00	59.18		
10.496	10.713	(0.000)	68	1490		0.00- 2.00	1.72		
10.496	10.713	(0.000)	69	86512		0.00- 0.00	53.68		
10.496	10.713	(0.000)	70	680		0.00- 2.00	0.79		
10.496	10.713	(0.000)	127	99912		25.00- 75.00	62.00		
10.496	10.713	(0.000)	197	0	0.0	0.00- 1.00	0.00		
10.496	10.713	(0.000)	199	10681		5.00- 9.00	6.63		
10.496	10.713	(0.000)	275	30184		10.00- 30.00	18.73		
10.496	10.713	(0.000)	365	3668		0.75- 0.00	2.28		
10.496	10.713	(0.000)	441	13047		0.01- 99.99	67.84		
10.496	10.713	(0.000)	442	88432		40.00- 110.00	54.87		
10.496	10.713	(0.000)	443	19232		15.00- 24.00	21.75		

Date : 29-OCT-2010 12:13

Client ID:

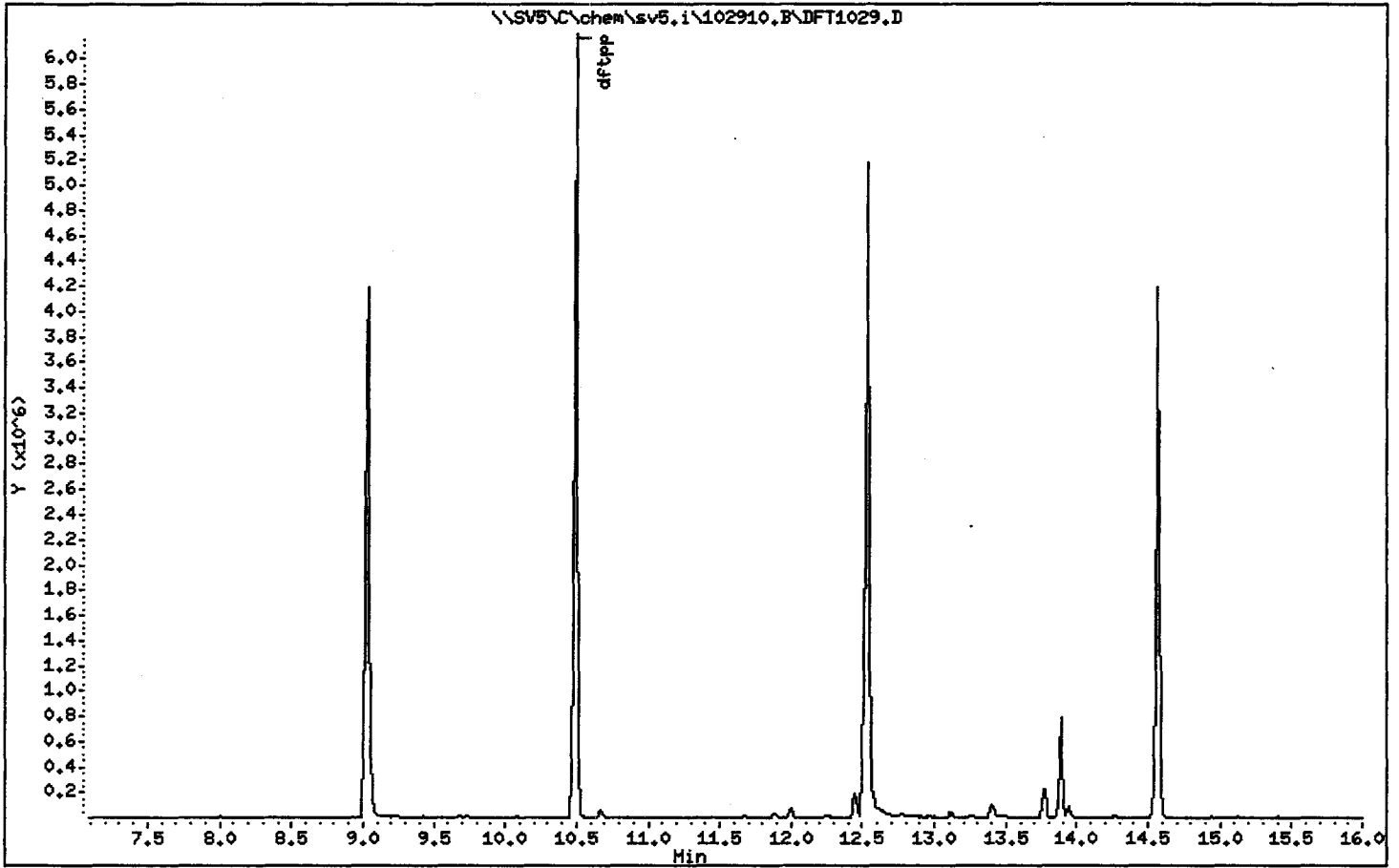
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Date : 29-OCT-2010 12:13

Client ID:

Instrument: sv5.i

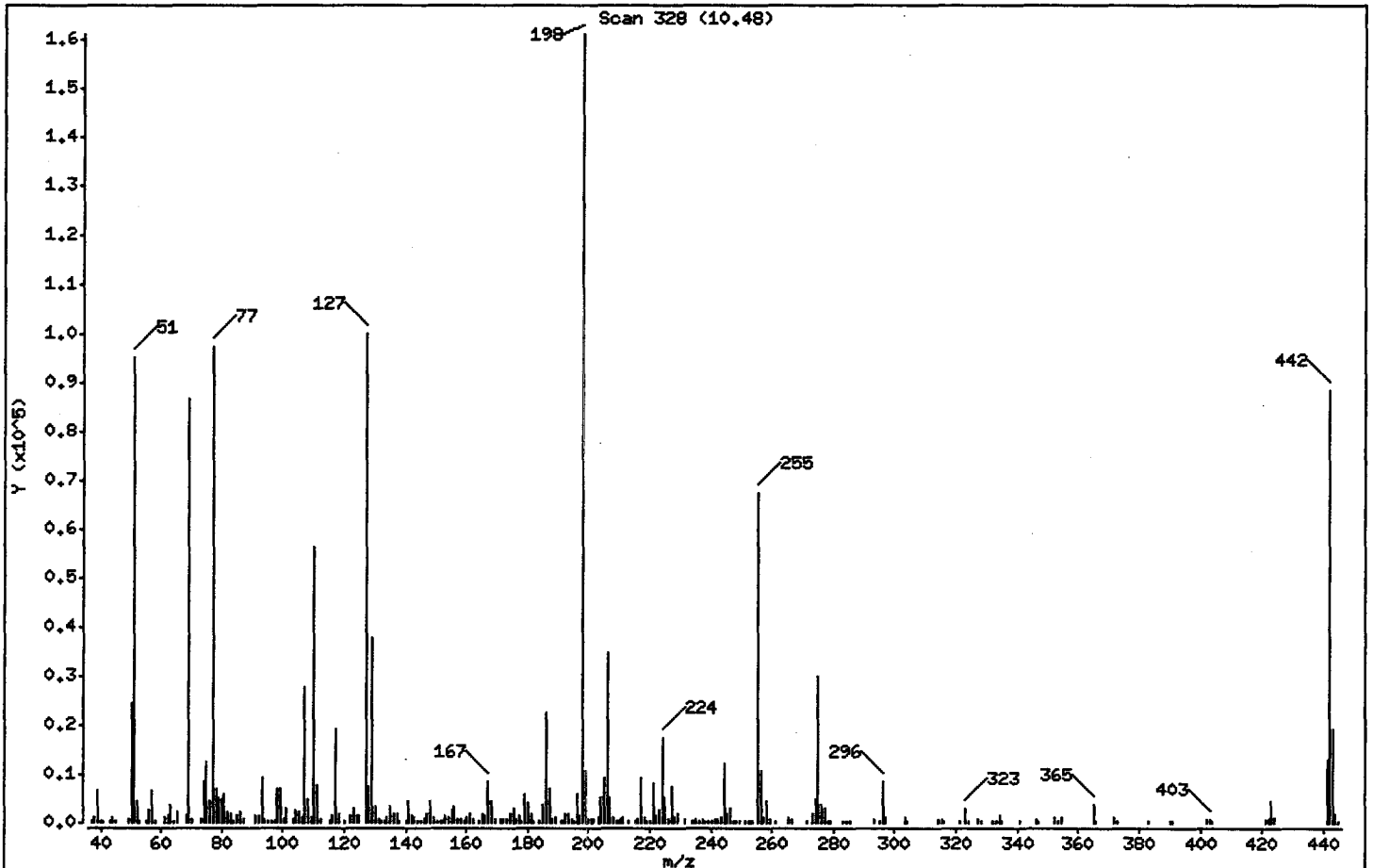
Sample Info: DFTPP 50ug/ml;

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	59.18
68	Less than 2.00% of mass 69	0.92 (1.72)
69	Mass 69 relative abundance	53.68
70	Less than 2.00% of mass 69	0.42 (0.79)
127	25.00 - 75.00% of mass 198	62.00
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	18.73
365	Greater than 0.75% of mass 198	2.28
441	Present, but less than mass 443	8.10
442	40.00 - 110.00% of mass 198	54.87
443	15.00 - 24.00% of mass 442	11.93 (21.75)

Date : 29-OCT-2010 12:13

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1029.D
 Spectrum: Scan 328 (10.48)
 Location of Maximum: 198.00
 Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 37.10	334	| 118.00	1748	| 189.00	985	| 257.00	943
| 38.00	1059	| 120.00	308	| 190.90	540	| 258.00	4320
| 39.10	6787	| 122.00	1391	| 191.40	456	| 259.10	703
| 40.00	555	| 123.00	3112	| 192.00	1717	| 260.90	221
| 41.00	512	| 124.10	1468	| 193.10	1819	| 265.00	1044
| 43.00	431	| 124.90	1323	| 194.10	556	| 266.10	587
| 44.10	1080	| 127.00	99912	| 195.00	411	| 271.00	222
| 45.10	266	| 128.00	7392	| 196.00	5828	| 273.10	1953
| 49.10	808	| 129.00	37920	| 196.60	1502	| 274.00	5001
| 50.10	24440	| 130.00	3197	| 198.00	161152	| 275.00	30184
| 51.10	95376	| 131.10	892	| 199.00	10681	| 276.10	3682
| 52.10	4550	| 131.90	298	| 200.00	841	| 277.00	2880
| 53.00	232	| 132.90	256	| 201.10	770	| 278.00	399
| 55.10	525	| 133.90	1015	| 201.60	777	| 279.00	286
| 56.00	2691	| 135.00	3251	| 203.10	1203	| 283.00	335
| 57.10	6841	| 136.10	2021	| 204.10	5025	| 284.10	351
| 58.10	498	| 137.00	1822	| 205.10	9393	| 285.20	270
| 61.00	1206	| 137.80	541	| 206.10	34904	| 293.00	605
| 62.10	1349	| 140.10	401	| 207.10	5166	| 295.10	200
| 63.00	3687	| 141.00	4306	| 208.10	1045	| 296.00	8669
| 64.00	516	| 142.00	1662	| 209.00	305	| 297.00	1040
| 65.10	2186	| 142.90	1091	| 210.10	544	| 303.10	929
| 68.00	1490	| 144.00	325	| 210.70	893	| 304.10	376
| 69.00	86512	| 145.00	234	| 211.10	1286	| 314.00	618
| 70.00	680	| 146.10	862	| 212.90	309	| 315.00	710
| 72.90	575	| 147.00	2023	| 215.00	340	| 316.00	464
| 74.00	8432	| 148.00	4586	| 216.10	599	| 321.00	297
| 75.00	12528	| 149.00	1077	| 217.00	9434	| 323.10	3035
| 76.00	4503	| 150.10	363	| 218.00	1247	| 323.90	345
| 77.10	97448	| 151.30	538	| 218.90	233	| 327.00	564
| 78.10	6908	| 152.10	324	| 220.00	307	| 328.10	367
| 79.00	5121	| 153.00	1520	| 221.10	8168	| 331.90	234
| 80.00	4805	| 153.90	1103	| 221.70	1518	| 333.20	506
| 81.00	5996	| 155.00	2628	| 223.00	2578	| 334.00	1422
| 82.00	2191	| 156.00	3239	| 224.00	17496	| 335.10	350

Date : 29-OCT-2010 12:13

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1029.D
 Spectrum: Scan 328 (10.48)
 Location of Maximum: 198.00
 Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 83.00	1794	| 157.00	892	| 225.00	5146	| 341.00	249
| 84.00	305	| 158.00	857	| 226.10	564	| 346.00	588
| 85.00	1324	| 159.00	392	| 227.00	7510	| 347.00	319
| 86.00	2073	| 160.00	1136	| 228.00	1086	| 352.00	963
| 87.00	862	| 161.00	1843	| 229.00	1676	| 353.10	533
| 91.00	1493	| 162.10	723	| 231.00	610	| 354.20	1016
| 92.10	1362	| 164.10	401	| 233.80	307	| 365.00	3668
| 93.00	9362	| 165.00	1774	| 234.10	330	| 366.00	304
| 94.00	830	| 166.10	1435	| 235.00	719	| 372.00	1260
| 95.10	353	| 167.00	8560	| 236.10	387	| 373.00	555
| 96.00	519	| 168.00	4553	| 237.10	647	| 382.90	246
| 97.10	380	| 169.10	762	| 238.00	226	| 389.90	233
| 98.00	7103	| 171.00	761	| 239.00	206	| 391.00	236
| 99.00	6917	| 172.00	891	| 240.00	333	| 401.90	832
| 100.10	649	| 173.00	895	| 241.10	637	| 403.10	919
| 101.00	3048	| 174.00	1929	| 242.00	776	| 404.10	296
| 103.10	700	| 175.10	2789	| 243.00	1088	| 421.00	595
| 104.00	2509	| 176.00	894	| 244.10	12268	| 422.00	611
| 105.00	2227	| 177.00	1387	| 245.10	1886	| 423.00	4329
| 106.10	976	| 178.00	422	| 246.00	3112	| 424.00	1026
| 107.00	27720	| 179.00	6004	| 247.10	300	| 441.10	13047
| 108.00	4902	| 180.00	4132	| 248.20	375	| 442.00	88432
| 109.10	1216	| 181.00	1967	| 249.00	554	| 443.00	19232
| 110.00	56424	| 181.90	276	| 251.00	297	| 444.00	1873
| 111.00	7750	| 183.90	489	| 251.90	280	| 445.10	292
| 112.10	926	| 185.00	3550	| 252.80	445		
| 115.00	316	| 186.00	22496	| 253.20	544		
| 116.00	1526	| 187.00	6944	| 255.00	67248		
| 117.00	19240	| 188.10	722	| 256.00	10708		

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102910.B\S102902.D
 Lab Smp Id: L84NR1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 29-OCT-2010 14:03
 Operator : srs Inst ID: sv5.i
 Smp Info : L84NR1AA G0J260480-10;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102910.B\8270f.m
 Meth Date : 01-Nov-2010 09:30 semivoa 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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.799	3.799	(1.000)	87953	40.0000	(q)	
* 2 Naphthalene-d8	136		5.219	5.219	(1.000)	359532	40.0000		
* 3 Acenaphthene-d10	164		7.312	7.312	(1.000)	208595	40.0000		
* 4 Phenanthrene-d10	188		9.219	9.219	(1.000)	332605	40.0000		
* 5 Chrysene-d12	240		13.561	13.571	(1.000)	337909	40.0000		
* 6 Perylene-d12	264		15.934	15.945	(1.000)	366796	40.0000		
\$ 7 2-Fluorophenol	112		2.587	2.587	(0.681)	175589	56.6385	56.64	
\$ 8 Phenol-d5	99		3.467	3.467	(0.913)	246872	63.3260	63.33	
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.055)	33180	15.3177	15.32 (qR)	
\$ 11 Nitrobenzene-d5	82		4.431	4.431	(0.849)	95539	31.3738	31.37	
\$ 12 2-Fluorobiphenyl	172		6.525	6.525	(0.892)	226245	33.6700	33.67	
\$ 13 2,4,6-Tribromophenol	330		8.307	8.307	(1.136)	78620	86.7366	86.74	
\$ 14 Terphenyl-d14	244		11.810	11.810	(0.871)	264103	39.6795	39.68	
108 Hexachlorobenzene	284		8.794	8.804	(0.954)	8337	4.59784	4.598	

QC Flag Legend

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

Handwritten: 11-9-10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84NR1AA G0J260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102910.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	56.64	56.64	41-105
\$ 8 Phenol-d5	100.0	63.33	63.33	43-122
\$ 10 1,2-Dichlorobenzen	50.00	15.32	30.64*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.37	62.75	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.67	67.34	58-105
\$ 13 2,4,6-Tribromophen	100.0	86.74	86.74	61-118
\$ 14 Terphenyl-d14	50.00	39.68	79.36	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102910.B\S102902.D
 Lab Smp Id: L84NR1AA G0J260480- Client Smp ID: 0299370
 Inj Date : 29-OCT-2010 14:03
 Operator : srs Inst ID: sv5.i
 Smp Info : L84NR1AA G0J260480-10;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102910.B\8270F.m
 Meth Date : 01-Nov-2010 09:25 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		3.799	3.799	(1.000)	87953	40.0000	
* 2 Naphthalene-d8	136		5.219	5.219	(1.000)	359532	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.312	(1.000)	208595	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.219	(1.000)	332605	40.0000	
* 5 Chrysene-d12	240		13.561	13.561	(1.000)	337909	40.0000	
* 6 Perylene-d12	264		15.934	15.934	(1.000)	366796	40.0000	
\$ 7 2-Fluorophenol	112		2.587	2.587	(0.681)	175589	56.6385	56.64
\$ 8 Phenol-d5	99		3.467	3.468	(0.913)	246872	63.3260	63.33
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.055)	33180	15.3177	15.32 (qR)
\$ 11 Nitrobenzene-d5	82		4.431	4.431	(0.849)	95539	31.3738	31.37
\$ 12 2-Fluorobiphenyl	172		6.525	6.525	(0.892)	226245	33.6700	33.67
\$ 13 2,4,6-Tribromophenol	330		8.307	8.307	(1.136)	78620	86.7366	86.74
\$ 14 Terphenyl-d14	244		11.810	11.810	(0.871)	264103	39.6795	39.68
108 Hexachlorobenzene	284		8.794	8.805	(0.954)	8337	4.59784	4.598

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 29-OCT-2010
Lab File ID: S102902.D	Calibration Time: 12:58
Lab Smp Id: L84NR1AA G0J260480-	Client Smp ID: 0299370
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: srs	
Method File: \\SV5\C\chem\sv5.i\102910.B\8270F.m	
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M	

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	87953	-28.27
2 Naphthalene-d8	530514	265257	1061028	359532	-32.23
3 Acenaphthene-d10	282538	141269	565076	208595	-26.17
4 Phenanthrene-d10	462722	231361	925444	332605	-28.12
5 Chrysene-d12	435850	217925	871700	337909	-22.47
6 Perylene-d12	422284	211142	844568	366796	-13.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.80	3.30	4.30	3.80	0.00
2 Naphthalene-d8	5.22	4.72	5.72	5.22	0.00
3 Acenaphthene-d10	7.31	6.81	7.81	7.31	0.00
4 Phenanthrene-d10	9.22	8.72	9.72	9.22	0.00
5 Chrysene-d12	13.56	13.06	14.06	13.56	0.00
6 Perylene-d12	15.93	15.43	16.43	15.93	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

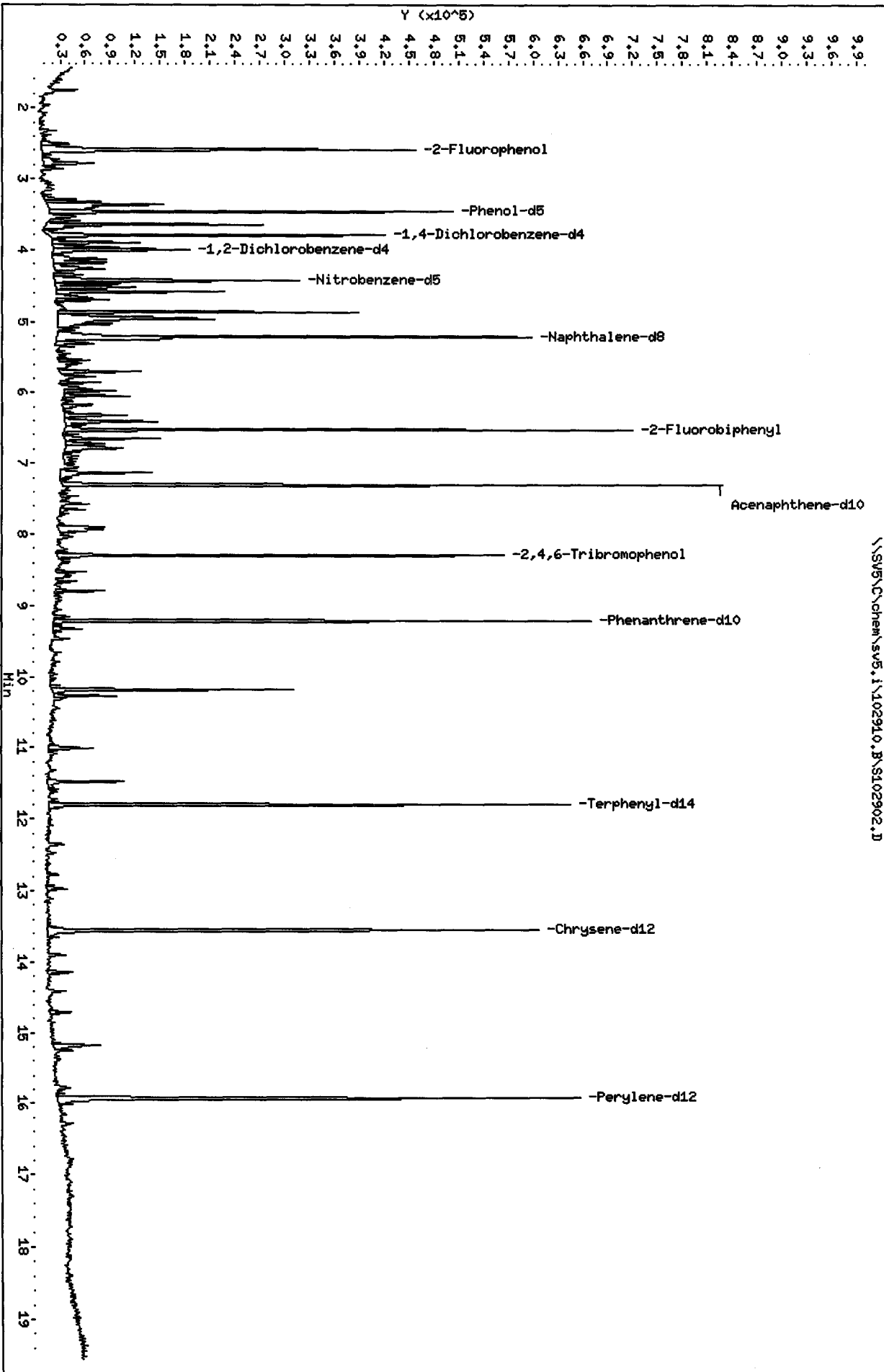
RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84NR1AA G0J260480- Client Smp ID: 0299370
 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\102910.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	56.64	56.64	41-105
\$ 8 Phenol-d5	100.0	63.33	63.33	43-122
\$ 10 1,2-Dichlorobenzen	100.0	15.32	15.32*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.37	62.75	46-118
\$ 12 2-Fluorobiphenyl	50.00	33.67	67.34	58-105
\$ 13 2,4,6-Tribromophen	100.0	86.74	86.74	61-118
\$ 14 Terphenyl-d14	50.00	39.68	79.36	69-110

Data File: \\SV5\C\chem\sv5.i\102910.B\S102902.D
 Date : 29-OCT-2010 14:03
 Client ID: 0299370
 Sample Info: L64NR1A9 G0J260480-10:0:;;1000;1000;5
 Volume Injected (uL): 1.0
 Column phase:

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



\\SV5\C\chem\sv5.i\102910.B\S102902.D

Date : 29-OCT-2010 14:03

Client ID: 0299370

Instrument: sv5.i

Sample Info: L84NR1AA G0J260480-10;0;;;1000;1000;5

Volume Injected (uL): 1.0

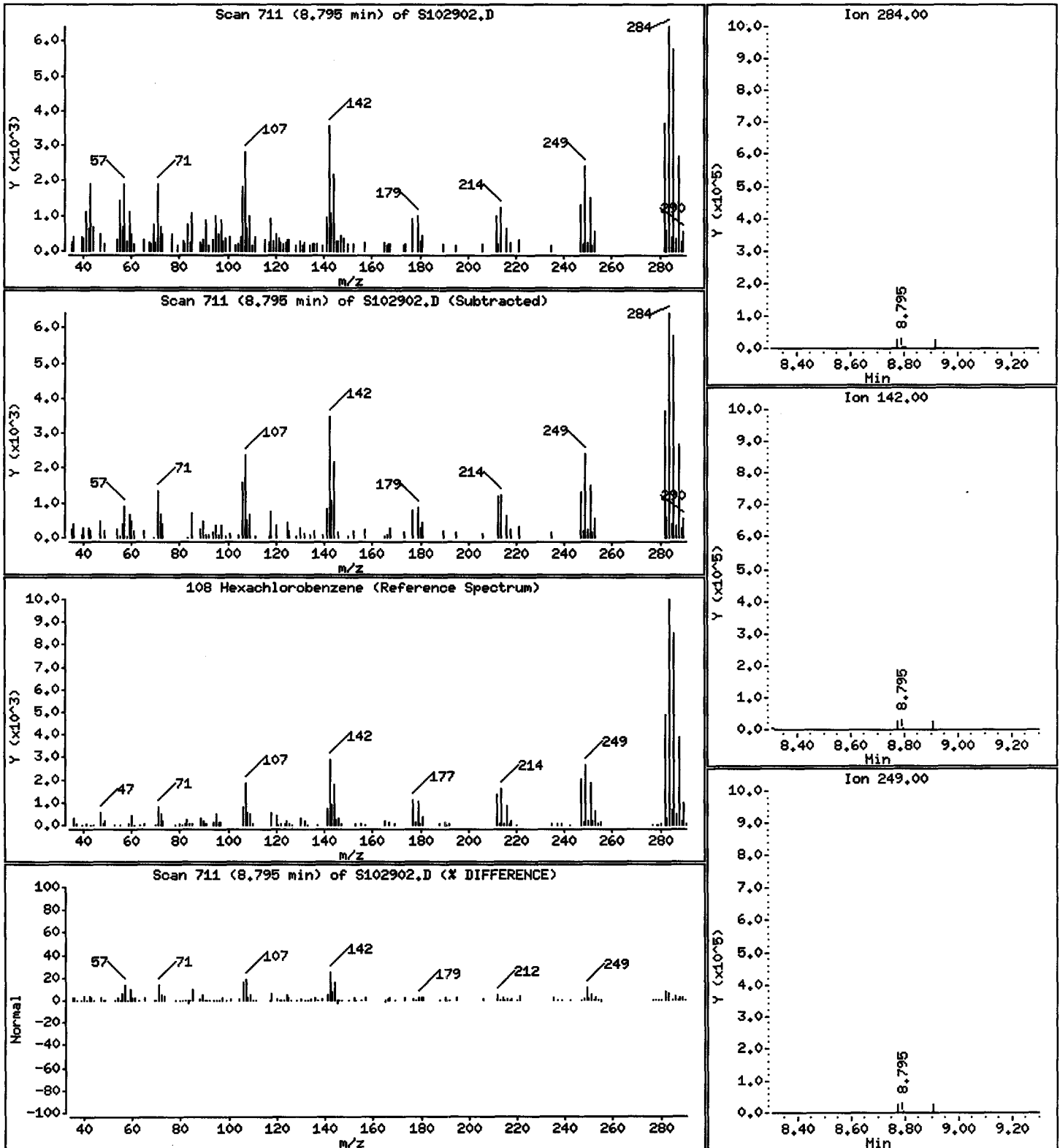
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 4.598 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102910.B\S102903.D
 Lab Smp Id: L84Q51AA G0J260480- Client Smp ID: 0299370
 Inj Date : 29-OCT-2010 14:28
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q51AA G0J260480-19;0;;;1000;;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\Datafiles10\10OCT10\102910.B\8270f.m
 Meth Date : 01-Nov-2010 09:30 semivoa Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 10
 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		3.799	3.799	(1.000)	92648	40.0000	(q)
* 2 Naphthalene-d8	136		5.219	5.219	(1.000)	404785	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.312	(1.000)	224294	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.219	(1.000)	359152	40.0000	
* 5 Chrysene-d12	240		13.561	13.571	(1.000)	364583	40.0000	
* 6 Perylene-d12	264		15.934	15.945	(1.000)	391953	40.0000	
\$ 7 2-Fluorophenol	112		2.587	2.587	(0.681)	200362	61.3542	61.35
\$ 8 Phenol-d5	99		3.467	3.467	(0.913)	283999	69.1579	69.16
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.055)	60608	26.5621	26.56 (qR)
\$ 11 Nitrobenzene-d5	82		4.431	4.431	(0.849)	111981	32.6620	32.66
\$ 12 2-Fluorobiphenyl	172		6.525	6.525	(0.892)	259973	35.9814	35.98
\$ 13 2,4,6-Tribromophenol	330		8.307	8.307	(1.136)	86576	88.8287	88.83
\$ 14 Terphenyl-d14	244		11.810	11.810	(0.871)	284541	39.6224	39.62
108 Hexachlorobenzene	284		8.794	8.804	(0.954)	17502	8.93885	8.939

Handwritten signature and date:
 11-9-10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: L84Q51AA G0J260480- Client Smp ID: 0299370
 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\Datafiles10\10OCT10\102910.B\8270f.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	61.35	61.35	41-105
\$ 8 Phenol-d5	100.0	69.16	69.16	43-122
\$ 10 1,2-Dichlorobenzen	50.00	26.56	53.12*	60-120
\$ 11 Nitrobenzene-d5	50.00	32.66	65.32	46-118
\$ 12 2-Fluorobiphenyl	50.00	35.98	71.96	58-105
\$ 13 2,4,6-Tribromophen	100.0	88.83	88.83	61-118
\$ 14 Terphenyl-d14	50.00	39.62	79.24	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\102910.B\S102903.D
 Lab Smp Id: L84Q51AA G0J260480- Client Smp ID: 0299370
 Inj Date : 29-OCT-2010 14:28
 Operator : srs Inst ID: sv5.i
 Smp Info : L84Q51AA G0J260480-19;0;;;1000;;1000;5
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\102910.B\8270F.m
 Meth Date : 01-Nov-2010 09:25 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 10
 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		3.799	3.799	(1.000)	92648	40.0000	
* 2 Naphthalene-d8	136		5.219	5.219	(1.000)	404785	40.0000	
* 3 Acenaphthene-d10	164		7.312	7.312	(1.000)	224294	40.0000	
* 4 Phenanthrene-d10	188		9.219	9.219	(1.000)	359152	40.0000	
* 5 Chrysene-d12	240		13.561	13.561	(1.000)	364583	40.0000	
* 6 Perylene-d12	264		15.934	15.934	(1.000)	391953	40.0000	
\$ 7 2-Fluorophenol	112		2.587	2.587	(0.681)	200362	61.3542	61.35
\$ 8 Phenol-d5	99		3.467	3.468	(0.913)	283999	69.1579	69.16
\$ 10 1,2-Dichlorobenzene-d4	152		4.006	4.006	(1.055)	60608	26.5621	26.56 (qR)
\$ 11 Nitrobenzene-d5	82		4.431	4.431	(0.849)	111981	32.6620	32.66
\$ 12 2-Fluorobiphenyl	172		6.525	6.525	(0.892)	259973	35.9814	35.98
\$ 13 2,4,6-Tribromophenol	330		8.307	8.307	(1.136)	86576	88.8287	88.83
\$ 14 Terphenyl-d14	244		11.810	11.810	(0.871)	284541	39.6224	39.62
108 Hexachlorobenzene	284		8.794	8.805	(0.954)	17502	8.93885	8.939

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 29-OCT-2010
 Lab File ID: S102903.D Calibration Time: 12:58
 Lab Smp Id: L84Q51AA G0J260480- Client Smp ID: 0299370
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: AIR
 Operator: srs
 Method File: \\SV5\C\chem\sv5.i\102910.B\8270F.m
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	92648	-24.45
2 Naphthalene-d8	530514	265257	1061028	404785	-23.70
3 Acenaphthene-d10	282538	141269	565076	224294	-20.61
4 Phenanthrene-d10	462722	231361	925444	359152	-22.38
5 Chrysene-d12	435850	217925	871700	364583	-16.35
6 Perylene-d12	422284	211142	844568	391953	-7.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.80	3.30	4.30	3.80	0.00
2 Naphthalene-d8	5.22	4.72	5.72	5.22	0.00
3 Acenaphthene-d10	7.31	6.81	7.81	7.31	0.00
4 Phenanthrene-d10	9.22	8.72	9.72	9.22	0.00
5 Chrysene-d12	13.56	13.06	14.06	13.56	0.00
6 Perylene-d12	15.93	15.43	16.43	15.93	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

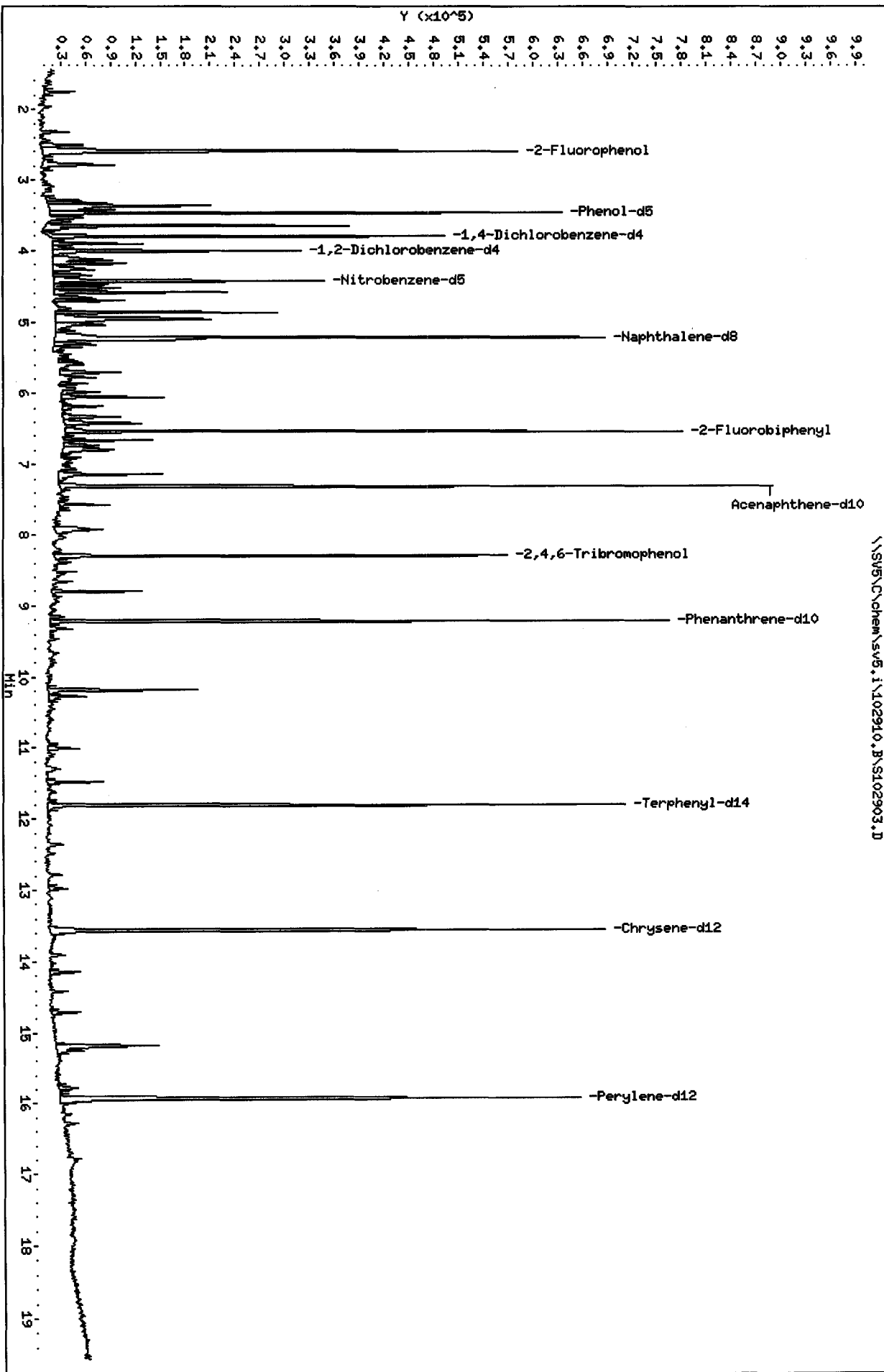
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L84Q51AA G0J260480- Client Smp ID: 0299370
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\102910.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0299370;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	61.35	61.35	41-105
\$ 8 Phenol-d5	100.0	69.16	69.16	43-122
\$ 10 1,2-Dichlorobenzen	100.0	26.56	26.56*	60-120
\$ 11 Nitrobenzene-d5	50.00	32.66	65.32	46-118
\$ 12 2-Fluorobiphenyl	50.00	35.98	71.96	58-105
\$ 13 2,4,6-Tribromophen	100.0	88.83	88.83	61-118
\$ 14 Terphenyl-d14	50.00	39.62	79.24	69-110

Data File: \\SV5\C\chem\sv5.i\102910.B\SI02903.D
 Date : 29-OCT-2010 14:28
 Client ID: 0293370
 Sample Info: L84051AA G0J260480-1910;;;11000;11000;5
 Volume Injected (uL): 1.0
 Column phase:

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



Date : 29-OCT-2010 14:28

Client ID: 0299370

Instrument: sv5.i

Sample Info: LB4Q51AA G0J260480-19;0;;;1000;;1000;5

Volume Injected (uL): 1.0

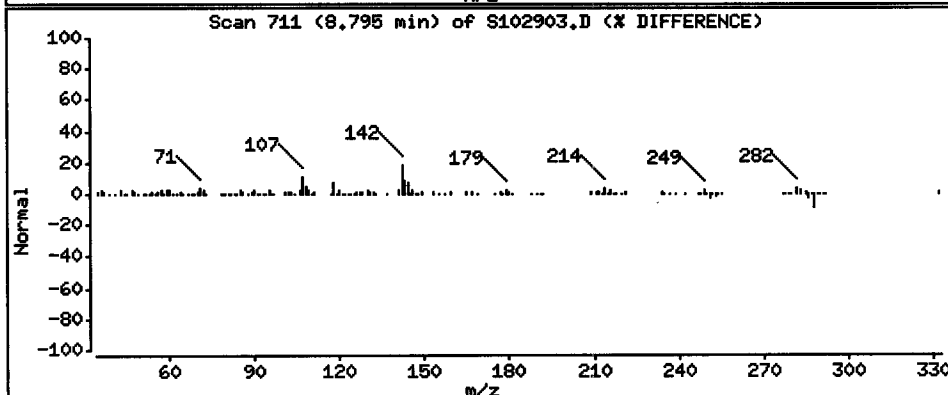
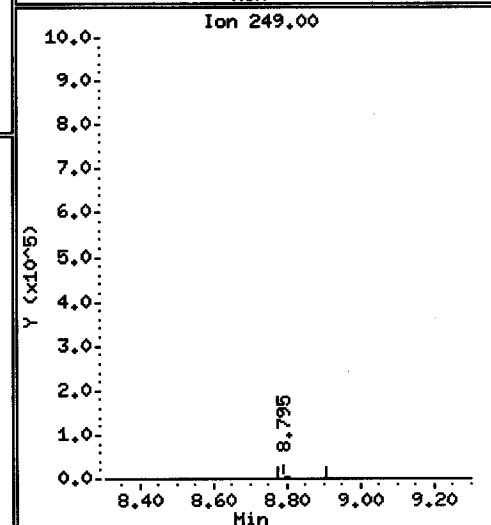
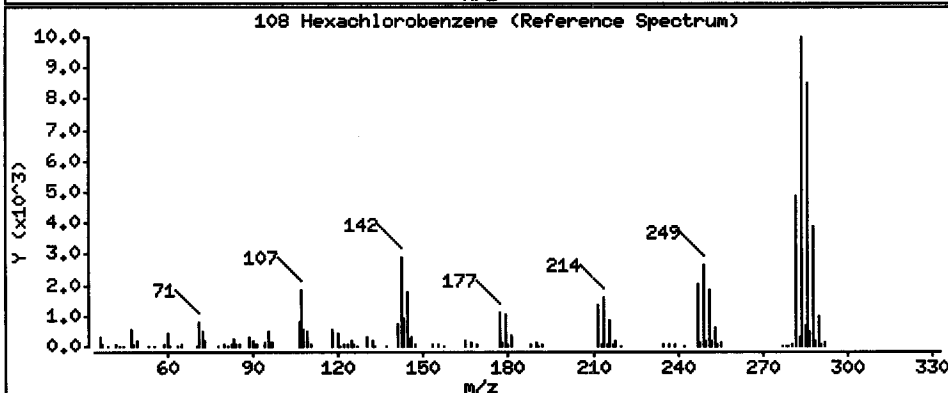
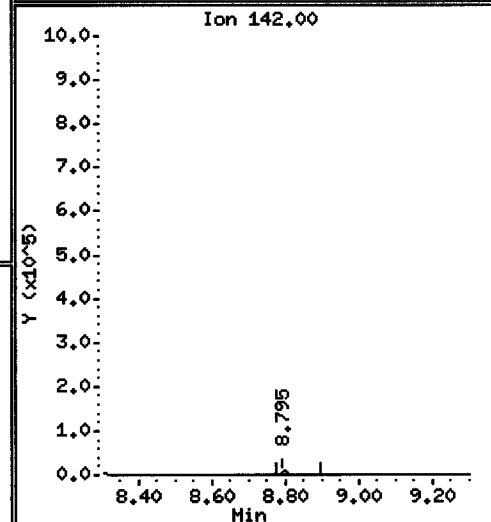
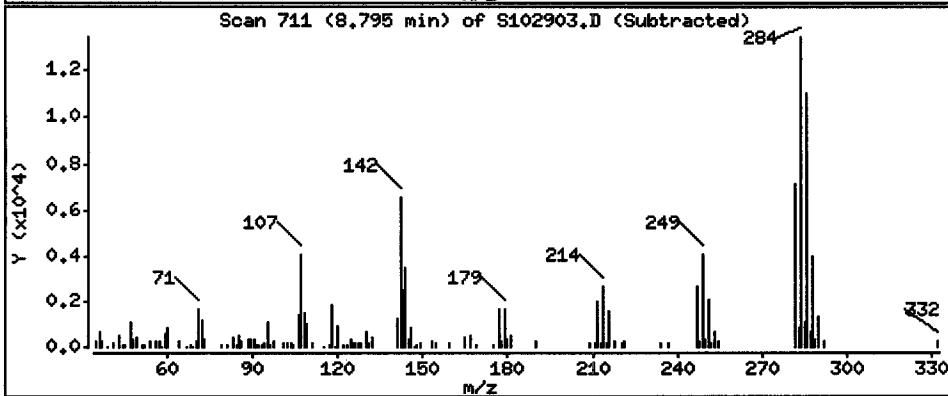
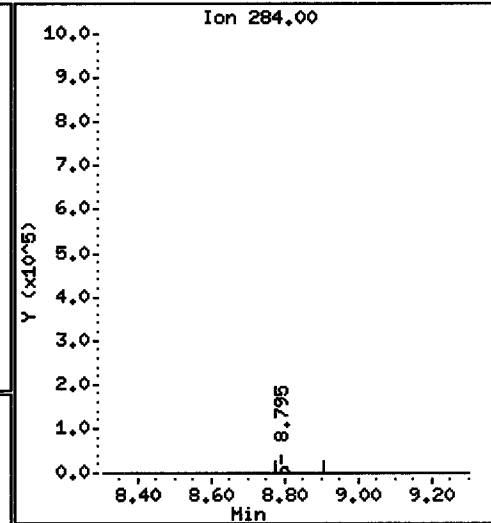
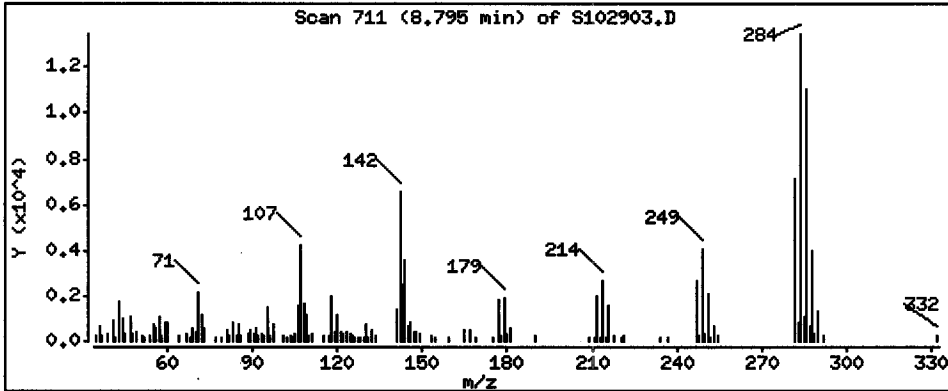
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 8.939 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"/>
<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)
 JZ = EPA TO-13A (WS-MS-0005)
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)
 QI = EPA 8270C-SIM (WS-MS-0008)
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i
 Batch ID : 100210.B
 ICAL Date: See Calib Report
 See raw data for standard IDs

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

SNS HSL
 10/23/10

Report Date : 03-Oct-2010 11:10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

Compound	Concentration 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		
15 N-Nitrosodimethylamine	0.92899 0.93833	0.88268 1.37423	0.91048 1.59449	0.91970 1.56610	0.93146 1.52299	0.93916 1.53256	AVRG	0.92154			2.16207	
16 Pyridine	1.67117 1.52623	1.37423 2.15935	1.59449 2.19988	1.56610 2.26058	1.52299 2.29749	1.53256 2.33400	AVRG	1.54111			5.85560	
23 Aniline	2.20796 2.33783	2.15935 1.96212	2.19988 2.02834	2.26058 2.03430	2.29749 2.06683	2.33400 2.06089	AVRG	2.25673			3.09753	
24 Phenol	2.04111 2.06740	1.96212 2.06740	2.02834 2.06740	2.03430 2.06683	2.06683 2.06089	2.06089 2.06089	AVRG	2.03729			1.80250	

Manual calculation for 2.4.5-Tribromophenol @ Level 3.
 $\frac{55529}{32868} \times \frac{40}{20} = 0.33796$ by 10/4/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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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 mL	m2	RSR or R ²
160.0000 Level 7											
26 Bis (2-chloroethyl) ether	1.47335	1.38252	1.39491	1.43824	1.42549	1.44300	AVRG		1.42859		2.17028
1.44264											
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074	AVRG		1.56381		1.32805
1.57039											
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299	AVRG		1.70337		1.29370
1.72457											
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288	AVRG		1.78118		1.35229
1.81444											
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952	AVRG		1.05101		3.69696
1.09506											
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415	AVRG		1.63746		1.45884
1.64691											
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45565	1.46154	AVRG		1.43012		2.50558
1.47889											

TestAmerica West Sacramento

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	b	ml	Coefficient	ml	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
33 2,2'-oxybis(1-Chloropropane)	2.29602	2.22080	2.28329	2.27928	2.27018	2.27830							AVRG	2.27365				1.08468
34 4-Methylphenol	1.48606	1.48913	1.46270	1.52239	1.52653	1.55886							AVRG	1.51904				2.88378
36 Hexachloroethane	0.60925	0.60836	0.60573	0.61394	0.60427	0.59381							AVRG	0.60636				1.04319
37 N-Nitrosodipropylamine	0.94498	0.97005	1.01302	1.02370	1.04700	1.03627							AVRG	1.01180				3.92615
42 Nitrobenzene	0.32855	0.32602	0.32543	0.33083	0.33379	0.33450							AVRG	0.33116				1.48904
44 Isophorone	0.63431	0.62291	0.61160	0.63344	0.63648	0.66468							AVRG	0.63679				2.81109
45 2-Nitrophenol	0.18608	0.18833	0.18840	0.20021	0.20022	0.20702							AVRG	0.19648				4.42274

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Compound	Level							Curve	Coefficient#		RSD or R^2
	5.0000	10.0000	20.0000	50.0000	80.0000	120.0000	b		m1	m2	
----- 160.0000 Level 7											
46 2,4-Dimethylphenol	0.34459	0.34167	0.34307	0.34912	0.34788	0.35962	AVRG	0.34911			2.02786
----- 0.35785											
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859	AVRG	0.38908			3.10601
----- 0.38545											
49 2,4-Dichlorophenol	0.25434	0.26318	0.27019	0.27037	0.27274	0.28180	AVRG	0.27010			3.39345
----- 0.27809											
50 Benzoic Acid	0.16747	0.16266	0.17423	0.19357	0.21024	0.22272	AVRG	0.19324			13.25202
----- 0.22180											
51 1,2,4-Trichlorobenzene	0.29430	0.28827	0.28475	0.29747	0.29189	0.29959	AVRG	0.29246			1.75989
----- 0.29091											
52 Naphthalene	1.09939	1.12462	1.07435	1.09325	1.09870	1.13821	AVRG	1.10443			1.89960
----- 1.10247											
54 4-Chloroaniline	0.40751	0.42534	0.43264	0.43910	0.43781	0.44905	AVRG	0.43288			3.06843
----- 0.43867											

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

Compound	10.0000							20.0000							50.0000							80.0000							120.0000							Curve	b	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										
57 Hexachlorobutadiene	0.14295	0.13912	0.14428	0.14415	0.14365	0.14379		0.14295	0.13912	0.14428	0.14415	0.14365	0.14379		0.14295	0.13912	0.14428	0.14415	0.14365	0.14379		0.14295	0.13912	0.14428	0.14415	0.14365	0.14379		0.14313		1.58904									
60 4-Chloro-3-Methylphenol	0.29329	0.28866	0.29079	0.30972	0.30295	0.31766		0.29329	0.28866	0.29079	0.30972	0.30295	0.31766		0.29329	0.28866	0.29079	0.30972	0.30295	0.31766		0.29329	0.28866	0.29079	0.30972	0.30295	0.31766		0.30164		3.64422									
63 2-Methylnaphthalene	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172		0.68483	0.68064	0.68080	0.70067	0.70560	0.71172		0.68483	0.68064	0.68080	0.70067	0.70560	0.71172		0.68483	0.68064	0.68080	0.70067	0.70560	0.71172		0.69378		1.79740									
66 Hexachlorocyclopentadiene	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262		0.26878	0.27757	0.28896	0.29704	0.30236	0.32262		0.26878	0.27757	0.28896	0.29704	0.30236	0.32262		0.26878	0.27757	0.28896	0.29704	0.30236	0.32262		0.29846		7.64489									
69 2,4,6-Trichlorophenol	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225		0.31186	0.29820	0.30223	0.31996	0.32305	0.34225		0.31186	0.29820	0.30223	0.31996	0.32305	0.34225		0.31186	0.29820	0.30223	0.31996	0.32305	0.34225		0.31913		5.15654									
70 2,4,5-Trichlorophenol	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480		0.30823	0.32892	0.33796	0.36298	0.35236	0.35480		0.30823	0.32892	0.33796	0.36298	0.35236	0.35480		0.30823	0.32892	0.33796	0.36298	0.35236	0.35480		0.34380		5.80662									
71 2-Chloronaphthalene	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447		1.13629	1.09411	1.10012	1.14181	1.11220	1.14447		1.13629	1.09411	1.10012	1.14181	1.11220	1.14447		1.13629	1.09411	1.10012	1.14181	1.11220	1.14447		1.12571		2.05054									

TestAmerica West Sacramento
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Compound	Coefficients							b	Curve	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1	RSR or R ²
	ml	m2	120.0000	80.0000	50.0000	20.0000	10.0000									
73 2-Nitroaniline	0.34119		0.35794	AVRG	0.34821	0.35205	0.33397	0.31759	0.31576	0.36278						5.57334
76 Dimethylphthalate	1.29606		1.32891	AVRG	1.31165	1.34568	1.29803	1.25191	1.23388	1.30237						3.09317
77 Acenaphthylene	1.96037		1.99786	AVRG	1.98204	2.01646	1.91818	1.91304	1.86531	2.02968						3.15026
79 2,6-Dinitrotoluene	0.30197		0.32140	AVRG	0.31294	0.31220	0.29890	0.27378	0.28347	0.31106						5.78579
80 3-Nitroaniline	0.37691		0.39559	AVRG	0.38674	0.40036	0.35978	0.34622	0.35362	0.39603						6.06861
81 Acenaphthene	1.24787		1.24781	AVRG	1.21141	1.27046	1.26733	1.22468	1.25874	1.25463						1.76776
82 2,4-Dinitrophenol	5.32413	-0.71963	199007	QUAD	110384	58864	23799	7537	4083	265655						0.99812

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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onishim

Compound	Coefficients							b	Curve	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1	Level 7	m2	RSD or R^2
	5.0000	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000											
83 Dibenzofuran	1.57786	1.62124	1.65200	1.69530	1.65117	1.68450		AVRG										2.77923
84 4-Nitrophenol	0.12712	0.14148	0.15316	0.16076	0.17130	0.16653		AVRG										10.90920
86 2,4-Dinitrotoluene	0.34360	0.35989	0.38479	0.42154	0.41035	0.42305		AVRG										8.61592
91 Fluorene	1.34567	1.33840	1.34292	1.39902	1.38899	1.37835		AVRG										2.08557
92 Diethylphthalate	1.22340	1.29889	1.31549	1.37912	1.31873	1.37345		AVRG										4.31889
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695		AVRG										2.42913
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102		AVRG										7.42395

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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 Integrator : Falcon
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients ml	n2	MSD or R^2
97 4,6-Dinitro-2-methylphenol	5780 324244	11282	32982	76137	134784	236477	LNLR	0.10840	0.15581		0.99840
98 N-Nitrosodiphenylamine	0.57756 0.61968	0.59736	0.60533	0.60433	0.62172	0.61801	AVRG		0.60628		2.57715
100 Azobenzene	0.77527 0.77331	0.76965	0.77321	0.79522	0.80064	0.81892	AVRG		0.78660		2.37146
101 4-Bromophenyl-phenylether	0.18964 0.19815	0.18507	0.19281	0.19931	0.19607	0.20581	AVRG		0.19527		3.48752
108 Hexachlorobenzene	0.22958 0.21854	0.22054	0.20740	0.21605	0.21731	0.21704	AVRG		0.21807		3.00928
110 Pentachlorophenol	5849 293184	10551	30451	67882	126397	215360	LNLR	0.09816	0.14122		0.99845
114 Phenanthrene	1.30347 1.26611	1.26007	1.25408	1.24163	1.24375	1.25610	AVRG		1.26074		1.64308

TestAmerica West Sacramento
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 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	Coefficients		m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	b	m1					
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214							AVRG	1.25955			2.12888
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192							AVRG	1.15061			1.87826
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847							AVRG	1.38442			4.97257
126 Fluoranthene	1.03840	1.07611	1.17216	1.10520	1.15861	1.18294							AVRG	1.12969			5.01774
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375							AVRG	0.81067			5.60614
128 Pyrene	1.25791	1.23783	1.17078	1.28664	1.25586	1.28463							AVRG	1.25025			3.12172
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414							AVRG	0.71564			8.88815

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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	
136 Butylbenzylphthalate	0.64984 0.64920	0.60187	0.59142	0.62586	0.61590	0.65233	AVRG	0.62663			3.95034
138 Benzo(a)Anthracene	1.10169 1.10920	0.99731	1.03245	1.04489	1.06449	1.10831	AVRG	1.06548			4.05847
139 Chrysene	1.05284 1.12246	1.10175	1.06320	1.09705	1.06985	1.12241	AVRG	1.08994			2.59426
140 3,3'-Dichlorobenzidine	0.39148 0.42415	0.37695	0.39090	0.39906	0.40353	0.42717	AVRG	0.40189			4.53885
141 bis(2-ethylhexyl)Phthalate	0.91826 0.88354	0.80897	0.84032	0.85193	0.84371	0.89539	AVRG	0.86316			4.34816
142 Di-n-octylphthalate	1.34838 1.50770	1.23185	1.35627	1.34433	1.39356	1.47616	AVRG	1.37975			6.65055
144 Benzo(b)fluoranthene	0.81012 1.02572	0.81077	0.82747	0.99930	0.95373	0.91132	AVRG	0.90549			10.05836

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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		
145 Benzo(k)fluoranthene	1.22939	1.16528	1.20022	1.09895	1.14223	1.19597	AVRG	1.16236	4.27893
147 Benzo(e)pyrene	0.90394	0.92734	0.90757	0.95977	0.96997	0.96929	AVRG	0.94425	3.22007
148 Benzo(a)pyrene	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	0.73267	0.73671	0.84698	0.84057	0.93730	AVRG	0.83029	12.15083
152 Dibenzo(a,h)anthracene	0.97995	0.84384	0.87256	0.92240	0.95990	1.00944	AVRG	0.92758	7.07091
153 Benzo(g,h,i)perylene	1.00392	0.96025	0.97380	0.99974	1.01731	1.05397	AVRG	1.00427	3.45188
M 162 benzo b,k Fluoranthene Totals	1.04026	2.03951	1.97605	2.02770	2.09825	2.10729	AVRG	2.06785	2.64859
	2.13019								

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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
160.0000 Level 7											
\$ 7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43535	1.42232	AVRG	1.40992		3.61494	
	1.43635										
\$ 8 phenol-d5	1.72227	1.67335	1.74151	1.79006	1.80863	1.83864	AVRG	1.77296		3.52001	
	1.83627										
\$ 9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967	AVRG	1.55698		2.52388	
	1.57804										
\$ 10 1,2-Dichlorobenzene-d4	0.95776	0.98111	0.99827	0.98914	0.99518	0.98547	AVRG	0.98513		1.35559	
	0.98896										
\$ 11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34105	0.33606	0.35127	AVRG	0.33879		2.16217	
	0.33970										
\$ 12 2-Fluorobiphenyl	1.28499	1.26007	1.27668	1.34206	1.25854	1.29723	AVRG	1.28852		2.22622	
	1.30010										
\$ 13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17825	0.18501	AVRG	0.17381		7.05197	
	0.18390										

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients 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

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 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Last Edit : 03-Oct-2010 11:09 onishim

Curve	Formula	Units
Averaged	Amt = Resp/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
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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|	7.645|	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|	|_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\100210.B\QC001	|
4	|1_8270STD	||\SV5\C\chem\sv5.i\100110.B\HSL1001	|
5	|1_8270STD	||\SV5\C\chem\sv5.i\093010.B\HSL0930	|
6	|1_8270STD	||\sv5\c\chem\sv5.i\092910A.B\HSL0929A	|
7	|1_8270STD	||\SV5\C\chem\sv5.i\092910.B\HSL0929	|
8	|1_8270STD	||\SV5\C\chem\sv5.i\092910.B\QC001	|
9	|1_8270STD	||\SV5\C\chem\sv5.i\092810A.B\HSL0928	|
10	|1_8270STD	||\SV5\C\chem\sv5.i\092810.B\HSL0928	|
11	|1_8270STD	||\SV5\C\chem\sv5.i\092710.B\HSL0927	|
12	|1_8270STD	||\SV5\C\chem\sv5.i\092510.B\QC001	|
13	|1_8270STD	||\sv5\c\chem\sv5.i\092510.B\HSL0925	|
14	|1_8270STD	||\SV5\C\chem\sv5.i\092410.B\QC001	|
15	|1_8270STD	||\SV5\C\chem\sv5.i\092410.B\HSL0924	|
16	|1_8270STD	||\SV5\C\chem\sv5.i\092310A.B\HSL0923A	|
17	|1_8270STD	||\SV5\C\chem\sv5.i\092310A.B\QC001	|
18	|1_8270STD	||\SV5\C\chem\sv5.i\092310.B\QC001	|
19	|1_8270STD	||\SV5\C\chem\sv5.i\092310.B\HSL0923	|
20	|1_8270STD	||\SV5\C\chem\sv5.i\092210.B\HSL0922a	|
21	|1_8270STD	||\SV5\C\chem\sv5.i\092210.B\HSL0922	|
22	|1_8270STD	||\SV5\C\chem\sv5.i\092210.B\QC001	|
23	|1_8270STD	||\SV5\C\chem\sv5.i\092110.B\HSL0921	|
24	|1_8270STD	||\SV5\C\chem\sv5.i\092010.B\QC001	|
25	|1_8270STD	||\SV5\C\chem\sv5.i\092010.B\HSL0920	|
26	|1_8270STD	||\SV5\C\chem\sv5.i\091910a.B\HSL0919a	|
27	|1_8270STD	||\SV5\C\chem\sv5.i\091910.B\HSL0919	|
28	|1_8270STD	||\SV5\C\chem\sv5.i\091910.B\QC001	|
29	|1_8270STD	||\SV5\C\chem\sv5.i\091710.B\HSL0917	|
30	|1_8270STD	||\SV5\C\chem\sv5.i\091710.B\QC001	|
31	|1_8270STD	||\SV5\C\chem\sv5.i\091510b.B\HSL0915b	|
32	|1_8270STD	||\SV5\C\chem\sv5.i\091510b.B\QC003	|
33	|1_8270STD	||\sv5\c\chem\sv5.i\091010.B\HSL0910	|
34	|1_8270STD	||\SV5\C\chem\sv5.i\091010.B\QC001	|

35	1_8270STD	\\sv5\c\chem\sv5.i\090910a.B\HSL0909a
36	1_8270STD	\\SV5\C\chem\sv5.i\090910.B\HSL0909
37	1_8270STD	\\SV5\C\chem\sv5.i\090910.B\QC001
38	1_8270STD	\\SV5\C\chem\sv5.i\090810.B\HSL0908
39	1_8270STD	\\SV5\C\chem\sv5.i\090810.B\Primer
40	1_8270STD	\\sv5\c\chem\sv5.i\090710.B\HSL0907
41	1_8270STD	\\SV5\C\chem\sv5.i\090710.B\HSL0907
42	1_8270STD	\\sv5\c\chem\sv5.i\090110.B\HSL0901
43	1_8270STD	\\SV5\C\chem\sv5.i\083110.B\HSL0831
44	1_8270STD	\\sv5\c\chem\sv5.i\083010.B\QC001
45	1_8270STD	\\sv5\c\chem\sv5.i\083010.B\HSL0830
46	1_8270STD	\\SV5\C\chem\sv5.i\082710.B\QC001
47	1_8270STD	\\sv5\c\chem\sv5.i\082710.B\HSL0827
48	1_8270STD	\\SV5\C\chem\sv5.i\082610.B\HSL0826
49	1_8270STD	\\SV5\C\chem\sv5.i\082610.B\QC001
50	1_8270STD	\\SV5\C\chem\sv5.i\082510.B\QC001
51	1_8270STD	\\SV5\C\chem\sv5.i\082510.B\HSL0825
52	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823
53	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H
54	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
55	1_8270STD	\\SV5\C\chem\sv5.i\082310A.B\HSL0823A
56	1_8270STD	\\SV5\C\chem\sv5.i\082010.B\HSL0820
57	1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001
58	1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A
59	1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818
60	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817D
61	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817H

Signal Calibration Report

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

Calibration Formulas

Calibration Mode: by Response

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

Initial Calibration Table

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

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

Continuing Calibration Table

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

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

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

|Ind|	Sublist	Calibration File
| 1|	1_8270STD	\\sv5\c\chem\sv5.i\100210.B\HSL1002H
| 2|	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D

3	|1_8270STD	\\SV5\C\chem\sv5.i\100110.B\HSL1001	|
4	|1_8270STD	\\SV5\C\chem\sv5.i\093010.B\HSL0930	|
5	|1_8270STD	\\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	
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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

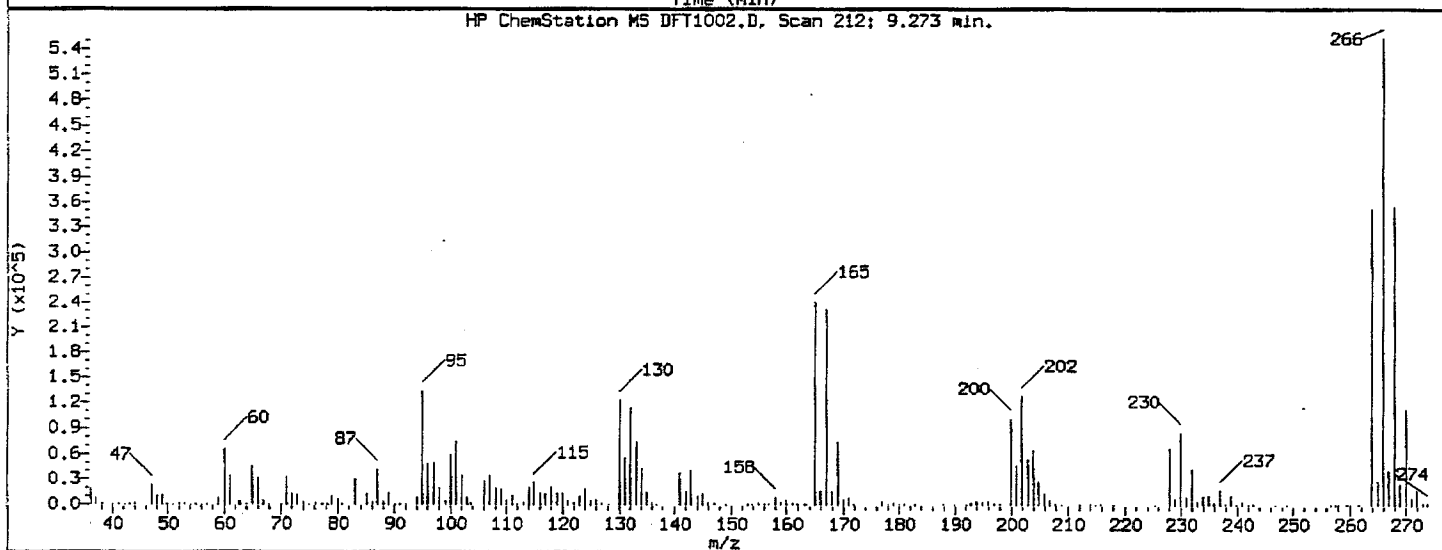
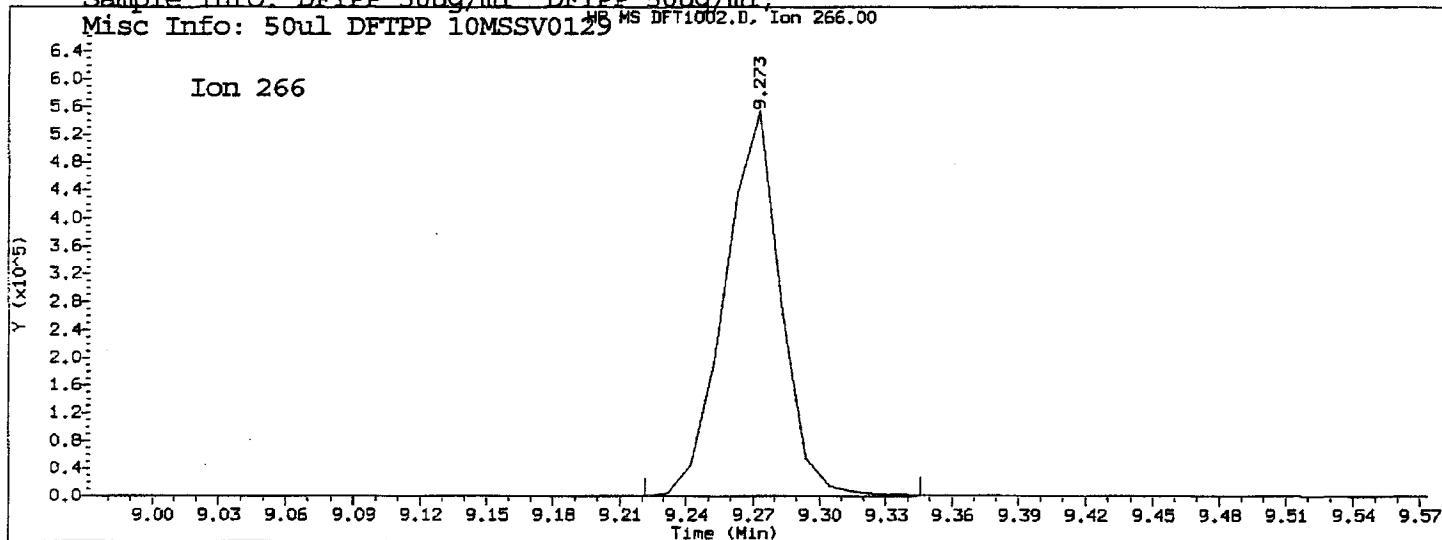
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

 *** 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 10MSSV0125 MS DFT1002.D, Ion 266.00



Pentachlorophenol

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

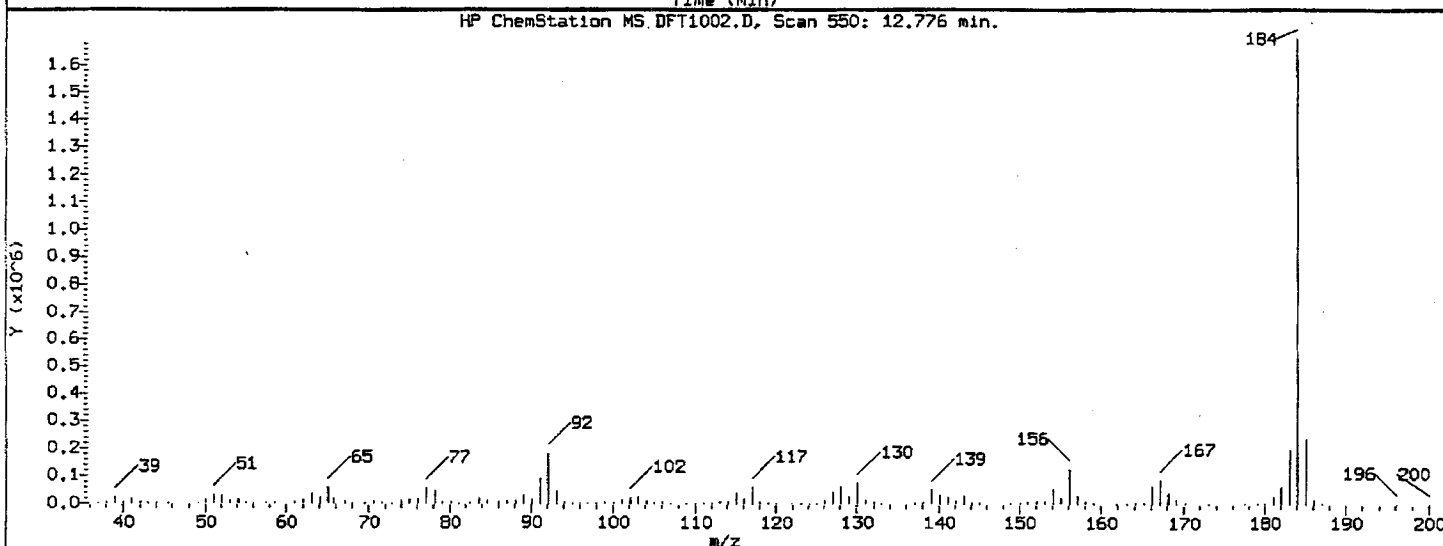
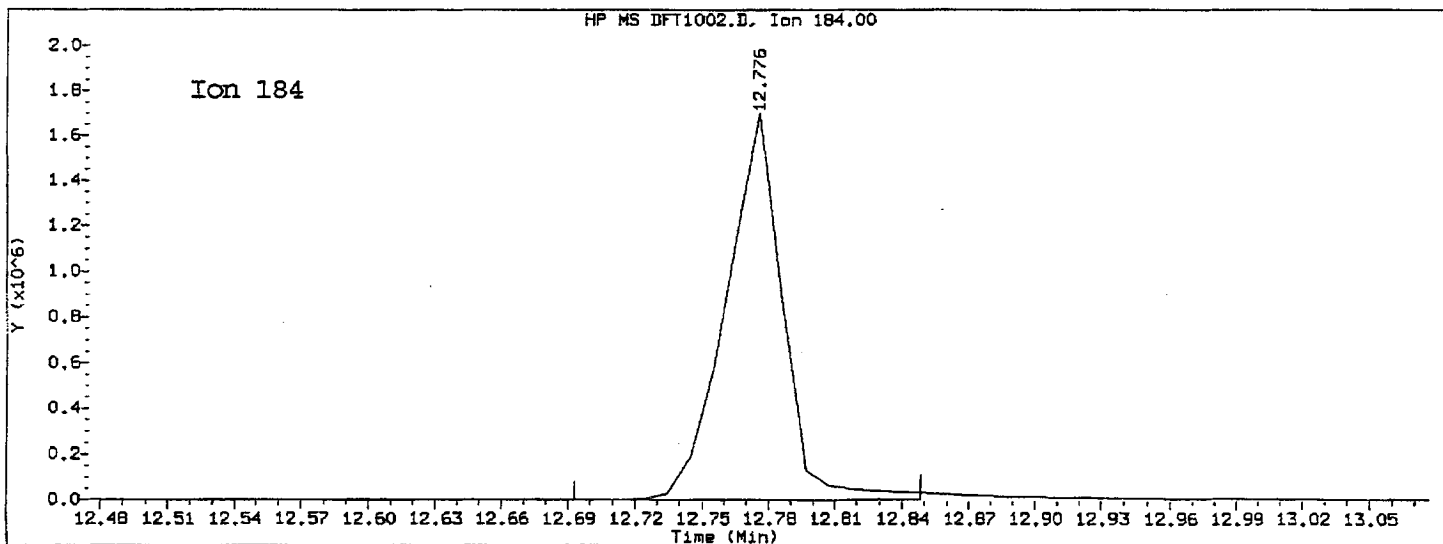
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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

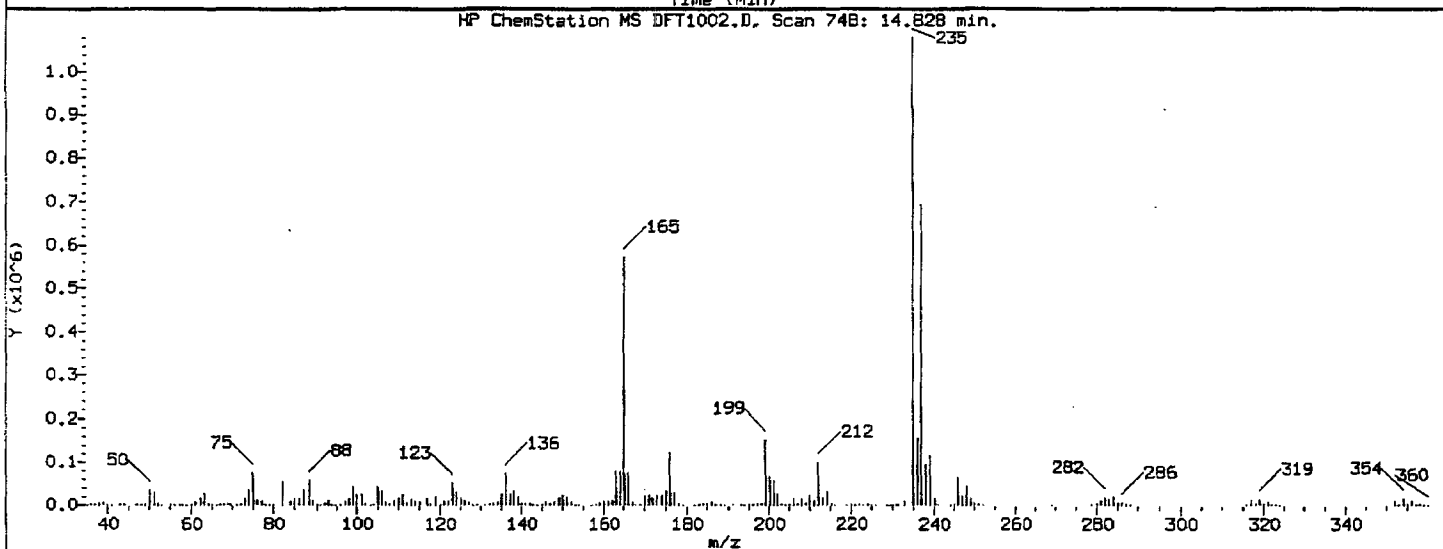
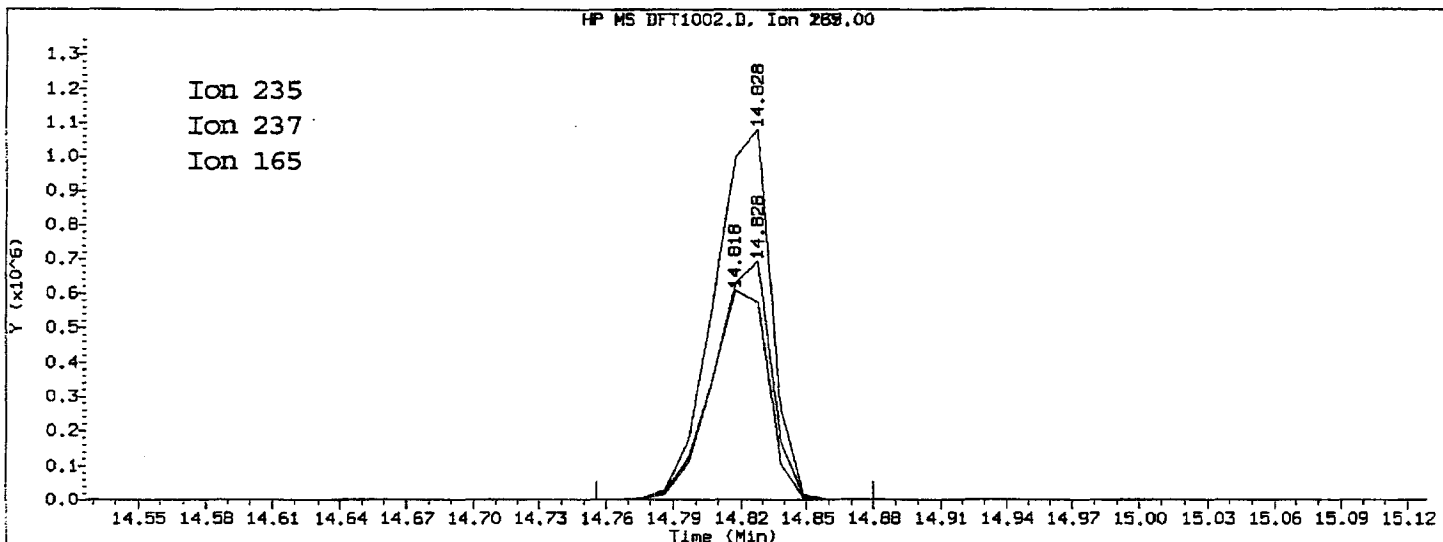
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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: DFIPP 50ug/ml DFIPP 50ug/ml;
Misc Info: 50ul DFIPP 10MSSV0129



4,4'-DDT

=====

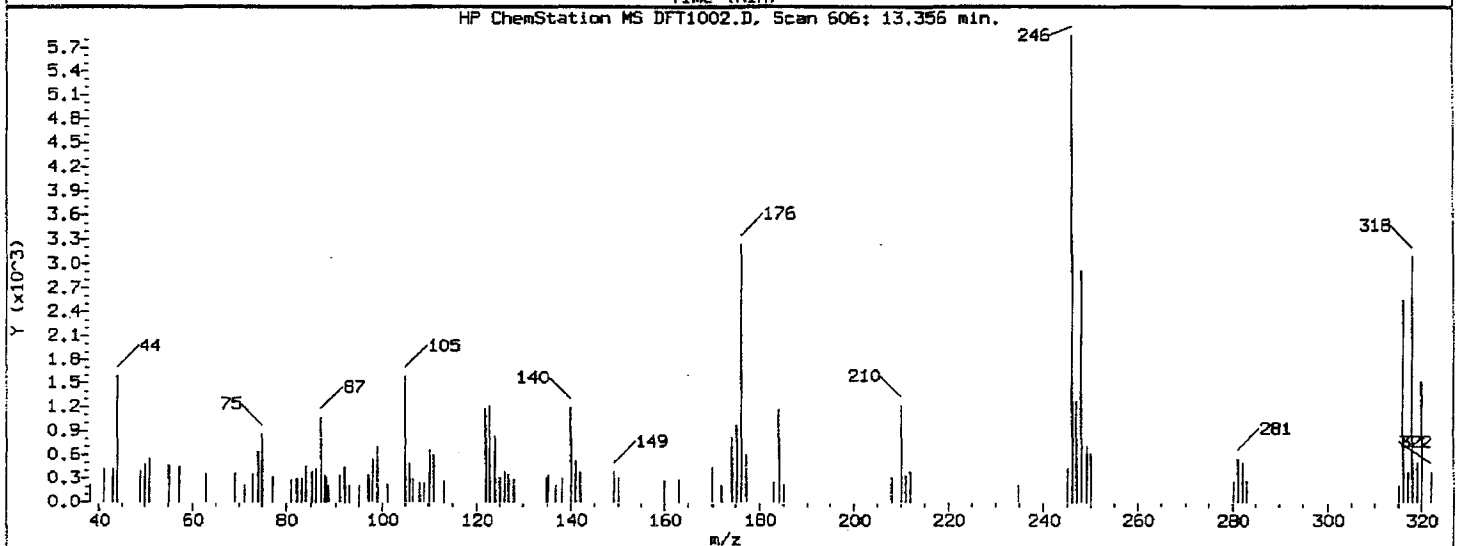
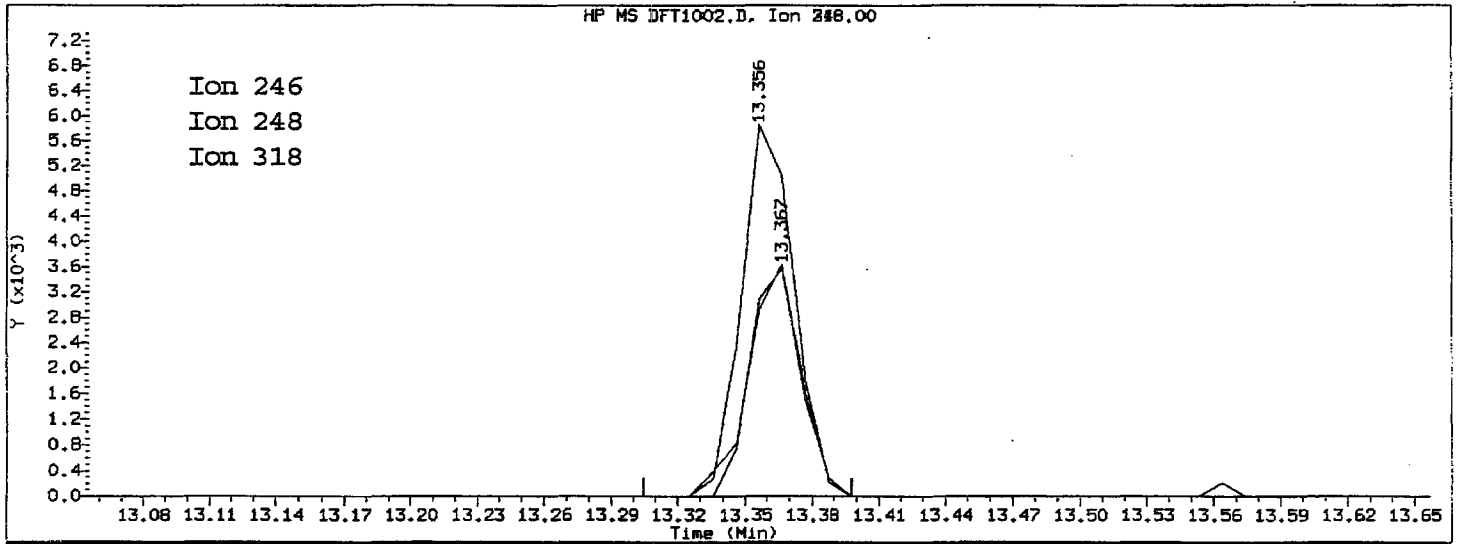
Exp. RT = 14.942

Found RT = 14.828

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

Report Date: 10/03/2010 11:04

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



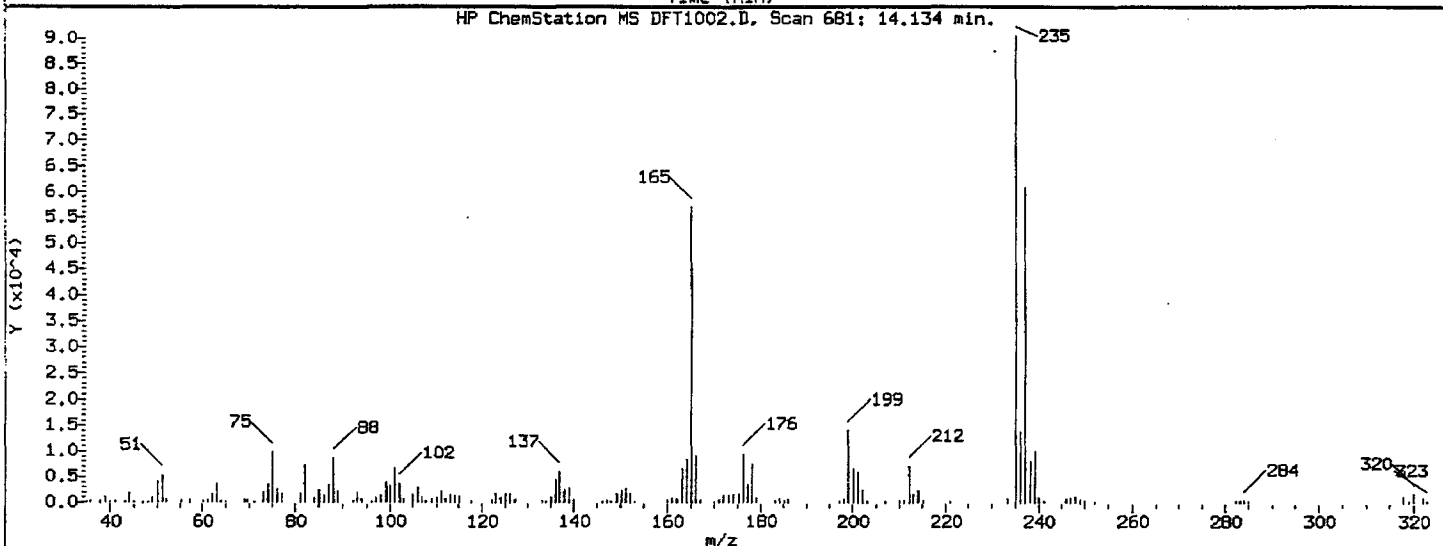
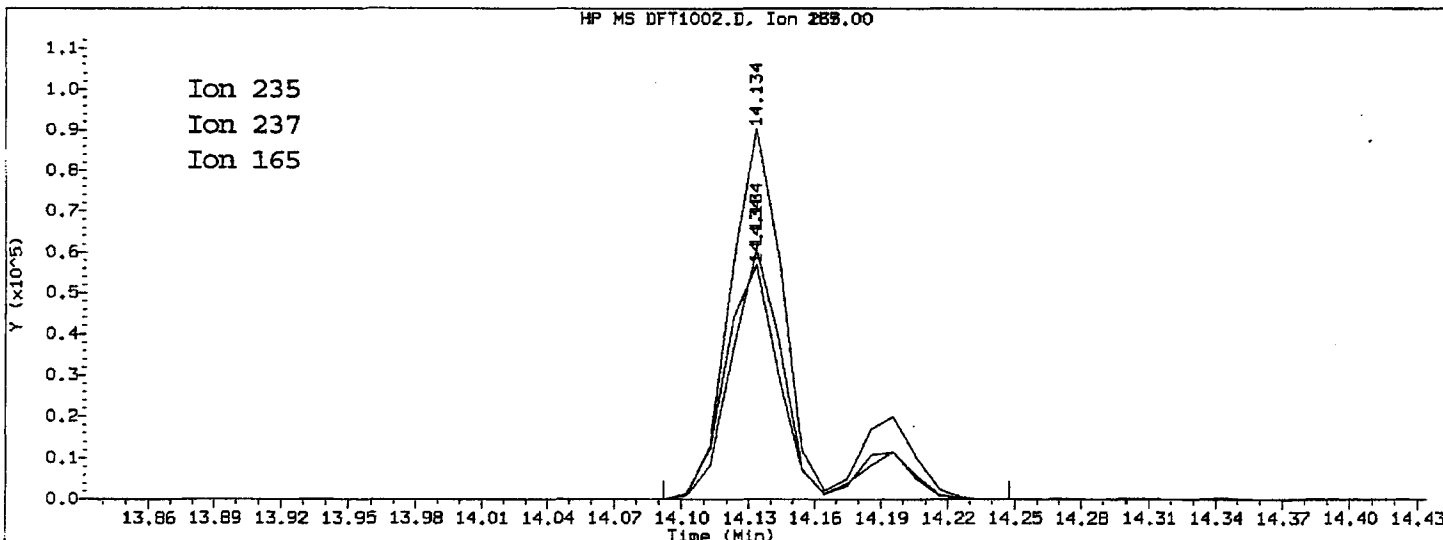
4,4'-DDE

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

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

Report Date: 10/03/2010 11:04

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

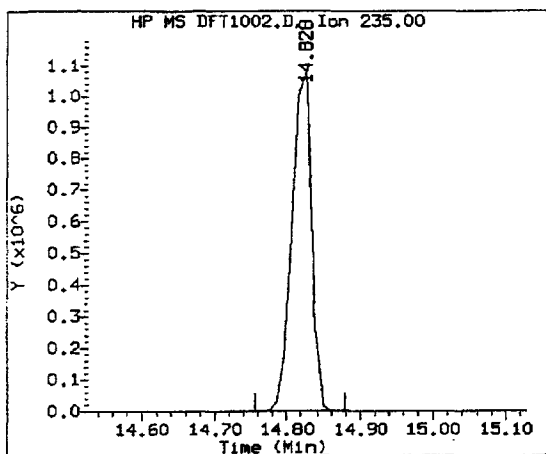


4,4'-DDD

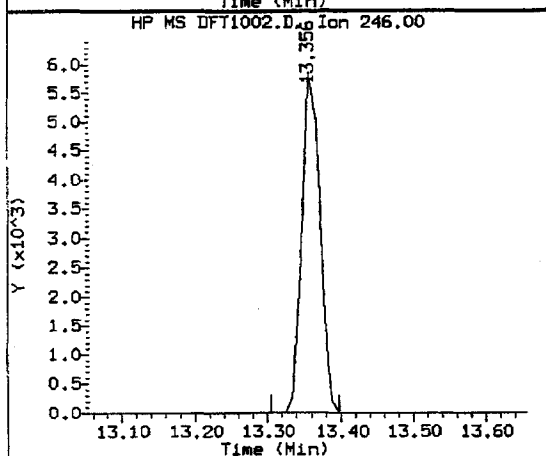
=====

Exp. RT = 14.248
Found RT = 14.134

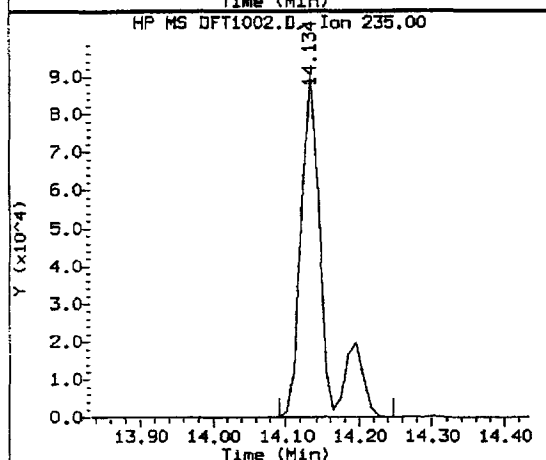
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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



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



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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\100210.B\DFT1002.D
 Lab Smp Id: DFTPP 50ug/ml
 Inj Date : 02-OCT-2010 12:06
 Operator : KT
 Smp Info : DFTPP 50ug/ml;
 Misc Info : 50ul DFTPP 10MSSV0129
 Comment :
 Method : \\SV5\C\chem\sv5.i\100210.B\DFTPP.m
 Meth Date : 17-Aug-2010 14:10 scotts
 Cal Date :
 Als bottle: 96
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: SV5

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

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(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:

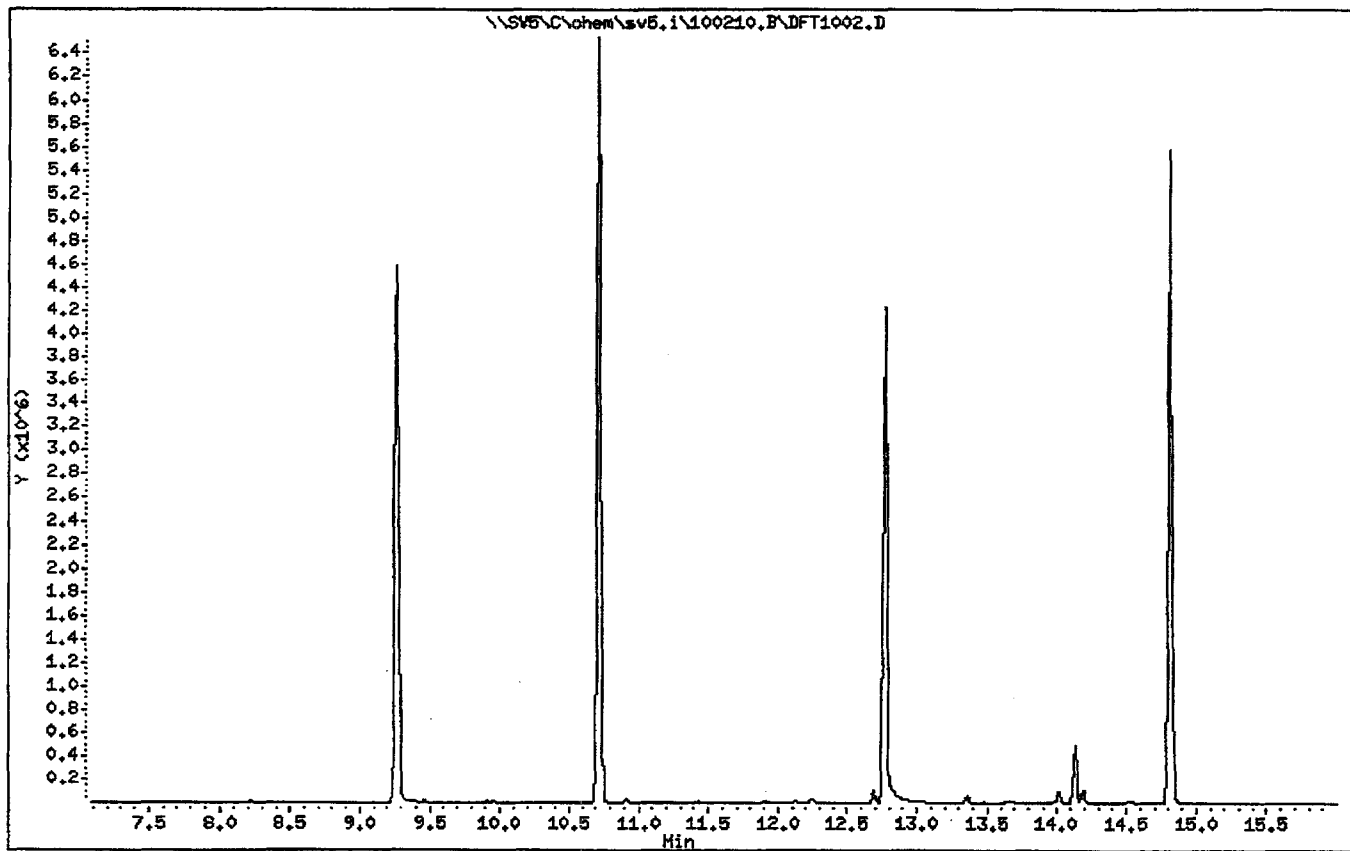
Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Date: 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

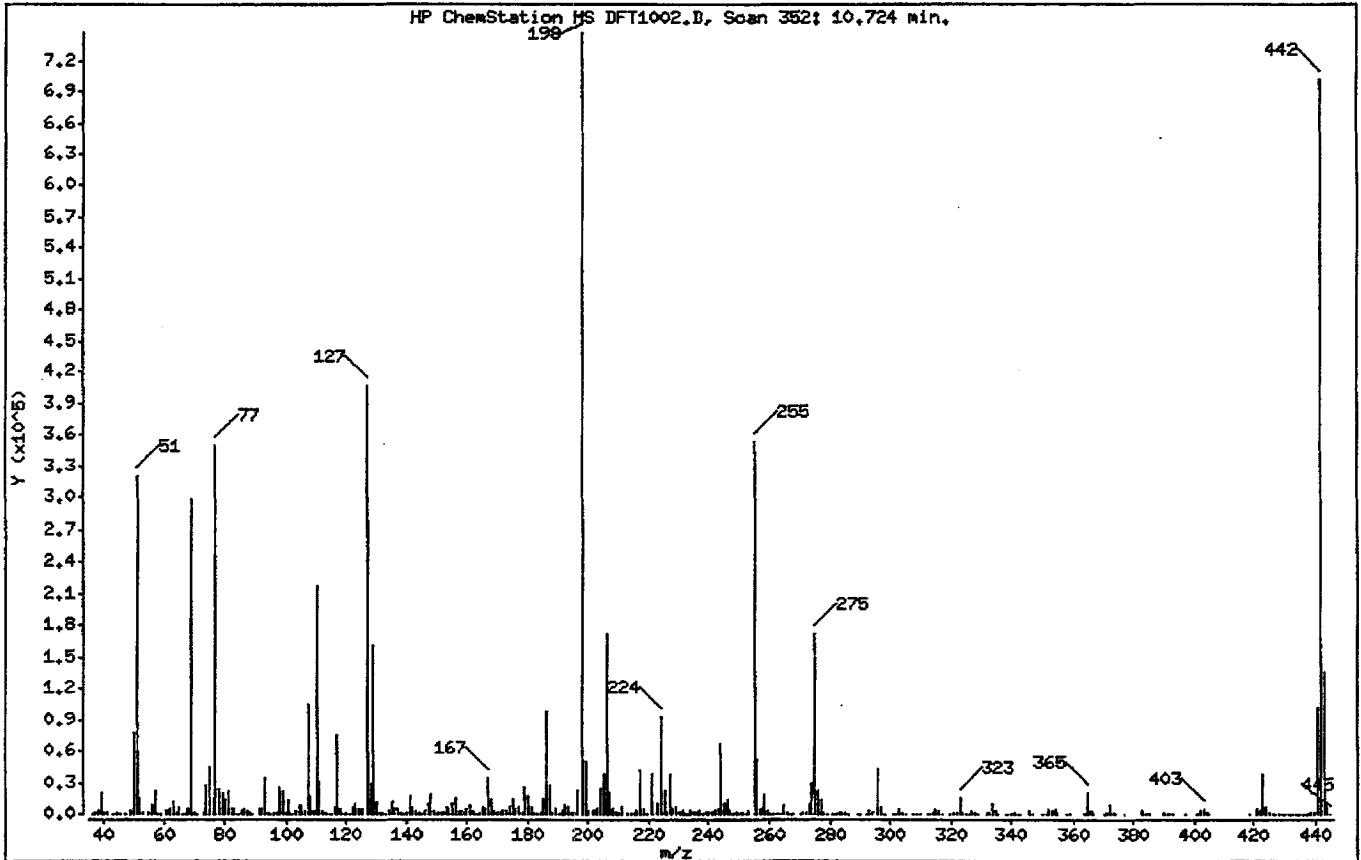
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



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

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

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

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 36.10	203	| 130.00	12809	| 219.20	447	| 321.00	1763
| 37.10	1216	| 131.00	2267	| 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	| 324.60	382
| 41.10	949	| 135.10	11378	| 226.10	1736	| 326.00	507
| 43.10	352	| 136.00	4886	| 227.00	37976	| 327.00	2789
| 44.00	922	| 137.00	5203	| 228.00	4945	| 328.00	1262
| 45.00	428	| 138.00	1265	| 229.00	7548	| 329.10	343
| 47.00	204	| 139.00	791	| 230.00	1024	| 331.90	894
| 49.10	2676	| 140.00	2233	| 231.10	2757	| 333.00	1455
| 50.10	77024	| 141.00	17480	| 232.00	528	| 334.10	9590
| 51.10	320640	| 142.00	7259	| 233.00	641	| 335.00	2774
| 52.10	16189	| 143.00	3921	| 234.00	2909	| 336.00	291
| 53.10	963	| 144.00	1375	| 235.00	2419	| 339.00	369
| 55.00	1815	| 145.10	829	| 236.10	1608	| 340.00	399
| 56.00	8872	| 146.00	3251	| 237.00	3192	| 341.00	2042
| 57.00	22504	| 147.00	9463	| 238.00	581	| 342.10	852
| 58.00	755	| 148.00	18744	| 239.00	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	3682	| 350.30	205
| 63.10	11199	| 152.10	1506	| 243.10	4924	| 351.00	283
| 64.10	1448	| 153.00	6113	| 244.10	66488	| 352.00	5049
| 65.10	6509	| 154.00	5445	| 245.10	9865	| 353.10	3110
| 66.00	499	| 155.00	10151	| 246.00	14573	| 354.00	5432
| 67.10	461	| 156.10	14866	| 247.00	3022	| 355.00	1087
| 68.00	4826	| 157.10	3676	| 248.10	618	| 358.00	241
| 69.00	298048	| 158.10	3734	| 249.00	2441	| 359.00	574
| 70.10	1913	| 159.00	2313	| 250.00	627	| 363.50	249
| 71.10	410	| 160.00	5246	| 250.90	1000	| 365.00	20496
| 73.10	2021	| 161.10	8666	| 252.00	756	| 366.00	3166
| 74.00	28000	| 162.00	2863	| 253.10	2603	| 367.00	225
| 75.00	45304	| 163.10	562	| 255.00	353024	| 370.10	477
| 76.10	15795	| 164.00	1067	| 256.00	51440	| 370.90	1541

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

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

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 77.10	349952	| 165.00	6962	| 257.00	4474	| 372.10	8489
| 78.10	23464	| 166.00	5717	| 258.00	19604	| 373.10	1814
| 79.00	20048	| 167.00	33648	| 259.10	3095	| 373.80	348
| 80.00	14146	| 168.00	13682	| 260.00	645	| 377.10	263
| 81.00	22008	| 169.00	2802	| 261.10	797	| 383.00	2624
| 82.00	5822	| 170.00	1014	| 262.20	249	| 383.90	598
| 83.00	5093	| 171.00	1339	| 263.00	269	| 385.00	289
| 84.00	814	| 172.00	3224	| 264.10	532	| 390.00	1367
| 85.00	3848	| 173.00	4109	| 265.00	7904	| 391.00	754
| 86.00	5985	| 174.00	7189	| 266.00	1181	| 392.10	664
| 87.00	2652	| 175.10	13638	| 267.20	204	| 393.20	281
| 88.00	1078	| 176.10	4293	| 267.60	232	| 397.00	230
| 89.00	472	| 177.00	6577	| 270.00	489	| 400.90	335
| 91.00	5074	| 178.10	1972	| 271.00	901	| 402.00	3464
| 92.00	5292	| 179.00	25912	| 272.10	1129	| 403.00	5568
| 93.00	34848	| 180.00	16984	| 273.00	10963	| 404.10	1777
| 94.00	2386	| 181.00	7182	| 274.00	30032	| 405.00	292
| 95.00	749	| 182.00	1363	| 275.00	170816	| 418.90	289
| 96.00	1660	| 183.00	559	| 276.10	22944	| 421.00	5400
| 97.10	1007	| 184.10	2227	| 277.00	13493	| 422.00	4183
| 98.00	25944	| 185.10	13301	| 278.10	2251	| 423.00	37592
| 99.00	21688	| 186.00	97584	| 279.00	648	| 424.00	6802
| 100.00	1844	| 187.10	27792	| 281.10	266	| 425.00	930
| 101.00	13609	| 188.10	2556	| 282.00	217	| 426.50	251
| 102.10	646	| 189.00	5094	| 283.00	1957	| 427.30	338
| 103.00	3748	| 189.90	756	| 284.00	1097	| 428.40	200
| 104.00	8390	| 191.10	2995	| 285.10	2569	| 429.20	300
| 105.00	8359	| 192.00	7909	| 286.10	444	| 430.20	272
| 106.10	3007	| 193.00	7605	| 289.00	691	| 431.10	404
| 107.00	104896	| 194.10	1998	| 290.10	589	| 431.50	324
| 108.00	17616	| 195.10	1331	| 292.10	763	| 432.20	298
| 109.00	3545	| 196.00	22448	| 293.00	3141	| 432.50	326
| 110.00	218112	| 198.00	746688	| 294.10	1275	| 433.30	317
| 111.00	30736	| 199.00	49104	| 296.00	42616	| 433.70	342
| 112.00	4281	| 200.00	4038	| 297.00	6196	| 434.30	362

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

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

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1310	201.60	4029	298.00	465	434.90	650
114.40	467	203.00	4788	301.00	504	435.90	530
115.00	646	204.00	23416	302.00	695	436.50	586
116.10	6327	205.00	38288	303.10	5810	436.90	846
117.00	75520	206.10	172352	304.00	2035	437.50	828
118.00	5507	207.10	21328	305.10	290	438.20	1136
119.00	839	208.00	5487	308.00	764	439.30	1287
120.10	1180	209.00	2186	309.10	446	441.00	100984
121.00	807	210.00	2002	310.00	839	442.00	702528
122.00	6408	211.10	7473	312.20	271	443.00	136064
123.00	10302	213.00	410	312.90	292	444.00	12344
124.00	4600	214.10	372	314.00	2431	445.10	689
125.00	4447	215.10	1837	315.00	5363		
127.00	406528	216.00	3226	316.00	2900		
128.00	28392	217.00	41648	317.10	363		
129.00	161024	218.00	5388	319.80	287		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 12:27
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 005 ug/ml CS-1;1;1;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 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	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

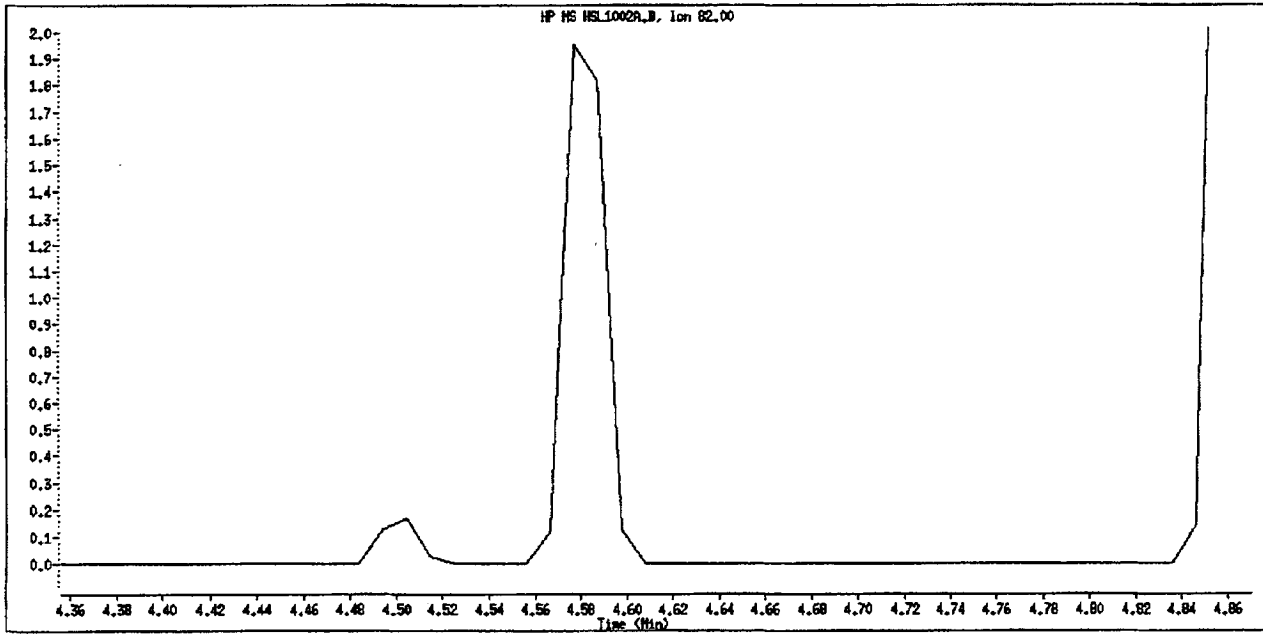
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50 Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51 1,2,4-Trichlorobenzene	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)	44267	5.00000	4.822
128 Pyrene	202	11.665	11.665	(0.847)	71230	5.00000	5.030
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	37074	5.00000	4.574
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	36798	5.00000	5.185
138 Benzo (a) Anthracene	228	13.758	13.758	(0.998)	62384	5.00000	5.170
139 Chrysene	228	13.820	13.831	(1.003)	59618	5.00000	4.830
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	22168	5.00000	4.870
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.024)	51997	5.00000	5.319
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	76353	5.00000	4.886
144 Benzo (b) fluoranthene	252	15.572	15.582	(0.963)	45075	5.00000	4.473 (Q)
145 Benzo (k) fluoranthene	252	15.613	15.623	(0.966)	68403	5.00000	5.288 (q)
147 Benzo (e) pyrene	252	15.996	16.007	(0.990)	50295	5.00000	4.786
148 Benzo (a) pyrene	252	16.069	16.079	(0.994)	54694	5.00000	4.788
151 Indeno (1,2,3-cd) pyrene	276	17.789	17.800	(1.101)	41053	5.00000	4.443
152 Dibenzo (a,h) anthracene	278	17.841	17.841	(1.104)	49018	5.00000	4.749
153 Benzo (g,h,i) perylene	276	18.224	18.235	(1.128)	53428	5.00000	4.781

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

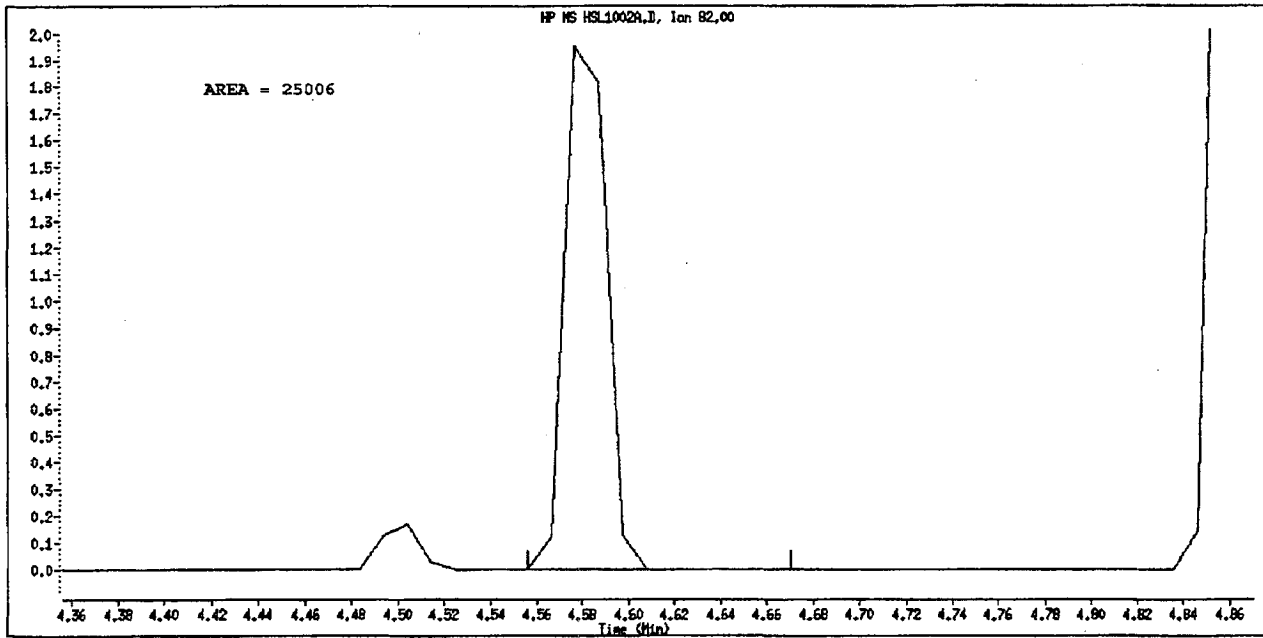
QC Flag Legend

- 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.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



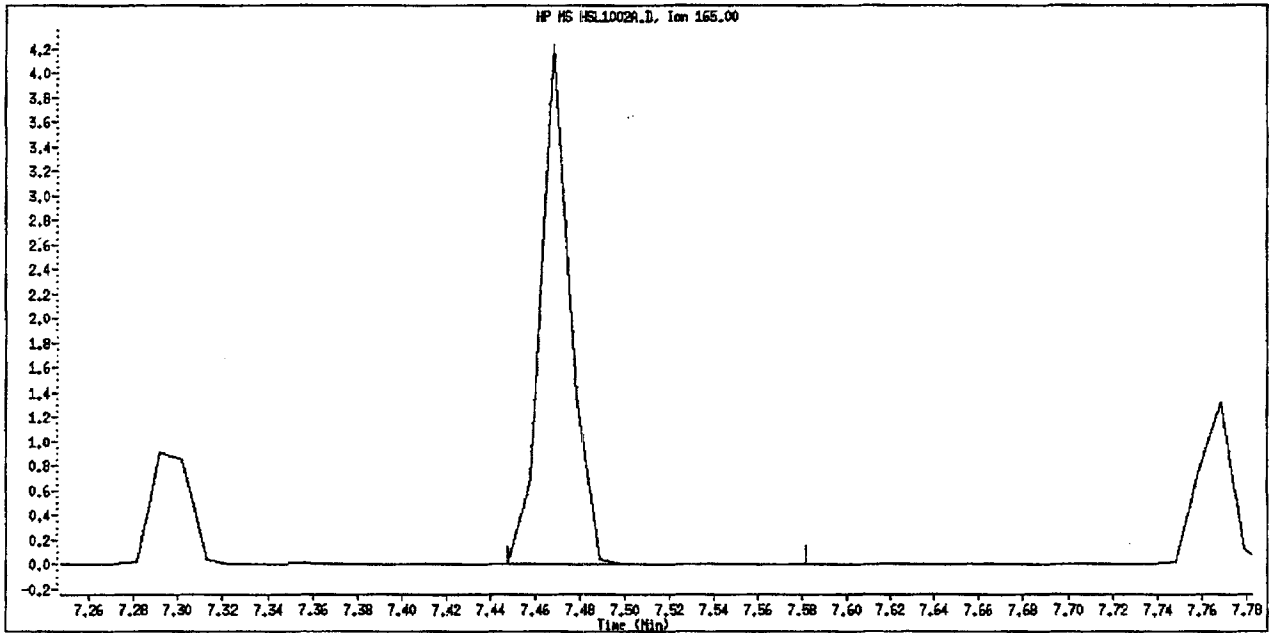
Original Integration



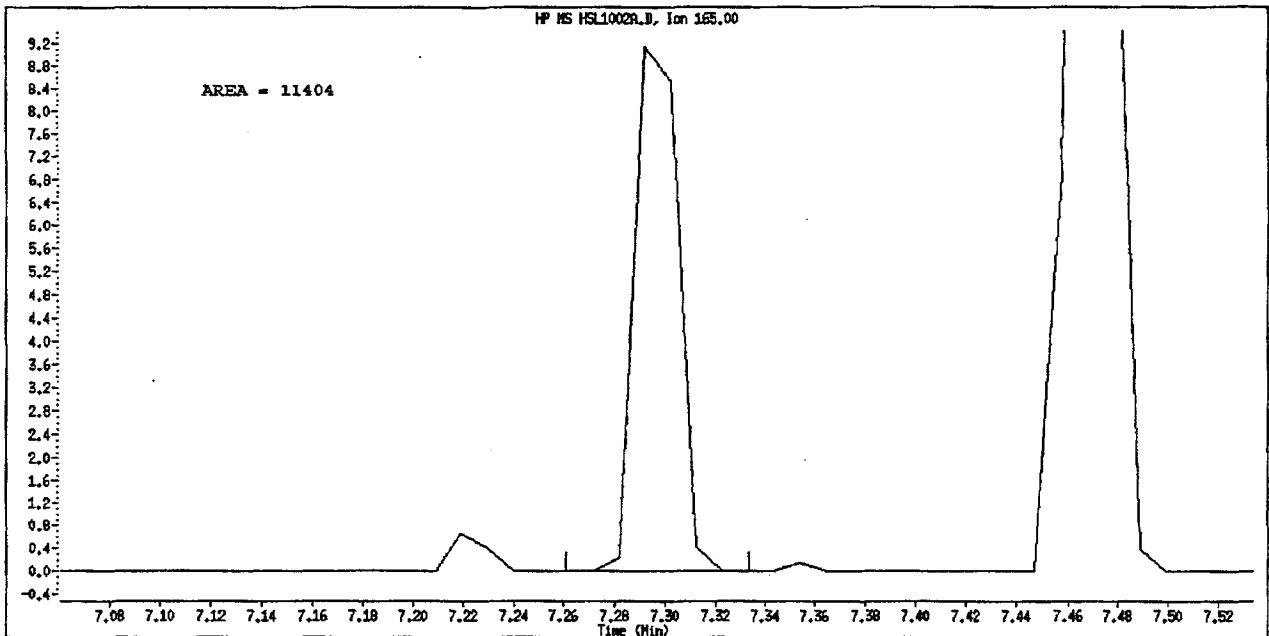
Manual Integration

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

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
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: Wrong Peak

TestAmerica West Sacramento

Method 8270C

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

Compounds	QUANT	SIG	AMOUNTS				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)	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.

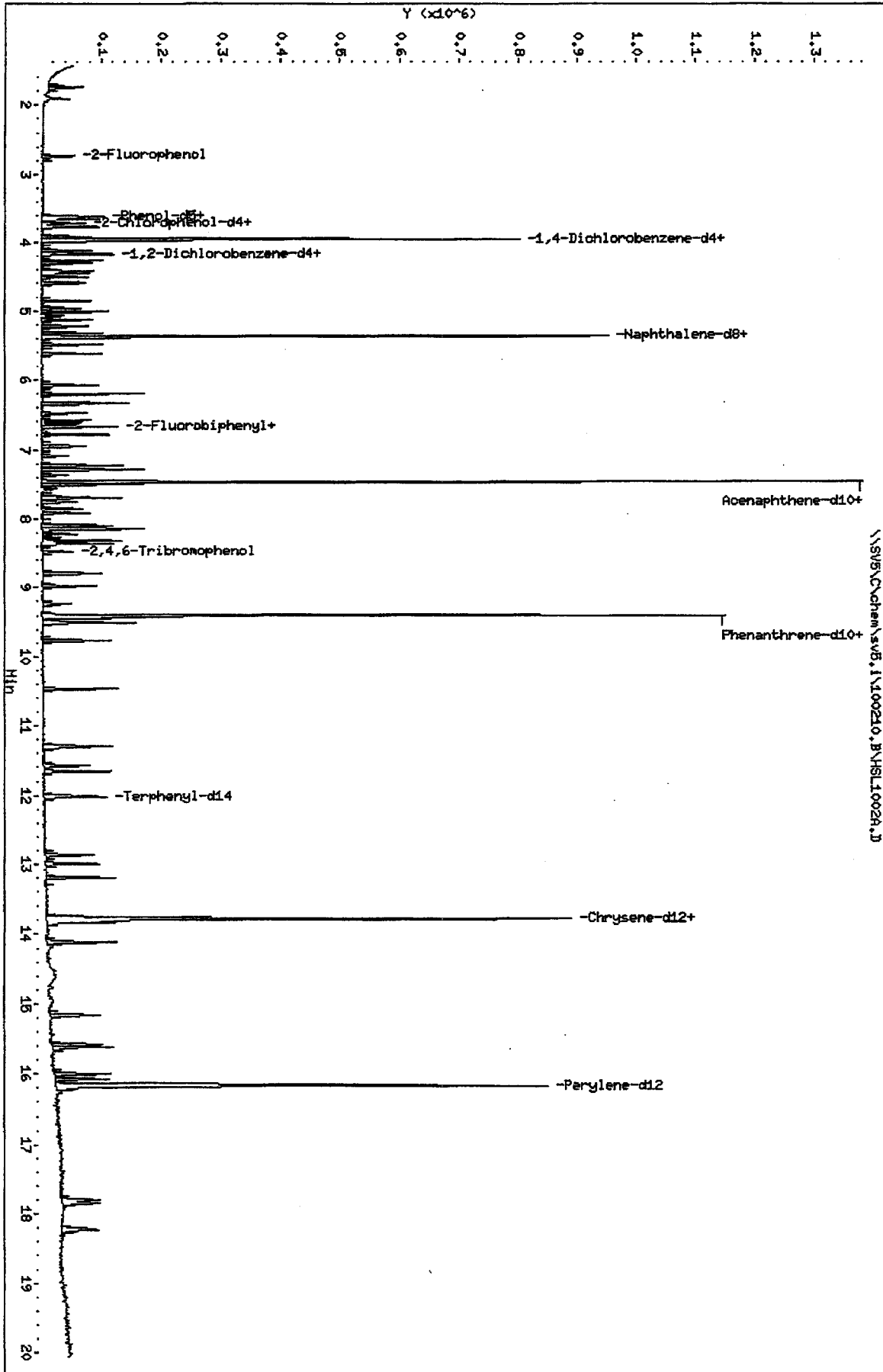
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141539	15.42
2 Naphthalene-d8	530514	265257	1061028	605687	14.17
3 Acenaphthene-d10	282538	141269	565076	321839	13.91
4 Phenanthrene-d10	462722	231361	925444	496356	7.27
5 Chrysene-d12	435850	217925	871700	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\HSL1002A.D
 Date: 02-01-2010 12:27
 Client ID: 8270F.H
 Sample Info: HSL_005 ug/ml CS-1:11111114
 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
 Als 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 (q)	
16 Pyridine	79	1.737	1.726	(0.439)	40141	10.0000	8.917 (Q)	
23 Aniline	93	3.654	3.654	(0.924)	63074	10.0000	9.568 (q)	
24 Phenol	94	3.623	3.623	(0.916)	57313	10.0000	9.631 (Q)	
26 Bis(2-chloroethyl)ether	93	3.716	3.716	(0.940)	40383	10.0000	9.677	
27 2-Chlorophenol	128	3.768	3.768	(0.953)	45449	10.0000	9.950	
28 1,3-Dichlorobenzene	146	3.913	3.923	(0.990)	49415	10.0000	9.932	
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	52537	10.0000	10.10	
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	30277	10.0000	9.862	
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	47666	10.0000	9.966	
32 2-Methylphenol	108	4.255	4.255	(1.076)	40581	10.0000	9.714	
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	64869	10.0000	9.768	
34 4-Methylphenol	108	4.421	4.421	(1.118)	43497	10.0000	9.803	
36 Hexachloroethane	117	4.504	4.504	(1.139)	17770	10.0000	10.03	
37 N-Nitrosodipropylamine	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	

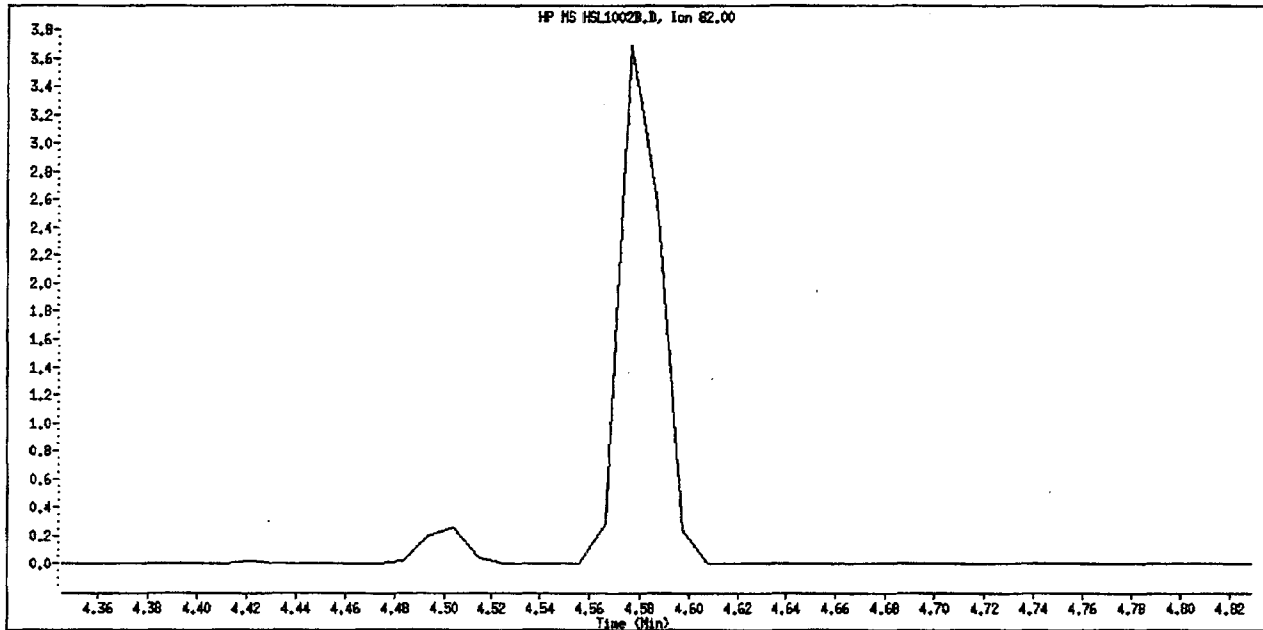
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis (2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.418
51 1,2,4-Trichlorobenzene	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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.556 (A)

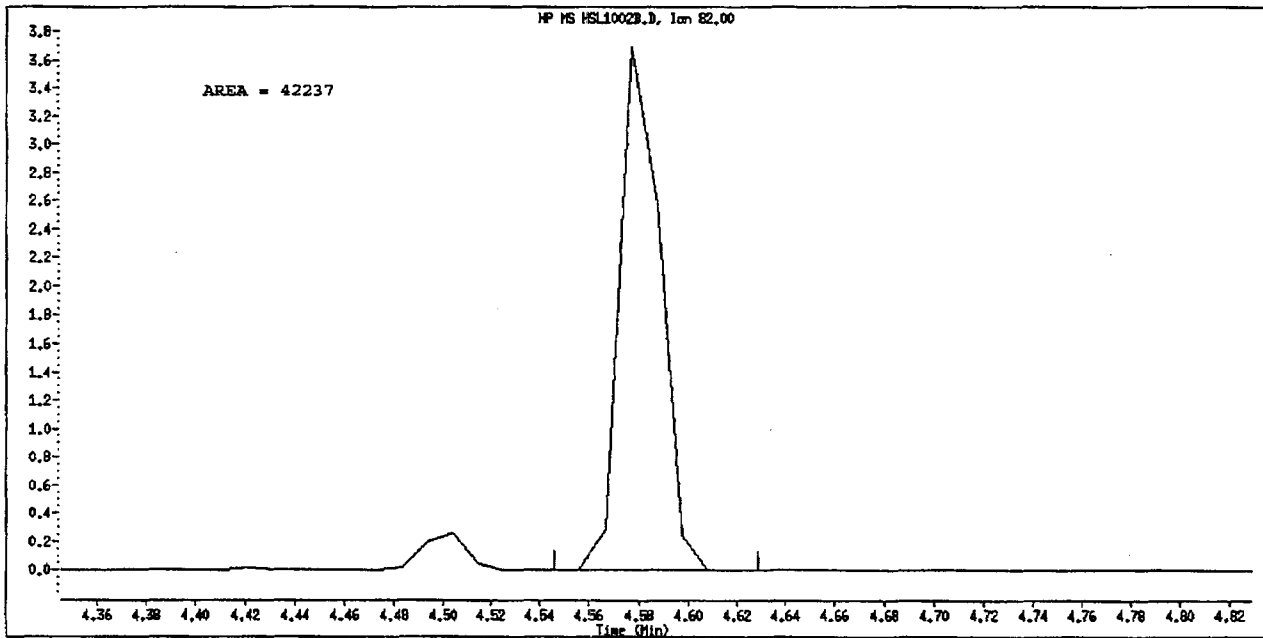
QC Flag Legend

- 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



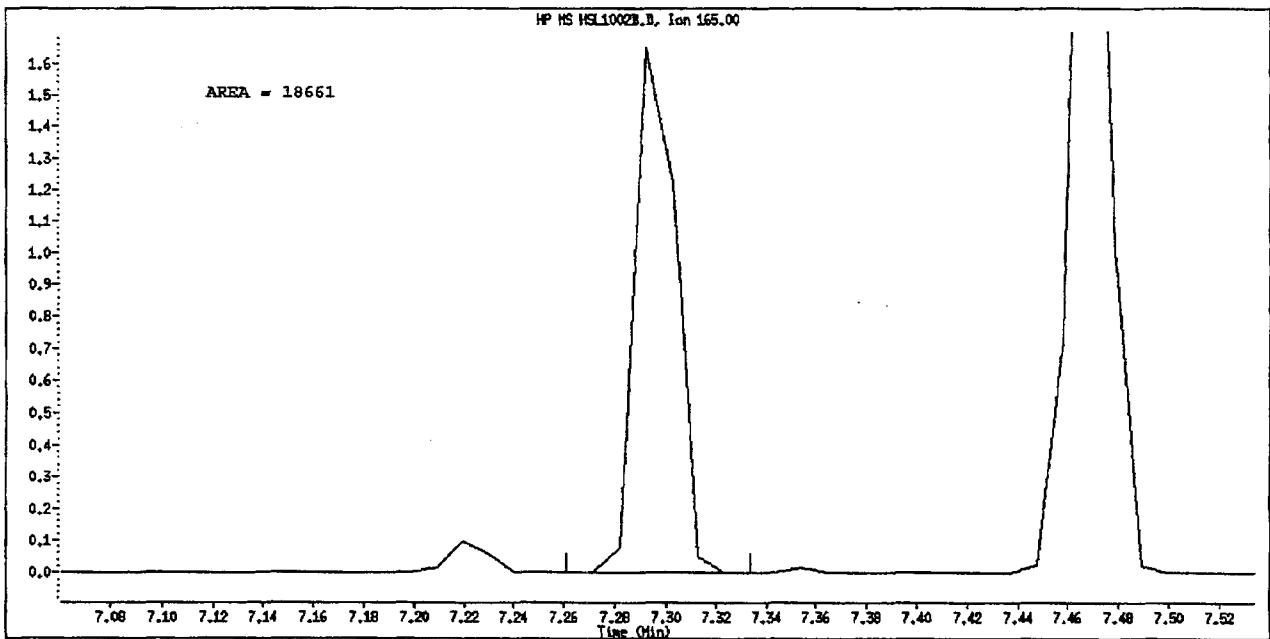
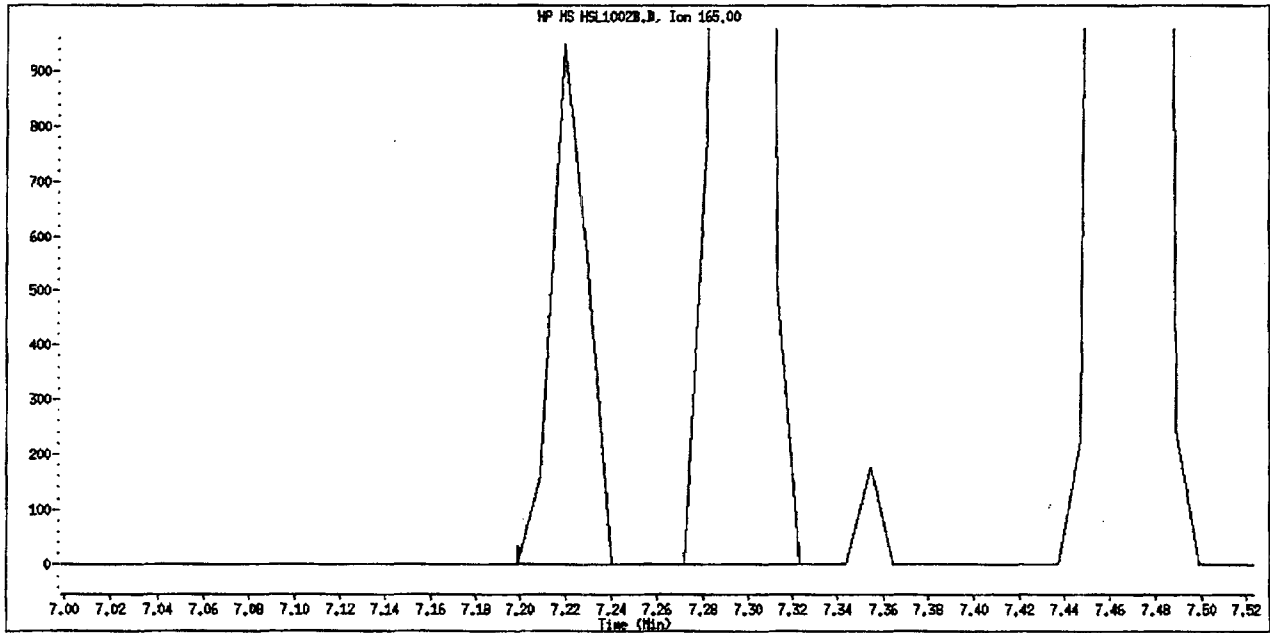
Original Integration



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: truonk
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-Nitrosodipropylamine	70	4.442	4.442	(1.123)	28335	10.0000	8.809	
42 Nitrobenzene	77	4.597	4.597	(0.857)	40198	10.0000	9.246	
44 Isophorone	82	4.856	4.856	(0.905)	76804	10.0000	9.318	
45 2-Nitrophenol	139	4.960	4.960	(0.925)	23221	10.0000	9.784	
46 2,4-Dimethylphenol	107	5.012	5.012	(0.934)	42128	10.0000	9.559	

10-3-10

Compounds	QUANT SIG		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	10.005
140 3,3'-Dichlorobenzidine	252		13.799	13.799	(1.002)	38850	10.0000	9.762
141 bis(2-ethylhexyl)Phthalate	149		14.110	14.110	(1.024)	83377	10.0000	9.194
142 Di-n-octylphthalate	149		15.157	15.167	(1.100)	126961	10.0000	8.756
144 Benzo(b)fluoranthene	252		15.572	15.582	(0.963)	84929	10.0000	8.548 (Q)
145 Benzo(k)fluoranthene	252		15.613	15.623	(0.966)	122065	10.0000	10.51 (q)
147 Benzo(e)pyrene	252		15.996	16.007	(0.990)	97140	10.0000	9.863
148 Benzo(a)pyrene	252		16.069	16.079	(0.994)	102327	10.0000	9.463
151 Indeno(1,2,3-cd)pyrene	276		17.789	17.800	(1.101)	76748	10.0000	8.022
152 Dibenzo(a,h)anthracene	278		17.841	17.841	(1.104)	88393	10.0000	9.016
153 Benzo(g,h,i)perylene	276		18.224	18.235	(1.128)	103135	10.0000	9.811

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 02-OCT-2010
 Lab File ID: HSL1002B.D Calibration Time: 13:44
 Lab Smp Id: HSL 010 ug/ml CS-2 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;10MSSV0308;0;8270F.M

Test Mode:
 Use Initial Calibration Level 4.

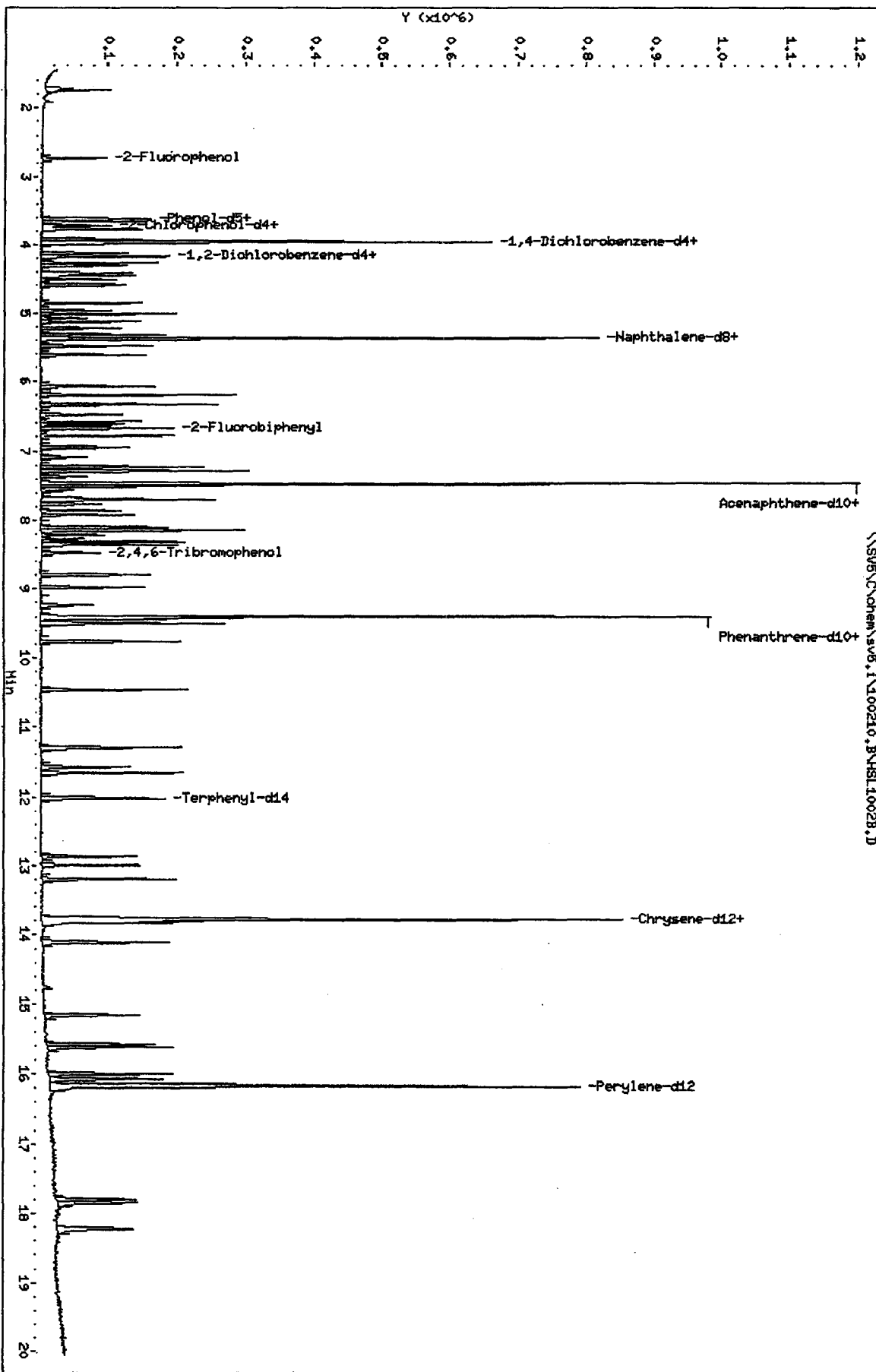
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	116839	-4.72
2 Naphthalene-d8	530514	265257	1061028	493196	-7.03
3 Acenaphthene-d10	282538	141269	565076	272639	-3.50
4 Phenanthrene-d10	462722	231361	925444	428440	-7.41
5 Chrysene-d12	435850	217925	871700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

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

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

Data File: \\SVB\C\chem\sv5.1\100210.B\HSL1002B.D
Date: 02-OCT-2010 12:53
Client ID: 8279F.M
Sample Info: HSL_010 ug/ml CS-211121114
Column phase:

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



TestAmerica West Sacramento

Method 8270C

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	3.954	3.955 (1.000)	145926	40.0000		
* 2 Naphthalene-d8	136	5.364	5.374 (1.000)	625682	40.0000	(Q)	
* 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

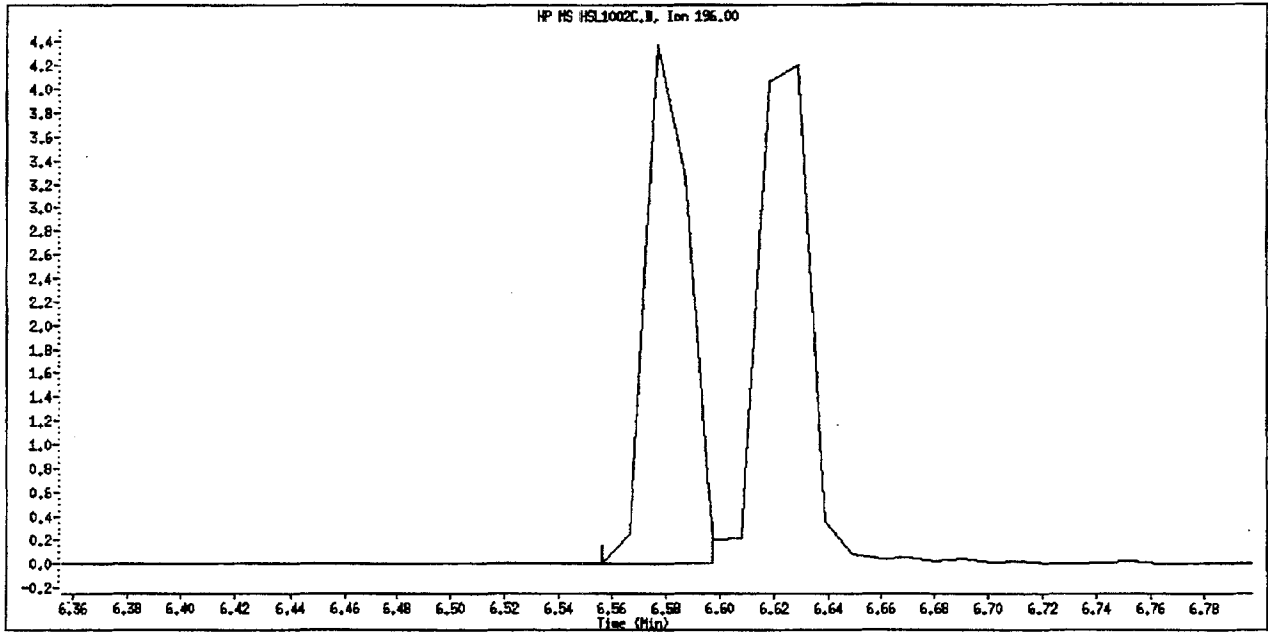
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	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 (g)
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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
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M 162 benzo b,k Fluoranthene Totals	252				627842	20.0000	19.61 (A)

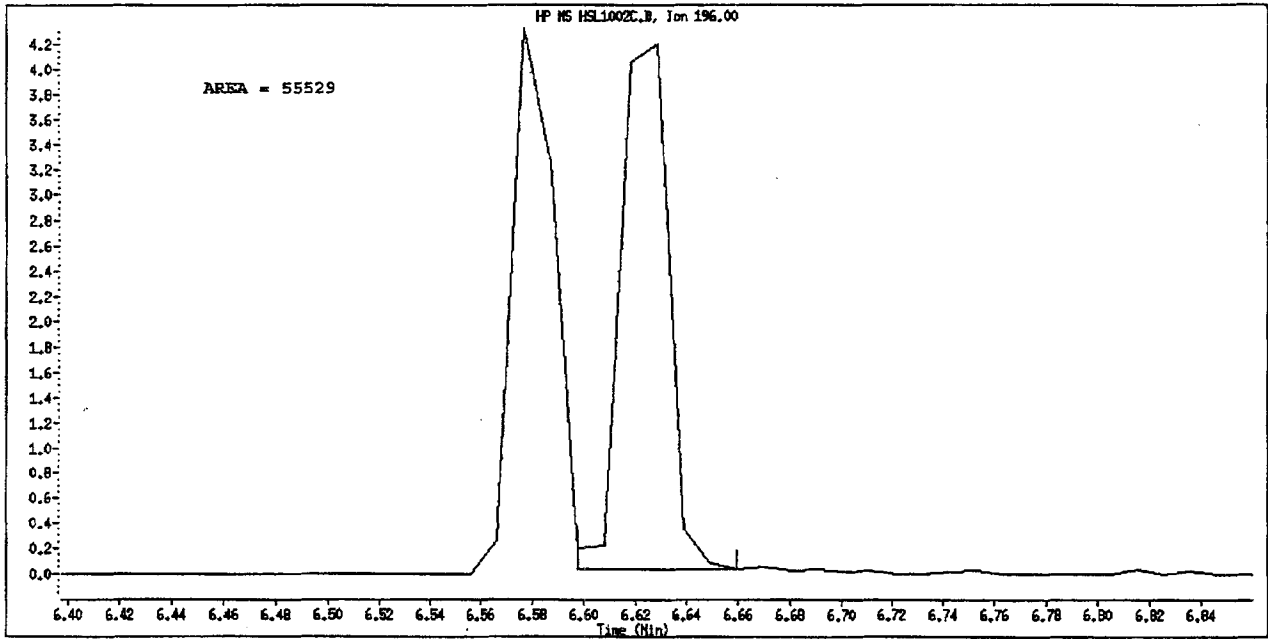
QC Flag Legend

- 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: sv5.1
Client ID: 8270F.M
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 10/03/2010



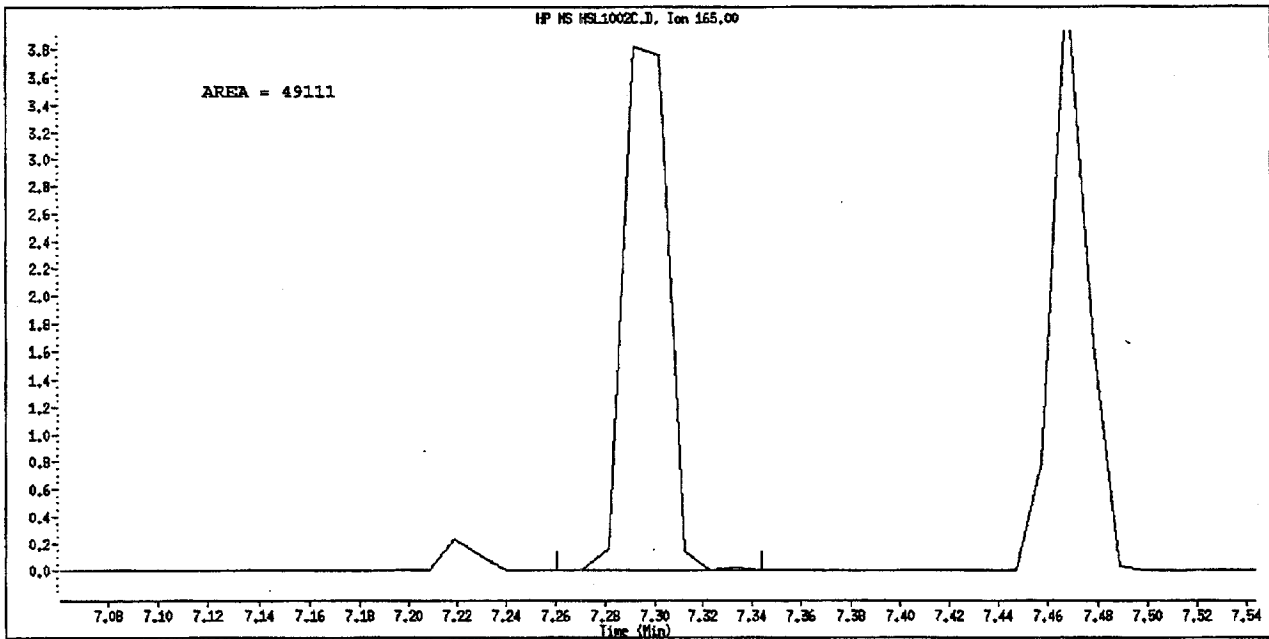
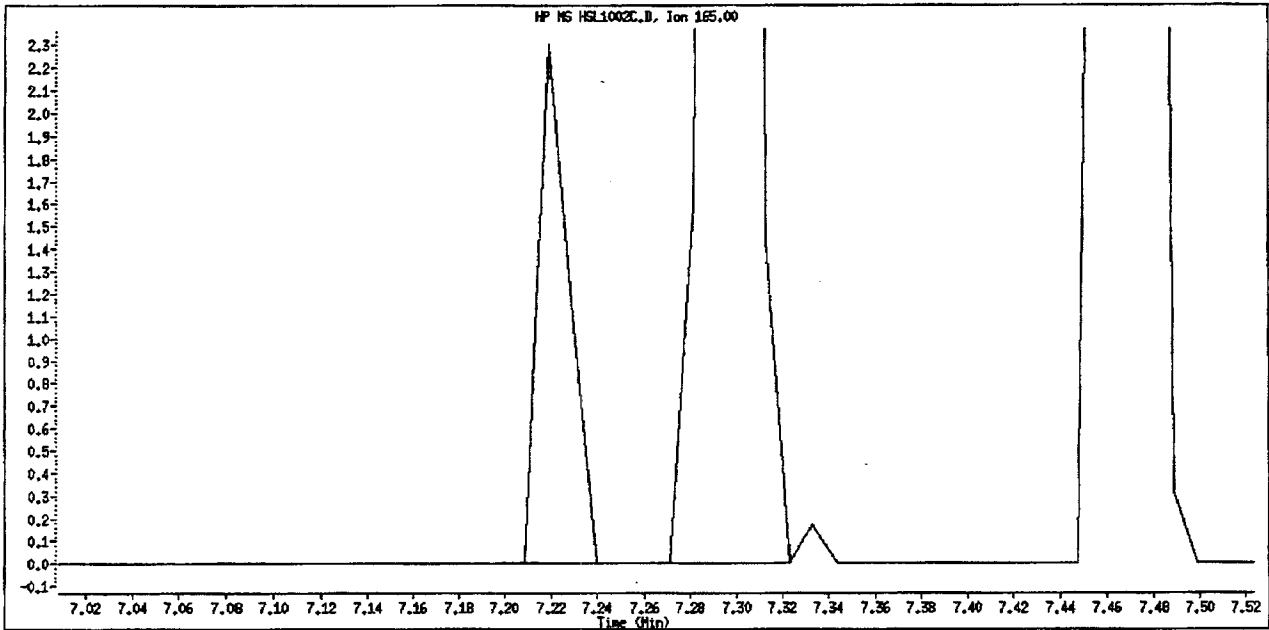
Original Integration



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



Manually Integrated By: truonk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 13:18
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

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

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (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 Naphthalena	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) Phtalate	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	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
 Lab File ID: HSL1002C.D
 Lab Smp Id: HSL 020 ug/ml CS-3
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M

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

Test Mode:
 Use Initial Calibration Level 4.

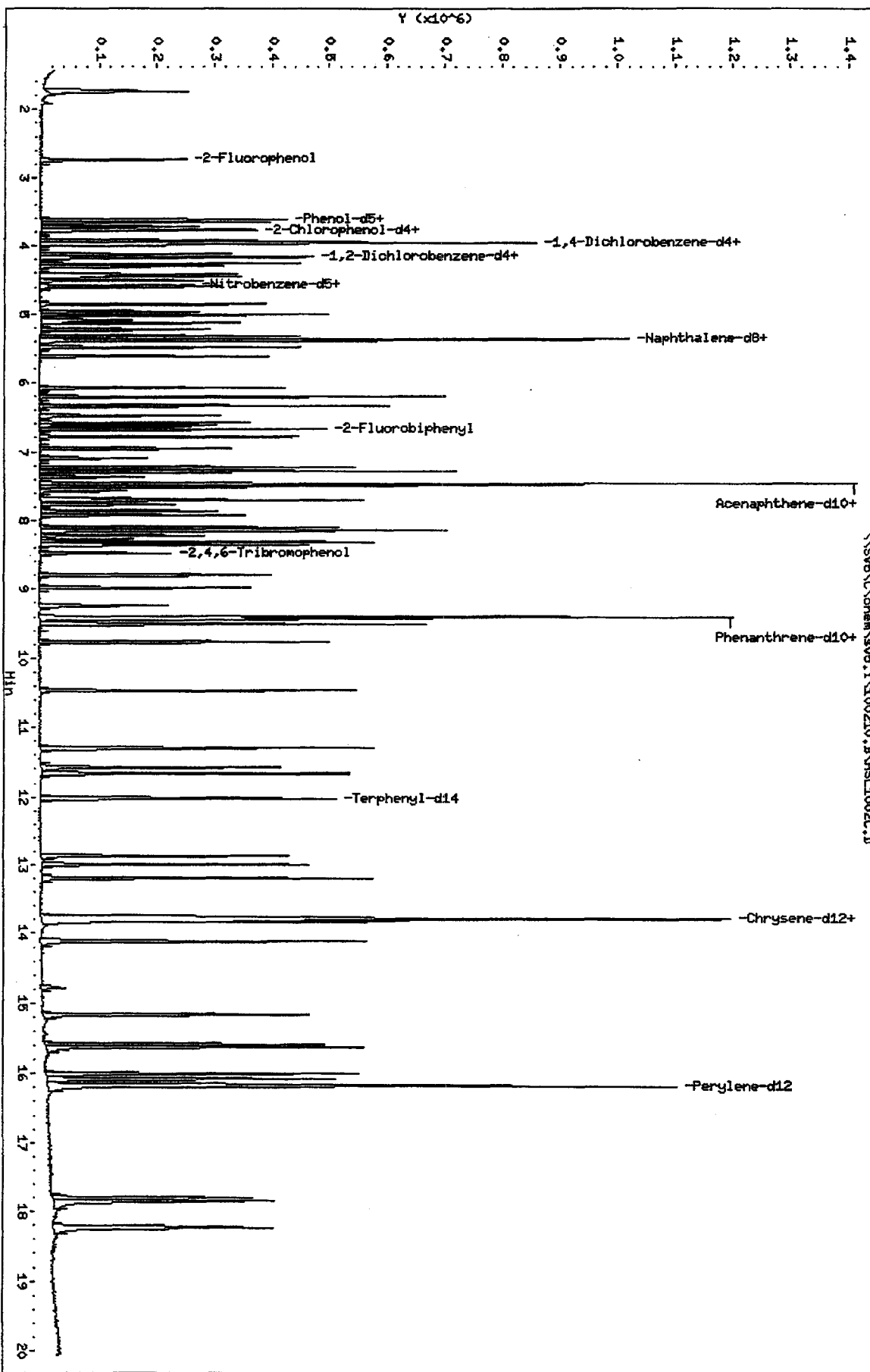
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	145926	19.00
2 Naphthalene-d8	530514	265257	1061028	625682	17.94
3 Acenaphthene-d10	282538	141269	565076	328608	16.31
4 Phenanthrene-d10	462722	231361	925444	525834	13.64
5 Chrysene-d12	435850	217925	871700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

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

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

Data File: \\SWB\C\chem\sw5.1\100210.B\HSL1002C.D
Date: 02-OCT-2010 13:18
Client ID: B270F.H
Sample Info: HSL_020 ug/ml C9-31;13;14
Column phase:

Instrument: sw5.1
Operator: KT
Column diameter: 2.00



TestAmerica West Sacramento

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (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

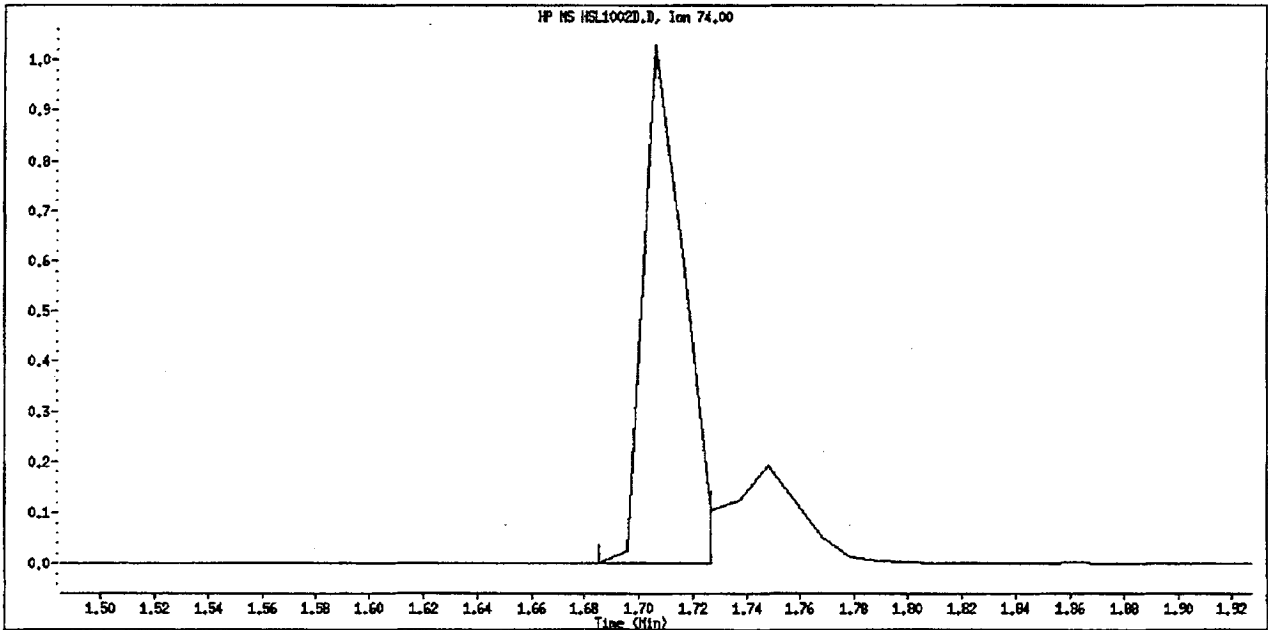
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	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-Chloroaniline	127	5.488	5.488	(1.021)	291184	50.0000	50.72
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	95592	50.0000	50.36
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	205388	50.0000	51.34
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	464646	50.0000	50.50
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	104908	50.0000	49.76
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	113001	50.0000	50.13
70 2,4,5-Trichlorophenol	196	6.628	6.628	(0.888)	128196	50.0000	52.79
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	403257	50.0000	50.72
73 2-Nitroaniline	65	6.949	6.949	(0.931)	124335	50.0000	51.59
76 Dimethylphthalate	163	7.229	7.229	(0.968)	475258	50.0000	51.91
77 Acenaphthylene	152	7.281	7.281	(0.975)	712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	110261	50.0000	51.69
80 3-Nitroaniline	138	7.447	7.447	(0.997)	141396	50.0000	53.11
81 Acenaphthene	153	7.509	7.509	(1.006)	448691	50.0000	50.90
82 2,4-Dinitrophenol	184	7.571	7.572	(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	15.007	15.007	(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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
=====	====	----	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				1107571	50.0000	50.74 (A)

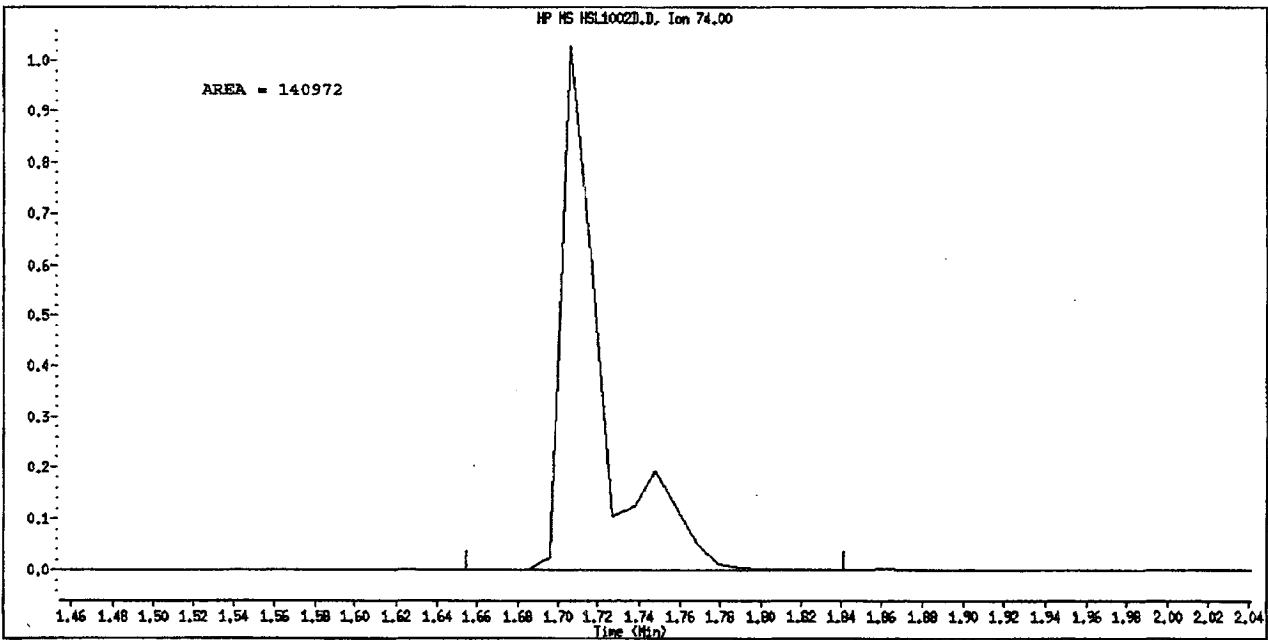
QC Flag Legend

- 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



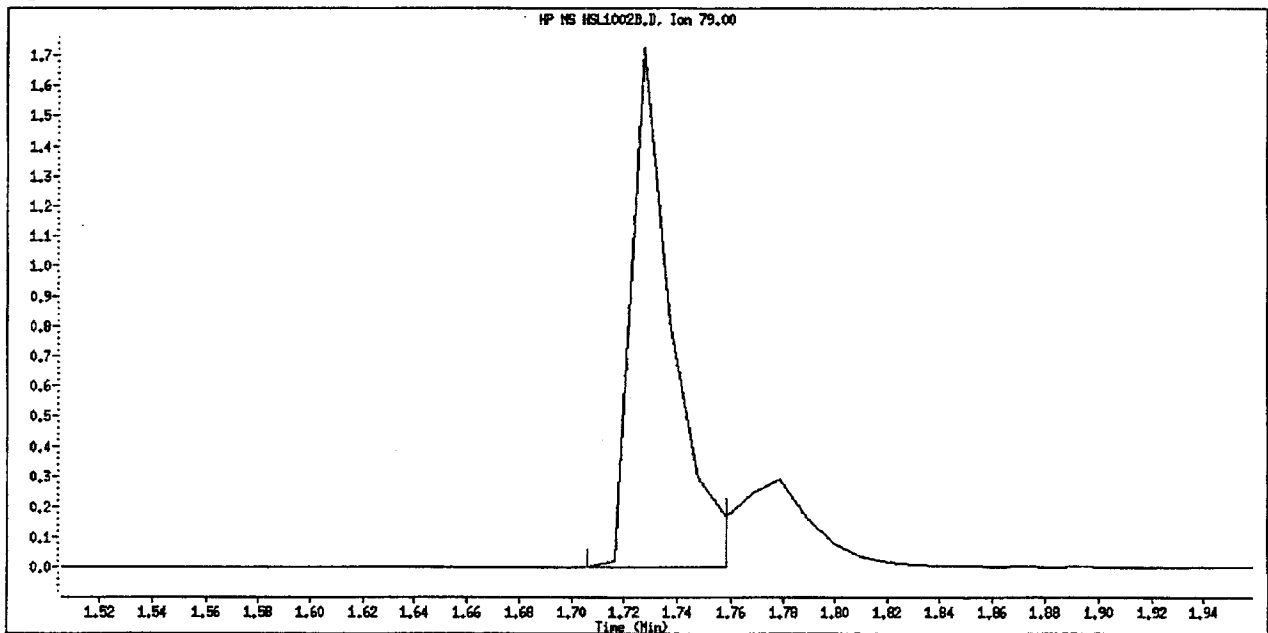
Original Integration



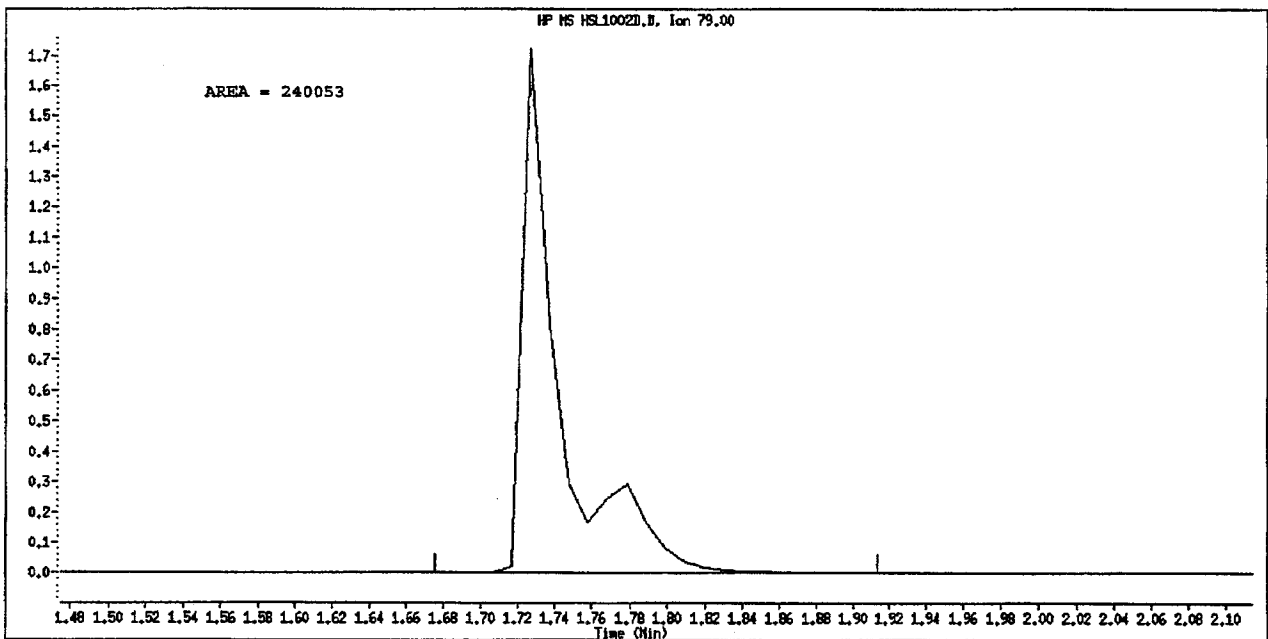
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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



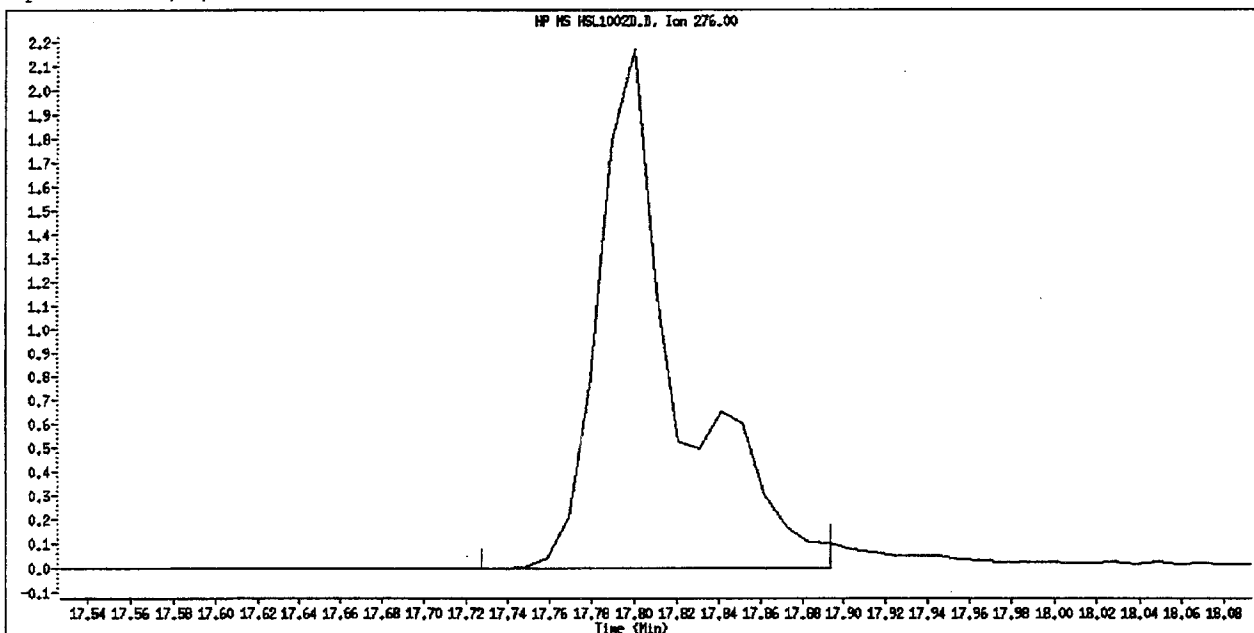
Original Integration



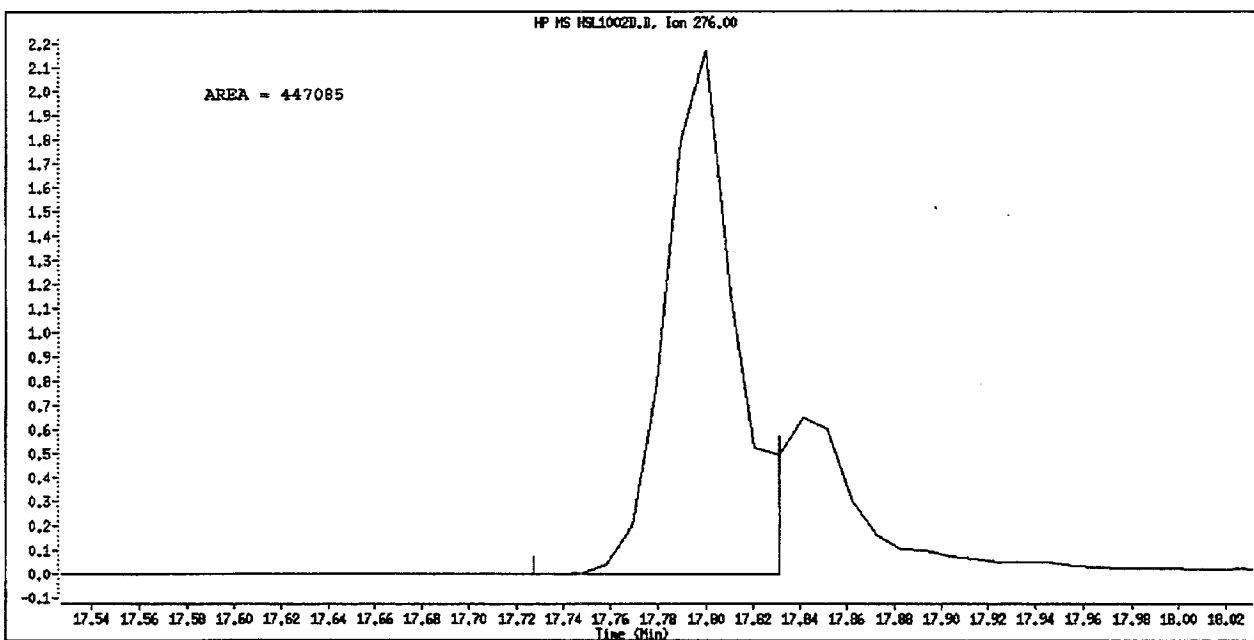
Manual Integration

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: truonk
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				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE	CAL-AMT ( NG)	( NG)
* 1 1,4-Dichlorobenzene-d4	152		3.955	3.955	(1.000)	122625	40.0000	
* 2 Naphthalene-d8	136		5.374	5.374	(1.000)	530514	40.0000	
* 3 Acenaphthene-d10	164		7.468	7.468	(1.000)	282538	40.0000	
* 4 Phenanthrene-d10	188		9.405	9.405	(1.000)	462722	40.0000	
* 5 Chrysene-d12	240		13.779	13.779	(1.000)	435850	40.0000	
* 6 Perylene-d12	264		16.162	16.162	(1.000)	422284	40.0000	
\$ 7 2-Fluorophenol	112		2.732	2.732	(0.691)	220986	50.0000	48.83
\$ 8 Phenol-d5	99		3.613	3.613	(0.914)	274382	50.0000	47.67
\$ 9 2-Chlorophenol-d4	132		3.758	3.758	(0.950)	244352	50.0000	49.80
\$ 10 1,2-Dichlorobenzene-d4	152		4.162	4.162	(1.052)	151616	50.0000	49.50
\$ 11 Nitrobenzene-d5	82		4.576	4.576	(0.852)	226162	50.0000	48.07
\$ 12 2-Fluorobiphenyl	172		6.680	6.680	(0.895)	473978	50.0000	52.38
\$ 13 2,4,6-Tribromophenol	330		8.473	8.473	(1.135)	63311	50.0000	56.75
\$ 14 Terphenyl-d14	244		12.017	12.017	(0.872)	438253	50.0000	51.56
15 N-Nitrosodimethylamine	74		1.706	1.706	(0.431)	105836	50.0000	35.43
16 Pyridine	79		1.726	1.726	(0.437)	182664	50.0000	36.70
23 Aniline	93		3.654	3.654	(0.924)	346504	50.0000	48.01
24 Phenol	94		3.623	3.623	(0.916)	311820	50.0000	50.94
26 Bis(2-chloroethyl)ether	93		3.716	3.716	(0.940)	220455	50.0000	47.40
27 2-Chlorophenol	128		3.768	3.768	(0.953)	242442	50.0000	50.05
28 1,3-Dichlorobenzene	146		3.923	3.923	(0.992)	265384	50.0000	49.58
29 1,4-Dichlorobenzene	146		3.975	3.975	(1.005)	271151	50.0000	50.11
30 Benzyl Alcohol	108		4.120	4.120	(1.042)	160914	50.0000	48.35
31 1,2-Dichlorobenzene	146		4.172	4.172	(1.055)	257606	50.0000	50.23
32 2-Methylphenol	108		4.255	4.255	(1.076)	218610	50.0000	48.31
33 2,2'-oxybis(1-Chloropropane)	45		4.297	4.297	(1.086)	349371	50.0000	40.48
34 4-Methylphenol	108		4.421	4.421	(1.118)	233354	50.0000	48.39
36 Hexachloroethane	117		4.504	4.504	(1.139)	94106	50.0000	49.29
37 N-Nitrosodimethylamine	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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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	48.58
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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
-----	-----	-----	-----	-----	-----	(NG)	(NG)	
M 162 benzo b,k Fluoranthene Totals	252					1107571	50.0000	51.00 (A)

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: sv5.i
 Lab File ID: HSL1002D.D
 Lab Smp Id: HSL 050 ug/ml CS-4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: KT
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

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

Test Mode:
 Use Initial Calibration Level 4.

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

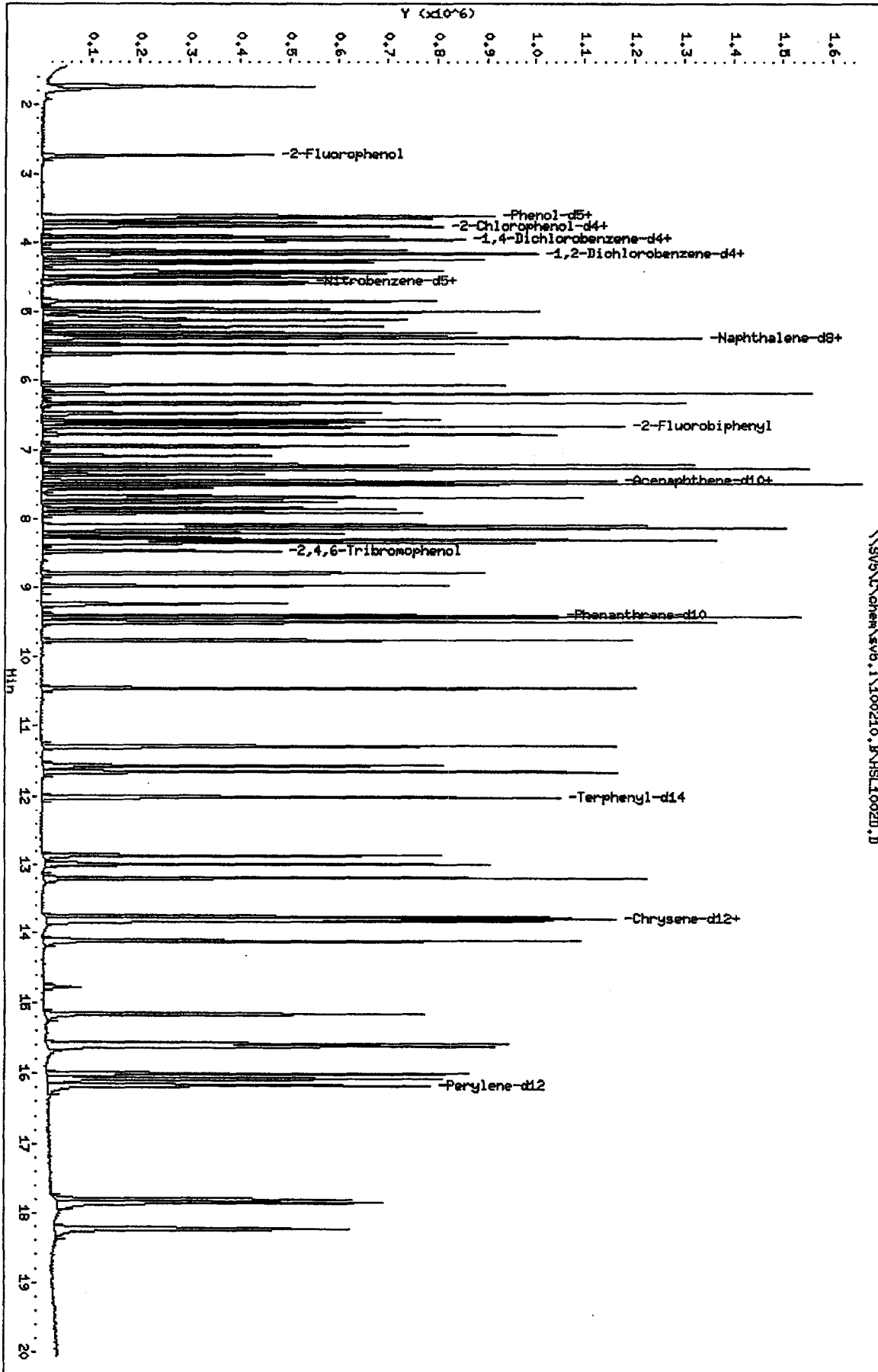
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66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

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

Data File: \\SVS\chem\sv5.1\100210.B\HSL1002D.D
Date: 02-OCT-2010 13:44
Client ID: 8270F.H
Sample Info: HSL_050 ug/ml CS-413343334
Column phase:

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

\\SVS\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	AMOUNTS				ON-COL	
			CAL-AMT	ON-COL	RELT	RESPONSE		
	MASS		RT	EXP RT	RELT	RESPONSE	(NG)	(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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
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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-Nitrosodimethylamine		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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							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 (g)
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 (g)
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
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
 Misc Info: 3;;0;1_8270STD.SUB;10MSSV0311;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.

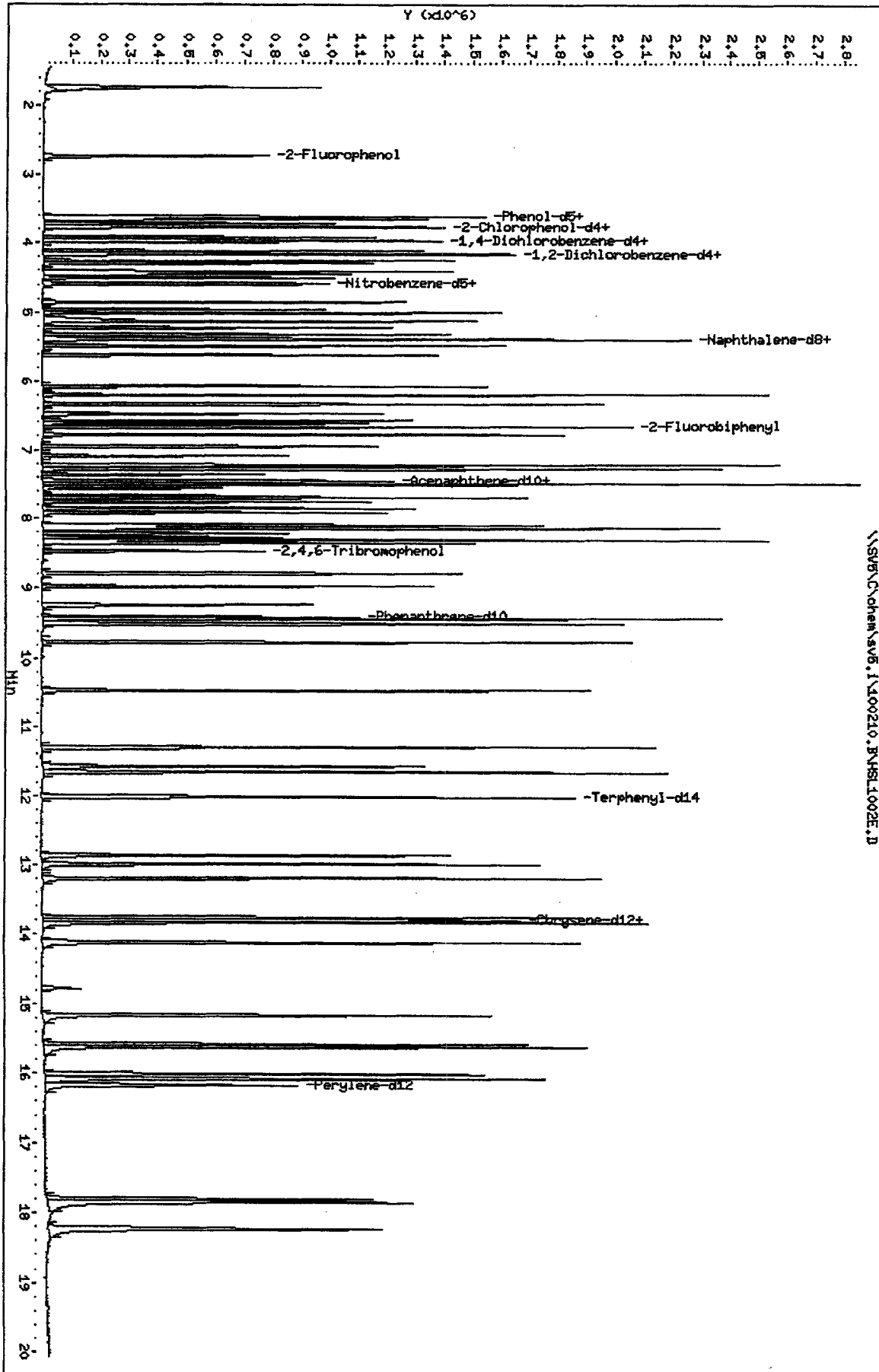
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	126989	3.56
2 Naphthalene-d8	530514	265257	1061028	553454	4.32
3 Acenaphthene-d10	282538	141269	565076	300315	6.29
4 Phenanthrene-d10	462722	231361	925444	477777	3.25
5 Chrysene-d12	435850	217925	871700	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: \\SVB\C\chem\sv5.1\100210.B\HSL1002E.D
 Date: 02-OCT-2010 14:09
 Client ID: 8270F.M
 Sample Info: HSL_080 ug/ml CS-5;1;15;1;14
 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\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 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)	137751	40.0000	(Q)
* 2 Naphthalene-d8	136	5.374	5.374	(1.000)	591665	40.0000	
* 3 Acenaphthene-d10	164	7.468	7.468	(1.000)	322596	40.0000	
* 4 Phenanthrene-d10	188	9.406	9.405	(1.000)	515607	40.0000	
* 5 Chrysene-d12	240	13.789	13.779	(1.000)	509570	40.0000	
* 6 Perylene-d12	264	16.173	16.162	(1.000)	539588	40.0000	
\$ 7 2-Fluorophenol	112	2.732	2.732	(0.691)	588028	120.000	121.1
\$ 8 Phenol-d5	99	3.613	3.613	(0.914)	759824	120.000	124.4
\$ 9 2-Chlorophenol-d4	132	3.758	3.758	(0.950)	652805	120.000	121.7
\$ 10 1,2-Dichlorobenzene-d4	152	4.162	4.162	(1.052)	407247	120.000	120.0
\$ 11 Nitrobenzene-d5	82	4.587	4.576	(0.853)	623501	120.000	124.4
\$ 12 2-Fluorobiphenyl	172	6.680	6.680	(0.895)	1255441	120.000	120.8
\$ 13 2,4,6-Tribromophenol	330	8.483	8.473	(1.136)	179055	120.000	127.7
\$ 14 Terphenyl-d14	244	12.017	12.017	(0.871)	1251844	120.000	124.7
15 N-Nitrosodimethylamine	74	1.706	1.706	(0.431)	388111	120.000	122.3 (Q)
16 Pyridine	79	1.727	1.726	(0.437)	633334	120.000	119.3 (Q)
23 Aniline	93	3.654	3.654	(0.924)	964533	120.000	124.1 (Q)
24 Phenol	94	3.623	3.623	(0.916)	851671	120.000	121.4 (Q)
26 Bis(2-chloroethyl) ether	93	3.716	3.716	(0.940)	596323	120.000	121.2
27 2-Chlorophenol	128	3.768	3.768	(0.953)	653244	120.000	121.3
28 1,3-Dichlorobenzene	146	3.924	3.923	(0.992)	712032	120.000	121.4
29 1,4-Dichlorobenzene	146	3.975	3.975	(1.005)	740915	120.000	120.8
30 Benzyl Alcohol	108	4.120	4.120	(1.042)	450249	120.000	124.4
31 1,2-Dichlorobenzene	146	4.172	4.172	(1.055)	679448	120.000	120.5
32 2-Methylphenol	108	4.255	4.255	(1.076)	603987	120.000	122.6
33 2,2'-oxybis(1-Chloropropane)	45	4.297	4.297	(1.086)	941514	120.000	120.2
34 4-Methylphenol	108	4.421	4.421	(1.118)	644202	120.000	123.1
36 Hexachloroethane	117	4.504	4.504	(1.139)	245394	120.000	117.5
37 N-Nitrosodipropylamine	70	4.452	4.442	(1.126)	428242	120.000	122.9
42 Nitrobenzene	77	4.607	4.597	(0.857)	593736	120.000	121.2
44 Isophorone	82	4.867	4.856	(0.906)	1179801	120.000	125.2
45 2-Nitrophenol	139	4.960	4.960	(0.923)	367467	120.000	126.4
46 2,4-Dimethylphenol	107	5.012	5.012	(0.933)	638328	120.000	123.6

10-3-10

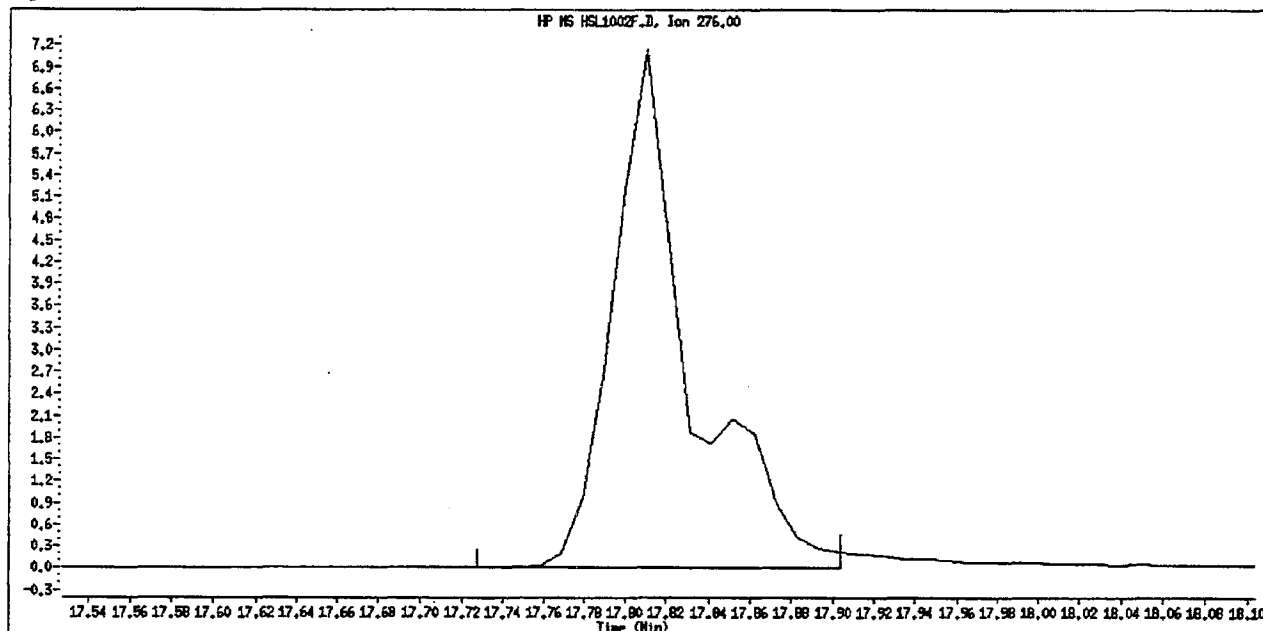
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2
50 Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3
51 1,2,4-Trichlorobenzene	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
=====	====	----	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				3411204	120.000	122.3(A)

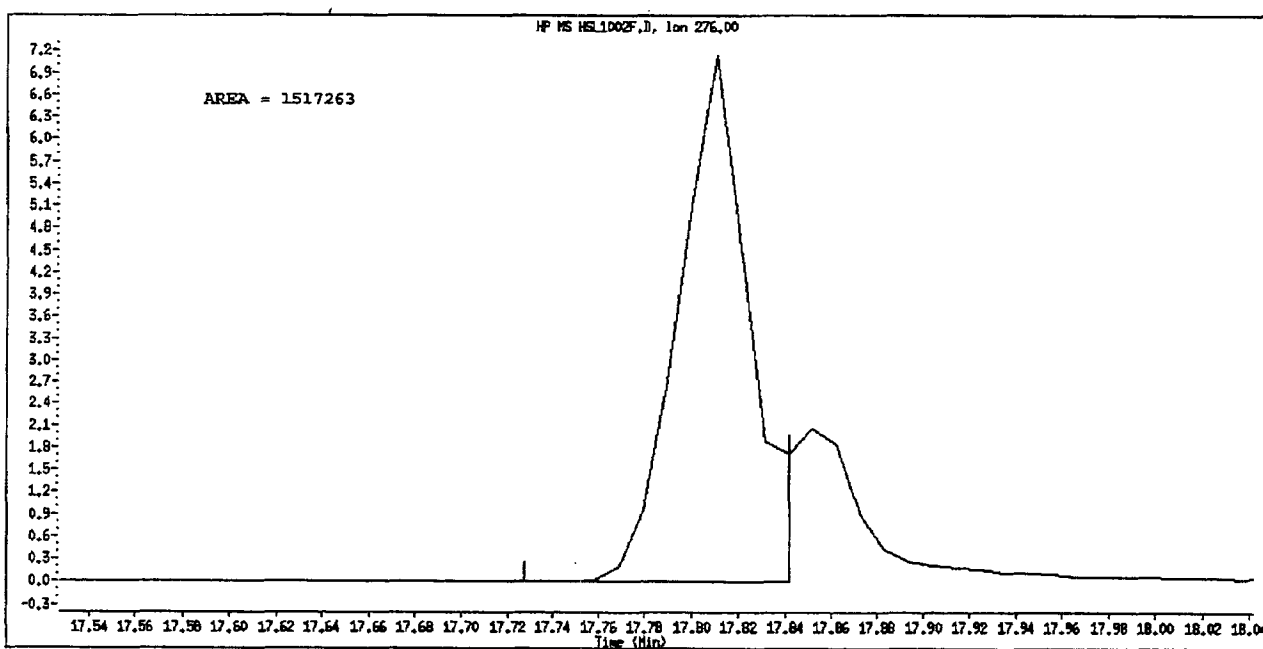
QC Flag Legend

- 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: sv5.1
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C
 Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 14:35
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4
 Misc Info : 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (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.

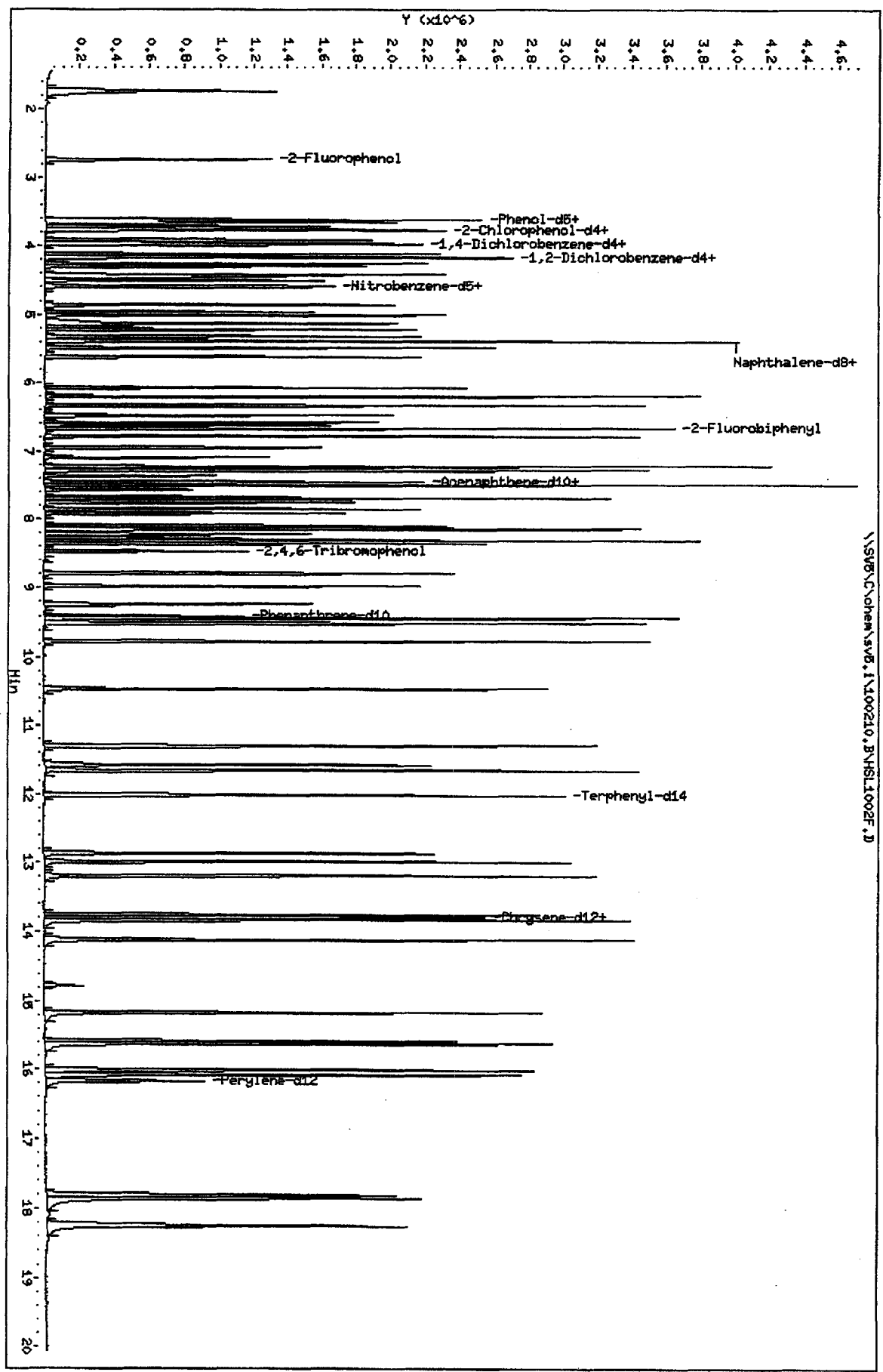
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	137751	12.34
2 Naphthalene-d8	530514	265257	1061028	591665	11.53
3 Acenaphthene-d10	282538	141269	565076	322596	14.18
4 Phenanthrene-d10	462722	231361	925444	515607	11.43
5 Chrysene-d12	435850	217925	871700	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_BNHSL1002F.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



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

10-3-10

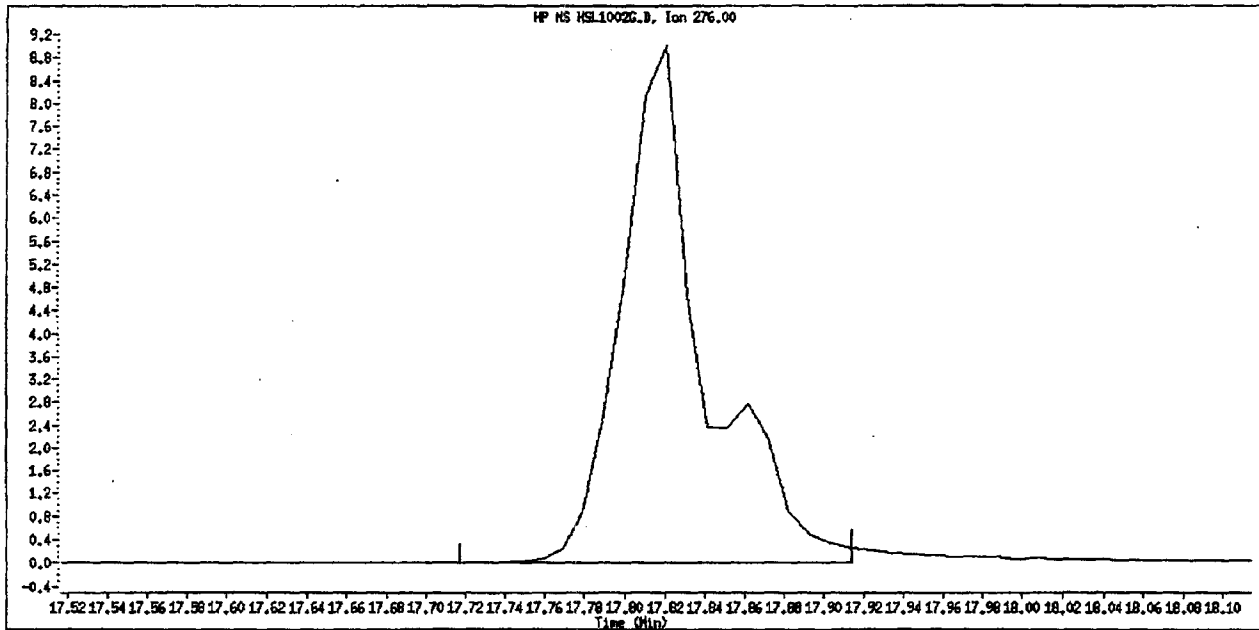
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	164.7 (A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	183.6 (A)
51 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 (Aq)
86 2,4-Dinitrotoluene	165	7.778	7.768	(1.040)	566055	160.000	174.0 (A)
91 Fluorene	166	8.141	8.131	(1.089)	1846653	160.000	164.1 (A)
92 Diethylphthalate	149	8.110	8.100	(1.085)	1813127	160.000	166.5 (A)
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.090)	757562	160.000	161.9 (A)
94 4-Nitroaniline	138	8.224	8.214	(1.100)	531151	160.000	173.2 (A)
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	324244	160.000	160.7 (A)
98 N-Nitrosodiphenylamine	169	8.328	8.317	(0.885)	1542041	187.000	191.1 (A)
100 Azobenzene	77	8.359	8.348	(0.889)	1646477	160.000	157.3
101 4-Bromophenyl-phenylether	248	8.804	8.794	(0.936)	421894	160.000	162.4 (A)
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	465305	160.000	160.3 (A)
110 Pentachlorophenol	266	9.250	9.240	(0.983)	293184	160.000	159.9
114 Phenanthrene	178	9.447	9.437	(1.004)	2695719	160.000	160.7 (A)
115 Anthracene	178	9.509	9.499	(1.011)	2703105	160.000	161.3 (A)
118 Carbazole	167	9.768	9.768	(1.039)	2479487	160.000	161.9 (A)
120 Di-n-Butylphthalate	149	10.473	10.463	(1.113)	3164666	160.000	171.8 (A)
126 Fluoranthene	202	11.312	11.302	(1.203)	2500453	160.000	166.3 (A)
127 Benzidine	184	11.582	11.571	(0.840)	1864289	160.000	170.5 (A)
128 Pyrene	202	11.664	11.665	(0.846)	2714930	160.000	161.0 (A)
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1724989	160.000	178.7 (A)
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	1401117	160.000	165.8 (A)
138 Benzo (a) Anthracene	228	13.768	13.758	(0.998)	2393908	160.000	166.6 (A)
139 Chrysene	228	13.841	13.831	(1.004)	2422526	160.000	164.8 (A)
140 3,3'-Dichlorobenzidine	252	13.810	13.799	(1.002)	915413	160.000	168.9 (A)
141 bis(2-ethylhexyl) Phthalate	149	14.110	14.110	(1.023)	1906885	160.000	163.8 (A)
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	3253965	160.000	174.8 (A)
144 Benzo (b) fluoranthene	252	15.592	15.582	(0.964)	2299398	160.000	181.2 (AQ)
145 Benzo (k) fluoranthene	252	15.634	15.623	(0.967)	2475935	160.000	152.0 (q)
147 Benzo (e) pyrene	252	16.017	16.007	(0.990)	2178628	160.000	164.7 (A)
148 Benzo (a) pyrene	252	16.089	16.079	(0.995)	2387962	160.000	166.0 (A)
151 Indeno (1,2,3-cd) pyrene	276	17.820	17.800	(1.102)	2196805	160.000	188.8 (AM)
152 Dibenzo (a,h) anthracene	278	17.862	17.841	(1.104)	2250528	160.000	173.2 (A)
153 Benzo (g,h,i) perylene	276	18.255	18.235	(1.129)	2332007	160.000	165.7 (A)

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

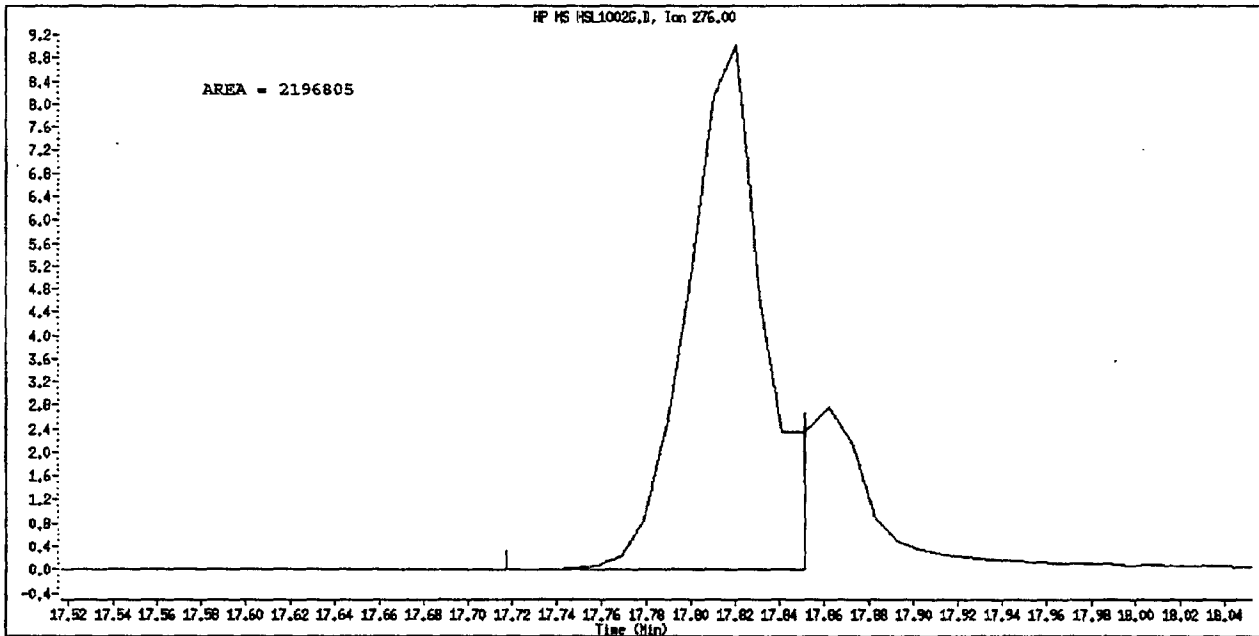
QC Flag Legend

- 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: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M
 Inj Date : 02-OCT-2010 15:00
 Operator : KT Inst ID: sv5.i
 Smp Info : HSL 160 ug/ml CS-7;1;;7;;;4
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0313;0;8270F.M
 Comment : SOP SAC-MS-0005
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1_8270STD.SUB
 Target Version: 4.14
 Processing Host: SV5

Compounds	QUANT	SIG	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		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-Nitrosodimethylamine	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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
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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	Calibration Date: 02-OCT-2010
Lab File ID: HSL1002G.D	Calibration Time: 13:44
Lab Smp Id: HSL 160 ug/ml CS-7	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;10MSSV0313;0;8270F.M	

Test Mode:
 Use Initial Calibration Level 4.

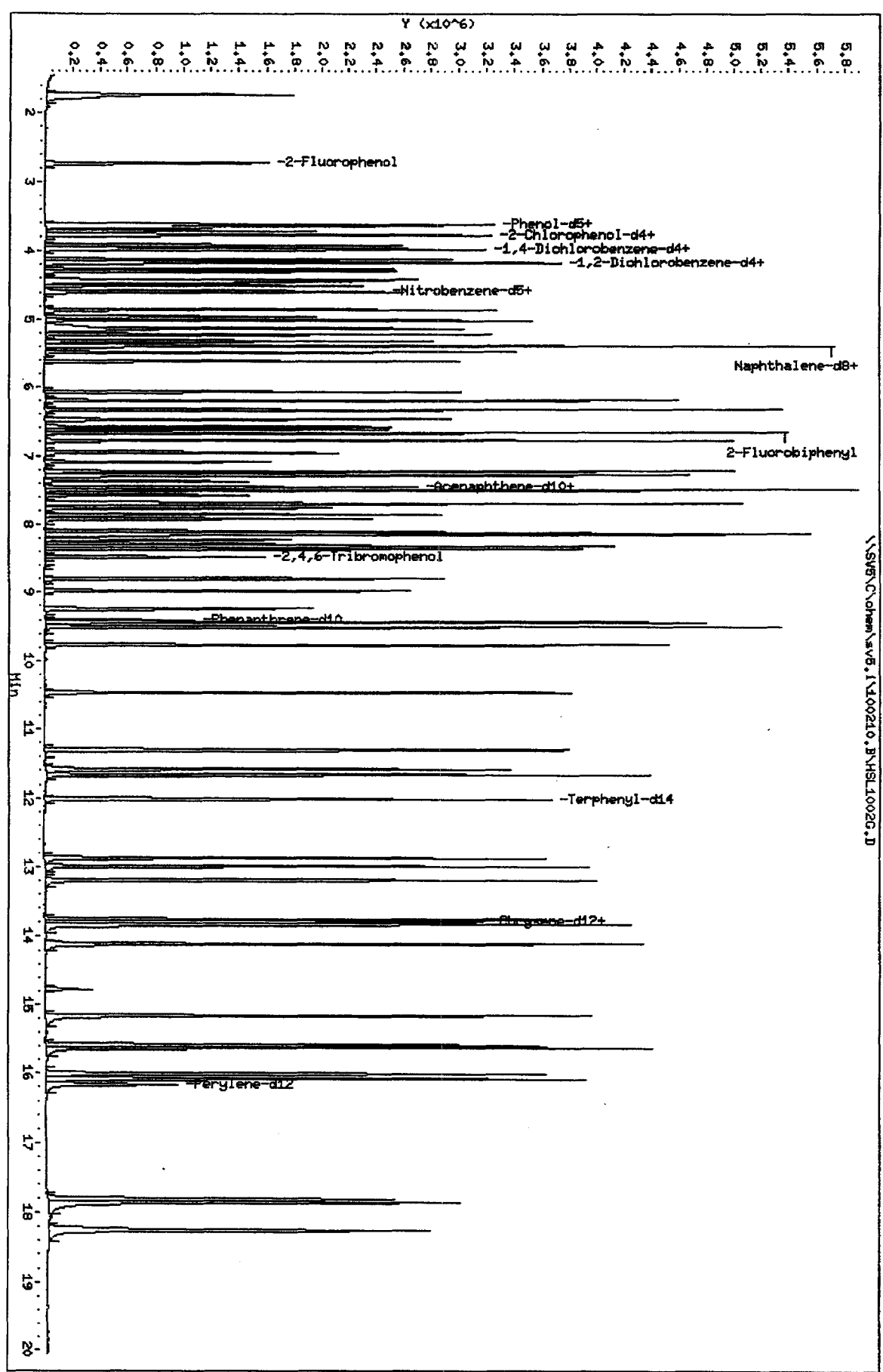
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	141009	14.99
2 Naphthalene-d8	530514	265257	1061028	622461	17.33
3 Acenaphthene-d10	282538	141269	565076	328259	16.18
4 Phenanthrene-d10	462722	231361	925444	532284	15.03
5 Chrysene-d12	435850	217925	871700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

Data File: \\SVB\C\chem\sv5.1\100210.B\HSL1002G.D
 Date: 02-OCT-2010 18:00
 Client ID: 8270F.H
 Sample Info: HSL_150 ug/ml CS-711777774
 Column phase:

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



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
 Analysis Type: Init. Cal. Times: 17:32 15:00
 Lab Sample ID: HSL 050 ug/ml ICV Quant Type: ISTD
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL 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-Nitrosodipropylamine	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

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

See RI
 See RI
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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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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	
	MASS					CAL-AMT	ON-COL
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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.

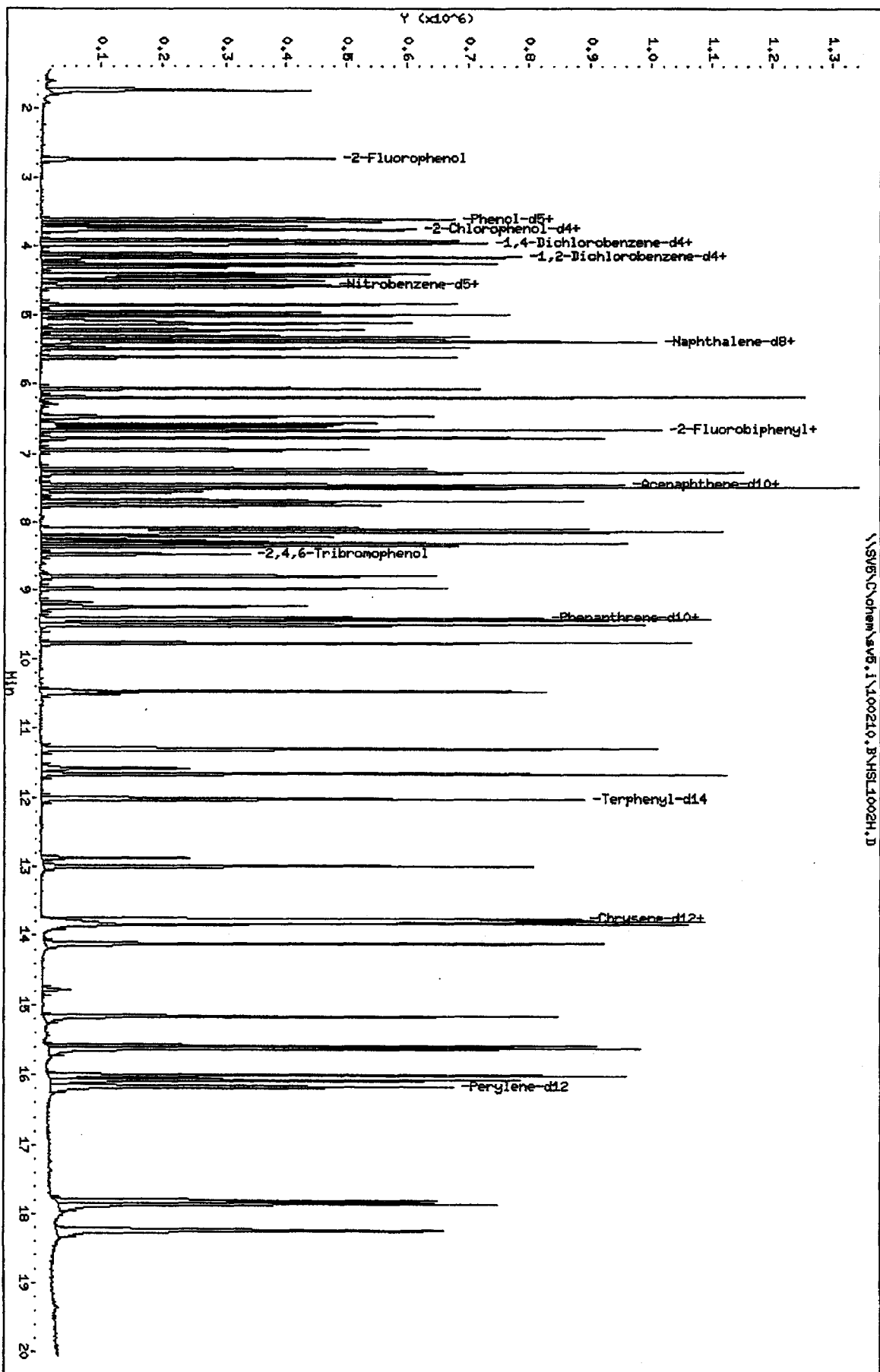
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	98364	-19.78
2 Naphthalene-d8	530514	265257	1061028	431655	-18.63
3 Acenaphthene-d10	282538	141269	565076	236662	-16.24
4 Phenanthrene-d10	462722	231361	925444	380734	-17.72
5 Chrysene-d12	435850	217925	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: \\SVB\Chem\sv5.1\100210.B\HSL1002H.D
 Date: 02-01-2010 16:11
 Client ID: B270F.H
 Sample Info: HSL_060 ug/ml ICVJ23141114
 Column phase:

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



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

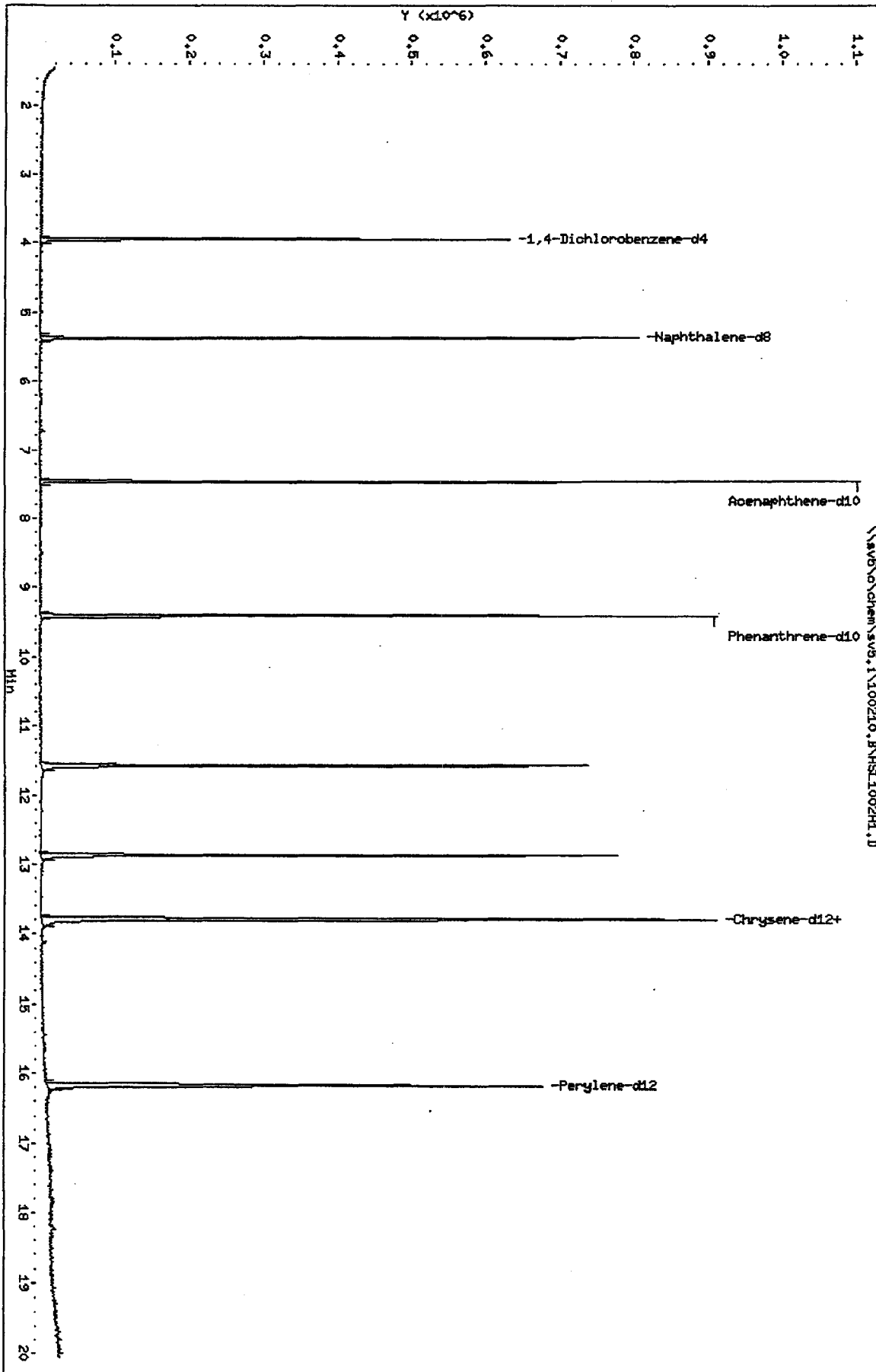
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	115503	-5.81
2 Naphthalene-d8	530514	265257	1061028	480485	-9.43
3 Acenaphthene-d10	282538	141269	565076	254190	-10.03
4 Phenanthrene-d10	462722	231361	925444	405333	-12.40
5 Chrysene-d12	435850	217925	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: \\svb6\chem\svb5\1100210.B\HSL1002H1.D
Date: 02-OCT-2010 16:36
Client ID: 8270F.M
Sample Info: Benzidines ICV Boug/mlj2j4j4j4j4
Column phase:

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



TestAmerica West Sacramento
INITIAL CALIBRATION DATA

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

Calibration File Names:

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

original RRF
10/3/10

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000							
	Level 7							
15 N-Nitrosodimethylamine	0.92899 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

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

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

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

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
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

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

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

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

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							
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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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							
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	0.62663	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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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

INITIAL CALIBRATION DATA

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 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							
\$ 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#290
 Shared QC Batch: N/A
 Shares QC With: N/A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	<u>10/27/10</u>
Inst Receipt:	

Batch: 0299370
 MS Run #:
 Prep Date: 10/26/2010
 Method: JZ TO-13
 Matrix: S AIR
 Extraction: 11 SOXHLET (NONE,Na2SO4)
 QC: 3W AMBIENT AIR TESTING
 SAC: JZ - S - 11 - 3W

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>

WS-OP-0006

Soxhlet time on: 16:30 (10/26/10) Soxhlet time off: 8:40 (10/27/10)

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G0J260000 - 370	B	L84XK1AA	10/27/2010	1.0	✓		11/29/2010
G0J260000 - 370	C	L84XK1AC	10/27/2010	1.0	✓		11/29/2010
G0J260000 - 370	L	L84XK1AD	10/27/2010	1.0	✓		11/29/2010
G0J260480 - 1		L84MH1AA	10/27/2010	1.0	✓		11/29/2010
G0J260480 - 5		L84M61AA	10/27/2010	1.0	✓		11/29/2010
G0J260480 - 8		L84NF1AA	10/28/2010	1.0	✓		11/30/2010
G0J260480 - 10		L84NR1AA	10/28/2010	1.0	✓		11/30/2010
G0J260480 - 14		L84PR1AA	10/29/2010	1.0	✓		12/1/2010
G0J260480 - 18		L84Q41AA	10/29/2010	1.0	✓		12/1/2010
G0J260480 - 19		L84Q51AA	10/30/2010	1.0	✓		12/2/2010
G0J260480 - 22		L84Q91AA	10/30/2010	1.0	✓		12/2/2010

- XAD / PUF PUF-XAD
- Filter
- Impinger

Comments/NCMs: Oil GC 10/27/10
Ab was noticed in Sample # 5 GC 10/27/10

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500ul/10ATRO125/ABN SUFF</u>	<u>4/4/11</u>	<u>ECF</u>	<u>JZ</u>	<u>10/26/10</u>
Spike Mix LCS/LCSD/MS/MS ECF 10/26/10	<u>1.0ml/10ATRO125/8270 LCS Mix</u>	<u>4/9/11</u>	<u>ECF</u>	<u>JZ</u>	<u>10/26/10</u>
Pre-Spike Standard All Samples MB only ECF 10/26/10	<u>250ul/10ATRO125/1,2-DCB-d4</u>	<u>4/19/11</u>	<u>ECF</u>	<u>JZ</u>	<u>10/26/10</u>
Internal Standard All Samples	<u>250ul 10USSV0081</u>	<u>4/8/11</u>	<u>Y</u>	<u>W</u>	<u>10/28/10</u>
Soxhlet Extraction Analyst/Date	<u>ECF 10/26/10</u>	Concentration Analyst/Date	<u>ECF 10/27/10</u>	KD Analyst/Date	<u>ECF 10/27/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>85°C</u>	Review Analyst/Date	

Preparation Data Review Checklist

Prep Batch(es) 0299370

Test: T0-13

Prep Date: 10/26/10

Holding Times: 10/27/10 - 10/30/10 NCM: Y N ⁹⁰⁴ 10/27/10

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: JZ

Date: 10/26/10

2nd Level Reviewer: mar

Date: 10/28/10

Comments:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/27/10
Time: 10:07:46

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

- Expanded Deliverable
- COC Completed
- Bench Sheet Copied
- Package Submitted to AnalyticalGroup
- Bench Sheet Copied per COC

Extractionist: 403162 erica X. Larson

Concentrationist: 403162 erica X. Larson

 * OC BATCH: 0299370 *

PREP DATE: 10/26/10 15:00
 COMP DATE: 10/27/10 14:00

Reviewer/Date: LARSON / 10/27/10

Semi-volatile Organics by GCMS in Air (TO-13A)
SOXHLET (NONE, Na2S04)

EXTR EXPR	ANL DUE	LOT# WORK	MSR# ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/ FIN WT/VOL	INIT ADJT	PH'S ADJ2	EXTRACTION VOL	EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
10/27/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/27/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/28/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/28/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/29/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/29/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													
10/30/10	11/02/10	G0J260480	L84MR-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS:													

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/27/10
Time: 10:07:46

* QC BATCH: 0299370 *
* *****

PREP DATE: 10/26/10 15:00
COMP DATE: 10/27/10 14:00

EXTR EXPR	ANL DUE	LOT#, MSRUN# / WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT ADJT	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD / SURROGATE ID
10/30/10	11/02/10	G0J260480-022 L84Q9-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA NA	NA	DCM	700.0	.0	500UL/10AIR0125/ABN SURR
COMMENTS: G0J260000-370												
10/27/10	0/00/00	G0J260000-370 L84KK-1-AAB		11	JZ AIR	1.0sample 1.00mL	NA NA	NA	DCM	700.0	.0	250UL/10AIR0128/1,2-DCB 500UL/10AIR0125/ABN SURR
COMMENTS: G0J260000-370												
10/27/10	0/00/00	G0J260000-370 L84KK-1-ACC		11	JZ AIR	1.0sample 1.00mL	NA NA	NA	DCM	700.0	.0	1.0ML/10AIR0126/8270 MIX 500UL/10AIR0125/ABN SURR
COMMENTS: G0J260000-370												
10/27/10	0/00/00	G0J260000-370 L84KK-1-ADL		R	11	JZ AIR	1.0sample 1.00mL	NA NA	DCM	700.0	.0	1.0ML/10AIR0126/8270 MIX 500UL/10AIR0125/ABN SURR
COMMENTS: G0J260000-370												

DCM LOT:J25S01

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

NUMBER OF WORK ORDERS IN BATCH: 11

TestAmerica West Sacramento
GC/MS Data Review Checklist

Batch: 0299370

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

NCM: Q N LA ED 605260480

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.	/	/	
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.	/	/	
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.	/	/	
1. Are all nonconformances documented appropriately?	/	/	
2. Quantims entry correct, including dates and times.	/	/	
3. Appropriate footnotes used.	/	/	

Analyst: [Signature]

Date: 11/9/10

2nd Level Reviewer: [Signature]

Date: 11/9/10

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

Run text: L84XJ-1-AA Sample text: L84XJ-1-AA :G0J260480-3MB
 Run #8 Filename: 02NO10A1D5 S: 29 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 10:35:26 Processed: 3-NOV-10 16:16:25
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

05
11-5-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	39245600	0.79	y	17:54	-	45.90	-	- n
13C-2,3,7,8-TCDF	62000600	0.78	y	17:24	1.57	4013.49	0.46	100.3, n
2,3,7,8-TCDF	16557	0.52	n	17:24	0.88	1.22	1.27	- n
Total TCDF	197669	1.85	n	14:20	0.88	14.53	1.27 2.06 ✓	- n
13C-2,3,7,8-TCDD	32353000	0.81	y	18:06	0.99	3333.10	1.89	83.3, n
2,3,7,8-TCDD	15557	1.17	n	18:11	0.94	2.05	2.47	- n
Total TCDD	277449	1.28	n	14:28	0.94	36.49	2.47 3.26 ✓	- n
37Cl-2,3,7,8-TCDD	16097800	1.00	y	18:08	1.18	1690.94	1.42	105.7 n
13C-1,2,3,7,8-PeCDF	40401100	1.73	y	22:27	1.15	3566.98	0.90	89.2, n
1,2,3,7,8-PeCDF	*	* n	NotFnd	1.03	*	*	5.32	- n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.95	*	*	5.78	- n
Total F2 PeCDF	9141	0.34	n	21:11	0.99	0.92	5.54	- n
Total F1 PeCDF	162006	1.94	n	14:17	0.99	16.23	1.73 5.78 ✓	- n
13C-1,2,3,7,8-PeCDD	20016800	1.63	y	24:30	0.67	3058.66	4.69	76.5, n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	*	*	5.51	- n
Total PeCDD	138466	0.46	n	20:47	0.96	28.79	5.51 5.51 ✓	- n
13C-1,2,3,7,8,9-HxCDD	32509800	1.39	y	30:49	-	48.36	-	- n
13C-1,2,3,4,7,8-HxCDF	38809300	0.50	y	29:33	1.15	4158.51	9.75	104.0, n
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.22	*	*	2.12	- n
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.41	*	*	1.84	- n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.23	*	*	2.10	- n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.08	*	*	2.39	- n
Total HxCDF	7872914	0.69	n	28:27	1.24	6.57	2.09 2.39 ✓	- n
13C-1,2,3,6,7,8-HxCDD	29607300	1.29	y	30:32	0.96	3799.21	0.79	95.0, n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.89	*	*	5.75	- n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.05	*	*	4.86	- n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.00	*	*	5.07	- n
Total HxCDD	27116	0.93	n	30:18	0.98	3.74	5.20 5.75 ✓	- n
13C-1,2,3,4,6,7,8-HpCDF	27019170	0.41	y	32:27	0.98	3377.40	28.98	84.4, n
1,2,3,4,6,7,8-HpCDF	18691	0.91	y	32:25	1.33	2.08	4.51	- n
1,2,3,4,7,8,9-HpCDF	16122	1.47	n	33:40	1.12	2.13	5.37	- n
Total HpCDF	34812	0.91	y	32:25	1.23	4.21	4.90 5.37 ✓	- n
13C-1,2,3,4,6,7,8-HpCDD	20169900	1.11	y	33:19	0.82	3010.28	4.07	75.3, n
1,2,3,4,6,7,8-HpCDD	33120	1.09	y	33:22	1.05	5.25 6.27 ✓	4.25	- n
Total HpCDD	86823	1.53	n	32:25	1.05	16.43	4.25 6.27 ✓	- n
13C-OCDD	22028100	0.94	y	35:56	0.54	5002.37	4.18	62.5, n
OCDF	*	* n	NotFnd	1.58	*	*	10.41	- n
OCDD	14947	1.13	n	35:54	1.13	4.79	7.01	- n

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:14
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 7.27 of which 0.61 named and 6.66 unnamed
 Conc: 14.53 of which 1.22 named and 13.32 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:20	1.85 n	0.81	11580 6253	4.8 2.6	y	n
	2	14:28	0.76 y	0.79	4607 6090	1.3 3.7	n	n
	3	14:56	0.56 n	1.18	6997 12434	1.4 4.5	n	n
	4	15:20	0.56 n	0.92	5448 9690	1.4 4.4	n	n
	5	15:40	1.05 n	0.71	5741 5450	2.4 2.7	n	n
	6	16:15	1.24 n	1.78	16977 13653	7.0 4.4	y	n
	7	17:12	1.63 n	0.86	10728 6588	3.9 3.5	y	n
2,3,7,8-TCDF	8	17:24	0.52 n	1.22	7203 13886	4.1 4.6	y	n
	9	17:38	0.48 n	1.33	7895 16594	2.8 9.5	n	n
	10	18:05	0.45 n	0.75	4443 9882	1.8 3.9	n	n
	11	18:22	0.22 n	0.57	3379 15607	1.3 6.6	n	n
	12	18:56	2.79 n	0.41	8769 3139	3.5 2.1	y	n
	13	19:18	0.51 n	2.06	12190 23737	4.1 9.8	y	n
	14	19:36	0.59 n	1.14	6770 11456	1.6 6.0	n	n

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:20
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 18.24 of which 1.02 named and 17.22 unnamed
 Conc: 36.49 of which 2.05 named and 34.44 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:28	1.28 n	2.10	11537 9038	5.1 3.3	y	n
	2	14:42	1.35 n	1.51	8763 6495	3.9 2.6	y	n
	3	15:03	1.07 n	2.98	13661 12790	5.1 3.2	y	n
	4	15:10	0.47 n	1.83	6044 12790	2.6 3.2	n	n
	5	15:27	0.56 n	1.88	6216 11005	2.6 4.3	n	n
	6	15:55	2.02 n	1.58	13707 6782	4.3 2.5	y	n
	7	16:41	0.37 n	1.13	3728 10208	1.7 4.3	n	n
	8	17:13	0.75 y	3.26	10664 14138	3.4 4.0	y	n
	9	17:26	1.51 n	1.63	10572 7023	2.3 2.7	n	n
	10	17:31	0.63 n	1.33	4403 7023	1.8 2.7	n	n
	11	17:57	0.34 n	1.79	5928 17319	2.7 6.8	n	n
	12	18:03	0.50 n	1.32	4366 8789	1.9 3.4	n	n
2,3,7,8-TCDD	13	18:11	1.17 n	2.05	10299 8789	3.1 3.4	y	n
	14	18:21	0.49 n	3.18	10523 21647	3.3 5.5	y	n
	15	18:33	4.10 n	0.57	10088 2461	4.4 1.0	y	n
	16	18:50	0.33 n	1.38	4560	1.6	n	n

					13909	4.3	y	n
17	19:20	2.30	n	0.83	8210	2.3	n	n
					3563	1.8	n	n
18	19:28	1.48	n	1.99	12604	5.8	y	n
					8541	2.0	n	n
19	19:53	1.25	n	2.16	11662	4.4	y	n
					9299	4.2	y	n
20	20:09	1.15	n	1.98	9827	3.1	y	n
					8517	4.0	y	n

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Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:1
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

Amount: 0.46 of which * named and 0.46 unnamed
 Conc: 0.92 of which * named and 0.92 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:11	0.34	n 0.92	5556	1.5	n	n
					16384	2.4	n	n

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total F1 PeCDF

F:1 Mass: 339.860 341.857 Mod? no #Hom:15

Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 8.12 of which * named and 8.12 unnamed
 Conc: 16.23 of which * named and 16.23 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:17	1.94 n	1.83	13930 7163	10.1 2.7	y n	n n
	2	15:01	0.31 n	0.43	2596 8434	2.2 3.1	n y	n n
	3	15:25	0.43 n	1.30	7888 18383	8.0 6.9	y y	n n
	4	16:25	0.25 n	1.13	6884 27488	6.0 5.1	y y	n n
	5	16:55	1.06 n	2.02	12241 11538	6.6 3.5	y y	n n
	6	17:28	0.50 n	0.43	2581 5176	2.3 2.5	n n	n n
	7	17:34	0.27 n	0.23	1405 5176	1.1 2.5	n n	n n
	8	17:57	0.92 n	2.07	12583 13701	10.4 4.1	y y	n n
	9	18:36	1.68 y	1.50	9412 5599	7.9 2.0	y n	n n
	10	18:56	0.37 n	0.33	2029 5538	2.1 1.5	n n	n n
	11	19:15	0.53 n	0.76	4600 8717	4.2 3.7	y y	n n
	12	19:56	0.20 n	0.90	5452 27378	3.4 11.2	y y	n n
	13	20:09	2.28 n	1.56	13882 6090	13.4 2.2	y n	n n
	14	20:14	0.34 n	0.34	2053 6090	2.1 2.2	n n	n n
	15	20:21	2.26 n	1.40	12377 5481	9.3 2.1	y n	n n

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:14
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 14.40 of which * named and 14.40 unnamed
 Conc: 28.79 of which * named and 28.79 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:47	0.46	n	2.25	6564	2.2	n n
						14133	9.4	y n
	2	20:57	2.47	n	1.77	8241	2.4	n n
						3342	3.4	y n
	3	21:04	2.87	n	1.77	9598	2.2	n n
						3342	3.4	y n
	4	21:51	0.88	n	1.86	5448	1.8	n n
						6209	3.3	y n
	5	22:01	1.30	n	2.28	6669	2.3	n n
						5137	3.3	y n
	6	23:32	1.25	n	1.36	3978	1.2	n n
						3189	1.8	n n
	7	23:42	0.97	n	1.32	3845	1.2	n n
						3975	3.8	y n
	8	24:04	5.62	n	2.22	23575	4.3	y n
						4192	2.5	n n
	9	24:15	2.82	n	1.46	7753	2.3	n n
						2750	2.1	n n
	10	24:50	5.53	n	1.50	15608	3.2	y n
						2824	2.9	n n
	11	25:06	10.74	n	0.63	12738	3.7	y n
						1186	1.3	n n
	12	25:27	0.96	n	5.05	14776	3.2	y n
						15433	13.3	y n
	13	26:05	2.23	n	4.35	18261	5.3	y n
						8201	5.6	y n
	14	26:56	0.38	n	0.97	2839	1.0	n n
						7432	4.7	y n

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:8
Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 3.28 of which * named and 3.28 unnamed
Conc: 6.57 of which * named and 6.57 unnamed

Table with 9 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >?, Mod?. Contains 8 rows of peak data.

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:1
Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1.87 of which * named and 1.87 unnamed
Conc: 3.74 of which * named and 3.74 unnamed

Table with 9 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >?, Mod?. Contains 1 row of peak data.

Run Text: L84XJ-1-AA

Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:2
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 2.11 of which 2.11 named and * unnamed
 Conc: 4.21 of which 4.21 named and * unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:25	0.91	y	2.08	8907	1.8	n n
						9783	2.5	n n
1,2,3,4,7,8,9-HpCDF	2	33:40	1.47	n	2.13	11591	2.0	n n
						7903	1.1	n n

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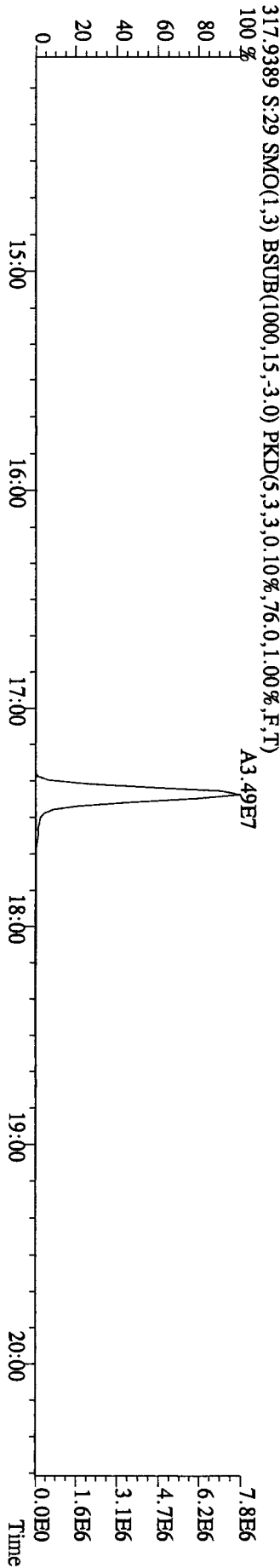
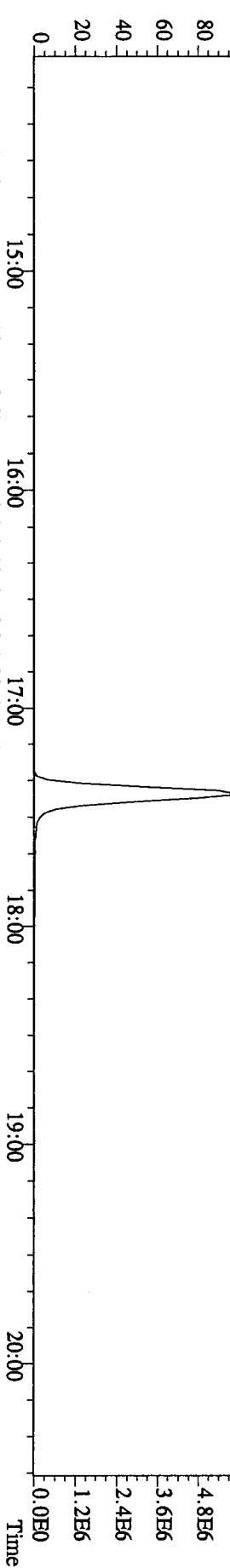
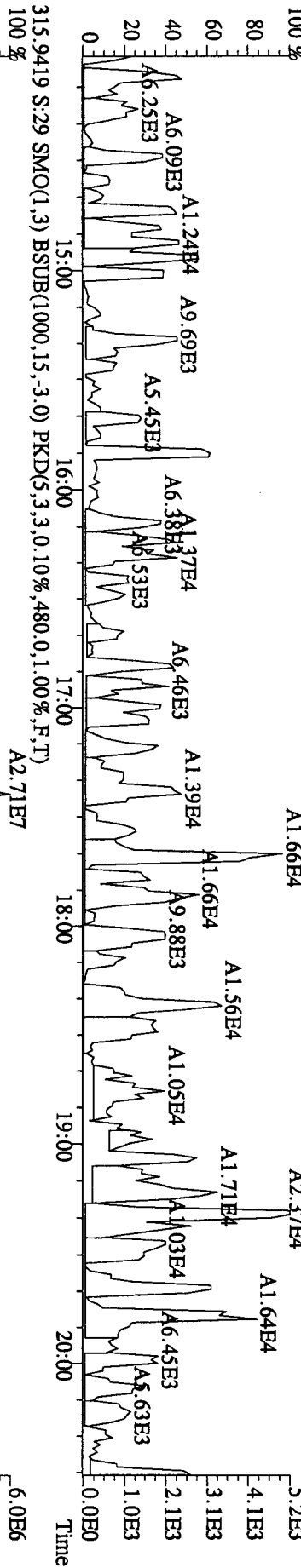
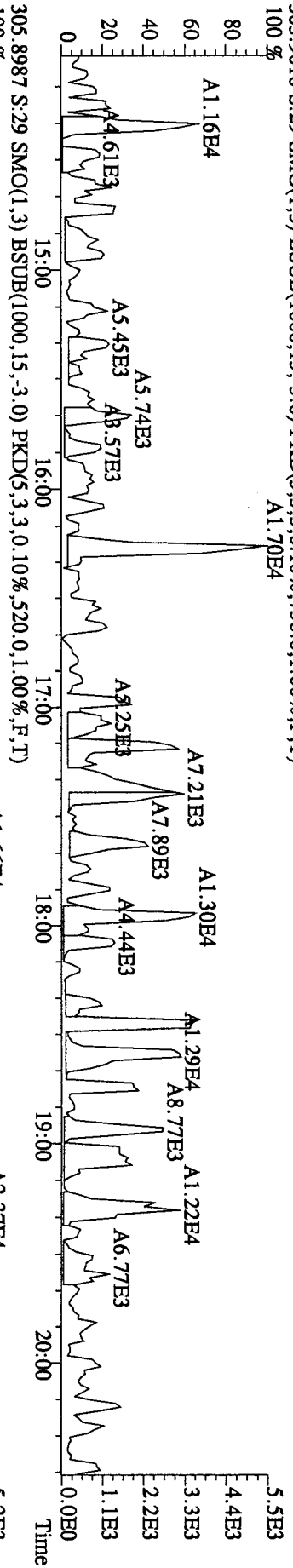
Run Text: L84XJ-1-AA Sample text: L84XJ-1-AA :G0J260480-3MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7
 Run: 8 File: 02NO10A1D5 S:29 Acq:3-NOV-10 10:35:26
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

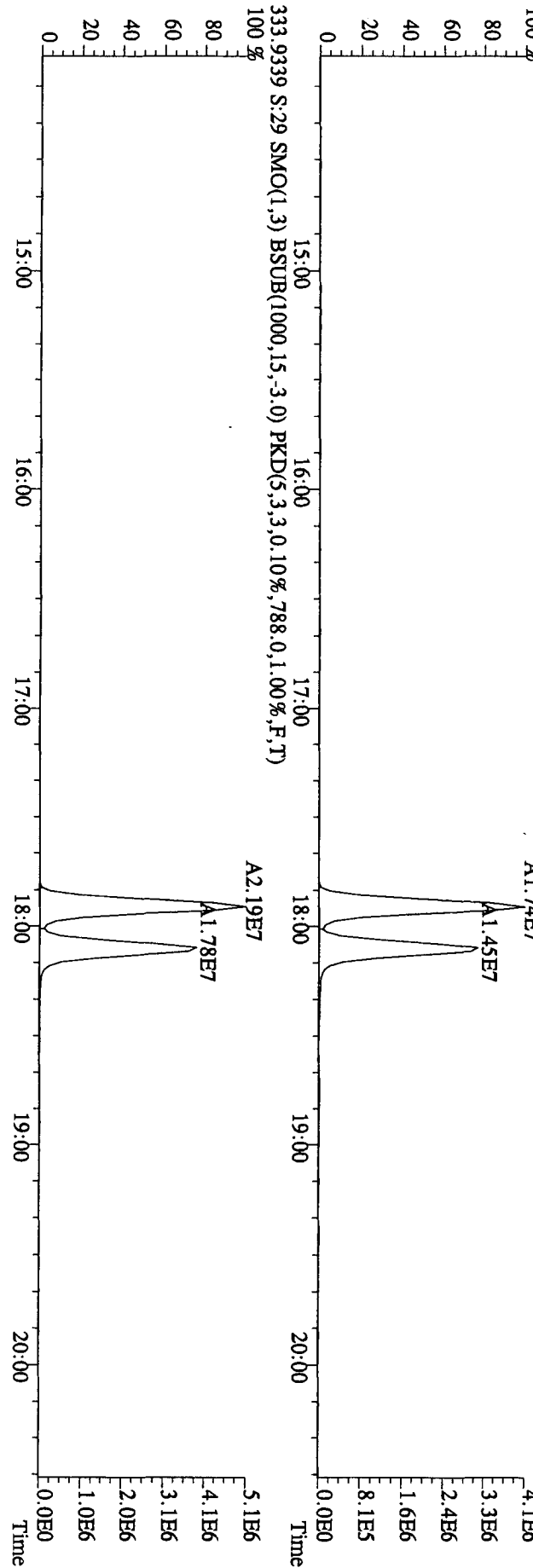
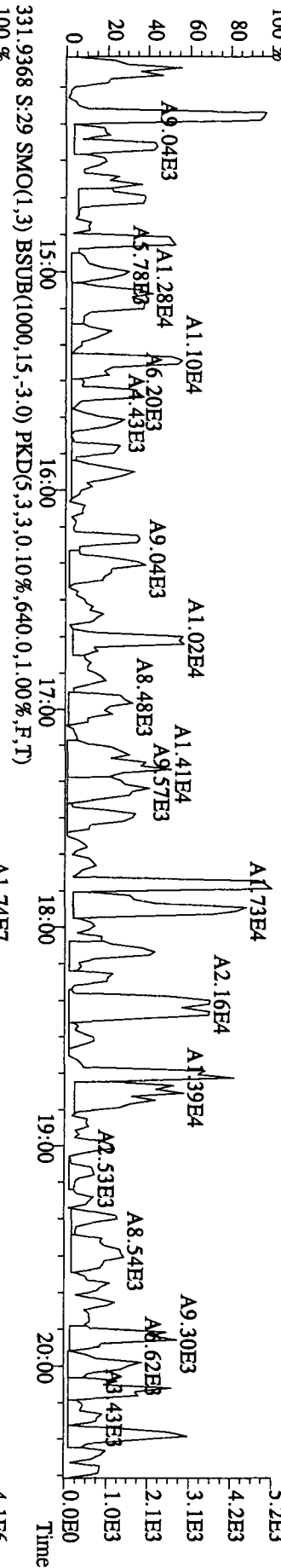
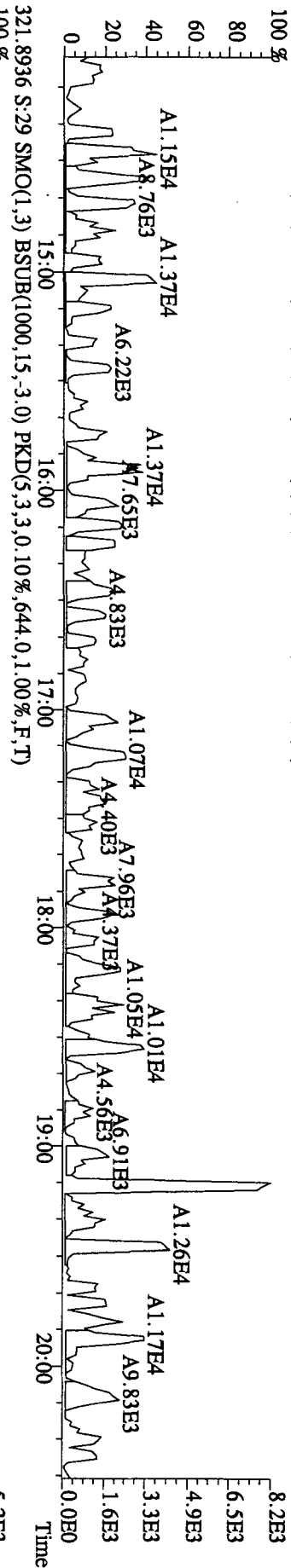
Amount: 8.21 of which 3.13 named and 5.08 unnamed
 Conc: 16.43 of which 6.27 named and 10.16 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:25	1.53	n	3.90	15464	3.8	y n
						10100	6.3	y n
	2	32:44	4.35	n	0.88	9955	2.2	n n
						2290	1.9	n n
	3	32:50	0.55	n	1.27	3429	1.0	n n
						6274	3.5	y n
1,2,3,4,6,7,8-HpCDD	4	33:22	1.09	y	6.27	17258	3.8	y n
						15862	6.6	y n
	5	34:03	1.93	n	0.99	4948	1.4	n n
						2564	1.6	n n
	6	34:39	1.40	n	2.13	7710	1.3	n n
						5506	2.8	n n
	7	34:51	2.63	n	0.99	6749	1.6	n n
						2567	1.6	n n

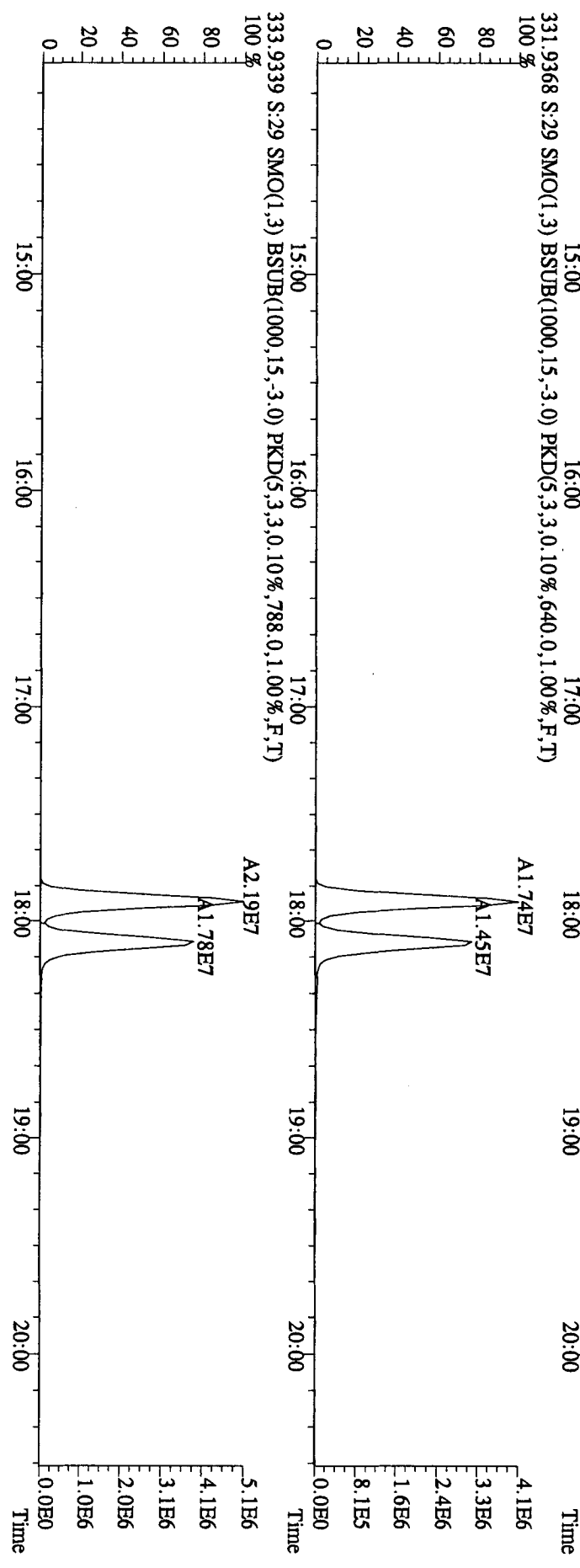
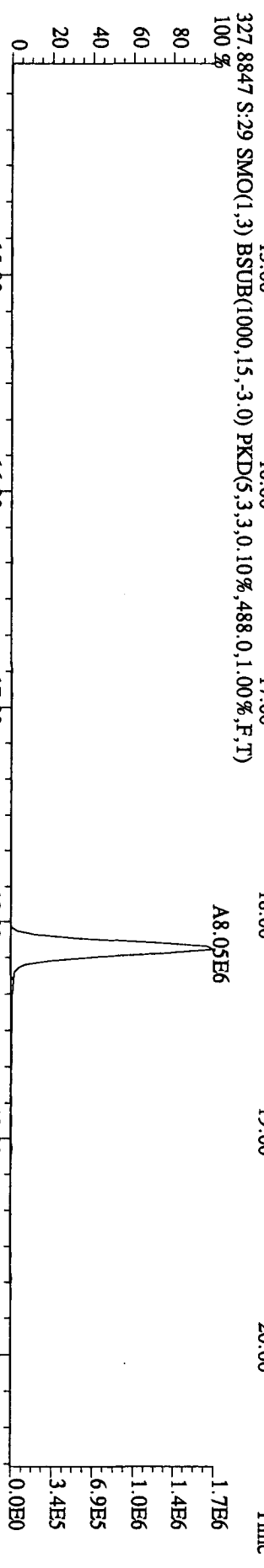
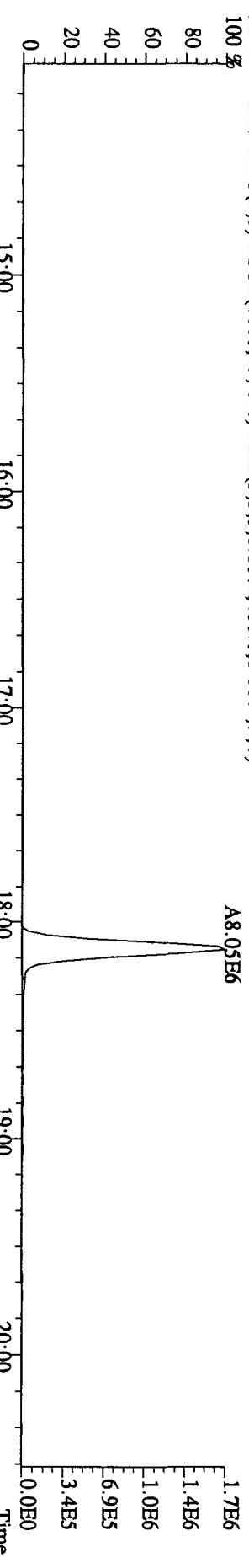
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 Sample#29 Text:1.84XI-1-AA :G01260480-3MB Exp:DIOXINRES
 303.9016 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,756.0,1.00%,F,T)
 100 % A1.70E4



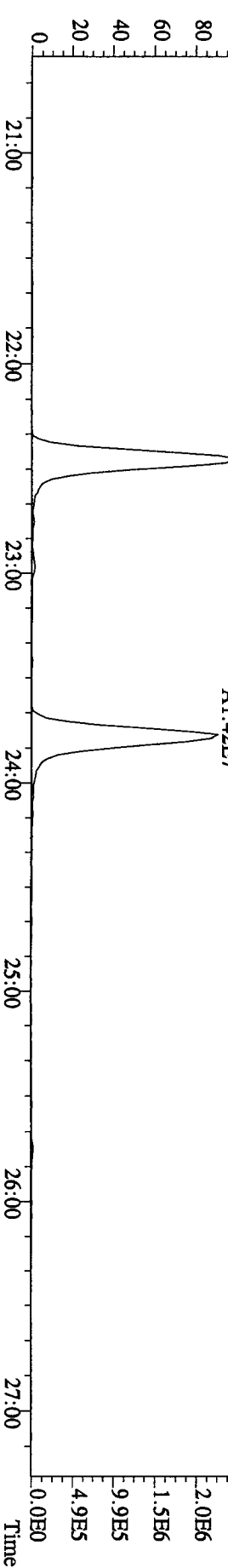
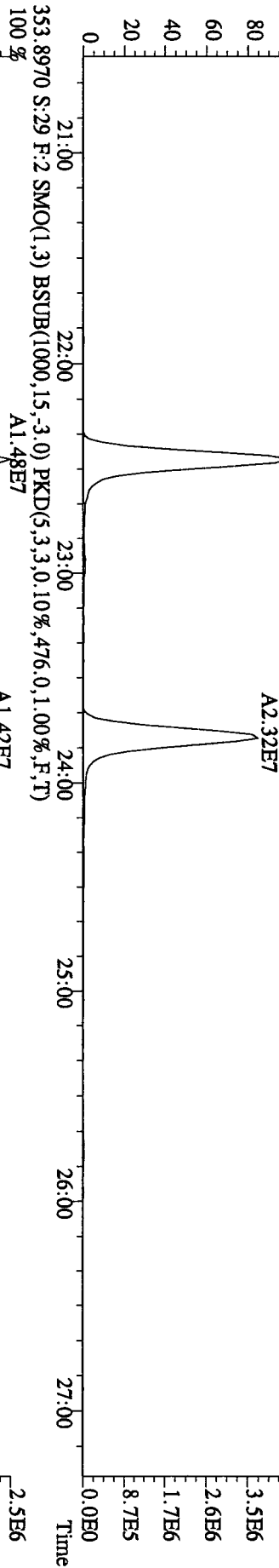
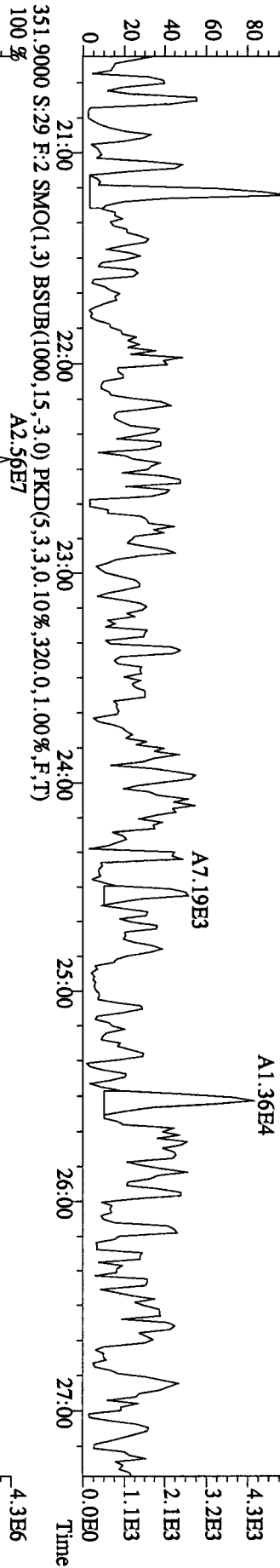
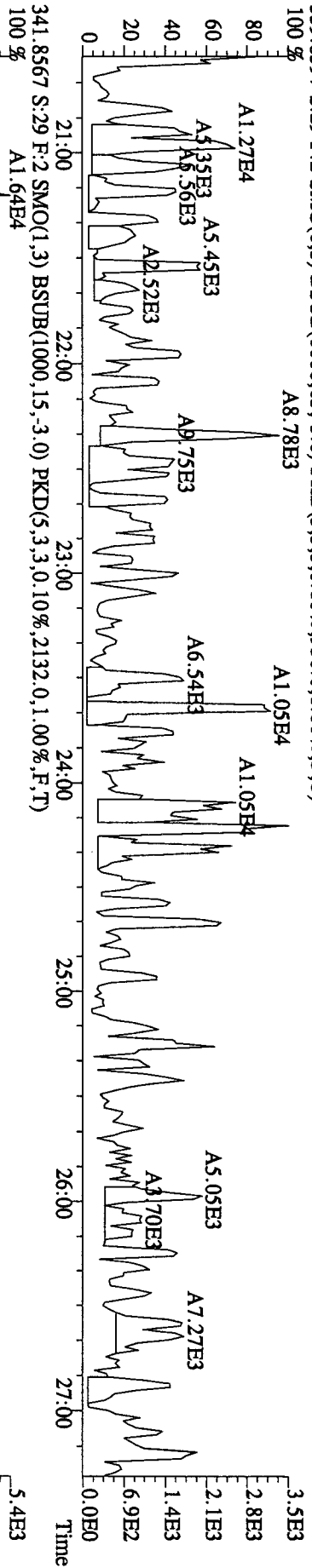
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 Sample#29 Text:L84XJ-1-AA :G01260480-3MB Exp:DIOXINRES
 319.8965 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,708,0.1,00%,F,T)



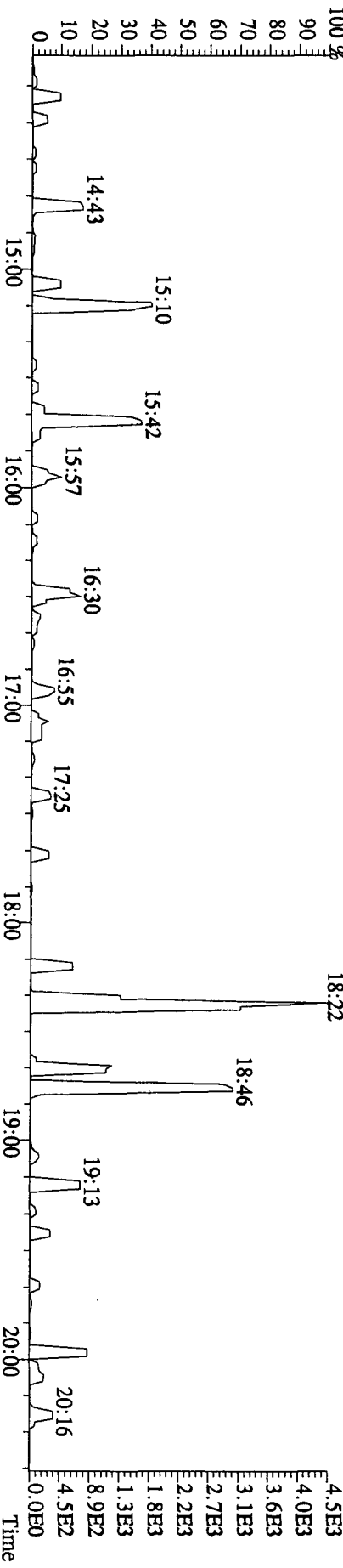
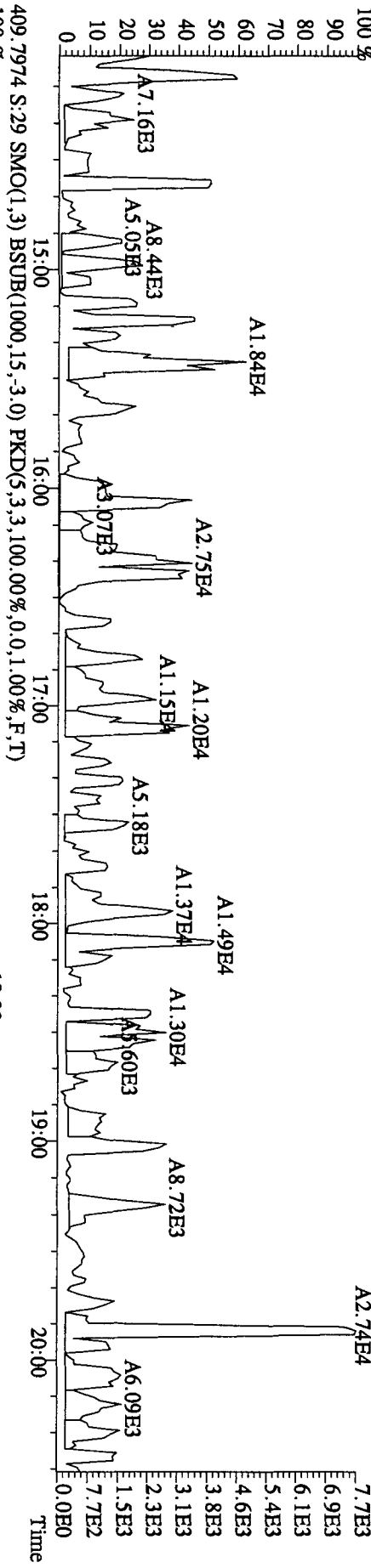
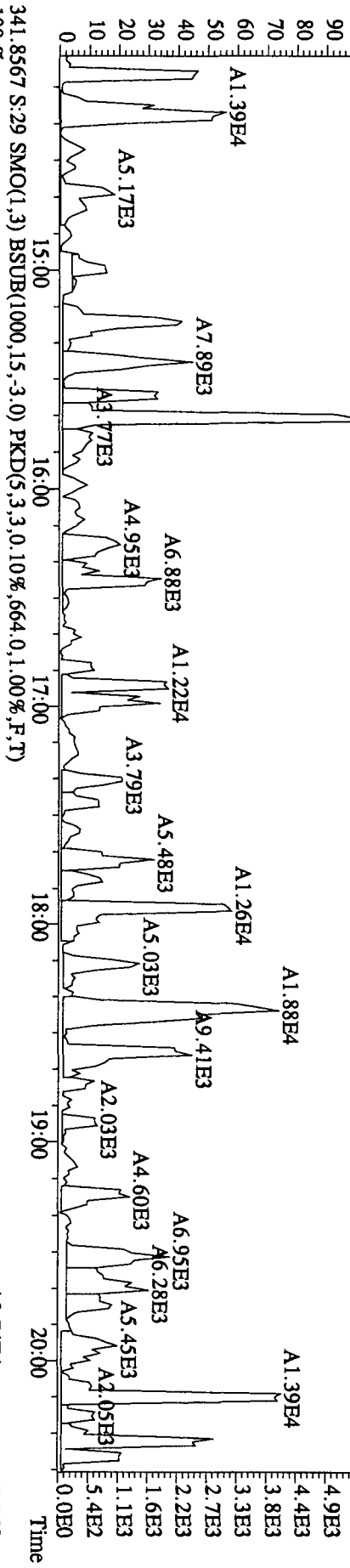
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 Sample#29 Text: L84XJ1-AA : G01260480-3MB Exp: DIOXINRES
 327.8847 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,488,0,1.00%,F,T)



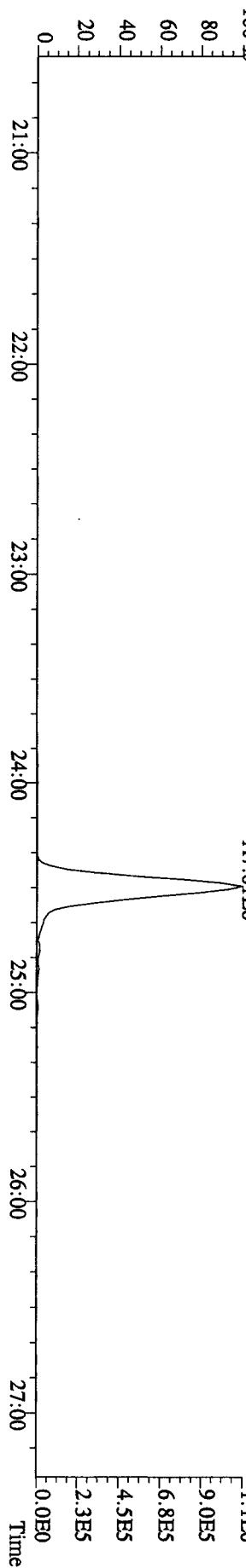
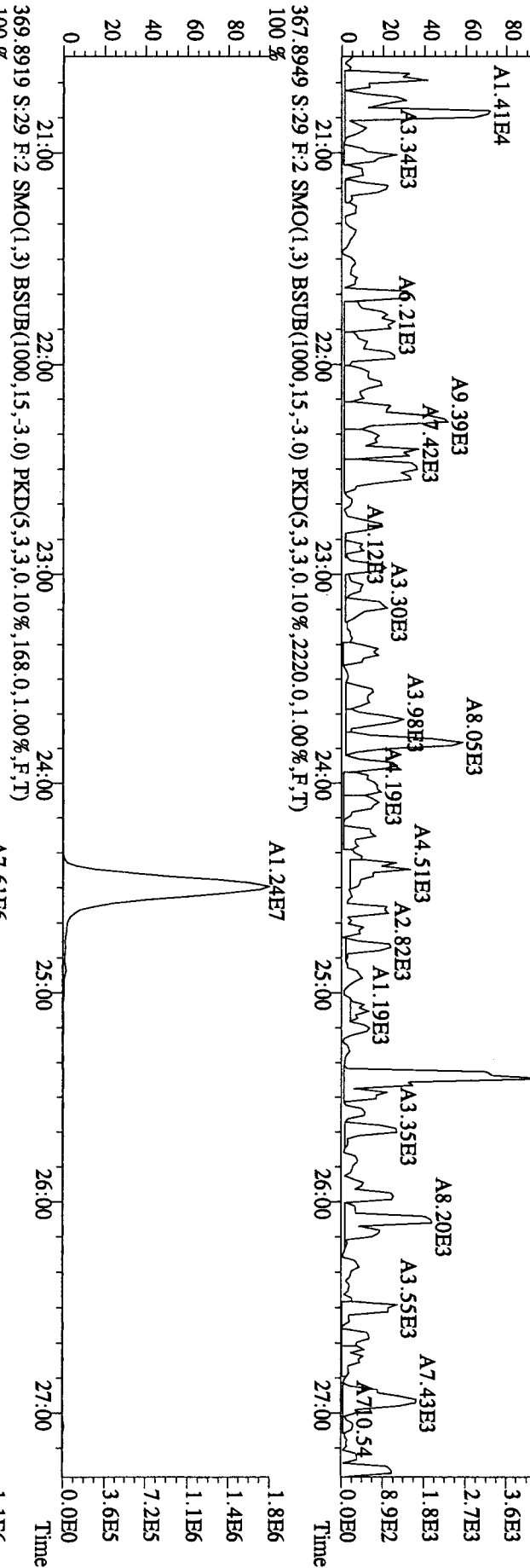
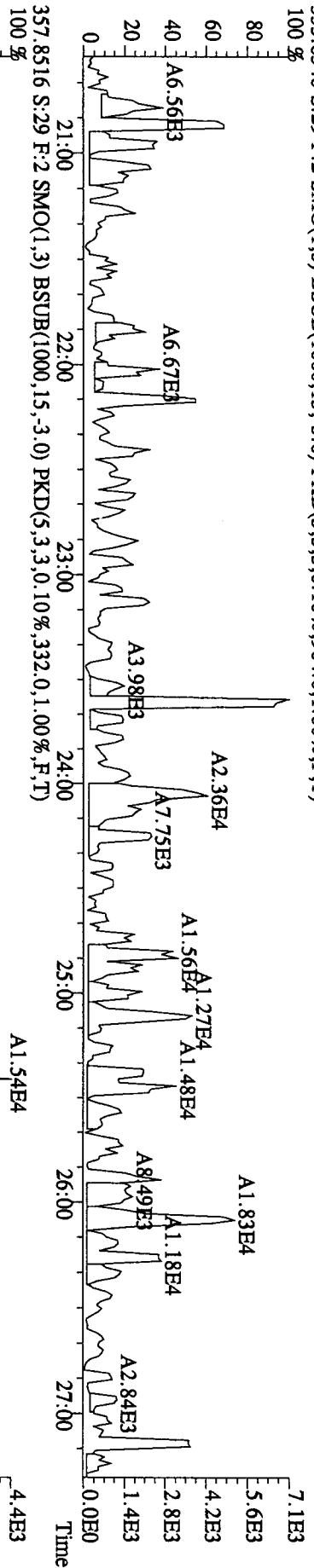
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 Sample#29 Text: L84XI-1-AA :G0J260480-3MB Exp: DIOXINRES
 339.8597 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)
 100 %



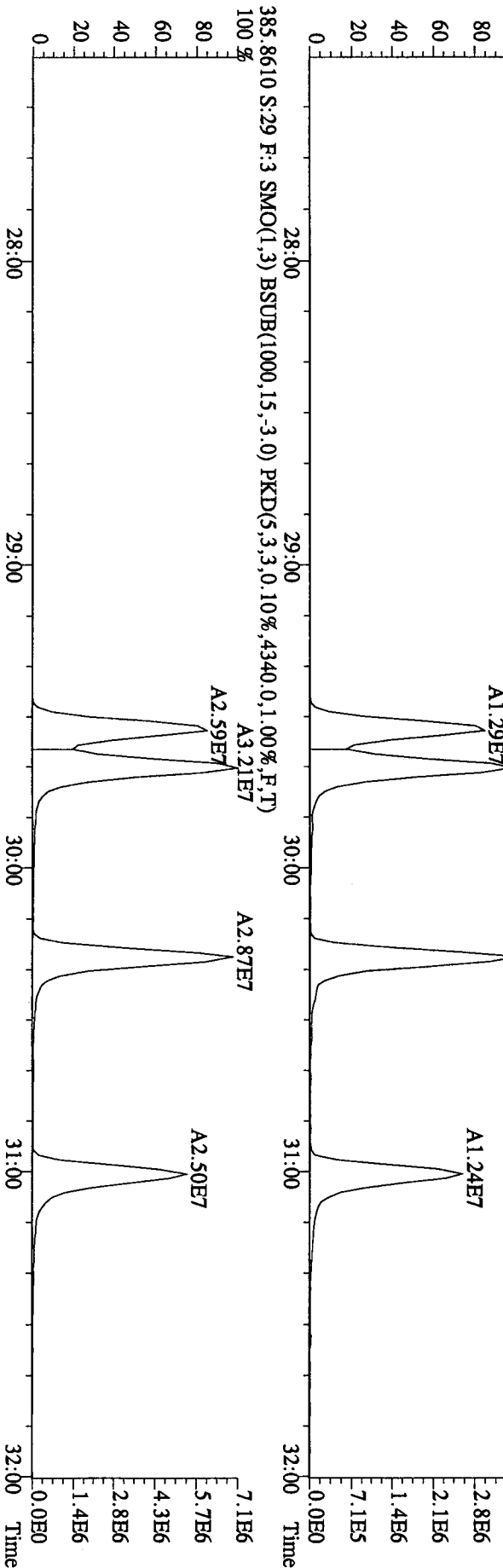
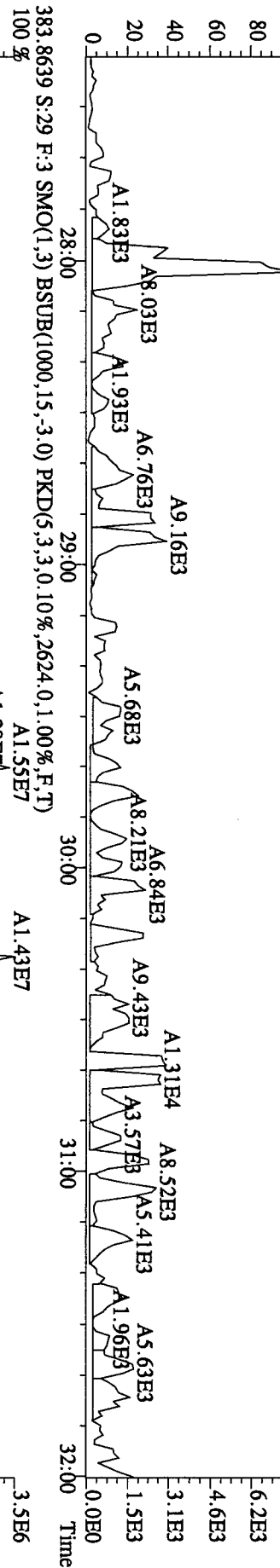
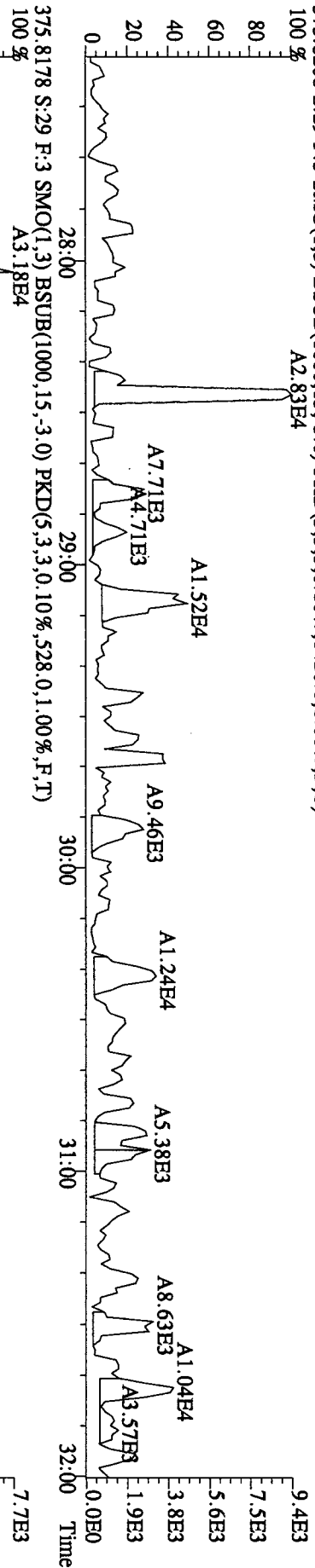
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 Sample#29 Text:L84XI-1-AA :G0J260480-3MB Exp:DIOXINRES
 339 8597 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,300,0.1,0.00%,F,T)



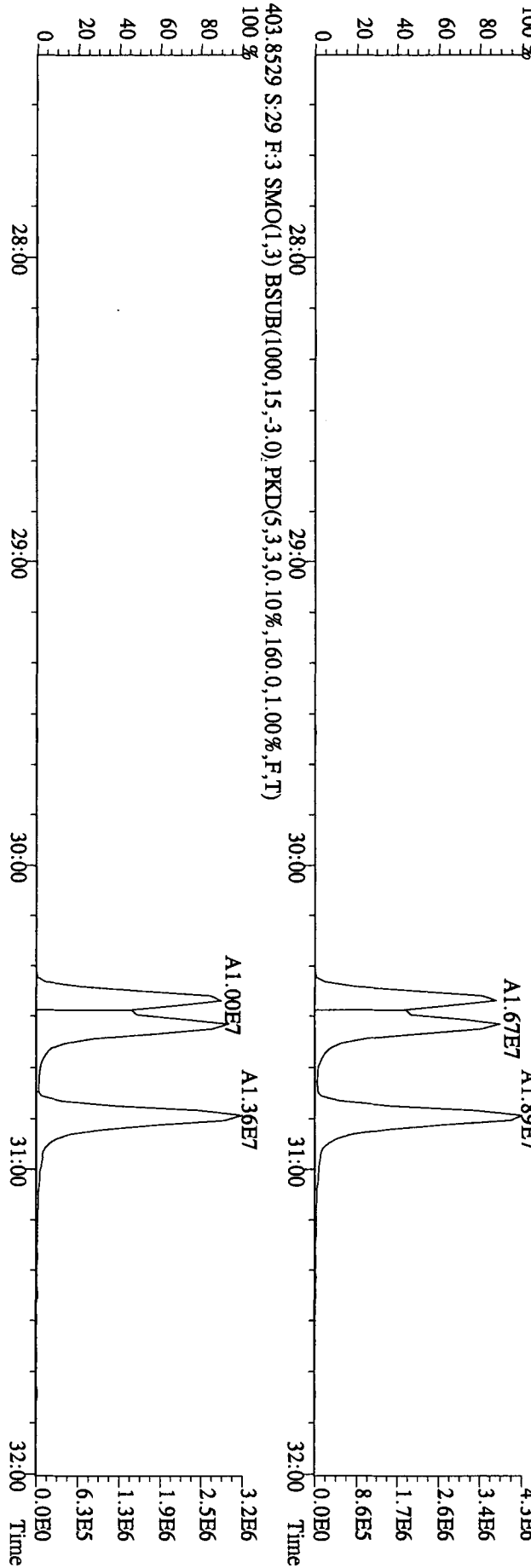
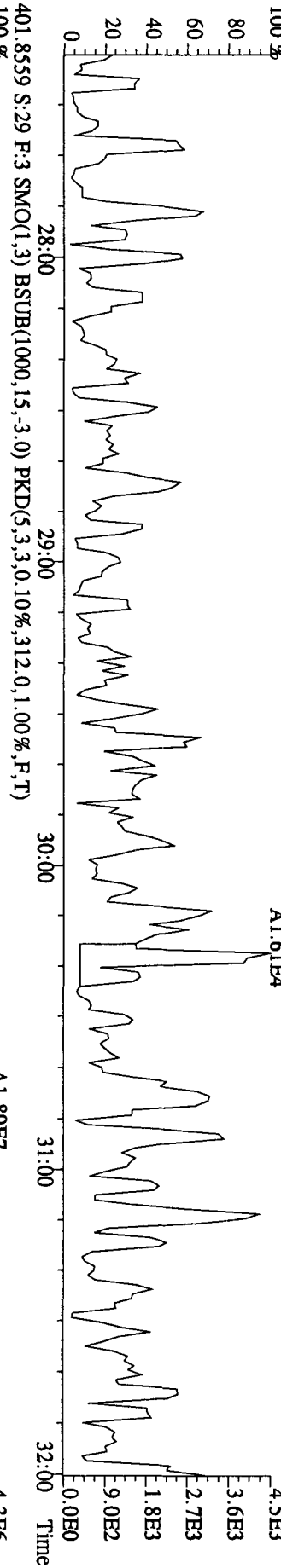
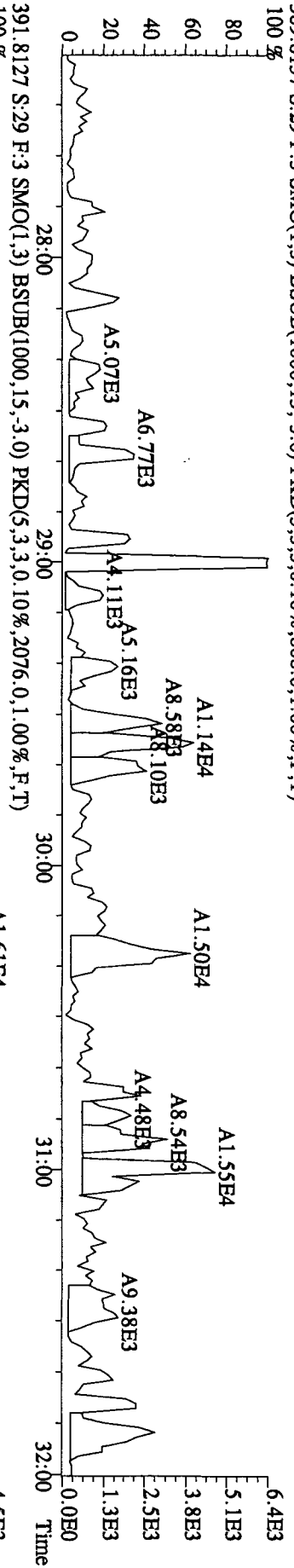
File: 02NO10A1D5 #1-422 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
Sample#29 Text: 184XJ-1-AA :G01260480-3MB Exp: DIOXINRES
355.8546 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,964.0,1.00%,F,T)

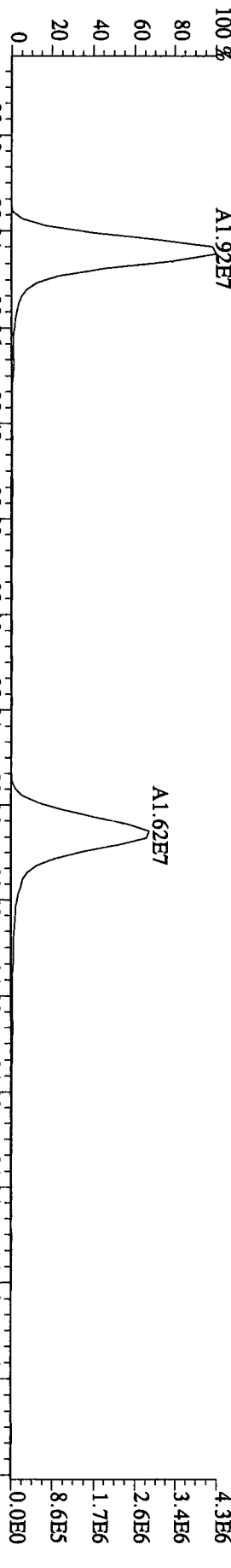
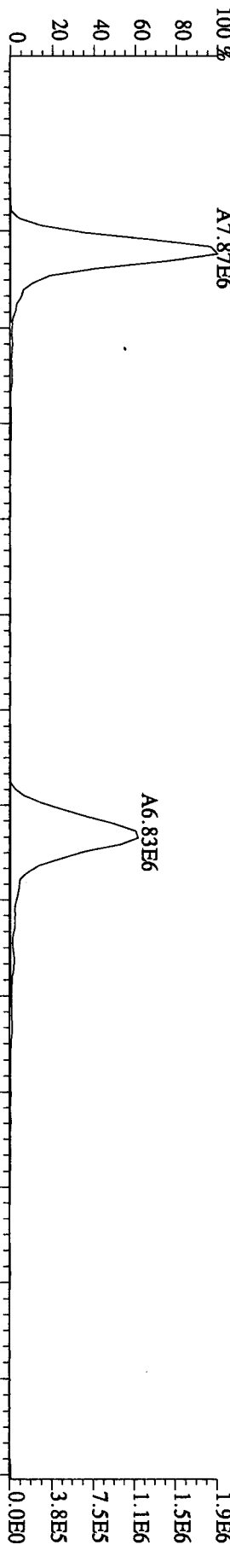
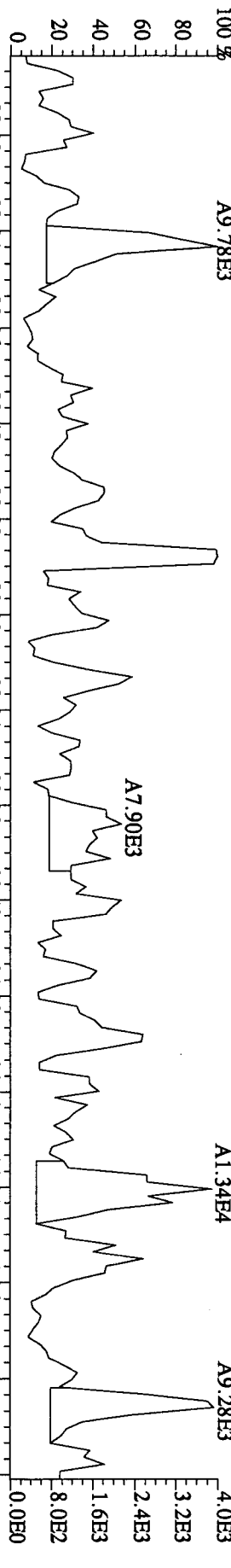
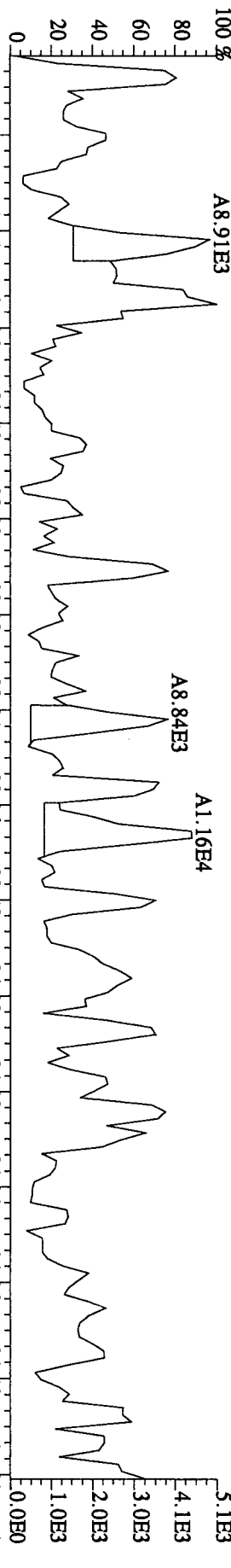


File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:184XI-1-AA :G01260480-3MB Exp:DIOXINRES
 373.8208 S:29 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,1420,0,1,00%,F,T)
 100 % A2.83E4

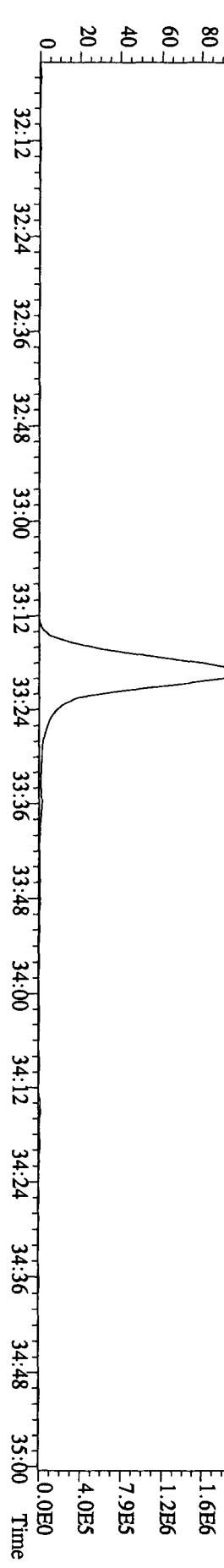
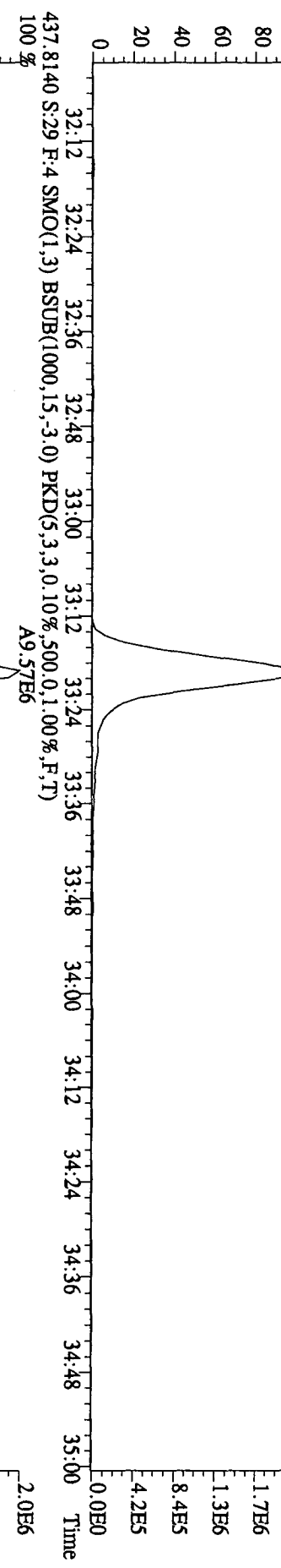
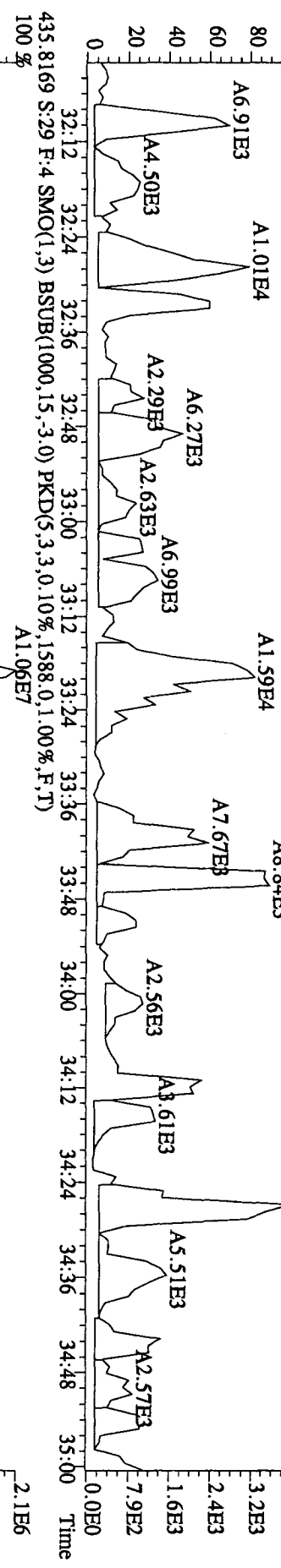
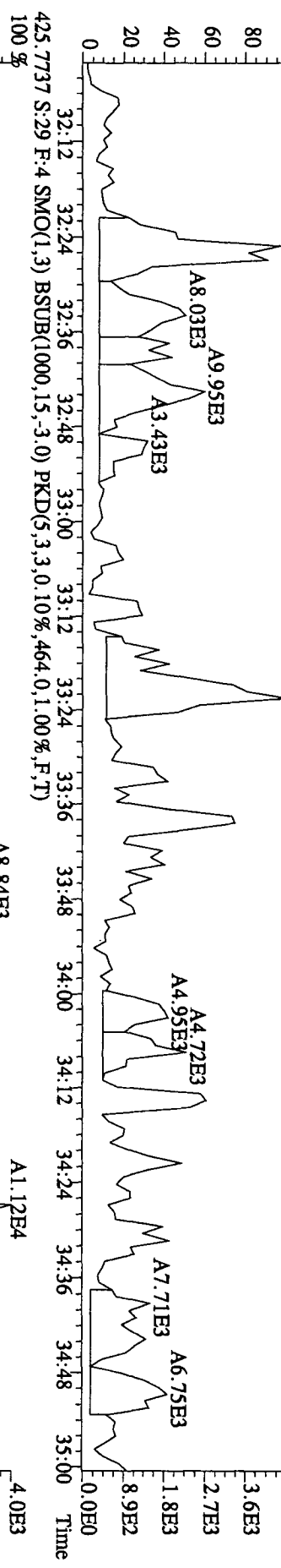


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text: L84XI-1-AA : G0J260480-3MB Exp: DIOXINRES
 389_8157 S:29 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,808,0,1,100%,F,T)

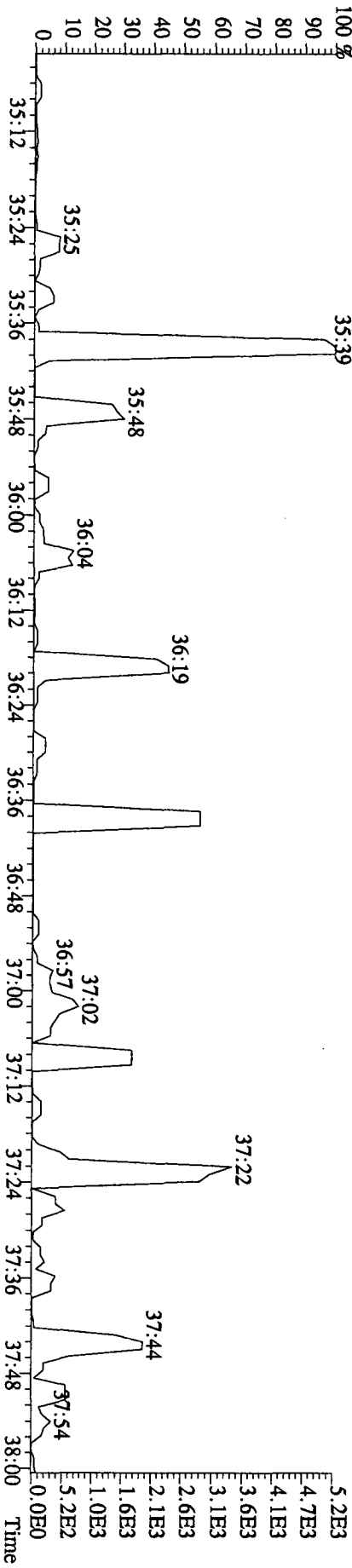
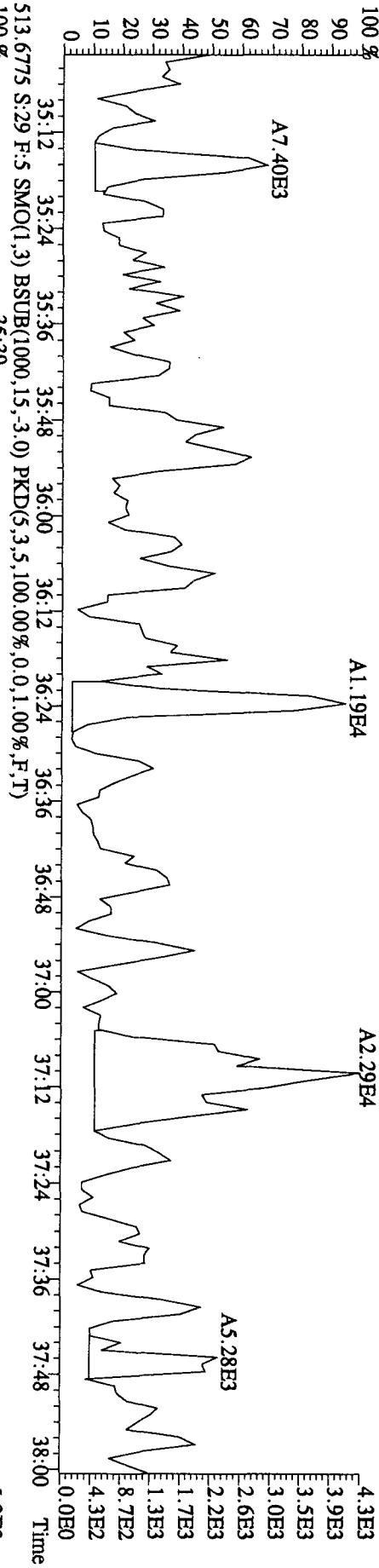
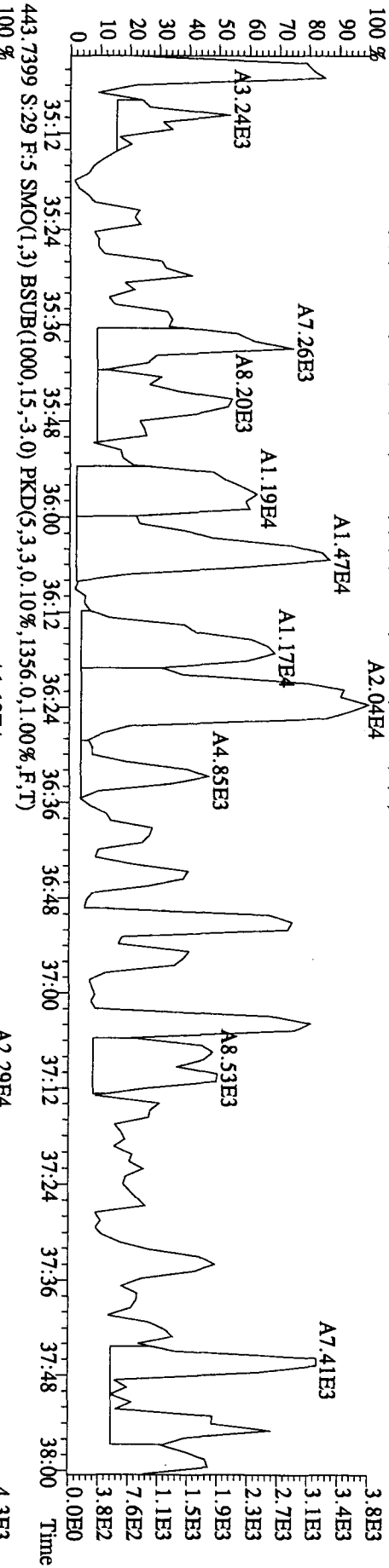




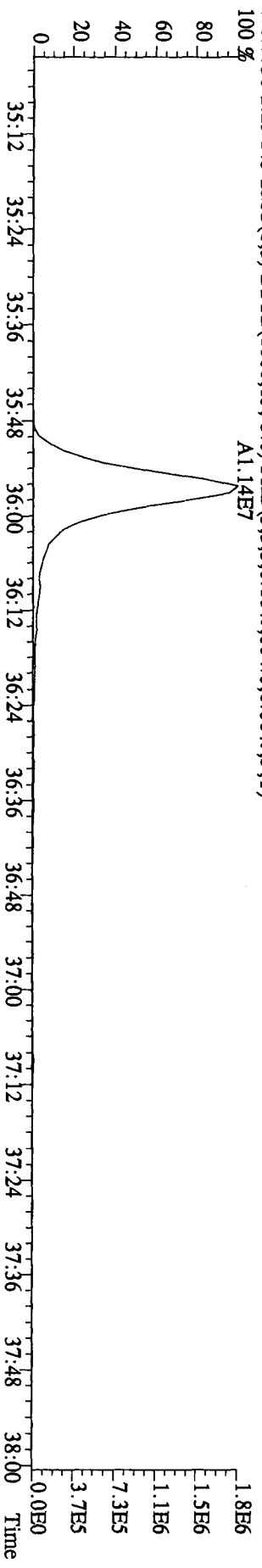
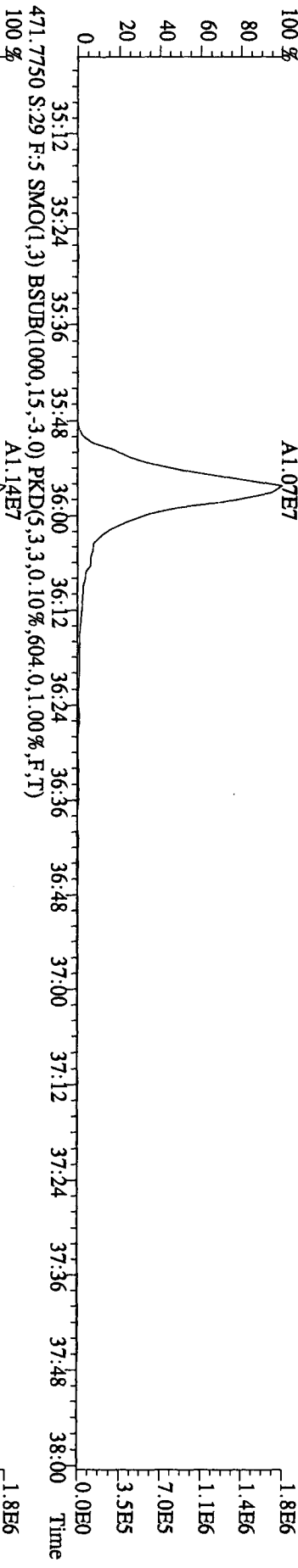
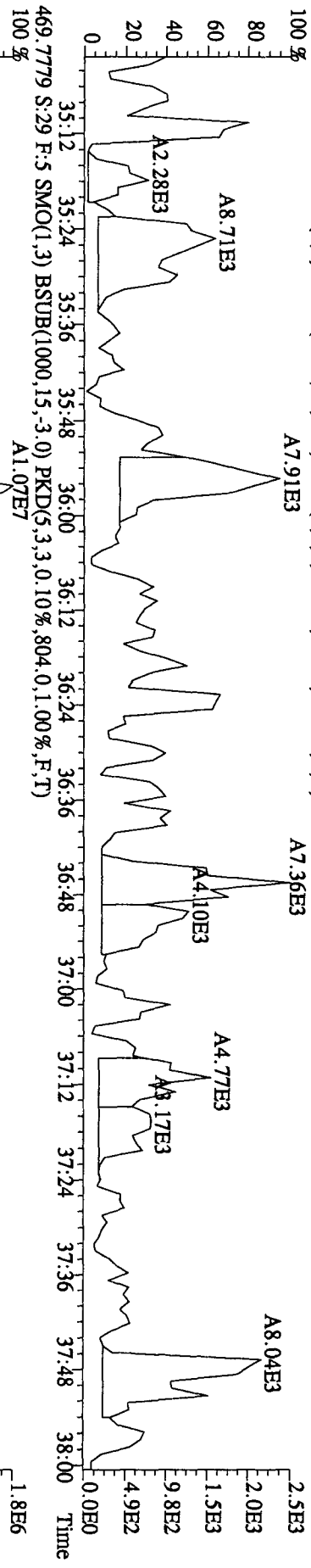
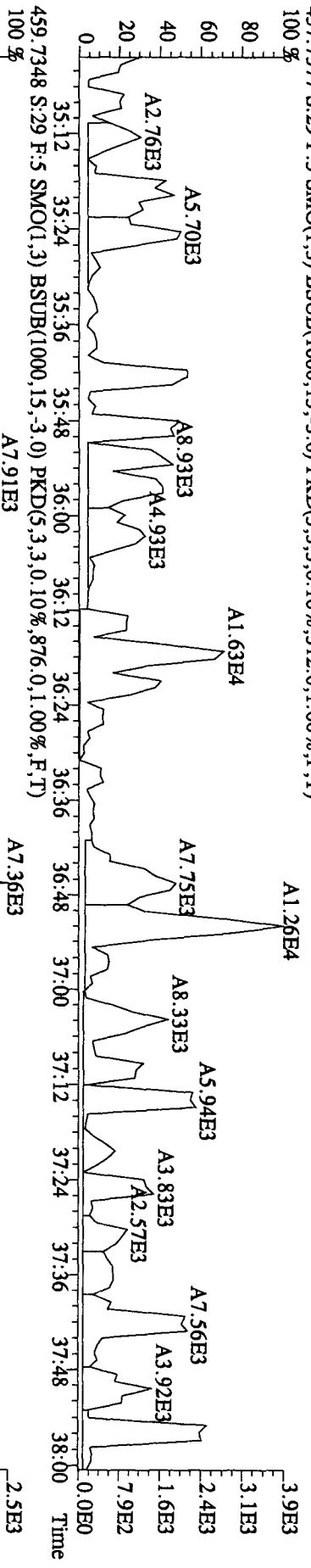
File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text: L84XJ1-AA :G01260480-3MB Exp: DIOXINRES
 423.7766 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1048,0,1,00%,F,T)
 100 % A1.55E4 A1.73E4

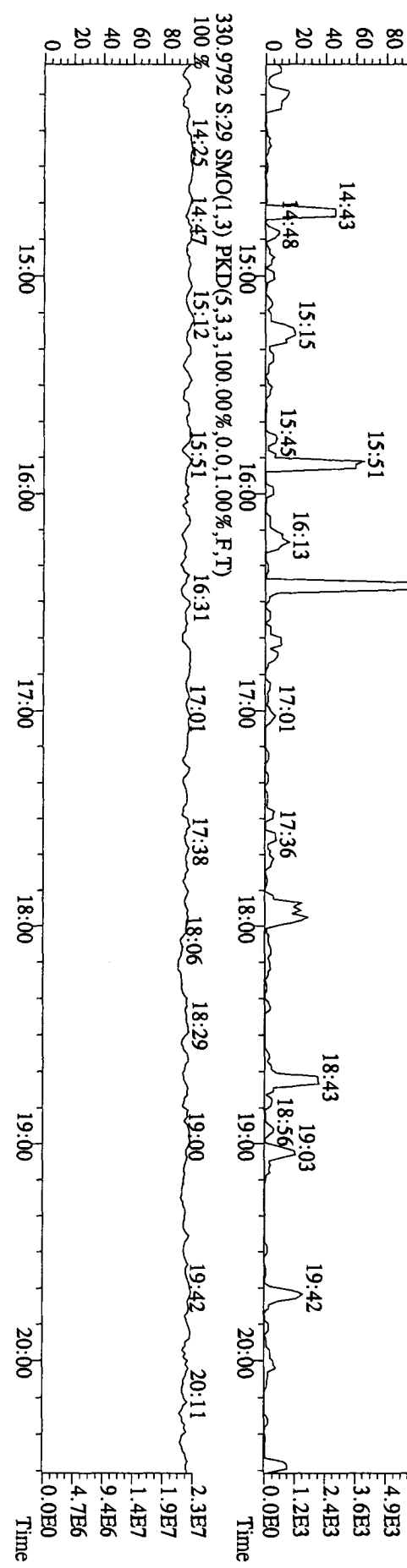
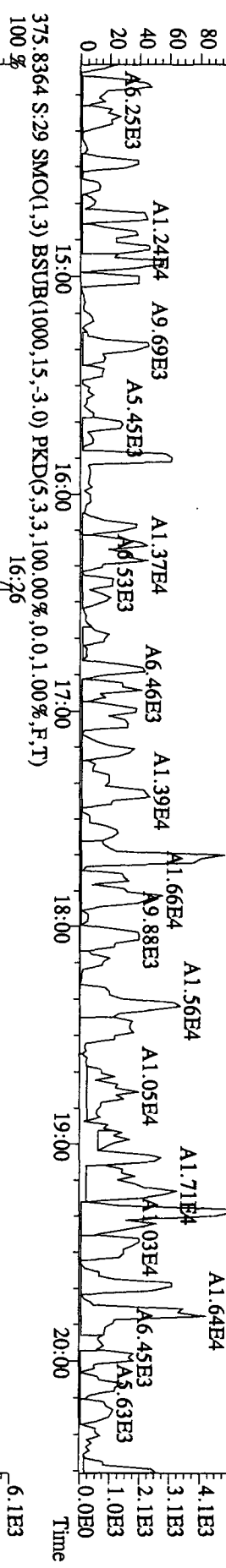
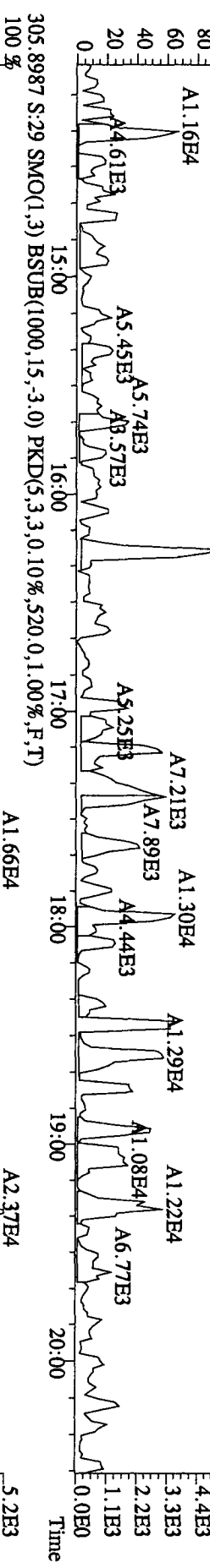
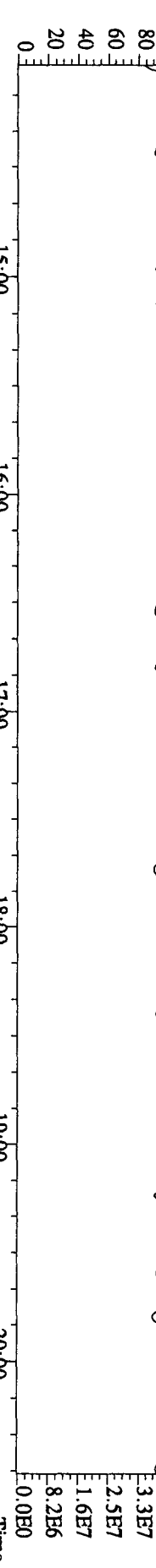


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI + Voltage SIR 70SE
 Sample#29 Text:L84XJ-1-AA :G0J260480-3MB Exp:DIOXINRES
 441.7428 S:29 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1104.0,1.00%,F,T)
 100%

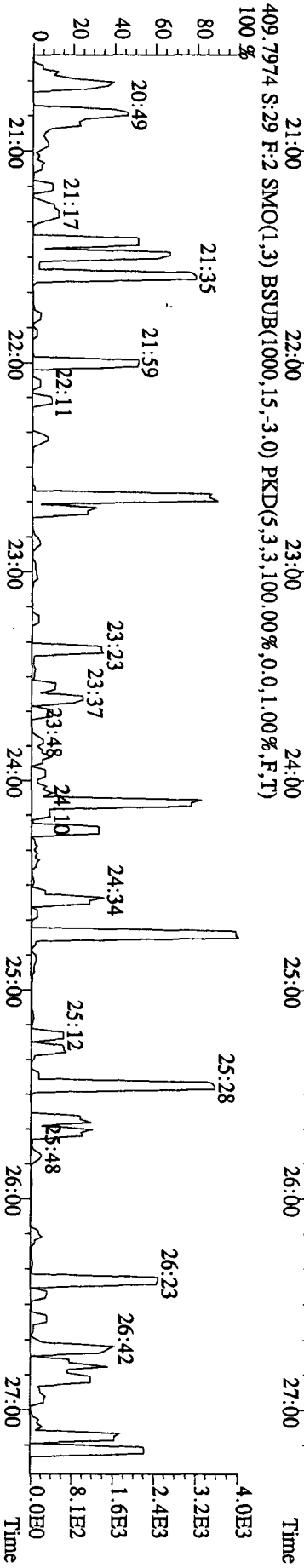
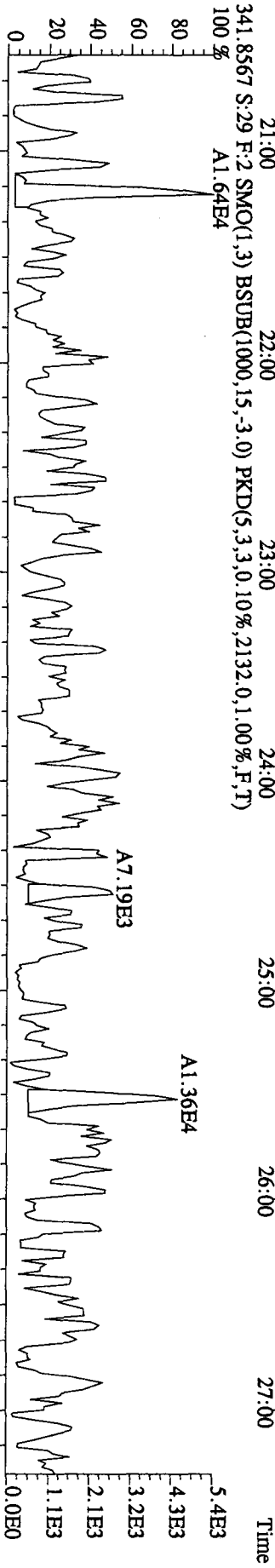
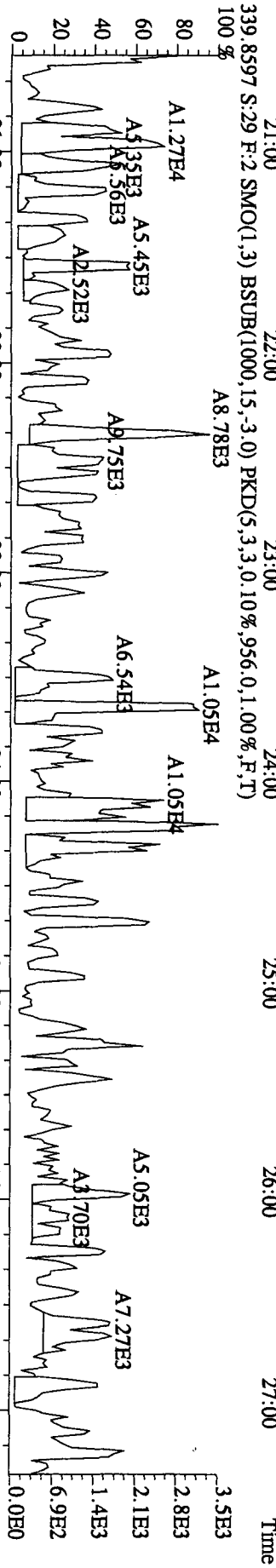
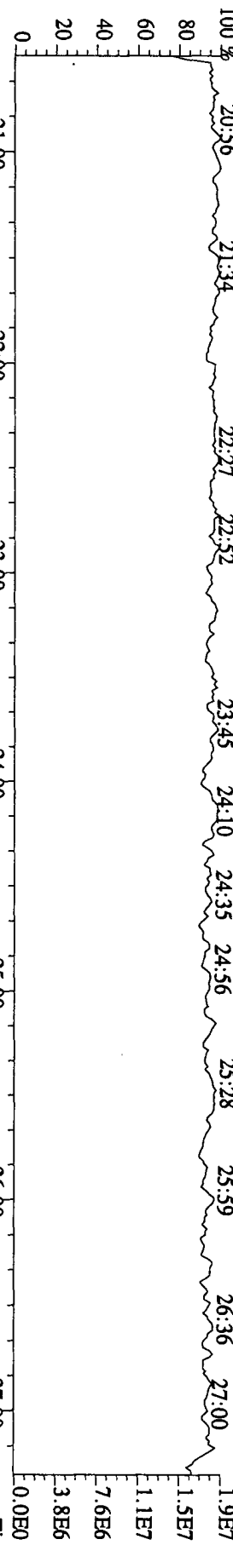


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
Sample#29 Text:L84XJ1-AA :G0J260480-3MB Exp:DIOXINRES
457.7377 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,312.0,1.00%,F,T)

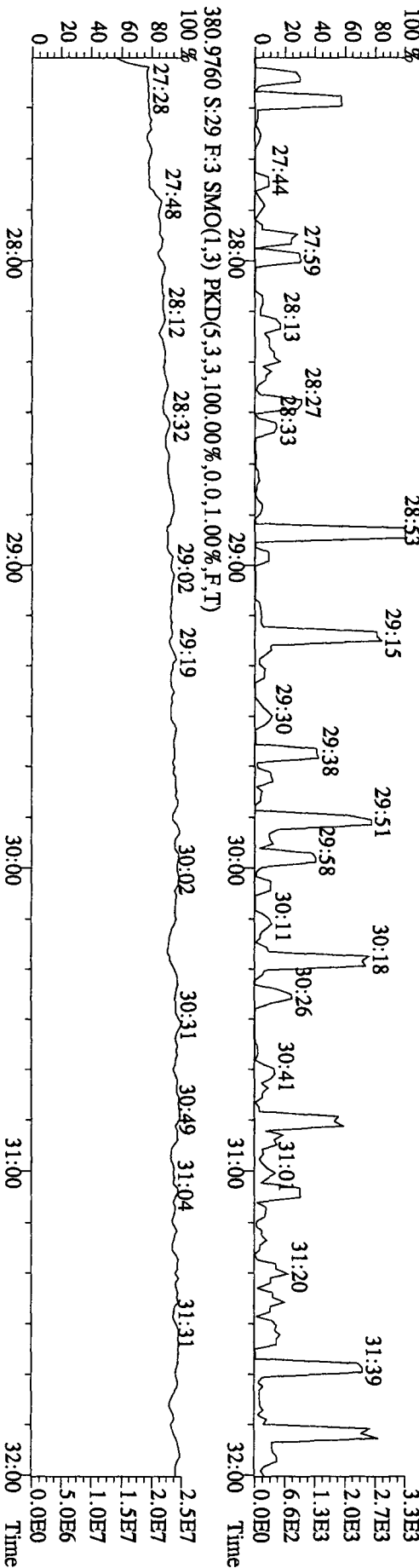
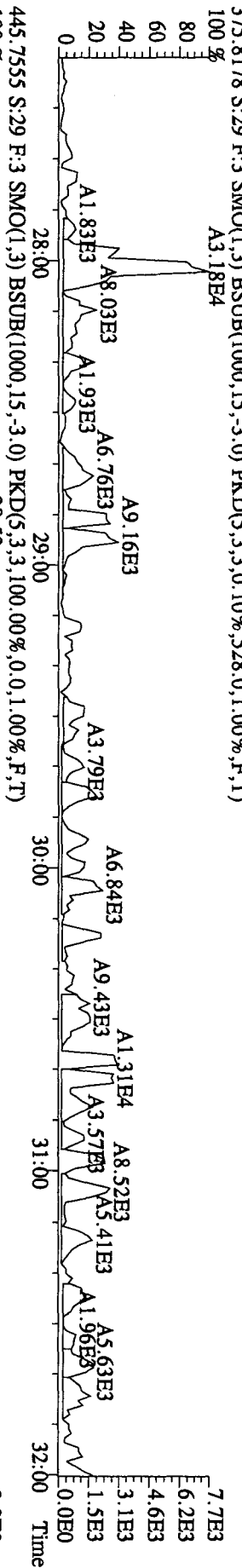
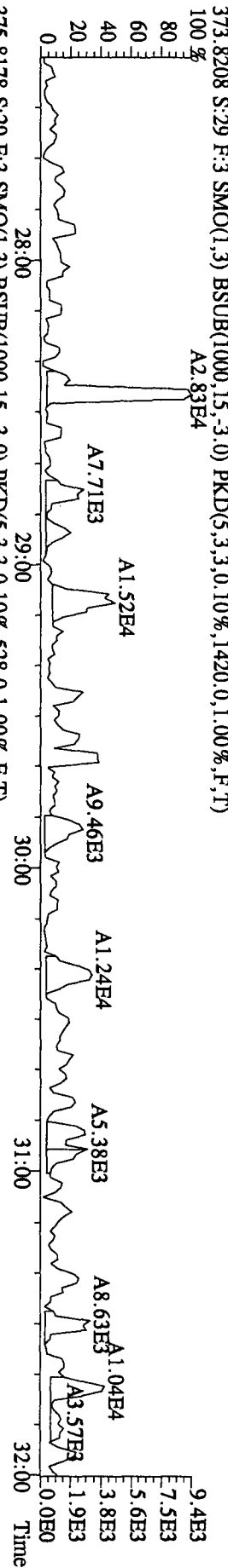
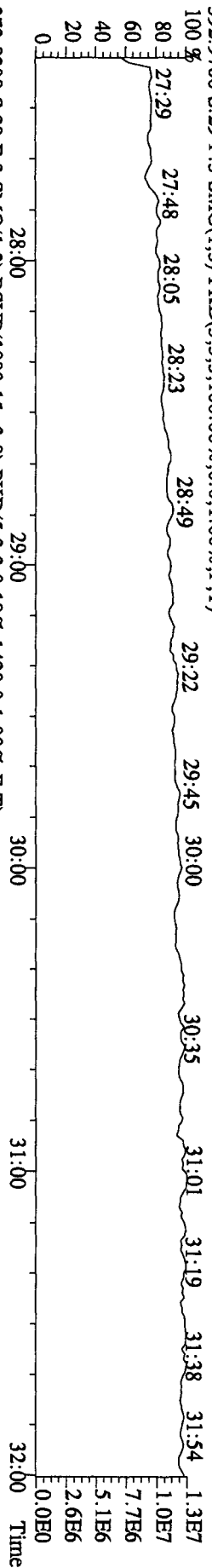




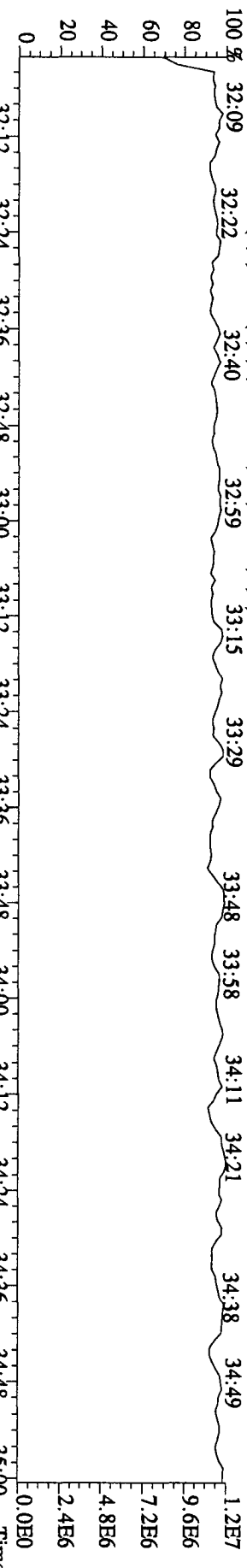
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84X1-1-AA :G01260480-3MB Exp:DIOXINKES
 342.9792 S:29 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 20:56 21:34 22:27 22:52 23:45 24:10 24:35 24:56 25:28 25:59 26:36 27:00



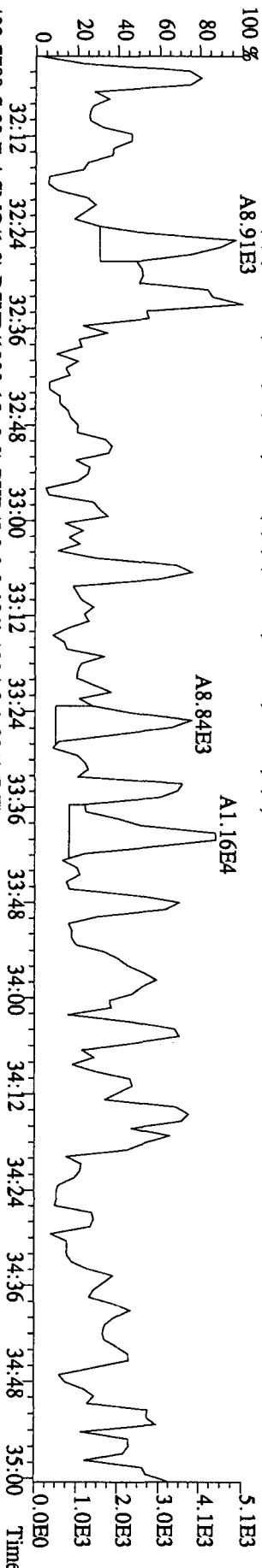
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage S1R 70SE
 Sample#29 Text: L84XJ-1-AA :G01260480-3MB Exp: DIOXINRES
 392.9760 S:29 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



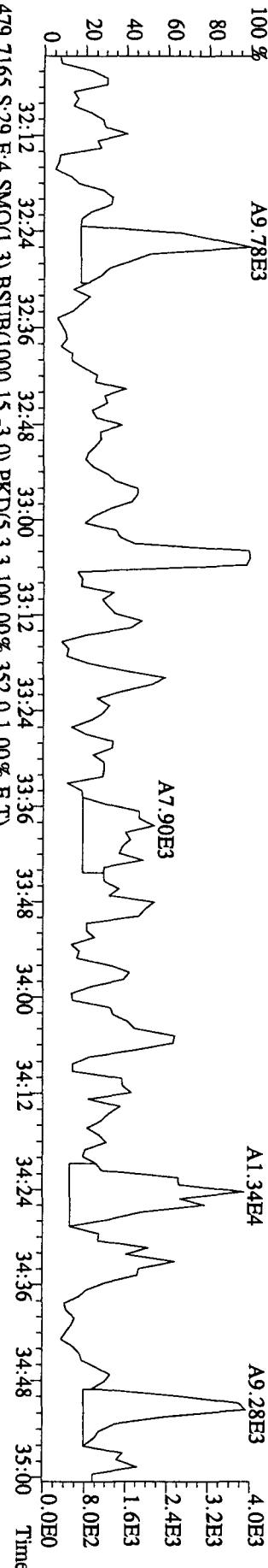
430 9728 S:29 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



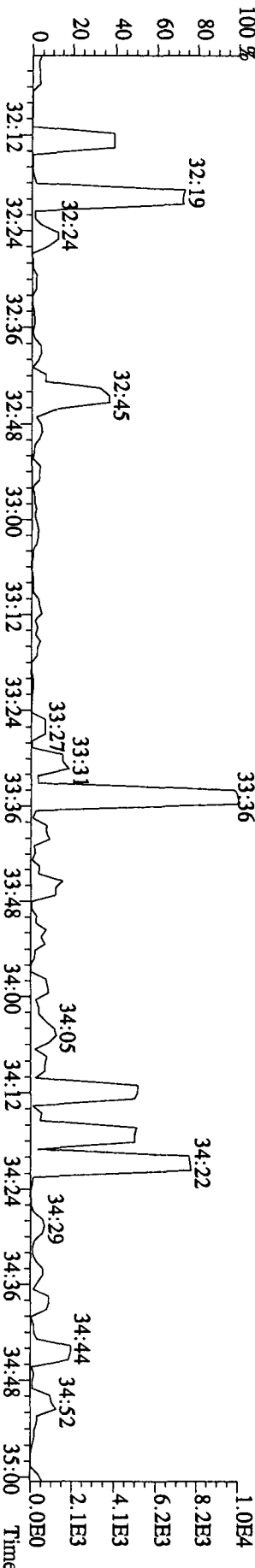
407 7818 S:29 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1816,0,1,00%,F,T)



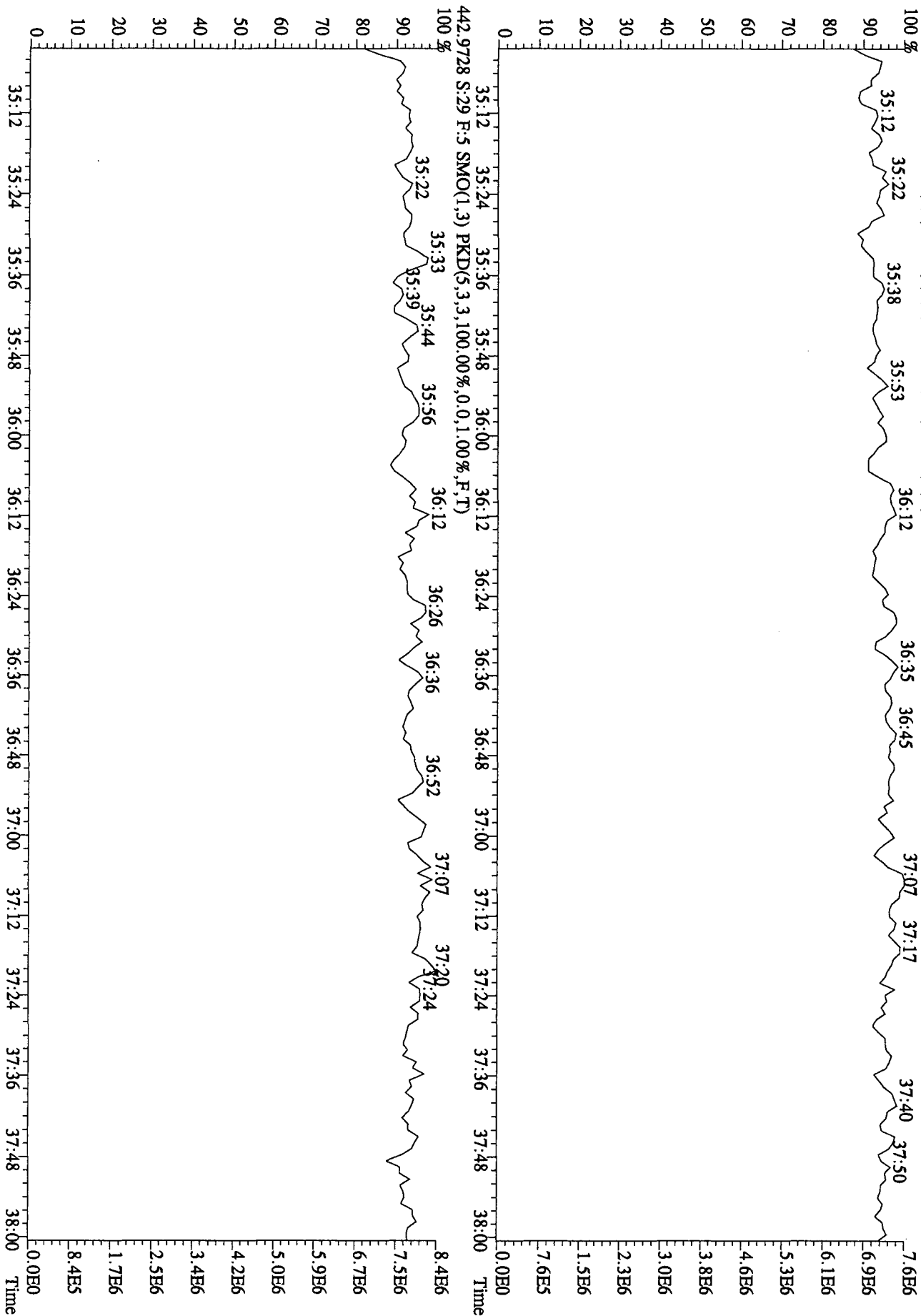
409 7789 S:29 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1304,0,1,00%,F,T)



479 7165 S:29 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,352,0,1,00%,F,T)



File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text: L84XJ1-AA : G01260480-3MB Exp: DIOXINRES
 454.9728 S:29 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



05
11-5-10

Run text: L84XJ-1-AC Sample text: L84XJ-1-AC :G0J260480-3LCS
 Run #9 Filename: 02NO10A1D5 S: 30 I: 1 Results: 02no10ald5to9os
 Acquired: 3-NOV-10 11:18:14 Processed: 3-NOV-10 16:16:26
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

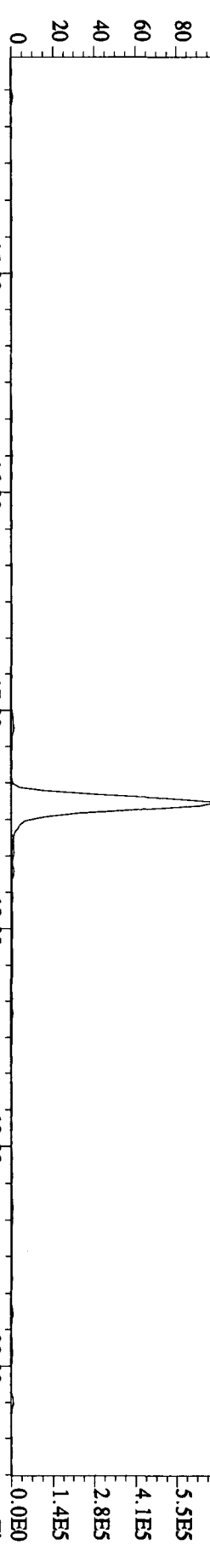
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	40272800	0.84 y	17:55	-	47.105	-	-	n
13C-2,3,7,8-TCDF	61405400	0.79 y	17:24	1.57	3873.578	1.438	96.8	n
2,3,7,8-TCDF	7319500	0.75 y	17:25	0.88	543.363	2.276	-	n
Total TCDF	7480521	0.94 n	17:05	0.88	555.317	2.276	-	n
13C-2,3,7,8-TCDD	30830800	0.82 y	18:07	0.99	3095.262	3.382	77.4	n
2,3,7,8-TCDD	3799280	0.81 y	18:08	0.94	524.294	3.027	-	n
Total TCDD	3965884	0.39 n	14:15	0.94	547.285	3.027	-	n
37Cl-2,3,7,8-TCDD	189279	1.00 y	18:10	1.18	20.864	1.405	1.3	n
13C-1,2,3,7,8-PeCDF	38155300	1.77 y	22:28	1.15	3282.778	2.966	82.1	n
1,2,3,7,8-PeCDF	25923620	1.70 y	22:29	1.03	2640.605	7.964	-	n
2,3,4,7,8-PeCDF	23602940	1.70 y	23:49	0.95	2612.943	8.655	-	n
Total F2 PeCDF	50215054	1.00 n	21:07	0.99	5326.597	8.295	-	n
Total F1 PeCDF	242278	1.44 y	14:15	0.99	25.705	1.283	-	n
13C-1,2,3,7,8-PeCDD	17776240	1.71 y	24:29	0.67	2647.010	0.671	66.2	n
1,2,3,7,8-PeCDD	11617080	1.68 y	24:31	0.96	2720.152	8.697	-	n
Total PeCDD	11760355	0.76 n	21:40	0.96	2753.700	8.697	-	n
13C-1,2,3,7,8,9-HxCDD	30876400	1.29 y	30:50	-	45.931	-	-	n
13C-1,2,3,4,7,8-HxCDF	38094200	0.50 y	29:32	1.15	4297.821	8.021	107.4	n
1,2,3,4,7,8-HxCDF	31327000	1.30 y	29:33	1.22	2698.383	8.318	-	n
1,2,3,6,7,8-HxCDF	33277200	1.35 y	29:41	1.41	2483.191	7.206	-	n
2,3,4,6,7,8-HxCDF	29229300	1.38 y	30:18	1.23	2490.985	8.230	-	n
1,2,3,7,8,9-HxCDF	24545700	1.29 y	31:01	1.08	2378.156	9.357	-	n
Total HxCDF	118405827	1.30 y	29:33	1.24	10052.979	8.208	-	n
13C-1,2,3,6,7,8-HxCDD	24532300	1.33 y	30:32	0.96	3314.521	7.543	82.9	n
1,2,3,4,7,8-HxCDD	15707080	1.33 y	30:27	0.89	2886.400	5.035	-	y
1,2,3,6,7,8-HxCDD	17115150	1.35 y	30:32	1.05	2660.514	4.259	-	y
1,2,3,7,8,9-HxCDD	17134710	1.33 y	30:50	1.00	2780.360	4.446	-	n
Total HxCDD	49978951	1.33 y	30:27	0.98	8330.935	4.557	-	y
13C-1,2,3,4,6,7,8-HpCDF	24911410	0.41 y	32:26	0.98	3278.656	21.314	82.0	n
1,2,3,4,6,7,8-HpCDF	21183600	1.04 y	32:27	1.33	2554.712	13.781	-	n
1,2,3,4,7,8,9-HpCDF	17436030	1.06 y	33:40	1.12	2501.895	16.397	-	n
Total HpCDF	38755220	1.04 y	32:27	1.23	5074.377	14.975	-	n
13C-1,2,3,4,6,7,8-HpCDD	18084830	1.06 y	33:19	0.82	2841.875	7.861	71.0	n
1,2,3,4,6,7,8-HpCDD	12003750	1.08 y	33:19	1.05	2533.080	12.608	-	n
Total HpCDD	12338687	0.23 n	32:19	1.05	2603.760	12.608	-	n
13C-OCDD	19815550	0.93 y	35:56	0.54	4737.970	6.462	59.2	n
OCDF	21910700	0.89 y	36:03	1.58	5599.049	19.116	-	n

OCDD 14438740 0.92 y 35:57 1.13 5144.426 / 22.638 - n

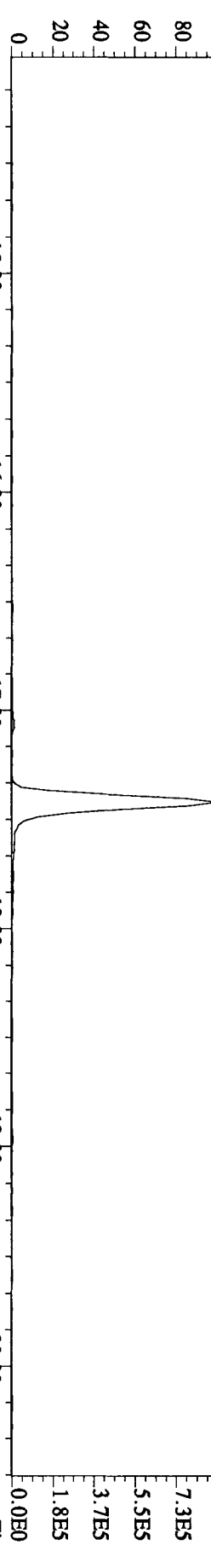
Run text: L84XJ-1-AC Sample text: L84XJ-1-AC :G0J260480-3LCS
 Run #9 Filename: 02NO10A1D5 S: 30 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 11:18:14 Processed: 3-NOV-10 16:16:26
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	40272800	0.84 y	17:55	-	47.11	-	-	n
13C-2,3,7,8-TCDF	61405400	0.79 y	17:24	1.57	3873.58	1.44	96.8	n
2,3,7,8-TCDF	7319500	0.75 y	17:25	0.88	543.36	2.28	-	n
Total TCDF	7480521	0.94 n	17:05	0.88	555.32	2.28	-	n
13C-2,3,7,8-TCDD	30830800	0.82 y	18:07	0.99	3095.26	3.38	77.4	n
2,3,7,8-TCDD	3799280	0.81 y	18:08	0.94	524.29	3.03	-	n
Total TCDD	3965884	0.39 n	14:15	0.94	547.29	3.03	-	n
37Cl-2,3,7,8-TCDD	189279	1.00 y	18:10	1.18	20.86	1.40	1.3	n
13C-1,2,3,7,8-PeCDF	38155300	1.77 y	22:28	1.15	3282.78	2.97	82.1	n
1,2,3,7,8-PeCDF	25923620	1.70 y	22:29	1.03	2640.61	7.96	-	n
2,3,4,7,8-PeCDF	23602940	1.70 y	23:49	0.95	2612.94	8.65	-	n
Total F2 PeCDF	50215054	1.00 n	21:07	0.99	5326.60	8.29	-	n
Total F1 PeCDF	242278	1.44 y	14:15	0.99	25.71	1.28	-	n
13C-1,2,3,7,8-PeCDD	17776240	1.71 y	24:29	0.67	2647.01	0.67	66.2	n
1,2,3,7,8-PeCDD	11617080	1.68 y	24:31	0.96	2720.15	8.70	-	n
Total PeCDD	11760355	0.76 n	21:40	0.96	2753.70	8.70	-	n
13C-1,2,3,7,8,9-HxCDD	30876400	1.29 y	30:50	-	45.93	-	-	n
13C-1,2,3,4,7,8-HxCDF	38094200	0.50 y	29:32	1.15	4297.82	8.02	107.4	n
1,2,3,4,7,8-HxCDF	31327000	1.30 y	29:33	1.22	2698.38	8.32	-	n
1,2,3,6,7,8-HxCDF	33277200	1.35 y	29:41	1.41	2483.19	7.21	-	n
2,3,4,6,7,8-HxCDF	29229300	1.38 y	30:18	1.23	2490.99	8.23	-	n
1,2,3,7,8,9-HxCDF	24545700	1.29 y	31:01	1.08	2378.16	9.36	-	n
Total HxCDF	118405827	1.30 y	29:33	1.24	10052.98	8.21	-	n
13C-1,2,3,6,7,8-HxCDD	24532300	1.33 y	30:32	0.96	3314.52	7.54	82.9	n
1,2,3,4,7,8-HxCDD	13250294	1.51 n	30:27	0.89	2434.93	5.03	-	n
1,2,3,6,7,8-HxCDD	17963400	1.21 y	30:32	1.05	2792.37	4.26	-	n
1,2,3,7,8,9-HxCDD	17134700	1.33 y	30:50	1.00	2780.36	4.45	-	n
Total HxCDD	48370405	1.51 n	30:27	0.98	8011.32	4.56	-	n
13C-1,2,3,4,6,7,8-HpCDF	24911410	0.41 y	32:26	0.98	3278.66	21.31	82.0	n
1,2,3,4,6,7,8-HpCDF	21183600	1.04 y	32:27	1.33	2554.71	13.78	-	n
1,2,3,4,7,8,9-HpCDF	17436030	1.06 y	33:40	1.12	2501.89	16.40	-	n
Total HpCDF	38755220	1.04 y	32:27	1.23	5074.38	14.98	-	n
13C-1,2,3,4,6,7,8-HpCDD	18084830	1.06 y	33:19	0.82	2841.88	7.86	71.0	n
1,2,3,4,6,7,8-HpCDD	12003750	1.08 y	33:19	1.05	2533.08	12.61	-	n
Total HpCDD	12338687	0.23 n	32:19	1.05	2603.76	12.61	-	n
13C-OCDD	19815550	0.93 y	35:56	0.54	4737.97	6.46	59.2	n
OCDF	21910700	0.89 y	36:03	1.58	5599.05	19.12	-	n
OCDD	14438740	0.92 y	35:57	1.13	5144.43	22.64	-	n

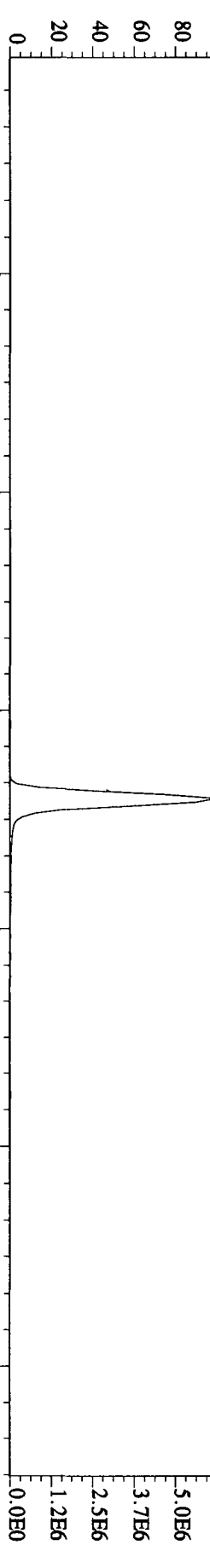
File:02N010A1D5 #1-382 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
 Sample#30 Text:L84XJ-1-AC :G0J260480-3LCS Exp:DIOXINRES
 303.9016 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1560.0,1.00%,F,T)
 100%



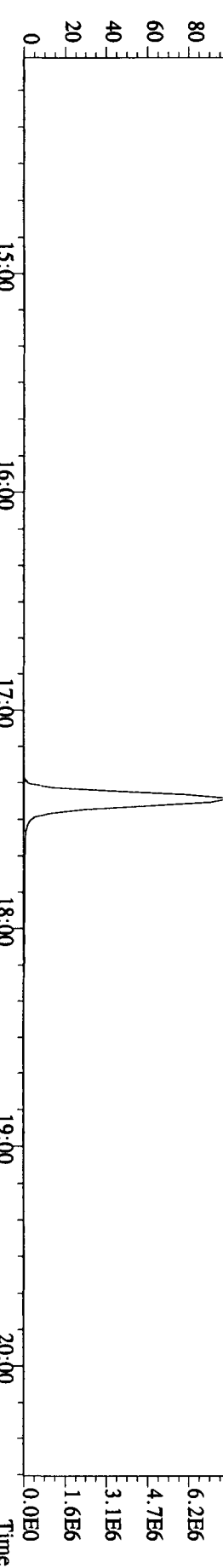
305.8987 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,772.0,1.00%,F,T)
 100%



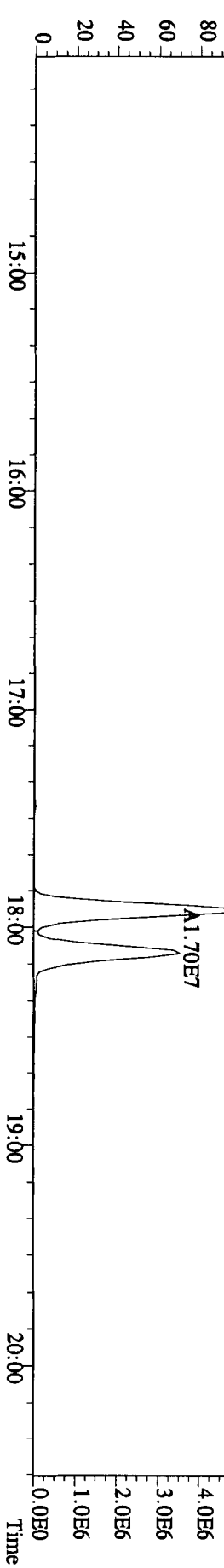
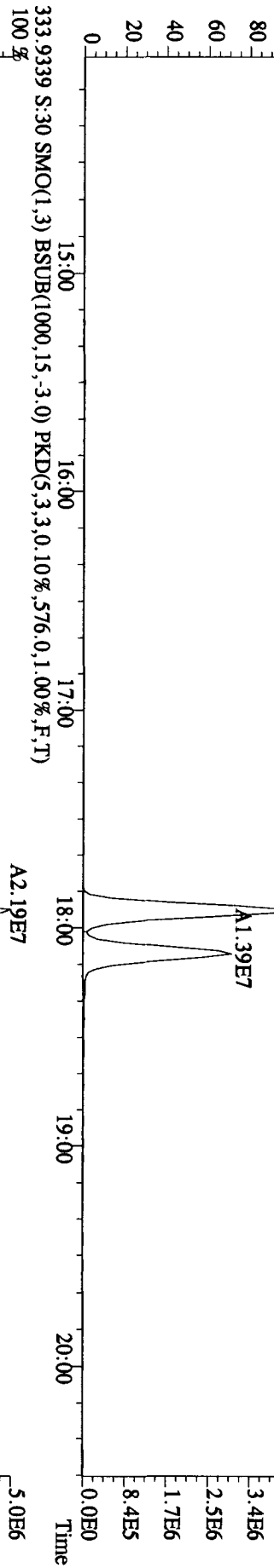
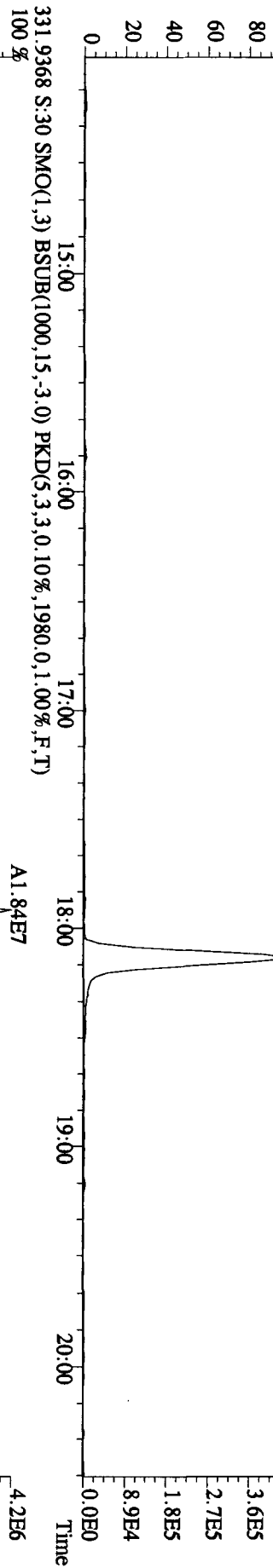
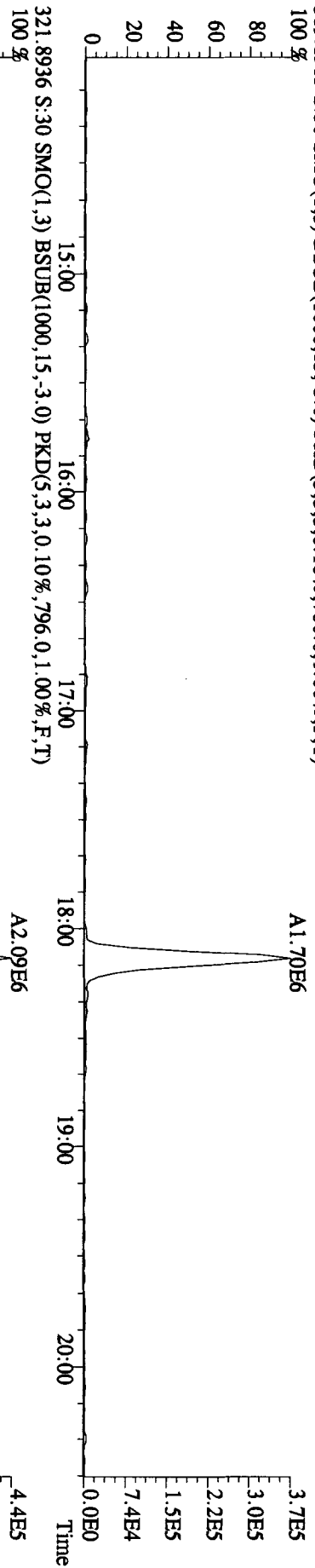
315.9419 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,268.0,1.00%,F,T)
 100%



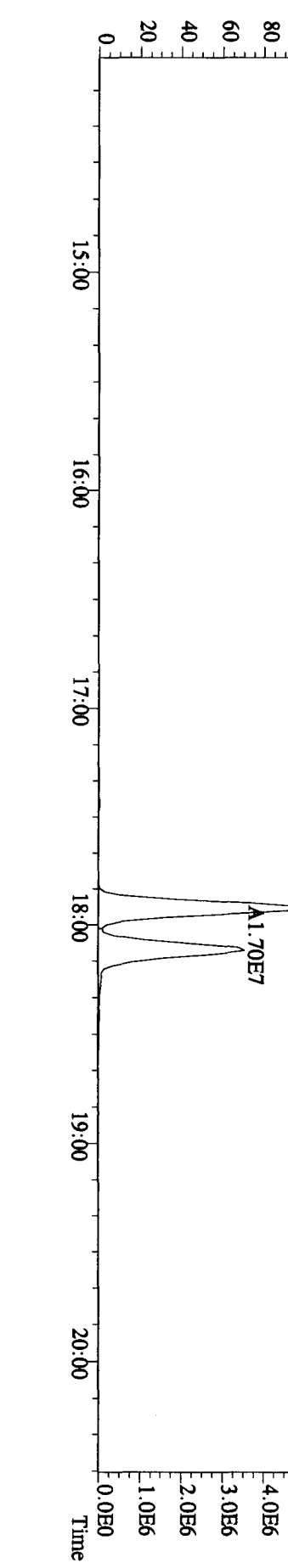
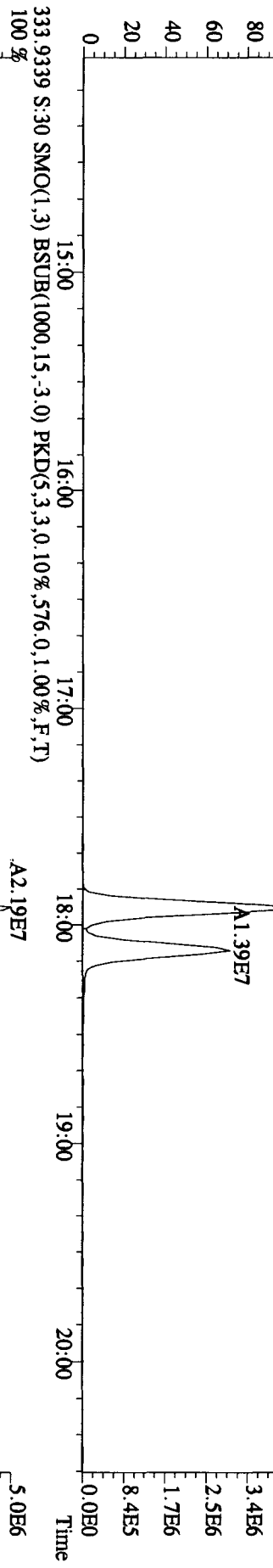
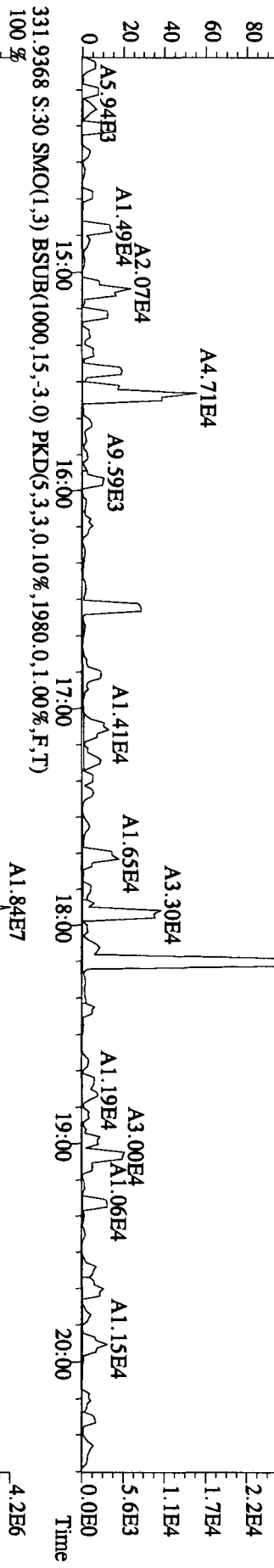
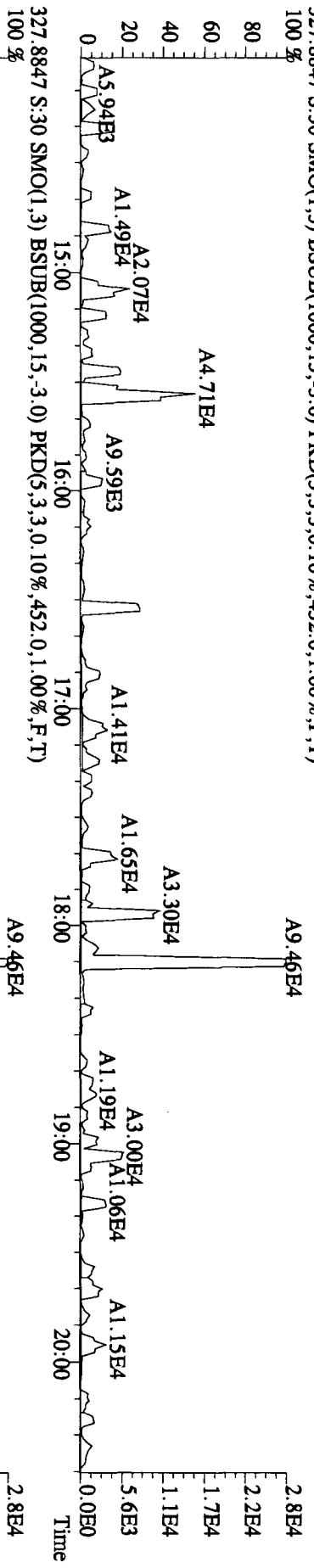
317.9389 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1472.0,1.00%,F,T)
 100%



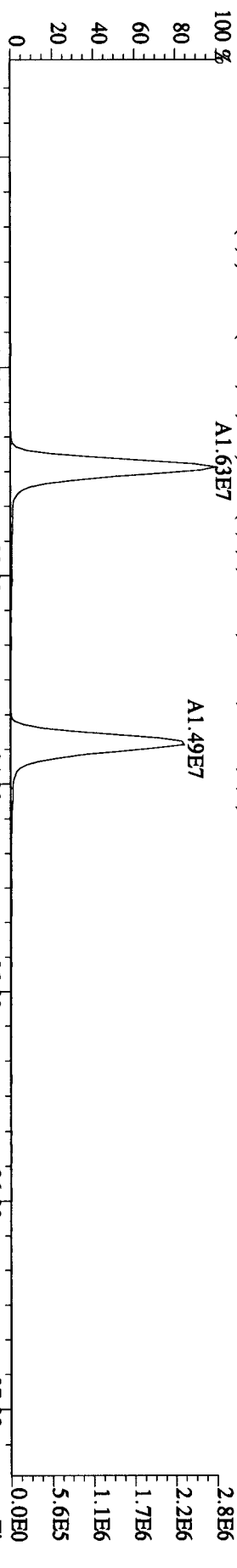
File: 02N010A1.D5 #1-382 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
Sample#30 Text:L84XJ-1-AC :G0J260480-31CS Exp:DIOXINRES
319.8965 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,760,0,1,00%,F,T)
100%



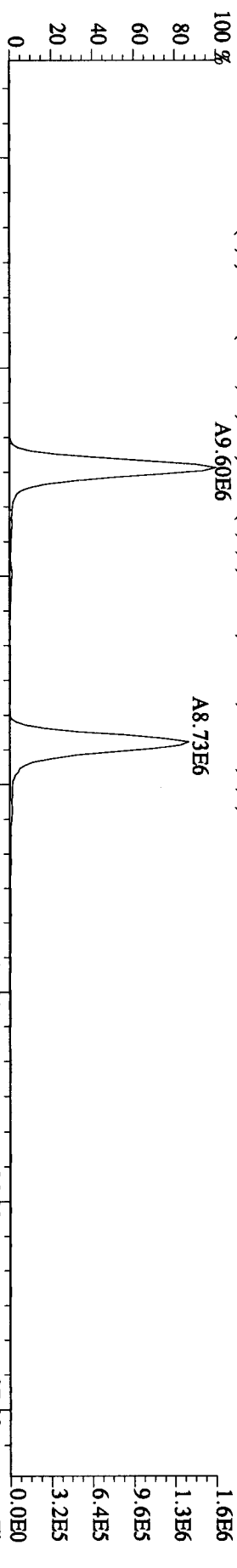
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 11:18:14 GC: EI+ Voltage: SIR 70SE
 Sample#30 Text:L84XJ-1-AC :G01260480-3LCS Exp:DIOXINRES
 327.8847 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,452.0,1.00%,F,T)



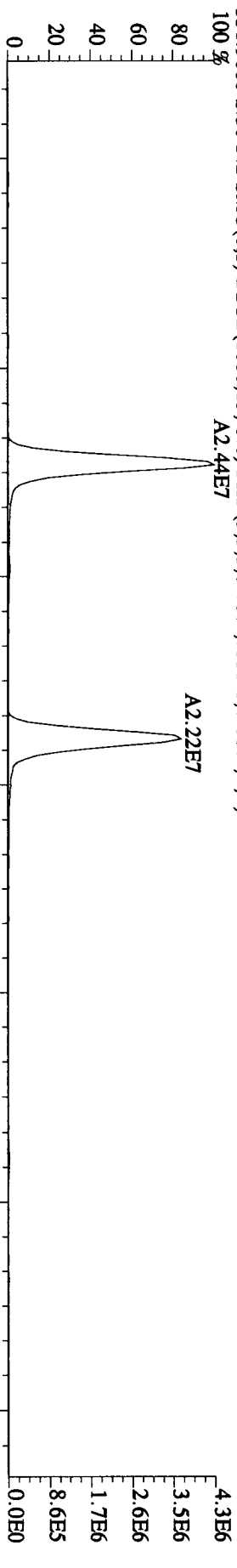
File:02NO10A1D5 #1-423 Acq: 3-NOV-2010 11:18:14 GC EI + Voltage SIR 70SE
 Sample#30 Text:L84XJ1-AC :G0J260480-3LCS Exp:DIOXINRES
 339.8597 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904,0.1,0.00%,F,T)
 100 % A1.63E7



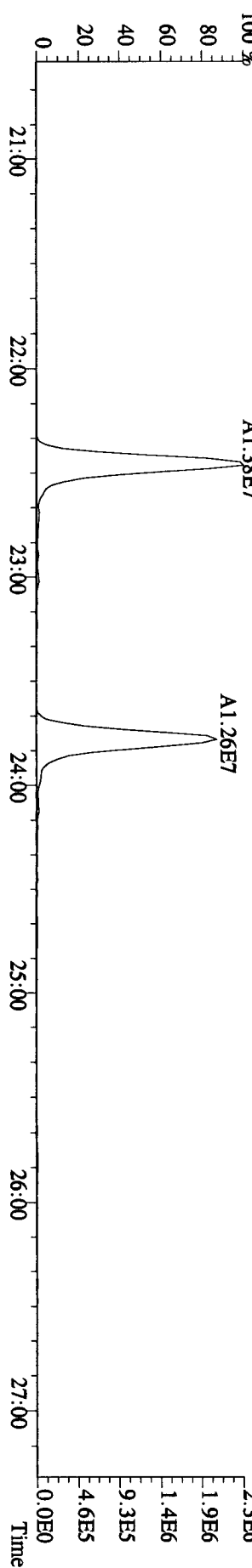
341.8567 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596,0.1,0.00%,F,T)
 100 % A9.60E6



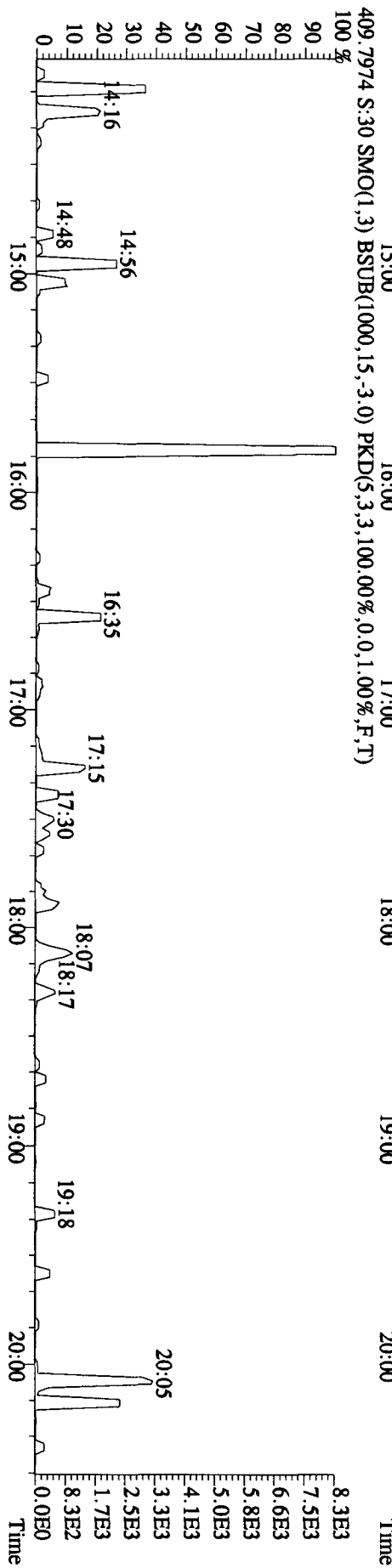
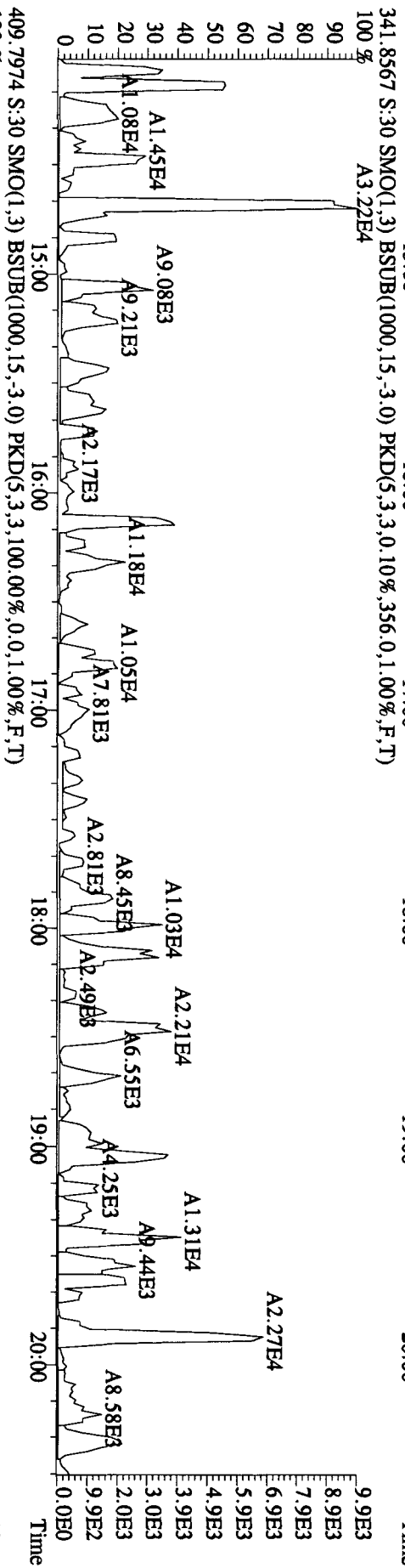
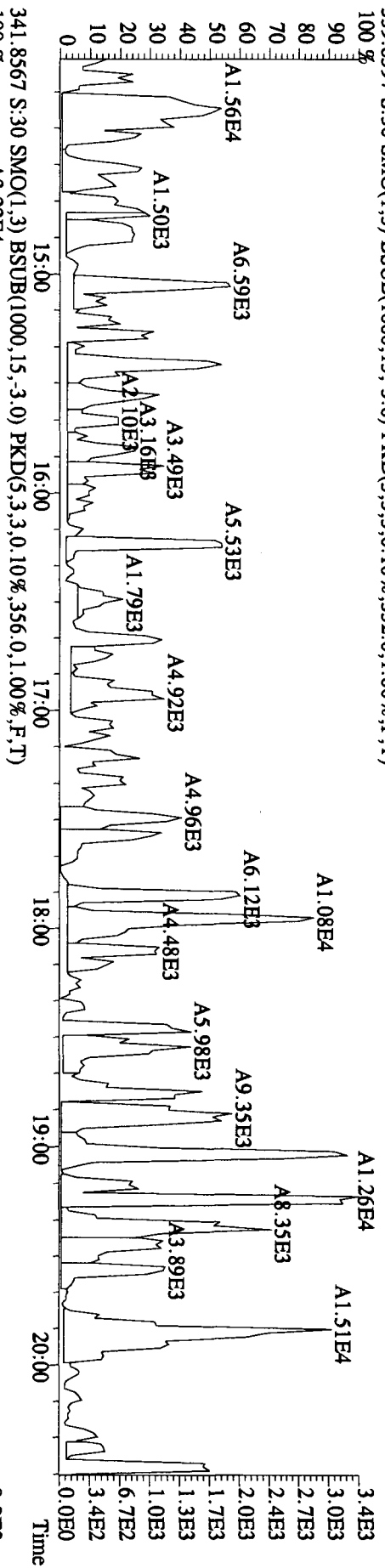
351.9000 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2352,0.1,0.00%,F,T)
 100 % A2.44E7



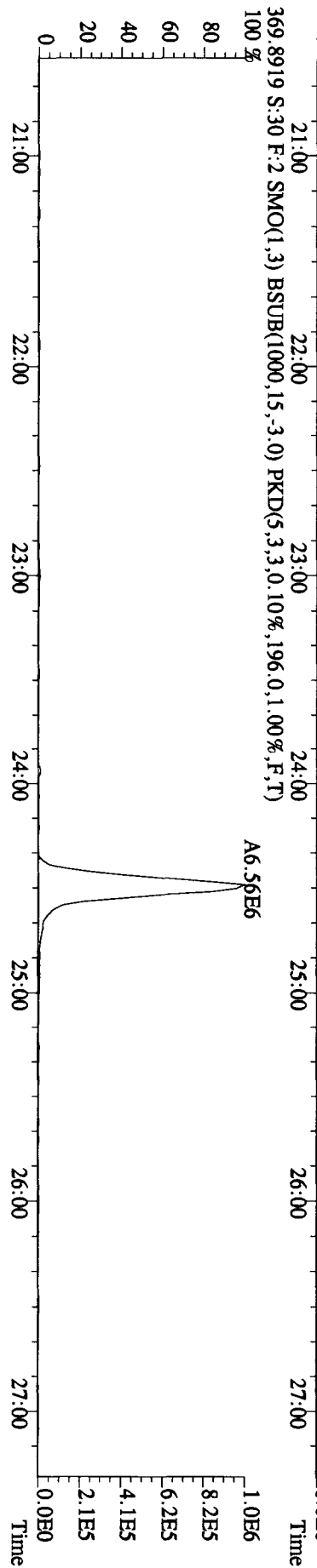
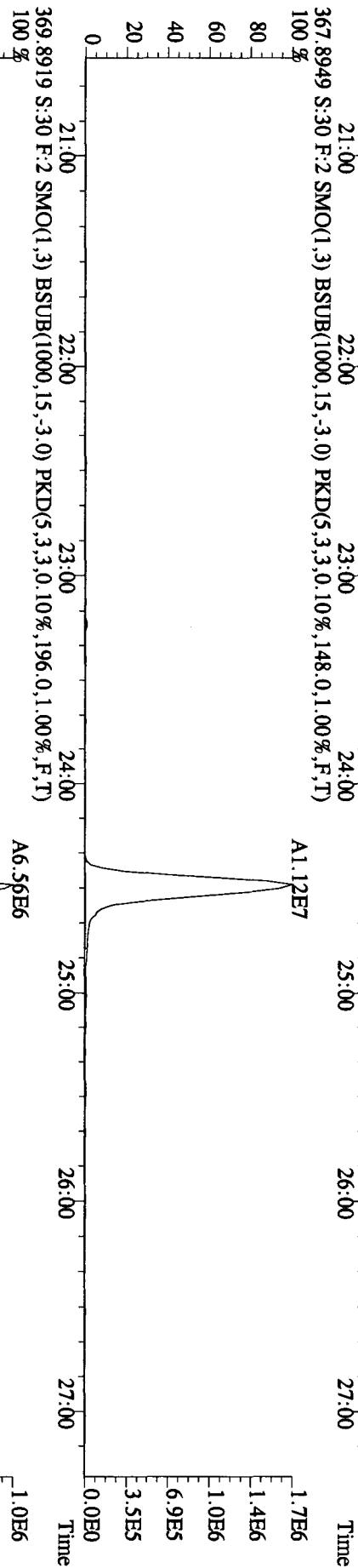
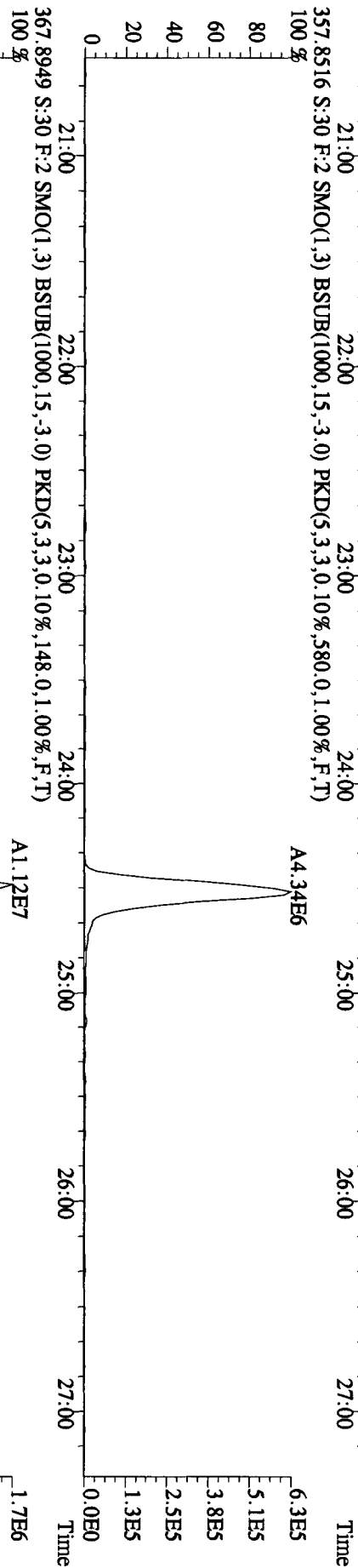
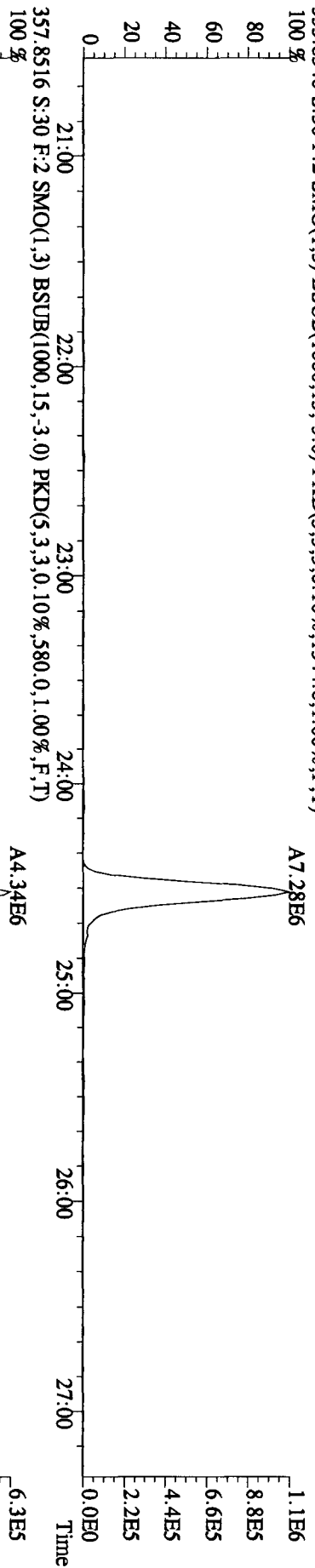
353.8970 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,280,0.1,0.00%,F,T)
 100 % A1.38E7



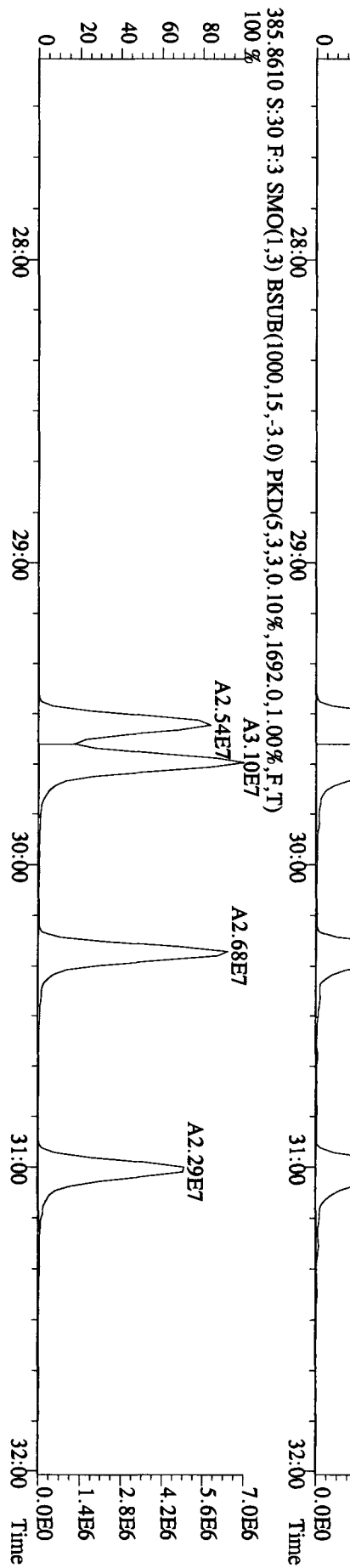
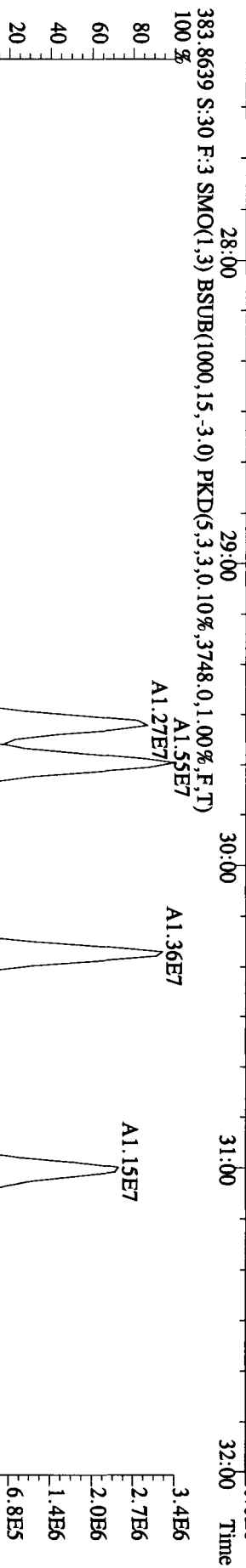
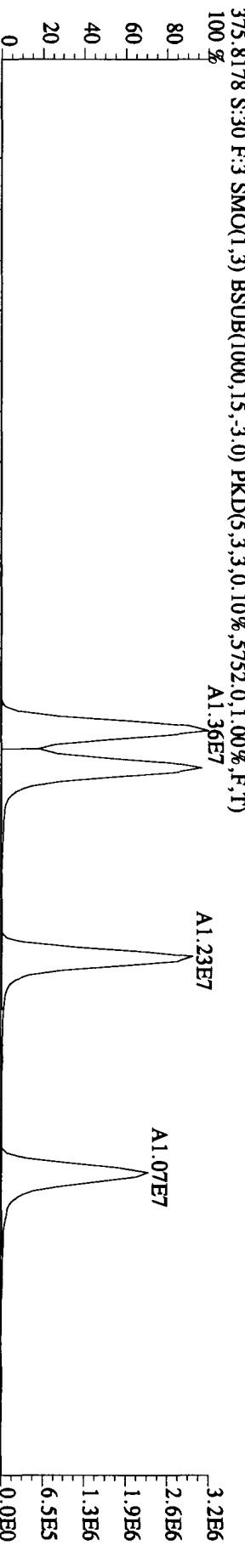
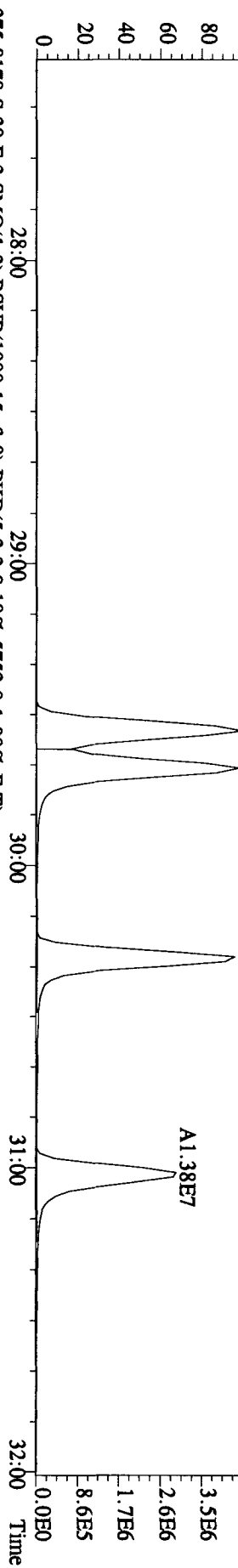
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage: SIR 70SE
 Sample#30 Text: L84XI-1-AC :G01260480-3LCS Exp: DIOXINRES
 339.8597 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,352.0,1.00%,F,T)



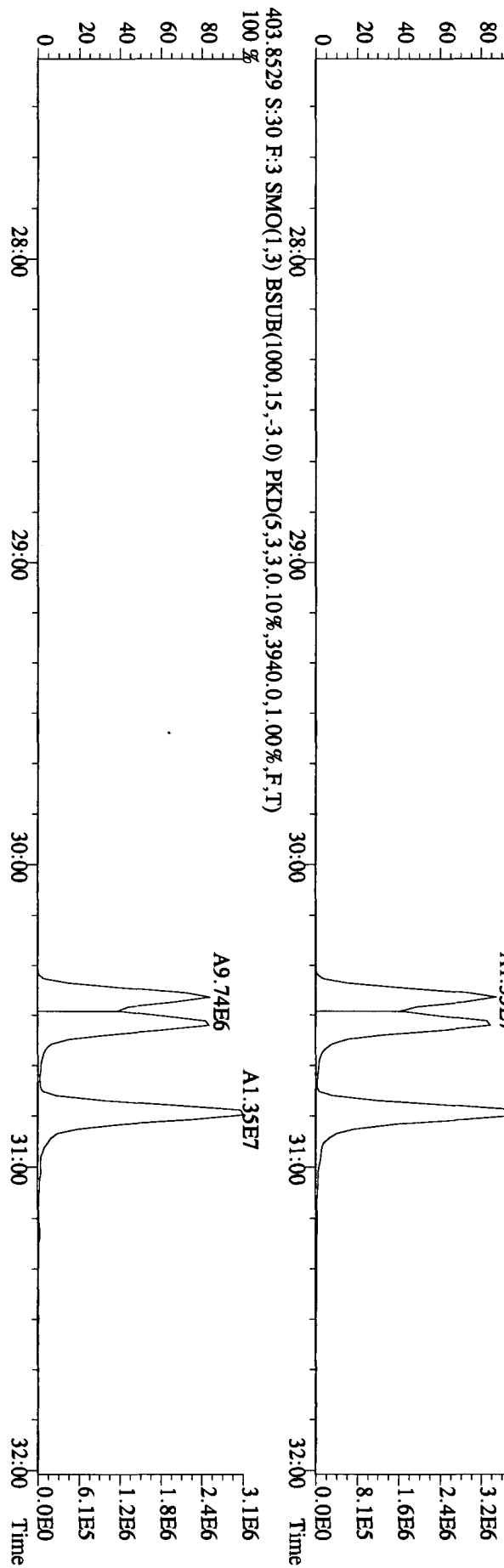
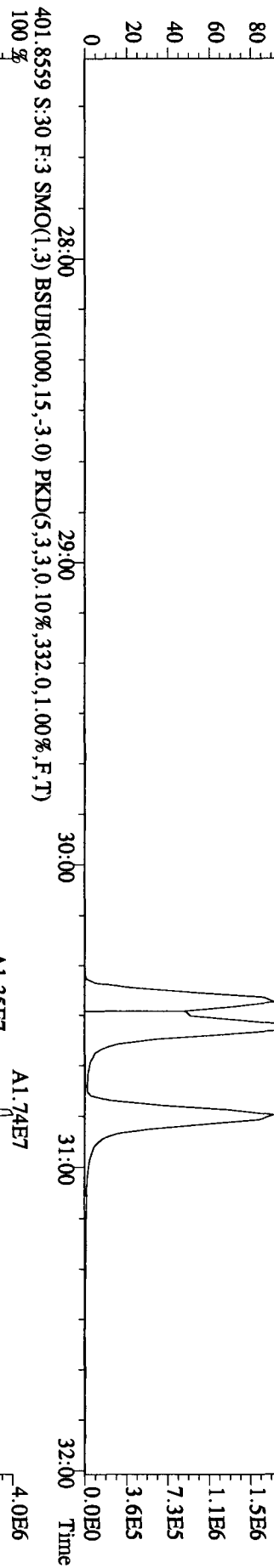
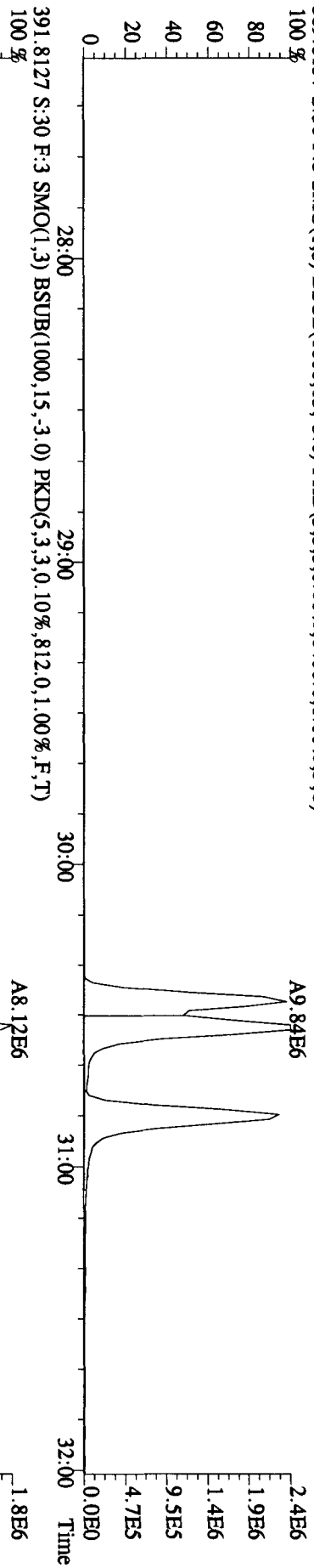
File: 02N010A1D5 #1-423 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
Sample#30 Text: L84XI-1-AC :G0J260480-3LCS Exp: DIOXINRES
355.8546 S:30 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1344,0,1.00%,F,T)



File: 02N010A1ID5 #1-301 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
 Sample#30 Text:L84XI-1-AC :G0J260480-31CS Exp:DIOXINRES
 373, 8208 S:30 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1748,0,1,00%,F,T)
 100%



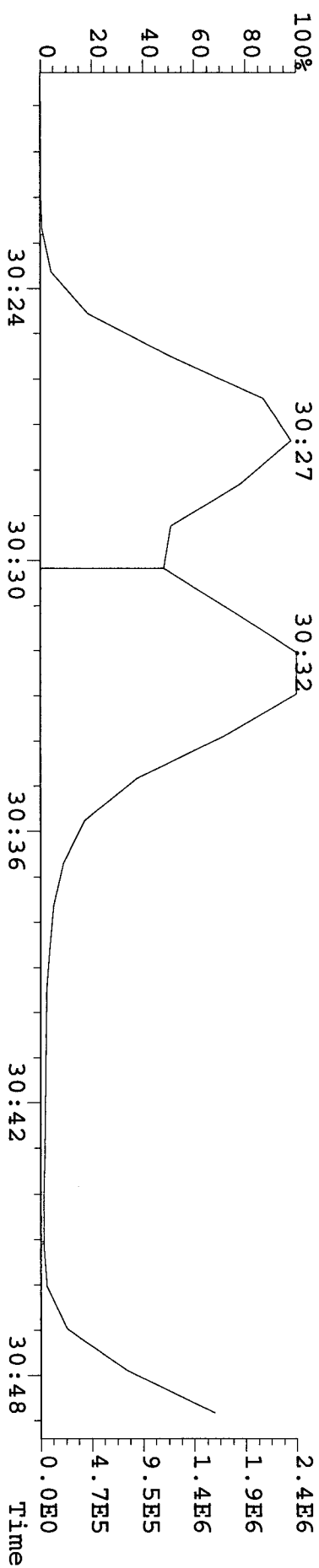
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
 Sample#30 Text:L84XI-1-AC :G0J260480-3LCS Exp:DIOXINRES
 389.8157 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)
 100%



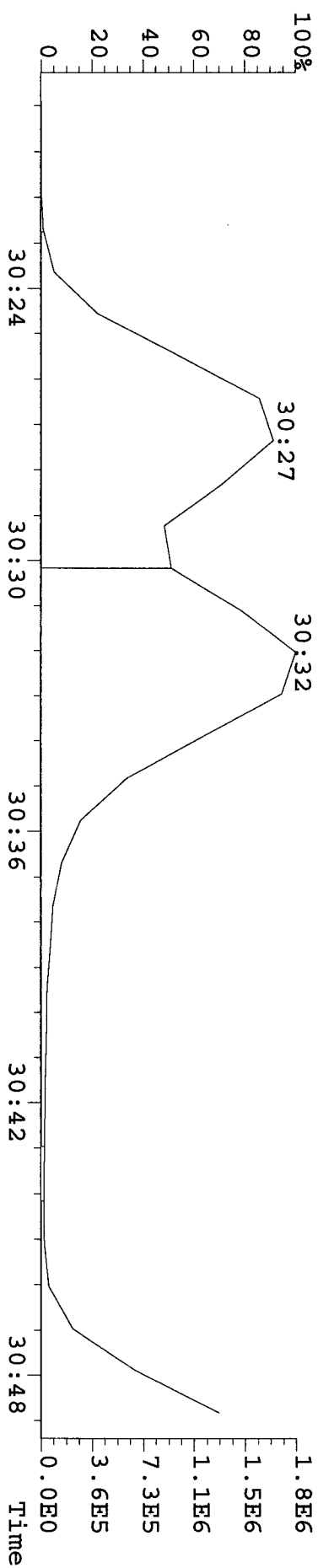
File: 02N010A1D5 #1-301 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE

Sample#30 Text: L84XJ-1-AC : G0J260480-3L Exp: DIOXINRES

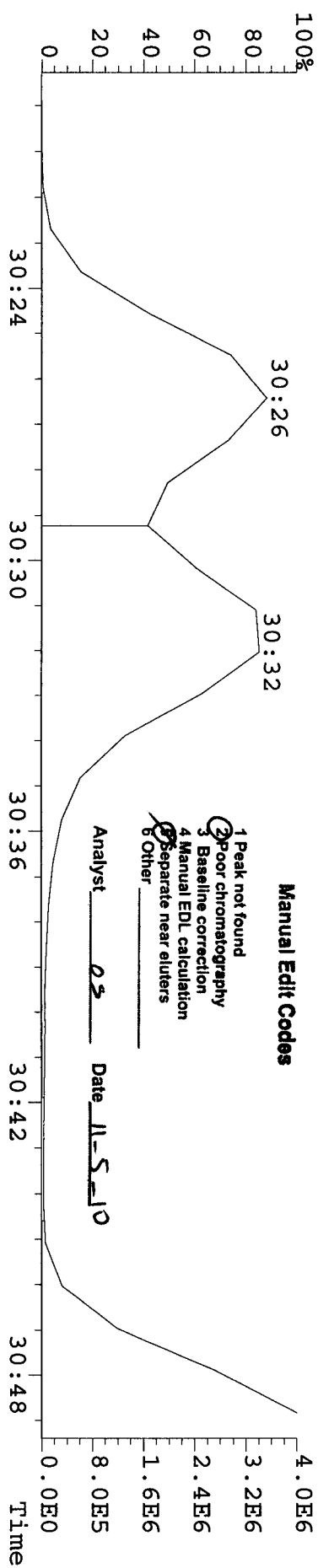
389.8157 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)



391.8127 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



401.8559 S:30 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,332.0,1.00%,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

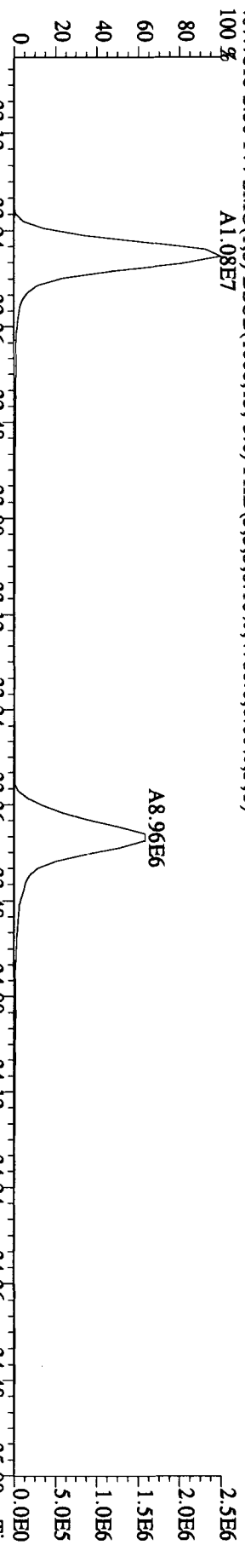
Analyst OS Date 11-5-10

File:02NO10A1D5 #1-202 Acq: 3-NOV-2010 11:18:14 GC EI + Voltage SIR 70SE

Sample#30 Text:L84XJ-1-AC :G0J260480-31CS Exp:DIOXINRES

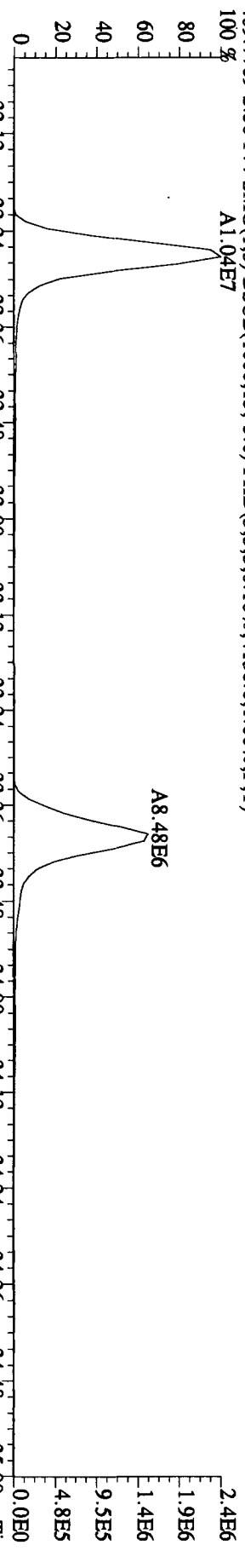
407.7818 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4780.0,1.00%,F,T)

100%



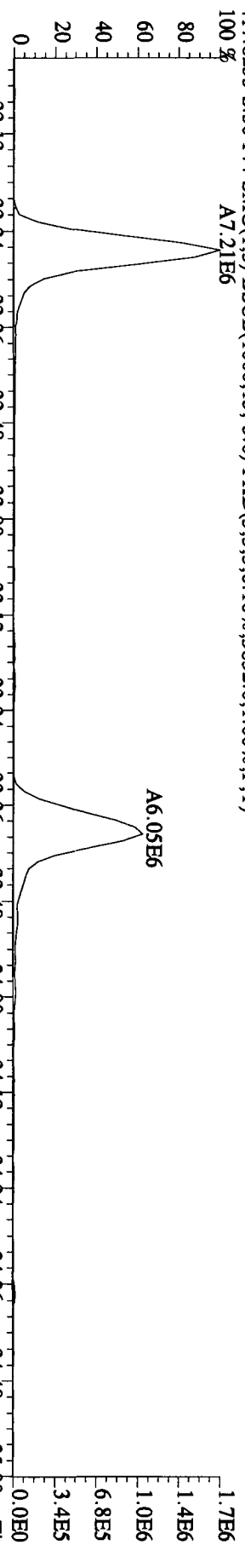
409.7789 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4136.0,1.00%,F,T)

100%



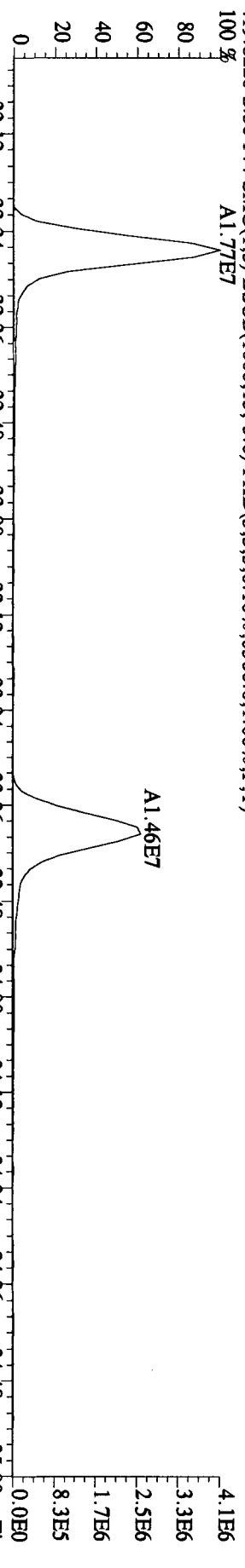
417.8253 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5832.0,1.00%,F,T)

100%

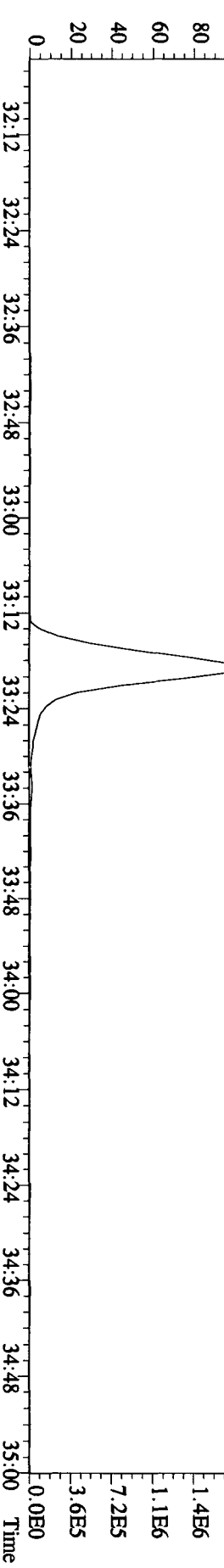
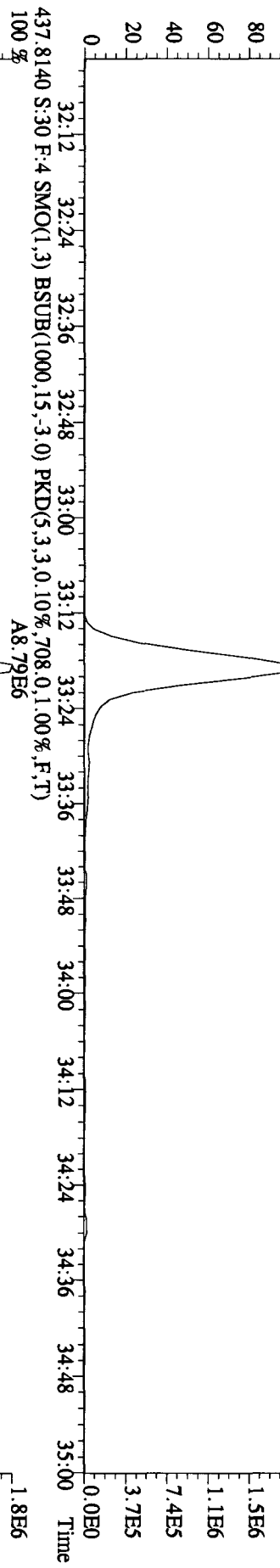
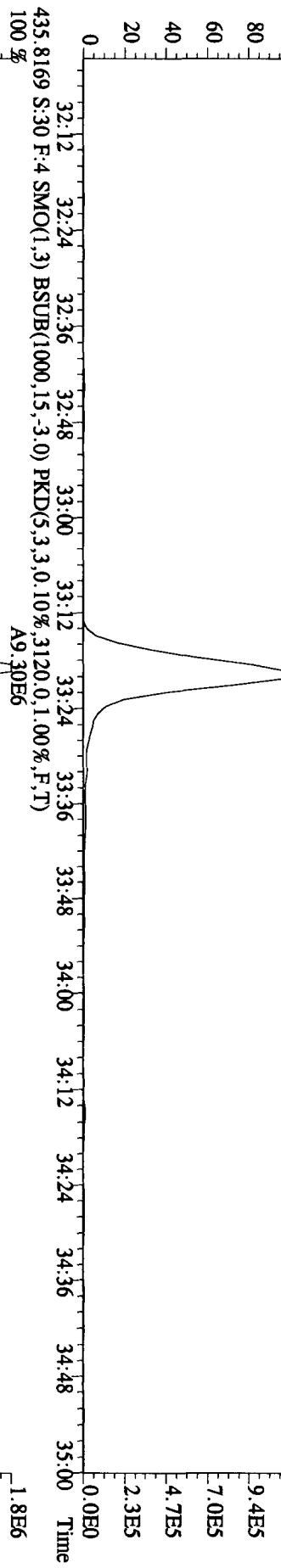
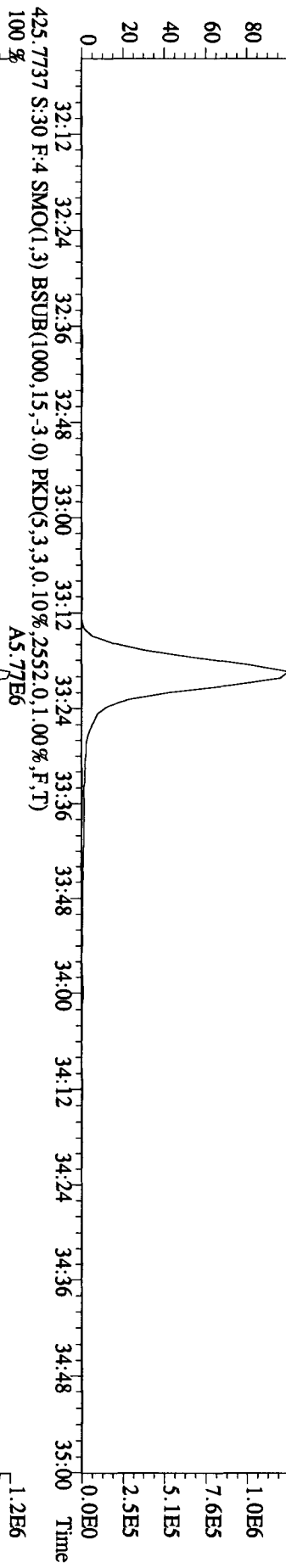


419.8220 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6560.0,1.00%,F,T)

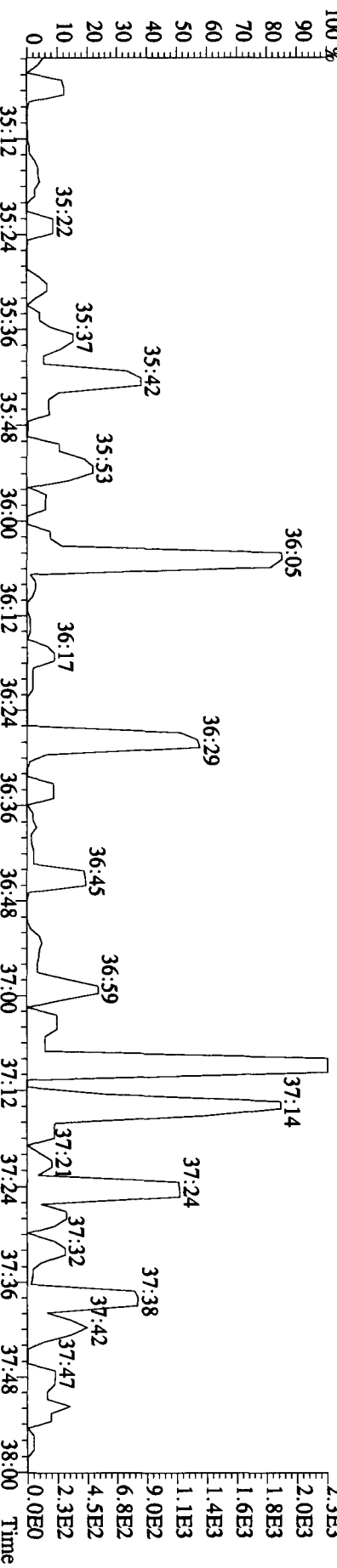
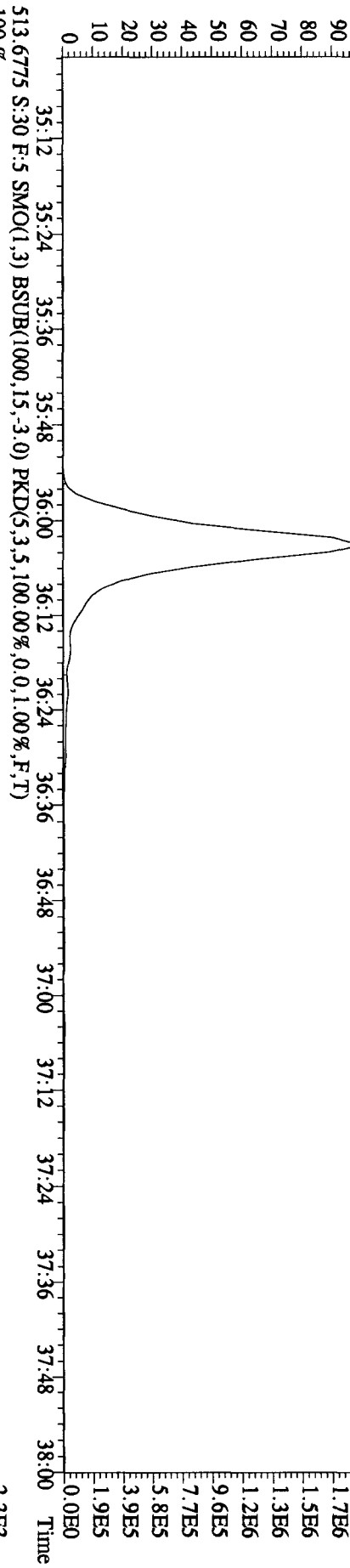
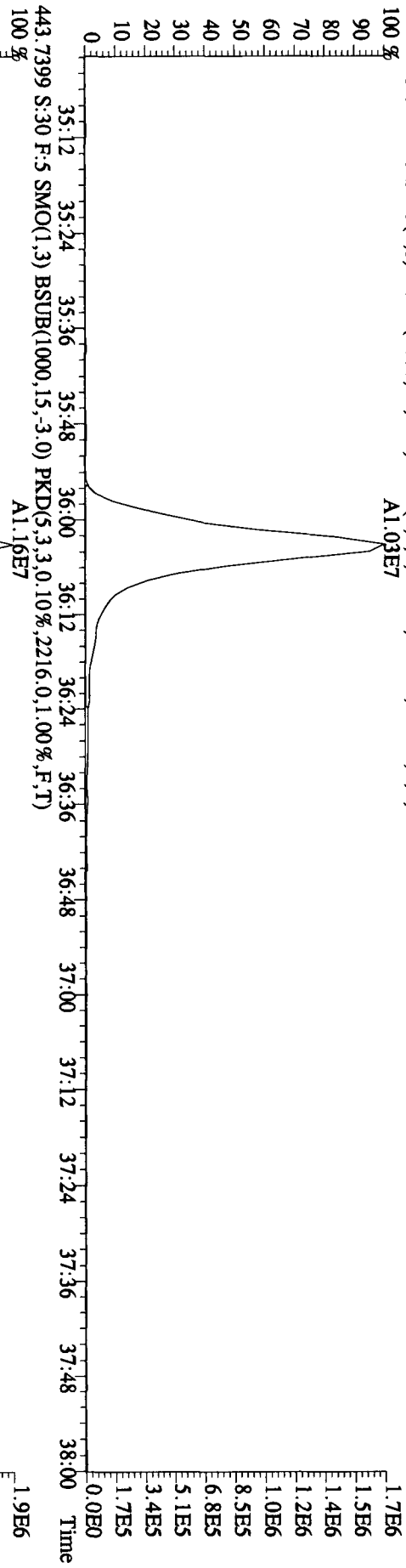
100%



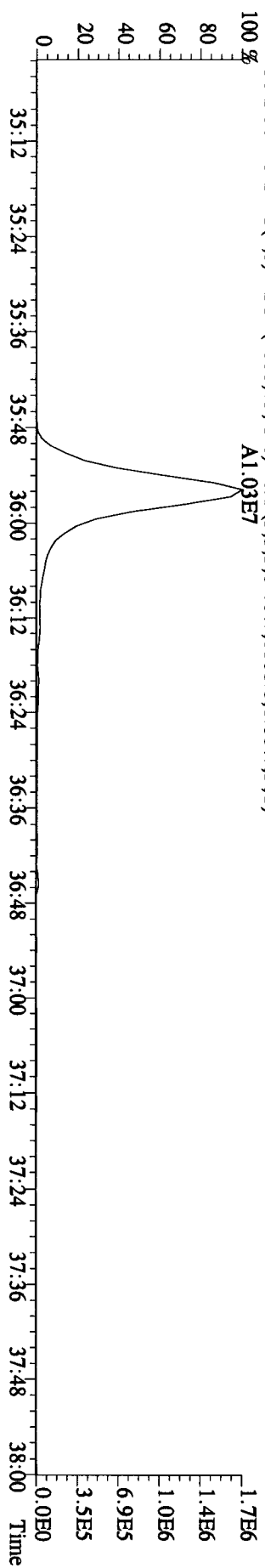
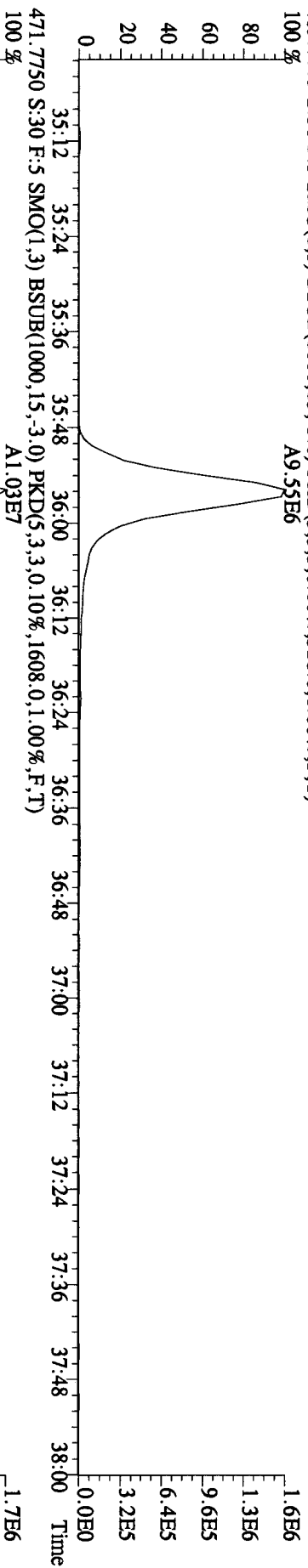
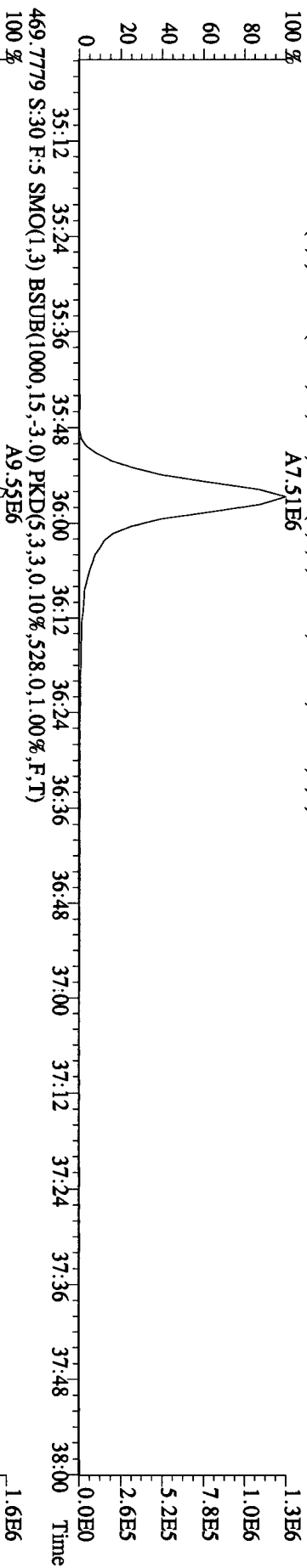
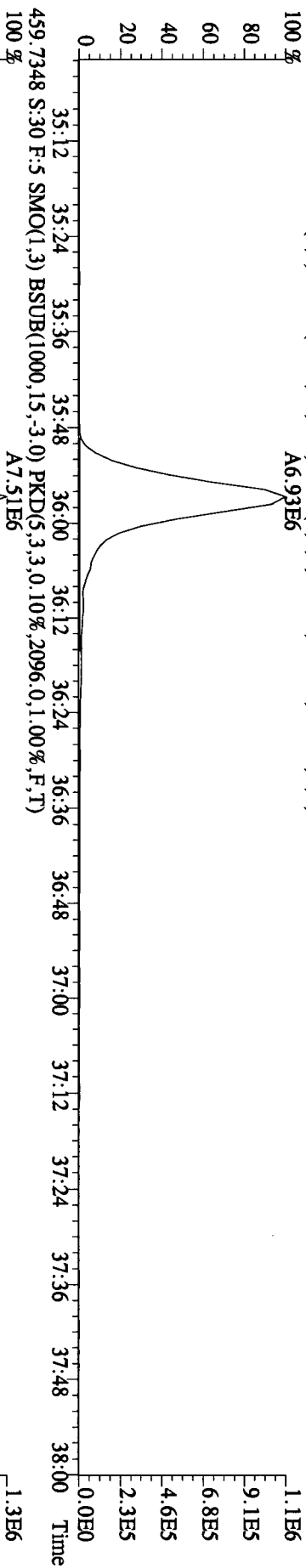
File:02N010AID5 #1-202 Acq: 3-NOV-2010 11:18:14 GC EI + Voltage SIR 70SE
 Sample#30 Text:L84XJ-1-AC :G01260480-3LCS Exp:DIOXINES
 423.7766 S:30 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T)
 100% A6.24E6

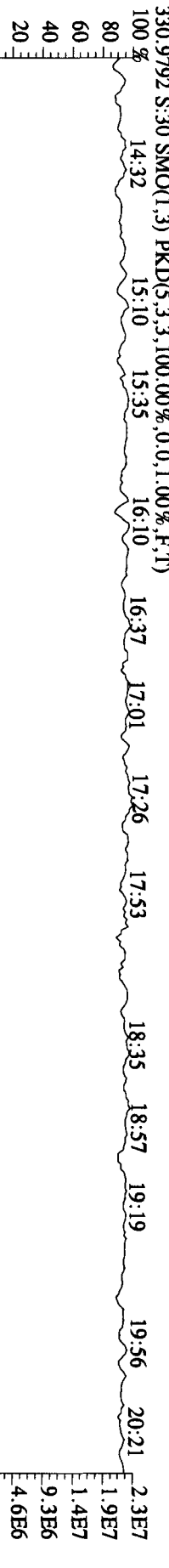
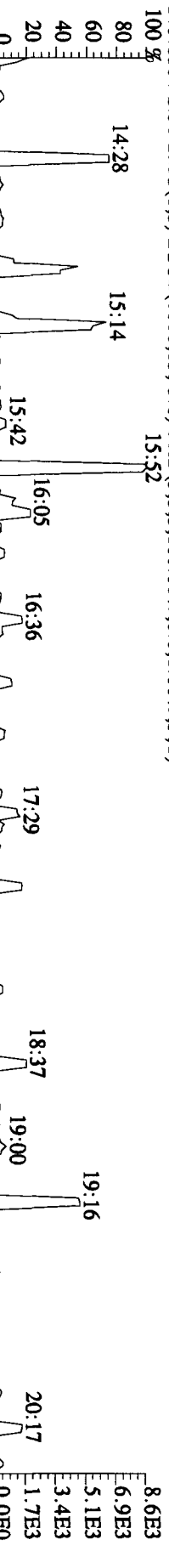
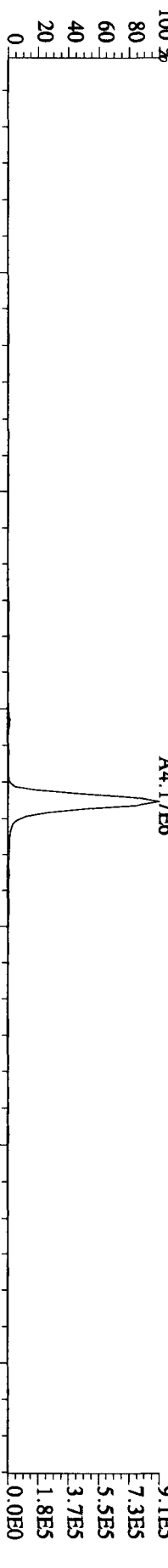
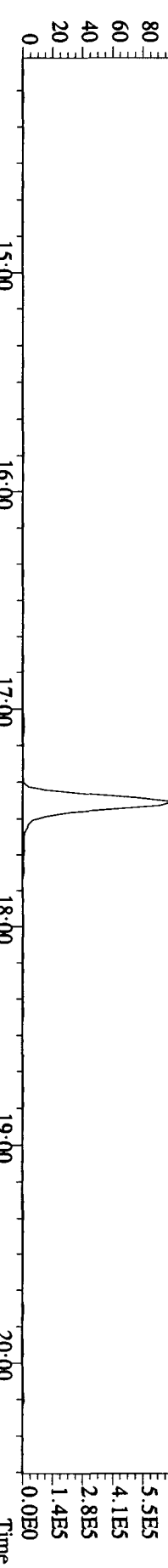
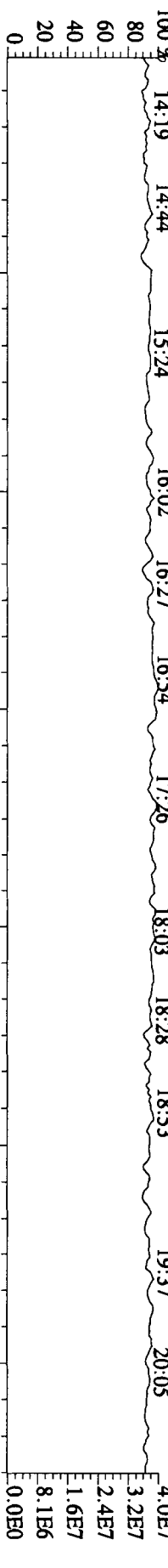


File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 11:18:14 GC EI + Voltage SIR 70SE
 Sample#30 Text: L84XJ1-1-AC :G0J260480-3LCS Exp: DIOXINRES
 441.7428 S:30 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980,0,1.00%,F,T)
 A1.03E7



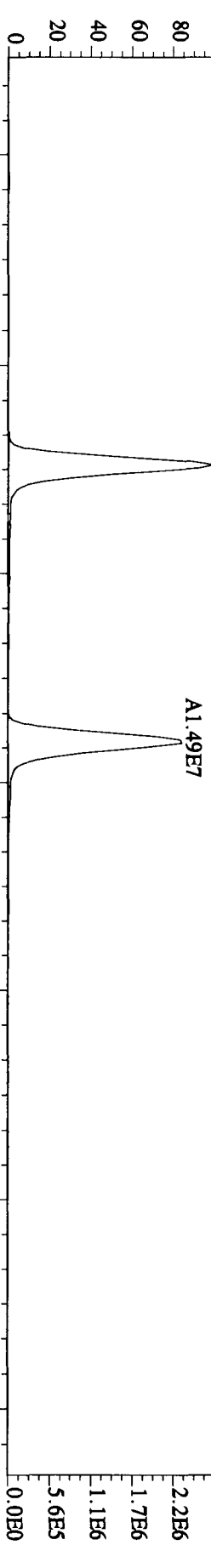
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
 Sample#30 Text:L84XI-1-AC :G01260480-31CS Exp:DIOXINRES
 457.7377 S:30 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468,0.1,00%,F,T)
 100 % A6.93E6



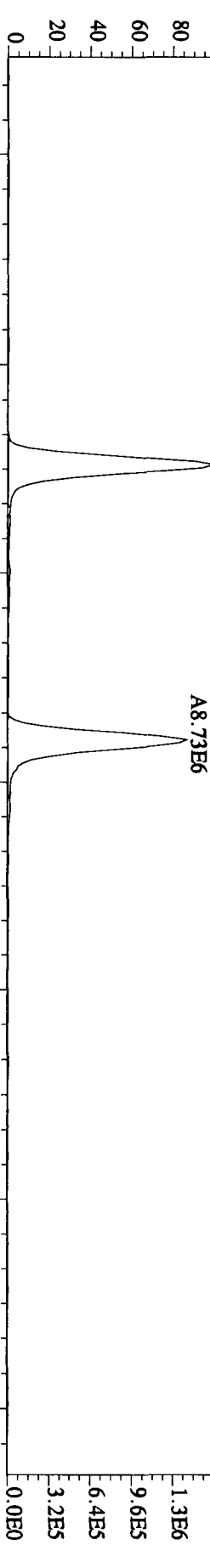




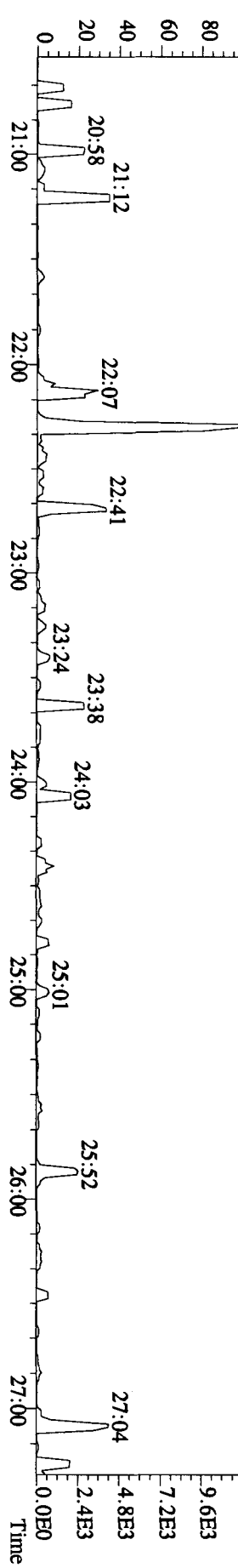
339.8597 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T)



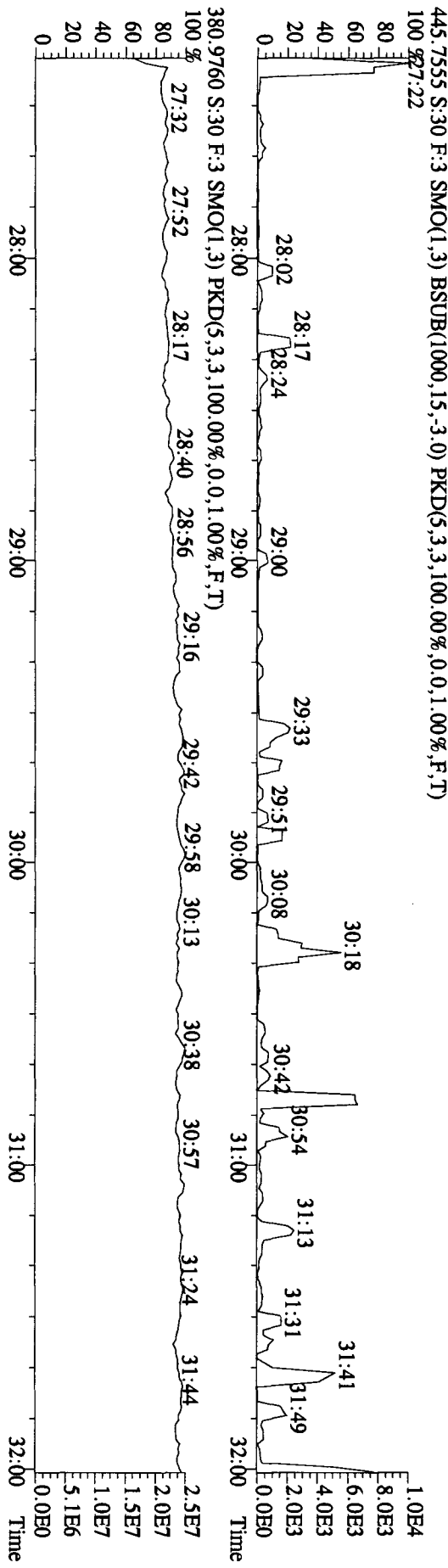
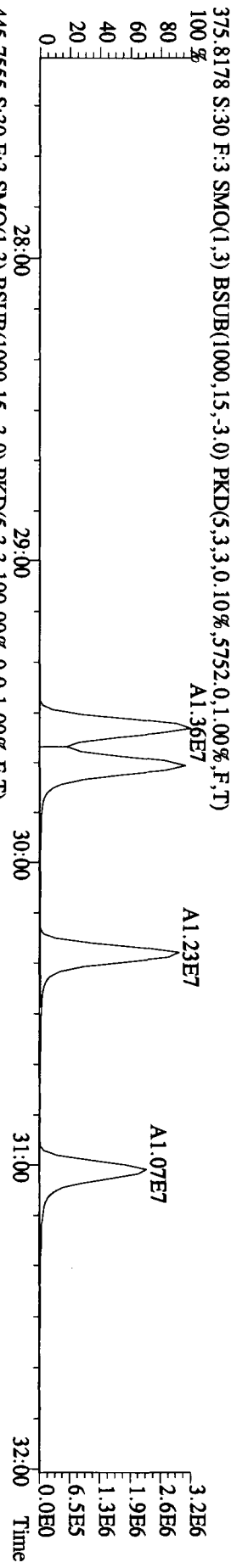
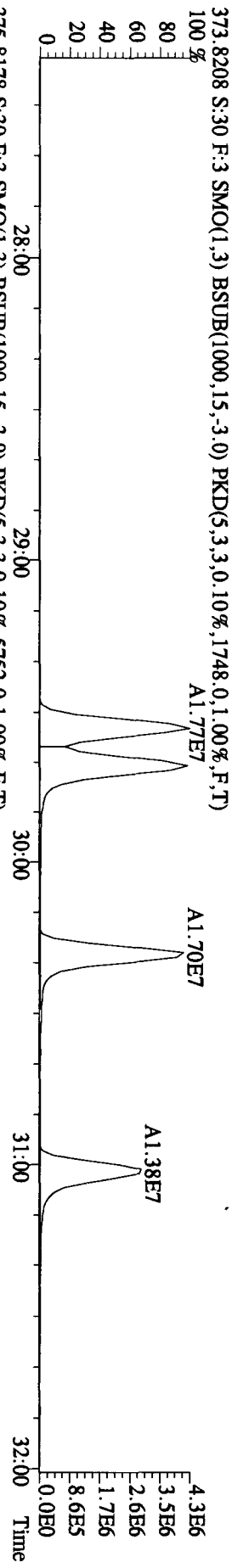
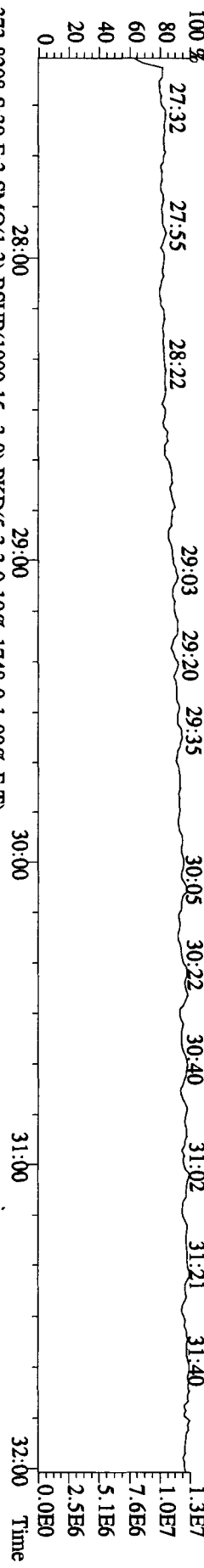
341.8567 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



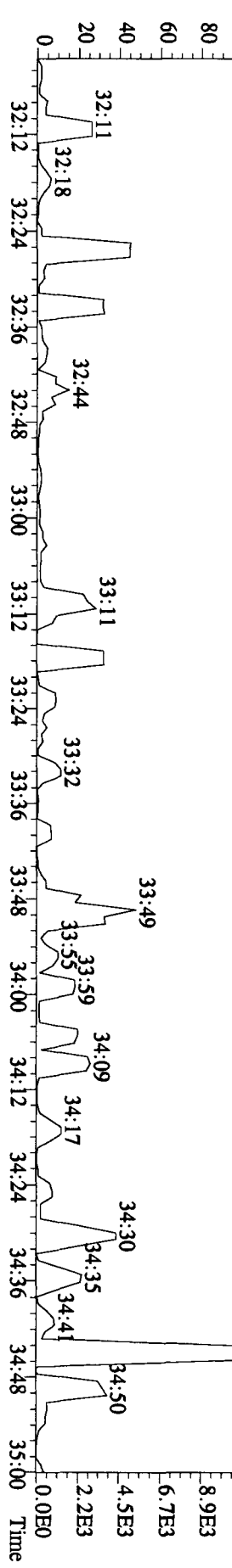
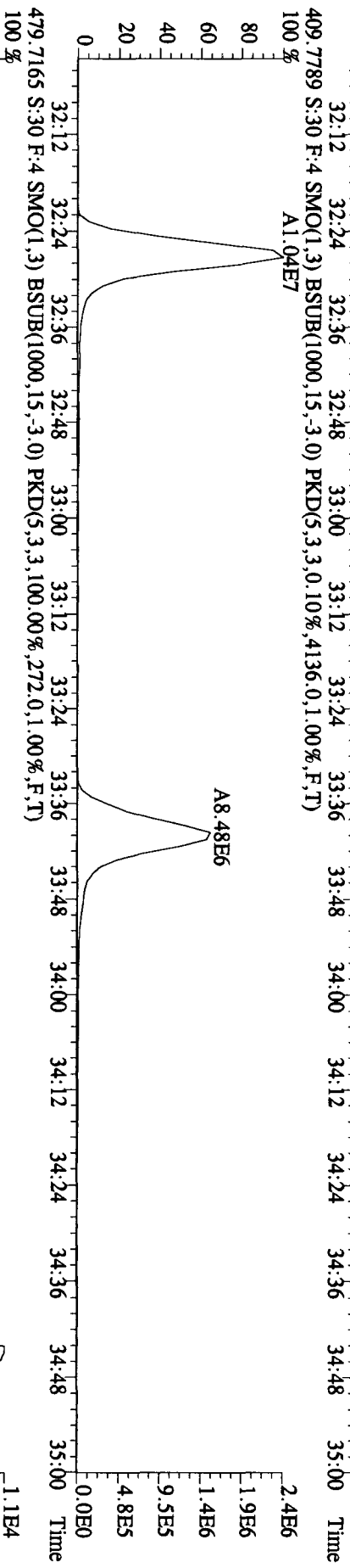
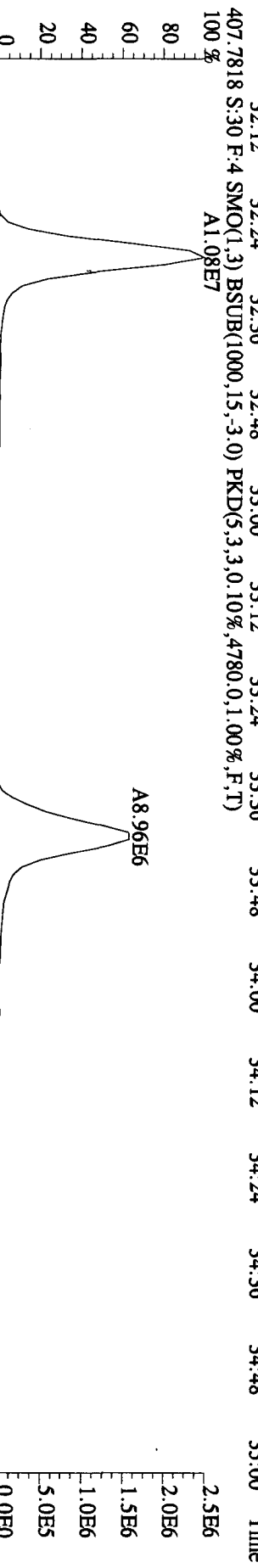
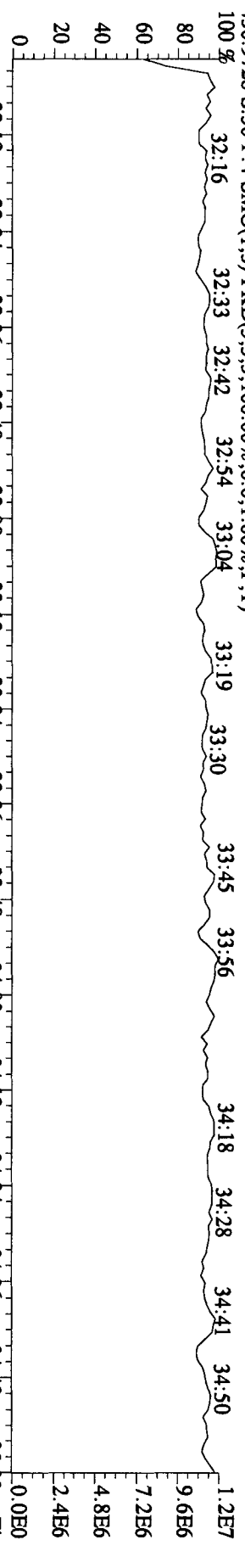
409.7974 S:30 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



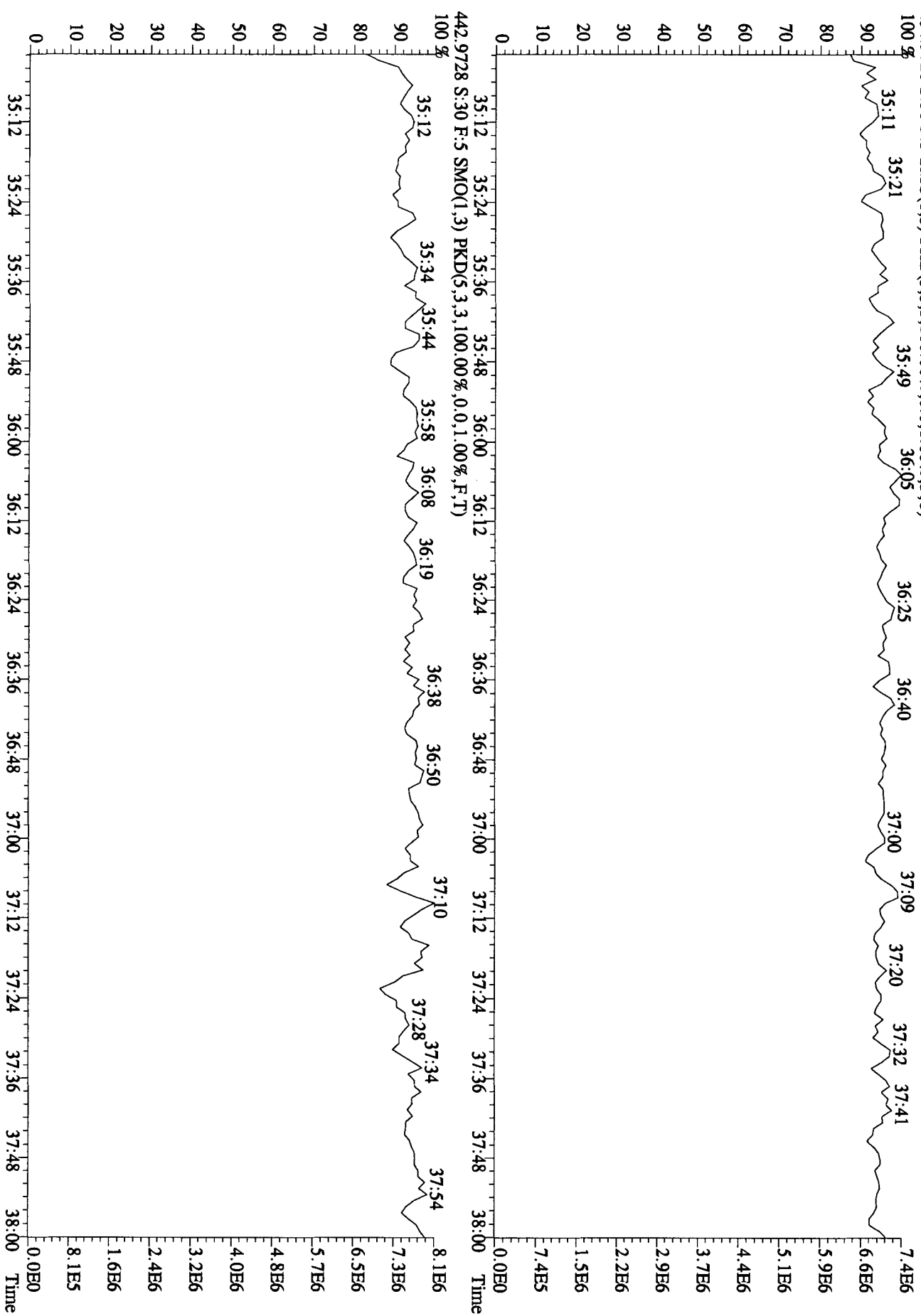
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 11:18:14 GC: EI+ Voltage: SIR 70SE
 Sample#30 Text:L84XJ-1-AC :G0J260480-3LCS Exp:DIOXINRES
 392.9760 S:30 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:30 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 02N010A1D5 #1-202 Acq: 3-NOV-2010 11:18:14 GC: EI+ Voltage: SIR 70SE
 Sample#30 Text: L84XI-1-AC : G01260480-31CS Exp: DIOXINRES
 430.9728 S:30 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 11:18:14 GC EI+ Voltage SIR 70SE
 Sample#30 Text:L84XJ-1-AC :G0J260480-31CS Exp:DIOXINRES
 454.9728 S:30 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Quantitation Summary TestAmerica West Sacramento

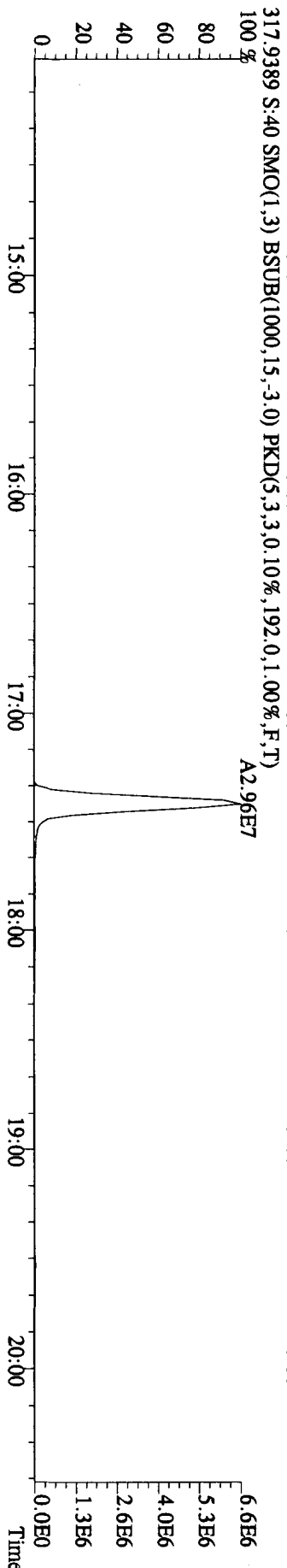
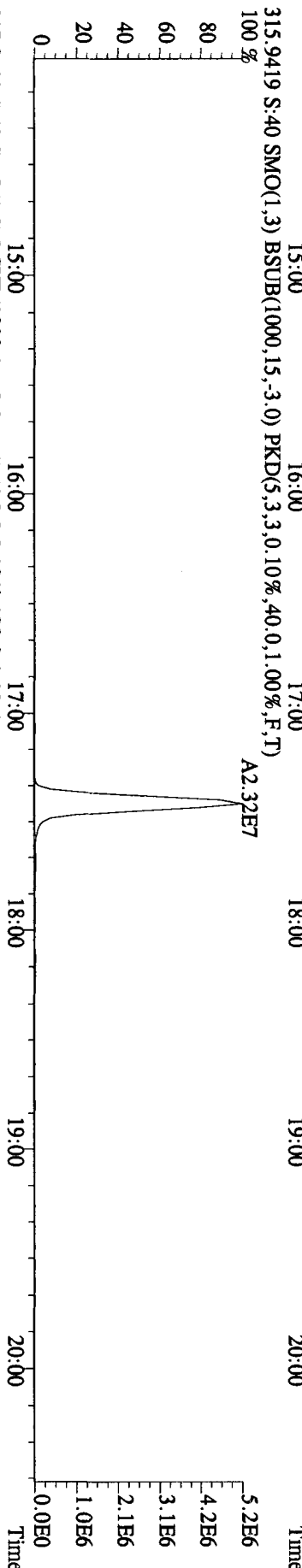
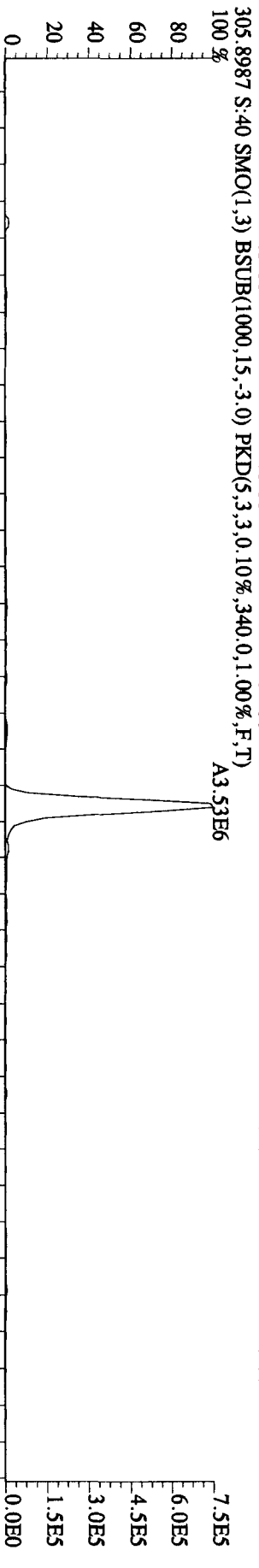
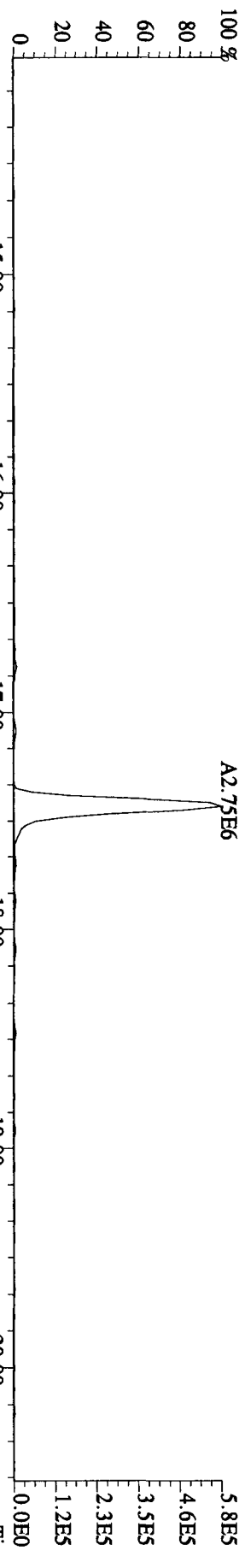
03-11-5-10

Run text: L84XJ-1-AD Sample text: L84XJ-1-AD :G0J260480-3DCS
 Run #18 Filename: 02NO10A1D5 S: 40 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 18:26:35 Processed: 3-NOV-10 19:38:27
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

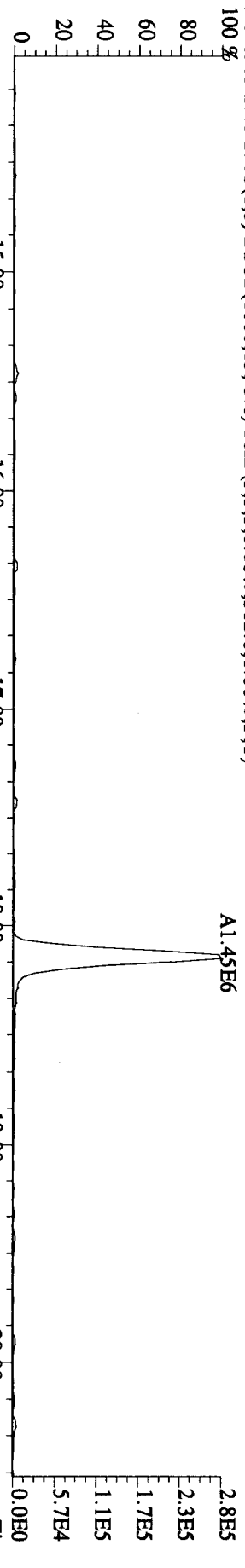
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	30364800	0.79 y	17:56	-	35.516	-	-	n
13C-2,3,7,8-TCDF	52751000	0.78 y	17:25	1.57	4413.447	0.253	110.3	n
2,3,7,8-TCDF	6287700	0.78 y	17:26	0.88	543.346	0.724	-	n
Total TCDF	6646450	0.70 y	14:15	0.88	574.347	0.724	-	n
13C-2,3,7,8-TCDD	27679400	0.79 y	18:07	0.99	3685.621	8.456	92.1	n
2,3,7,8-TCDD	3314640	0.77 y	18:09	0.94	509.493	1.991	-	n
Total TCDD	3492116	0.52 n	14:11	0.94	536.773	1.991	-	n
37Cl-2,3,7,8-TCDD	96637	1.00 y	18:07	1.18	11.865	0.870	0.7	n
13C-1,2,3,7,8-PeCDF	31286100	1.64 y	22:28	1.15	3570.092	0.530	89.3	n
1,2,3,7,8-PeCDF	22056290	1.68 y	22:29	1.03	2739.957	8.441	-	n
2,3,4,7,8-PeCDF	19991590	1.67 y	23:49	0.95	2699.073	9.173	-	n
Total F2 PeCDF	42457090	2.06 n	21:08	0.99	5491.980	8.792	-	n
Total F1 PeCDF	65166	0.36 n	14:14	0.99	8.432	1.467	-	n
13C-1,2,3,7,8-PeCDD	15376040	1.75 y	24:30	0.67	3036.698	0.000	75.9	n
1,2,3,7,8-PeCDD	9618270	1.66 y	24:32	0.96	2603.686	7.699	-	n
Total PeCDD	9712060	1.28 n	22:43	0.96	2629.075	7.699	-	n
13C-1,2,3,7,8,9-HxCDD	23482000	1.27 y	30:50	-	34.931	-	-	n
13C-1,2,3,4,7,8-HxCDF	26829390	0.51 y	29:32	1.15	3980.081	18.946	99.5	n
1,2,3,4,7,8-HxCDF	22577480	1.38 y	29:33	1.22	2761.267	7.439	-	n
1,2,3,6,7,8-HxCDF	24725800	1.29 y	29:41	1.41	2619.762	6.444	-	n
2,3,4,6,7,8-HxCDF	21982260	1.26 y	30:19	1.23	2659.948	7.360	-	n
1,2,3,7,8,9-HxCDF	18920440	1.27 y	31:02	1.08	2602.821	8.367	-	n
Total HxCDF	88500808	2.55 n	28:17	1.24	10679.375	7.340	-	n
13C-1,2,3,6,7,8-HxCDD	19968470	1.33 y	30:32	0.96	3547.471	1.229	88.7	n
1,2,3,4,7,8-HxCDD	11769190	1.29 y	30:27	0.89	2657.059	6.233	-	n
1,2,3,6,7,8-HxCDD	13454040	1.26 y	30:33	1.05	2569.396	5.273	-	n
1,2,3,7,8,9-HxCDD	13122160	1.30 y	30:51	1.00	2615.912	5.504	-	n
Total HxCDD	38472782	1.29 y	30:27	0.98	7868.397	5.642	-	n
13C-1,2,3,4,6,7,8-HpCDF	19872740	0.42 y	32:27	0.98	3439.116	11.998	86.0	n
1,2,3,4,6,7,8-HpCDF	16863720	1.04 y	32:27	1.33	2549.389	16.491	-	n
1,2,3,4,7,8,9-HpCDF	14083940	1.05 y	33:40	1.12	2533.297	19.621	-	n
Total HpCDF	31053976	1.04 y	32:27	1.23	5100.152	17.921	-	n
13C-1,2,3,4,6,7,8-HpCDD	15598310	1.07 y	33:19	0.82	3222.995	8.227	80.6	n
1,2,3,4,6,7,8-HpCDD	9971880	1.06 y	33:20	1.05	2439.753	10.682	-	n
Total HpCDD	10274783	0.64 n	32:44	1.05	2513.863	10.682	-	n
13C-OCDD	16842220	0.91 y	35:56	0.54	5295.136	5.837	66.2	n

OCDF	18589380	0.92	y	36:04	1.58	5588.943	16.637	-	n
OCDD	12224080	0.92	y	35:57	1.13	5124.253	29.517	-	n

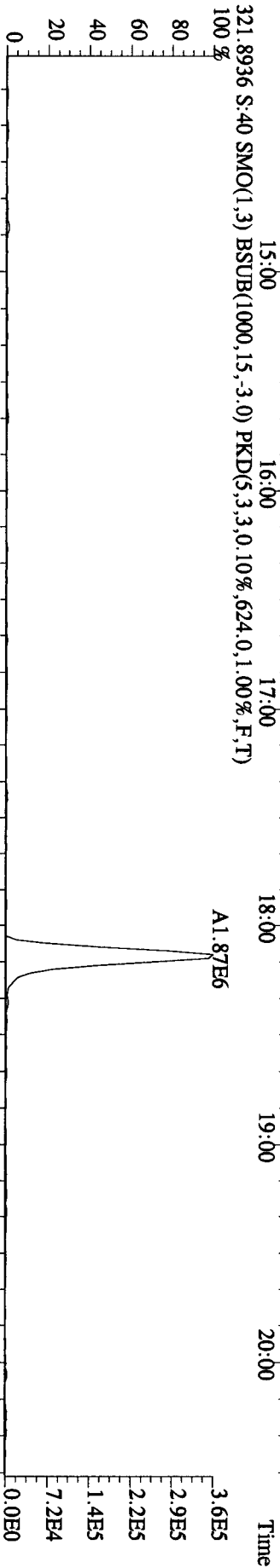
File:02N010A1D5 #1-383 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XJ-1-AD :G0J260480-3DCS Exp:DIOXINRES
 303.9016 S:40 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,284.0,1.00%,F,T)



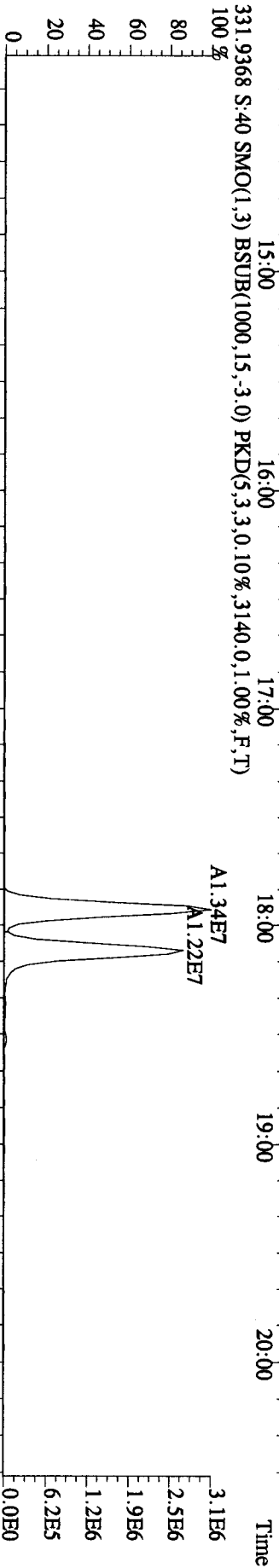
File:02NO10A1D5 #1-383 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:184X1-1-AD :G01260480-3DCS Exp:DIOXINRES
 319.8965 S:40 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,312,0,1,00%,F,T)
 100 %



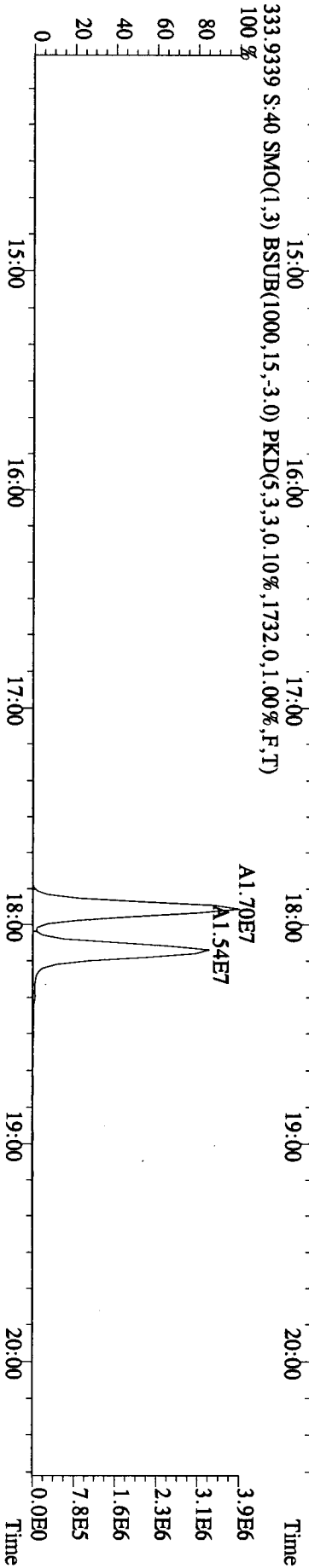
321.8936 S:40 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,624,0,1,00%,F,T)
 100 %



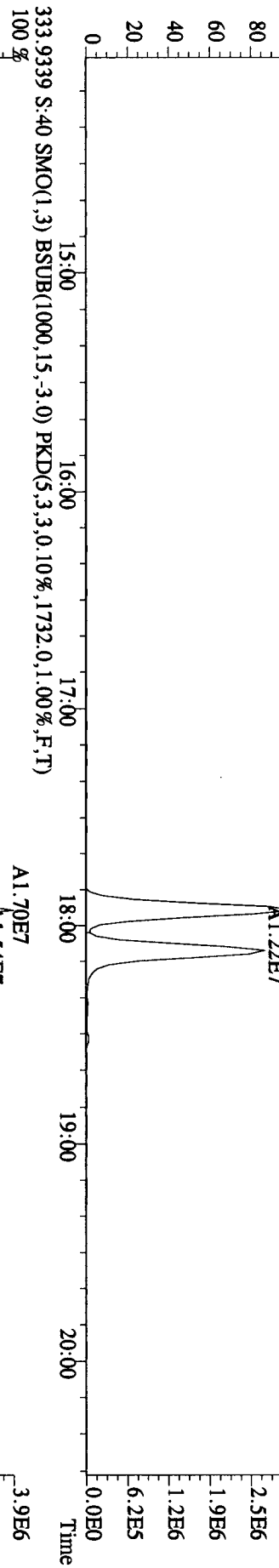
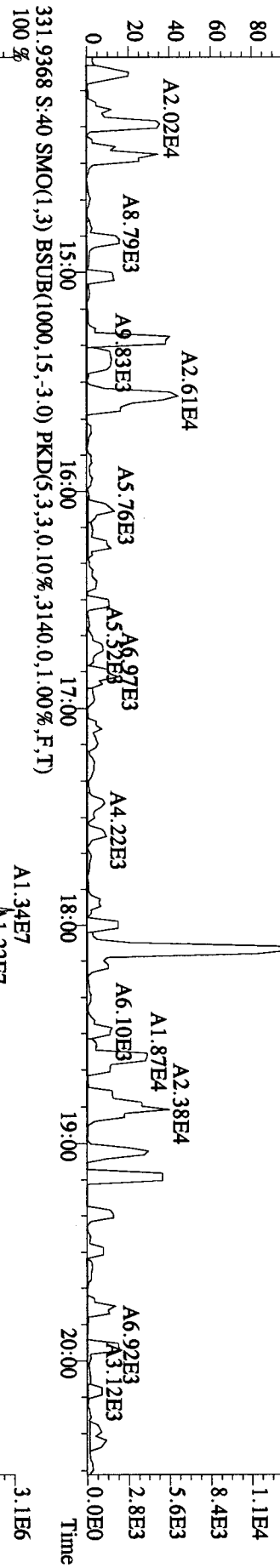
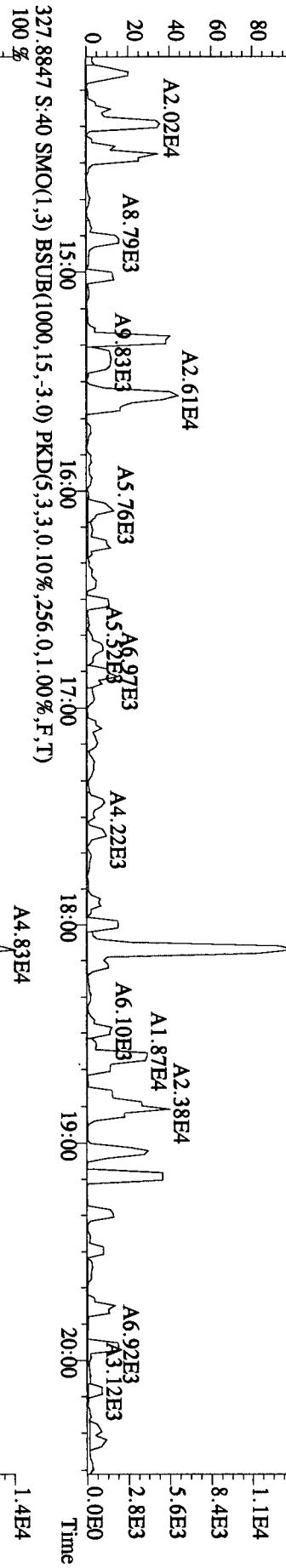
331.9368 S:40 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3140,0,1,00%,F,T)
 100 %



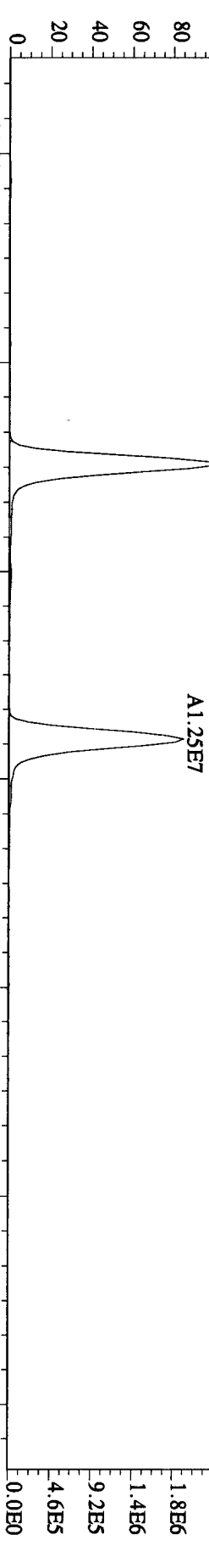
333.9339 S:40 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1732,0,1,00%,F,T)
 100 %



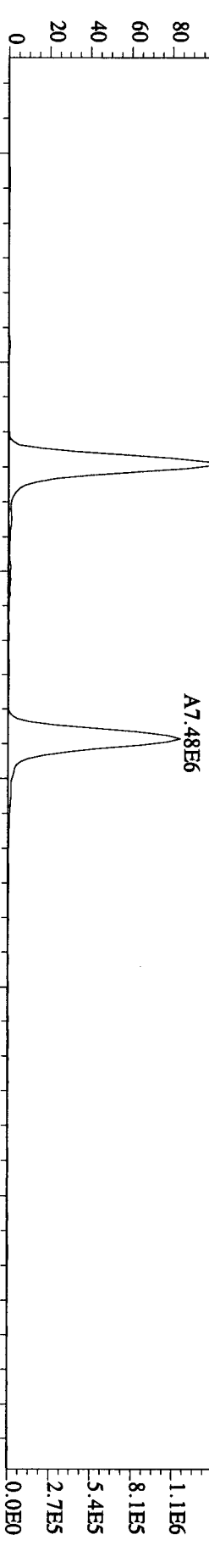
File:02NO10A1D5 #1-383 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XJ-1-AD :G01260480-3DCS Exp:DIOXINRES
 327.8847 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,256,0,1.00%,F,T)
 100 %



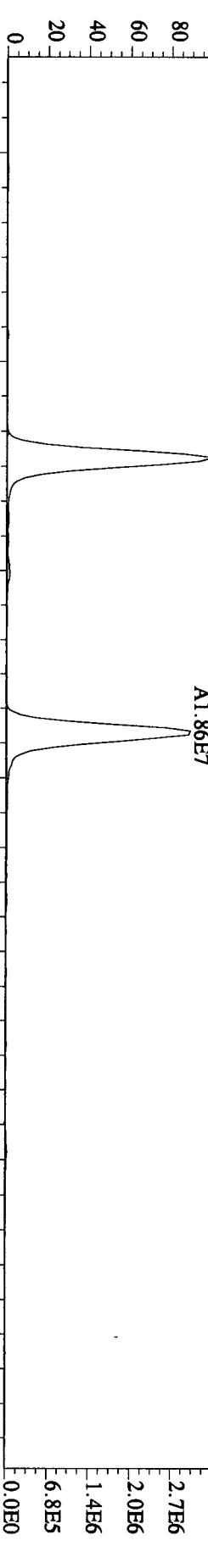
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XJ1-AD :G0J260480-3DCS Exp:DIOXINRES
 339.8597 S:40 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1824,0,1,00%,F,T)
 100 % A1.38E7



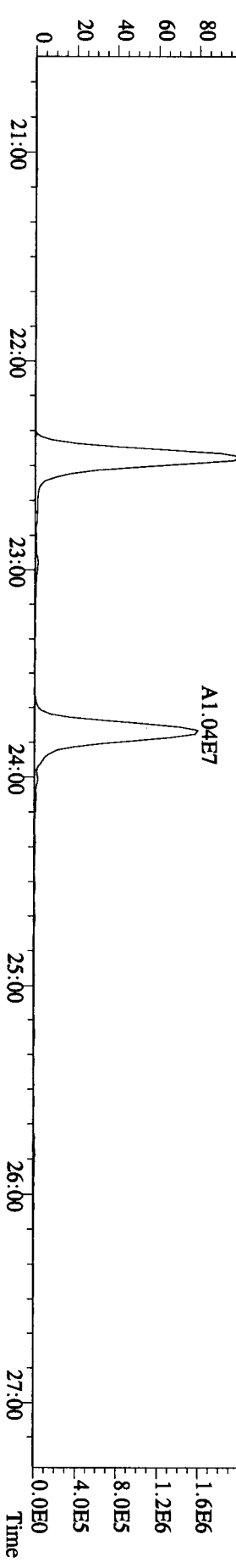
341.8567 S:40 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2060,0,1,00%,F,T)
 100 % A8.22E6



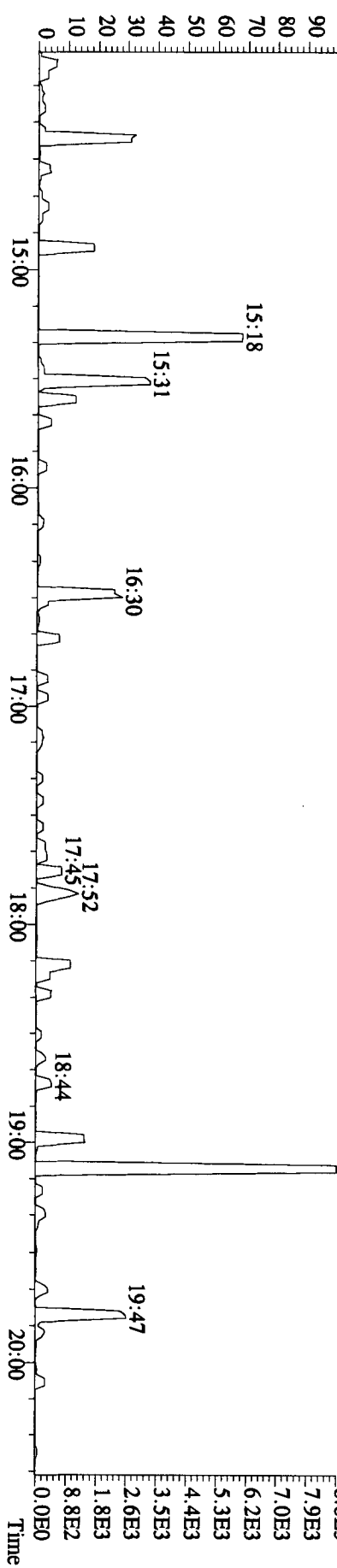
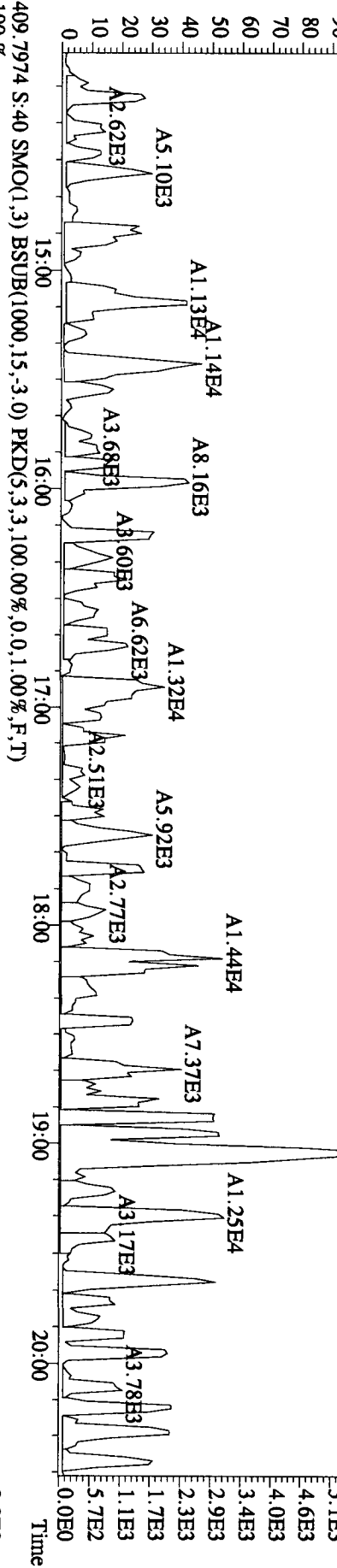
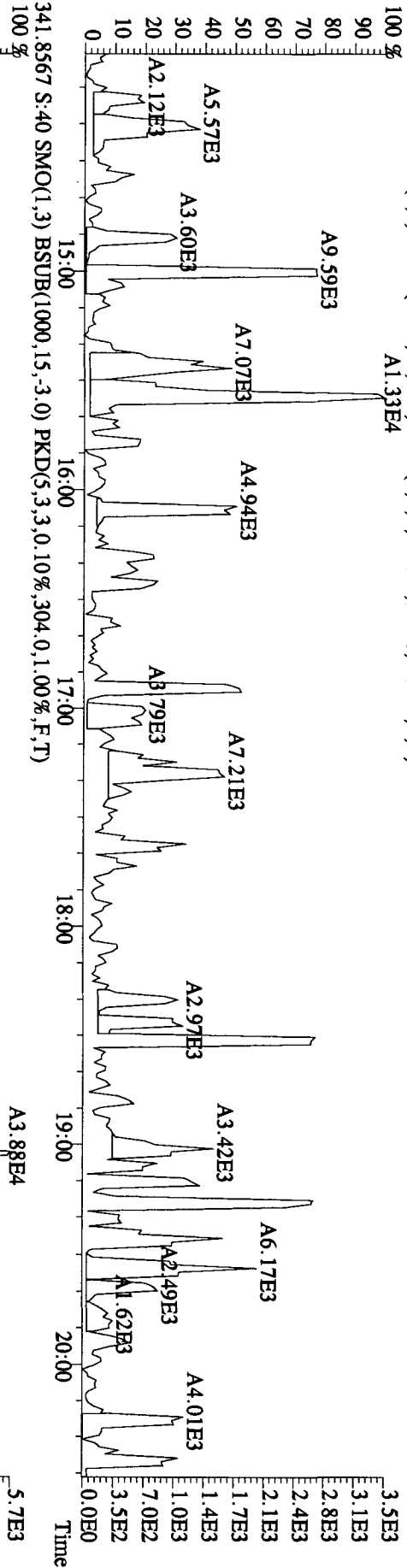
351.9000 S:40 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,116,0,1,00%,F,T)
 100 % A1.94E7



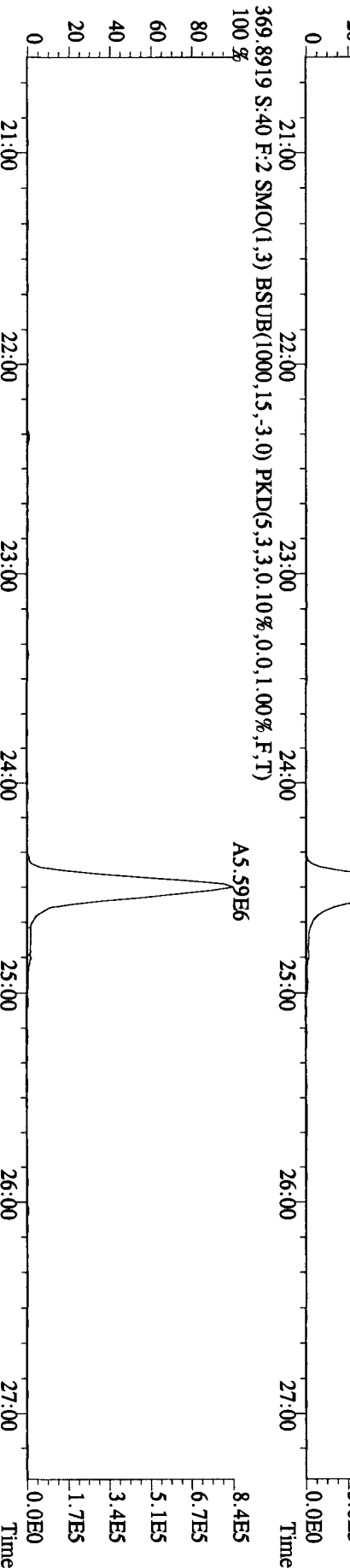
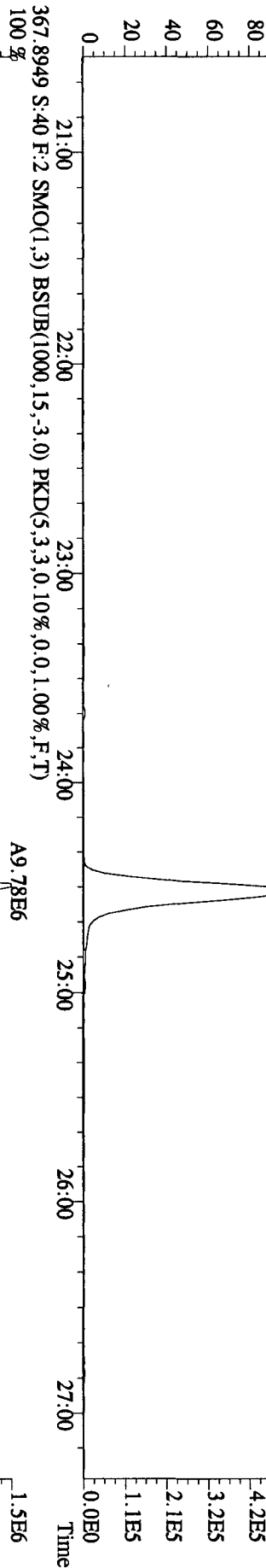
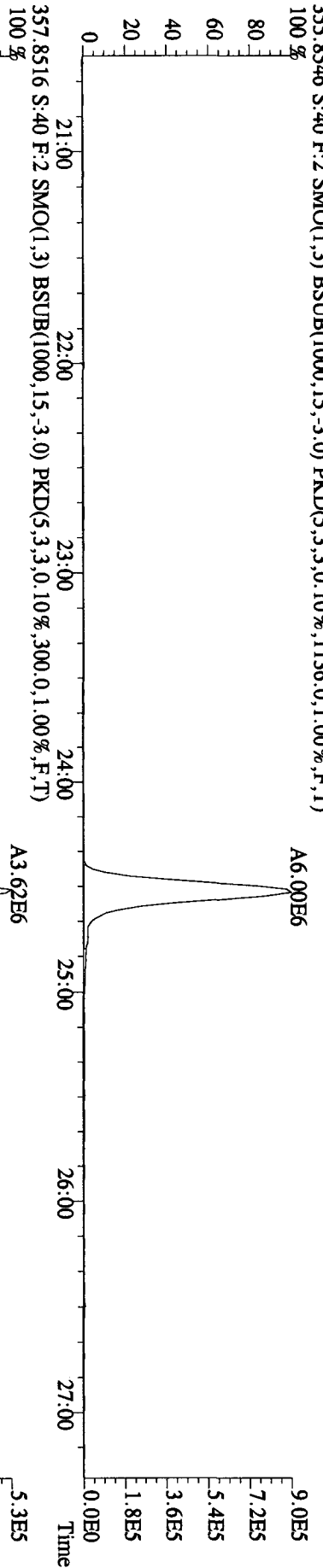
353.8970 S:40 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,228,0,1,00%,F,T)
 100 % A1.18E7



File:02NO10A1D5 #1-383 Acq: 3-NOV-2010 18:26:35 GC: EI + Voltage SIR 70SE
 Sample#40 Text:L84XJ-1-AD :G01260480-3IDCS Exp:DIOXINRES
 339.8597 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,344,0,1.00%,F,T)
 100%



File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:184XJ-1-AD :G01260480-3DCS Exp:DIOXINRES
 355.8546 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136,0.1,0.00%,F,T)
 100%

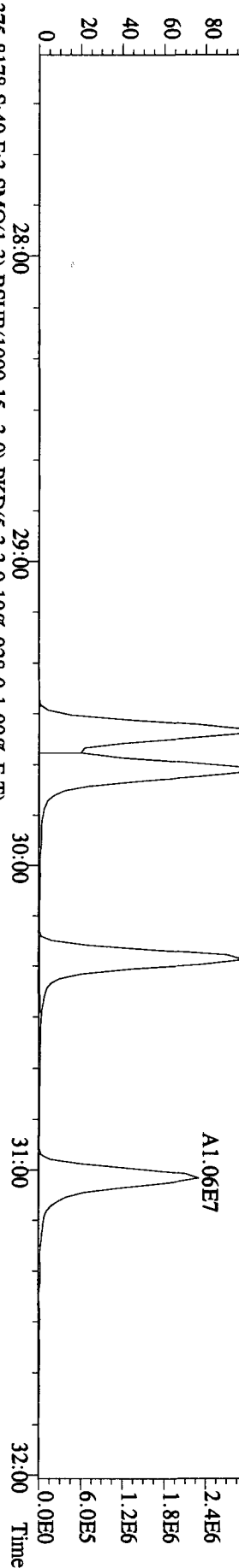


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE

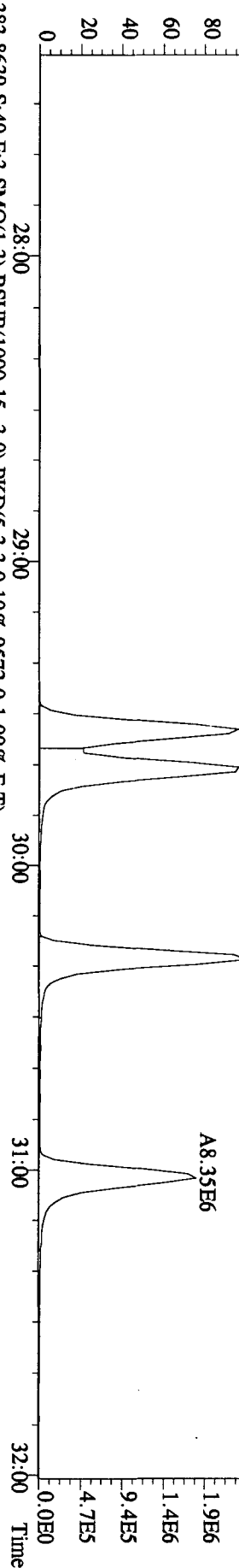
Sample#40 Text:L84XJ-1-AD :G0J260480-3PDCS

Exp: DIOXINRES

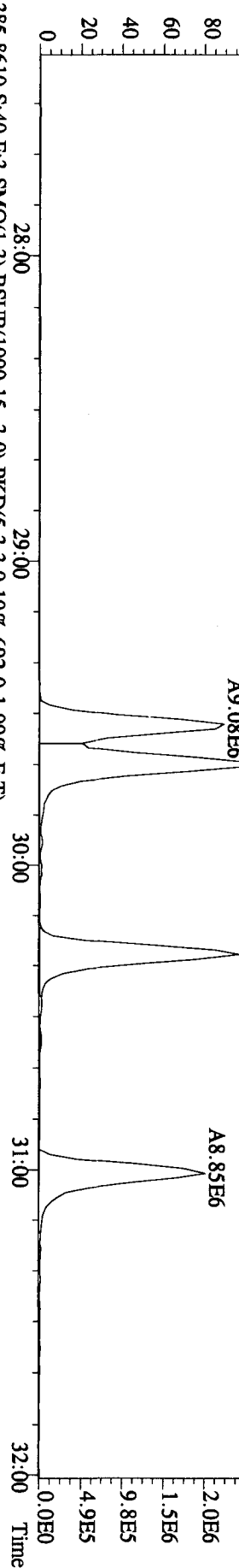
373.8208 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3928.0,1.00%,F,T)



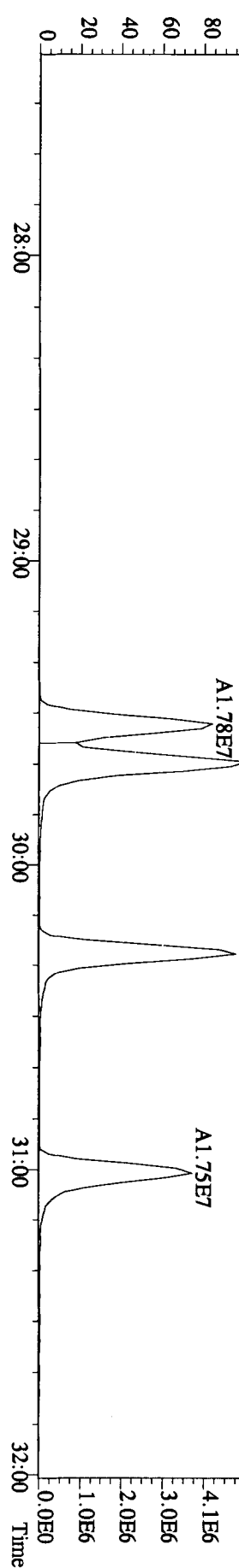
375.8178 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,928.0,1.00%,F,T)



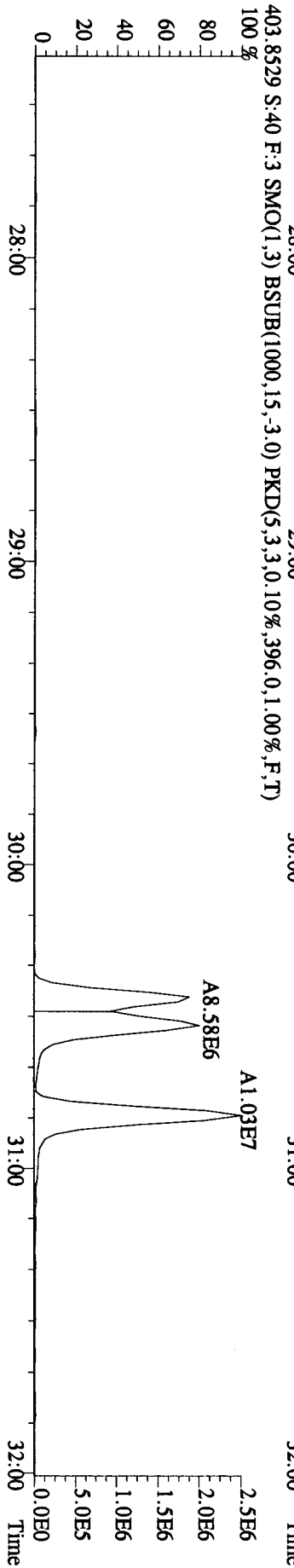
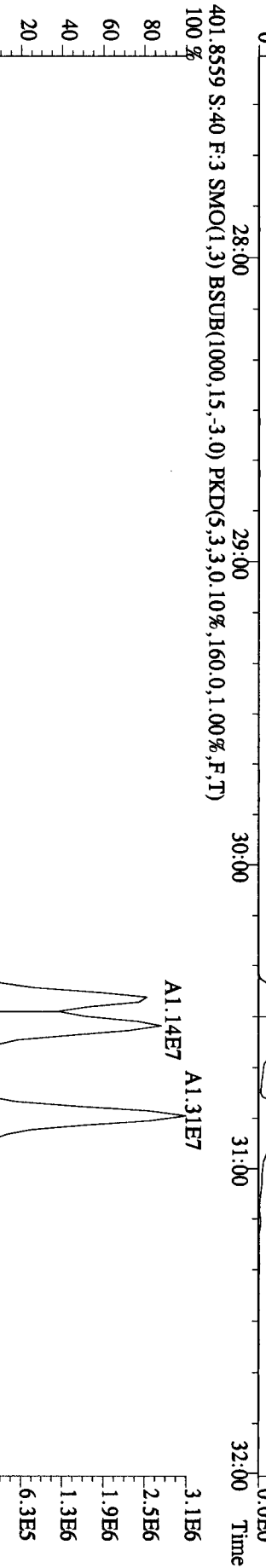
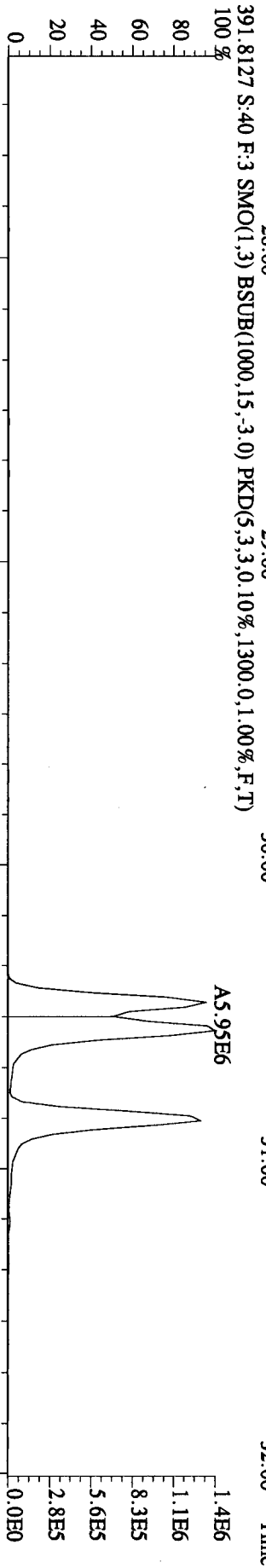
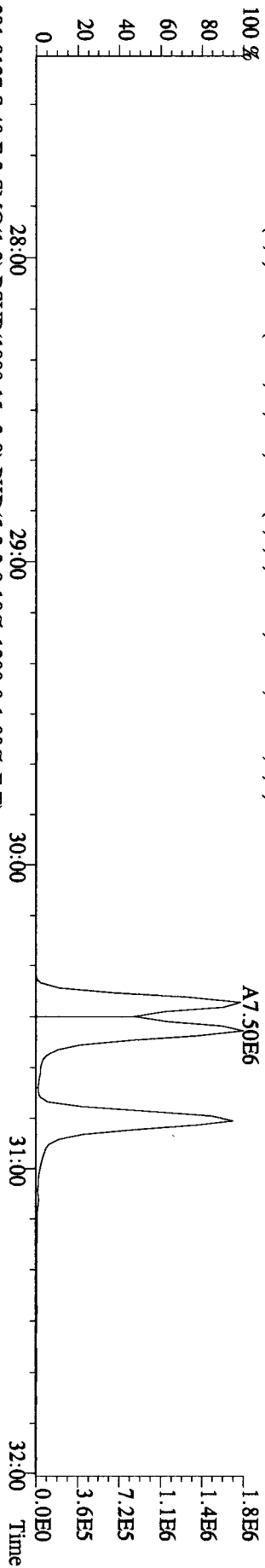
383.8639 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9572.0,1.00%,F,T)



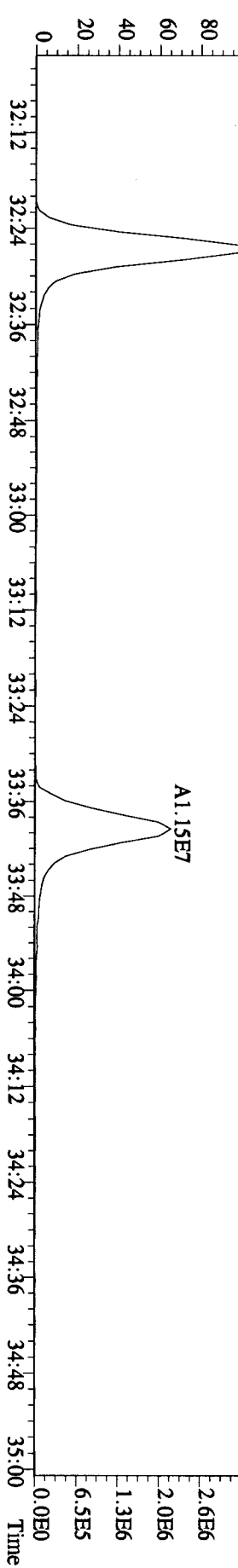
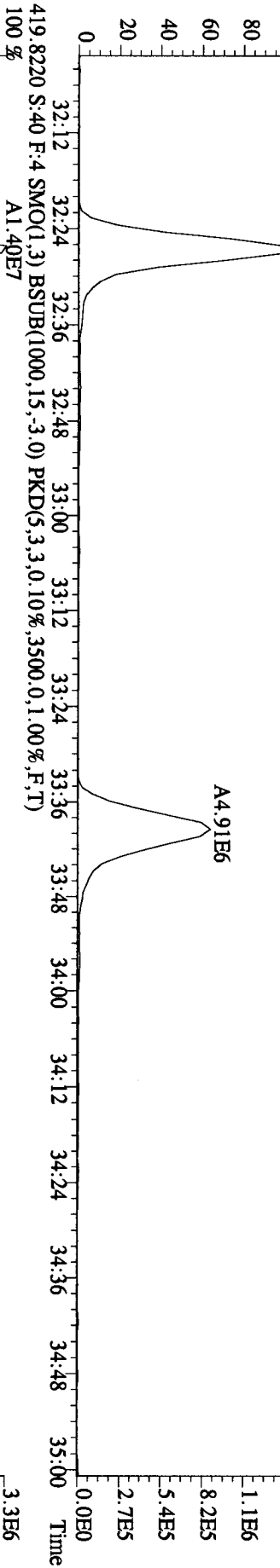
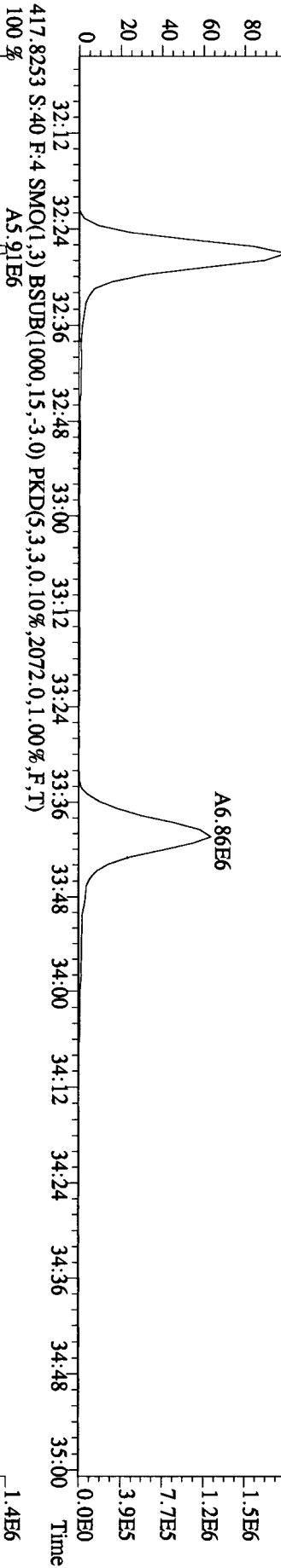
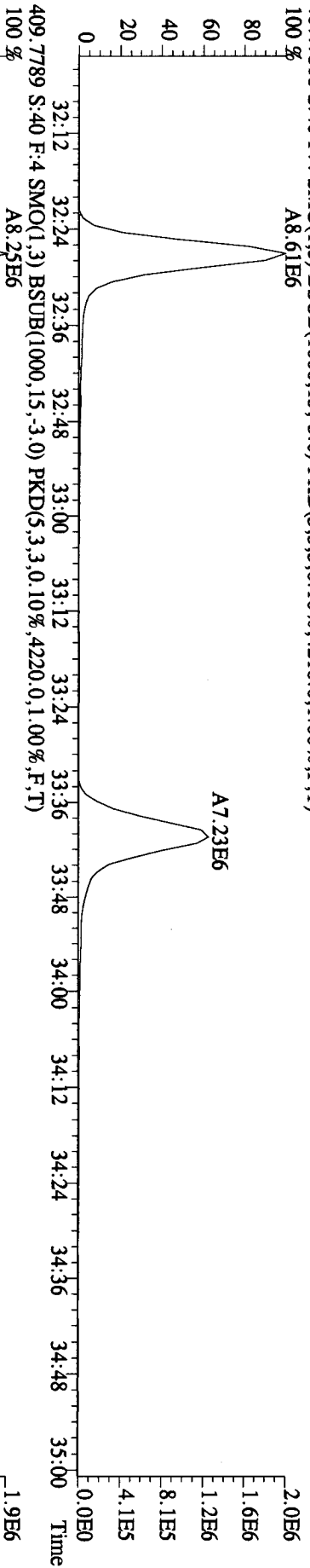
385.8610 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,692.0,1.00%,F,T)



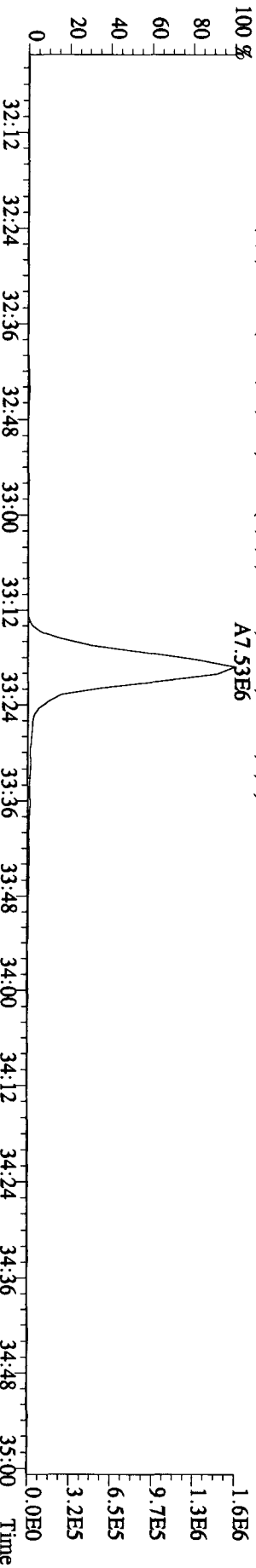
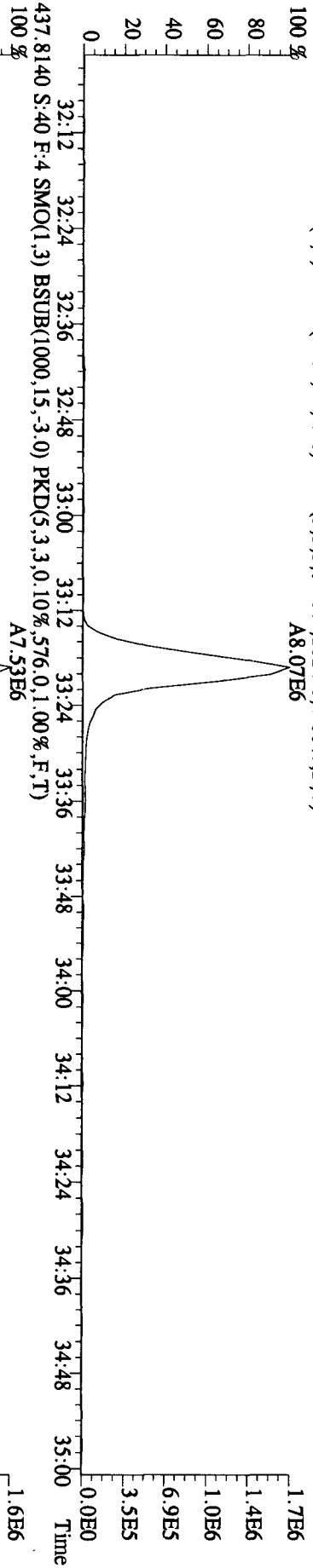
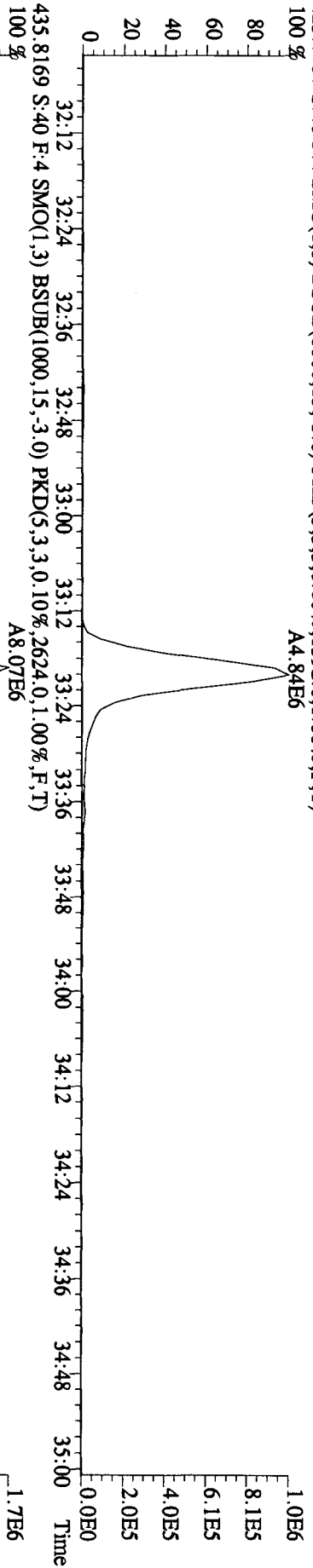
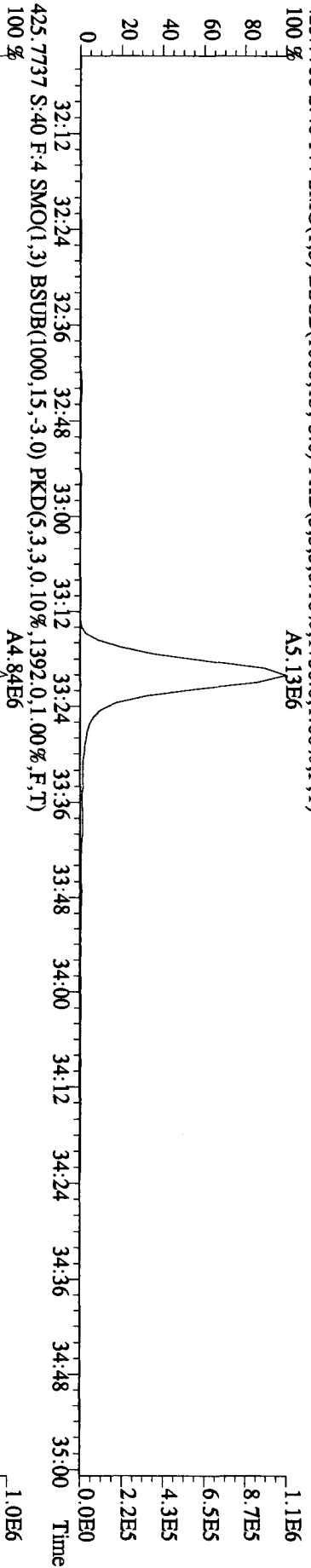
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XJ-1-AD :G0J260480-3DCS Exp:DIOXINRES
 389.8157 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,896,0,1.00%,F,T)
 100 %



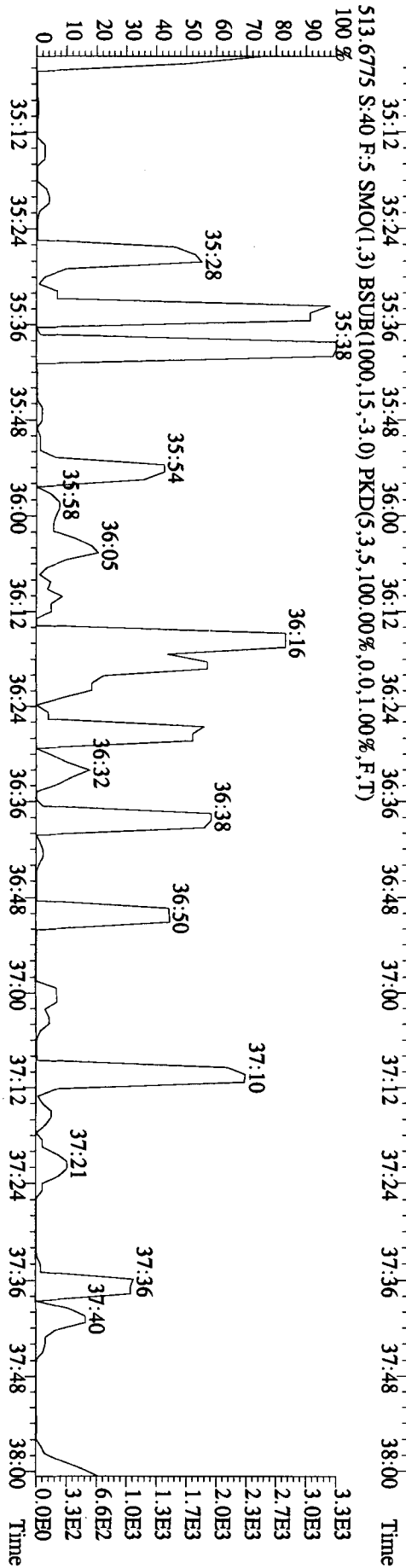
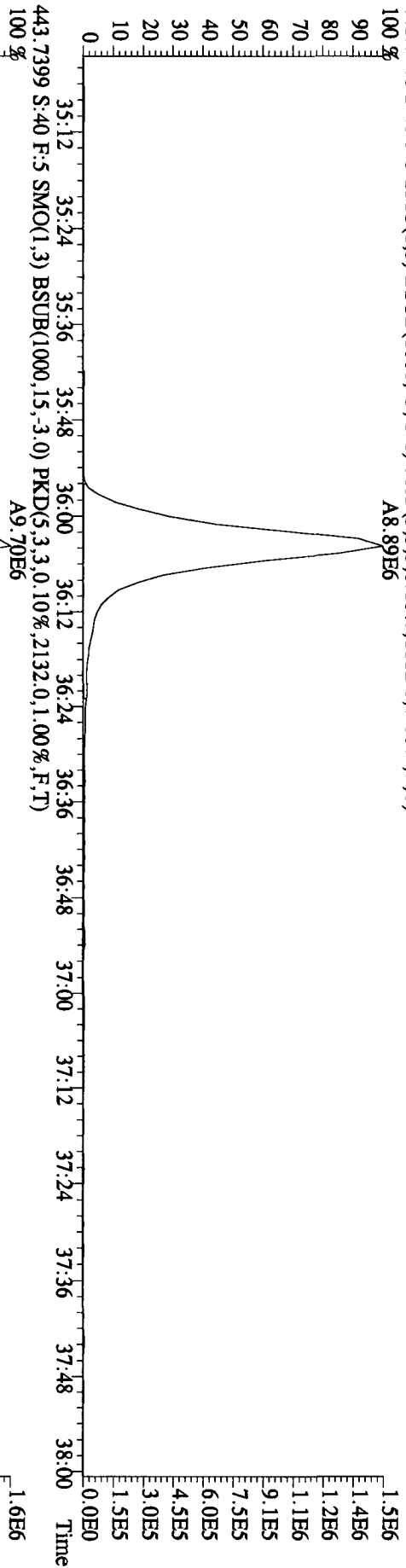
Sample#40 Text:L84XJ1-AD :G0J260480-3DCS
407.7818 S:40 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4216.0,1.00%,F,T)



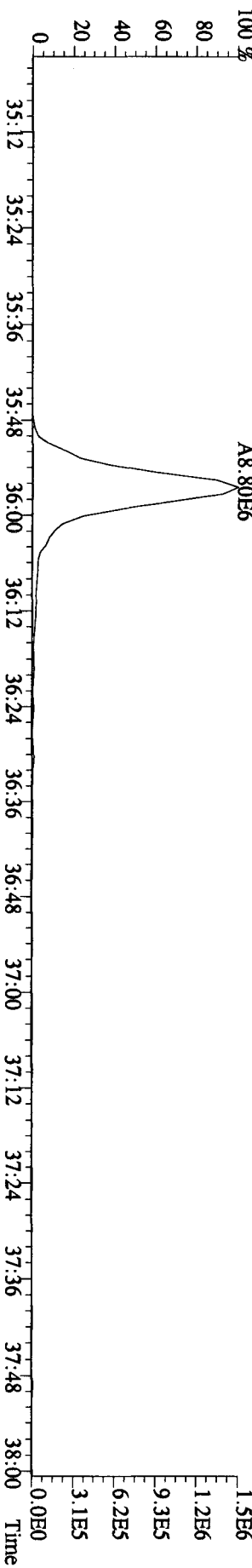
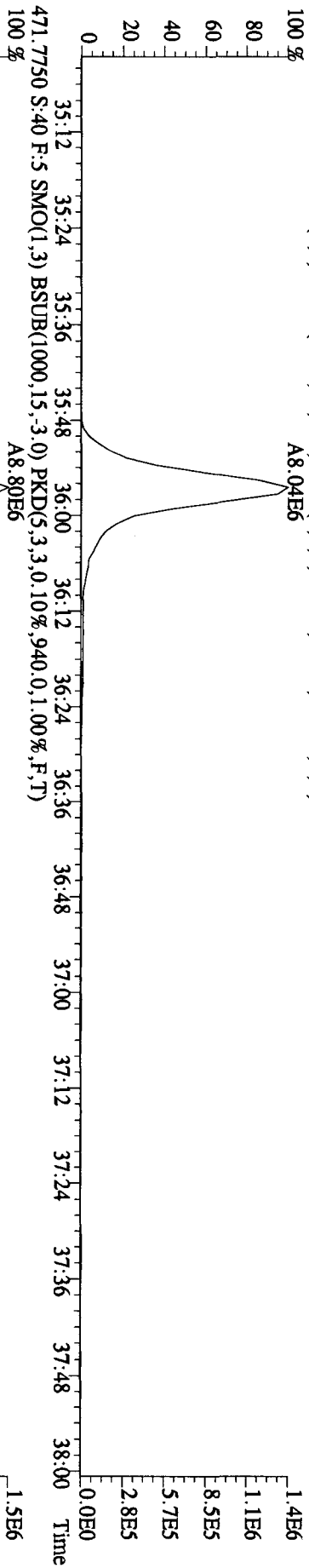
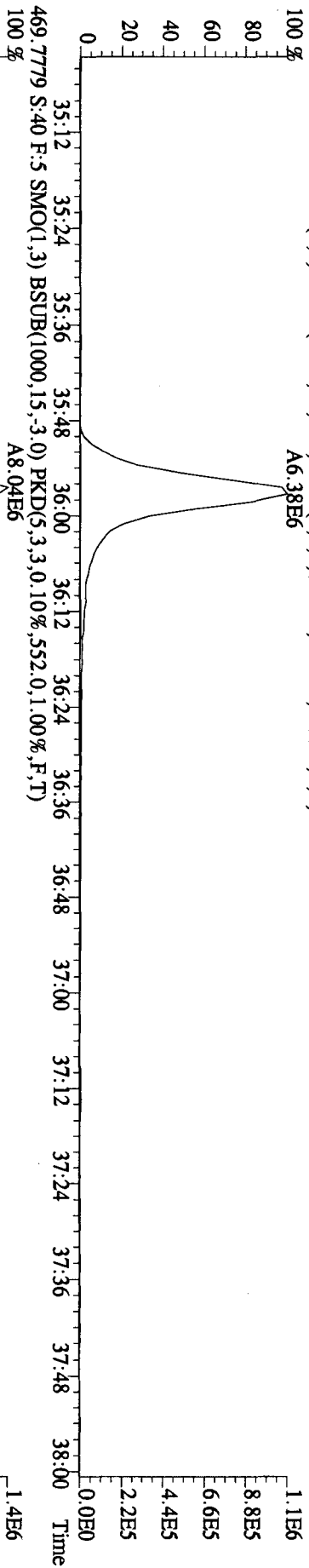
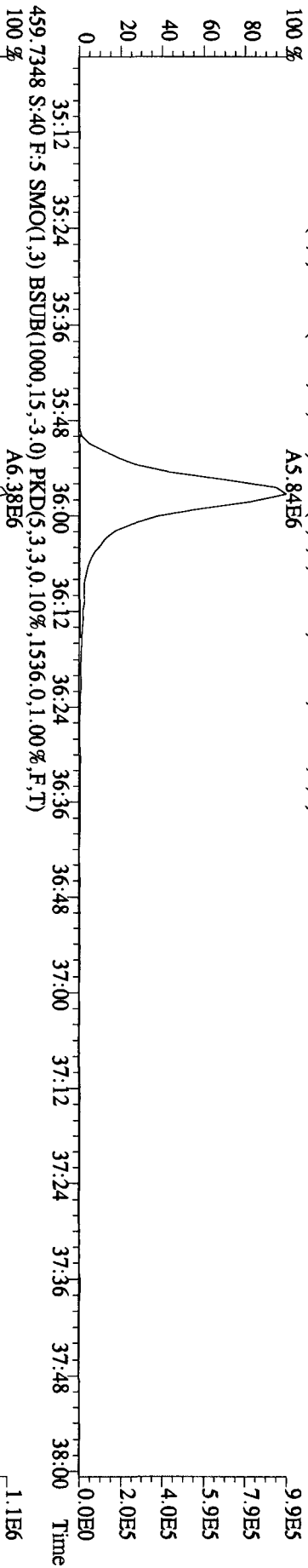
File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text: L84XJ-1-AD :G01260480-3DCS Exp: DIOXINRES
 423.7766 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1736.0,1.00%,F,T) A5.13E6

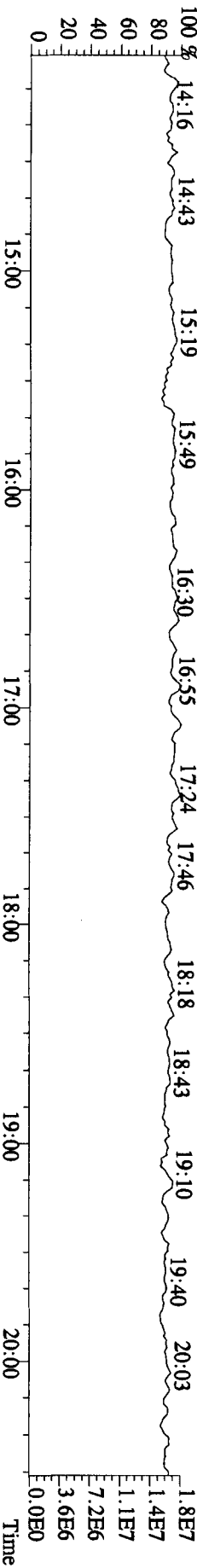
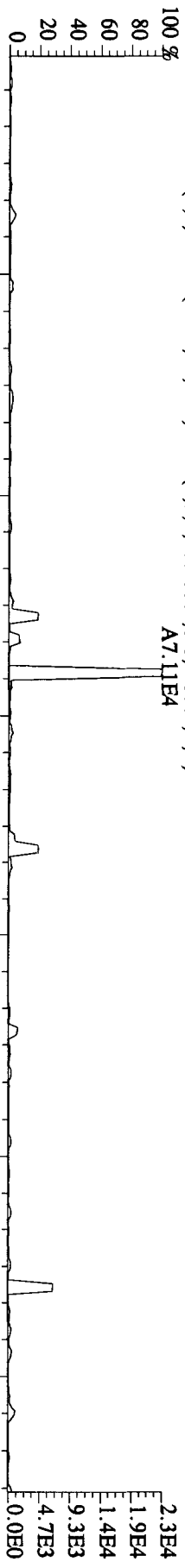
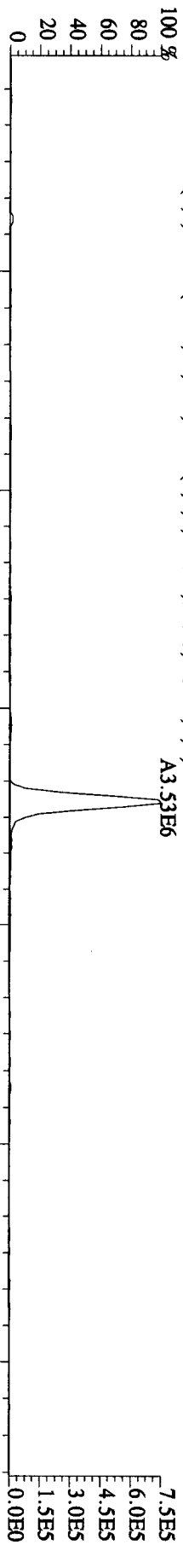
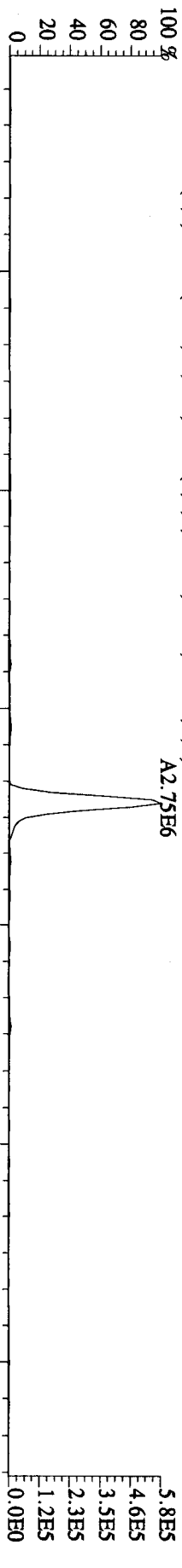
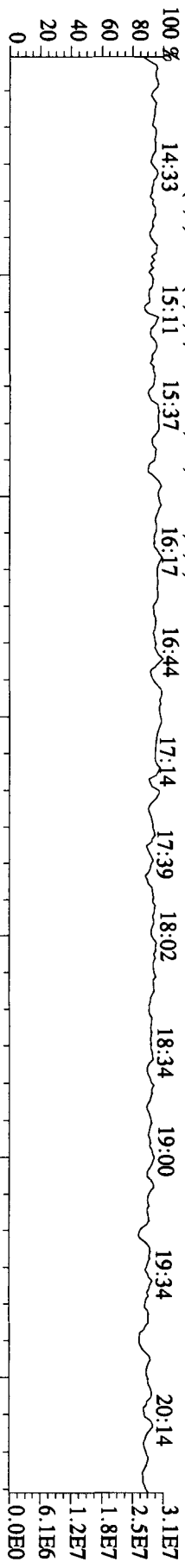


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XI-1-AD :G01260480-3DCS Exp:DIOXINRES
 441.7428 S:40 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2132,0,1,00%,F,T)
 100% A8.89E6



File: 02N010A1D5 #1-196 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
Sample#40 Text: L84XI-1-AD : G0J260480-3DCS Exp: DIOXINRES
457.7377 S:40 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2592,0.1,00%,F,T)
100% A5.84E6





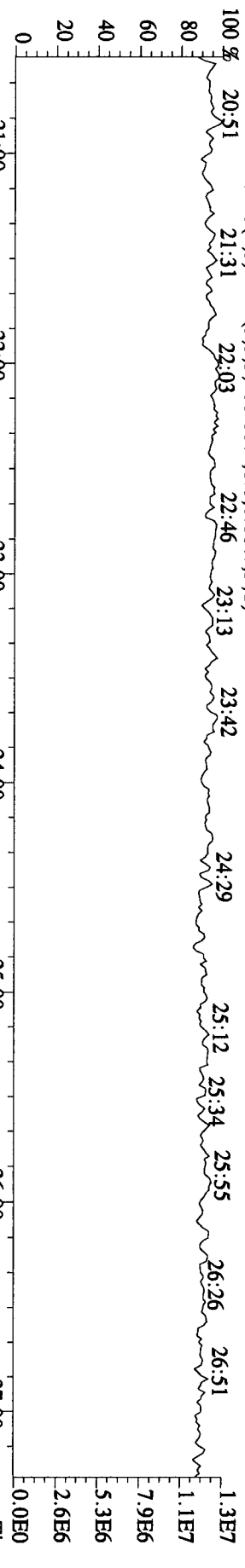
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE

Sample#40 Text:L84XJ1-AD :G0J260480-3DCS Exp:DIOXINRES

342.9792 S:40 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100% 20:51 21:31 22:03 22:46 23:13 23:42

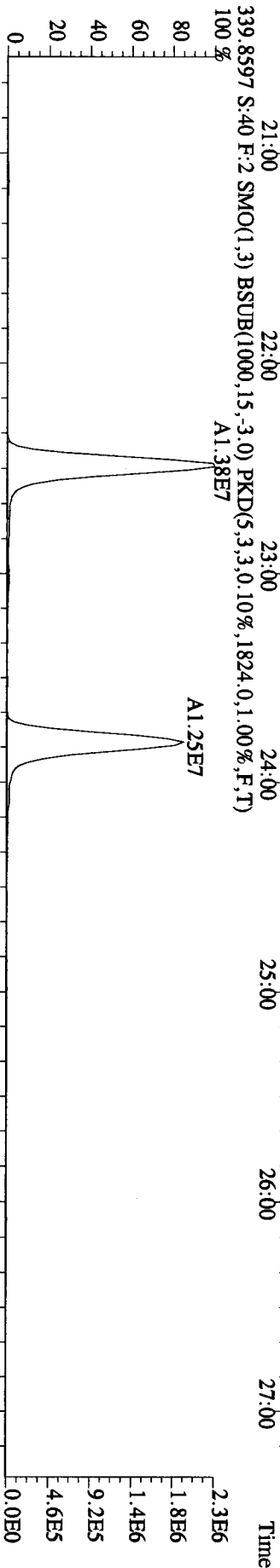
24:29 25:12 25:34 25:55 26:26 26:51



339.8597 S:40 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1824.0,1.00%,F,T)

100% A1.38E7

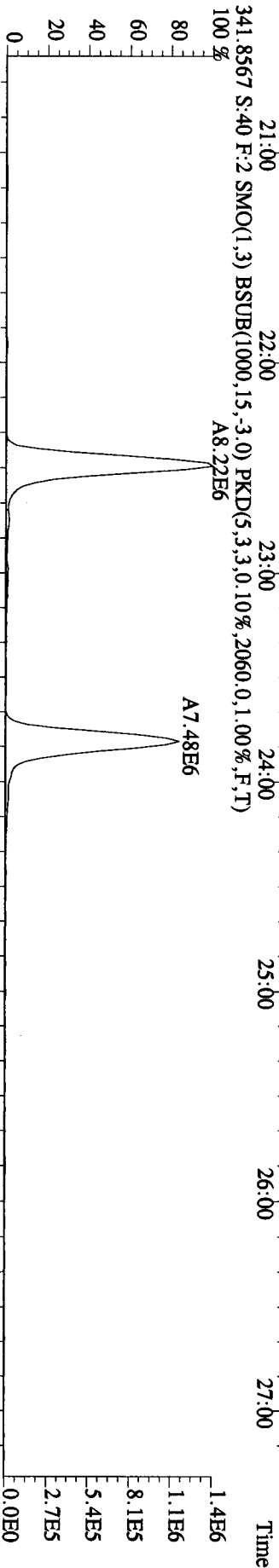
A1.25E7



341.8567 S:40 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2060.0,1.00%,F,T)

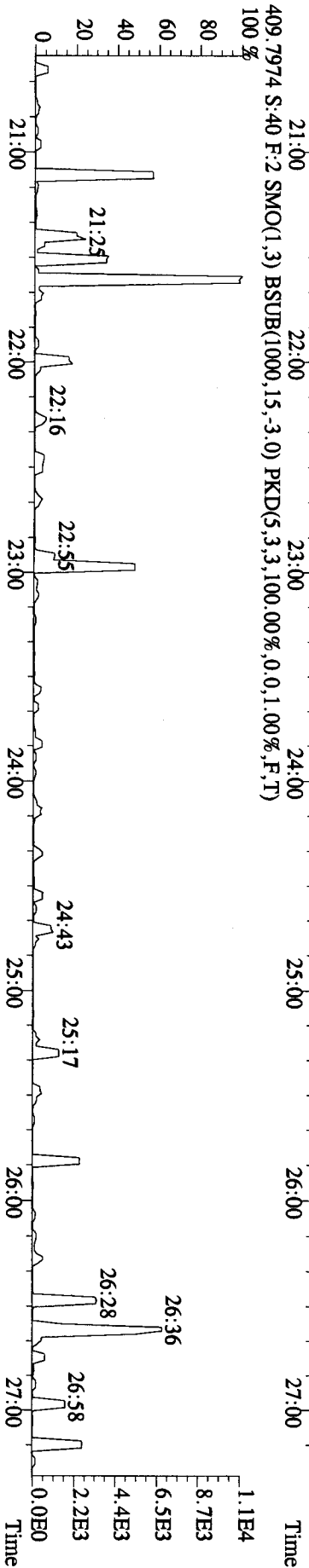
100% A8.22E6

A7.48E6

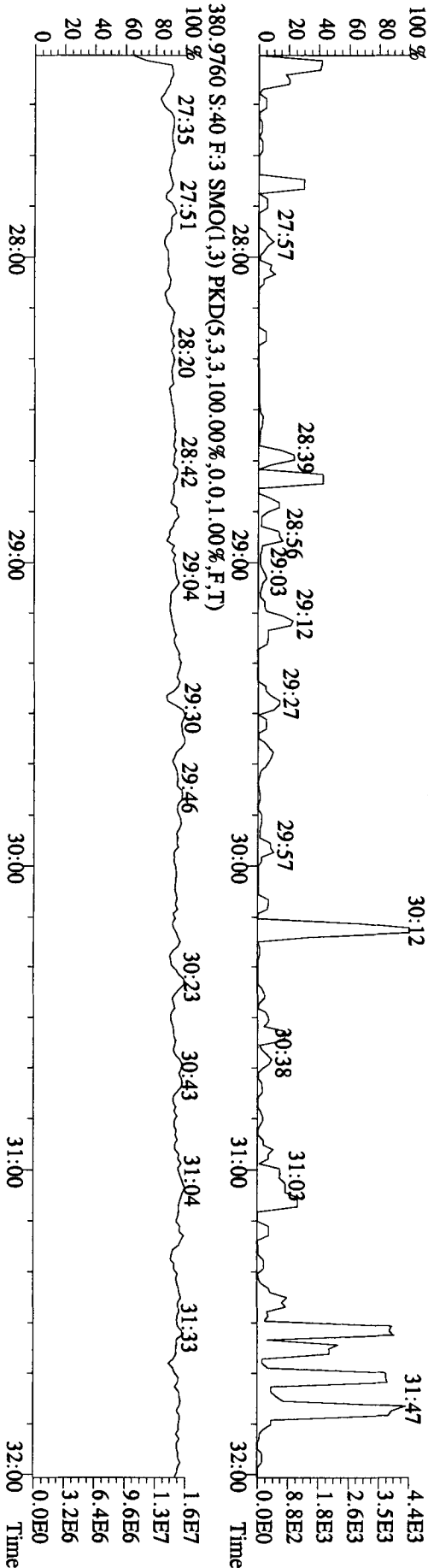
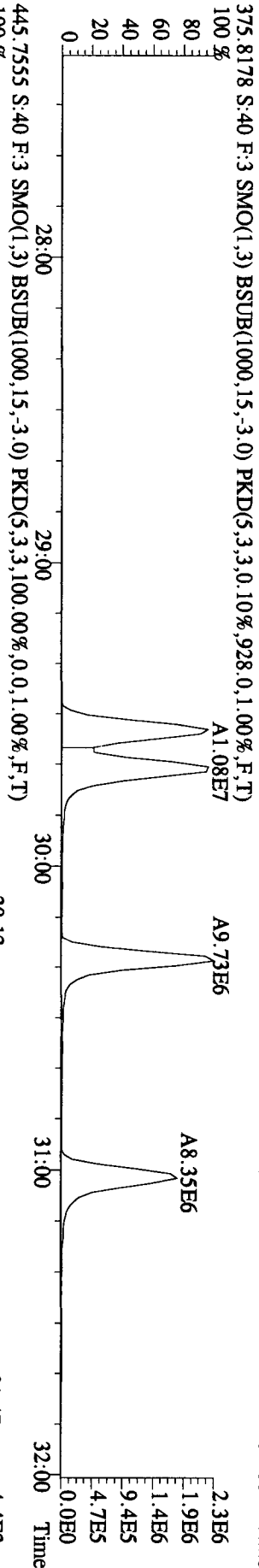
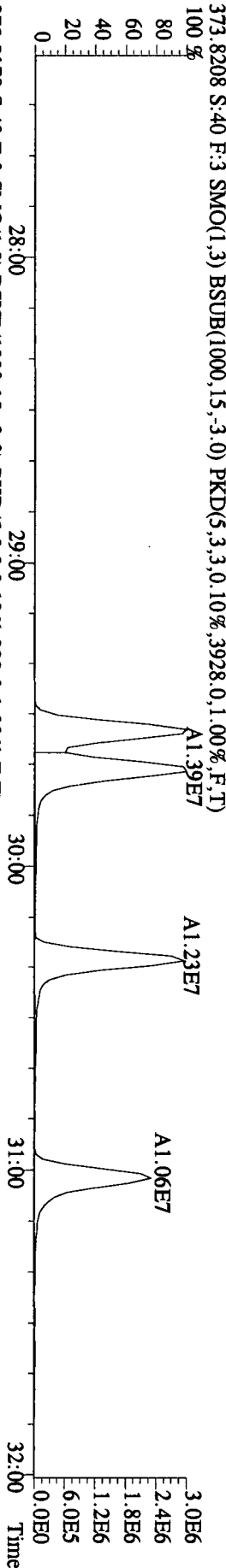
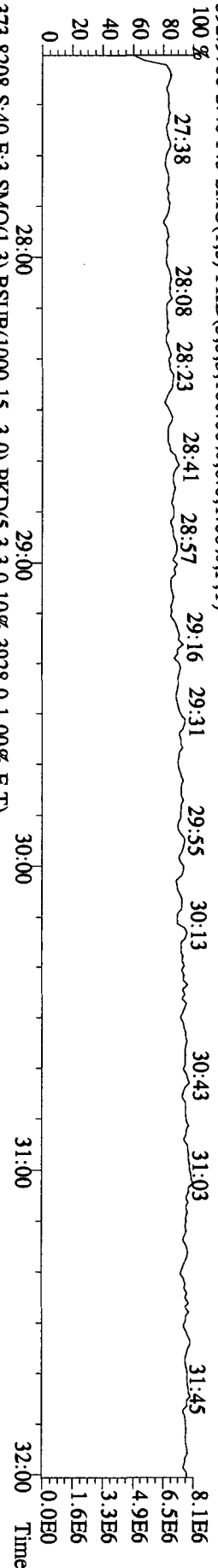


409.7974 S:40 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

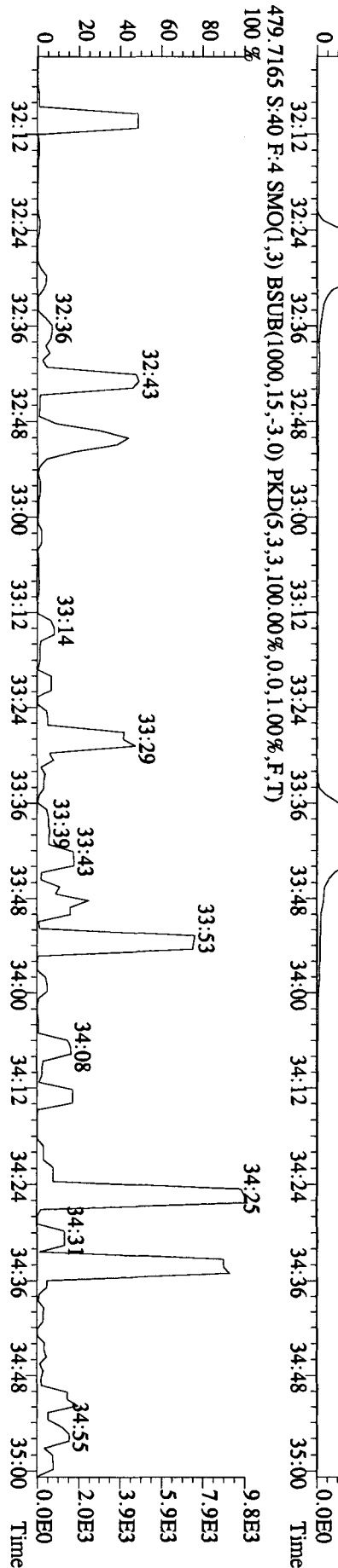
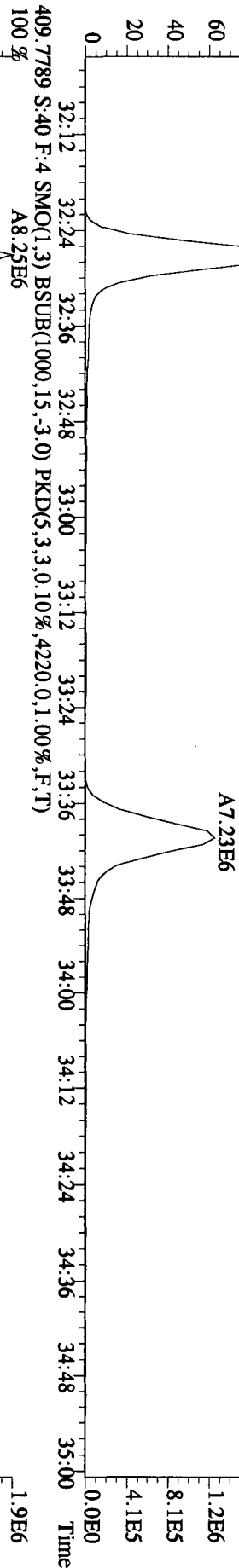
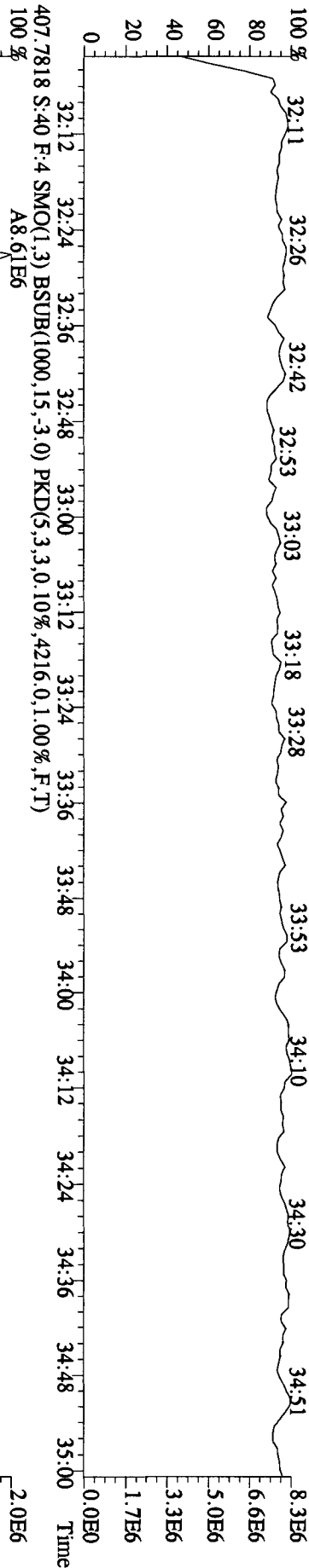
100%



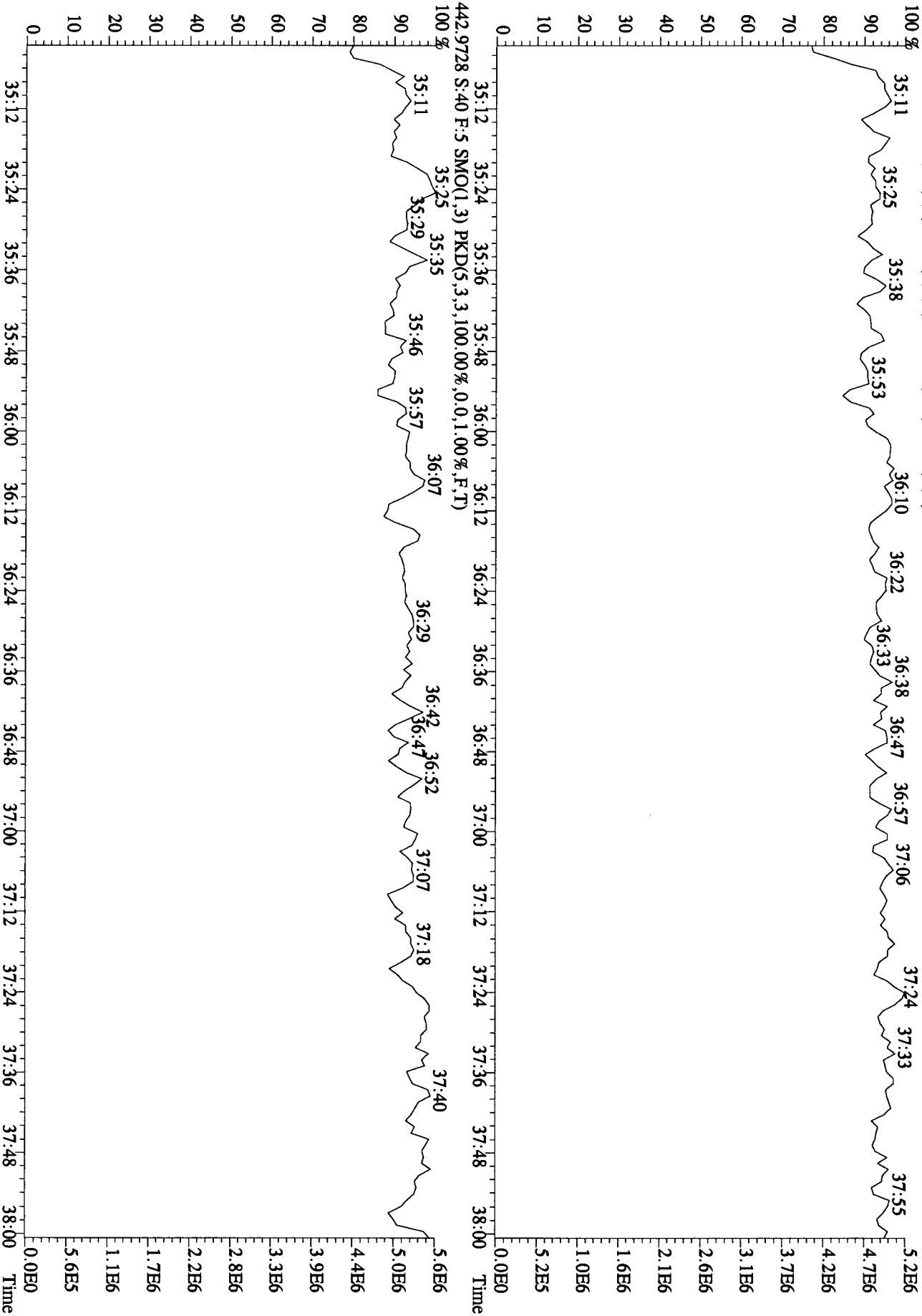
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XJ-1-AD :G0J260480-3PDCS Exp:DIOXINRES
 392.9760 S:40 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 392.9760 S:40 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XI-1.AD :G0J260480-3DCS Exp:DIOXINRES
 430.9728 S:40 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 18:26:35 GC EI+ Voltage SIR 70SE
 Sample#40 Text:L84XI-1-AD :G0J260480-3IDCS Exp:DIOXINRES
 454.9728 S:40 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3
 Run #10 Filename: 02NO10A1D5 S: 31 I: 1 Results: 02no10ald5to9os
 Acquired: 3-NOV-10 12:01:04 Processed: 3-NOV-10 16:16:27
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

09
11-5-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	38816700	0.80 y	17:56	-	45.402	-	-	n
13C-2,3,7,8-TCDF	61364400	0.76 y	17:26	1.57	4016.202	2.473	100.4	n
2,3,7,8-TCDF	10906250	0.73 y	17:28	0.88	810.167	5.090	-	n
Total TCDF	96336048	0.81 y	14:59	0.88	7156.290 7148.9 ✓	5.090	-	n
13C-2,3,7,8-TCDD	31917700	0.78 y	18:07	0.99	3324.584	4.381	83.1	n
2,3,7,8-TCDD	97256	0.65 n	18:07	0.94	12.964 J,Q	5.961	-	Y
Total TCDD	3729982	0.72 y	14:54	0.94	497.203 495.433 ✓	5.961	-	Y
37Cl-2,3,7,8-TCDD	18527720	1.00 y	18:08	1.18	1972.723	1.266	123.3	n
13C-1,2,3,7,8-PeCDF	39071800	1.76 y	22:28	1.15	3487.733	3.792	87.2	n
1,2,3,7,8-PeCDF	2967410	1.69 y	22:29	1.03	295.173 /	10.204	-	n
2,3,4,7,8-PeCDF	1372919	1.64 y	23:50	0.95	148.423 /	11.090	-	n
Total F2 PeCDF	26034452	1.71 y	20:55	0.99	2691.321 2617.821 ✓	10.628	-	n
Total F1 PeCDF	1535416	0.88 n	14:10	0.99	159.084 138.42 ✓ 2756.241	2.431	-	n
13C-1,2,3,7,8-PeCDD	18178250	1.69 y	24:30	0.67	2808.413	0.960	70.2	n
1,2,3,7,8-PeCDD	47459	3.99 n	24:30	0.96	10.867 ✓	8.383	-	n
Total PeCDD	1208760	1.30 n	21:19	0.96	276.773 225.62 ✓	8.383	-	n
13C-1,2,3,7,8,9-HxCDD	31638500	1.31 y	30:50	-	47.065	-	-	n
13C-1,2,3,4,7,8-HxCDF	36935700	0.51 y	29:32	1.15	4066.742	6.017	101.7	n
1,2,3,4,7,8-HxCDF	5153900	1.31 y	29:33	1.22	457.861 /	11.055	-	Y
1,2,3,6,7,8-HxCDF	3827910	1.35 y	29:41	1.41	294.603 /	9.577	-	Y
2,3,4,6,7,8-HxCDF	931185	1.28 y	30:19	1.23	81.847 J	10.938	-	Y
1,2,3,7,8,9-HxCDF	456949	1.40 y	31:01	1.08	45.661 J	12.435	-	Y
Total HxCDF	27252999	1.29 y	28:00	1.24	2359.821 2357.571 ✓	10.908	-	Y
13C-1,2,3,6,7,8-HxCDD	26382400	1.35 y	30:32	0.96	3478.624	3.495	87.0	n
1,2,3,4,7,8-HxCDD	78919	0.96 n	30:28	0.89	13.486 J,Q	5.125	-	n
1,2,3,6,7,8-HxCDD	170626	1.47 n	30:33	1.05	24.663 J,Q	4.335	-	n
1,2,3,7,8,9-HxCDD	229206	1.22 y	30:51	1.00	34.584 J	4.525	-	n
Total HxCDD	1253384	1.20 y	28:56	0.98	192.535 190.705 ✓	4.638	-	n
13C-1,2,3,4,6,7,8-HpCDF	25794180	0.44 y	32:27	0.98	3313.065	8.088	82.8	n
1,2,3,4,6,7,8-HpCDF	10734310	1.04 y	32:27	1.33	1250.239 /	9.525	-	n
1,2,3,4,7,8,9-HpCDF	3117990	1.09 y	33:40	1.12	432.089 /	11.333	-	n
Total HpCDF	19134441	1.04 y	32:27	1.23	2350.872 /	10.351	-	n
13C-1,2,3,4,6,7,8-HpCDD	19214170	1.06 y	33:19	0.82	2946.612	8.034	73.7	n
1,2,3,4,6,7,8-HpCDD	496948	1.21 n	33:20	1.05	98.704 J,Q	8.396	-	n
Total HpCDD	728435	1.07 y	32:42	1.05	144.682 141.172 ✓	8.396	-	n
13C-OCDD	20841100	0.96 y	35:56	0.54	4863.150	6.735	60.8	n
OCDF	13416390	0.93 y	36:03	1.58	3259.711 /	11.906	-	n

OCDD

296703 0.86 y 35:56 1.13

100.511 5

6.915

- n

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:19

Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 3578.14 of which 405.08 named and 3173.06 unnamed
 Conc: 7156.29 of which 810.17 named and 6346.12 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:59	0.81 y	318.26	1920990 2363390	178.7 261.1	y	n
	2	15:20	0.81 y	93.56	562215 697243	46.6 69.8	y	n
	3	15:29	0.94 n	106.25	758739 808111	66.9 81.9	y	n
	4	15:45	0.81 y	1630.67	9824310 12127300	750.8 1078.6	y	n
	5	16:00	0.78 y	715.16	4205020 5422270	290.1 418.0	y	n
	6	16:17	0.83 y	649.75	3956510 4790240	195.8 296.1	y	n
	7	16:31	0.73 y	603.38	3418720 4703880	259.6 432.8	y	n
	8	16:47	0.79 y	547.42	3256850 4112410	213.2 306.3	y	n
	9	16:53	0.77 y	716.39	4192780 5451120	324.9 501.8	y	n
	10	17:03	0.81 y	559.98	3364520 4173730	264.6 385.7	y	n
	11	17:16	0.73 y	168.10	954860 1308100	57.4 88.1	y	n
2,3,7,8-TCDF	12	17:28	0.73 y	810.17	4602640 6303610	311.7 478.9	y	n
	13	17:52	0.92 n	88.18	619022 670620	43.3 58.4	y	n
	14	18:06	0.76 y	63.91	370989 489416	19.2 33.3	y	n
	15	18:21	0.64 n	31.01	181576 285374	12.0 18.2	y	n

16	18:37	0.74	y	2.29	13097 17765	1.4 2.2	n n	n n
17	19:17	0.87	y	44.70	280733 321056	18.7 23.7	y y	n n
18	19:35	1.93	n	5.36	78506 40756	4.5 4.4	y y	n n
19	19:48	2.03	n	1.74	26845 13222	2.1 1.8	n n	n n

Totals Results TestAmerica West Sacramento Page 2 of 9

Run Text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:11
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 242.05 of which * named and 242.05 unnamed
 Conc: 484.11 of which * named and 484.11 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:54	0.72	1.77	5560 7716	0.8 1.7	n n	n n
	2	15:54	0.81	113.31	379669 470393	43.7 104.5	y y	n n
	3	16:12	0.71	185.87	580056 814320	61.9 178.1	y y	n n
	4	16:26	0.61	16.03	52300 85644	5.4 16.0	y y	n n
	5	17:01	0.68	55.23	168386 245940	15.9 46.3	y y	n n
	6	17:12	0.81	31.39	105557 129950	6.6 13.4	y y	n n
	7	17:28	1.02	6.56	28427 27818	2.8 5.6	n y	n n
	8	17:38	0.62	18.16	59276 95289	4.0 16.2	y y	n n
	9	17:56	0.59	17.10	55822 94285	5.8 19.6	y y	n n
	10	18:01	1.52	30.15	193964 127790	12.4 27.2	y y	n n
	11	18:31	0.77	8.53	27811 36149	3.0 6.8	y y	n n

See 2A

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:14
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1345.66 of which 221.80 named and 1123.86 unnamed
 Conc: 2691.32 of which 443.60 named and 2247.73 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:55	1.71 y	218.48	1331080 777635	72.9 57.5	y	n
	2	21:08	1.63 y	883.11	5280180 3243260	229.0 188.4	y	n
	3	21:22	1.46 y	142.96	819096 560705	34.8 34.1	y	n
	4	21:38	1.85 n	88.29	619053 334173	21.6 15.6	y	n
	5	22:01	1.54 y	366.10	2143900 1389500	76.6 66.5	y	n
	6	22:21	1.54 y	153.11	895170 582620	42.7 40.1	y	n
1,2,3,7,8-PeCDF	7	22:29	1.69 y	295.17	1864540 1102870	75.2 70.6	y	n
	8	22:47	1.59 y	69.38 SPE	410649 258934	17.6 15.9	y	n
	9	23:01	1.75 y	179.27	1100650 629622	40.3 30.4	y	n
2,3,4,7,8-PeCDF	10	23:50	1.64 y	148.42	852680 520239	34.3 28.8	y	n
	11	24:08	1.62 y	89.37	533834 328687	17.0 16.6	y	n
	12	24:28	0.96 n	4.12	24153 25163	1.8 3.2	n	n
	13	24:42	1.64 y	31.18	186998 113938	7.9 5.1	y	n
	14	25:46	1.91 n	22.36	161806 84623	7.4 3.8	y	n

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:17
Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 79.54 of which * named and 79.54 unnamed
Conc: 159.08 of which * named and 159.08 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:10	0.88 n	1.87	10985	8.4	y	n
					12533	3.8	y	n
	2	14:16	2.00 n	1.54	11707	6.6	y	n
					5846	1.6	n	n
	3	14:35	1.45 y	2.47	14142	8.3	y	n
					9734	1.9	n	n
	4	14:50	0.19 n	0.81	4734	3.8	y	n
					24563	4.8	y	n
	5	15:03	0.23 n	0.62	3622	2.7	n	n
					15885	4.5	y	n
	6	15:18	0.29 n	0.39	2263	1.2	n	n
					7698	1.7	n	n
	7	16:04	0.67 n	1.77	10391	8.3	y	n
					15473	4.8	y	n
	8	17:09	0.36 n	1.13	6603	3.7	y	n
					18398	3.1	y	n
	9	17:16	0.37 n	1.16	6806	4.1	y	n
					18398	3.1	y	n
	10	17:24	0.54 n	0.63	3715	2.0	n	n
					6869	1.8	n	n
	11	17:31	1.58 y	0.73	4322	1.7	n	n
					2740	1.0	n	n
	12	18:36	1.85 n	1.04	7261	5.9	y	n
					3935	1.2	n	n
	13	18:45	0.64 n	0.71	4156	2.6	n	n
					6447	1.9	n	n
	14	19:03	1.26 n	4.00	23463	11.2	y	n
					18608	5.7	y	n
	15	19:33	1.64 y	134.61	806807	401.0	y	n
					492411	93.6	y	n
	16	19:47	1.20 n	3.81	22355	10.7	y	n

no

134.61

17	20:24	1.34	y	1.79	18580	4.1	y	n
					9911	5.1	y	n
					7385	1.8	n	n

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? yes #Hom:12
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 248.60 of which 6.48 named and 242.12 unnamed
 Conc: 497.20 of which 12.96 named and 484.24 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:54	0.72 y	1.77	5560 7717	0.8 1.7	n n	n y
	2	15:54	0.81 y	113.31	379669 470393	43.7 104.5	y y	n n
	3	16:12	0.71 y	185.87	580056 814320	61.9 178.1	y y	n n
	4	16:26	0.61 n	16.03	52300 85644	5.4 16.0	y y	n n
	5	17:01	0.68 y	55.23	168389 245940	15.9 46.3	y y	n n
	6	17:12	0.81 y	31.39	105561 129950	6.6 13.4	y y	y n
	7	17:28	1.02 n	6.56	28430 27818	2.8 5.6	n y	y n
	8	17:38	0.62 n	18.16	59282 95290	4.0 16.2	y y	y n
	9	17:56	0.60 n	17.23	56246 94285	5.9 19.6	y y	y n
	10	18:01	1.19 n	30.15	152258 127790	12.4 27.2	y y	y n
2,3,7,8-TCDD	11	18:07	0.65 n	12.96	42309 65500	5.0 14.6	y y	y n
	12	18:31	0.77 y	8.53	27810 36149	3.0 6.8	y y	n n

2A

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:17
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 138.39 of which 5.43 named and 132.95 unnamed
 Conc: 276.77 of which 10.87 named and 265.91 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:19	1.30	n	79.20	210247 161446	21.6 65.0	y n y n
	2	22:02	1.78	y	4.54	12693 7129	2.0 3.4	n n y n
	3	22:08	5.16	n	0.88	7800 1511	1.0 1.2	n n n n
	4	22:31	1.63	y	78.61	212711 130603	22.2 39.7	y n y n
	5	22:45	1.72	y	14.12	39033 22646	6.0 13.3	y n y n
	6	23:04	1.95	n	41.10	137060 70389	13.3 27.6	y n y n
	7	23:22	0.78	n	3.02	8019 10263	1.8 4.4	n n y n
	8	23:30	0.90	n	8.36	22191 24626	2.4 8.2	n n y n
	9	23:37	0.13	n	1.24	3294 24626	0.6 8.2	n n y n
	10	23:47	2.32	n	2.08	8264 3557	1.5 2.2	n n n n
	11	23:55	1.53	y	12.59	33263 21730	4.2 8.2	y n y n
	12	24:06	2.52	n	10.98	47486 18813	4.4 5.7	y n y n
	13	24:20	0.99	n	1.83	4857 4913	0.8 4.0	n n y n
1,2,3,7,8-PeCDD	14	24:30	3.99	n	10.87	74252 18611	8.4 10.8	y n y n
	15	25:13	1.94	n	3.44	11430 5891	2.0 3.0	n n n n
	16	25:43	2.95	n	1.58	7982	1.7	n n

2705 2.1 n n

17 27:12 1.40 y 2.33 5941 1.2 n n
4245 3.3 y n

Totals Results TestAmerica West Sacramento Page 6 of 9

Run Text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1168.86 of which 570.88 named and 597.99 unnamed
Conc: 2337.73 of which 1141.75 named and 1195.97 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:00	1.29 y	286.91	1841620 1431680	49.8 53.6	y	n
	2	28:17	1.28 y	481.32	3084960 2406200	96.0 89.7	y	n
	3	28:33	1.17 y	44.40	273508 233053	8.2 8.5	y	n
	4	28:48	1.33 y	86.60	564671 423299	17.5 16.3	y	n
	5	29:03	1.07 y	58.13	342436 320692	12.8 16.9	y	n
1,2,3,4,7,8-HxCDF	6	29:33	1.31 y	563.08	3597600 2740670	131.4 129.9	y	n
1,2,3,6,7,8-HxCDF	7	29:41	1.36 y	291.23	2180940 1603100	90.5 84.3	y	n
	8	29:49	1.31 y	119.15	770076 589296	28.0 28.5	y	n
	9	30:03	1.22 y	117.22	735151 602147	22.1 23.9	y	n
2,3,4,6,7,8-HxCDF	10	30:14	1.27 y	162.45	1033300 814952	25.9 28.1	y	n
1,2,3,7,8,9-HxCDF	11	31:06	1.19 y	125.00	680317 570589	18.3 20.6	y	n
	12	31:51	0.72 n	2.25	14181 19791	0.9 1.3	n	n

See GA

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:15
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1q

Amount: 1179.91 of which 439.99 named and 739.92 unnamed
 Conc: 2359.82 of which 879.97 named and 1479.85 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:00	1.29 y	286.91	1841620 1431680	49.8 53.6	y	n
	2	28:17	1.28 y	481.32	3084960 2406200	96.0 89.7	y	n
	3	28:33	1.17 y	44.40	273508 233053	8.2 8.5	y	n
	4	28:48	1.33 y	86.60	564671 423299	17.5 16.3	y	n
	5	29:03	1.07 y	58.13	342436 320692	12.8 16.9	y	n
	6	29:31	1.23 y	113.35	713595 579584	49.6 51.0	y	y
1,2,3,4,7,8-HxCDF	7	29:33	1.31 y	457.86	2925560 2228340	132.1 131.0	y	y
1,2,3,6,7,8-HxCDF	8	29:41	1.35 y	294.60	2201220 1626690	91.2 85.4	y	y
	9	29:49	1.31 y	119.15	770076 589296	28.0 28.5	y	n
	10	30:03	1.10 y	123.24	735151 670799	22.1 25.0	y	n
	11	30:14	1.16 y	90.50	555048 477489	26.6 29.2	y	y
2,3,4,6,7,8-HxCDF	12	30:19	1.28 y	81.85	522516 408669	20.9 23.8	y	y
1,2,3,7,8,9-HxCDF	13	31:01	1.40 y	45.66	266709 190240	15.8 12.6	y	y
	14	31:06	1.17 y	74.00	454639 389642	18.8 21.0	y	y
	15	31:51	0.72 n	2.25	14181 19791	0.9 1.3	n	n

GA

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 96.27 of which 36.37 named and 59.90 unnamed
 Conc: 192.53 of which 72.73 named and 119.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:56	1.20 y	15.41	54301 45370	13.7 5.6	y	n
	2	29:35	1.64 n	56.90	269566 164257	69.5 21.5	y	n
	3	29:51	1.26 y	45.66	164865 130340	47.6 14.6	y	n
1,2,3,4,7,8-HxCDD	4	30:28	0.96 n	13.49	43687 45524	16.8 8.2	y	n
1,2,3,6,7,8-HxCDD	5	30:33	1.47 n	24.66	112222 76172	34.8 10.4	y	n
1,2,3,7,8,9-HxCDD	6	30:51	1.22 y	34.58	126065 103141	27.9 12.5	y	n
	7	31:00	2.61 n	1.83	13750 5277	4.5 1.1	y	n

Run Text: L84M1-1-AA

Sample text: L84M1-1-AA :G0J260480-3

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1175.44 of which 841.16 named and 334.27 unnamed
 Conc: 2350.87 of which 1682.33 named and 668.55 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	1.04 y	1250.24	5481870 5252440	254.1 815.5	y	n
	2	32:40	1.07 y	262.51	1074330 999731	48.5 146.0	y	n
	3	32:47	1.04 y	406.04	1639140 1568940	68.9 215.8	y	n
1,2,3,4,7,8,9-HpCDF	4	33:40	1.09 y	432.09	1628630	66.9	y	n

Run Text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
 Run: 10 File: 02NO10A1D5 S:31 Acq:3-NOV-10 12:01:04
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

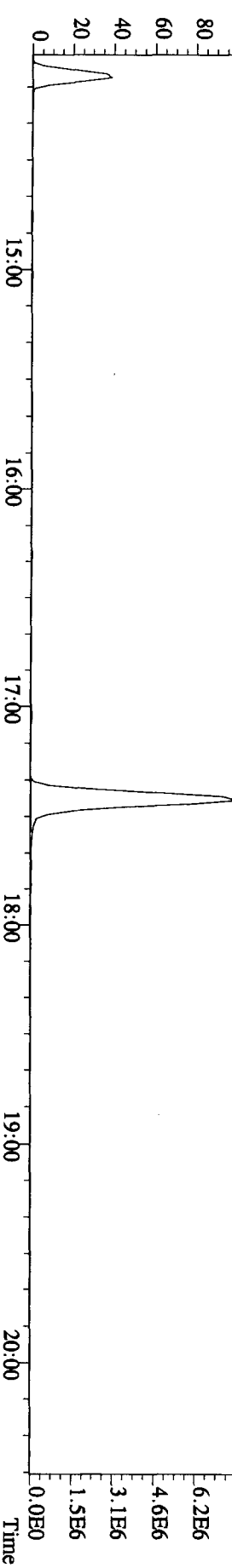
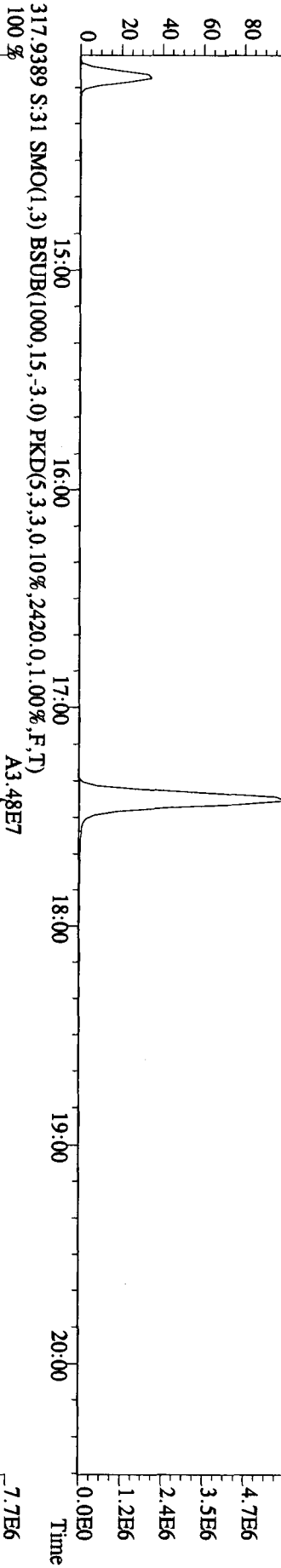
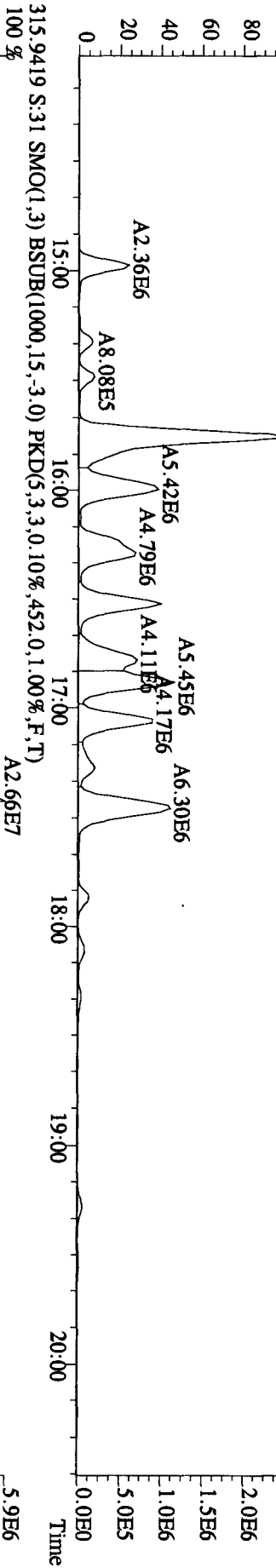
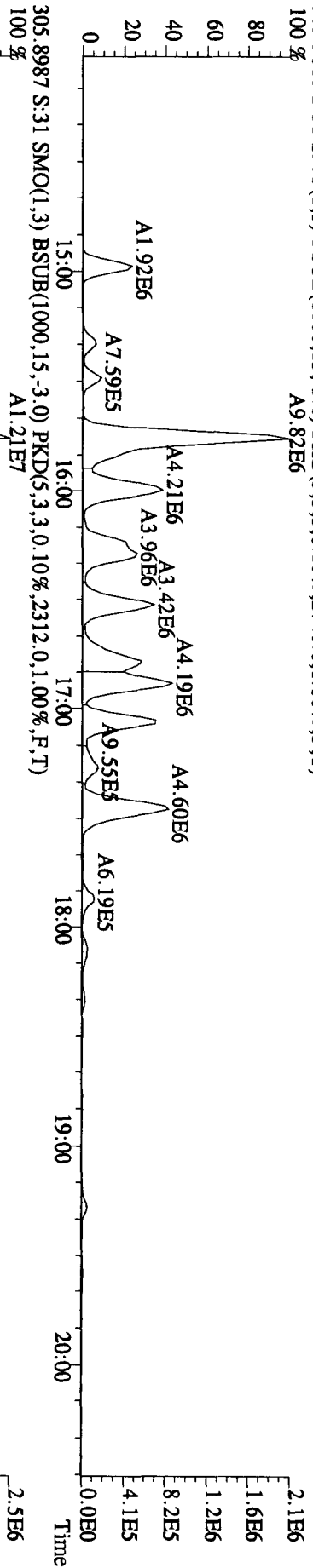
Amount: 72.34 of which 49.35 named and 22.99 unnamed
 Conc: 144.68 of which 98.70 named and 45.98 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:42	1.07 y	42.46	110542 103254	13.4 16.8	y	n
1,2,3,4,6,7,8-HpCDD	2	33:20	1.21 n	98.70	295883 243602	35.3 39.0	y	n
	3	33:39	1.86 n	3.51	16128 8672	1.9 1.6	n	n

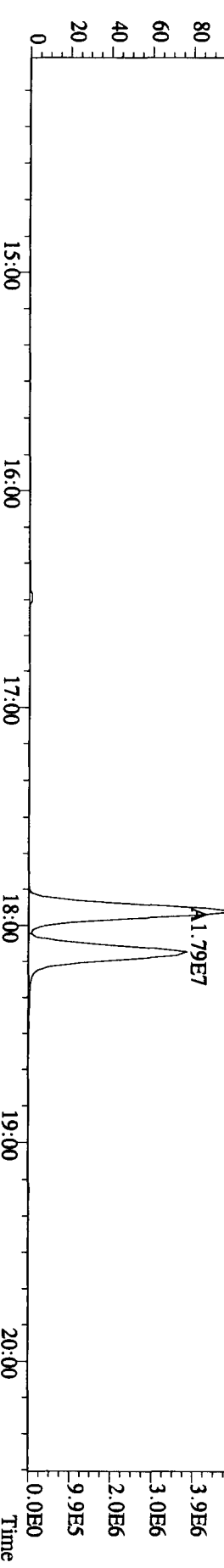
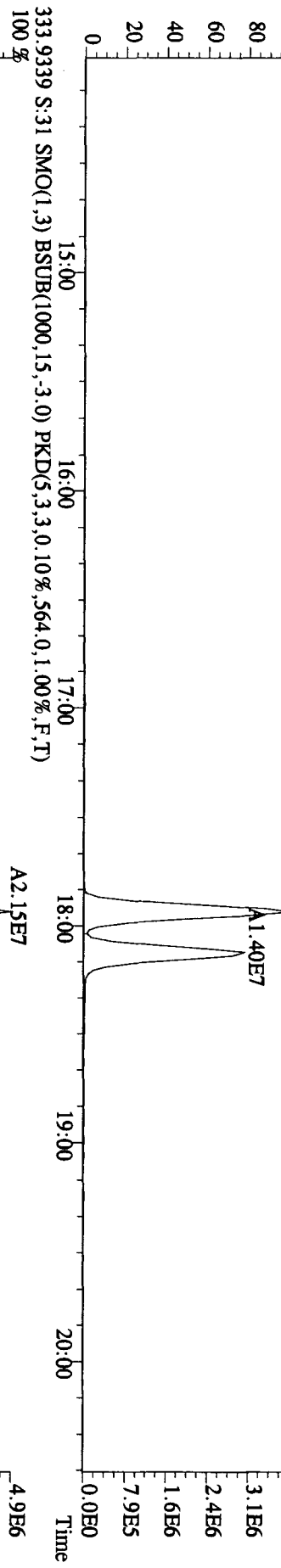
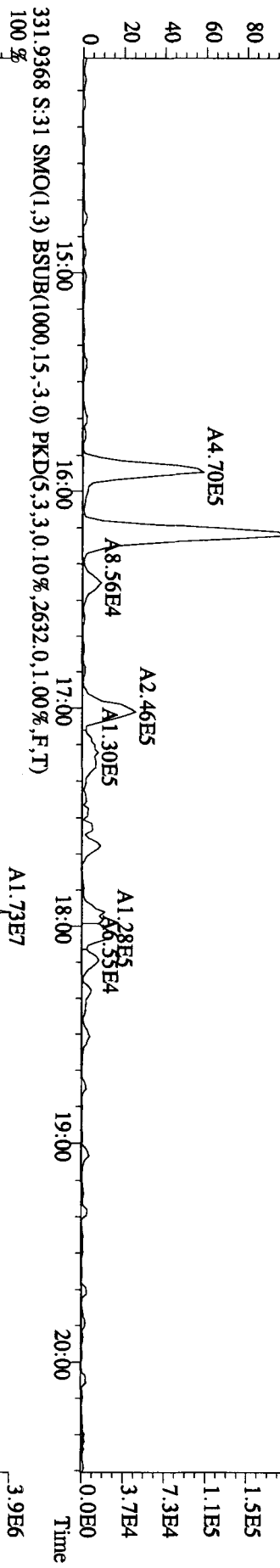
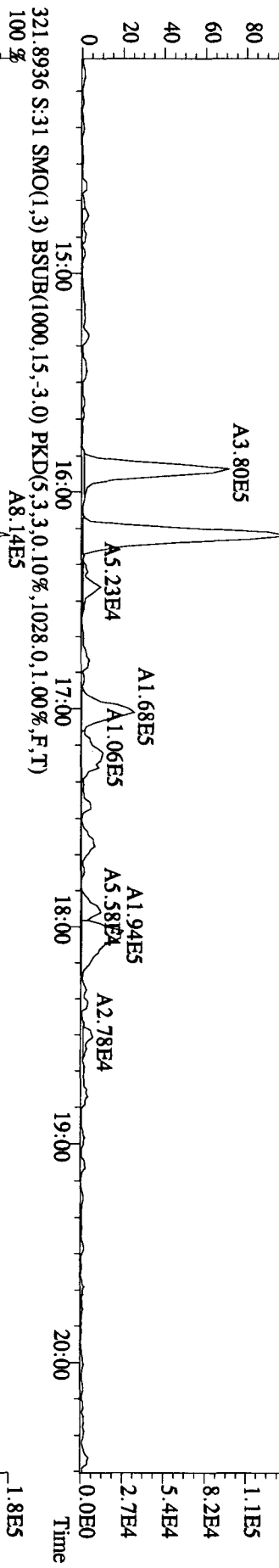
Run text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3
 Run #10 Filename: 02NO10A1D5 S: 31 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 12:01:04 Processed: 3-NOV-10 16:16:27
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	38816700	0.80 y	17:56	-	45.40	-	-	n
13C-2,3,7,8-TCDF	61364400	0.76 y	17:26	1.57	4016.20	2.47	100.4	n
2,3,7,8-TCDF	10906250	0.73 y	17:28	0.88	810.17	5.09	-	n
Total TCDF	96336048	0.81 y	14:59	0.88	7156.29	5.09	-	n
13C-2,3,7,8-TCDD	31917700	0.78 y	18:07	0.99	3324.58	4.38	83.1	n
2,3,7,8-TCDD	*	* n	NotFnd	0.94	*	5.96	-	n
Total TCDD	3631732	0.72 y	14:54	0.94	484.11	5.96	-	n
37Cl-2,3,7,8-TCDD	18527720	1.00 y	18:08	1.18	1972.72	1.27	123.3	n
13C-1,2,3,7,8-PeCDF	39071800	1.76 y	22:28	1.15	3487.73	3.79	87.2	n
1,2,3,7,8-PeCDF	2967410	1.69 y	22:29	1.03	295.17	10.20	-	n
2,3,4,7,8-PeCDF	1372919	1.64 y	23:50	0.95	148.42	11.09	-	n
Total F2 PeCDF	26034452	1.71 y	20:55	0.99	2691.32	10.63	-	n
Total F1 PeCDF	1535416	0.88 n	14:10	0.99	159.08	2.43	-	n
13C-1,2,3,7,8-PeCDD	18178250	1.69 y	24:30	0.67	2808.41	0.96	70.2	n
1,2,3,7,8-PeCDD	47459	3.99 n	24:30	0.96	10.87	8.38	-	n
Total PeCDD	1208760	1.30 n	21:19	0.96	276.77	8.38	-	n
13C-1,2,3,7,8,9-HxCDD	31638500	1.31 y	30:50	-	47.06	-	-	n
13C-1,2,3,4,7,8-HxCDF	36935700	0.51 y	29:32	1.15	4066.74	6.02	101.7	n
1,2,3,4,7,8-HxCDF	6338270	1.31 y	29:33	1.22	563.08	11.06	-	n
1,2,3,6,7,8-HxCDF	3784040	1.36 y	29:41	1.41	291.23	9.58	-	n
2,3,4,6,7,8-HxCDF	1848252	1.27 y	30:14	1.23	162.45	10.94	-	n
1,2,3,7,8,9-HxCDF	1250906	1.19 y	31:06	1.08	125.00	12.43	-	n
Total HxCDF	26865874	1.29 y	28:00	1.24	2337.73	10.91	-	n
13C-1,2,3,6,7,8-HxCDD	26382400	1.35 y	30:32	0.96	3478.62	3.50	87.0	n
1,2,3,4,7,8-HxCDD	78919	0.96 n	30:28	0.89	13.49	5.12	-	n
1,2,3,6,7,8-HxCDD	170626	1.47 n	30:33	1.05	24.66	4.33	-	n
1,2,3,7,8,9-HxCDD	229206	1.22 y	30:51	1.00	34.58	4.53	-	n
Total HxCDD	1253384	1.20 y	28:56	0.98	192.53	4.64	-	n
13C-1,2,3,4,6,7,8-HpCDF	25794180	0.44 y	32:27	0.98	3313.07	8.09	82.8	n
1,2,3,4,6,7,8-HpCDF	10734310	1.04 y	32:27	1.33	1250.24	9.52	-	n
1,2,3,4,7,8,9-HpCDF	3117990	1.09 y	33:40	1.12	432.09	11.33	-	n
Total HpCDF	19134441	1.04 y	32:27	1.23	2350.87	10.35	-	n
13C-1,2,3,4,6,7,8-HpCDD	19214170	1.06 y	33:19	0.82	2946.61	8.03	73.7	n
1,2,3,4,6,7,8-HpCDD	496948	1.21 n	33:20	1.05	98.70	8.40	-	n
Total HpCDD	728435	1.07 y	32:42	1.05	144.68	8.40	-	n
13C-OCDD	20841100	0.96 y	35:56	0.54	4863.15	6.74	60.8	n
OCDF	13416390	0.93 y	36:03	1.58	3259.71	11.91	-	n
OCDD	296703	0.86 y	35:56	1.13	100.51	6.92	-	n

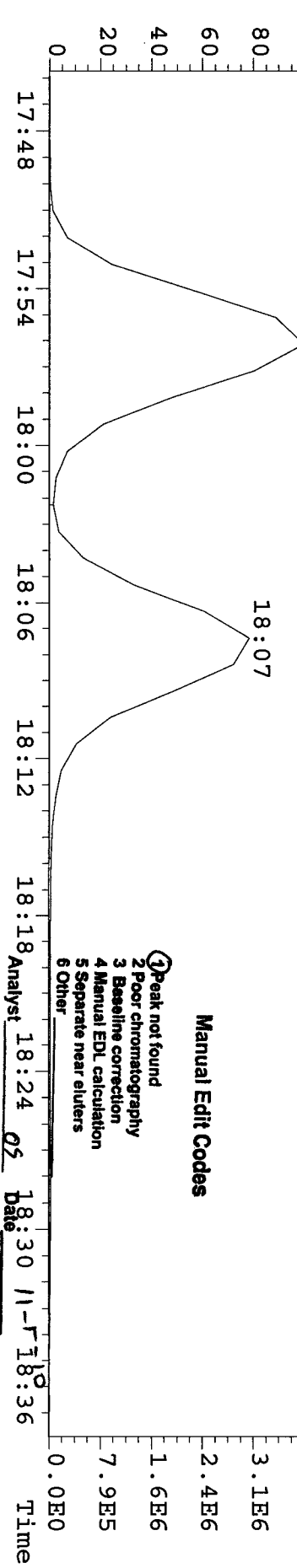
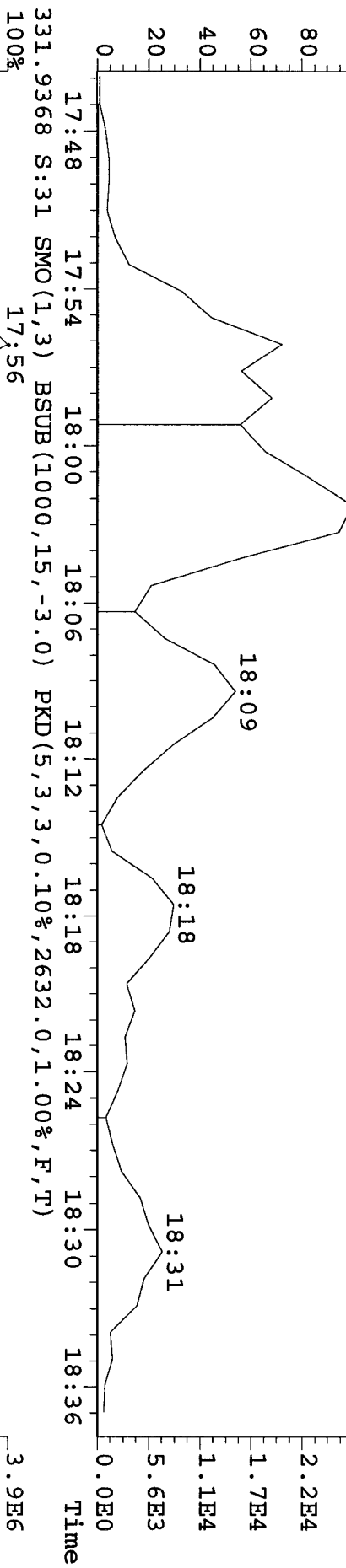
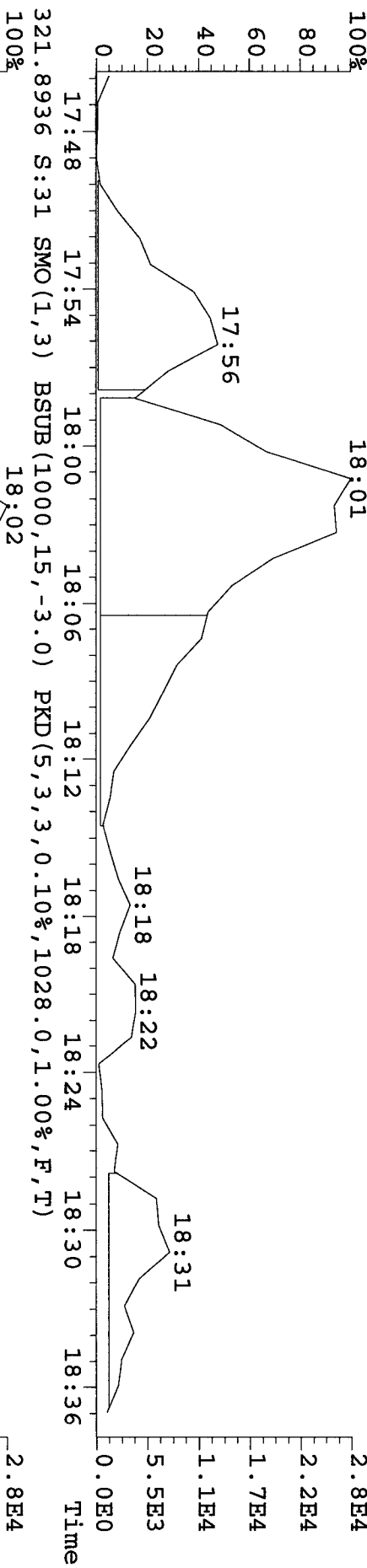
Sample#31 Text: L84M1-1-AA : C01260480-3
303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2740,0,1,00%,F,T)



File: 02NNO10A1IDS #1-382 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text: L84M1-1-AA :G01260480-3 Exp: DIOXINRES
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2192,0,1,00%,F,T)
 100%



File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text: L84M1-1-AA : G0J260480-3 Exp: DIOXINRES
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2192.0,1.00%,F,T)

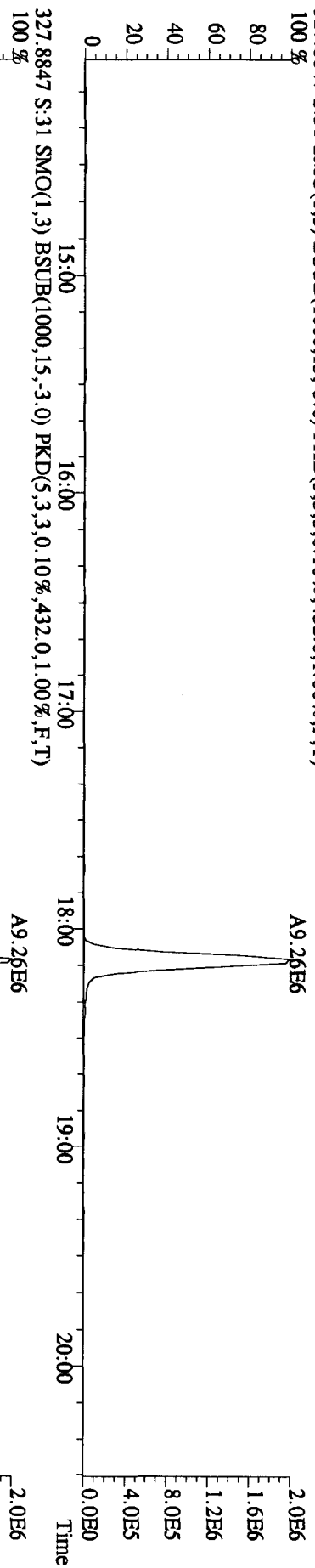


Manual Edit Codes

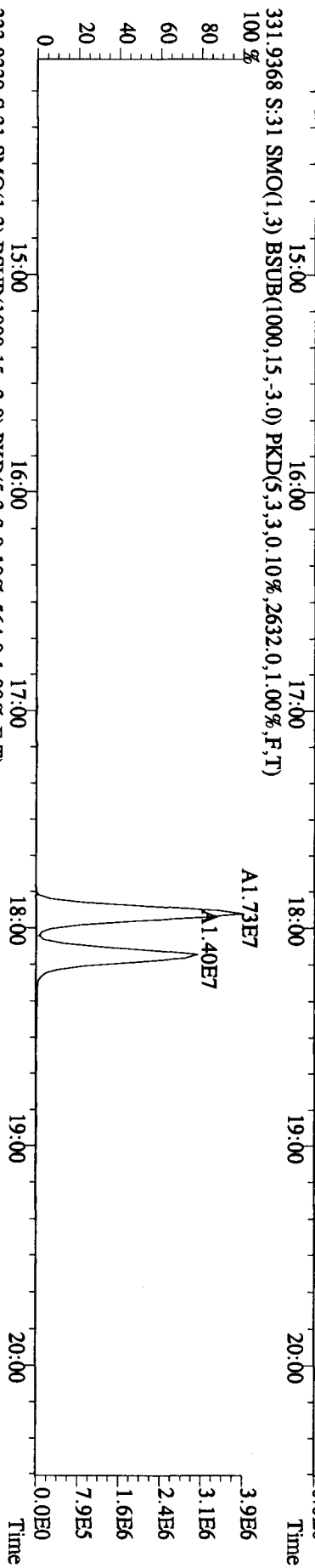
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst 18:24 05 Date 18:30 11-18-10

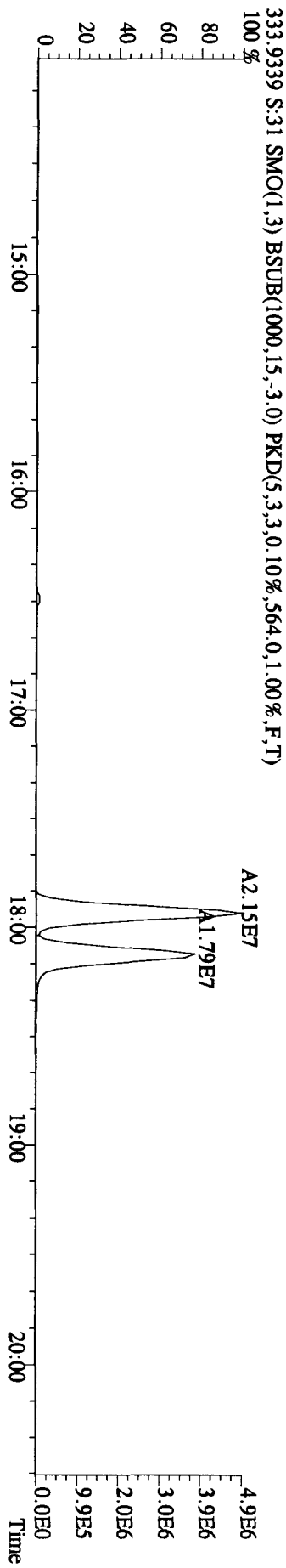
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 Sample#31 Text:L84M1-1-AA :G0J260480-3 Exp:DIOXINRES
 327.8847 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,432.0,1.00%,F,T)
 100%



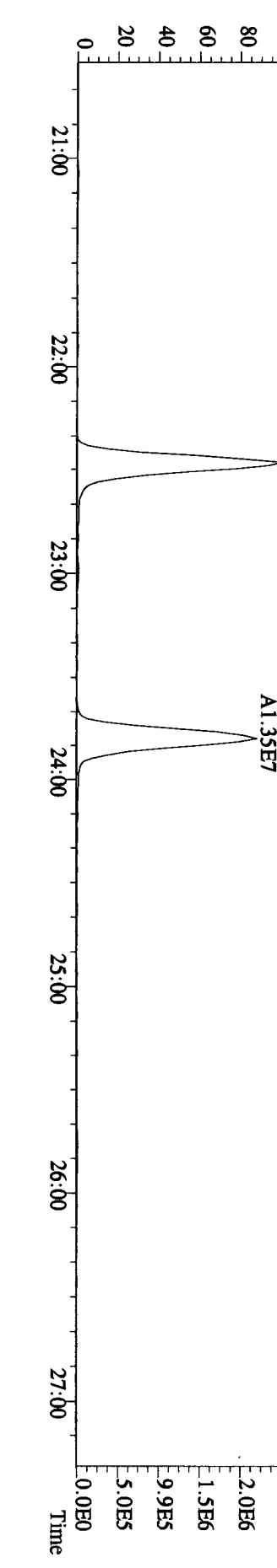
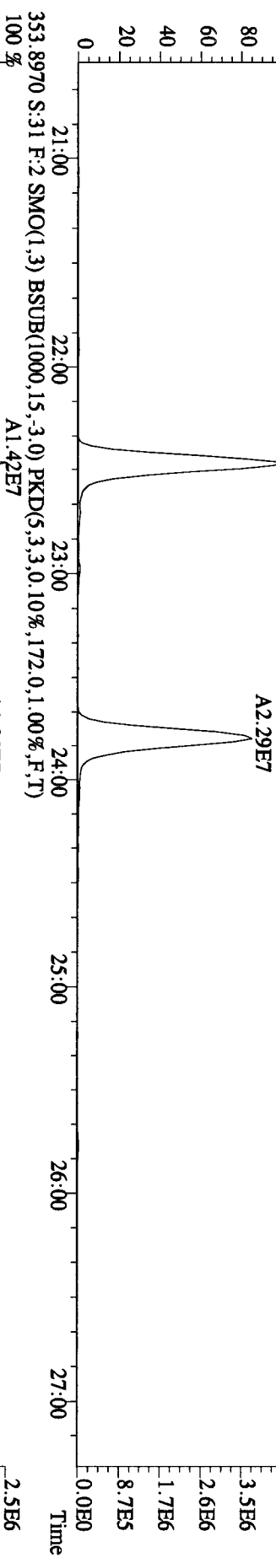
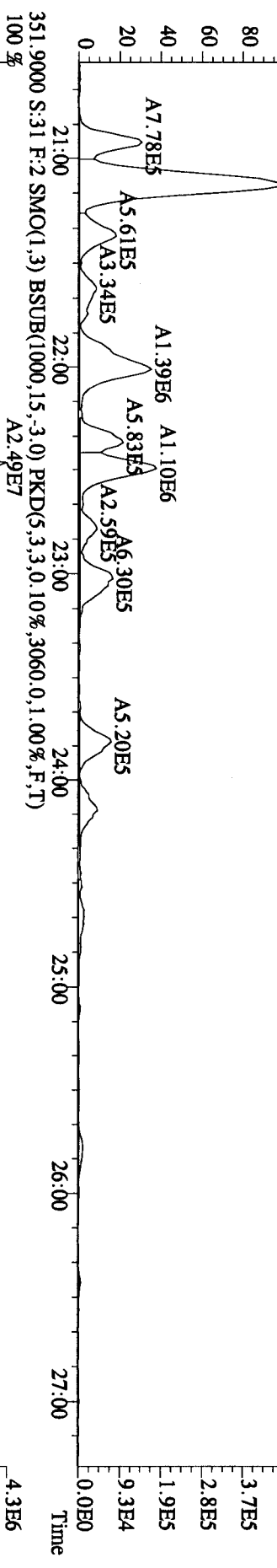
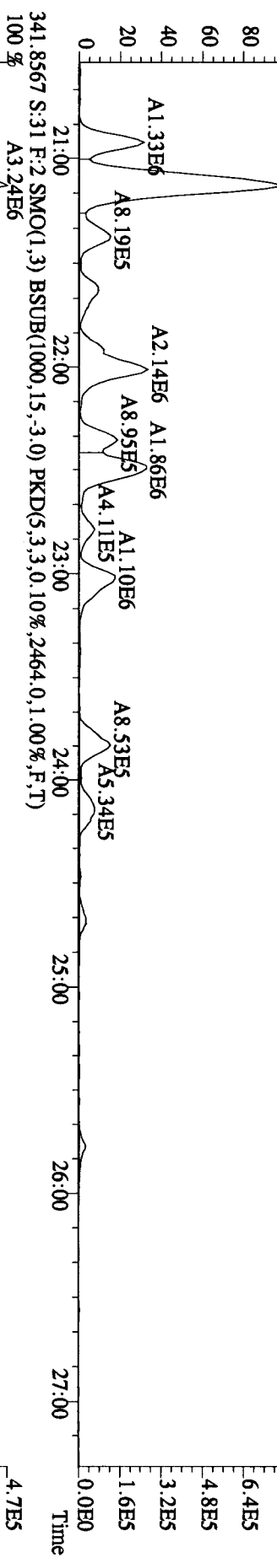
331.9368 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2632.0,1.00%,F,T)
 100%



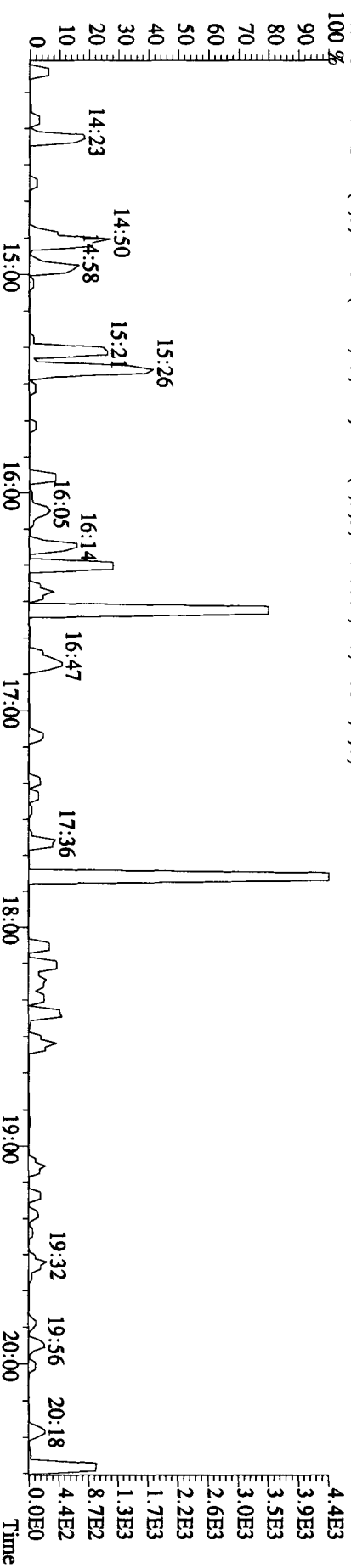
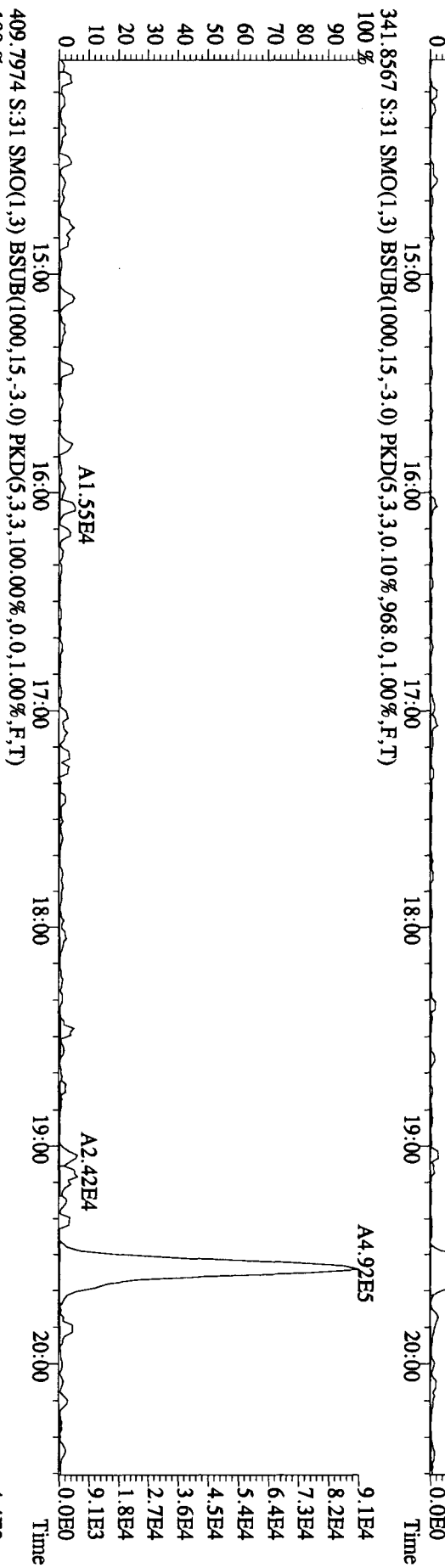
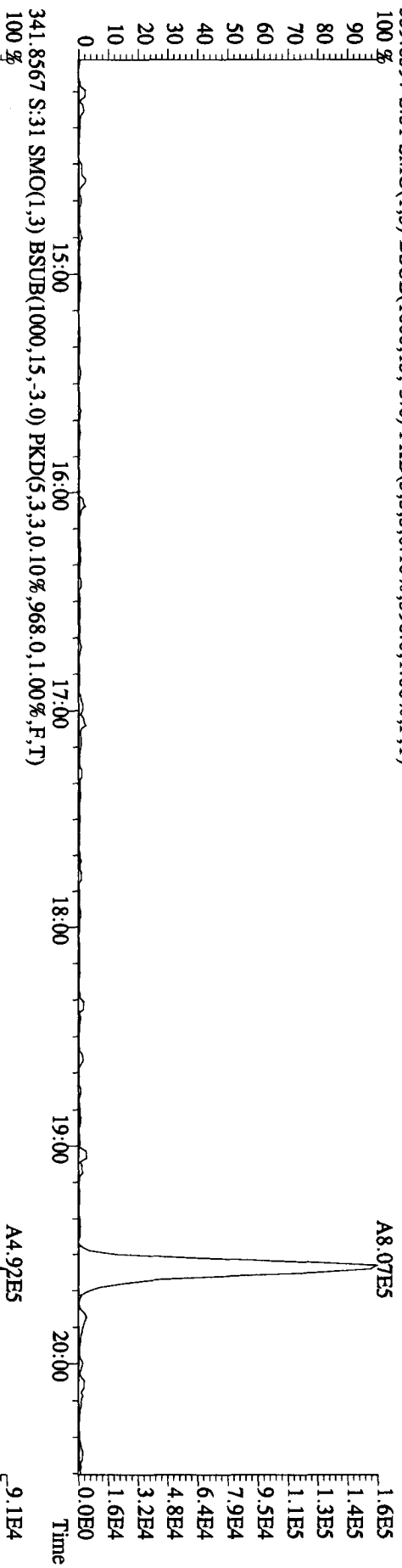
333.9339 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,564.0,1.00%,F,T)
 100%



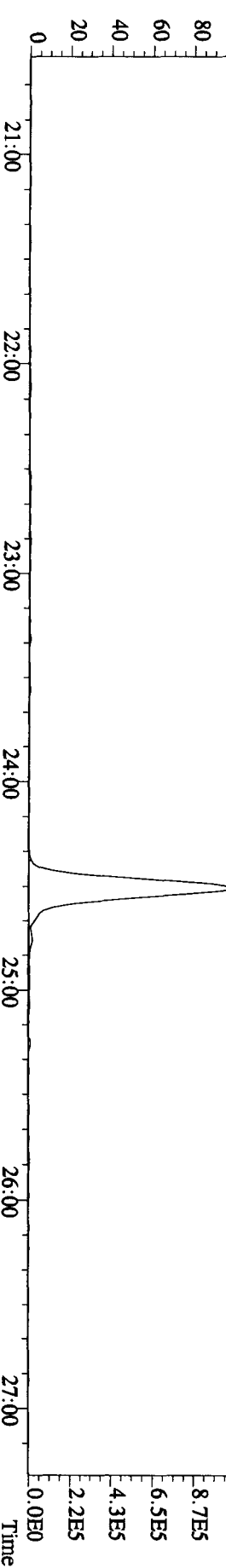
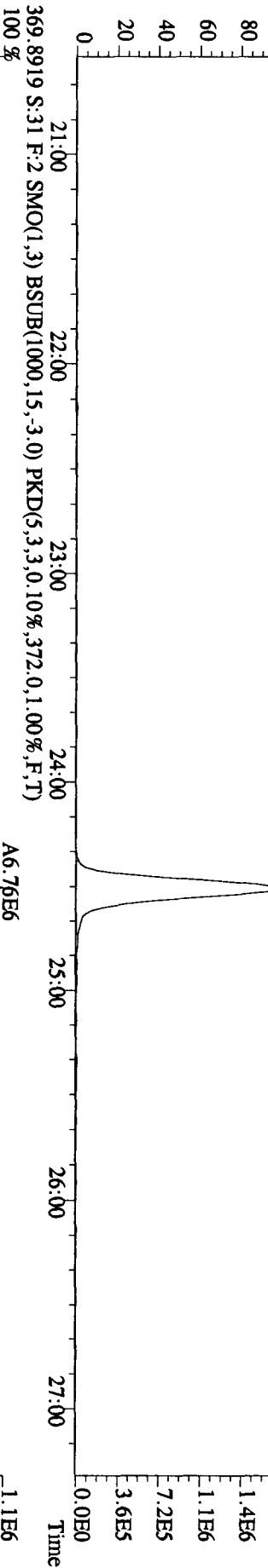
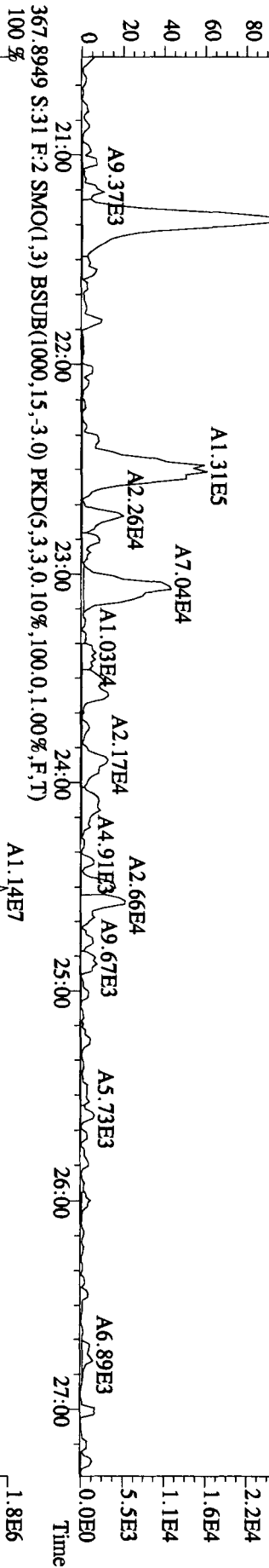
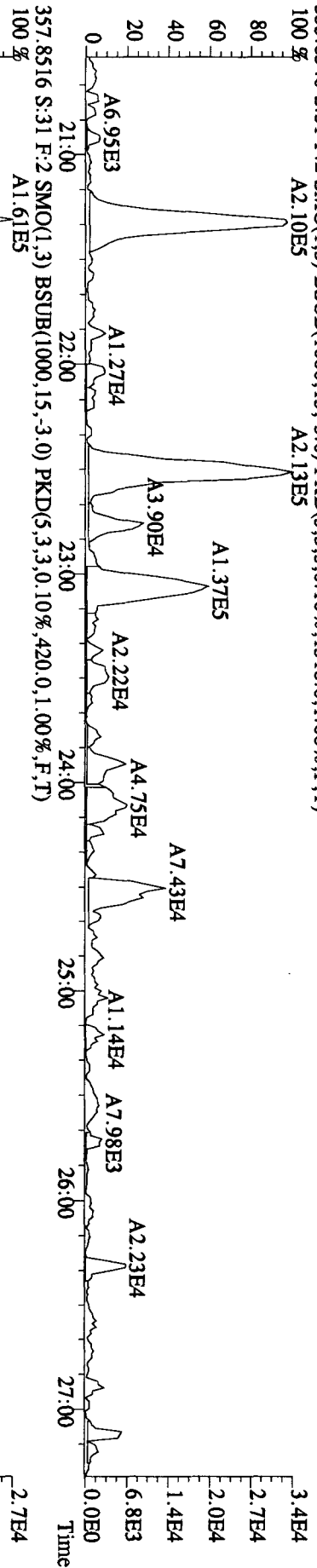
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 Sample#31 Text: L84M1-1-AA : G0J260480-3 Exp: DIOXINRES
 339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3500,0.1,00%,F,T)
 100 % A5.28E6



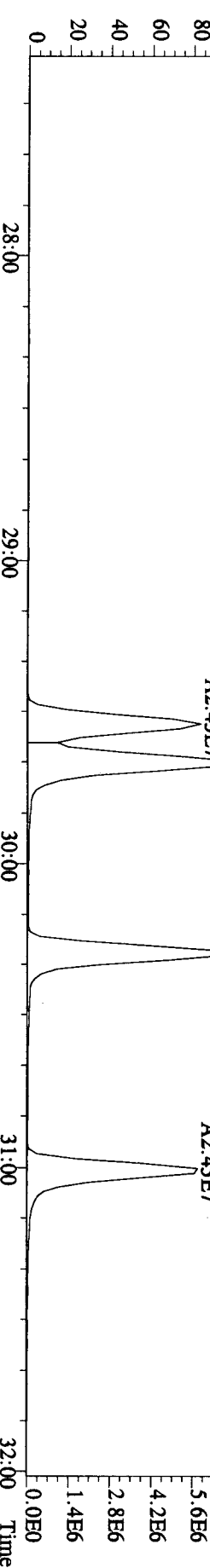
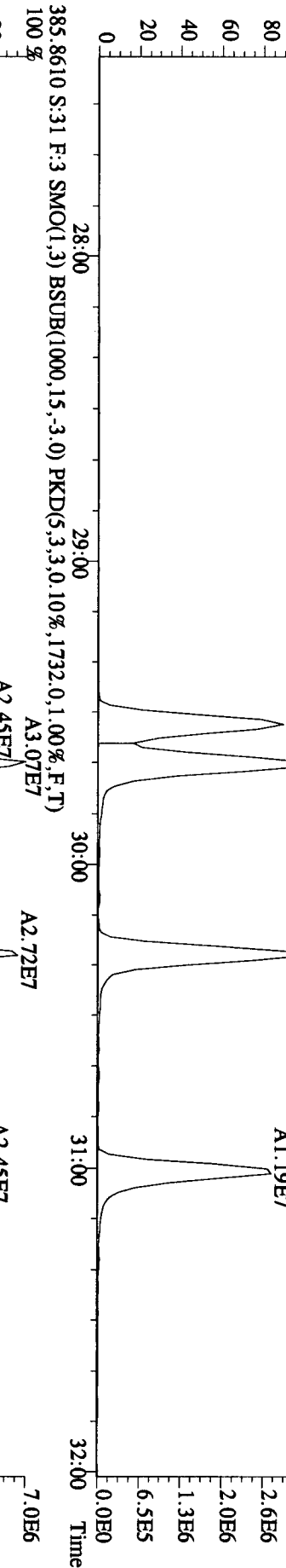
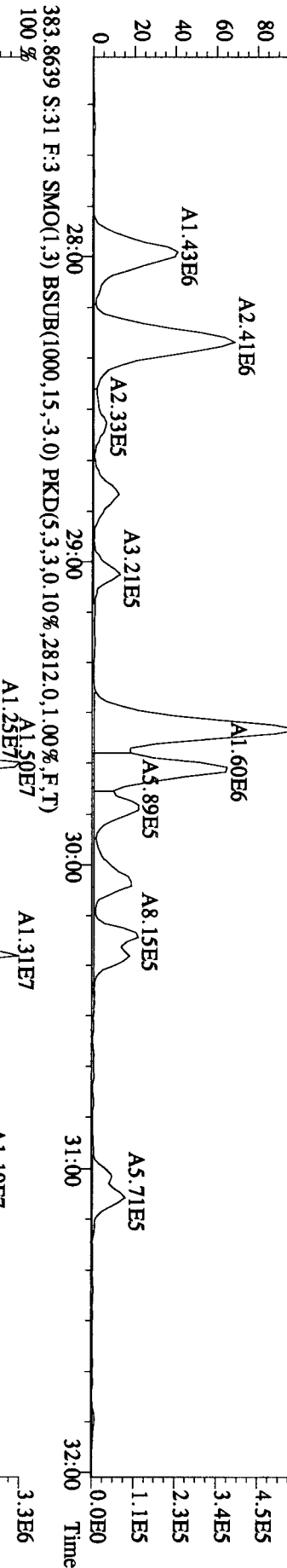
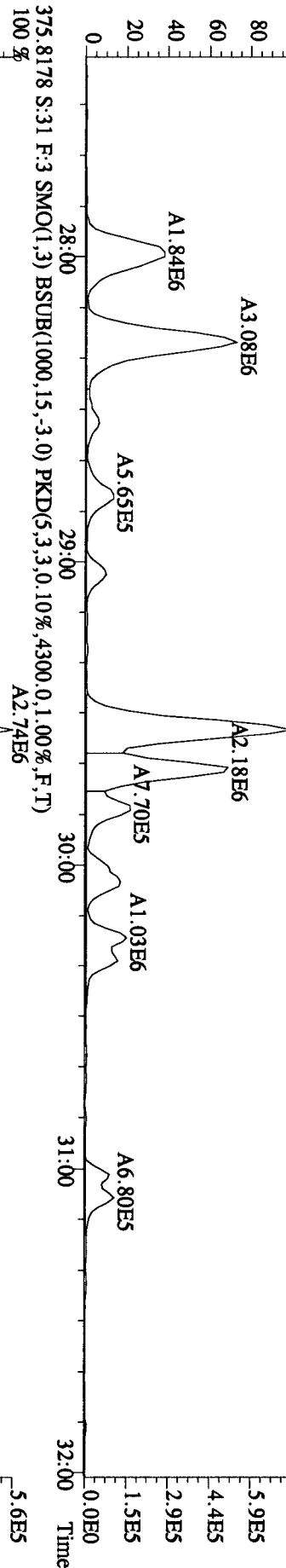
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text: L84M1-1-AA :G0J260480-3 Exp: DIOXINRES
 339,8597 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,396.0,1.00%,F,T)



File: 02N010A1D5 #1-423 Acq: 3-NOV-2010 12:01:04 GC EI + Voltage SIR 70SE
 Sample#31 Text: L84M1-1-AA :G0J260480-3 Exp: DIOXINRES
 355.8546 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1516,0.1,0.00%,F,T)
 100% A2.10E5 A2.13E5



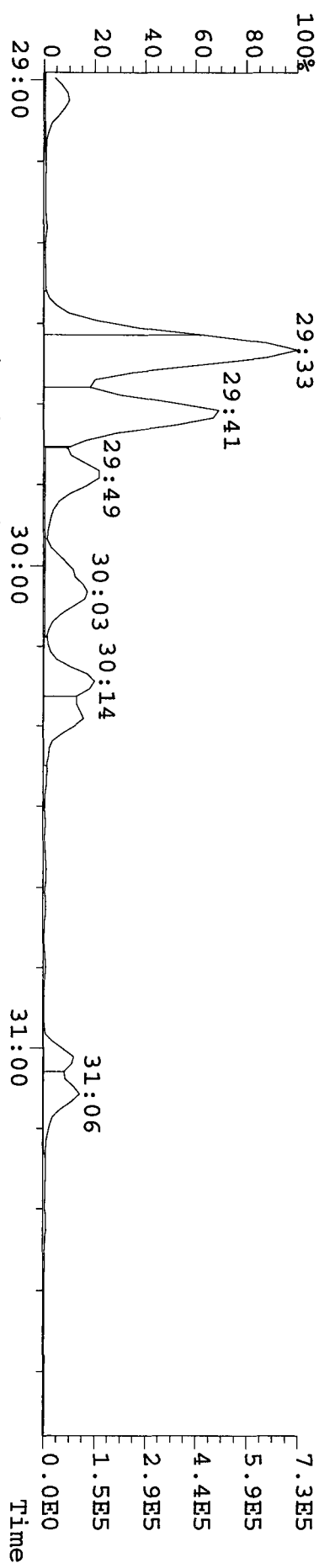
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text:L84M1-1-AA :G0J260480-3 Exp:DIOXINRES
 373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5540,0.1,00%,F,T) A3.60E6



File: 02N010A1D5 #1-301 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE

Sample#31 Text: L84M1-1-AA : G0J260480-3 Exp: DIOXINRES

373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5540.0,1.00%,F,T) 100%

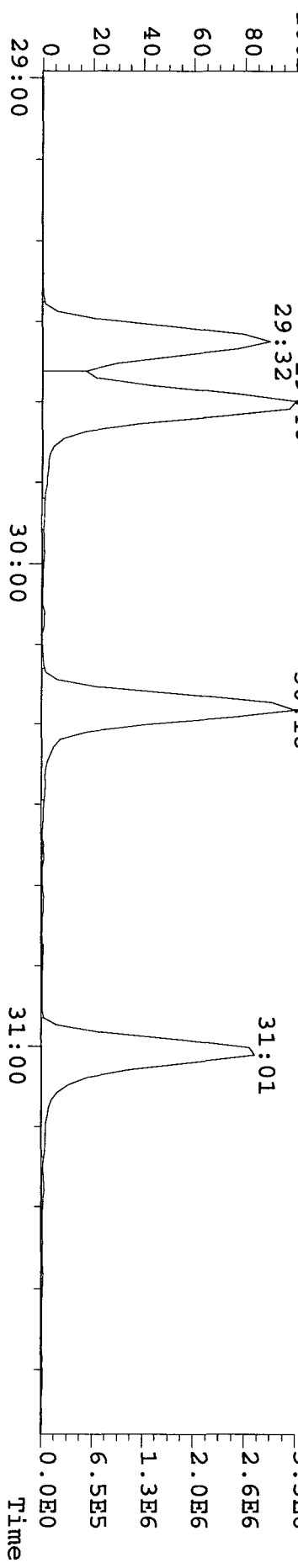


Manual Edit Codes

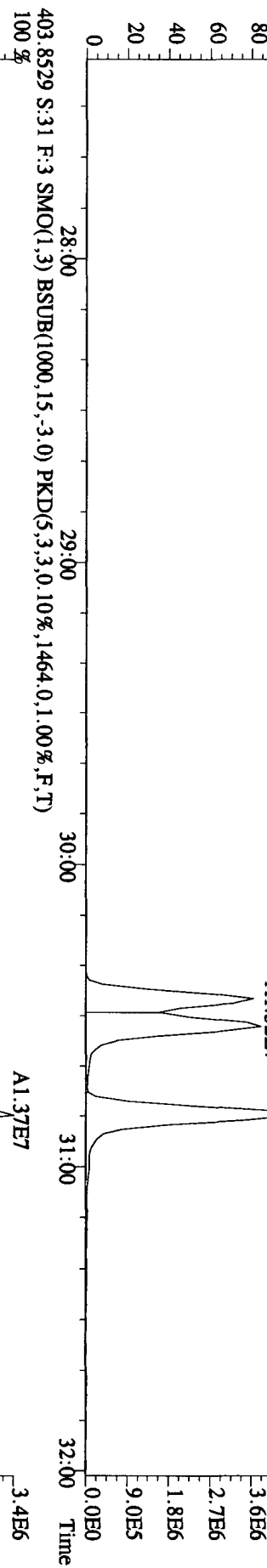
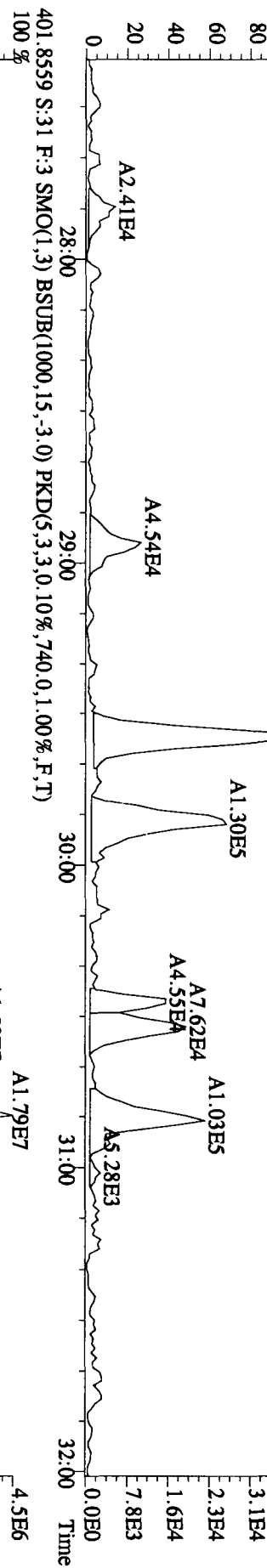
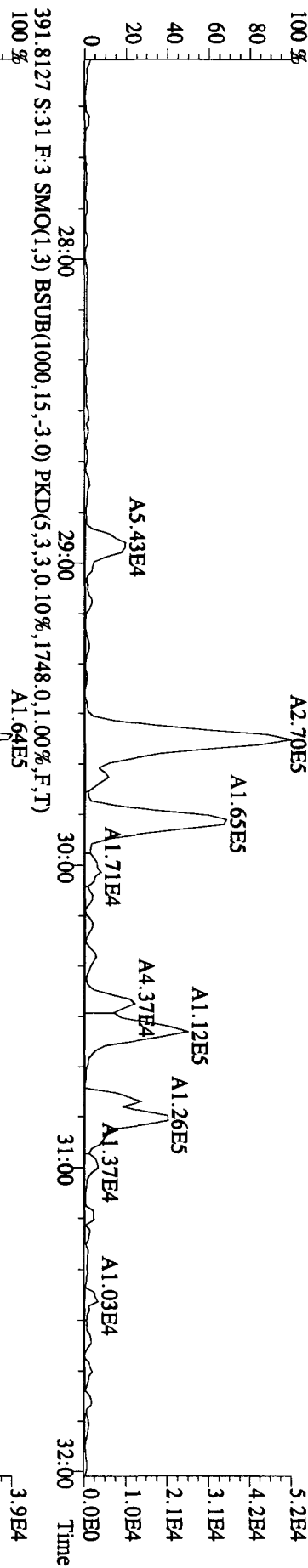
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst 02 Date 11-1-10

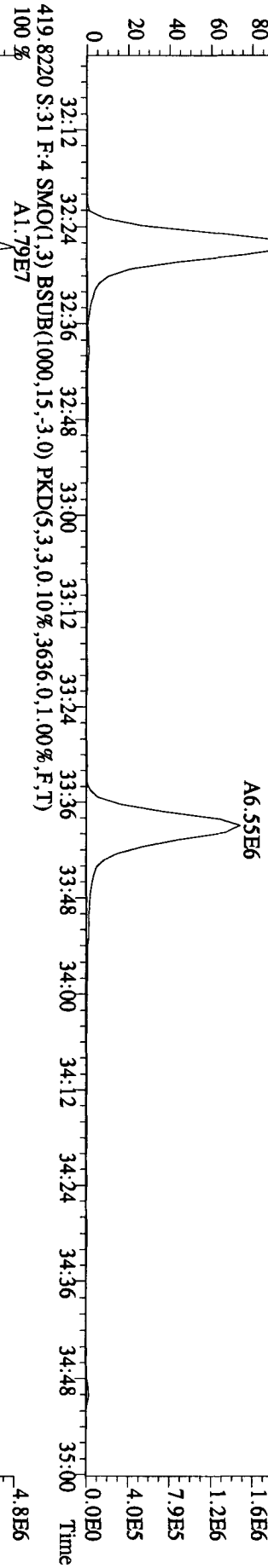
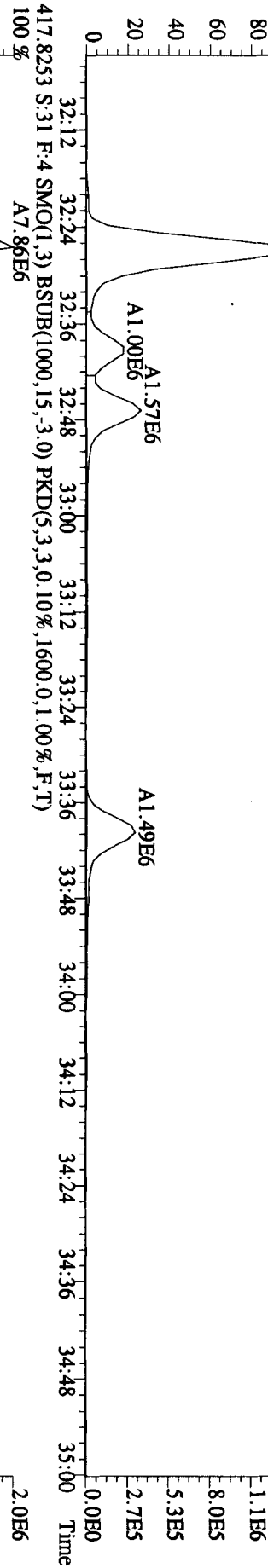
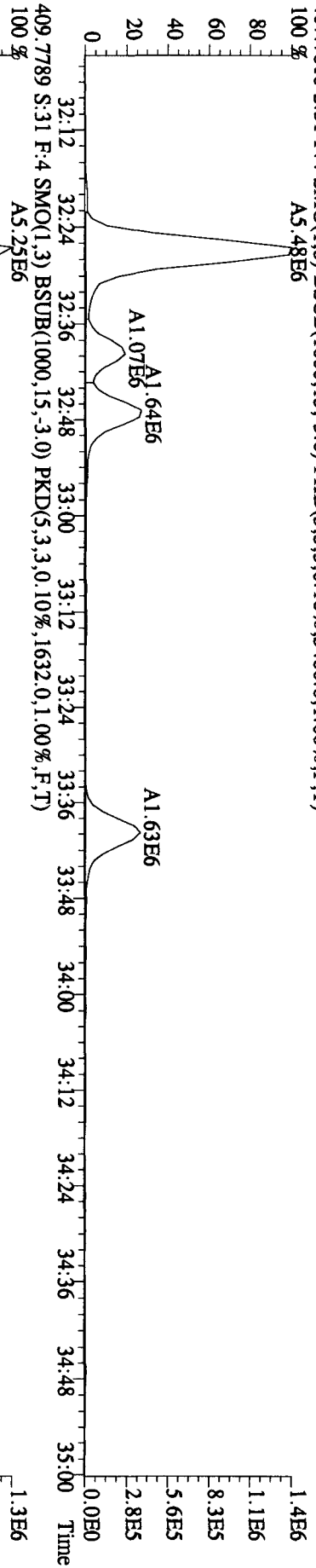
383.8639 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2812.0,1.00%,F,T) 100%



File: 02NO10A1ID5 #1-301 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text: L84M1-1-AA :G0J260480-3 Exp: DIOXINRES
 389.8157 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)
 100%

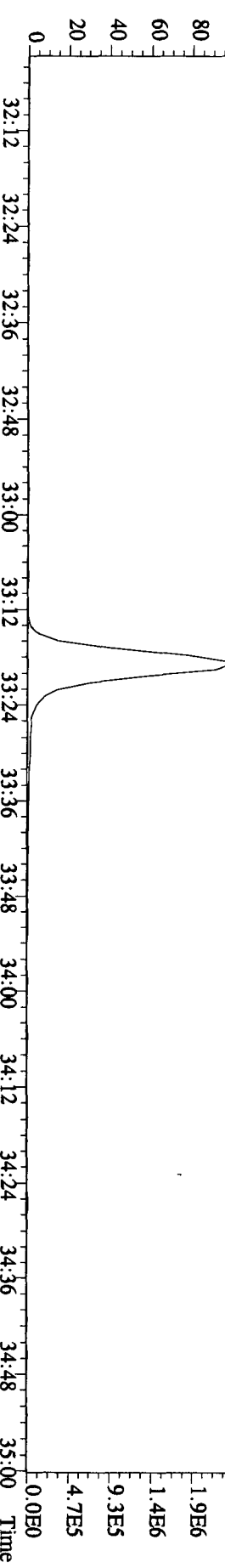
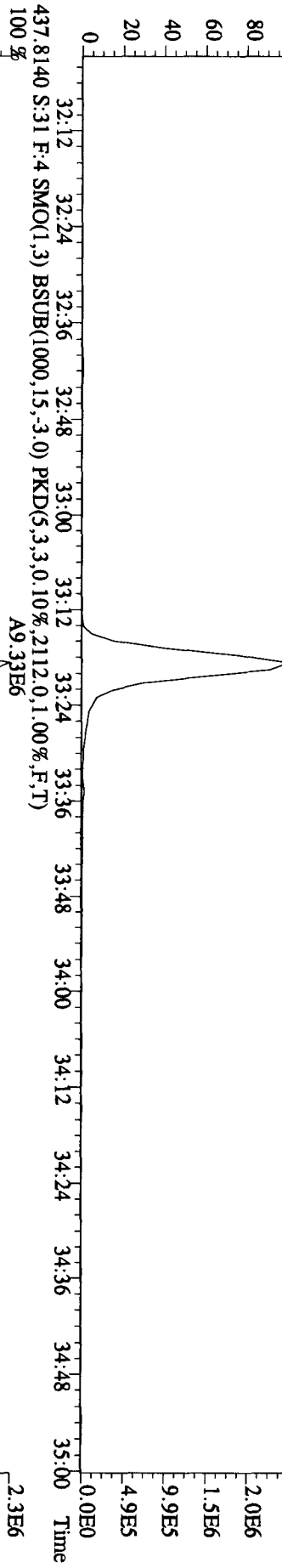
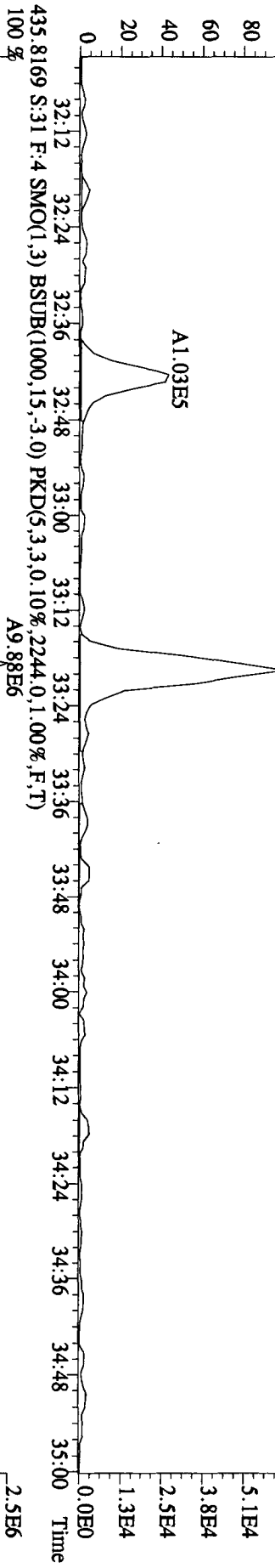
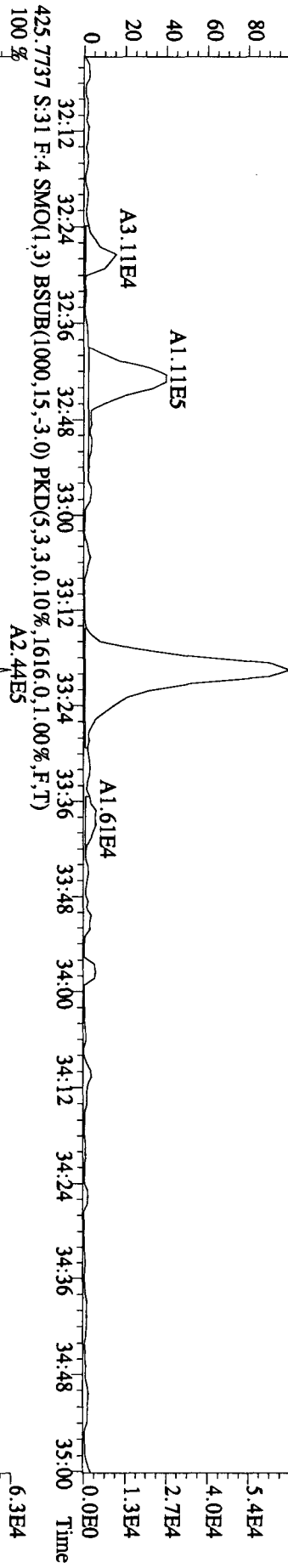


407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5460,0,1,00%,F,T)



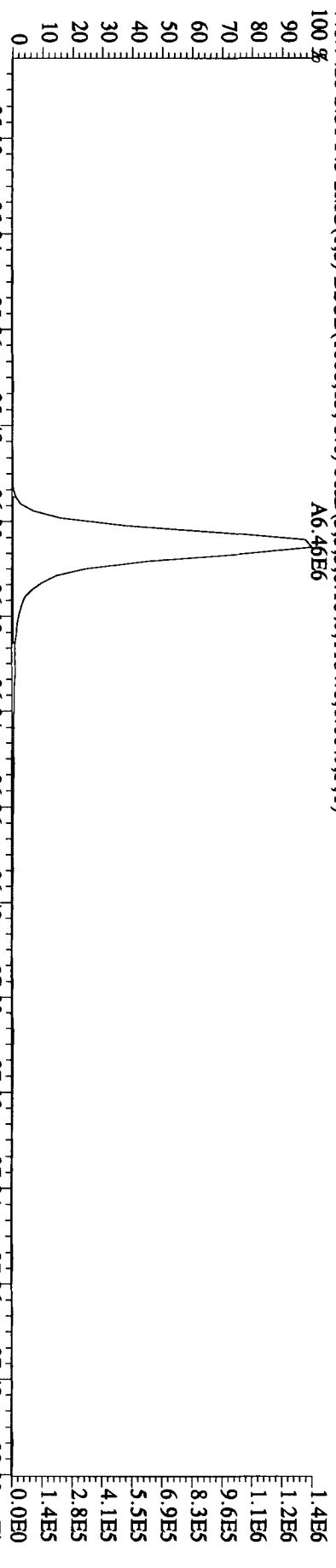
File: 02NO10A1D5 #1-202 Acq: 3-NOV-2010 12:01:04 GC EI + Voltage SIR 70SE
Sample#31 Text: L84M1-1-AA :G0J260480-3 Exp: DIOXINRES

423.7766 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1900,0,1.00%,F,T)
100% A2.96E5



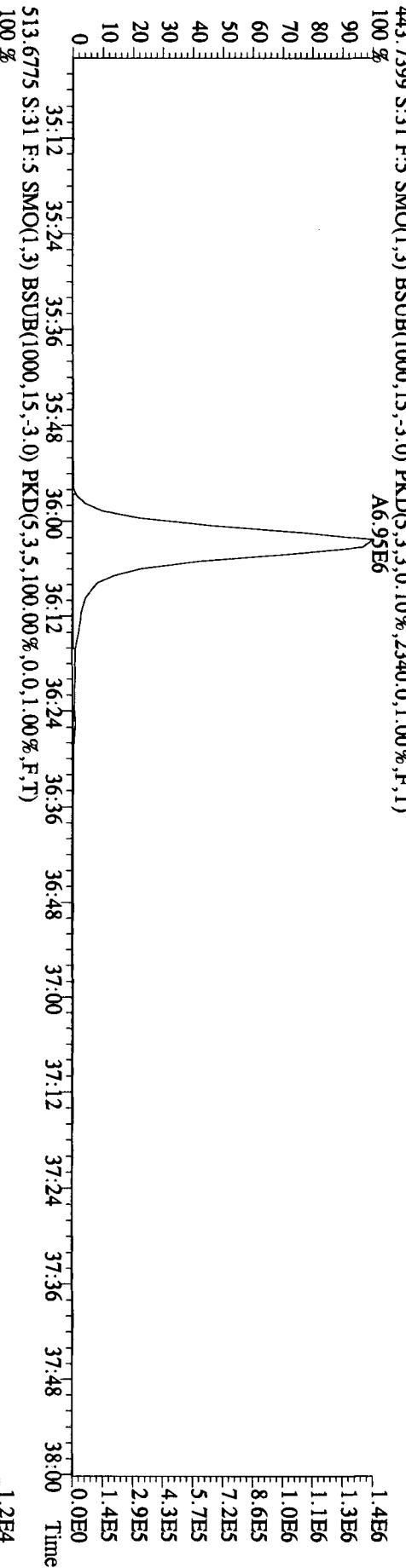
441.7428 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184,0.1,0.0%,F,T)

A6.46E6

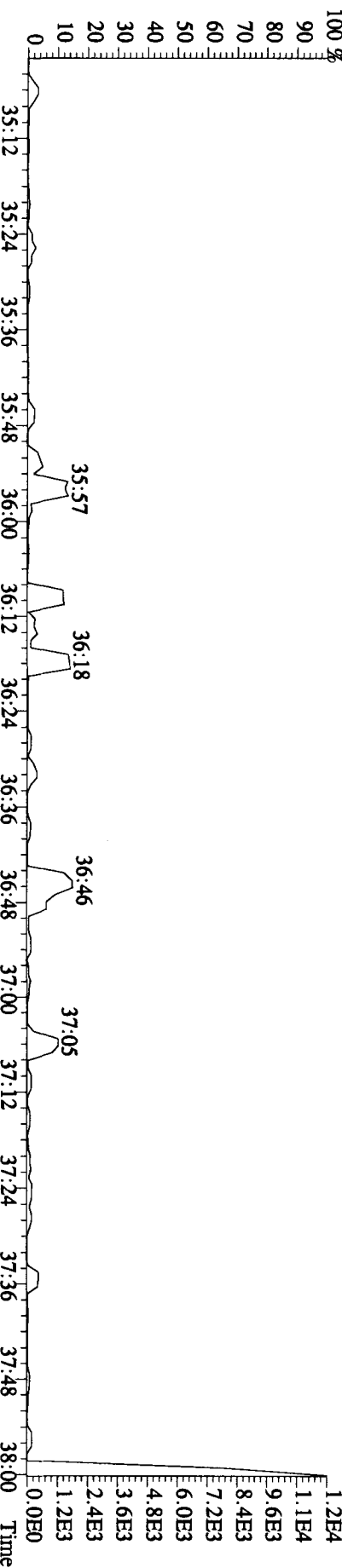


443.7399 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340,0.1,0.0%,F,T)

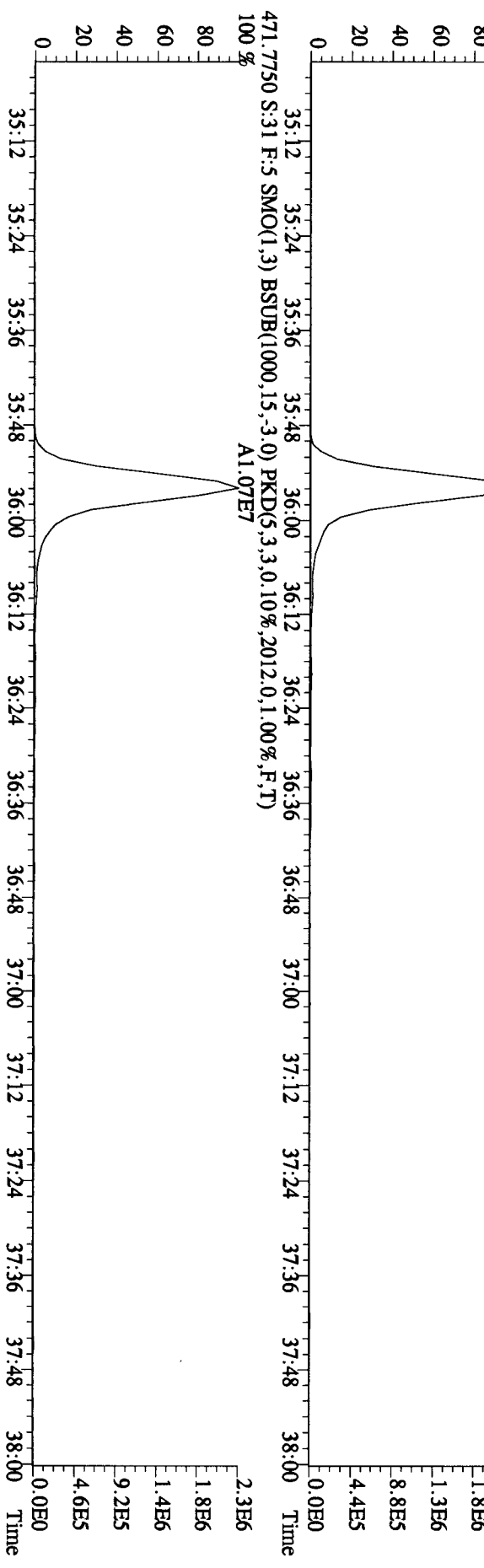
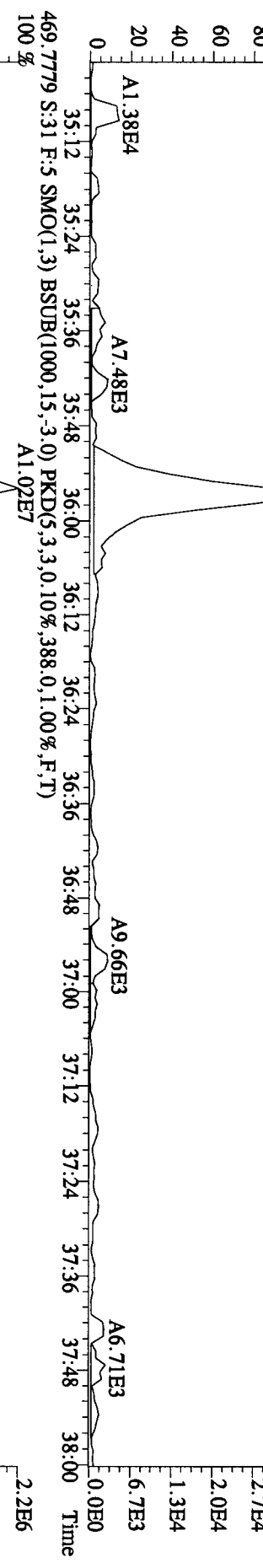
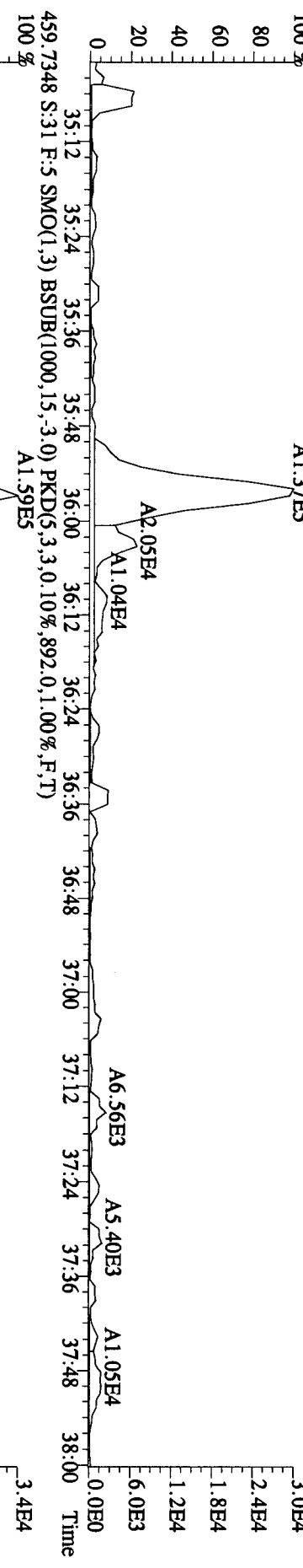
A6.95E6

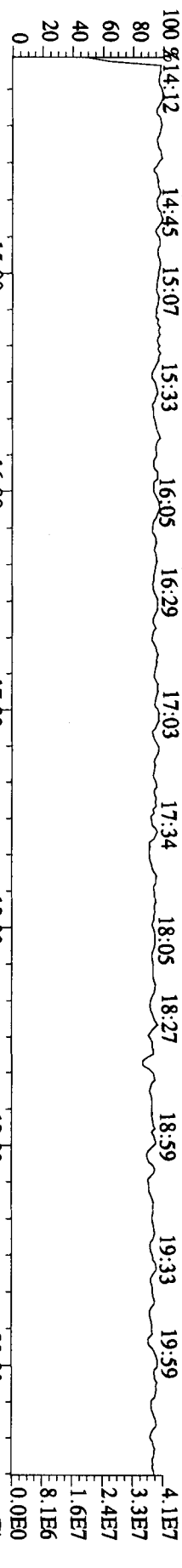


513.6775 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

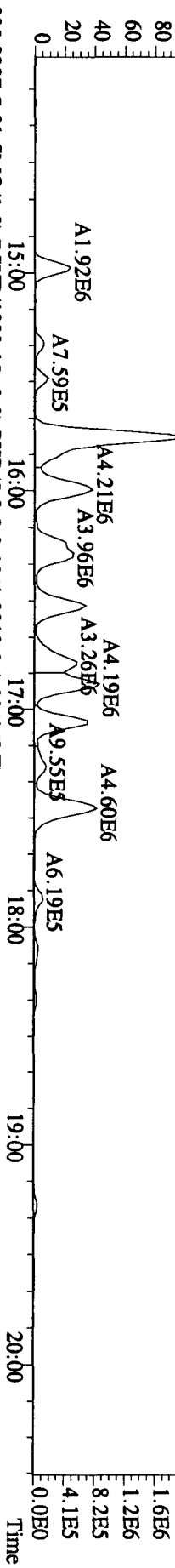


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 12:01:04 GC EI+ Voltage SIR 70SE
 Sample#31 Text:L84M1-1-AA :G0J260480-3 Exp:DIOXINRES
 457.7377 S:31 F:5 SMO(1,3) BSUBR(1000,15,-3.0) PKD(5,3,3,0.10%,576.0,1.00%,F,T)
 100% A1.37E5

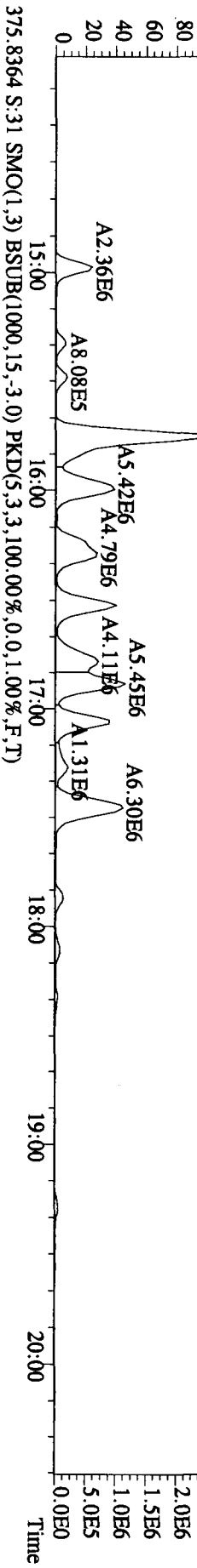




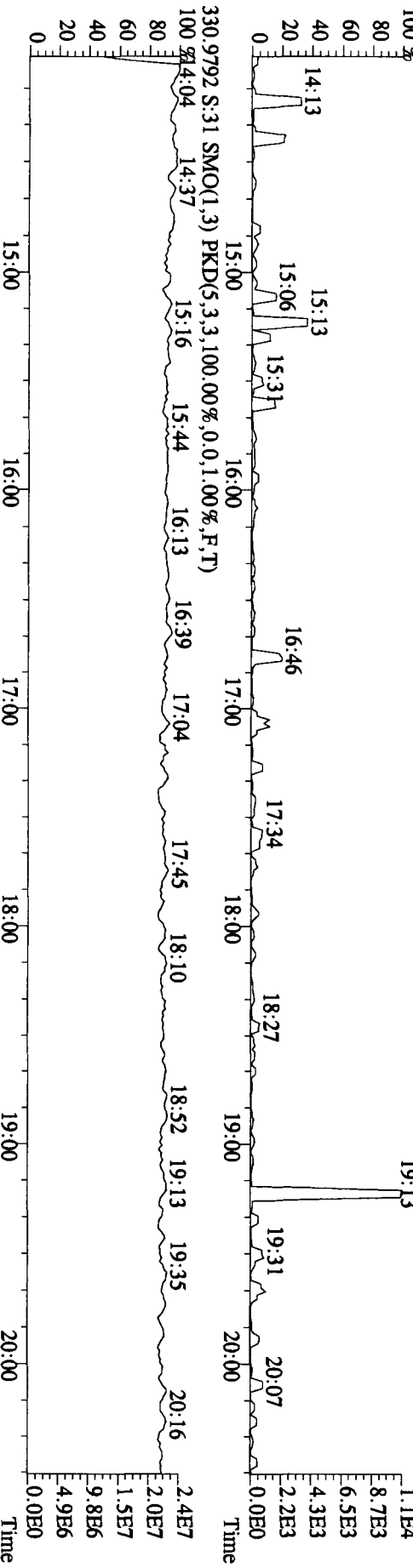
303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2740,0,1.00%,F,T)



305.8987 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2312,0,1.00%,F,T)



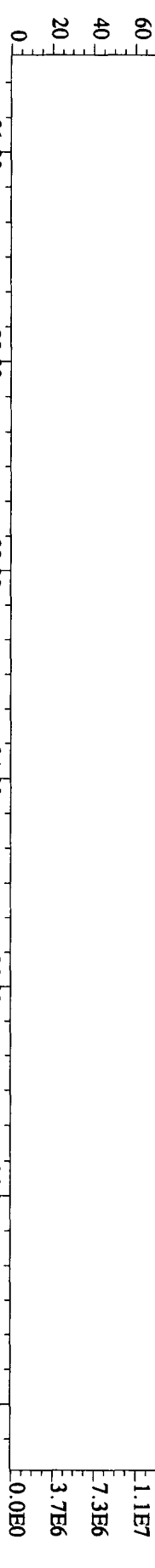
375.8364 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



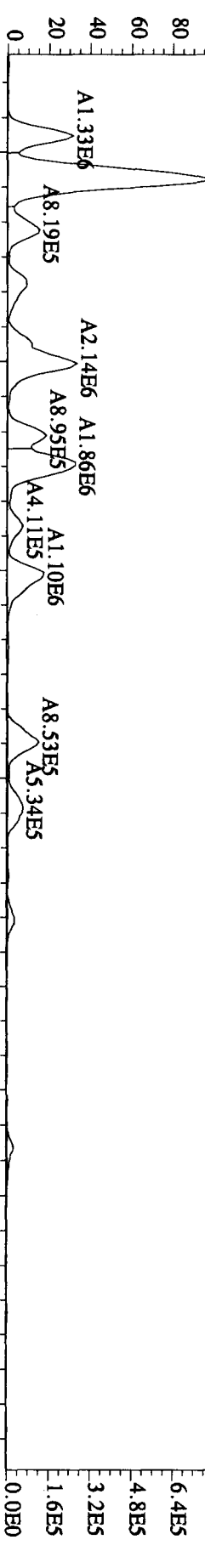
Sample#31 Text:L84M1-1-AA :G0J260480-3 Exp:DIOXINRES

342.9792 S:31 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

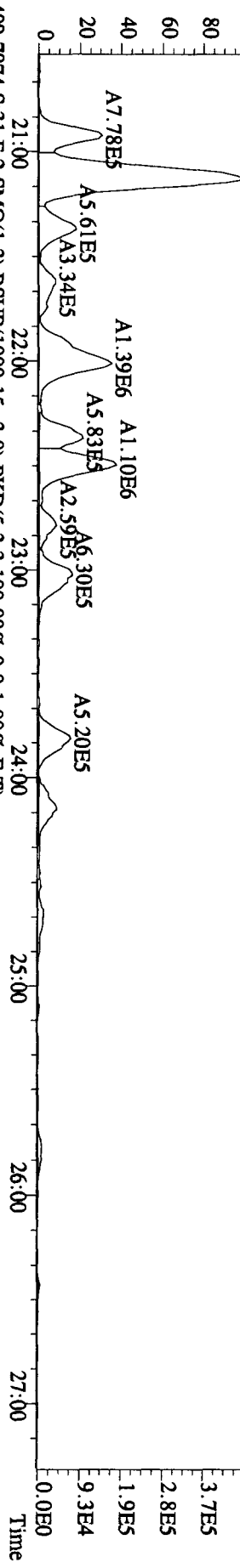
100 % 20.43 21.18 21.45 22.09 22.31 22.52



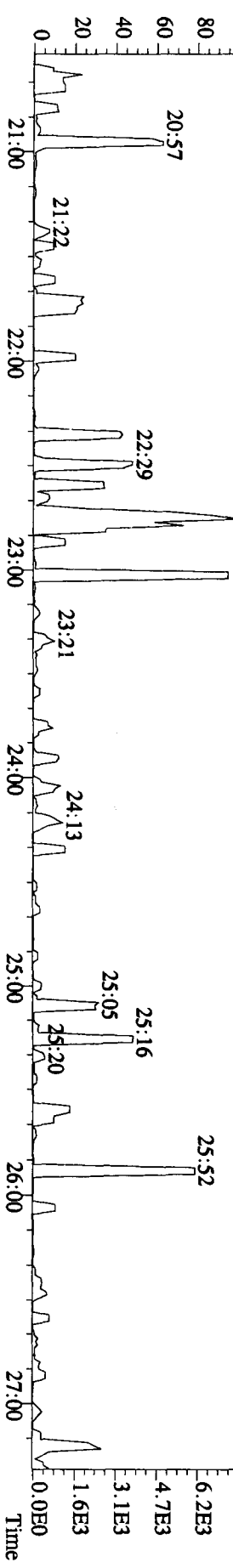
339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3500,0,1,00%,F,T)

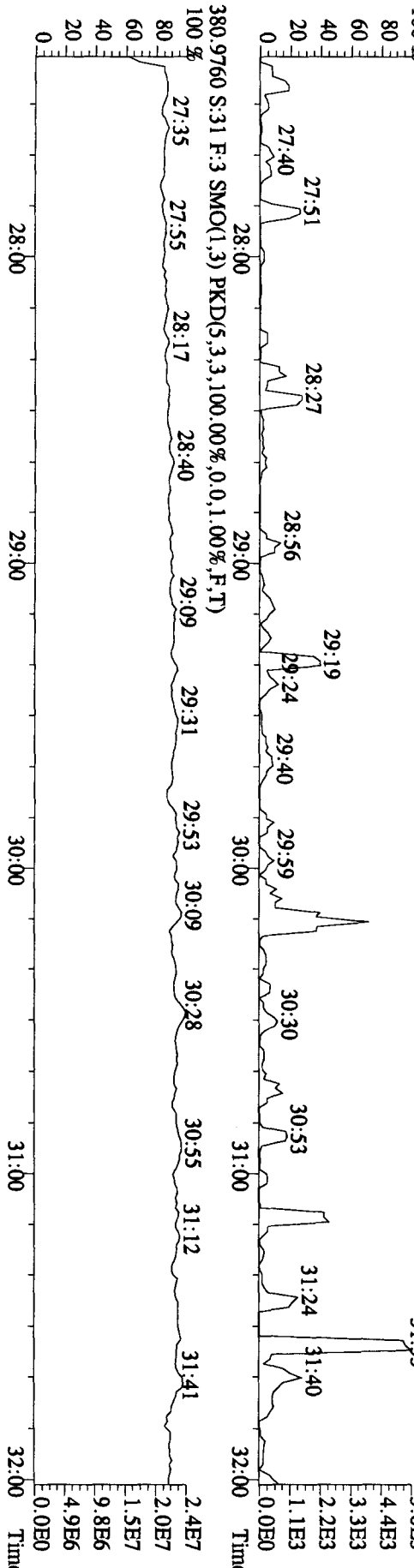
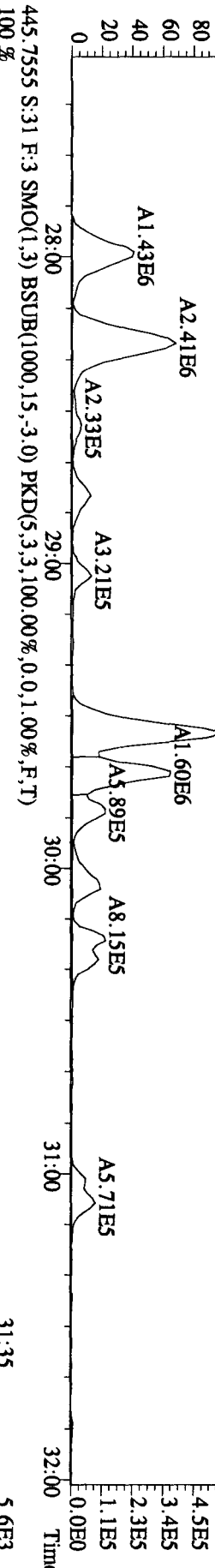
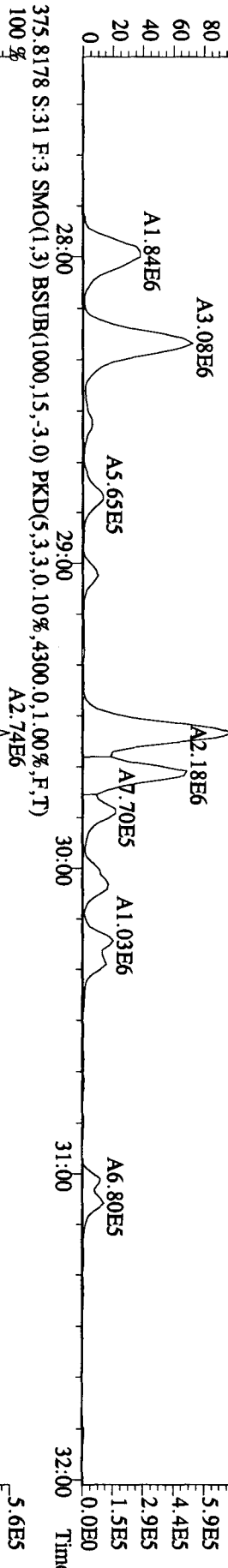
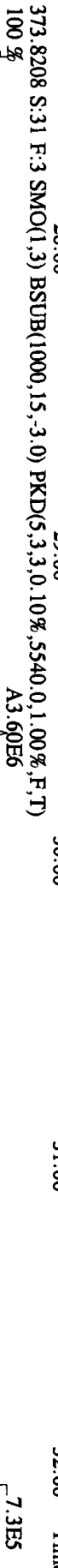
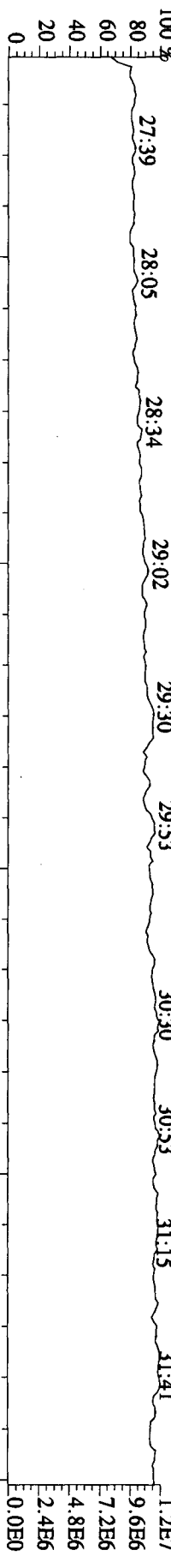


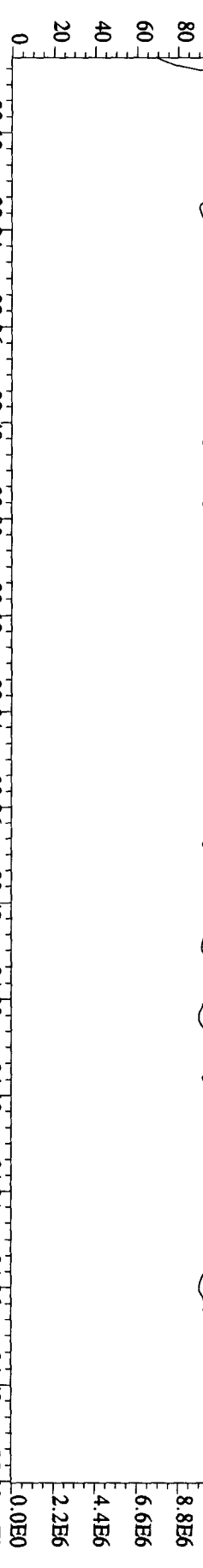
341.8567 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2464,0,1,00%,F,T)



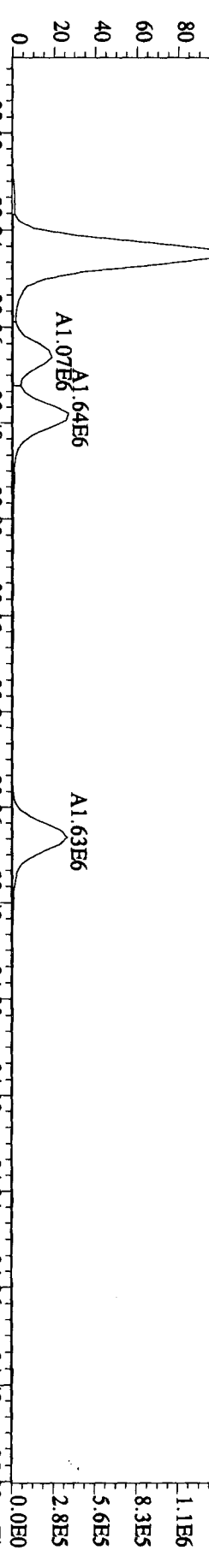
409.7974 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



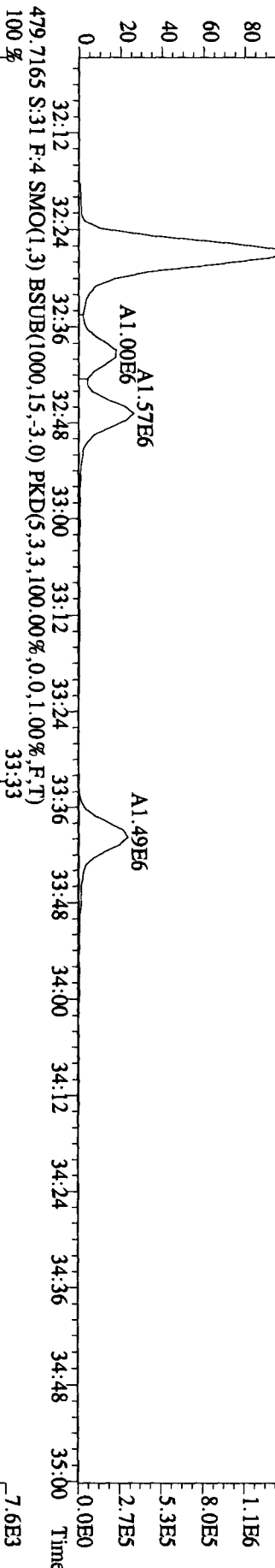




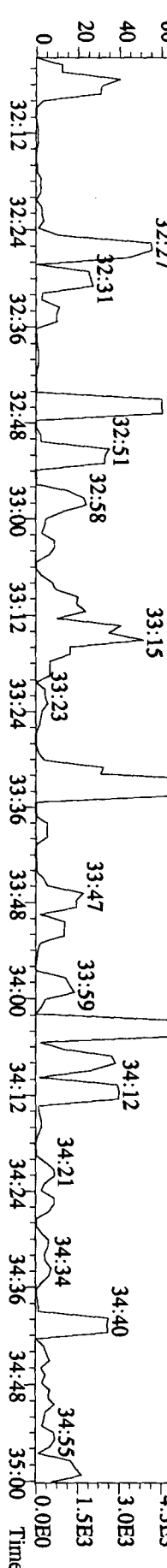
407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5460,0,1,00%,F,T)
100% A5.48E6



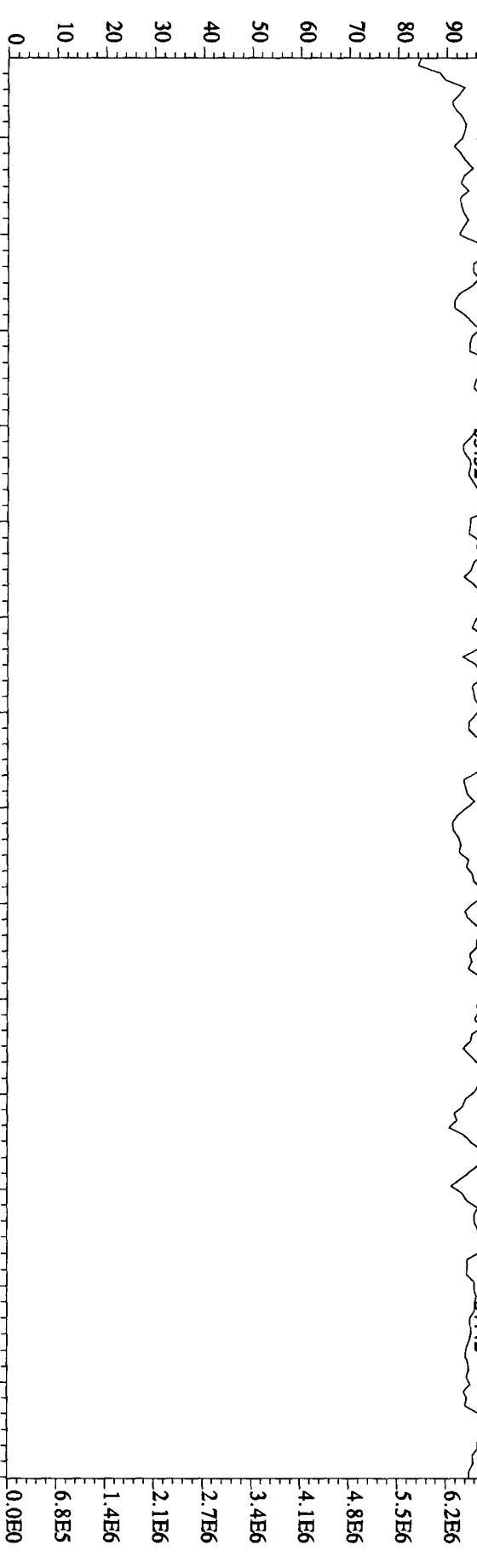
409.7789 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1632,0,1,00%,F,T)
100% A5.25E6



479.7165 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

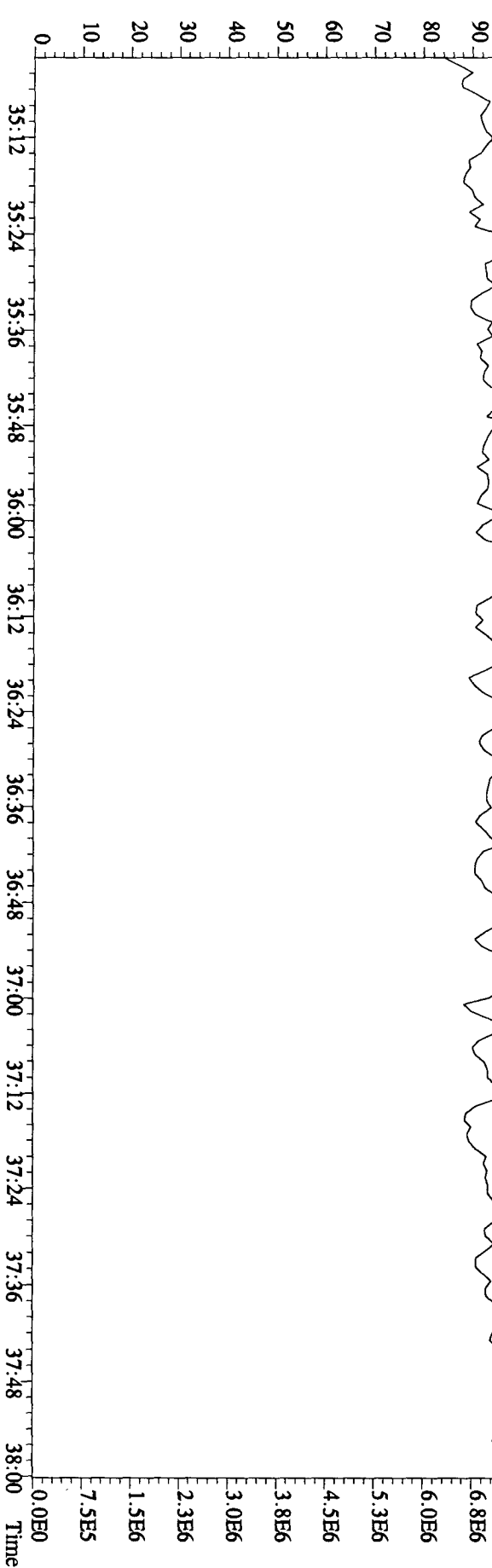


100 % 35:16 35:26 35:36 35:47 35:57 36:10 36:28 36:47 36:59 37:09 37:20 37:30 37:42 37:54



442 9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 35:12 35:26 35:30 35:48 36:00 36:08 36:31 36:41 36:50 36:58 37:13 37:26 37:47



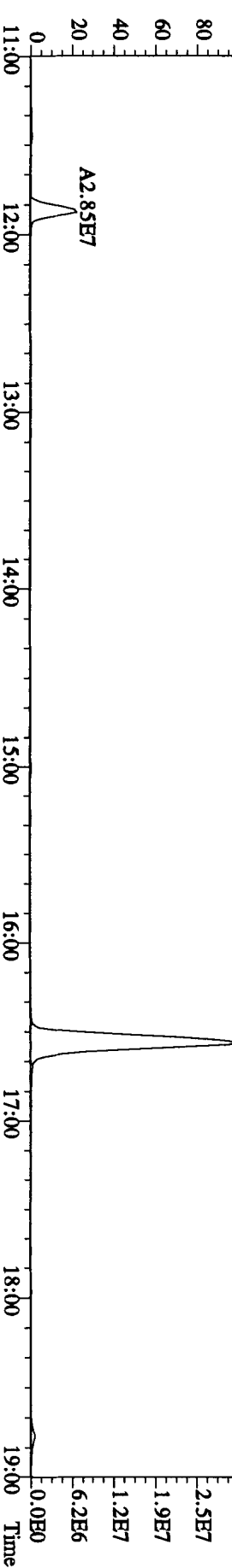
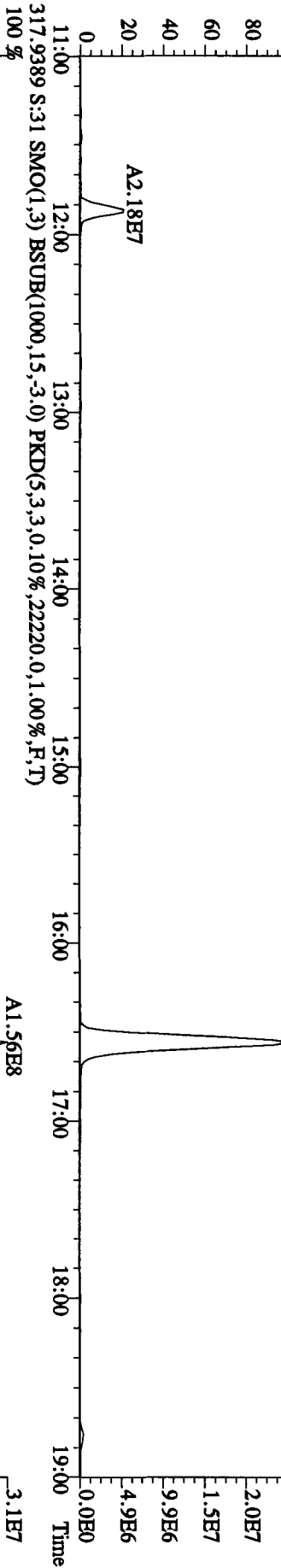
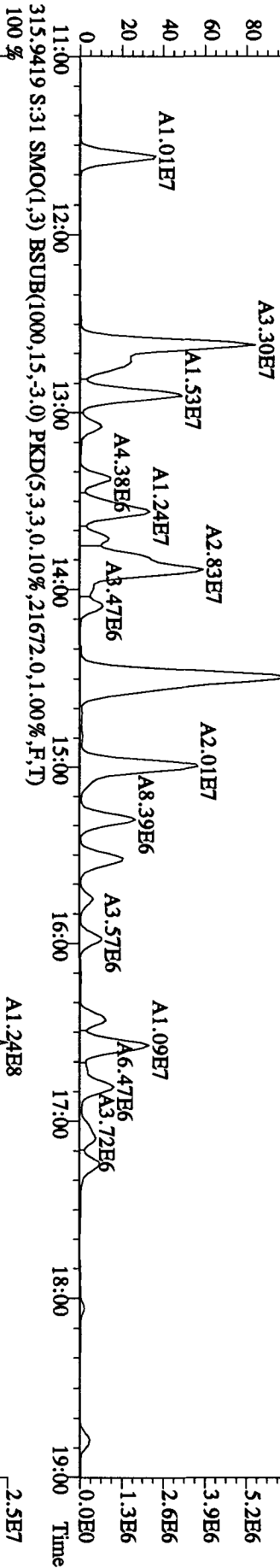
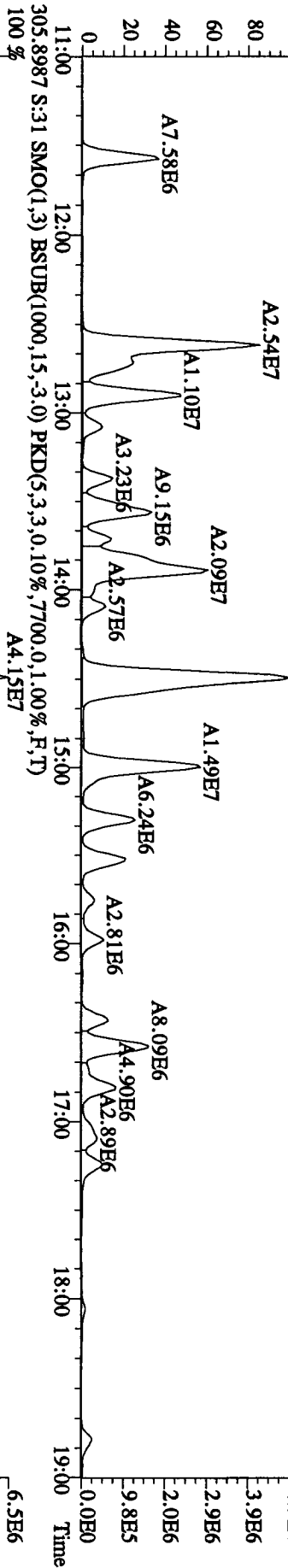
Run text: L84M1-1-AA Sample text: L84M1-1-AA :G0J260480-3
 Run #12 Filename: 04NO105D2 S: 31 I: 1 Results: 04NO105D2DB225AIR
 Acquired: 5-NOV-10 02:35:16 Processed: 5-NOV-10 08:39:55
 Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAM

*0.5
11-5-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	165856000	0.78 y	15:20	-	178.59	-	-	n
					<i>3170.338</i>		<i>79.3</i>	
13C-2,3,7,8-TCDF	280024000	0.80 y	16:34	1.84 <i>2.135</i>	1127.76	9.83	103.2	n
2,3,7,8-TCDF	19039960	0.74 y	16:34	1.06	256.70	2.80	-	n
13C-2,3,7,8-TCDD	142367100	0.77 y	15:02	0.96	3587.31	12.19	89.7	n
2,3,7,8-TCDD	1074192	0.77 y	15:06	1.24	24.37	3.73	-	n
37C1-2,3,7,8-TCDD	78769600	1.00 y	15:04	1.54	1441.05	4.35	90.1	n

*11/5/10
KSS*

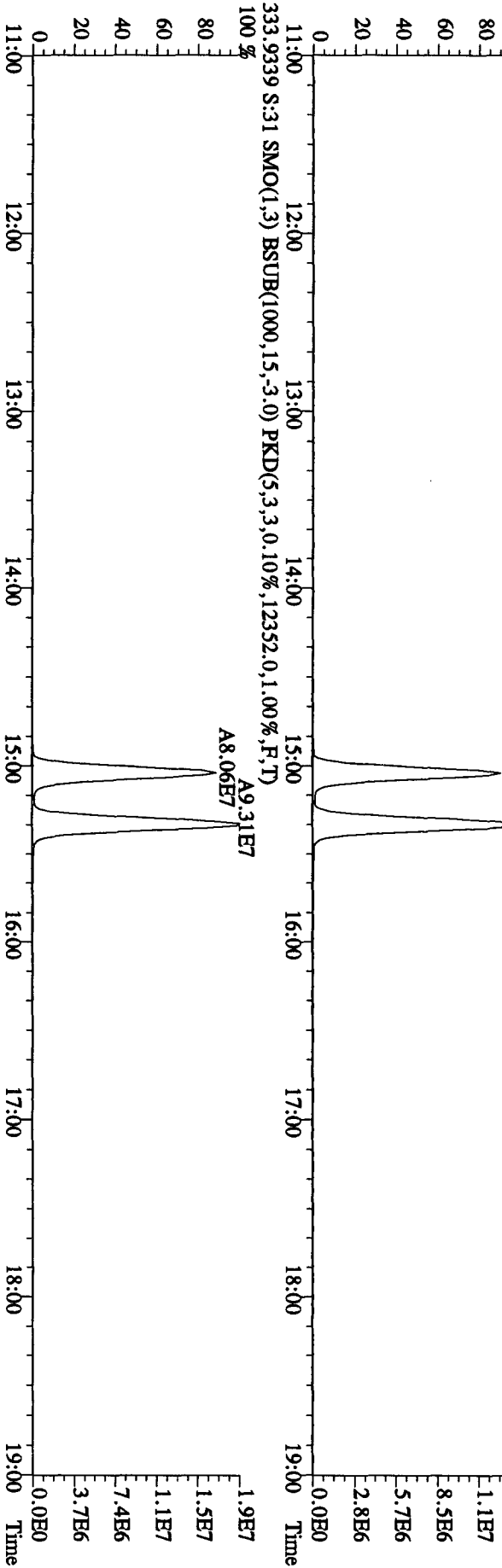
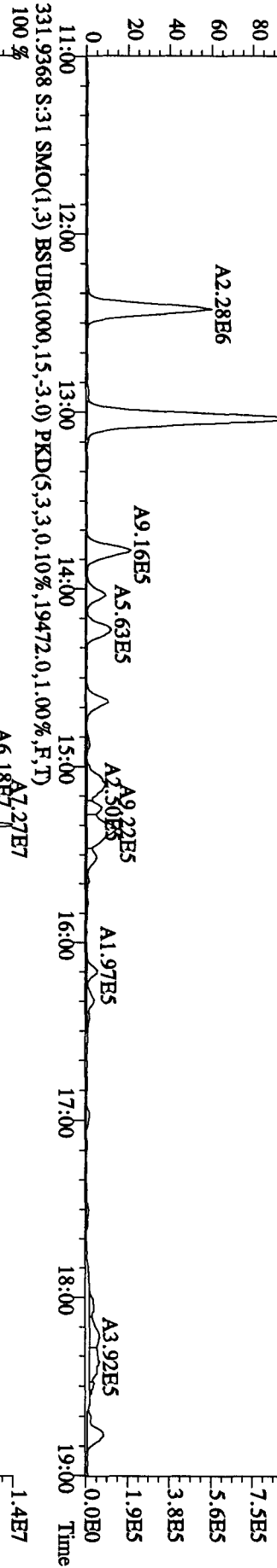
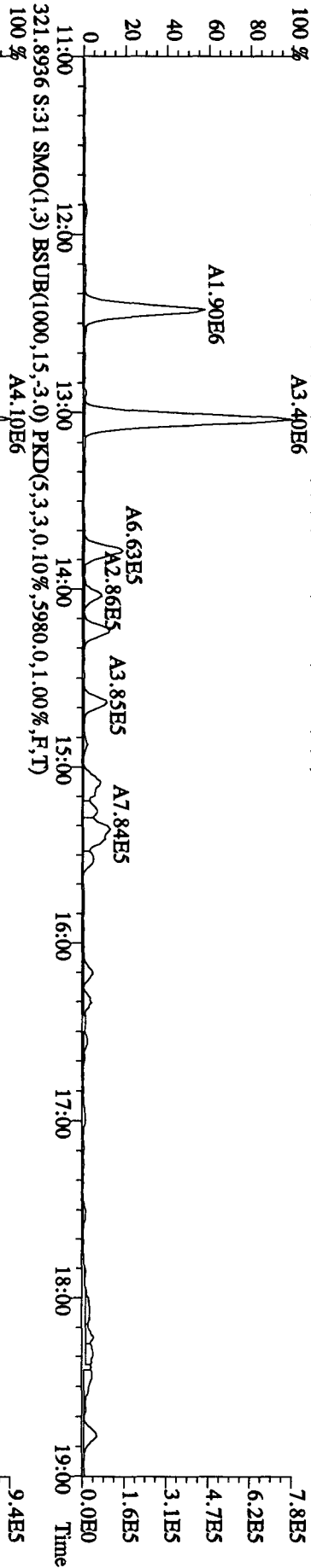
File:04NO105D2 #1-1242 Acq: 5-NOV-2010 02:35:16 GC EI+ Voltage SIR 70SE
 Sample#31 Text:1.84M1-1-AA :G0J260480-3 Exp:DB225RES
 303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6048,0,1.00%,F,T)
 100 %



File:04ANO105D2 #1-1242 Acq: 5-NOV-2010 02:35:16 GC EI+ Voltage SIR 70SE

Sample#31 Text:L84M1-1-AA :G01260480-3 Exp:DB25RES

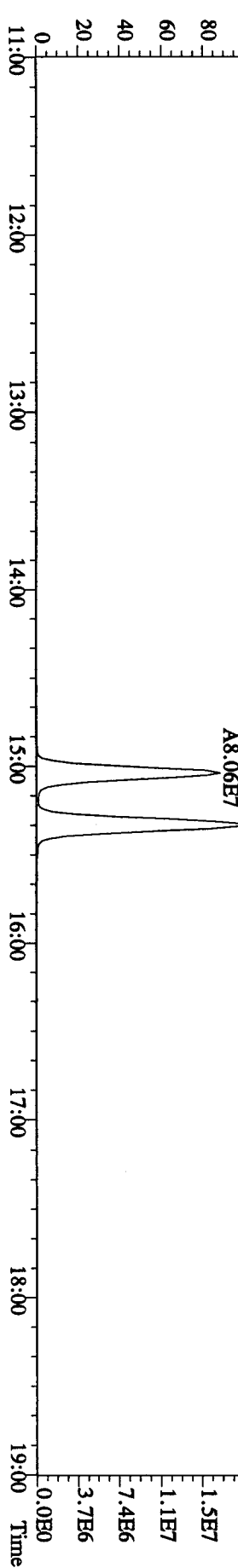
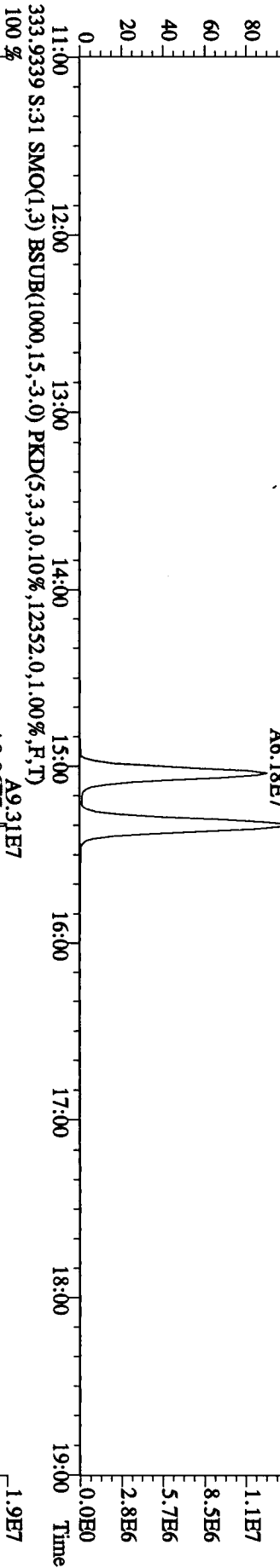
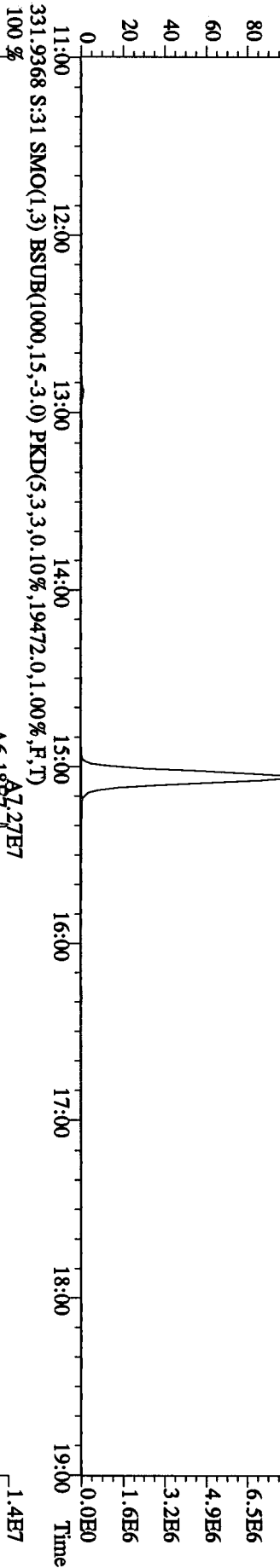
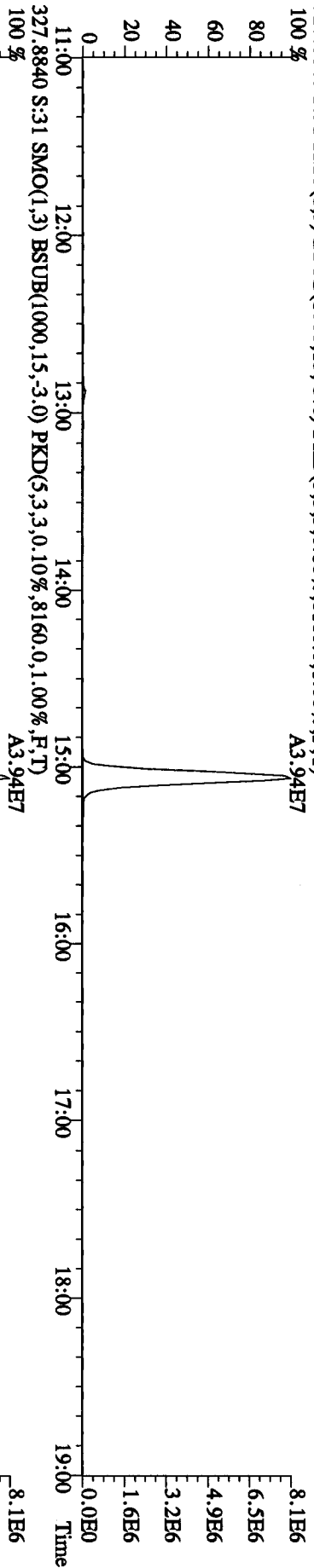
319.8965 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5316,0.1,0.00%,F,T)



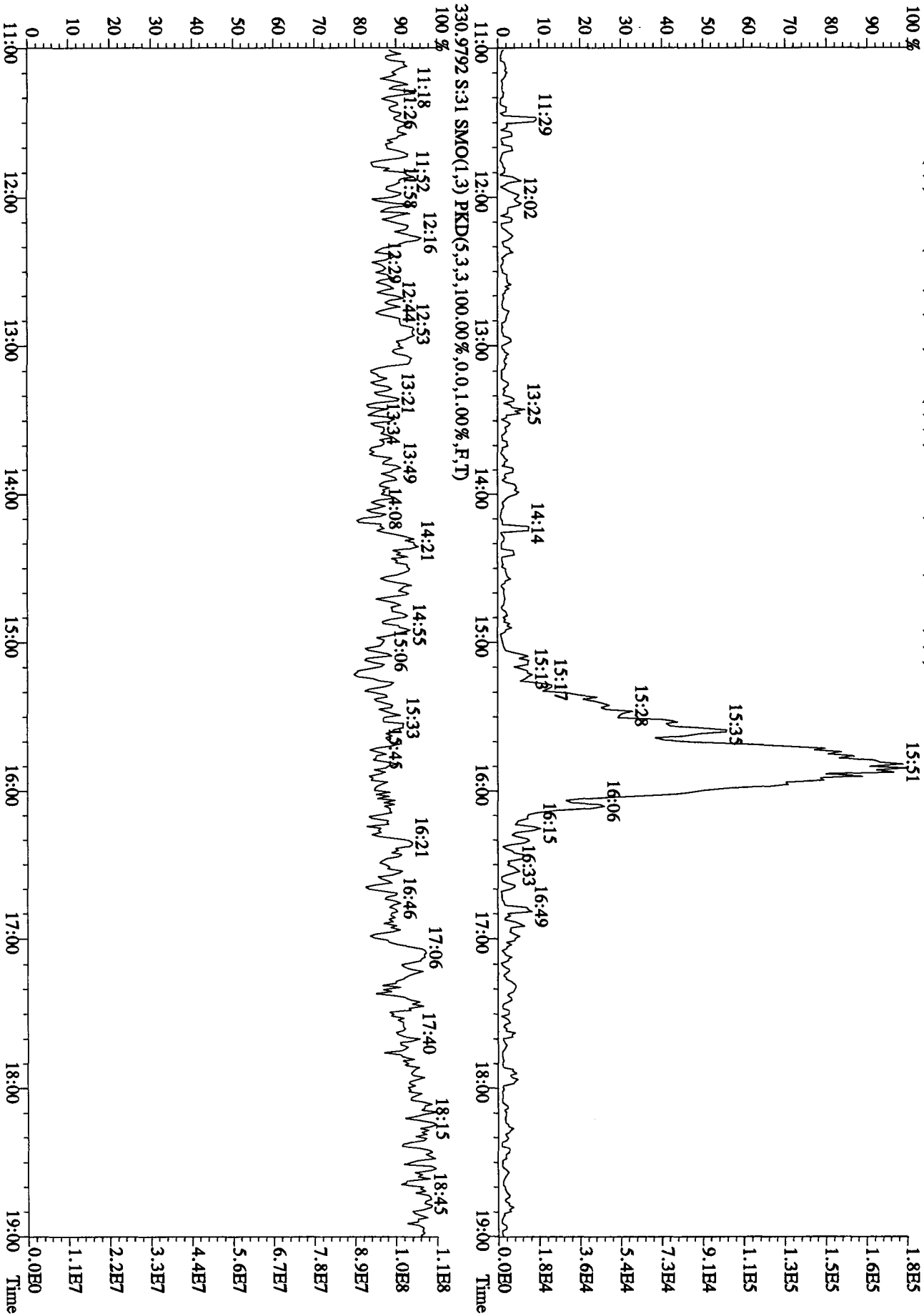
File:04NO105D2 #1-1242 Acq: 5-NOV-2010 02:35:16 GC EI+ Voltage SIR 70SE

Sample#31 Text:L84M1-1-AA :G0J260480-3 Exp:DB225RES

327.8840 S:3:1 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8160.0,1.00%,F,T) A3.94E7



File:04NO105D2 #1-1242 Acq: 5-NOV-2010 02:35:16 GC EI+ Voltage SIR 70SE
 Sample#31 Text:1.84M1-1-AA :G0J260480-3 Exp:DB225RBS
 375.8364 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3324.0,1.00%,F,T)



Run text: L84M7-1-AA Sample text: L84M7-1-AA :G0J260480-6
 Run #11 Filename: 02NO10A1D5 S: 32 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 12:43:53 Processed: 3-NOV-10 16:16:28
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

03
11-5-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	41725700	0.83 y	17:54	-	48.80	-	-	n
13C-2,3,7,8-TCDF	65939100	0.79 y	17:24	1.57	4014.74	0.38	100.4	n
2,3,7,8-TCDF	112971	1.06 n	17:25	0.88	$\frac{5}{n} < 2.5$ 7.81 α	2.83	-	n
Total TCDF	926937	1.32 n	14:27	0.88	64.08	2.83 11.85 ✓	-	n
13C-2,3,7,8-TCDD	34504300	0.79 y	18:07	0.99	3343.44	6.37	83.6	n
2,3,7,8-TCDD	16460	0.39 n	18:09	0.94	2.03	3.50	-	n
Total TCDD	64171	0.92 n	14:26	0.94	7.91	3.50	-	n
37Cl-2,3,7,8-TCDD	19744740	1.00 y	18:08	1.18	1944.71	2.55	121.5	n
13C-1,2,3,7,8-PeCDF	41419600	1.67 y	22:27	1.15	3439.54	1.41	86.0	n
1,2,3,7,8-PeCDF	22371	2.87 n	22:31	1.03	2.10	5.09	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.95	+	5.53	-	n
Total F2 PeCDF	146811	1.87 n	21:09	0.99	14.26	5.30	-	n
Total F1 PeCDF	118146	0.31 n	14:18	0.99	11.55	1.89 4.19 ✓	-	n
13C-1,2,3,7,8-PeCDD	20759670	1.75 y	24:30	0.67	2983.63	0.40	74.6	n
1,2,3,7,8-PeCDD	2969	4.86 n	24:31	0.96	0.60	6.31	-	n
Total PeCDD	59623	5.55 n	23:09	0.96	11.95	6.31	-	n
13C-1,2,3,7,8,9-HxCDD	36143100	1.35 y	30:49	-	53.77	-	-	n
13C-1,2,3,4,7,8-HxCDF	42173000	0.49 y	29:32	1.15	4064.67	5.19	101.6	n
1,2,3,4,7,8-HxCDF	73056	1.46 n	29:34	1.22	$\frac{5}{n} < 2.5$ 5.68 α	3.07	-	n
1,2,3,6,7,8-HxCDF	58746	0.77 n	29:41	1.41	$\frac{5}{n} < 2.5$ 3.96 α	2.66	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.23	+	3.04	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.08	+	3.45	-	n
Total HxCDF	251045	1.26 y	28:18	1.24	18.80	3.03 6.89 ✓	-	n
13C-1,2,3,6,7,8-HxCDD	30761200	1.33 y	30:32	0.96	3550.48	0.84	88.8	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.89	+	5.96	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.05	+	5.05	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.00	+	5.27	-	n
Total HxCDD	64872	3.58 n	29:39	0.98	8.60	5.40 5.96 ✓	-	n
13C-1,2,3,4,6,7,8-HpCDF	29328780	0.40 y	32:27	0.98	3297.56	19.49	82.4	n
1,2,3,4,6,7,8-HpCDF	169904	0.92 y	32:27	1.33	17.40 α	4.01	-	n
1,2,3,4,7,8,9-HpCDF	62021	1.59 n	33:42	1.12	$\frac{5}{n} < 2.5$ 7.56 α	4.77	-	n
Total HpCDF	286675	0.92 y	32:27	1.23	21.06 17.40 ✓	4.36	-	n
13C-1,2,3,4,6,7,8-HpCDD	22271900	1.14 y	33:19	0.82	2989.85	7.18	74.7	n
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.05	+	2.73	-	n
Total HpCDD	109444	2.54 n	32:26	1.05	18.75	2.73 4.59 ✓	-	n
13C-OCDD	24684500	0.95 y	35:56	0.54	5042.10	6.52	63.0	n
OCDF	159741	0.93 y	36:02	1.58	32.77 α	9.00	-	n
OCDD	65868	0.76 y	35:59	1.13	$\frac{5}{n} < 2.5$ 18.84 α	5.75	-	n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:14
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

Amount: 32.04 of which 3.90 named and 28.14 unnamed
 Conc: 64.08 of which 7.81 named and 56.27 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:27	1.32	n 0.61	6536 4961	1.0 1.1	n	n
	2	14:45	0.47	n 1.31	8260 17713	1.4 2.7	n	n
	3	14:56	1.61	n 1.60	21046 13052	2.3 3.0	n	n
	4	15:29	0.72	y 2.76	16621 23232	1.5 5.4	n	y
	5	15:45	0.94	n 11.43	87740 93415	7.8 10.3	y	y
	6	15:56	1.34	n 3.21	35051 26218	4.0 4.9	y	y
	7	16:14	0.83	y 5.52	36131 43725	3.4 8.1	y	y
	8	16:33	1.07	n 5.61	49219 45878	3.1 6.9	y	y
	9	16:46	0.23	n 3.73	23480 103826	3.9 9.5	y	y
	10	16:51	0.29	n 4.71	29645 103826	3.0 9.5	n	y
	11	17:04	0.67	y 11.85	68782 102615	8.4 10.7	y	y
2,3,7,8-TCDF	12	17:25	1.06	n 7.81	67562 63825	5.7 8.4	y	y
	13	17:52	0.85	y 3.29	21824 25735	2.3 3.0	n	y
	14	19:26	0.31	n 0.65	4071 13227	0.7 3.0	n	n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total TCDD

F:1 Mass: 319.897 321.894 Mod? no #Hom:6

Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 3.96 of which 1.01 named and 2.94 unnamed
 Conc: 7.91 of which 2.03 named and 5.88 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:26	0.92	n	1.87	7903	0.8	n n
						8585	2.0	n n
	2	15:31	1.47	n	1.24	8379	1.7	n n
						5697	1.5	n n
	3	16:56	0.42	n	1.56	5497	1.2	n n
						13095	2.9	n n
2,3,7,8-TCDD	4	18:09	0.39	n	2.03	7161	1.9	n n
						18583	5.9	y n
	5	18:41	0.13	n	0.20	717	0.2	n n
						5623	2.1	n n
	6	19:30	0.38	n	1.00	3543	0.9	n n
						9261	2.6	n n

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Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total F2 PeCDF

F:2 Mass: 339.860 341.857 Mod? no #Hom:5

Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 7.13 of which 1.05 named and 6.08 unnamed
 Conc: 14.26 of which 2.10 named and 12.16 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:09	1.87	n	7.19	54081	7.6	y n
						28868	2.1	n n
	2	21:28	0.38	n	0.54	3331	1.4	n n
						8797	1.2	n n
	3	22:20	1.71	y	2.44	15743	3.7	y n
						9191	1.3	n n
	4	22:23	1.33	y	2.00	11640	4.6	y n
						8773	1.1	n n
1,2,3,7,8-PeCDF	5	22:31	2.87	n	2.10	25161	4.7	y n
						8773	1.1	n n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:19
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1η

Amount: 5.77 of which * named and 5.77 unnamed
 Conc: 11.55 of which * named and 11.55 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:18	0.31 n	1.36	8429 27237	5.1 5.6	y	n
	2	14:25	0.13 n	0.58	3581 27237	2.9 5.6	n	n
	3	14:58	0.37 n	0.59	3646 9787	3.1 2.9	y	n
	4	15:12	0.60 n	0.28	1737 2896	1.4 1.1	n	n
	5	16:04	1.51 y	0.40	2486 1646	1.7 0.6	n	n
	6	16:14	0.15 n	0.26	1641 11172	1.8 3.3	n	n
	7	16:40	0.10 n	0.22	1359 14152	1.3 4.3	n	n
	8	16:51	1.13 n	0.87	5431 4796	3.3 1.7	y	n
	9	16:57	0.47 n	1.44	8966 18946	6.3 5.3	y	n
	10	17:12	0.12 n	0.11	712 5895	0.7 1.7	n	n
	11	17:36	0.76 n	0.66	4099 5382	4.3 1.4	y	n
	12	17:47	0.36 n	0.46	2879 8039	2.9 2.2	n	n
	13	18:49	1.10 n	0.35	2149 1950	2.1 0.7	n	n
	14	18:55	3.00 n	0.49	5845 1950	5.9 0.7	y	n
	15	19:07	0.24 n	0.60	3749 15700	2.5 3.7	n	n
	16	19:23	0.87 n	1.36	8448	7.1	y	n

					9734	3.1	y	n
17	19:48	0.74	n	0.49	3036	2.6	n	n
					4098	1.5	n	n
18	20:12	4.37	n	0.64	11310	11.7	y	n
					2586	0.6	n	n
19	20:17	0.93	n	0.39	2411	2.2	n	n
					2586	0.6	n	n

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Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:6
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 5.98 of which 0.30 named and 5.68 unnamed
 Conc: 11.95 of which 0.60 named and 11.36 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:09	5.55	n	1.05	11433	2.7	n n
						2062	2.5	n n
	2	23:31	0.96	n	3.19	9670	1.4	n n
						10073	8.5	y n
	3	24:20	0.87	n	1.87	5671	1.5	n n
						6523	3.4	y n
1,2,3,7,8-PeCDD	4	24:31	4.86	n	0.60	5654	1.3	n n
						1164	1.4	n n
	5	24:53	1.30	n	4.22	12804	1.8	n n
						9826	10.5	y n
	6	27:12	4.42	n	1.02	8836	2.1	n n
						1997	1.8	n n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 9.40 of which 4.82 named and 4.58 unnamed
 Conc: 18.80 of which 9.64 named and 9.15 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:18	1.26	y 6.89	50124 39662	7.6 3.9	y	n
1,2,3,4,7,8-HxCDF	2	29:34	1.46	n 5.68	47766 32615	8.1 3.6	y	n
1,2,3,6,7,8-HxCDF	3	29:41	0.77	n 3.96	32520 42485	6.6 3.4	y	n
	4	29:53	0.39	n 0.61	4370 11310	1.1 2.2	n	n
	5	30:47	0.73	n 1.66	11937 16420	1.7 3.1	n	n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 4.30 of which * named and 4.30 unnamed
 Conc: 8.60 of which * named and 8.60 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:39	3.58	n 2.85	34363 9594	3.3 1.8	y	n
	2	30:02	0.39	n 1.48	6182 15910	1.3 2.2	n	n
	3	31:42	0.78	n 1.93	8054 10291	1.5 1.9	n	n
	4	31:46	0.95	n 2.34	9778 10291	1.9 1.9	n	n

Run Text: L84M7-1-AA

Sample text: L84M7-1-AA :G0J260480-6

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

Amount: 15.53 of which 12.48 named and 3.05 unnamed
 Conc: 31.06 of which 24.96 named and 6.09 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	0.92	y 17.40	81533	11.0	y	n
					88371	20.7	y	n
	2	32:37	0.41	n 2.27	10415	2.0	n	n
					25146	8.2	y	n
	3	32:47	1.83	n 3.82	30719	2.7	n	n
					16823	3.0	n	n
1,2,3,4,7,8,9-HpCDF	4	33:42	1.59	n 7.56	48396	3.2	y	n
					30403	5.3	y	n

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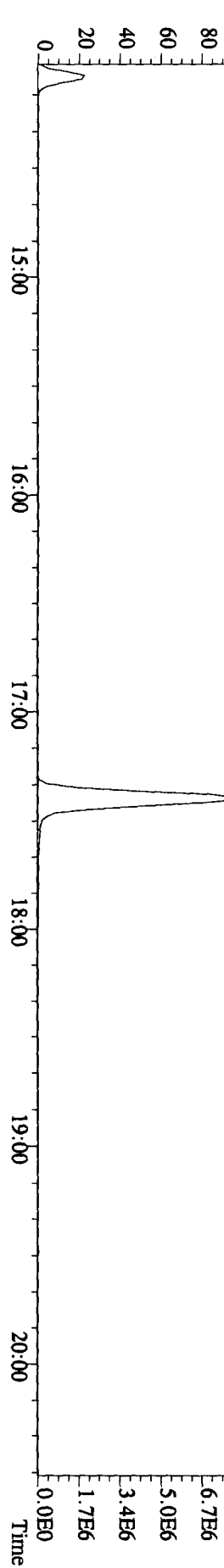
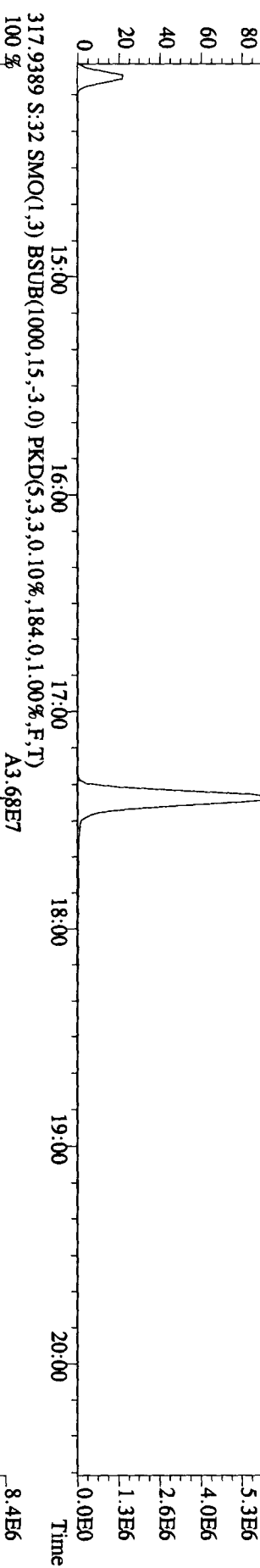
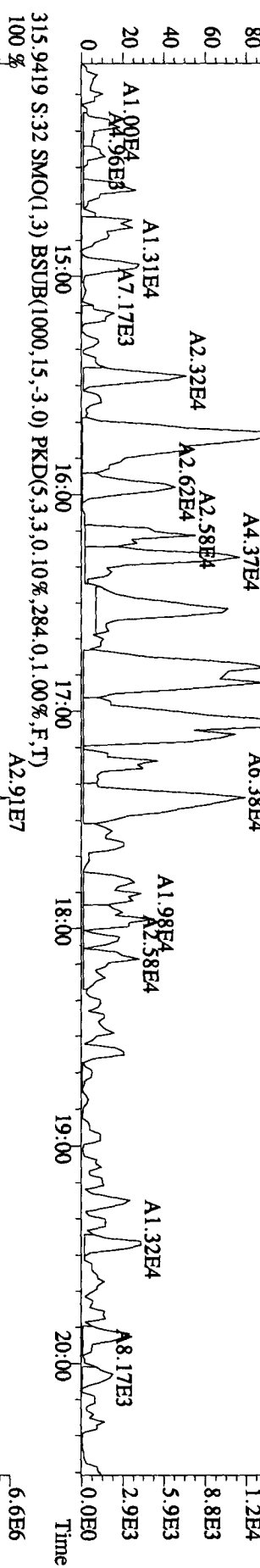
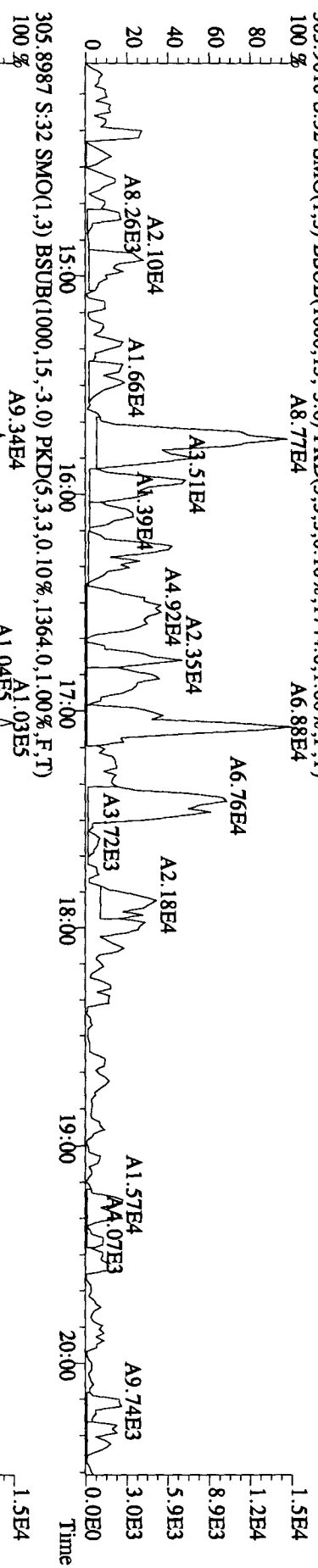
Run Text: L84M7-1-AA Sample text: L84M7-1-AA :G0J260480-6

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7
 Run: 11 File: 02NO10A1D5 S:32 Acq:3-NOV-10 12:43:53
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

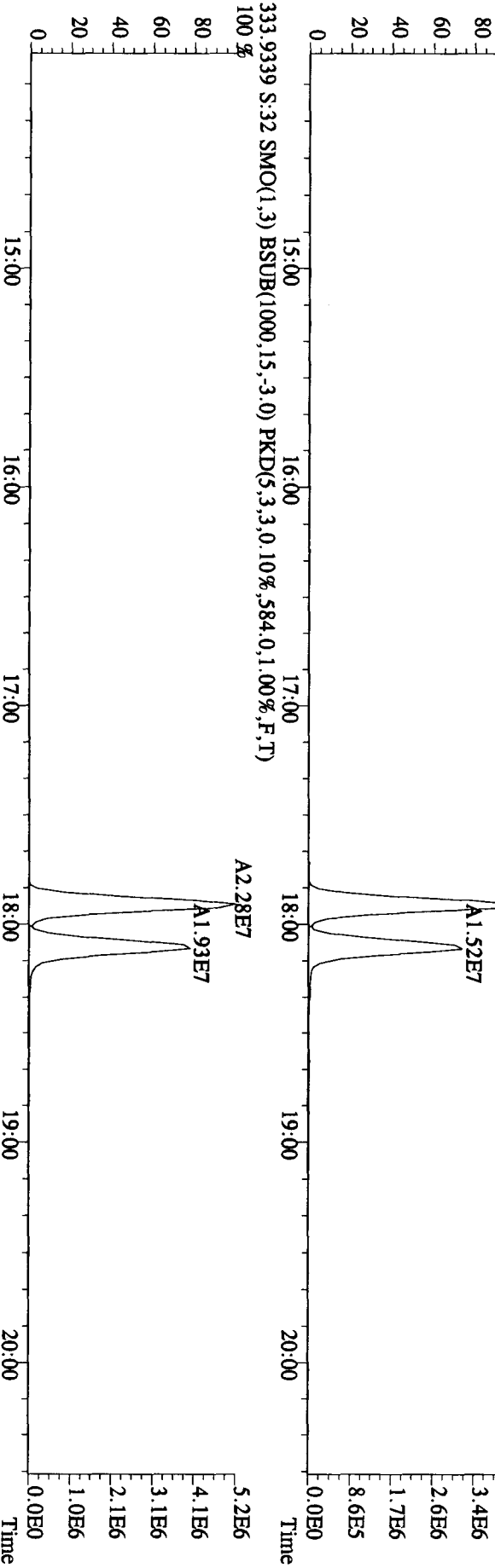
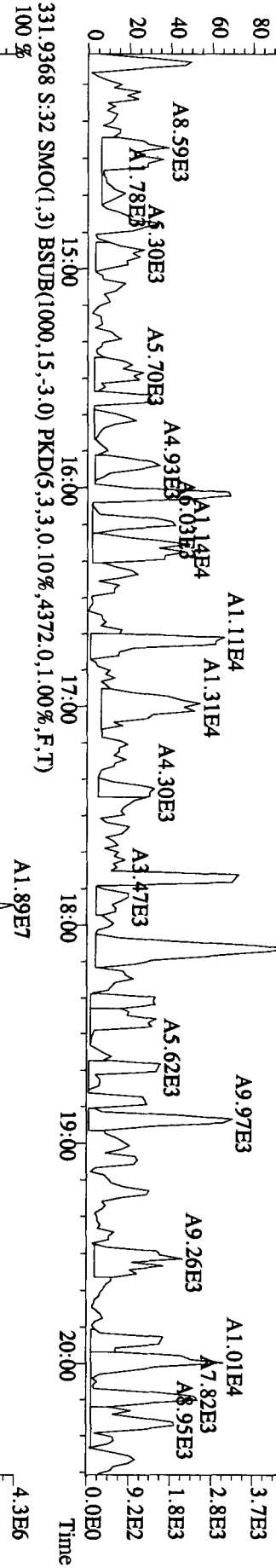
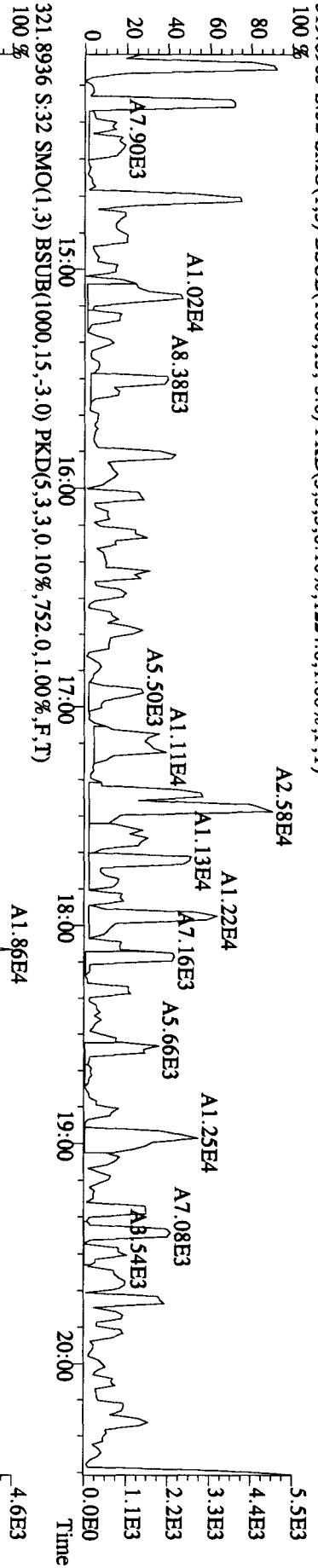
Amount: 9.38 of which * named and 9.38 unnamed
 Conc: 18.75 of which * named and 18.75 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:26	2.54	n 3.83	27854	15.3	y	n
					10946	3.7	y	n
	2	32:41	0.69	n 4.59	13645	6.0	y	n
					19904	5.8	y	n
	3	33:13	2.21	n 1.16	7363	4.9	y	n
					3327	1.7	n	n
	4	33:39	1.58	n 6.22	28102	12.6	y	n
					17792	6.8	y	n
	5	34:18	5.69	n 0.42	6886	5.3	y	n
					1210	0.5	n	n
	6	34:30	1.23	n 1.76	6170	4.5	y	n
					5031	2.1	n	n
	7	34:52	0.64	n 0.78	2312	2.1	n	n
					3626	2.1	n	n

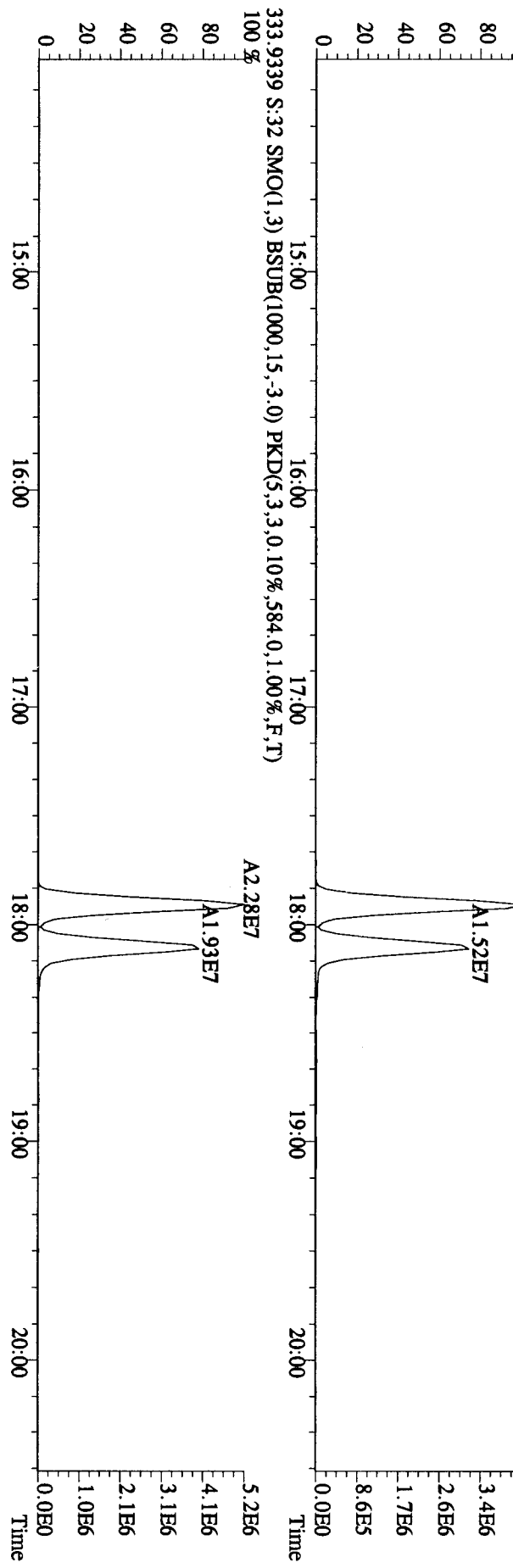
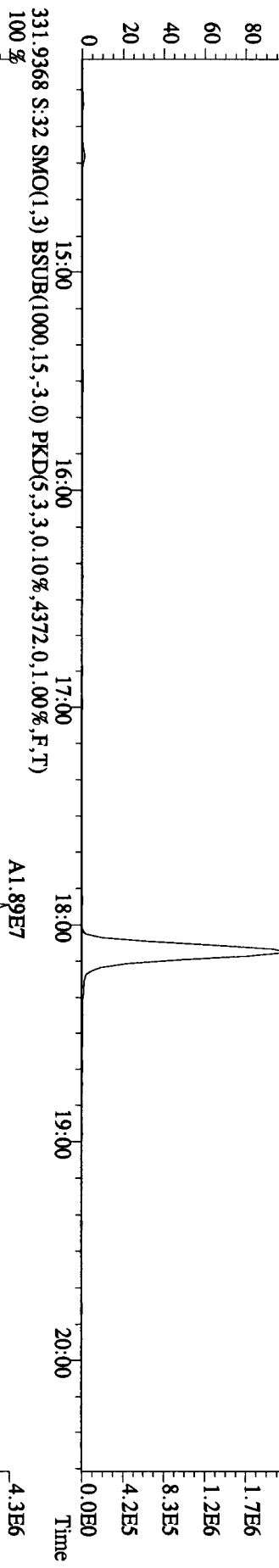
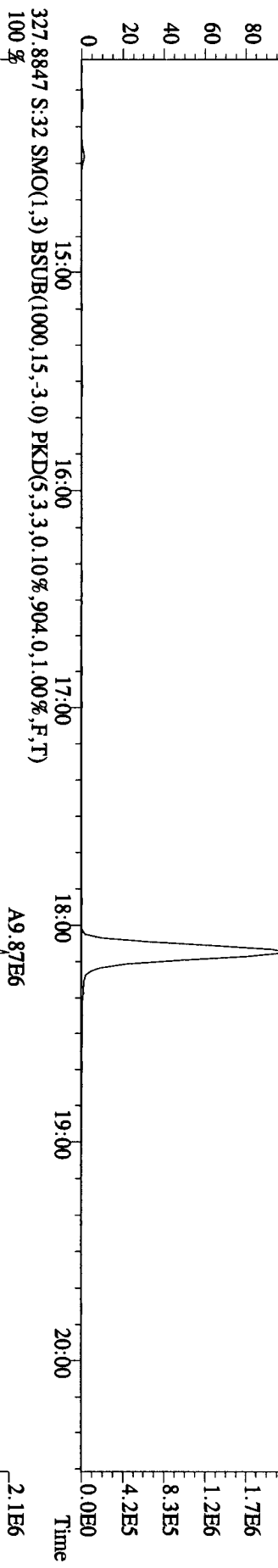
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 Sample#32 Text:L84M7-1-AA :G01260480-6 Exp:DIOXINRES
 303.9016 S:32 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1744,0,1.00%,F,T)
 100% A8.77E4 A6.88E4



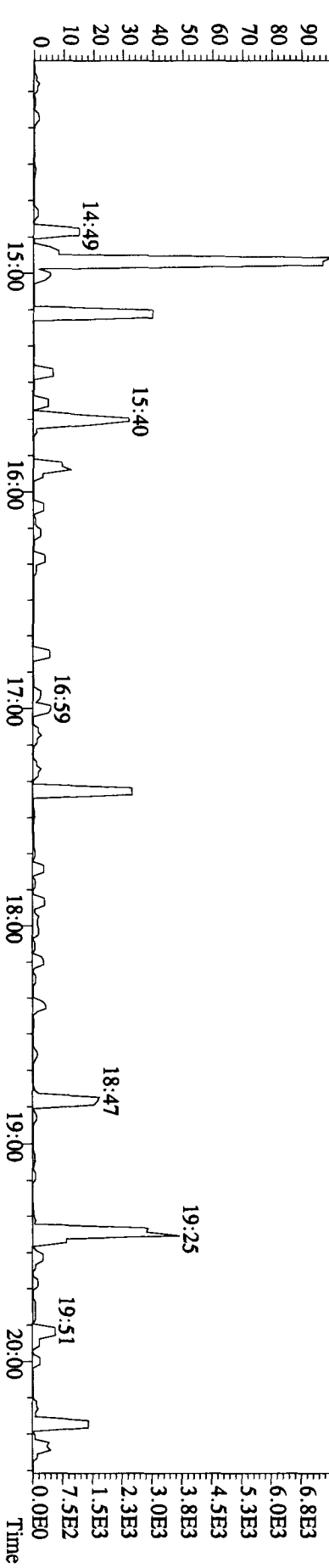
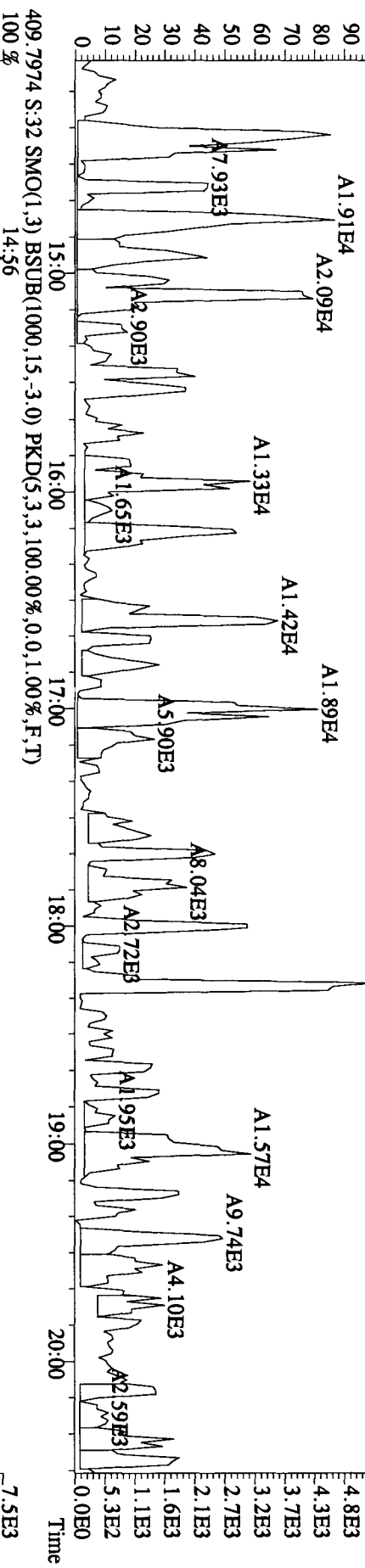
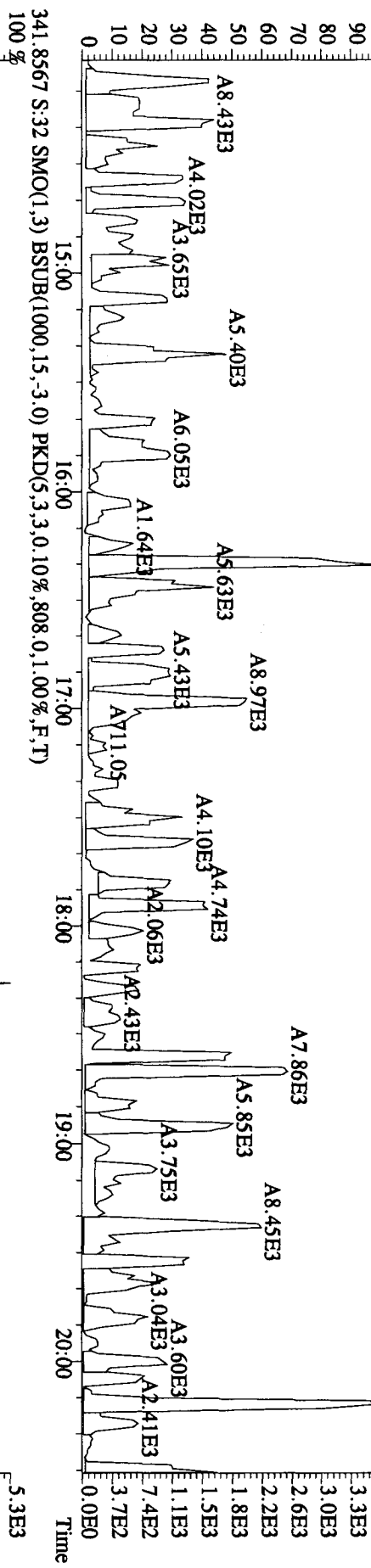
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
Sample#32 Text: L84M7-1-AA :G01260480-6 Exp: DIOXINRES
319,8965 S:32 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1224,0,1,00%,F,T)

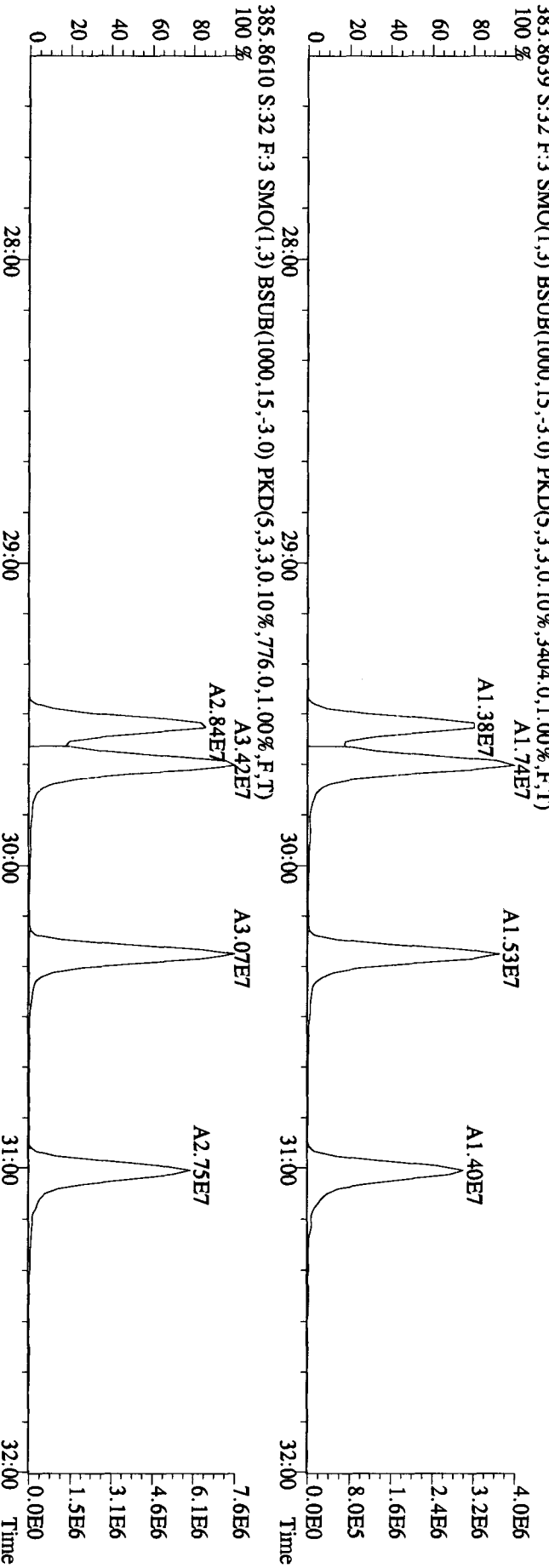
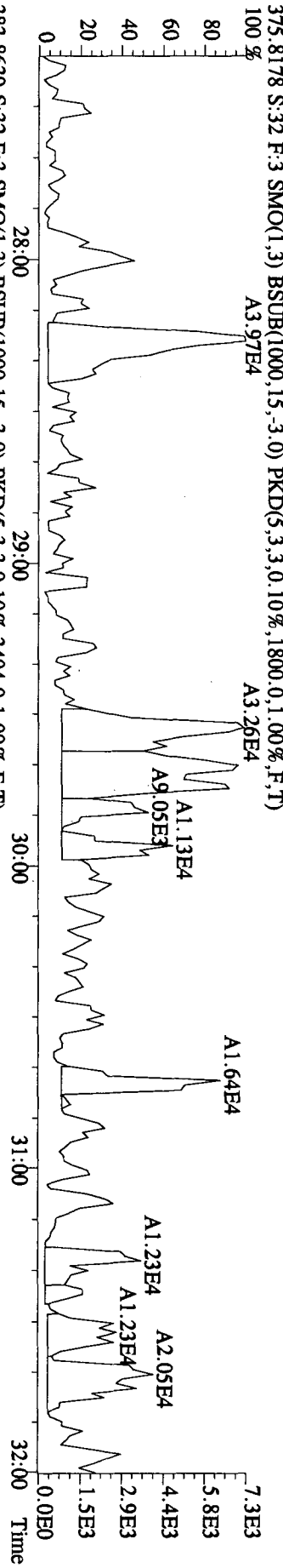
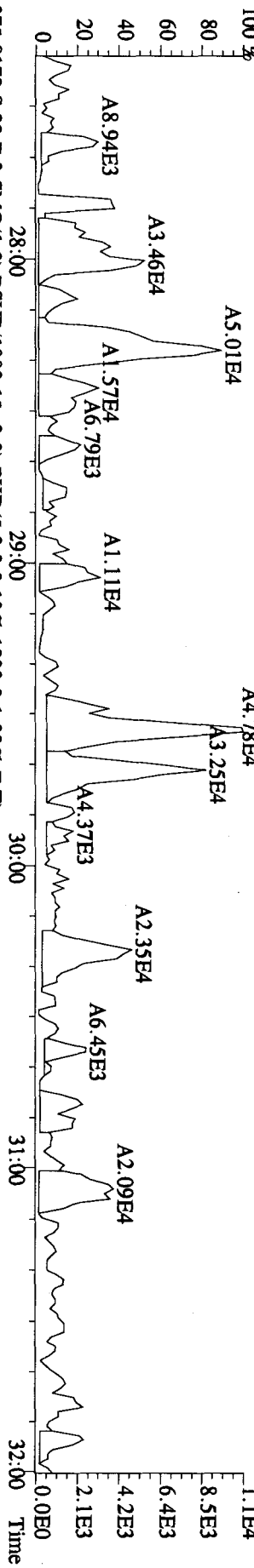


File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 12:43:53 GC EI + Voltage SIR 70SE
 Sample#32 Text:L84M7-1-AA :G01260480-6 Exp:DIOXINRES
 327.8847 S:32 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,904,0,1,00%,F,T)
 100 %

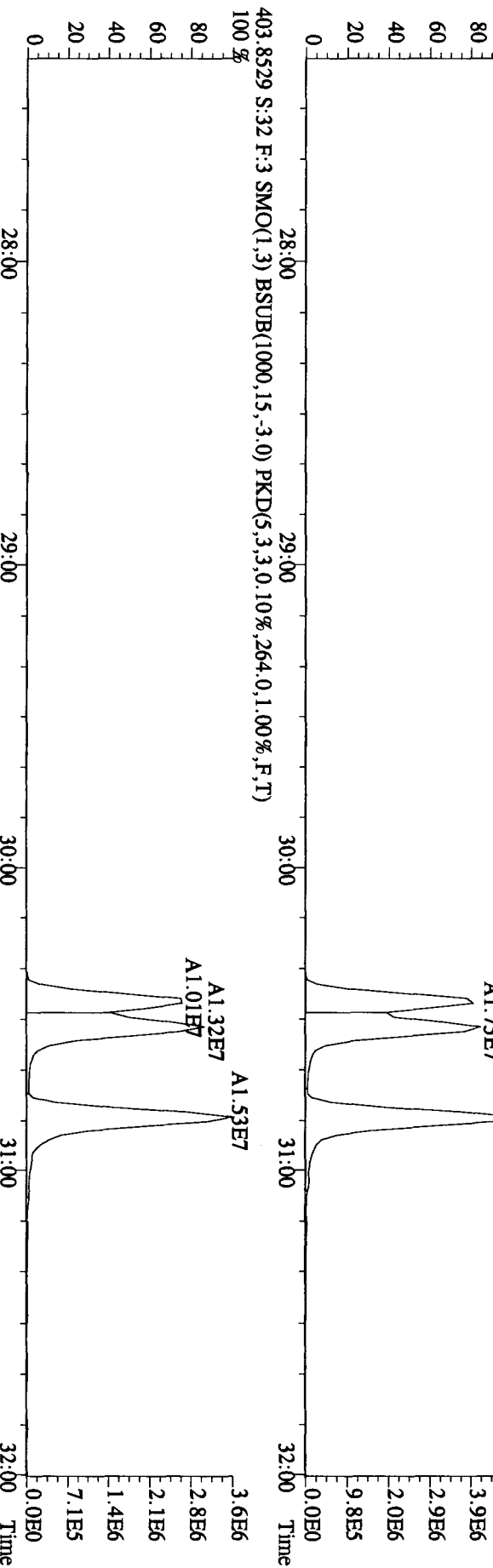
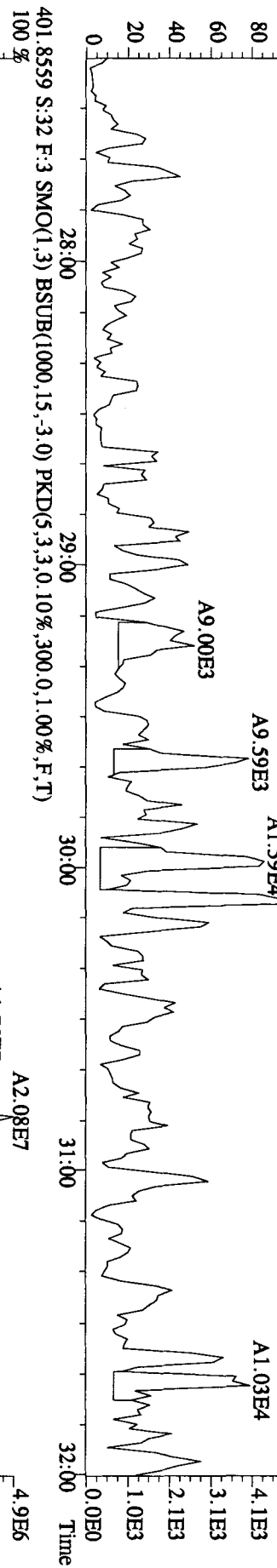
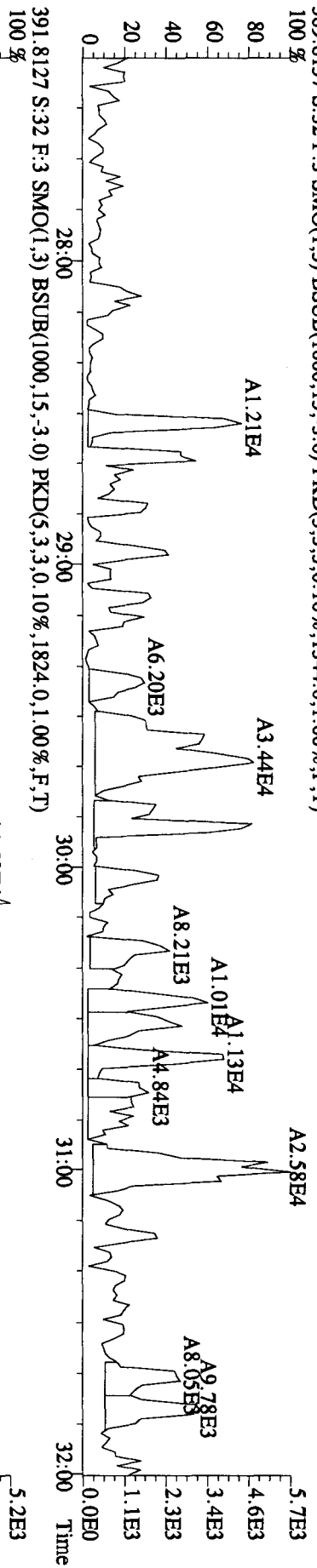


File: 02NO10A1D5 #1.382 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
 Sample#32 Text: L84M7-1-AA :G01260480-6 Exp: DIOXINRES
 339.8597 S:32 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)
 A1.11E4

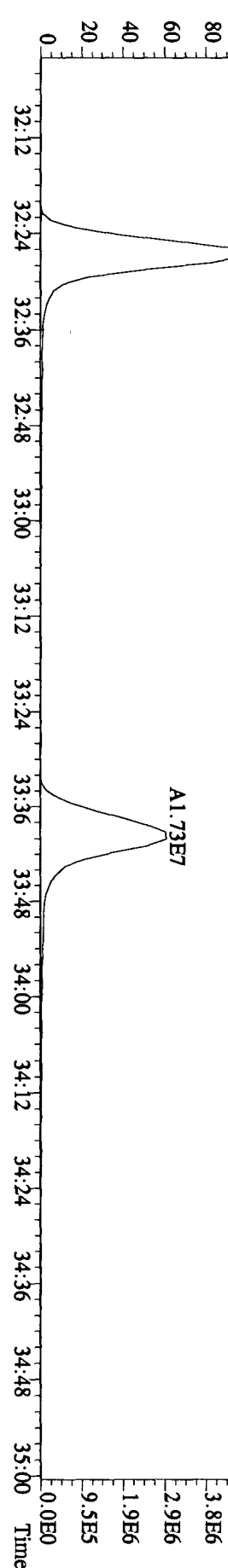
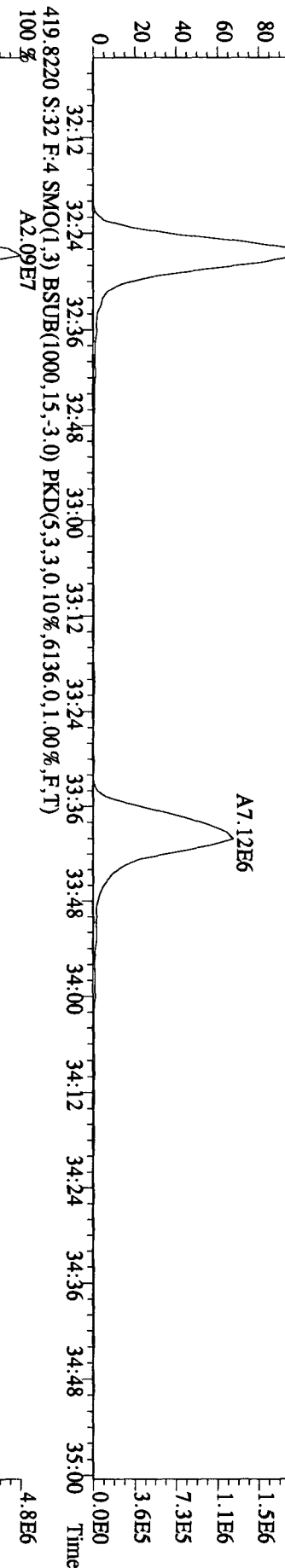
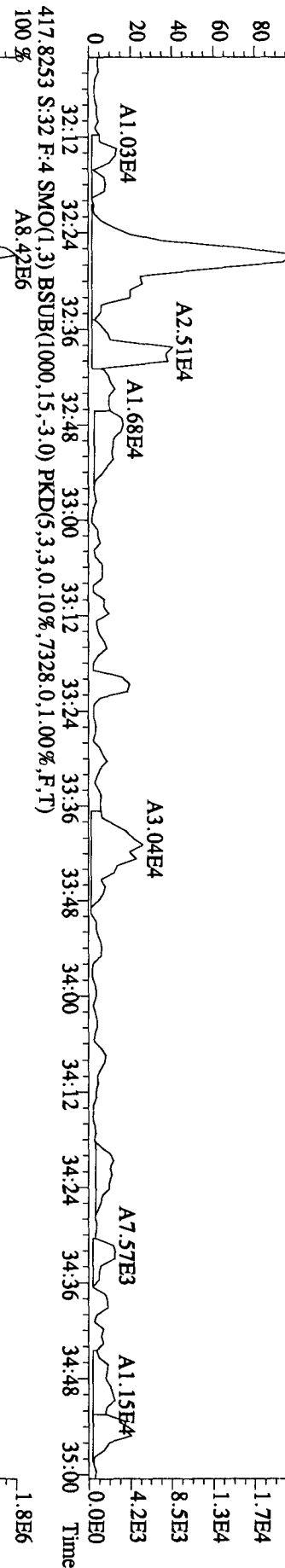
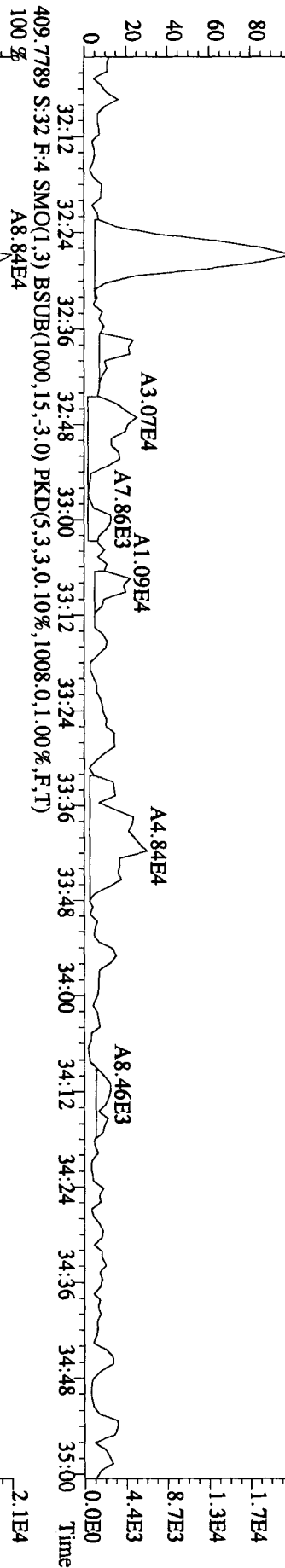




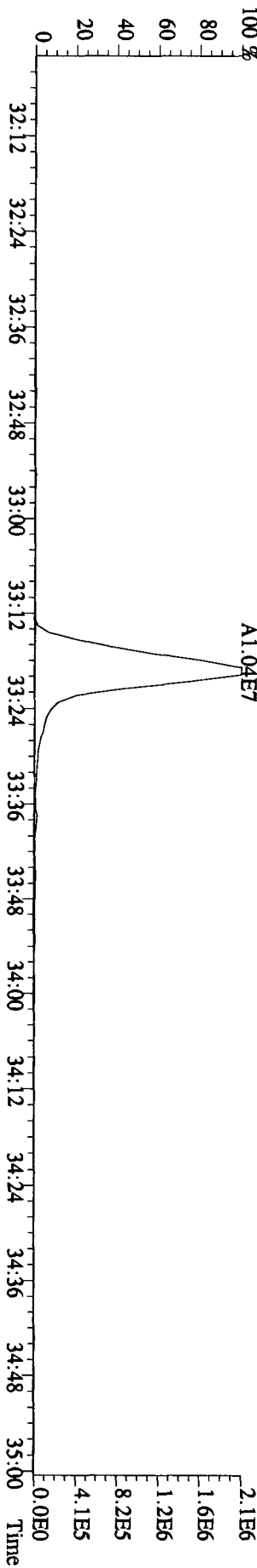
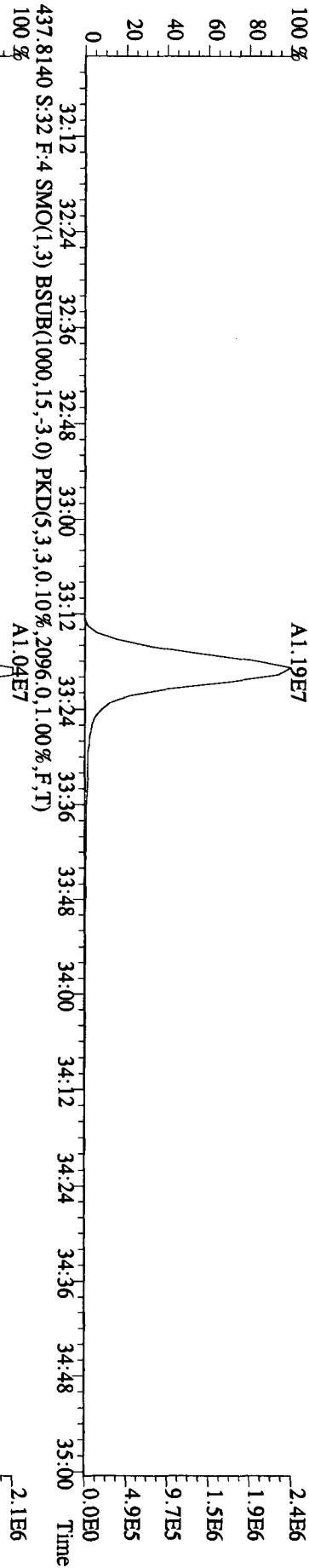
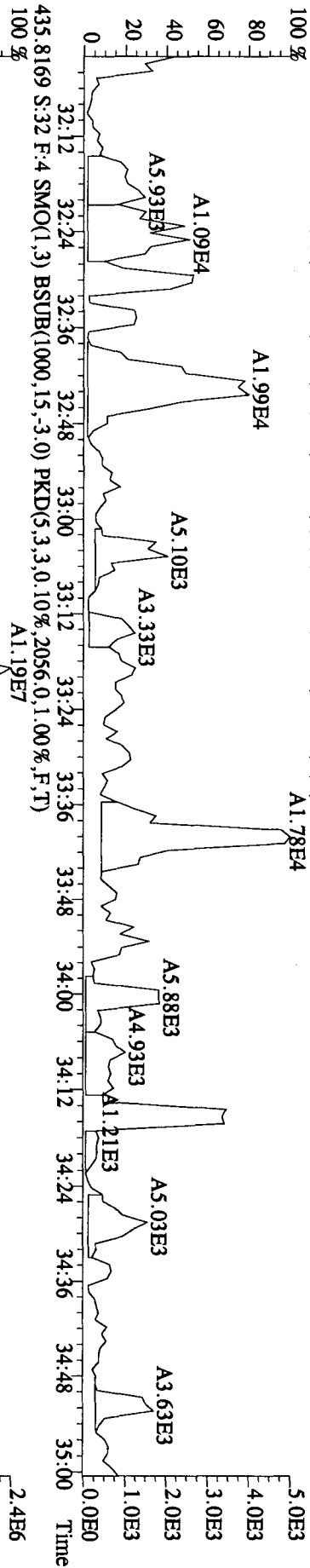
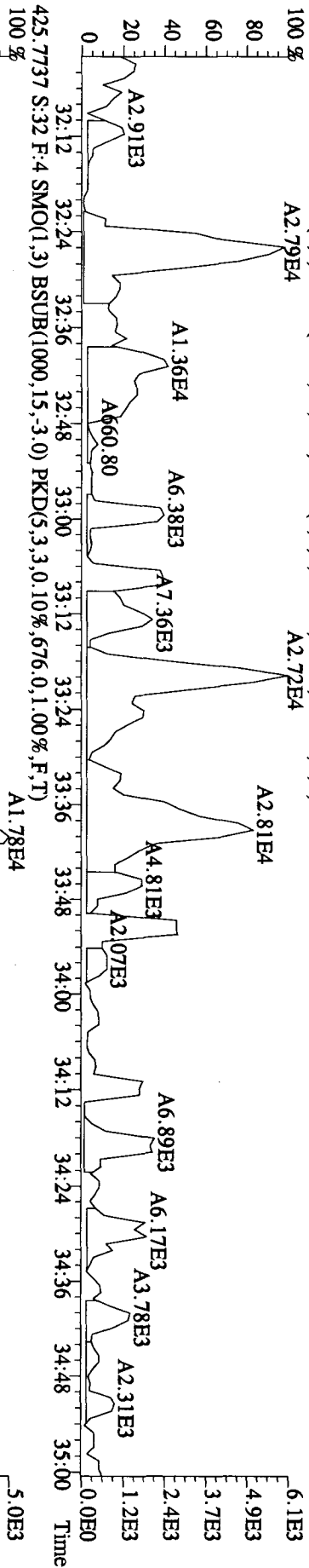
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 12:43:53 GC EI + Voltage SFR 70SE
 Sample#32 Text: L84M7-1-AA : G0J260480-6 Exp: DIOXINRES
 389.8157 S:32 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1344,0,1,00%,F,T)



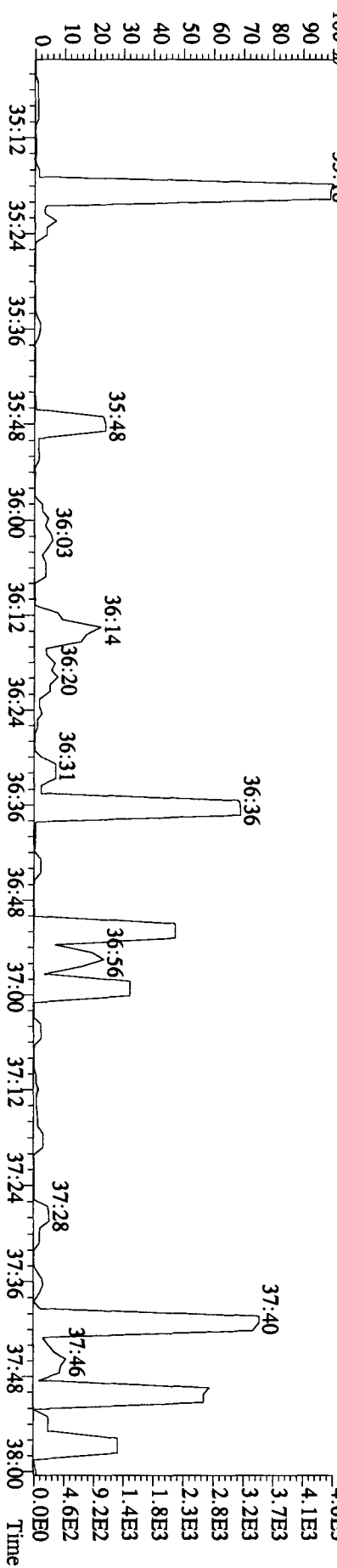
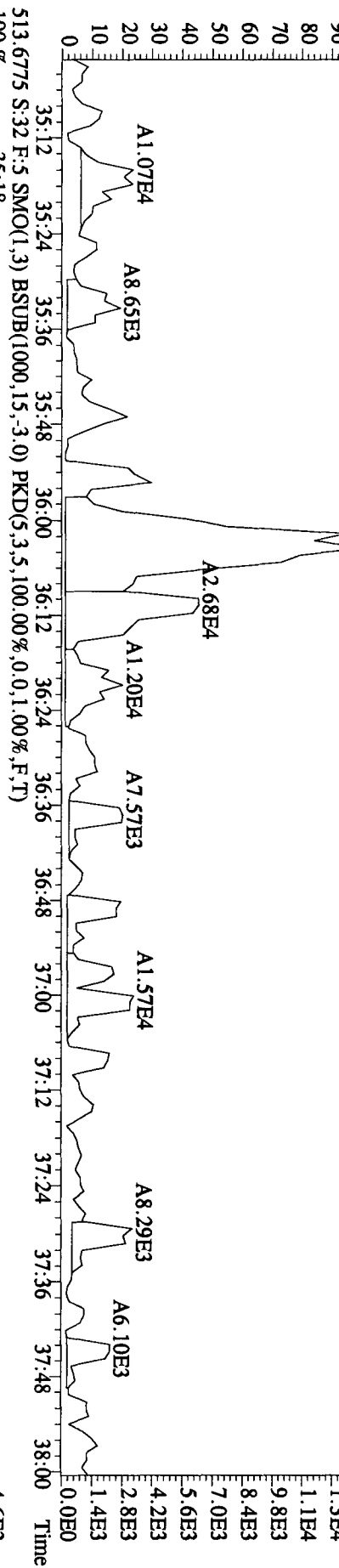
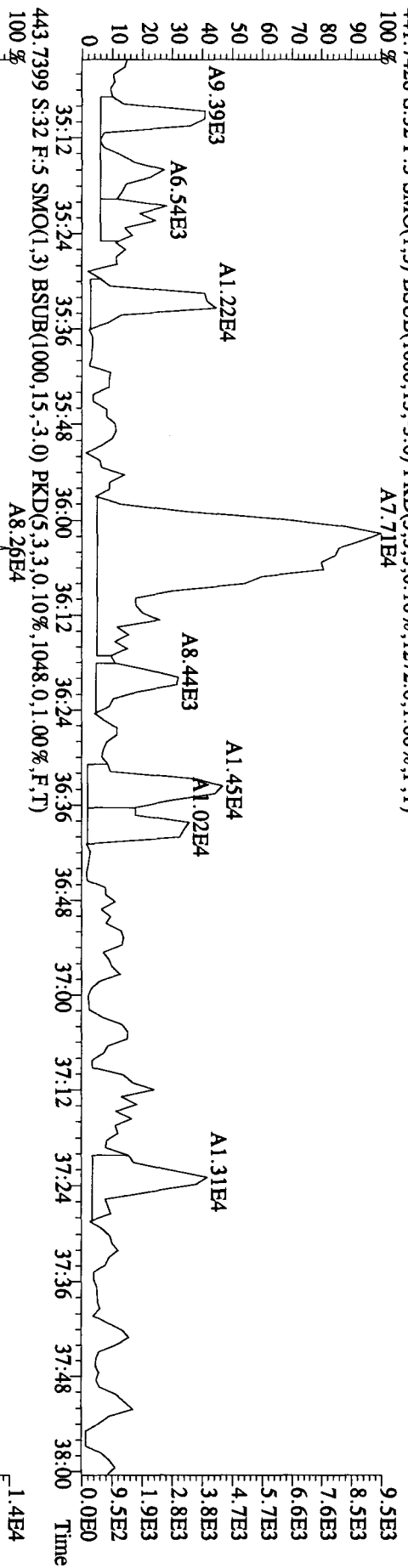
File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 12:43:53 GC:EI+ Voltage: SIR 70SE
 Sample#32 Text:L84M7-1-AA :G01260480-6 Exp:DIOXINRES
 407.7818 S:32 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1884,0.1,00%,F,T)
 100%



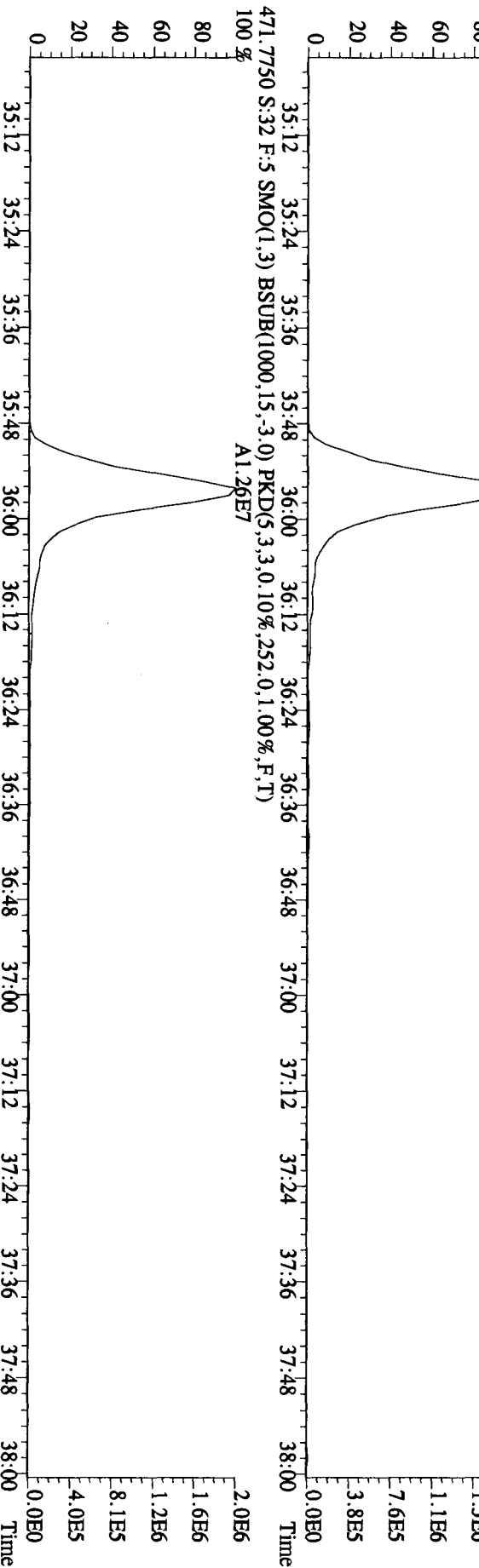
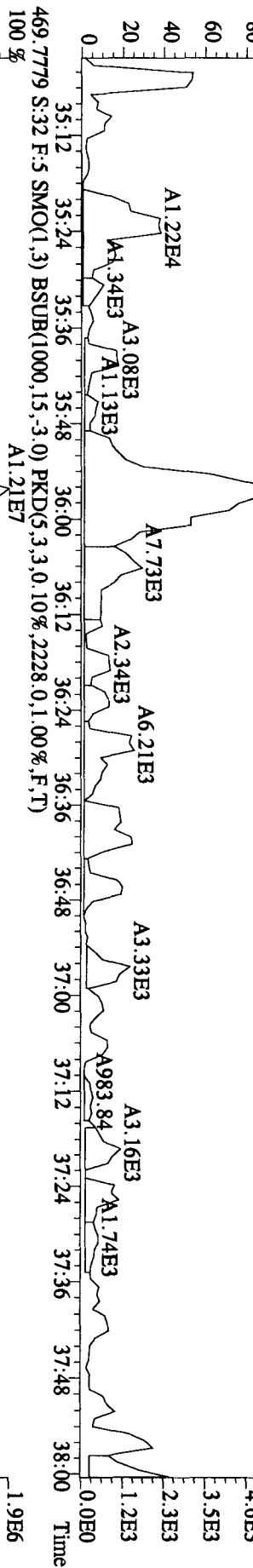
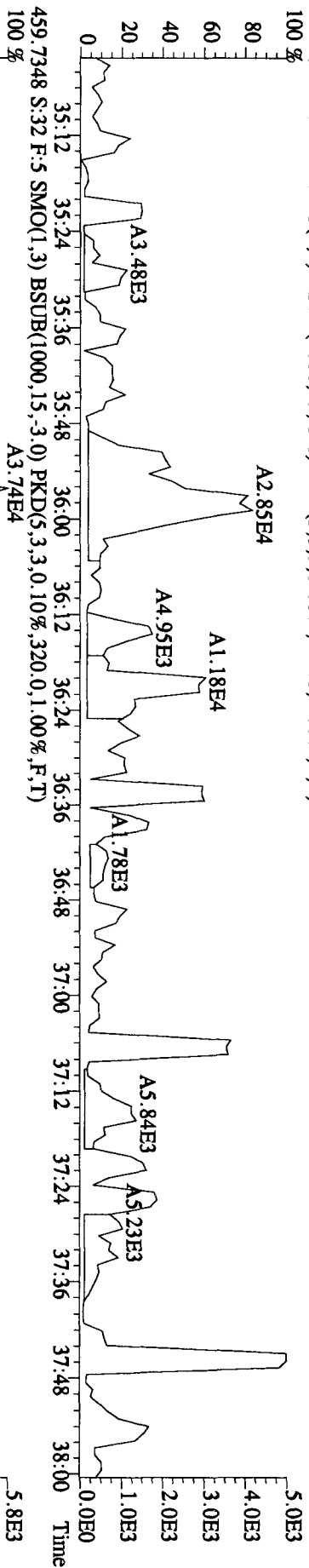
File:02N010A1D5 #1-203 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
 Sample#32 Text:L84M7-1-AA :G01260480-6 Exp:DIOXINRES
 423.7766 S:32 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.392,0.1,00%,F,T)
 100% A2.79E4

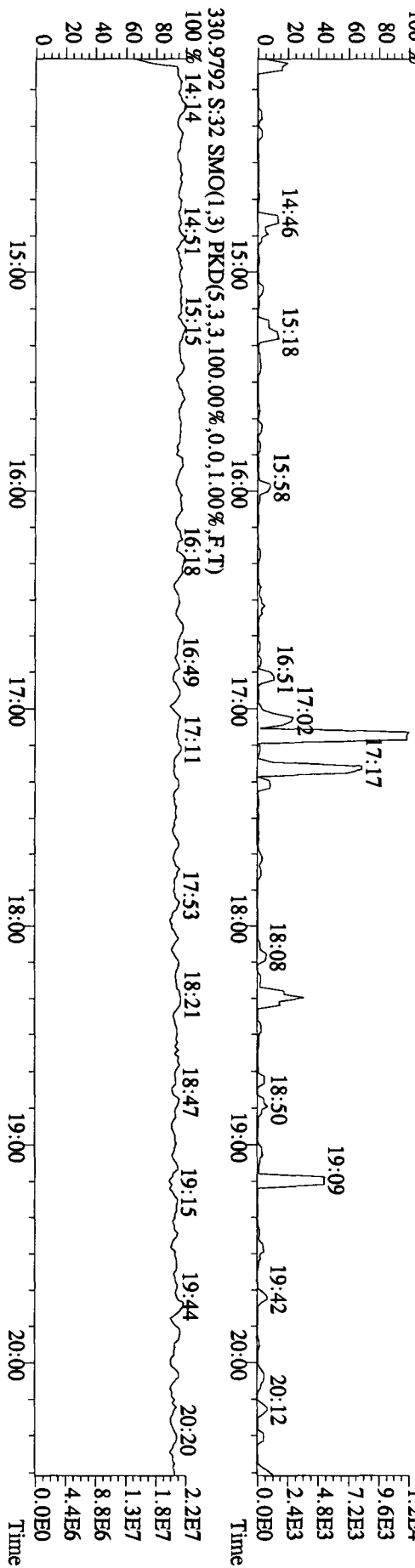
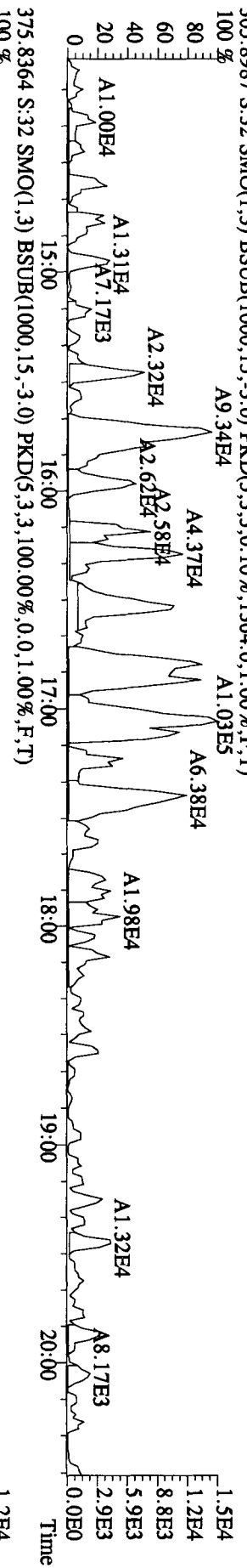
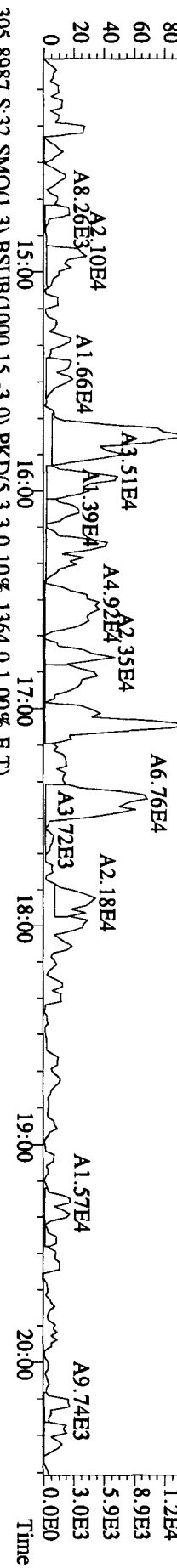
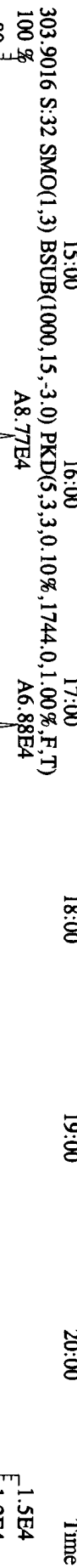
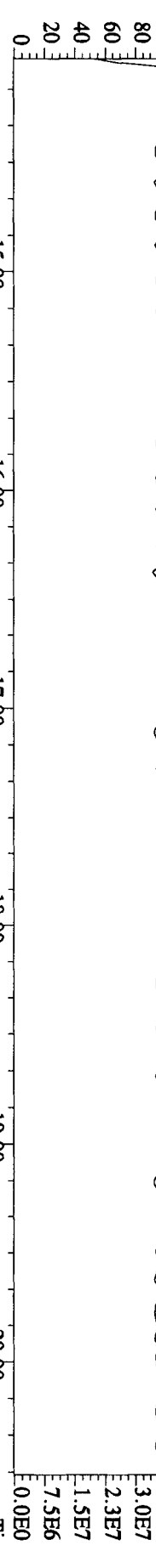


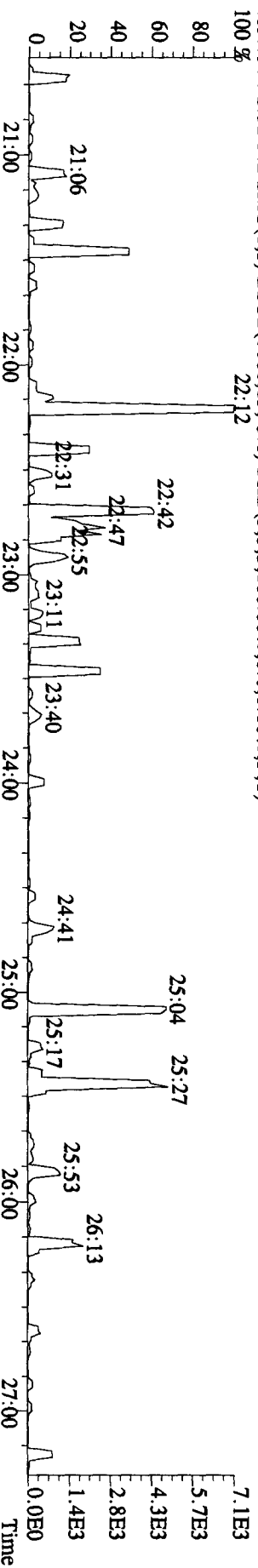
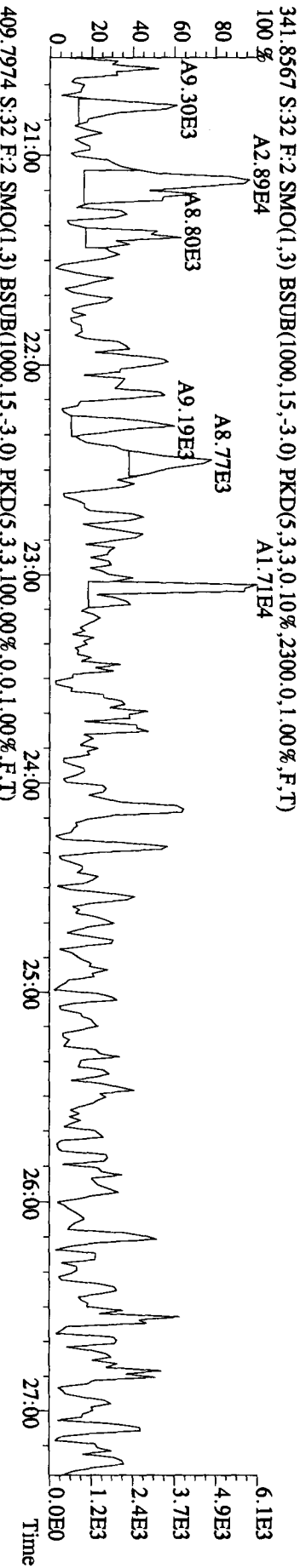
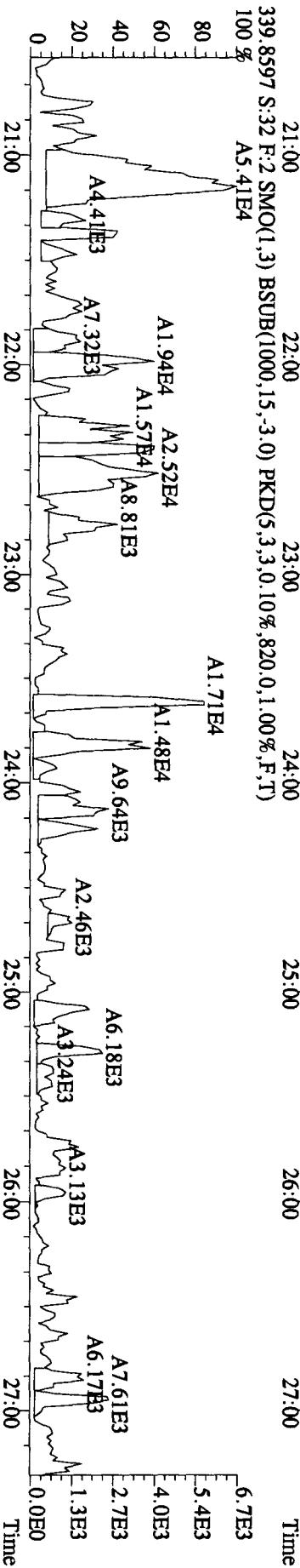
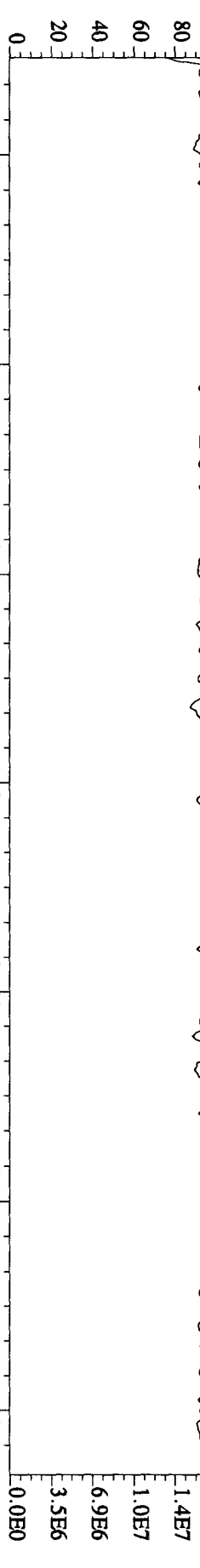
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
 Sample#32 Text:1.84M7-1-AA :G01260480-6 Exp:DIOXINRES
 441.7428 S:32 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1272,0,1,00%,F,T)



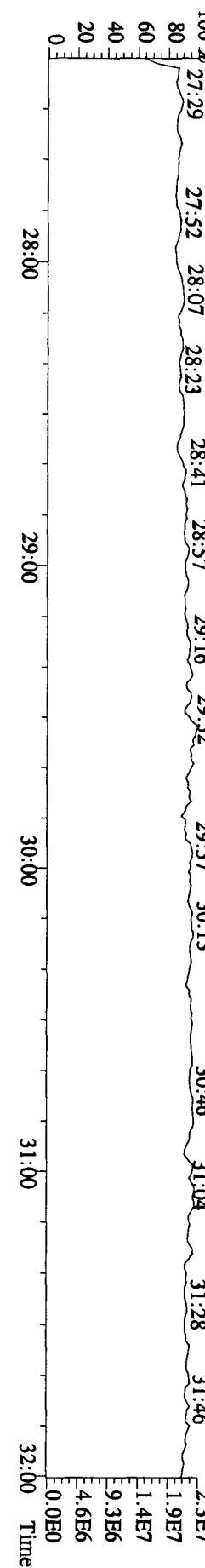
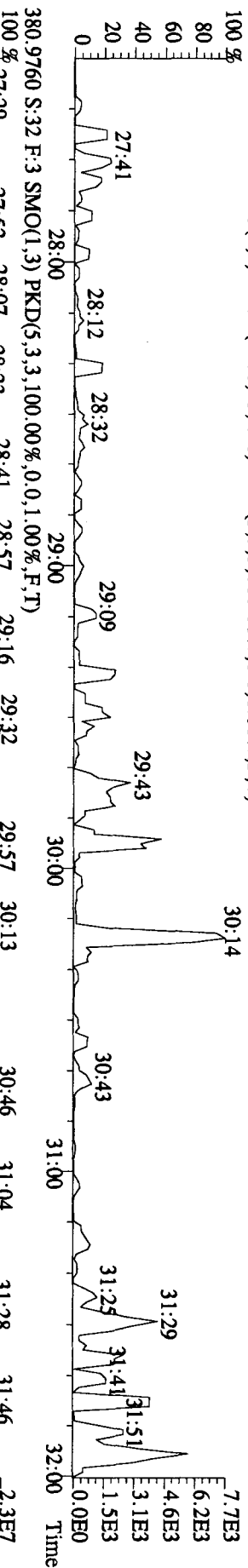
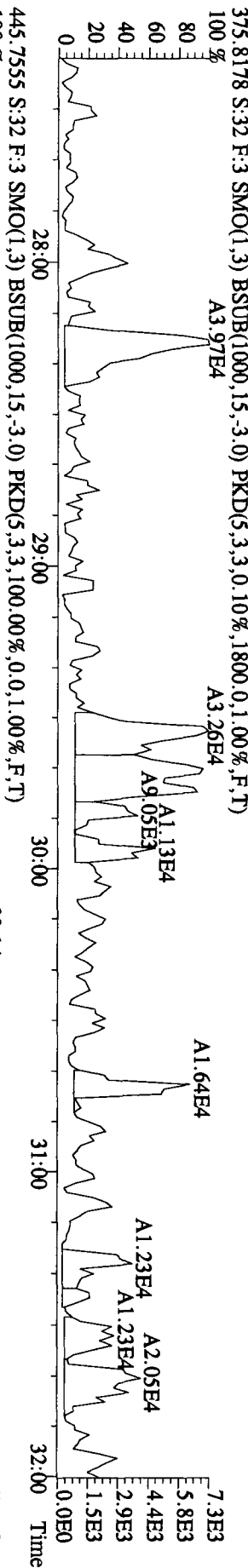
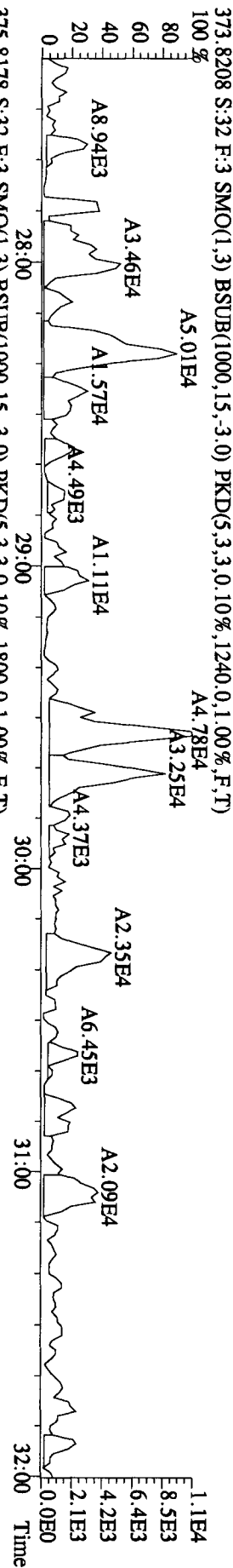
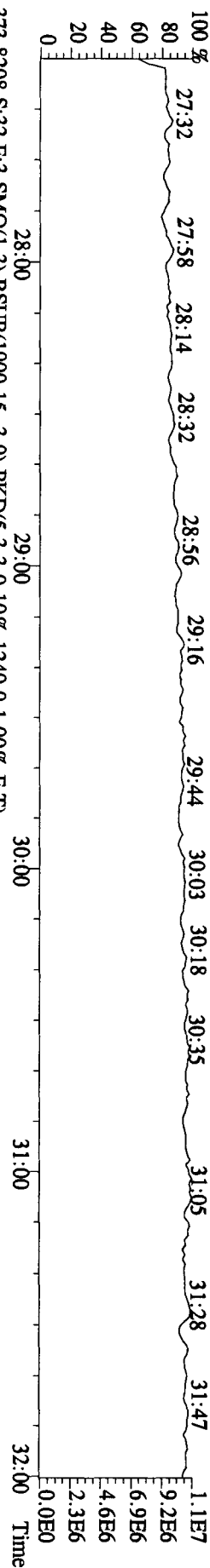
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
 Sample#32 Text:L84M7-1-AA :G0J260480-6 Exp:DIOXINRES
 457.7377 S:32 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,744,0,1,00%,F,T)

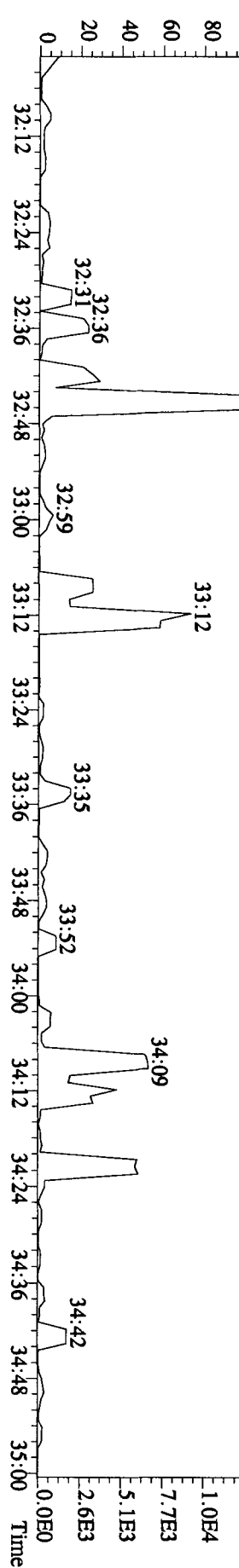
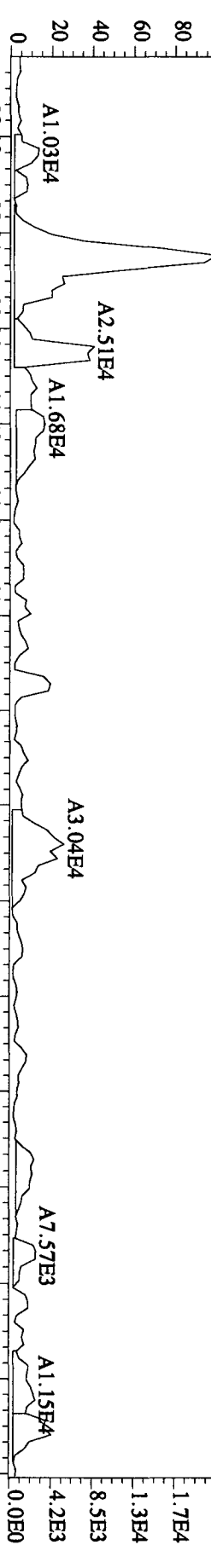
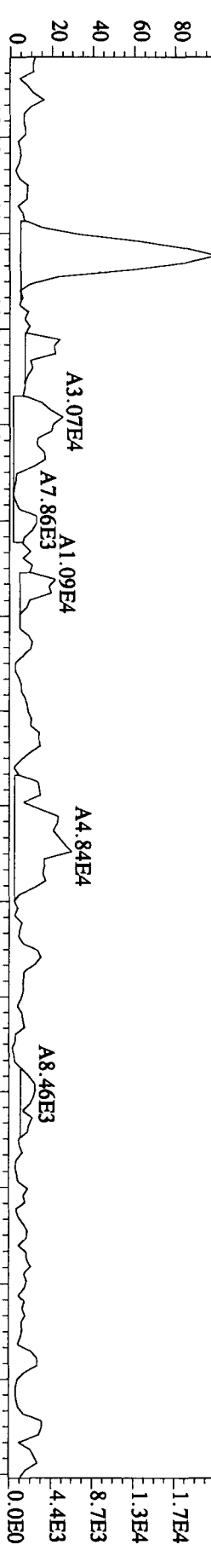
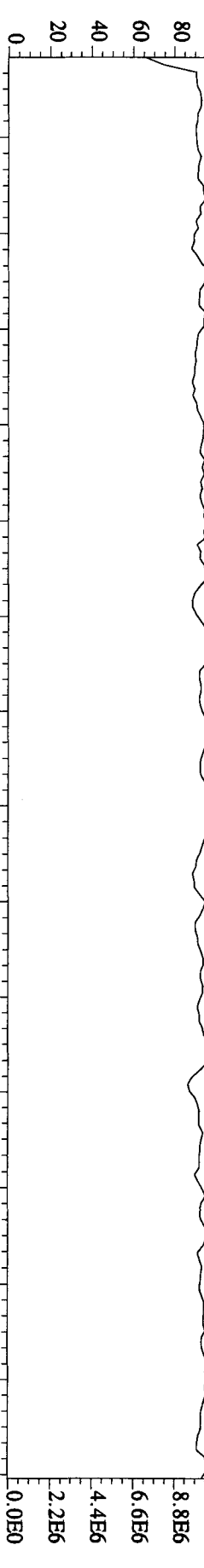




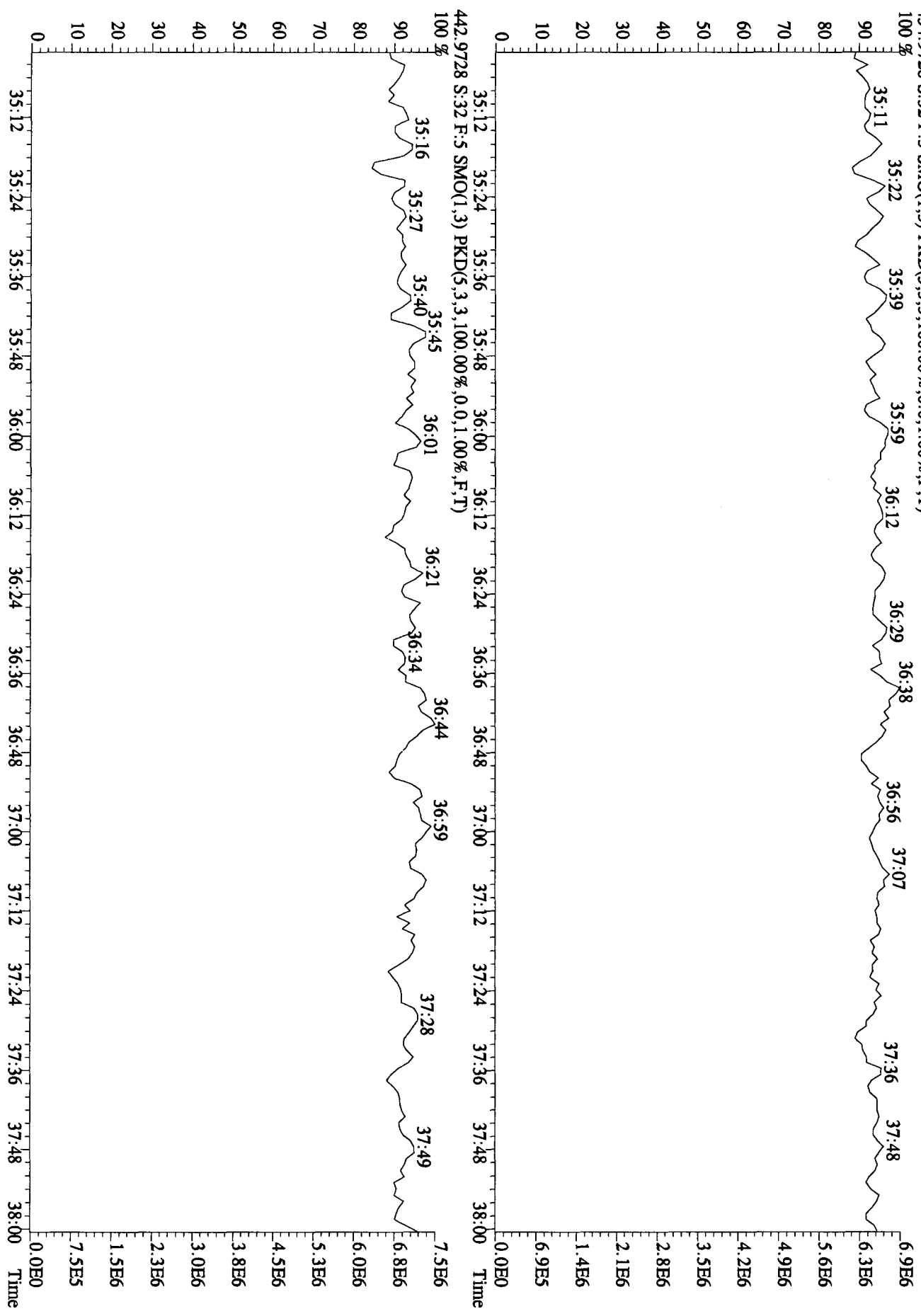


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SFR 70SE
 Sample#32 Text: L84M7-1-AA : G0J260480-6 Exp: DIOXINRES





File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 12:43:53 GC EI+ Voltage SIR 70SE
 Sample#32 Text: L84M7-1-AA :G0J260480-6 Exp: DIOXINRES
 454.9728 S:32 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



05
11-5-10

Run text: L84NE-1-AA Sample text: L84NE-1-AA :G0J260480-7
 Run #12 Filename: 02NO10A1D5 S: 33 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 13:26:43 Processed: 3-NOV-10 16:16:28
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	36255700	0.78 y	17:56	-	42.41	-	-	n
13C-2,3,7,8-TCDF	58711300	0.78 y	17:25	1.57	4113.99	0.47	102.8	n
2,3,7,8-TCDF	362306	0.78 y	17:27	0.88	28.13	2.73	-	n
Total TCDF	1801436	0.95 n	15:00	0.88	139.87 121.77 ✓	2.73	-	n
13C-2,3,7,8-TCDD	29701300	0.77 y	18:08	0.99	3312.25	5.24	82.8	n
2,3,7,8-TCDD	6450	2.48 n	18:14	0.94	0.92	2.35	-	n
Total TCDD	206245	1.17 n	14:28	0.94	29.54	2.35 3.51 ✓	-	n
37Cl-2,3,7,8-TCDD	15638760	1.00 y	18:09	1.18	1789.38	1.66	111.8	n
13C-1,2,3,7,8-PeCDF	33380500	1.68 y	22:29	1.15	3190.18	0.80	79.8	n
1,2,3,7,8-PeCDF	*	* n	NotFnd	1.03	-	5.62	-	n
2,3,4,7,8-PeCDF	26771	4.05 n	23:52	0.95	3.39	6.11	-	n
Total F2 PeCDF	312196	1.45 y	21:11	0.99	58.00	5.85	-	n
Total F1 PeCDF	116637	0.17 n	15:05	0.99	14.15	1.91 23.58 ✓	-	n
13C-1,2,3,7,8-PeCDD	16569210	1.76 y	24:31	0.67	2740.65	0.87	68.5	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	-	4.36	-	n
Total PeCDD	130455	0.52 n	20:40	0.96	32.77	4.36 6.13 ✓	-	n
13C-1,2,3,7,8,9-HxCDD	26794500	1.34 y	30:50	-	39.86	-	-	n
13C-1,2,3,4,7,8-HxCDF	33239000	0.48 y	29:32	1.15	4321.34	5.88	108.0	n
1,2,3,4,7,8-HxCDF	156767	1.25 y	29:34	1.22	15.48 J	3.14	-	n
1,2,3,6,7,8-HxCDF	83152	0.79 n	29:42	1.41	7.11 J,R	2.72	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.23	-	3.11	-	n
1,2,3,7,8,9-HxCDF	17292	0.50 n	31:06	1.08	1.92	3.53	-	n
Total HxCDF	584284	0.88 n	27:33	1.24	56.36 45.32 ✓	3.10	-	n
13C-1,2,3,6,7,8-HxCDD	22991000	1.24 y	30:32	0.96	3579.49	0.85	89.5	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.89	-	5.14	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.05	-	4.35	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.00	-	4.54	-	n
Total HxCDD	47850	0.46 n	27:33	0.98	8.49	4.66 5.14	-	n
13C-1,2,3,4,6,7,8-HpCDF	21748760	0.39 y	32:27	0.98	3298.47	16.06	82.5	n
1,2,3,4,6,7,8-HpCDF	235336	1.02 y	32:27	1.33	32.51 J	5.01	-	n
1,2,3,4,7,8,9-HpCDF	35549	0.58 n	33:43	1.12	5.84	5.96	-	n
Total HpCDF	474576	1.02 y	32:27	1.23	68.93 48.59 32.51 ✓	5.45	-	n
13C-1,2,3,4,6,7,8-HpCDD	16853760	1.12 y	33:19	0.82	3051.89	8.27	76.3	n
1,2,3,4,6,7,8-HpCDD	32156	1.60 n	33:19	1.05	7.28 R	3.40	-	n
Total HpCDD	152953	2.33 n	32:25	1.05	34.63	3.40 7.99	-	n
13C-OCDD	17771710	0.88 y	35:57	0.54	4896.62	13.52	61.2	n
OCDF	278607	1.08 n	36:04	1.58	79.38 J,R	14.98	-	n
OCDD	67385	1.16 n	35:57	1.13	26.77 J,R	6.63	-	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:14
 Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 69.93 of which 14.06 named and 55.87 unnamed
 Conc: 139.87 of which 28.13 named and 111.74 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:00	0.95 n	5.15	35514 37480	10.7 5.2	y	n
	2	15:19	1.54 n	1.07	11994 7780	4.1 1.3	y	n
	3	15:45	0.97 n	22.94	161703 166931	36.7 18.4	y	n
	4	16:00	0.70 y	15.40	81496 116800	17.3 12.9	y	n
	5	16:18	0.63 n	12.11	67840 107785	11.8 11.9	y	n
	6	16:32	0.58 n	13.45	75350 128904	18.2 17.1	y	n
	7	16:52	1.53 n	11.45	127223 83334	13.5 9.3	y	n
	8	17:05	0.73 y	20.89	113481 155541	28.7 19.0	y	n
2,3,7,8-TCDF	9	17:27	0.78 y	28.13	158637 203669	32.7 22.9	y	n
	10	17:54	0.44 n	3.70	20736 46722	5.7 6.0	y	n
	11	18:05	0.66 y	1.91	9759 14874	2.9 2.4	n	n
	12	18:10	0.95 n	1.32	9080 9575	2.5 1.3	n	n
	13	19:21	0.48 n	1.95	10940 22588	2.4 2.9	n	n
	14	19:59	4.75 n	0.40	13900 2929	3.1 0.6	y	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:14
Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 14.77 of which 0.46 named and 14.31 unnamed
Conc: 29.54 of which 0.92 named and 28.62 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:28	1.17	n 3.46	15991 13664	6.9 4.7	y	n
	2	14:42	1.98	n 1.89	14758 7446	4.5 4.4	y	n
	3	14:53	2.14	n 0.95	7969 3730	3.6 2.2	y	n
	4	15:26	0.92	n 3.28	11878 12944	3.0 4.2	y	n
	5	15:42	0.48	n 2.42	7338 15310	2.5 8.4	n	n
	6	16:14	1.06	n 2.41	10061 9505	5.0 5.3	y	n
	7	16:31	0.91	n 1.74	6231 6880	2.4 3.7	n	n
	8	17:05	0.06	n 1.43	4353 74329	1.9 47.1	n	n
	9	17:15	2.98	n 0.95	11139 3742	4.6 1.4	y	n
	10	18:03	1.16	n 3.51	16060 13848	7.0 5.0	y	n
2,3,7,8-TCDD	11	18:14	2.48	n 0.92	9039 3644	4.6 2.0	y	n
	12	18:26	1.77	n 2.45	17135 9677	3.5 4.9	y	n
	13	18:44	3.20	n 0.96	12142 3795	3.2 1.9	y	n
	14	19:57	1.94	n 3.16	24192 12465	10.9 6.4	y	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total F2 PeCDF

F:2 Mass: 339.860 341.857 Mod? no #Hom:5

Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 19.00 of which 1.69 named and 17.31 unnamed
 Conc: 38.00 of which 3.39 named and 34.61 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:11	1.45 y	23.58	115112 79347	22.2 5.8	y	n
	2	23:03	1.24 n	6.55	32807 26360	7.4 2.6	y	n
2,3,4,7,8-PeCDF	3	23:52	4.05 n	3.39	42535 10499	7.6 1.3	y	n
	4	24:06	0.54 n	2.67	13390 24641	4.7 2.6	y	n
	5	24:42	0.31 n	1.81	9095 29180	4.1 3.7	y	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total F1 PeCDF

F:1 Mass: 339.860 341.857 Mod? no #Hom:14

Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 7.07 of which * named and 7.07 unnamed
 Conc: 14.15 of which * named and 14.15 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:05	0.17 n	0.79	3961 24005	3.0 10.6	n	n
	2	15:26	0.25 n	0.91	4577 18139	3.7 8.9	y	n
	3	15:54	0.65 n	0.69	3436 5255	2.9 2.9	n	n
	4	16:04	1.72 y	1.19	6194 3600	2.8 1.8	n	n
	5	17:07	0.14 n	0.28	1425 10385	1.2 4.1	n	n
	6	17:16	1.17 n	0.83	4177	3.6	y	n

					3568	1.7	n	n
7	17:22	0.12	n	0.24	1208	1.0	n	n
					10124	6.2	y	n
8	17:50	2.05	n	0.51	3348	2.6	n	n
					1636	1.0	n	n
9	18:21	0.61	n	1.69	8447	5.9	y	n
					13893	5.6	y	n
10	18:43	0.53	n	0.66	3298	1.9	n	n
					6197	2.7	n	n
11	19:03	0.51	n	0.88	4391	2.8	n	n
					8631	5.3	y	n
12	19:12	0.33	n	0.70	3530	1.4	n	n
					10696	4.2	y	n
13	19:34	1.05	n	4.08	20424	13.0	y	n
					19481	7.8	y	n
14	20:20	0.81	n	0.70	3532	2.5	n	n
					4370	2.3	n	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:15
Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 16.39 of which * named and 16.39 unnamed
Conc: 32.77 of which * named and 32.77 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:40	0.52	n 2.10	5089 9787	4.4 6.2	y	n
	2	20:54	0.36	n 0.80	1935 5347	1.8 3.3	n	n
	3	21:01	0.83	n 1.41	3422 4140	2.7 2.2	n	n
	4	21:19	2.37	n 2.12	7824 3303	4.2 1.9	y	n
	5	21:28	1.25	n 2.12	5120 4085	2.8 2.6	n	n
	6	21:46	0.77	n 1.25	3013 3894	2.5 1.9	n	n
	7	22:04	1.38	y 1.86	4287 3103	3.8 1.7	y	n
	8	22:32	2.03	n 6.13	19427 9569	9.3 4.0	y	n
	9	22:57	1.78	y 3.68	9379 5271	5.0 3.0	y	n
	10	23:05	4.38	n 3.38	23092 5271	12.0 3.0	y	n
	11	23:14	5.20	n 1.46	11890 2285	6.6 1.4	y	n
	12	25:29	0.72	n 0.98	2375 3317	2.3 1.6	n	n
	13	25:36	2.32	n 2.12	7688 3317	4.5 1.6	y	n
	14	26:34	1.42	y 2.00	4665 3293	2.9 2.1	n	n
	15	27:13	1.85	n 1.37	3949 2132	3.1 1.3	y	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
 Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43
 Tables: Run: 02NO10A1D5 Analyte: T09 Cal: T091029101D5 Results: 02NO10A1

Amount: 28.18 of which 12.25 named and 15.93 unnamed
 Conc: 56.36 of which 24.51 named and 31.86 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:33	0.88 n	1.14	6488 7405	1.2 2.0	n n	n n
	2	28:01	1.61 n	7.97	58790 36527	7.1 5.4	y y	n n
	3	28:18	1.82 n	10.33	86325 47344	9.1 10.4	y y	n n
	4	28:33	2.41 n	1.17	12966 5384	1.4 1.8	n n	n n
	5	29:01	0.31 n	1.53	8670 27713	1.9 6.1	n y	n n
	6	29:07	0.39 n	1.89	10760 27713	2.2 6.1	n y	n n
1,2,3,4,7,8-HxCDF	7	29:34	1.25 y	15.48	87051 69716	12.0 13.1	y y	n n
1,2,3,6,7,8-HxCDF	8	29:42	0.79 n	7.11	46031 57932	6.9 13.1	y y	n n
	9	29:48	1.44 n	4.43	29214 20320	3.7 4.3	y y	n n
	10	30:16	0.31 n	2.49	14175 45973	2.1 6.7	n y	n n
1,2,3,7,8,9-HxCDF	11	31:06	0.50 n	1.92	9573 19106	1.9 2.9	n n	n n
	12	31:41	0.84 n	0.90	5092 6058	1.1 2.0	n n	n n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total HxCDD

F:3 Mass: 389.816 391.813 Mod? no #Hom:5

Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount:	4.25 of which	* named and	4.25 unnamed
Conc:	8.49 of which	* named and	8.49 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:33	0.46 n	1.09	3396 7320	2.4 0.7	n	n
	2	31:05	0.20 n	1.12	3479 17168	1.8 1.8	n	n
	3	31:22	0.28 n	2.20	6871 24972	4.2 5.0	y	n
	4	31:28	0.28 n	2.27	7071 24972	4.0 5.0	y	n
	5	31:42	0.81 n	1.82	5672 6970	1.7 1.6	n	n

Run Text: L84NE-1-AA

Sample text: L84NE-1-AA :G0J260480-7

Name: Total HpCDF

F:4 Mass: 407.782 409.779 Mod? no #Hom:7

Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount:	34.46 of which	19.18 named and	15.29 unnamed
Conc:	68.93 of which	38.35 named and	30.58 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	1.02 y	32.51	119082 116254	15.9 17.8	y	n
	2	32:40	1.51 n	7.57	37360 24716	4.4 4.0	y	n
	3	32:48	0.65 n	8.51	28899 44122	4.4 6.6	y	n
	4	33:39	1.17 y	10.11	36288 31054	4.5 4.9	y	n
1,2,3,4,7,8,9-HpCDF	5	33:43	0.58 n	5.84	18123 31054	3.1 4.9	y	n
	6	34:36	1.50 n	2.12	10378	1.6	n	n

					6914	1.3	n	n
7	34:51	1.51	n	2.27	11203	2.2	n	n
					7420	1.1	n	n

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Run Text: L84NE-1-AA

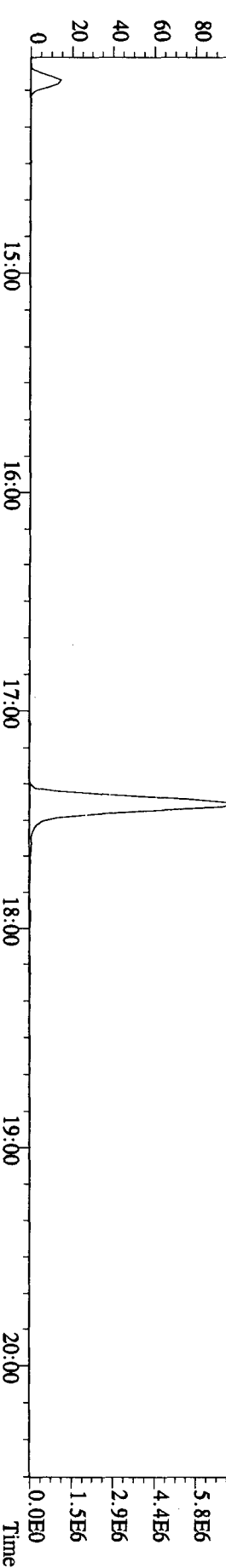
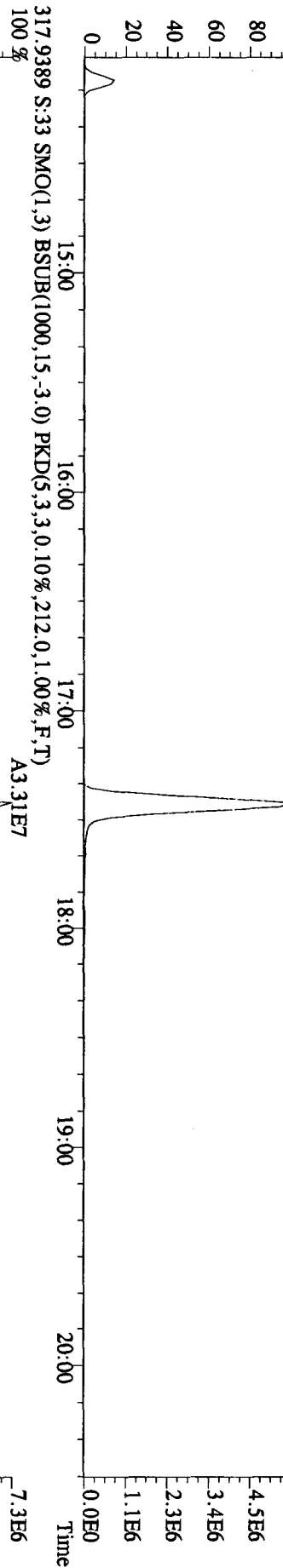
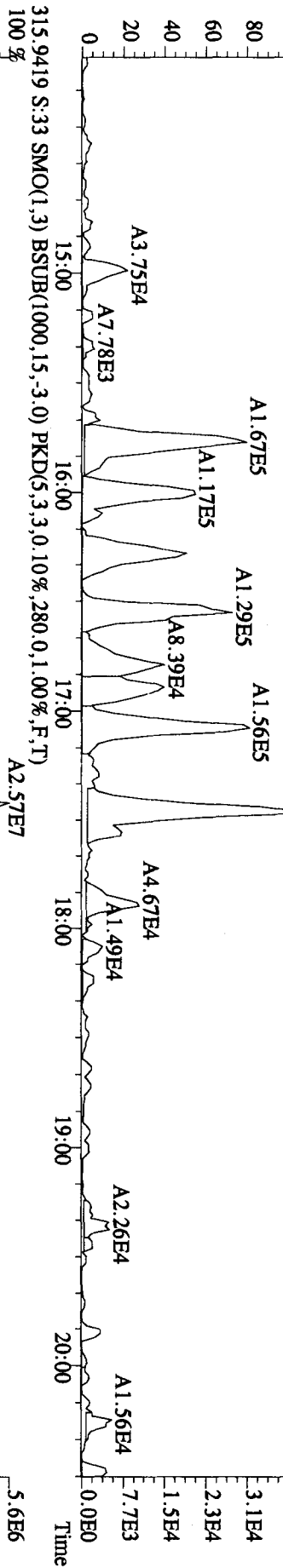
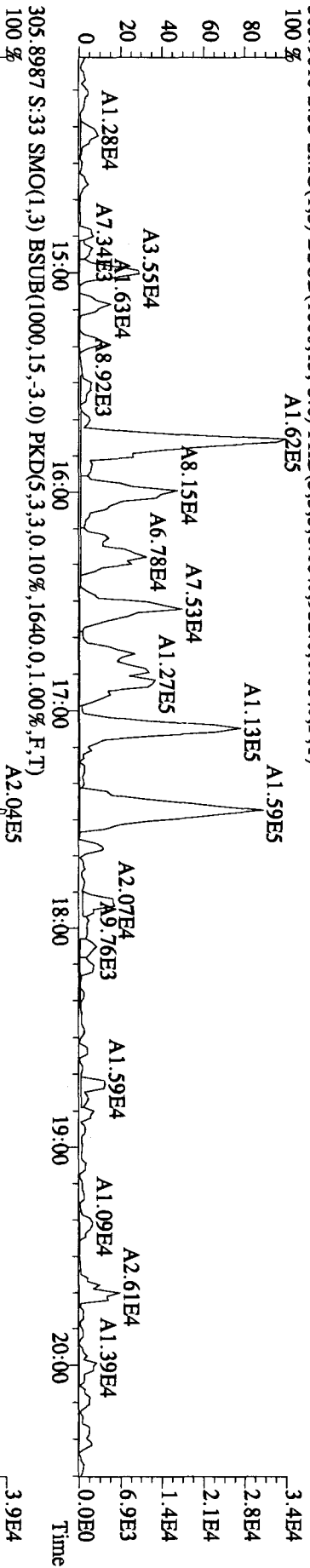
Sample text: L84NE-1-AA :G0J260480-7

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:10
 Run: 12 File: 02NO10A1D5 S:33 Acq:3-NOV-10 13:26:43
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

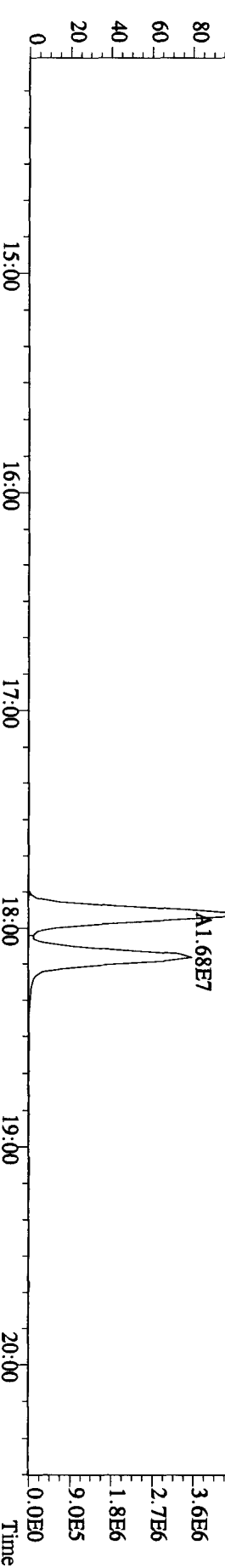
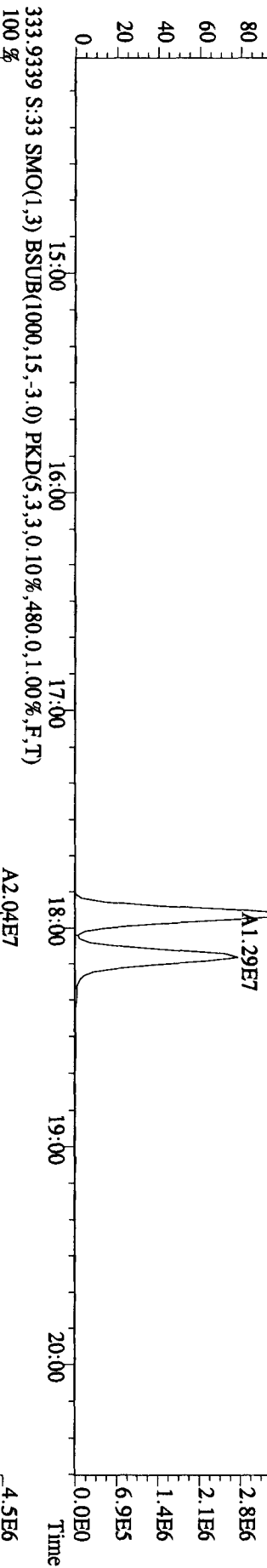
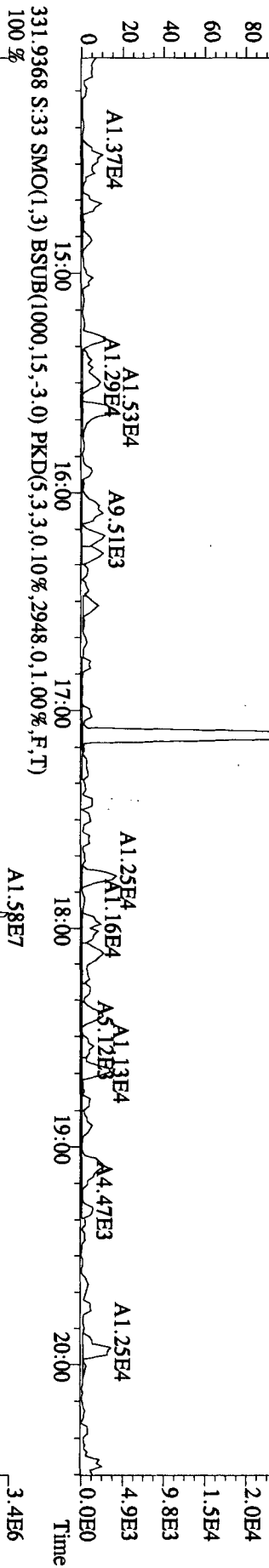
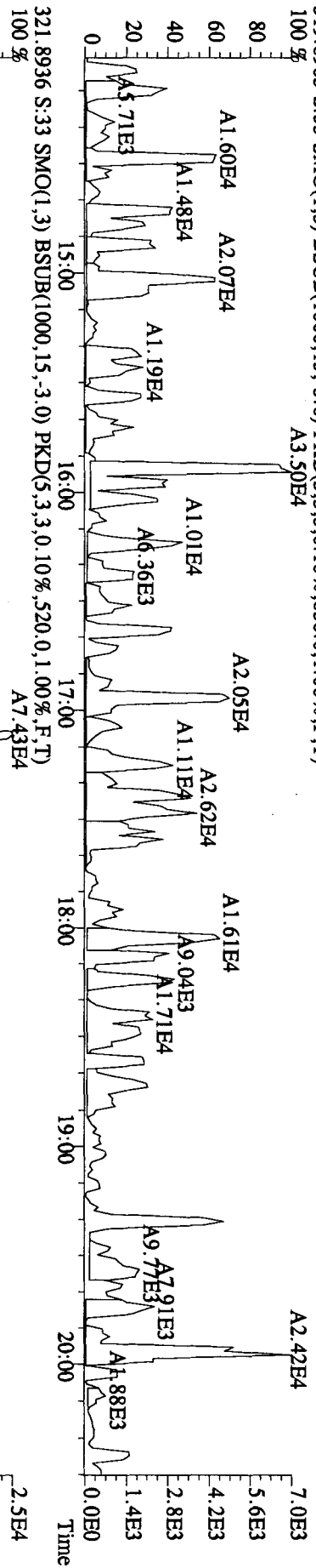
Amount:	17.32 of which	3.64 named and	13.68 unnamed
Conc:	34.63 of which	7.28 named and	27.35 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:25	2.33	n	2.90	14637	4.8	y n
					6285	3.9		y n
	2	32:44	1.15	y	7.99	18899	7.2	y n
					16368	9.1		y n
	3	33:05	2.93	n	2.73	17342	10.6	y n
					5910	3.1		y n
1,2,3,4,6,7,8-HpCDD	4	33:19	1.60	n	7.28	25267	7.7	y n
					15763	9.5		y n
	5	33:35	0.96	y	3.65	7873	3.9	y n
					8233	6.2		y n
	6	33:41	1.37	n	3.11	9221	3.1	y n
					6742	3.4		y n
	7	34:01	2.96	n	0.87	5574	1.6	n n
					1885	1.6		n n
	8	34:10	0.97	y	2.08	4522	1.9	n n
					4659	3.8		y n
	9	34:20	2.23	n	1.16	5618	3.2	y n
					2520	1.4		n n
	10	34:51	0.76	n	2.86	6437	3.6	y n
					8428	5.0		y n

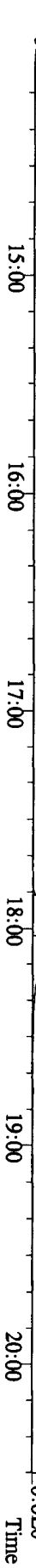
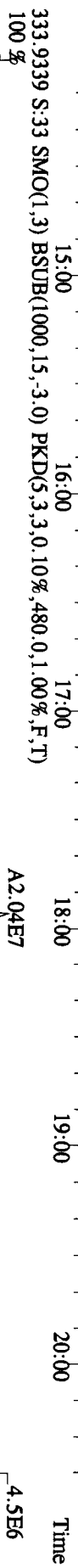
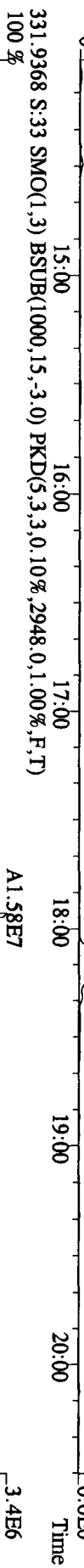
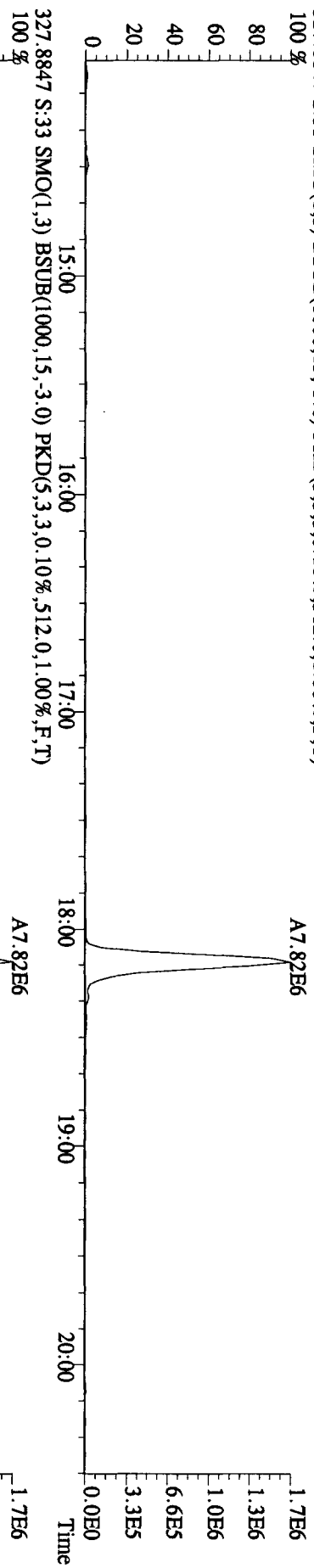
File: 02N010A1D5 #1-382 Acq: 3-NOV-2010 13:26:43 GC EI + Voltage SIR 70SE
 Sample#33 Text: L84NE-1-AA :G0J260480-7 Exp: DIOXINRES
 303 9016 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,932.0,1.00%,F,T)
 100 % A1.62E5



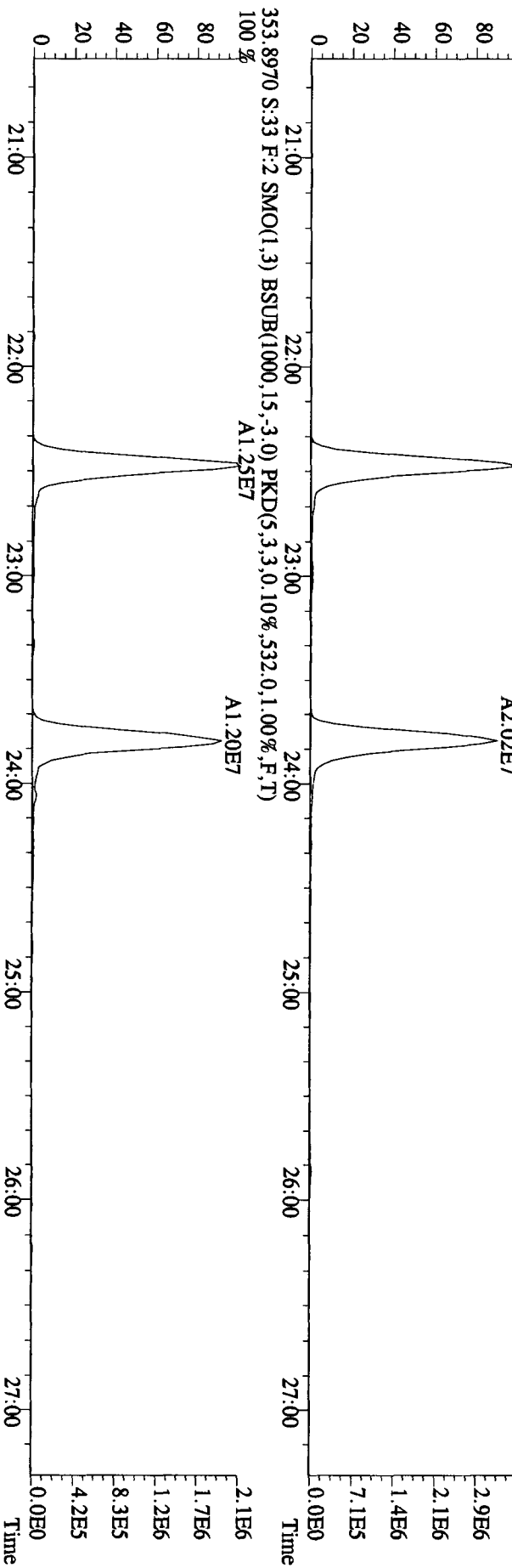
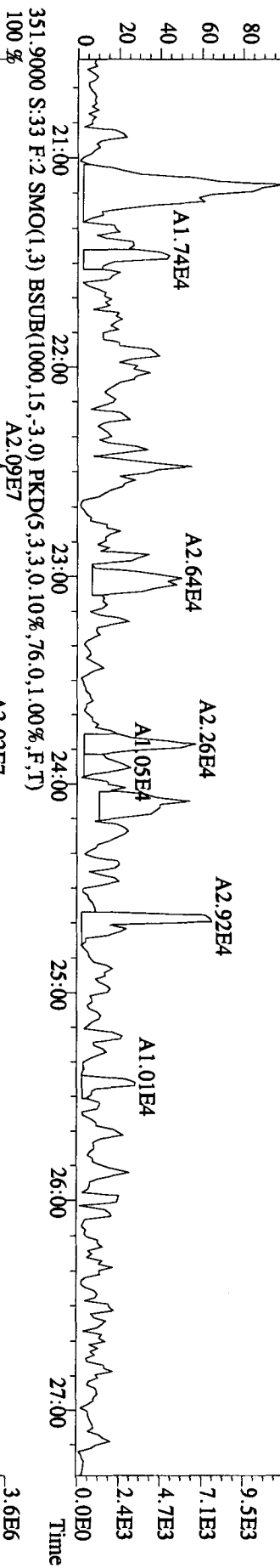
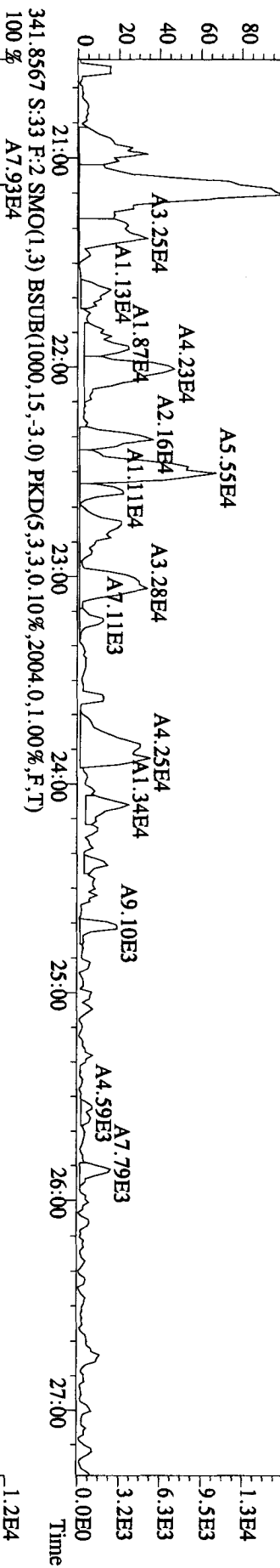
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:1.84NE-1-AA :G01260480-7 Exp:DIOXINRES
 319.8965 S:3.3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)
 100%



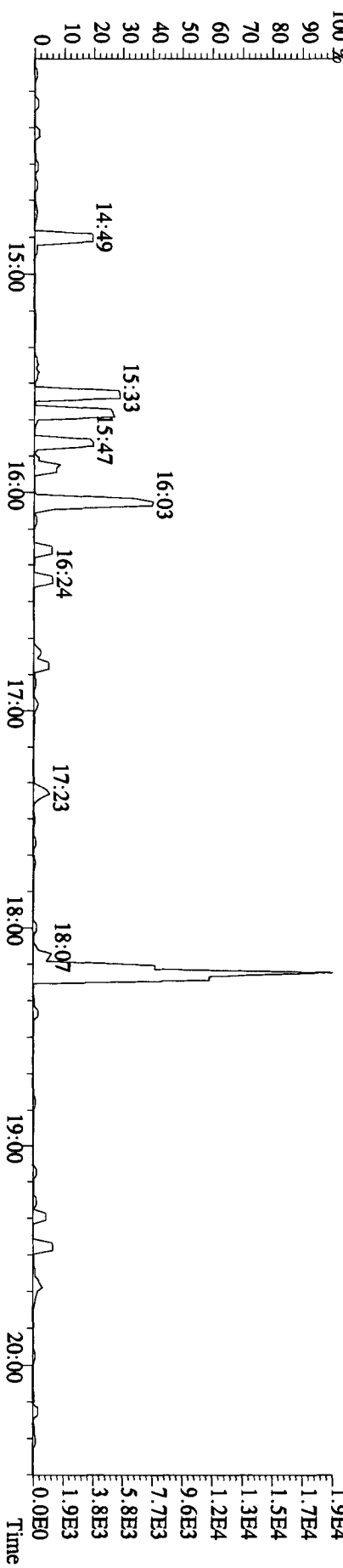
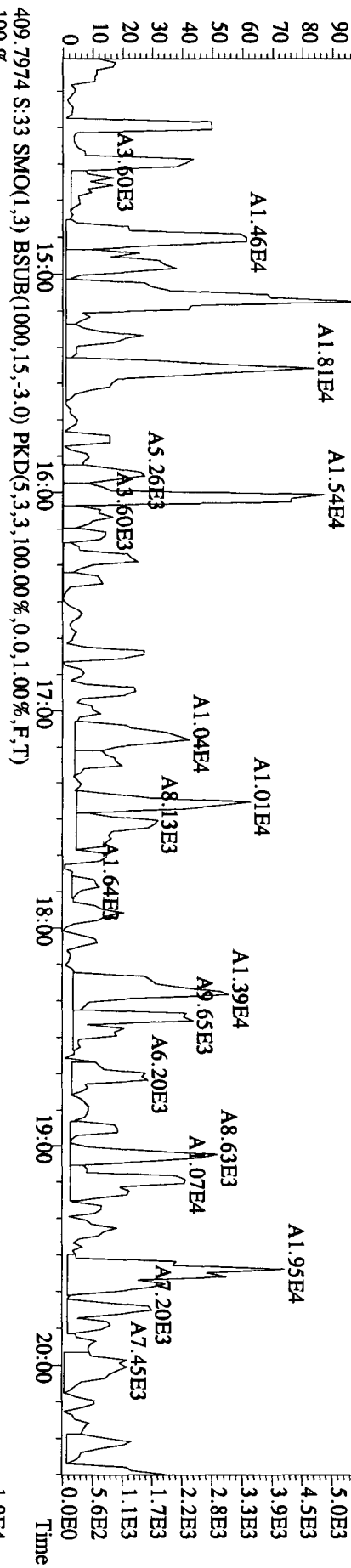
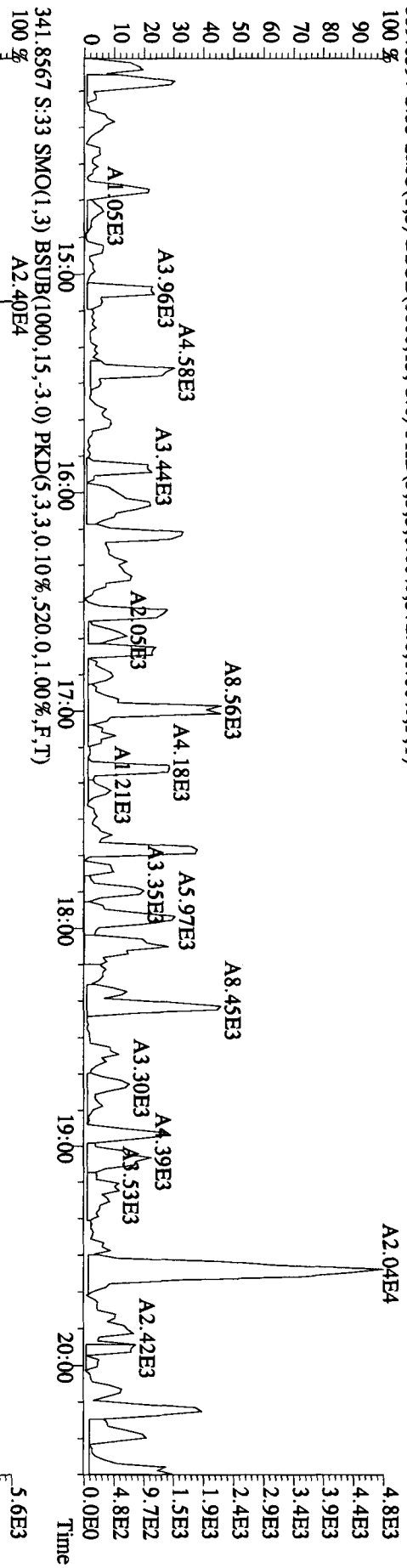
File:02NO10A1ID5 #1-382 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
Sample#33 Text:L84NE-1-AA :G0J260480-7 Exp:DIOXINRES
327.8847 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,512.0,1.00%,F,T)
100 %

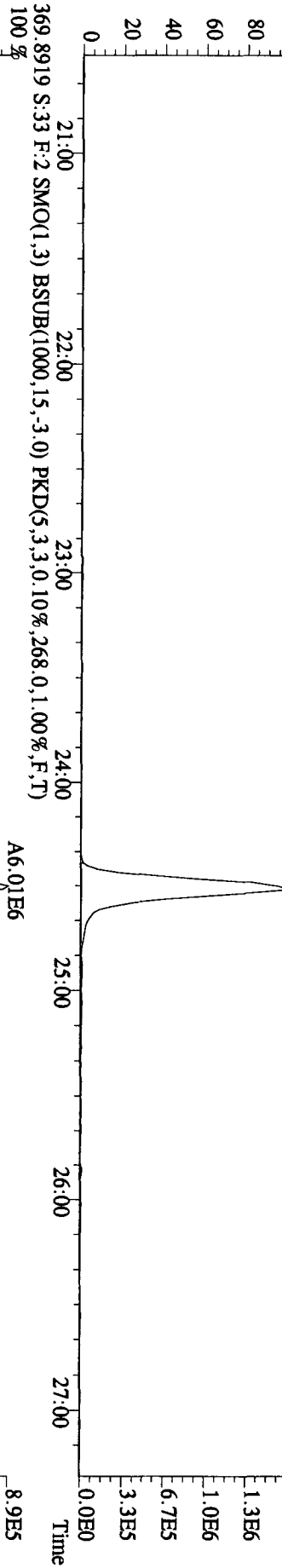
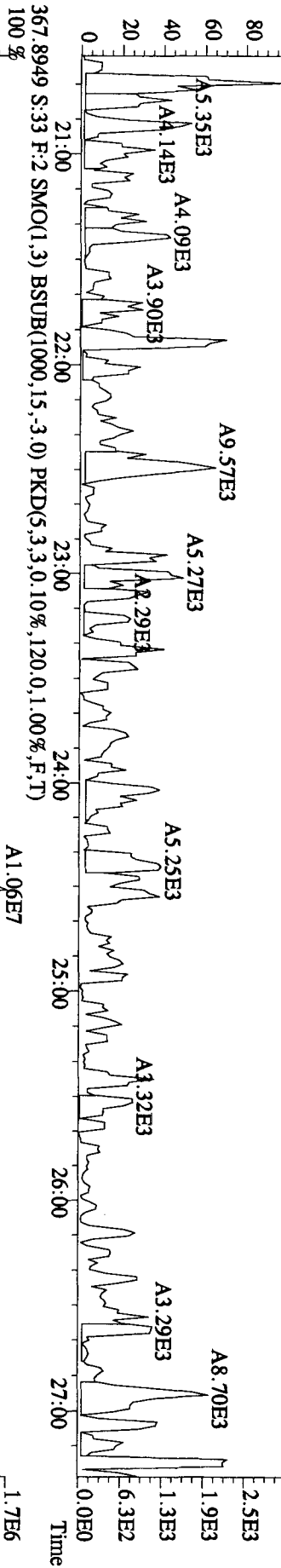
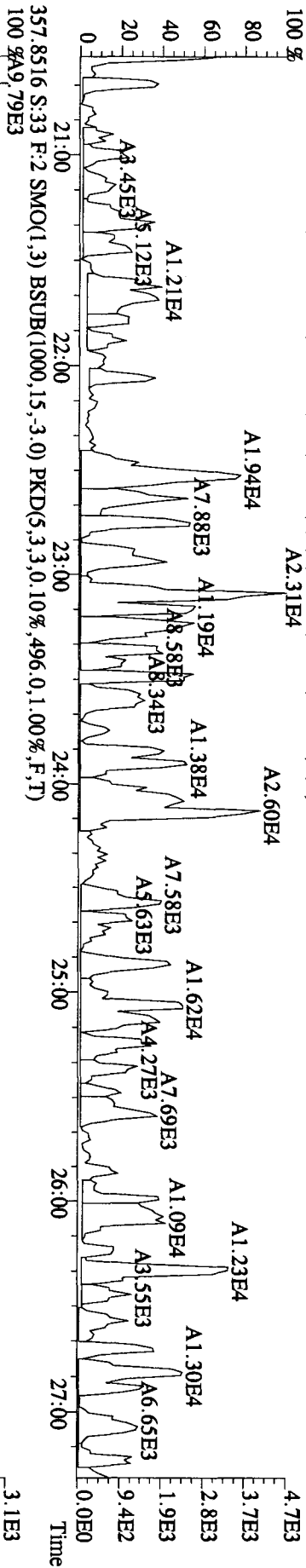


File:02NO10A1D5 #1-423 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
Sample#33 Text:1.84NE-1-AA :G01260480-7 Exp:DIOXINRES
339.8597 S:3.3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,712.0,1.00%,F,T)
100% A1.15E5

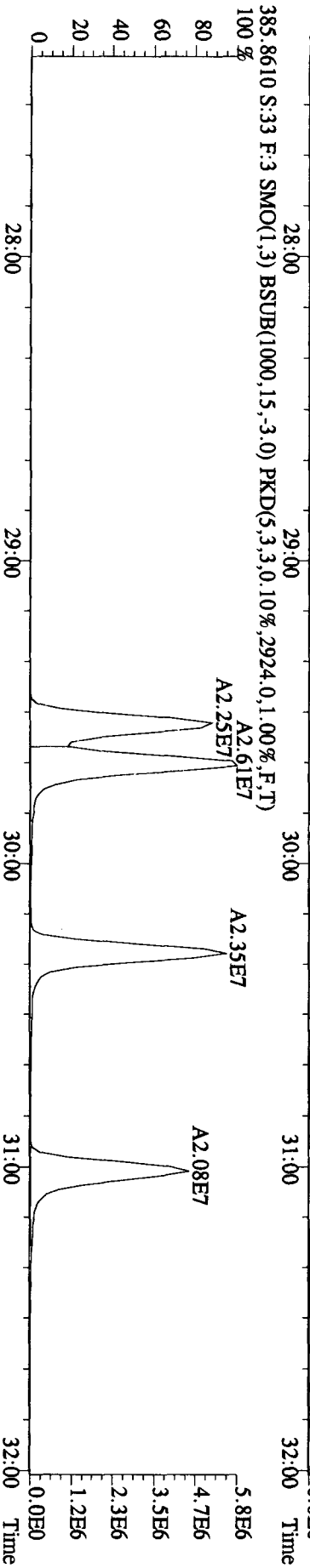
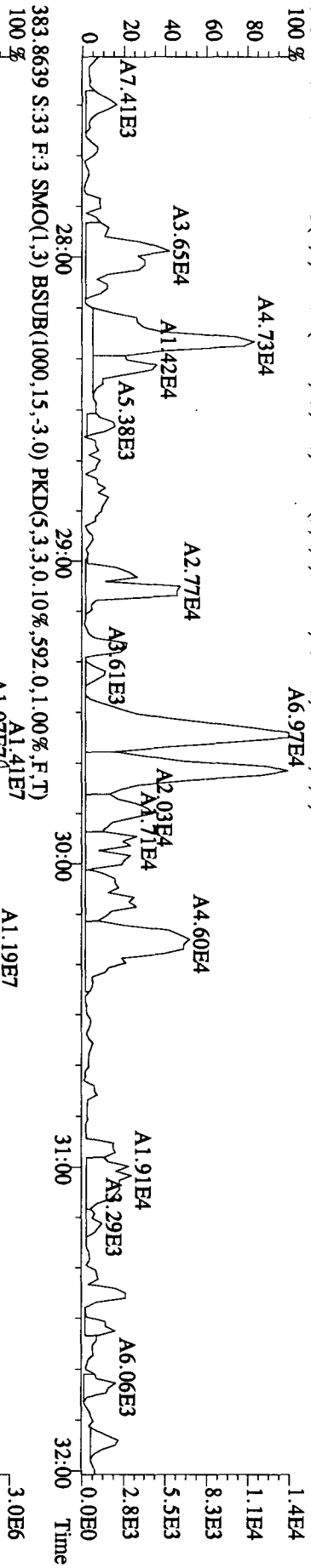
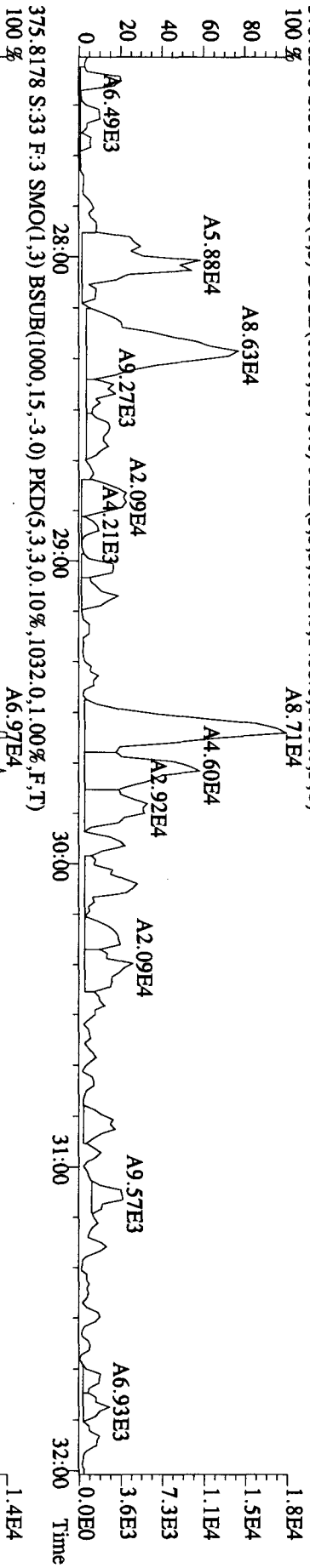


File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:L84NE-1-AA :G01260480-7 Exp:DIOXINRES
 339.8597 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,372.0,1.00%,F,T)

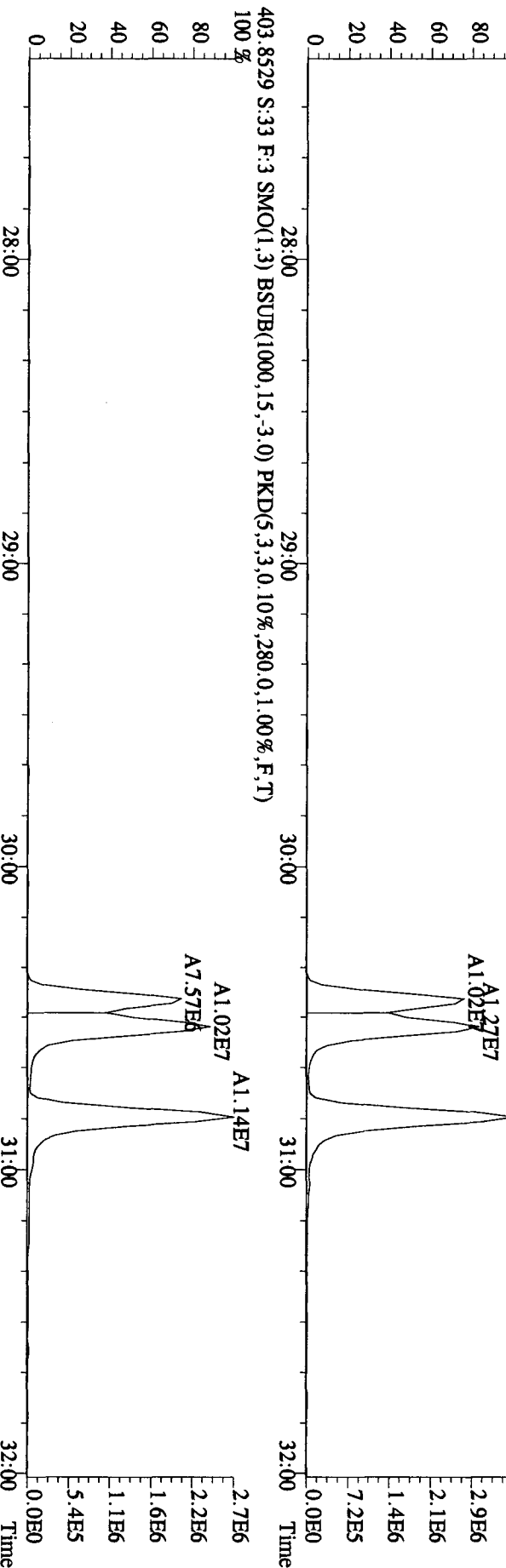
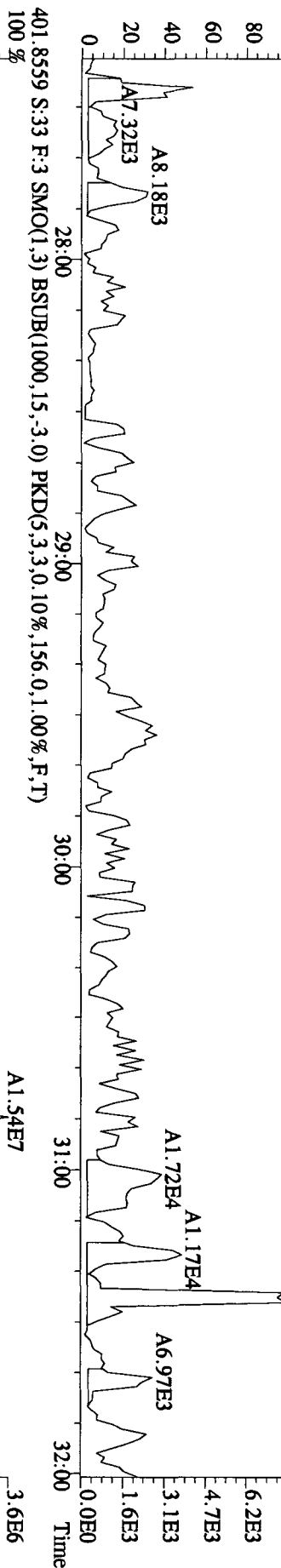
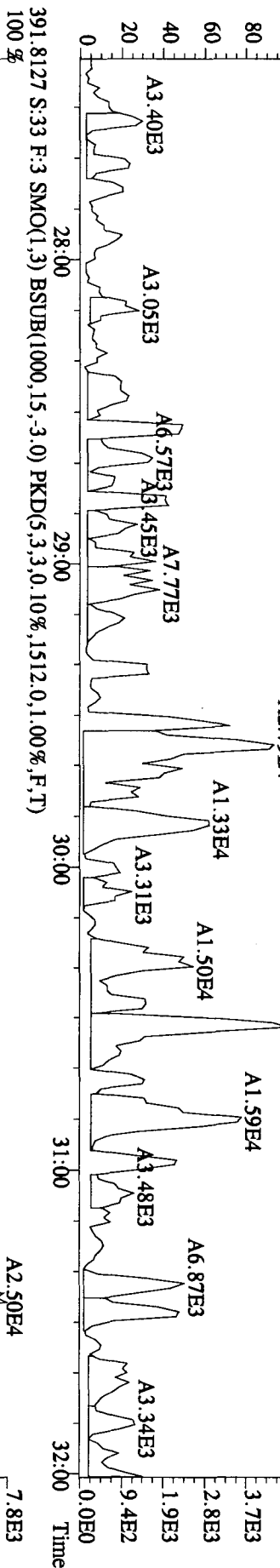




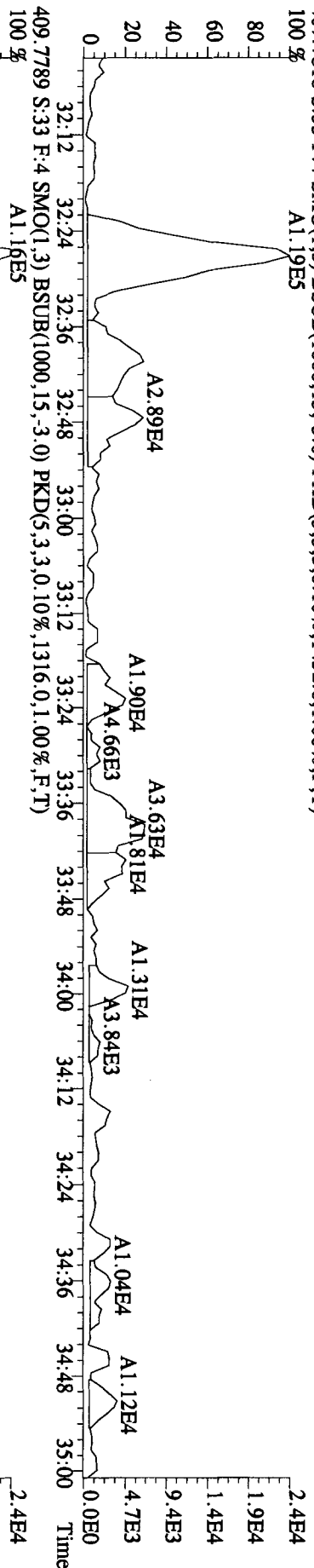
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:L84NE-1-AA :G01260480-7 Exp:DIOXINRES
 373 8208 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1468,0,1,00%,F,T)
 100%



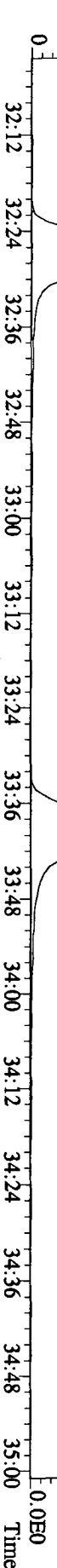
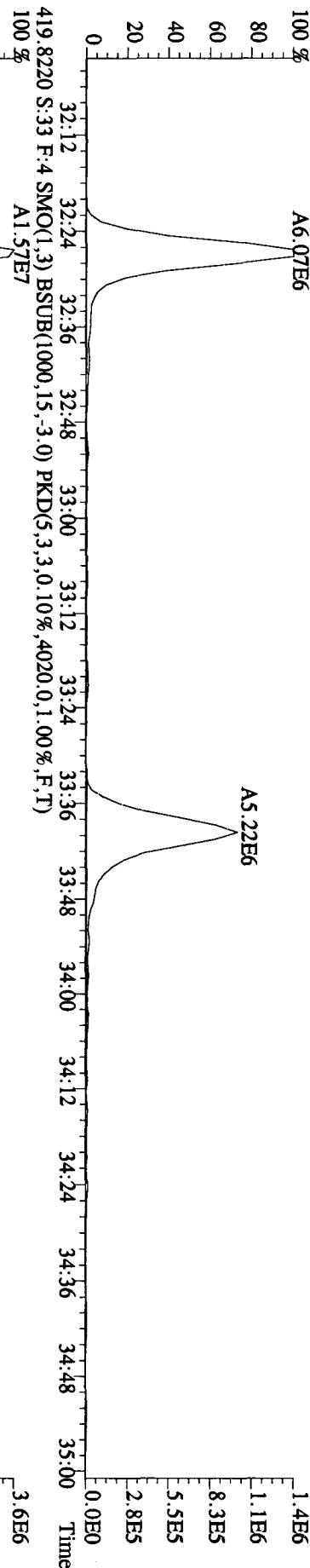
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:L84NE-1-AA :G0J260480-7 Exp:DIOXINRES
 389.8157 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,540,0,1,00%,F,T)



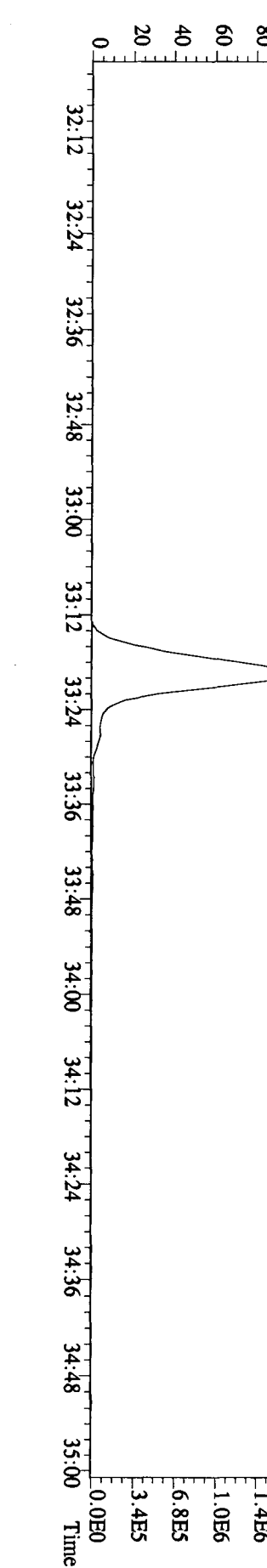
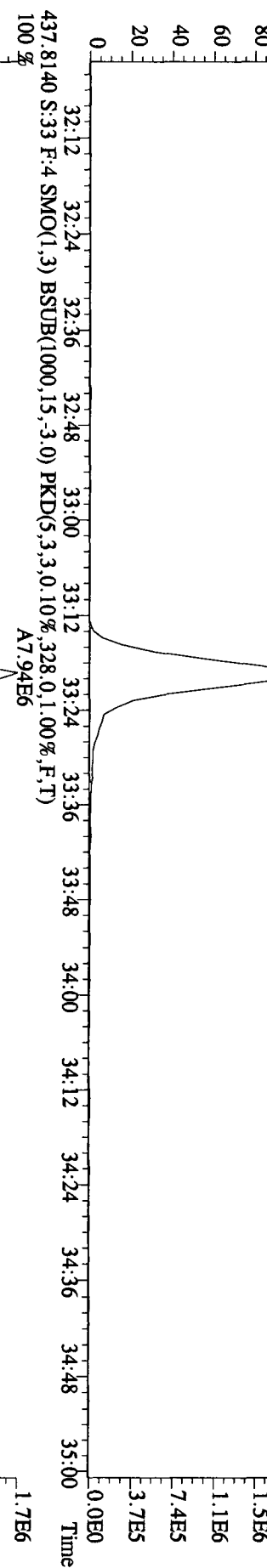
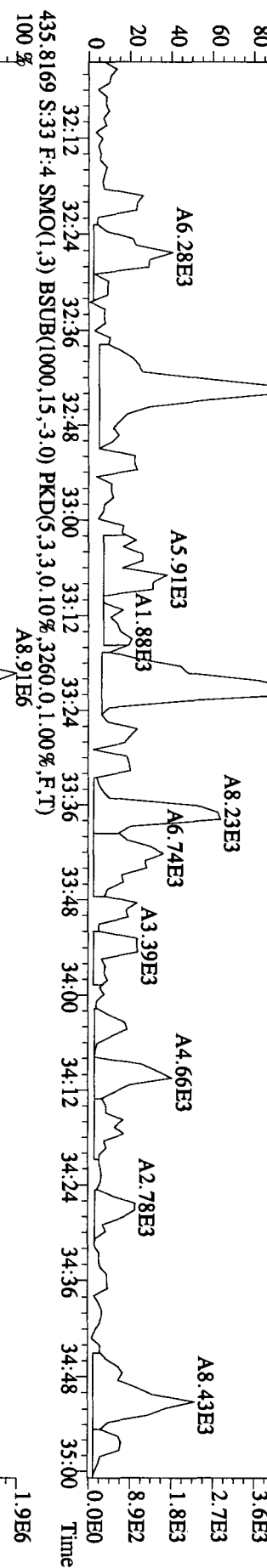
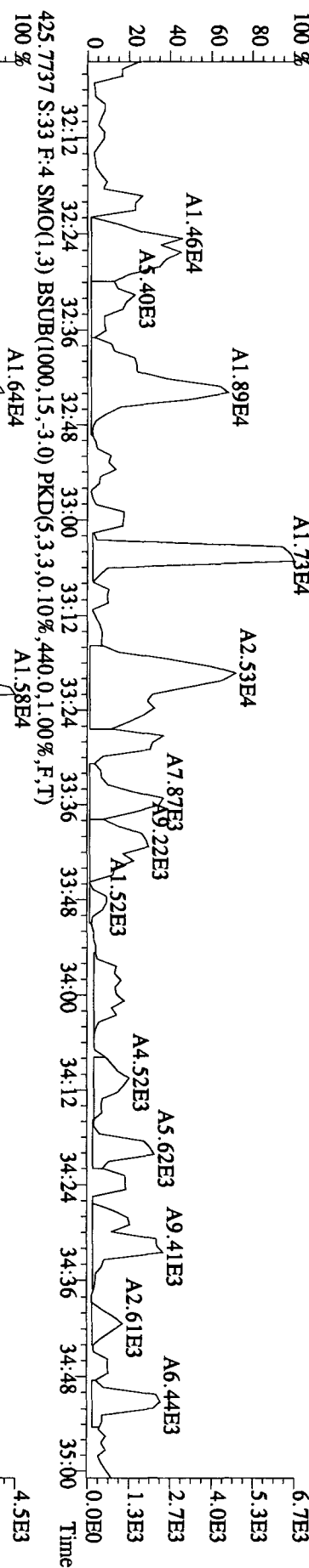
407.7818 S:33 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1452,0,1,00%,F,T)



417.8253 S:33 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4300,0,1,00%,F,T)

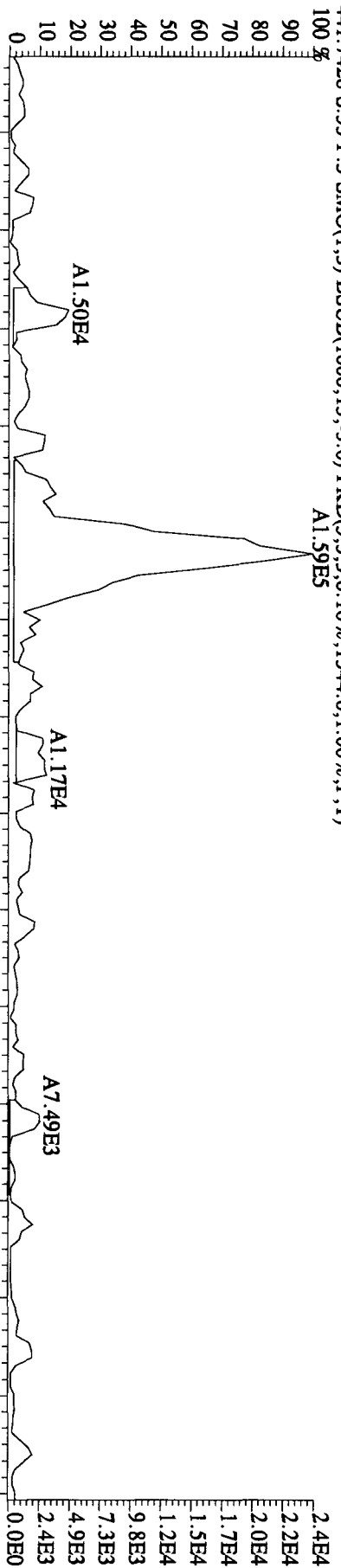


File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text: L84NF-1-AA :G0J260480-7 Exp: DIOXINRES
 423.7766 S:3.3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,612.0,1.00%,F,T)
 100 % A1.73E4



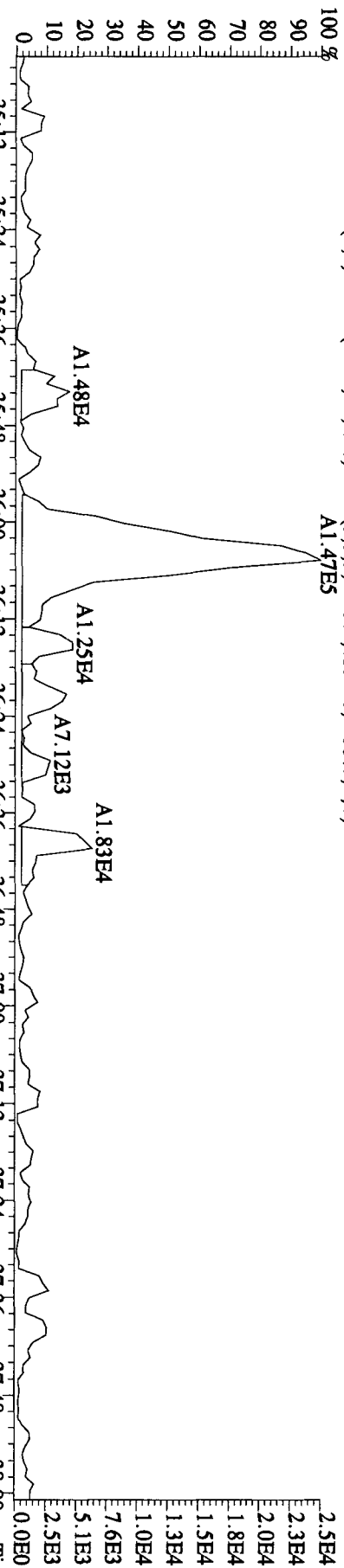
Sample#33 Text:L84NE-1-AA :G0J260480-7
441.7428 S:33 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1592.0,1.00%,F,T)

A1.59E5



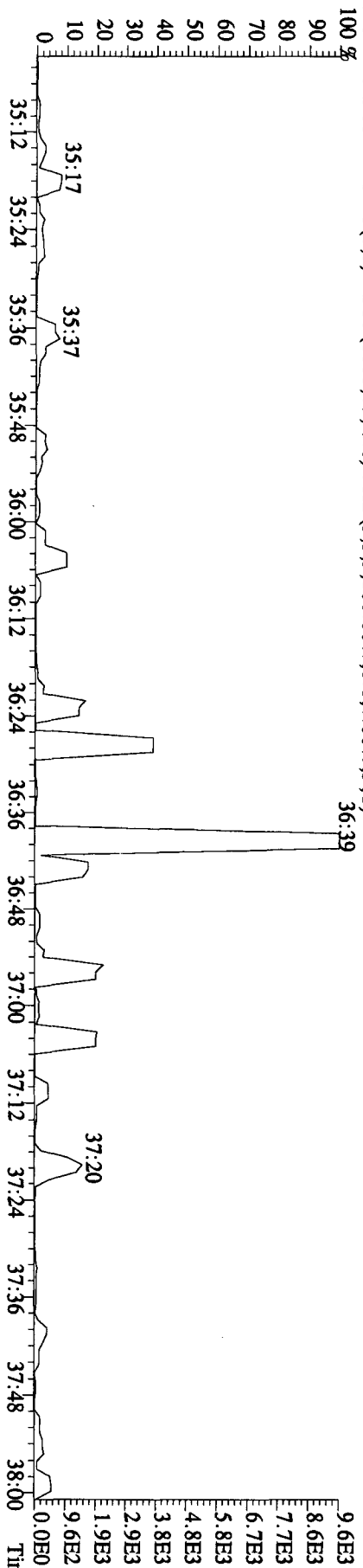
443.7399 S:33 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1592.0,1.00%,F,T)

A1.47E5

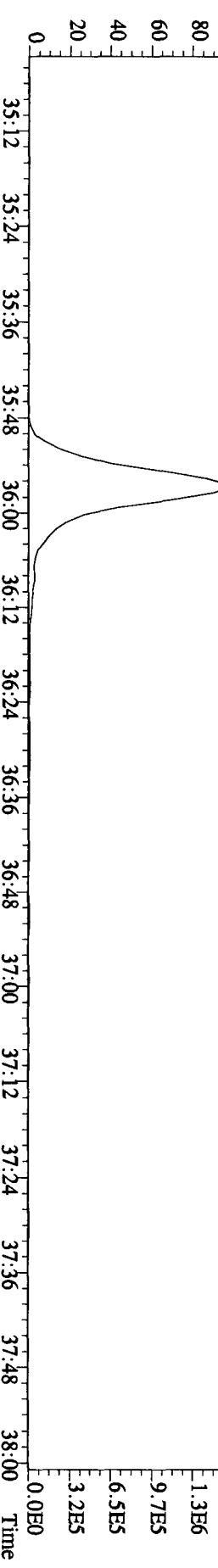
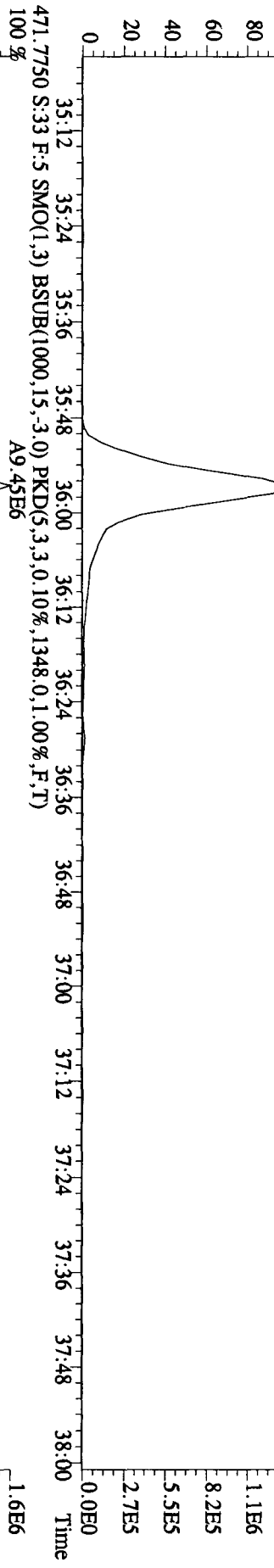
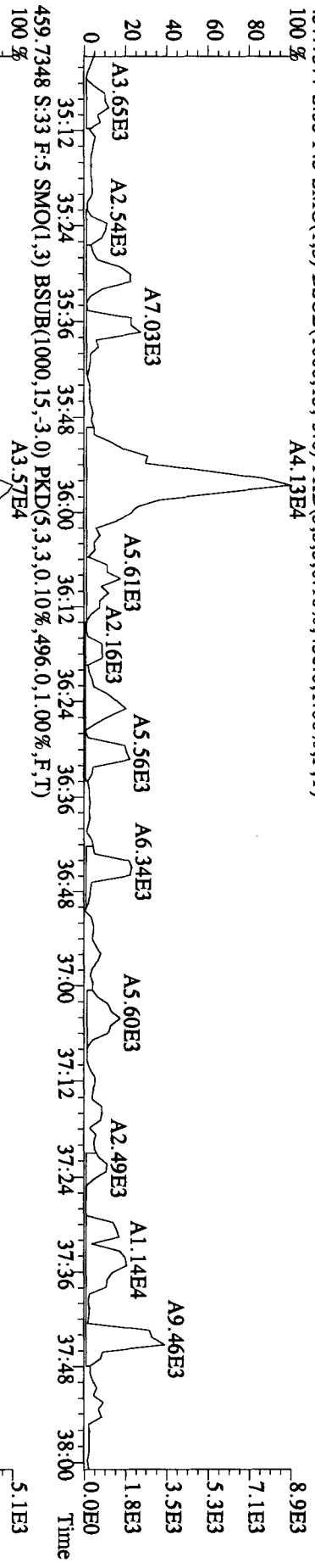


513.6775 S:33 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1592.0,1.00%,F,T)

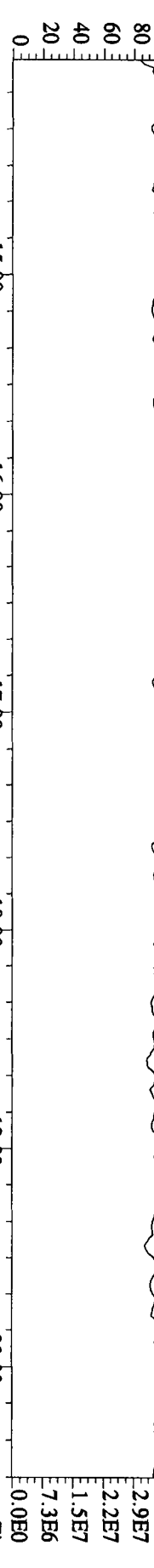
100%



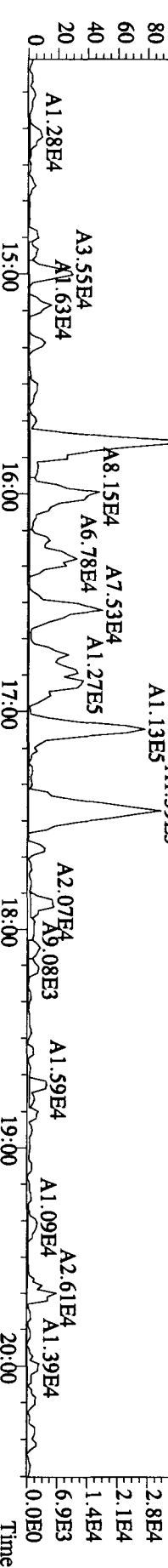
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:L84NE-1-AA :G0J260480-7 Exp:DIOXINRES
 457.7377 S:3.3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,436.0,1.00%,F,T)



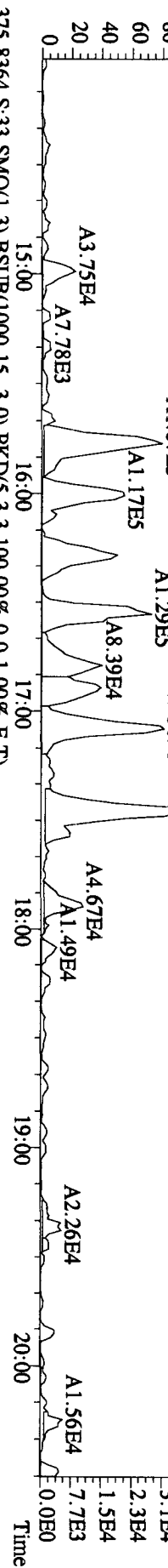
292.9825 S:33 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T) 14:25 14:50 15:21 15:47 16:17 16:49 17:22 17:52 18:15 18:58 19:33 20:09



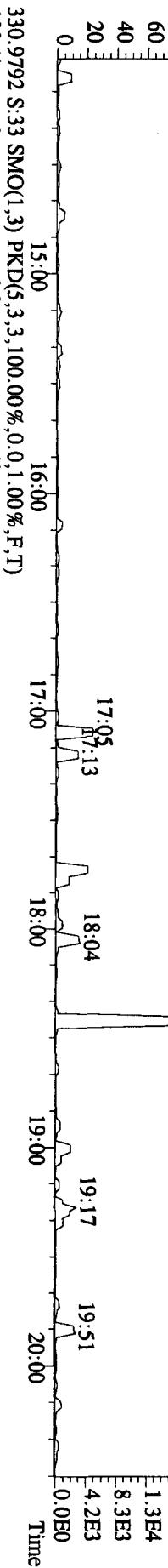
303.9016 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,932.0,1.00%,F,T) 15:00 16:00 17:00 18:00 19:00 20:00



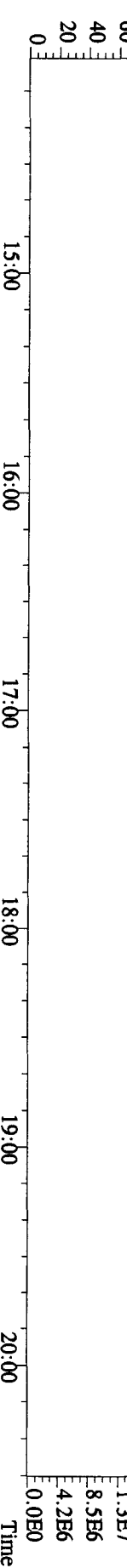
305.8987 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1640.0,1.00%,F,T) 15:00 16:00 17:00 18:00 19:00 20:00



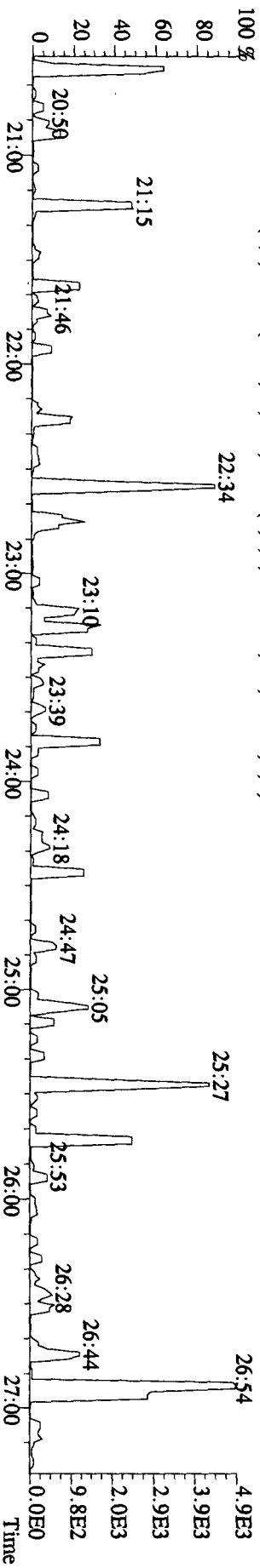
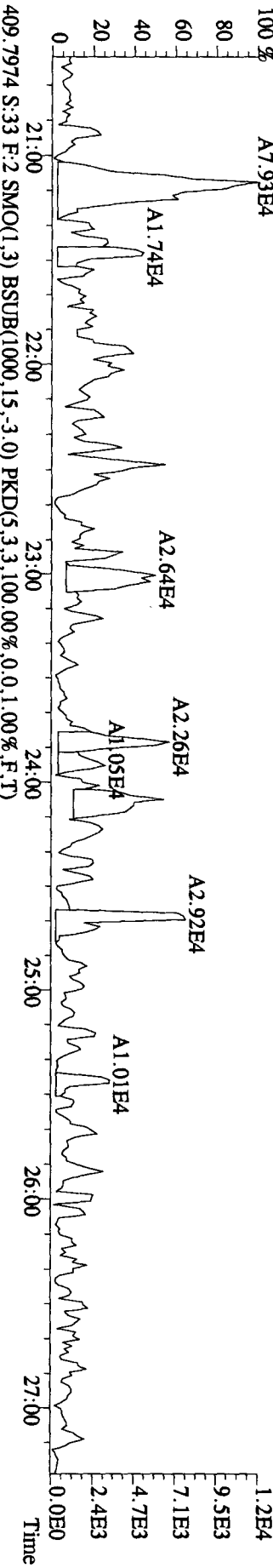
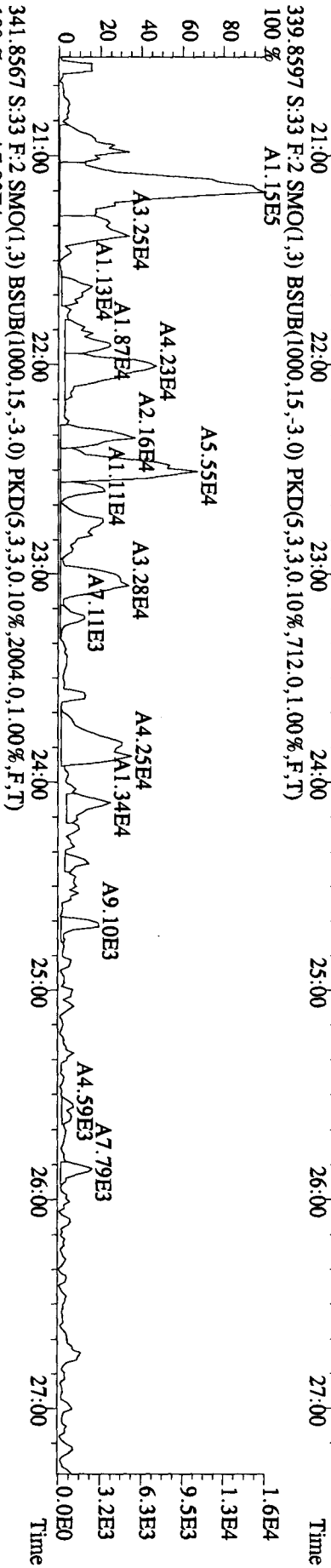
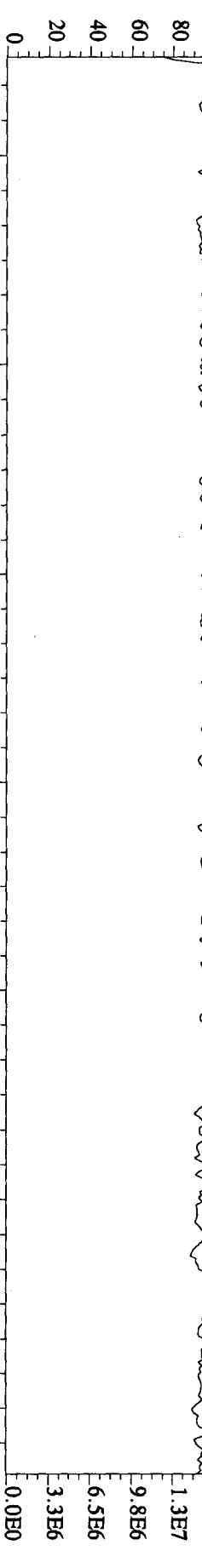
375.8364 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 15:00 16:00 17:00 18:00 19:00 20:00



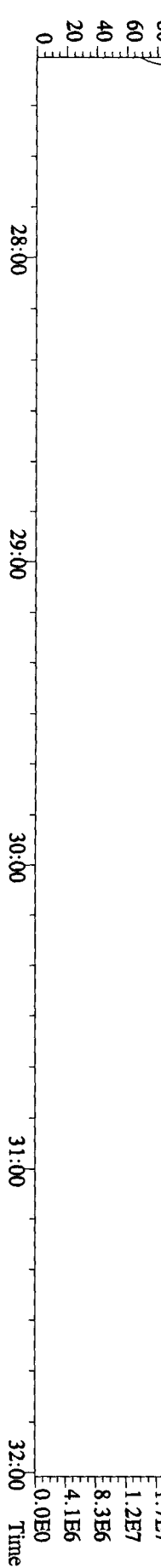
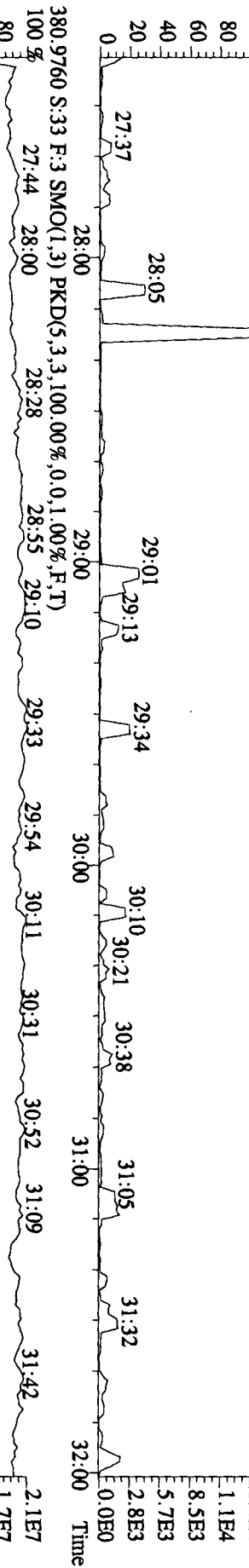
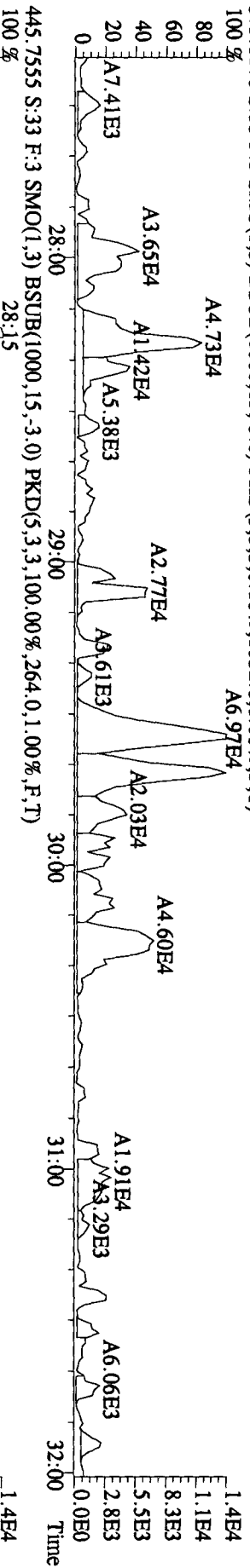
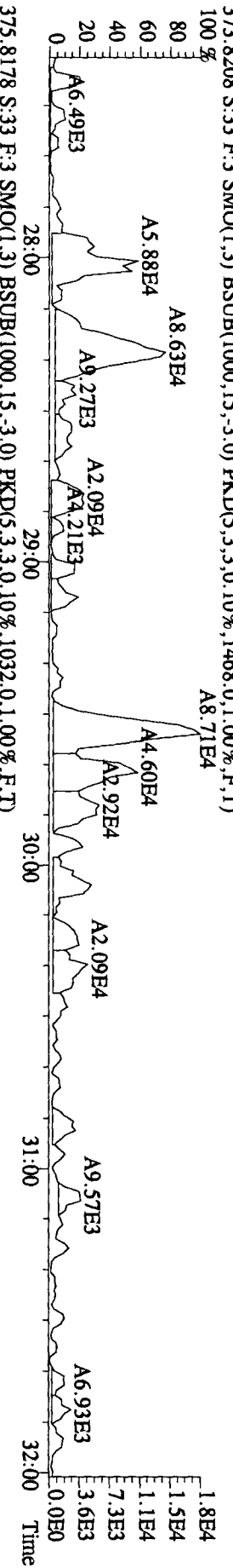
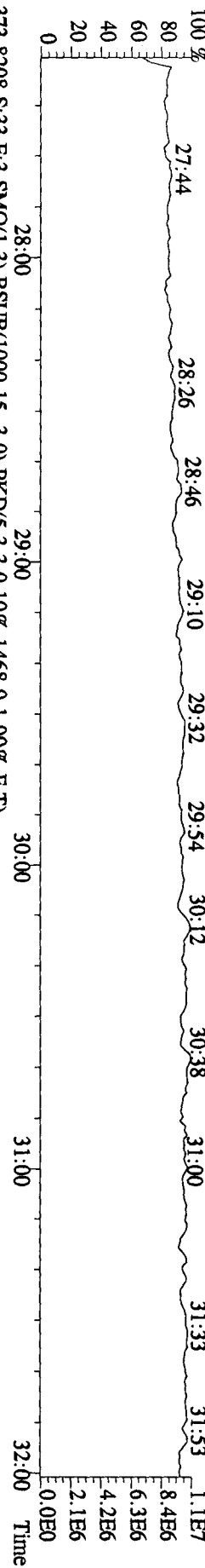
330.9792 S:33 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 14:16 14:43 15:07 15:49 16:22 16:50 17:32 18:00 18:27 19:07 19:42 20:08

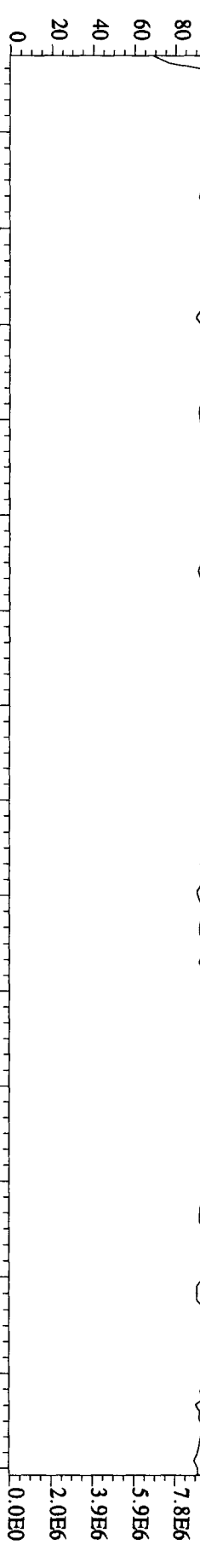


File:02NO10A1D5 #1-423 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text:L84NE-1-AA :G0J260480-7 Exp:DIOXINRES
 342.9792 S:33 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 20:53 21:42 22:09 22:31 23:07 23:42 24:07 24:35 25:01 25:27 25:56 26:41 27:06

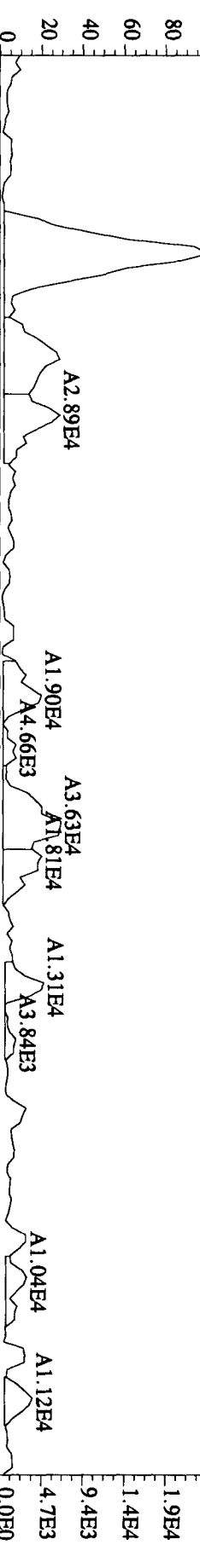


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 13:26:43 GC EI + Voltage S1R 70SE
 Sample#33 Text: L84NE-1-AA :G0J260480-7 Exp: DIOXINRES

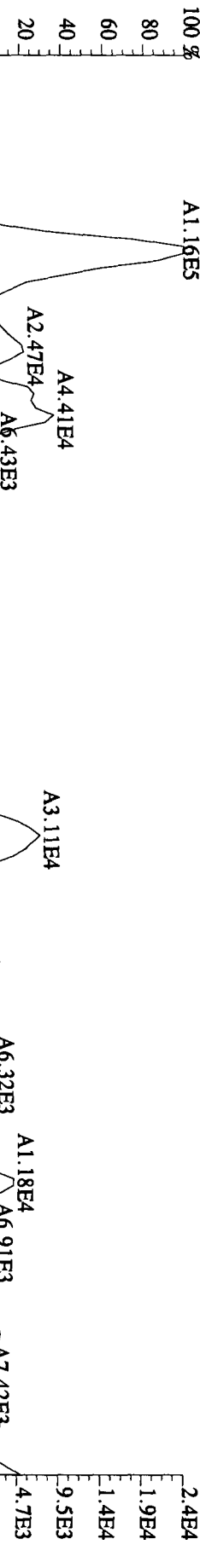




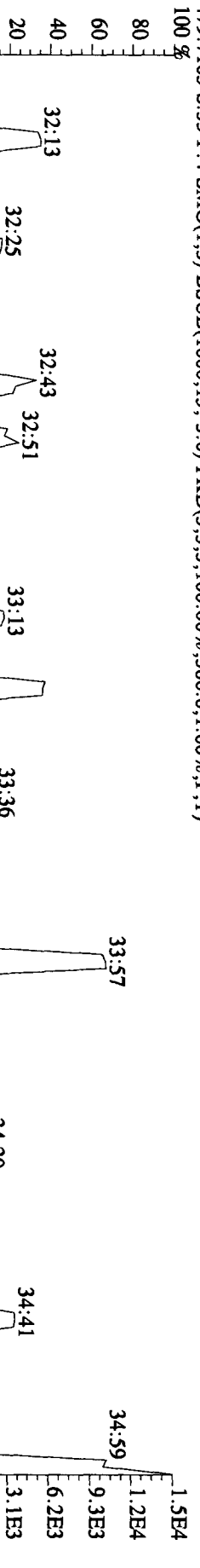
407.7818 S:3.3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1452.0,1.00%,F,T)



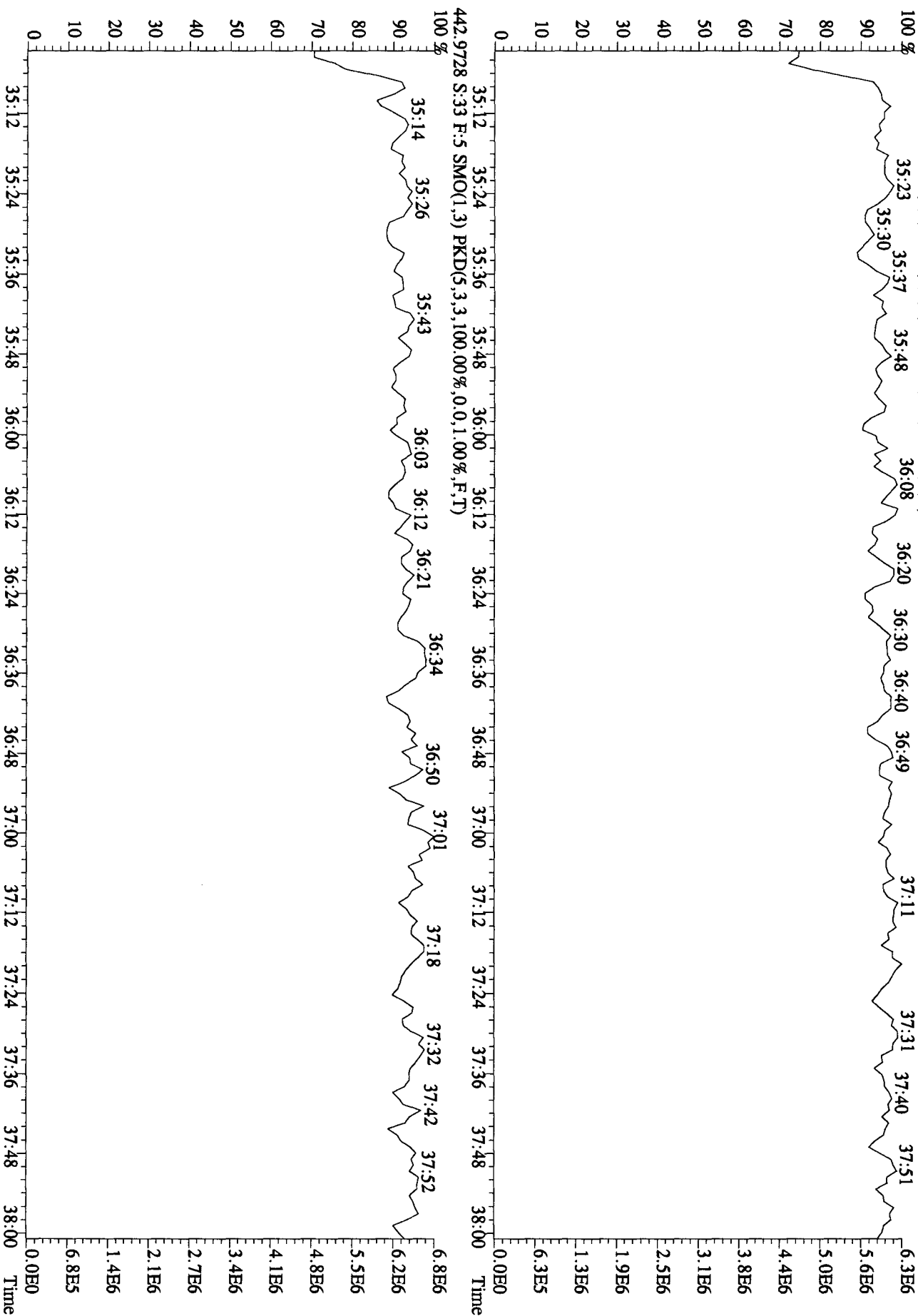
409.7789 S:3.3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1316.0,1.00%,F,T)



479.7165 S:3.3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,368.0,1.00%,F,T)



File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 13:26:43 GC EI+ Voltage SIR 70SE
 Sample#33 Text: L84NE-1-AA : G0J260480-7 Exp: DIOXINRES
 454.9728 S:3.3 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

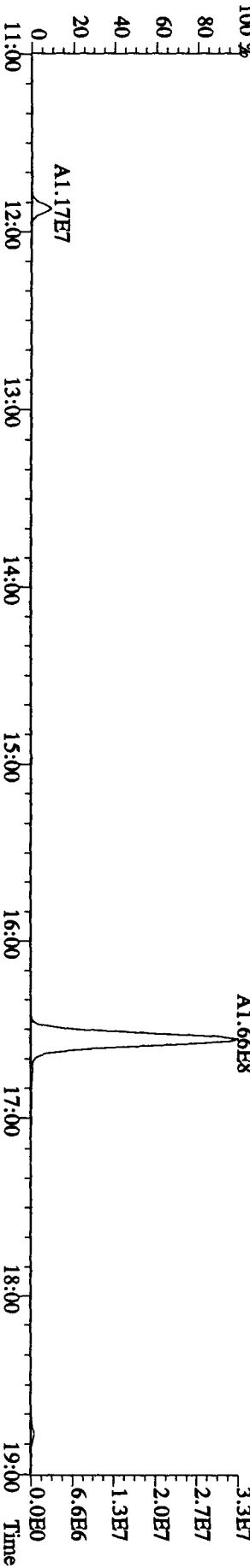
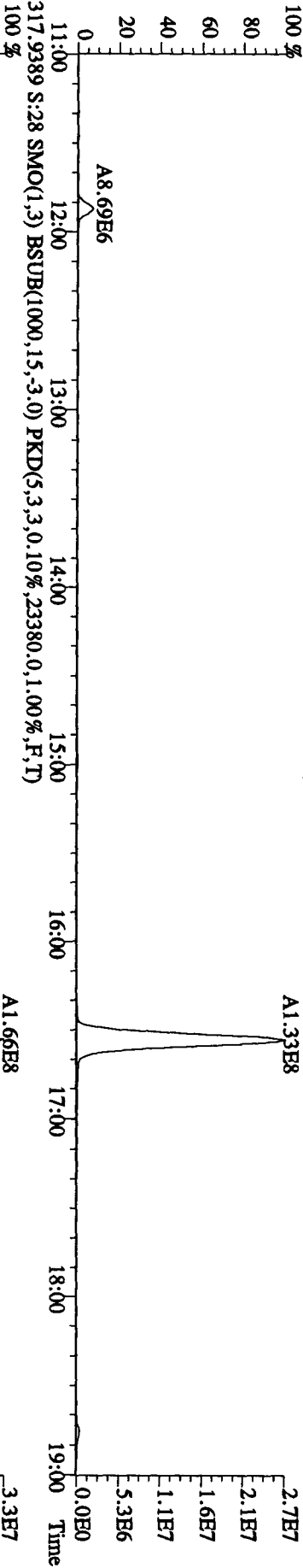
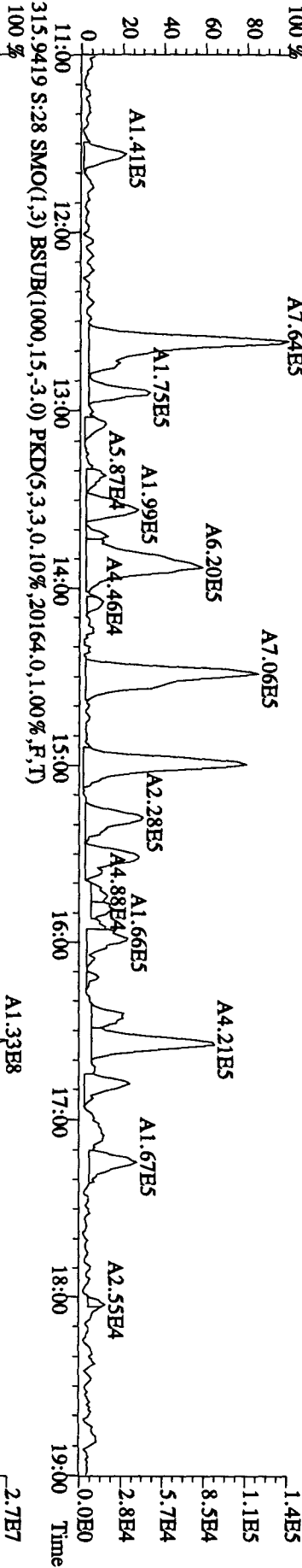
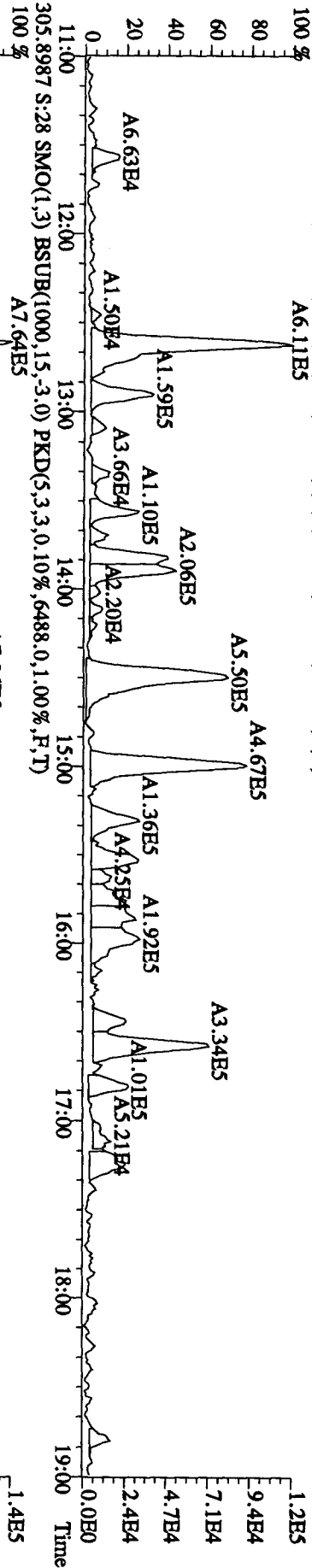


Run text: L84NE-1-AA Sample text: L84NE-1-AA :G0J260480-7
 Run #9 Filename: 04NO105D2 S: 28 I: 1 Results: 04NO105D2DB225AIR
 Acquired: 5-NOV-10 00:46:45 Processed: 5-NOV-10 08:39:53
 Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAM

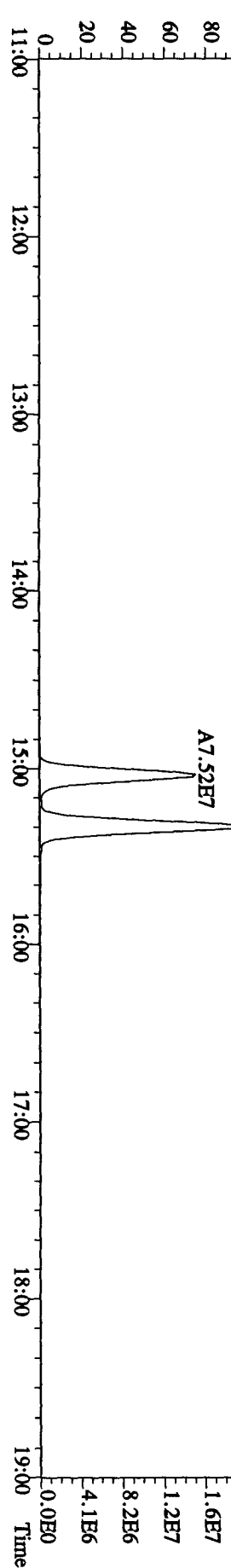
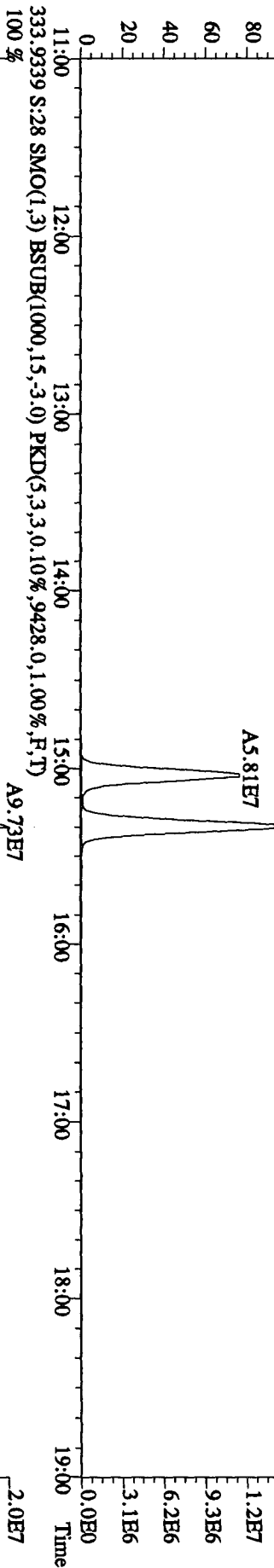
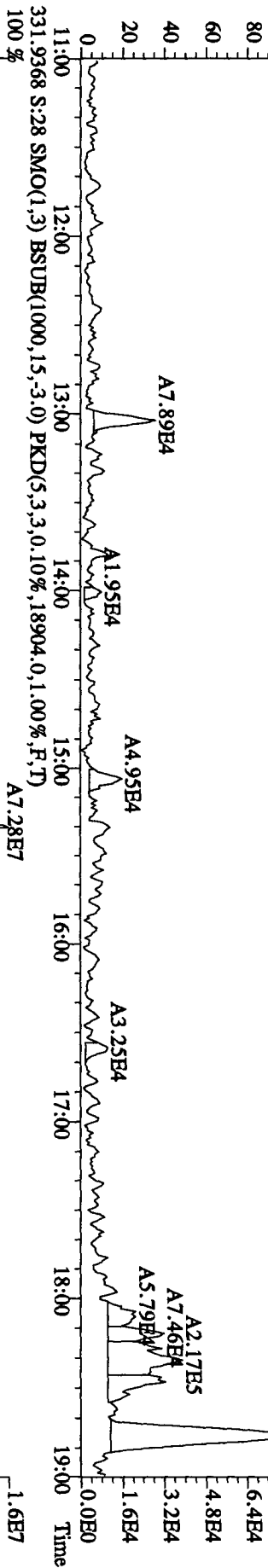
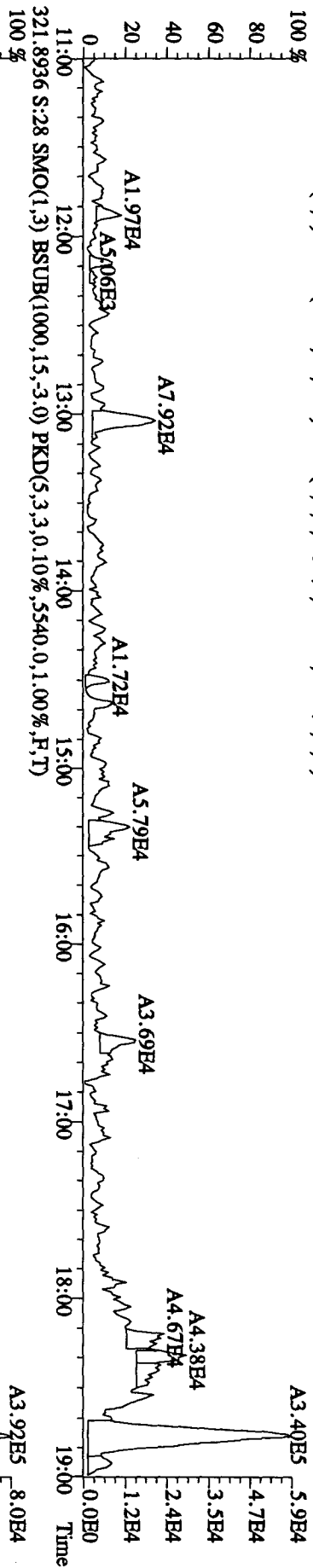
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	170042000	0.75	y	15:20	-	183.10	-	n
						3298		82.4
13C-2,3,7,8-TCDF	298614000	0.80	y	16:33	1.64 2.135	4293.43	8.87	107.3 n
2,3,7,8-TCDF	754253	0.79	y	16:35	1.06	9.54	2.10	n
13C-2,3,7,8-TCDD	133351200	0.77	y	15:02	0.96	3277.41	9.87	81.9 n
2,3,7,8-TCDD	*	* n	NotFnd	1.24	*	*	3.69	n
37Cl-2,3,7,8-TCDD	74921000	1.00	y	15:04	1.54	1463.31	4.27	91.5 n

05 11-5-10

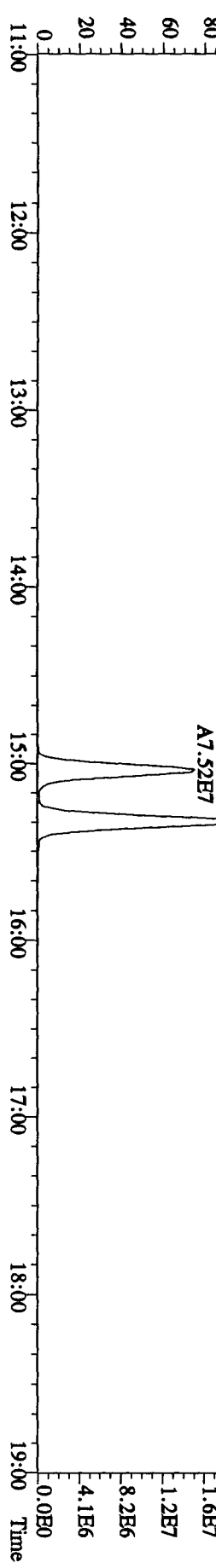
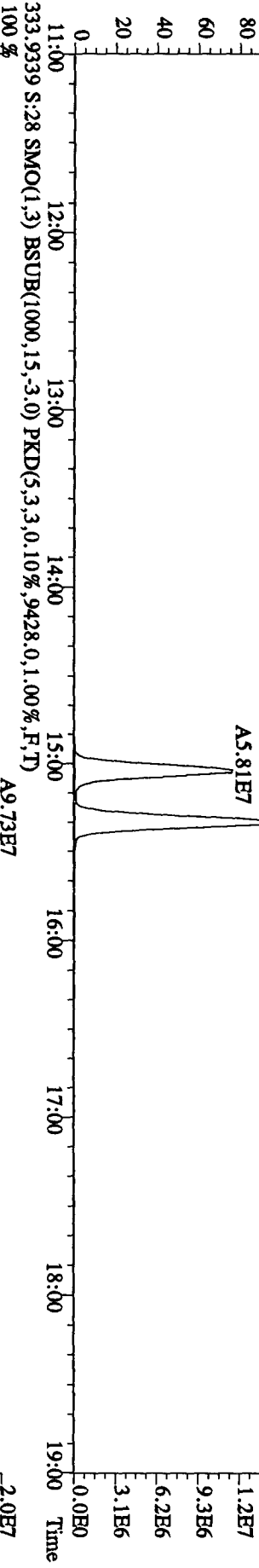
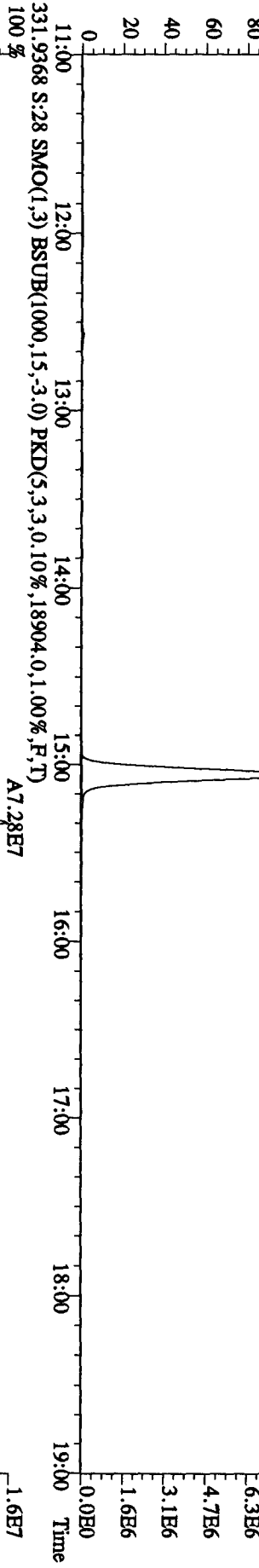
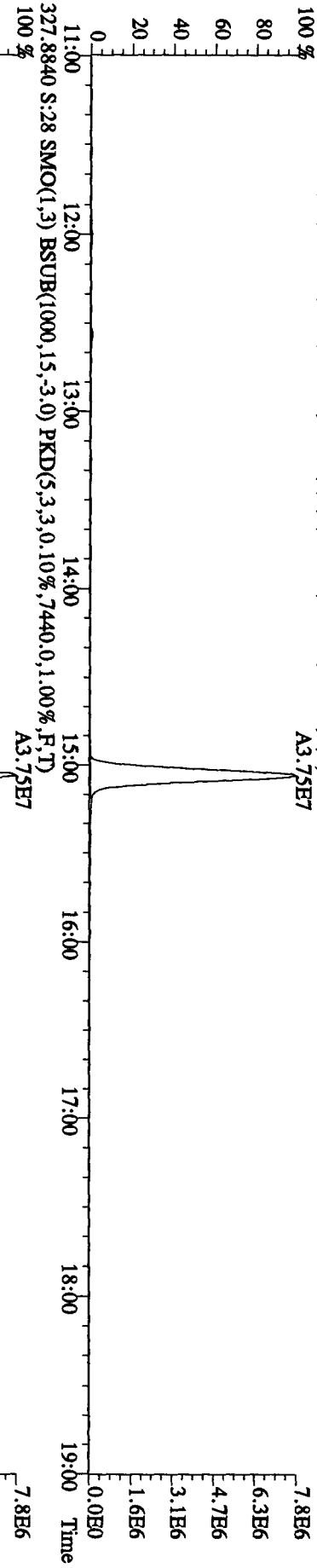
File:04NO105D2 #1-1241 Acq: 5-NOV-2010 00:46:45 GC EI+ Voltage SIR 70SE
 Sample#28 Text:1.84NE-1-AA :G0J260480-7 Exp:DB225RES
 303.9016 S:28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4628,0,1,00%,F,T)
 100 %



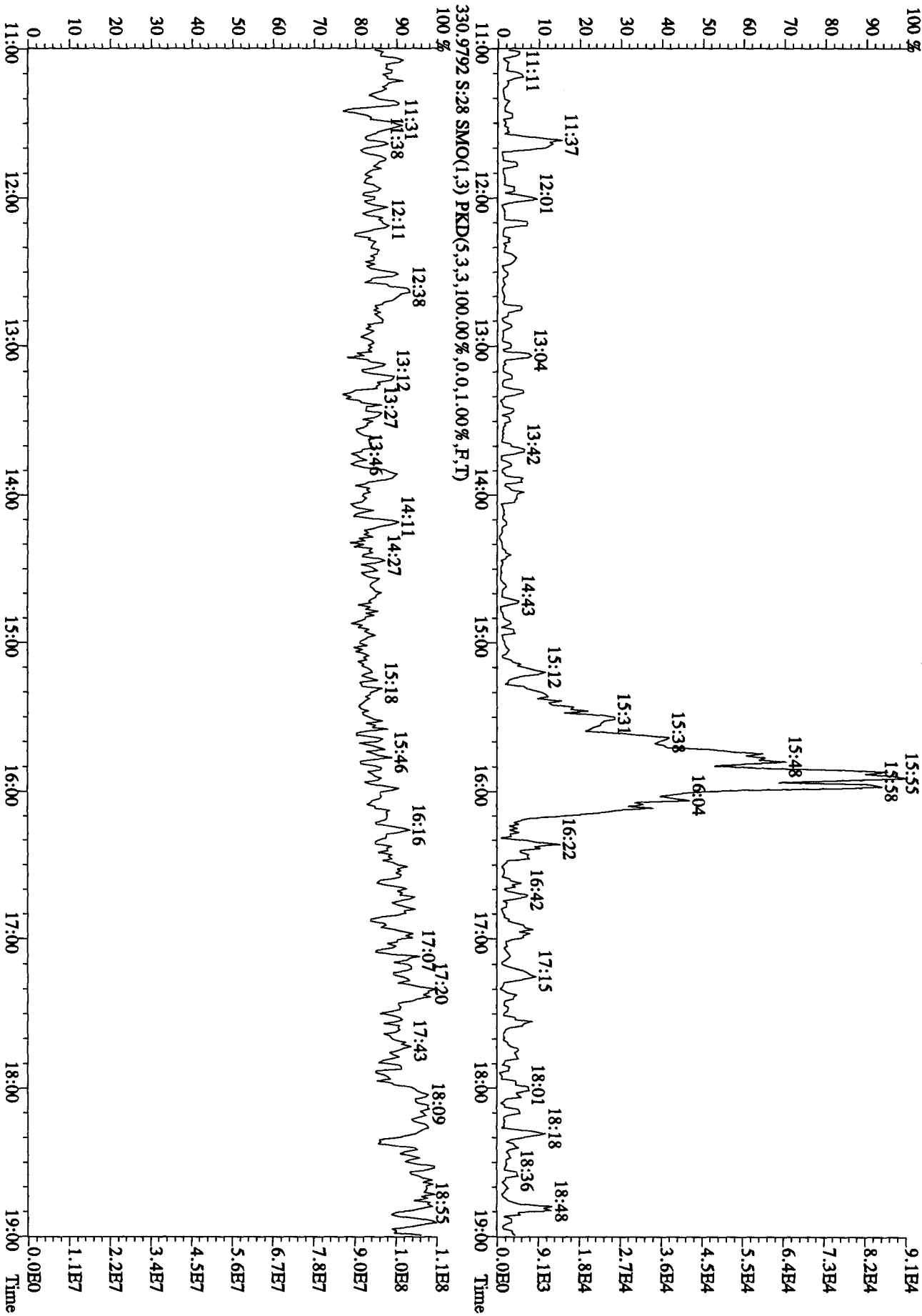
File:04NO105D2 #1-1241 Acq: 5-NOV-2010 00:46:45 GC EI+ Voltage SIR 70SE
 Sample#28 Text:L84NE1-AA :G01260480-7 Exp:DB225RES
 319.8965 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4836,0,1,00%,F,T)



File:04NO105D2 #1-1241 Acq: 5-NOV-2010 00:46:45 GC EI+ Voltage SIR 70SE
 Sample#28 Text:1.84NBE-1-AA :G0J260480-7 Exp:DB225RES
 327.8840 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7440.0,1.00%,F,T)
 100 % A3.75E7



File:04NO105D2 #1-1241 Acq: 5-NOV-2010 00:46:45 GC EI+ Voltage SIR 70SE
 Sample#28 Text:1.84NE-1-AA :G0J260480-7 Exp:DB225RES
 375.8364 S:28 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2148,0,1.00%,F,T)
 100%



Run text: L84NP-1-AA Sample text: L84NP-1-AA :G0J260480-9
 Run #13 Filename: 02NO10A1D5 S: 34 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 14:09:32 Processed: 3-NOV-10 16:16:29
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

05-5-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	35726600	0.86 y	17:55	-	41.79	-	-	n
13C-2,3,7,8-TCDF	56808200	0.85 y	17:25	1.57	4039.59	0.43	101.0	n
2,3,7,8-TCDF	2589430	0.86 y	17:26	0.88	207.78 <i>087ms</i>	3.76	-	n
Total TCDF	21584176	0.73 y	14:58	0.88	1731.97 1729.95	3.76	-	n
13C-2,3,7,8-TCDD	30123800	0.80 y	18:07	0.99	3409.12	3.54	85.2	n
2,3,7,8-TCDD	*	* n	NotFnd	0.94	-	1.20	-	n
Total TCDD	945899	3.08 n	14:39	0.94	133.60 70.41	1.20	-	n
37Cl-2,3,7,8-TCDD	15790840	1.00 y	18:08	1.18	1781.44	1.40	111.3	n
13C-1,2,3,7,8-PeCDF	34073500	1.67 y	22:28	1.15	3304.64	0.57	82.6	n
1,2,3,7,8-PeCDF	323251	2.50 n	22:30	1.03	36.87 <i>J,Q u/10/200mm</i>	6.01	-	n
2,3,4,7,8-PeCDF	190442	1.61 y	23:50	0.95	23.61 <i>J 426.30</i>	6.53	-	n
Total F2 PeCDF	3733301	1.47 y	20:55	0.99	443.00 <i>438.22</i>	6.26	-	n
Total F1 PeCDF	368911	0.50 n	14:17	0.99	43.83 <i>24.29</i>	1.59	-	n
13C-1,2,3,7,8-PeCDD	16674850	1.73 y	24:31	0.67	2798.97 <i>462.5+ 400.59 u/10/200mm</i>	0.92	70.0	n
1,2,3,7,8-PeCDD	9776	2.79 n	24:33	0.96	2.44	7.19	-	n
Total PeCDD	170462	4.29 n	20:53	0.96	42.55	7.19 8.54	-	n
13C-1,2,3,7,8,9-HxCDD	28521000	1.27 y	30:50	-	42.43	-	-	n
13C-1,2,3,4,7,8-HxCDF	34453000	0.50 y	29:33	1.15	4208.03	7.86	105.2	n
1,2,3,4,7,8-HxCDF	458853	1.54 n	29:34	1.22	43.70 <i>J,Q</i>	3.37	-	n
1,2,3,6,7,8-HxCDF	286813	1.23 y	29:41	1.41	23.66 <i>J</i>	2.92	-	n
2,3,4,6,7,8-HxCDF	102874	1.03 n	30:18	1.23	9.69 <i>J,Q</i>	3.33	-	n
1,2,3,7,8,9-HxCDF	49606	0.69 n	31:01	1.08	5.31 <i>J,Q</i>	3.79	-	n
Total HxCDF	2198948	1.27 y	28:00	1.24	204.61 186.45	3.32	-	n
13C-1,2,3,6,7,8-HxCDD	23854100	1.31 y	30:32	0.96	3489.05	1.51	87.2	n
1,2,3,4,7,8-HxCDD	22641	0.58 n	30:27	0.89	4.28	4.72	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.05	-	3.99	-	n
1,2,3,7,8,9-HxCDD	17042	0.76 n	30:51	1.00	2.84	4.17	-	n
Total HxCDD	135982	1.84 n	29:49	0.98	23.59	4.27 4.96	-	n
13C-1,2,3,4,6,7,8-HpCDF	24834930	0.42 y	32:27	0.98	3538.53	17.98	88.5	n
1,2,3,4,6,7,8-HpCDF	552791	1.21 n	32:27	1.33	66.87 <i>J,Q</i>	6.48	-	n
1,2,3,4,7,8,9-HpCDF	136125	0.60 n	33:40	1.12	19.59 <i>J,Q</i>	7.71	-	n
Total HpCDF	1003783	1.21 n	32:27	1.23	127.85	7.04	-	n
13C-1,2,3,4,6,7,8-HpCDD	18170260	1.06 y	33:20	0.82	3091.10	5.10	77.3	n
1,2,3,4,6,7,8-HpCDD	43133	1.35 n	33:21	1.05	312.5 9.06 <i>OL</i>	4.90	-	n
Total HpCDD	148709	2.38 n	32:28	1.05	31.23	4.90 9.06	-	n
13C-OCDD	20384160	0.94 y	35:57	0.54	5276.44	3.02	66.0	n
OCDF	672053	0.82 y	36:04	1.58	166.95 <i>J</i>	10.35	-	n
OCDD	48450	0.77 y	35:58	1.13	522.5 16.78 <i>OL</i>	7.69	-	n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:18

Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 865.98 of which 103.89 named and 762.09 unnamed
 Conc: 1731.97 of which 207.78 named and 1524.19 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:58	0.73 y	69.48	365568 500369	58.6 61.8	y	n
	2	15:18	0.71 y	28.49	147947 207110	21.5 25.0	y	n
	3	15:27	0.82 y	24.96	139782 171244	17.4 18.7	y	n
	4	15:45	0.85 y	392.33	2244190 2645170	284.6 279.7	y	n
	5	15:58	0.80 y	159.00	877936 1103520	96.6 105.7	y	n
	6	16:17	0.80 y	151.33	839411 1046510	71.7 71.0	y	n
	7	16:31	0.84 y	155.75	886092 1054850	111.2 112.2	y	n
	8	16:47	0.71 y	143.10	742152 1041180	78.9 98.4	y	n
	9	16:52	0.65 n	131.40	712377 1097500	79.4 108.9	y	n
	10	17:03	0.73 y	166.41	873977 1199830	117.6 127.5	y	n
	11	17:17	0.73 y	37.16	195755 267313	21.6 22.4	y	n
2,3,7,8-TCDF	12	17:26	0.86 y	207.78	1198920 1390510	137.4 128.9	y	n
	13	17:51	0.55 n	23.86	129379 235884	15.5 23.6	y	n
	14	18:07	0.83 y	20.96	118384 142833	9.0 11.4	y	n
	15	18:22	0.75 y	8.67	46215 61808	3.8 6.0	y	n

16	18:29	0.96	n	1.01	6780	0.9	n	n
					7098	1.2	n	n
17	18:36	1.44	n	1.01	10252	2.0	n	n
					7098	1.2	n	n
18	19:18	0.49	n	9.27	50257	5.9	y	n
					101613	12.0	y	n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:25
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 66.80 of which * named and 66.80 unnamed
 Conc: 133.60 of which * named and 133.60 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:39	3.08	1.68	20780 6738	13.5 3.8	y	n
	2	15:00	1.63	1.99	12990 7964	9.4 7.0	y	n
	3	15:15	2.12	3.08	26052 12304	23.1 6.8	y	n
	4	15:25	0.18	0.86	2658 14526	1.8 8.2	n	n
	5	15:39	1.57	0.87	5458 3477	5.3 2.9	y	n
	6	15:45	1.47	1.59	9383 6369	9.1 3.0	y	n
	7	15:53	0.55	16.91	52073 94042	40.7 64.3	y	n
	8	16:11	0.75	44.16	133939 178725	105.4 112.9	y	n
	9	16:19	0.53	3.05	9397 17703	8.7 16.0	y	n
	10	16:27	0.38	2.49	7658 19938	6.5 11.4	y	n
	11	16:46	0.04	0.14	427 10248	1.0 8.6	n	n
	12	16:51	1.69	2.56	17332 10248	18.5 8.6	y	n
	13	17:00	1.25	12.19	60806 48762	44.4 23.6	y	n
	14	17:15	0.70	9.34	27140 39015	19.8 12.3	y	n
	15	17:24	2.43	2.13	20717 8522	15.6 4.8	y	n
	16	17:39	0.86	5.07	16569	10.4	y	n

					19302	10.9	y	n
17	18:01	0.76	y	8.83	27083	21.1	y	n
				3.57	35408	24.1	y	n
18	18:19	1.51	n	3.57	21535	10.2	y	n
				3.65	14277	11.2	y	n
19	18:31	0.99	n	3.65	14420	12.2	y	n
				1.23	14605	8.2	y	n
20	18:42	2.66	n	1.23	13051	8.8	y	n
				2.61	4913	3.0	y	n
21	18:54	1.24	n	2.61	12988	13.3	y	n
				0.48	10450	7.6	y	n
22	19:16	0.08	n	0.48	1477	1.5	n	n
				0.78	18257	15.8	y	n
23	19:53	0.94	n	0.78	2929	2.7	n	n
				3.22	3131	2.2	n	n
24	20:05	0.89	n	3.22	11483	10.0	y	n
				1.12	12890	6.9	y	n
25	20:18	1.37	n	1.12	6116	5.2	y	n
					4462	3.8	y	n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:13
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 221.50 of which 30.24 named and 191.26 unnamed
 Conc: 443.00 of which 60.48 named and 382.52 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:55	1.47 y	36.81	184353 125491	24.2 15.6	y	n
	2	21:08	1.57 y	163.77	841636 536764	83.7 39.5	y	n
	3	21:21	1.71 y	26.00	137952 80867	17.2 8.1	y	n
	4	21:37	2.50 n	11.92	98270 39349	11.3 5.2	y	n
	5	22:00	2.08 n	54.63	375048 180320	33.8 13.7	y	n
	6	22:21	1.18 n	24.02	122891 104088	14.8 8.3	y	n
1,2,3,7,8-PeCDF	7	22:30	2.50 n	36.87	317132 126765	37.9 13.7	y	n
	8	22:47	1.75 y	8.95	47950 27423	5.5 3.7	y	n
	9	23:02	1.74 y	34.42	184143 105529	18.1 7.5	y	n
2,3,4,7,8-PeCDF	10	23:50	1.61 y	23.61	117610 72832	12.7 7.0	y	n
	11	24:08	1.63 y	17.21	89776 55091	6.1 4.5	y	n
	12	24:41	0.69 n	2.29	11739 17012	1.9 1.9	n	n
	13	26:07	2.96 n	2.49	24359 8231	4.5 1.7	y	n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:17
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 21.91 of which * named and 21.91 unnamed
 Conc: 43.83 of which * named and 43.83 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:17	0.50	n 0.43	2207 4454	1.6 2.6	n	n
	2	15:02	1.53	y 1.36	6902 4510	6.9 2.6	y	n
	3	15:13	0.43	n 0.45	2291 5359	2.6 2.7	n	n
	4	15:27	0.42	n 1.41	7197 17017	7.5 7.0	y	n
	5	16:42	0.46	n 1.09	5597 12294	6.4 8.3	y	n
	6	16:53	0.74	n 1.04	5339 7236	3.3 4.9	y	n
	7	16:59	0.95	n 2.97	15176 16036	8.9 8.9	y	n
	8	17:50	0.76	n 1.60	8204 10751	7.0 5.3	y	n
	9	18:14	1.77	y 3.59	19265 10912	17.8 7.4	y	n
	10	18:28	0.10	n 0.24	1245 11897	1.1 7.3	n	n
	11	18:42	0.56	n 0.89	4575 8121	3.4 5.0	y	n
	12	18:58	3.13	n 0.83	8570 2741	9.4 1.2	y	n
	13	19:07	0.28	n 1.75	8948 32317	6.3 17.1	y	n
	14	19:25	0.31	n 0.54	2786 8856	2.3 5.7	n	n
	15	19:33	1.43	y 24.29	120212 84229	75.5 37.4	y	n
	16	19:52	0.50	n 0.92	4715 9524	2.6 6.5	n	n
	17	20:25	0.45	n 0.42	2164 4808	1.8 3.3	n	n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:12
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 21.28 of which 1.22 named and 20.06 unnamed
 Conc: 42.55 of which 2.44 named and 40.11 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:53	4.29 n	2.68	18066 4208	5.3 2.4	y n	n n
	2	21:14	0.33 n	2.96	7210 22141	2.2 13.9	n y	n n
	3	21:19	0.69 n	6.30	15352 22141	4.1 13.9	y y	n n
	4	21:48	2.60 n	2.48	10100 3891	2.8 3.2	n y	n n
	5	22:28	3.07 n	5.74	27689 9011	5.4 5.8	y y	n n
	6	22:51	0.38 n	1.66	4039 10555	1.2 6.3	n y	n n
	7	23:46	1.06 n	2.87	6999 6619	2.0 2.7	n n	n n
	8	24:06	1.43 y	8.54	20121 14106	4.1 4.6	y y	n n
1,2,3,7,8-PeCDD	9	24:33	2.79 n	2.44	10710 3834	2.2 2.5	n n	n n
	10	25:23	1.89 n	3.23	9604 5073	2.5 4.3	n y	n n
	11	25:31	0.92 n	1.79	4357 4733	1.1 2.4	n n	n n
	12	25:37	0.96 n	1.86	4527 4733	1.4 2.4	n n	n n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:16
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 102.30 of which 41.19 named and 61.12 unnamed

Conc: 204.61 of which 82.37 named and 122.24 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N >?	Mod?
	1	28:00	1.27	y	25.00	148646 117445	12.9 17.2	y n y n
	2	28:17	1.22	y	46.87	274207 224583	23.1 40.9	y n y n
	3	28:32	2.51	n	2.39	28459 11345	3.8 2.9	y n n n
	4	28:48	2.55	n	6.33	76704 30072	6.0 7.3	y n y n
	5	29:03	1.17	y	7.28	41763 35730	4.8 10.3	y n y n
	6	29:09	0.98	n	1.06	6272 6408	1.0 2.5	n n n n
1,2,3,4,7,8-HxCDF	7	29:34	1.54	n	43.70	315785 204845	30.8 44.1	y n y n
1,2,3,6,7,8-HxCDF	8	29:41	1.23	y	23.66	158391 128422	16.4 25.5	y n y n
	9	29:49	1.34	y	11.20	68205 50938	6.5 11.1	y n y n
	10	30:03	1.15	y	7.88	44915 38924	4.6 7.3	y n y n
	11	30:14	0.58	n	5.42	31905 55121	4.9 6.9	y n y n
2,3,4,6,7,8-HxCDF	12	30:18	1.03	n	9.69	56948 55121	6.7 6.9	y n y n
	13	30:36	1.31	y	1.70	10272 7863	1.4 2.2	n n n n
1,2,3,7,8,9-HxCDF	14	31:01	0.69	n	5.31	27460 39843	4.2 7.0	y n y n
	15	31:06	0.86	n	5.84	34386 39843	3.7 7.0	y n y n
	16	31:15	0.96	n	1.26	7449 7791	0.9 1.2	n n n n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 11.80 of which 3.56 named and 8.24 unnamed
 Conc: 23.59 of which 7.12 named and 16.47 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:49	1.84	n	4.96	23890	7.4	y n
						12956	2.5	n n
	2	30:00	1.04	n	1.71	5538	3.7	y n
						5330	1.2	n n
	3	30:14	0.32	n	1.08	3501	2.4	n n
						10872	2.3	n n
	4	30:17	0.78	n	2.62	8490	5.8	y n
						10872	2.3	n n
	5	30:22	0.51	n	3.37	10894	6.7	y n
						21517	2.5	n n
1,2,3,4,7,8-HxCDD	6	30:27	0.58	n	4.28	12533	8.6	y n
						21517	2.5	n n
1,2,3,7,8,9-HxCDD	7	30:51	0.76	n	2.84	9434	3.8	y n
						12370	2.8	n n
	8	31:11	0.71	n	1.37	4444	2.0	n n
						6228	1.2	n n
	9	31:25	0.19	n	1.35	4375	3.1	y n
						22563	1.5	n n

Run Text: L84NP-1-AA

Sample text: L84NP-1-AA :G0J260480-9

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 63.93 of which 43.23 named and 20.70 unnamed
 Conc: 127.85 of which 86.46 named and 41.39 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	1.21	n	66.87	328099	27.1	y n
						270976	42.9	y n
	2	32:40	1.25	n	19.24	90013	6.6	y n

					71742	8.2	y	n	
	3	32:47	0.91	y	22.15	80503	6.1	y	n
						88012	10.8	y	n
1,2,3,4,7,8,9-HpCDF	4	33:40	0.60	n	19.59	69397	5.1	y	n
						115065	12.5	y	n

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Run Text: L84NP-1-AA

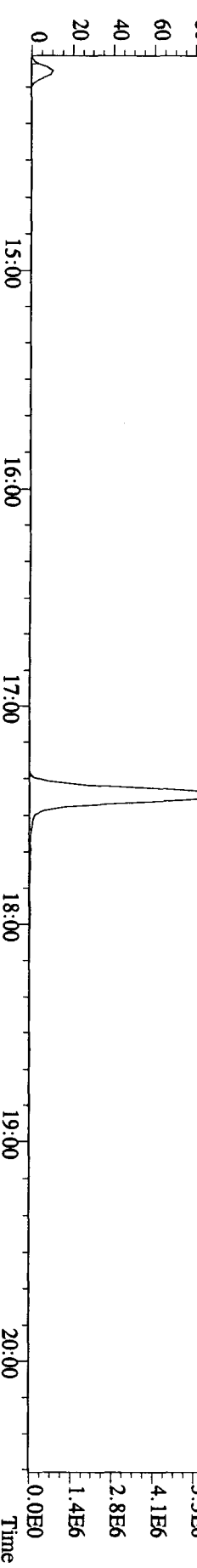
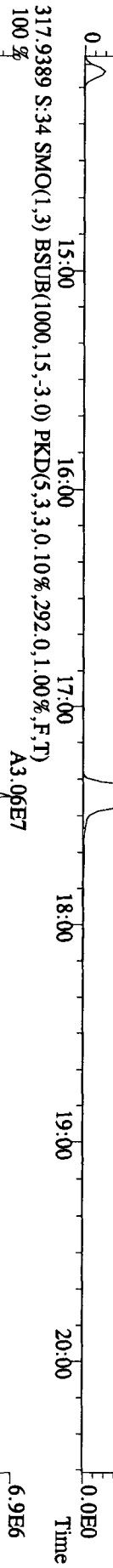
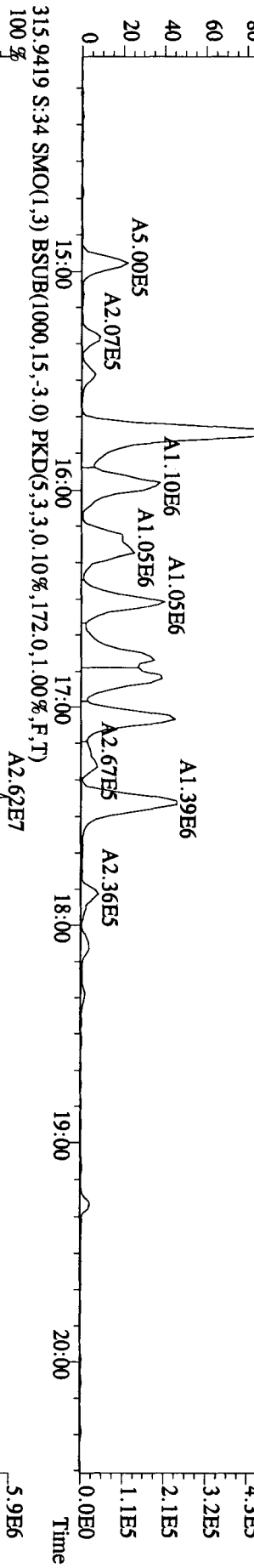
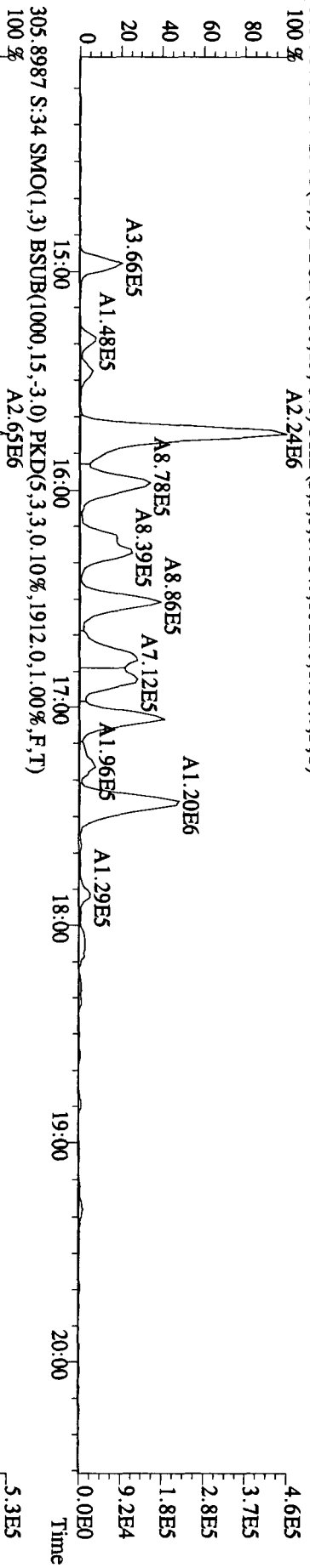
Sample text: L84NP-1-AA :G0J260480-9

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7
 Run: 13 File: 02NO10A1D5 S:34 Acq:3-NOV-10 14:09:32
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5

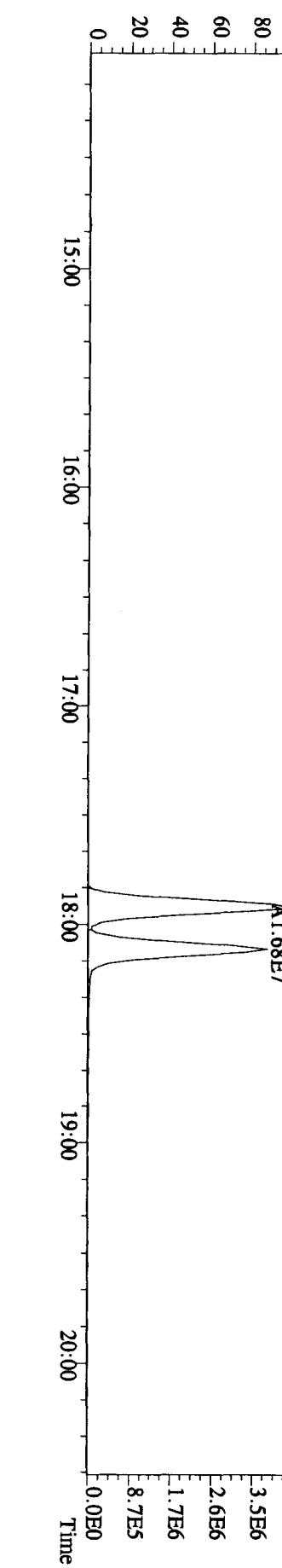
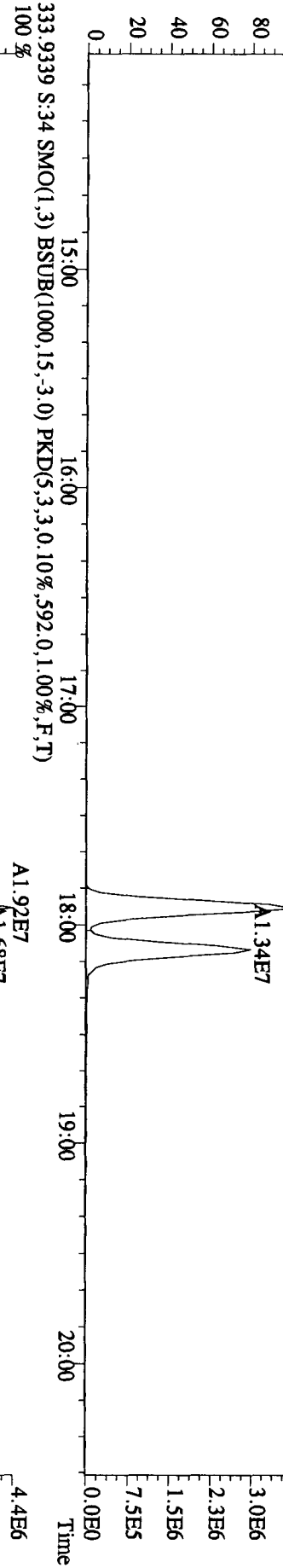
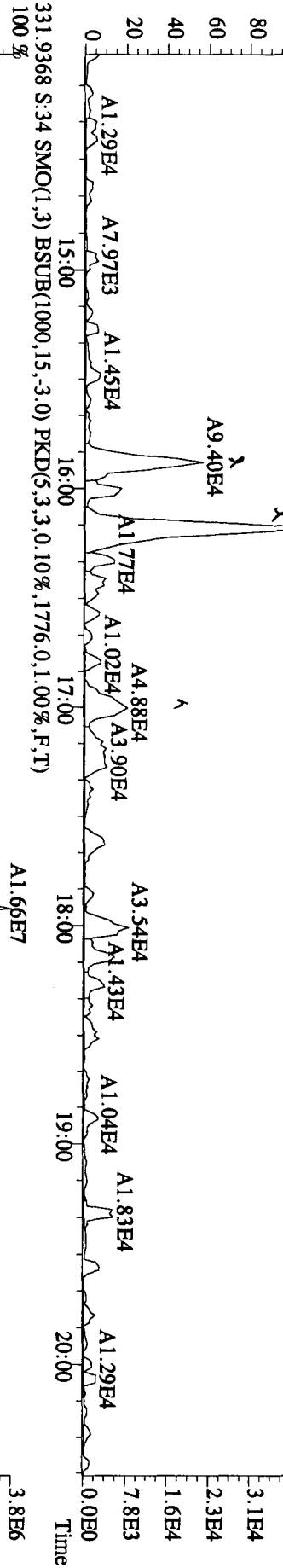
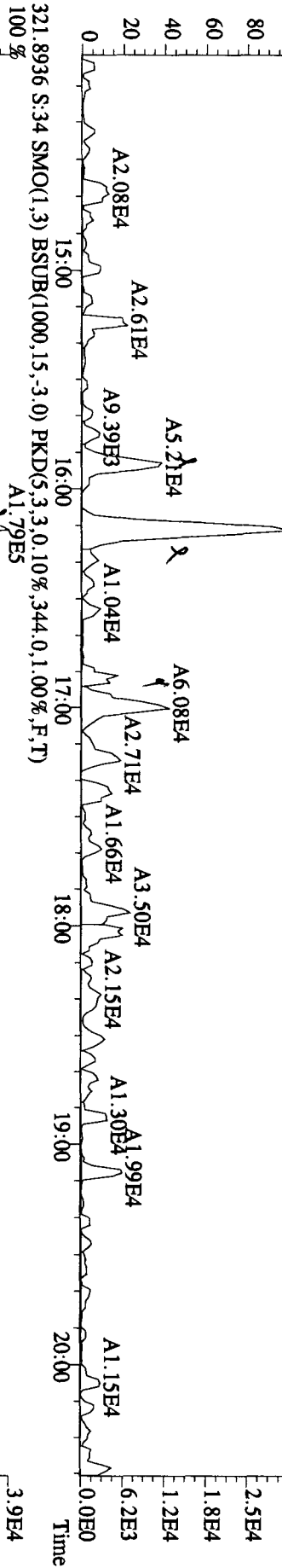
Amount: 15.62 of which 4.53 named and 11.09 unnamed
 Conc: 31.23 of which 9.06 named and 22.17 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?	
	1	32:28	2.38	n	2.01	11133	2.6	n	n
						4685	1.6	n	n
	2	32:43	1.12	y	8.76	22006	6.2	y	n
						19720	5.5	y	n
1,2,3,4,6,7,8-HpCDD	3	33:21	1.35	n	9.06	28553	7.0	y	n
						21144	5.1	y	n
	4	33:40	0.74	n	2.58	6255	2.7	n	n
						8421	2.9	n	n
	5	34:18	0.91	y	4.47	10165	4.8	y	n
						11133	3.3	y	n
	6	34:43	1.23	n	2.61	7506	2.9	n	n
						6088	2.9	n	n
	7	34:48	2.36	n	1.74	9620	2.9	n	n
						4071	1.8	n	n

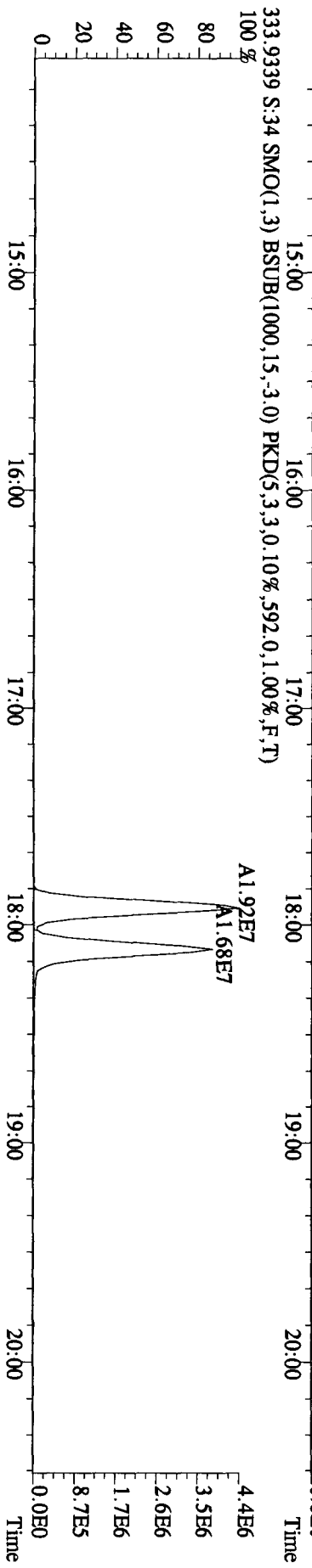
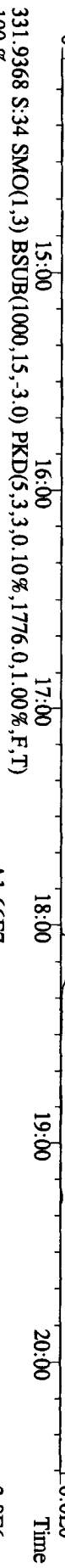
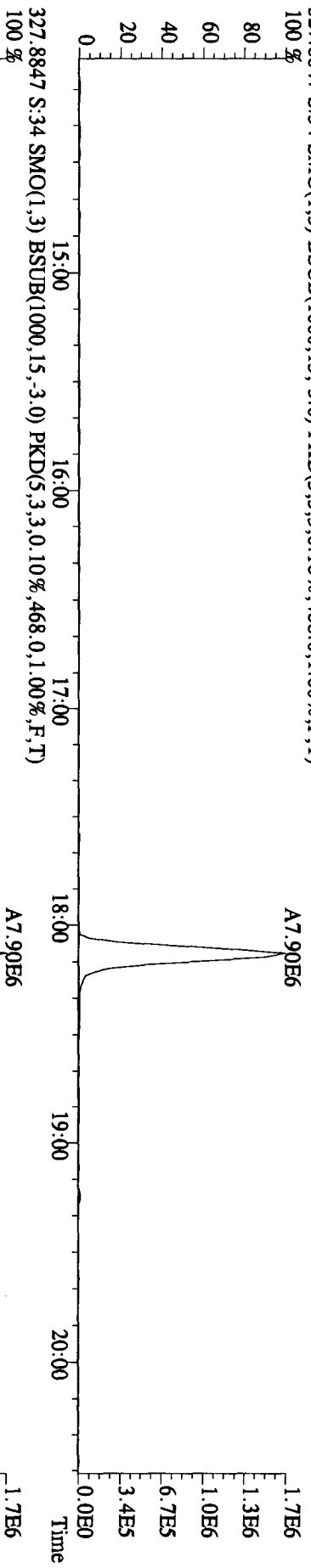
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:1.84NP-1.AA :G0J260480-9 Exp:DIOXINRES
 303.9016 S:3.4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1612.0,1.00%,F,T)
 100%



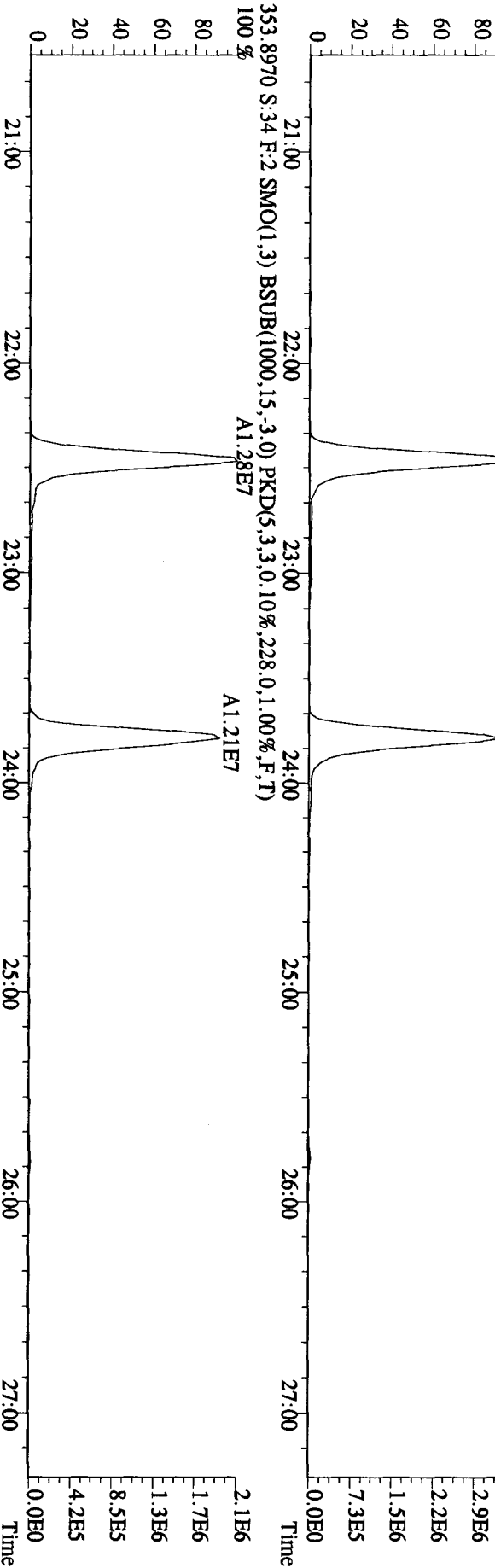
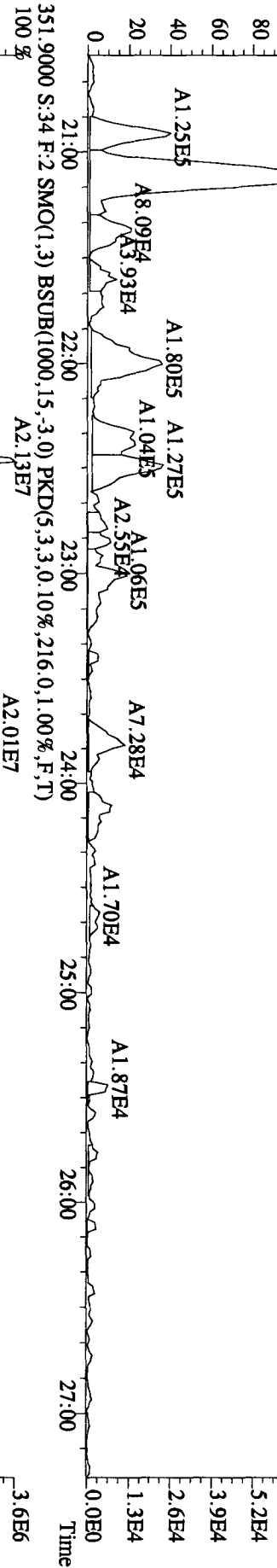
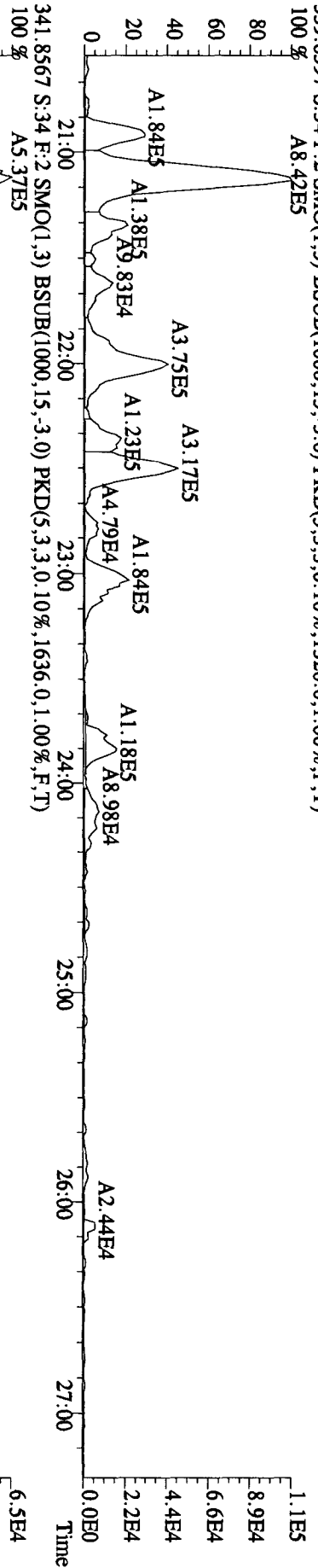
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text: L84NP-1-AA :G0J260480-9 Exp: DIOXINRES
 319,8965 S:3.4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,292.0,1.00%,F,T)
 100 % A1.34E5



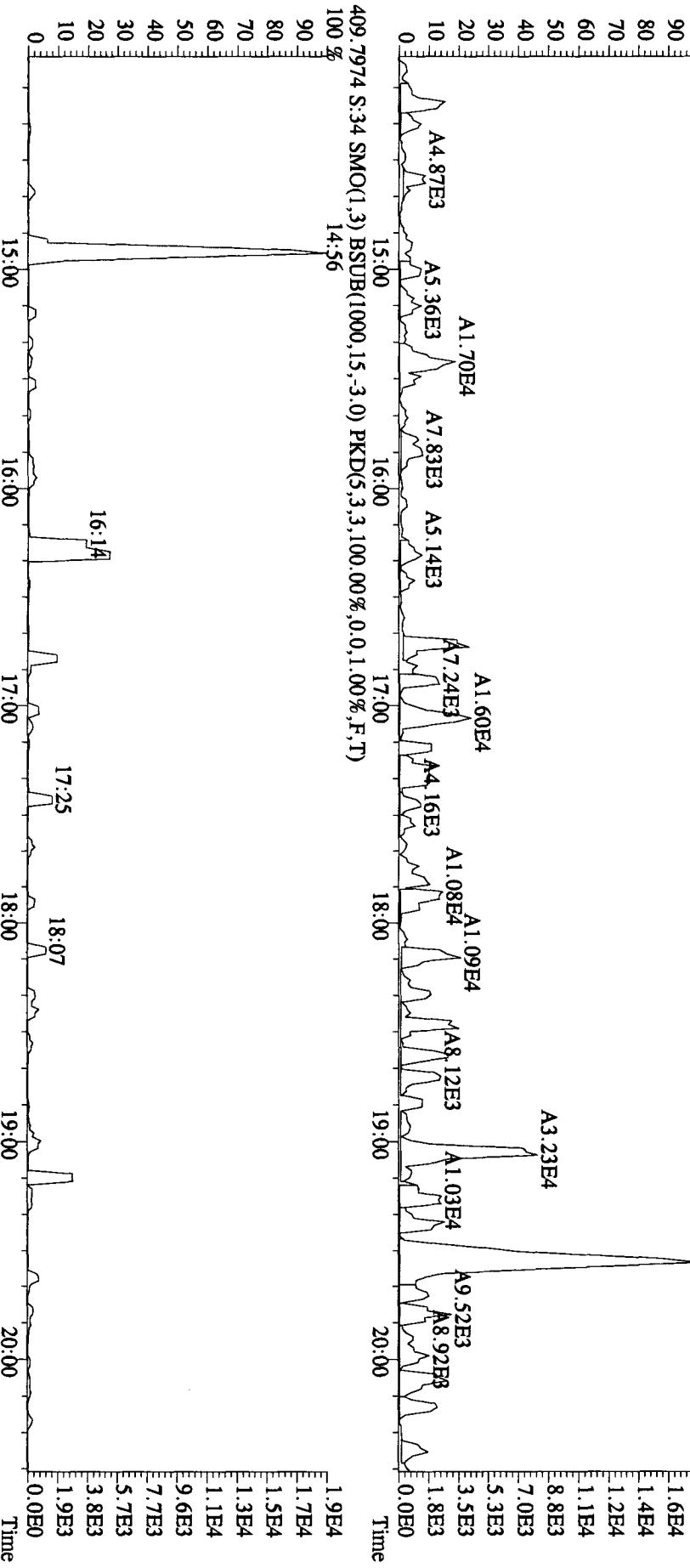
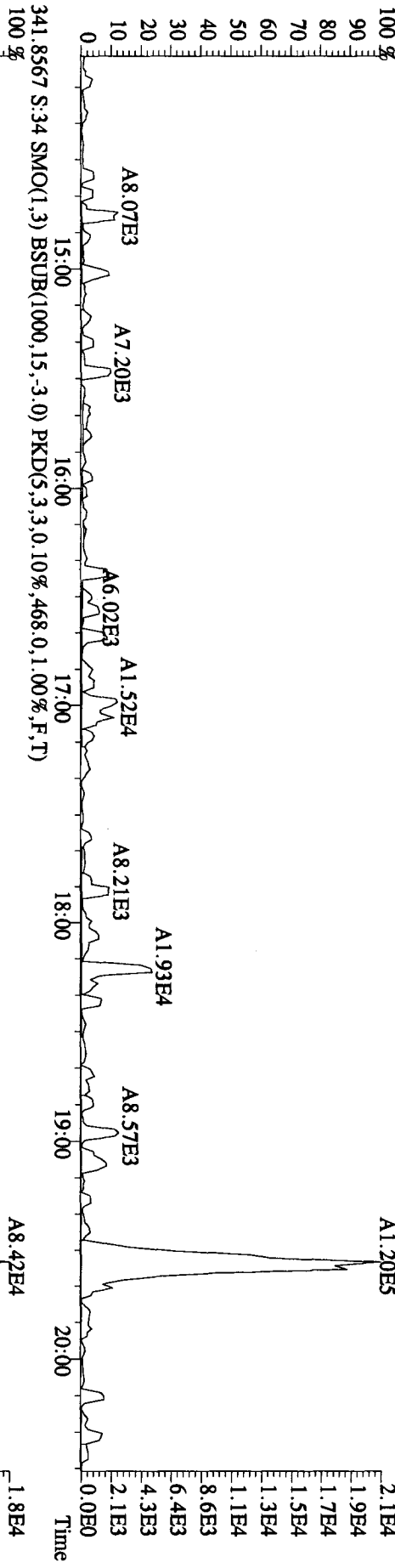
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text: L84NP-1-AA :G01260480-9 Exp: DIOXINRES
 327.8847 S:34 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,468,0.1,00%,F,T)



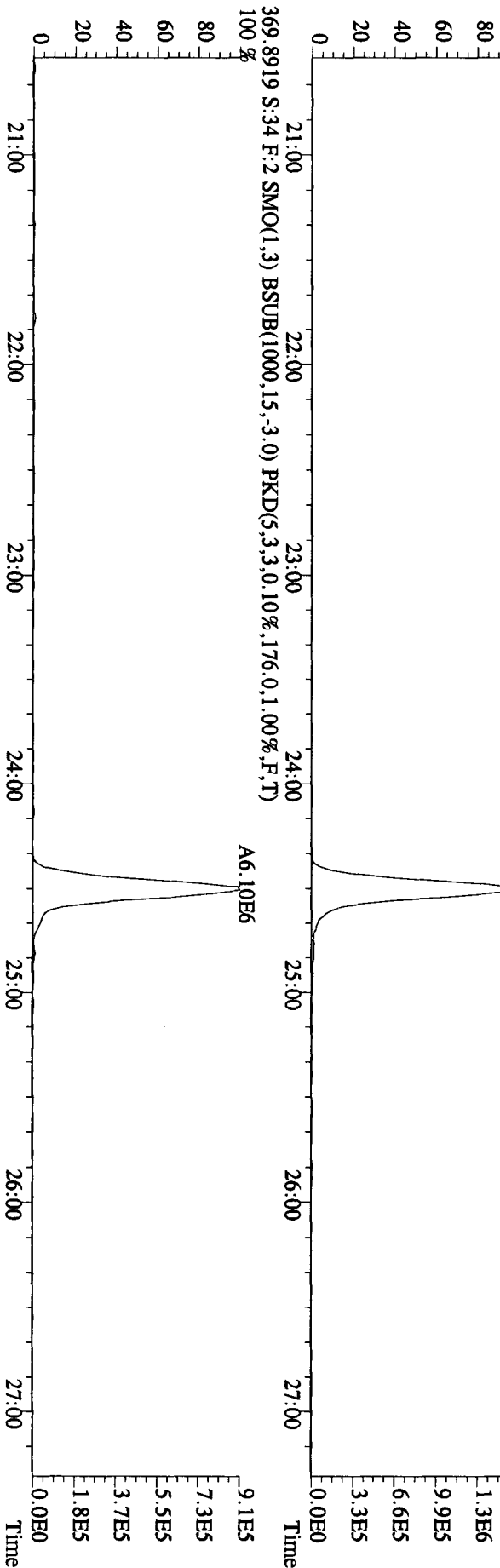
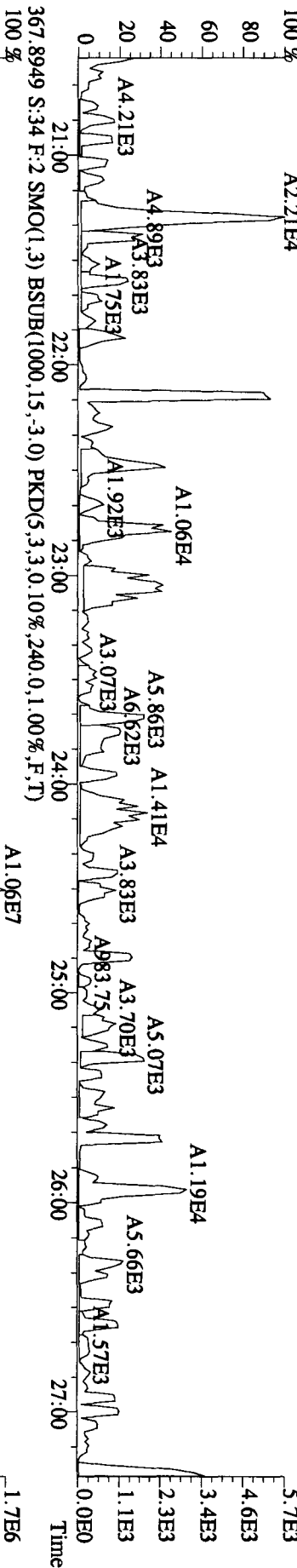
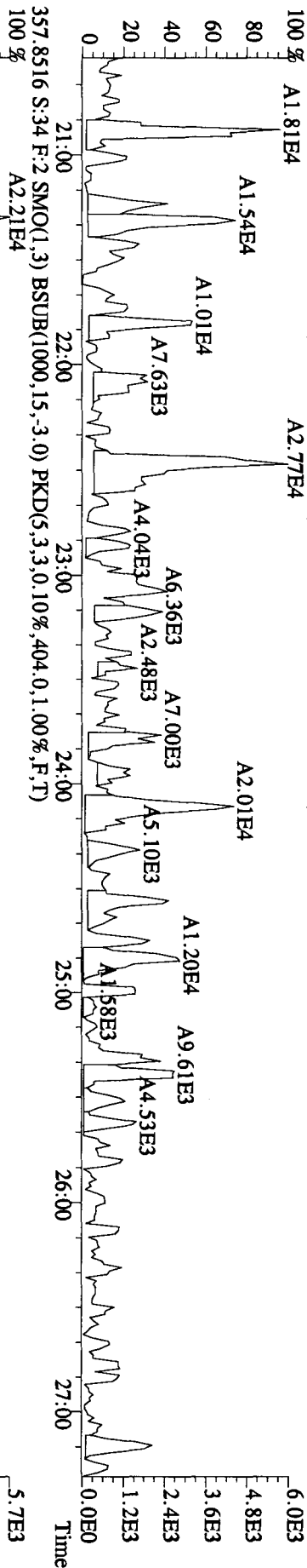
File:02NO10A1D5 #1.422 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G01260480-9 Exp:DIOXINRES
 339.8597 S:3.4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320,0,1.00%,F,T)



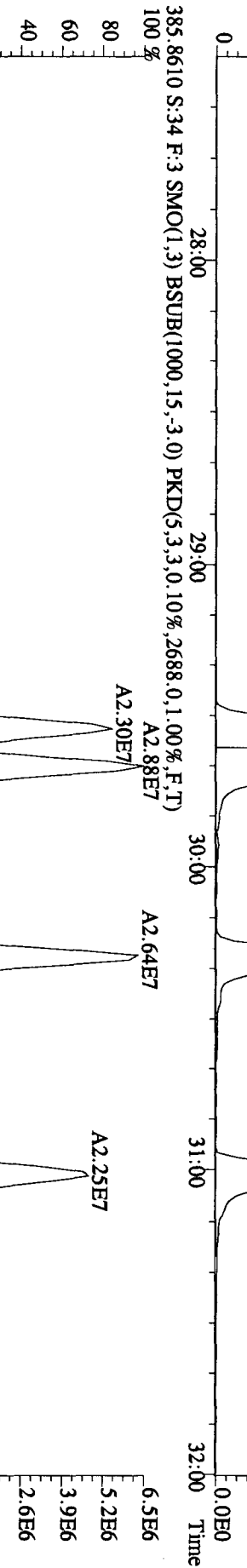
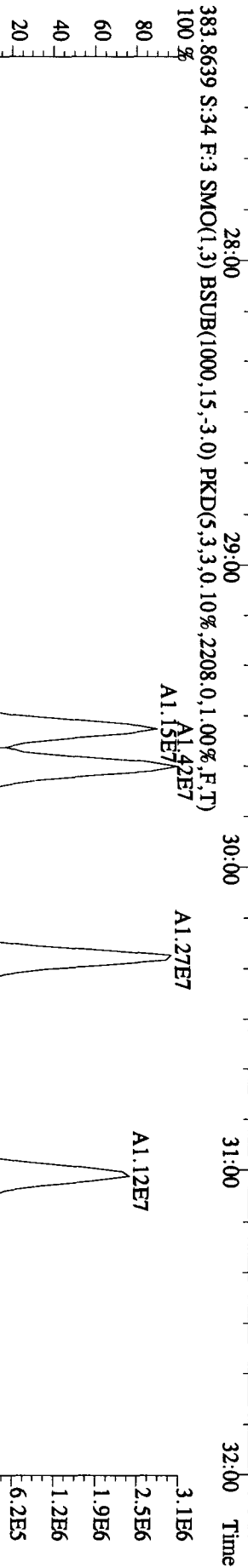
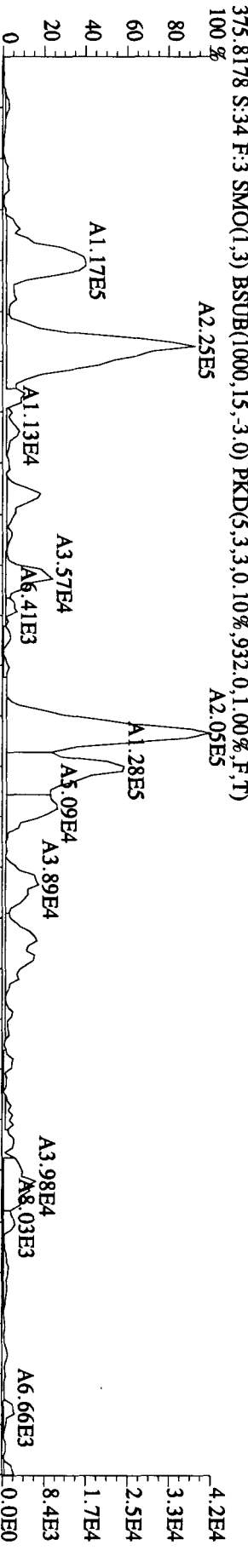
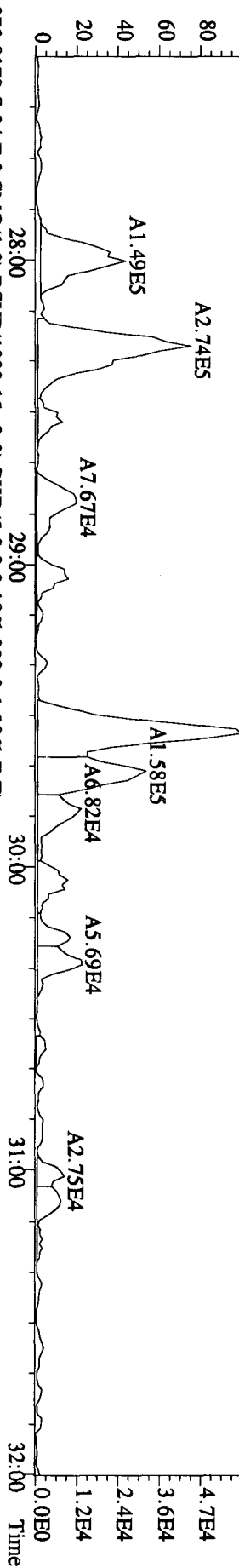
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES
 339:8597 S:34 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,284.0,1.00%,F,T)



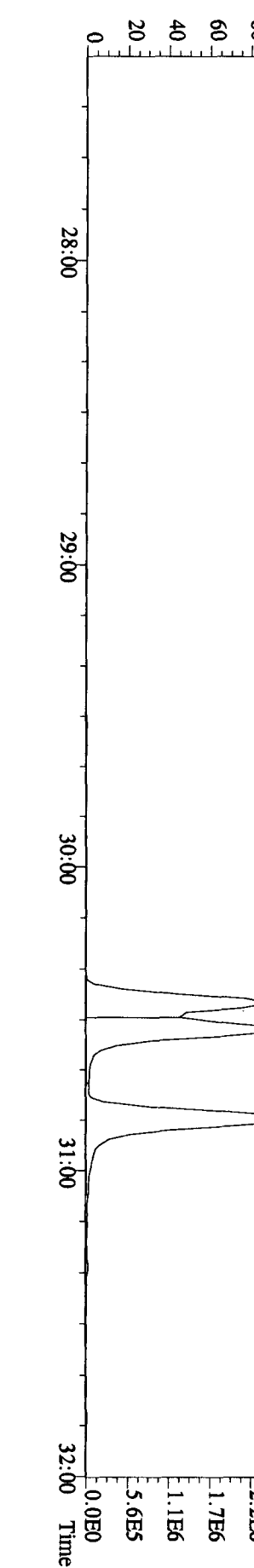
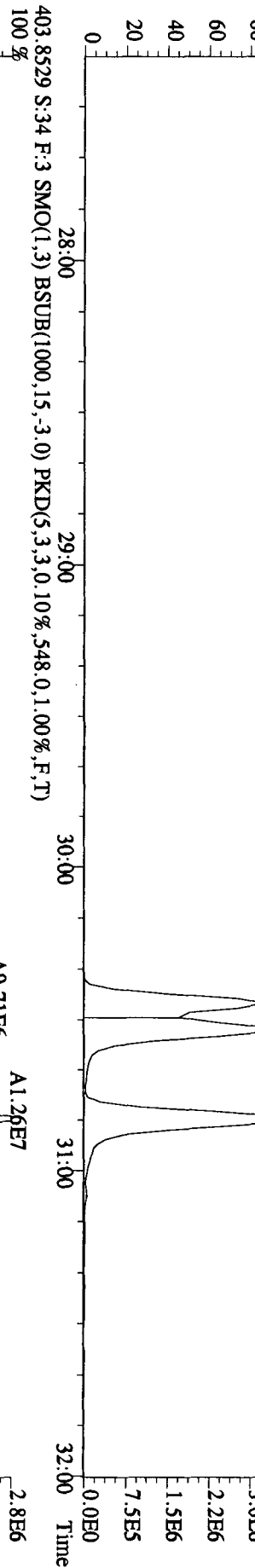
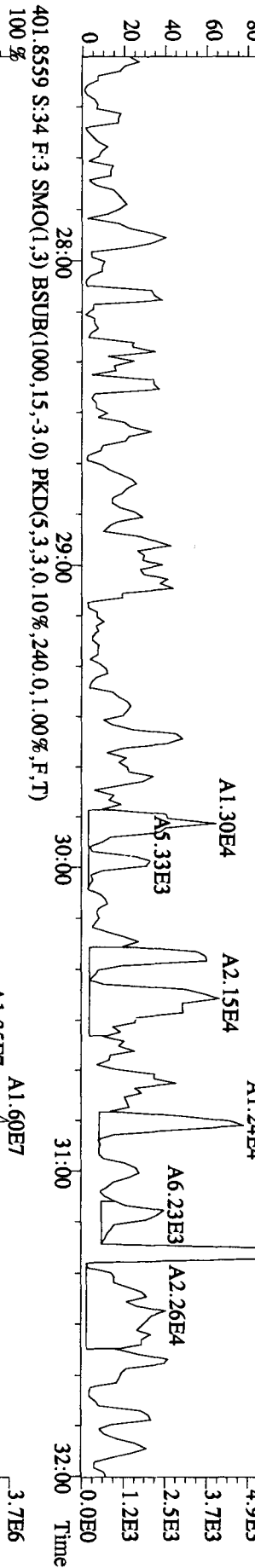
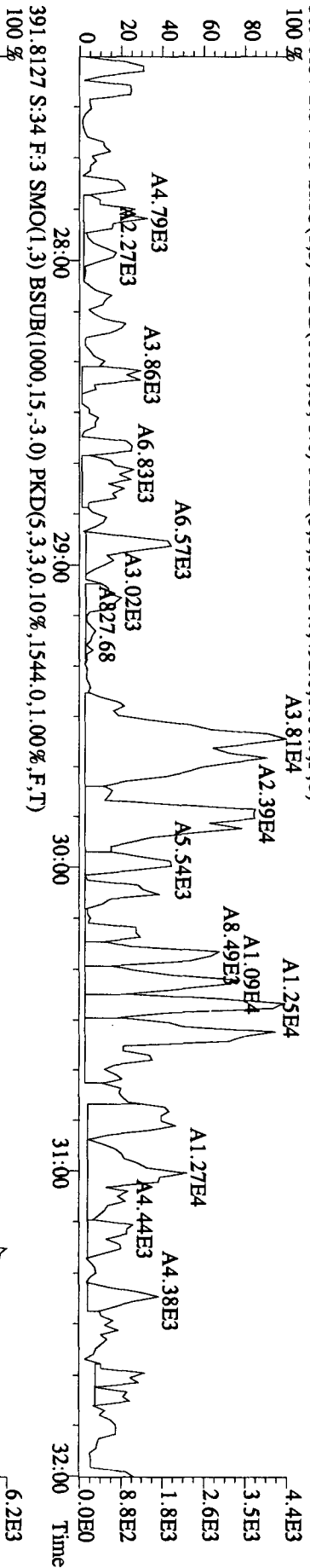
File:02NO10A1ID5 #1-422 Acq: 3-NOV-2010 14:09:32 GC EI + Voltage SIR 70SE
Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES
355.8546 S:34 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1064,0,1,00%,F,T)
100% A1.81E4 A2.77E4



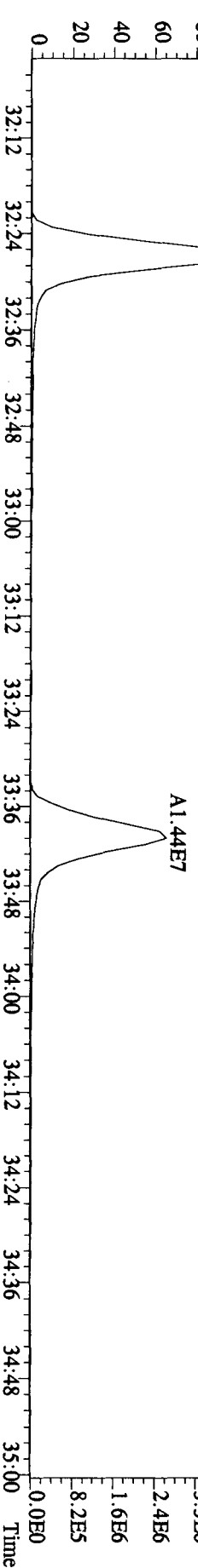
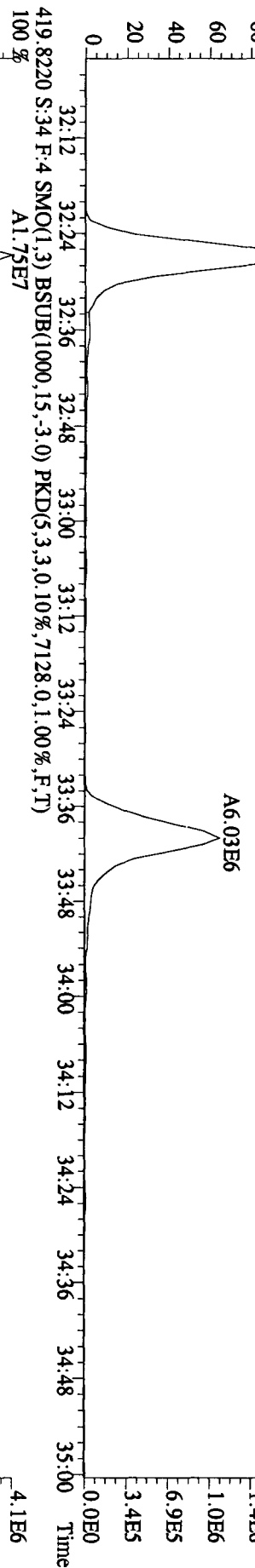
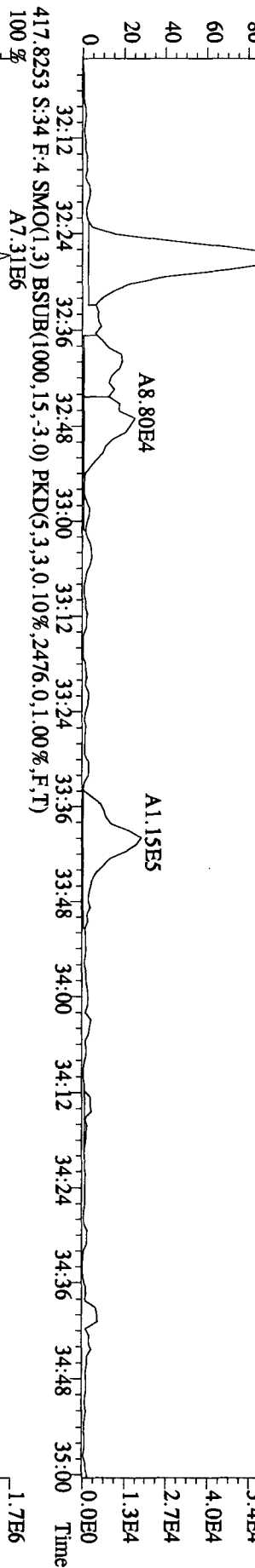
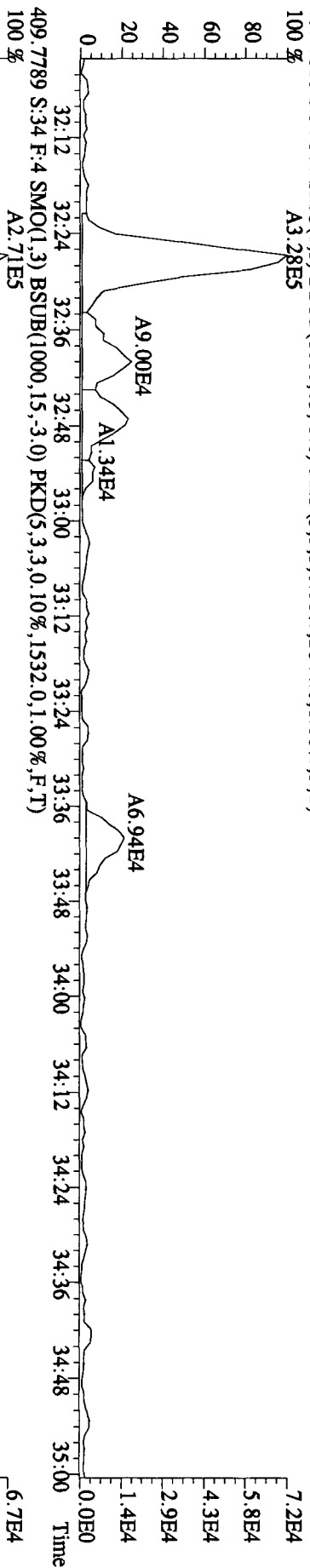
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text: L84NP-1-AA :G01260480-9 Exp: DIOXINRES
 373.8208 S:3.4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1904,0,1,00%,F,T) A3.16E5



File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES
 389.8157 S:3.4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,492.0,1.00%,F,T)
 100 %



File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES
 407.7818 S:34 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2644,0,1,00%,F,T)
 100 %

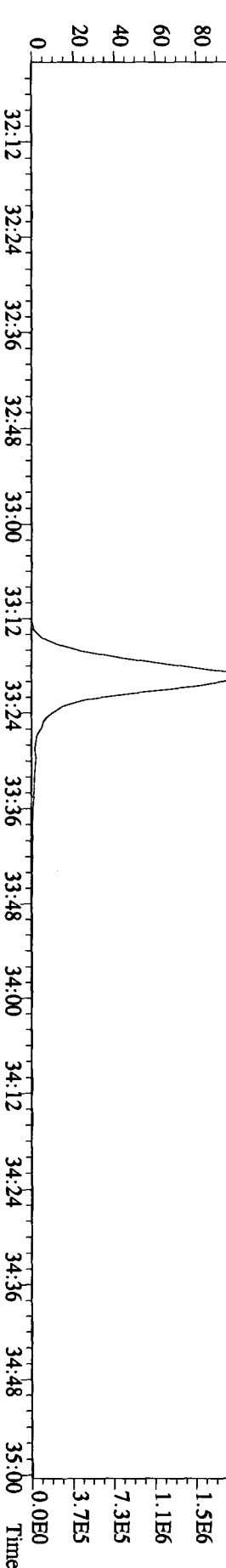
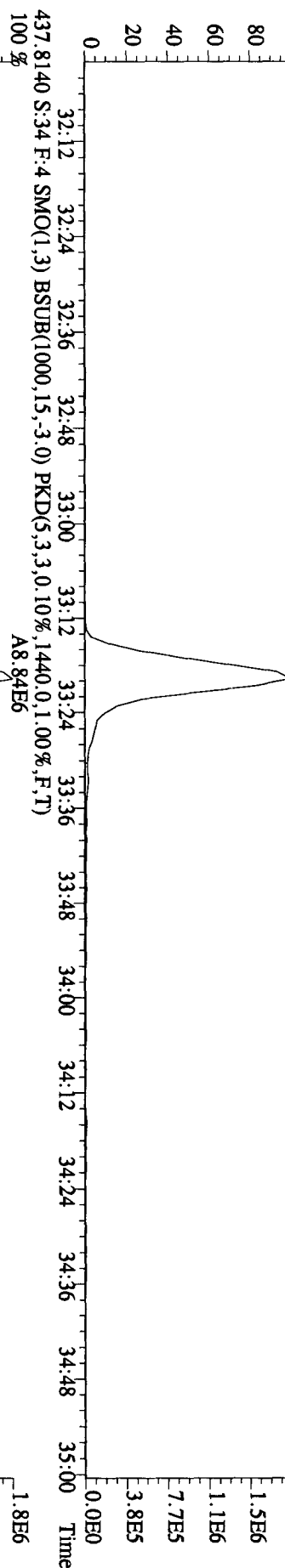
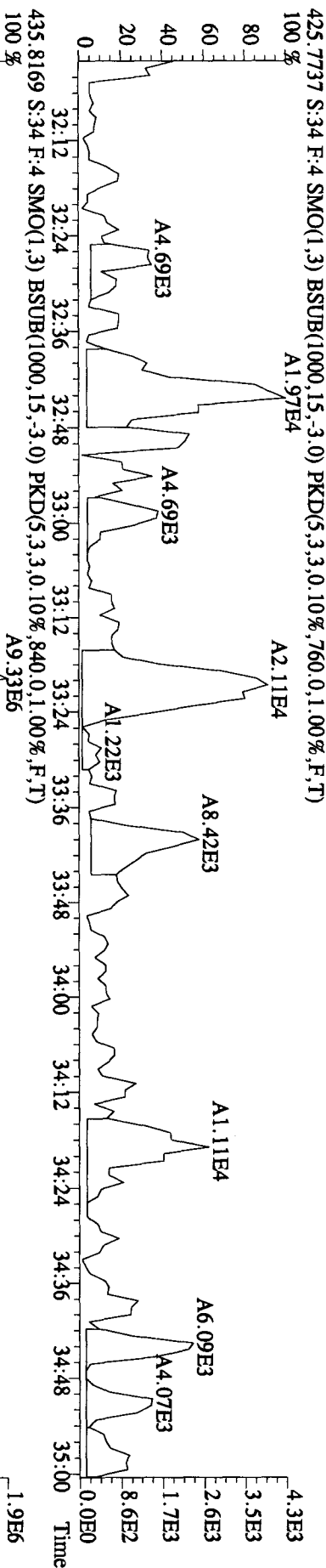
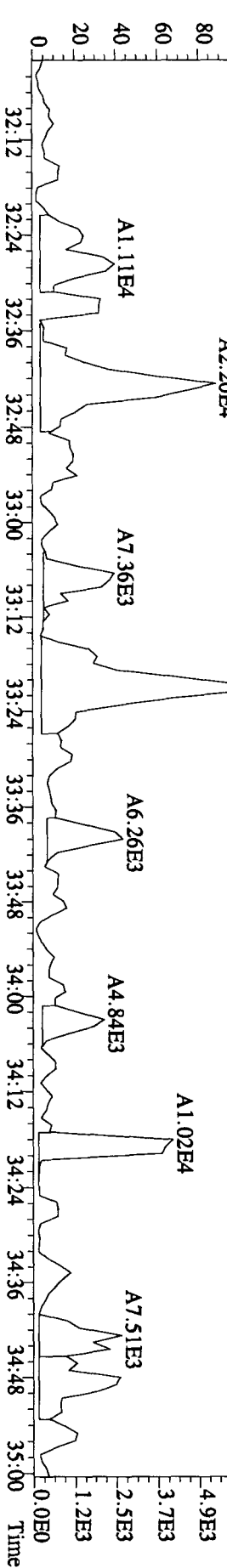


File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE

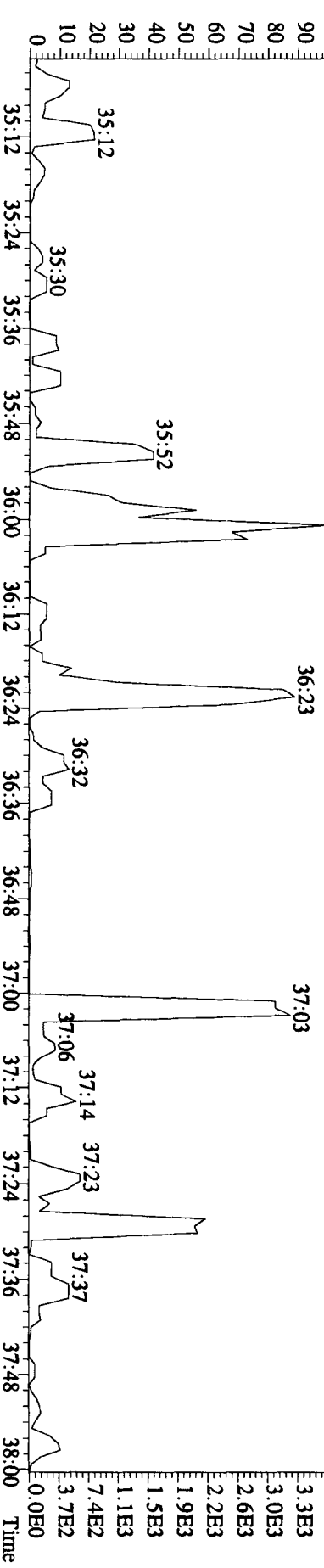
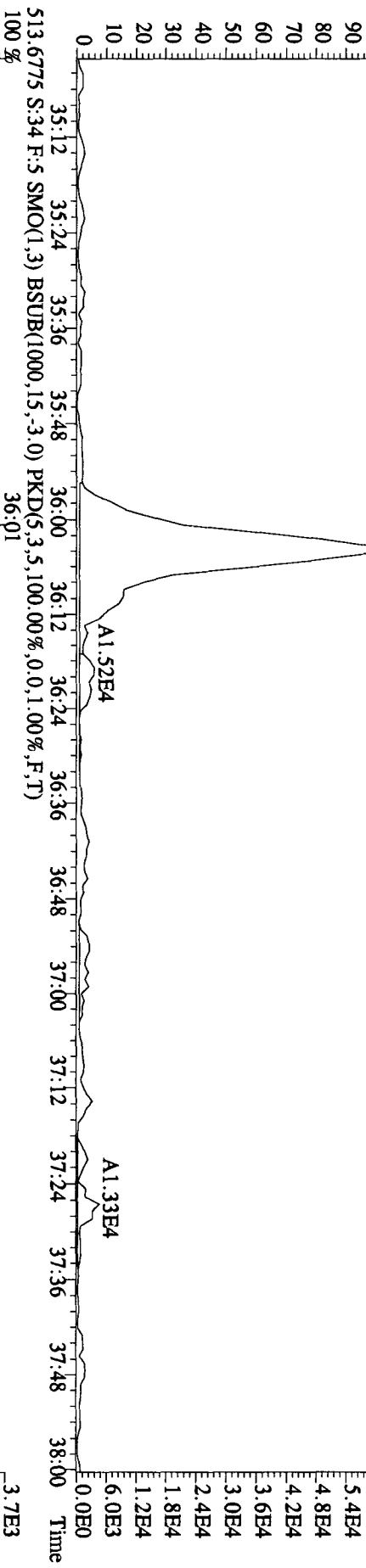
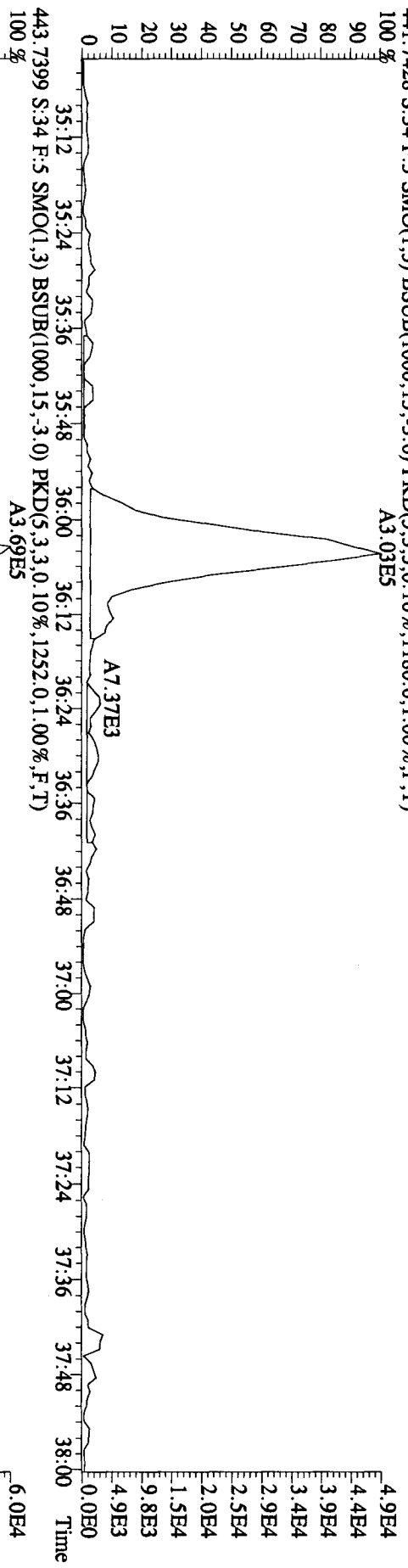
Exp: DIOXINRES

Sample#34 Text:L84NP-1-AA :G0J260480-9

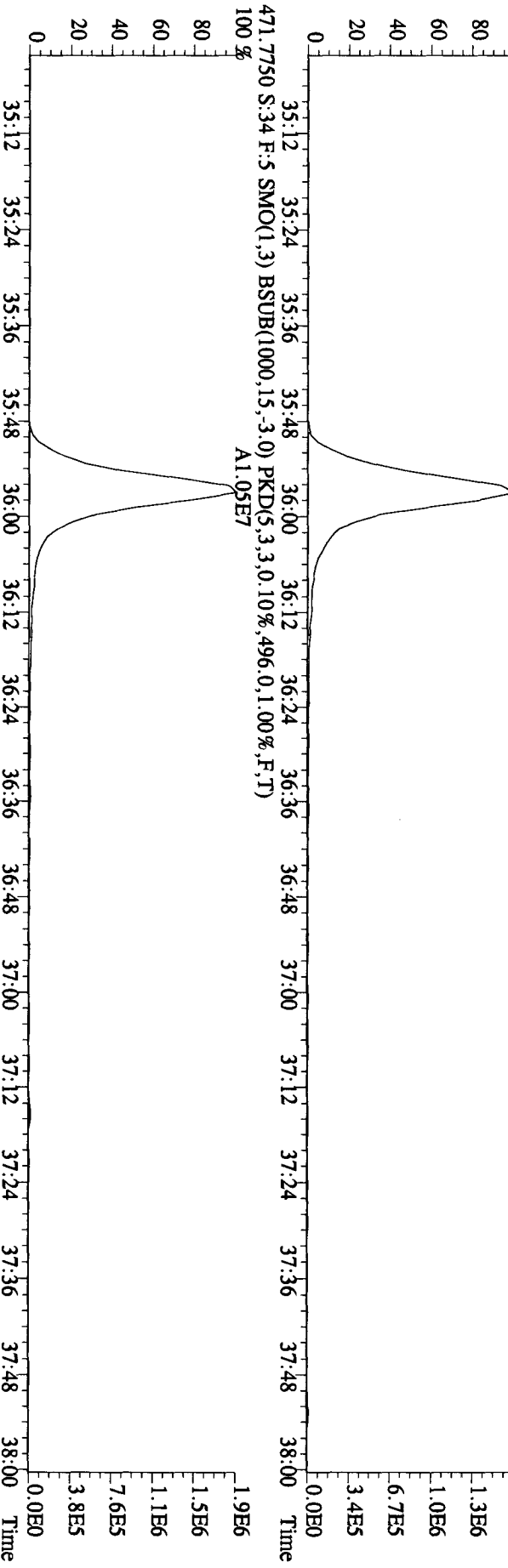
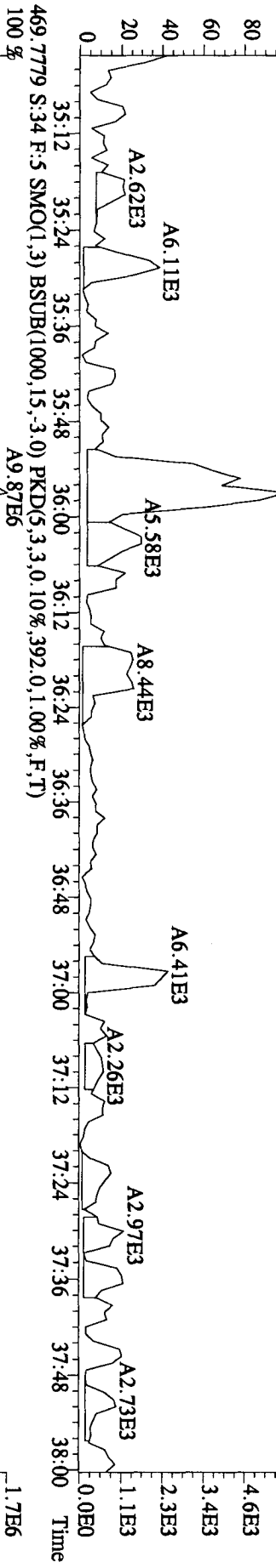
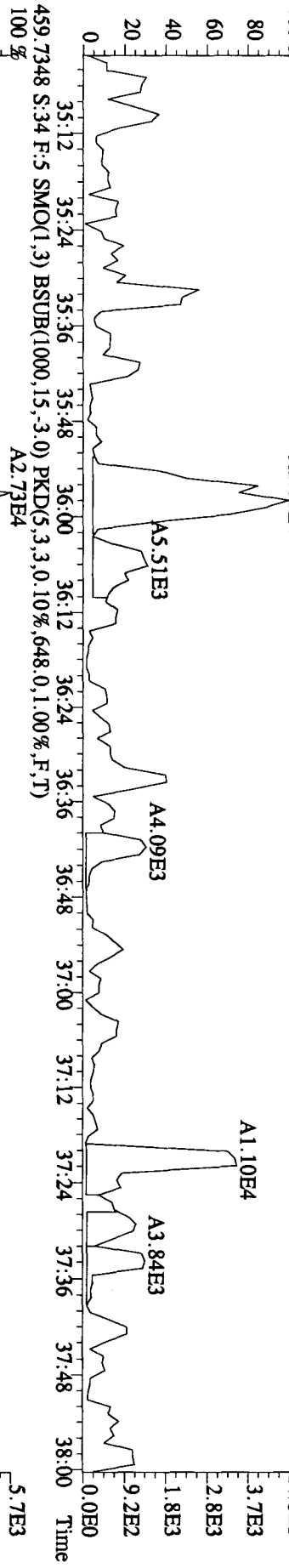
423.7766 S:3.4 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,840,0,1,00%,F,T)



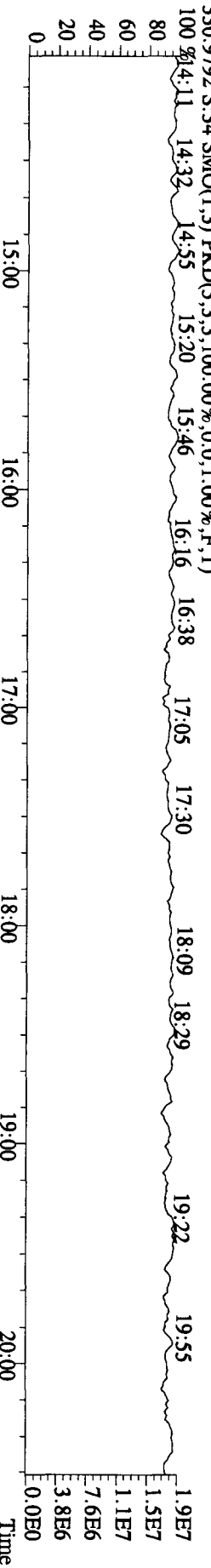
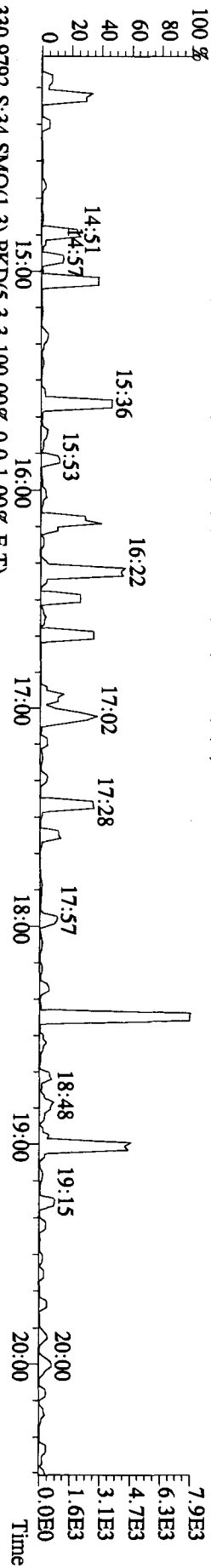
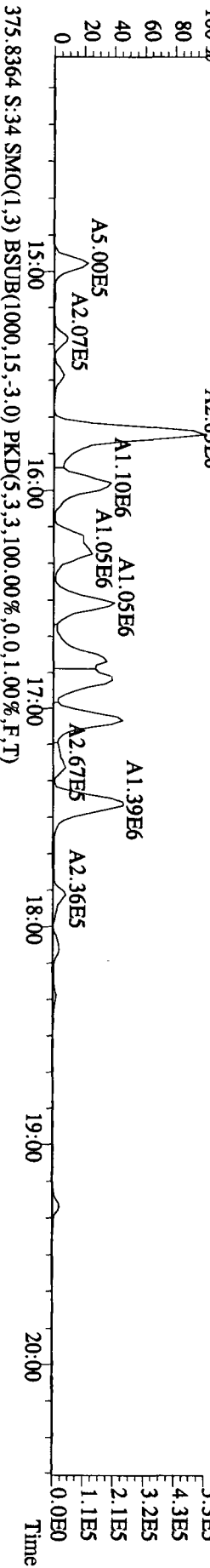
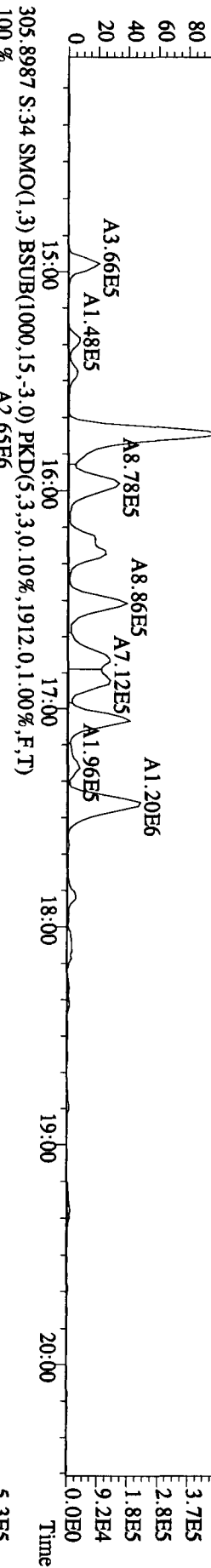
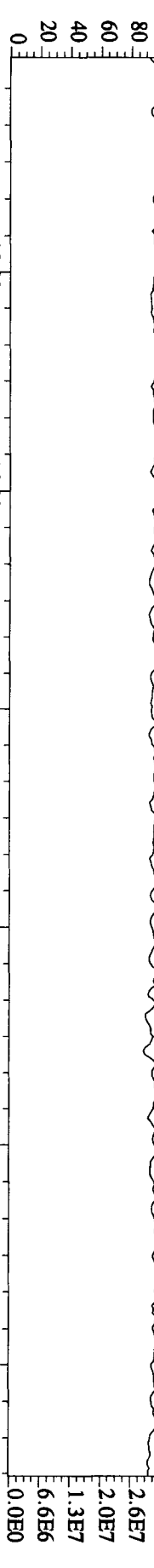
File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text: L84NP-1-AA :G0J260480-9 Exp: DIOXINRES
 441.7428 S:3.4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,1180,0,1,00%,F,T)
 100% A3.03E5

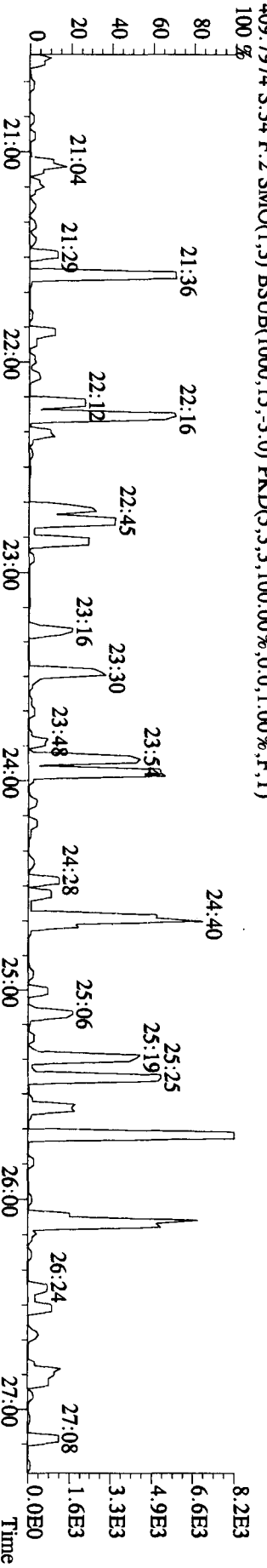
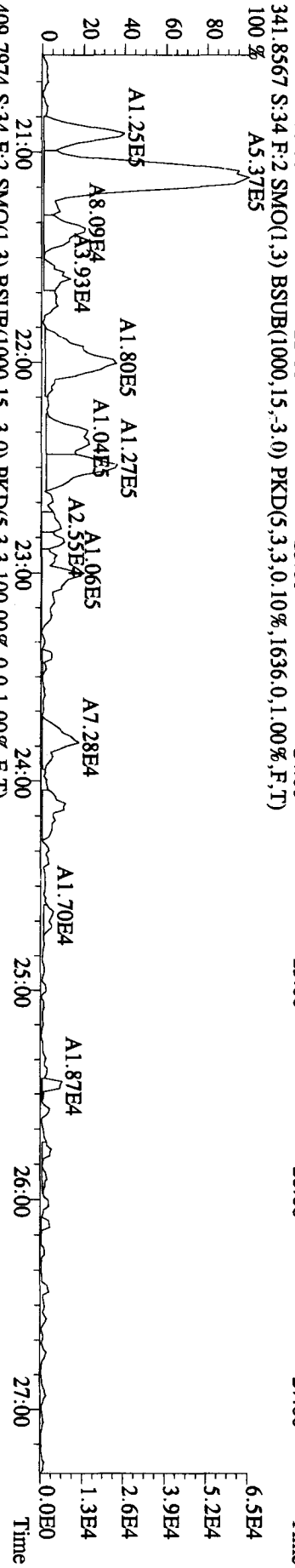
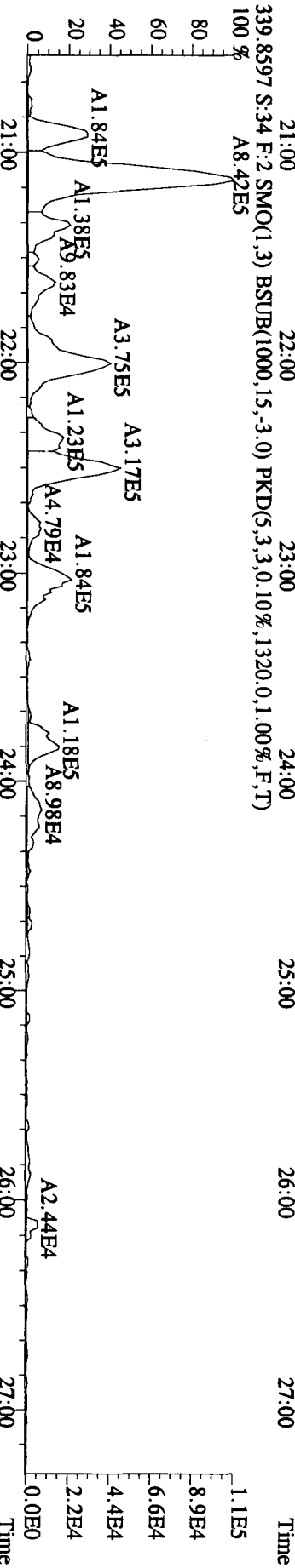
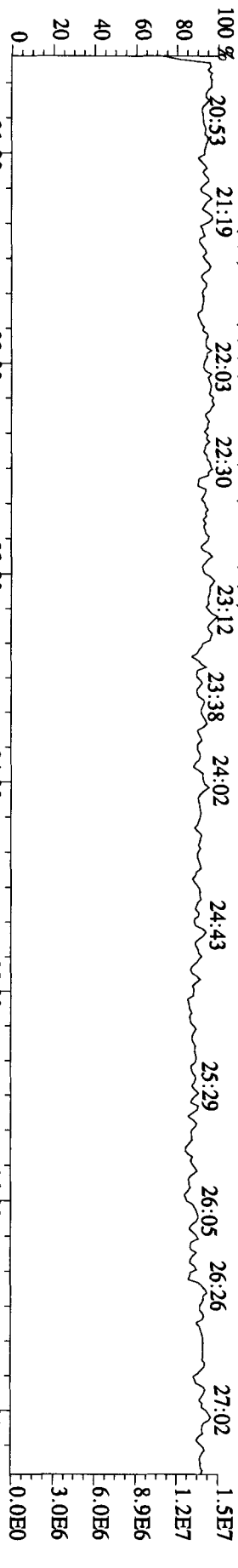


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES
 457.7377 S:34 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,648,0,1,00%,F,T)
 100%

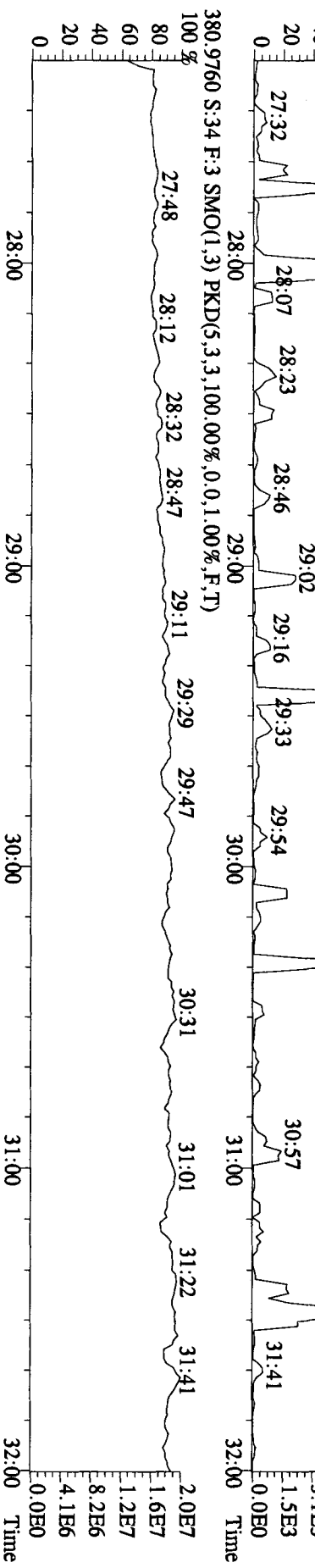
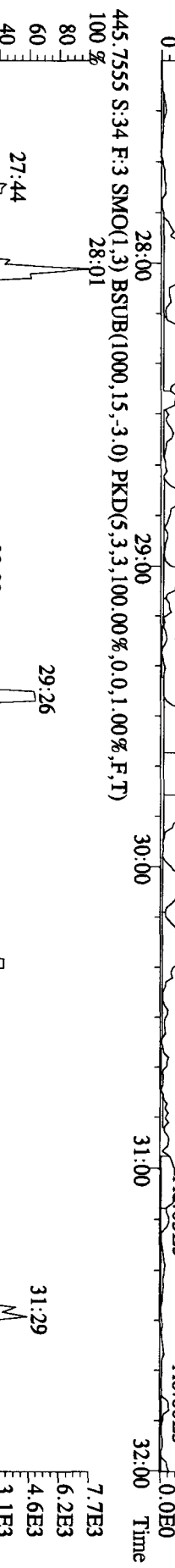
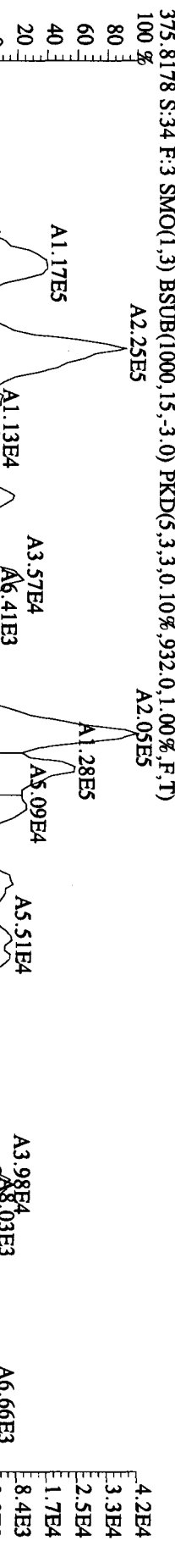
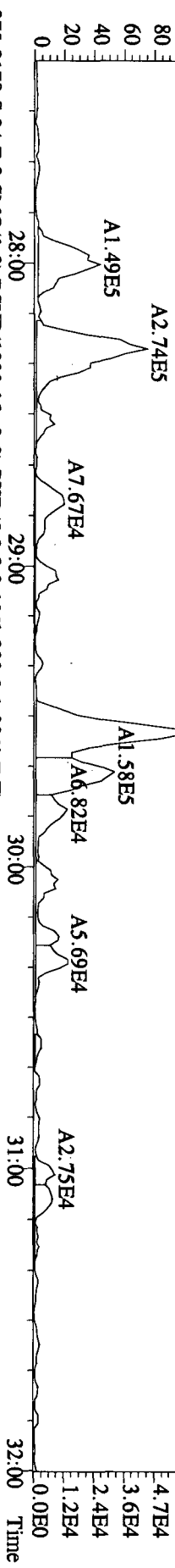
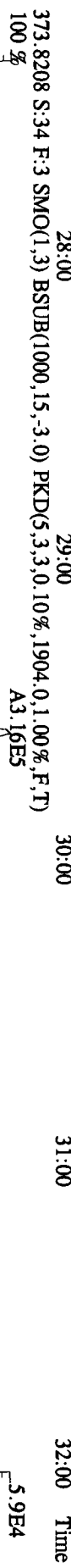
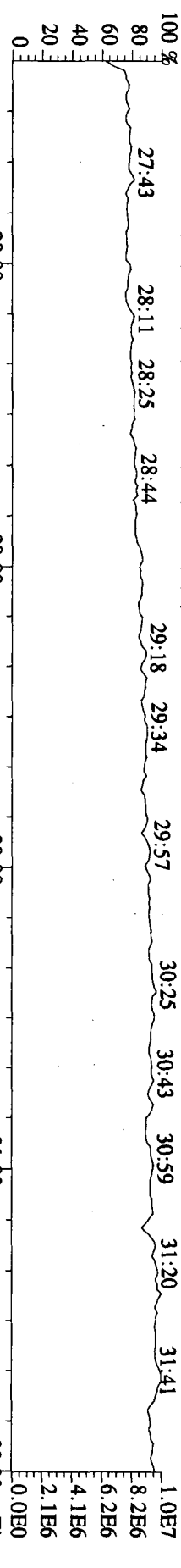


292.9825 S:34 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
 100 %14:09 14:36 14:59 15:20 15:59 16:19 16:47 17:22 17:48 18:12 18:45 19:27 19:54 20:15

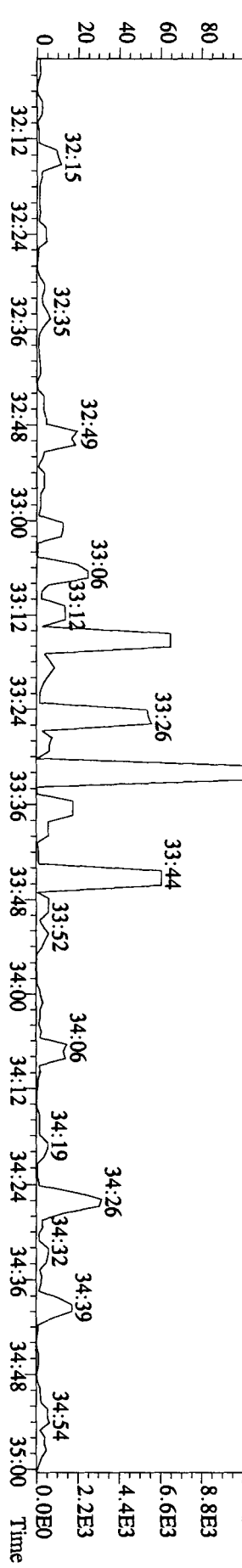
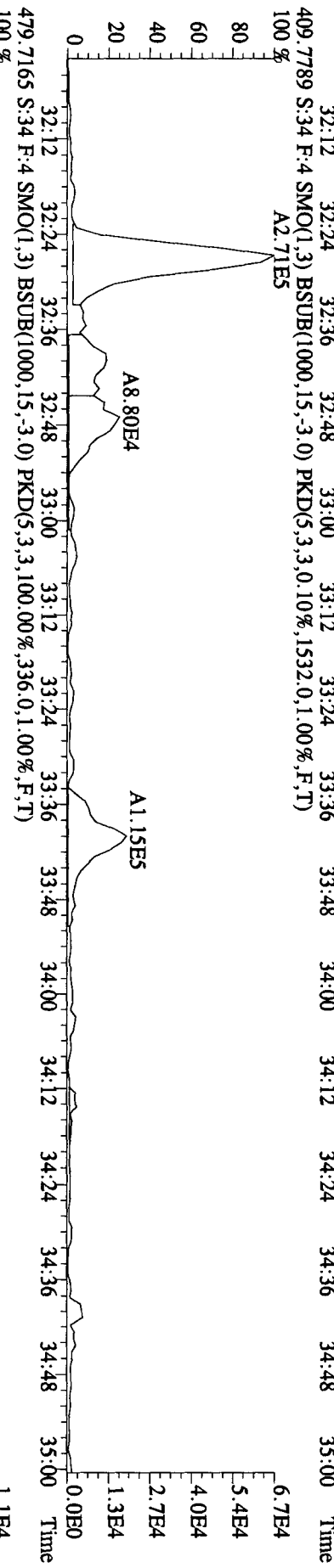
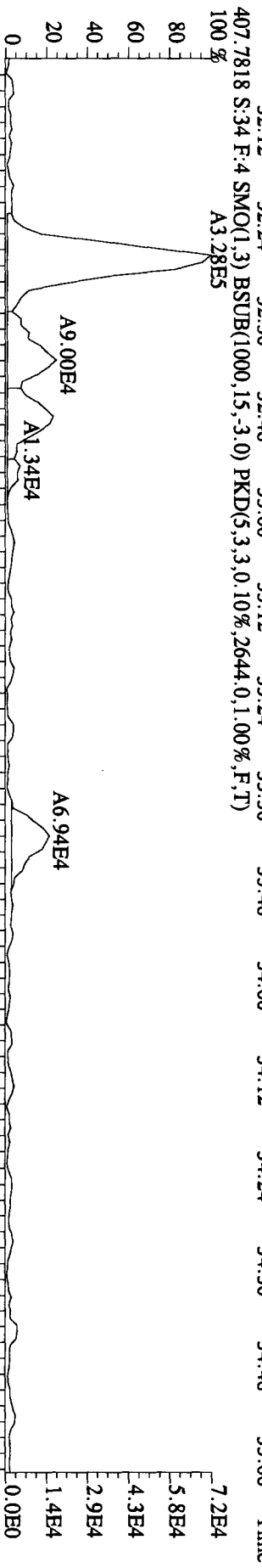
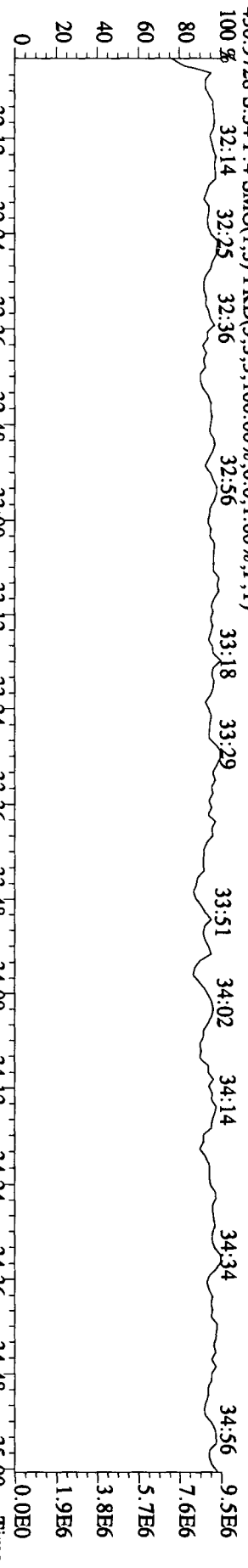




File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE
 Sample#34 Text: L84NP-1-AA :G01260480-9 Exp: DIOXINRES
 392.9760 S:3.4 F:3 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



File:02N010A1D5 #1-203 Acq: 3-NOV-2010 14:09:32 GC EI+ Volage SIR 70SE
 Sample#34 Text:L84NP-1-AA :G0J260480-9 Exp:DIOXINRES

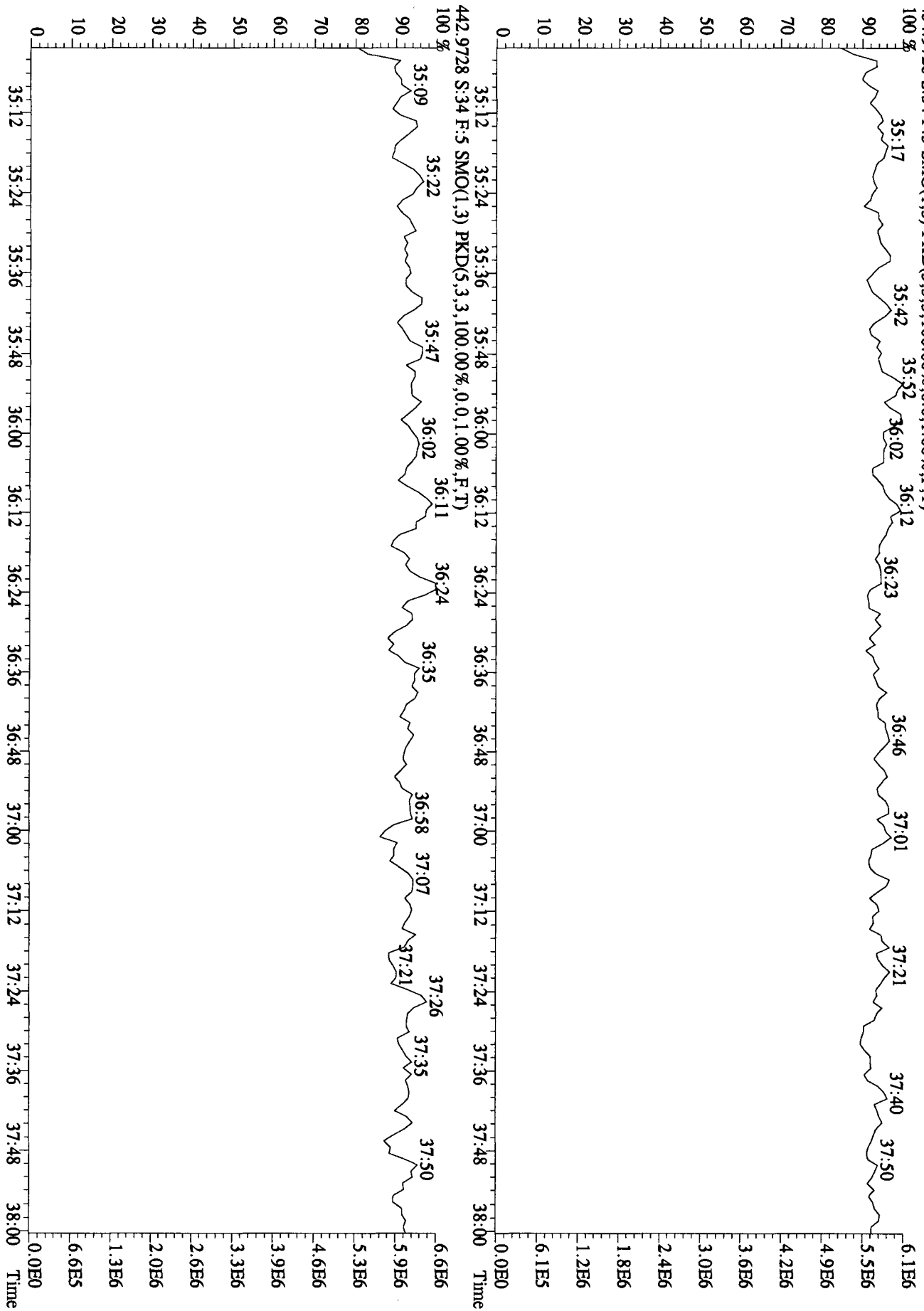


File: 02NO10A1ID5 #1-196 Acq: 3-NOV-2010 14:09:32 GC EI+ Voltage SIR 70SE

Sample#34 Text: L84NP-1-AA : G0J260480-9 Exp: DIOXINRES

454.9728 S:34 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

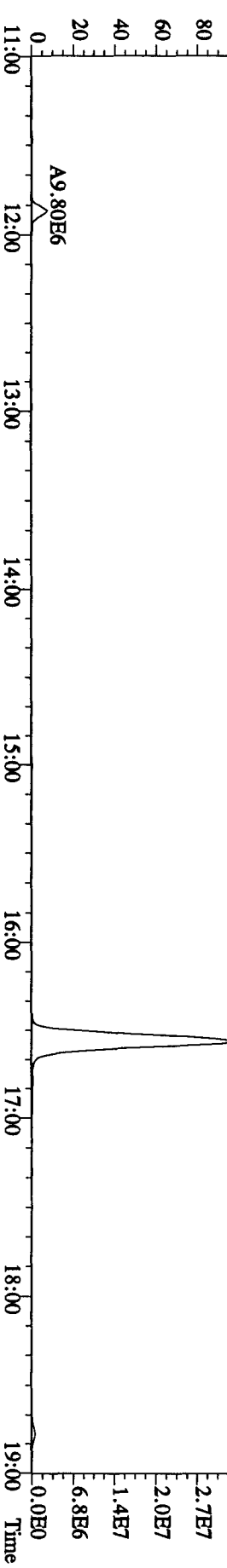
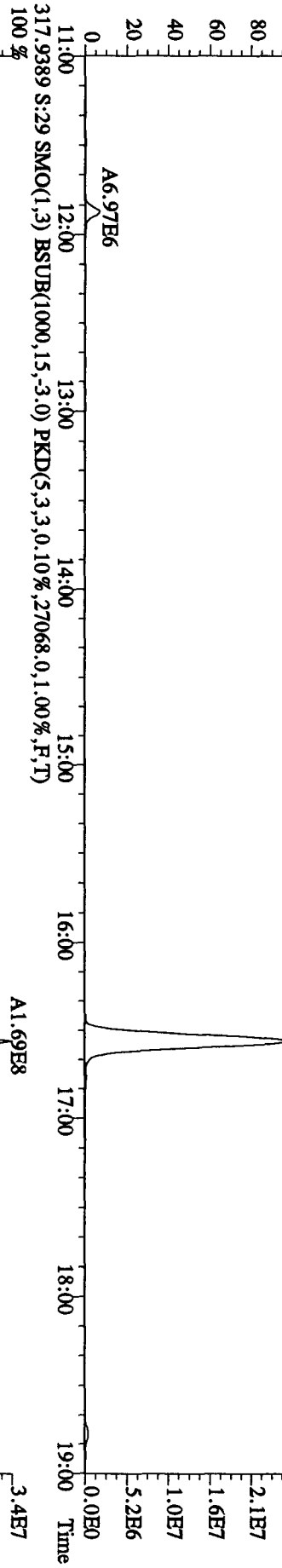
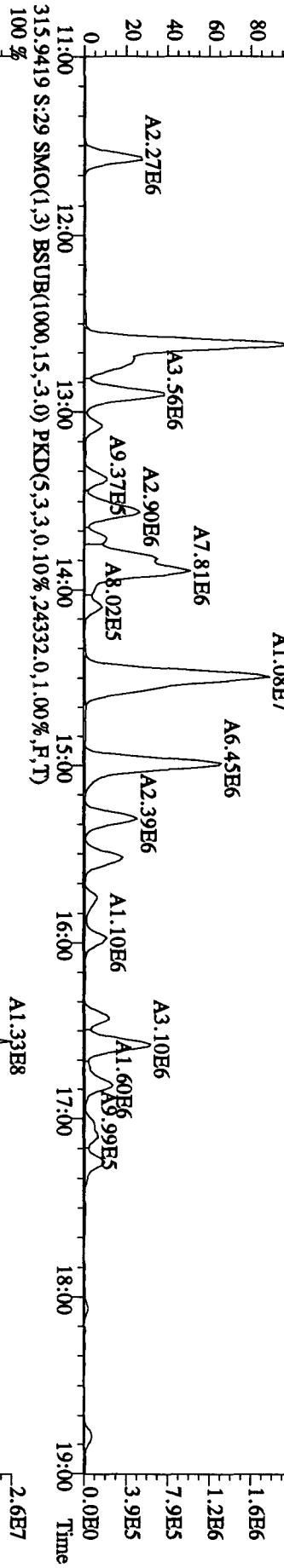
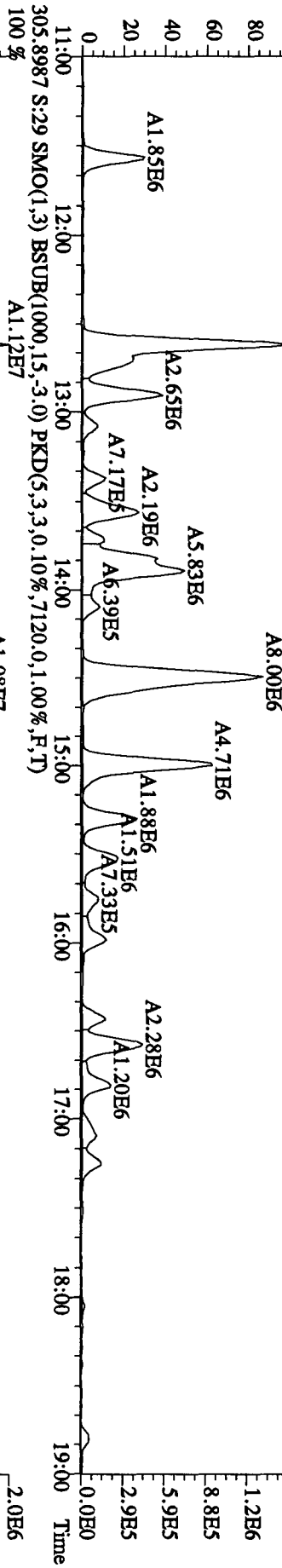
100%



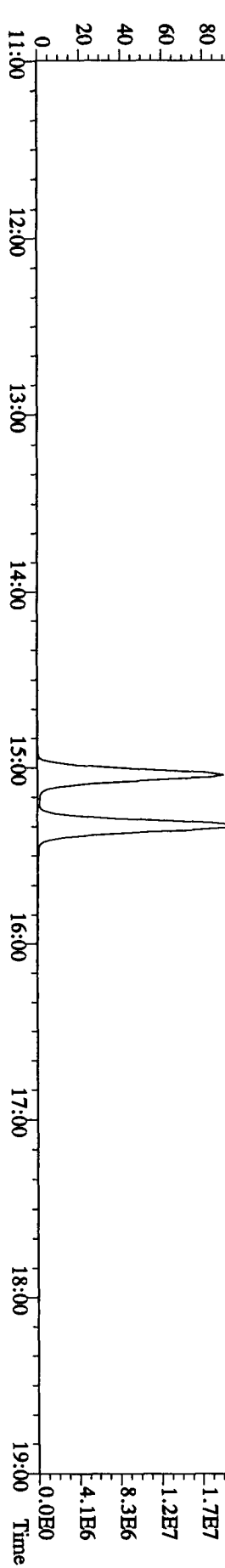
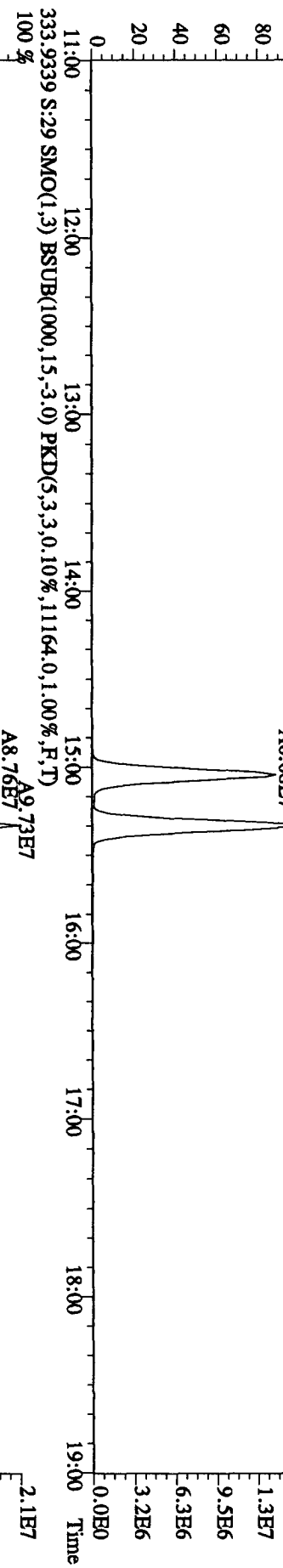
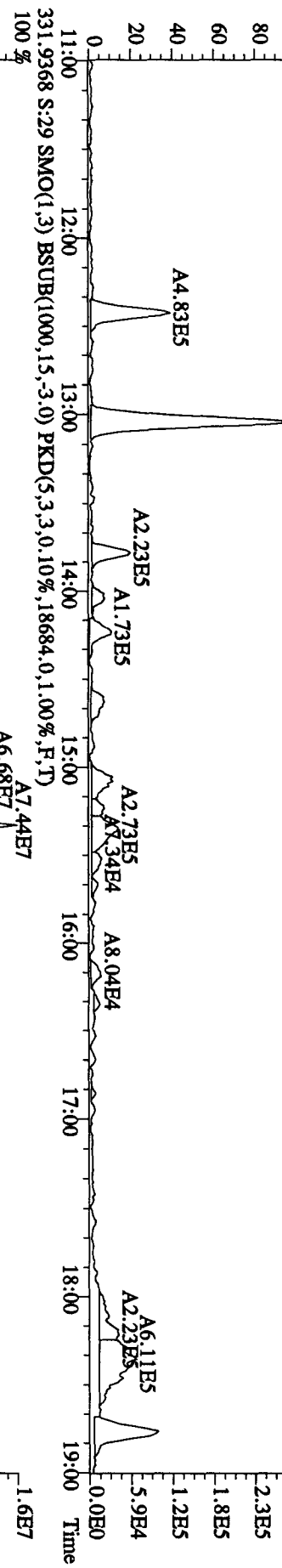
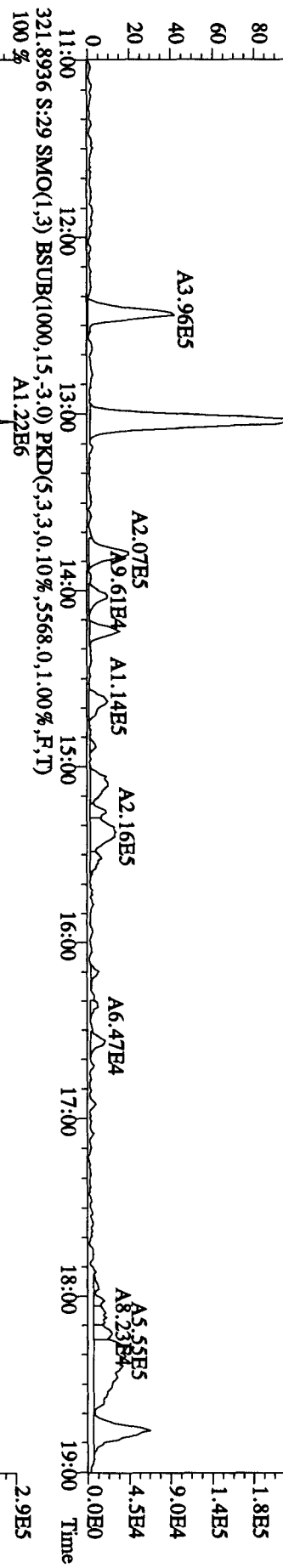
Run text: L84NP-1-AA Sample text: L84NP-1-AA :G0J260480-9
 Run #10 Filename: 04NO105D2 S: 29 I: 1 Results: 04NO105D2DB225AIR
 Acquired: 5-NOV-10 01:22:52 Processed: 5-NOV-10 08:39:53
 Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAM

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	171710000	0.76 y	15:20	-	184.90	-	-	n
					3303.751		82.6	
13C-2,3,7,8-TCDF	302069000	0.78 y	16:34	1.642.035	4300.92	10.33	107.5	n
2,3,7,8-TCDF	5376580	0.74 y	16:35	1.06	67.20	2.20	-	n
13C-2,3,7,8-TCDD	154408300	0.76 y	15:02	0.96	3758.07	10.25	94.0	n
2,3,7,8-TCDD	329361	0.77 y	15:07	1.24	6.89	2.93	-	n
37C1-2,3,7,8-TCDD	83959800	1.00 y	15:03	1.54	1416.22	3.31	88.5	n

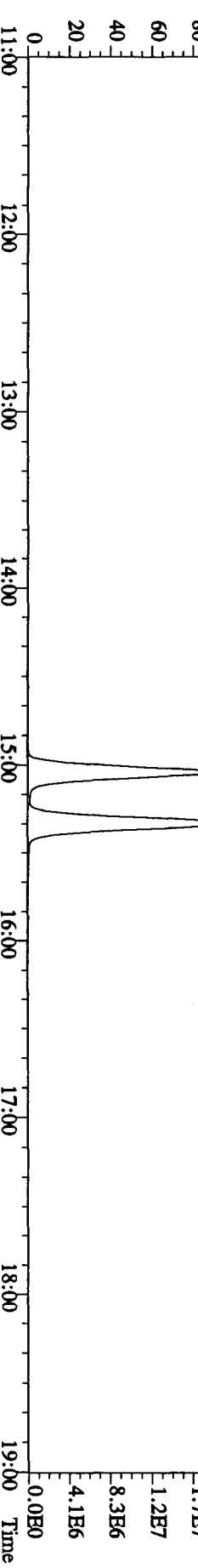
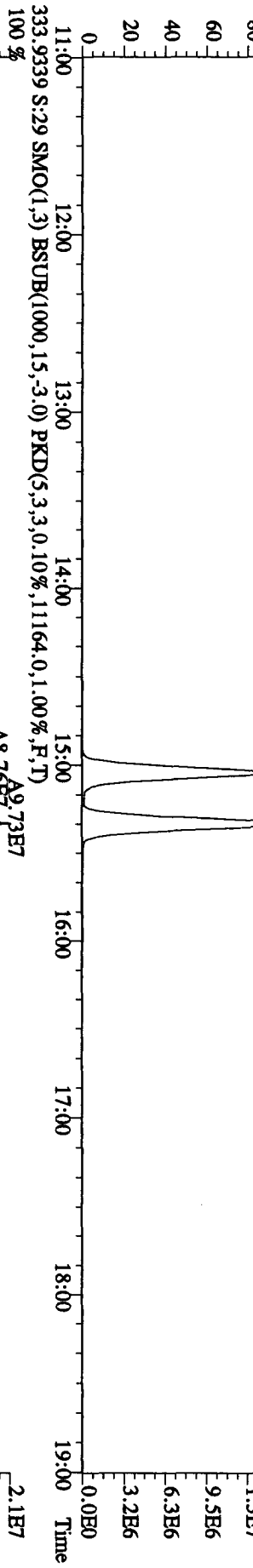
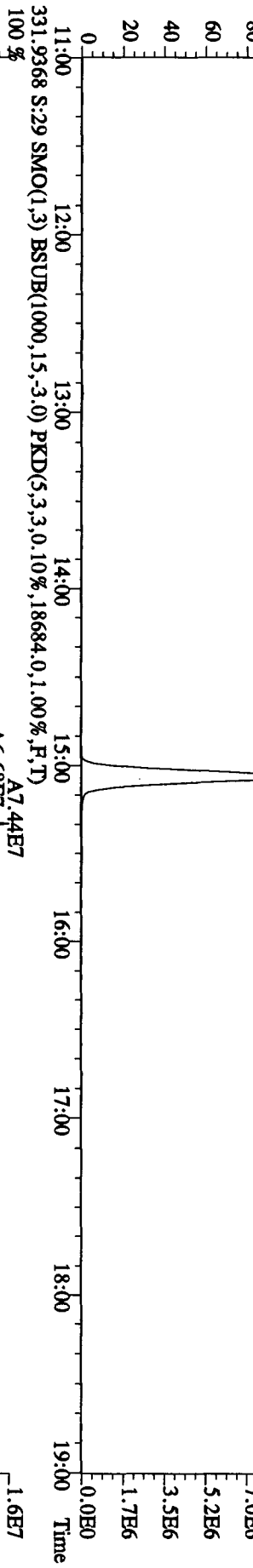
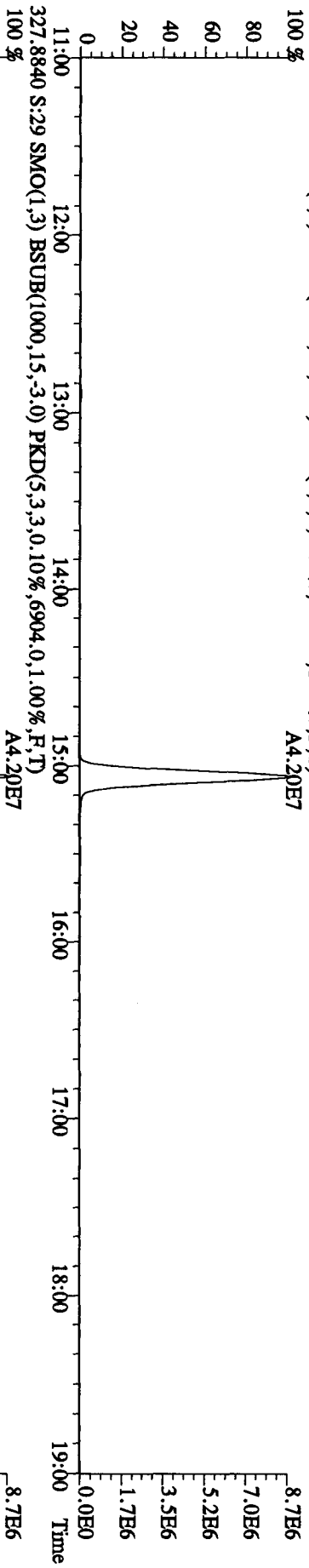
File:04\NO105D2 #1-1242 Acq: 5-NOV-2010 01:22:52 GC EI+ Voltage SIR 70SE
 Sample#29 Text:1.84NP-1-AA :G0J260480-9 Exp:DB225RES
 303.9016 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)
 100 % A8.23E6



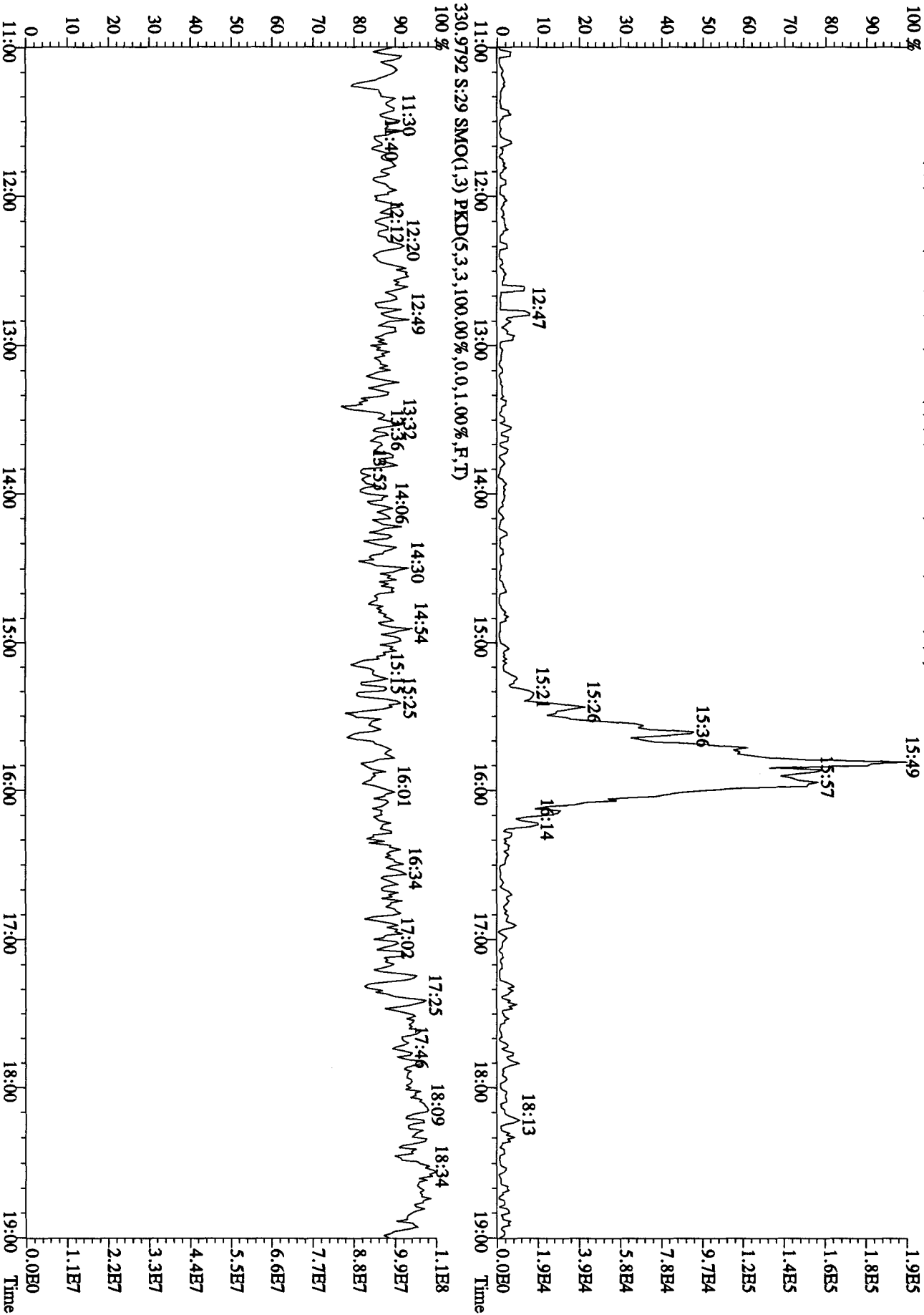
File:04NNO105D2 #1-1242 Acq: 5-NOV-2010 01:22:52 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84NP-1-AA :G01260480-9 Exp:DB225RES
 319.8965 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4276.0,1.00%,F,T)
 100 % A1.03E6



File:04NNO105D2 #1-1242 Acq: 5-NOV-2010 01:22:52 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84NP-1-AA :G01260480-9 Exp:DB225RES
 327.8840 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6904.0,1.00%,F,T)
 100 % A4.20E7



File:04\NO105D2 #1-1242 Acq: 5-NOV-2010 01:22:52 GC EI+ Voltage SIR 70SE
 Sample#29 Text:1.84NP-1-AA :G0J260480-9 Exp:DB225RES
 375.8364 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2716.0,1.00%,F,T)



Run text: L84N6-1-AA Sample text: L84N6-1-AA :G0J260480-13
 Run #14 Filename: 02NO10A1D5 S: 36 I: 1 Results: 02no10ald5to9os
 Acquired: 3-NOV-10 15:35:14 Processed: 3-NOV-10 16:16:30
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

05
11-8-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	37088100	0.79 y	17:56	-	43.380	-	-	n
13C-2,3,7,8-TCDF	60894700	0.81 y	17:26	1.57	4171.214	0.561	104.3	n
2,3,7,8-TCDF	11795910	0.80 y	17:28	0.88	883.014	5.954	-	n
Total TCDF	88004522	0.78 y	15:00	0.88	6587.810 6583.2 ✓	5.954	-	n
13C-2,3,7,8-TCDD	32645400	0.83 y	18:07	0.99	3558.867	3.572	89.0	n
2,3,7,8-TCDD	112513	0.97 n	18:07	0.94	14.664 J,R	3.105	-	y
Total TCDD	3257690	2.05 n	14:49	0.94	424.587 295.69 373.02	3.105	-	y
37Cl-2,3,7,8-TCDD	17564120	1.00 y	18:08	1.18	1828.437	1.012	114.3	n
13C-1,2,3,7,8-PeCDF	37436400	1.73 y	22:28	1.15	3497.502	0.433	87.4	n
1,2,3,7,8-PeCDF	2855390	1.65 y	22:30	1.03	296.438	12.373	-	n
2,3,4,7,8-PeCDF	1352176	1.42 y	23:49	0.95	152.566	13.447	-	n
Total F2 PeCDF	21700350	1.55 y	20:55	0.99	2340.605	12.887	-	n
Total F1 PeCDF	1190619	0.76 n	14:37	0.99	128.749 110.14	1.746	-	n
13C-1,2,3,7,8-PeCDD	18499540	1.69 y	24:30	0.67	2991.258	0.200	74.8	n
1,2,3,7,8-PeCDD	55167	0.87 n	24:32	0.96	12.412 J,R	9.266	-	n
Total PeCDD	800955	1.50 y	21:20	0.96	180.212 162.11 ✓	9.266	-	n
13C-1,2,3,7,8,9-HxCDD	28593100	1.33 y	30:50	-	42.535	-	-	n
13C-1,2,3,4,7,8-HxCDF	34748200	0.48 y	29:32	1.15	4233.380	3.470	105.8	n
1,2,3,4,7,8-HxCDF	4464580	1.31 y	29:33	1.22	421.592 ✓	6.098	-	y
1,2,3,6,7,8-HxCDF	3453990	1.30 y	29:41	1.41	282.560 ✓	5.283	-	y
2,3,4,6,7,8-HxCDF	767529	1.41 y	30:19	1.23	71.709 J	6.034	-	y
1,2,3,7,8,9-HxCDF	474230	1.49 n	31:03	1.08	50.371 J,R	6.859	-	y
Total HxCDF	21689665	1.19 y	27:59	1.24	1993.602 1989.02 ✓	6.017	-	y
13C-1,2,3,6,7,8-HxCDD	24359900	1.37 y	30:32	0.96	3554.049	1.042	88.9	n
1,2,3,4,7,8-HxCDD	58084	1.97 n	30:28	0.89	10.749 J,R	6.220	-	y
1,2,3,6,7,8-HxCDD	136926	1.27 y	30:32	1.05	21.436 J	5.262	-	y
1,2,3,7,8,9-HxCDD	170340	1.31 y	30:50	1.00	27.836 J	5.492	-	y
Total HxCDD	1109887	1.22 y	28:15	0.98	184.728 176.7 ✓	5.630	-	y
13C-1,2,3,4,6,7,8-HpCDF	24593900	0.41 y	32:27	0.98	3495.347	23.795	87.4	n
1,2,3,4,6,7,8-HpCDF	9191100	1.12 y	32:27	1.33	1122.744 ✓	11.787	-	n
1,2,3,4,7,8,9-HpCDF	2973170	1.12 y	33:41	1.12	432.128 ✓	14.024	-	n
Total HpCDF	17206716	1.12 y	32:27	1.23	2224.226 2215.816 ✓	12.809	-	n
13C-1,2,3,4,6,7,8-HpCDD	19182210	1.14 y	33:20	0.82	3255.027	5.598	81.4	n
1,2,3,4,6,7,8-HpCDD	392861	1.06 y	33:20	1.05	78.160 J	5.861	-	n
Total HpCDD	626520	1.66 n	32:28	1.05	124.647 117.9 ✓	5.861	-	n
13C-OCDD	23537300	0.91 y	35:57	0.54	6077.266	2.918	76.0	n
OCDF	14139180	0.93 y	36:04	1.58	3041.807,	14.151	-	n

OCDD 391547 0.92 y 35:57 1.13 117.447 / 4.041 - n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? yes #Hom:17
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 212.28 of which 7.33 named and 204.95 unnamed
 Conc: 424.57 of which 14.66 named and 409.90 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:49	2.05 n	2.57	22836 11132	10.1 2.2		Y Y n n
	2	15:14	4.33 n	1.36	25519 5898	10.9 1.8		Y Y n Y
	3	15:54	0.91 n	76.13	300163 330045	133.1 64.2		Y n Y n
	4	16:12	0.80 y	190.85	650137 814239	319.7 150.4		Y n Y n
	5	16:26	1.36 n	13.71	80531 59412	26.8 11.0		Y n Y Y
	6	16:38	0.34 n	2.17	7259 21569	3.0 3.3		Y Y Y Y
	7	16:45	0.73 y	4.85	15678 21569	4.8 3.3		Y Y Y Y
	8	17:12	1.43 n	21.81	134893 94553	29.1 13.4		Y Y Y Y
	9	17:38	0.89 n	15.06	58409 65282	23.4 10.2		Y Y Y n
	10	17:54	0.66 y	19.98	61103 92176	32.4 15.5		Y Y Y n
	11	18:02	0.84 y	37.76	132070 157699	42.0 25.9		Y Y Y n
2, 3, 7, 8-TCDD	12	18:07	0.97 n	14.66	61373 63567	31.2 11.5		Y Y Y n
	13	18:19	0.52 n	7.79	26011 50384	16.4 7.6		Y Y Y n
	14	18:31	3.59 n	6.42	99953 27832	28.1 3.7		Y Y Y n
	15	18:45	0.80 y	4.74	16181 20195	7.6 2.5		Y Y n Y

2A

16	19:03	1.24	n	1.18	6339	2.4	n	y
					5106	1.3	n	n
17	19:53	1.00	n	3.51	15169	6.2	y	y
					15231	3.0	n	y

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:18
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1q

Amount: 3293.91 of which 441.51 named and 2852.40 unnamed
 Conc: 6587.81 of which 883.01 named and 5704.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:00	0.78 y	292.12	1706570 2195780	146.4 185.5	y	n
	2	15:20	0.83 y	95.28	578718 694051	41.8 53.2	y	n
	3	15:29	0.72 y	85.99	480484 668287	39.9 46.9	y	n
	4	15:46	0.77 y	1524.92	8832820 11538100	629.8 806.5	y	n
	5	16:00	0.80 y	578.65	3443210 4286780	205.8 240.6	y	n
	6	16:17	0.84 y	474.00	2898490 3433580	147.8 159.6	y	n
	7	16:32	0.79 y	553.19	3263780 4126150	238.1 279.8	y	n
	8	16:47	0.85 y	525.66	3216290 3805830	214.9 231.6	y	n
	9	16:53	0.84 y	567.96	3452900 4134250	241.3 280.0	y	n
	10	17:04	0.82 y	624.49	3751430 4590980	279.3 342.8	y	n
	11	17:16	0.92 n	131.73	917213 994174	48.3 51.0	y	n
2,3,7,8-TCDF	12	17:28	0.80 y	883.01	5242080 6553830	337.0 406.4	y	n
	13	17:40	0.84 y	9.60	58663 69639	4.4 4.6	y	n
	14	17:52	0.87 y	102.29	637132 729350	38.8 48.2	y	n
	15	18:07	0.64 n	61.47	357250 559711	21.2 29.0	y	n

16	18:20	0.93	n	34.84	243965	14.7	y	n
					262917	14.6	y	n
17	19:18	0.75	y	37.99	217330	14.1	y	n
					290159	18.9	y	n
18	19:34	1.21	n	4.61	42116	2.6	n	n
					34801	1.9	n	n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:17
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 227.66 of which * named and 227.66 unnamed
 Conc: 455.32 of which * named and 455.32 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:49	2.05 n	2.57	22835 11132	10.1 2.2	y n	n n
	2	15:14	4.33 n	1.36	25517 5892	10.9 1.8	y n	n n
	3	15:54	0.91 n	76.13	300160 330043	133.1 64.2	y y	n n
	4	16:12	0.80 y	190.85	650135 814236	319.7 150.4	y y	n n
	5	16:26	1.36 n	13.70	80529 59408	26.8 11.0	y y	n n
	6	16:38	0.34 n	2.17	7260 21568	3.0 3.3	y y	n n
	7	16:45	0.73 y	4.85	15676 21568	4.8 3.3	y y	n n
	8	17:01	0.77 y	54.99	183207 238762	83.9 36.5	y y	n n
	9	17:12	2.28 n	13.63	134897 59092	29.1 12.5	y y	n n
	10	17:38	0.89 n	15.06	58415 65282	23.4 10.2	y y	n n
	11	17:54	0.66 y	19.98	61121 92176	32.2 15.5	y y	n n
	12	18:02	1.33 n	36.38	210394 157699	41.9 25.9	y y	n n
	13	18:19	0.52 n	7.79	25991 50384	16.4 7.6	y y	n n
	14	18:31	3.59 n	6.42	99958 27832	28.1 3.7	y y	n n
	15	18:45	0.80 y	4.74	16180 20198	7.6 2.5	y n	n n
	16	19:03	1.24 n	1.18	6340	2.4	n	n

*See
2A*

5106 1.3 n n

17 19:53 1.00 n 3.51 15165 6.2 y n
15227 3.0 n n

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Run Text: L84N6-1-AA Sample text: L84N6-1-AA :G0J260480-13

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:13
Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1170.30 of which 224.50 named and 945.80 unnamed
Conc: 2340.60 of which 449.00 named and 1891.60 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:55	1.55 y	144.59	813258 523827	28.6 58.3	y	n
	2	21:08	1.61 y	740.75	4222040 2628120	118.8 224.1	y	n
	3	21:22	1.50 y	105.52	586047 389779	17.4 32.6	y	n
	4	21:37	1.62 y	97.25	555519 343790	14.1 27.4	y	n
	5	22:01	1.63 y	326.03	1867590 1147410	42.5 75.1	y	n
	6	22:22	1.87 n	101.24	686506 367163	22.7 39.3	y	n
1,2,3,7,8-PeCDF	7	22:30	1.65 y	296.44	1778320 1077070	61.2 103.5	y	n
	8	22:46	1.93 n	63.63	445800 230743	13.7 18.7	y	n
	9	23:03	1.76 y	167.95	989952 563182	24.7 38.1	y	n
2,3,4,7,8-PeCDF	10	23:49	1.42 y	152.57	793100 559076	20.5 44.1	y	n
	11	24:09	1.48 y	95.10	525194 354273	11.0 23.9	y	n
	12	24:40	1.38 y	28.14	150785 109412	4.1 9.1	y	n
	13	25:47	0.94 n	21.41	120320 127547	4.0 11.9	y	n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:19
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 64.37 of which * named and 64.37 unnamed
 Conc: 128.75 of which * named and 128.75 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:37	0.76 n	1.86	10482 13872	6.7 4.2	y y	n n
	2	15:14	0.37 n	0.60	3370 9107	2.7 4.6	n y	n n
	3	15:25	0.20 n	0.72	4042 20104	3.0 5.8	y y	n n
	4	16:03	1.36 y	0.84	4463 3278	4.6 2.7	y n	n n
	5	16:11	1.24 n	0.71	3998 3227	3.5 1.2	y n	n n
	6	16:16	4.13 n	0.89	13342 3227	7.6 1.2	y n	n n
	7	16:25	0.86 n	0.35	1988 2303	1.6 1.3	n n	n n
	8	16:34	0.70 n	0.74	4167 5919	3.4 2.7	y n	n n
	9	16:52	0.36 n	0.72	4024 11055	2.6 5.0	n y	n n
	10	17:02	0.55 n	0.86	4859 8759	3.9 3.8	y y	n n
	11	17:12	0.65 n	0.90	5036 7740	5.1 3.3	y y	n n
	12	17:26	0.35 n	0.83	4688 13359	3.8 4.0	y y	n n
	13	17:42	0.62 n	0.42	2365 3809	2.0 1.7	n n	n n
	14	18:19	0.18 n	0.33	1878 10520	1.7 5.0	n y	n n
	15	18:43	0.47 n	0.81	4536 9734	2.7 5.1	n y	n n
	16	19:03	0.91 n	4.13	23225	8.2	y	n

					25530	6.5	y	n
17	19:21	1.42	y	1.77	9571	6.7	y	n
					6755	2.4	n	n
18	19:34	1.70	y	110.14	641577	374.8	y	n
					376930	105.8	y	n
19	20:22	0.72	n	1.13	6326	6.3	y	n
					8754	4.6	y	n

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Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:9
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 90.11 of which 6.21 named and 83.90 unnamed
 Conc: 180.21 of which 12.41 named and 167.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N >?	Mod?
	1	21:20	1.50 y	59.85	159566 106452	12.1 58.9	y n y n
	2	22:29	1.64 y	45.53	125653 76684	11.2 37.2	y n y n
	3	22:43	0.55 n	2.62	7078 12979	1.4 13.2	n n y n
	4	23:04	1.86 n	44.32	143742 77245	12.9 38.6	y n y n
	5	23:47	3.31 n	1.86	10701 3236	1.6 3.4	n n y n
	6	23:56	5.03 n	5.52	48453 9630	3.8 8.7	y n y n
	7	24:05	6.53 n	4.78	54428 8334	3.9 11.3	y n y n
1,2,3,7,8-PeCDD	8	24:32	0.87 n	12.41	33533 38723	4.0 21.3	y n y n
	9	24:52	2.02 n	3.32	11713 5786	1.8 6.4	n n y n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 1061.86 of which 554.06 named and 507.81 unnamed
 Conc: 2123.72 of which 1108.11 named and 1015.61 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:59	1.19 y	240.93	1404560 1181340	70.4 83.4	y	n
	2	28:17	1.30 y	396.14	2404250 1847540	128.7 143.0	y	n
	3	28:34	0.97 n	24.22	143919 148311	7.5 11.9	y	n
	4	28:47	1.20 y	66.80	390761 326233	24.0 23.2	y	n
	5	29:02	1.82 n	43.04	375774 206214	21.7 18.3	y	n
1,2,3,4,7,8-HxCDF	6	29:33	1.36 y	532.72	3255160 2386200	215.6 233.8	y	n
1,2,3,6,7,8-HxCDF	7	29:41	1.24 y	272.52	1843660 1487570	135.8 158.7	y	n
	8	29:48	1.30 y	121.04	735001 564067	49.2 53.7	y	n
	9	30:03	1.20 y	119.14	698665 580065	32.7 46.9	y	n
2,3,4,6,7,8-HxCDF	10	30:14	1.36 y	167.61	1035440 758576	43.1 45.7	y	n
	11	30:35	2.23 n	4.30	45840 20597	2.6 3.0	n	n
1,2,3,7,8,9-HxCDF	12	31:06	1.23 y	135.27	702131 571358	27.3 38.7	y	n

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6A

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:10
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1

Amount: 95.65 of which 33.29 named and 62.35 unnamed

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 996.80 of which 413.12 named and 583.68 unnamed
 Conc: 1993.60 of which 826.23 named and 1167.37 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:59	1.19 y	240.93	1404560 1181340	70.4 83.4	y	n
	2	28:17	1.30 y	396.14	2404250 1847540	128.7 143.0	y	n
	3	28:34	0.97 n	24.22	143919 148311	7.5 11.9	y	n
	4	28:47	1.20 y	66.80	390761 326233	24.0 23.2	y	n
	5	29:02	1.82 n	43.04	375774 206213	21.7 18.3	y	n
	6	29:31	1.31 y	101.77	619931 472415	85.9 109.1	y	y
1,2,3,4,7,8-HxCDF	7	29:33	1.31 y	421.59	2533340 1931240	215.8 234.5	y	y
1,2,3,6,7,8-HxCDF	8	29:41	1.30 y	282.56	1953450 1500540	136.0 159.4	y	y
	9	29:48	1.31 y	120.93	735001 562959	49.2 54.4	y	n
	10	30:14	1.32 y	98.07	597906 454647	43.4 46.4	y	y
2,3,4,6,7,8-HxCDF	11	30:19	1.41 y	71.71	449426 318103	39.3 40.9	y	y
	12	30:35	2.23 n	4.20	45841 20597	2.6 3.0	n	n
1,2,3,7,8,9-HxCDF	13	31:03	1.49 n	50.37	316126 211710	24.0 28.0	y	y
	14	31:06	1.16 y	71.16	409718 354038	27.7 38.9	y	y

Conc: 191.29 of which 66.59 named and 124.71 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	28:15	1.22	y	2.51	8218 6744	1.5 1.4	n n	n n
	2	28:49	0.64	n	1.76	5812 9011	1.7 2.0	n n	n n
	3	28:58	1.98	n	9.87	52041 26318	8.6 4.2	y y	n n
	4	29:34	1.34	y	68.04	232588 173600	39.0 24.0	y y	n n
	5	29:52	1.38	y	38.76	134012 97402	24.5 12.8	y y	n n
	6	30:00	0.98	n	1.78	5867 5961	1.4 1.2	n n	n n
1,2,3,4,7,8-HxCDD	7	30:28	0.57	n	17.08	51089 90240	11.2 9.0	y y	n n
1,2,3,6,7,8-HxCDD	8	30:32	0.85	n	21.67	76643 90240	19.4 9.0	y y	n n
1,2,3,7,8,9-HxCDD	9	30:50	1.31	y	27.84	96472 73866	18.6 8.1	y y	n n
	10	31:00	0.44	n	2.00	6594 15004	1.9 2.2	n n	n n

Handwritten signature/initials

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:10
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 92.36 of which 30.01 named and 62.35 unnamed
 Conc: 184.73 of which 60.02 named and 124.71 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:15	1.22 y	2.51	8221 6744	1.5 1.4	n n	y n
	2	28:49	0.64 n	1.76	5812 9012	1.7 2.0	n n	n y
	3	28:58	1.98 n	9.87	52040 26318	8.6 4.2	y y	n n
	4	29:34	1.34 y	68.04	232591 173600	39.0 24.0	y y	n n
	5	29:52	1.38 y	38.76	134014 97402	24.5 12.8	y y	n n
	6	30:00	0.98 n	1.78	5868 5961	1.4 1.2	n n	y n
1,2,3,4,7,8-HxCDD	7	30:28	1.97 n	10.75	51089 25930	11.2 5.0	y y	n y
1,2,3,6,7,8-HxCDD	8	30:32	1.27 y	21.44	76643 60283	19.4 9.1	y y	n y
1,2,3,7,8,9-HxCDD	9	30:50	1.31 y	27.84	96474 73866	18.6 8.1	y y	y n
	10	31:00	0.44 n	2.00	6594 15004	1.9 2.2	n n	y n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:5
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

Amount: 1112.11 of which 777.44 named and 334.68 unnamed
 Conc: 2224.23 of which 1554.87 named and 669.35 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	1.12 y	1122.74	4856740	272.6	y	n
					4334360	298.6	y	n
	2	32:40	1.14 y	286.27	1149010	58.4	y	n
					1007570	64.3	y	n
1,2,3,4,7,8,9-HpCDF	3	32:48	1.12 y	374.67	1493430	69.8	y	n
					1329080	78.9	y	n
1,2,3,4,7,8,9-HpCDF	4	33:41	1.12 y	432.13	1571190	71.2	y	n
					1401980	83.0	y	n
	5	33:52	0.91 y	8.41	30214	1.7	n	n
					33142	2.0	n	n

Run Text: L84N6-1-AA

Sample text: L84N6-1-AA :G0J260480-13

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
 Run: 14 File: 02NO10A1D5 S:36 Acq:3-NOV-10 15:35:14
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A17

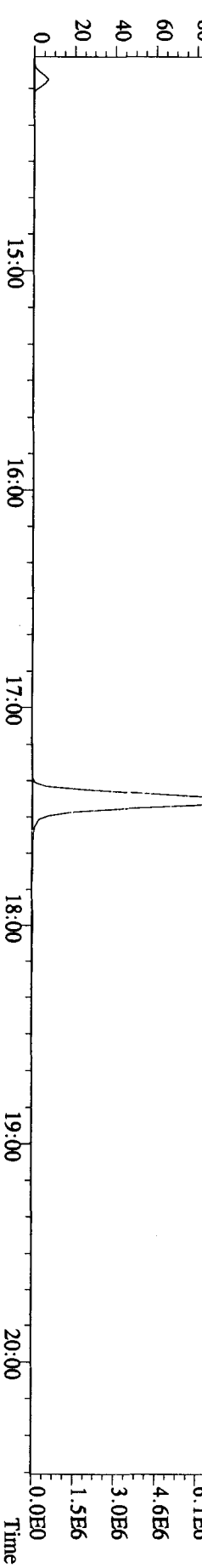
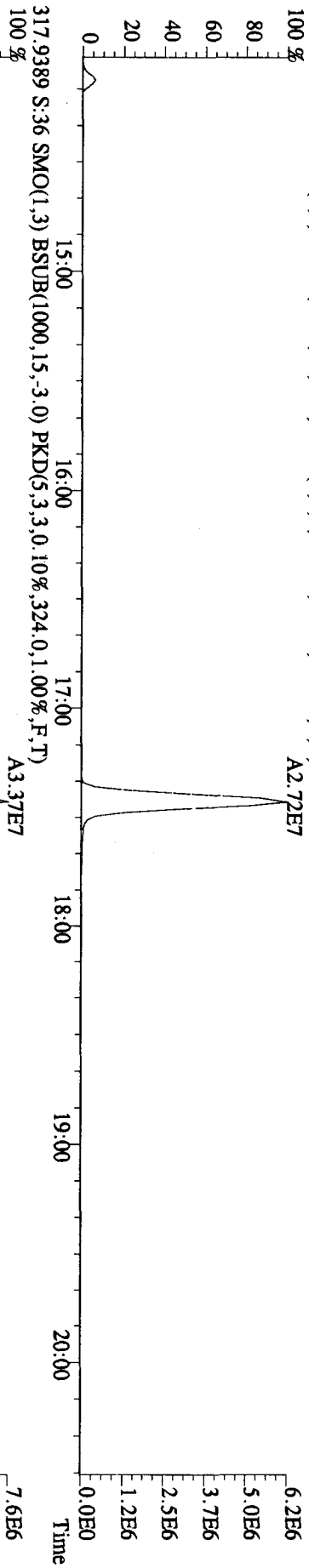
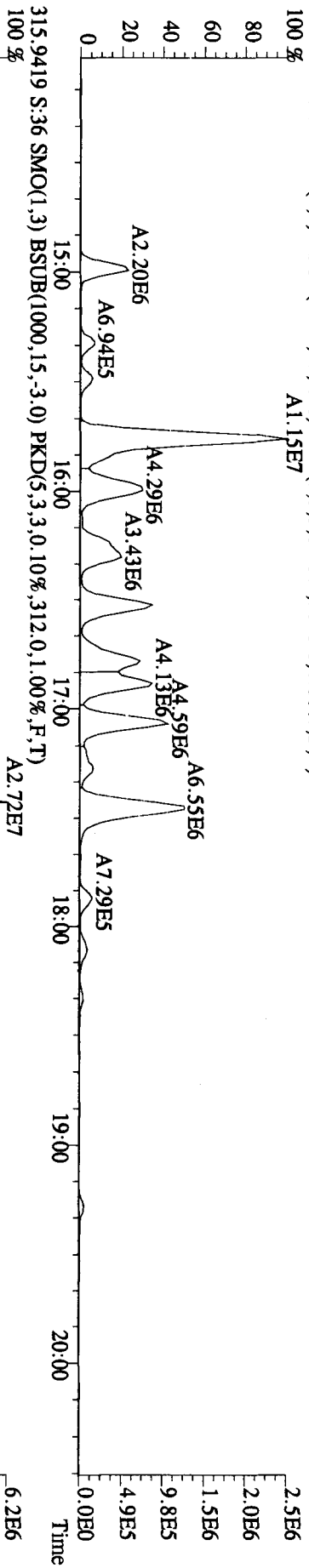
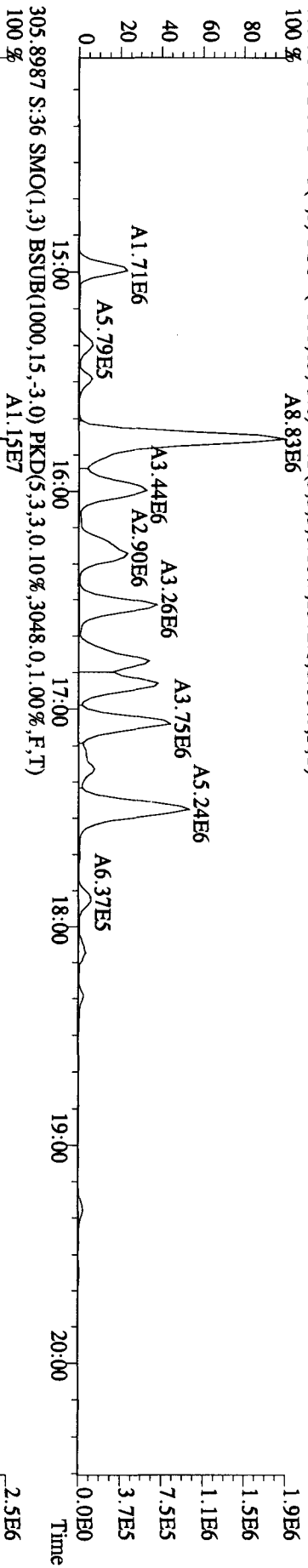
Amount: 62.32 of which 39.08 named and 23.24 unnamed
 Conc: 124.65 of which 78.16 named and 46.49 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDD	1	32:28	1.66 n	4.35	17791	4.9	y	n
					10728	2.3	n	n
1,2,3,4,6,7,8-HpCDD	2	32:43	0.98 y	39.74	98869	22.7	y	n
					100884	18.5	y	n
1,2,3,4,6,7,8-HpCDD	3	33:20	1.06 y	78.16	202395	50.3	y	n
					190466	35.8	y	n
1,2,3,4,6,7,8-HpCDD	4	34:29	1.53 n	2.29	9042	3.3	y	n
					5892	1.8	n	n

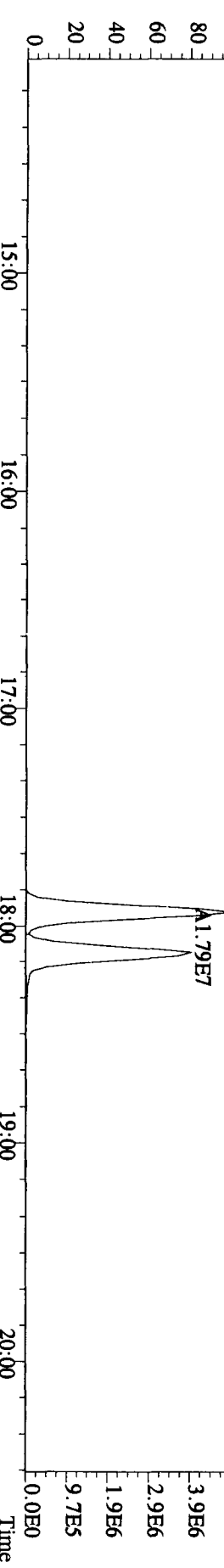
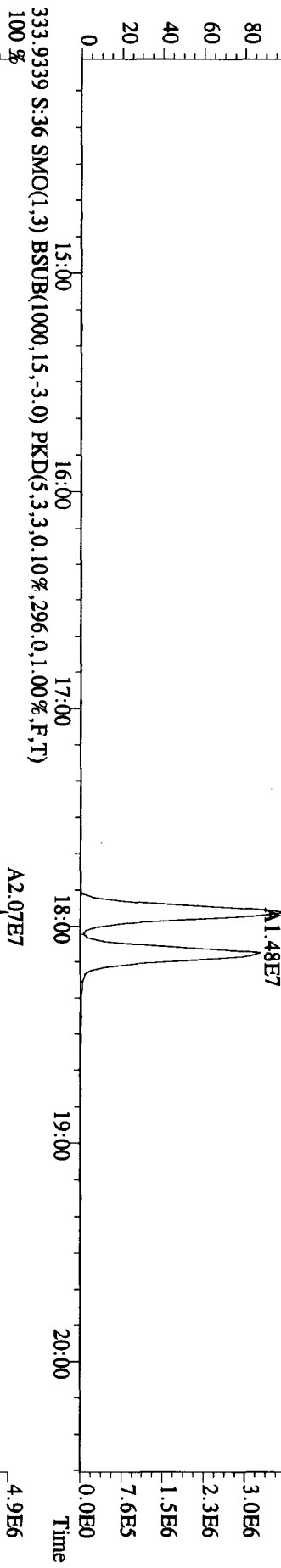
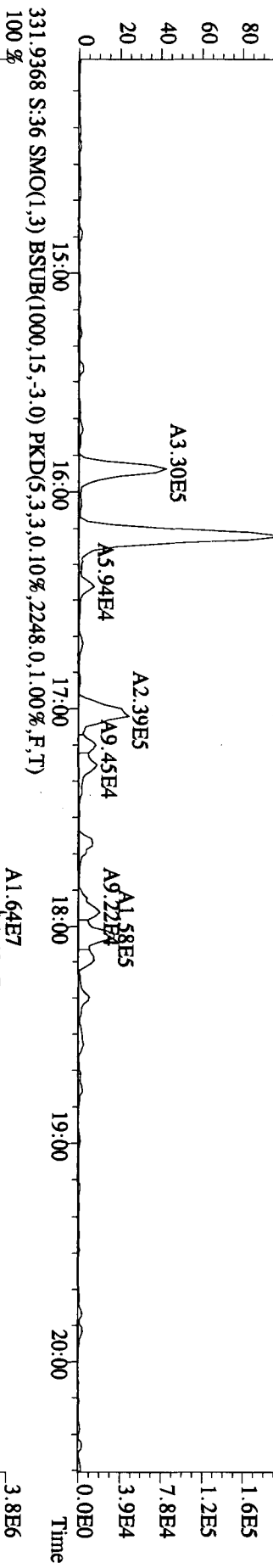
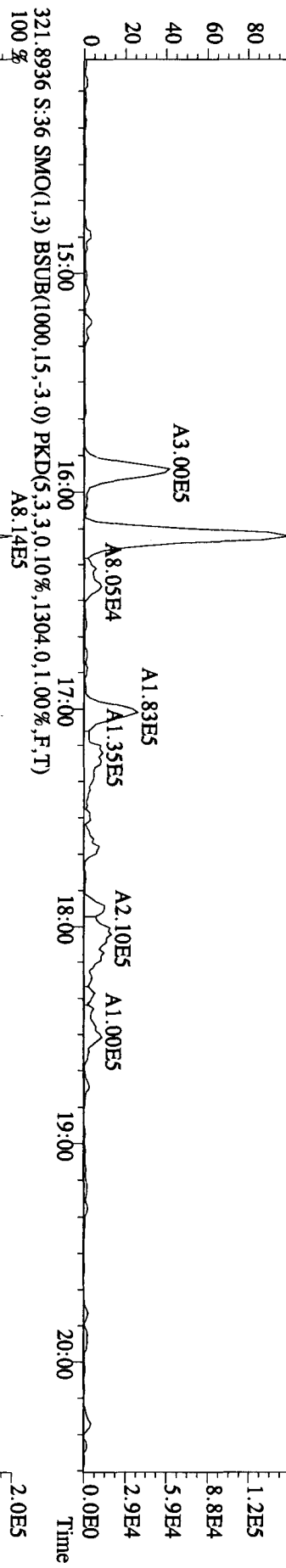
Run text: L84N6-1-AA Sample text: L84N6-1-AA :G0J260480-13
 Run #14 Filename: 02NO10A1D5 S: 36 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 15:35:14 Processed: 3-NOV-10 16:16:30
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	37088100	0.79 y	17:56	-	43.38	-	-	n
13C-2,3,7,8-TCDF	60894700	0.81 y	17:26	1.57	4171.21	0.56	104.3	n
2,3,7,8-TCDF	11795910	0.80 y	17:28	0.88	883.01	5.95	-	n
Total TCDF	88004522	0.78 y	15:00	0.88	6587.81	5.95	-	n
13C-2,3,7,8-TCDD	32645400	0.83 y	18:07	0.99	3558.87	3.57	89.0	n
2,3,7,8-TCDD	*	* n	NotFnd	0.94	*	3.10	-	n
Total TCDD	3493675	2.05 n	14:49	0.94	455.32	3.10	-	n
37Cl-2,3,7,8-TCDD	17564120	1.00 y	18:08	1.18	1828.44	1.01	114.3	n
13C-1,2,3,7,8-PeCDF	37436400	1.73 y	22:28	1.15	3497.50	0.43	87.4	n
1,2,3,7,8-PeCDF	2855390	1.65 y	22:30	1.03	296.44	12.37	-	n
2,3,4,7,8-PeCDF	1352176	1.42 y	23:49	0.95	152.57	13.45	-	n
Total F2 PeCDF	21700350	1.55 y	20:55	0.99	2340.60	12.89	-	n
Total F1 PeCDF	1190619	0.76 n	14:37	0.99	128.75	1.75	-	n
13C-1,2,3,7,8-PeCDD	18499540	1.69 y	24:30	0.67	2991.26	0.20	74.8	n
1,2,3,7,8-PeCDD	55167	0.87 n	24:32	0.96	12.41	9.27	-	n
Total PeCDD	800955	1.50 y	21:20	0.96	180.21	9.27	-	n
13C-1,2,3,7,8,9-HxCDD	28593100	1.33 y	30:50	-	42.53	-	-	n
13C-1,2,3,4,7,8-HxCDF	34748200	0.48 y	29:32	1.15	4233.38	3.47	105.8	n
1,2,3,4,7,8-HxCDF	5641360	1.36 y	29:33	1.22	532.72	6.10	-	n
1,2,3,6,7,8-HxCDF	3331230	1.24 y	29:41	1.41	272.52	5.28	-	n
2,3,4,6,7,8-HxCDF	1794016	1.36 y	30:14	1.23	167.61	6.03	-	n
1,2,3,7,8,9-HxCDF	1273489	1.23 y	31:06	1.08	135.27	6.86	-	n
Total HxCDF	22940616	1.19 y	27:59	1.24	2123.72	6.02	-	n
13C-1,2,3,6,7,8-HxCDD	24359900	1.37 y	30:32	0.96	3554.05	1.04	88.9	n
1,2,3,4,7,8-HxCDD	92290	0.57 n	30:28	0.89	17.08	6.22	-	n
1,2,3,6,7,8-HxCDD	138452	0.85 n	30:32	1.05	21.67	5.26	-	n
1,2,3,7,8,9-HxCDD	170338	1.31 y	30:50	1.00	27.84	5.49	-	n
Total HxCDD	1145604	1.22 y	28:15	0.98	191.29	5.63	-	n
13C-1,2,3,4,6,7,8-HpCDF	24593900	0.41 y	32:27	0.98	3495.35	23.79	87.4	n
1,2,3,4,6,7,8-HpCDF	9191100	1.12 y	32:27	1.33	1122.74	11.79	-	n
1,2,3,4,7,8,9-HpCDF	2973170	1.12 y	33:41	1.12	432.13	14.02	-	n
Total HpCDF	17206716	1.12 y	32:27	1.23	2224.23	12.81	-	n
13C-1,2,3,4,6,7,8-HpCDD	19182210	1.14 y	33:20	0.82	3255.03	5.60	81.4	n
1,2,3,4,6,7,8-HpCDD	392861	1.06 y	33:20	1.05	78.16	5.86	-	n
Total HpCDD	626520	1.66 n	32:28	1.05	124.65	5.86	-	n
13C-OCDD	23537300	0.91 y	35:57	0.54	6077.27	2.92	76.0	n
OCDF	14139180	0.93 y	36:04	1.58	3041.81	14.15	-	n
OCDD	391547	0.92 y	35:57	1.13	117.45	4.04	-	n

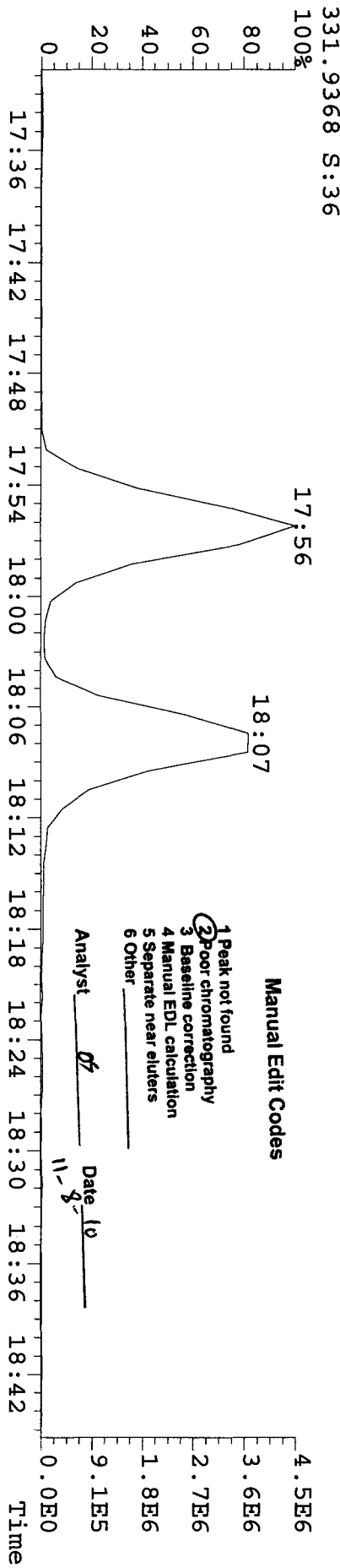
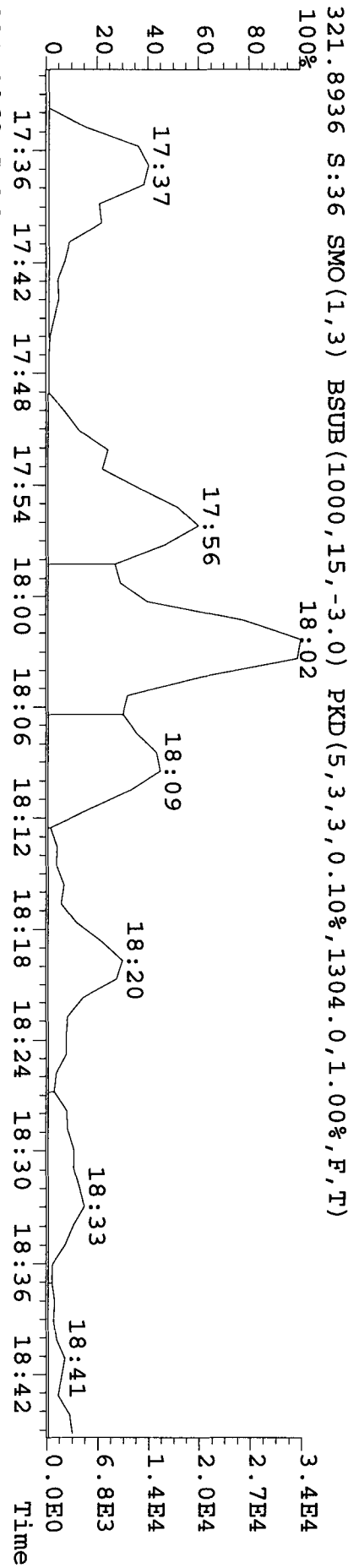
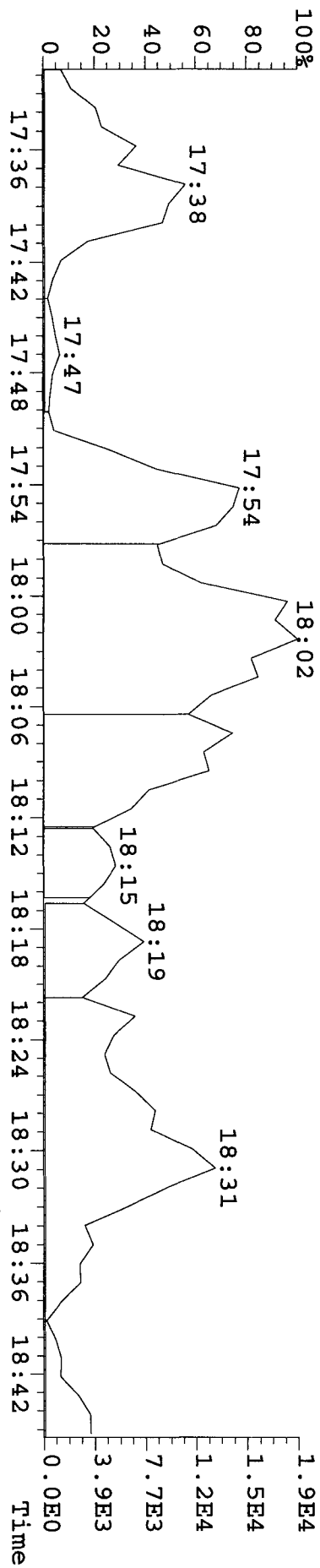
File: 02N010A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text:L84N6-1-AA :G0J260480-13 Exp:DIOXINRES
 303.9016 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2972.0,1.00%,F,T)
 100%



File: 02N010A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC: EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES
 319.8965 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,460,0,1,00%,F,T)



File: 02N010A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES
 319.8965 S:36 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)

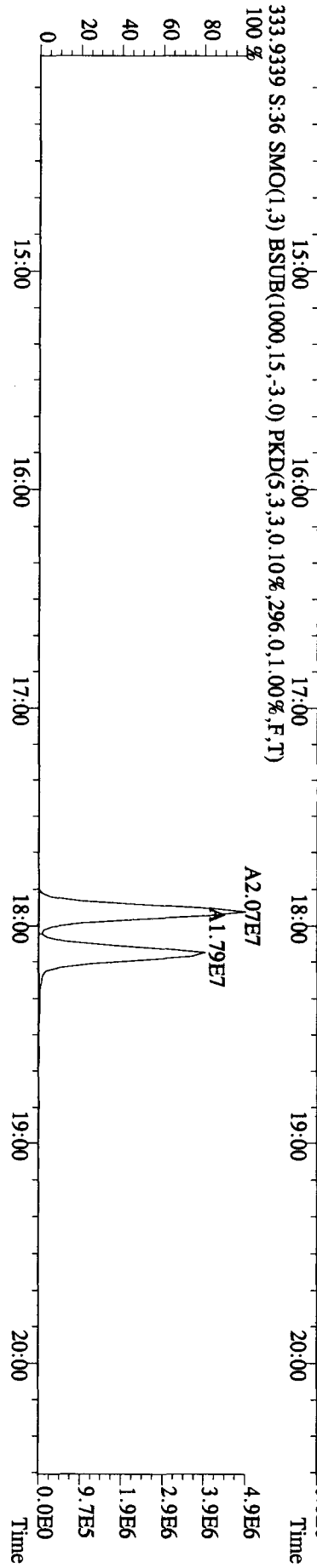
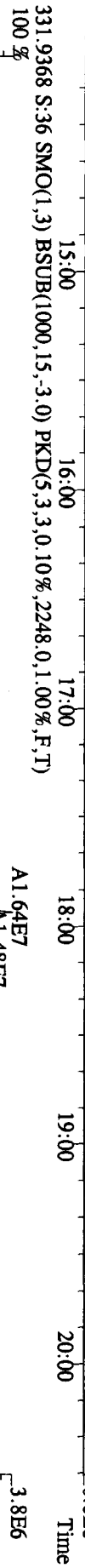
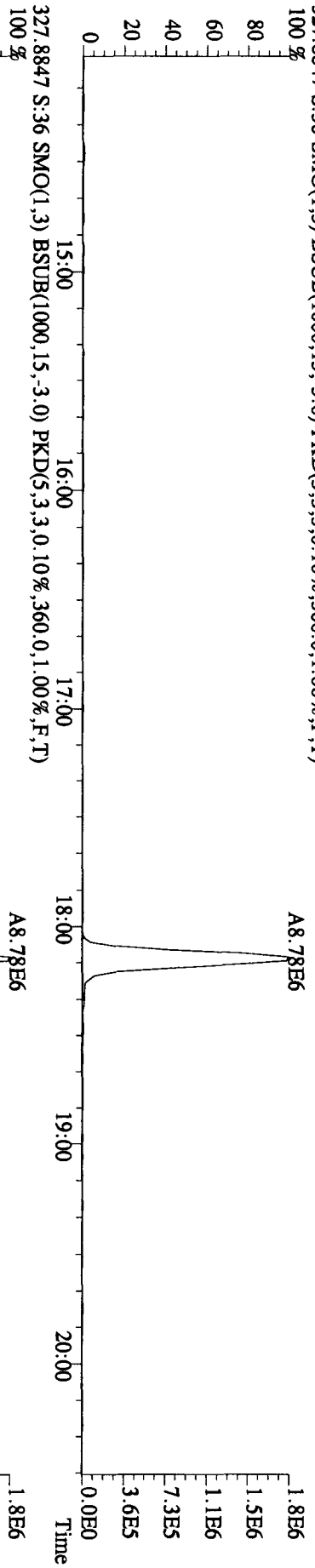


Manual Edit Codes

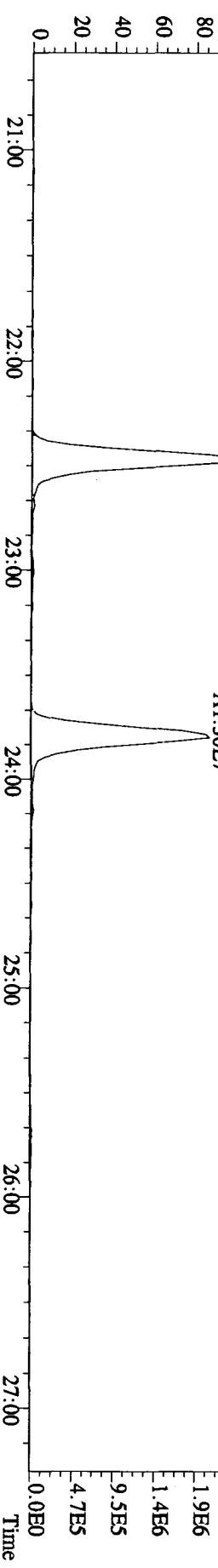
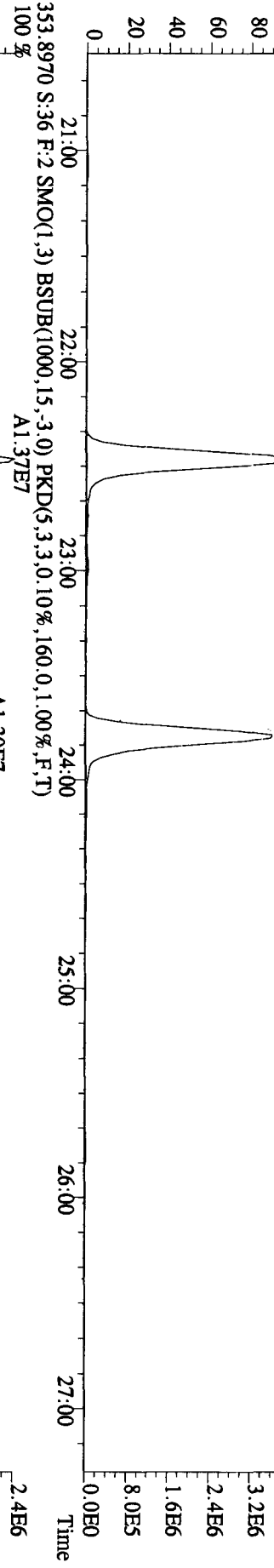
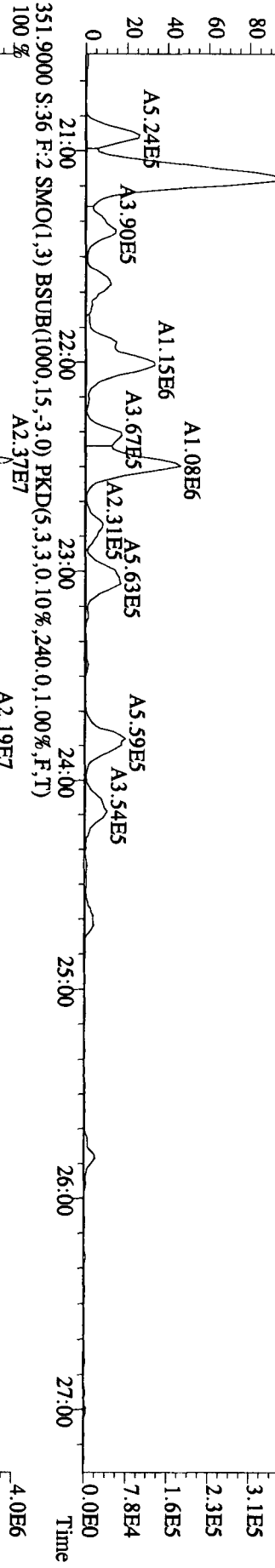
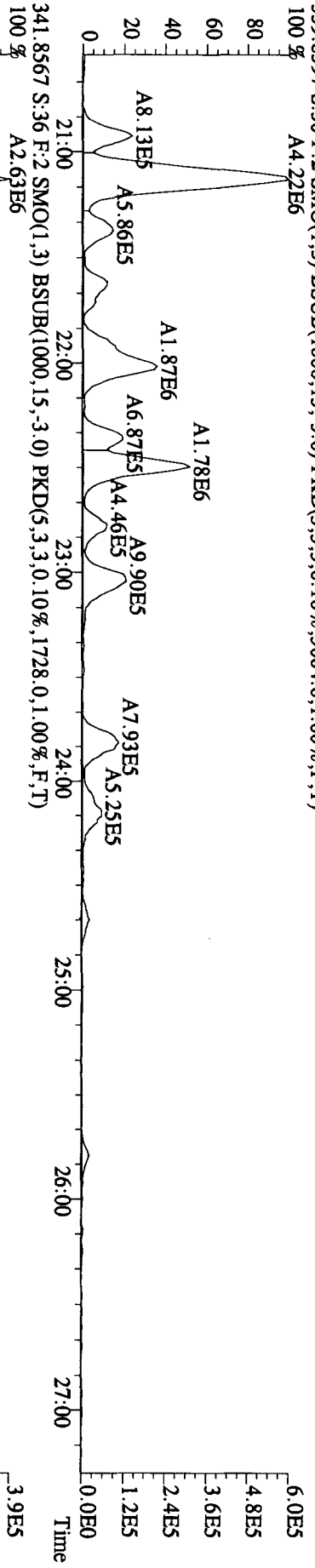
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst: df Date: 10-11-8

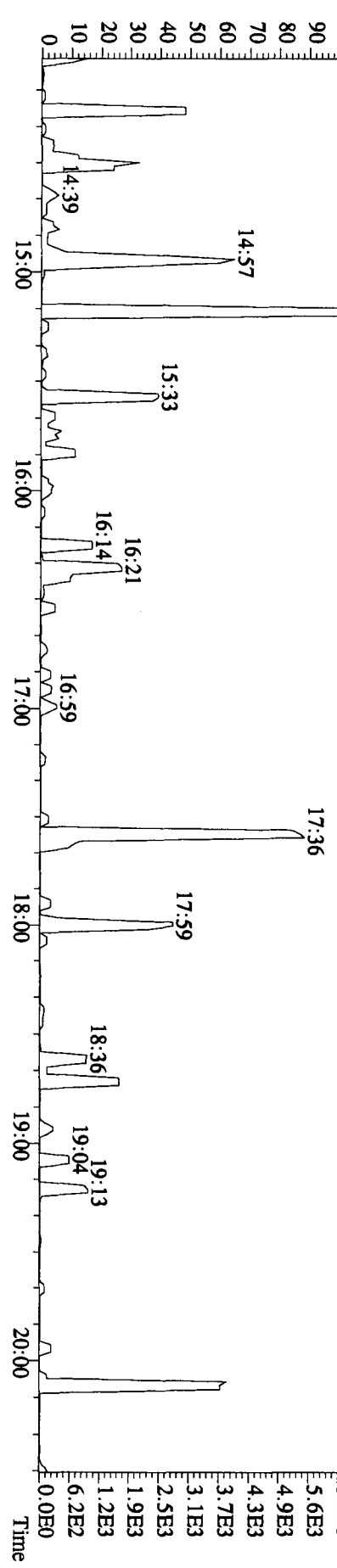
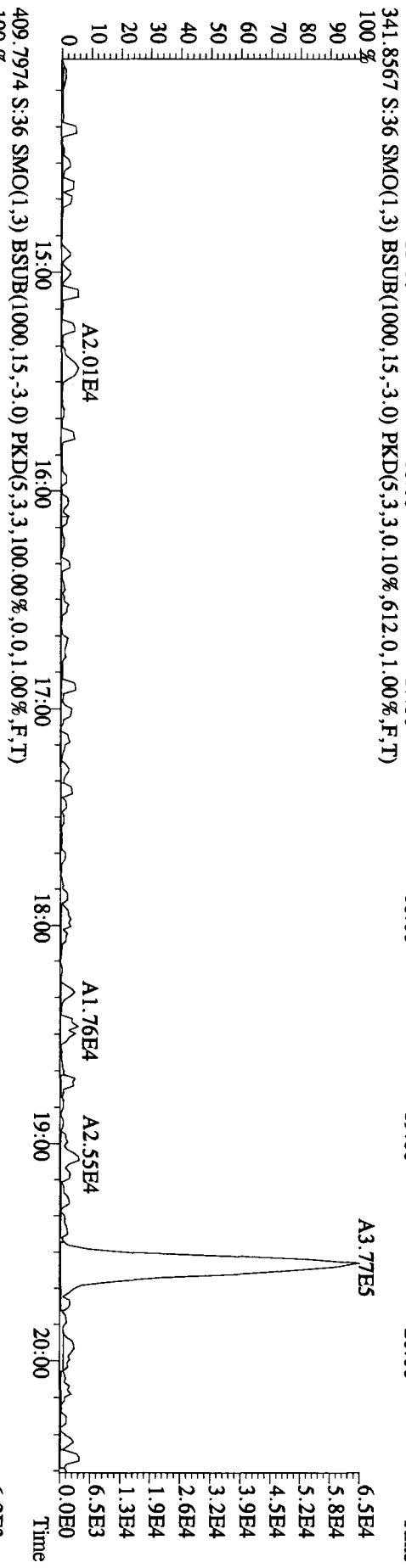
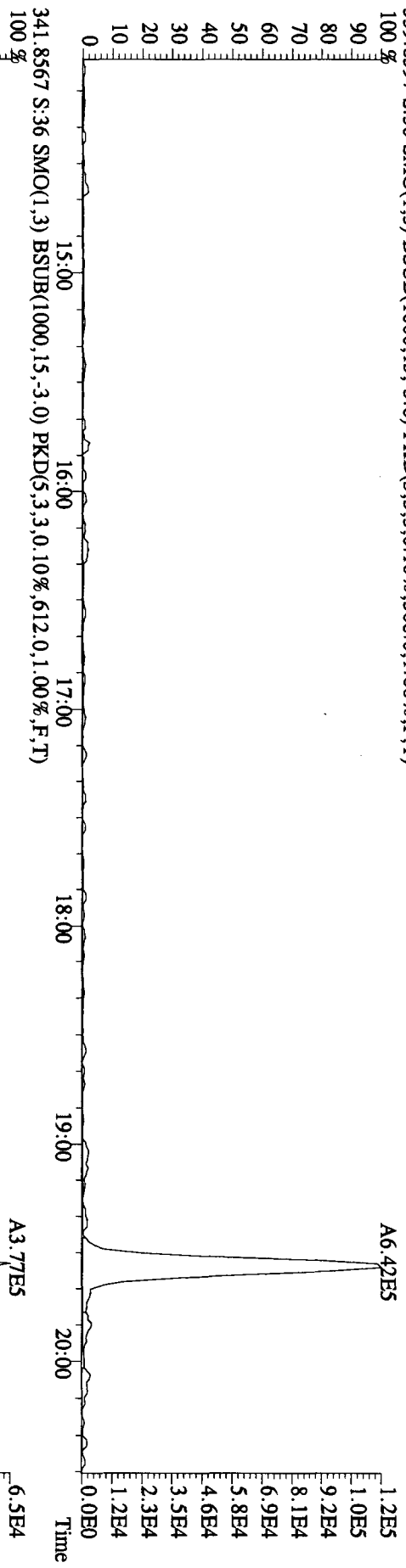
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES
327.8847 S:36 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,360.0,1.00%,F,T)



File: 02N010A1D5 #1-422 Acq: 3-NOV-2010 15:35:14 GC EI + Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA :G0J260480-13 Exp: DIOXINRES
 339.8597 S:36 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5064,0,1,00%,F,T)

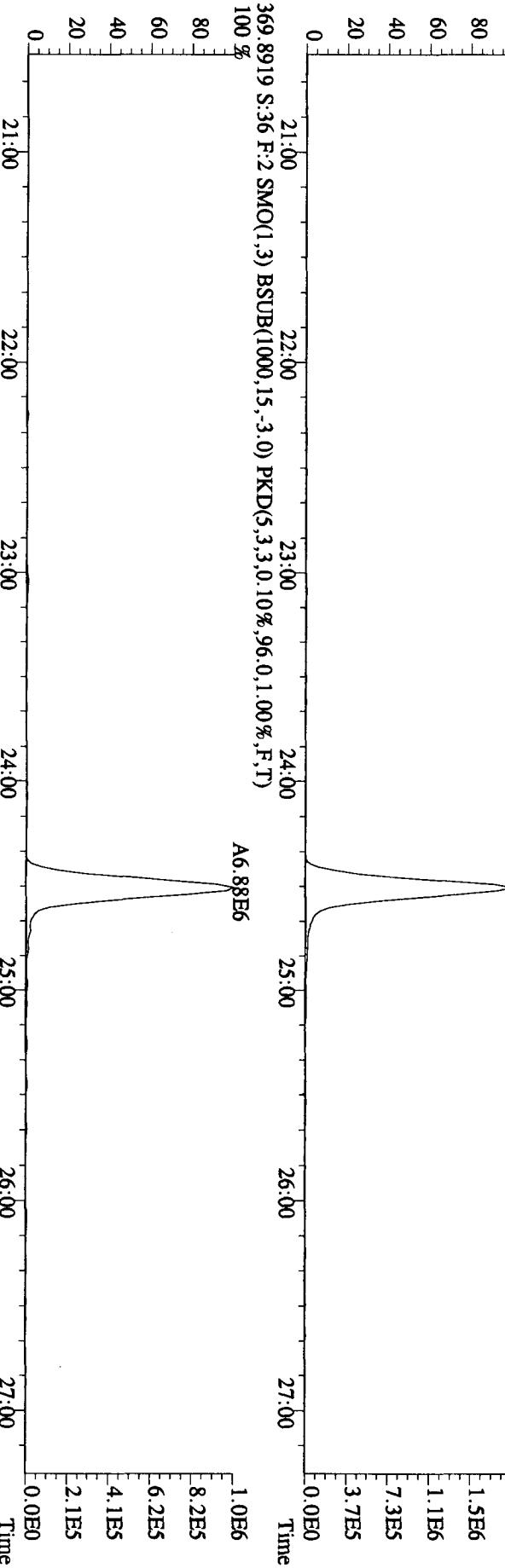
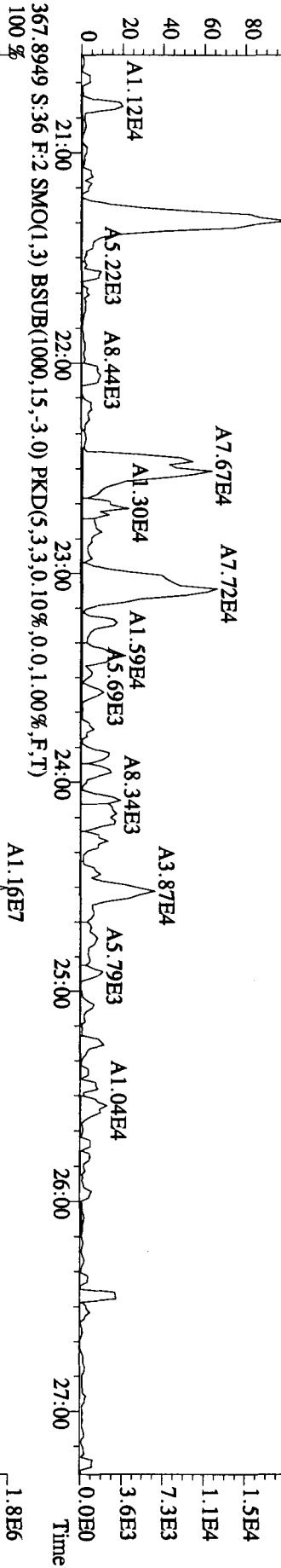
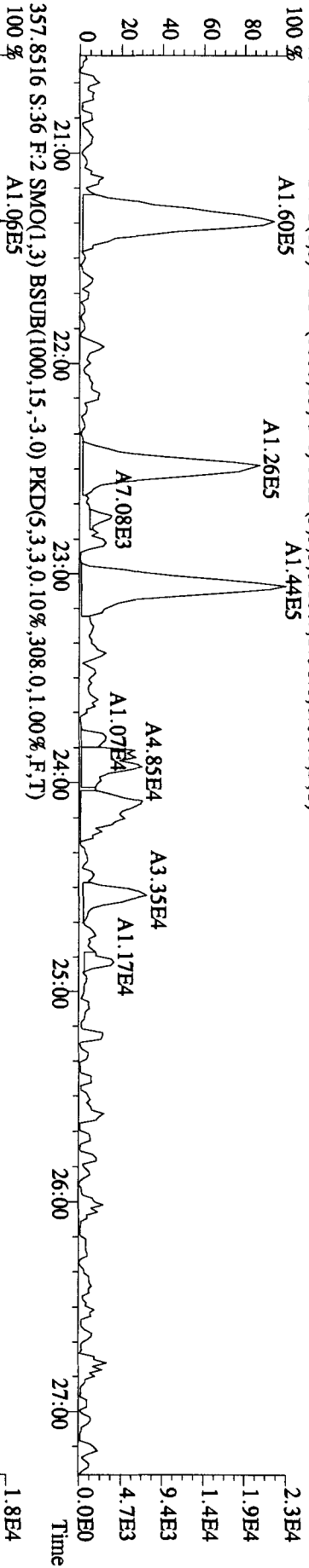


File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES
 339.8597 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,308.0,1.00%,F,T)

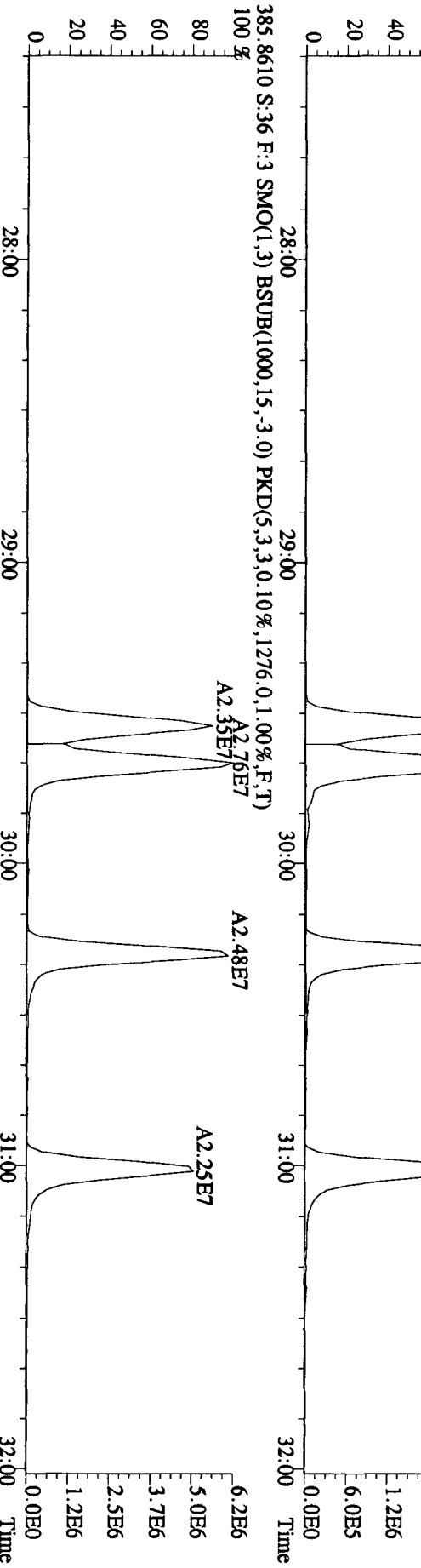
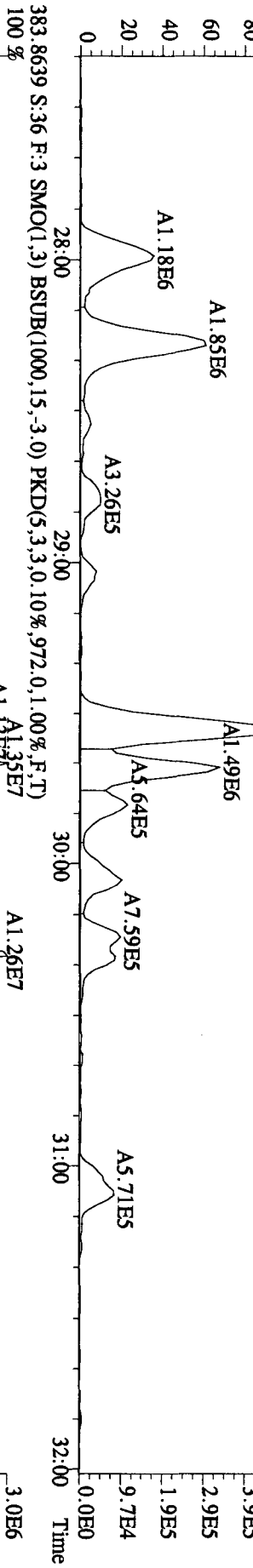
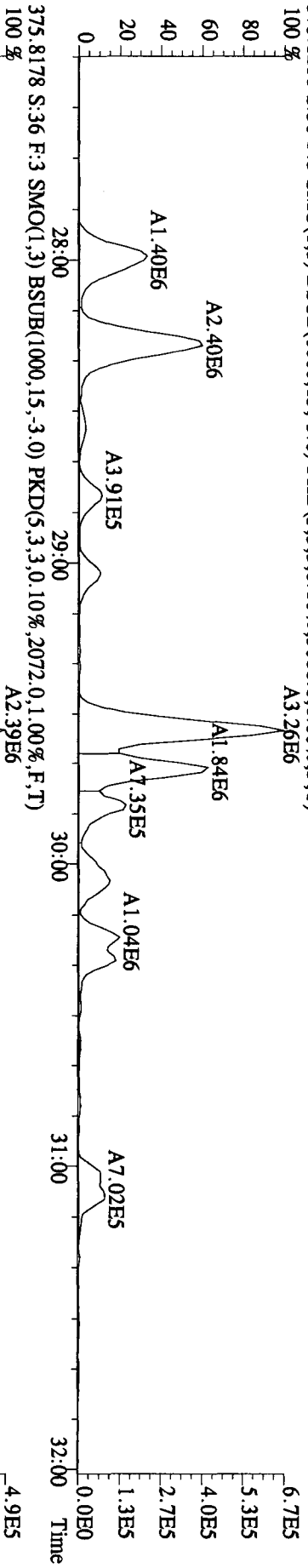


Sample#36 Text:L84N6-1-AA :G0J260480-13

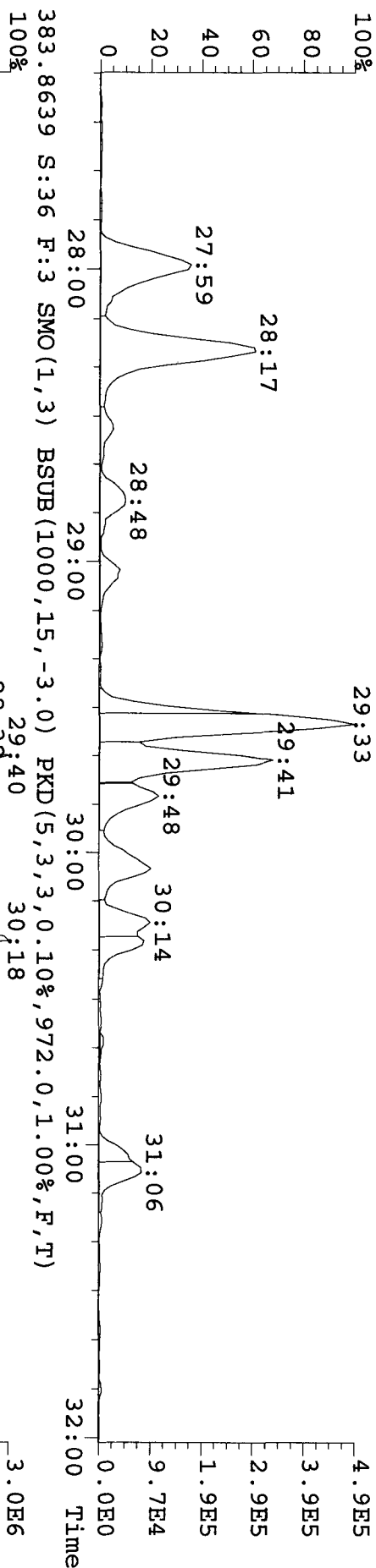
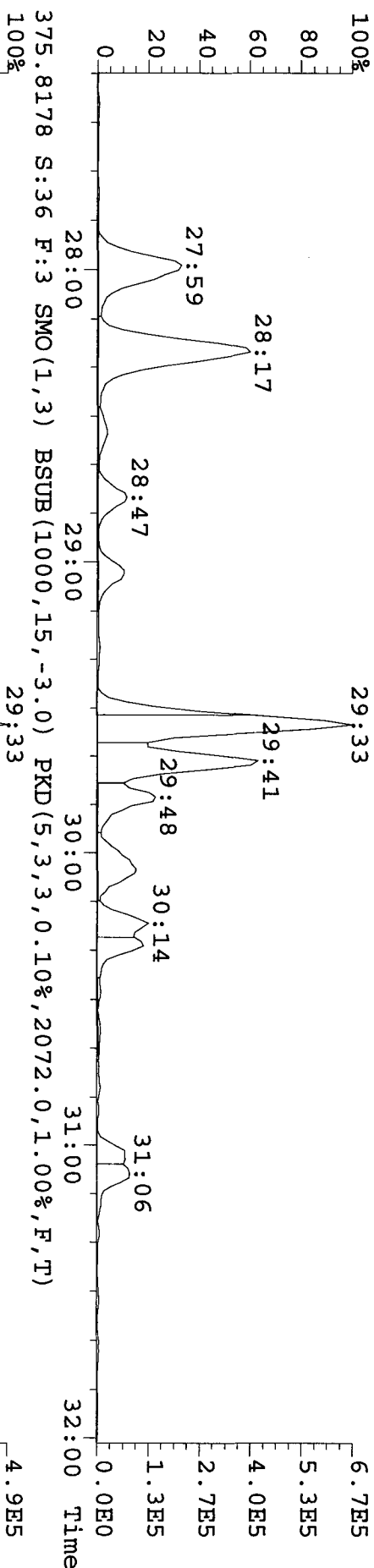
355.8546 S:36 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1796,0,1.00%,F,T)



File:02NO10A1D5 #1-302 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text:L84N6-1-AA :G0J260480-13 Exp:DIOXINRES
 373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3088,0,1,00%,F,T)
 100%



File: 02N010A1D5 #1-302 Acq: 3-NOV-2010 15:35:14 GC FI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES
 373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3088.0,1.00%,F,T)
 100%

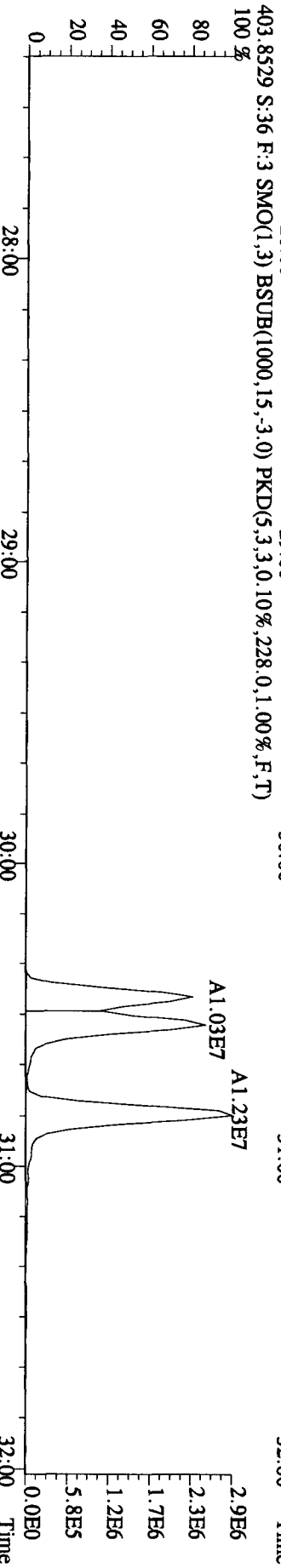
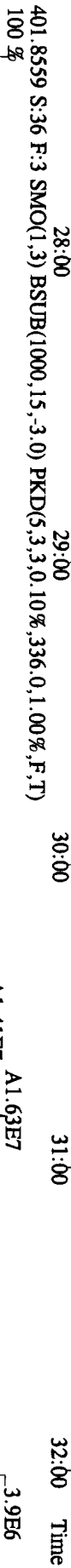
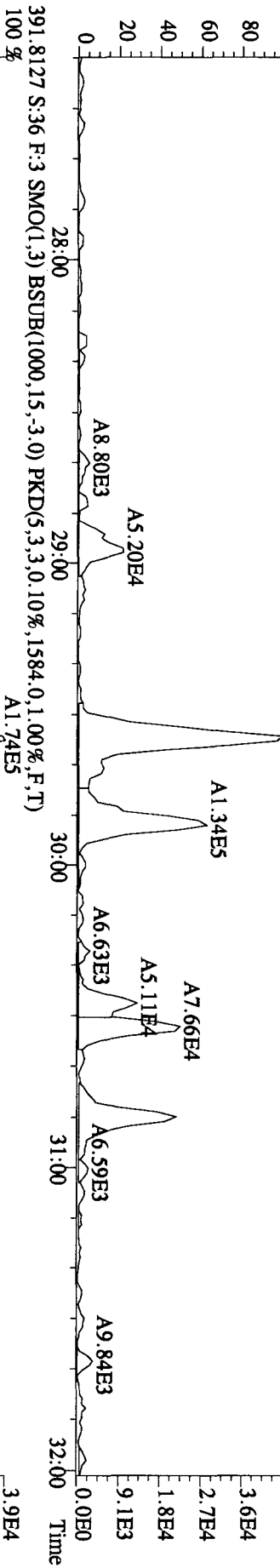


Manual Edit Codes

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

Analyst: CS Date: 11-8-10

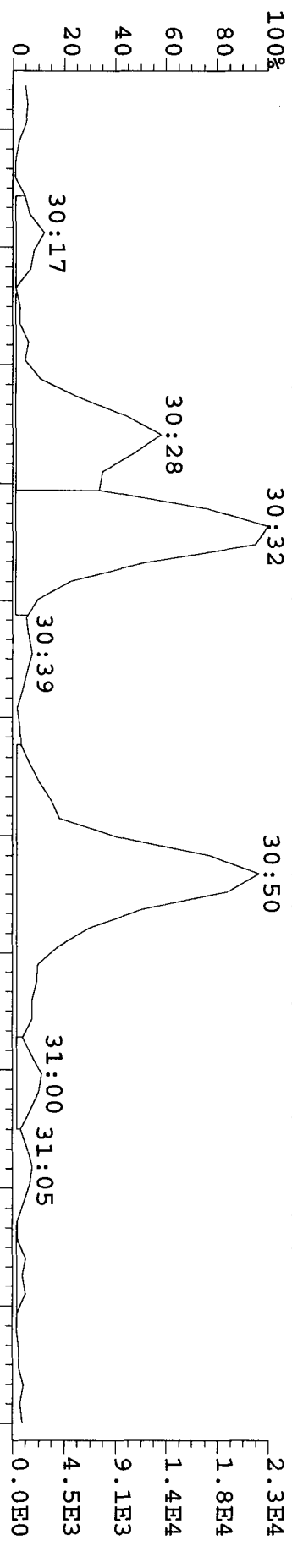
File:02NO10A1D5 #1-302 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text:L84N6-1-AA :G0J260480-13 Exp:DIOXINRES
 389.8157 S:36 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1160,0,1,00%,F,T)
 100%



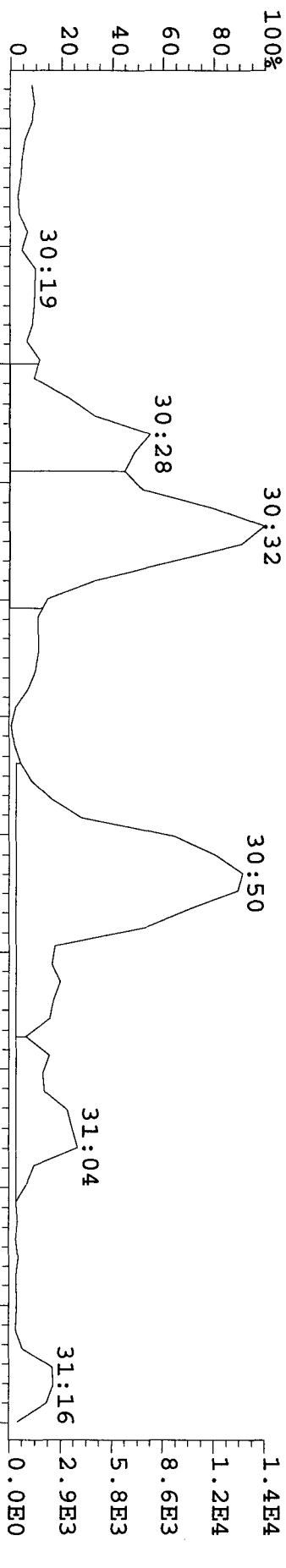
File: 02N010A1D5 #1-302 Acq: 3-NOV-2010 15:35:14 GC FI+ Voltage SIR 70SE

Sample#36 Text: L84N6-1-AA : G0J260480-13 Exp: DIOXINRES

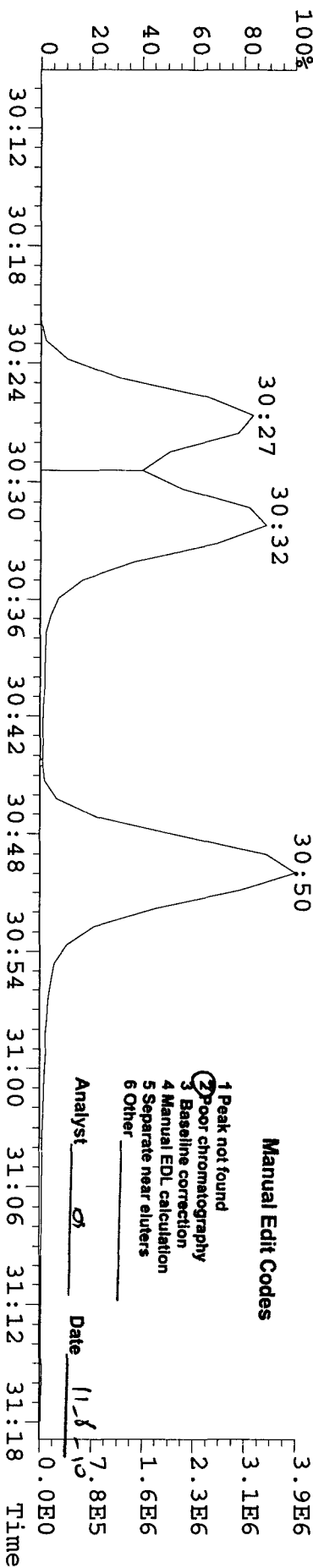
389.8157 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1160.0,1.00%,F,T)



391.8127 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)



401.8559 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,336.0,1.00%,F,T)

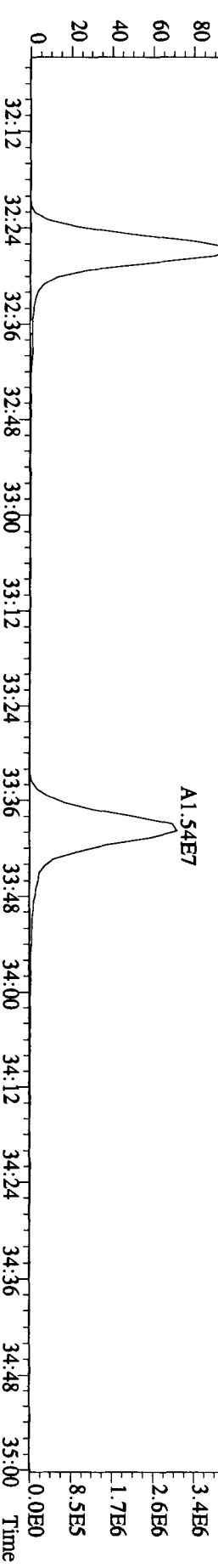
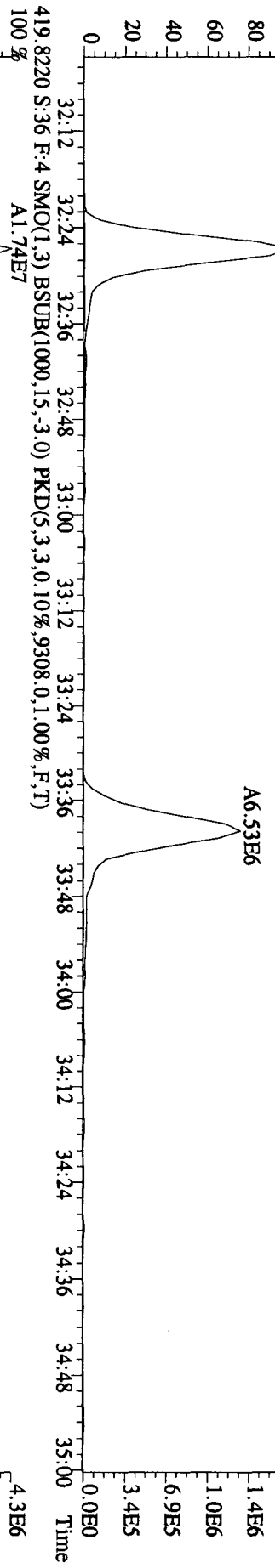
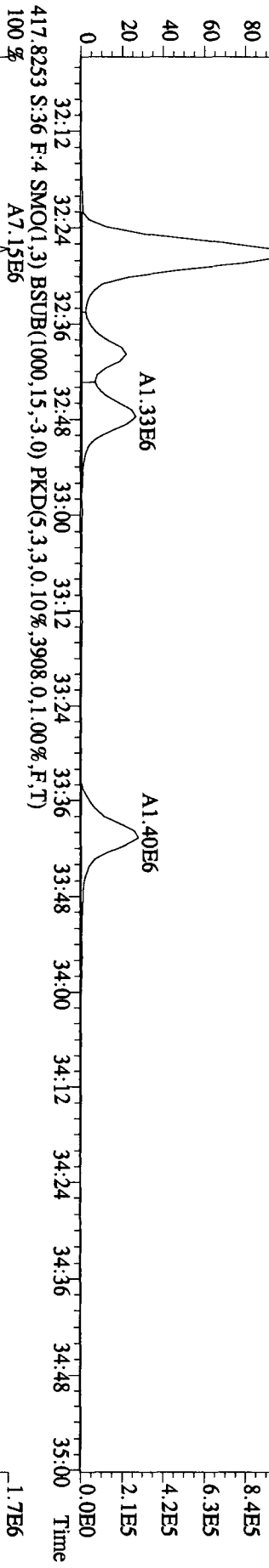
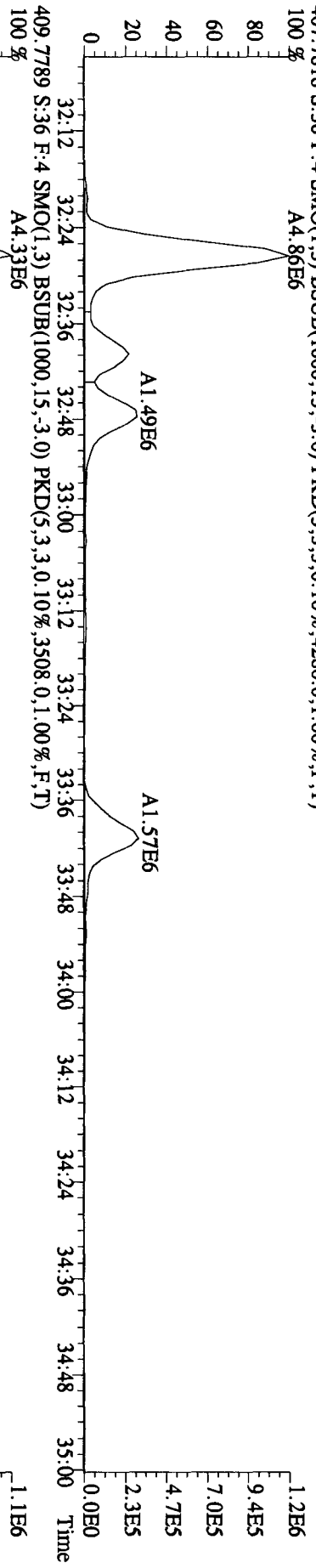


Manual Edit Codes

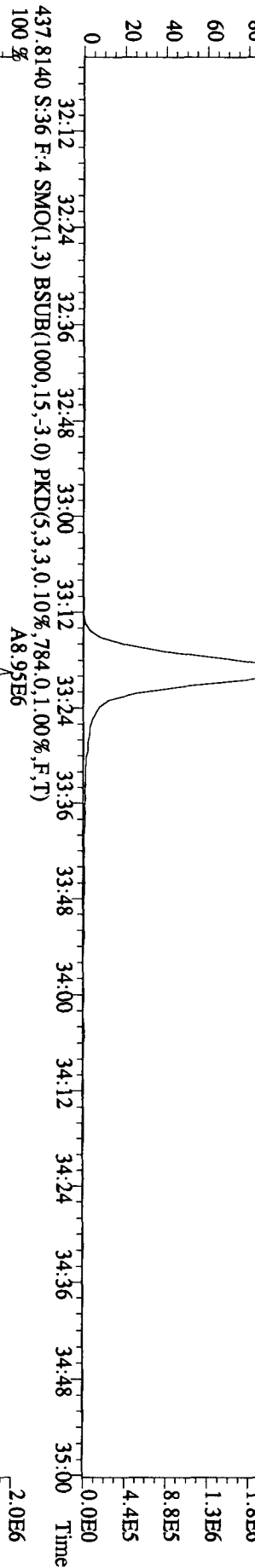
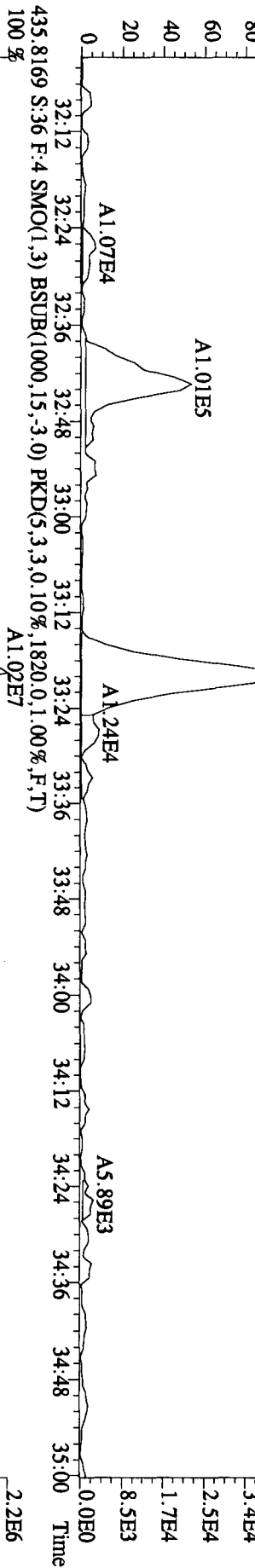
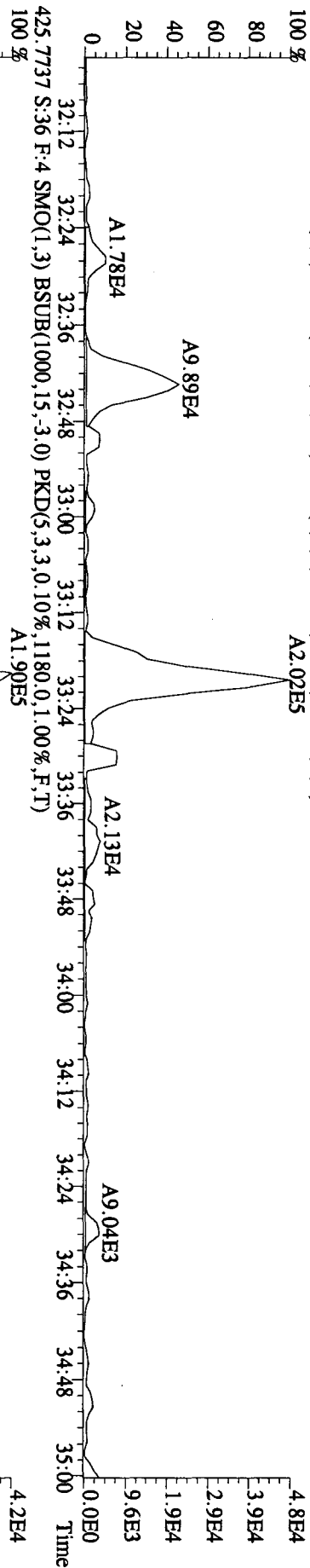
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst: CS Date: 11-8-10

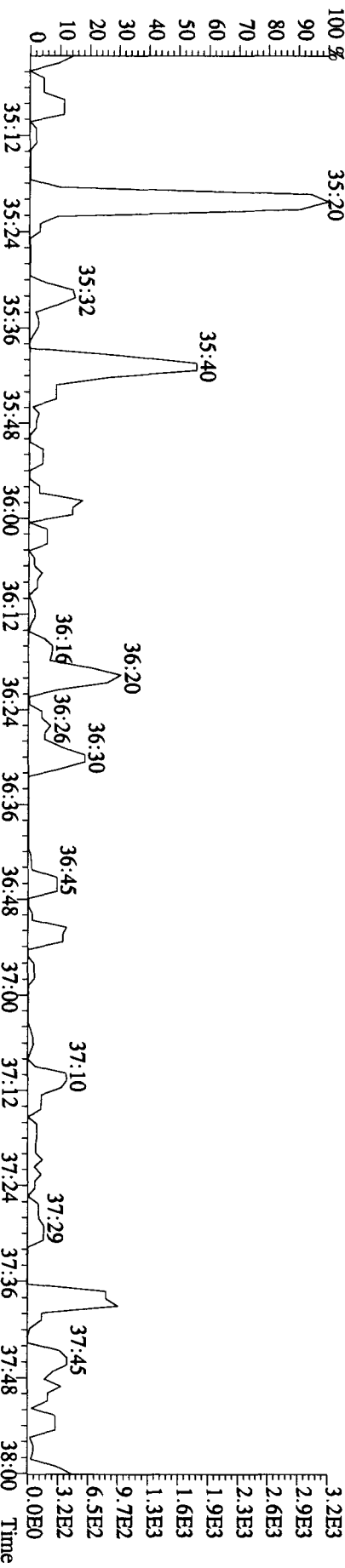
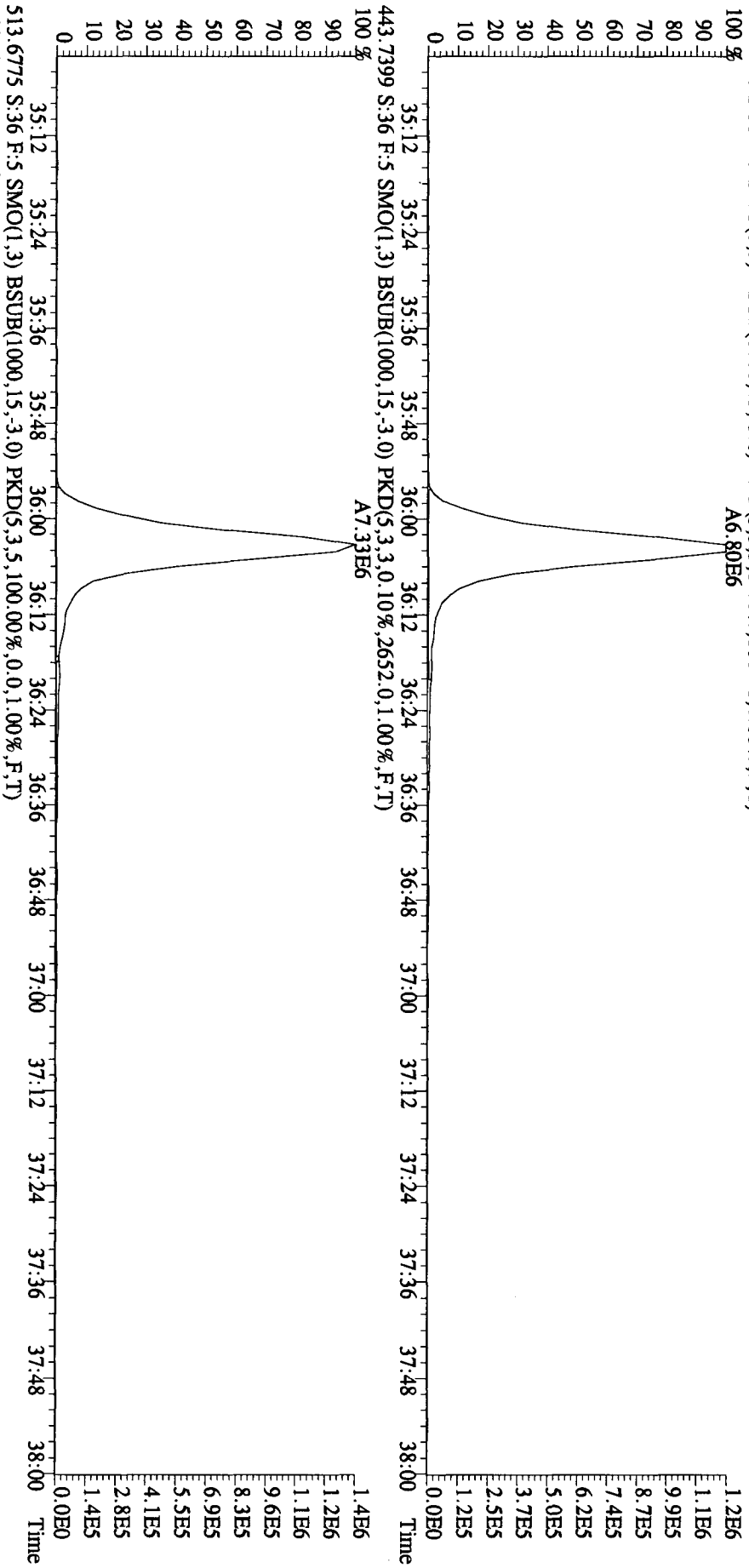
File: 02NO10A1D5 #1-202 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA :G0J260480-13 Exp: DIOXINRES
 407.7818 S:36 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4280,0,1,00%,F,T)



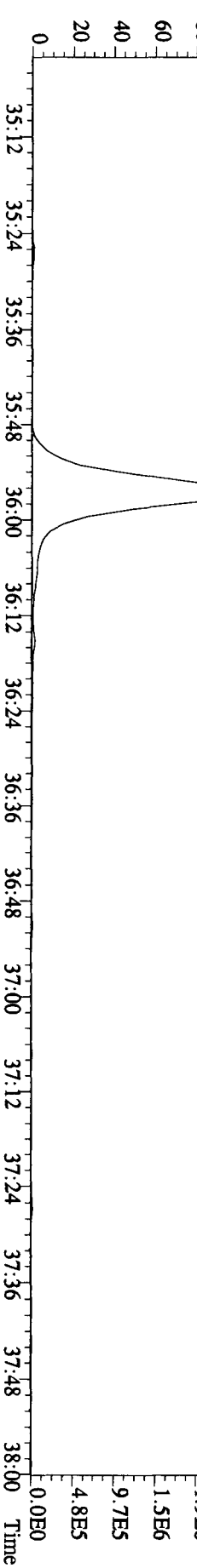
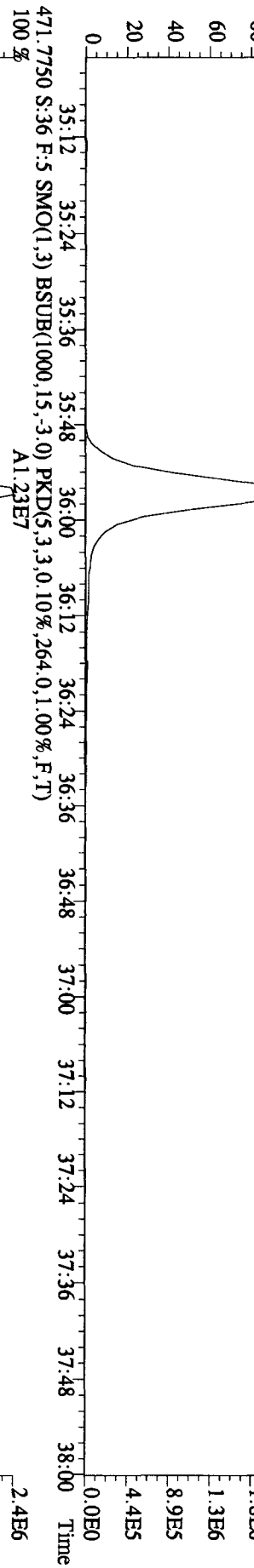
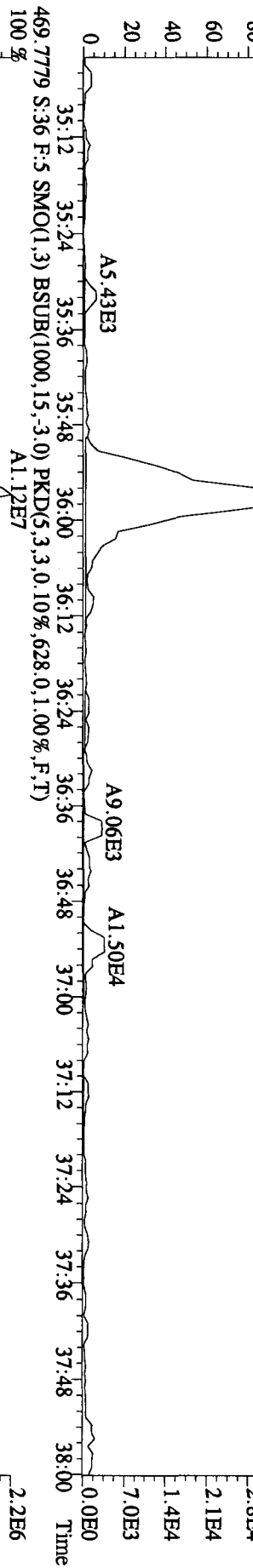
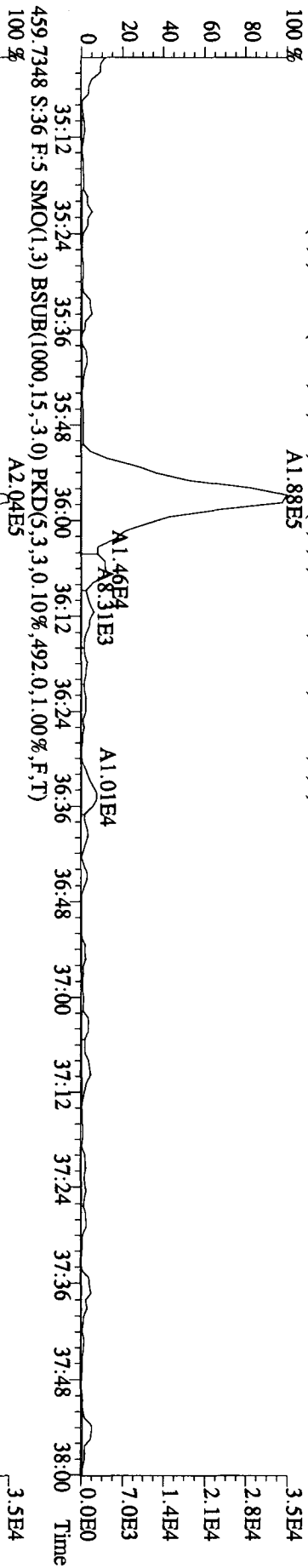
File: 02NO10A1D5 #1-202 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage S1R 70SE
 Sample#36 Text: L84N6-1-AA :G0J260480-13 Exp: DIOXINRES
 423.7766 S:3.6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T) A2.02E5



File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA :G0J260480-13 Exp: DIOXINRES
 441.7428 S:36 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1664,0,1,00%,F,T)
 100% A6.80E6

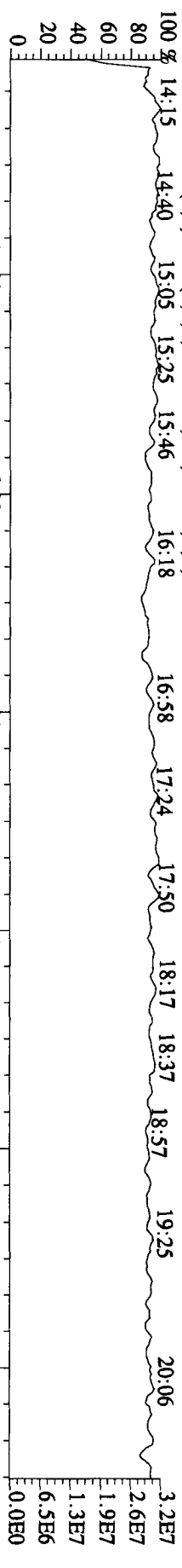


457.7377 S:36 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,392,0,1,00%,F,T)

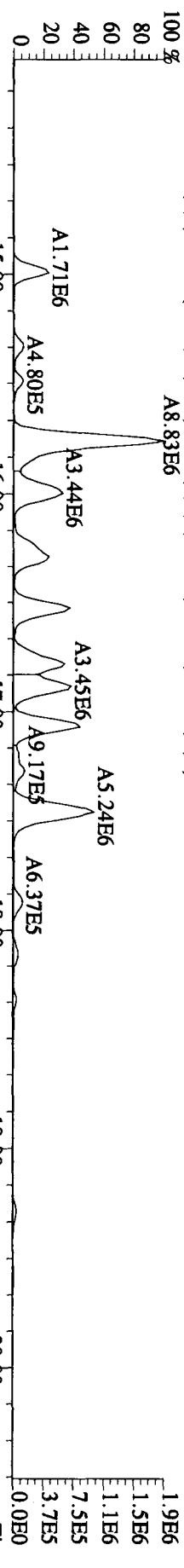


File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA : G01260480-13 Exp: DIOXINRES

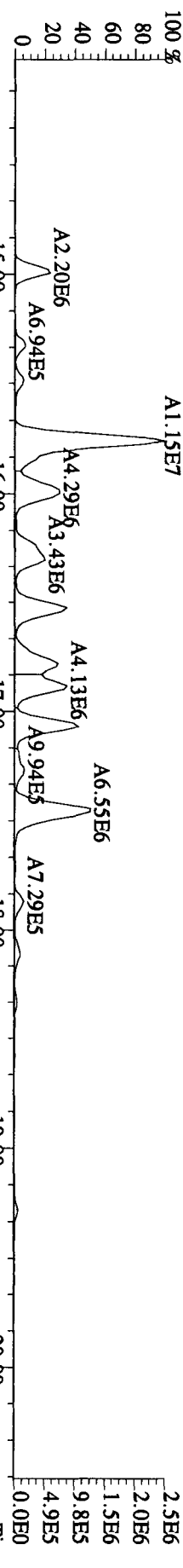
292.9825 S:36 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)
 100% 14:15 14:40 15:05 15:25 15:46 16:18



303.9016 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2972,0,1,00%,F,T)
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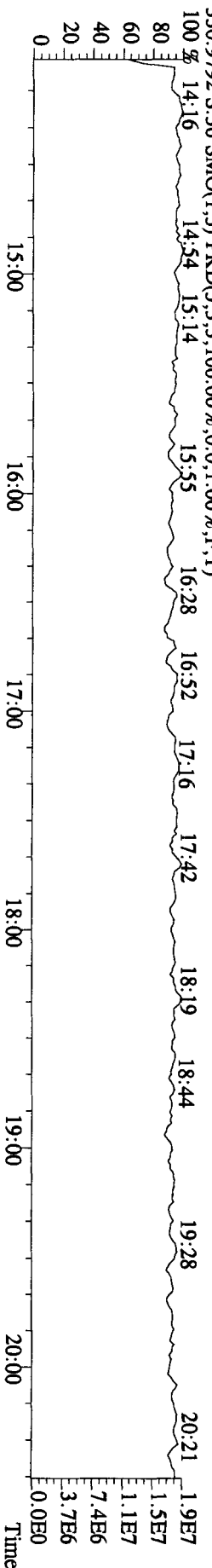
305.8987 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3048,0,1,00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00



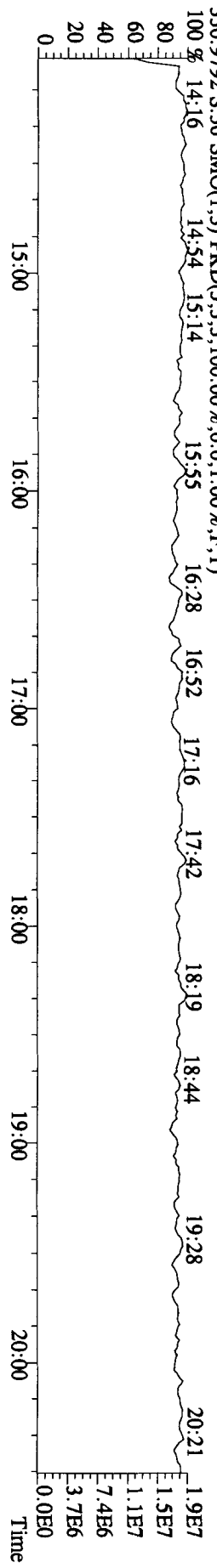
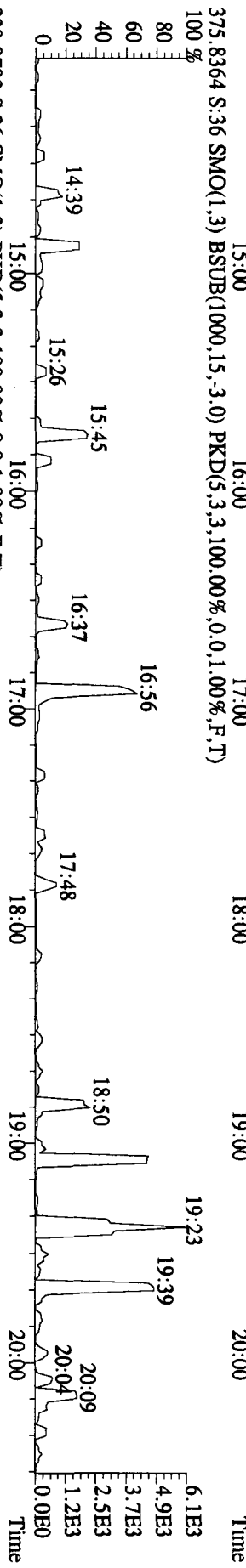
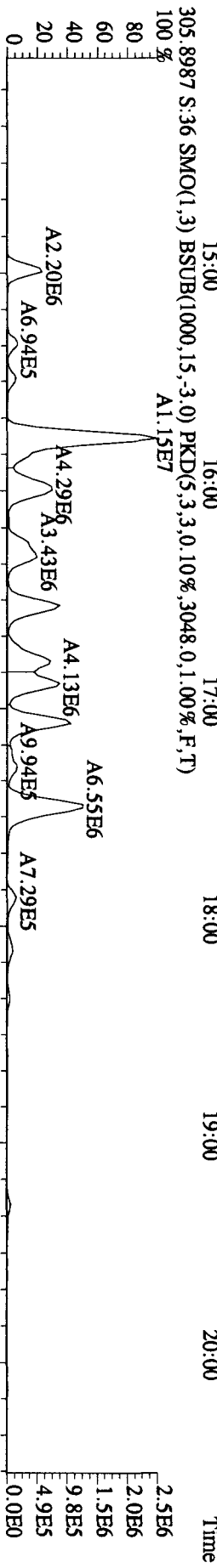
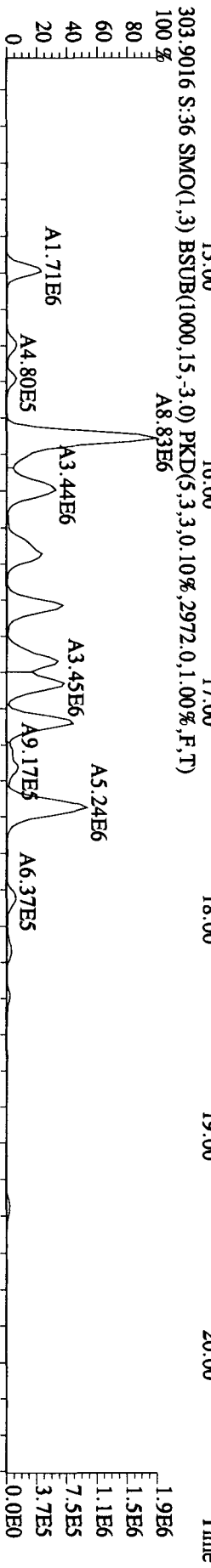
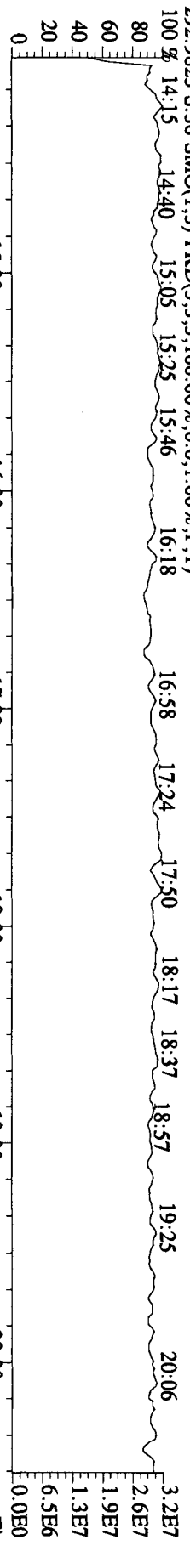
375.8364 S:36 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00



330.9792 S:36 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 14:16 14:54 15:14 15:55 16:28 16:52 17:16 17:42 18:19 18:44 19:28 20:21



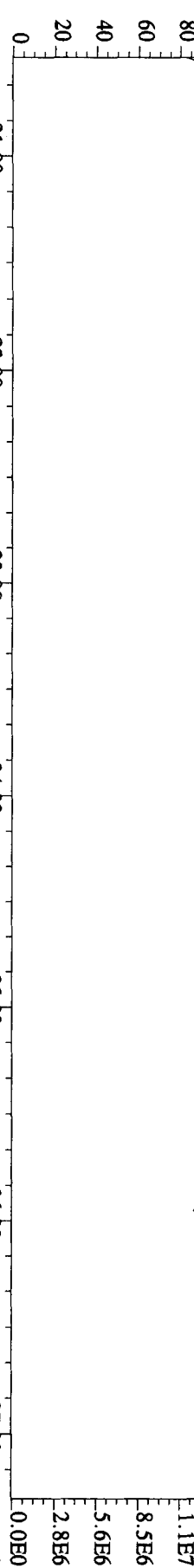
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text:L84N6-1-AA :G0J260480-13 Exp:DIOXINRES



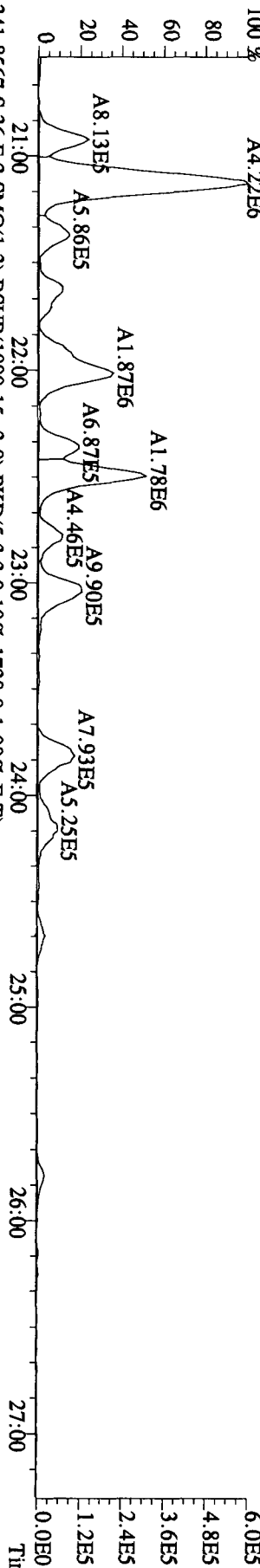
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE

Sample#36 Text:L84N6-1-AA :G0J260480-13 Exp:DIOXINRES

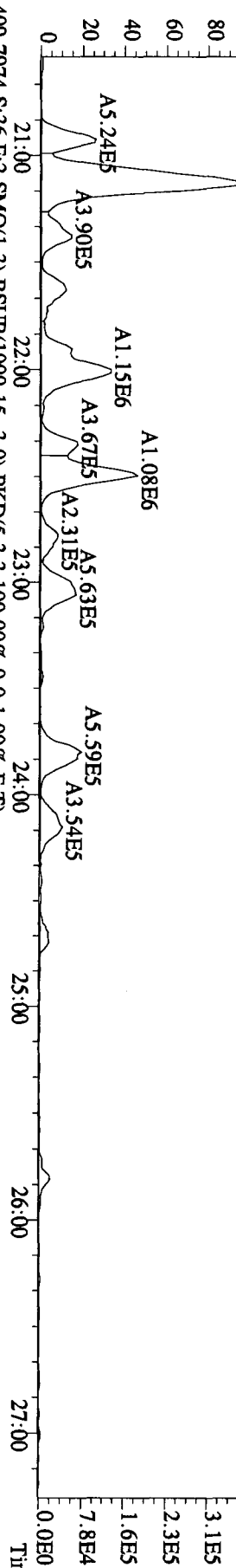
342.9792 S:36 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 1.4E7



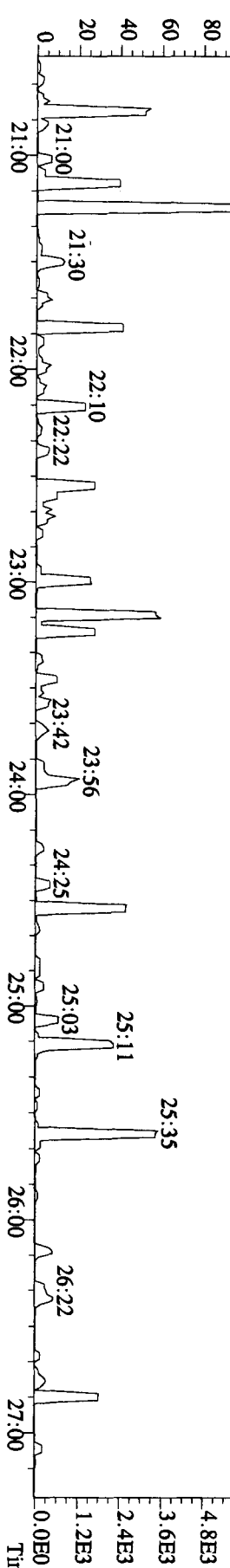
339.8597 S:36 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5064,0,1.00%,F,T) 6.0E5



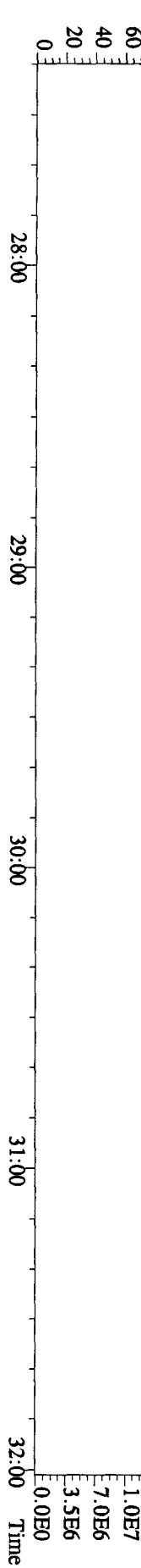
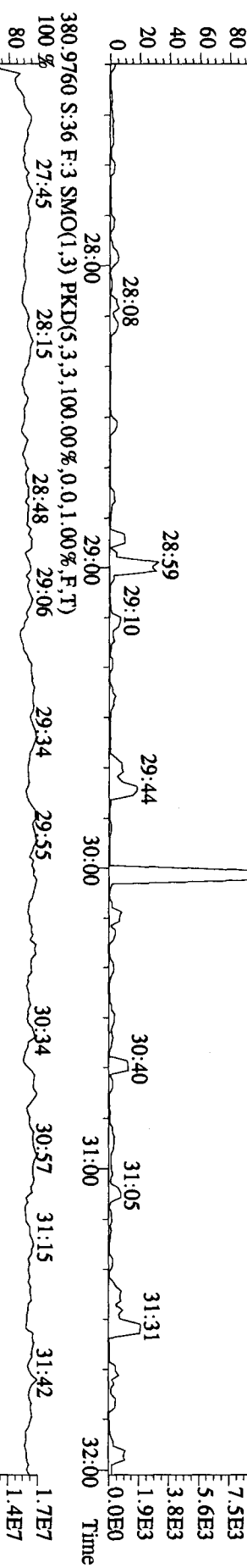
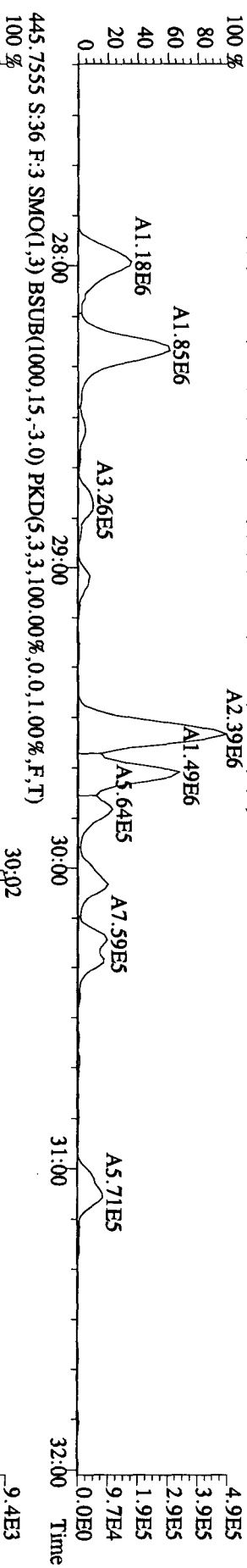
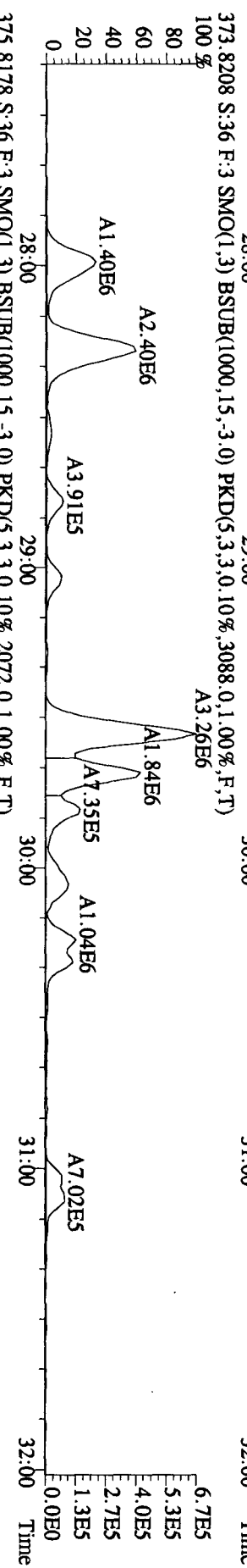
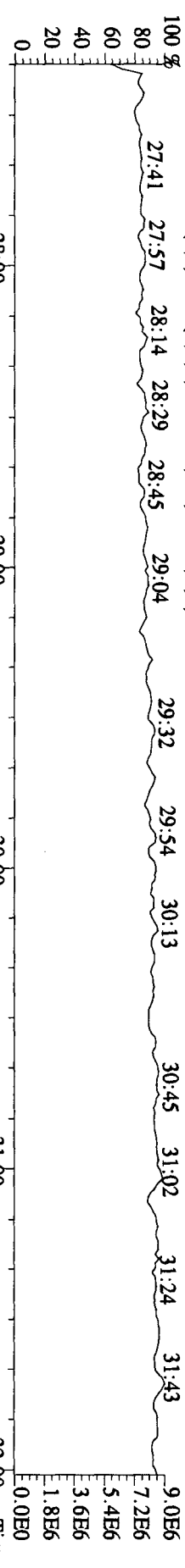
341.8567 S:36 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1728,0,1.00%,F,T) 3.9E5



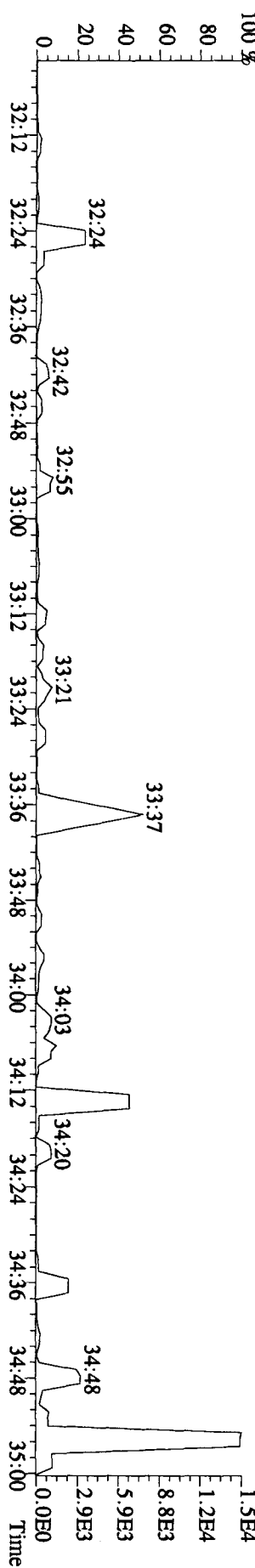
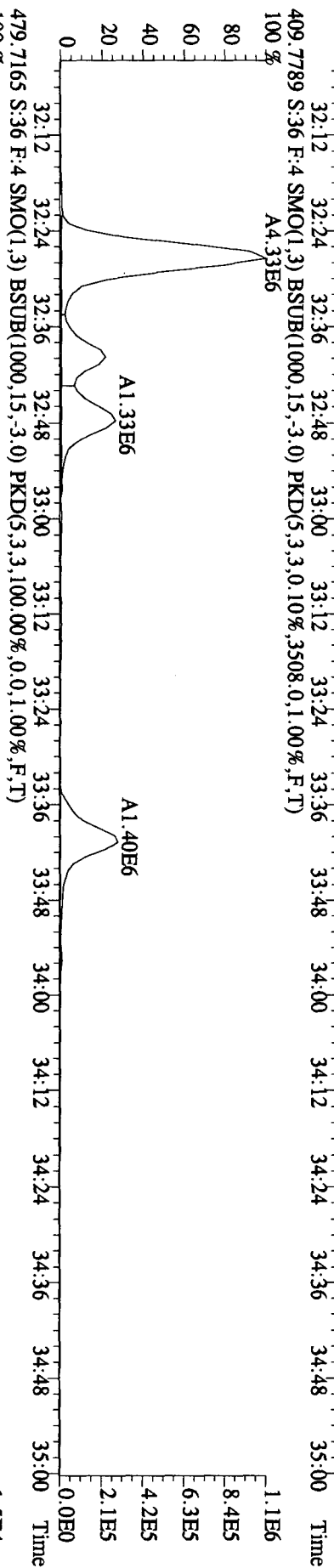
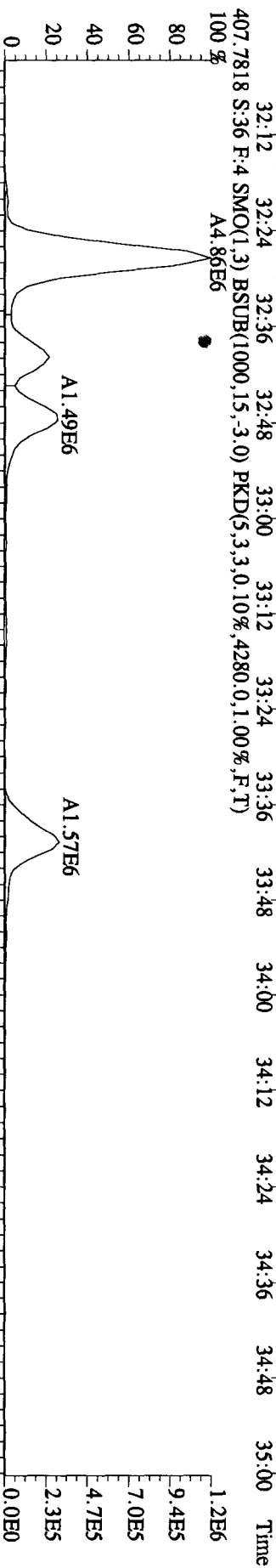
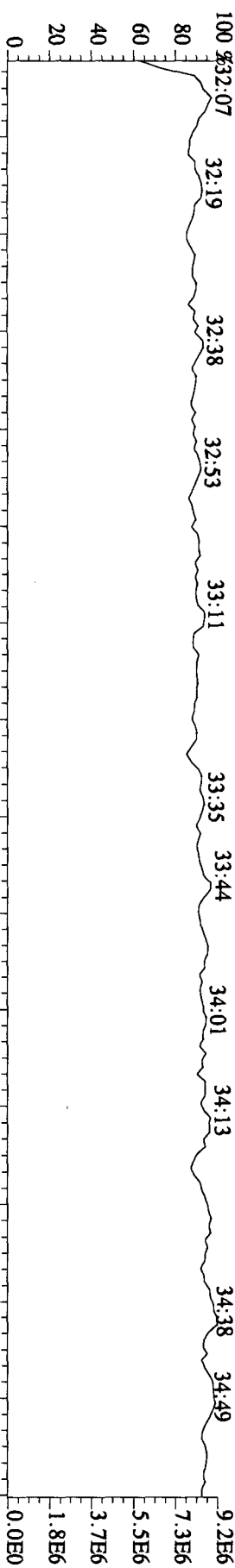
409.7974 S:36 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 6.0E3



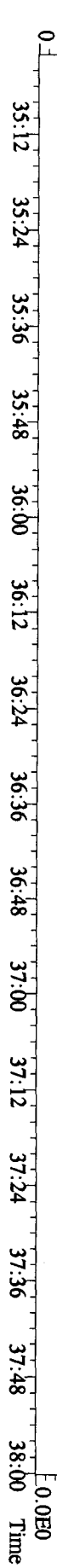
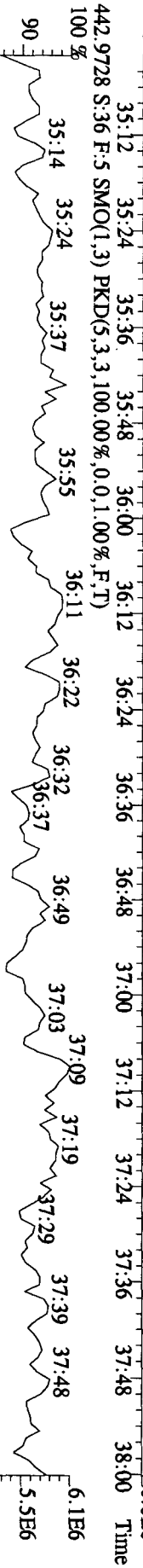
File: 02N010A1D5 #1-302 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage S1R 70SE
 Sample#36 Text: L84N6-1-AA :G01260480-13 Exp: DIOXINRES
 392.9760 S:3.6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 373.8208 S:3.6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3088,0.1,0.00%,F,T)
 375.8178 S:3.6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2072,0.1,0.00%,F,T)
 445.7555 S:3.6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:02NO10A1D5 #1-202 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text:L84N6-1-AA :G01260480-13 Exp:DIOXINRES



File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 15:35:14 GC EI+ Voltage SIR 70SE
 Sample#36 Text: L84N6-1-AA :G0J260480-13 Exp: DIOXINRES
 454.9728 S:3.6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

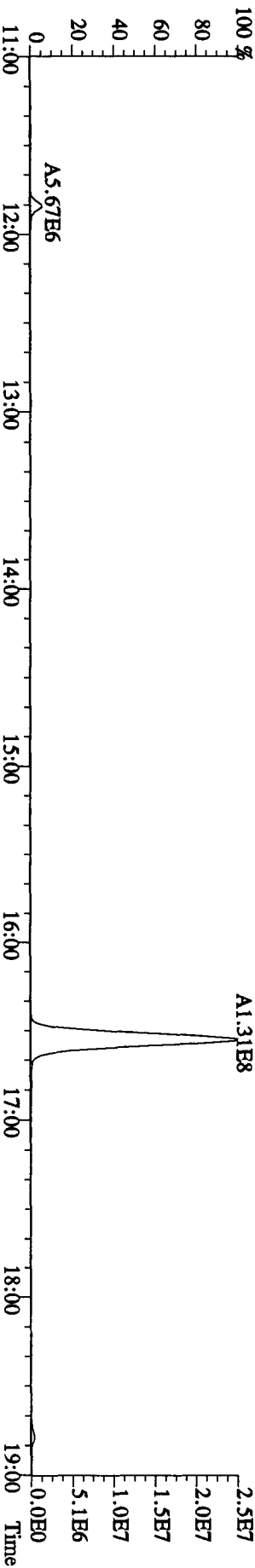
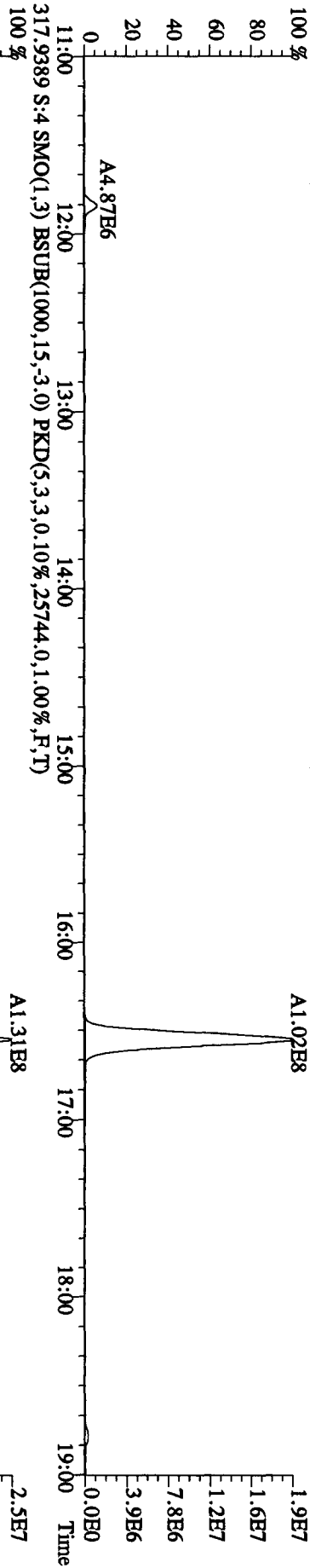
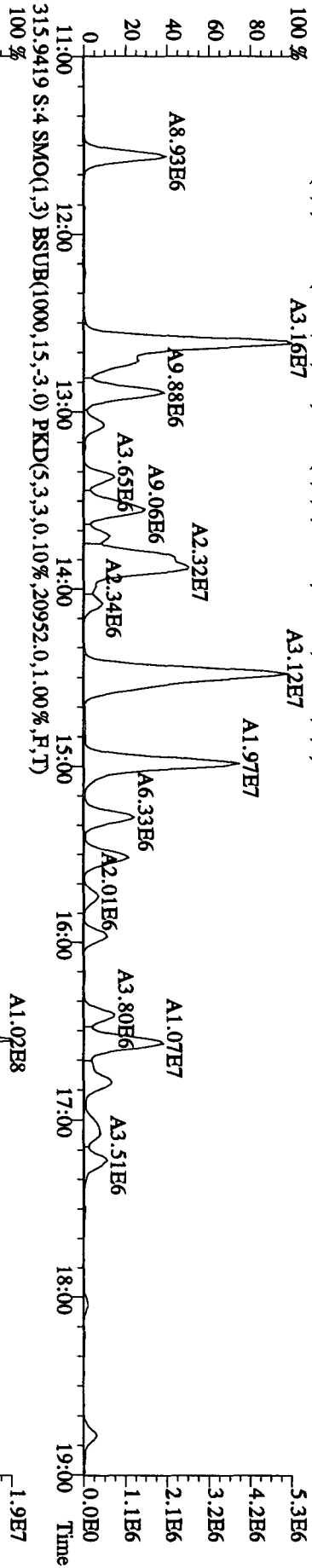
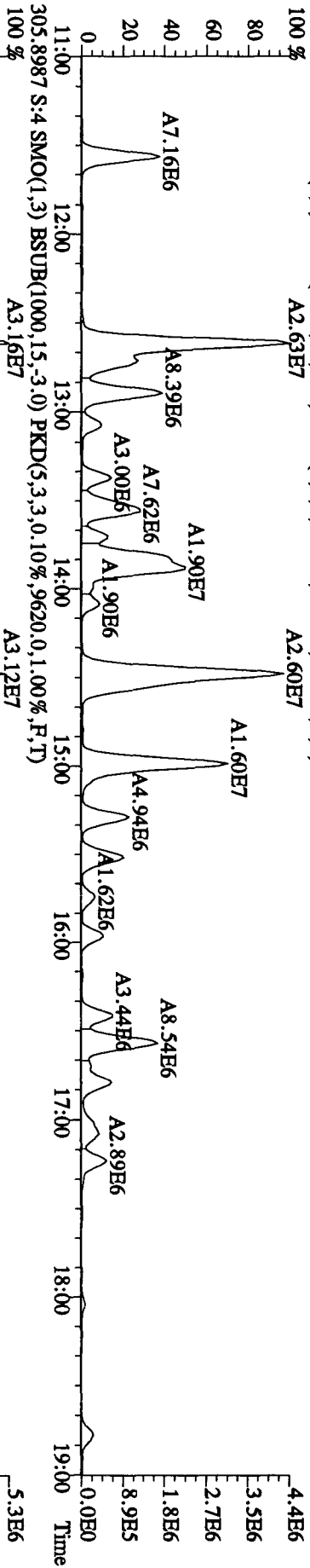


Run text: L84N6-1-AA Sample text: L84N6-1-AA :G0J260480-13
 Run #8 Filename: 08NO105D2 S: 4 I: 1 Results: 08NO105D2DB225AIR
 Acquired: 8-NOV-10 12:41:05 Processed: 9-NOV-10 11:30:03
 Run: 08NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

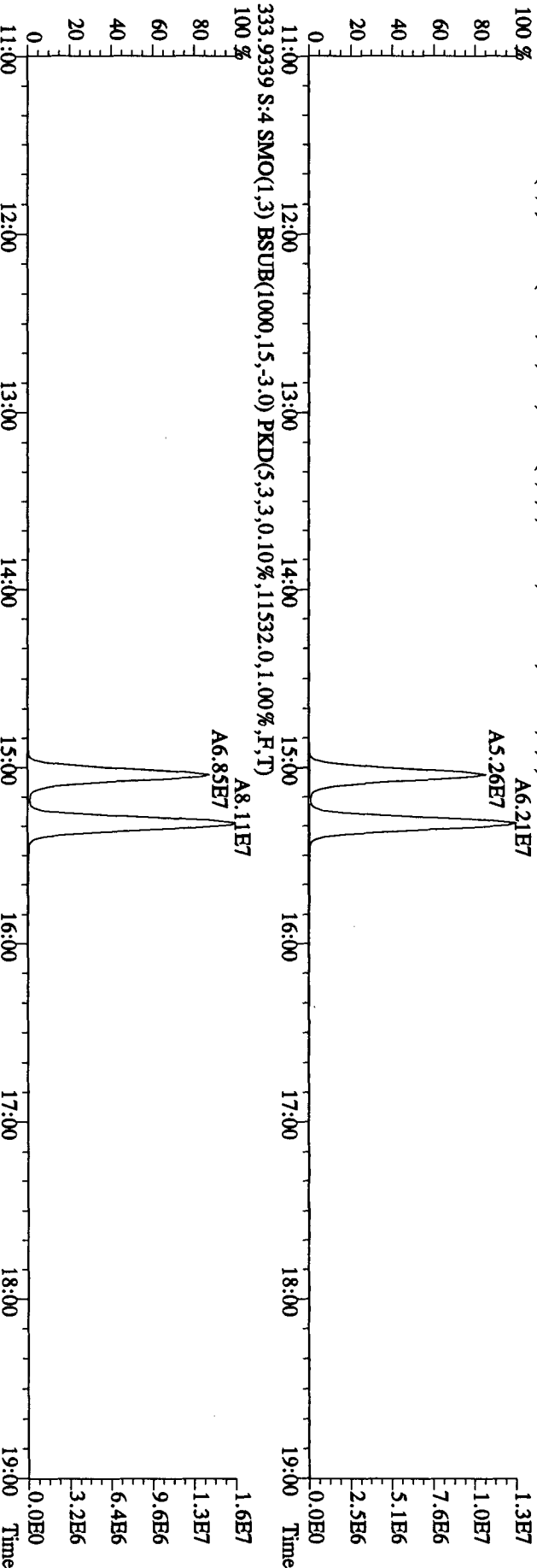
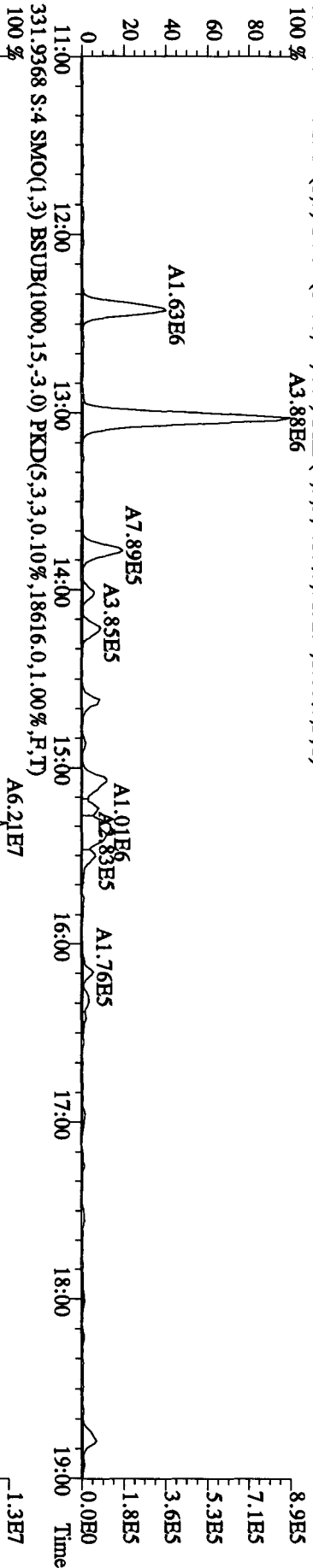
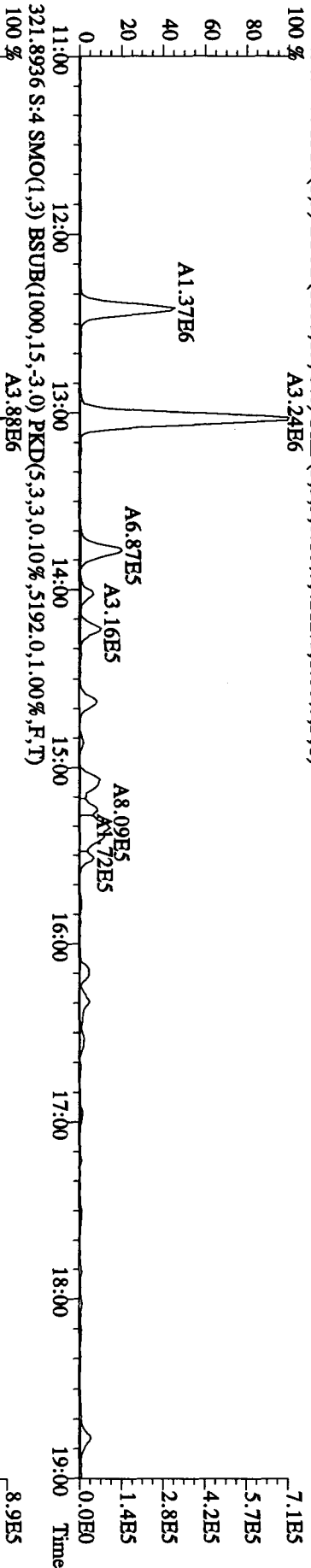
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	143244500	0.77 y	15:19	-	154.25	-	-	n
13C-2,3,7,8-TCDF	233115000	0.78 y	16:33	1.64	3978.71	11.90	99.5	n
2,3,7,8-TCDF	19244920	0.80 y	16:34	1.06	311.68	3.64	-	n
13C-2,3,7,8-TCDD	121111600	0.77 y	15:02	0.96	3533.44	13.14	88.3	n
2,3,7,8-TCDD	946886	0.63 n	15:04	1.24	25.25	3.68	-	n
37C1-2,3,7,8-TCDD	63874800	1.00 y	15:03	1.54	1373.64	4.53	85.9	n

OS
11-9-10

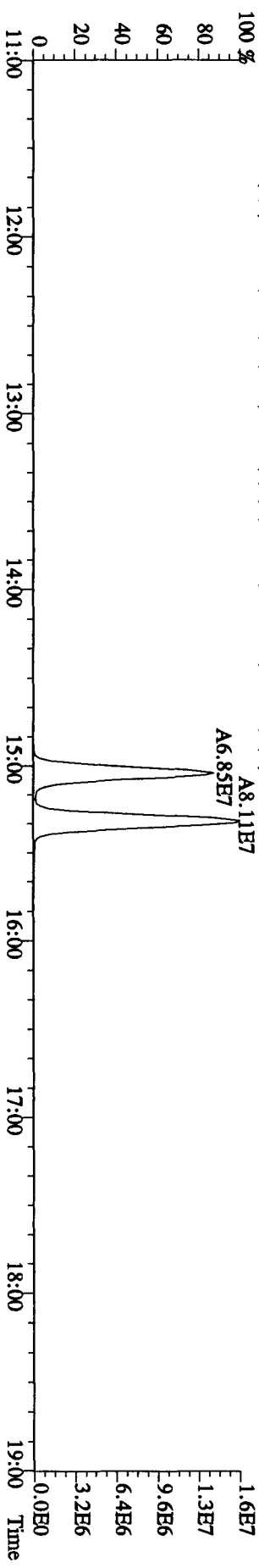
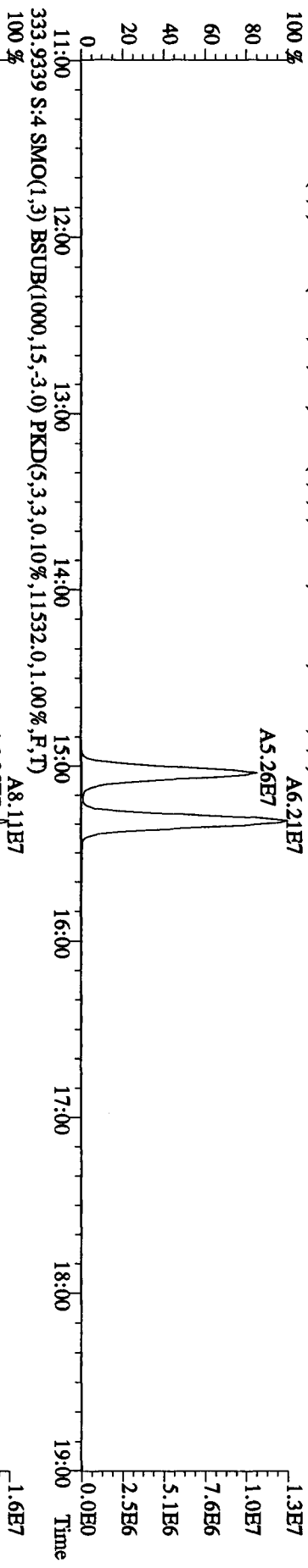
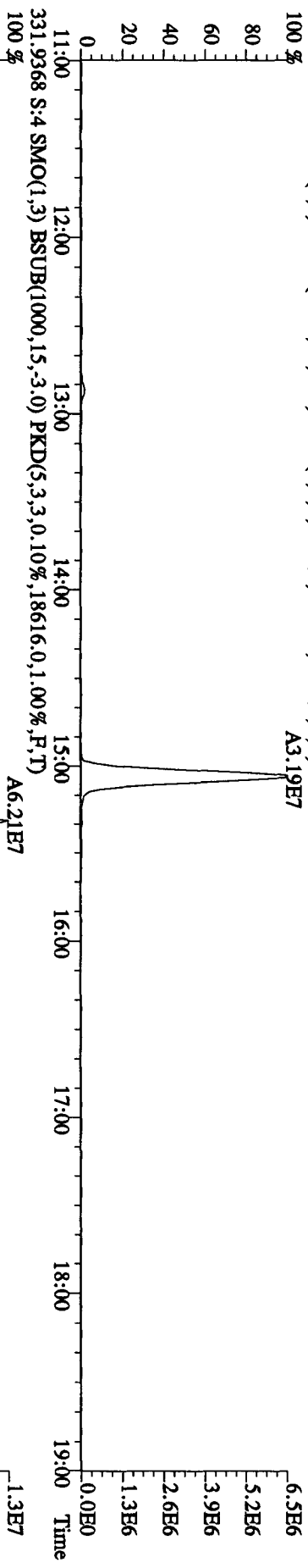
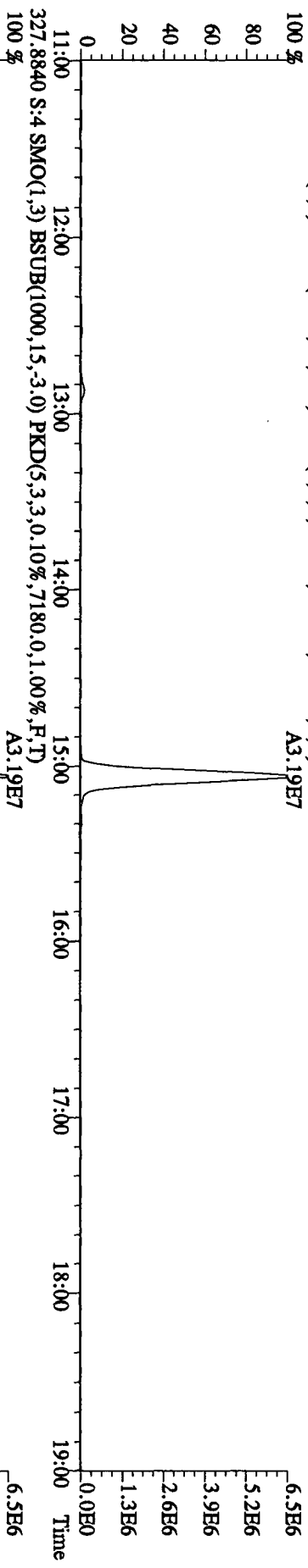
File:08NOI05D2 #1-1242 Acq: 8-NOV-2010 12:41:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:L84N6-1-AA :G0J260480-13 Exp:DB225RES
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4760.0,1.00%,F,T)
 100 %



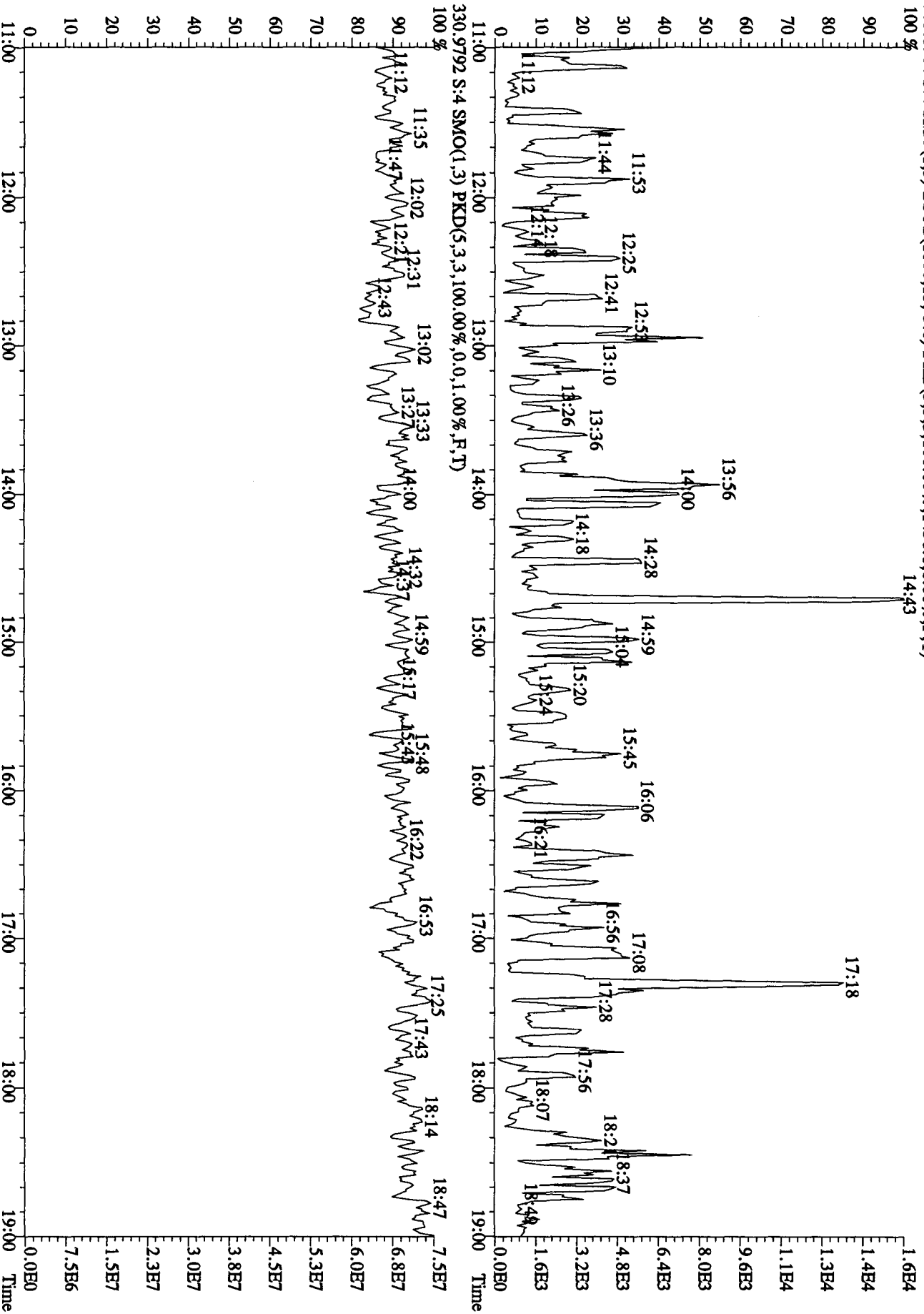
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:41:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:L84N6-1-AA :G01260480-13 Exp:DB225RES
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4212.0,1.00%,F,T)
 100%



File:08NOI0105D2 #1-1242 Acq: 8-NOV-2010 12:41:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:L84N6-1-AA :G0J260480-13 Exp:DB225RES
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7180.0,1.00%,F,T)
 100 %



File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:41:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:L84N6-1-AA :G0J260480-13 Exp:DB225RES
 375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1436.0,1.00%,F,T)



Run text: L84Q3-1-AA Sample text: L84Q3-1-AA :G0J260480-17
 Run #15 Filename: 02NO10A1D5 S: 37 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 16:18:03 Processed: 3-NOV-10 19:37:59
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

of
11-8-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	37720200	0.82 y	17:55	-	44.120	-	-	n
13C-2,3,7,8-TCDF	60228000	0.80 y	17:24	1.57	4056.412	0.348	101.4	n
2,3,7,8-TCDF	112607	0.59 n	17:26	0.88	8.523 J,Q	1.932	-	n
Total TCDF	464898	0.13 n	14:47	0.88	35.186 21.78 ✓	1.932	-	n
13C-2,3,7,8-TCDD	29849300	0.83 y	18:07	0.99	3199.518	3.036	80.0	n
2,3,7,8-TCDD	*	* n	NotFnd	0.94	-	1.512	-	n
Total TCDD	279247	1.96 n	14:06	0.94	39.803	1.512 1.517 1.75 MW	116.2	n
37Cl-2,3,7,8-TCDD	16330600	1.00 y	18:08	1.18	1859.275	1.449	116.2	n
13C-1,2,3,7,8-PeCDF	34973400	1.71 y	22:28	1.15	3212.642	0.693	80.3	n
1,2,3,7,8-PeCDF	20046	2.72 n	22:30	1.03	2.228	6.115	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.95	-	6.646	-	n
Total F2 PeCDF	80143	1.71 y	21:10	0.99	9.184	6.369	-	n
Total F1 PeCDF	117079	0.84 n	14:42	0.99	13.552	1.315 6.96 ✓	-	n
13C-1,2,3,7,8-PeCDD	17406190	1.77 y	24:31	0.67	2767.306	0.243	69.2	n
1,2,3,7,8-PeCDD	11826	1.44 y	24:35	0.96	2.828	5.434	-	n
Total PeCDD	132027	1.15 n	21:11	0.96	31.572	5.434	-	n
13C-1,2,3,7,8,9-HxCDD	29594400	1.30 y	30:50	-	44.024	-	-	n
13C-1,2,3,4,7,8-HxCDF	35572100	0.47 y	29:33	1.15	4187.127	4.220	104.7	n
1,2,3,4,7,8-HxCDF	101648	1.48 n	29:33	1.22	9.376 J,Q	2.897	-	n
1,2,3,6,7,8-HxCDF	45739	1.21 y	29:43	1.41	3.655	2.510	-	n
2,3,4,6,7,8-HxCDF	39346	1.23 y	30:17	1.23	^{5/2.7} 3.591	2.866	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.08	-	3.259	-	n
Total HxCDF	319065	1.06 y	28:02	1.24	28.666 9.376 ✓	2.859	-	n
13C-1,2,3,6,7,8-HxCDD	26491800	1.37 y	30:32	0.96	3734.316	1.558	93.4	n
1,2,3,4,7,8-HxCDD	24136	0.94 n	30:31	0.89	4.107	4.713	-	n
1,2,3,6,7,8-HxCDD	24136	0.94 n	30:31	1.05	3.474	3.987	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.00	-	4.162	-	n
Total HxCDD	46259	1.45 n	28:19	0.98	6.882	4.266 4.713 ✓	-	n
13C-1,2,3,4,6,7,8-HpCDF	25441820	0.42 y	32:27	0.98	3493.516	24.867	87.3	n
1,2,3,4,6,7,8-HpCDF	93099	1.60 n	32:28	1.33	10.993 J,Q	4.251	-	n
1,2,3,4,7,8,9-HpCDF	36861	0.87 n	33:41	1.12	^{5/2.7} 5.179	5.058	-	n
Total HpCDF	203431	1.60 n	32:28	1.23	25.600 10.993 ✓	4.619	-	n
13C-1,2,3,4,6,7,8-HpCDD	19134690	1.07 y	33:19	0.82	3137.105	9.239	78.4	n
1,2,3,4,6,7,8-HpCDD	16895	0.64 n	33:20	1.05	3.370	3.805	-	n
Total HpCDD	67967	1.61 n	32:27	1.05	13.556	3.805 4.23 ✓	-	n
13C-OCDD	21710300	0.93 y	35:58	0.54	5415.882	8.724	67.7	n

OCDF	159424	0.99	y	36:05	1.58	37.184	J	6.705	-	n
OCDD	17645	2.18	n	35:56	1.13	5.738		7.400	-	n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:12
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 17.59 of which 4.26 named and 13.33 unnamed
 Conc: 35.19 of which 8.52 named and 26.66 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:47	0.13 n	0.33	1875 14638	1.5 2.8	n n	n n
	2	15:10	0.23 n	0.59	3401 14706	2.8 2.5	n n	n n
	3	15:44	0.81 y	7.78	45948 56839	16.0 8.0	y y	n n
	4	16:00	0.88 y	1.93	11948 13590	8.1 2.5	y n	n n
	5	16:17	0.87 y	3.21	19748 22663	9.1 3.0	y y	n n
	6	16:29	0.47 n	2.07	11870 25118	8.5 4.4	y y	n n
	7	16:46	1.55 n	1.25	14495 9347	7.3 2.0	y n	n n
	8	17:03	1.00 n	5.48	40710 40874	14.9 4.3	y y	n n
2,3,7,8-TCDF	9	17:26	0.59 n	8.52	48987 82437	25.3 8.7	y y	n n
	10	17:41	1.51 n	0.89	9975 6627	8.0 1.3	y n	n n
	11	17:52	0.82 y	2.38	14249 17333	10.6 1.7	y n	n n
	12	18:03	0.34 n	0.75	4325 12745	3.4 1.4	y n	n n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:29
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 19.90 of which * named and 19.90 unnamed
 Conc: 39.80 of which * named and 39.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:06	1.96	n	1.79	13944	10.0	y n
					7101	3.7	y	n
	2	14:20	1.30	n	2.11	10864	10.4	y n
					8375	5.3	y	n
	3	14:26	0.64	n	1.13	3442	3.4	y n
					5392	3.1	y	n
	4	14:34	1.38	n	1.45	7928	7.9	y n
					5750	2.3	n	n
	5	14:40	0.76	y	1.44	4368	4.4	y n
					5750	2.3	n	n
	6	15:04	2.08	n	0.89	7316	7.9	y n
					3516	2.0	n	n
	7	15:20	1.08	n	4.03	17299	17.6	y n
					15990	8.3	y	n
	8	15:27	0.53	n	2.77	8457	9.6	y n
					15990	8.3	y	n
	9	15:35	5.46	n	0.56	12086	12.4	y n
					2213	1.4	n	n
	10	15:47	0.84	y	1.49	4780	4.9	y n
					5692	3.1	y	n
	11	15:53	3.54	n	1.44	20177	18.2	y n
					5692	3.1	y	n
	12	16:25	0.33	n	0.51	1569	1.2	n n
					4744	2.2	n	n
	13	16:41	6.43	n	0.87	22108	21.2	y n
					3436	2.4	n	n
	14	17:00	5.30	n	0.60	12652	8.4	y n
					2388	1.6	n	n
	15	17:10	3.74	n	0.59	8610	9.2	y n
					2305	1.3	n	n

16	17:13	2.54	n	0.58	5851 2305	5.9 1.3	y n	n n
17	17:33	0.62	n	1.00	3044 4902	2.8 2.4	n n	n n
18	18:14	1.15	n	1.75	7967 6937	6.8 2.9	y n	n n
19	18:30	2.12	n	1.08	9085 4278	7.8 2.9	y n	n n
20	18:36	1.31	n	1.03	5332 4077	5.8 2.6	y n	n n
21	18:48	1.02	n	1.56	6329 6192	5.9 3.3	y y	n n
22	19:10	1.68	n	1.56	10384 6187	5.1 2.9	y n	n n
23	19:18	2.56	n	1.57	15873 6211	18.0 3.5	y y	n n
24	19:23	0.47	n	0.95	2895 6211	3.5 3.5	y y	n n
25	19:31	0.74	y	1.04	3085 4191	3.4 2.5	y n	n n
26	19:50	2.18	n	2.75	23823 10904	17.5 7.0	y y	n n
27	20:01	0.49	n	0.65	1982 4073	2.2 2.9	n n	n n
28	20:10	1.17	n	1.31	6079 5196	5.6 3.7	y y	n n
29	20:15	1.33	n	1.31	6925 5196	6.6 3.7	y y	n n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:2
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 4.59 of which 1.11 named and 3.48 unnamed
 Conc: 9.18 of which 2.23 named and 6.96 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:10	1.71 y	6.96	37899	4.8	y	n
					22197	3.6	y	n
1,2,3,7,8-PeCDF	2	22:30	2.72 n	2.23	21359	2.2	n	n
					7861	1.5	n	n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:17

Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1η

Amount:	6.78 of which	* named and	6.78 unnamed
Conc:	13.55 of which	* named and	13.55 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:42	0.84	n	0.84	4416	4.8	y n
						5228	3.7	y n
	2	15:15	1.81	n	1.79	11002	12.2	y n
						6065	4.6	y n
	3	15:27	0.24	n	0.90	4746	3.7	y n
						19800	8.3	y n
	4	15:41	0.48	n	0.43	2276	2.4	n n
						4716	3.5	y n
	5	15:54	2.93	n	1.04	10299	12.3	y n
						3512	1.9	n n
	6	16:02	0.36	n	0.49	2577	2.7	n n
						7065	5.5	y n
	7	16:13	0.71	n	0.99	5206	4.9	y n
						7321	3.3	y n
	8	16:21	2.45	n	1.20	9950	13.4	y n
						4065	2.1	n n
	9	16:44	0.10	n	0.49	2598	3.1	y n
						24895	20.5	y n
	10	17:37	1.80	n	1.59	9715	12.0	y n
						5386	4.2	y n
	11	18:06	0.97	n	0.42	2200	2.9	n n
						2279	1.3	n n
	12	18:14	0.61	n	0.38	1990	2.0	n n
						3266	2.8	n n
	13	18:23	0.12	n	0.21	1089	1.6	n n
						8761	6.1	y n
	14	18:54	0.20	n	0.49	2581	3.0	y n
						13224	5.7	y n
	15	19:06	0.07	n	0.21	1112	1.0	n n
						17028	11.4	y n

16	19:23	0.95	n	0.62	3261	3.6	y	n
					3435	2.4	n	n
17	19:40	2.70	n	1.45	13271	10.0	y	n
					4918	5.4	y	n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:16
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 15.79 of which 1.41 named and 14.37 unnamed
 Conc: 31.57 of which 2.83 named and 28.74 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:11	1.15	n	4.22	10739	3.9	y n
						9314	9.0	y n
	2	21:18	0.68	n	2.50	6361	2.4	n n
						9314	9.0	y n
	3	22:15	4.76	n	0.93	7253	2.7	n n
						1525	1.8	n n
	4	22:26	2.10	n	1.93	6652	1.4	n n
						3166	2.8	n n
	5	22:50	0.35	n	1.16	2937	1.1	n n
						8386	8.8	y n
	6	23:41	11.98	n	0.94	18521	2.3	n n
						1545	1.8	n n
	7	24:05	5.82	n	2.36	22508	3.3	y n
						3865	3.4	y n
	8	24:20	7.07	n	0.48	5544	1.8	n n
						784	0.7	n n
1,2,3,7,8-PeCDD	9	24:35	1.44	y	2.83	6983	2.4	n n
						4844	4.4	y n
	10	24:47	1.62	y	2.91	7528	2.0	n n
						4660	4.1	y n
	11	25:03	0.71	n	3.47	8825	3.5	y n
						12444	14.7	y n
	12	25:11	2.06	n	1.57	5295	1.9	n n
						2576	2.5	n n
	13	26:10	3.13	n	2.45	12615	4.2	y n
						4024	4.5	y n
	14	26:27	6.76	n	1.13	12535	4.7	y n
						1854	1.9	n n
	15	26:40	2.81	n	1.31	6043	2.1	n n
						2152	1.9	n n

16	26:45	2.69	n	1.37	6040	2.0	n	n
					2245	2.8	n	n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total HxCDF

F:3 Mass: 373.821 375.818 Mod? no #Hom:9

Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 14.33 of which 8.31 named and 6.02 unnamed
 Conc: 28.67 of which 16.62 named and 12.04 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:02	1.06	y 2.59	14692 13801	3.1 3.8	y	n
	2	28:19	1.33	y 5.05	31656 23780	3.1 4.3	y	n
1,2,3,4,7,8-HxCDF	3	29:33	1.48	n 9.38	66955 45378	10.8 9.2	y	n
1,2,3,6,7,8-HxCDF	4	29:43	1.21	y 3.66	25064 20675	4.7 4.8	y	n
	5	29:52	2.13	n 1.81	18841 8864	4.0 2.4	y	n
	6	29:59	1.32	y 1.75	10980 8301	1.9 2.6	n	n
	7	30:03	3.21	n 0.35	5444 1698	1.2 0.7	n	n
2,3,4,6,7,8-HxCDF	8	30:17	1.23	y 3.59	21733 17614	3.0 2.9	n	n
	9	30:41	0.84	n 0.50	3025 3596	0.6 1.3	n	n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:3
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 3.44 of which 1.74 named and 1.70 unnamed
 Conc: 6.88 of which 3.47 named and 3.41 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:19	1.45 n	2.20	9240 6372	3.7 1.4	y n	n n
1,2,3,6,7,8-HxCDD	2	30:31	0.94 n	3.47	13361 14234	7.2 1.8	y n	n n
	3	31:35	0.82 n	1.21	4345 5293	2.3 0.9	n n	n n

Run Text: L84Q3-1-AA

Sample text: L84Q3-1-AA :G0J260480-17

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:7
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 12.80 of which 8.09 named and 4.71 unnamed
 Conc: 25.60 of which 16.17 named and 9.43 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:28	1.60	n	10.99	72996	8.5	y n
						45637	11.6	y n
	2	32:39	0.60	n	2.25	8953	1.4	n n
						14937	2.8	n n
3	32:49	1.45	n	2.45	13525	2.8	n n	
					9359	2.6	n n	
4	32:53	1.02	y	2.45	9577	1.5	n n	
					9359	2.6	n n	
1,2,3,4,7,8,9-HpCDF	5	33:41	0.87	n	5.28 ^{5.10}	18792	3.0	n n
						21515	4.2	y n
6	34:32	2.11	n	1.29	10419	2.2	n n	
					4936	1.8	n n	
7	34:38	0.81	n	1.00	3983	0.6	n n	
					4936	1.8	n n	

Run Text: L84Q3-1-AA

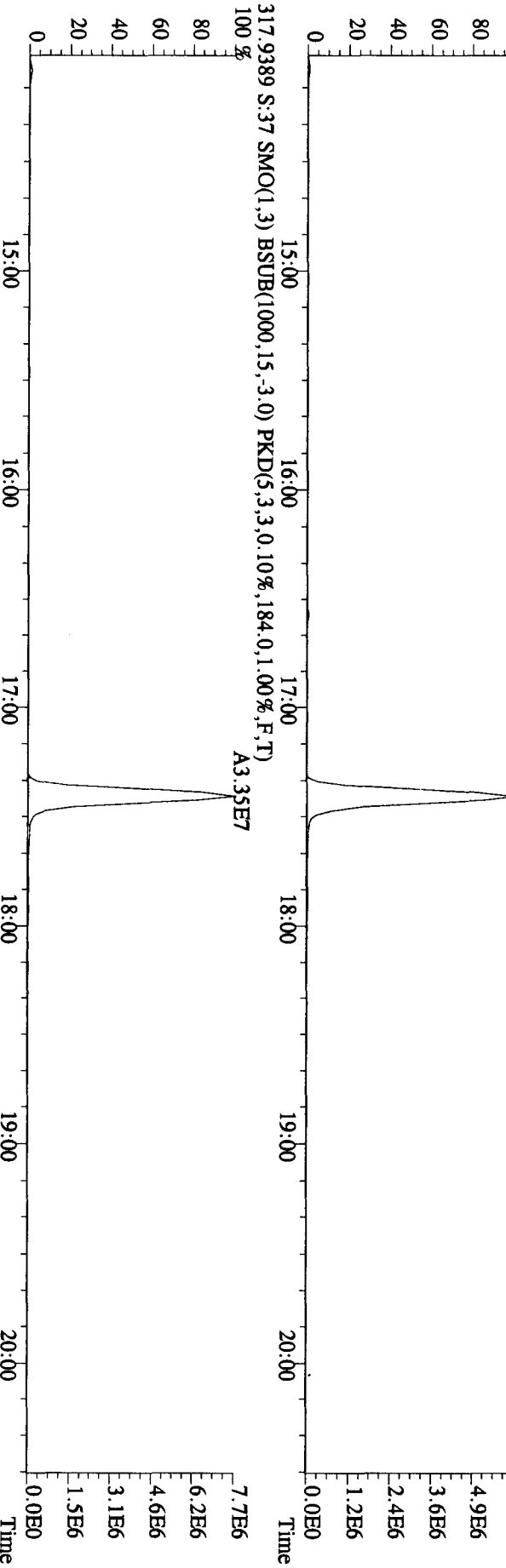
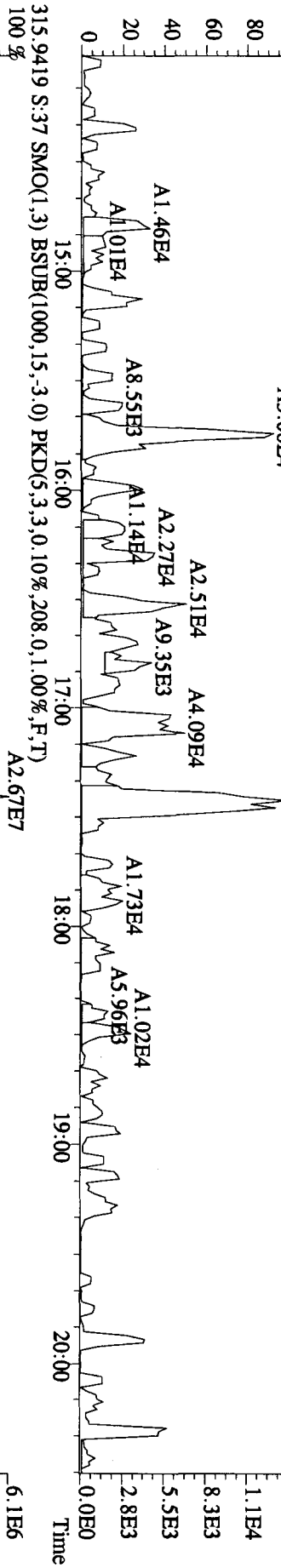
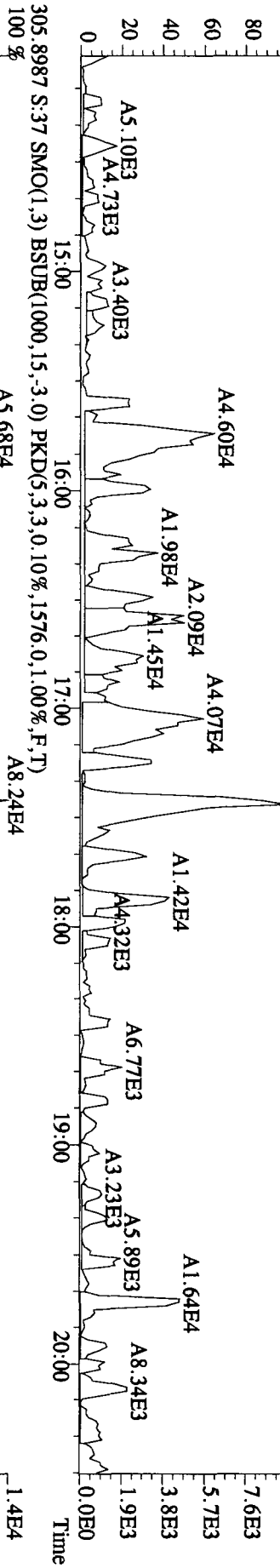
Sample text: L84Q3-1-AA :G0J260480-17

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7
 Run: 15 File: 02NO10A1D5 S:37 Acq:3-NOV-10 16:18:03
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

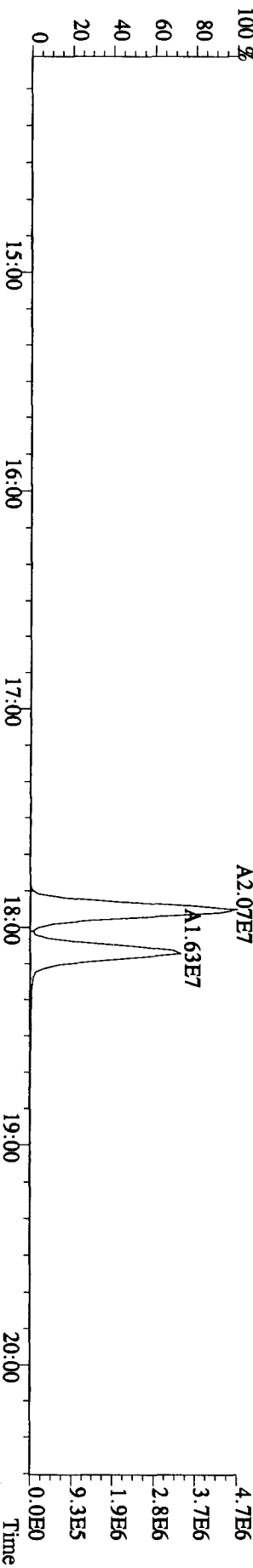
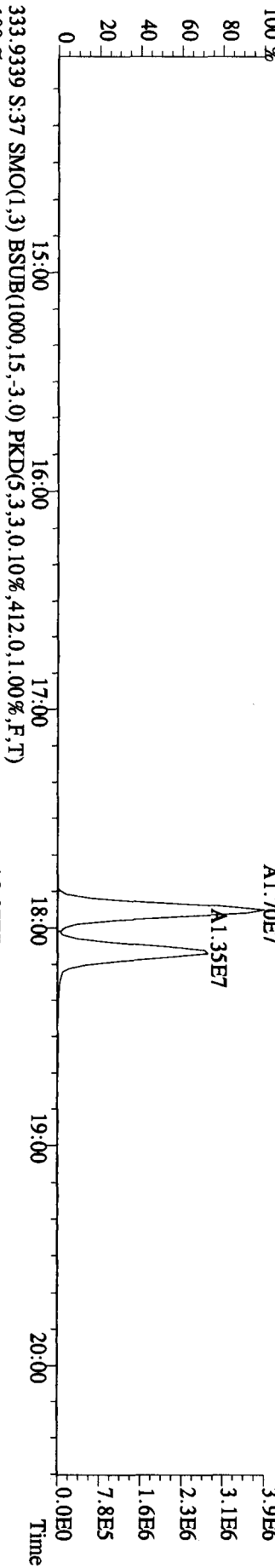
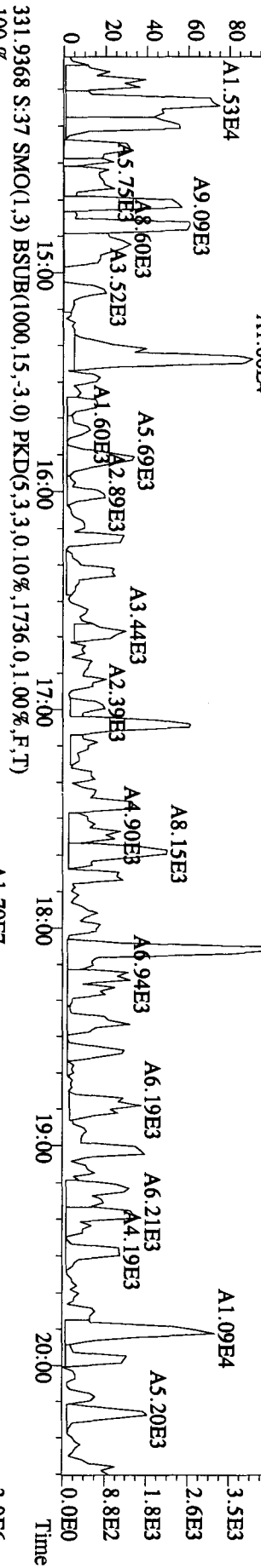
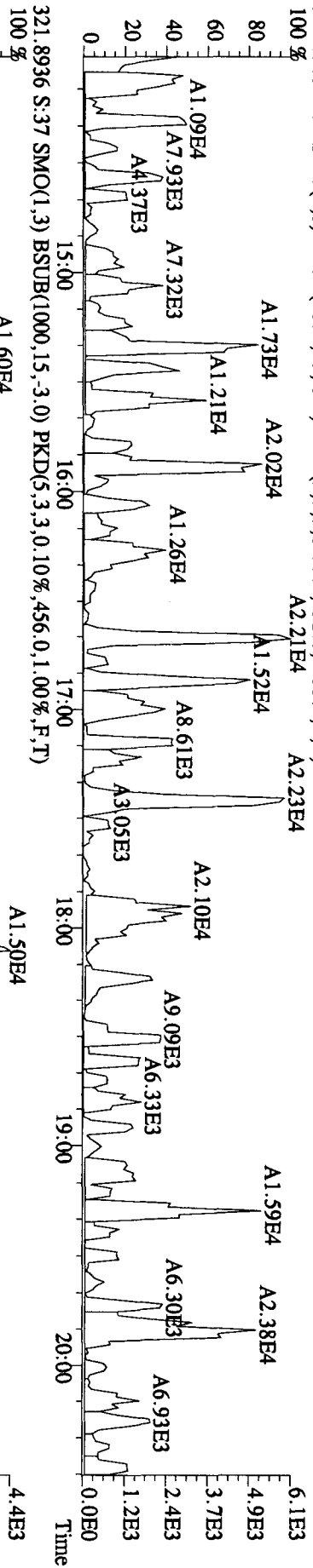
Amount: 6.78 of which 1.68 named and 5.09 unnamed
 Conc: 13.56 of which 3.37 named and 10.19 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:27	1.61	n	4.23	16745	3.6	y n
						10403	6.3	y n
1,2,3,4,6,7,8-HpCDD	2	33:20	0.64	n	3.37	8613	2.7	n n
						13363	7.0	y n
	3	33:39	2.83	n	2.00	13915	4.0	y n
						4921	2.9	n n
	4	34:17	1.82	n	1.41	6310	2.7	n n
						3470	2.7	n n
	5	34:35	3.69	n	0.66	5961	2.0	n n
						1614	1.2	n n
	6	34:50	2.11	n	1.17	6089	2.1	n n
						2881	1.8	n n
	7	35:00	2.34	n	0.71	4095	2.2	n n
						1747	1.1	n n

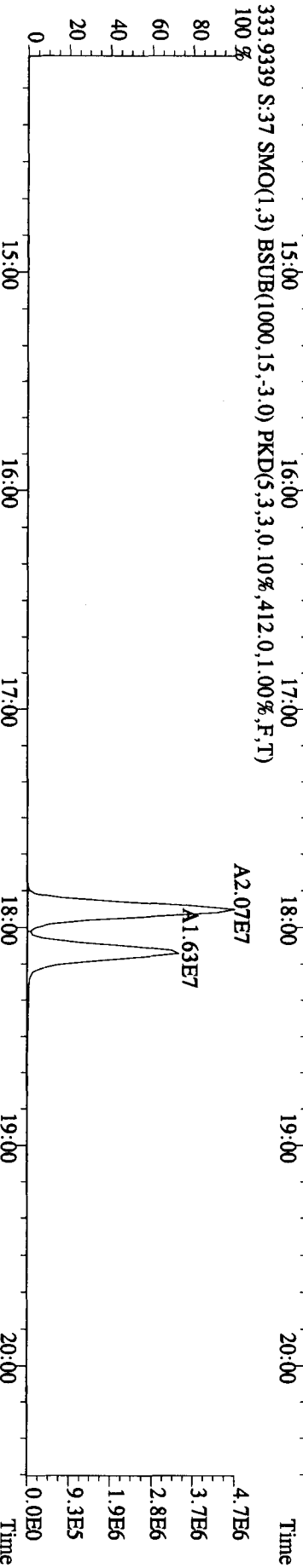
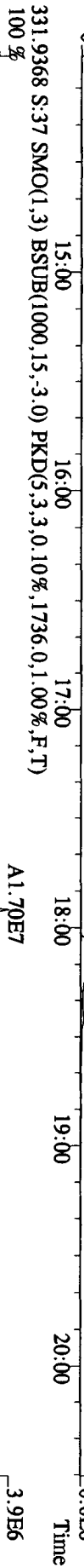
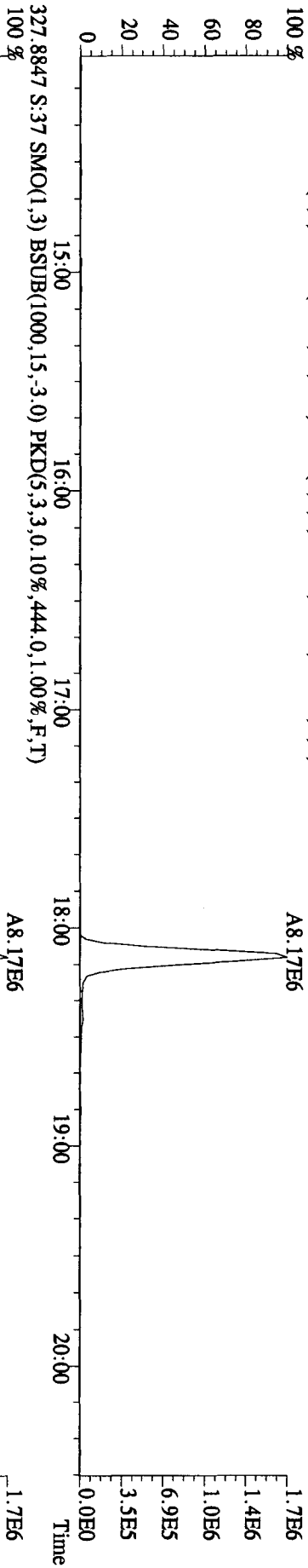
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
 Sample#37 Text: L84Q3-1-AA : G0J260480-17 Exp: DIOXINRES
 303.9016 S:37 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,372,0,1,00%,F,T)



File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
 Sample#37 Text: L84Q3-1-AA : G0J260480-17 Exp: DIOXINRES
 319.8965 S:37 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,292.0,1.00%,F,T)
 100 %



File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
Sample#37 Text:L84Q3-1-AA : G01260480-17 Exp:DIOXINRES
327.8847 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,444.0,1.00%,F,T)



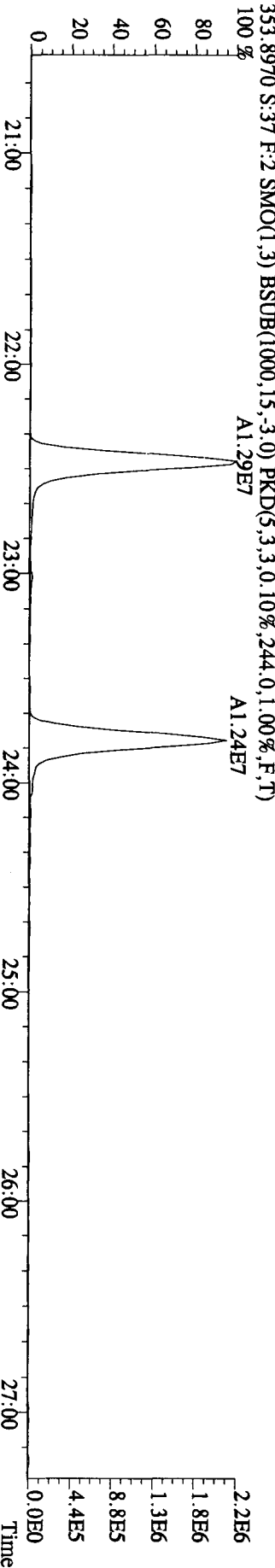
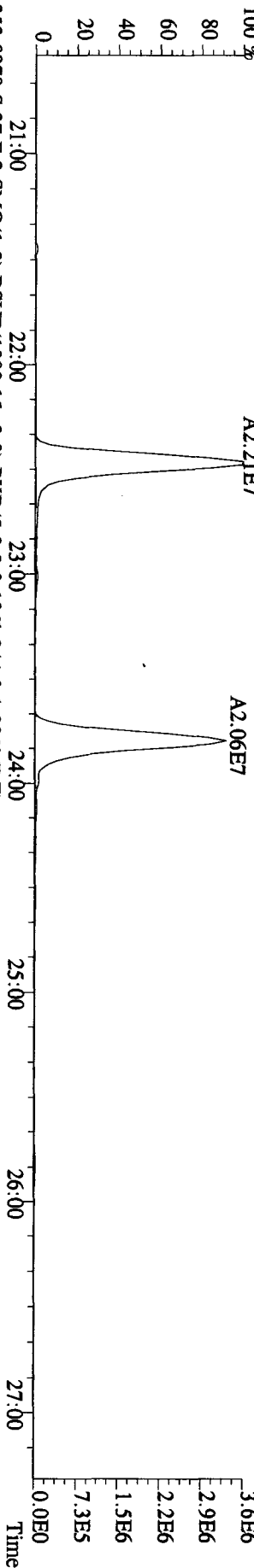
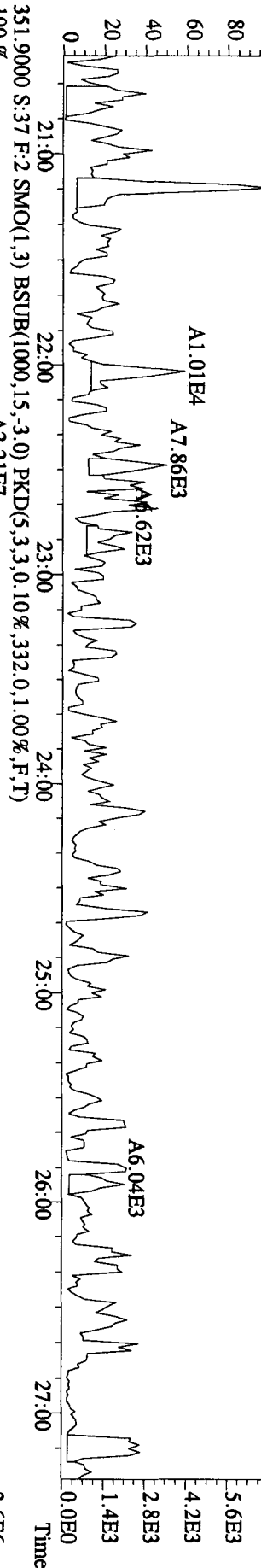
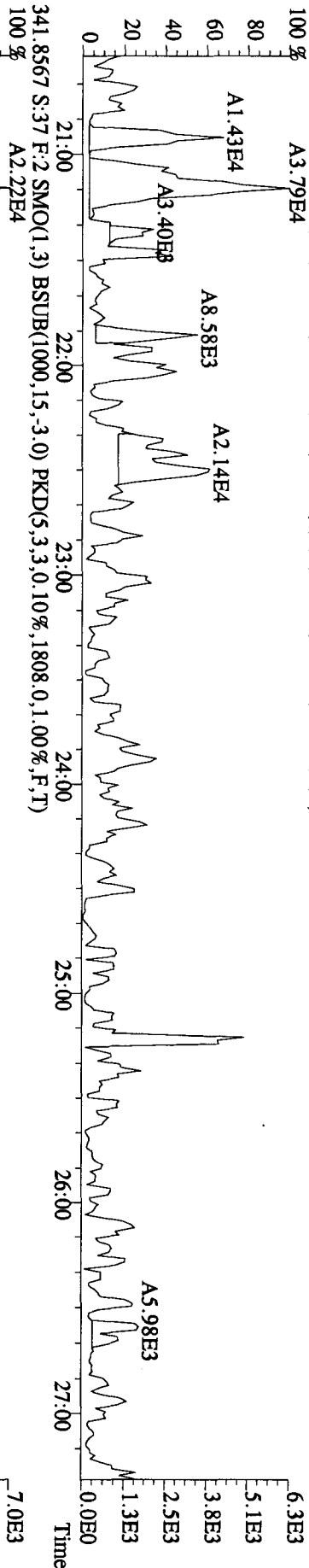
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Sample#37 Text:L84Q3-1-AA :G01260480-17

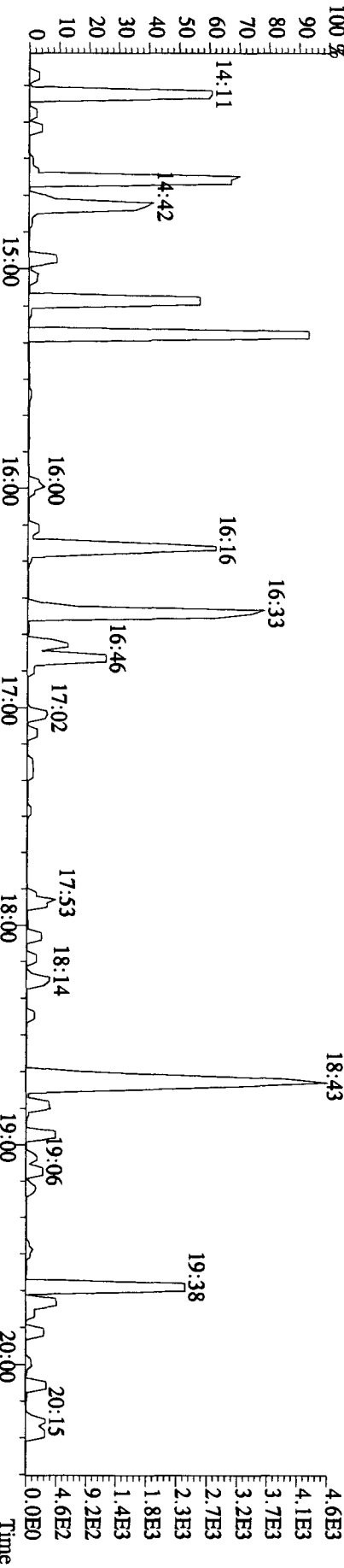
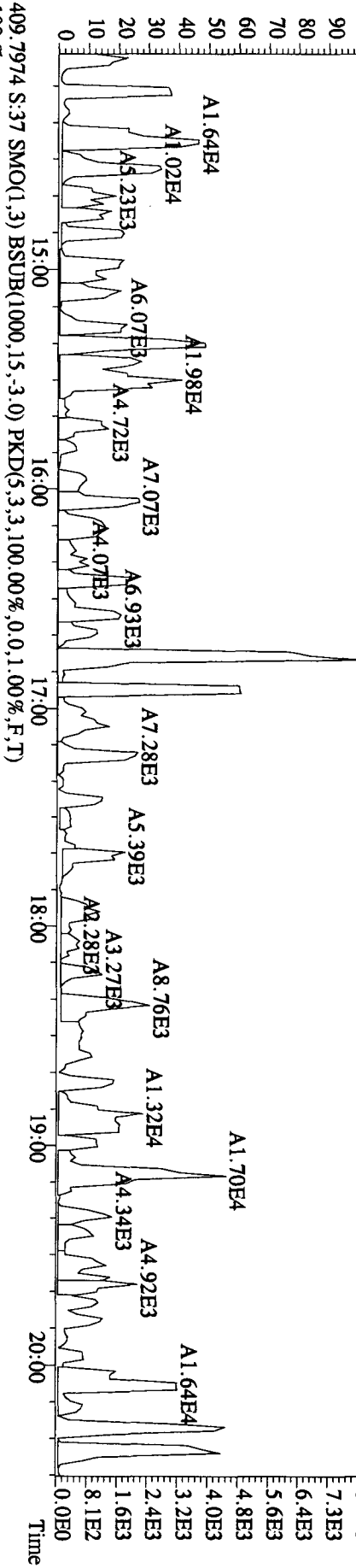
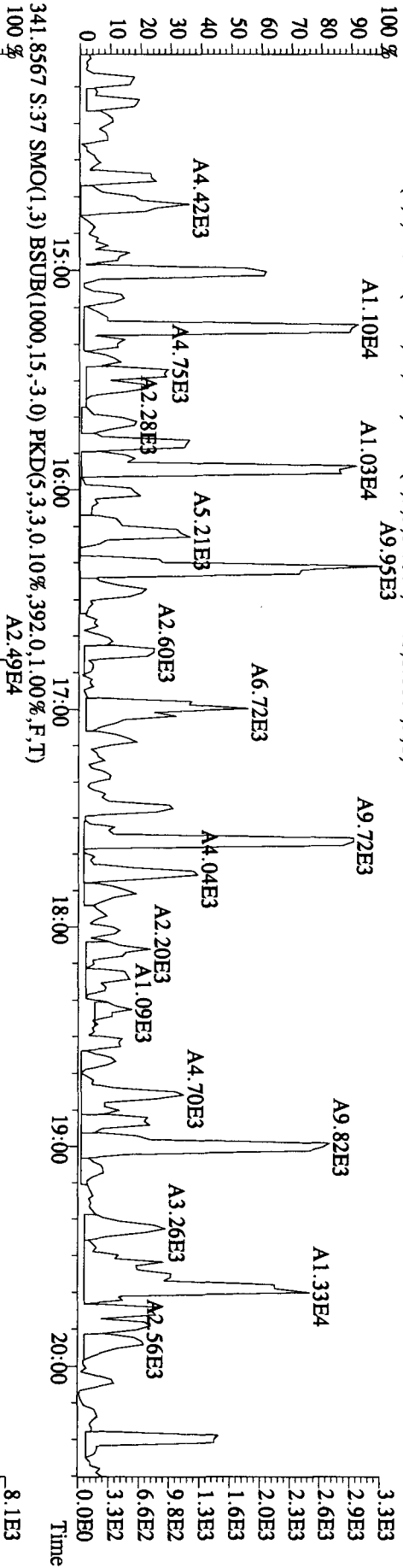
Exp:DIOXINRES

339.8597 S:37 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)

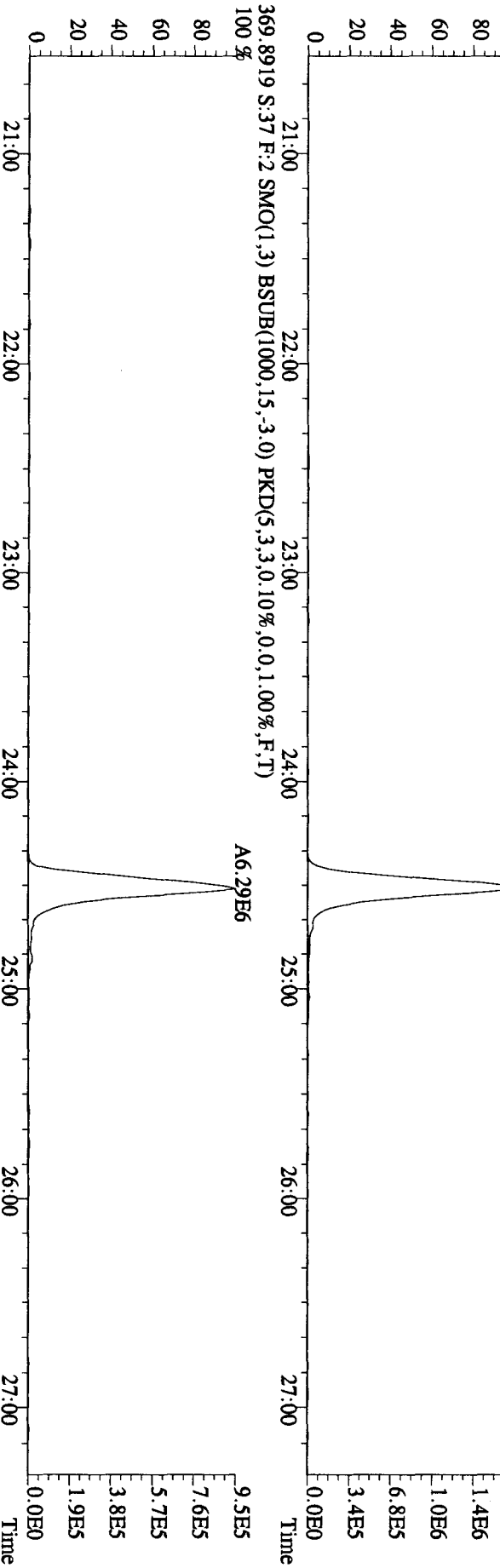
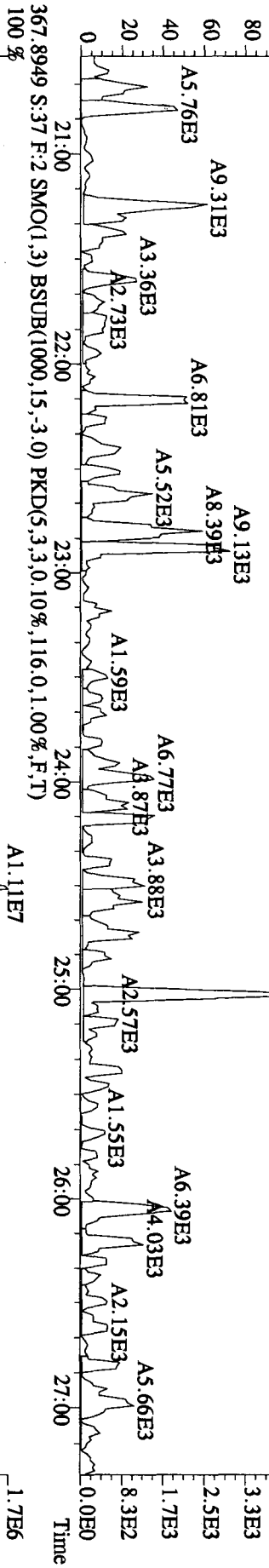
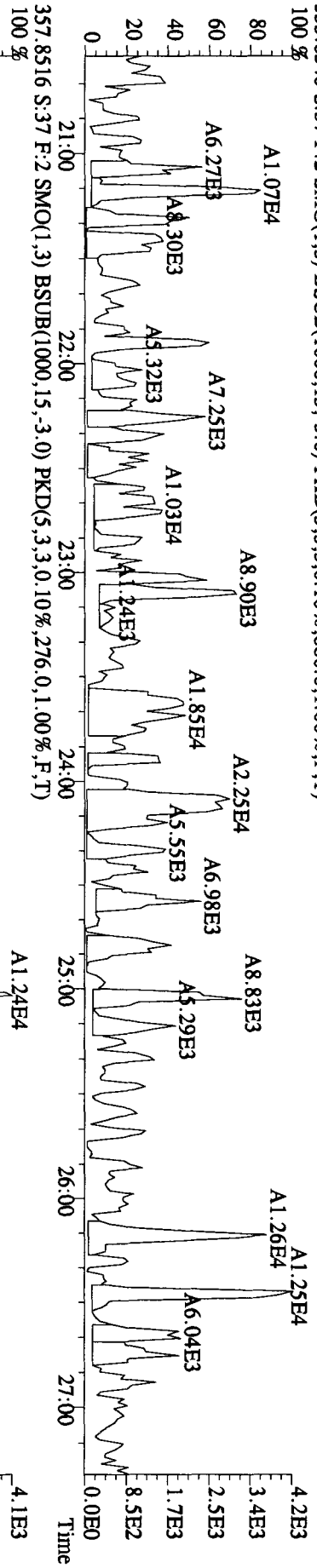
100% A3.79E4



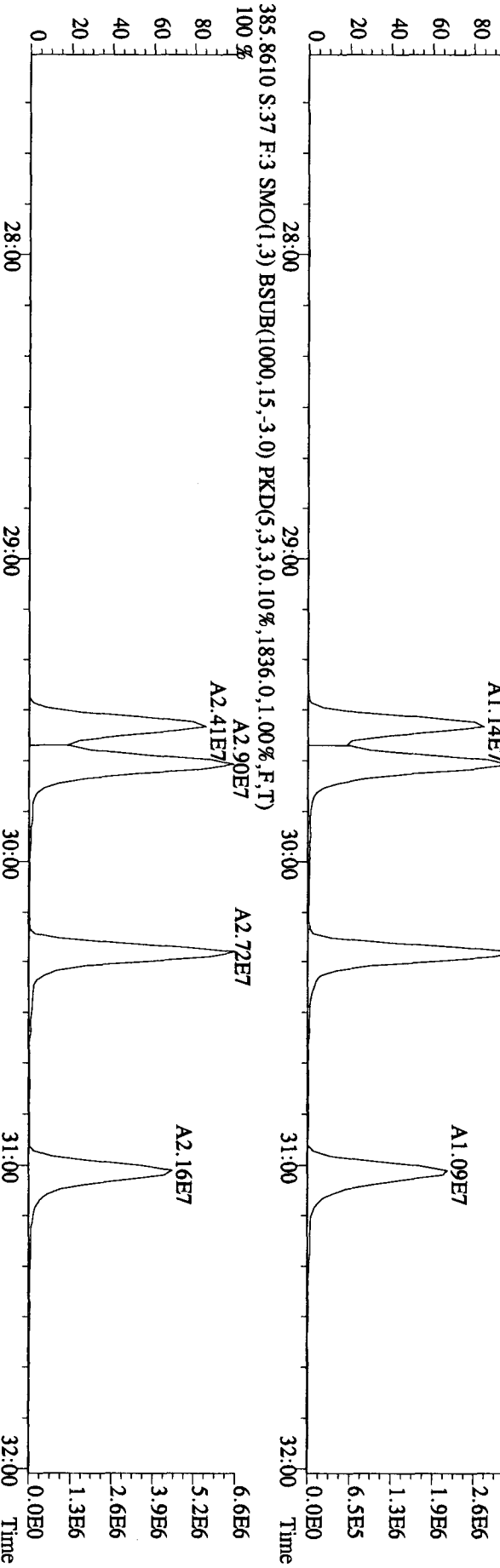
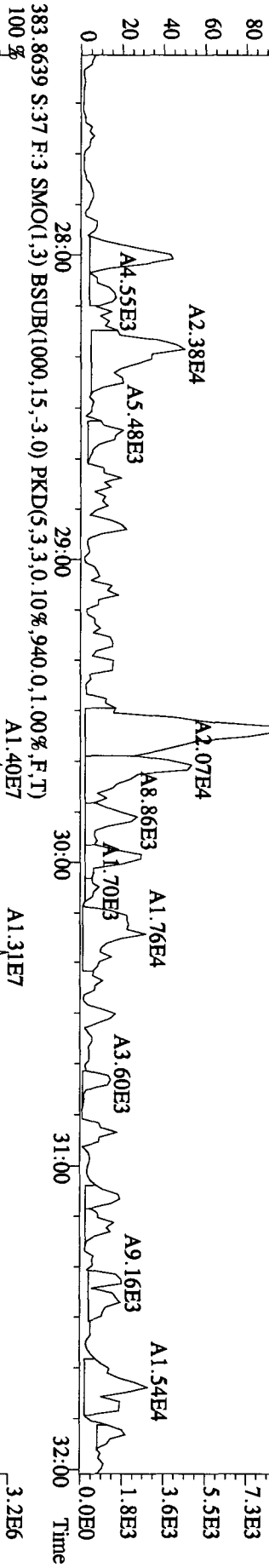
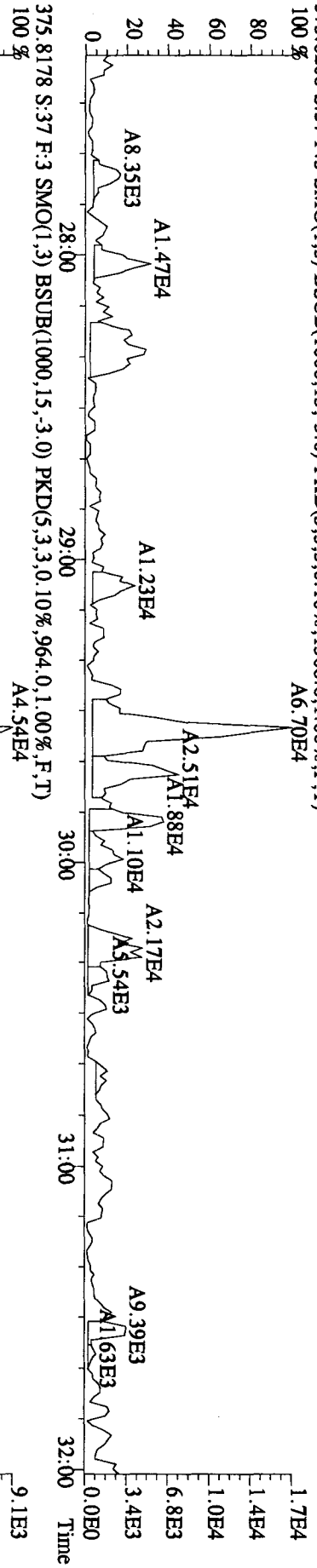
File: 02NO10A1.D5 #1-382 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
Sample#37 Text:L84Q3-1-AA :G0J260480-17 Exp:DIOXINRES
339.8597 S:37 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,244.0,1.00%,F,T)



File: 02N010A1D5 #1-423 Acq: 3-NOV-2010 16:18:03 GC: EI + Voltage SIR 70SE
 Sample#37 Text: L84Q3-1-AA :G0J260480-17 Exp: DIOXINRES
 355.8546 S:37 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,880,0,1,00%,F,T)



File: 02N010A1D5 #1-301 Acq: 3-NOV-2010 16:18:03 GC: EI+ Voltage: SIR 70SE
 Sample#37 Text: L84Q3-1-AA :G0J260480-17 Exp: DIOXINRES
 373.8208 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508,0.1,0.00%,F,T)
 385.8610 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1836,0.1,0.00%,F,T)

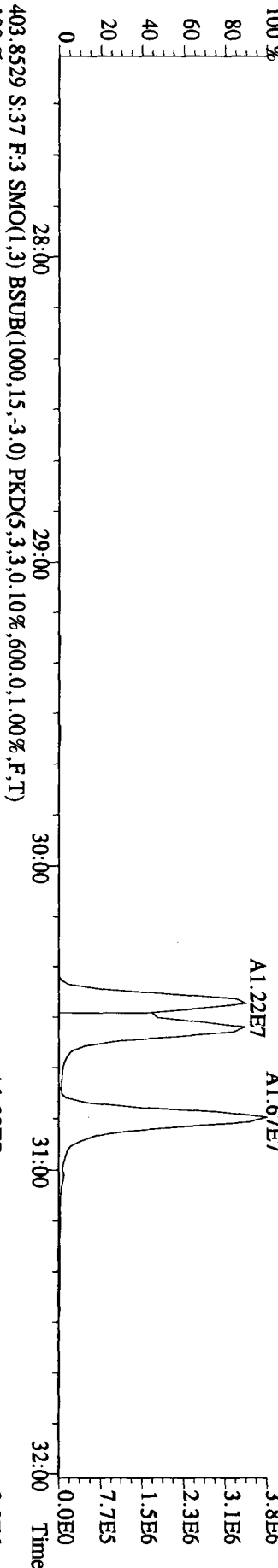
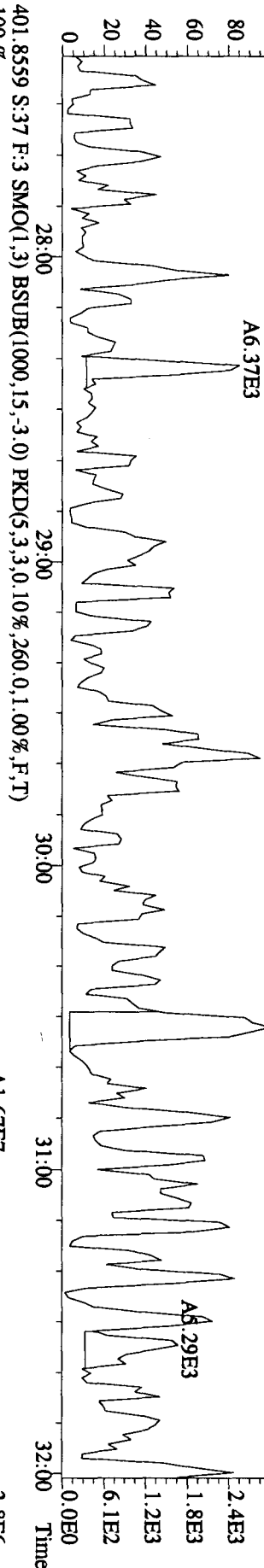
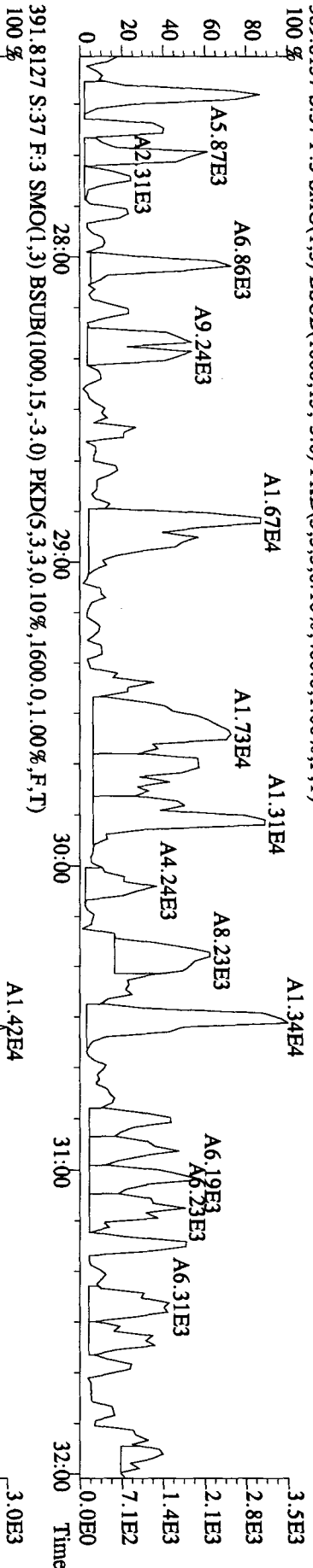


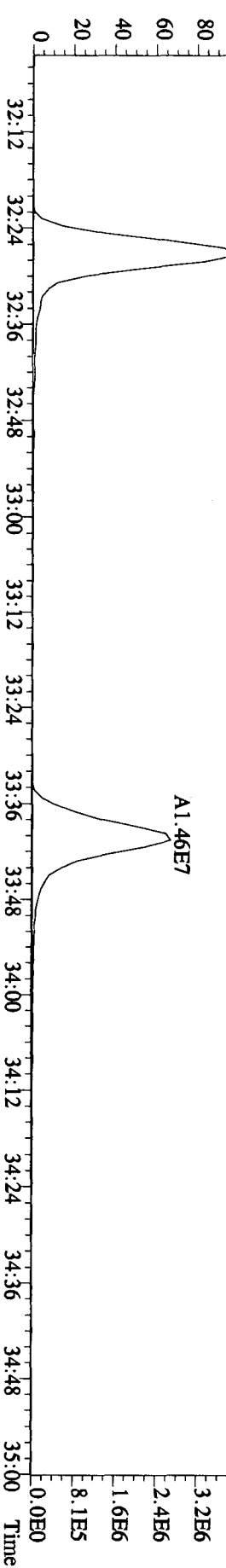
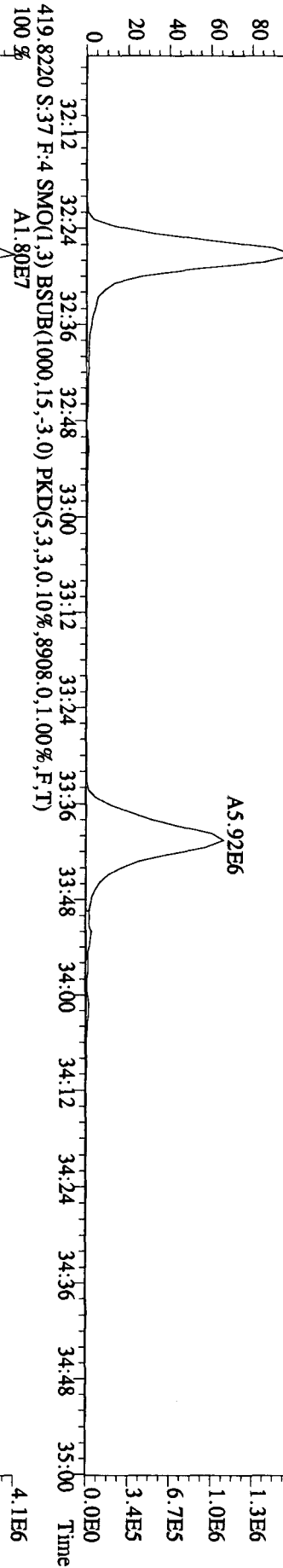
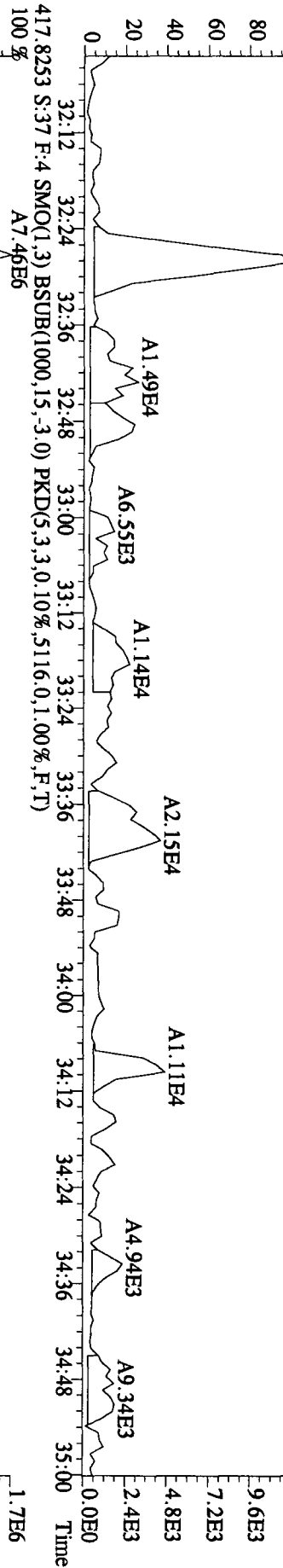
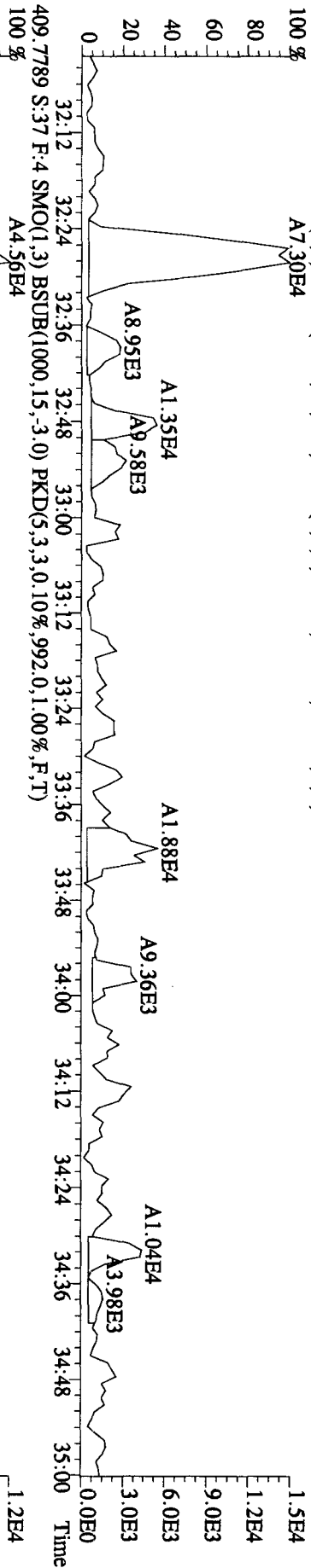
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE

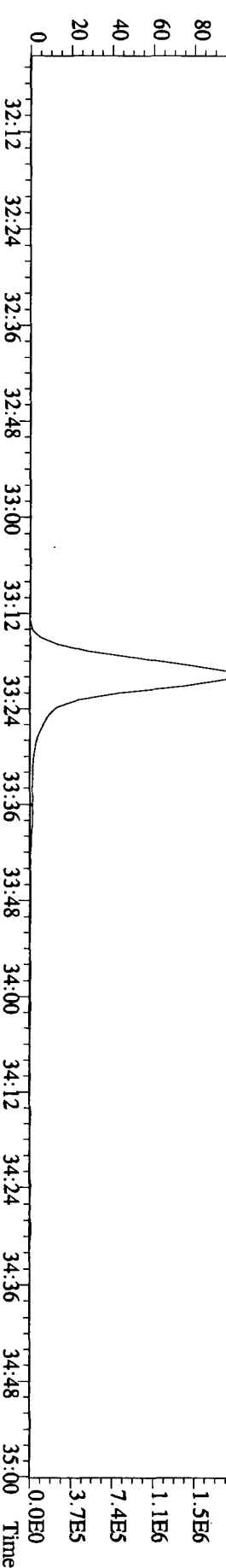
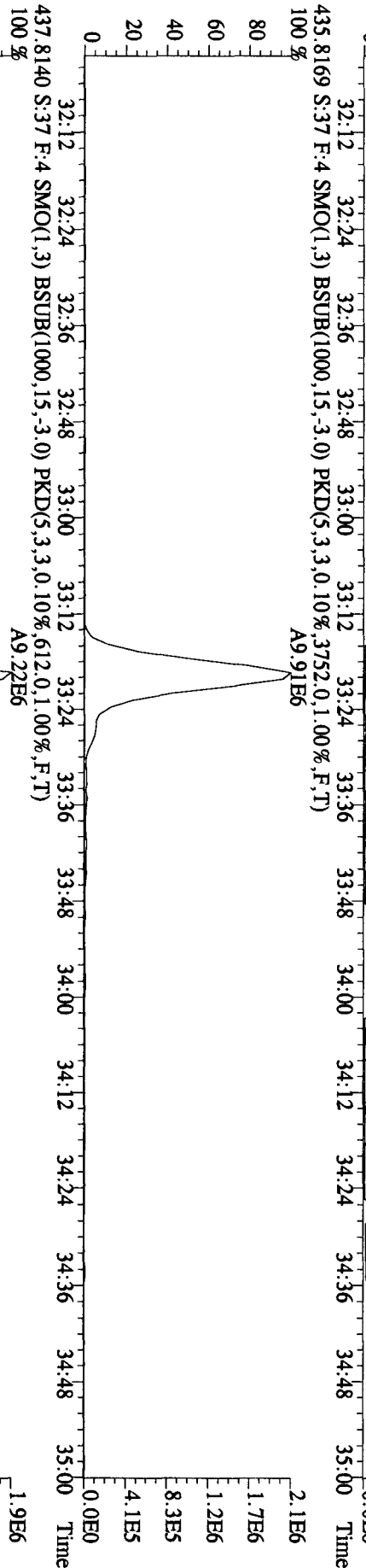
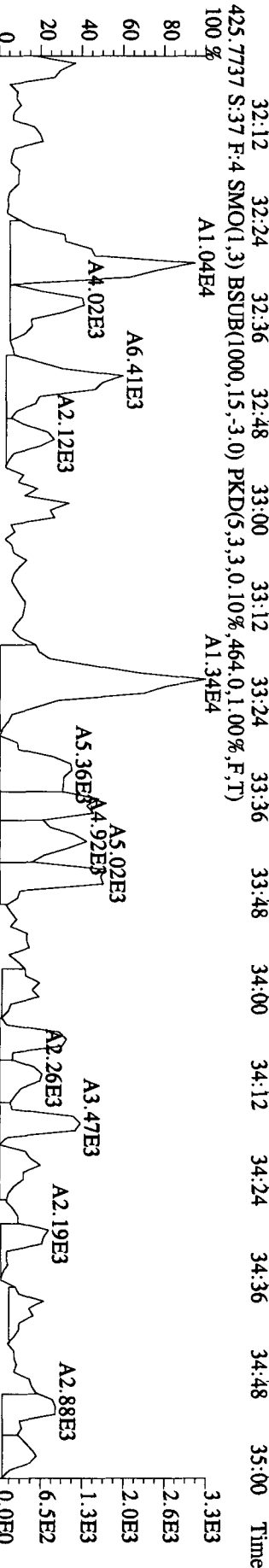
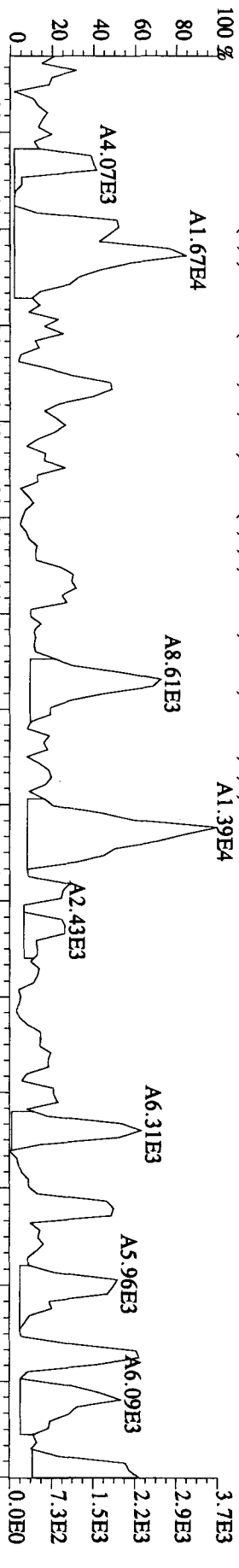
Sample#37 Text:L84Q3-1-AA :G01260480-17

Exp:DIOXINRES

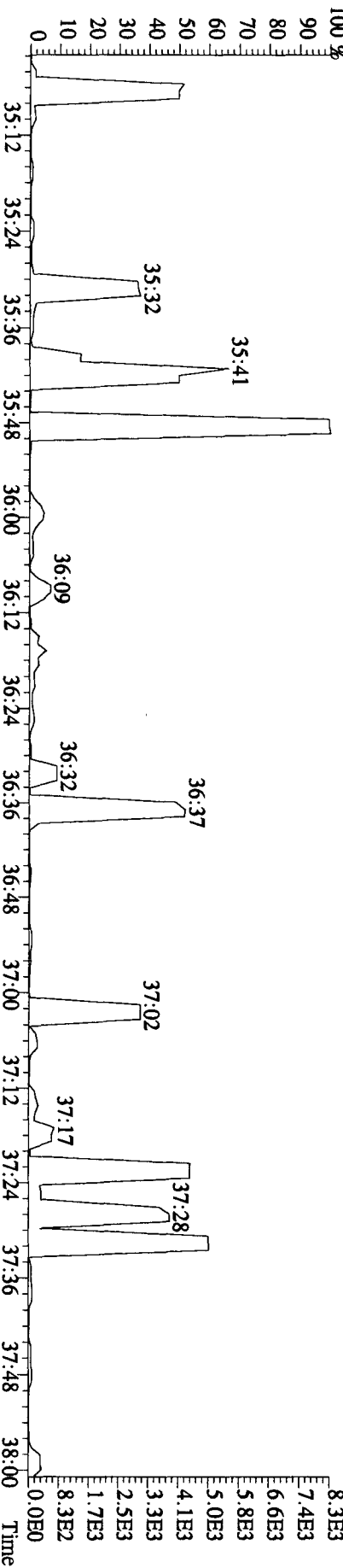
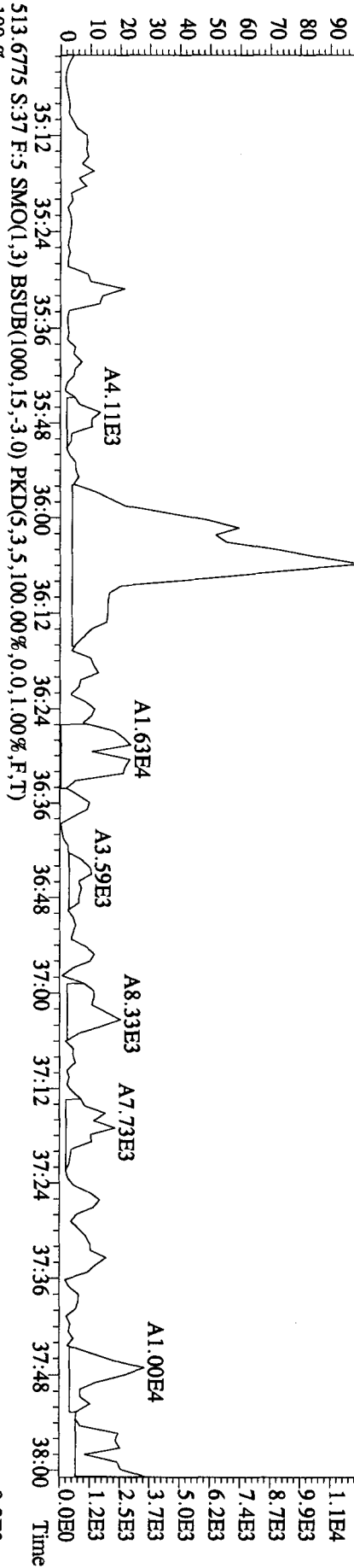
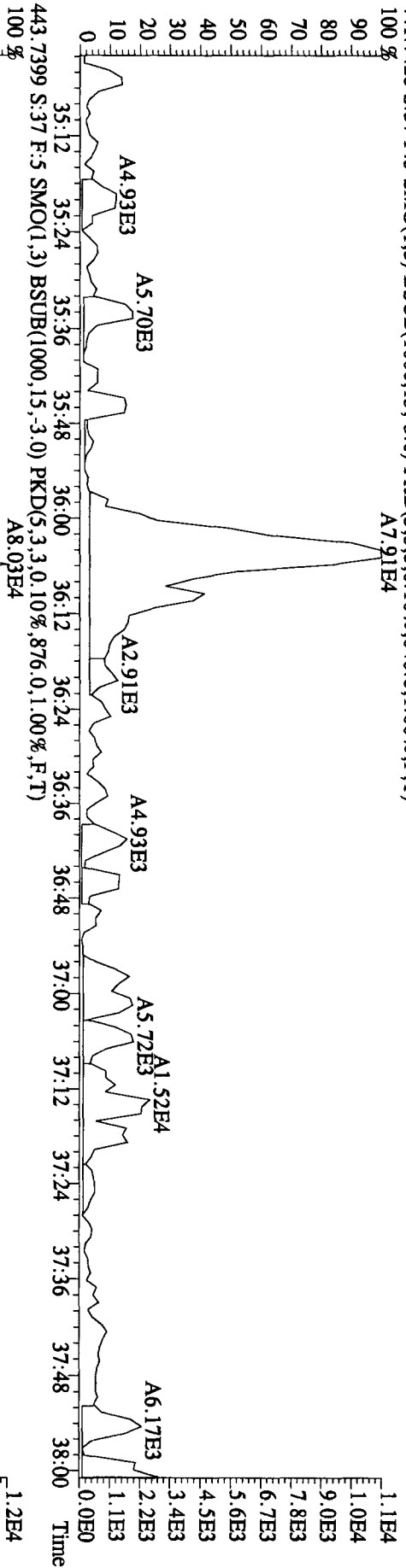
389.8157 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,480,0.1,00%,F,T)

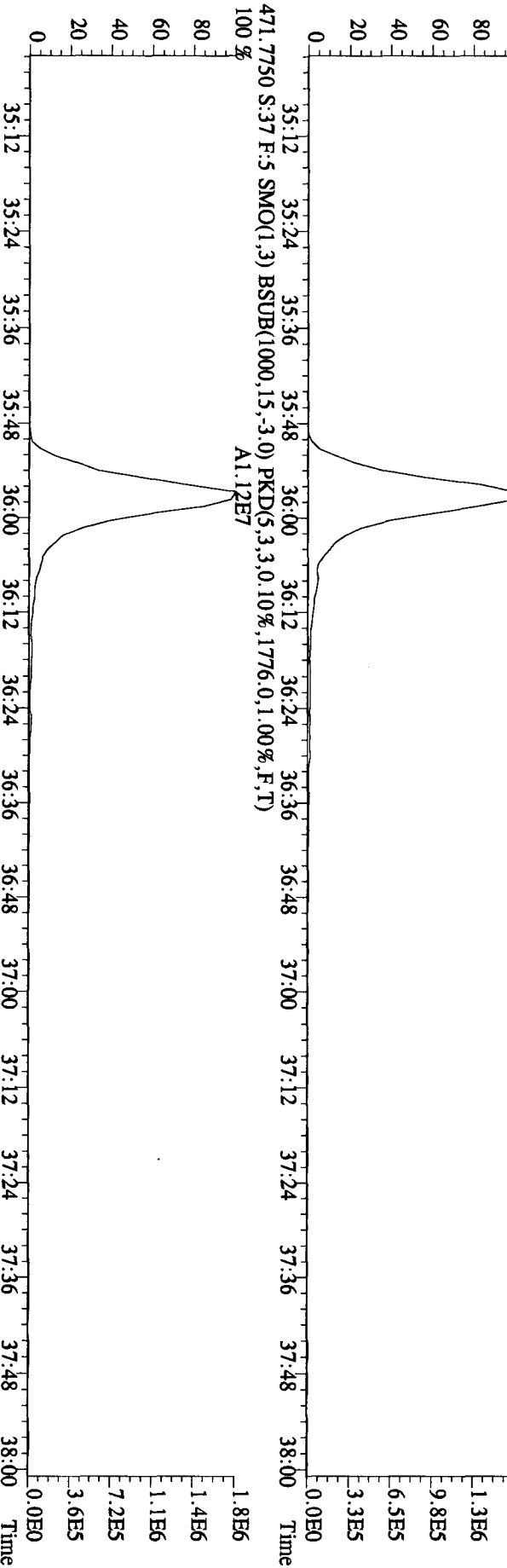
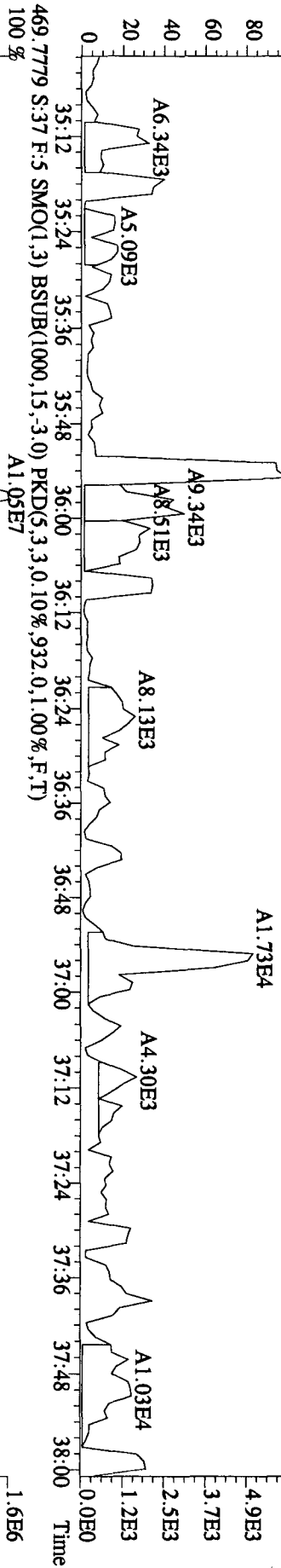
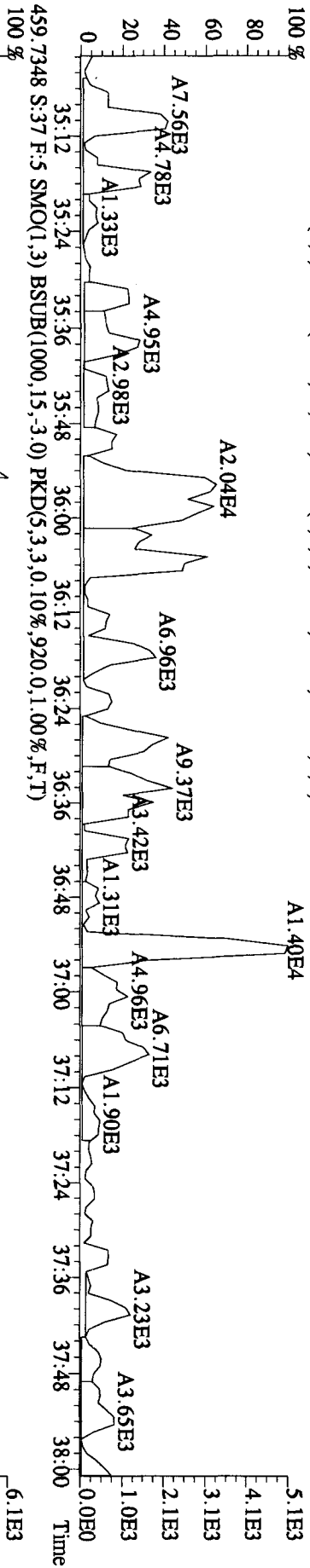


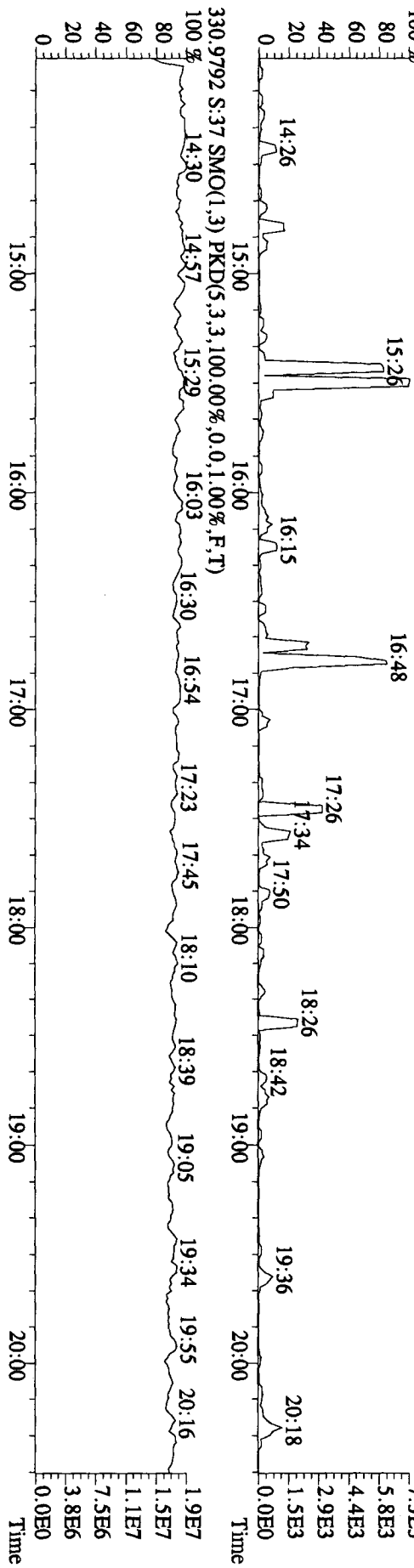
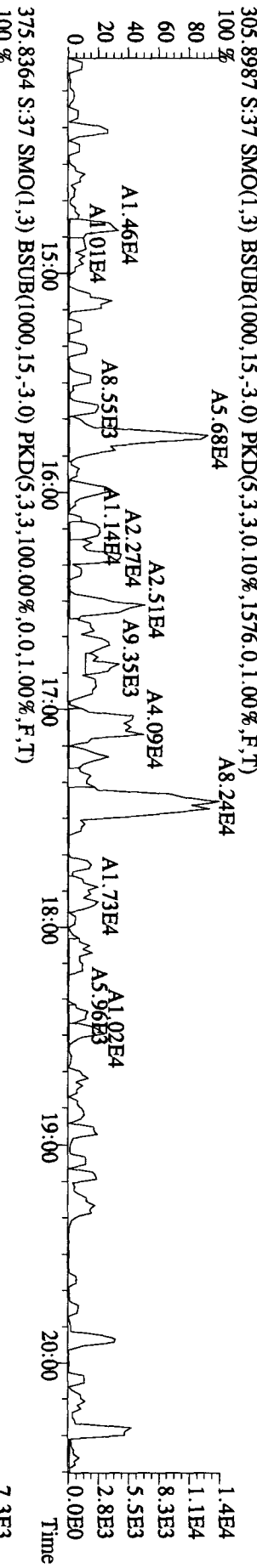
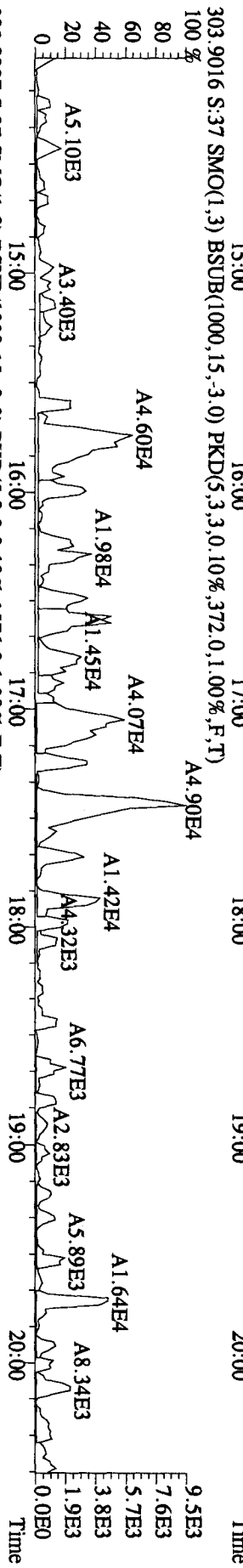
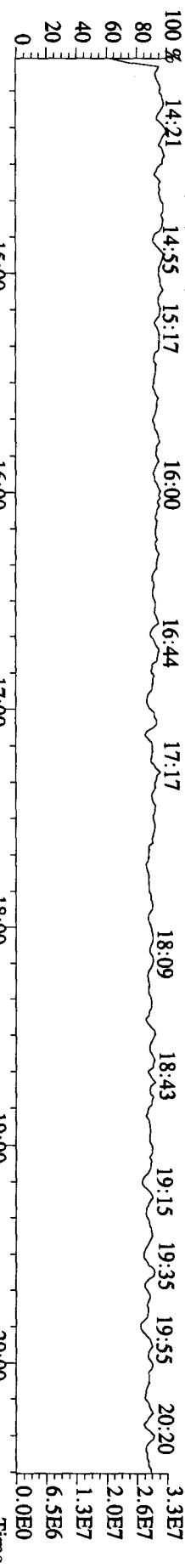




File:02NO10A1D5 #1-197 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
 Sample#37 Text:L84Q3-1-AA :G0J260480-17 Exp:DIOXINRES
 441.7428 S:37 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,640,0,1.00%,F,T)
 100%





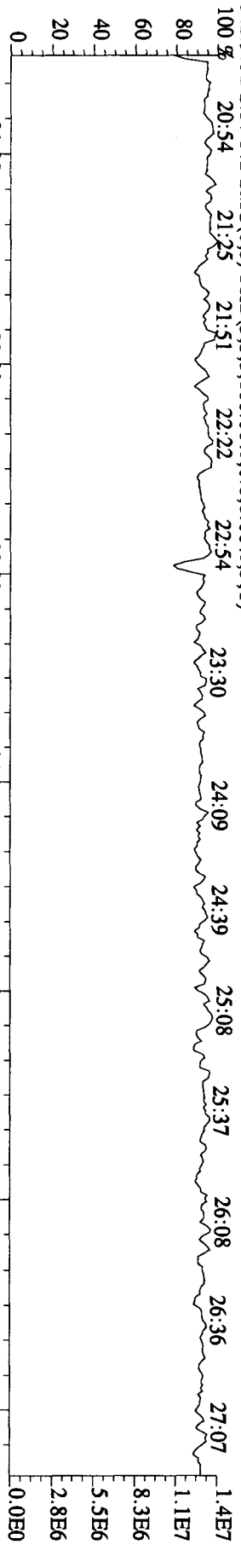


File: 02NO10A1D5 #1-423 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE

Sample#37 Text: L84Q3-1-AA : G0J260480-17 Exp: DIOXINRES

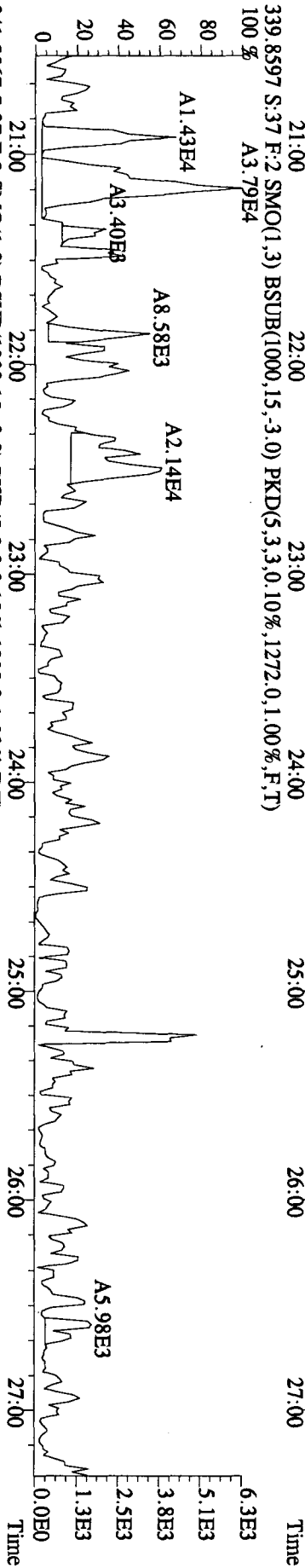
342.9792 S:37 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 20:54 21:25 21:51 22:22 22:54 23:30 24:09 24:39 25:08 25:37 26:08 26:36 27:07



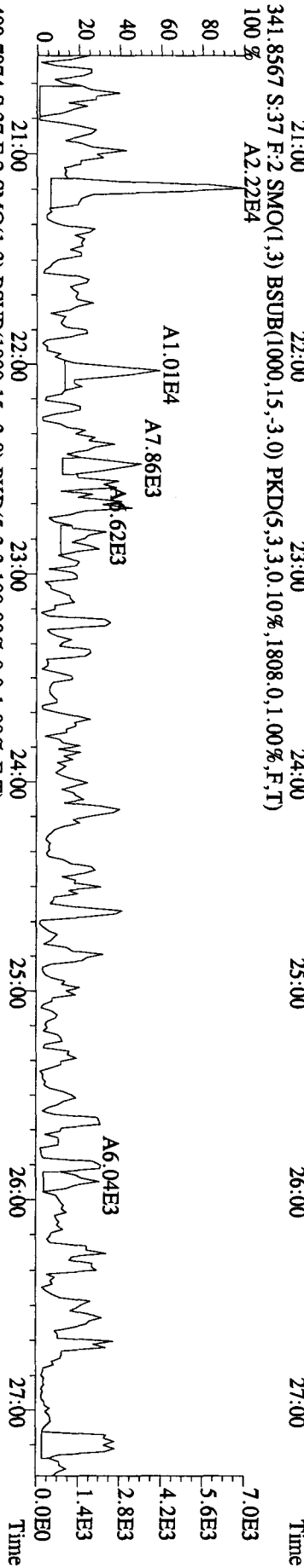
339.8597 S:37 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)

100% A3.79E4

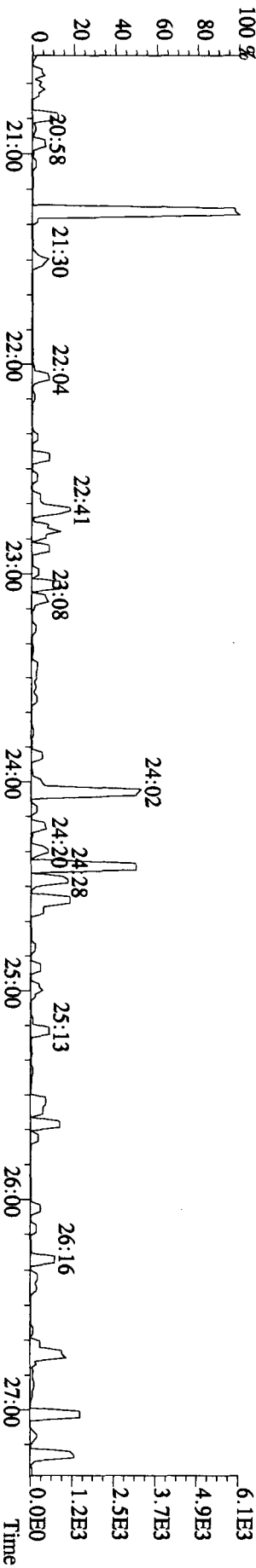


341.8567 S:37 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1808.0,1.00%,F,T)

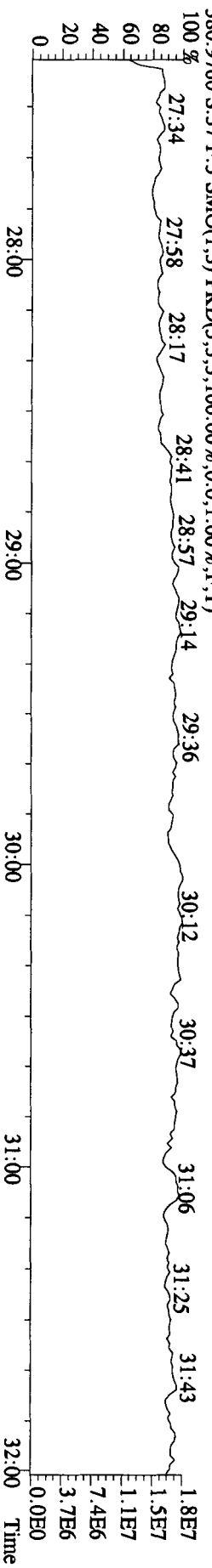
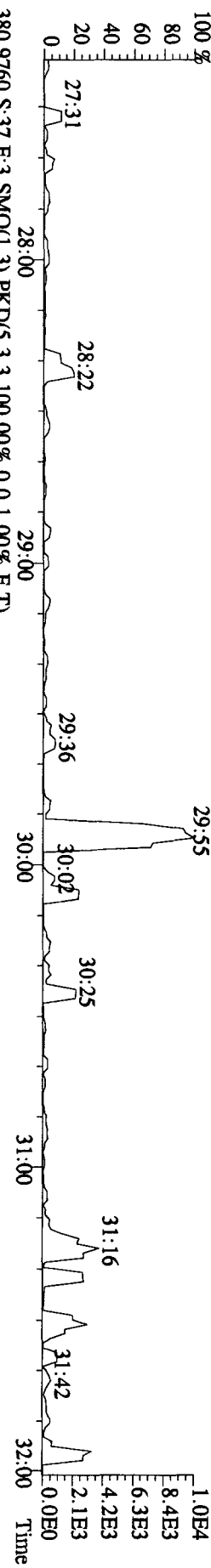
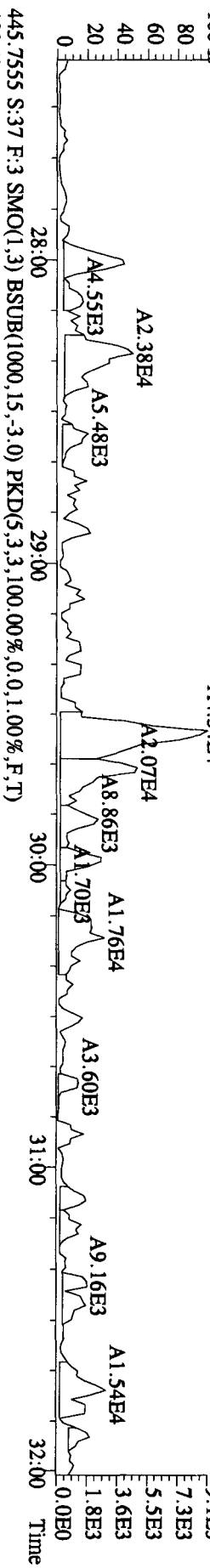
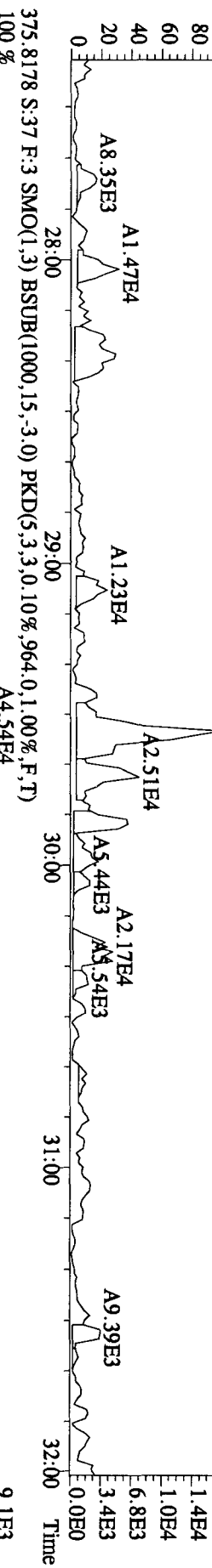
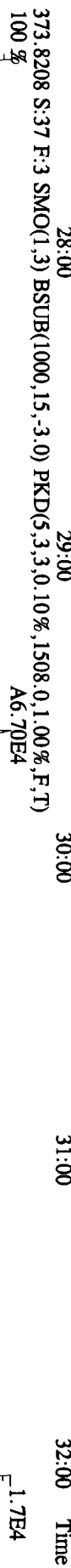
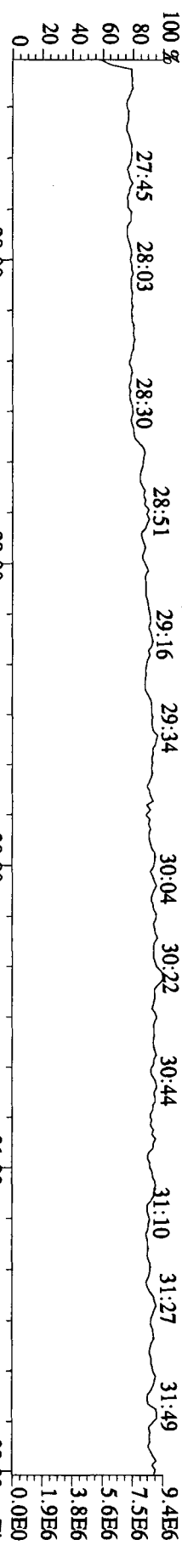
100% A2.22E4



409.7974 S:37 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 02NO10A1.DS #1-301 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
 Sample#37 Text:L84Q3-1-AA : G01260480-17 Exp:DIOXINRES
 392.9760 S:37 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

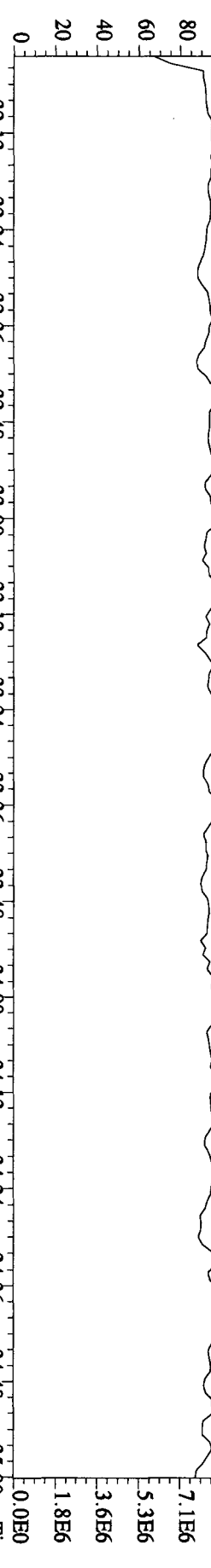


File: 02NO10A1D5 #1-202 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE

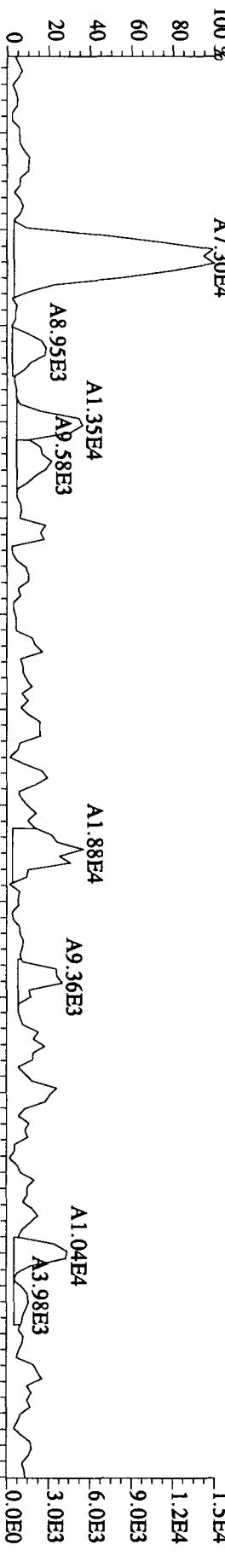
Sample#37 Text: L84Q3-1-AA : G01260480-17 Exp: DIOXINRES

430.9728 S:37 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

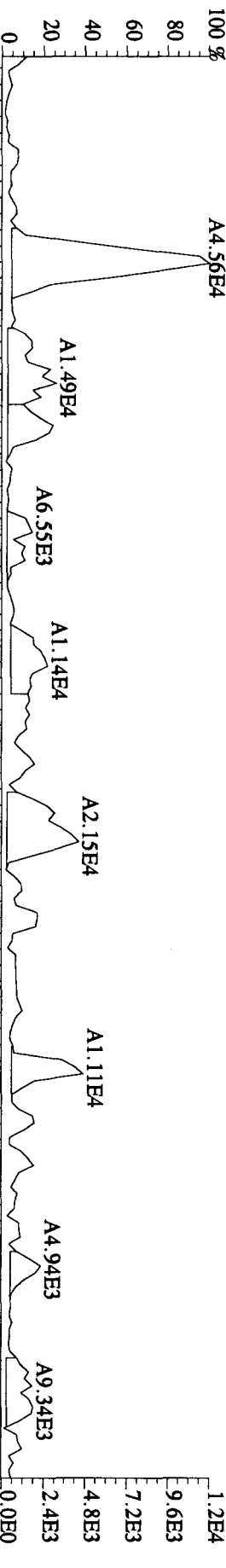
100% 32:14 32:44 32:59 33:10 33:25 33:37 33:49 34:02 34:11 34:22 34:37 34:50



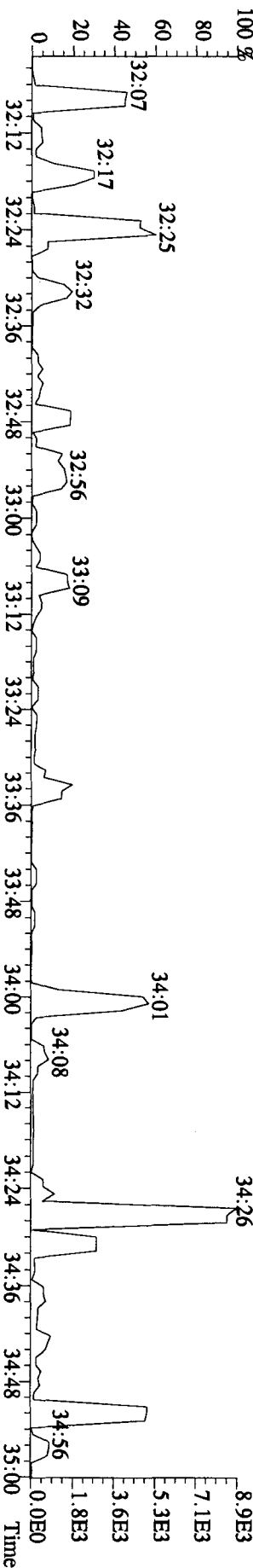
407.7818 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1716,0,1,00%,F,T)



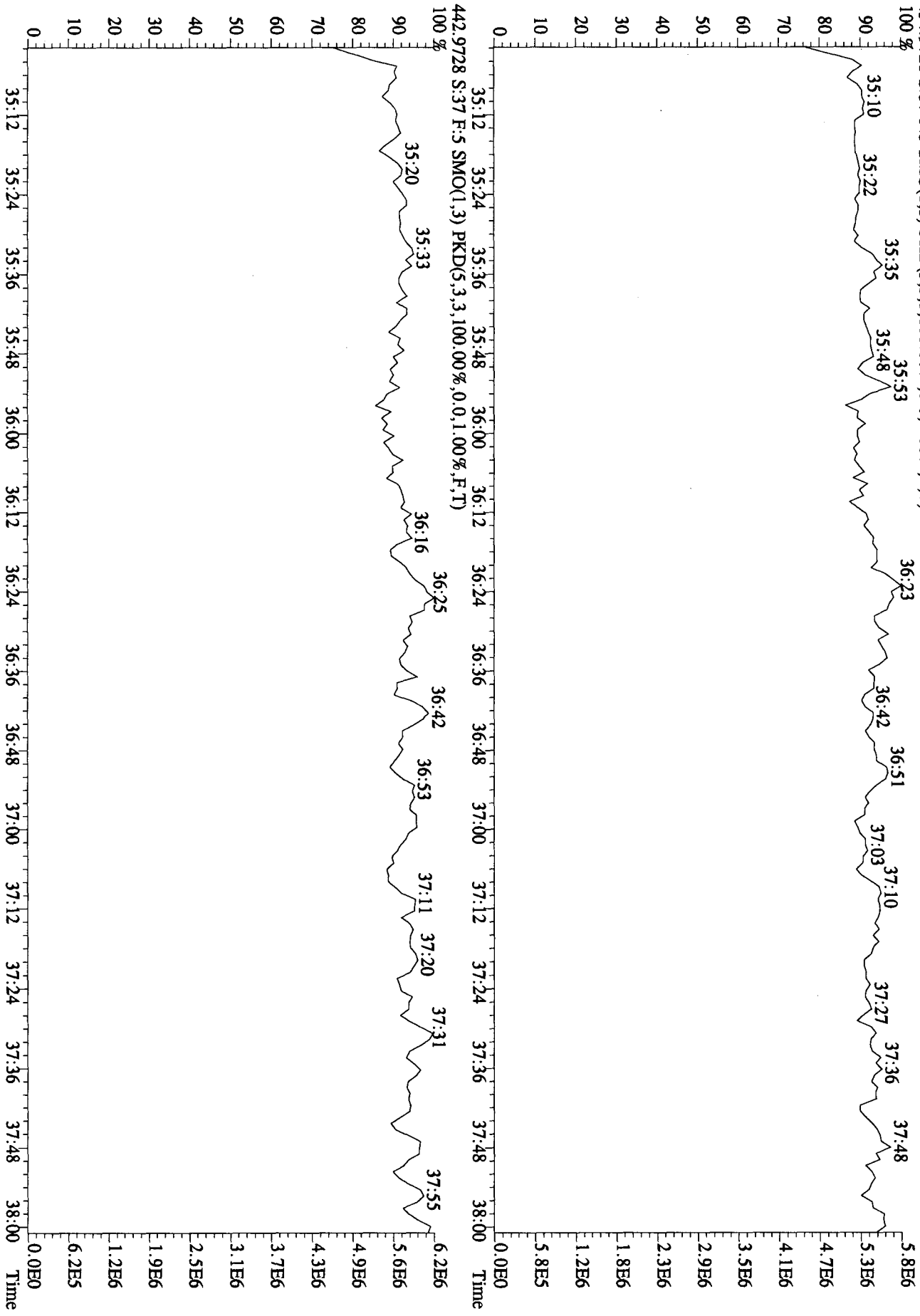
409.7789 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,992,0,1,00%,F,T)



479.7165 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,268,0,1,00%,F,T)



File: 02NO10A1D5 #1-197 Acq: 3-NOV-2010 16:18:03 GC EI+ Voltage SIR 70SE
 Sample#37 Text: L84Q3-1-AA :G0J260480-17 Exp: DIOXINRES
 454.9728 S:37 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L84Q7-1-AA Sample text: L84Q7-1-AA :G0J260480-21
 Run #16 Filename: 02NO10A1D5 S: 38 I: 1 Results: 02no10ald5to9os
 Acquired: 3-NOV-10 17:00:54 Processed: 3-NOV-10 19:38:08
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

05
11-8-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	31574000	0.80 y	17:56	-	36.931	-	-	n
13C-2,3,7,8-TCDF	48877700	0.83 y	17:25	1.57	3932.772	0.457	98.3	n
2,3,7,8-TCDF	2167367	0.80 y	17:27	0.88	202.133	3.300	-	n
Total TCDF	19756537	0.26 n	14:27	0.88	1842.535 1834.021	3.300	-	n
13C-2,3,7,8-TCDD	25658300	0.86 y	18:08	0.99	3285.660	1.781	82.1	n
2,3,7,8-TCDD	25297	0.52 n	18:08	0.94	5/22.5 4.195	2.344	-	n
Total TCDD	862093	0.97 n	15:18	0.94	142.950 104.56	2.344	-	n
37Cl-2,3,7,8-TCDD	13596740	1.00 y	18:09	1.18	1800.871	1.161	112.6	n
13C-1,2,3,7,8-PeCDF	28850600	1.68 y	22:29	1.15	3166.093	0.522	79.2	n
1,2,3,7,8-PeCDF	359711	1.86 n	22:30	1.03	48.458	6.828	-	n
2,3,4,7,8-PeCDF	234944	1.32 y	23:50	0.95	34.398	7.420	-	n
Total F2 PeCDF	3680236	1.61 y	20:57	0.99	515.814 511.064	7.112	-	n
Total F1 PeCDF	323131	0.15 n	14:23	0.99	547.034 45.341 35.97	2.347	-	n
13C-1,2,3,7,8-PeCDD	15101460	1.55 y	24:32	0.67	2868.249	0.175	71.7	n
1,2,3,7,8-PeCDD	27365	1.85 n	24:33	0.96	5/22.5 7.542	6.585	-	n
Total PeCDD	302418	0.17 n	20:52	0.96	83.354	6.585 24.71	-	n
13C-1,2,3,7,8,9-HxCDD	26448300	1.30 y	30:50	-	39.344	-	-	n
13C-1,2,3,4,7,8-HxCDF	31429600	0.47 y	29:34	1.15	4139.589	3.504	103.5	n
1,2,3,4,7,8-HxCDF	584015	1.38 y	29:34	1.22	60.972	4.436	-	y
1,2,3,6,7,8-HxCDF	468779	1.20 y	29:43	1.41	42.399	3.843	-	y
2,3,4,6,7,8-HxCDF	47052	3.06 n	30:19	1.23	5/22.5 4.860	4.389	-	y
1,2,3,7,8,9-HxCDF	81054	1.59 n	31:06	1.08	9.518	4.990	-	n
Total HxCDF	2835649	1.72 n	28:01	1.24	288.202 283.342	4.377	-	y
13C-1,2,3,6,7,8-HxCDD	21647420	1.34 y	30:33	0.96	3414.424	0.942	85.4	n
1,2,3,4,7,8-HxCDD	22192	0.73 n	30:28	0.89	4.622	3.297	-	n
1,2,3,6,7,8-HxCDD	33090	0.91 n	30:33	1.05	5/22.5 5.829	2.789	-	n
1,2,3,7,8,9-HxCDD	39382	1.42 y	30:50	1.00	7.242	2.911	-	n
Total HxCDD	264539	1.30 y	28:56	0.98	49.712	2.984 8.73	-	n
13C-1,2,3,4,6,7,8-HpCDF	20846390	0.43 y	32:27	0.98	3203.002	11.772	80.1	n
1,2,3,4,6,7,8-HpCDF	1064156	1.09 y	32:28	1.33	153.361	6.809	-	n
1,2,3,4,7,8,9-HpCDF	380453	1.00 y	33:41	1.12	65.236	8.101	-	n
Total HpCDF	2035330	1.09 y	32:28	1.23	311.109	7.399	-	n
13C-1,2,3,4,6,7,8-HpCDD	16340580	1.11 y	33:20	0.82	2997.691	13.512	74.9	n
1,2,3,4,6,7,8-HpCDD	101554	0.94 y	33:20	1.05	23.718	4.418	-	n
Total HpCDD	172764	1.25 n	32:44	1.05	40.349 23.718	4.418	-	n
13C-OCDD	17936880	0.92 y	35:57	0.54	5006.820	8.067	62.6	n
OCDF	1373743	0.89 y	36:04	1.58	387.813	13.558	-	n

OCDD

81996 1.06 n 35:56 1.13

32.274 5,8

6.490

- n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:21
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1

Amount: 921.27 of which 101.07 named and 820.20 unnamed
 Conc: 1842.53 of which 202.13 named and 1640.40 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:27	0.26 n	0.69	3210 12346	3.2 1.5	y n	n n
	2	14:39	0.39 n	1.40	6513 16850	3.4 1.9	y n	n n
	3	14:58	0.76 y	125.87	581462 768153	442.3 86.8	y y	n n
	4	15:19	0.77 y	38.64	179701 234642	124.3 22.4	y y	n n
	5	15:30	0.76 y	31.13	144280 189517	91.6 18.5	y y	n n
	6	15:45	0.78 y	396.76	1857690 2396560	1171.1 202.8	y y	n n
	7	15:59	0.86 y	202.21	1003700 1164460	577.3 88.1	y y	n n
	8	16:18	0.77 y	138.30	643383 839561	267.7 47.8	y y	n n
	9	16:32	0.80 y	156.32	744503 931645	436.1 82.0	y y	n n
	10	16:47	0.74 y	126.62	578843 778831	306.9 64.2	y y	n n
	11	16:53	0.70 y	172.92	764505 1089630	501.9 93.1	y y	n n
	12	17:03	0.85 y	152.52	752099 883274	491.8 83.0	y y	n n
	13	17:15	0.87 y	31.94	159310 183189	70.4 14.0	y y	n n
2,3,7,8-TCDF	14	17:27	0.80 y	202.13	961047 1206320	503.9 91.2	y y	n n
	15	17:53	1.14 n	20.36	140730 123341	62.3 9.4	y y	n n

16	18:06	0.95	n	17.48	100256	47.1	y	n
					105872	6.8	y	n
17	18:20	0.89	n	9.94	53796	37.2	y	n
					60206	4.4	y	n
18	18:27	1.68	n	1.90	19260	17.1	y	n
					11484	1.2	n	n
19	19:16	1.08	n	10.89	71160	28.4	y	n
					65957	5.6	y	n
20	19:34	0.21	n	1.29	6032	5.5	y	n
					28147	1.7	n	n
21	20:07	0.71	y	3.23	14342	5.7	y	n
					20332	2.2	n	n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:15
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1q

Amount: 71.48 of which 2.10 named and 69.38 unnamed
 Conc: 142.95 of which 4.19 named and 138.76 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.97	n 3.58	11792 12181	7.5 2.8	y n	n n
	2	15:53	0.69	y 36.14	89195 128779	54.2 36.6	y y	n n
	3	16:11	0.85	y 46.67	129346 152135	102.2 43.1	y y	n n
	4	16:25	0.37	n 3.19	8379 22478	9.5 7.7	y y	n n
	5	16:59	0.79	y 21.75	58080 73067	31.9 19.6	y y	n n
	6	17:24	1.78	n 3.72	22540 12672	12.7 4.4	y y	n n
	7	17:36	0.76	y 4.05	10539 13914	10.1 4.7	y y	n n
	8	18:03	1.21	n 8.16	33555 27792	34.6 6.4	y y	n n
2,3,7,8-TCDD	9	18:08	0.52	n 4.19	11005 21293	11.4 4.6	y y	n n
	10	18:20	1.20	n 1.83	7492 6224	6.1 1.9	y n	n n
	11	18:34	0.49	n 3.09	8118 16453	8.0 4.5	y y	n n
	12	18:49	1.82	n 1.63	10080 5545	5.8 2.2	y n	n n
	13	19:02	1.59	n 1.40	7604 4780	8.2 1.6	y n	n n
	14	20:18	1.66	n 1.97	11140 6703	10.5 1.8	y n	n n
	15	20:25	0.71	y 1.57	3922 5558	4.5 2.2	y n	n n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:12
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 257.91 of which 41.43 named and 216.48 unnamed
 Conc: 515.81 of which 82.86 named and 432.96 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:57	1.61 y	50.18	220756 136865	37.4 12.4	y	n
	2	21:08	1.62 y	174.57	769205 474917	120.5 33.7	y	n
	3	21:23	1.88 n	28.11	147391 78567	24.6 5.9	y	n
	4	21:39	1.80 n	23.93	120309 66889	21.1 5.5	y	n
	5	22:01	1.29 n	63.31	274246 213092	37.3 13.2	y	n
	6	22:22	2.67 n	16.02	119768 44783	19.5 5.0	y	n
1,2,3,7,8-PeCDF	7	22:30	1.86 n	48.46	262327 141063	43.9 10.8	y	n
	8	22:49	2.25 n	11.27	70748 31506	13.1 2.8	y	n
	9	23:02	1.70 y	40.53	181662 107151	26.5 9.3	y	n
2,3,4,7,8-PeCDF	10	23:50	1.32 y	34.40	133727 101217	19.5 5.9	y	n
	11	24:10	1.25 n	20.28	87872 70431	13.6 4.8	y	n
	12	24:39	0.69 n	4.75	20566 29995	5.6 2.2	y	n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:13
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 22.67 of which * named and 22.67 unnamed
 Conc: 45.34 of which * named and 45.34 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:23	0.15	n 0.42	1834 11872	2.1 3.3	n y	n n
	2	15:23	0.08	n 0.44	1901 23951	1.2 11.3	n y	n n
	3	16:28	0.45	n 1.00	4313 9598	5.0 2.9	y n	n n
	4	16:35	0.09	n 0.19	835 9598	0.7 2.9	n n	n n
	5	17:19	0.24	n 0.65	2798 11631	2.5 4.3	n y	n n
	6	17:37	3.41	n 0.85	8083 2374	8.5 1.3	y n	n n
	7	18:25	0.48	n 0.96	4170 8750	2.9 3.6	n y	n n
	8	18:46	2.94	n 1.01	8296 2822	10.0 0.9	y n	n n
	9	19:05	0.96	n 1.36	5895 6173	4.0 2.6	y n	n n
	10	19:19	1.63	y 1.41	6251 3828	4.8 1.9	y n	n n
	11	19:36	1.47	y 35.97	152493 103848	111.1 29.5	y y	n n
	12	19:58	0.31	n 0.65	2825 8992	2.5 2.6	n n	n n
	13	20:12	0.45	n 0.43	1847 4074	1.6 1.5	n n	n n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:15
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1

Amount: 41.68 of which 3.77 named and 37.91 unnamed
 Conc: 83.35 of which 7.54 named and 75.81 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:52	0.17	n 0.42	932 5452	0.3 4.7	n y	n n
	2	20:59	1.55	y 4.40	9719 6259	3.1 5.0	y y	n n
	3	21:23	1.39	y 24.71	52131 37517	9.1 13.3	y y	n n
	4	22:02	4.64	n 1.83	12121 2610	2.5 2.9	n n	n n
	5	22:33	1.13	n 7.92	17469 15402	3.8 7.8	y y	n n
	6	22:38	2.69	n 1.34	5118 1905	1.7 1.6	n n	n n
	7	22:47	1.19	n 3.35	7381 6200	1.6 3.7	n y	n n
	8	23:04	0.71	n 9.71	21424 30146	4.1 16.3	y y	n n
	9	23:48	1.35	y 3.44	7176 5312	1.9 5.5	n y	n n
	10	24:06	0.93	n 6.05	13337 14268	2.8 9.7	n y	n n
	11	24:10	2.93	n 2.87	11975 4086	2.8 4.0	n y	n n
	12	24:25	6.87	n 1.32	12884 1876	3.9 1.6	y n	n n
1,2,3,7,8-PeCDD	13	24:33	1.85	n 7.54	19853 10731	2.7 6.3	n y	n n
	14	26:37	1.02	n 3.85	8486 8350	2.4 6.0	n y	n n
	15	26:41	1.21	n 4.59	10128 8350	3.4 6.0	y y	n n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 147.40 of which 69.87 named and 77.53 unnamed
 Conc: 294.80 of which 139.74 named and 155.06 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:01	1.72 n	28.07	209787 121668	16.2 15.1	y	n
	2	28:17	1.21 y	64.91	345451 284722	27.8 33.4	y	n
	3	28:49	0.94 n	8.15	43803 46812	6.5 6.2	y	n
	4	29:03	1.59 n	6.58	45443 28504	4.7 6.0	y	n
1,2,3,4,7,8-HxCDF	5	29:34	1.36 y	76.01	419827 308214	43.4 48.9	y	n
1,2,3,6,7,8-HxCDF	6	29:43	1.19 y	42.22	253816 213007	29.3 37.0	y	n
	7	29:50	1.17 y	14.75	77258 65943	8.5 9.5	y	n
	8	30:05	1.69 n	17.54	128744 75998	11.0 5.4	y	n
	9	30:16	0.59 n	10.20	54816 92753	7.4 8.9	y	n
2,3,4,6,7,8-HxCDF	10	30:19	0.69 n	11.99	64246 92753	7.1 8.9	y	n
	11	31:01	0.70 n	4.86	26107 37407	4.3 6.6	y	n
1,2,3,7,8,9-HxCDF	12	31:06	1.59 n	9.52	57364 36185	6.1 7.4	y	n

*See
6A*

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:13
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 144.10 of which 58.87 named and 85.23 unnamed
 Conc: 288.20 of which 117.75 named and 170.45 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:01	1.72 n	28.07	209787 121668	16.2 15.1	y	n
	2	28:17	1.21 y	64.91	345451 284722	27.8 33.4	y	n
	3	28:49	0.94 n	8.15	43803 46812	6.5 6.2	y	n
	4	29:03	1.59 n	6.58	45443 28504	4.7 6.0	y	n
	5	29:32	1.32 y	15.39	85119 64326	24.9 21.7	y	y
1,2,3,4,7,8-HxCDF	6	29:34	1.38 y	60.97	338516 245499	43.5 49.0	y	y
1,2,3,6,7,8-HxCDF	7	29:43	1.20 y	42.40	255544 213235	29.5 37.1	y	y
	8	29:50	1.17 y	14.75	77258 65943	8.5 9.5	y	n
	9	30:05	1.69 n	17.54	128744 75998	11.0 5.4	y	n
	10	30:16	0.75 n	10.20	54816 73221	7.4 9.0	y	n
2,3,4,6,7,8-HxCDF	11	30:19	3.06 n	4.86	64246 21005	7.1 4.9	y	n
	12	31:01	0.70 n	4.86	26107 37407	4.3 6.6	y	n
1,2,3,7,8,9-HxCDF	13	31:06	1.59 n	9.52	57364 36185	6.1 7.4	y	n

GA

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:11
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 24.86 of which 8.85 named and 16.01 unnamed
 Conc: 49.71 of which 17.69 named and 32.02 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:56	1.30	y 4.82	14444 11153	9.6 3.8	y	n
	2	29:36	1.94	n 8.73	40037 20669	27.7 4.7	y	n
	3	29:43	2.82	n 1.97	13135 4659	14.1 1.5	y	n
	4	29:52	2.15	n 6.27	31975 14847	16.5 3.1	y	n
	5	30:19	1.13	y 4.44	12489 11084	10.7 2.8	y	n
1,2,3,4,7,8-HxCDD	6	30:28	0.73	n 4.62	12285 16944	15.1 3.5	y	n
1,2,3,6,7,8-HxCDD	7	30:33	0.91	n 5.83	18318 20212	13.6 6.0	y	n
	8	30:46	0.41	n 2.26	6623 16294	5.4 3.6	y	n
1,2,3,7,8,9-HxCDD	9	30:50	1.42	y 7.24	23088 16294	22.7 3.6	y	n
	10	31:01	6.20	n 1.78	26144 4219	17.1 1.2	y	n
	11	31:54	1.48	n 1.75	6163 4151	4.9 1.3	y	n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1η

Amount: 155.55 of which 109.30 named and 46.26 unnamed
 Conc: 311.11 of which 218.60 named and 92.51 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:28	1.09	y	153.36	554500	73.9	y n
						509656	58.2	y n
	2	32:41	0.88	n	36.99	120428	16.4	y n
					136272	13.5	y n	
	3	32:48	1.13	y	55.52	188309	24.4	y n
						166188	20.2	y n
1,2,3,4,7,8,9-HpCDF	4	33:41	1.00	y	65.24	190408	20.9	y n
						190045	17.7	y n

Run Text: L84Q7-1-AA

Sample text: L84Q7-1-AA :G0J260480-21

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:6
 Run: 16 File: 02NO10A1D5 S:38 Acq:3-NOV-10 17:00:54
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 20.17 of which 11.86 named and 8.32 unnamed
 Conc: 40.35 of which 23.72 named and 16.63 unnamed

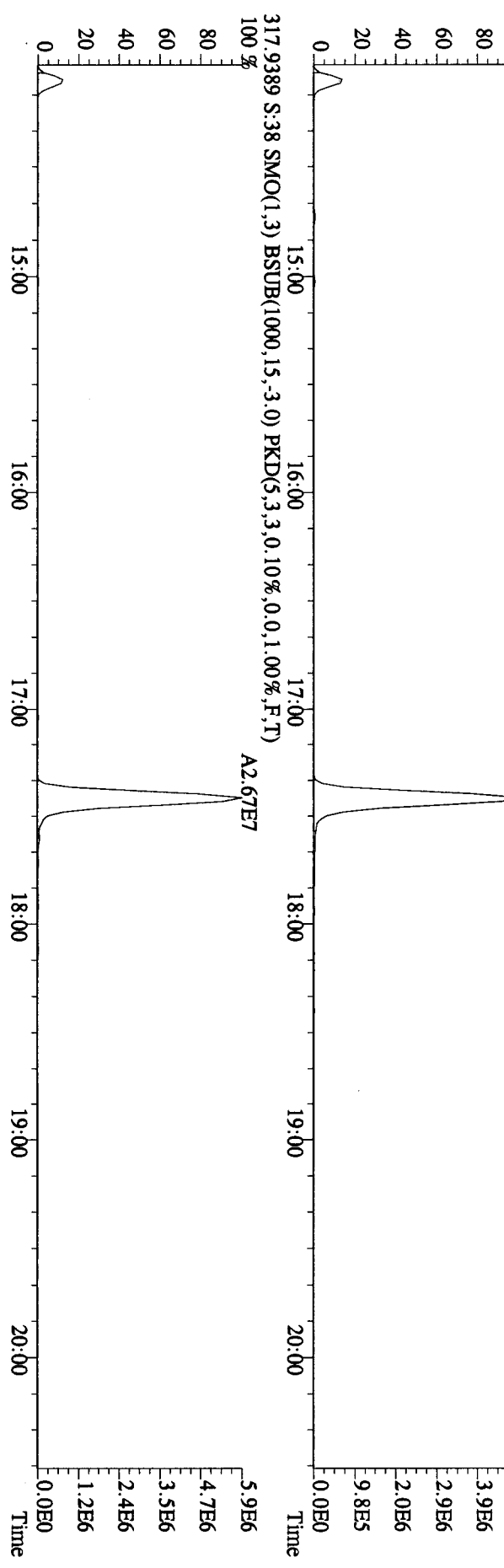
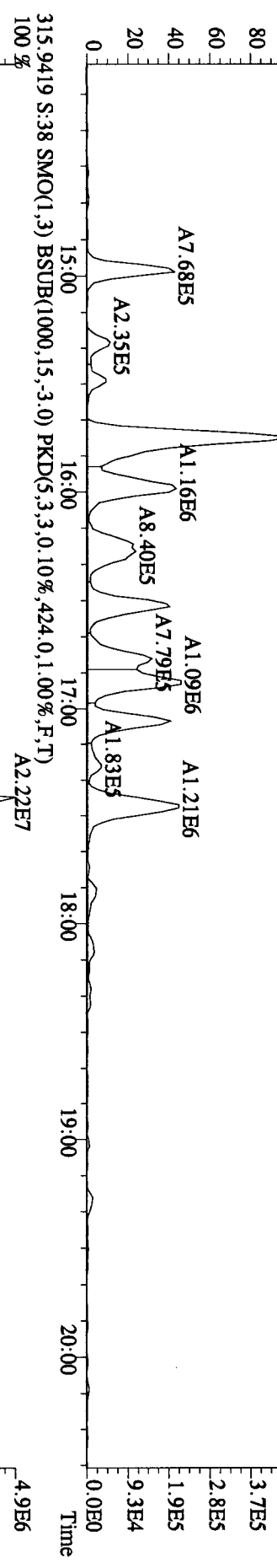
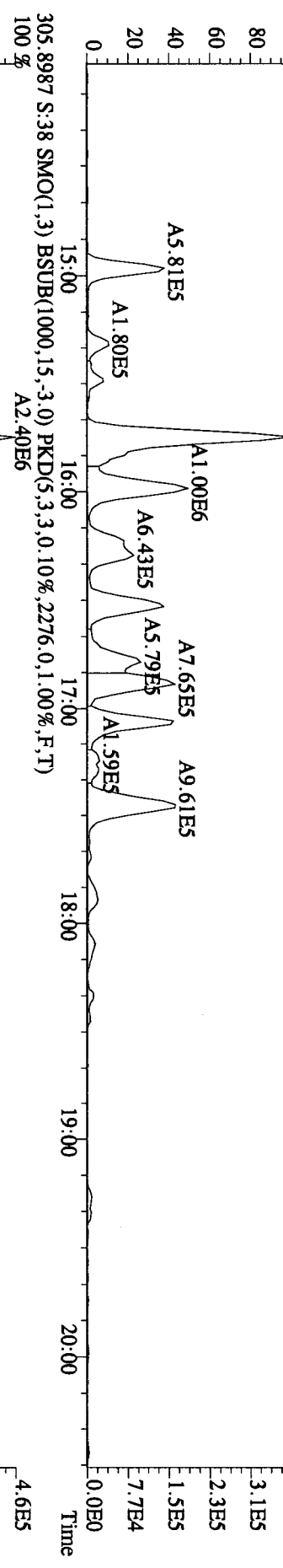
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:44	1.25	n	8.60	22510	5.4	y n
						18055	8.2	y n
	2	32:54	1.24	n	2.29	5956	2.3	n n
						4803	2.5	n n
1,2,3,4,6,7,8-HpCDD	3	33:20	0.94	y	23.72	49313	10.5	y n
						52241	17.9	y n
	4	34:06	0.20	n	0.76	1654	0.4	n n
						8284	2.6	n n
	5	34:15	0.54	n	1.91	4165	1.2	n n
						7708	4.5	y n
'6	6	34:52	0.89	y	3.07	6216	1.8	n n
						6950	3.0	n n

Run text: L84Q7-1-AA Sample text: L84Q7-1-AA :G0J260480-21
 Run #16 Filename: 02NO10A1D5 S: 38 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 17:00:54 Processed: 3-NOV-10 19:38:08
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

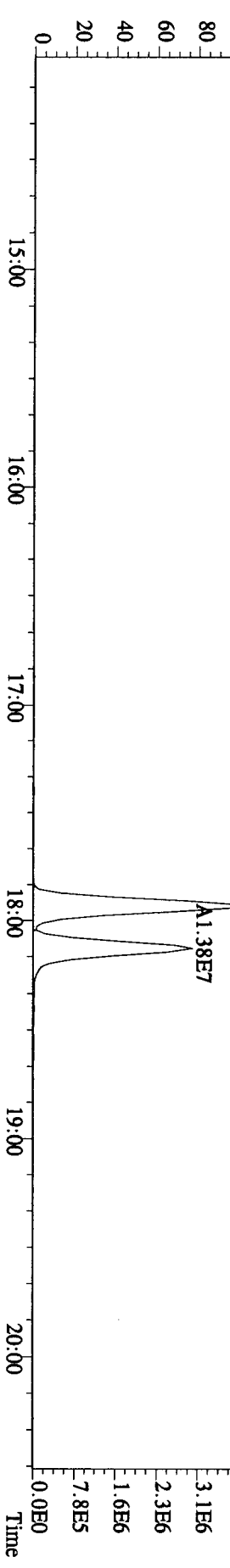
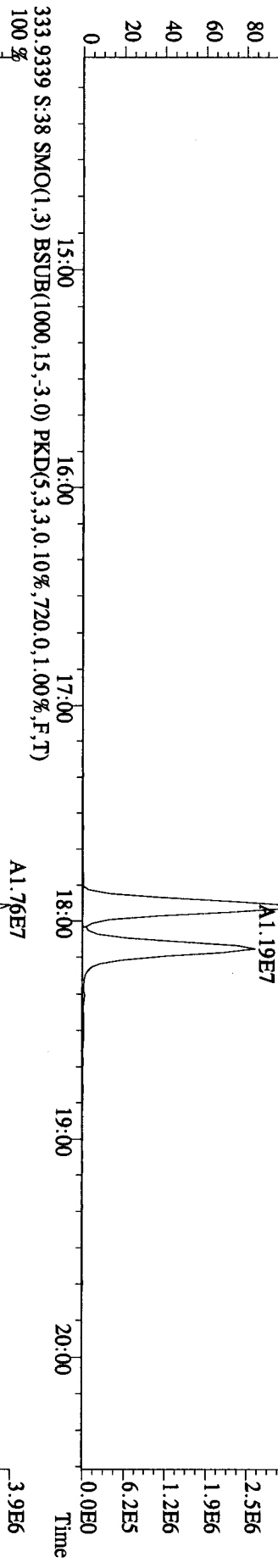
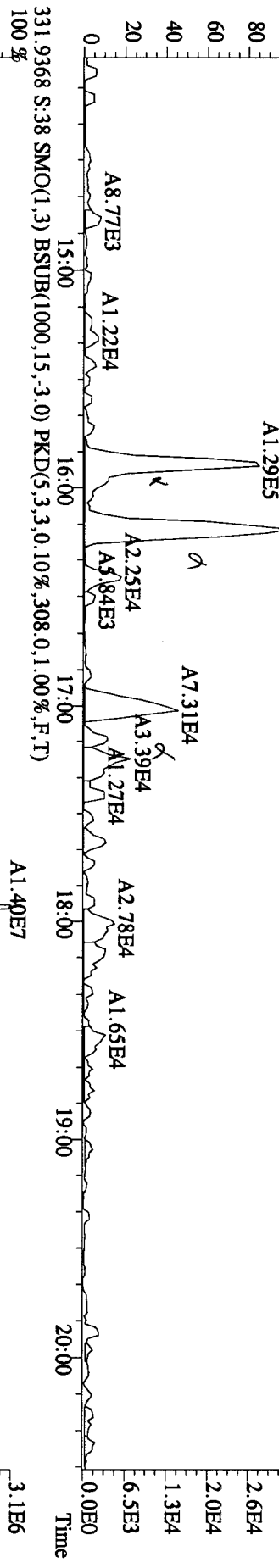
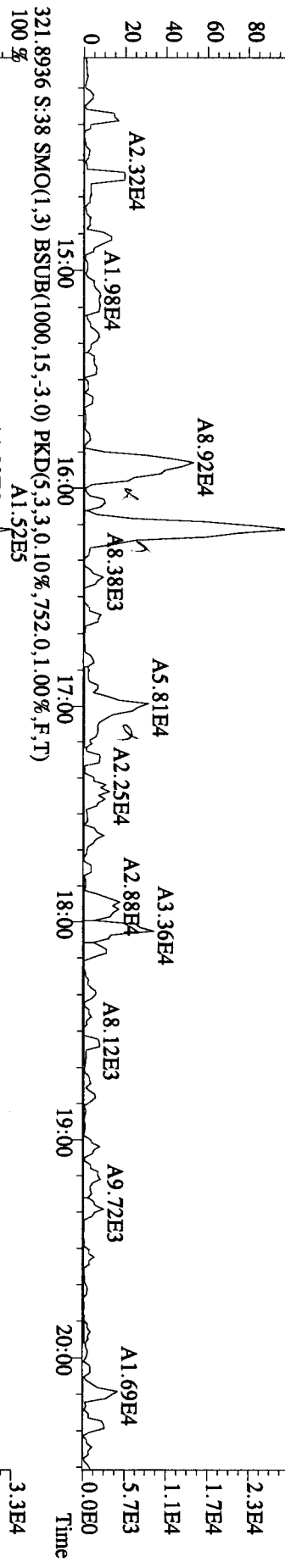
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	31574000	0.80 y	17:56	-	36.931	-	-	n
13C-2,3,7,8-TCDF	48877700	0.83 y	17:25	1.57	3932.772	0.457	98.3	n
2,3,7,8-TCDF	2167367	0.80 y	17:27	0.88	202.133	3.300	-	n
Total TCDF	19756537	0.26 n	14:27	0.88	1842.535	3.300	-	n
13C-2,3,7,8-TCDD	25658300	0.86 y	18:08	0.99	3285.660	1.781	82.1	n
2,3,7,8-TCDD	25297	0.52 n	18:08	0.94	4.195	2.344	-	n
Total TCDD	862093	0.97 n	15:18	0.94	142.950	2.344	-	n
37Cl-2,3,7,8-TCDD	13596740	1.00 y	18:09	1.18	1800.871	1.161	112.6	n
13C-1,2,3,7,8-PeCDF	28850600	1.68 y	22:29	1.15	3166.093	0.522	79.2	n
1,2,3,7,8-PeCDF	359711	1.86 n	22:30	1.03	48.458	6.828	-	n
2,3,4,7,8-PeCDF	234944	1.32 y	23:50	0.95	34.398	7.420	-	n
Total F2 PeCDF	3680236	1.61 y	20:57	0.99	515.814	7.112	-	n
Total F1 PeCDF	323131	0.15 n	14:23	0.99	45.341	2.347	-	n
13C-1,2,3,7,8-PeCDD	15101460	1.55 y	24:32	0.67	2868.249	0.175	71.7	n
1,2,3,7,8-PeCDD	27365	1.85 n	24:33	0.96	7.542	6.585	-	n
Total PeCDD	302418	0.17 n	20:52	0.96	83.354	6.585	-	n
13C-1,2,3,7,8,9-HxCDD	26448300	1.30 y	30:50	-	39.344	-	-	n
13C-1,2,3,4,7,8-HxCDF	31429600	0.47 y	29:34	1.15	4139.589	3.504	103.5	n
1,2,3,4,7,8-HxCDF	728041	1.36 y	29:34	1.22	76.008	4.436	-	n
1,2,3,6,7,8-HxCDF	466823	1.19 y	29:43	1.41	42.222	3.843	-	n
2,3,4,6,7,8-HxCDF	116057	0.69 n	30:19	1.23	11.988	4.389	-	n
1,2,3,7,8,9-HxCDF	81054	1.59 n	31:06	1.08	9.518	4.990	-	n
Total HxCDF	2897280	1.72 n	28:01	1.24	294.796	4.377	-	n
13C-1,2,3,6,7,8-HxCDD	21647420	1.34 y	30:33	0.96	3414.424	0.942	85.4	n
1,2,3,4,7,8-HxCDD	22192	0.73 n	30:28	0.89	4.622	3.297	-	n
1,2,3,6,7,8-HxCDD	33090	0.91 n	30:33	1.05	5.829	2.789	-	n
1,2,3,7,8,9-HxCDD	39382	1.42 y	30:50	1.00	7.242	2.911	-	n
Total HxCDD	264539	1.30 y	28:56	0.98	49.712	2.984	-	n
13C-1,2,3,4,6,7,8-HpCDF	20846390	0.43 y	32:27	0.98	3203.002	11.772	80.1	n
1,2,3,4,6,7,8-HpCDF	1064156	1.09 y	32:28	1.33	153.361	6.809	-	n
1,2,3,4,7,8,9-HpCDF	380453	1.00 y	33:41	1.12	65.236	8.101	-	n
Total HpCDF	2035330	1.09 y	32:28	1.23	311.109	7.399	-	n
13C-1,2,3,4,6,7,8-HpCDD	16340580	1.11 y	33:20	0.82	2997.691	13.512	74.9	n
1,2,3,4,6,7,8-HpCDD	101554	0.94 y	33:20	1.05	23.718	4.418	-	n
Total HpCDD	172764	1.25 n	32:44	1.05	40.349	4.418	-	n
13C-OCDD	17936880	0.92 y	35:57	0.54	5006.820	8.067	62.6	n

OCDF	1373743	0.89	y	36:04	1.58	387.813	13.558	-	n
OCDD	81996	1.06	n	35:56	1.13	32.274	6.490	-	n

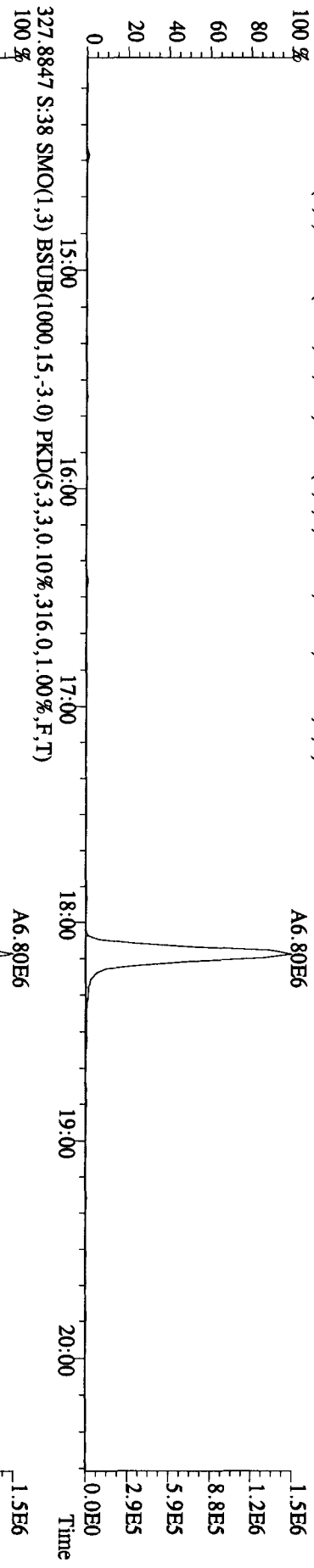
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 Sample#38 Text: L84Q7-1-AA :G0J260480-21 Exp: DIOXINRES
 303 9016 S:38 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,328,0.1,0.00%,F,T)
 100% A1.86E6



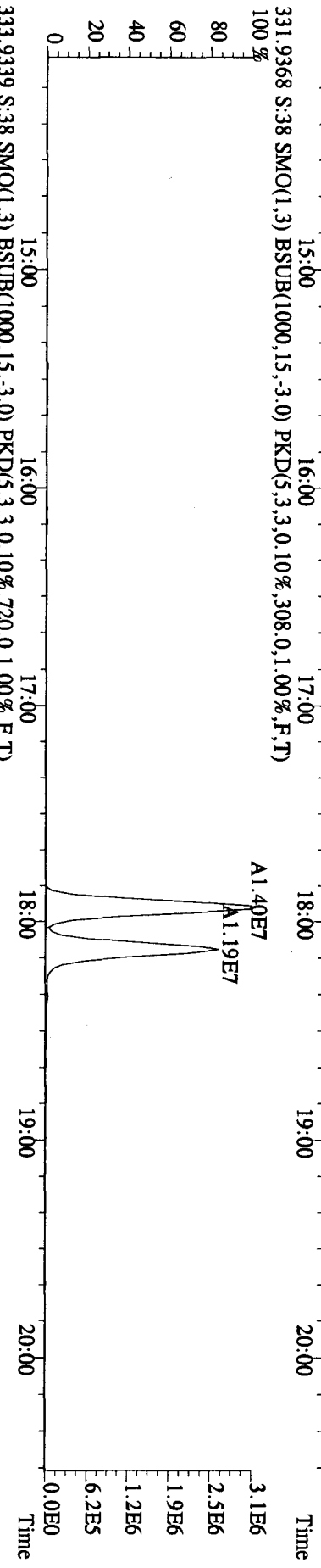
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 Sample#38 Text:L84Q7-1-AA :G01260480-21 Exp:DIOXINRES
 319.8965 S:38 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,280,0,1,00%,F,T)
 100 % A1.29E5



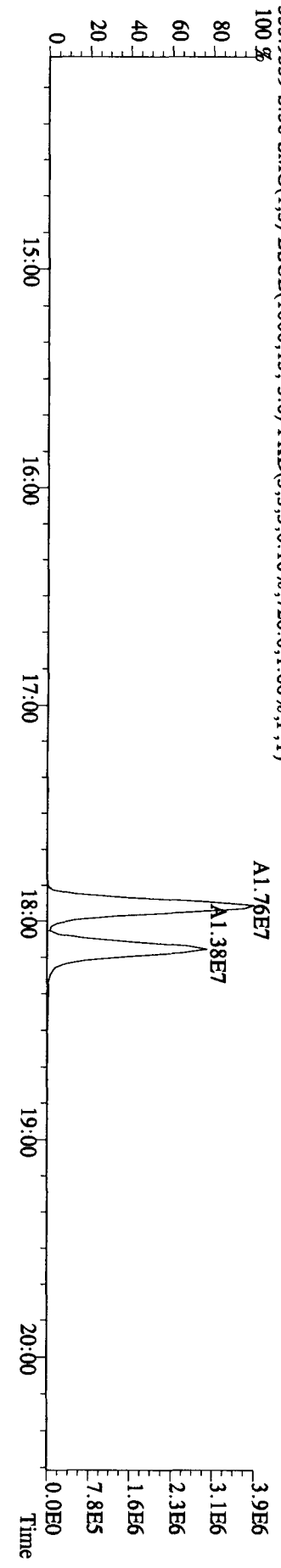
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 327.8847 S:38 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,316,0,1,00%,F,T)
 100%



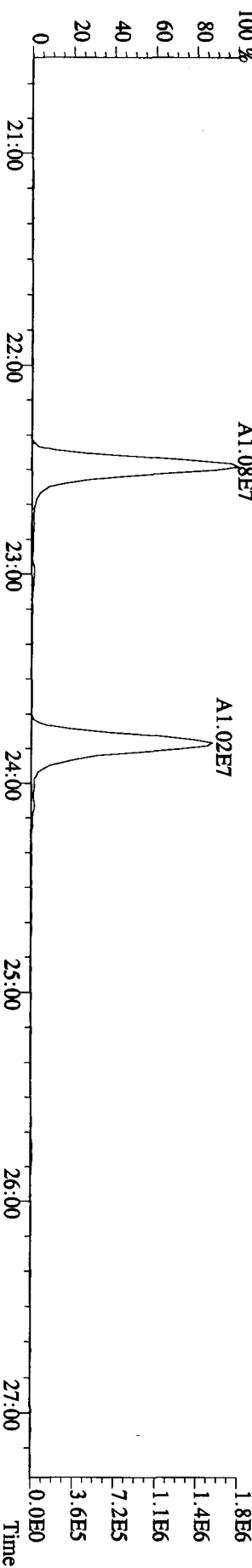
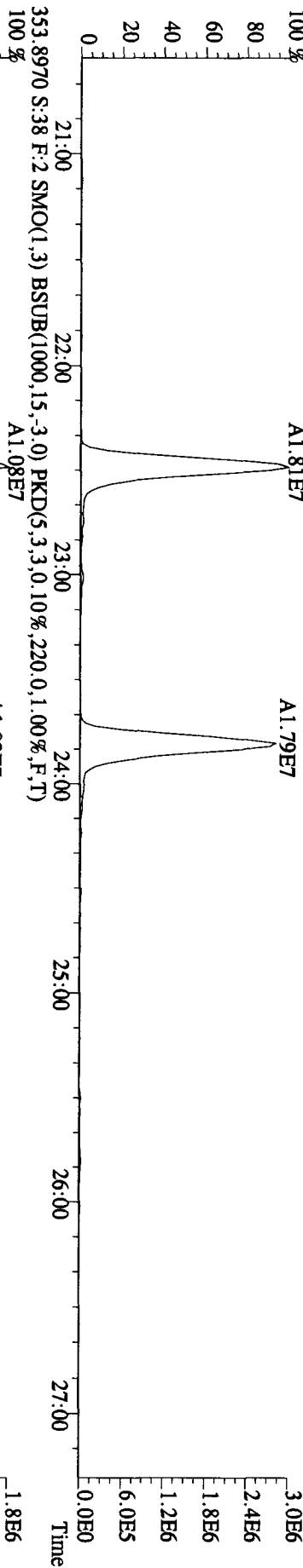
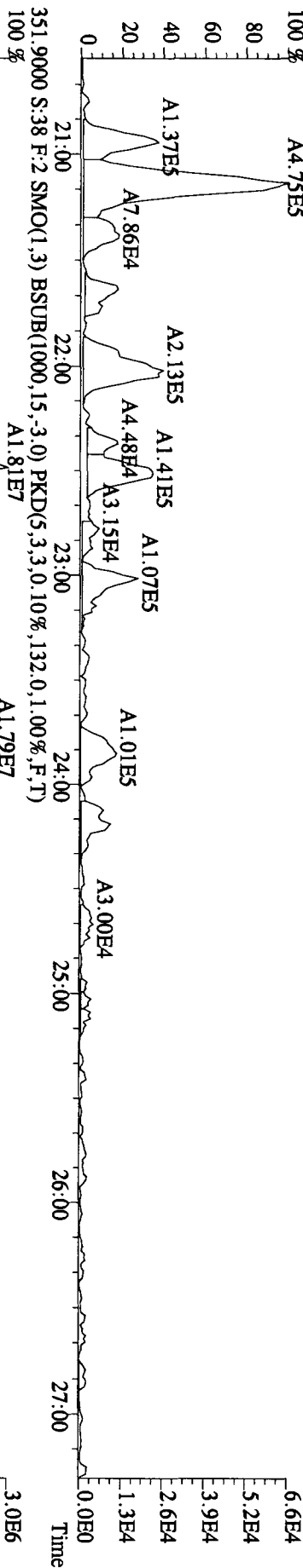
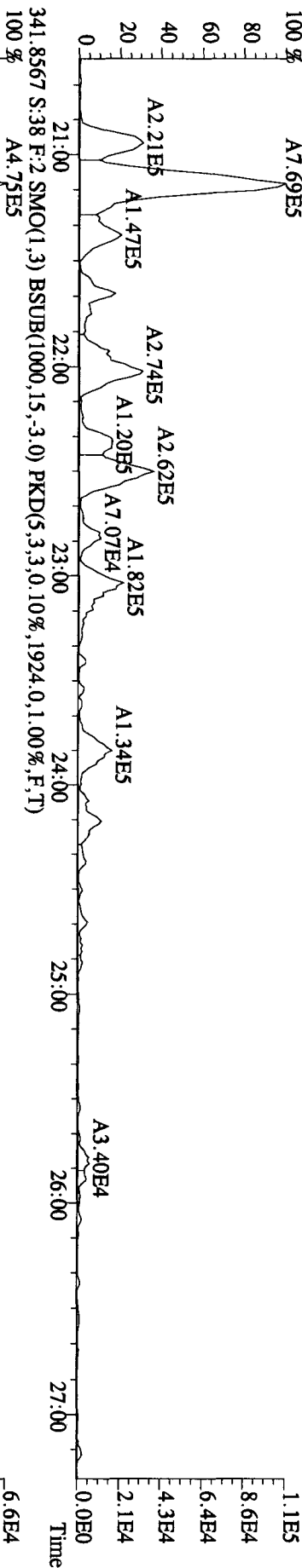
331.9368 S:38 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,308,0,1,00%,F,T)
 100%



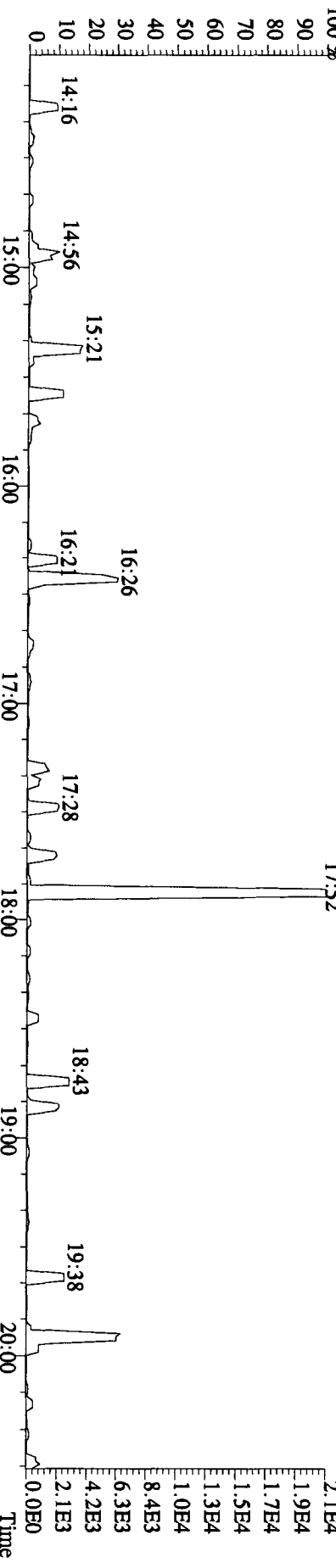
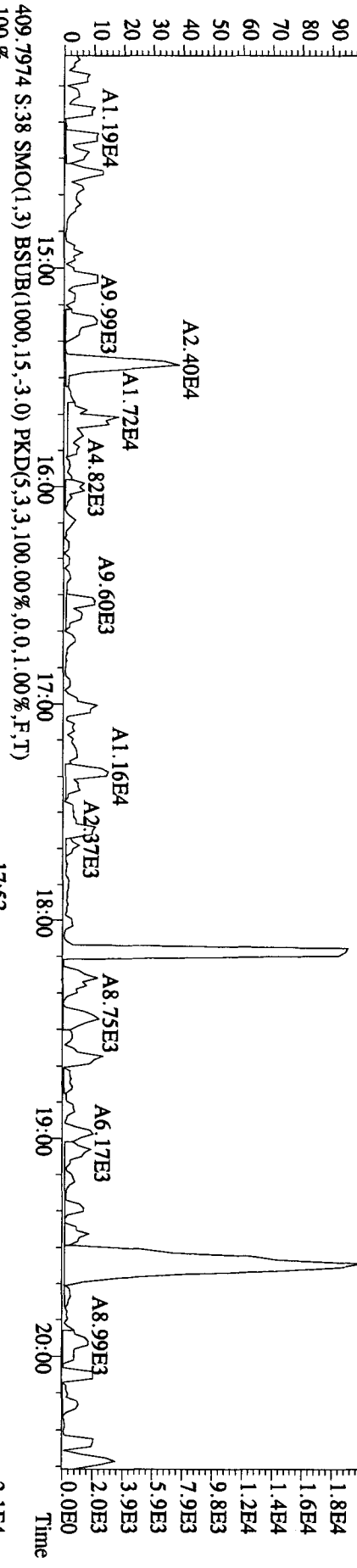
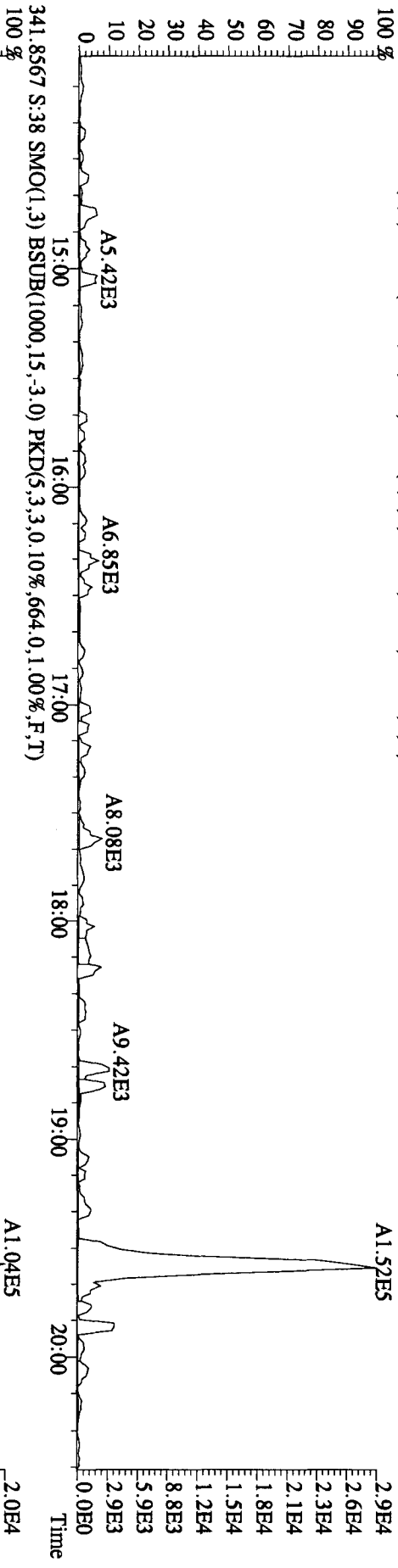
333.9339 S:38 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,720,0,1,00%,F,T)
 100%



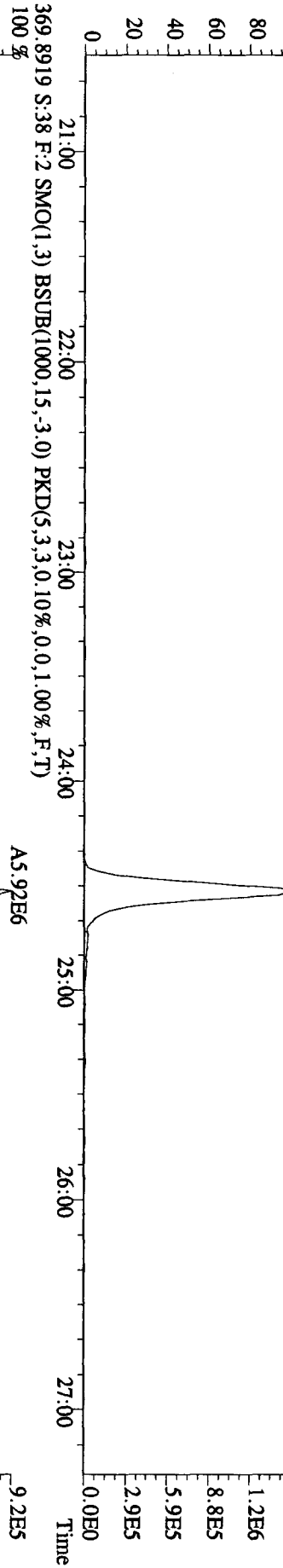
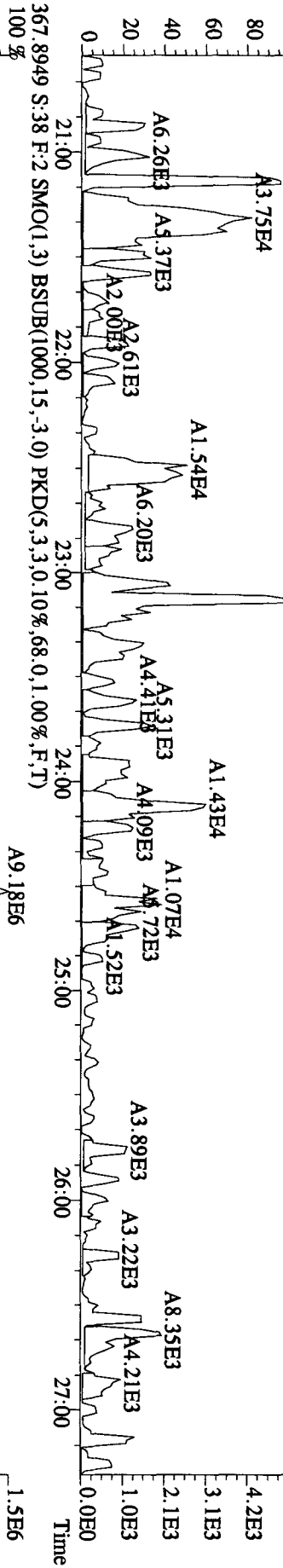
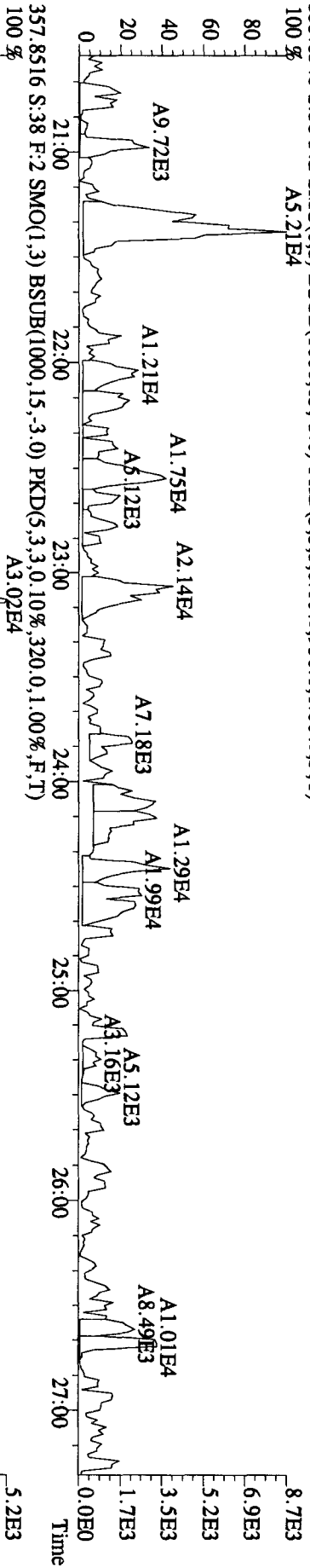
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 Sample#38 Text:L8407-1-AA :G0J260480-21 Exp:DIOXINRES
 339.8597 S:38 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,888,0,1.00%,F,T)



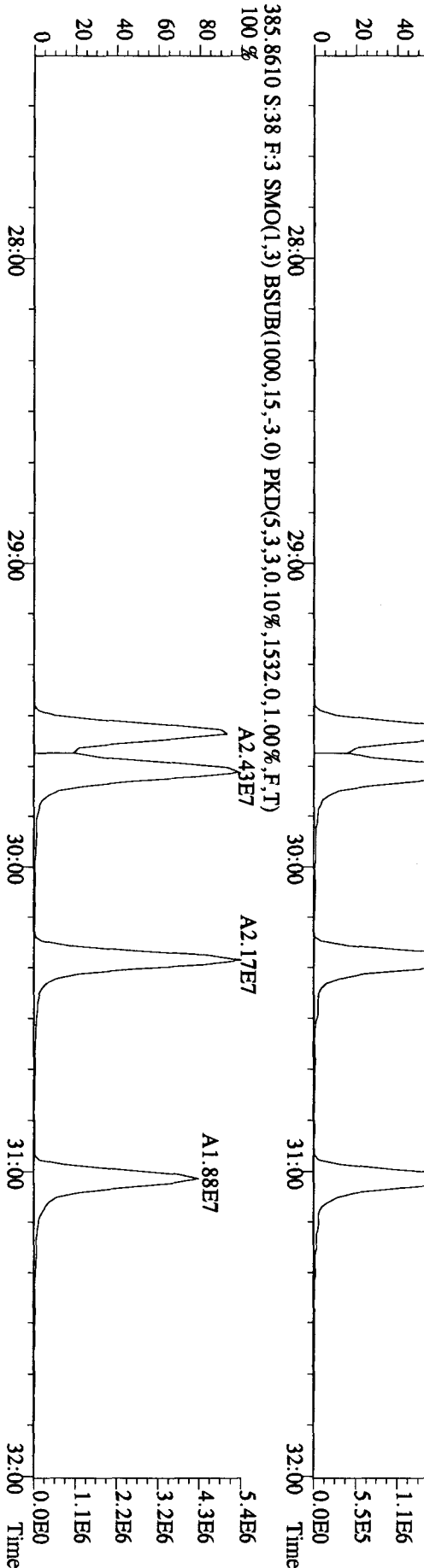
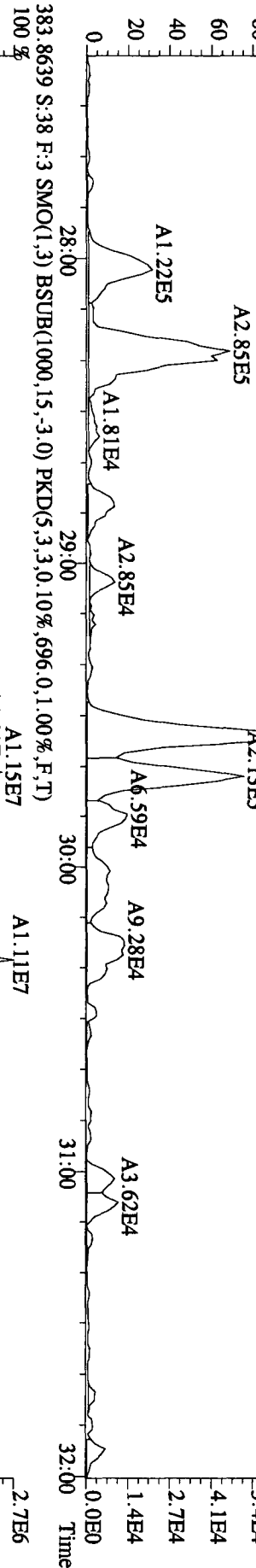
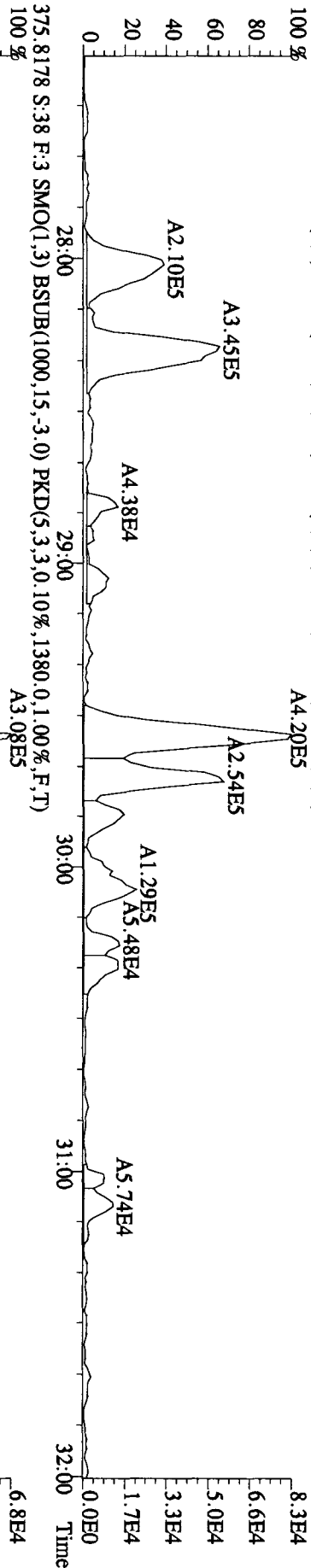
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 Sample#38 Text: L84Q7-1-AA : G0J260480-21 Exp: DIOXINRES
 339.8597 S:38 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,264.0,1.00%,F,T)



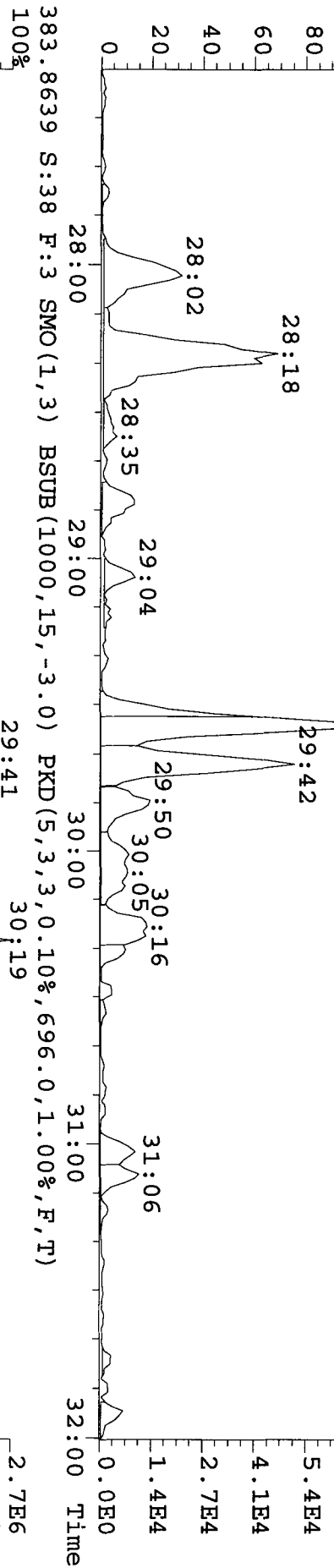
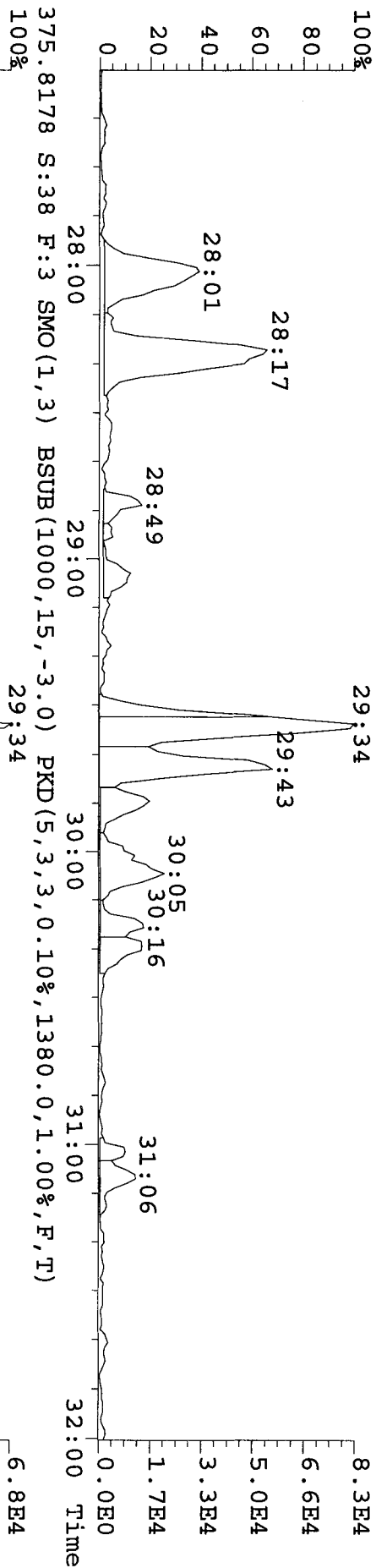
File: 02N010A1D5 #1-422 Acq: 3-NOV-2010 17:00:54 GC: EI + Voltage SIR 70SE
 Sample#38 Text: L8407-1-AA :G0J260480-21 Exp: DIOXINRES
 355.8546 S:38 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,936,0,1.00%,F,T)



File:02N010A1D5 #1-301 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage: SIR 70SE
 Sample#38 Text:18407-1-AA :G01260480-21 Exp:DIOXINRES
 373.8208 S:38 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1908,0,1,00%,F,T)
 100%



File: 02N010A1D5 #1-301 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text: L84Q7-1-AA : G0J260480-21 Exp: DIOXINRES
 373.8208 S:38 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1908.0,1.00%,F,T)

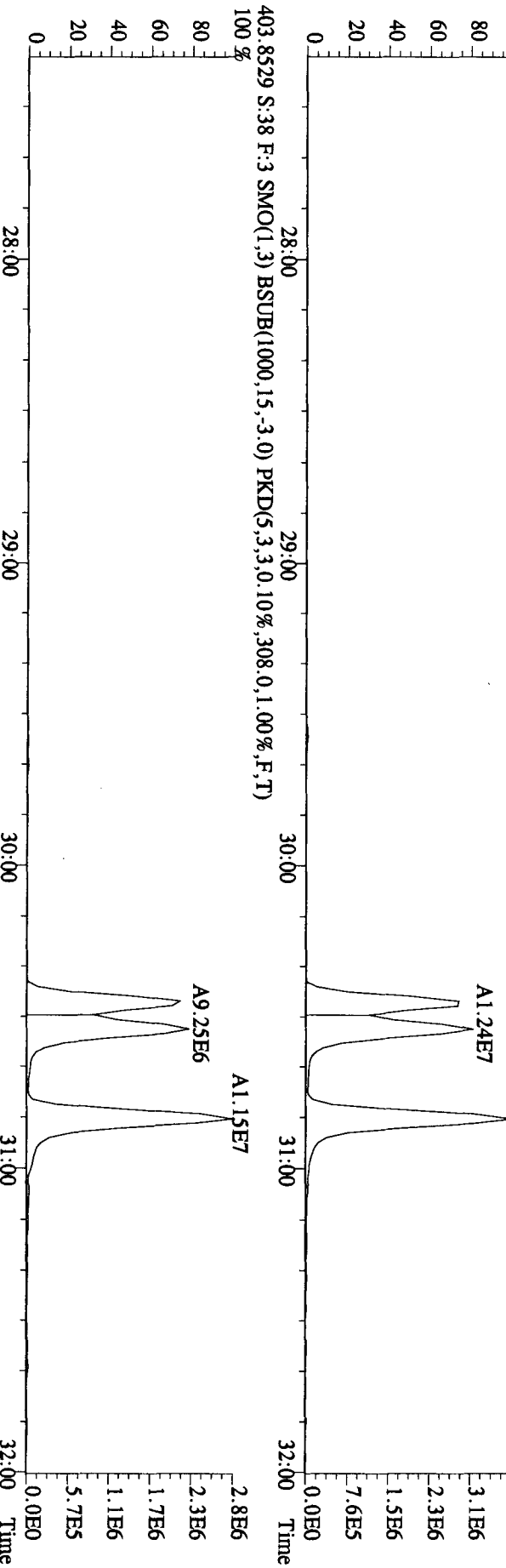
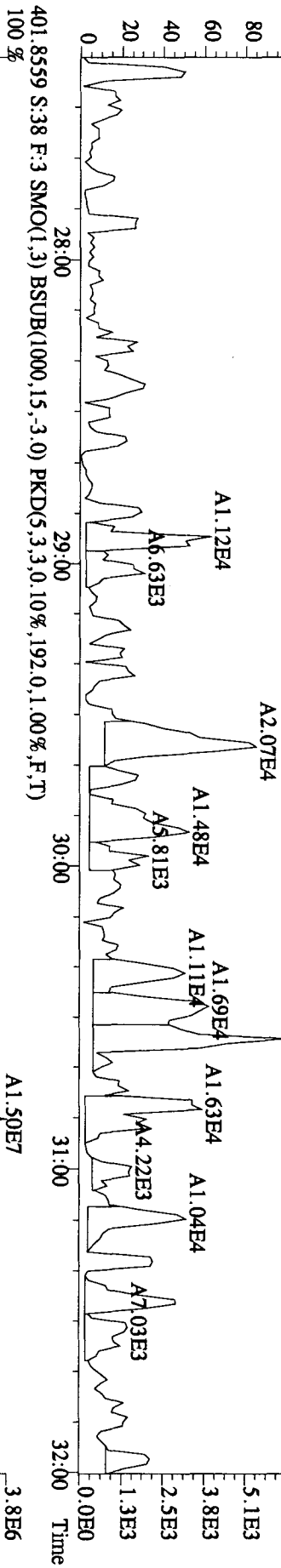
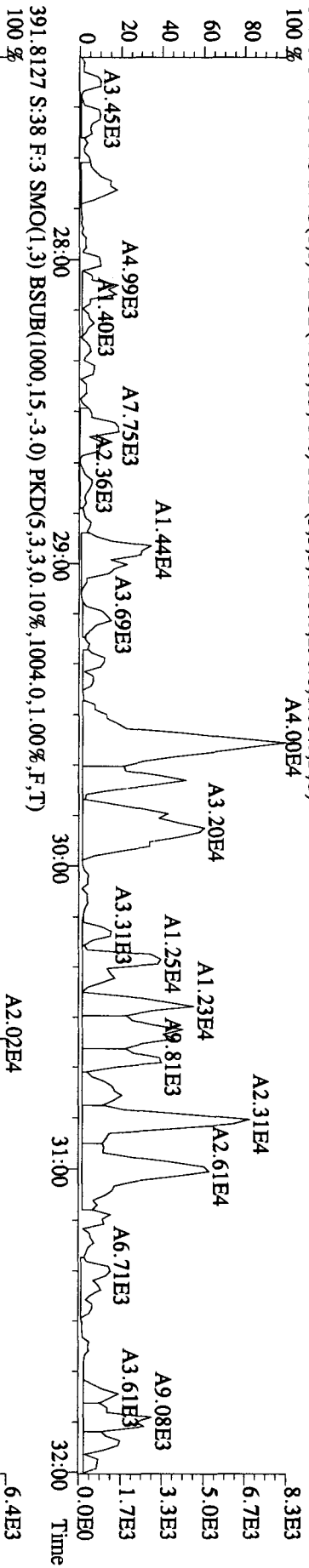


Manual Edit Codes

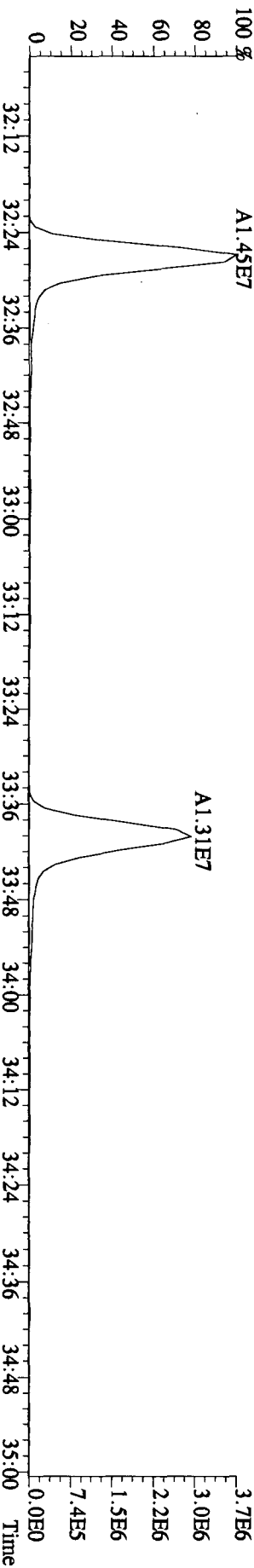
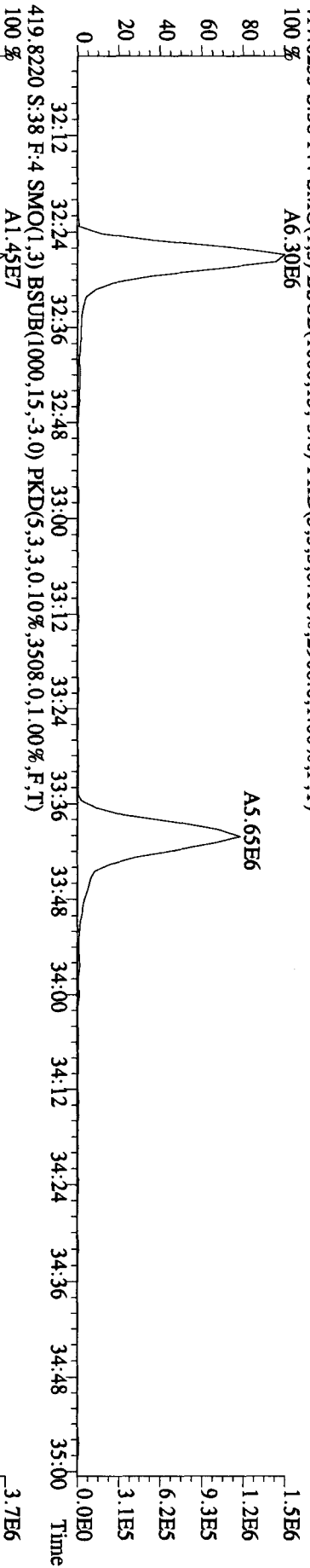
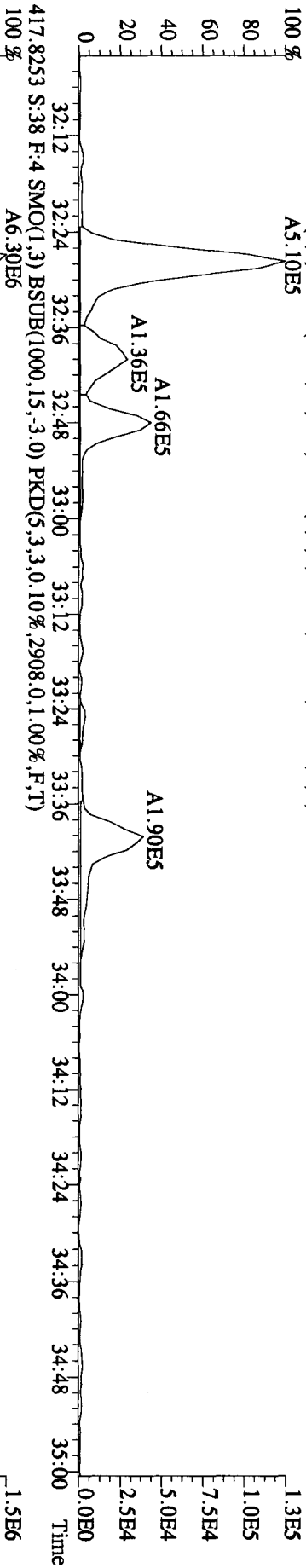
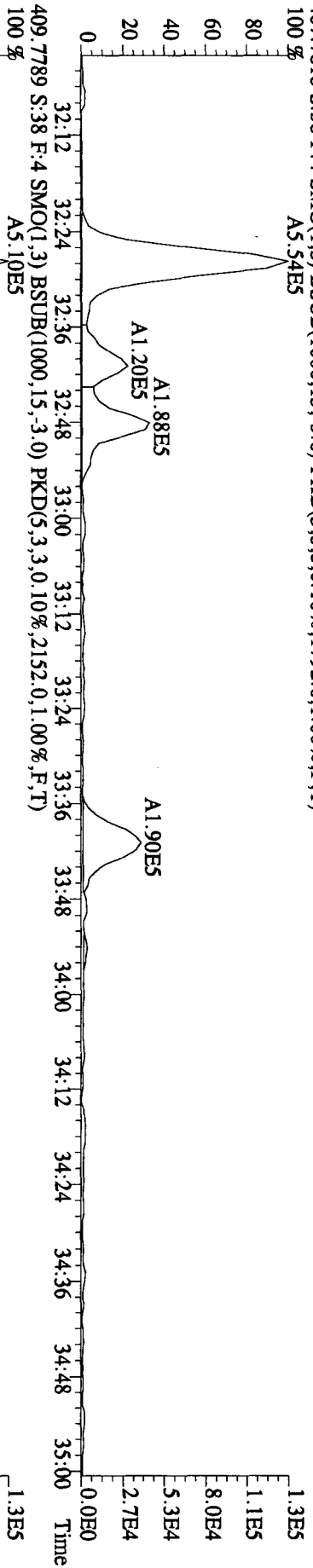
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

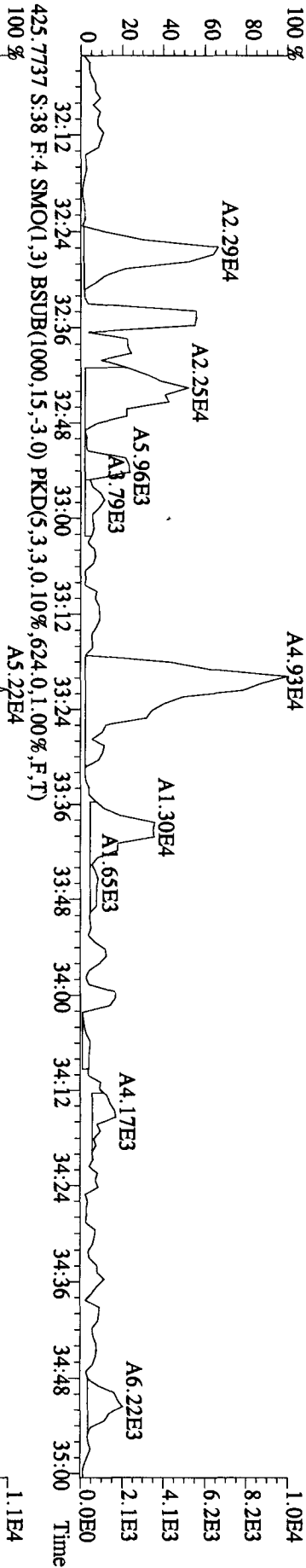
Analyst: Date: 11-8-10

File: 02NO10A1.DS #1-301 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text: L84Q7-1-AA :G0J260480-21 Exp: DIOXINRES
 389.8157 S:38 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,296.0,1.00%,F,T)
 100%

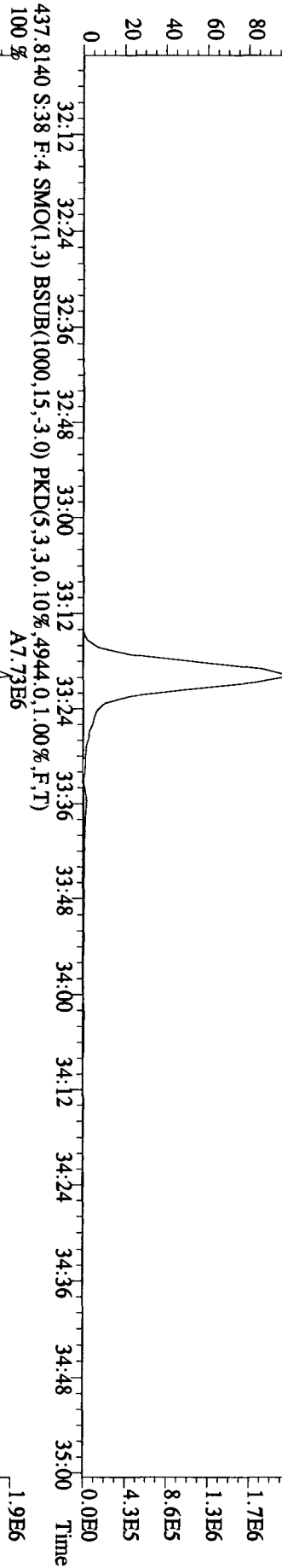


File: 02N010A1D5 #1-203 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text: L84Q7-1-AA :G0J260480-21 Exp: DIOXINRES
 407.7818 S:38 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1792.0,1.00%,F,T)
 100%

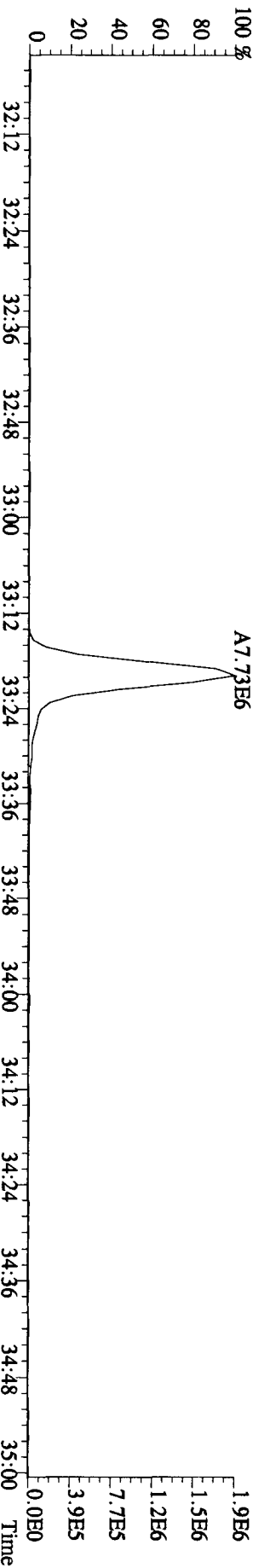




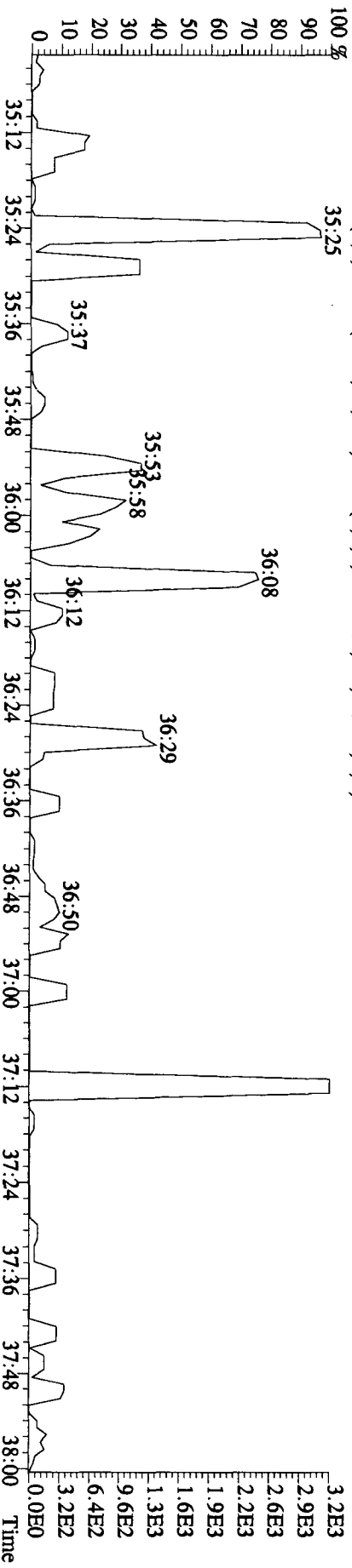
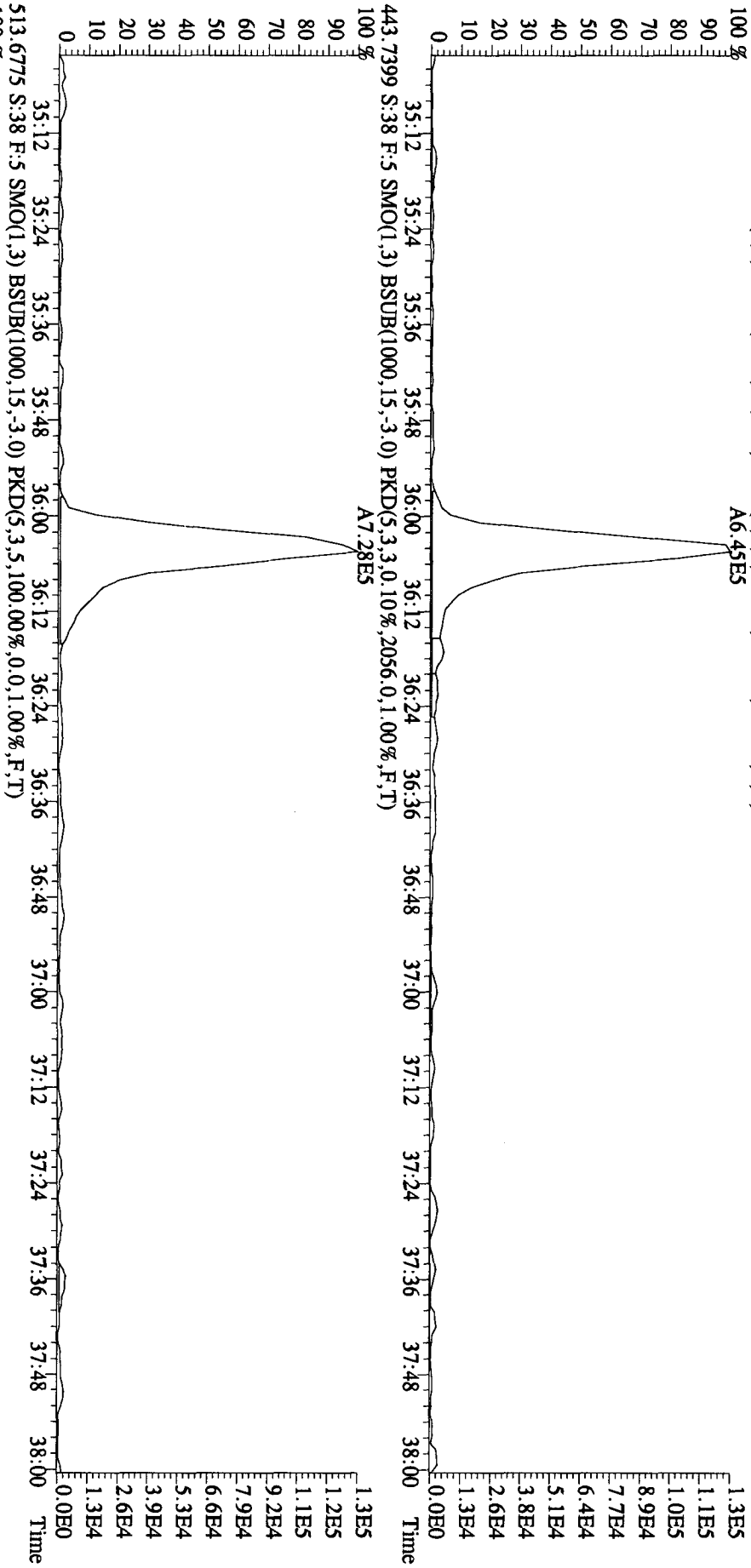
425.7737 S:38 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,624.0,1.00%,F,T)



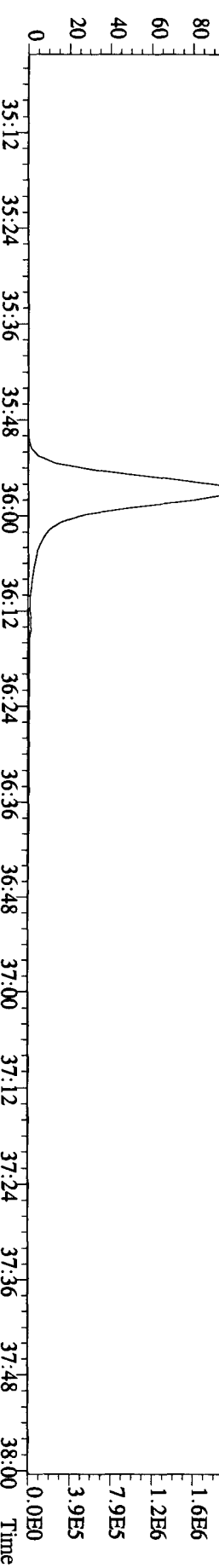
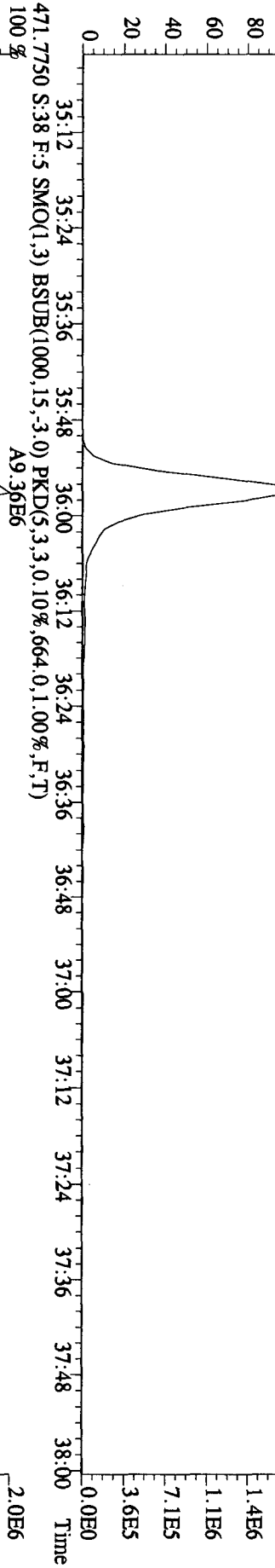
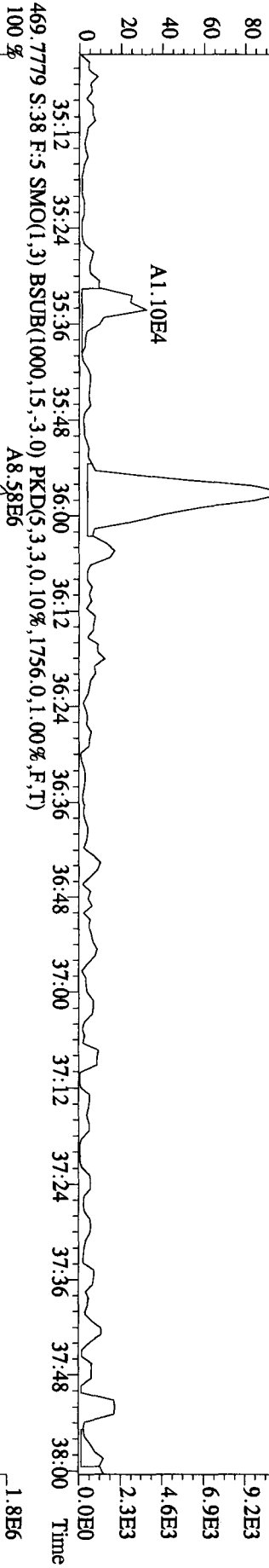
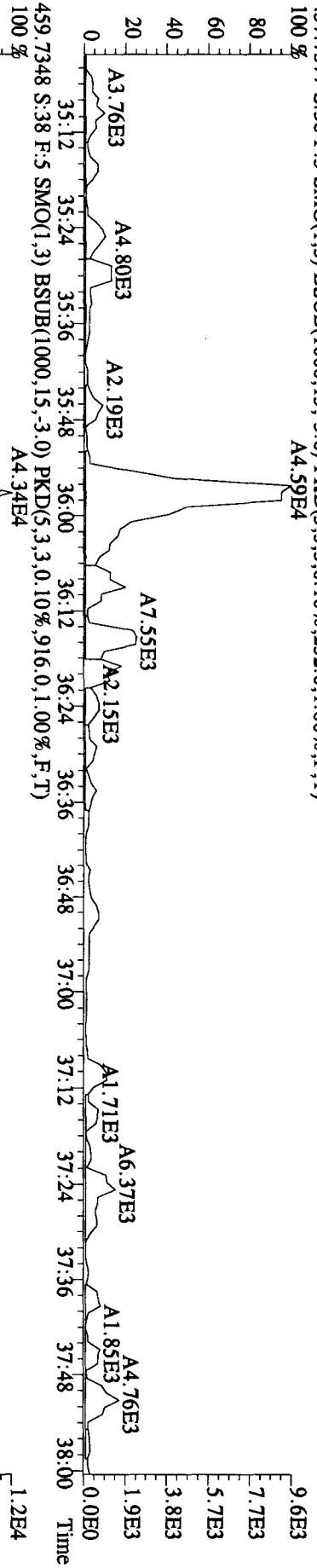
437.8140 S:38 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,494.0,1.00%,F,T)

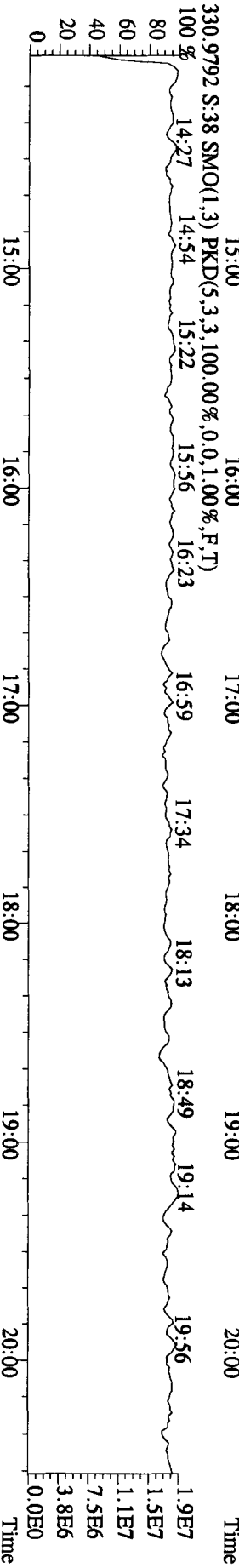
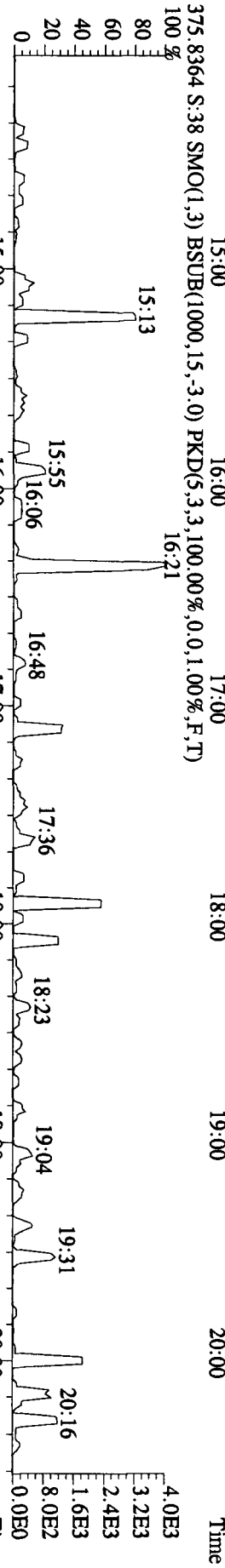
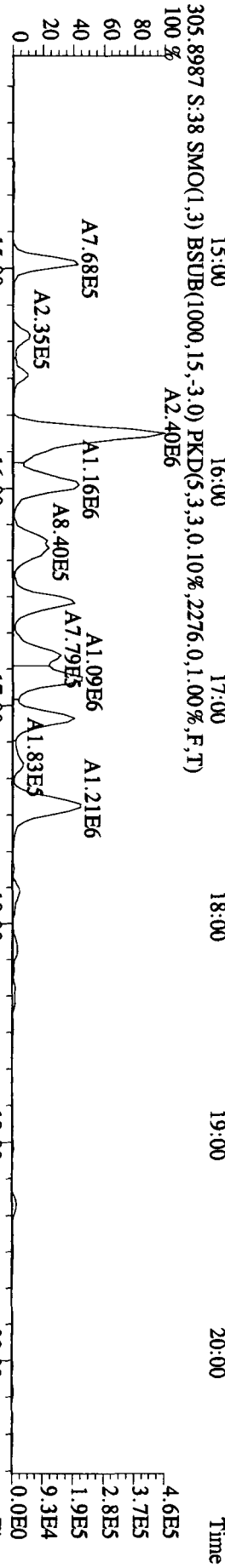
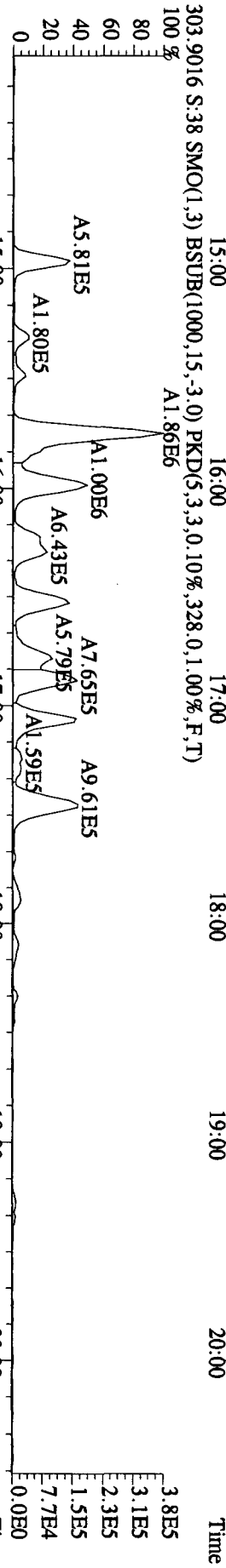
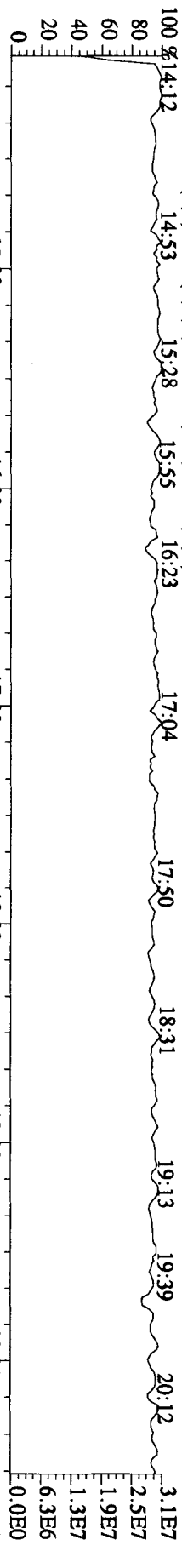


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text:L84Q7-1-AA :G0J260480-21 Exp:DIOXINRES
 441.7428 S:38 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,1288.0,1.00%,F,T)
 100% A6:45E5



File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text:L84Q7-1-AA :G01260480-21 Exp.:DIOXINRES
 457.7377 S:38 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,232.0,1.00%,F,T)
 100 %

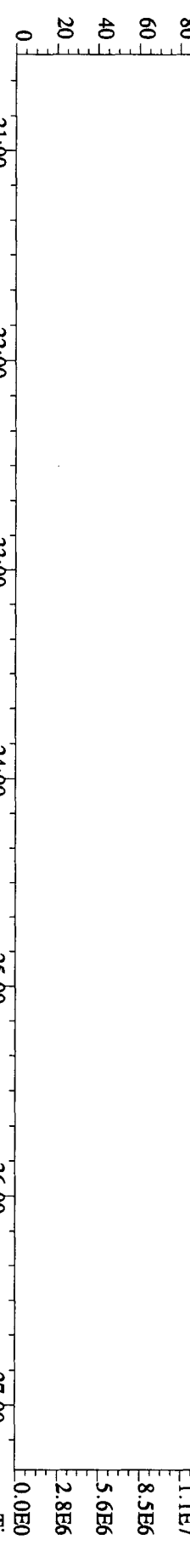




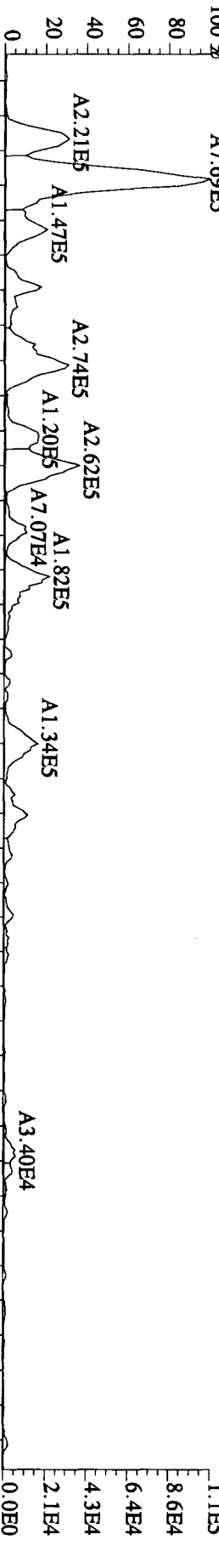
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text:L84Q7-1-AA :G01260480-21 Exp:DIOXINRES

342.9792 S:38 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

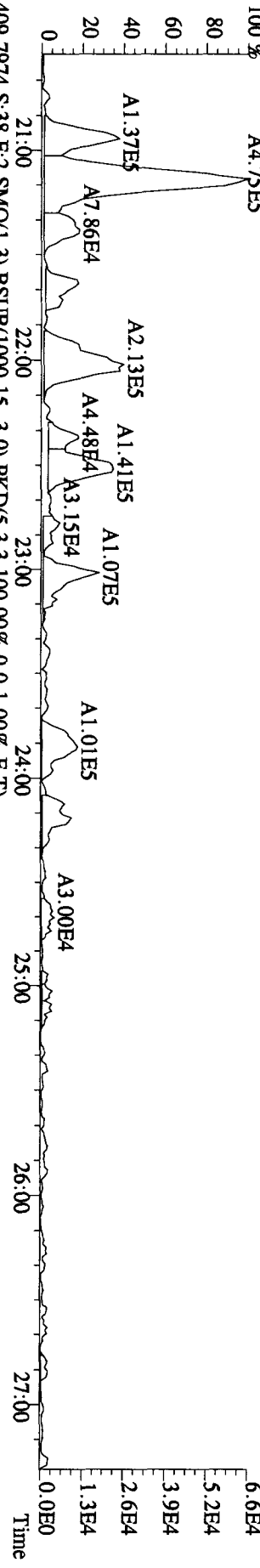
100 % 20:44 21:06 21:28 21:53 22:23 22:49 23:15 23:41 24:24 24:47 25:08 25:46 26:17 26:45 27:08



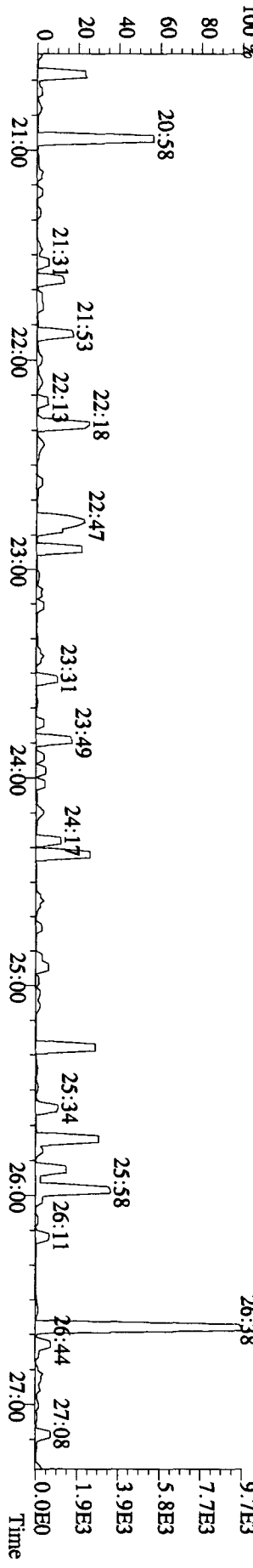
339.8597 S:38 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,888,0,1.00%,F,T)



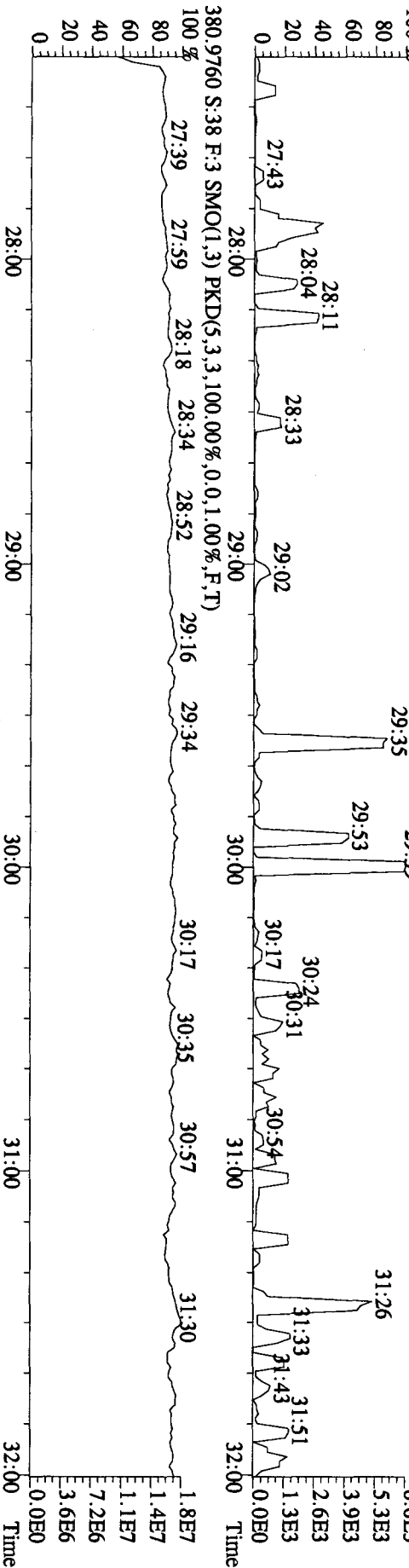
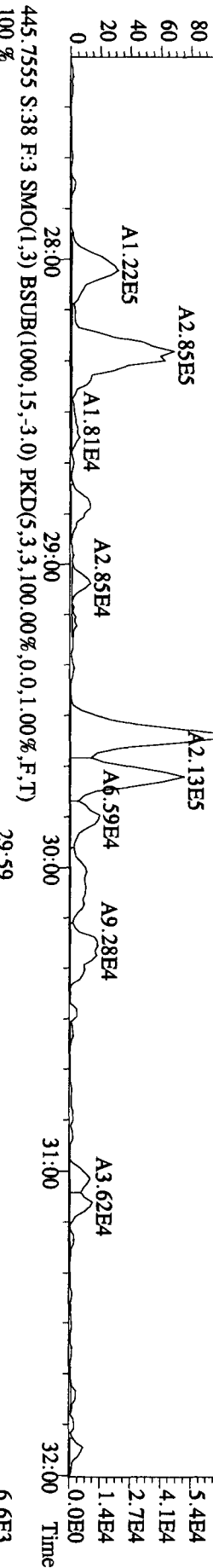
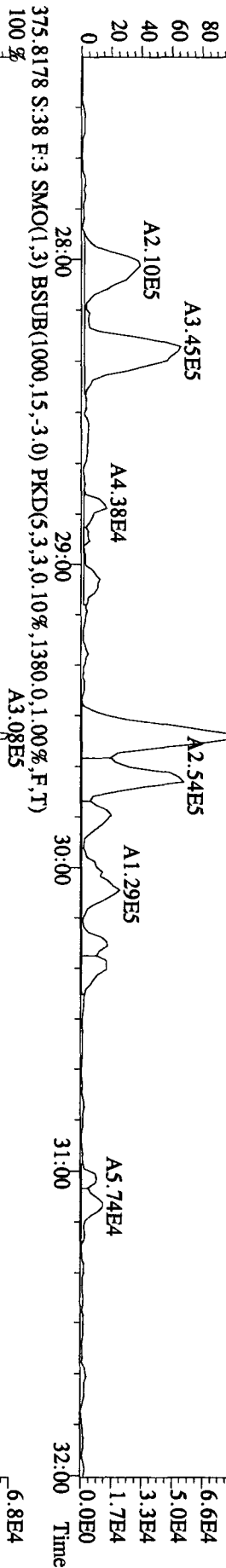
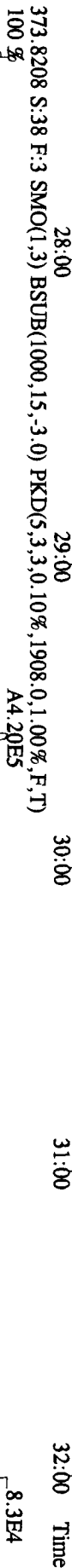
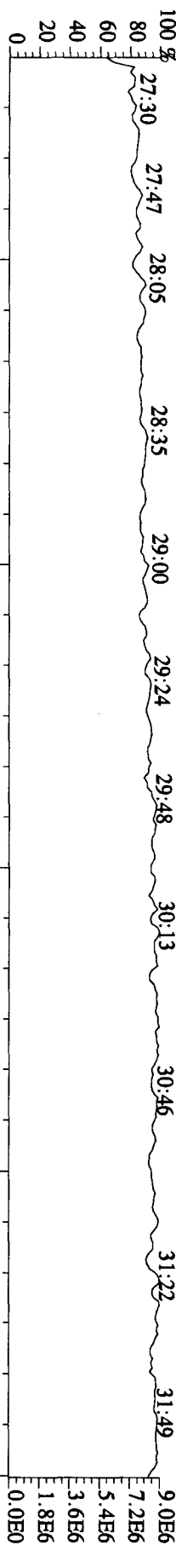
341.8567 S:38 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1924,0,1.00%,F,T)

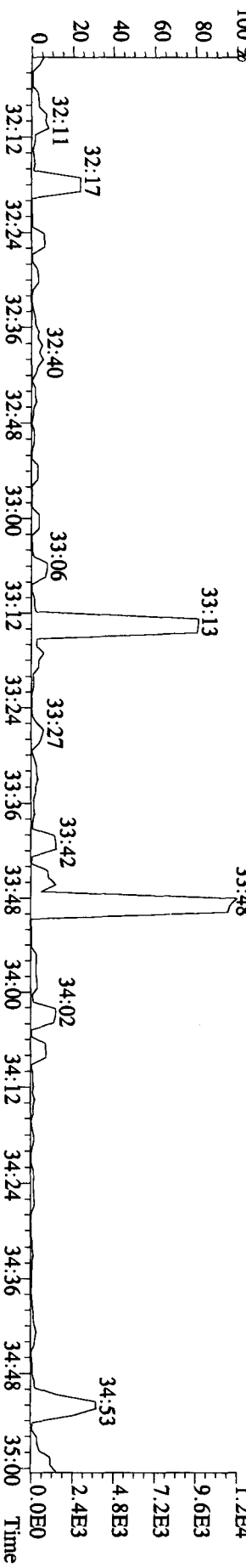
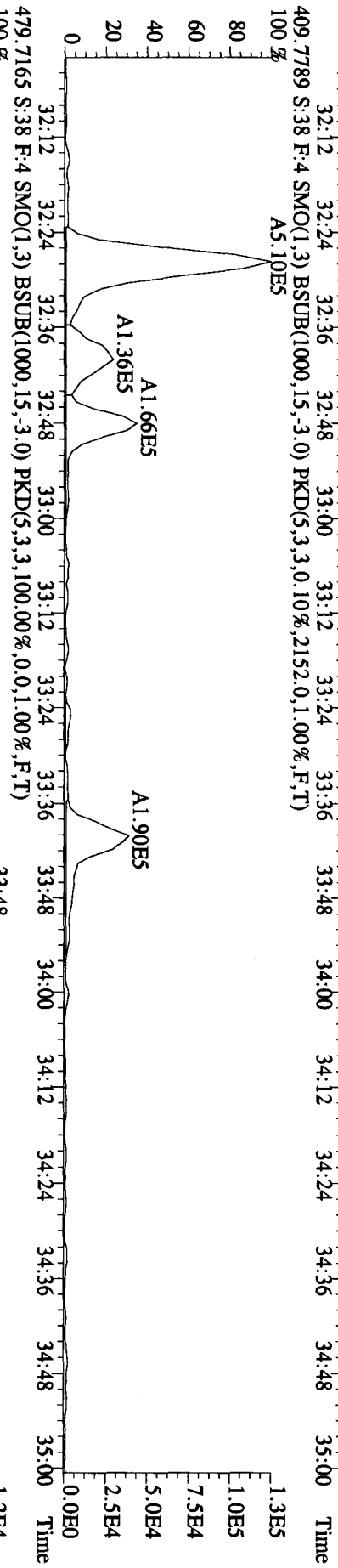
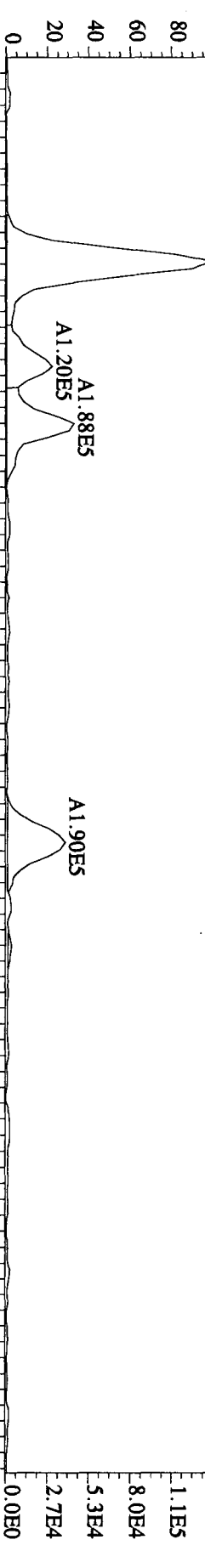
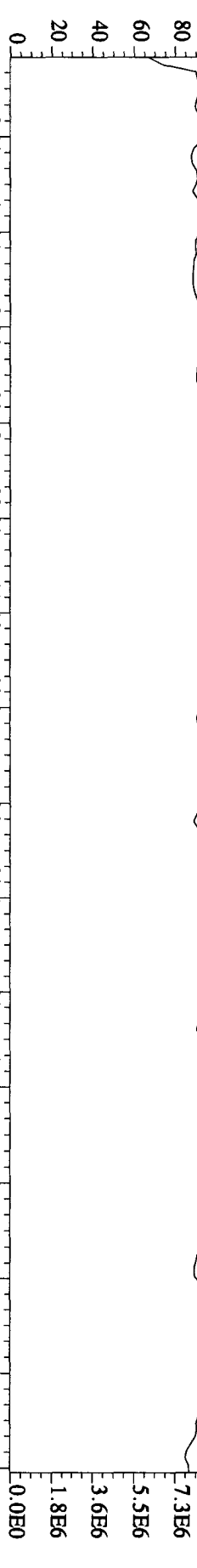


409.7974 S:38 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

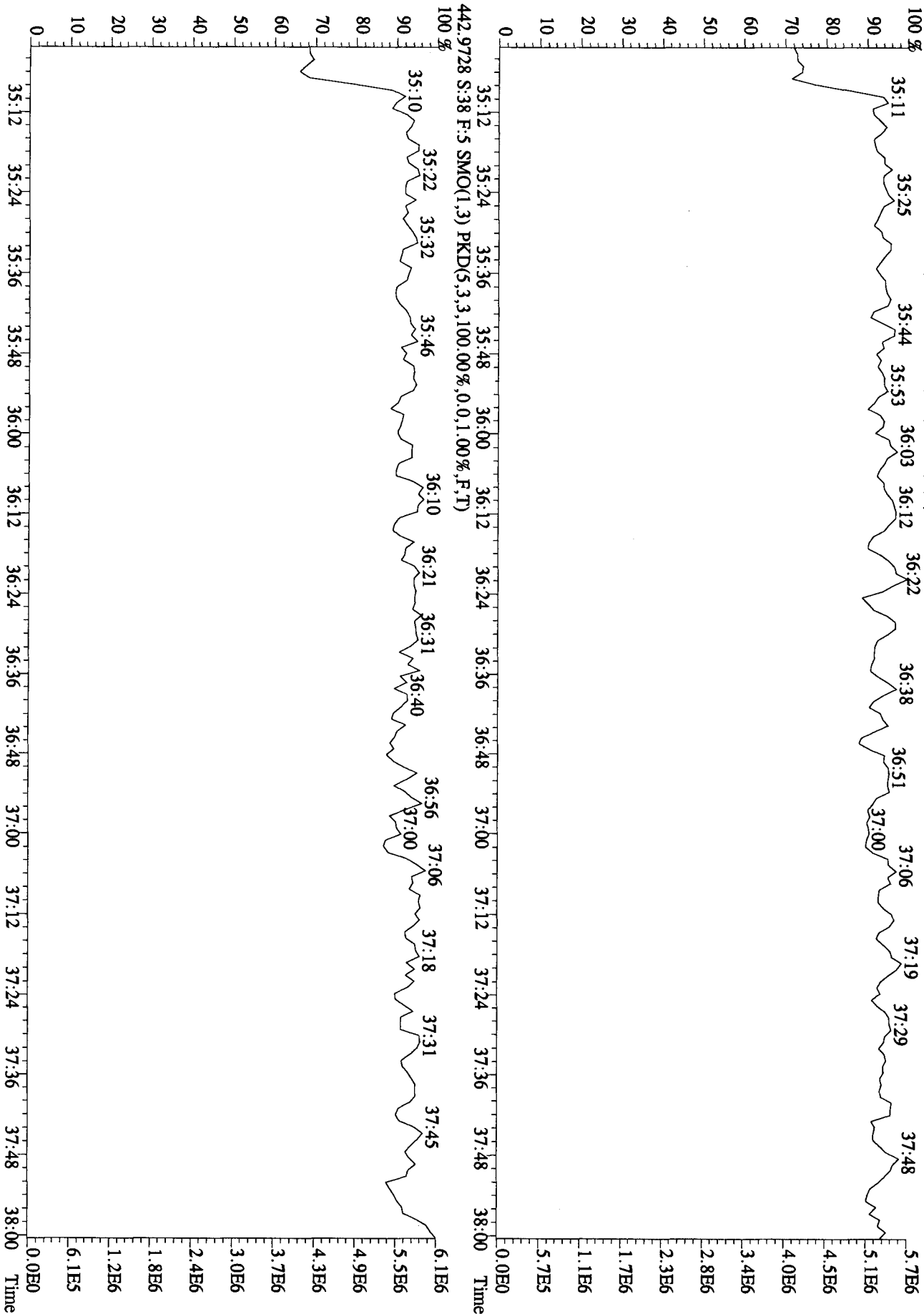


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text: L84Q7-1-AA :G0J260480-21 Exp: DIOXINRES
 392.9760 S:38 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 17:00:54 GC EI+ Voltage SIR 70SE
 Sample#38 Text: L84Q7-1-AA :G0J260480-21 Exp: DIOXINRES
 454.9728 S:38 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L84Q7-1-AA Sample text: L84Q7-1-AA :G0J260480-21
 Run #11 Filename: 04NO105D2 S: 30 I: 1 Results: 04NO105D2DB225AIR
 Acquired: 5-NOV-10 01:59:02 Processed: 5-NOV-10 08:39:54
 Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAM

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	183994400	0.75 y	15:20	-	198.13 3012.21	-	-	n
13C-2,3,7,8-TCDF	295116000	0.79 y	16:34	1.64 2.135	3921.38	9.08	98.0	n
2,3,7,8-TCDF	4863050	0.77 y	16:34	1.06	62.21,	2.62	-	n
13C-2,3,7,8-TCDD	148270200	0.76 y	15:03	0.96	3367.75	10.45	84.2	n
2,3,7,8-TCDD	152537	0.33 n	15:05	1.24	3.32	3.60	-	n
37C1-2,3,7,8-TCDD	85298000	1.00 y	15:04	1.54	1498.35	4.16	93.6	n

11/5/10
1.54

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11-8-10

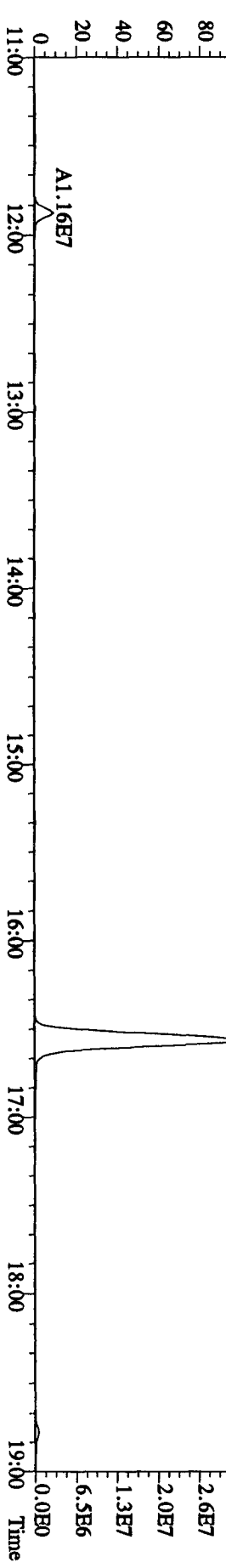
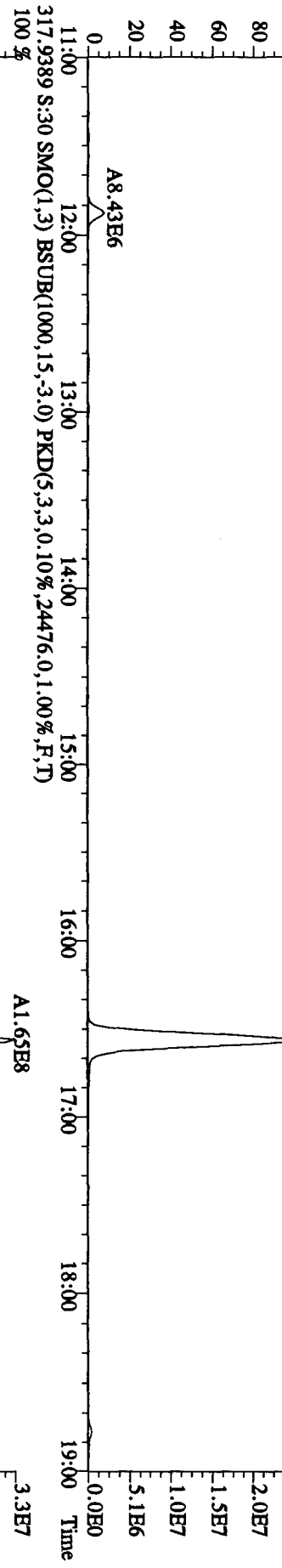
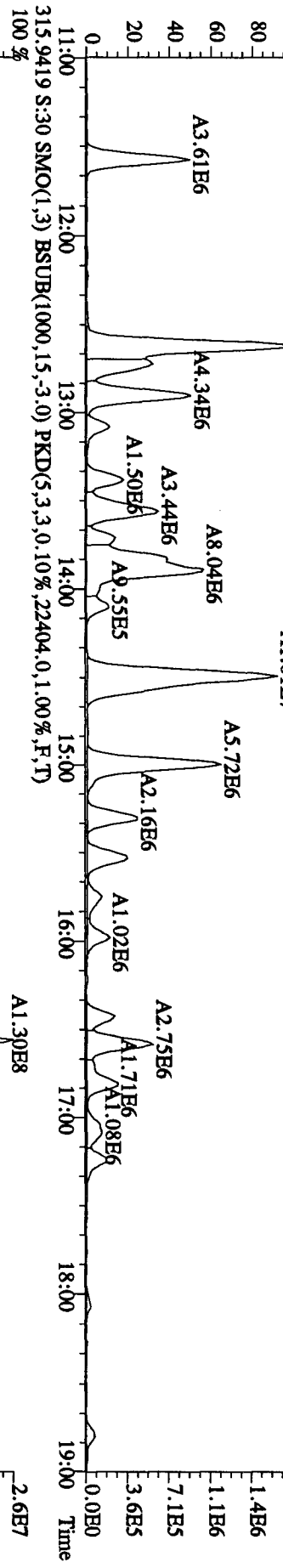
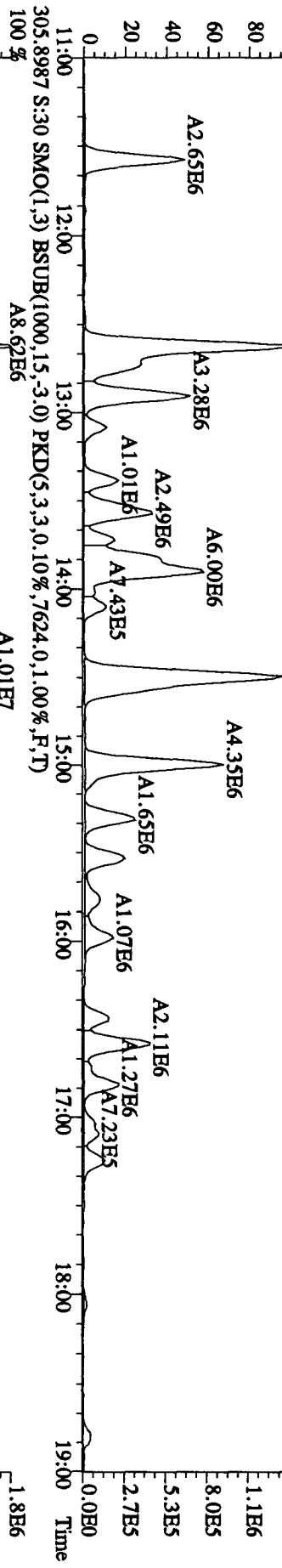
Run text: L84Q7-1-AA Sample text: L84Q7-1-AA :G0J260480-21
 Run #11 Filename: 04NO105D2 S: 30 I: 1 Results: 04NO105D2DB225AIR
 Acquired: 5-NOV-10 01:59:02 Processed: 5-NOV-10 08:39:54
 Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAM

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	183994400	0.75 y	15:20	-	198.13 3012.21	-	- 75.3	n
13C-2,3,7,8-TCDF	295116000	0.79 y	16:34	1.64 2.135	3921.38	9.08	98.0	n
2,3,7,8-TCDF	4863050	0.77 y	16:34	1.06	62.21,	2.62	-	n
13C-2,3,7,8-TCDD	148270200	0.76 y	15:03	0.96	3367.75	10.45	84.2	n
2,3,7,8-TCDD	152537	0.33 n	15:05	1.24	3.32	3.60	-	n
37Cl-2,3,7,8-TCDD	85298000	1.00 y	15:04	1.54	1498.35	4.16	93.6	n

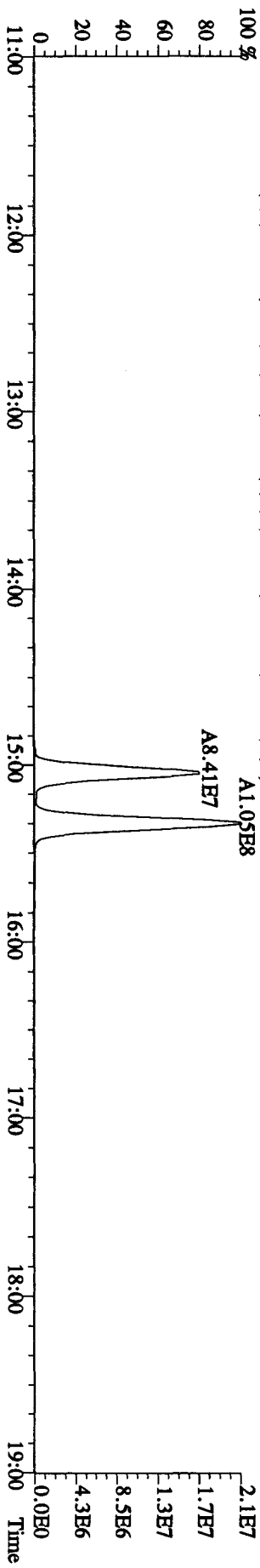
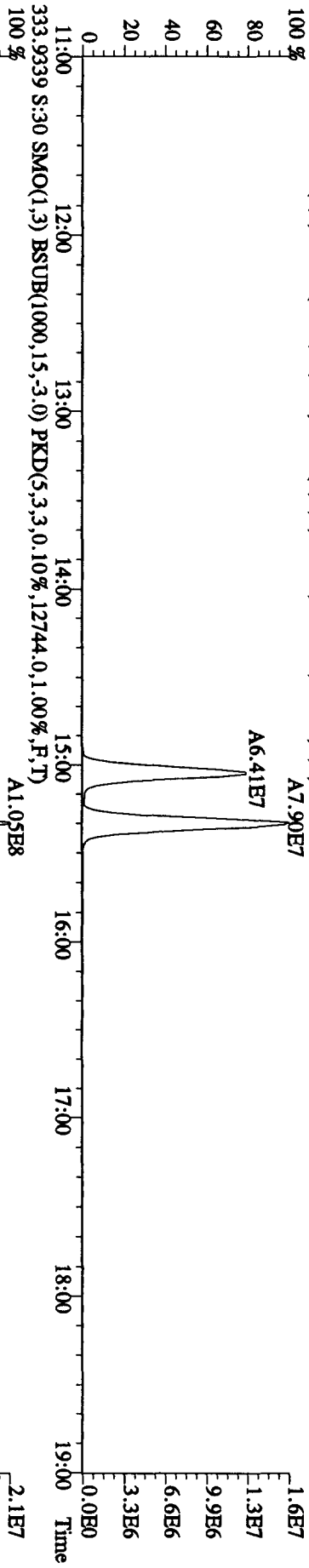
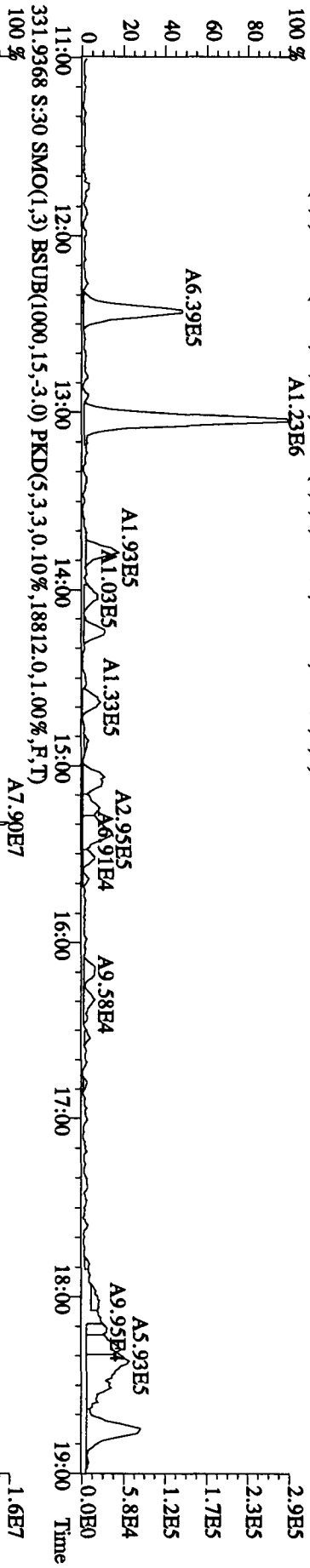
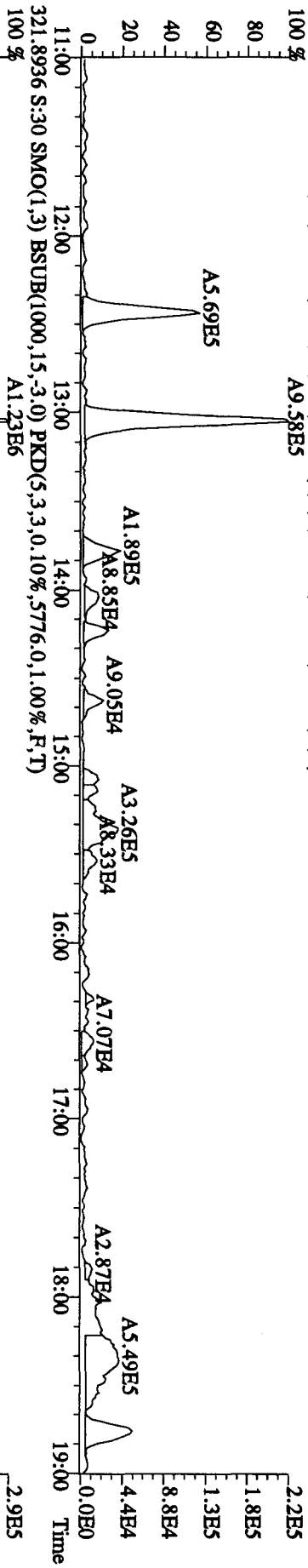
*11/5/10
1.54*

*OS
11-8-10*

File:04N0105D2 #1-1242 Acq: 5-NOV-2010 01:59:02 GC EI+ Voltage SIR 70SE
 Sample#30 Text:184Q7-1-AA :G0J260480-21 Exp:DB225RES
 303.9016 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5824.0,1.00%,F,T)
 100 % A8.14E6 A7.60E6



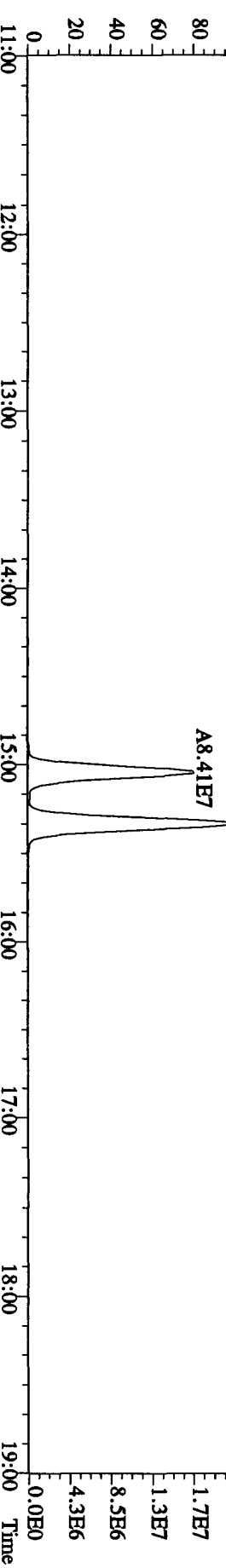
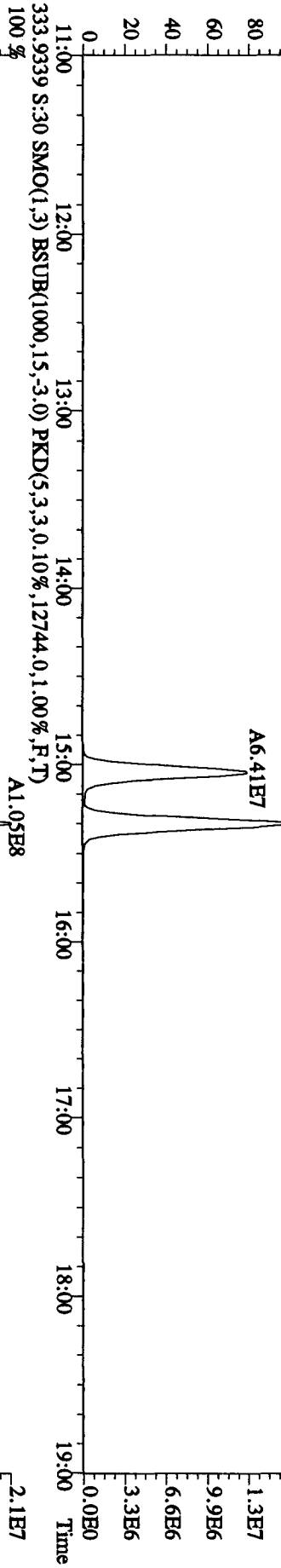
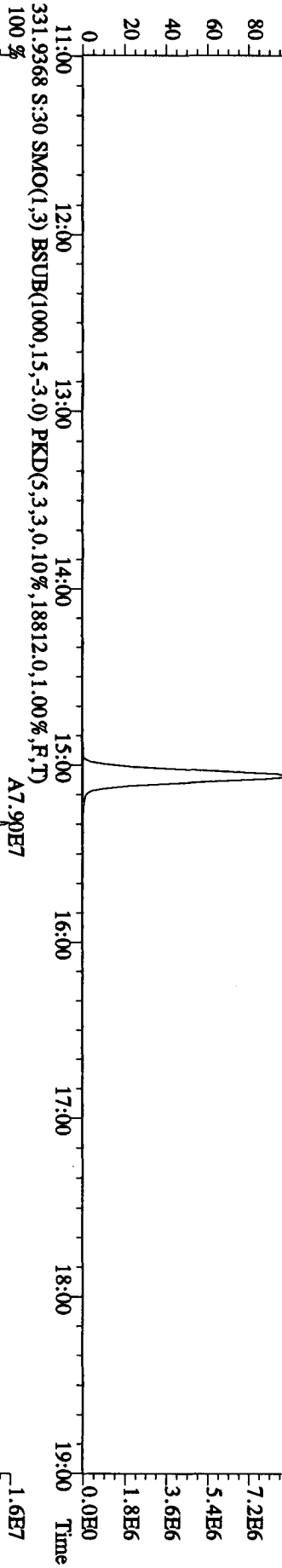
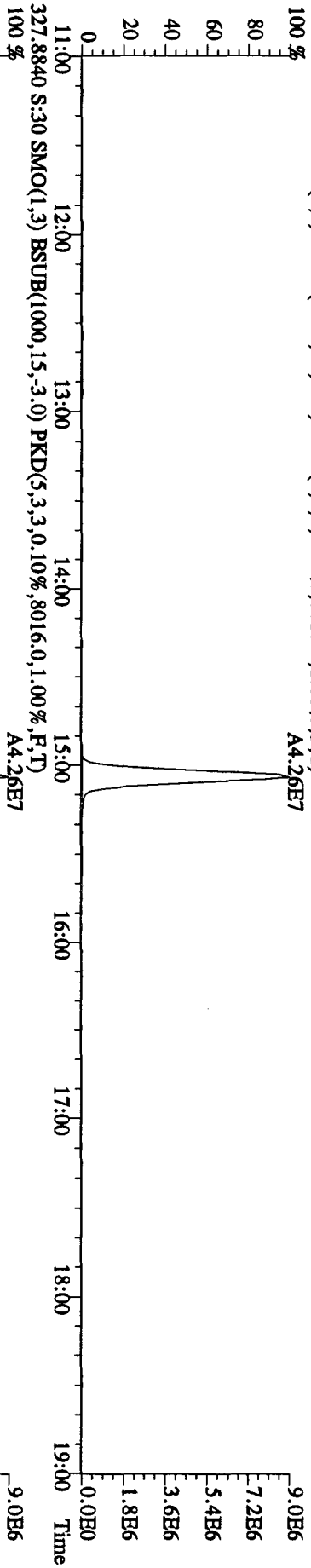
File:04NO105D2 #1-1242 Acq: 5-NOV-2010 01:59:02 GC EI+ Voltage SIR 70SE
 Sample#30 Text:184Q7-1-AA :G01260480-21 Exp:DB225RES
 319.8965 S:30 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5412.0,1.00%,F,T)
 100 % A9.58E5



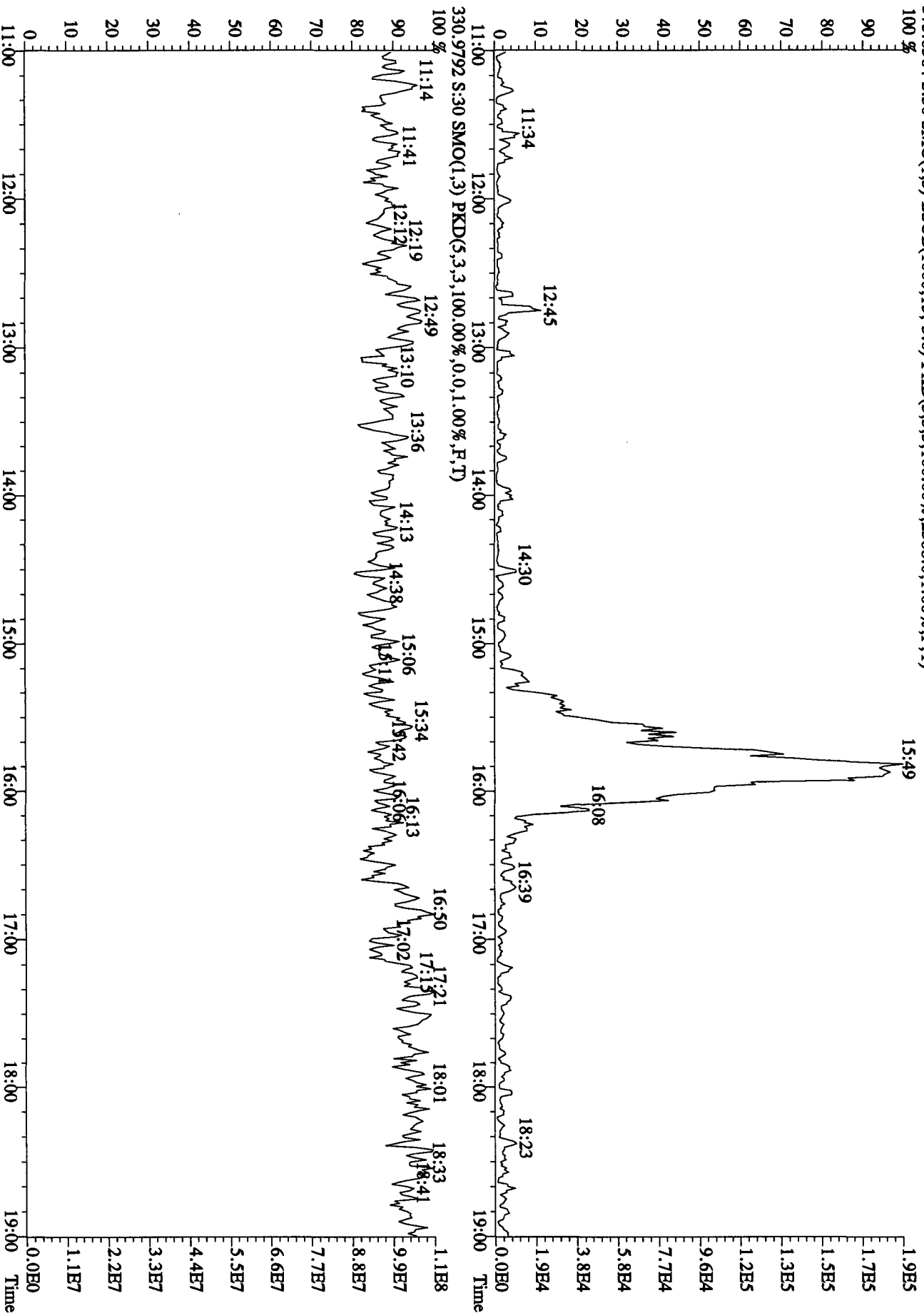
File:04NNO105D2 #1-1242 Acq: 5-NOV-2010 01:59:02 GC EI+ Voltage SIR 70SE

Sample#30 Text:L84Q7-1-AA :G0J260480-21 Exp:DB225RES

327.8840 S:30 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8016.0,1.00%,F,T) A4.26E7



File:04NO105D2 #1-1242 Acq: 5-NOV-2010 01:59:02 GC EI+ Voltage SIR 70SE
 Sample#30 Text:1.84Q7-1-AA :G01260480-21 Exp:DB225RBS
 375.8364 S:30 SMO(1.3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2388,0,1.00%,F,T)



Run text: L84RM-1-AA Sample text: L84RM-1-AA :G0J260480-24
 Run #17 Filename: 02NO10A1D5 S: 39 I: 1 Results: 02NO10A1D5TO9
 Acquired: 3-NOV-10 17:43:45 Processed: 3-NOV-10 19:38:18
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

OS
11-8-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	32098300	0.82 y	17:55	-	37.544	-	-	n
13C-2,3,7,8-TCDF	47537600	0.75 y	17:25	1.57	3762.468	0.347	94.1	n
2,3,7,8-TCDF	143565	0.97 n	17:26	0.88	13.767 J,Q	3.274	-	n
Total TCDF	643180	1.18 n	14:59	0.88	61.675 51.76 ✓	3.274	-	n
13C-2,3,7,8-TCDD	24933600	0.81 y	18:07	0.99	3140.706	3.055	78.5	n
2,3,7,8-TCDD	*	* n	NotFnd	0.94	-	1.227	-	n
Total TCDD	253418	4.11 n	14:33	0.94	43.243	1.227 4.62 ✓	-	n
37Cl-2,3,7,8-TCDD	13815100	1.00 y	18:09	1.18	1882.976	1.409	117.7	n
13C-1,2,3,7,8-PeCDF	29474400	1.73 y	22:27	1.15	3181.716	0.446	79.5	n
1,2,3,7,8-PeCDF	82985	1.90 n	22:29	1.03	10.942 J,Q	4.220	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.95	-	4.586	-	n
Total F2 PeCDF	461976	1.30 n	20:56	0.99	62.996 40.01 ✓	4.395	-	n
Total F1 PeCDF	155358	1.76 y	14:16	0.99	21.338	1.494	-	n
13C-1,2,3,7,8-PeCDD	14511910	1.70 y	24:30	0.67	2711.253	0.498	67.8	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.96	-	7.687	-	n
Total PeCDD	124787	3.87 n	21:22	0.96	35.792	7.687	-	n
13C-1,2,3,7,8,9-HxCDD	25160000	1.27 y	30:49	-	37.428	-	-	n
13C-1,2,3,4,7,8-HxCDF	27160940	0.52 y	29:32	1.15	3760.541	24.528	94.0	n
1,2,3,4,7,8-HxCDF	144608	1.69 n	29:34	1.22	17.470 J,Q	3.227	-	n
1,2,3,6,7,8-HxCDF	85932	0.74 n	29:40	1.41	8.994 J,Q	2.795	-	n
2,3,4,6,7,8-HxCDF	67069	1.35 y	30:17	1.23	8.017 OL	3.192	-	n
1,2,3,7,8,9-HxCDF	36476	2.04 n	31:05	1.08	52.5 4.957 OL	3.629	-	n
Total HxCDF	633271	0.92 n	28:00	1.24	75.099 52.7 ✓	3.184	-	n
13C-1,2,3,6,7,8-HxCDD	20325810	1.30 y	30:32	0.96	3370.128	1.711	84.3	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.89	-	5.847	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.05	-	4.946	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.00	-	5.163	-	n
Total HxCDD	24152	2.12 n	29:32	0.98	4.848	5.292 5.847 ✓	-	n
13C-1,2,3,4,6,7,8-HpCDF	20174140	0.44 y	32:26	0.98	3258.431	30.415	81.5	n
1,2,3,4,6,7,8-HpCDF	238489	0.99 y	32:27	1.33	35.515 J	6.328	-	n
1,2,3,4,7,8,9-HpCDF	85002	0.86 n	33:40	1.12	15.061 J,Q	7.529	-	n
Total HpCDF	499860	0.99 y	32:27	1.23	79.117 ,	6.877	-	n
13C-1,2,3,4,6,7,8-HpCDD	16087420	1.10 y	33:19	0.82	3102.366	10.341	77.6	n
1,2,3,4,6,7,8-HpCDD	38468	1.23 n	33:20	1.05	52.5 19.126 J,Q OL	2.691	-	n
Total HpCDD	135553	1.32 n	32:14	1.05	22.157	2.691 9.126 ✓	-	n
13C-OCDD	17607360	0.92 y	35:56	0.54	5166.501	4.185	64.6	n

OCDF	405190	1.03	n	36:04	1.58	116.527	J, Q	10.736	-	n
OCDD	56159	1.08	n	35:58	1.13	22.519	Σ 2.2 2	6.555	-	n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:12
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 30.84 of which 6.88 named and 23.95 unnamed
 Conc: 61.68 of which 13.77 named and 47.91 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:59	1.18 n	3.90	27192 22998	17.5 2.9	y n	n n
	2	15:22	0.29 n	0.90	4072 13898	4.2 1.5	y n	n n
	3	15:30	0.50 n	1.74	7881 15885	6.2 1.1	y n	n n
	4	15:45	0.44 n	11.83	53668 120715	44.6 10.4	y y	n n
	5	15:59	3.57 n	2.21	46399 13011	22.9 1.8	y n	n n
	6	16:19	1.01 n	5.37	32047 31629	23.7 3.4	y y	n n
	7	16:33	1.29 n	5.51	41961 32470	22.2 2.7	y n	n n
	8	17:03	0.74 y	11.38	50486 68225	32.5 6.7	y y	n n
2,3,7,8-TCDF	9	17:26	0.97 n	13.77	78447 81110	38.5 6.5	y y	n n
	10	18:08	2.59 n	0.79	12101 4673	7.8 0.6	y n	n n
	11	19:54	0.64 n	1.63	7375 11583	5.6 1.4	y n	n n
	12	20:04	1.28 n	2.65	19943 15621	19.9 2.3	y n	n n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:25
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1η

Amount: 21.62 of which * named and 21.62 unnamed
 Conc: 43.24 of which * named and 43.24 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:33	4.11	n	1.42	19306	11.3	y n
						4702	5.7	y n
	2	14:43	4.26	n	0.62	8773	10.7	y n
						2060	2.4	n n
	3	14:50	3.00	n	0.66	6533	7.3	y n
						2179	1.6	n n
	4	15:31	0.65	n	2.75	7001	6.9	y n
						10745	8.3	y n
	5	15:42	0.19	n	0.85	2165	2.6	n n
						11144	10.5	y n
	6	15:48	0.81	y	3.43	8975	7.5	y n
						11144	10.5	y n
	7	16:13	1.16	n	4.62	17831	21.3	y n
						15309	12.1	y n
	8	16:27	0.94	n	2.84	8891	8.2	y n
						9415	8.3	y n
	9	16:45	2.99	n	1.83	18188	19.0	y n
						6074	5.0	y n
	10	16:52	0.64	n	1.52	3868	5.0	y n
						6074	5.0	y n
	11	17:01	0.67	y	3.16	7435	7.6	y n
						11071	7.5	y n
	12	17:14	2.27	n	1.78	13355	15.7	y n
						5892	7.0	y n
	13	17:23	1.00	n	2.81	9330	9.0	y n
						9292	6.0	y n
	14	17:43	0.23	n	0.39	982	1.2	n n
						4218	3.7	y n
	15	17:49	1.92	n	1.37	8738	6.8	y n
						4552	3.6	y n

16	18:00	4.33	n	0.85	12224	8.9	y	n
					2824	3.1	y	n
17	18:21	1.93	n	1.44	9192	4.6	y	n
					4757	3.8	y	n
18	18:30	1.41	n	1.49	6933	7.9	y	n
					4934	3.3	y	n
19	18:51	0.11	n	0.66	1686	1.6	n	n
					15112	15.4	y	n
20	19:04	3.40	n	1.64	18488	15.8	y	n
					5442	6.2	y	n
21	19:17	0.41	n	2.19	5590	5.3	y	n
					13474	13.7	y	n
22	19:23	0.10	n	0.51	1292	1.4	n	n
					13474	13.7	y	n
23	19:41	0.46	n	1.38	3525	5.2	y	n
					7694	7.2	y	n
24	20:04	0.30	n	1.63	4160	3.0	n	n
					13839	15.8	y	n
25	20:17	5.59	n	1.39	25763	25.1	y	n
					4610	4.4	y	n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:15
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1q

Amount: 31.50 of which 5.47 named and 26.03 unnamed
 Conc: 63.00 of which 10.94 named and 52.05 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:56	1.30	3.04	13461 10324	5.6 1.9	y n	n n
	2	21:04	0.99	10.99	48655 49111	27.4 6.3	y y	n n
	3	21:08	1.19	13.25	58626 49111	24.5 6.3	y y	n n
	4	21:54	1.00	3.68	16279 16345	7.7 3.1	y y	n n
	5	21:59	2.44	4.83	33561 13783	12.4 2.8	y n	n n
	6	22:21	2.05	3.44	20130 9829	9.0 1.6	y n	n n
1,2,3,7,8-PeCDF	7	22:29	1.90	10.94	61727 32543	21.5 5.8	y y	n n
	8	23:00	2.65	2.96	22415 8456	7.7 1.5	y n	n n
	9	23:10	0.71	1.04	4624 6550	3.0 1.9	n n	n n
	10	23:16	0.14	0.49	2184 15752	1.3 3.9	n y	n n
	11	24:04	0.71	3.51	15525 21900	8.0 2.7	y n	n n
	12	24:09	0.57	2.82	12465 21900	7.5 2.7	y n	n n
	13	24:31	0.29	0.39	1708 5911	1.1 0.9	n n	n n
	14	24:54	0.23	0.47	2078 9169	1.5 1.9	n n	n n
	15	26:07	0.50	1.14	5058 10046	2.9 2.6	n n	n n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:19
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1

Amount: 10.67 of which * named and 10.67 unnamed
 Conc: 21.34 of which * named and 21.34 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:16	1.76	y 1.36	6297 3587	3.1 4.4	y	n
	2	14:28	2.17	n 1.14	7042 3247	3.8 3.7	y	n
	3	15:02	0.42	n 0.27	1185 2843	0.8 2.9	n	n
	4	15:16	1.24	n 0.46	2052 1654	2.0 2.1	n	n
	5	15:28	1.28	n 5.52	24439 19097	13.6 24.5	y	n
	6	15:37	0.39	n 0.59	2591 6597	1.9 5.6	n	n
	7	15:57	0.24	n 0.23	1029 4358	1.1 4.1	n	n
	8	16:04	0.73	n 0.71	3164 4358	2.3 4.1	n	n
	9	16:31	0.27	n 0.25	1086 4000	0.7 3.6	n	n
	10	17:15	0.40	n 0.84	3709 9292	3.2 10.9	y	n
	11	17:25	0.42	n 0.34	1493 3569	1.2 4.3	n	n
	12	17:33	1.14	n 1.52	6714 5892	5.0 6.4	y	n
	13	18:54	0.46	n 0.60	2666 5821	2.4 7.3	n	n
	14	19:26	1.13	n 0.94	4155 3674	4.0 4.0	y	n
	15	19:31	1.68	y 1.63	7450 4444	6.0 5.6	y	n

16	19:38	1.58	y	1.49	6666	5.8	y	n
					4217	4.6	y	n
17	19:46	3.26	n	0.31	2925	1.3	n	n
					898	1.2	n	n
18	20:05	1.10	n	1.29	5691	4.1	y	n
					5164	3.4	y	n
19	20:16	2.47	n	1.85	13028	10.6	y	n
					5279	5.8	y	n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:12

Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45

Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a1

Amount: 17.90 of which * named and 17.90 unnamed
 Conc: 35.79 of which * named and 35.79 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:22	3.87	n	1.97	10387	2.4	n n
						2687	4.6	y n
	2	21:54	1.82	n	3.41	8467	2.3	n n
						4662	5.1	y n
	3	22:27	1.29	n	2.32	4916	1.3	n n
						3803	3.5	y n
	4	22:33	1.22	n	4.24	8982	1.4	n n
						7384	10.7	y n
	5	23:05	3.26	n	2.86	12747	2.2	n n
						3906	4.1	y n
	6	23:20	2.20	n	1.82	5462	1.2	n n
						2485	2.4	n n
	7	23:27	1.55	y	1.82	3859	1.0	n n
						2485	2.4	n n
	8	23:46	3.21	n	2.01	8823	1.9	n n
						2747	2.9	n n
	9	24:06	1.52	y	6.74	14155	3.7	y n
						9333	7.7	y n
	10	25:45	1.84	n	3.10	7827	1.9	n n
						4244	6.0	y n
	11	26:38	1.06	n	3.03	6423	2.0	n n
						6088	8.9	y n
	12	27:05	1.81	n	2.48	6147	1.8	n n
						3397	4.1	y n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:11
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 37.55 of which 19.72 named and 17.83 unnamed
 Conc: 75.10 of which 39.44 named and 35.66 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:00	0.92	n 6.71	31145 34032	4.5 4.8	y	n
	2	28:18	1.14	y 19.53	87427 76389	11.9 15.5	y	n
	3	28:34	1.63	n 1.09	6659 4096	2.0 1.4	n	n
	4	28:45	2.99	n 1.27	14150 4739	3.9 1.5	y	n
	5	28:51	0.40	n 1.10	5097 12763	1.5 2.2	n	n
	6	29:01	1.40	y 3.38	16549 11797	5.3 <u>2.3</u>	y	n
1,2,3,4,7,8-HxCDF	7	29:34	1.69	n 17.47	109250 64557	17.0 11.0	y	n
1,2,3,6,7,8-HxCDF	8	29:40	0.74	n 8.99	47570 64023	12.0 14.8	y	n
	9	30:05	2.30	n 2.59	22320 9716	4.5 2.9	y	n
2,3,4,6,7,8-HxCDF	10	30:17	1.35	y 8.02	38567 28502	5.6 3.5	y	n
1,2,3,7,8,9-HxCDF	11	31:05	2.04	n 4.96	33196 16284	3.7 5.3	y	n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:2
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 2.42 of which * named and 2.42 unnamed
 Conc: 4.85 of which * named and 4.85 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:32	2.12	n 3.91	18457	3.3	y	n
					8698	1.5	n	n
	2	31:01	0.14	n 0.94	2584	1.3	n	n
					18568	4.3	y	n

Run Text: L84RM-1-AA

Sample text: L84RM-1-AA :G0J260480-24

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

Amount: 39.56 of which 25.29 named and 14.27 unnamed
 Conc: 79.12 of which 50.58 named and 28.54 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:27	0.99	y	35.52	118687	13.0	y n
						119802	27.5	y n
	2	32:38	0.89	y	10.46	30398	3.0	y n
						34229	7.2	y n
	3	32:46	1.03	y	18.08	56732	4.5	y n
						55010	11.1	y n
1,2,3,4,7,8,9-HpCDF	4	33:40	0.86	n	15.06	43335	3.1	y n
						50206	9.9	y n

Run Text: L84RM-1-AA

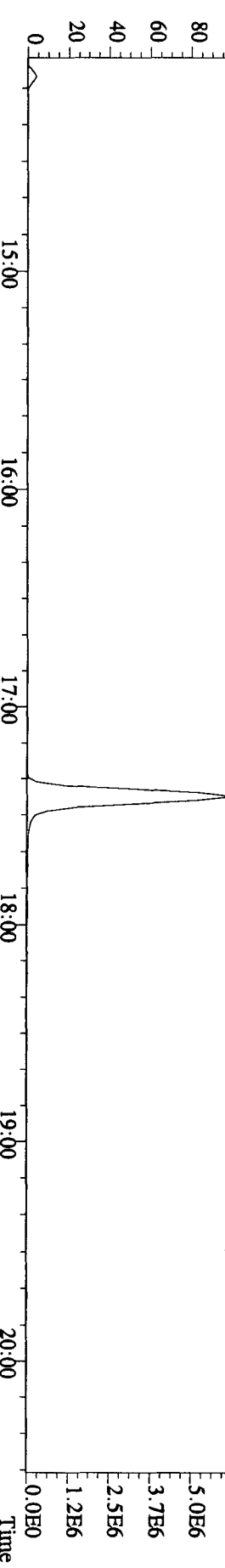
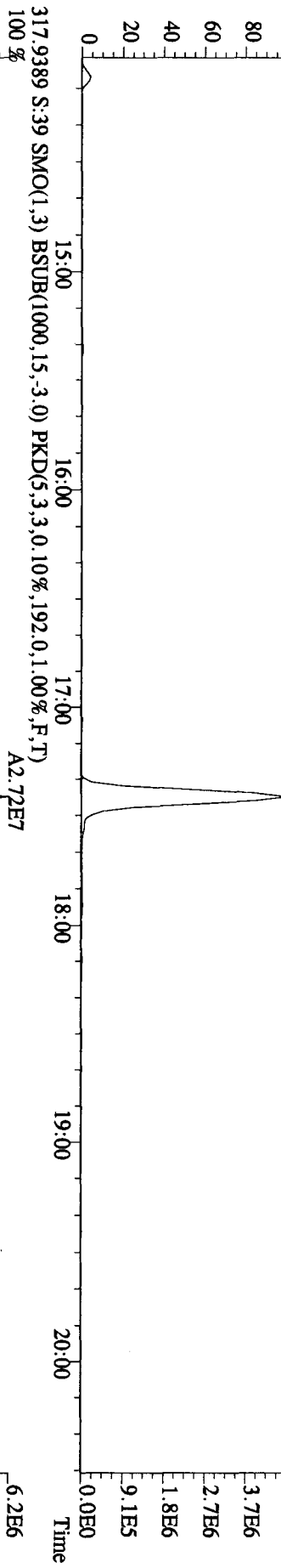
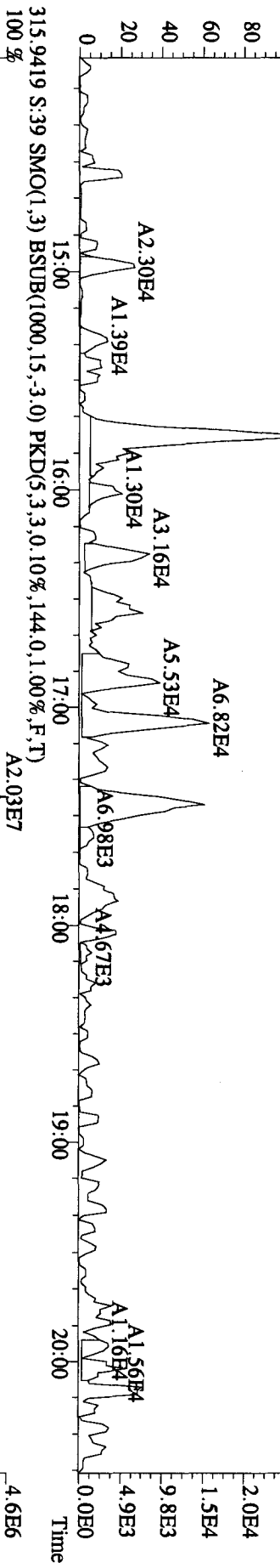
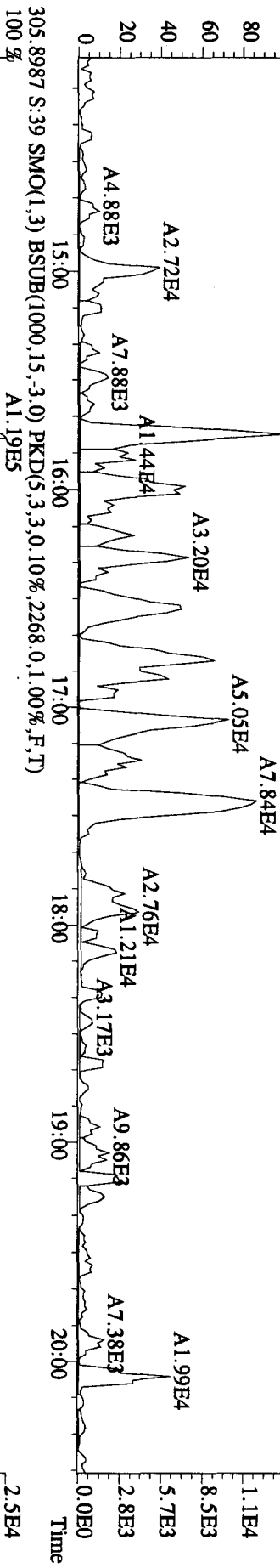
Sample text: L84RM-1-AA :G0J260480-24

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:14
 Run: 17 File: 02NO10A1D5 S:39 Acq:3-NOV-10 17:43:45
 Tables: Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02no10a17

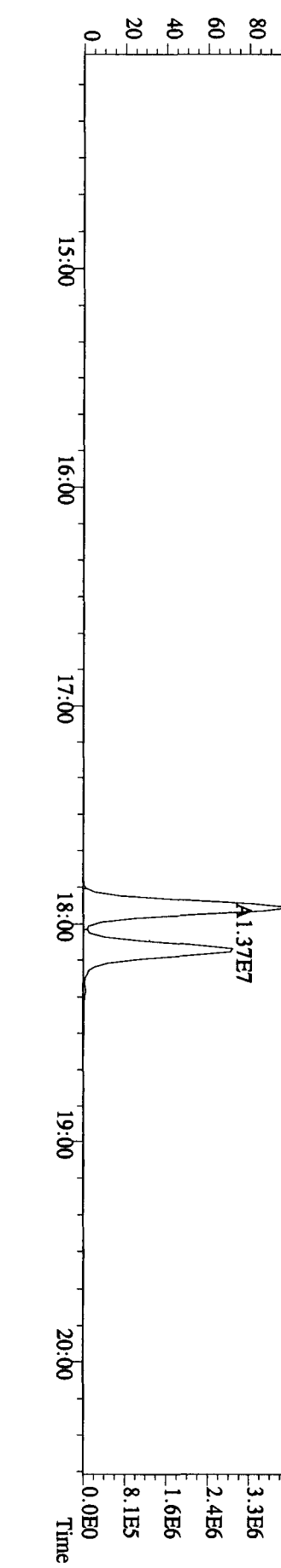
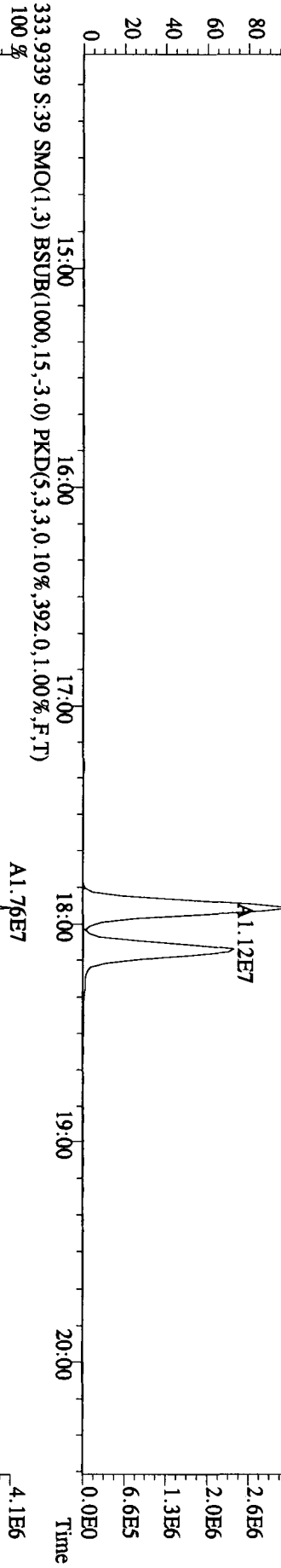
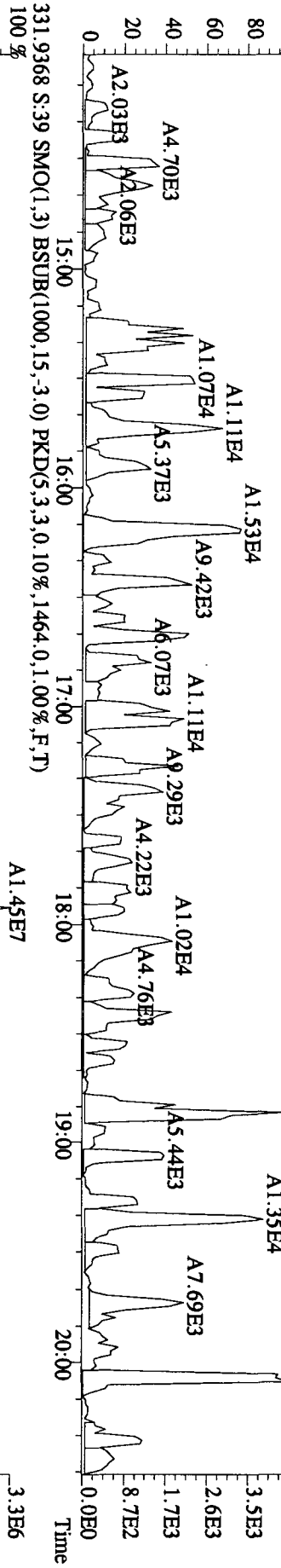
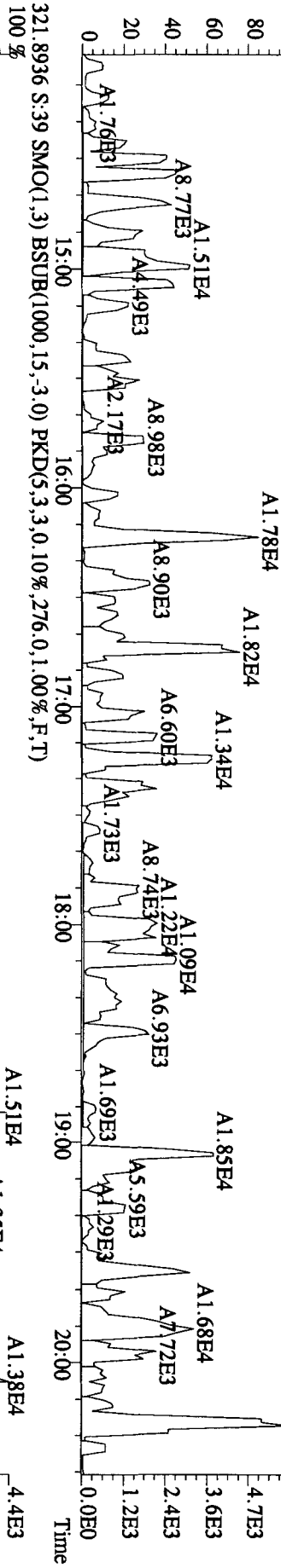
Amount: 16.08 of which 4.56 named and 11.52 unnamed
 Conc: 32.16 of which 9.13 named and 23.03 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:14	1.32 n	0.98	2691 2035	2.3 1.8	n n	n n
	2	32:26	3.73 n	2.58	19929 5338	7.4 3.8	y y	n n
	3	32:42	1.75 n	6.49	23519 13413	12.9 11.2	y y	n n
	4	33:13	0.58 n	1.47	3153 5456	2.7 5.5	n y	n n
1,2,3,4,6,7,8-HpCDD	5	33:20	1.23 n	9.13	23254 18857	13.9 15.6	y y	n n
	6	33:30	0.51 n	1.54	3314 6438	2.2 6.1	n y	n n
	7	33:36	2.76 n	1.44	8202 2971	3.4 2.7	y n	n n
	8	33:57	0.54 n	1.76	3779 7058	1.8 4.5	n y	n n
	9	34:04	0.98 y	0.89	1854 1899	1.4 1.2	n n	n n
	10	34:08	1.63 n	0.92	3100 1899	2.2 1.2	n n	n n
	11	34:14	0.64 n	1.88	4043 6323	2.8 6.7	n y	n n
	12	34:18	0.21 n	0.62	1335 6323	1.0 6.7	n y	n n
	13	34:43	2.52 n	0.60	3108 1232	2.4 0.9	n n	n n
	14	34:51	0.36 n	1.86	3995 11015	2.1 11.3	n y	n n

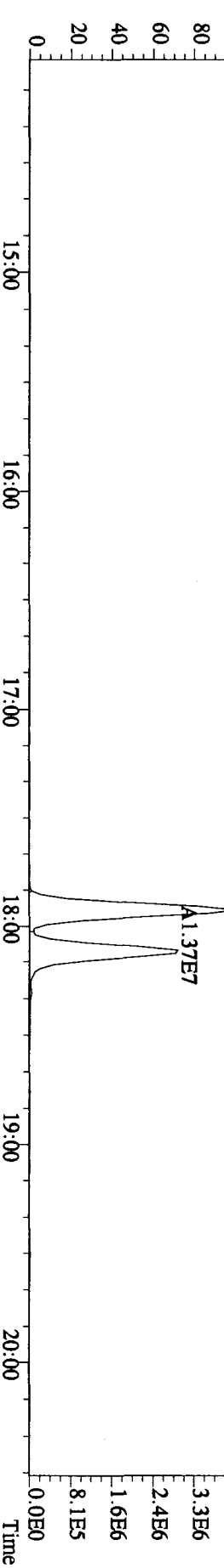
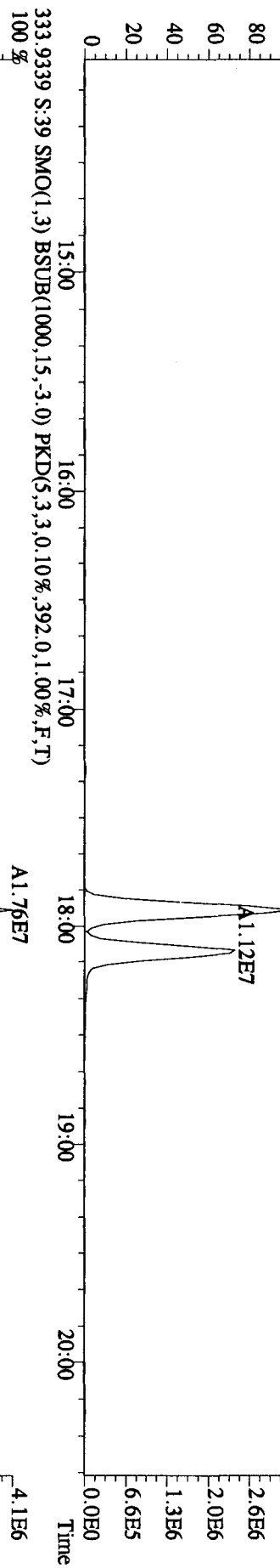
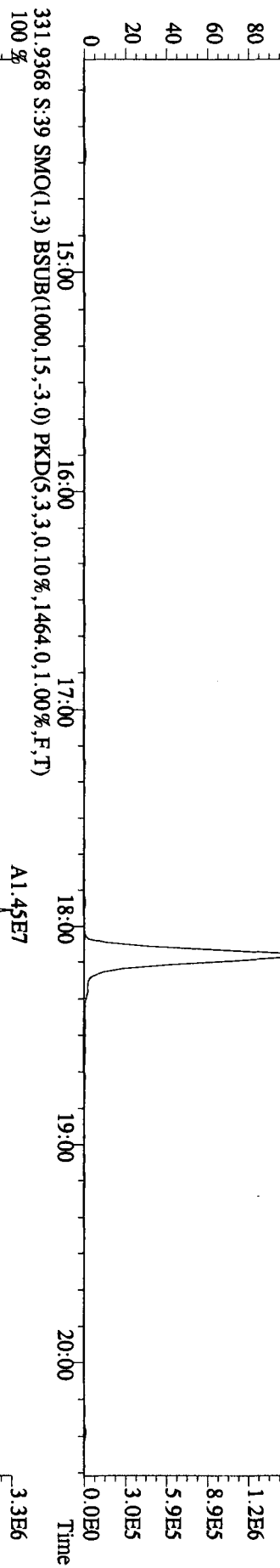
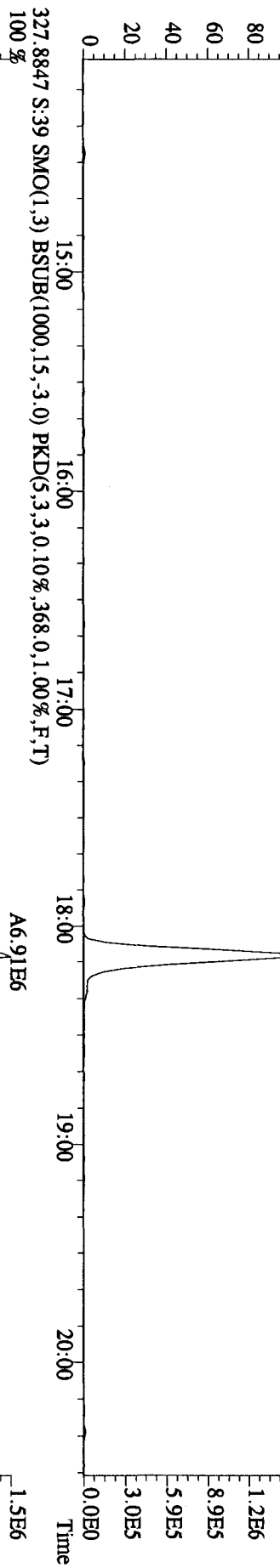
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text:L84RM-1-AA :G0J260480-24 Exp.:DIOXINRES
 305.8987 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,316,0,1,00%,F,T)



File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 17:43:45 GC: EI+ Voltage SIR 70SE
 Sample#39 Text: L84RM-1-AA : G0J260480-24 Exp: DIOXINRES
 319.8965 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,236,0,1,100%,F,T)



File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text:L84RM-1-AA :G01260480-24 Exp:DIOXINES
 327.8847 S:39 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,368,0.1,0.00%,F,T)
 100 %



File: 02NO10A1.DS #1-422 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE

Sample#39 Text: L84RM-1-AA :G01260480-24

Exp: DIOXINES

339.8597 S:39 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,476,0.1,0.00%,F,T)

100%

A4.87E4

A5186E4

A1.35E4

A1.25E4

A3.36E4

A2.01E4

A6.17E4

A2.24E4

A1.08E4

A2.18E3

A3.25E4

A1.55E4

A1.58E4

A6.55E3

A2.70E3

A1.87E7

A1.63E4

A1.23E4

A1.58E4

A2.19E4

A5.91E3

A9.17E3

A9.58E3

A5.60E3

A5.68E3

A1.70E4

A5.06E3

A5.27E4

A1.08E7

A9.65E6

A1.08E7

A1.87E7

A1.71E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

A1.87E7

1.3E4

1.1E4

7.9E3

5.3E3

2.6E3

9.1E3

7.3E3

5.5E3

3.6E3

1.8E3

0.0E0

3.1E6

2.5E6

1.9E6

1.2E6

6.2E5

1.8E6

1.5E6

1.1E6

7.4E5

3.7E5

0.0E0

0.0E0

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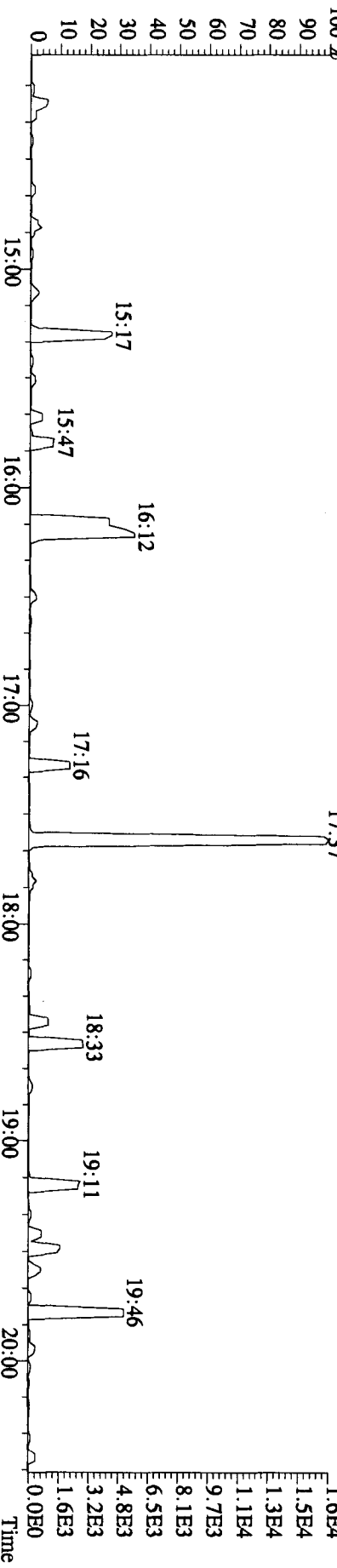
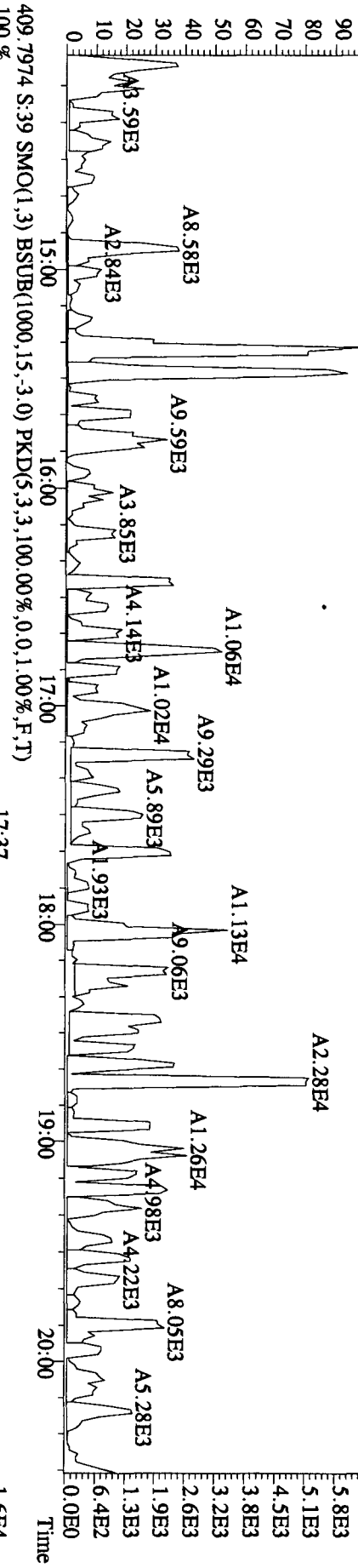
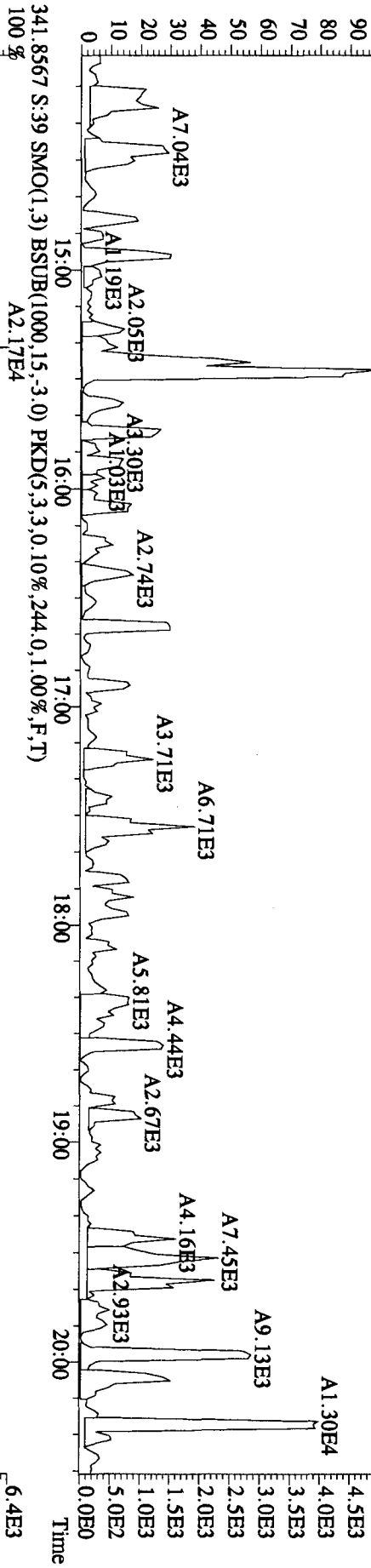
Time

Time

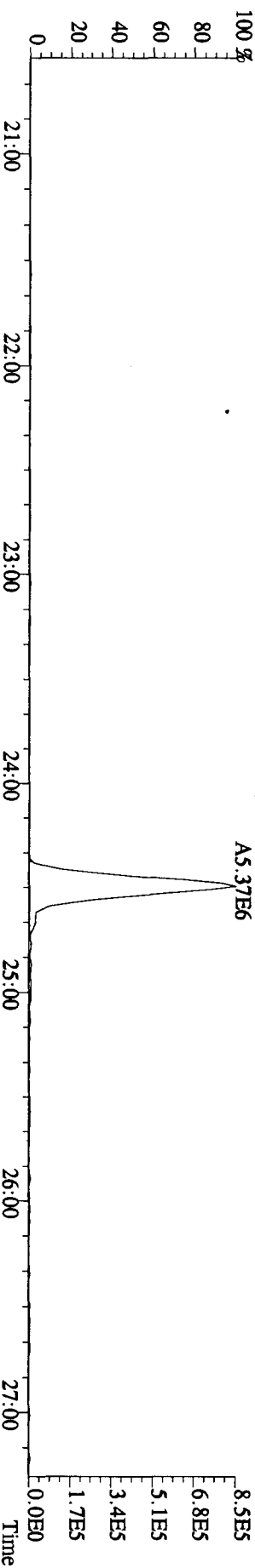
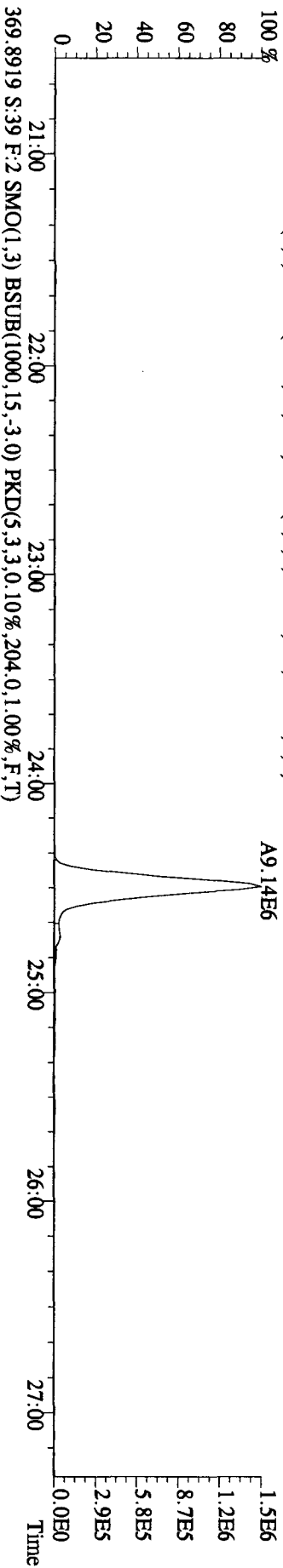
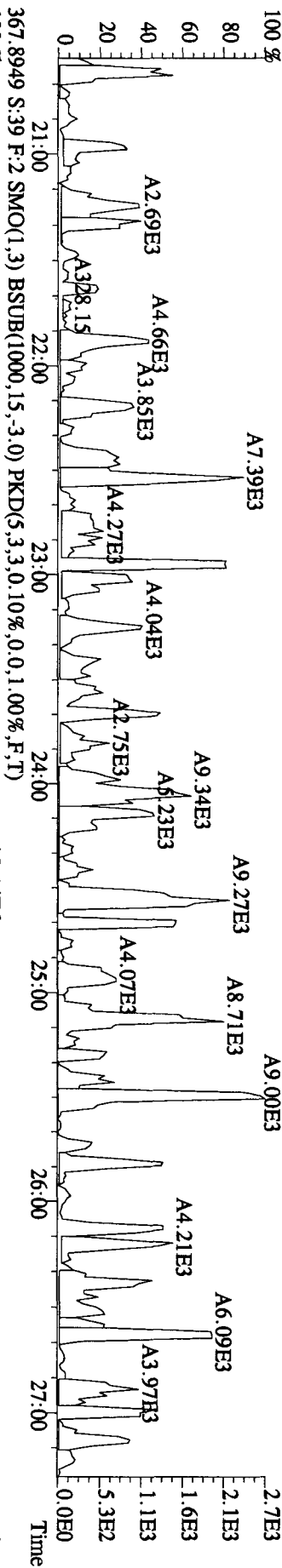
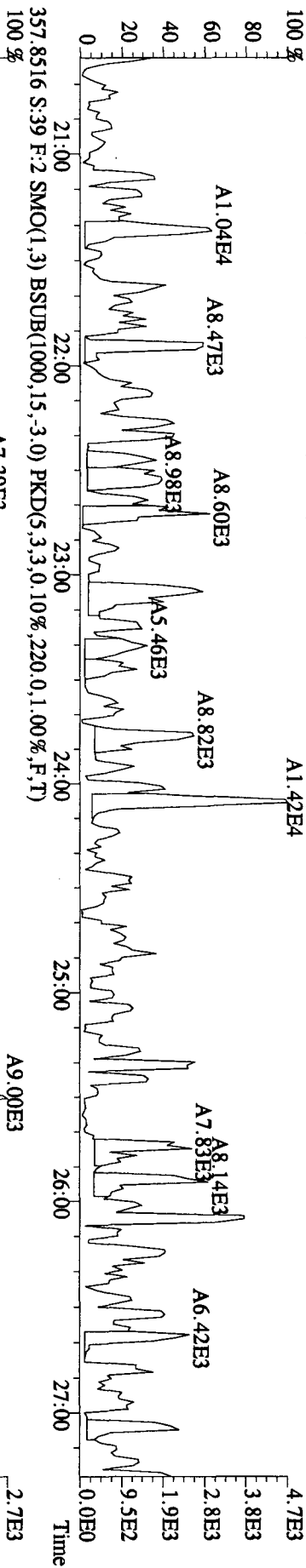
Time

Time

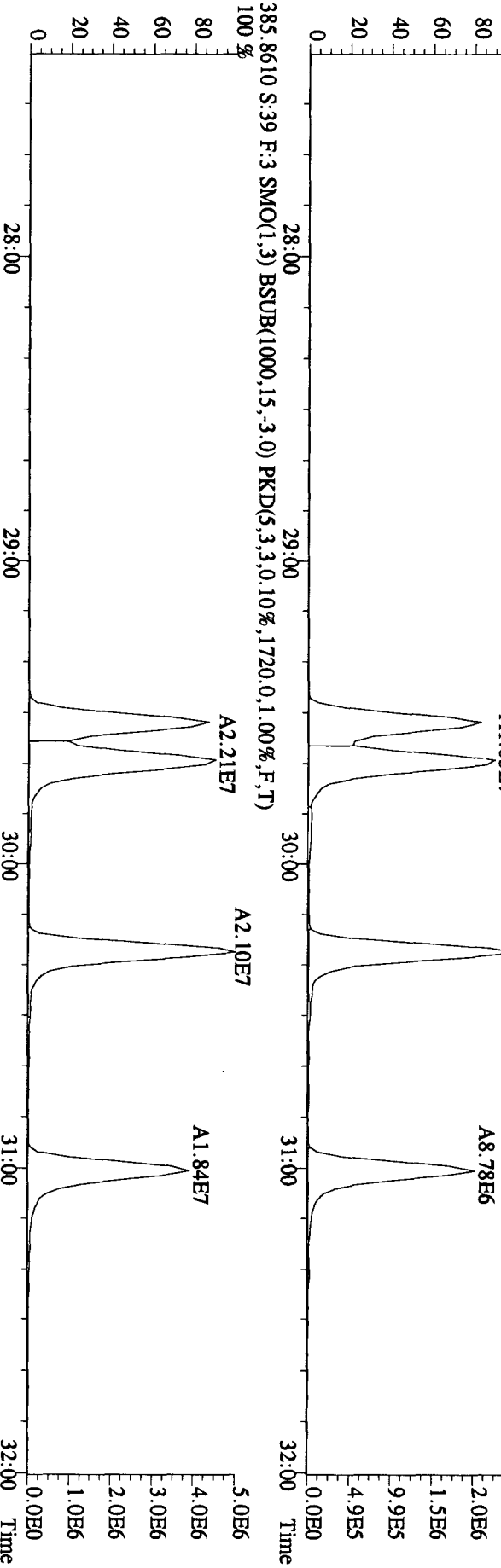
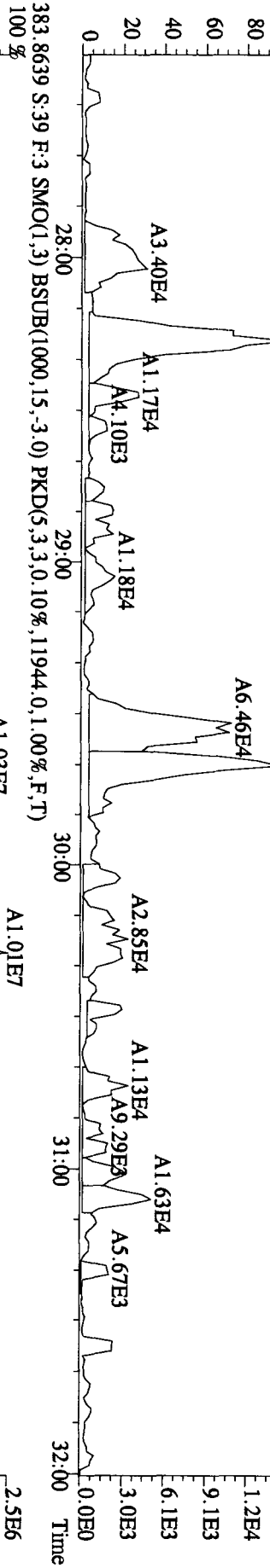
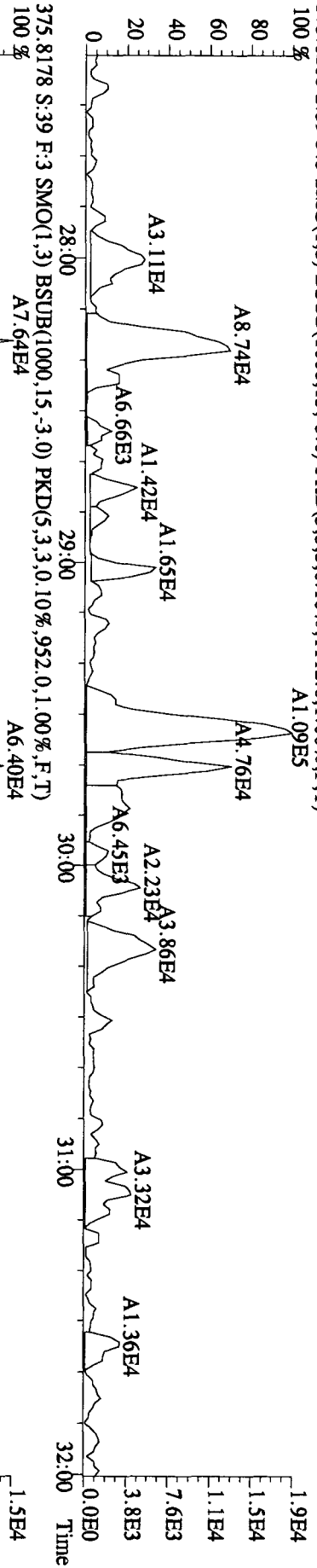
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text: L84RM-1-AA :G01260480-24 Exp: DIOXINRES
 339.8597 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,368,0,1.00%,F,T)
 100%



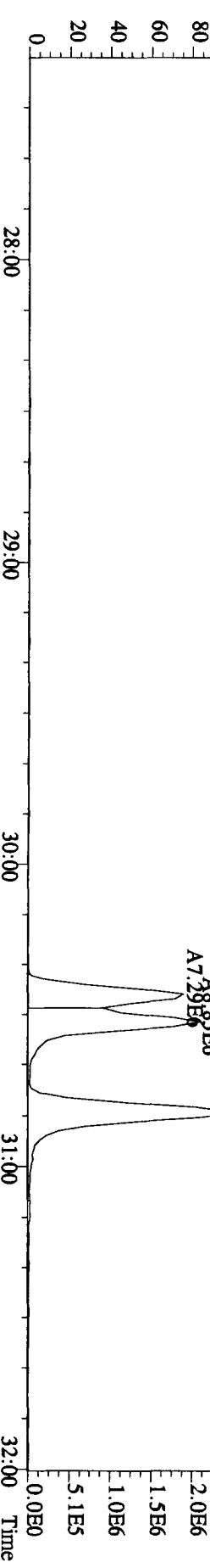
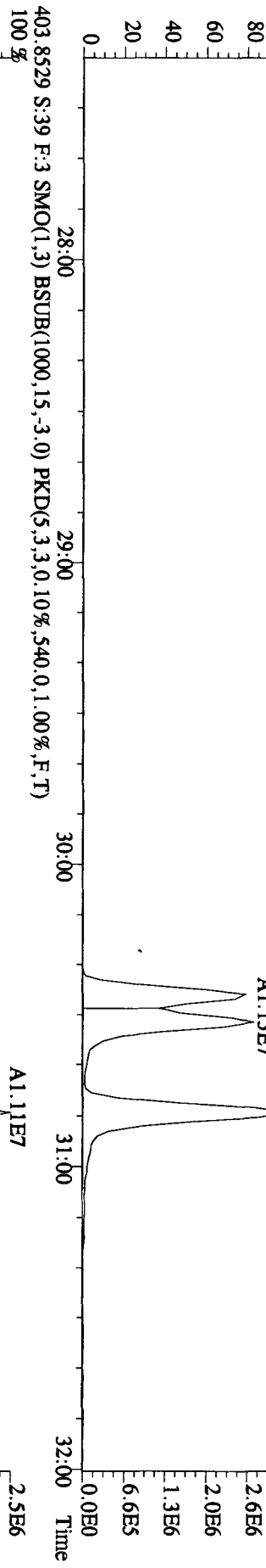
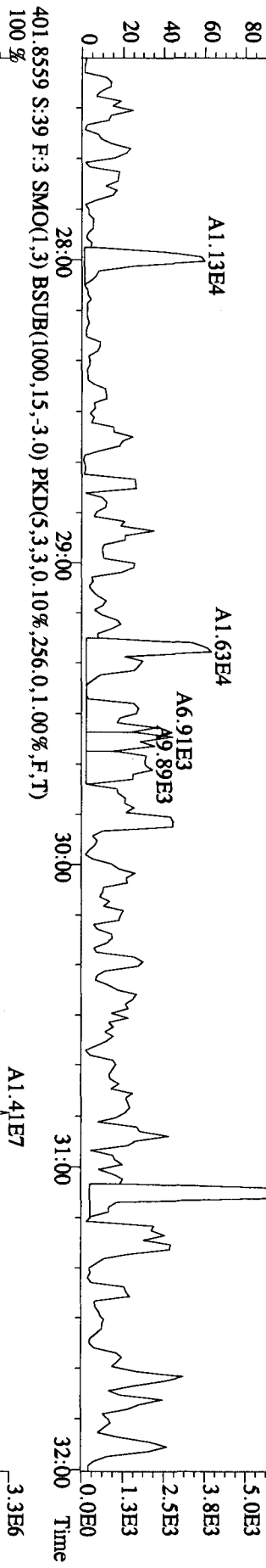
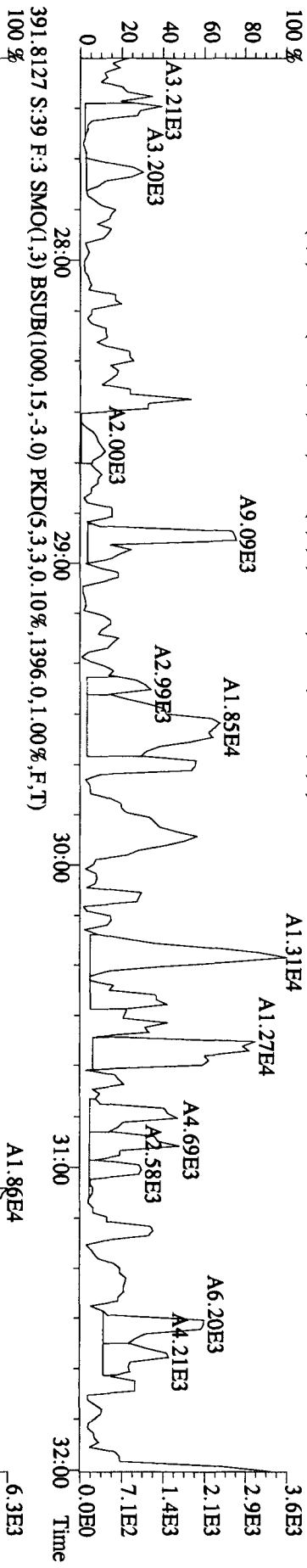
File:02NO10A1IDS #1-422 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
Sample#39 Text:L84RM-1-AA :G0J260480-24 Exp:DIOXINRES
355.8546 S:39 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1196,0,1,00%,F,T) 100%
A1.42E4



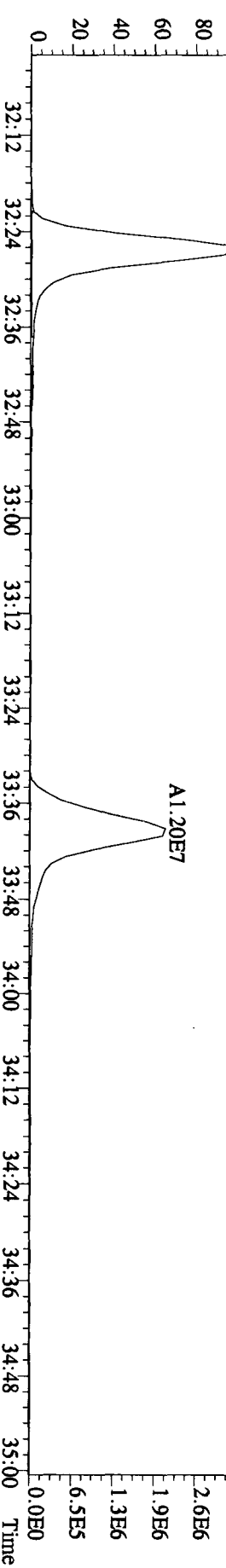
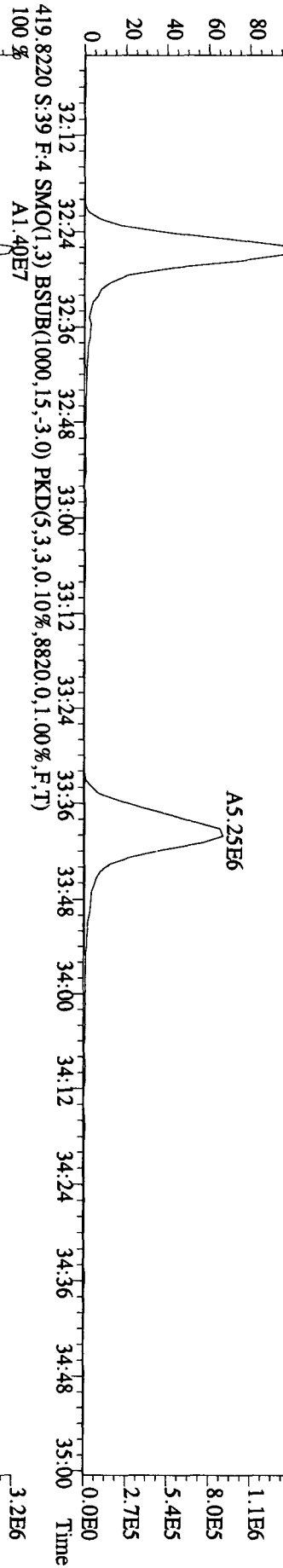
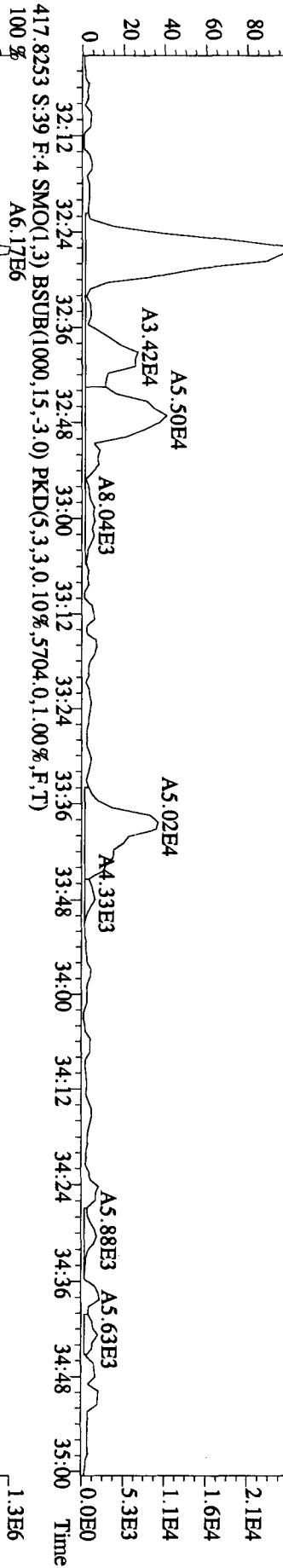
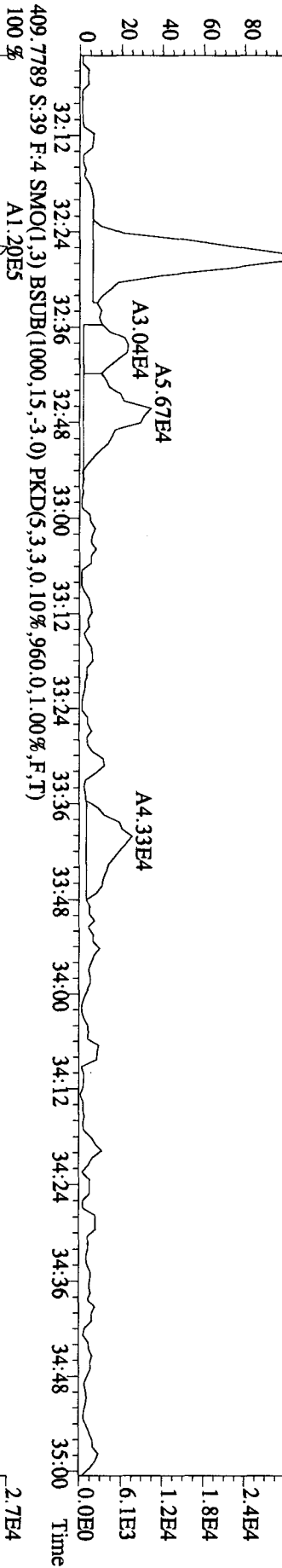
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 17:43:45 GC EI + Voltage SIR 70SE
 Sample#39 Text: L8ARM-1-AA :G01260480-24 Exp: DIOXINRES
 373.8208 S:3.9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1112.0,1.00%,F,T)
 100%

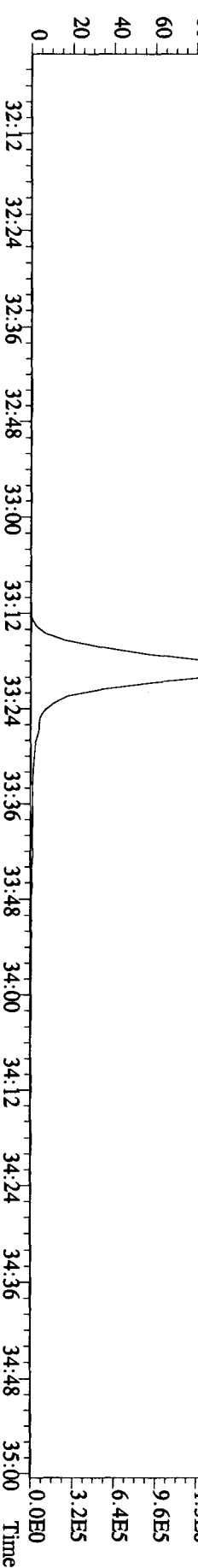
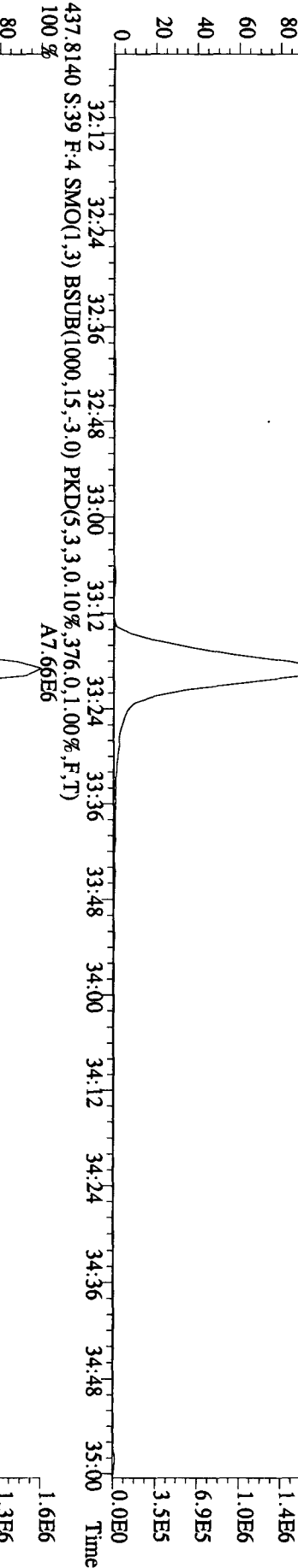
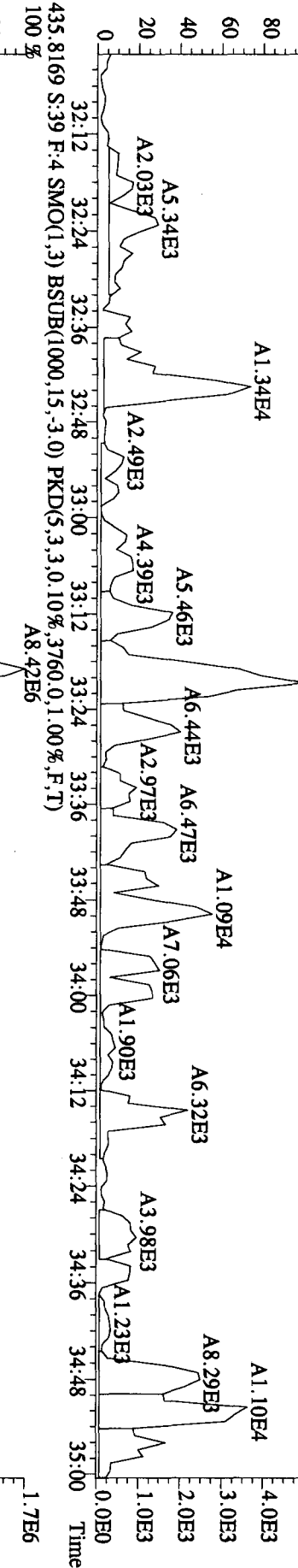
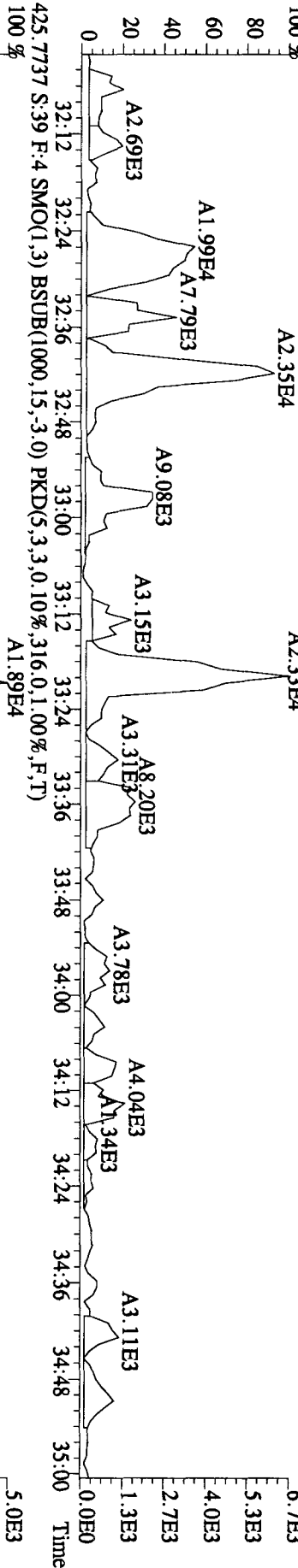


File:02N010A1D5 #1-301 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text:L84RM-1-AA :G01260480-24 Exp:DIOXINRES
 389.8157 S:39 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,700,0,1,00%,F,T)
 100 %

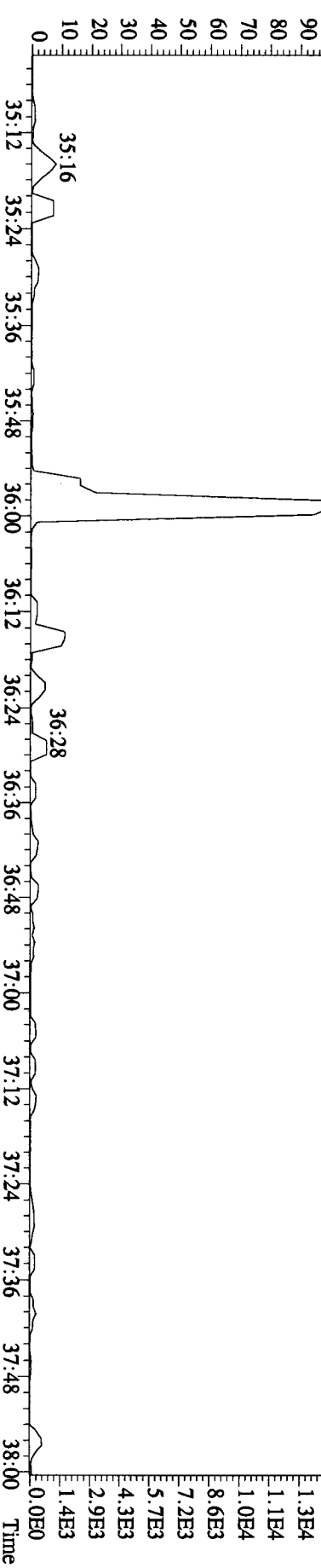
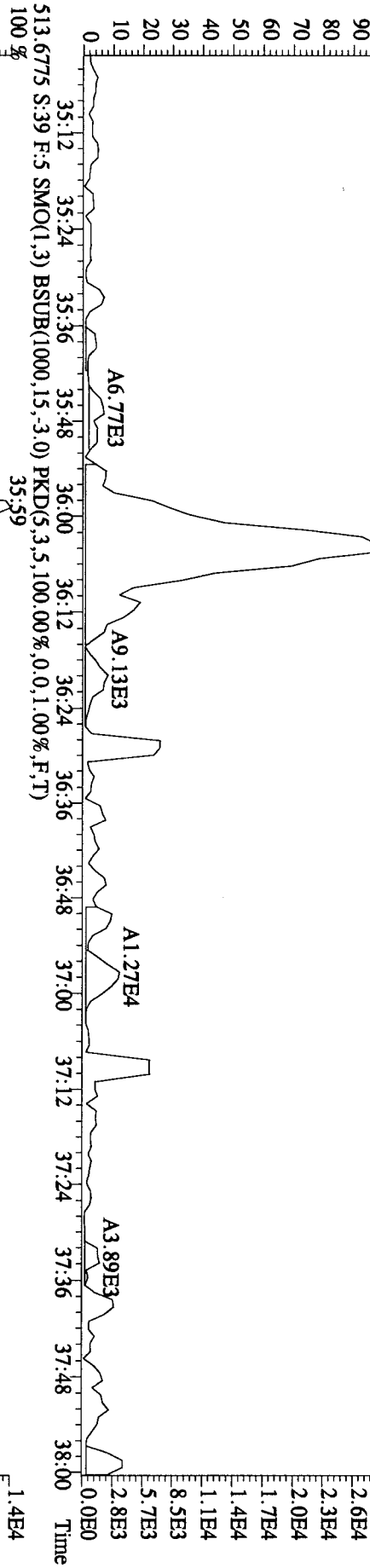
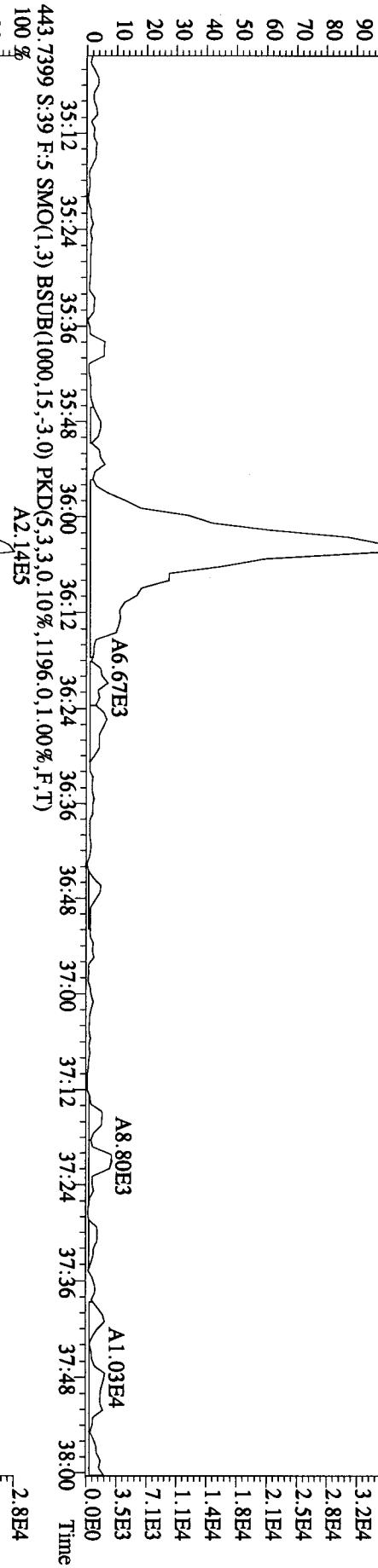


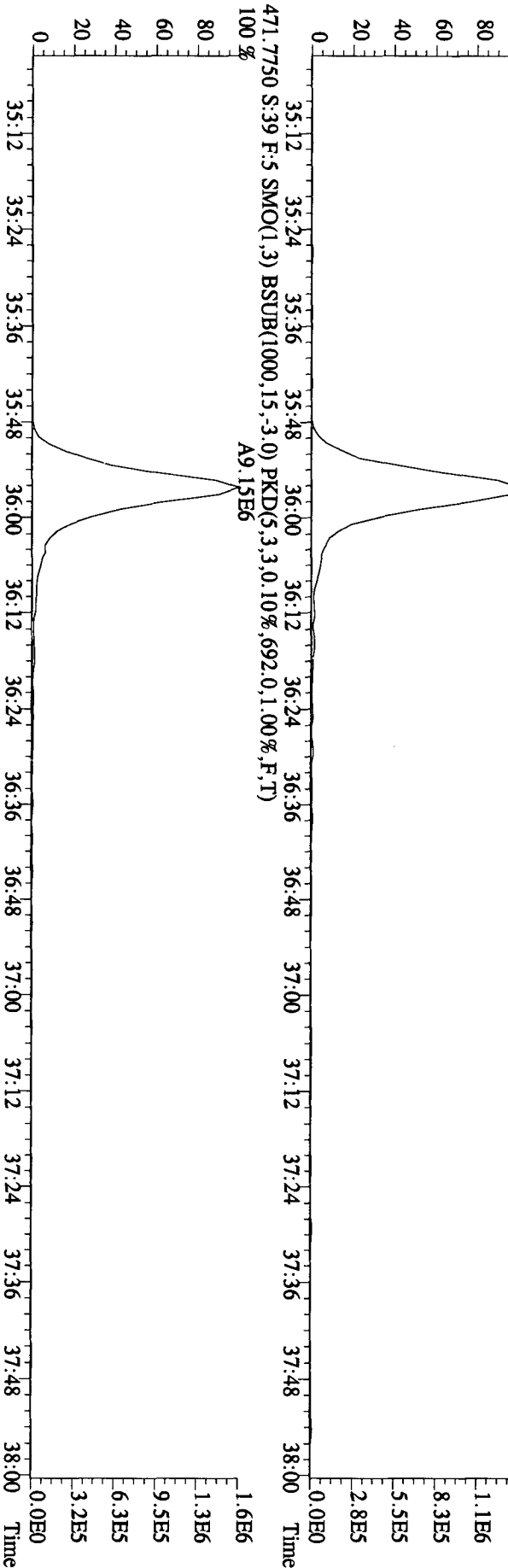
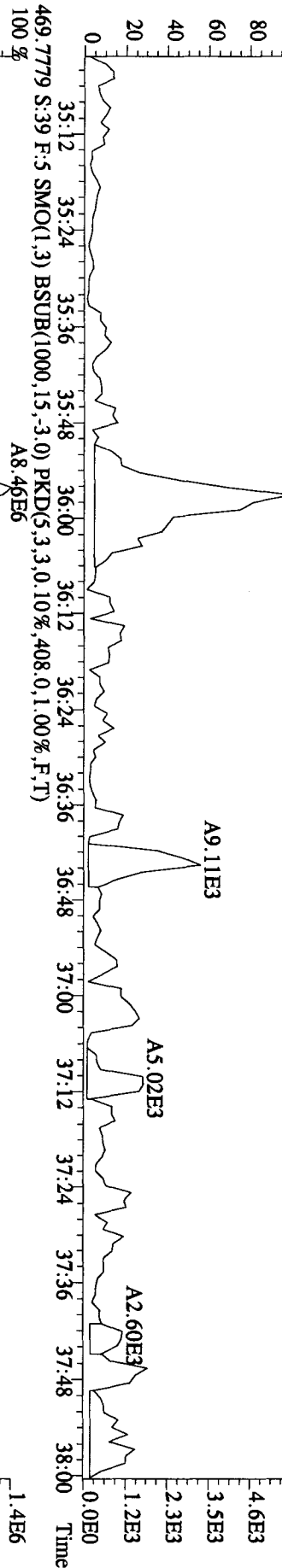
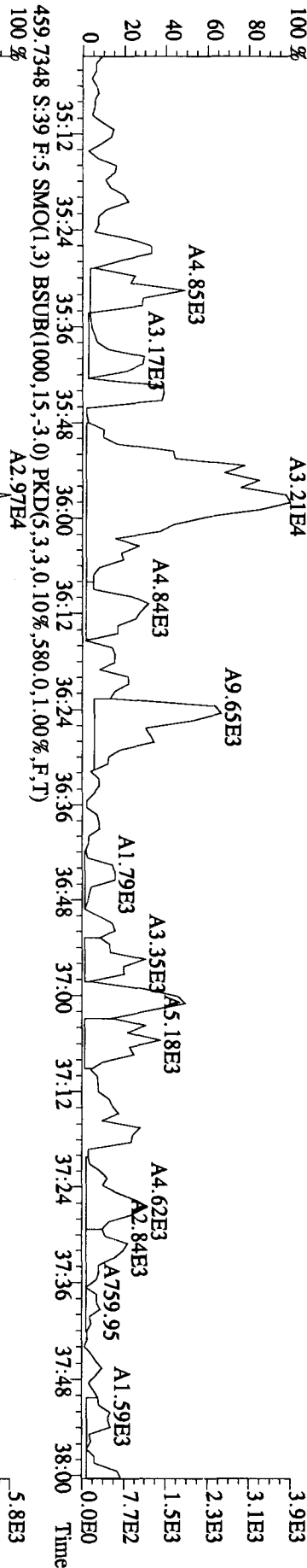
File:02N010A1D5 #1-203 Acq: 3-NOV-2010 17:43:45 GC: EI + Voltage SIR 70SE
 Sample#39 Text:L84RM-1-AA :G01260480-24 Exp:DIOXINRES
 407.7818 S:39 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2208,0.1,00%,F,T)
 100 % A1.19E5



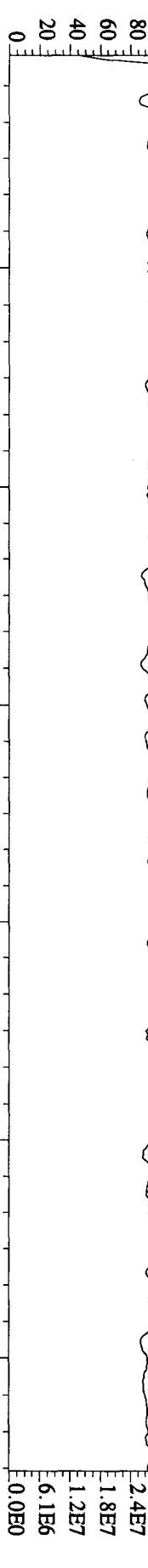


File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text: L84RM-1-AA : G01260480-24 Exp: DIOXINRES
 441.7428 S:39 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,896,0,1.00%,F,T)
 100% A2.22E5

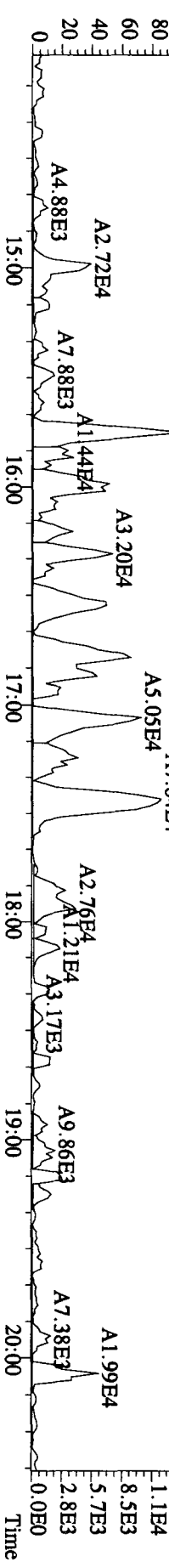




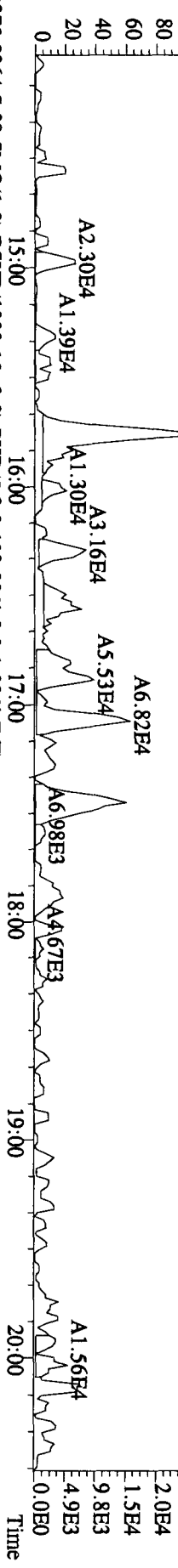
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text:L84RM-1-AA :G0J260480-24 Exp:DIOXINRES
 292.9825 S:39 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
 14:34 14:55 15:24 15:49 16:19 17:05 17:30 17:50 18:14 18:35 18:59 19:40 20:19



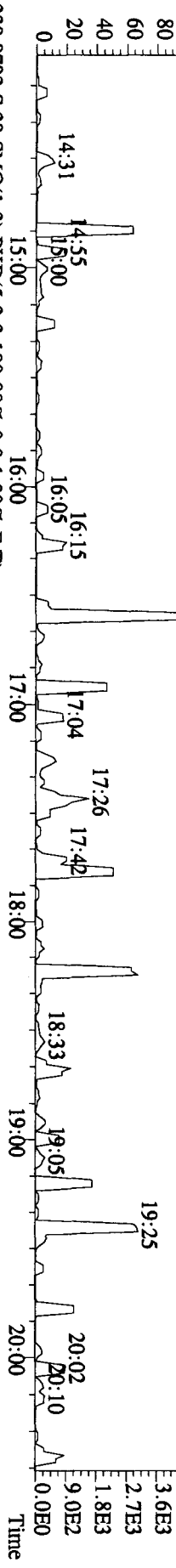
303.9016 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,316,0.1,0.00%,F,T)
 100% 14:34 14:55 15:24 15:49 16:19 17:05 17:30 17:50 18:14 18:35 18:59 19:40 20:19



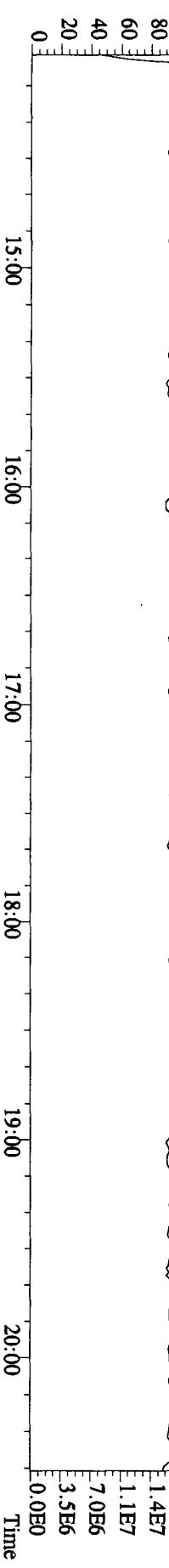
305.8987 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2268,0.1,0.00%,F,T)
 100% 14:34 14:55 15:24 15:49 16:19 17:05 17:30 17:50 18:14 18:35 18:59 19:40 20:19



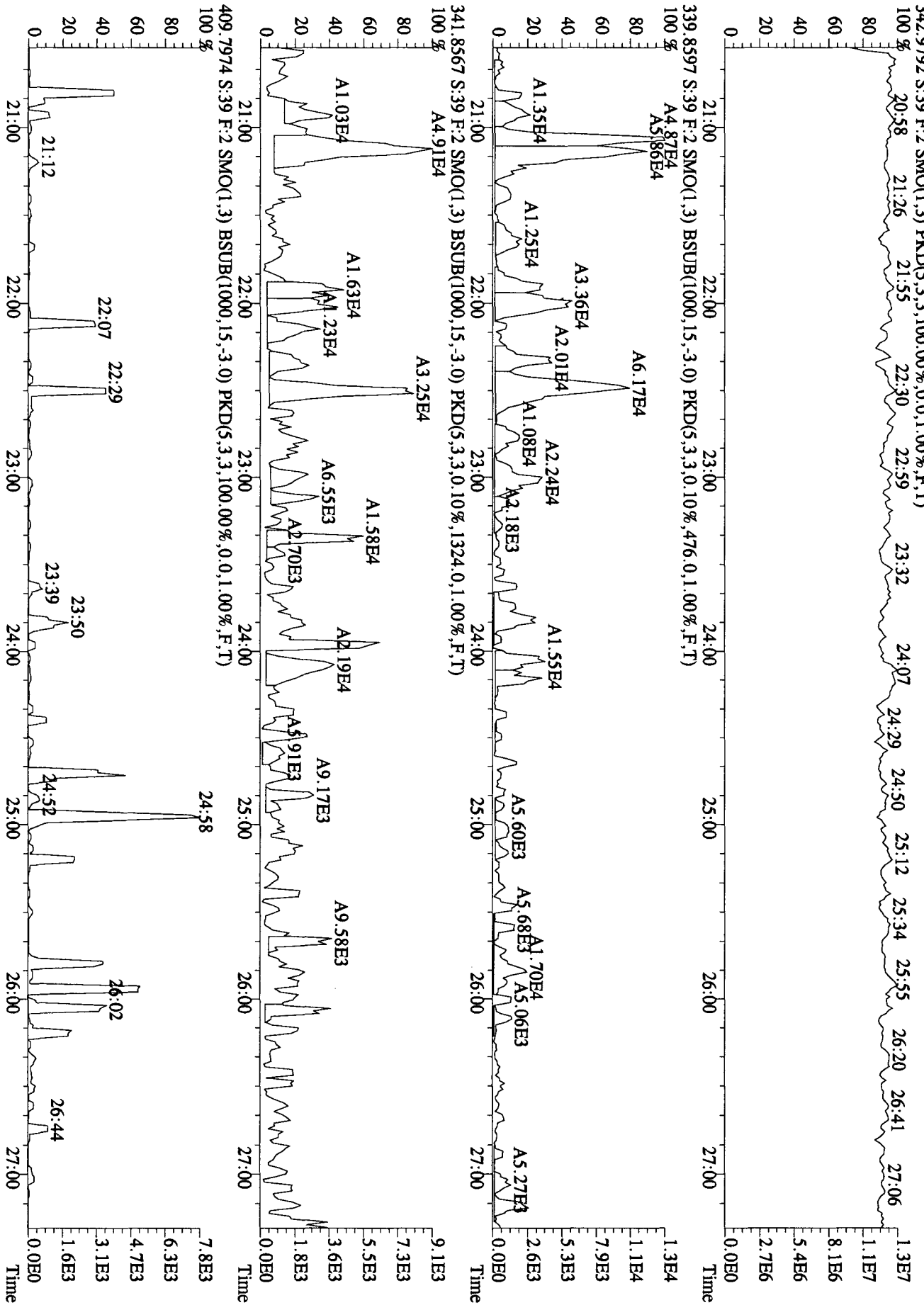
375.8364 S:39 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 14:34 14:55 15:24 15:49 16:19 17:05 17:30 17:50 18:14 18:35 18:59 19:40 20:19



330.9792 S:39 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 14:34 14:55 15:24 15:49 16:19 17:05 17:30 17:50 18:14 18:35 18:59 19:40 20:19

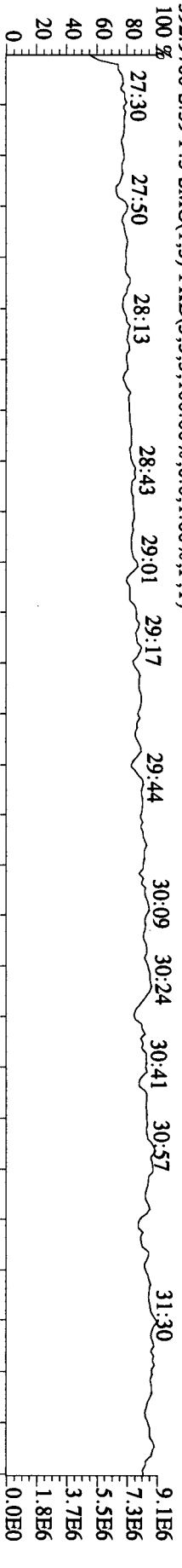


File: 02NO10A1D5 #1-422 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text: L84RM-1-AA :G01260480-24 Exp: DIOXINRES

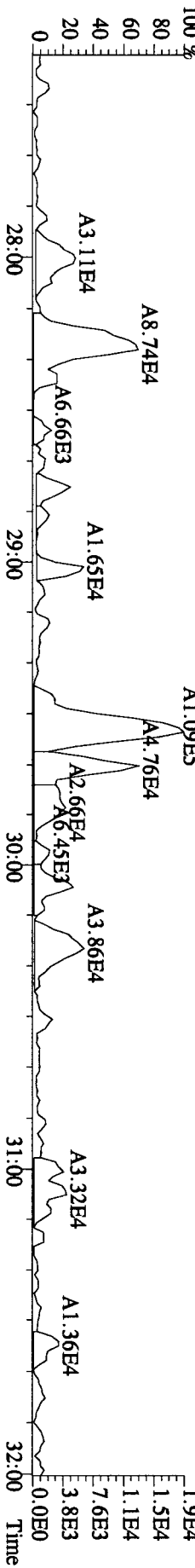


File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
 Sample#39 Text: L84RM-1-AA :G0J260480-24 Exp: DIOXINRES

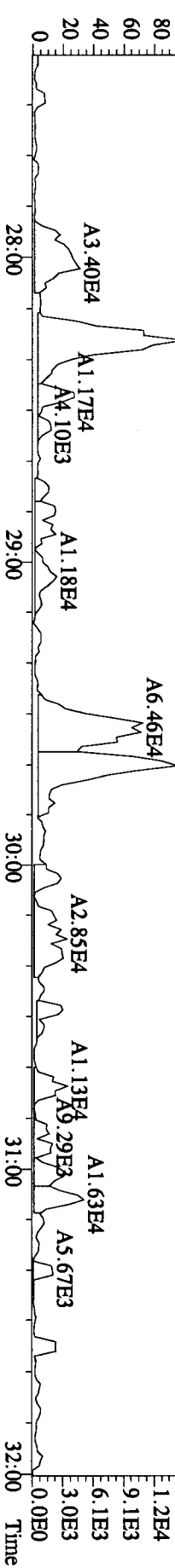
392.9760 S:3.9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



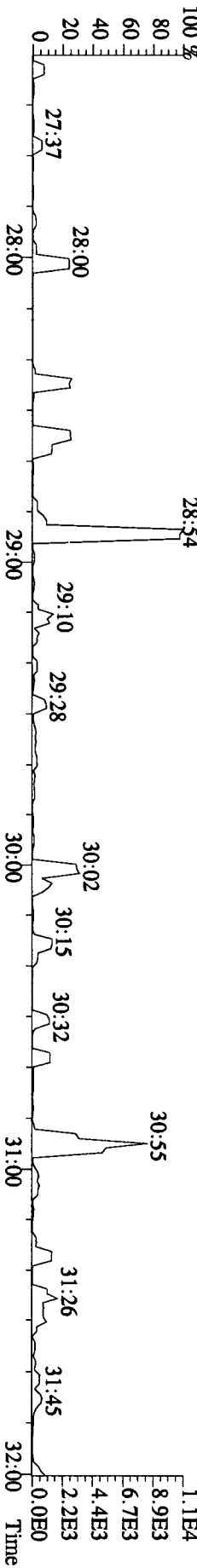
373.8208 S:3.9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1112.0,1.00%,F,T)



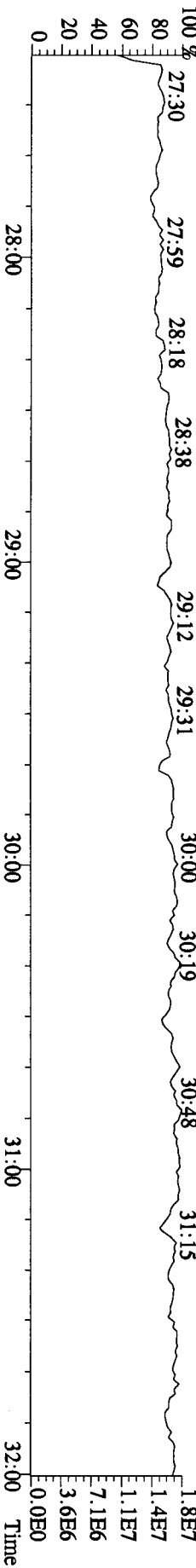
375.8178 S:3.9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,952.0,1.00%,F,T)



445.7555 S:3.9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



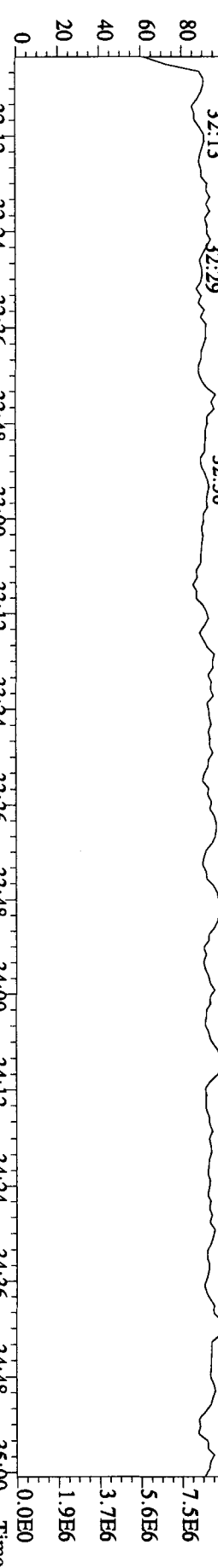
380.9760 S:3.9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



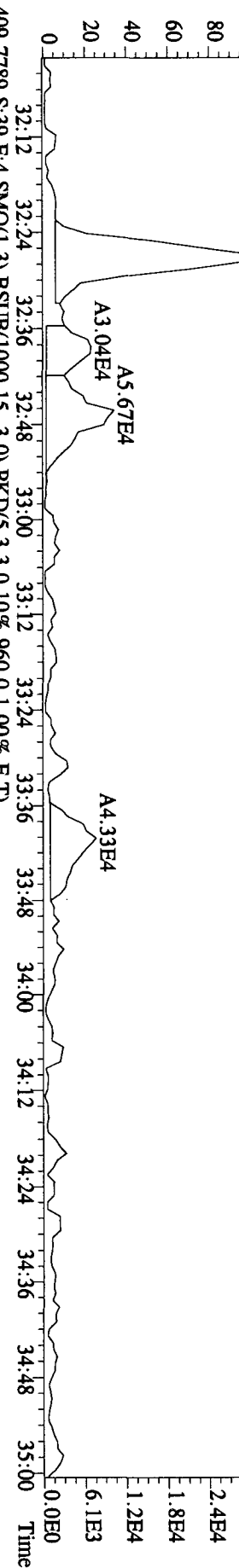
File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE

Sample#39 Text:L84RM-1-AA :C01260480-24 Exp:DIOXINRES

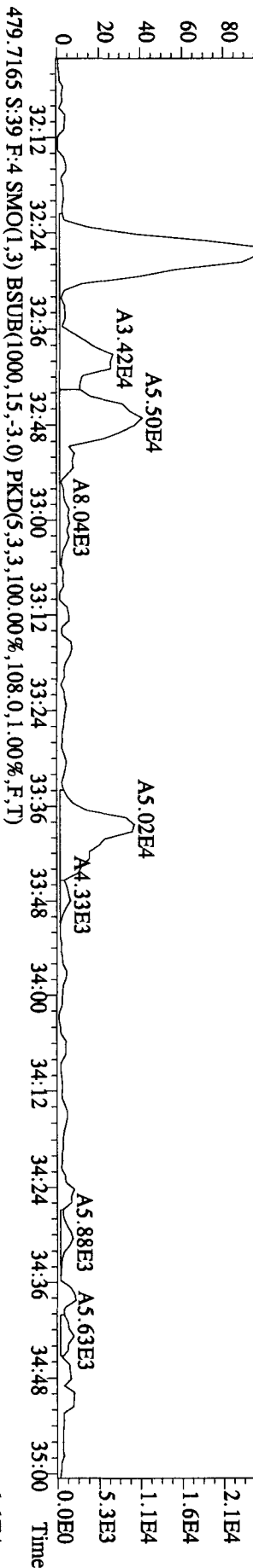
430.9728 S:39 F:4 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



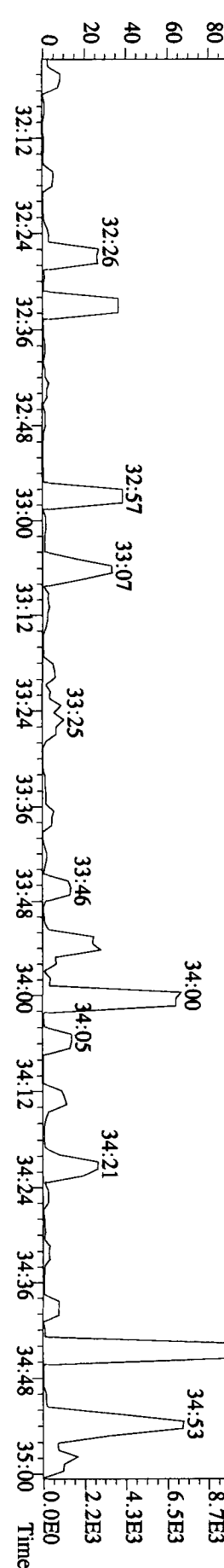
407.7818 S:39 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2208.0,1.00%,F,T)



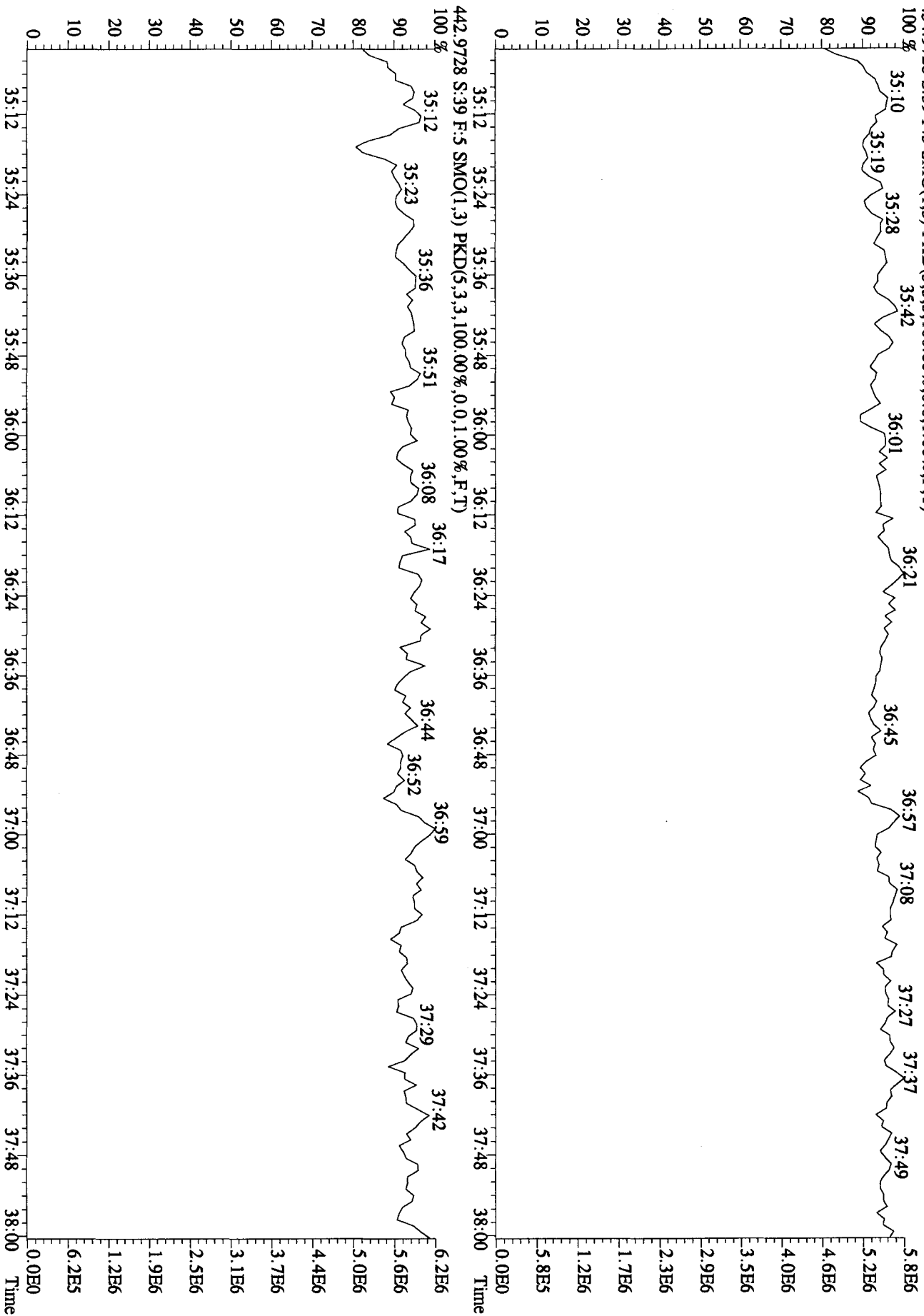
409.7789 S:39 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,960.0,1.00%,F,T)



479.7165 S:39 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100,00%,108.0,1.00%,F,T)



File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 17:43:45 GC EI+ Voltage SIR 70SE
Sample#39 Text: L84RM-1-AA :G0J260480-24 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 TO9102910105

Column ID DB-5

Instrument ID 105

STD ID ST1102D, ST1102E

STD Solution 10DXN505

Analyzed by KCS, NK, MG

Date Analyzed 11-3-10

Std. Pkg. By NK, MG

Date Std. Pkg. Assembled 11-3-10

Std. Pkg. Reviewed By JRB

Date Std. Pkg. Reviewed 11/4/10

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: ST1102D File text: ST1102D :CS3 10DXN505
 Run #6 Filename 02NO10A1D5 S: 27 I: 1
 Acquired: 3-NOV-10 09:09:45 Processed: 3-NOV-10 16:16:24
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	39590300	0.80 y	17:56	-	100.00	-	n
13C-2,3,7,8-TCDF	74727900	0.80 y	17:25	1.89	100.00	19.9	n
2,3,7,8-TCDF	6936050	0.78 y	17:26	0.93	10.00	5.8	n
Total TCDF	7239249	1.05 n	14:07	0.93	10.00	5.8	n
13C-2,3,7,8-TCDD	38476400	0.81 y	18:08	0.97	100.00	-1.8	n
2,3,7,8-TCDD	3855380	0.79 y	18:09	1.00	10.00	6.6	n
Total TCDD	4125007	0.37 n	14:36	1.00	10.00	6.6	n
37Cl-2,3,7,8-TCDD	5025880	1.00 y	18:09	1.31	10.00	11.0	n
13C-1,2,3,7,8-PeCDF	44889600	1.74 y	22:28	1.13	100.00	-1.8	n
1,2,3,7,8-PeCDF	25365390	1.69 y	22:29	1.13	50.00	9.8	n
2,3,4,7,8-PeCDF	23619380	1.67 y	23:49	1.05	50.00	11.1	n
Total F2 PeCDF	49950497	1.69 y	22:29	1.09	100.00	10.4	n
Total F1 PeCDF	181758	0.35 n	14:49	1.09	100.00	10.4	n
13C-1,2,3,7,8-PeCDD	22303600	1.74 y	24:30	0.56	100.00	-15.5	n
1,2,3,7,8-PeCDD	11684830	1.67 y	24:32	1.05	50.00	9.0	n
Total PeCDD	11932897	1.46 y	20:52	1.05	50.00	9.0	n
13C-1,2,3,7,8,9-HxCDD	29030100	1.40 y	30:50	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	42974700	0.50 y	29:32	1.48	100.00	28.9	n
1,2,3,4,7,8-HxCDF	28520300	1.39 y	29:33	1.33	50.00	8.9	n
1,2,3,6,7,8-HxCDF	30288600	1.30 y	29:41	1.41	50.00	0.2	n
2,3,4,6,7,8-HxCDF	27075200	1.34 y	30:19	1.26	50.00	2.3	n
1,2,3,7,8,9-HxCDF	21978190	1.33 y	31:02	1.02	50.00	-5.6	n
Total HxCDF	108096029	3.32 n	28:17	1.25	200.00	1.6	n
13C-1,2,3,6,7,8-HxCDD	30173900	1.38 y	30:32	1.04	100.00	8.4	n
1,2,3,4,7,8-HxCDD	14560380	1.31 y	30:27	0.97	50.00	8.8	n
1,2,3,6,7,8-HxCDD	16889810	1.33 y	30:33	1.12	50.00	6.7	n
1,2,3,7,8,9-HxCDD	15721130	1.30 y	30:51	1.04	50.00	3.7	n
Total HxCDD	47171320	1.31 y	30:27	1.04	150.00	6.3	n
13C-1,2,3,4,6,7,8-HpCDF	28455830	0.41 y	32:26	0.98	100.00	-0.4	n
1,2,3,4,6,7,8-HpCDF	20676200	1.05 y	32:27	1.45	50.00	9.1	n
1,2,3,4,7,8,9-HpCDF	16667530	1.07 y	33:40	1.17	50.00	4.7	n
Total HpCDF	37343730	1.05 y	32:27	1.31	100.00	7.1	n
13C-1,2,3,4,6,7,8-HpCDD	22407800	1.10 y	33:19	0.77	100.00	-6.4	n
1,2,3,4,6,7,8-HpCDD	12146280	1.10 y	33:20	1.08	50.00	3.4	n
Total HpCDD	12437799	0.61 n	32:44	1.08	50.00	3.4	n
13C-OCDD	26605800	0.91 y	35:57	0.46	200.00	-15.4	n
OCDF	22471000	0.90 y	36:04	1.69	100.00	6.9	n
OCDD	15649770	0.88 y	35:57	1.18	100.00	3.8	n

Run text: ST1102E File text: ST1102E :CS3 10DXN505
 Run #19 Filename 02NO10A1D5 S: 41 I: 1
 Acquired: 3-NOV-10 19:09:25 Processed: 3-NOV-10 19:52:35
 Run: 02NO10A1D5 Analyte: TO9 Cal: TO91029101D5 Results: 02NO10A1D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	29103241	0.80 y	17:56	-	100.00	-	n
13C-2,3,7,8-TCDF	52912252	0.80 y	17:25	1.82	100.00	15.5	n
2,3,7,8-TCDF	5112174	0.86 y	17:26	0.97	10.00	10.1	n
Total TCDF	5259309	0.30 n	15:50	0.97	10.00	10.1	n
13C-2,3,7,8-TCDD	28665200	0.78 y	18:07	0.98	100.00	-0.4	n
2,3,7,8-TCDD	3041372	0.82 y	18:08	1.06	10.00	12.9	n
Total TCDD	3243121	3.47 n	14:23	1.06	10.00	12.9	n
37Cl-2,3,7,8-TCDD	3150939	1.00 y	18:08	1.10	10.00	-6.6	n
13C-1,2,3,7,8-PeCDF	32701426	1.62 y	22:28	1.12	100.00	-2.7	n
1,2,3,7,8-PeCDF	18454675	1.69 y	22:30	1.13	50.00	9.7	n
2,3,4,7,8-PeCDF	16944227	1.65 y	23:49	1.04	50.00	9.4	n
Total F2 PeCDF	36019199	3.14 n	21:09	1.08	100.00	9.6	n
Total F1 PeCDF	133853	0.04 n	14:23	1.08	100.00	9.6	n
13C-1,2,3,7,8-PeCDD	15674240	1.77 y	24:30	0.54	100.00	-19.3	n
1,2,3,7,8-PeCDD	8508478	1.66 y	24:32	1.09	50.00	13.0	n
Total PeCDD	8694041	2.02 n	20:45	1.09	50.00	13.0	n
13C-1,2,3,7,8,9-HxCDD	20750607	1.34 y	30:50	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	30369103	0.51 y	29:32	1.46	100.00	27.5	n
1,2,3,4,7,8-HxCDF	19662948	1.40 y	29:33	1.29	50.00	6.2	n
1,2,3,6,7,8-HxCDF	22610981	1.34 y	29:41	1.49	50.00	5.8	n
2,3,4,6,7,8-HxCDF	19176937	1.31 y	30:19	1.26	50.00	2.5	n
1,2,3,7,8,9-HxCDF	16126205	1.32 y	31:02	1.06	50.00	-2.0	n
Total HxCDF	77577071	1.40 y	29:33	1.28	200.00	3.4	n
13C-1,2,3,6,7,8-HxCDD	21716565	1.36 y	30:32	1.05	100.00	9.1	n
1,2,3,4,7,8-HxCDD	10359062	1.29 y	30:27	0.95	50.00	7.5	n
1,2,3,6,7,8-HxCDD	12044798	1.35 y	30:33	1.11	50.00	5.8	n
1,2,3,7,8,9-HxCDD	11028276	1.30 y	30:51	1.02	50.00	1.1	n
Total HxCDD	33531589	1.29 y	30:27	1.03	150.00	4.7	n
13C-1,2,3,4,6,7,8-HpCDF	21216110	0.43 y	32:27	1.02	100.00	3.9	n
1,2,3,4,6,7,8-HpCDF	15071320	1.03 y	32:27	1.42	50.00	6.7	n
1,2,3,4,7,8,9-HpCDF	11790279	1.06 y	33:40	1.11	50.00	-0.7	n
Total HpCDF	27022983	1.03 y	32:27	1.27	100.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDD	15704689	1.16 y	33:19	0.76	100.00	-8.2	n
1,2,3,4,6,7,8-HpCDD	8782739	1.06 y	33:20	1.12	50.00	6.7	n
Total HpCDD	8883954	1.83 n	32:27	1.12	50.00	6.7	n
13C-OCDD	17936036	0.93 y	35:56	0.43	200.00	-20.2	n
OCDF	15016003	0.88 y	36:04	1.67	100.00	6.0	n
OCDD	10551093	0.93 y	35:57	1.18	100.00	3.8	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
02NO10A1D5	1	CP1102	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	2	ST1102	CS3 10DXN505				1.00000	
02NO10A1D5	3	ST1102A	CS3 10DXN505				1.00000	
02NO10A1D5	4	L8M6W-1-AA	G0J180000-356 (489-MB)	20	1613/SOLID	88	10.00000	g
02NO10A1D5	5	L8HPV-1-AA	G0J140643-11	20	1613/SOLID		10.01000	g
02NO10A1D5	6	L8HPW-1-AA	G0J140643-12	20	1613/SOLID		20.00000	g
02NO10A1D5	7	L8HPH-1-AA	G0J140643-1	20	1613/WATER	91	0.98441	L
02NO10A1D5	8	L8HPJ-1-AA	G0J140643-2	20	1613/WATER		0.97757	L
02NO10A1D5	9	L8M6W-1-AC	G0J180000-356 (489-LCS)	20	1613/SOLID	88	10.00000	g
02NO10A1D5	10	ST1102B	CS3 10DXN505				1.00000	
02NO10A1D5	11	CP1102A	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	12	L8940-1-AA	G0J290000-123 (419-MB)	20	1613/WATER	1	1.00000	L
02NO10A1D5	13	L8940-1-AD	G0J290000-123 (419-LFB)	20	1613/WATER		1.00000	L
02NO10A1D5	14	L8940-1-AC	G0J290000-123 (419-LCS)	20	1613/WATER		1.00000	L
02NO10A1D5	15	L82PH-1-AA	G0J190419-1	20	1613/WATER	1	0.91453	L
02NO10A1D5	16	L8P0F-1-AA	G0J190494-1	20	1613/WATER	91	0.96821	L
02NO10A1D5	17	L8P0H-1-AA	G0J190494-2	20	1613/WATER		0.95550	L
02NO10A1D5	18	L8P0J-1-AA	G0J190494-3	20	1613/WATER		0.96442	L
02NO10A1D5	19	L82PP-1-AA	G0J190420-1	20	1613/WATER	1	0.90663	L
02NO10A1D5	20	L8P1T-1-AA	G0J190502-1	20	1613/WATER	91	0.93600	L
02NO10A1D5	21	L8WN2-1-AA	G0J190619-1	20	1613/WATER	91	1.04345	L
VO10A1D5	22	L8HPK-1-AA	G0J140643-3	20	1613/WATER	91	0.97970	L
02NO10A1D5	23	L8199-1-AC	G0J240000-23 (494-LCS)	20	1613/WATER	91	1.00000	L
02NO10A1D5	24	L8199-1-AD	G0J240000-23 (494-DCS)	20	1613/WATER		1.00000	L
02NO10A1D5	25	ST1102C	CS3 10DXN505				1.00000	
02NO10A1D5	26	CP1102B	DB-5 CPSM 3732-10		(LOST LOCK)		1.00000	
02NO10A1D5	27	ST1102D	CS3 10DXN505				1.00000	
02NO10A1D5	28	CP1102C	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	29	L84XJ-1-AA	G0J260480-3MB	20	TO9/AIR	98	0.50000	Sam
02NO10A1D5	30	L84XJ-1-AC	G0J260480-3LCS	20	TO9/AIR		0.50000	Sam
02NO10A1D5	31	L84M1-1-AA	G0J260480-3	20	TO9/AIR		0.50000	Sam
02NO10A1D5	32	L84M7-1-AA	G0J260480-6	20	TO9/AIR		0.50000	Sam
02NO10A1D5	33	L84NE-1-AA	G0J260480-7	20	TO9/AIR		0.50000	Sam
02NO10A1D5	34	L84NP-1-AA	G0J260480-9	20	TO9/AIR		0.50000	Sam
02NO10A1D5	35	L89C5-1-AC	G0J270601-1LCS RI	20	8290/SOLID	99	10.00000	g
02NO10A1D5	36	L84N6-1-AA	G0J260480-13	20	TO9/AIR		0.50000	Sam
02NO10A1D5	37	L84Q3-1-AA	G0J260480-17	20	TO9/AIR		0.50000	Sam
02NO10A1D5	38	L84Q7-1-AA	G0J260480-21	20	TO9/AIR		0.50000	Sam
02NO10A1D5	39	L84RM-1-AA	G0J260480-24	20	TO9/AIR		0.50000	Sam
02NO10A1D5	40	L84XJ-1-AD	G0J260480-3DCS	20	TO9/AIR		0.50000	Sam
02NO10A1D5	41	ST1102E	CS3 10DXN505				1.00000	
02NO10A1D5	42	CP1102D	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	43	L8XN9-1-AA	G0J170406-1MB	20	8290/WIPE	92	0.50000	Sam
02NO10A1D5	44	L8LCQ-1-AA	G0J150620-1	20	8290/SOLID	90	10.00000	g
02NO10A1D5	45	L8P14-1-AA	G0J190503-1	20	8290/WIPE	92	0.50000	Sam
02NO10A1D5	46	L8P19-1-AA	G0J190503-2	20	8290/WIPE		0.50000	Sam
02NO10A1D5	47	L8L53-2-AA	G0J170406-1RX	20	8290/WIPE	100	0.25000	Sam
02NO10A1D5	48	L8L54-2-AA	G0J170406-2RX	20	8290/WIPE		0.25000	Sam
02NO10A1D5	49	L8L55-2-AA	G0J170406-3RX	20	8290/WIPE		0.25000	Sam
02NO10A1D5	50	L8L56-2-AA	G0J170406-4RX	20	8290/WIPE		0.25000	Sam
02NO10A1D5	51	L8L57-2-AA	G0J170406-5RX	20	8290/WIPE		0.25000	Sam
02NO10A1D5	52	L8L58-2-AA	G0J170406-6RX	20	8290/WIPE		0.25000	Sam
02NO10A1D5	53	L8L59-2-AA	G0J170406-7RX	20	8290/WIPE		0.25000	Sam

*log file vid
NK 11/3/10*

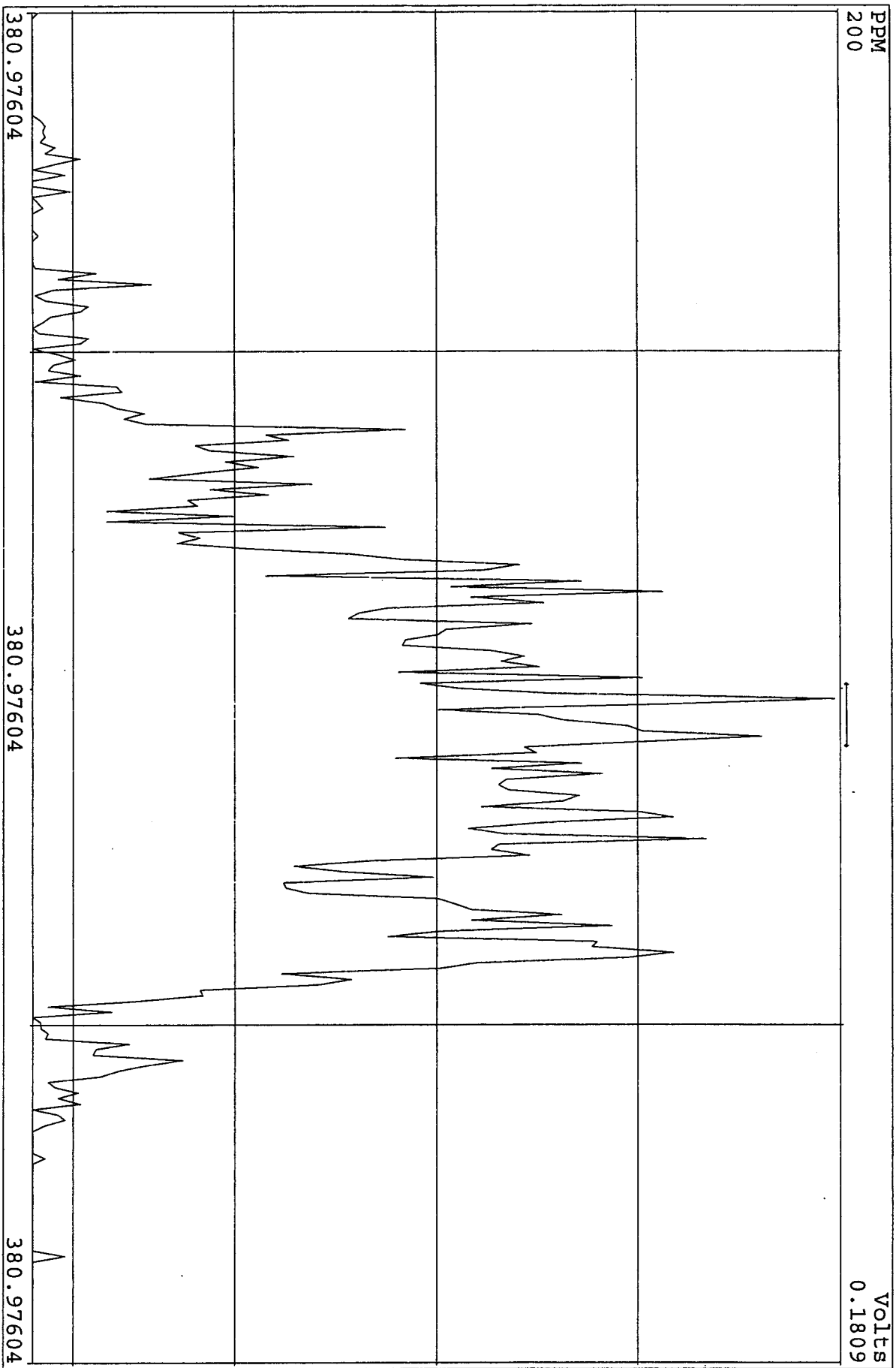
02NO10A1D5	54	L8RLT-1-AC	G0J200489-1	20	8290/SOLID	94	10.71000	Sam
02NO10A1D5	55	SB1102	Solvent Blank				1.00000	
02NO10A1D5	56	ST1102F	CS3 10DXN505				1.00000	
NO10A1D5	57						1.00000	
02NO10A1D5	58						1.00000	
02NO10A1D5	59						1.00000	
02NO10A1D5	60						1.00000	
02NO10A1D5	61						1.00000	
02NO10A1D5	62						1.00000	
02NO10A1D5	63		KSS,NK,MG 11/02/10				1.00000	

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
02NO10A1D5	1	CP1102	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	2	ST1102	CS3 10DXN505				1.00000	
02NO10A1D5	3	ST1102A	CS3 10DXN505				1.00000	
02NO10A1D5	4	L8M6W-1-AA	G0J180000-356 (489-MB)	20	1613/SOLID	88	10.00000	g
02NO10A1D5	5	L8HPV-1-AA	G0J140643-11	20	1613/SOLID		10.01000	g
02NO10A1D5	6	L8HPW-1-AA	G0J140643-12	20	1613/SOLID		20.00000	g
02NO10A1D5	7	L8HPH-1-AA	G0J140643-1	20	1613/WATER	91	0.98441	L
02NO10A1D5	8	L8HPJ-1-AA	G0J140643-2	20	1613/WATER		0.97757	L
02NO10A1D5	9	L8M6W-1-AC	G0J180000-356 (489-LCS)	20	1613/SOLID	88	10.00000	g
02NO10A1D5	10	ST1102B	CS3 10DXN505				1.00000	
02NO10A1D5	11	CP1102A	DB-5 CPSM 3732-10				1.00000	
02NO10A1D5	12	L8940-1-AA	G0J290000-123 (419-MB)	20	1613/WATER	1	1.00000	L
02NO10A1D5	13	L8940-1-AD	G0J290000-123 (419-LFB)	20	1613/WATER		1.00000	L
02NO10A1D5	14	L8940-1-AC	G0J290000-123 (419-LCS)	20	1613/WATER		1.00000	L
02NO10A1D5	15	L82PH-1-AA	G0J190419-1	20	1613/WATER	1	0.91453	L
02NO10A1D5	16	L8POF-1-AA	G0J190494-1	20	1613/WATER	91	0.96821	L
02NO10A1D5	17	L8POH-1-AA	G0J190494-2	20	1613/WATER		0.95550	L
02NO10A1D5	18	L8POJ-1-AA	G0J190494-3	20	1613/WATER		0.96442	L
02NO10A1D5	19	L82PP-1-AA	G0J190420-1	20	1613/WATER	1	0.90663	L
02NO10A1D5	20	L8P1T-1-AA	G0J190502-1	20	1613/WATER	91	0.93600	L
02NO10A1D5	21	L8WN2-1-AA	G0J190619-1	20	1613/WATER	91	1.04345	L
02NO10A1D5	22	L8HPK-1-AA	G0J140643-3	20	1613/WATER	91	0.97970	L
02NO10A1D5	23	L8199-1-AC	G0J240000-23 (494-LCS)	20	1613/WATER	91	1.00000	L
02NO10A1D5	24	L8199-1-AD	G0J240000-23 (494-DCS)	20	1613/WATER		1.00000	L
02NO10A1D5	25						1.00000	
02NO10A1D5	26						1.00000	
02NO10A1D5	27						1.00000	
02NO10A1D5	28						1.00000	
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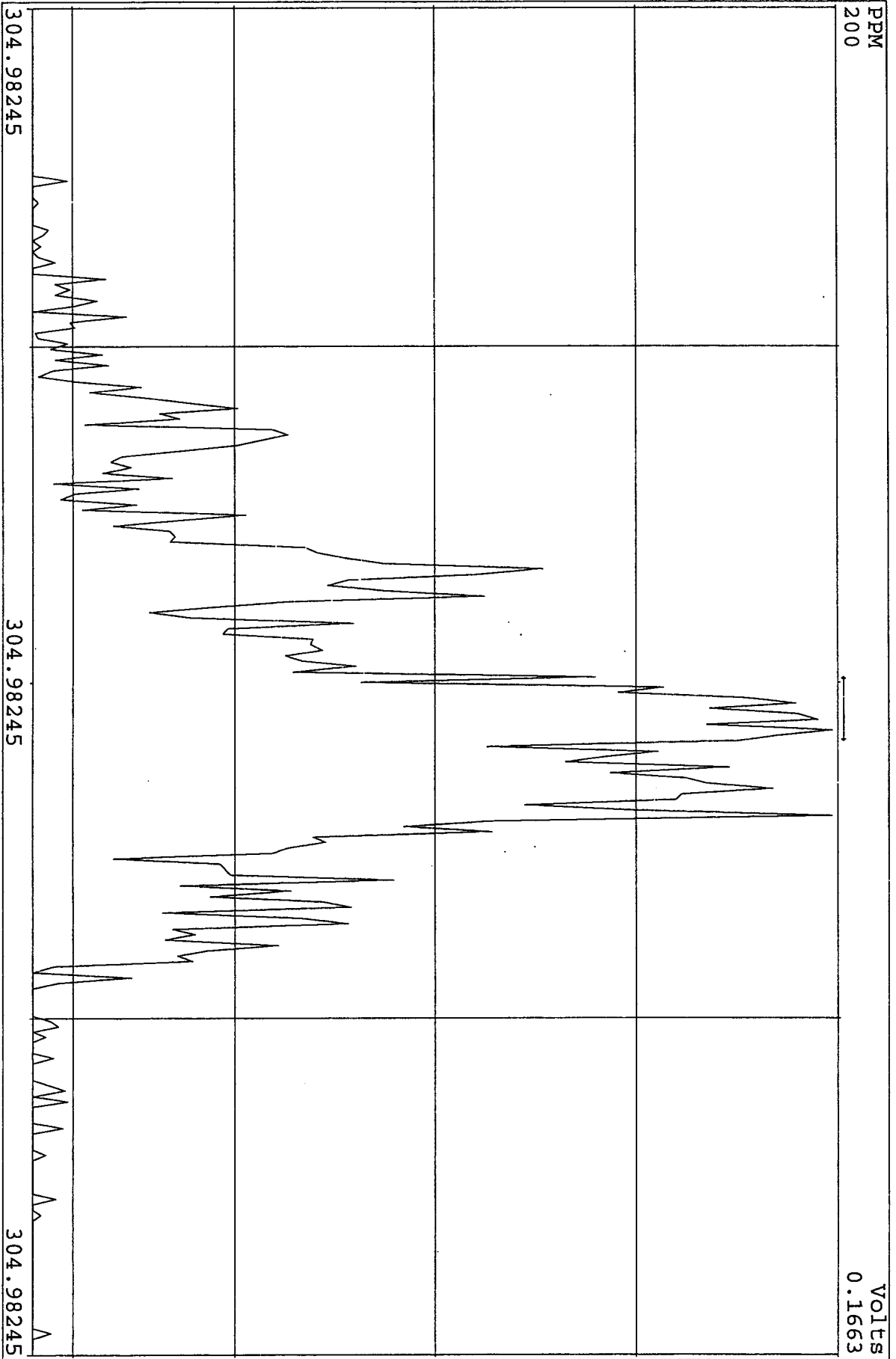
KSS, NK 11-02-10

*Logfile via
11/2/10
KSS*

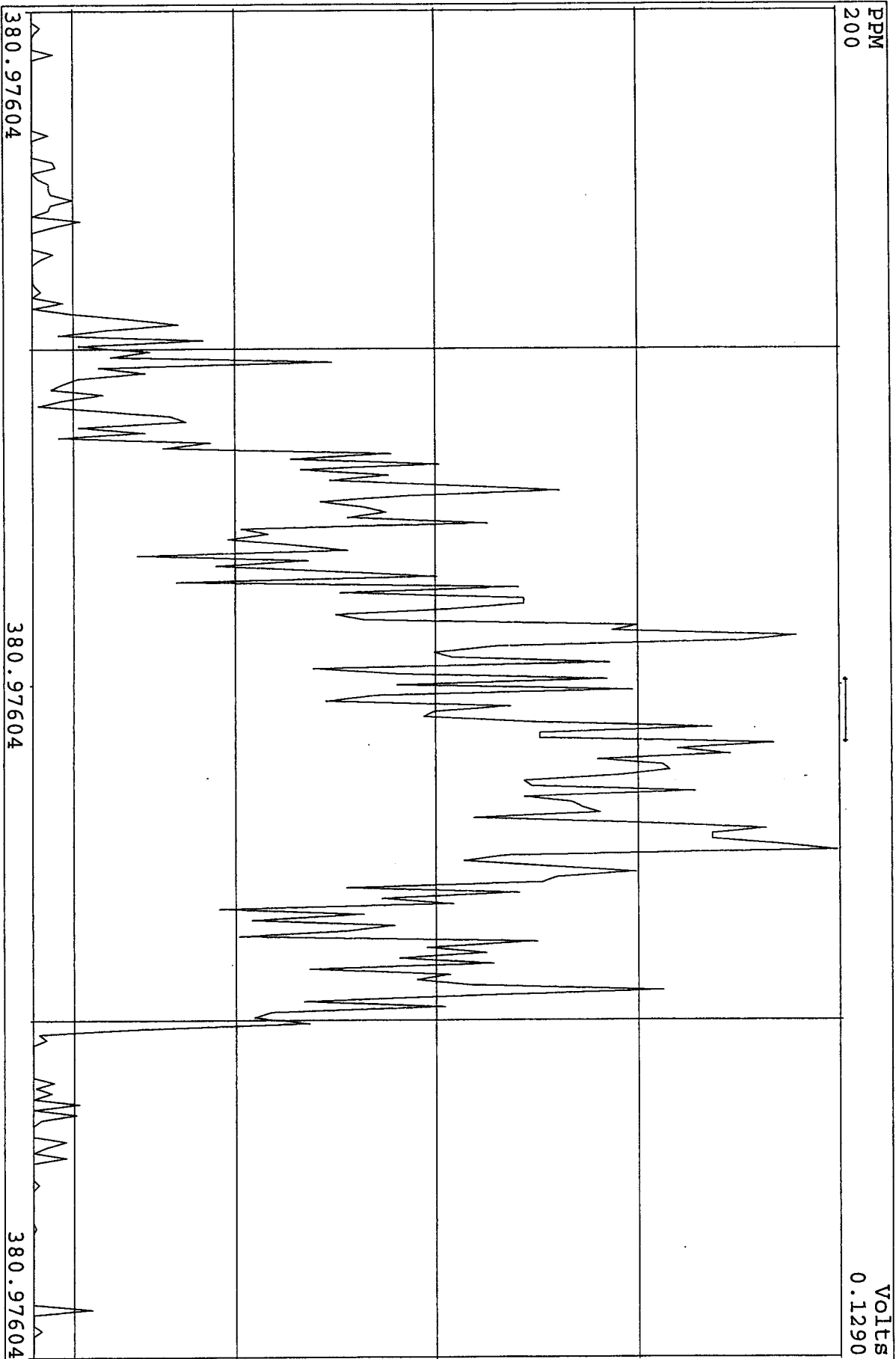
SIRIM Examination: 3-NOV-2010:09:05 File:02NO10A1D5
Experiment:DIOXIN Function:6



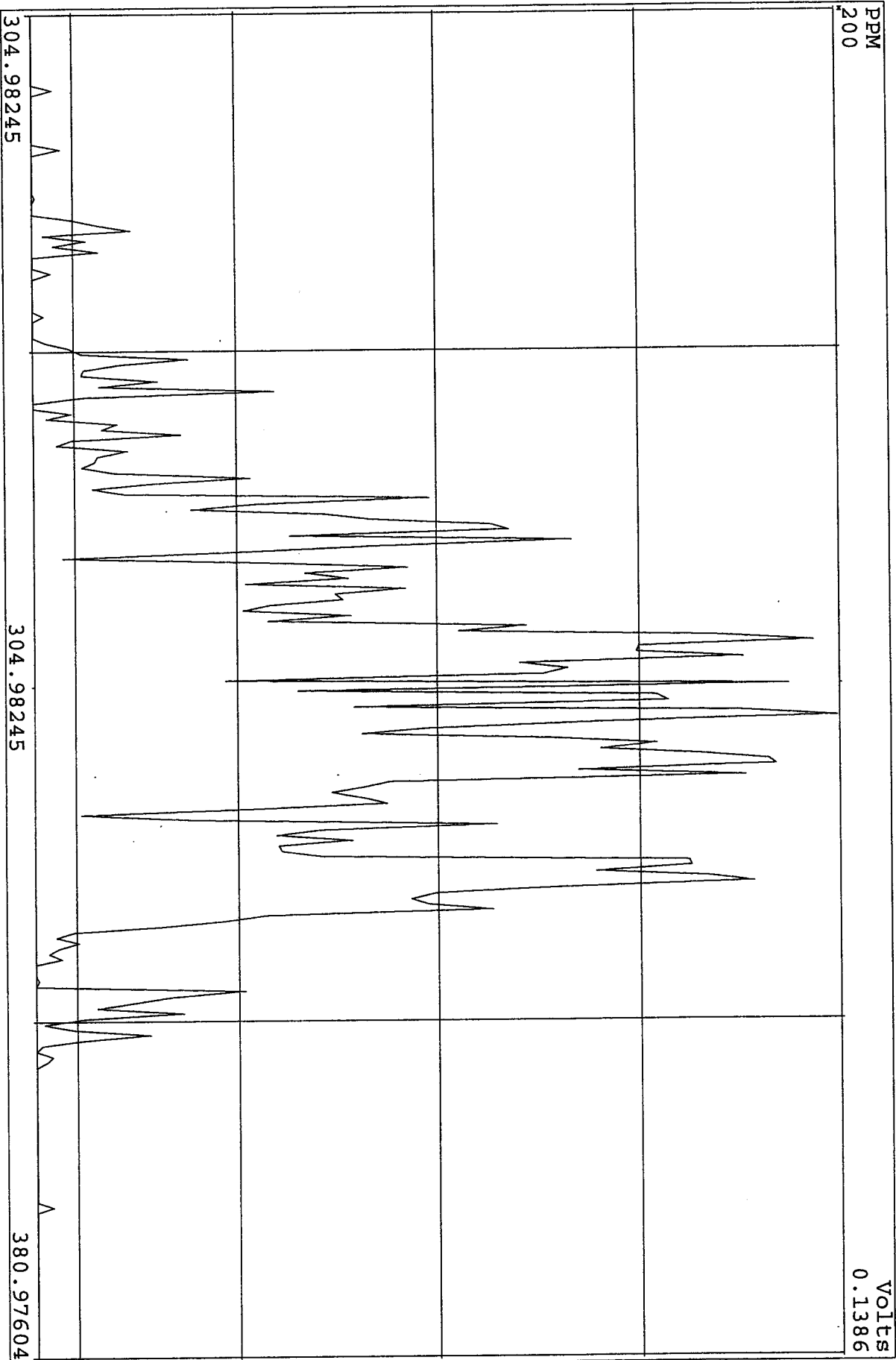
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Experiment:DIOXIN Function:7



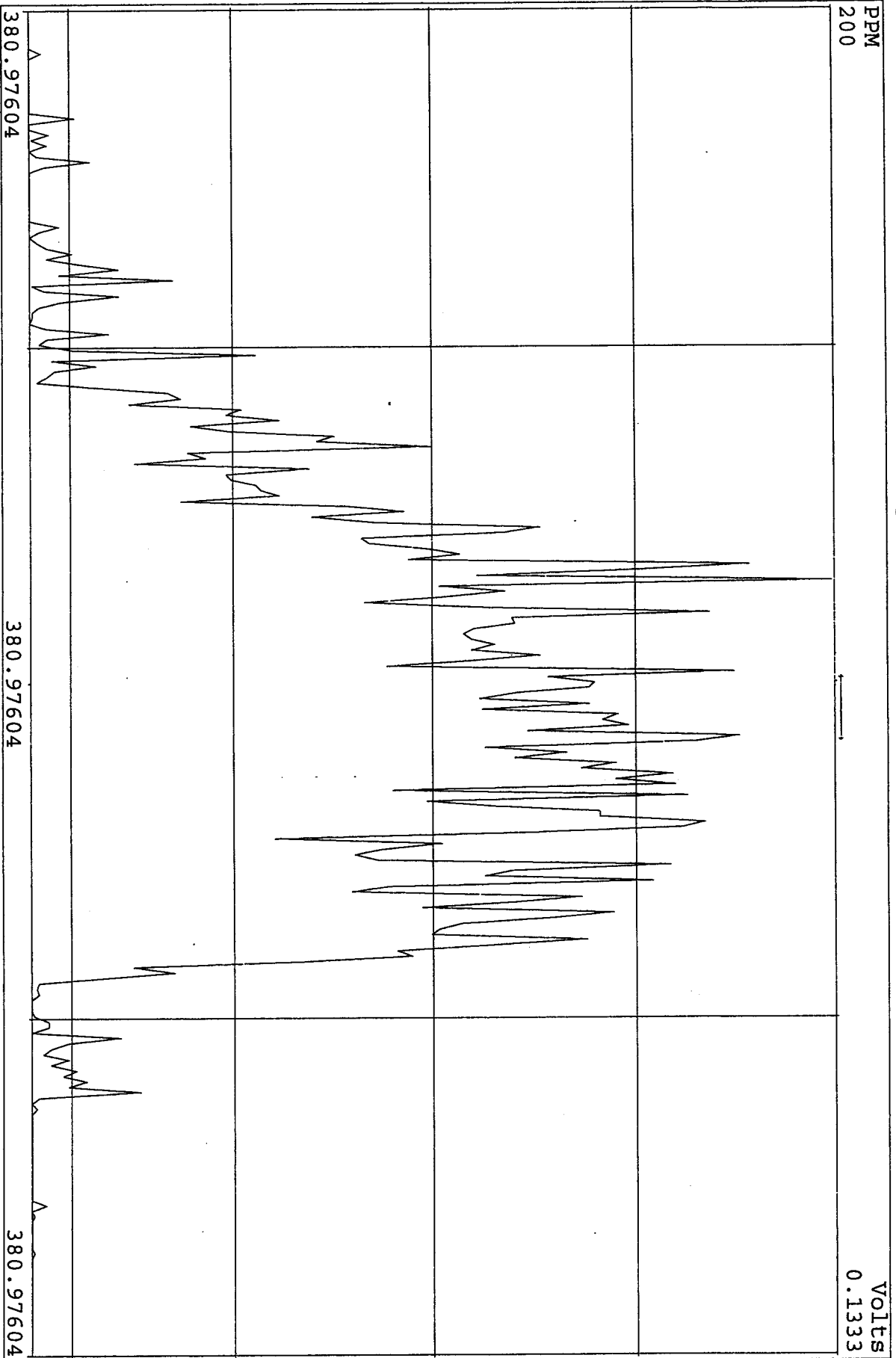
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Experiment:DIOXIN Function:6



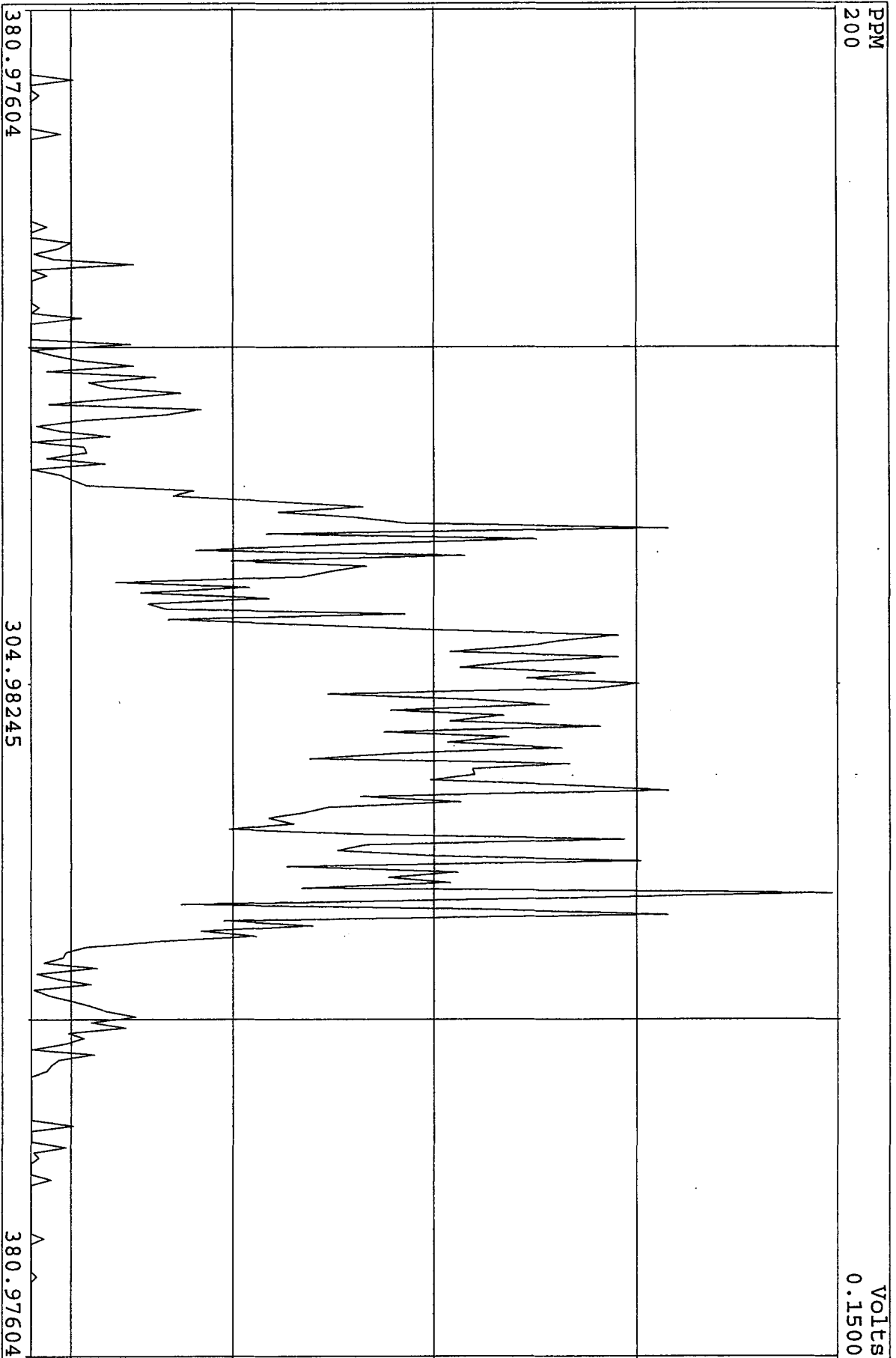
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Experiment:DIOXIN Function:7



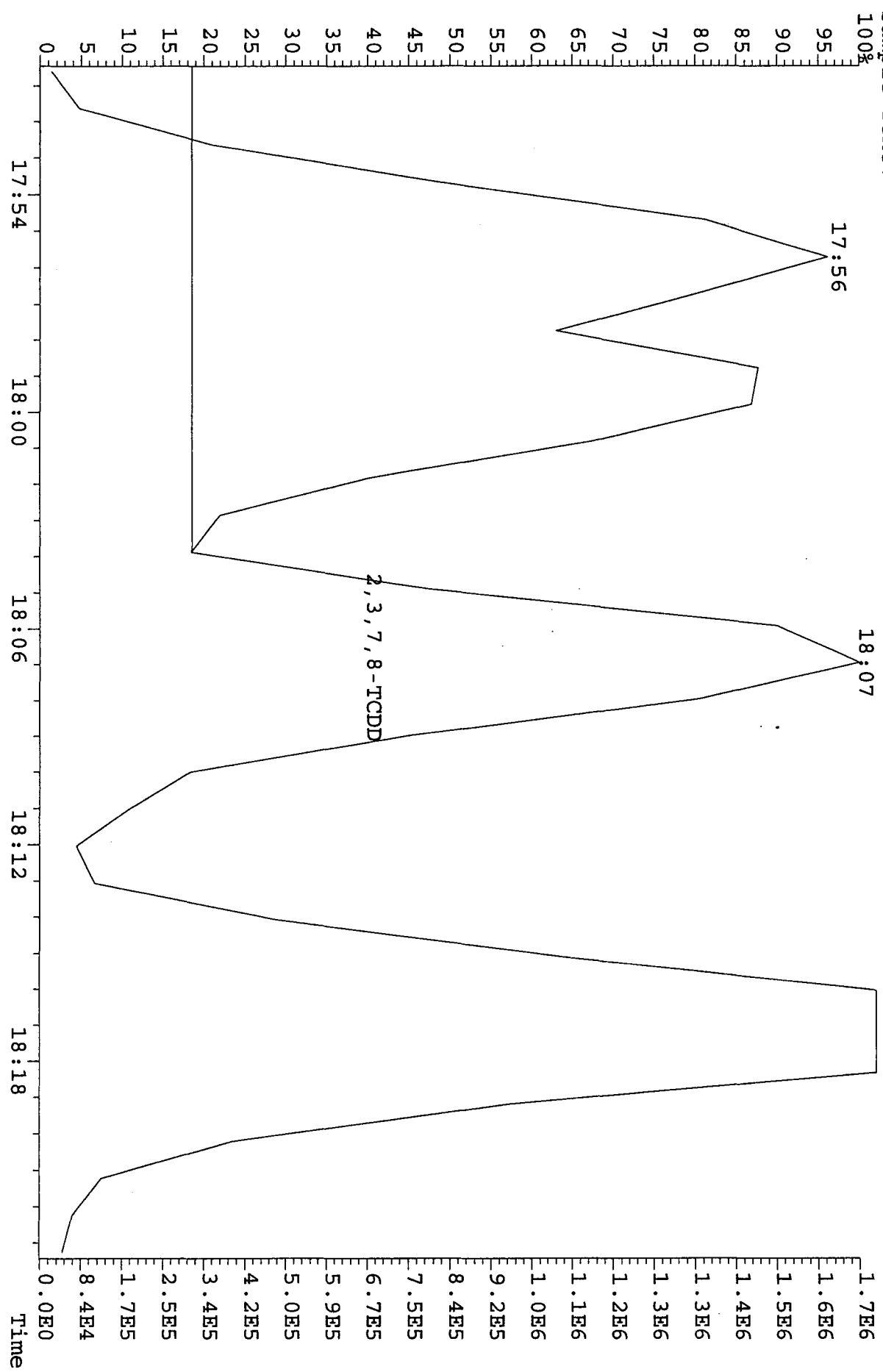
SIRLM Examination: 3-NOV-2010:19:49 File:02NO10A1D5
Experiment:DIOXIN Function:6



SIRLM Examination: 3-NOV-2010:19:49 File:02NO10A1D5
Experiment:DIOXIN Function:7



File: 02N010A1D5 #1-381 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 321.8936 S:28 Exp: DIOXINRES
 Sample Text: :



Run: 02NO10A1D5 Analyte: TO9

Cal: TO91029101D5

ST1029A : CS3 10DXN505
ST1029D : CS5 10DXN507

ST1029B : CS2 10DXN504
ST1029E : CS4 10DXN506

ST1029C : CS1 10DXN503

290C101D5 290C101D5 290C101D5 290C101D5 290C101D5 290C101D5

13C-1,2,3,4-TCDD

Mean S. D. %RSD

S3 RRF1

S4 RRF2

S5 RRF3

S6 RRF4

S7 RRF5

13C-2,3,7,8-TCDF
2,3,7,8-TCDF
Total TCDF

1.574 0.068 4.30 %
0.877 0.121 13.8 %
0.877 0.121 13.8 %

1.65 0.82 0.82

1.50 0.77 0.77

1.64 0.78 0.78

1.53 1.02 1.02

1.56 0.99 0.99

13C-2,3,7,8-TCDD
2,3,7,8-TCDD
Total TCDD

0.989 0.034 3.44 %
0.940 0.089 9.47 %
0.940 0.089 9.47 %

1.01 0.87 0.87

1.00 0.89 0.89

1.03 0.87 0.87

0.97 1.05 1.05

0.94 1.02 1.02

37C1-2,3,7,8-TCDD

1.177 0.190 16.1 %

1.17

0.97

1.01

1.38

1.35

13C-1,2,3,7,8-PeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
Total F2 PeCDF
Total F1 PeCDF

1.154 0.054 4.64 %
1.029 0.142 13.8 %
0.947 0.113 11.9 %
0.988 0.127 12.8 %
0.988 0.127 12.8 %

1.13 1.03 0.92 0.97 0.97

1.07 0.94 0.88 0.91 0.91

1.19 0.85 0.81 0.83 0.83

1.21 1.17 1.06 1.11 1.11

1.17 1.16 1.07 1.12 1.12

13C-1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDD
Total PeCDD

0.667 0.030 4.55 %
0.961 0.138 14.4 %
0.961 0.138 14.4 %

0.64 0.91 0.91

0.63 0.84 0.84

0.70 0.84 0.84

0.70 1.12 1.12

0.67 1.10 1.10

13C-1,2,3,4,7,8-HxCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
Total HxCDF

1.148 0.056 4.84 %
1.219 0.153 12.6 %
1.407 0.122 8.69 %
1.232 0.129 10.5 %
1.084 0.125 11.6 %
1.236 0.126 10.2 %

1.24 1.21 1.41 1.23 1.02 1.22

1.12 1.16 1.44 1.21 1.00 1.20

1.12 1.00 1.22 1.04 0.97 1.05

1.16 1.36 1.41 1.29 1.17 1.31

1.11 1.36 1.56 1.39 1.26 1.39

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

0.959 0.044 4.60 %
0.887 0.127 14.3 %

1.01 0.88

0.99 0.77

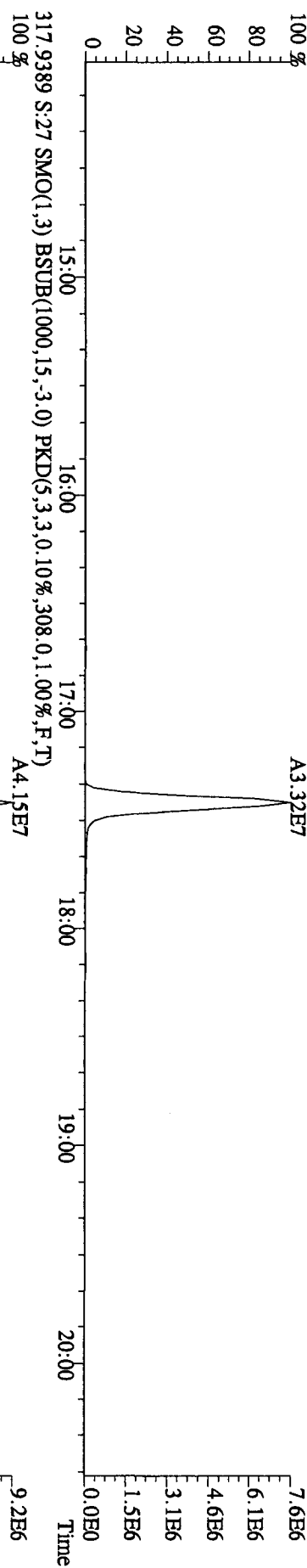
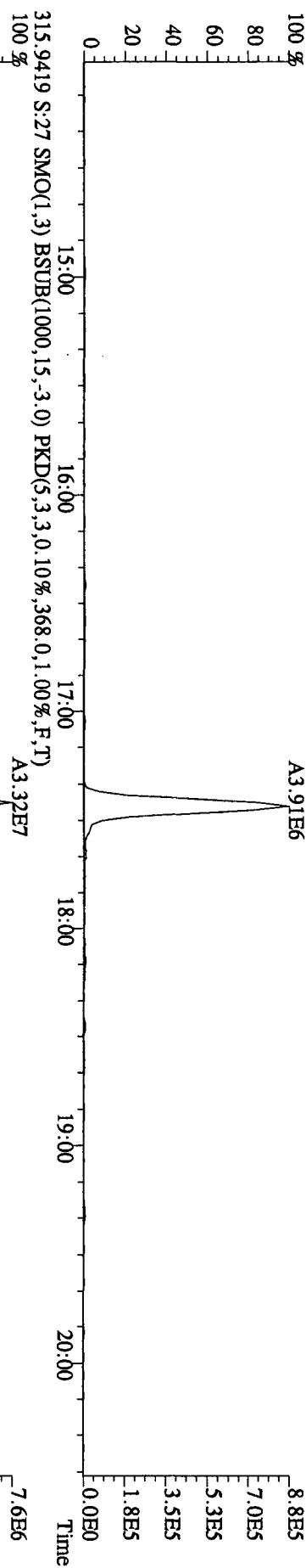
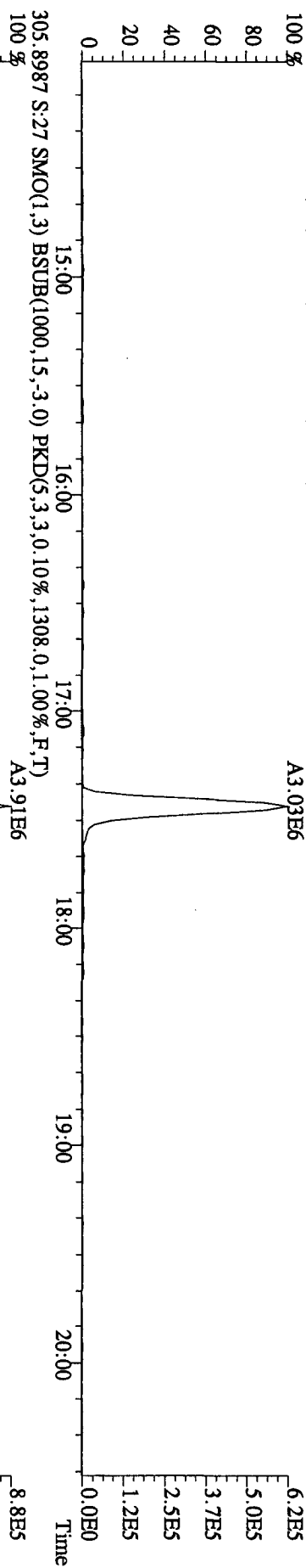
0.96 0.75

0.92 1.00

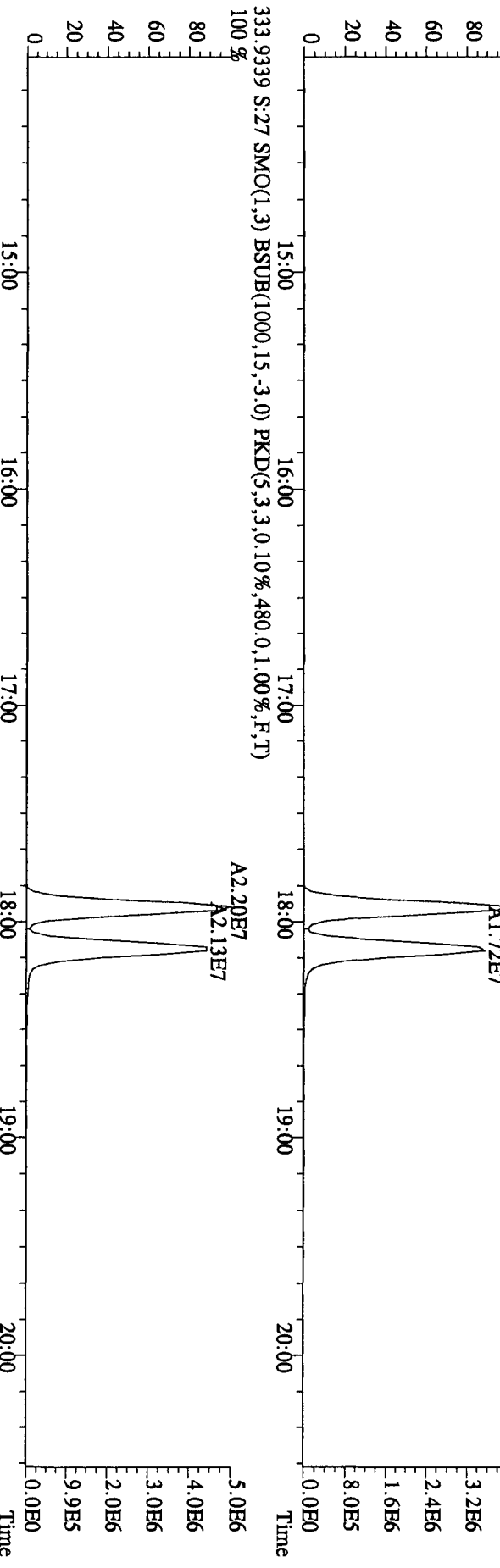
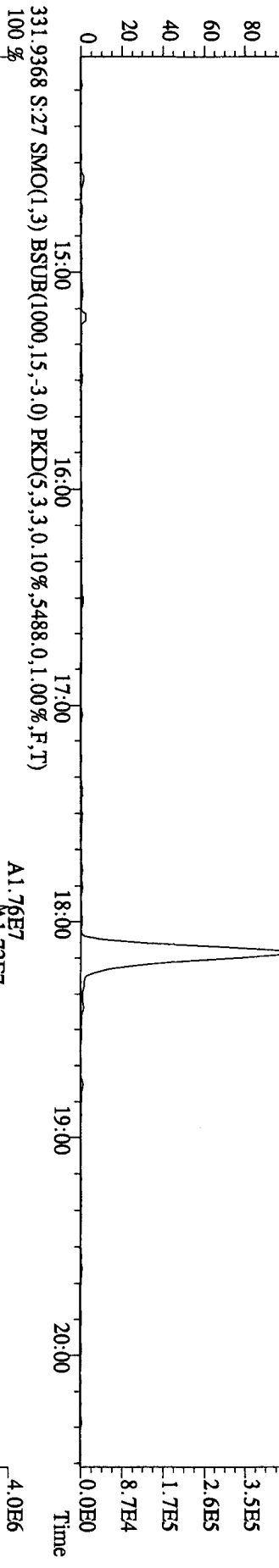
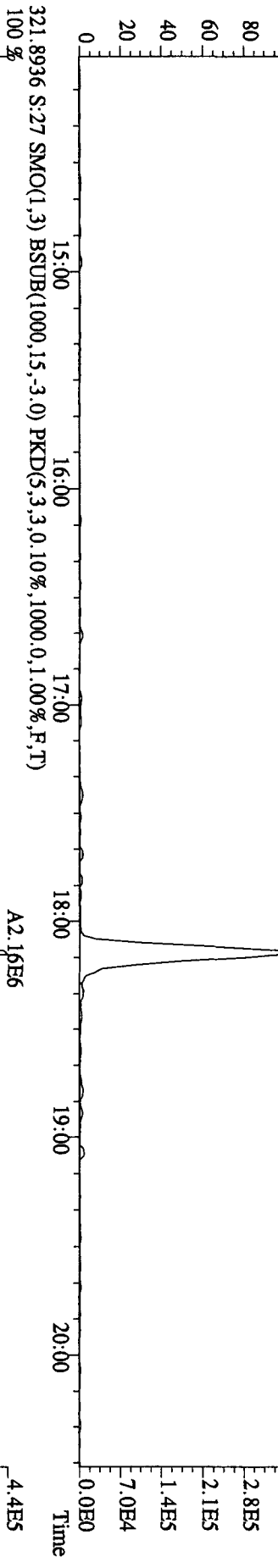
0.91 1.03

1,2,3,6,7,8-HxCDD	1.049	0.142	13.5 %	1.07	0.97	0.85	1.17	1.18
1,2,3,7,8,9-HxCDD	1.005	0.137	13.6 %	0.98	0.92	0.83	1.13	1.16
Total HxCDD	0.980	0.134	13.7 %	0.98	0.89	0.81	1.10	1.12
13C-1,2,3,4,6,7,8-HpCDD	0.984	0.057	5.82 %	1.04	0.99	1.01	0.89	0.99
1,2,3,4,6,7,8-HpCDF	1.331	0.165	12.4 %	1.35	1.23	1.11	1.49	1.48
1,2,3,4,7,8,9-HpCDF	1.119	0.173	15.5 %	1.11	0.97	0.92	1.28	1.31
Total HpCDD	1.225	0.168	13.7 %	1.23	1.10	1.02	1.38	1.40
13C-1,2,3,4,6,7,8-HpCDD	0.824	0.061	7.37 %	0.86	0.82	0.89	0.73	0.82
1,2,3,4,6,7,8-HpCDD	1.048	0.139	13.3 %	1.04	0.97	0.87	1.20	1.17
Total HpCDD	1.048	0.139	13.3 %	1.04	0.97	0.87	1.20	1.17
13C-OCDD	0.542	0.048	8.84 %	0.58	0.50	0.58	0.48	0.56
OCDF	1.580	0.252	15.9 %	1.60	1.42	1.24	1.82	1.82
OCDD	1.133	0.159	14.1 %	1.12	1.04	0.92	1.29	1.29

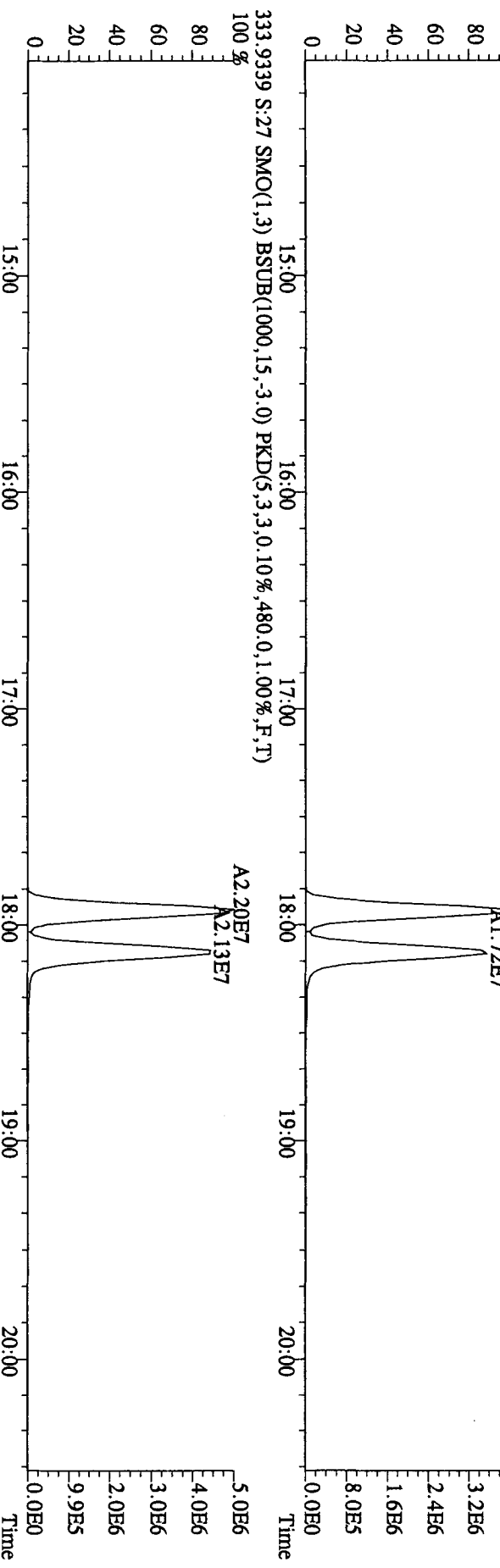
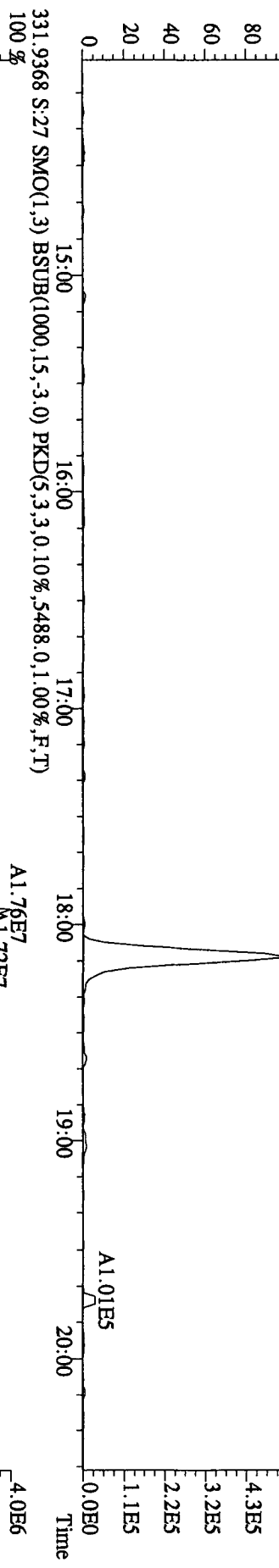
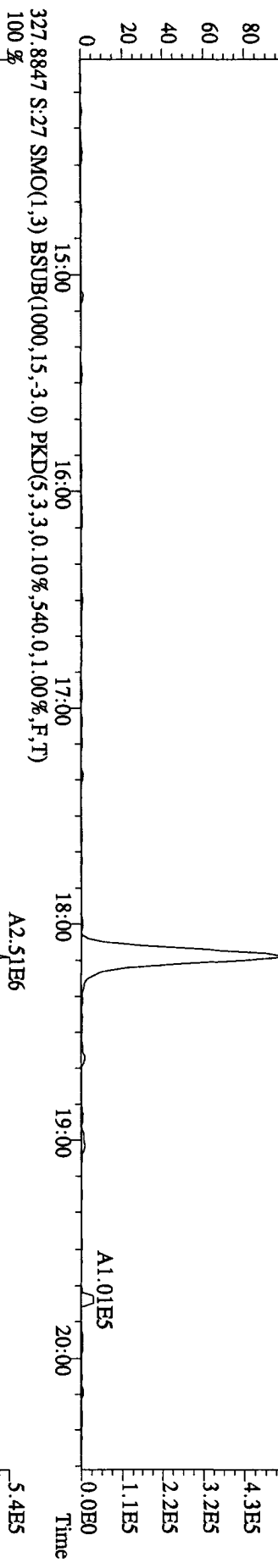
File: 02NO10A1D5 #1-383 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXNRES
303.9016 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1308,0,1.00%,F,T)
100% A3.03E6

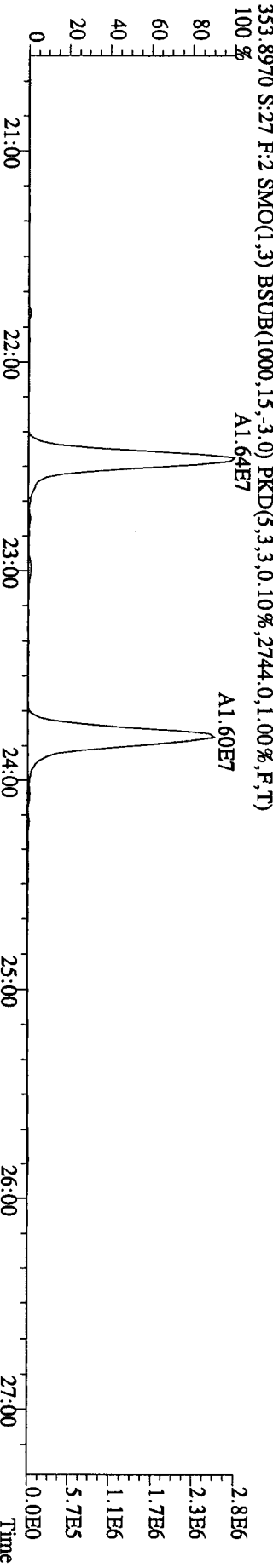
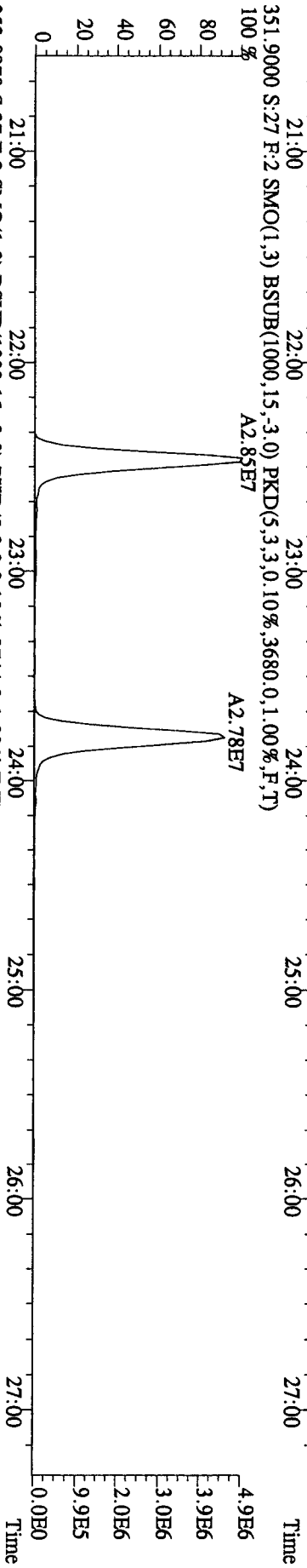
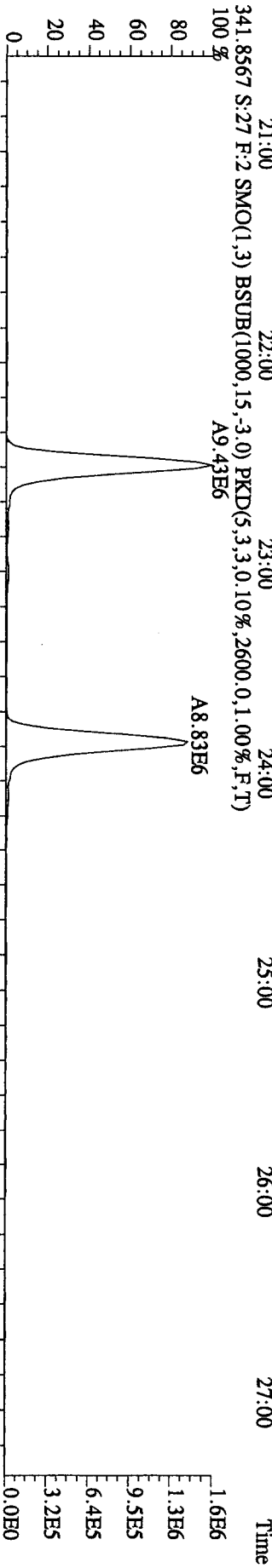
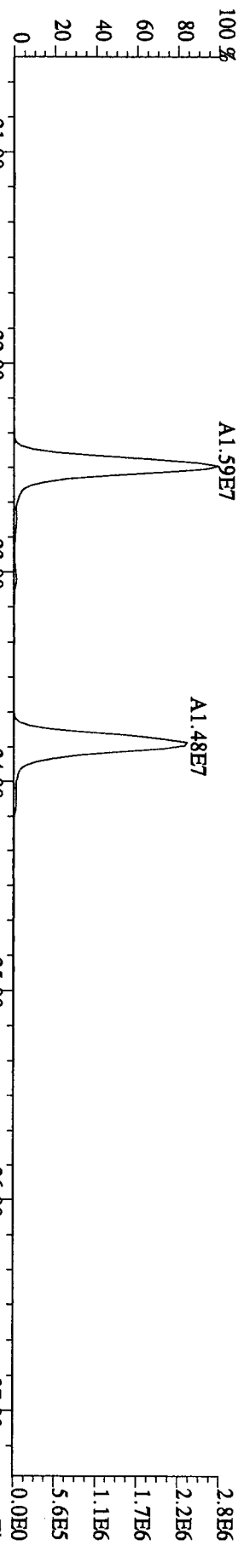


File: 02N010A1D5 #1-383 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES
 319.8965 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.888,0,1,00%,F,T)
 100 %

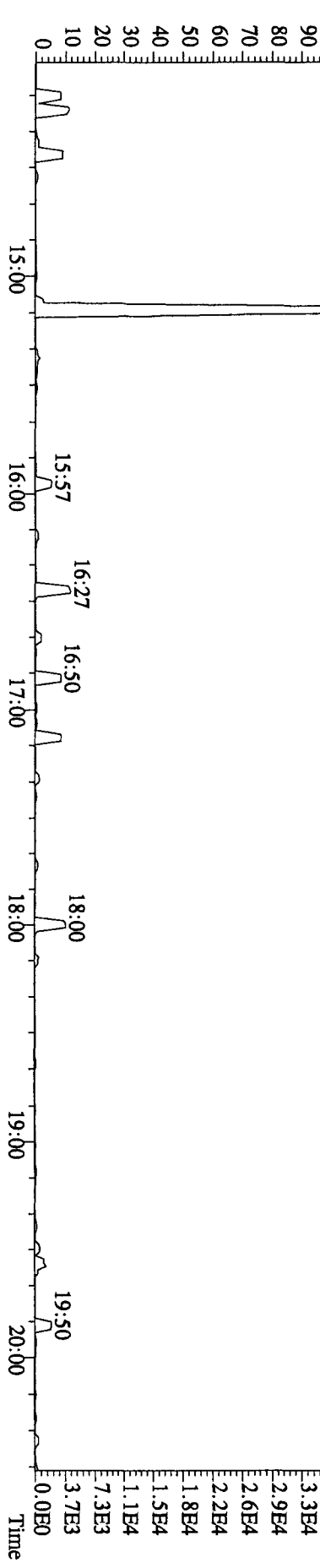
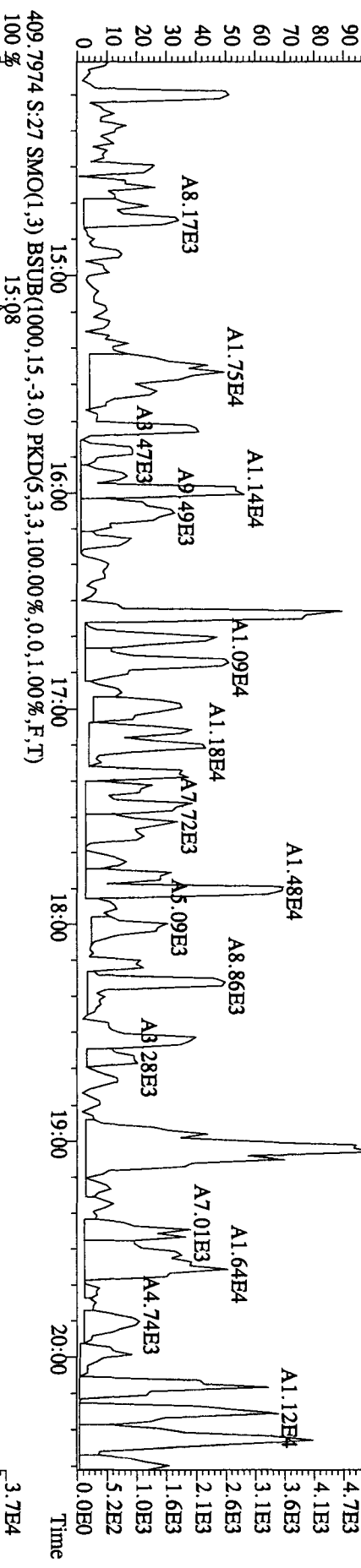
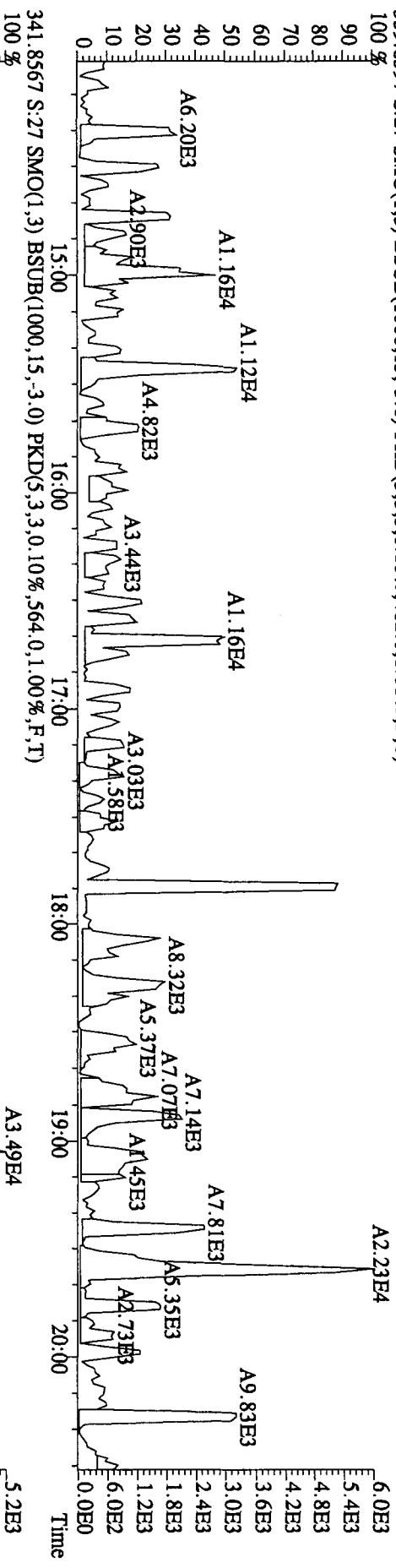


File: 02NO10A1ID5 #1-383 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES
 327.8847 S:27 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,540,0,1.00%,F,T)
 100%

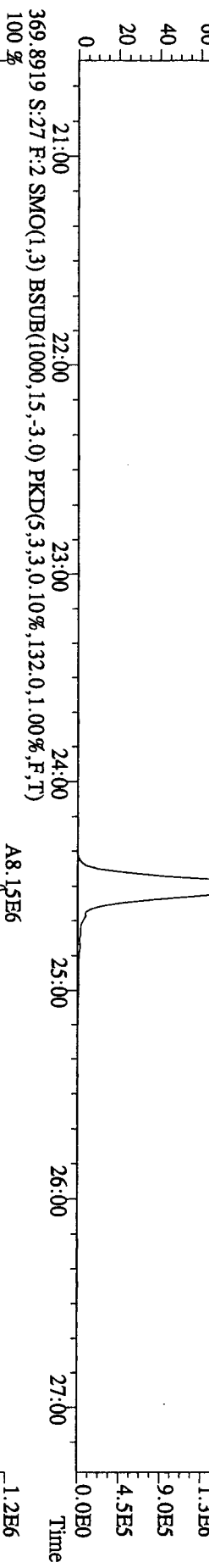
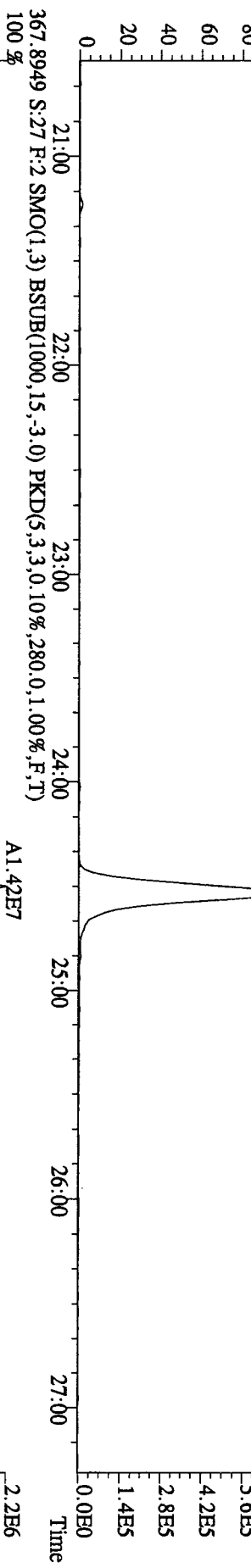
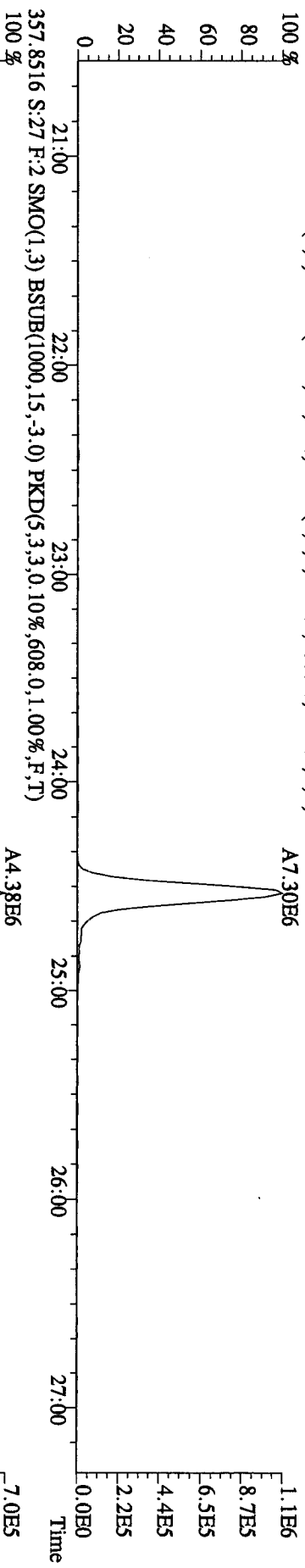




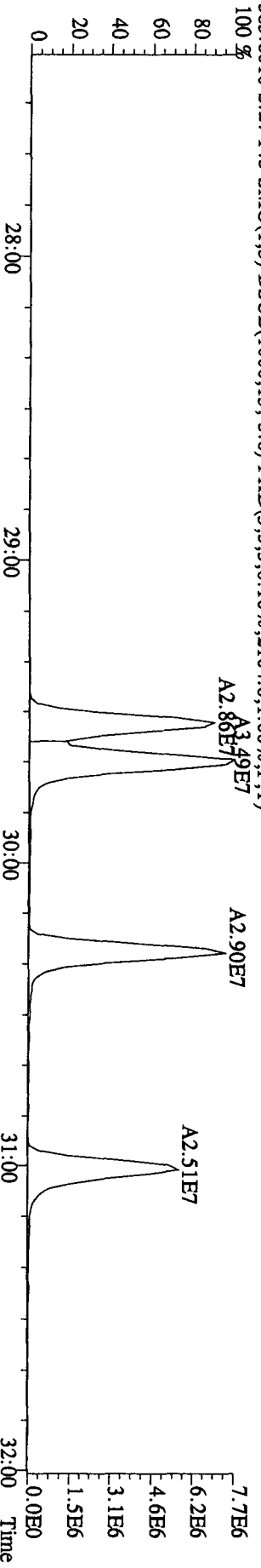
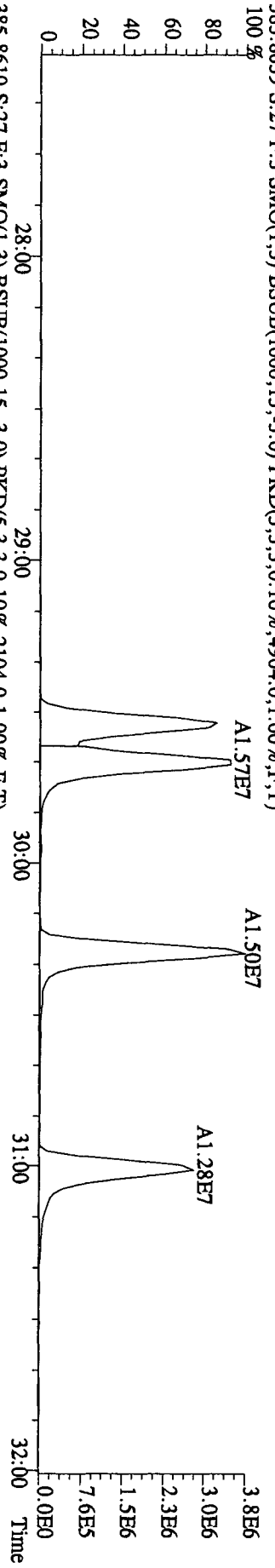
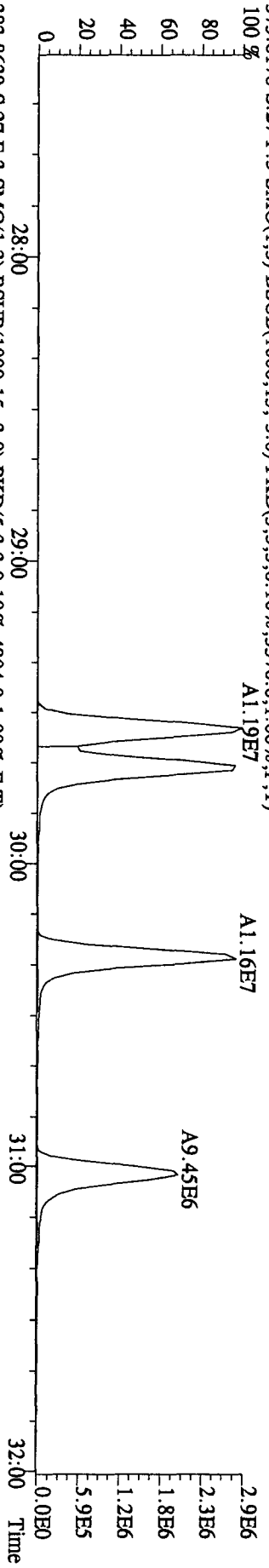
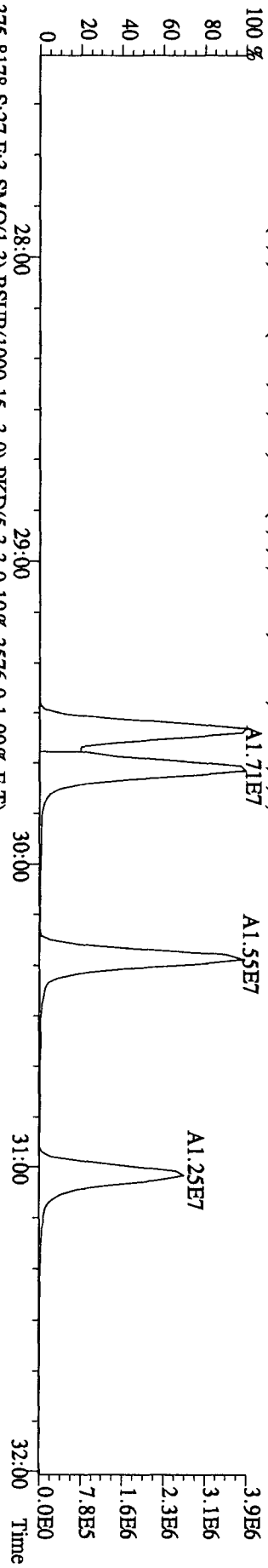
File:02NO10A1D5 #1-383 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text:ST1102D :CS3 10DXN505 Exp.:DIOXINRES
 339 8597 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,412.0,1.00%,F,T)



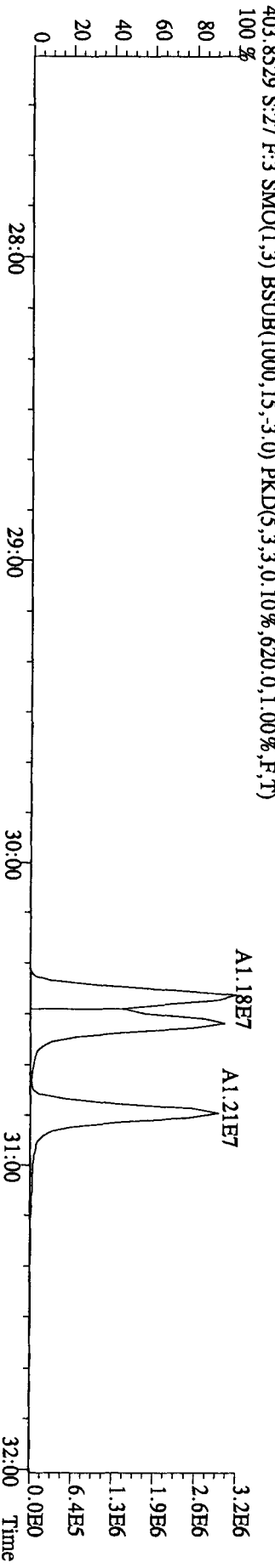
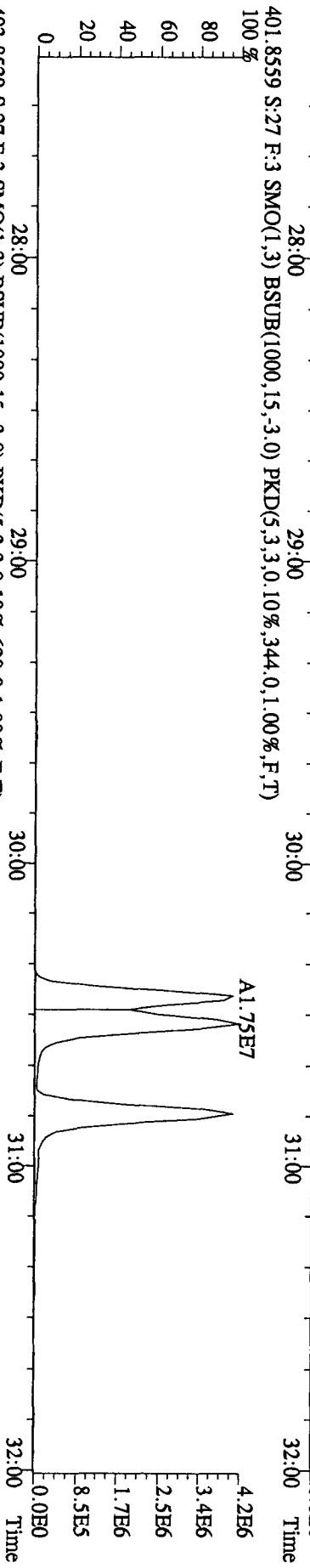
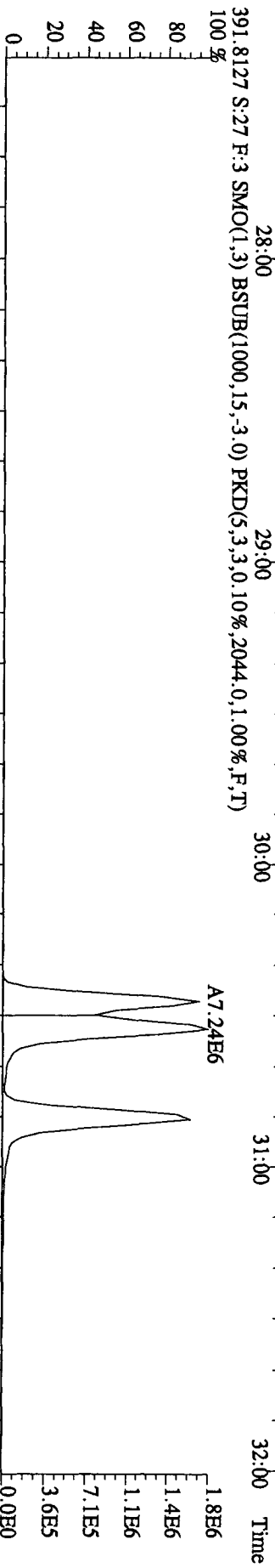
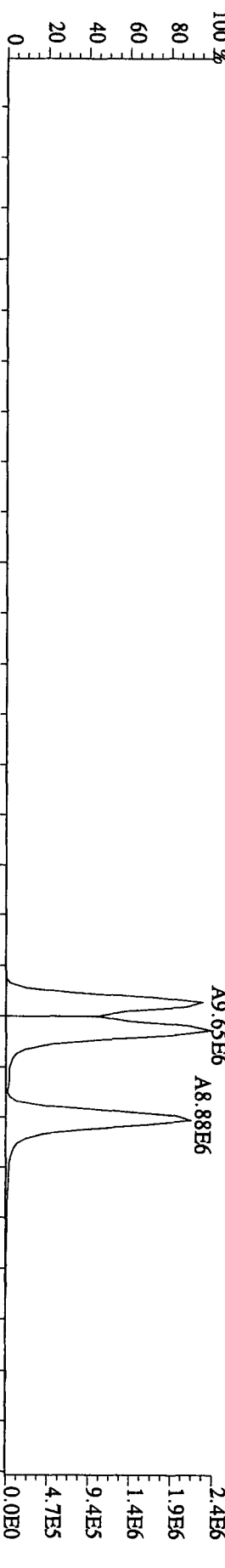
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text:ST1102D :CS3 10DXN505 Exp:DIOXINRES
 355.8546 S:27 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1008,0,1,00%,F,T)
 100%



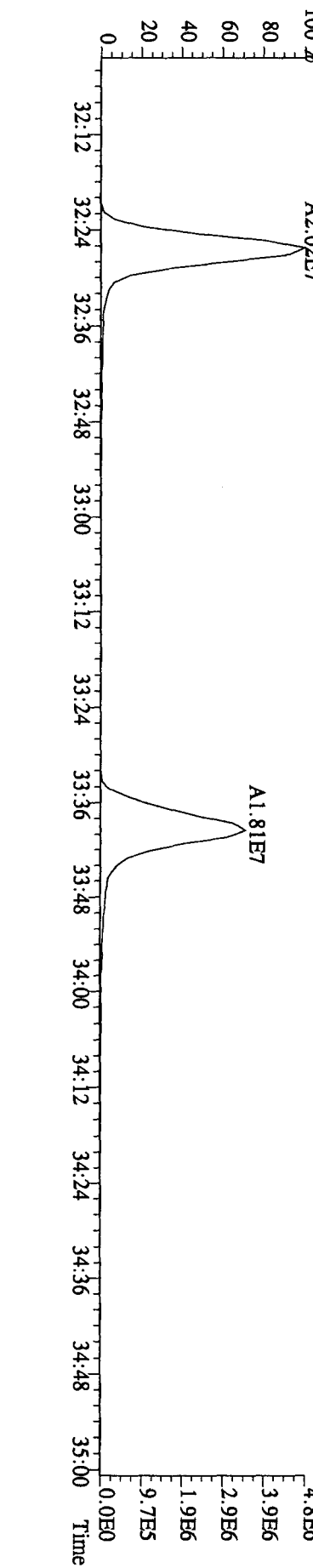
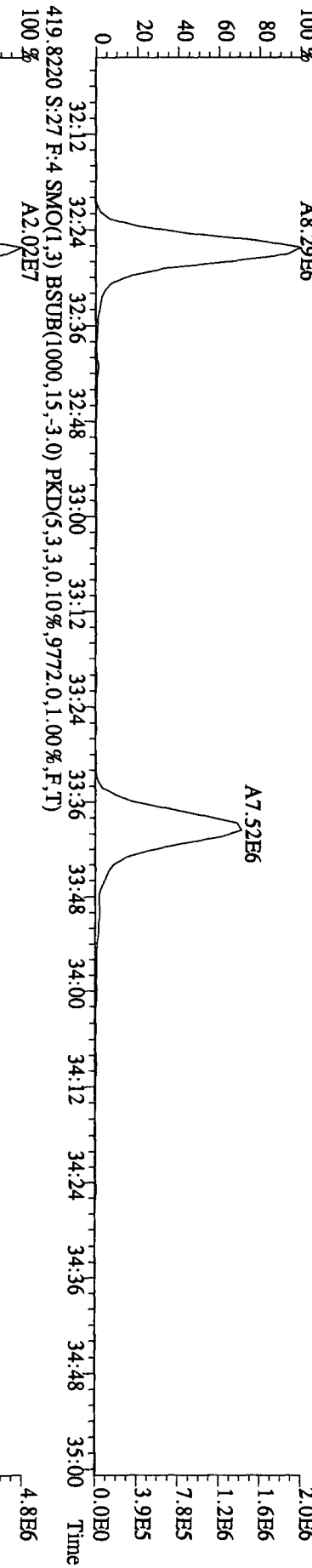
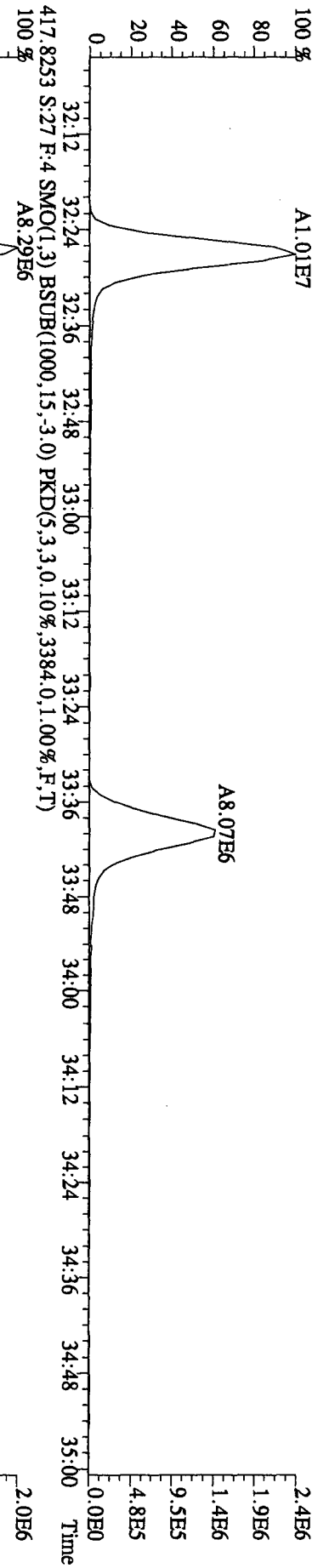
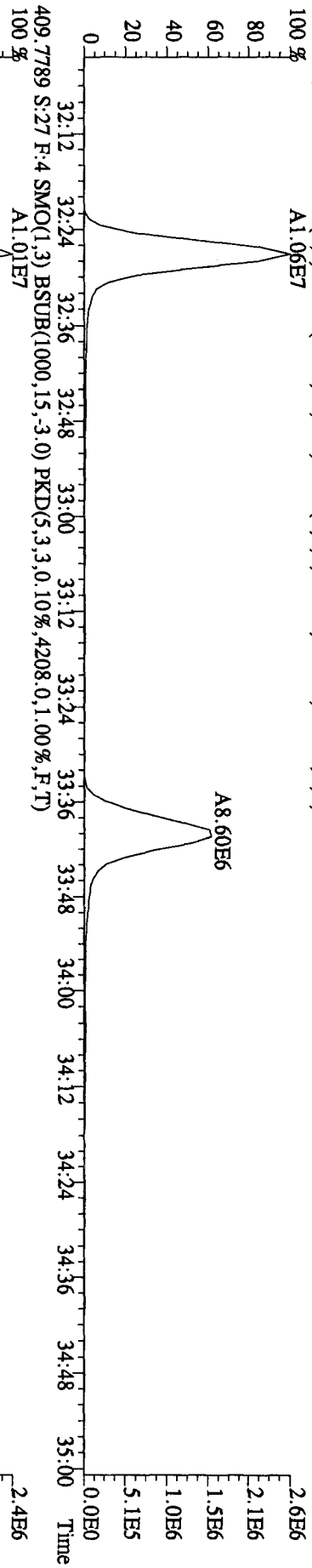
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES
 373.8208 S:27 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3280,0,1,00%,F,T)
 100%



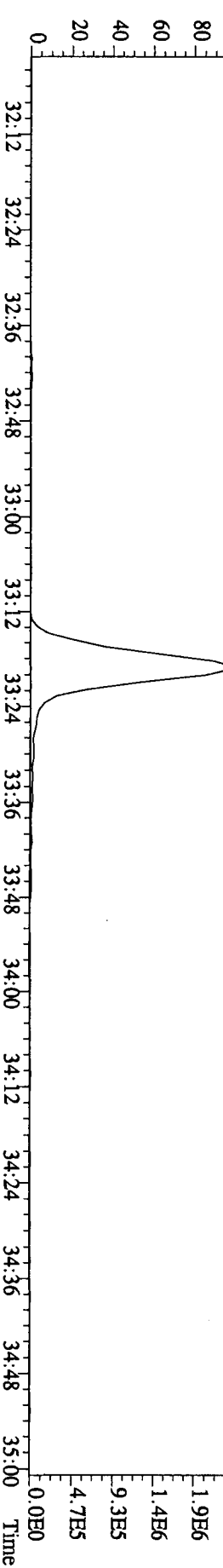
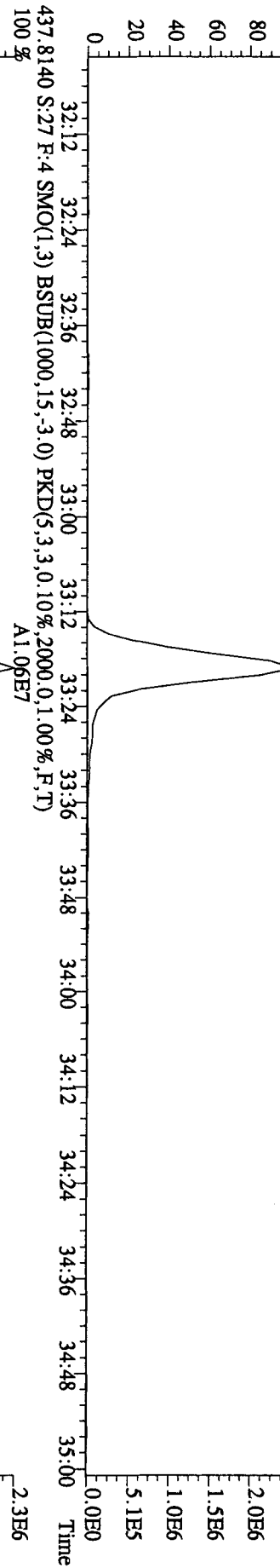
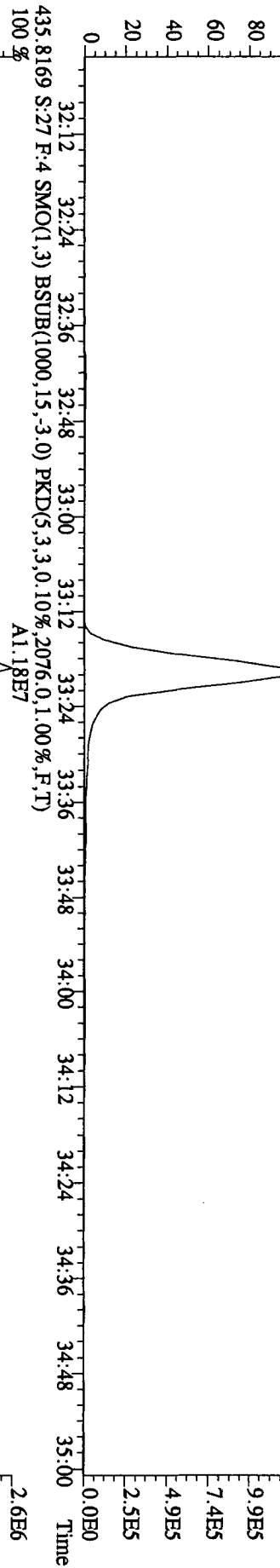
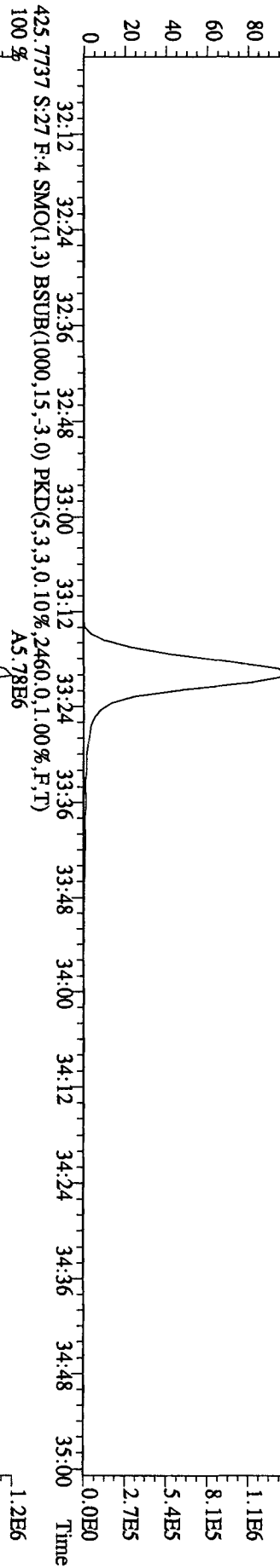
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CSS 10DDXN505 Exp: DIOXINRES
 389.8157 S:27 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1728,0,1,00%,F,T)



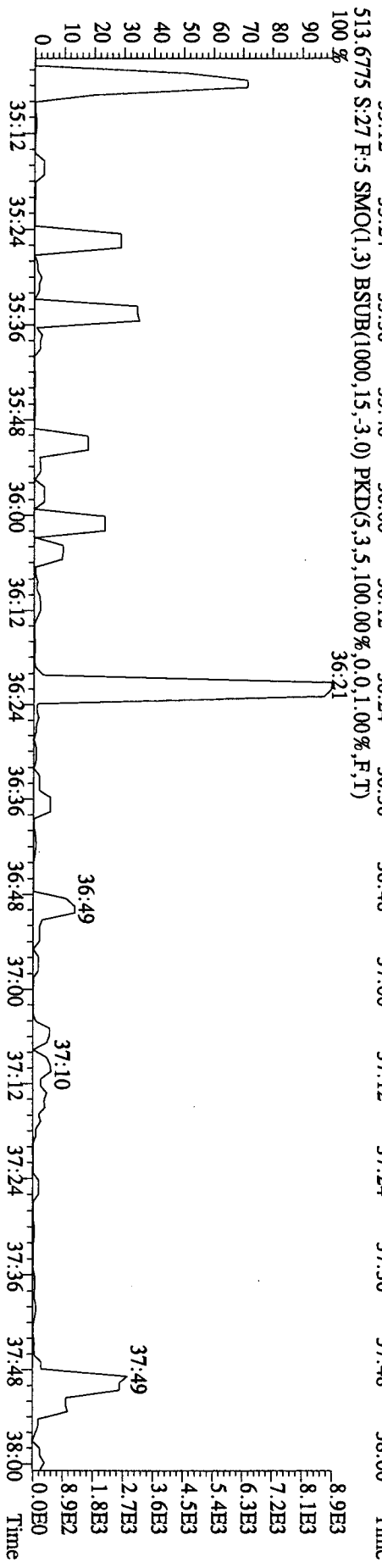
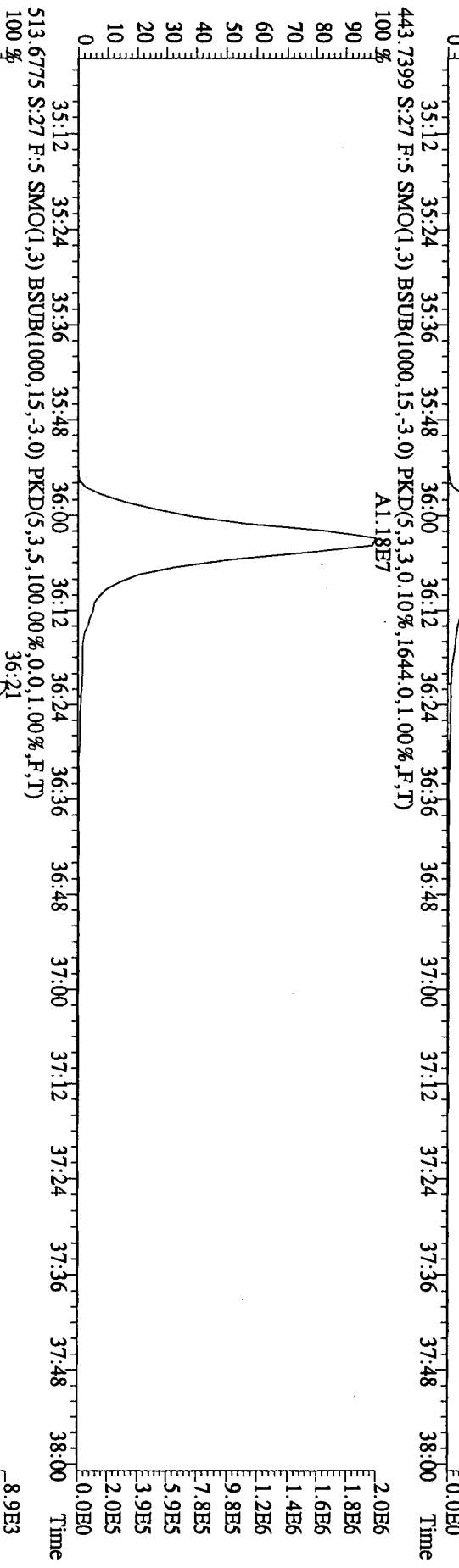
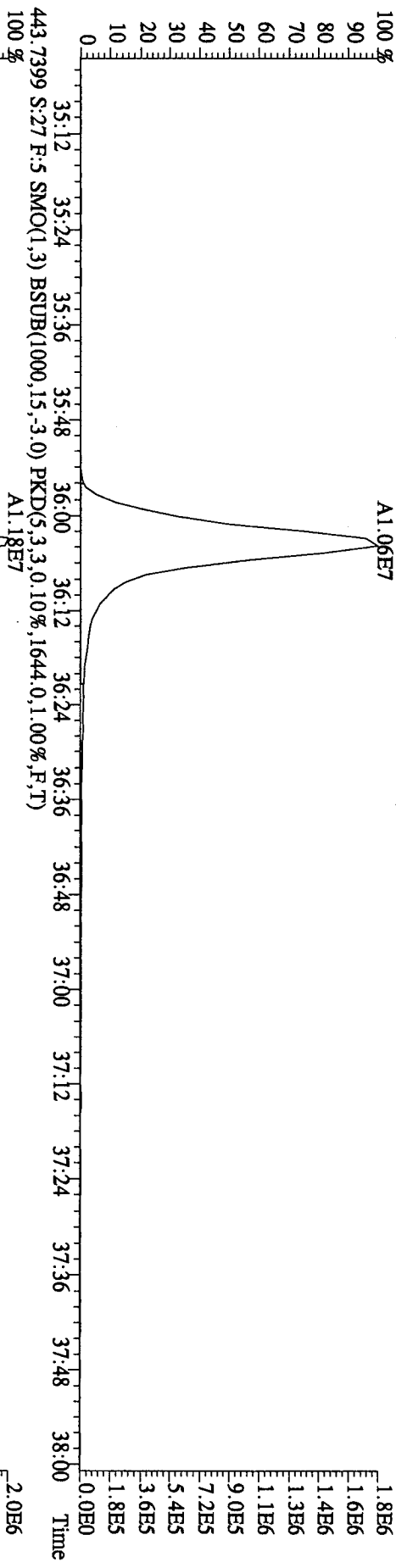
File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES
 407.7818 S:27 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4560.0,1.00%,F,T)
 100%



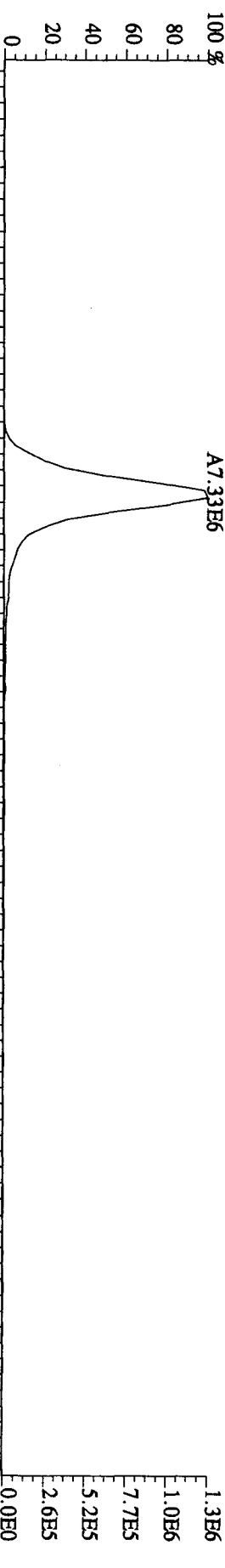
File: 02N010A1D5 #1-203 Acq: 3-NOV-2010 09:09:45 GC EI + Voltage SIR 70SE
 Sample#27 Text: ST1102D : CS3 10DXN505 Exp: DIOXINRES
 423.7766 S: 27 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,2192.0,1.00%,F,T)
 100%



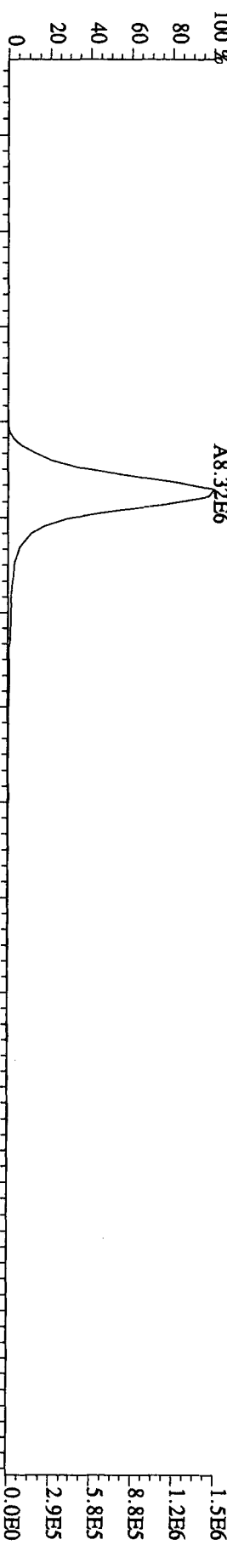
File: 02NNO10A1ID5 #1-196 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXNS05 Exp: DIOXINRES
 441.7428 S:27 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1884.0,1.00%,F,T)
 100% A1.06E7



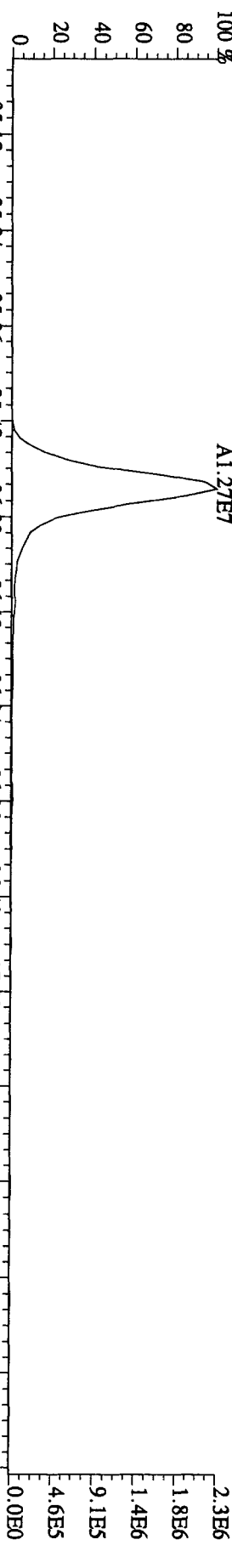
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text:ST1102D :CS3 10DXN505 Exp:DIOXINRES
 457.7377 S:27 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1204.0,1.00%,F,T)
 100 % A7.33E6



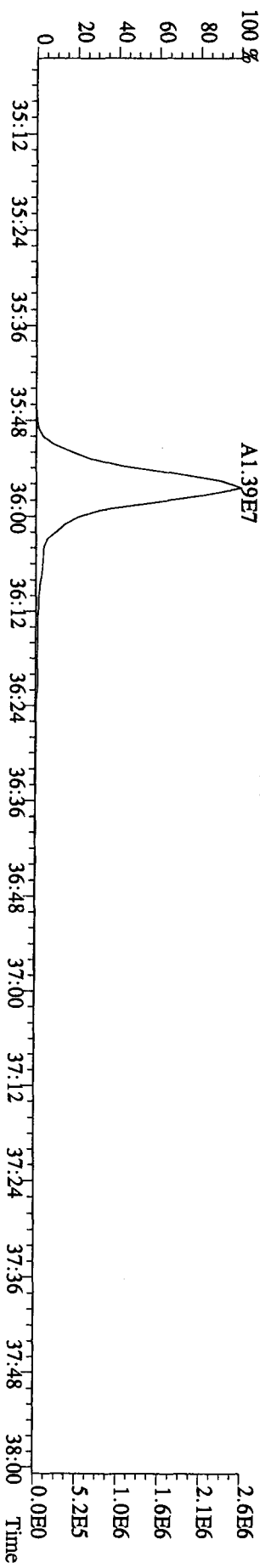
459.7348 S:27 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1100.0,1.00%,F,T)
 100 % A8.32E6

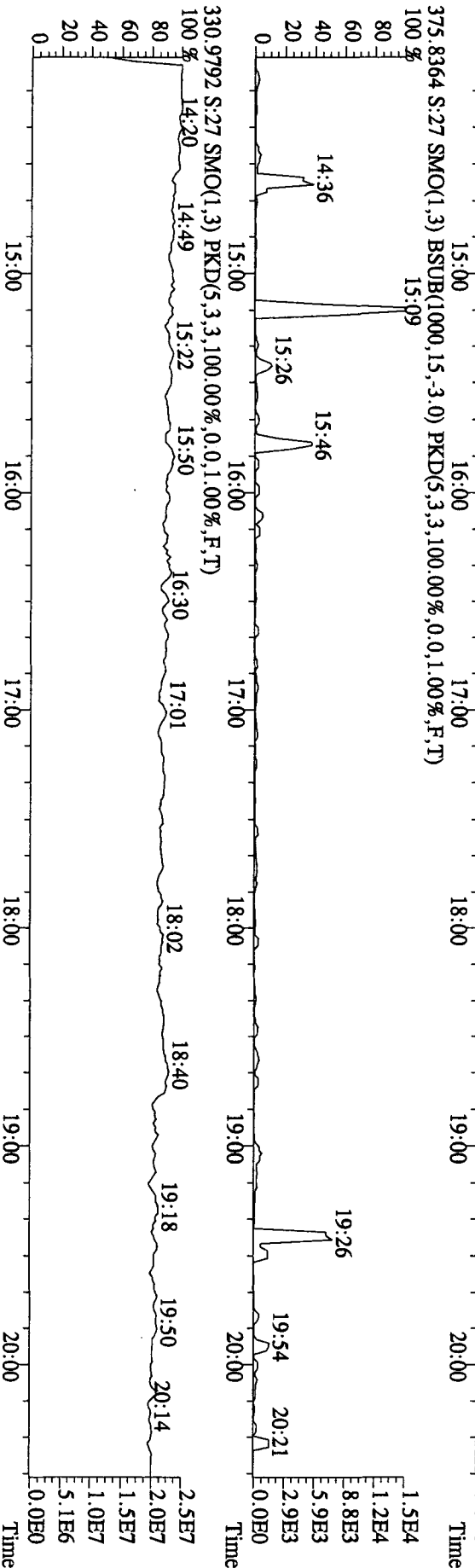
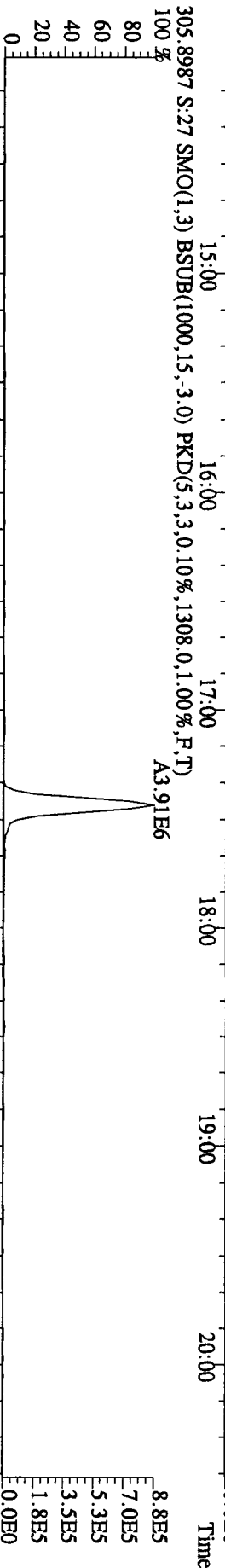
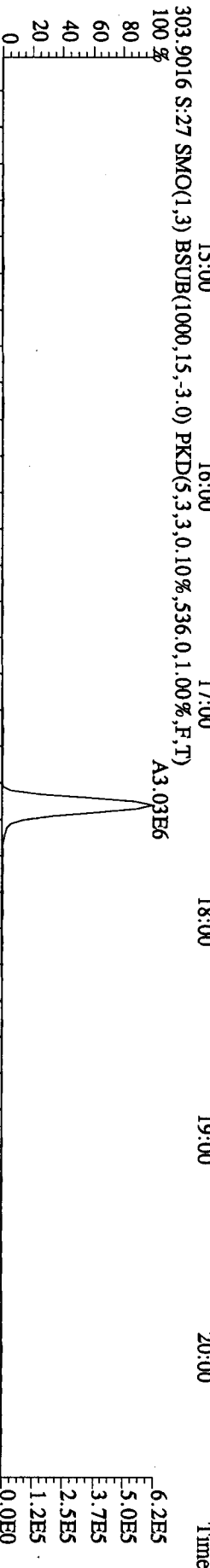
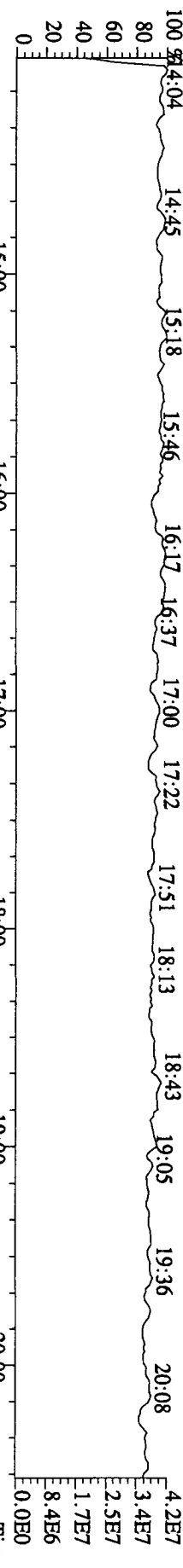


469.7779 S:27 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,844.0,1.00%,F,T)
 100 % A1.27E7



471.7750 S:27 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,812.0,1.00%,F,T)
 100 % A1.39E7



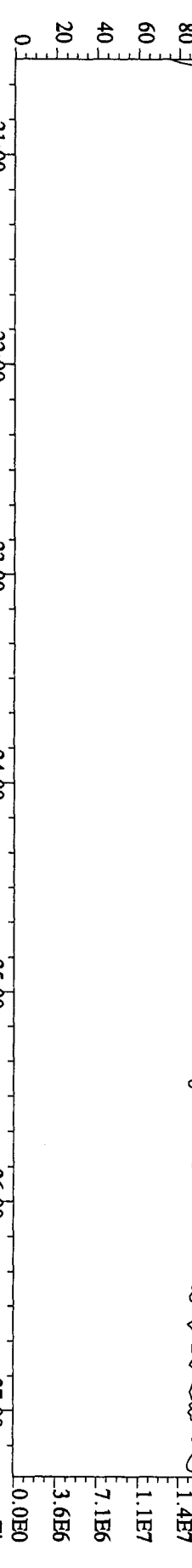


File: 02NO10A1D5 #1-422 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE

Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES

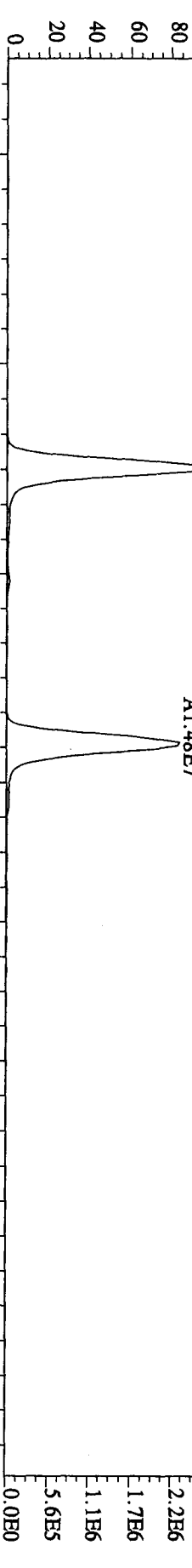
342.9792 S:27 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 21:06 21:41 22:04 22:32 23:04 23:44 24:06 24:37 25:08 25:30 26:17 26:39 27:06



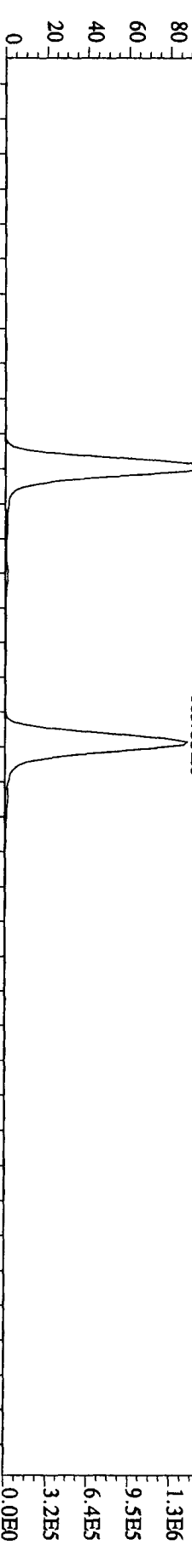
339.8597 S:27 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1288,0.1,0.00%,F,T)

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



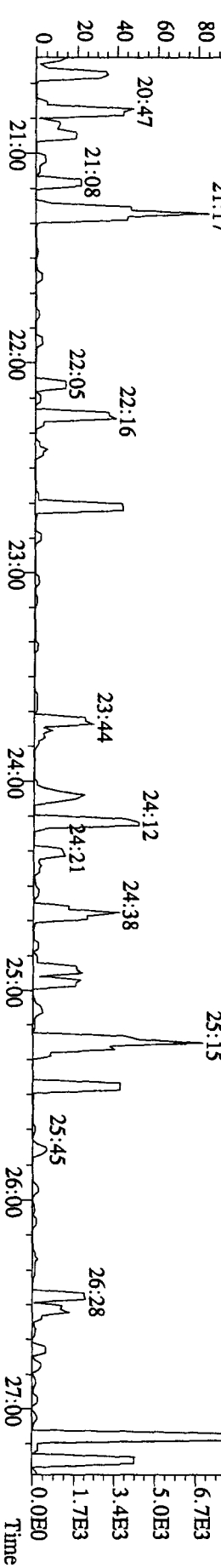
341.8567 S:27 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2600,0.1,0.00%,F,T)

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

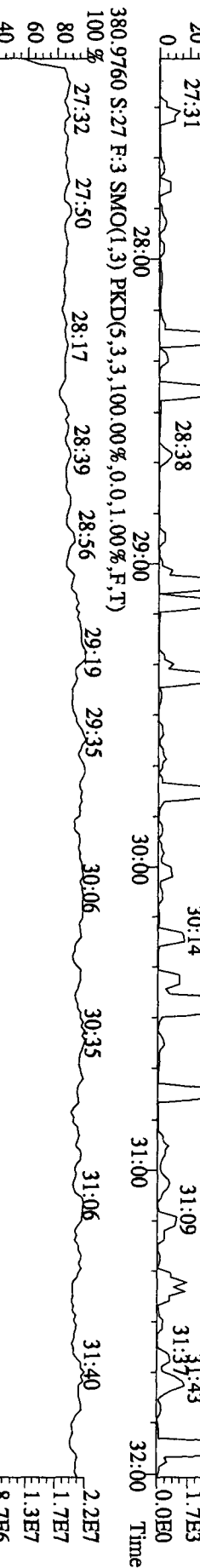
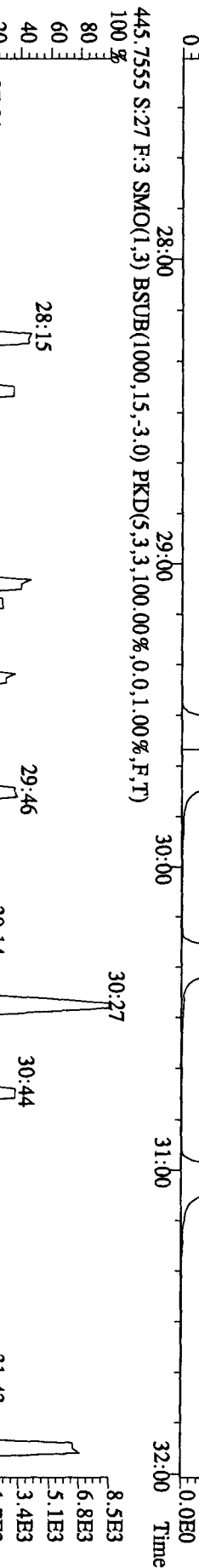
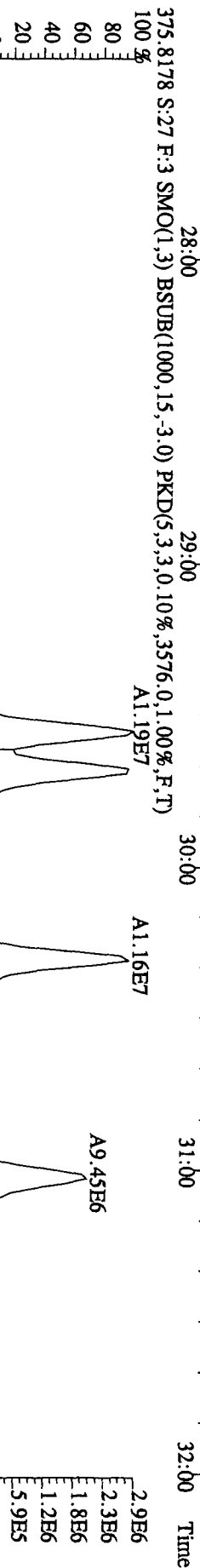
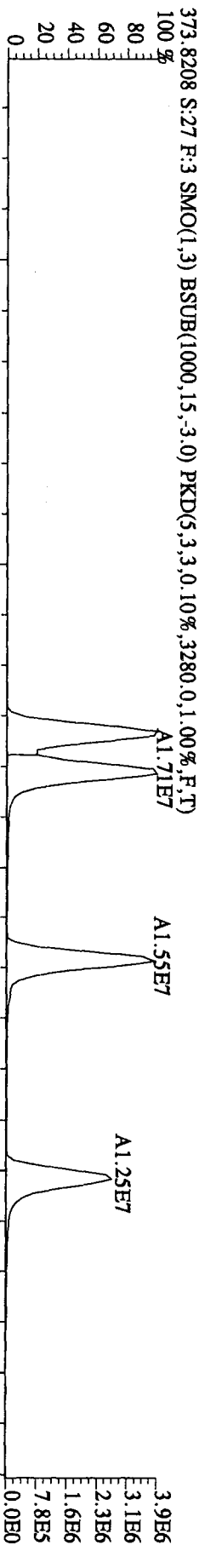
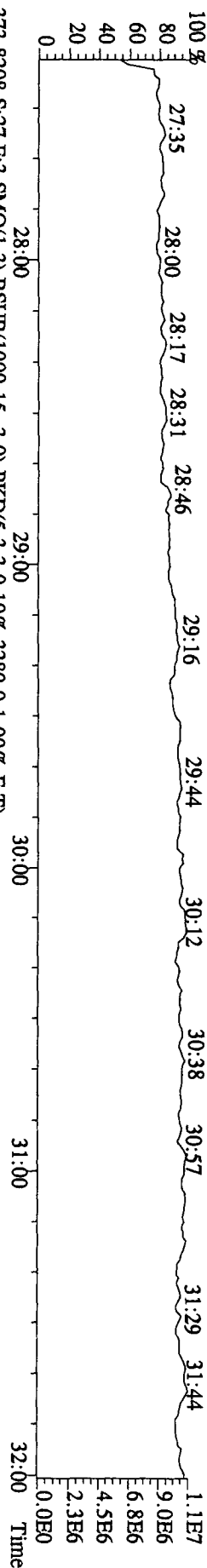


409.7974 S:27 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

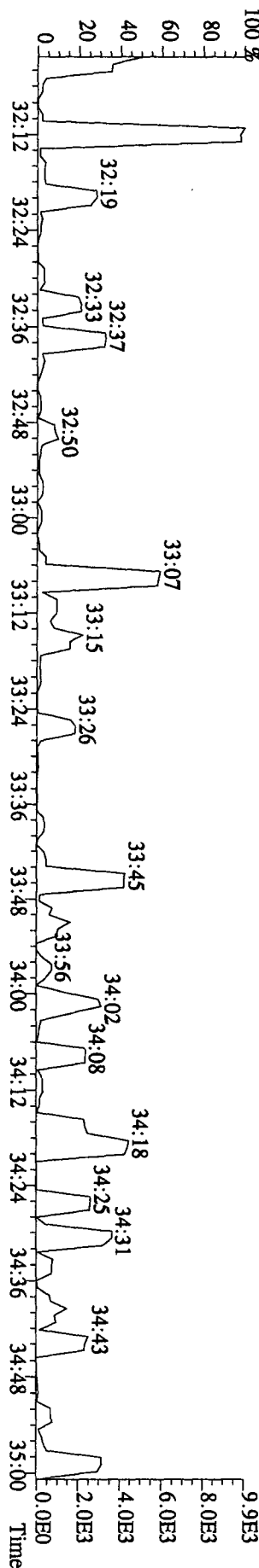
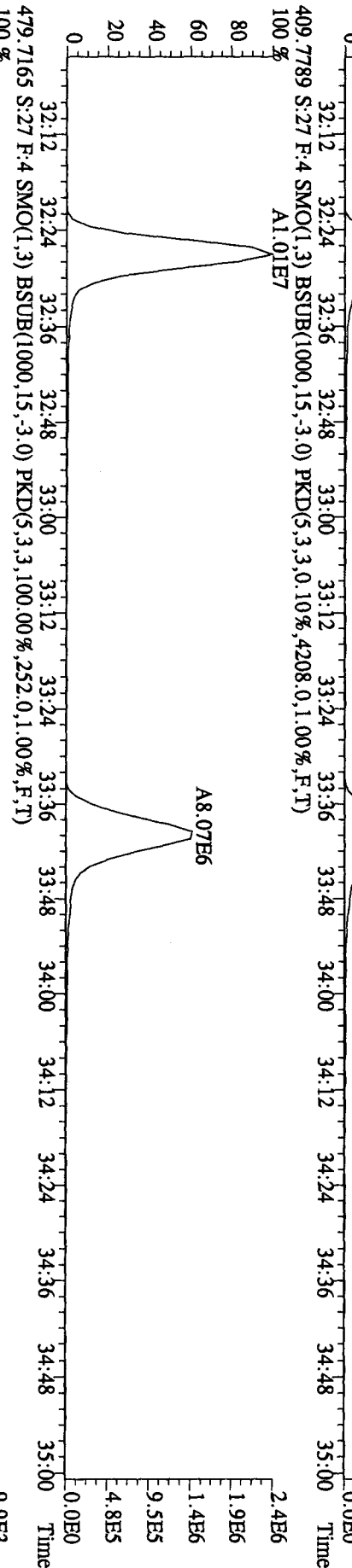
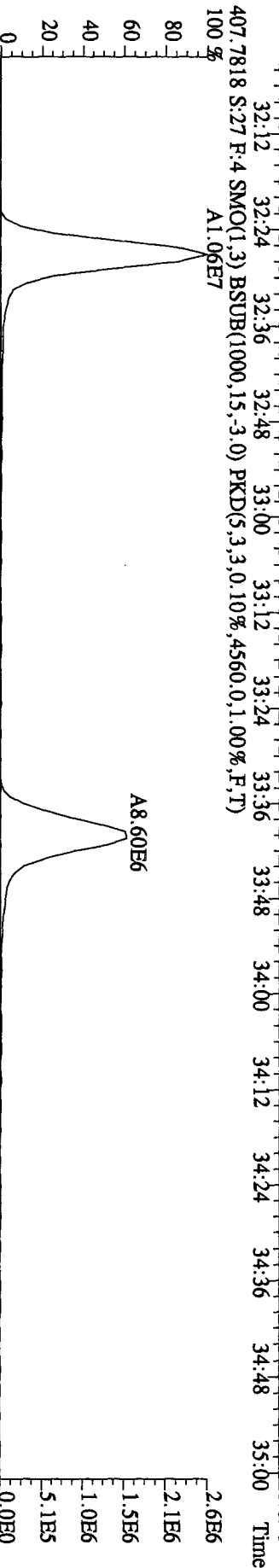
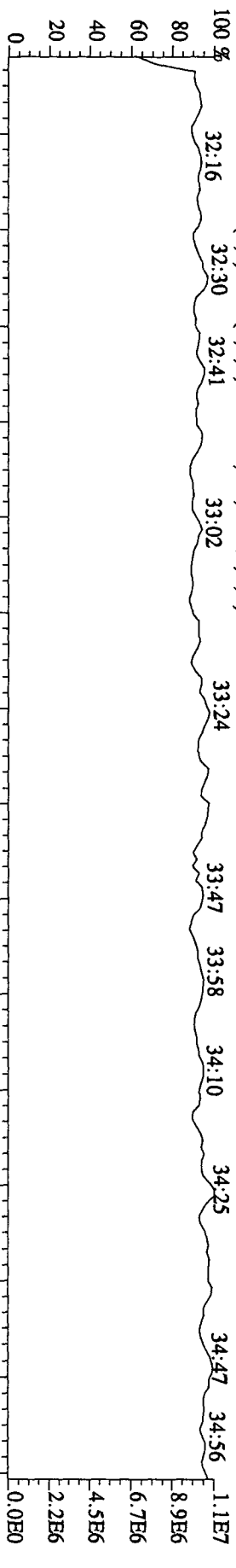
100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



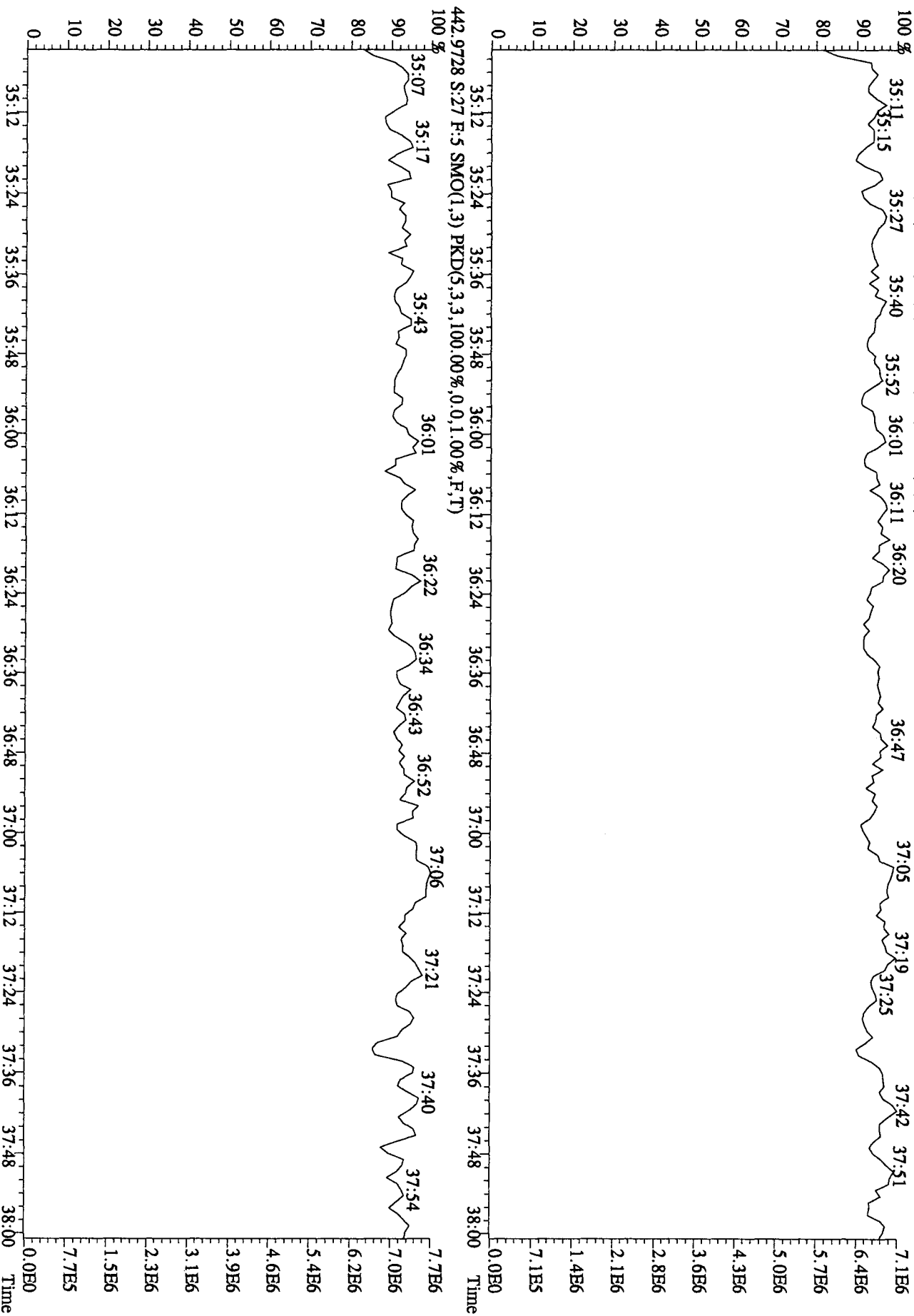
File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text:ST1102D :CS3 10DXNS05 Exp:DIOXINRES
 392.9760 S:27 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100%



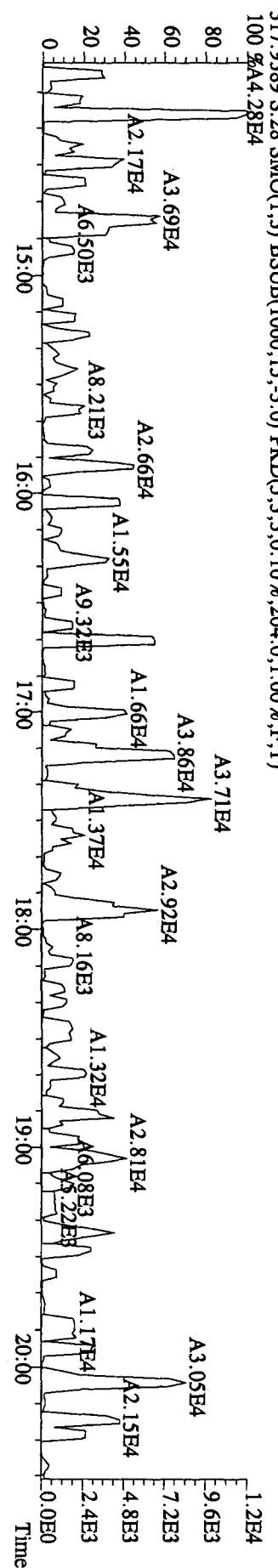
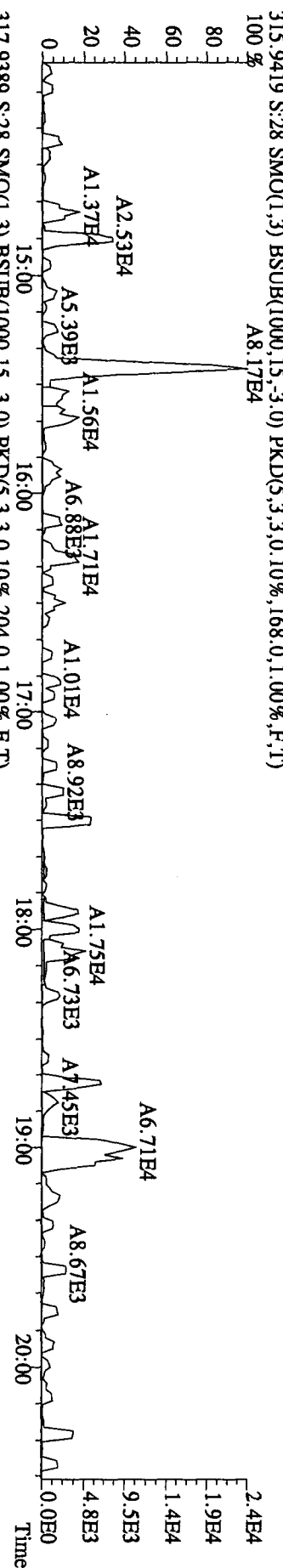
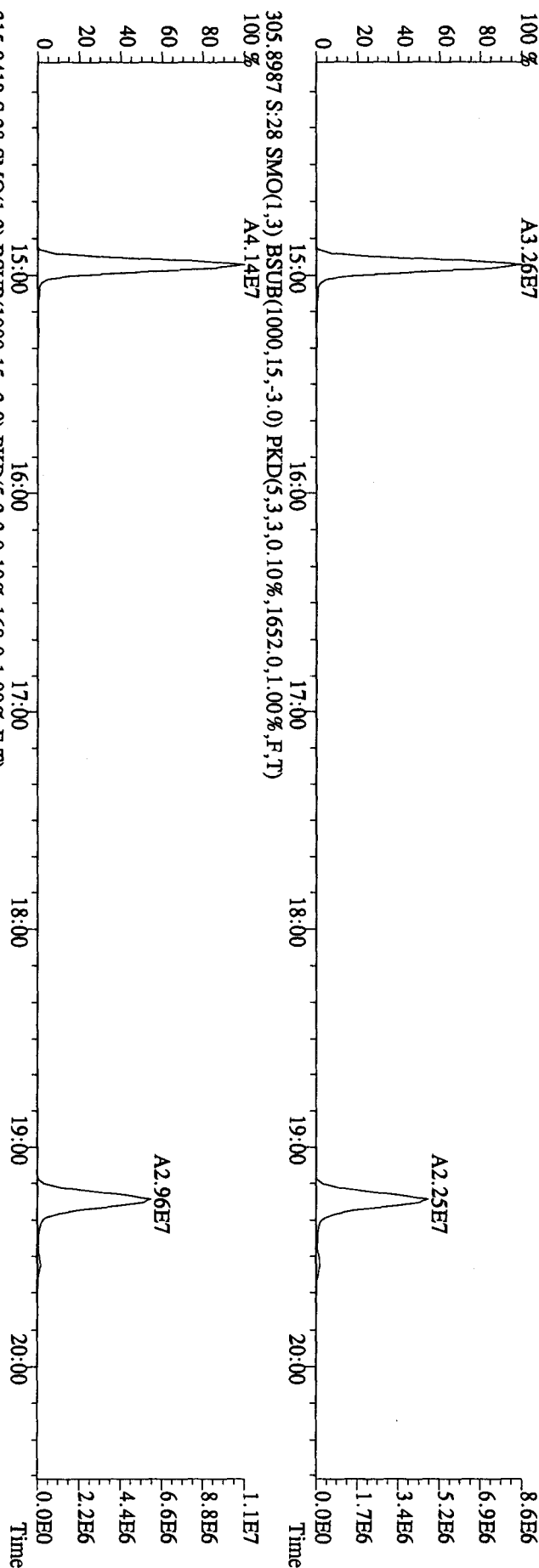
File:02N010A1D5 #1-203 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text:ST1102D :CS3 10DXN505 Exp:DIOXINRES



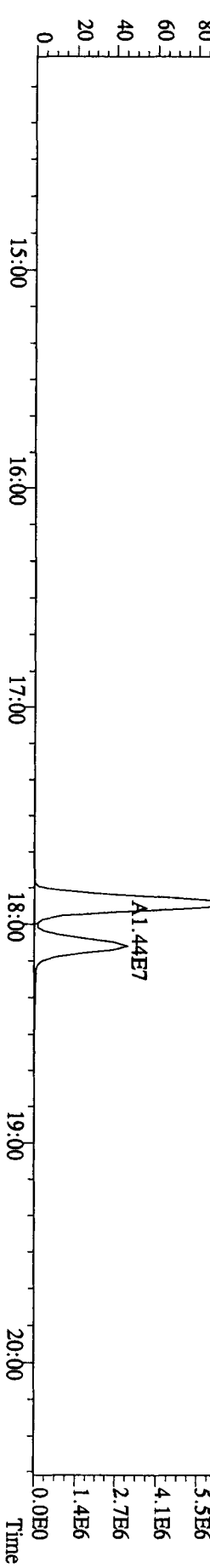
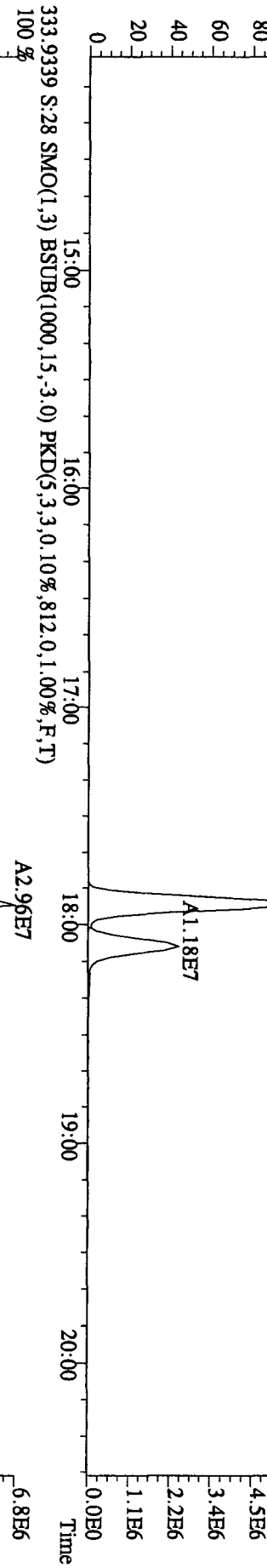
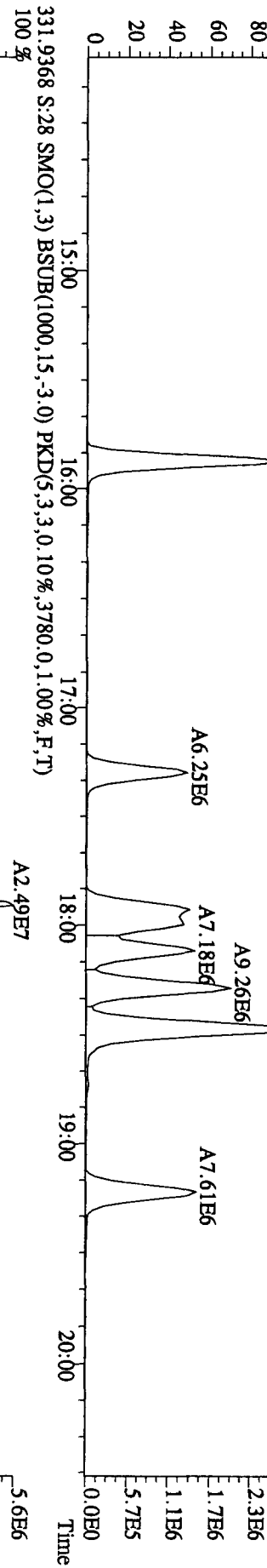
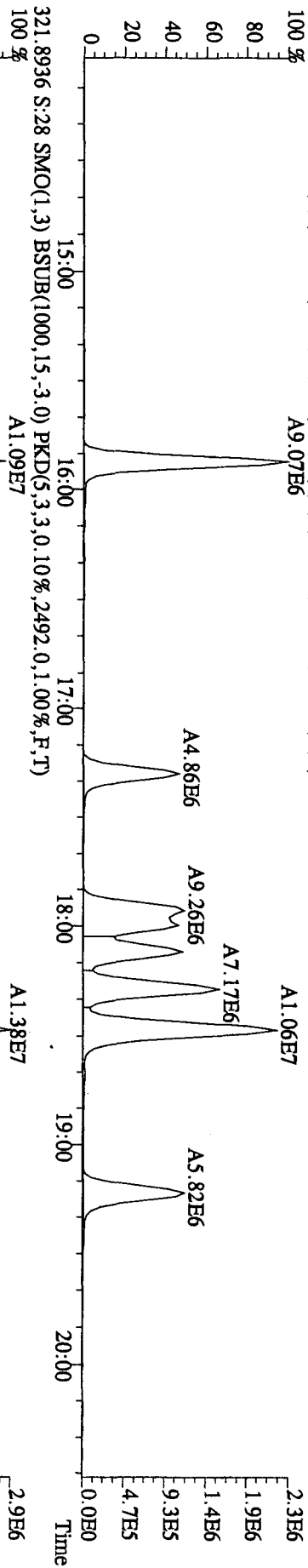
File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 09:09:45 GC EI+ Voltage SIR 70SE
 Sample#27 Text: ST1102D :CS3 10DXN505 Exp: DIOXINRES
 454.9728 S:27 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



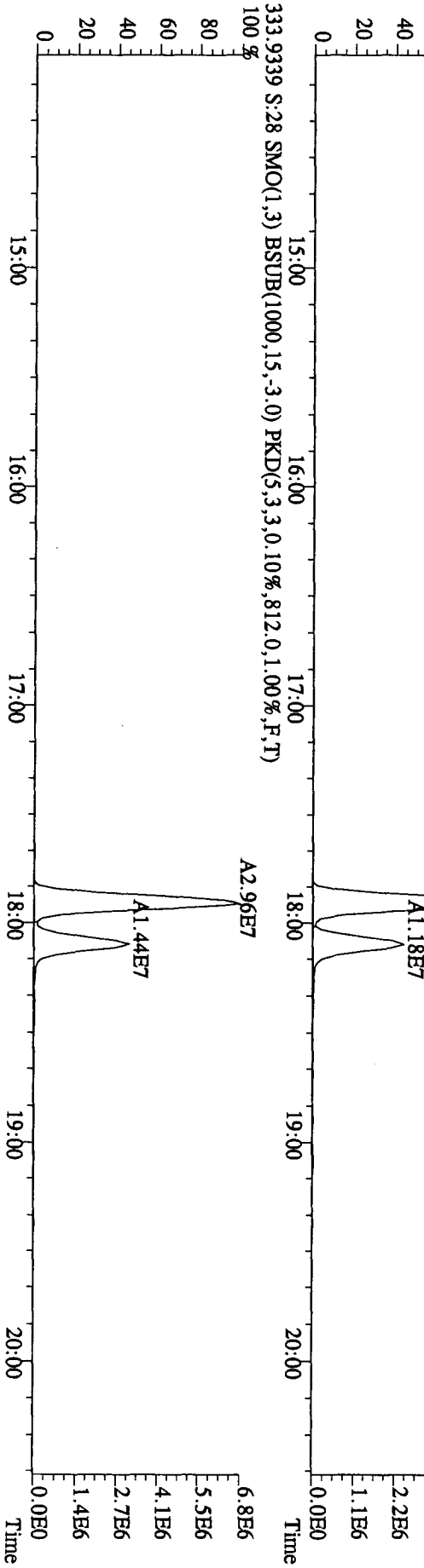
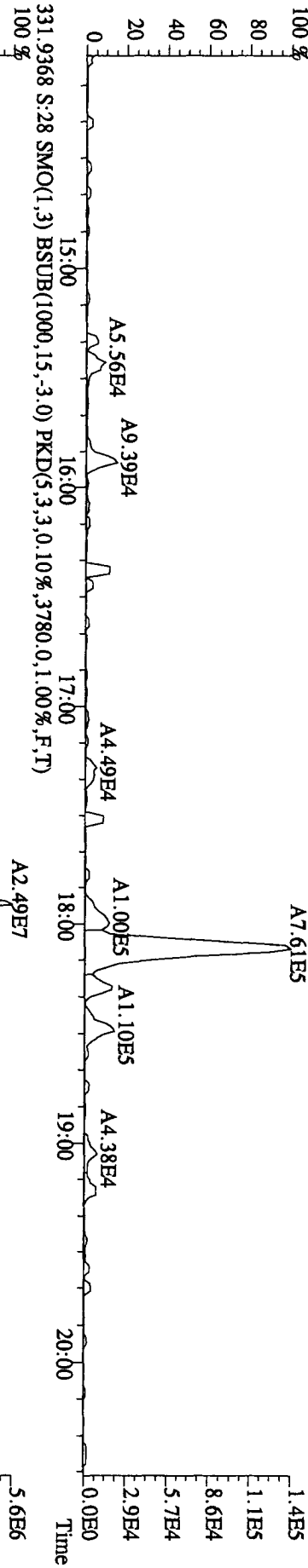
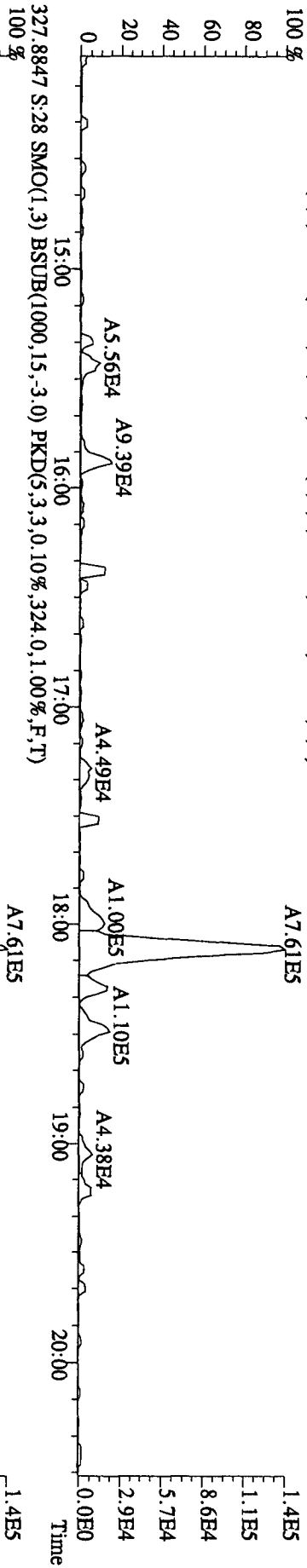
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 09:52:35 GC EI + Voltage STR 70SE
 Sample#28 Text: CP1102C :DB-5 CP5M 3732-10 Exp: DIOXINRES
 303.9016 S:28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1152,0,1,00%,F,T)
 100%



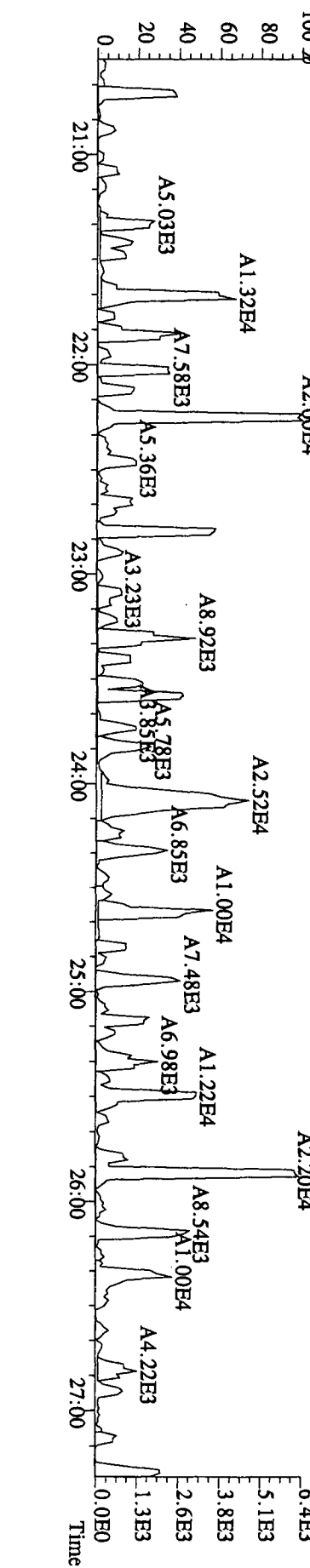
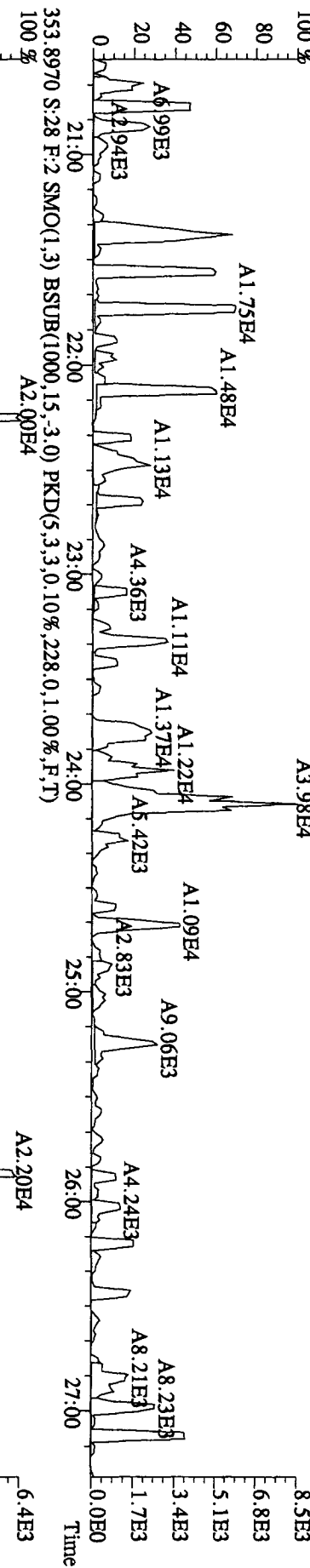
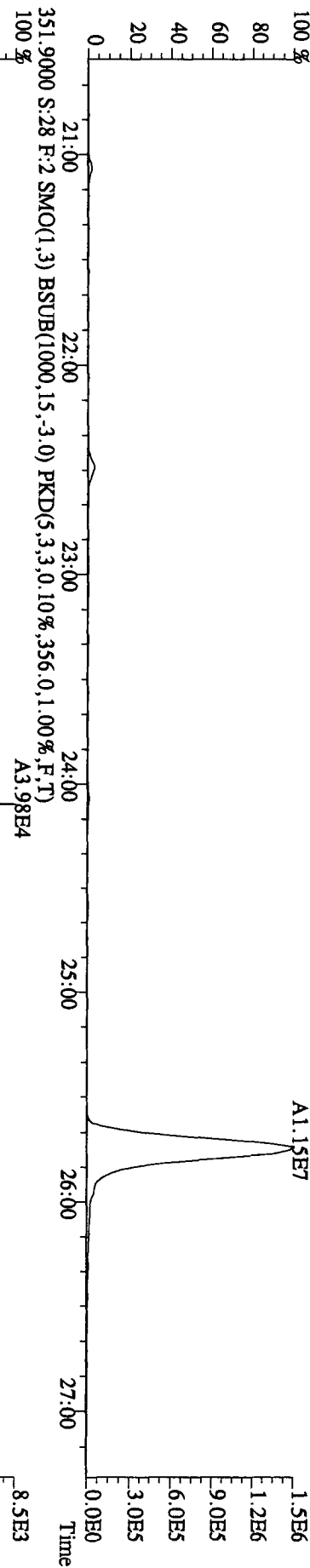
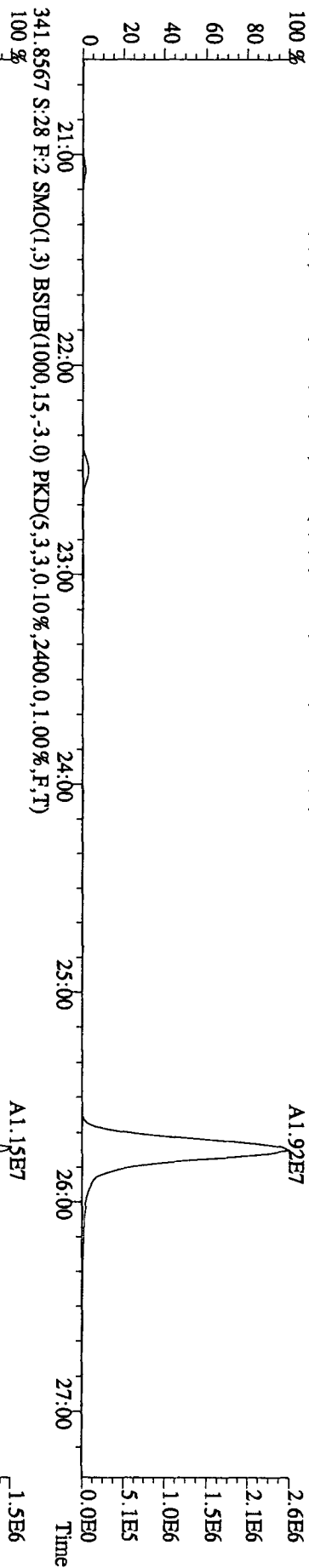
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CP5M 3732-10 Exp: DIOXINES
 319.8965 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4516.0,1.00%,F,T)
 100%



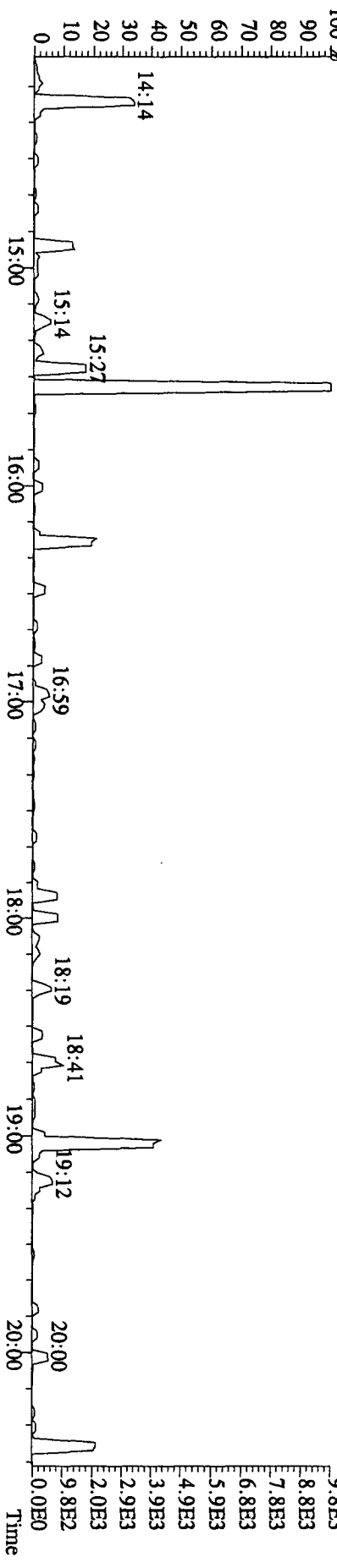
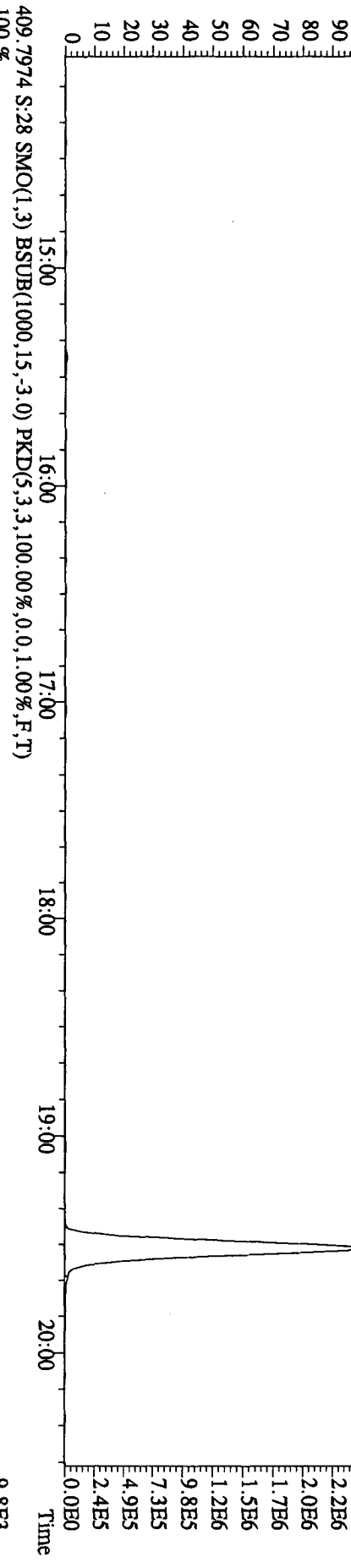
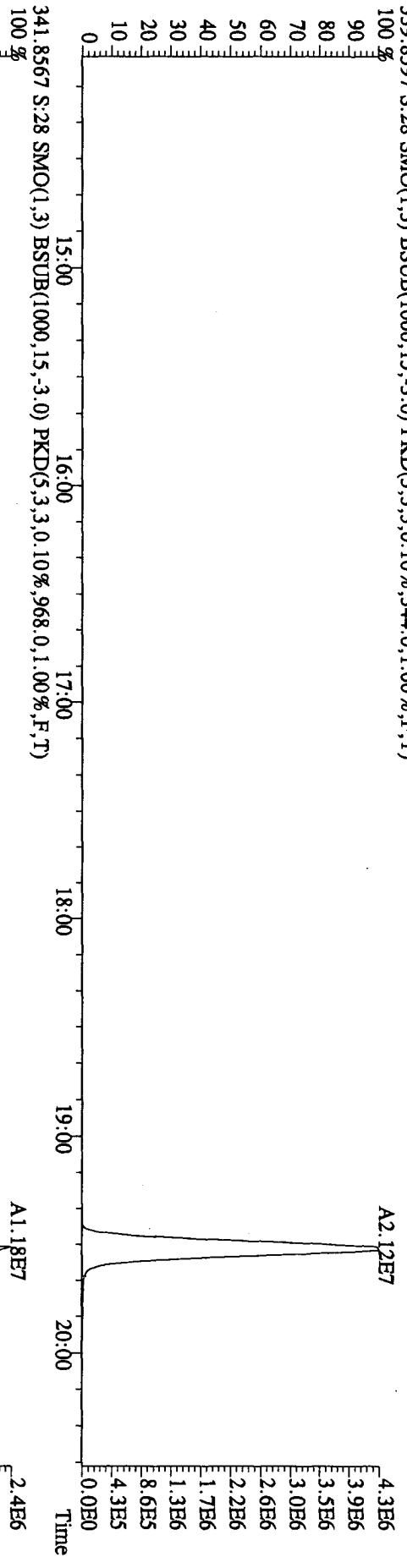
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 09:52:35 GC: EI+ Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CPSM 3732-10 Exp:DIOXINRES
 327.8847 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,324.0,1.00%,F,T)



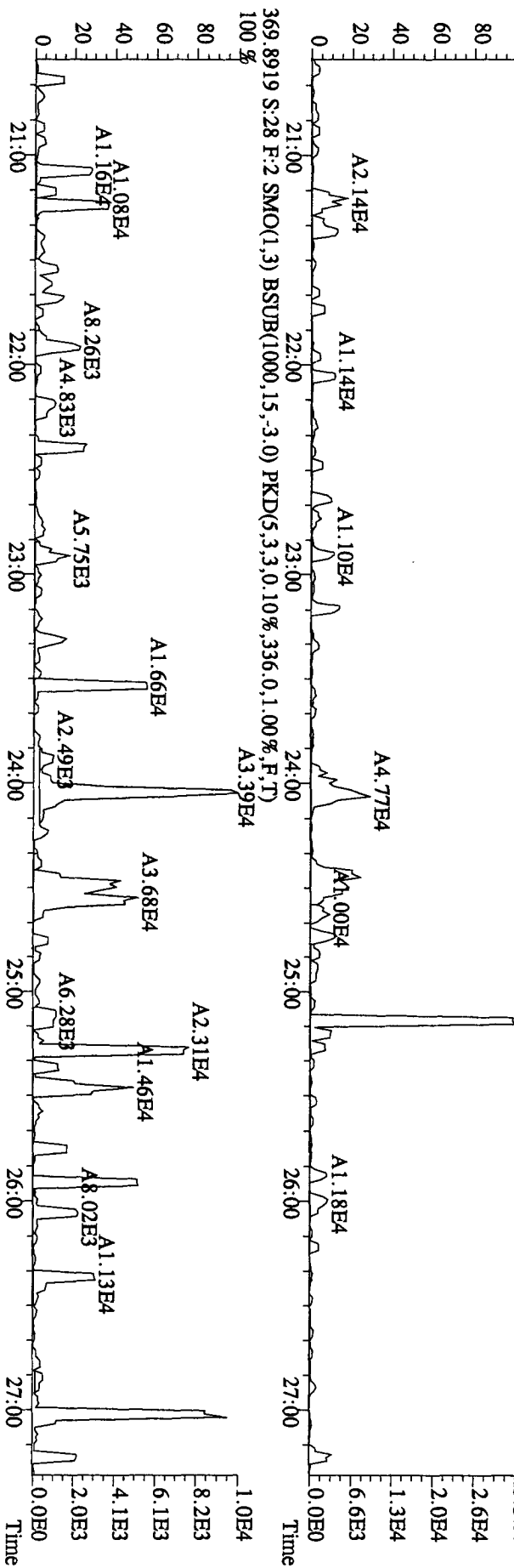
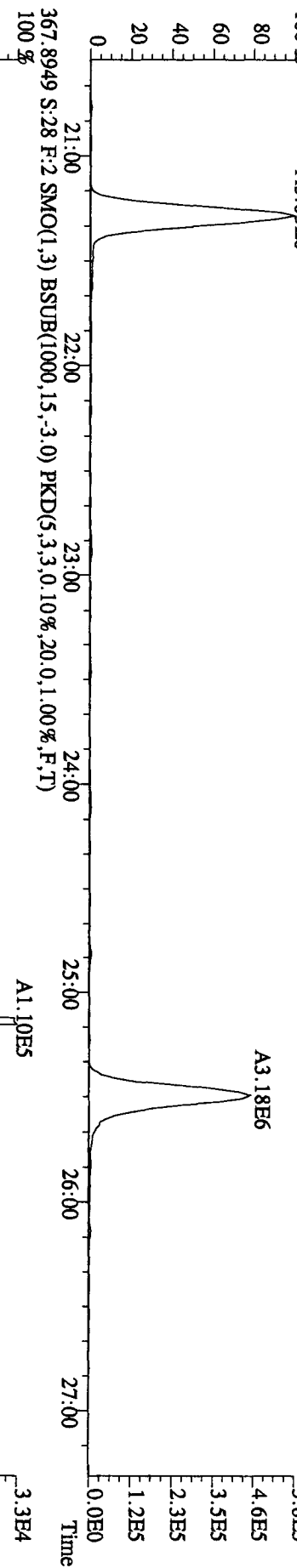
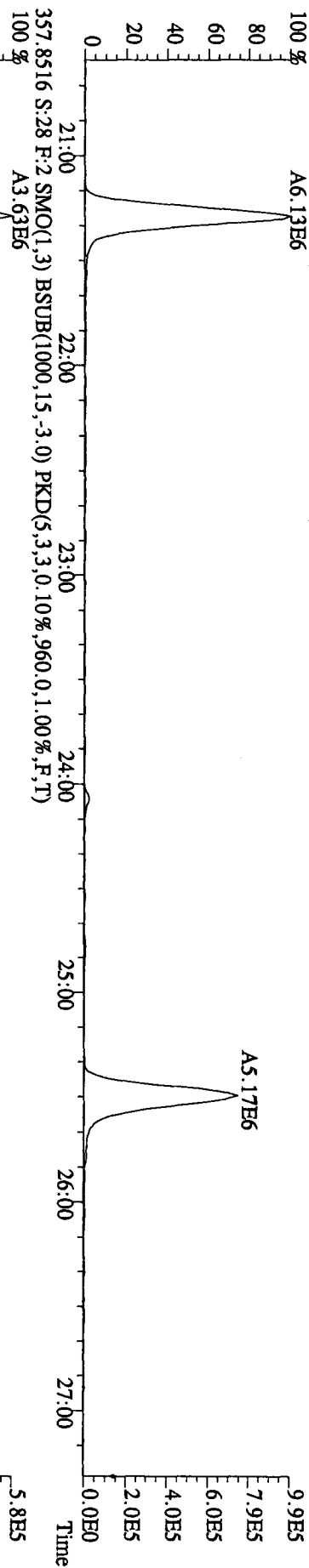
File: 02NO10A1D5 #1-422 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES
 339 8597 S:28 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488,0,1.00%,F,T)



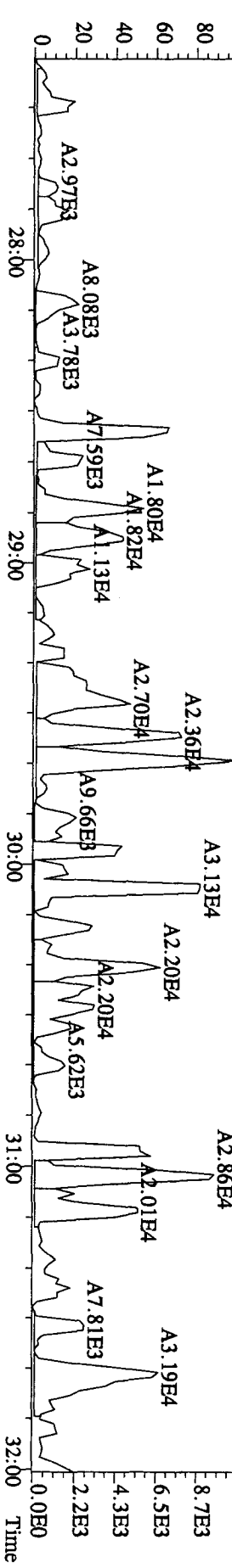
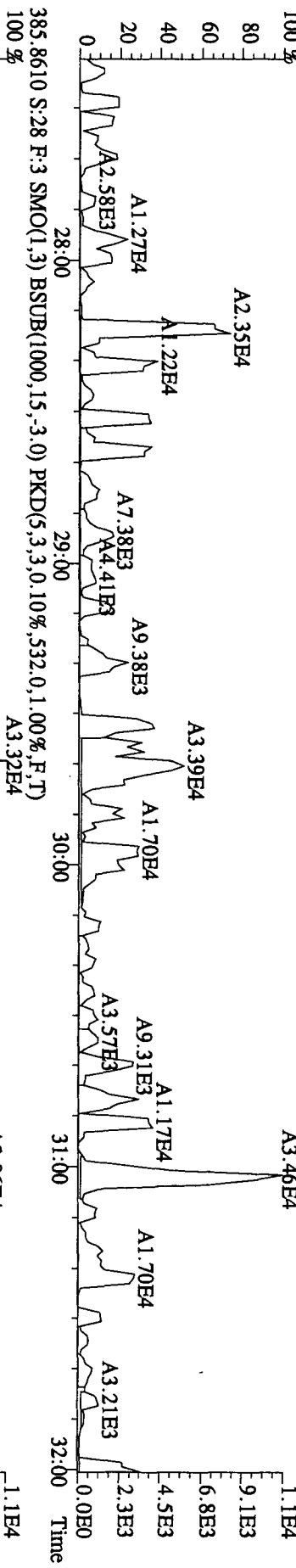
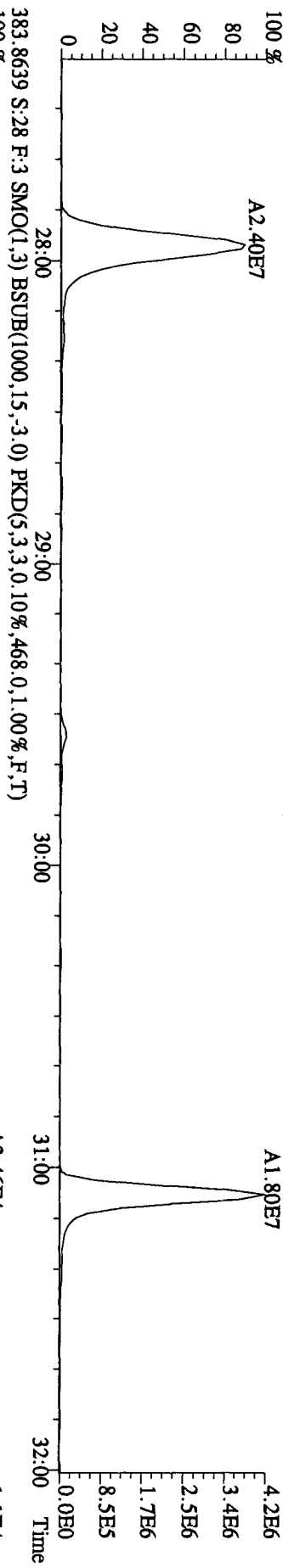
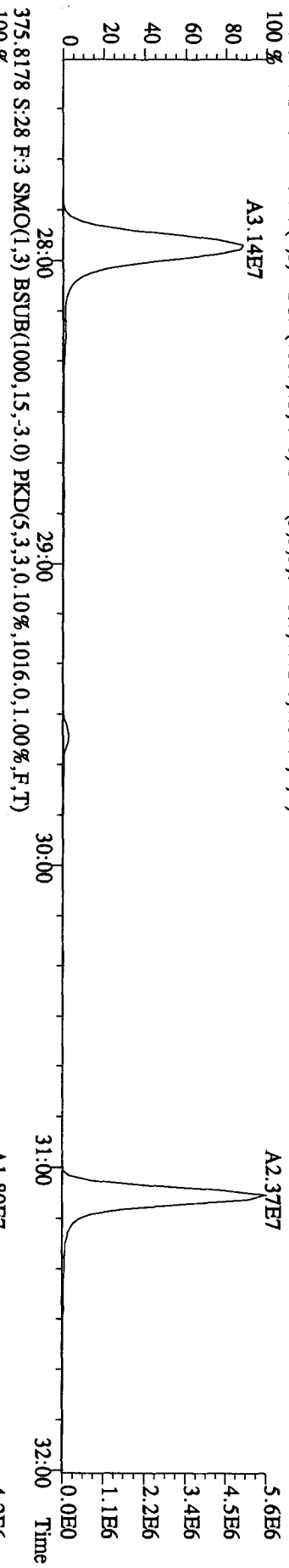
File:02N010A1D5 #1-382 Acq: 3-NOV-2010 09:52:35 GC EI + Voltage SIR 70SE
 Sample#28 Text:CPI102C :DB-5 CPSM 3732-10 Exp:DIOXINRES
 339.8597 S:28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,344,0,1.00%,F,T)



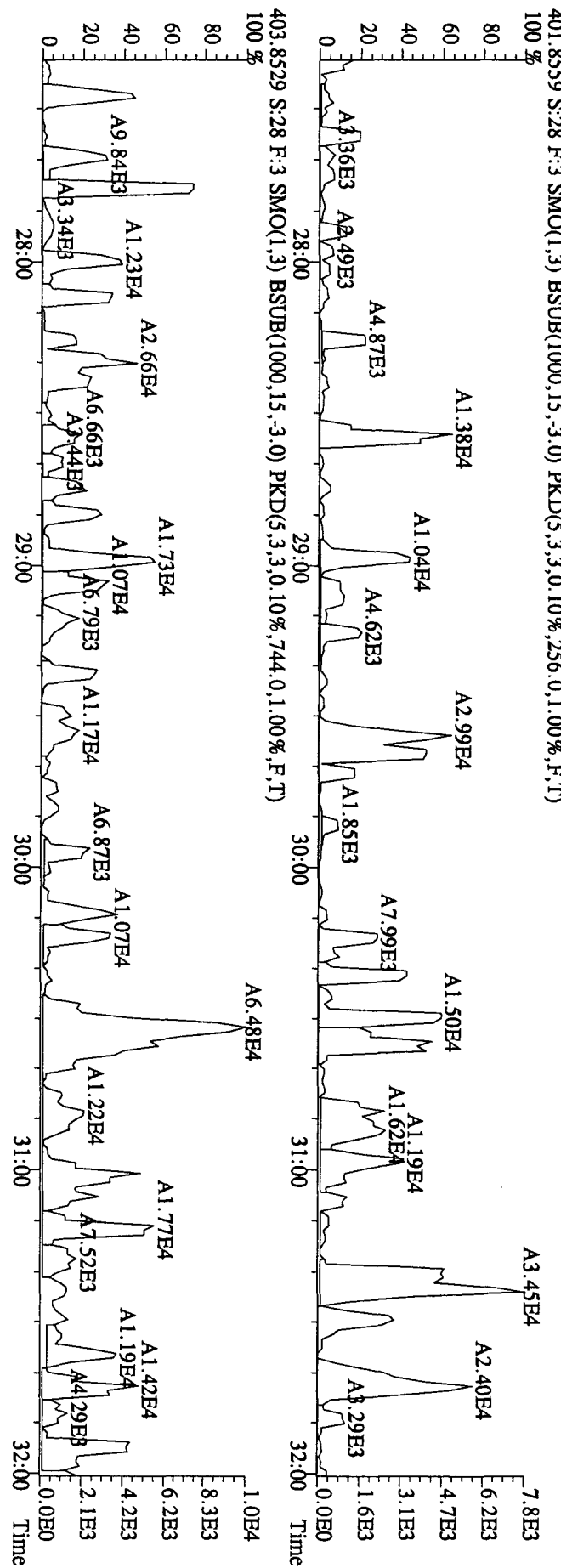
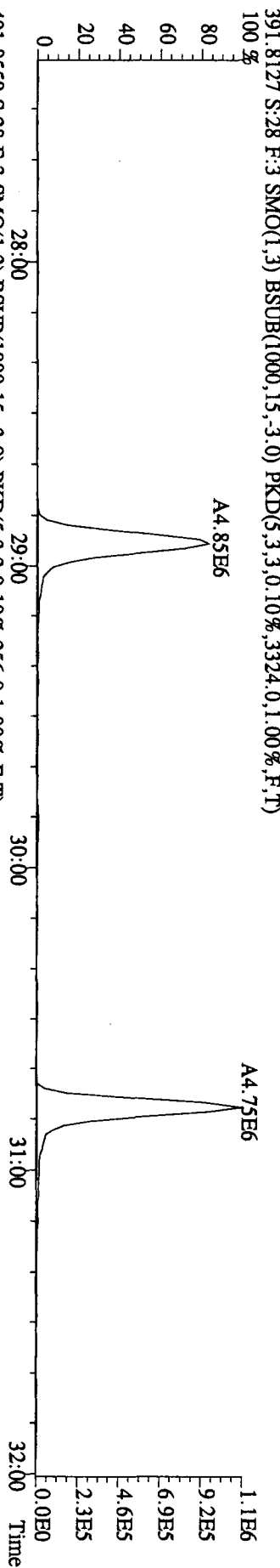
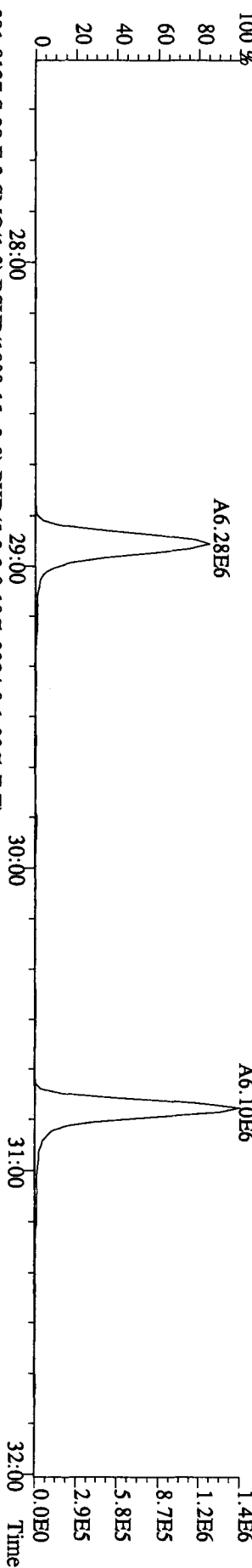
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CP5M 3732-10 Exp:DIOXINRES
 355.8546 S:28 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2164,0,1,00%,F,T)



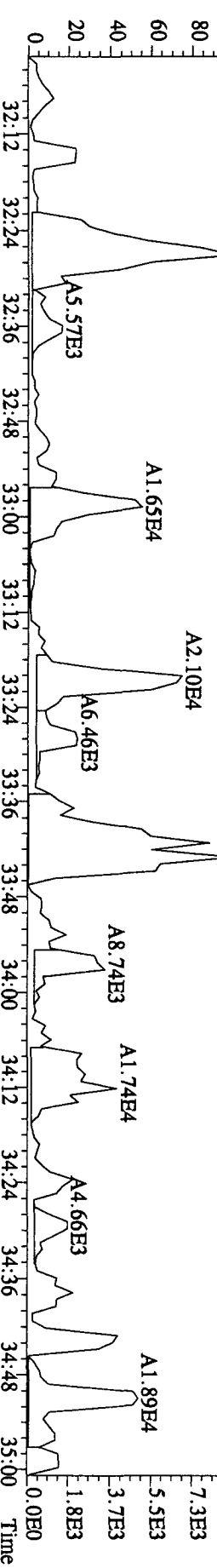
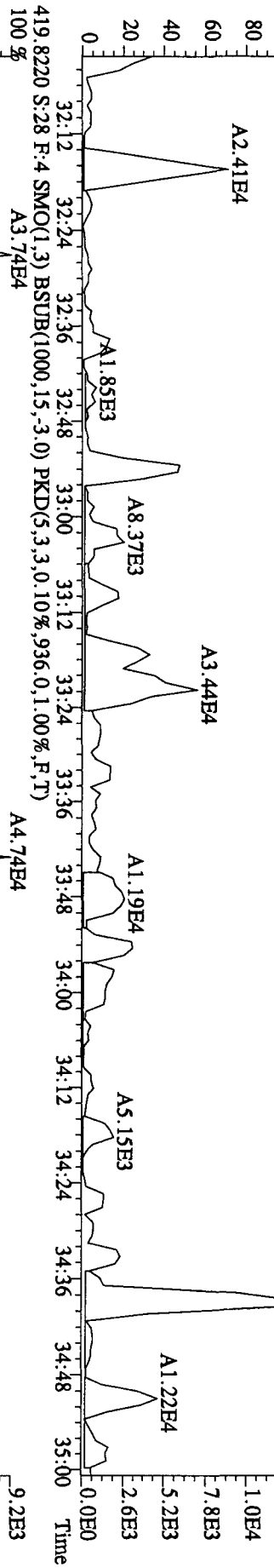
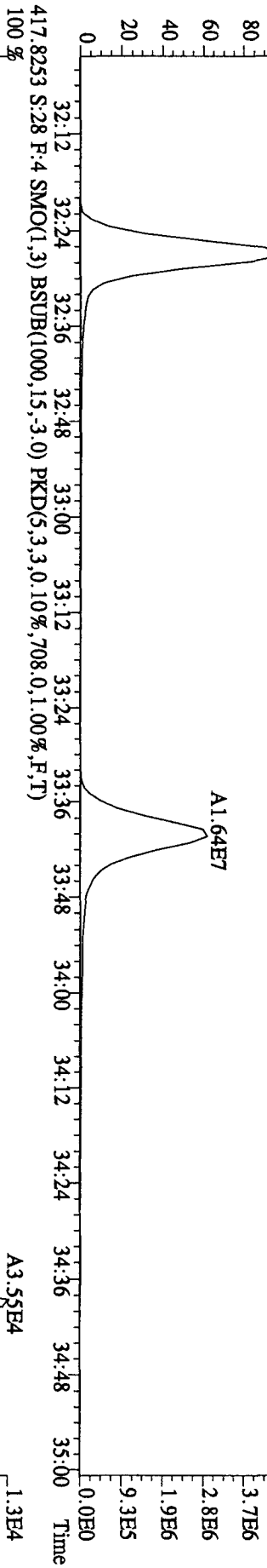
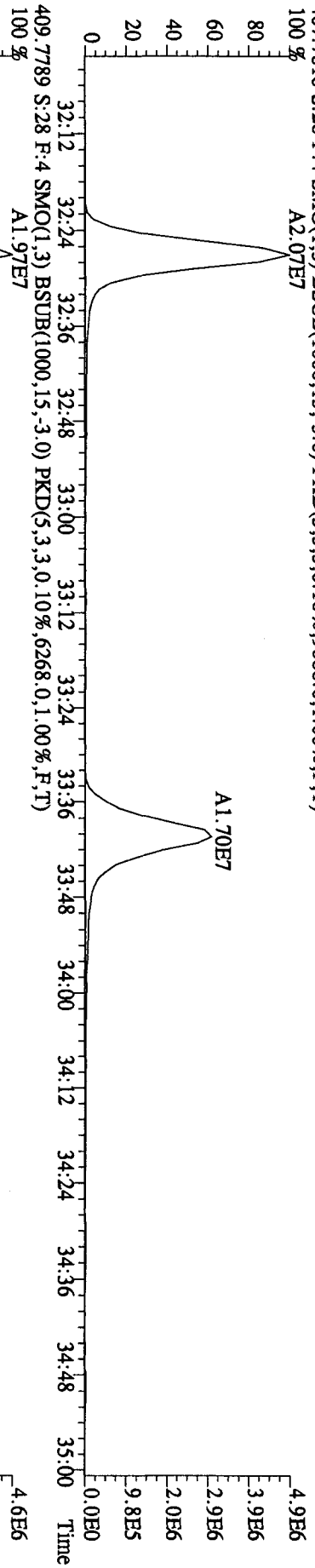
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES
 373.8208 S:28 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4172.0,1.00%,F,T)

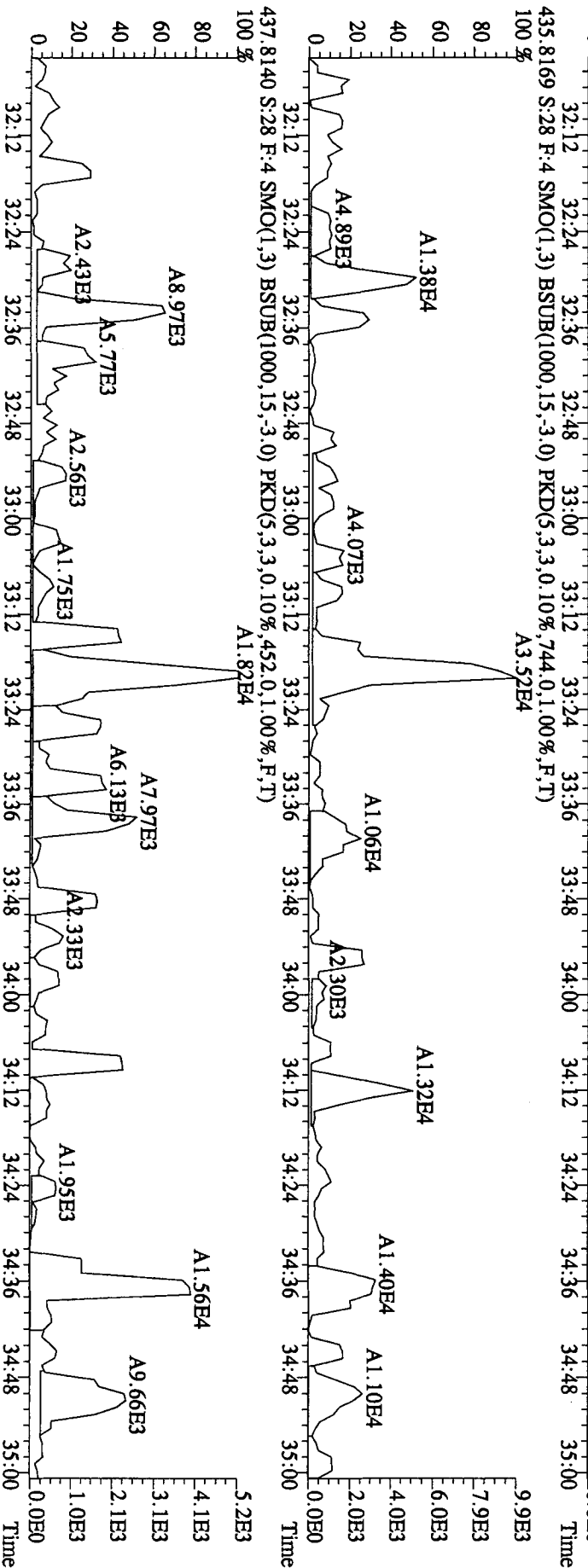
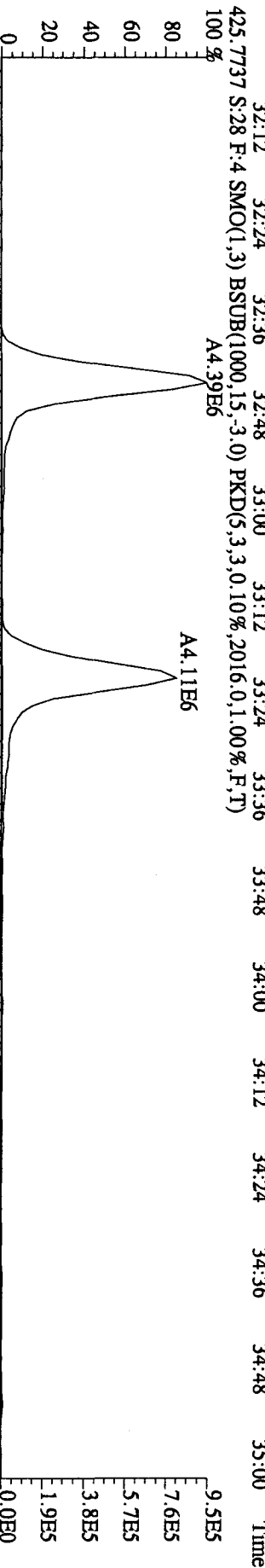
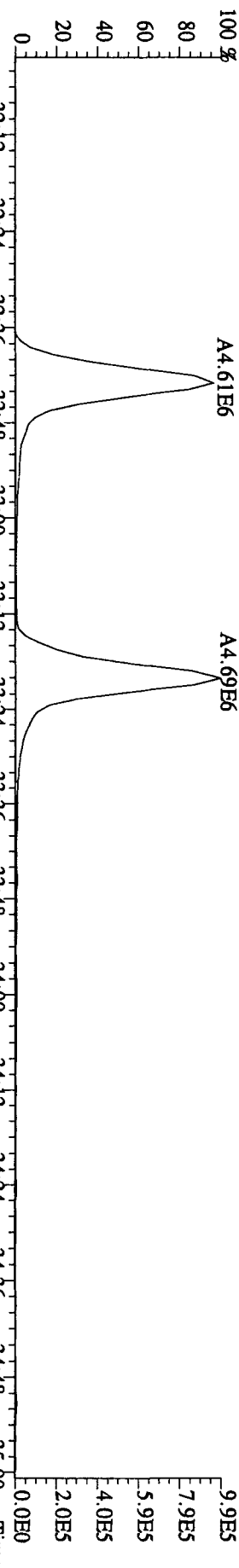


File:02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CP5M 3732-10 Exp:DIOXINRES
 389.8157 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2000.0,1.00%,F,T)

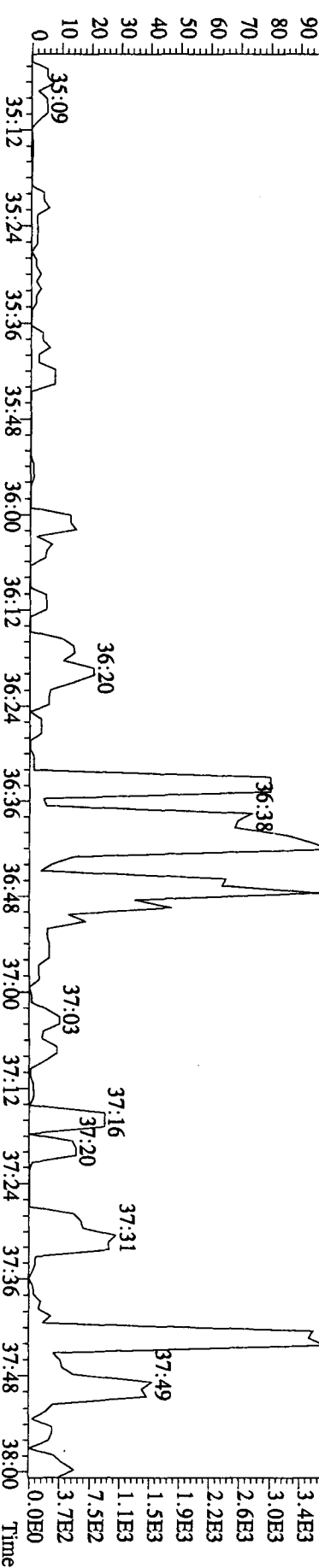
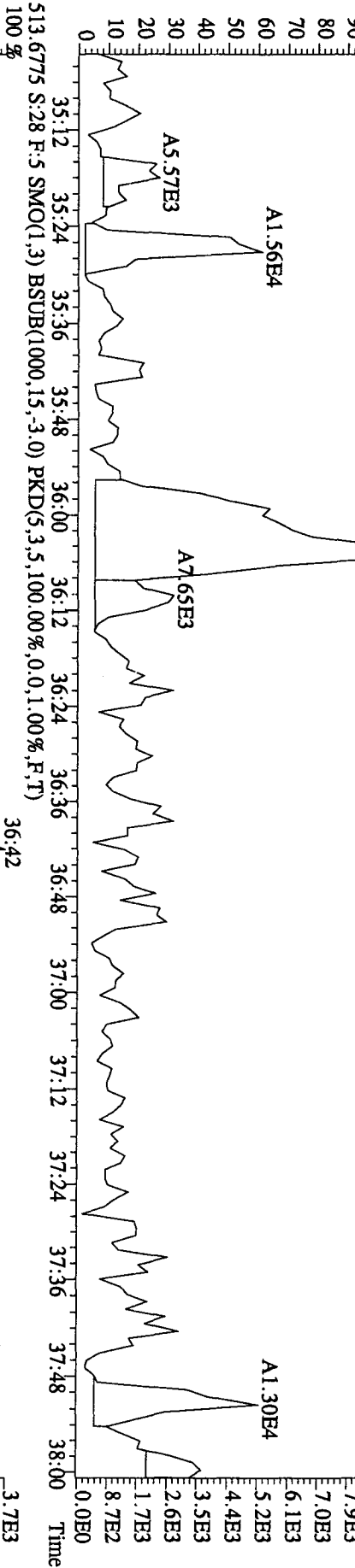
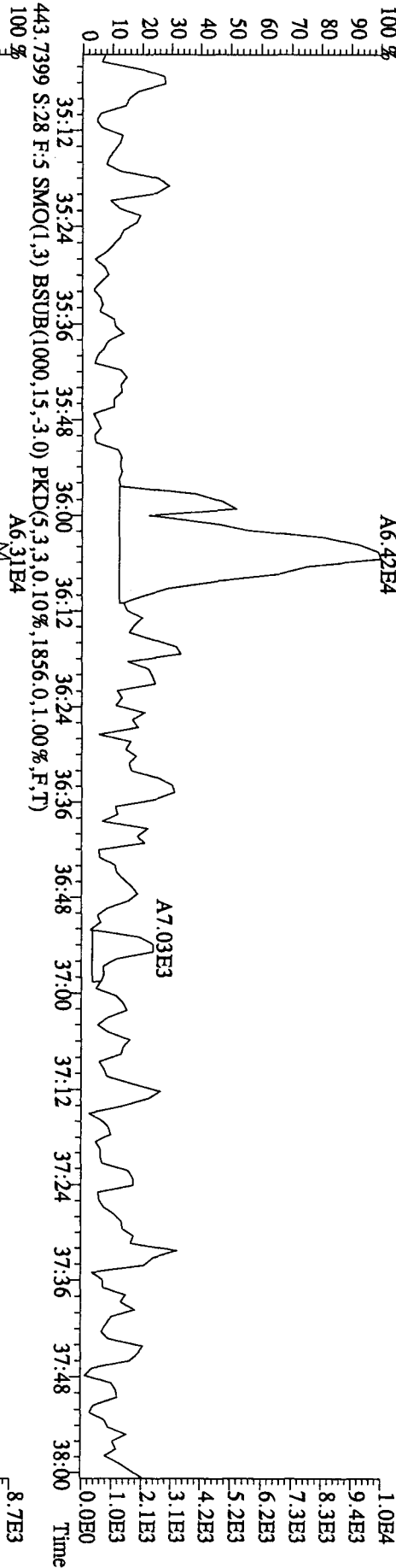


File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 09:52:35 GC EI + Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CP5M 3732-10 Exp:DIOXINRES
 407.7818 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9688,0.1,00%,F,T)

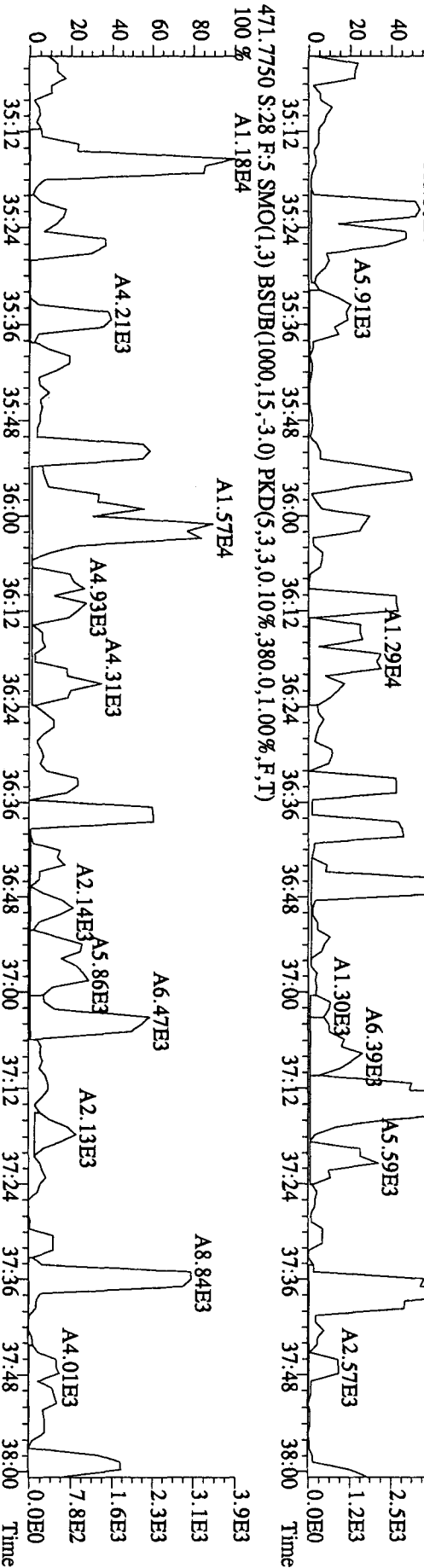
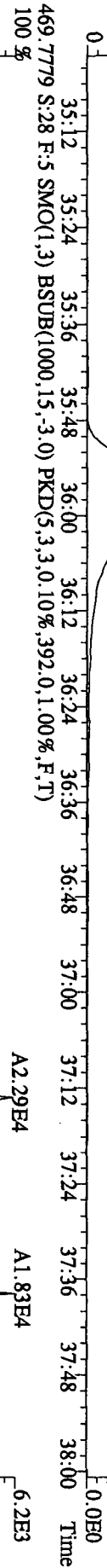
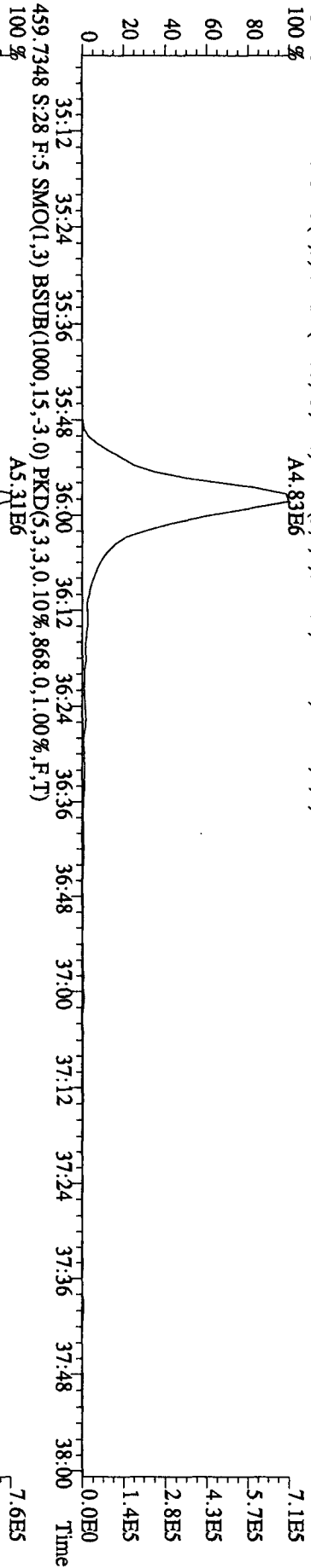


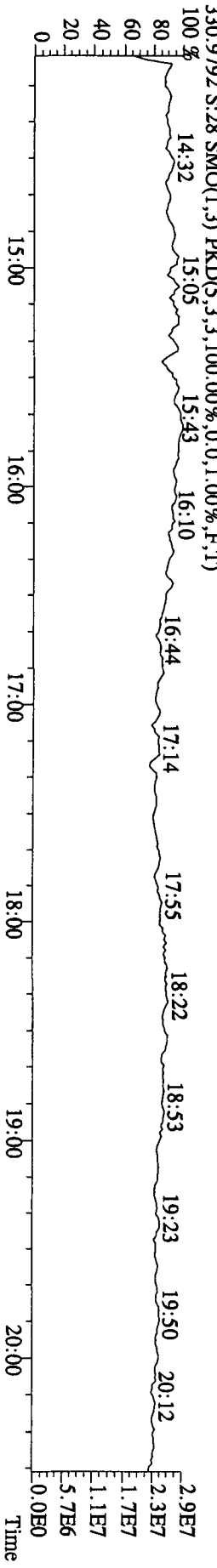
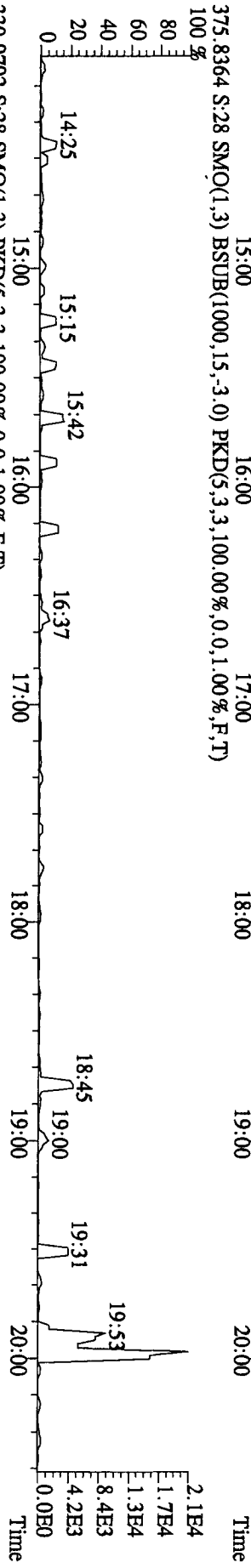
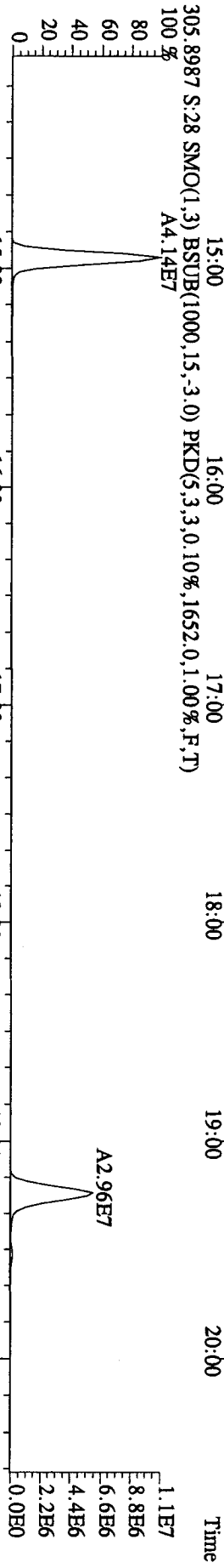
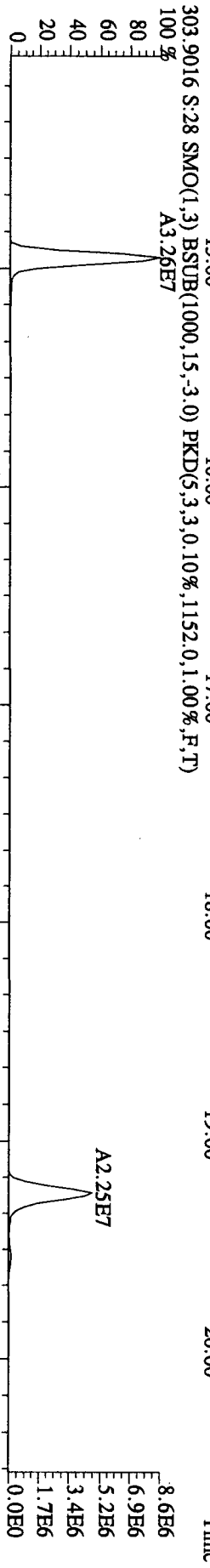
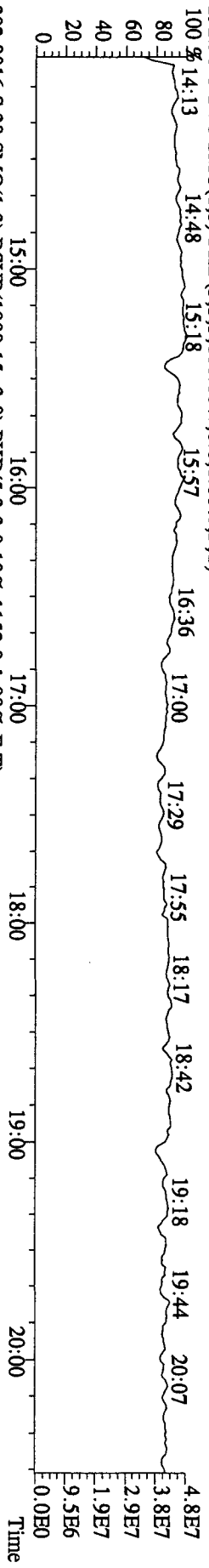


File:02NNO10A1ID5 #1-196 Acq: 3-NOV-2010 09:52:35 GC EI + Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CFSM 3732-10 Exp:DIOXINES
 441.7428 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1904,0,1.00%,F,T)

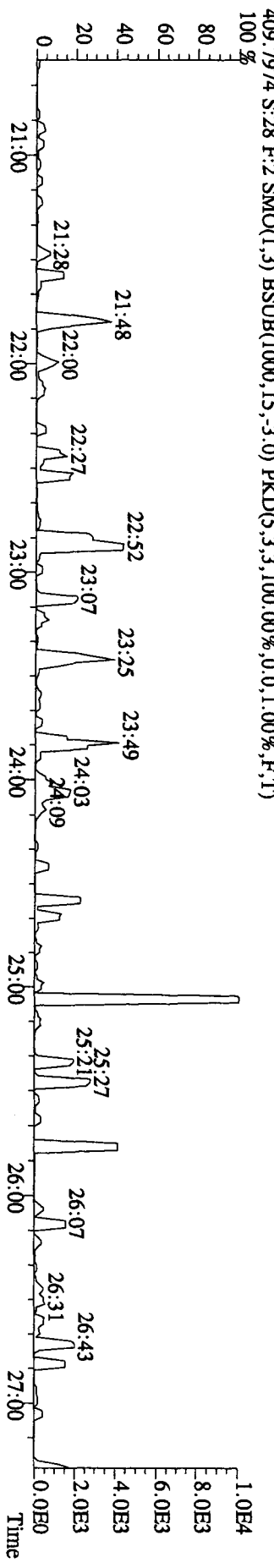
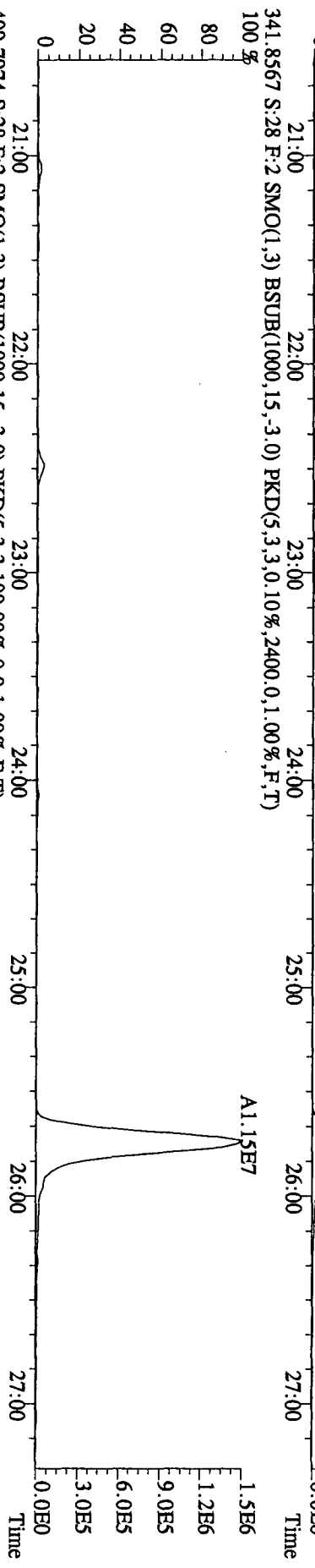
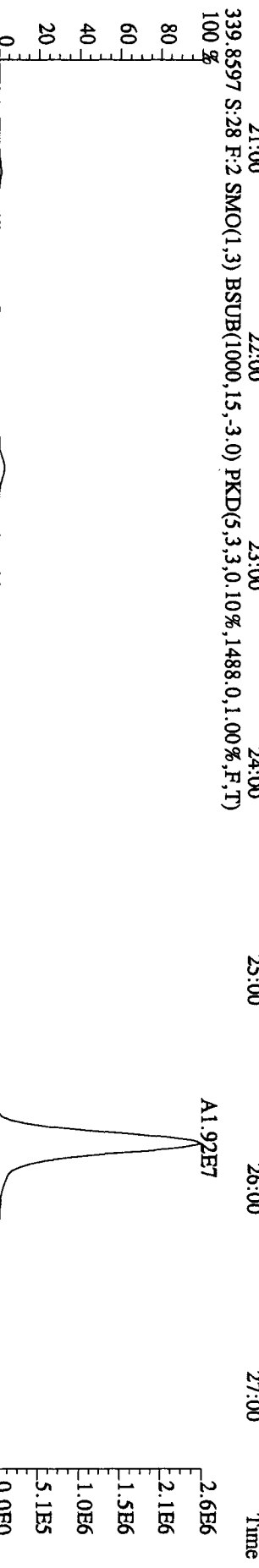
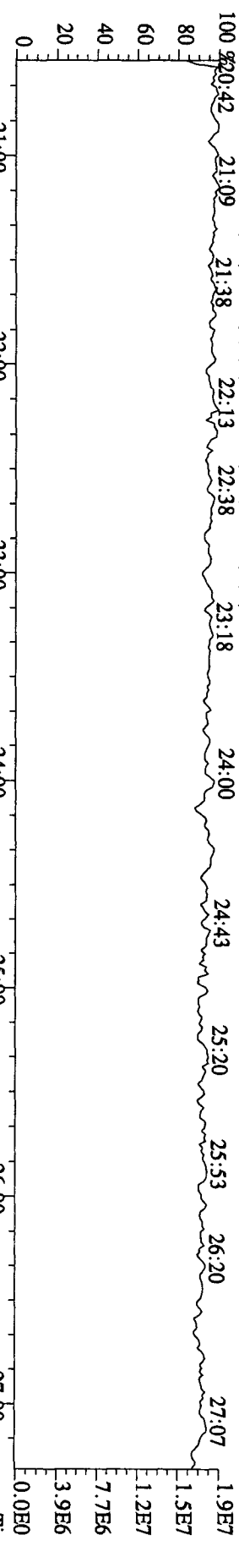


File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text:CP1102C :DB-5 CPSM 3732-10 Exp:DIOXINRES
 457.7377 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1292.0,1.00%,F,T)
 100 %

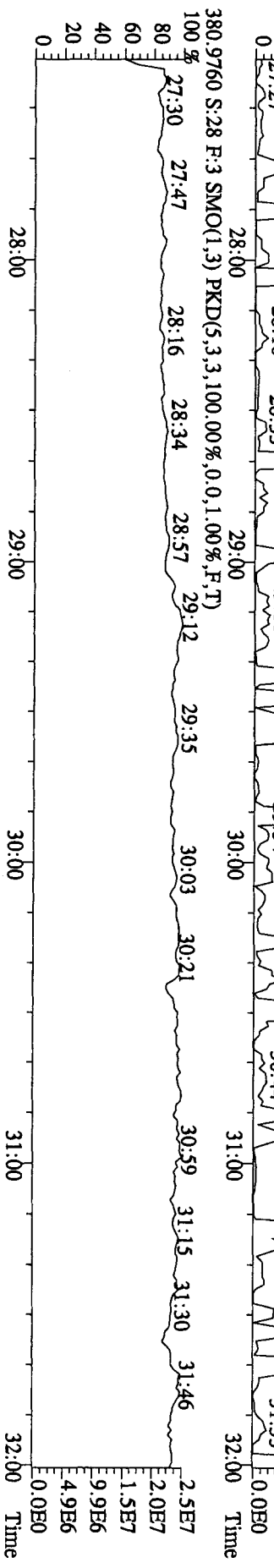
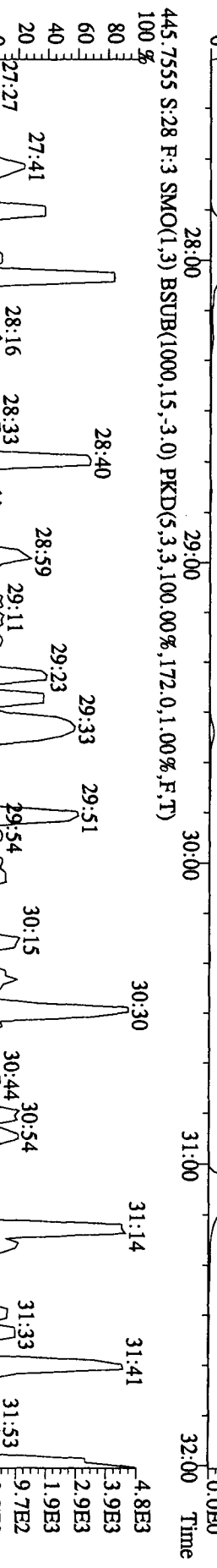
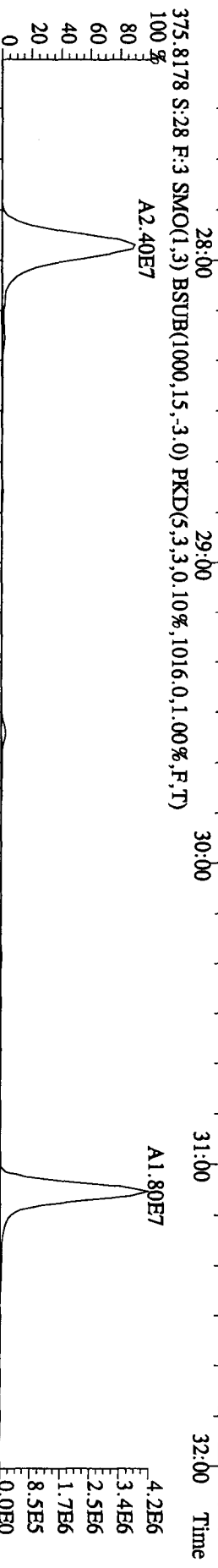
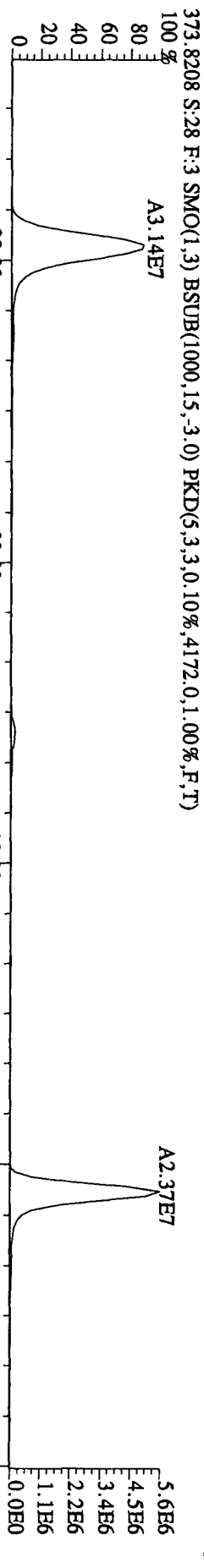
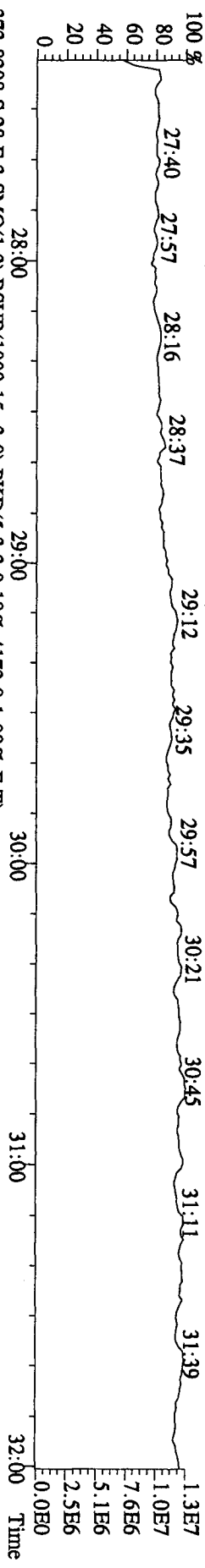




File: 02NO10A1D5 #1-422 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES
 342.9792 S:28 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 20:42 21:09 21:38 22:13 22:38 23:18 24:00 24:43 25:20 25:53 26:20 27:07



File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES
 392.9760 S:28 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

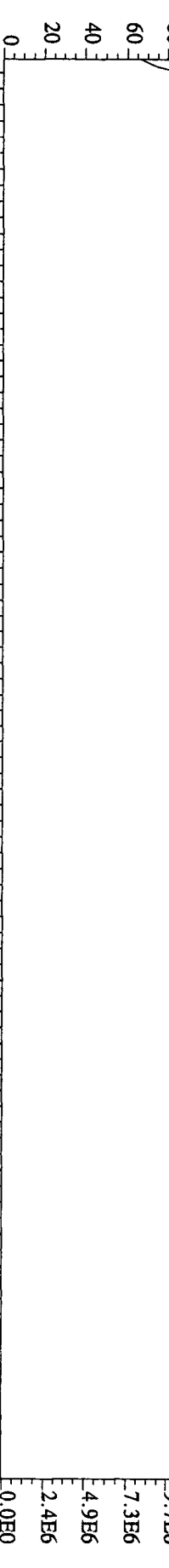


File: 02NO10A1.D5 #1-203 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE

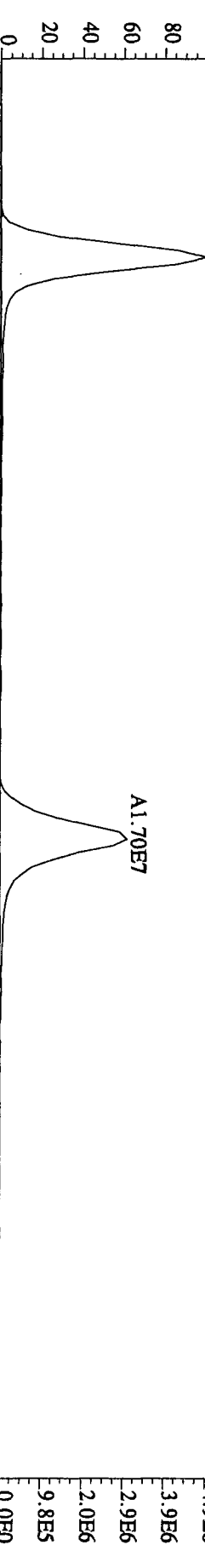
Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES

430.9728 S:28 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

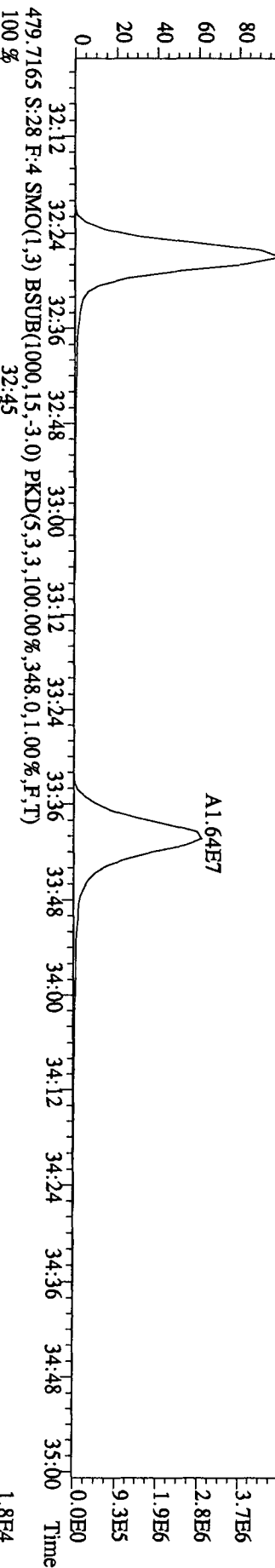
100% 32:08 32:19 32:42 32:54 33:19



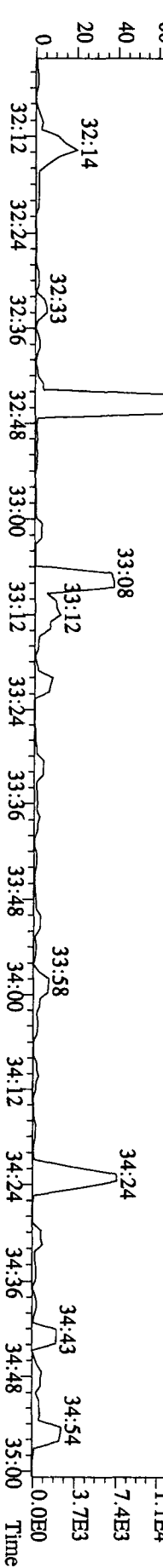
407.7818 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9688.0,1.00%,F,T)



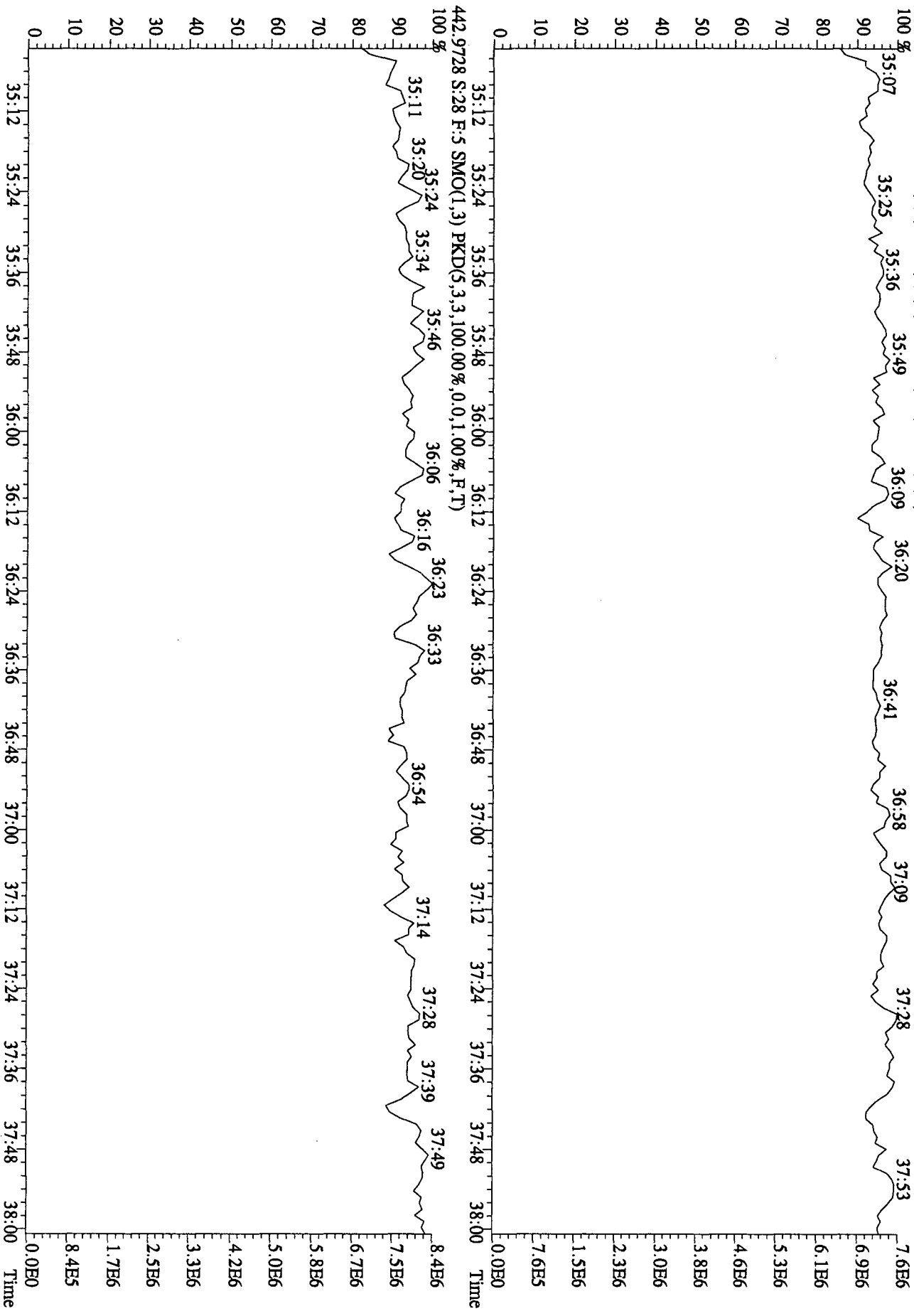
409.7789 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6268.0,1.00%,F,T)



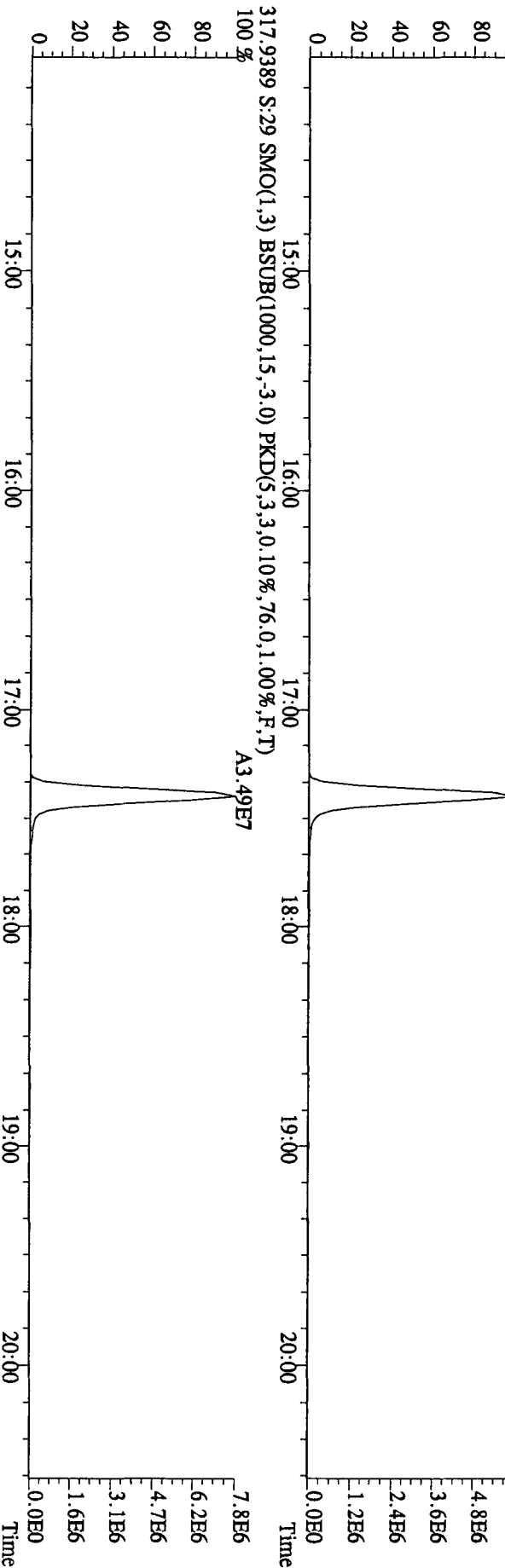
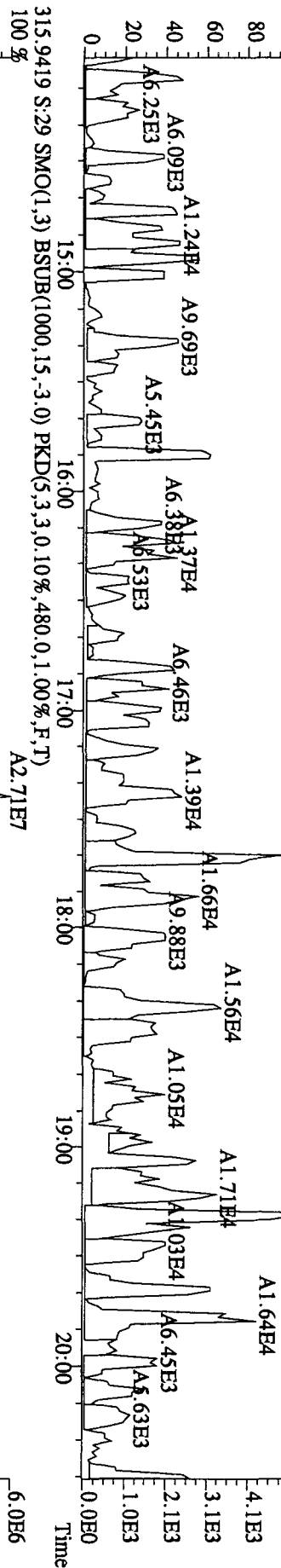
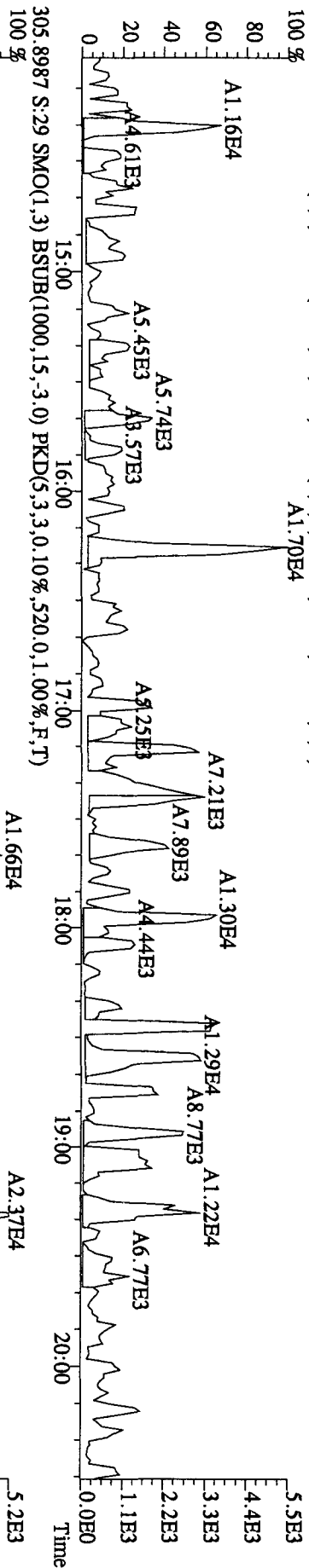
479.7165 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,348.0,1.00%,F,T)



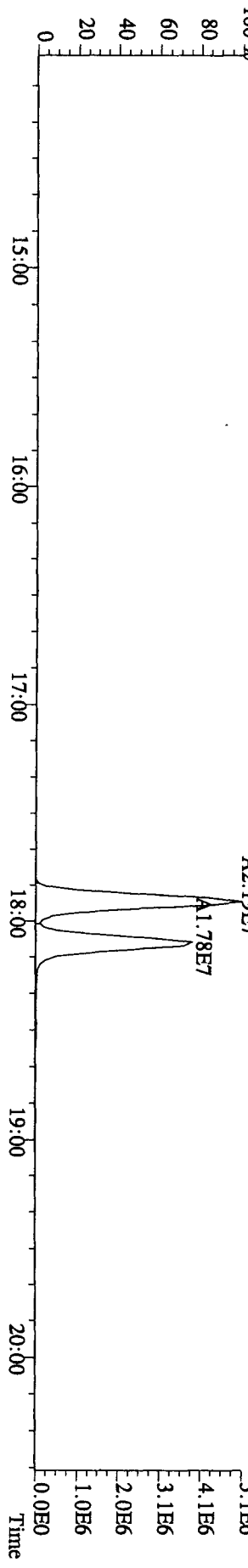
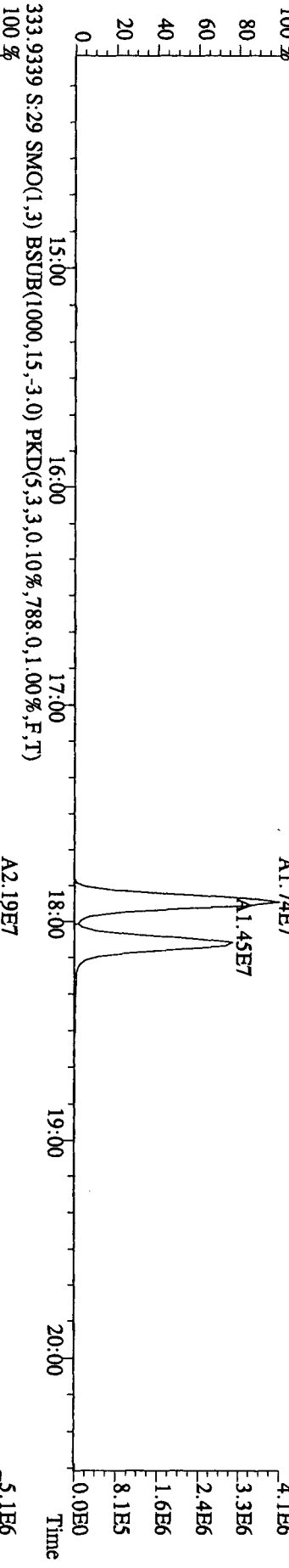
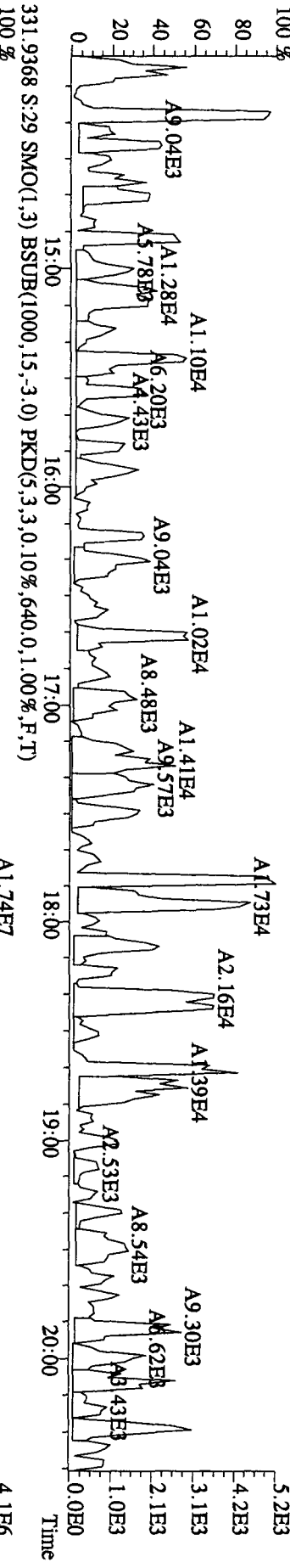
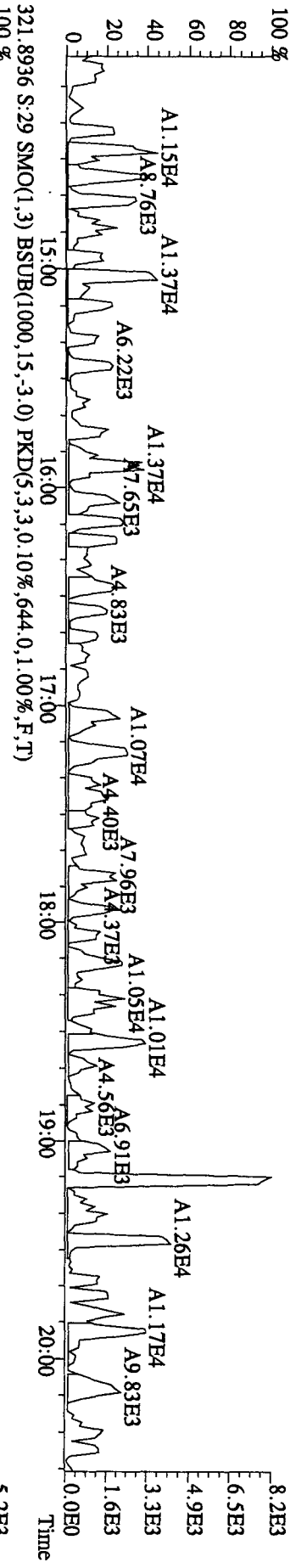
File: 02N010A1D5 #1-196 Acq: 3-NOV-2010 09:52:35 GC EI+ Voltage SIR 70SE
 Sample#28 Text: CP1102C :DB-5 CPSM 3732-10 Exp: DIOXINRES
 454.9728 S:28 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



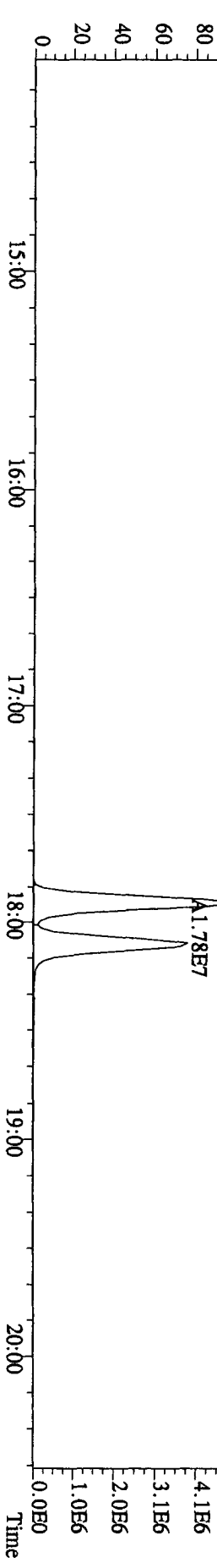
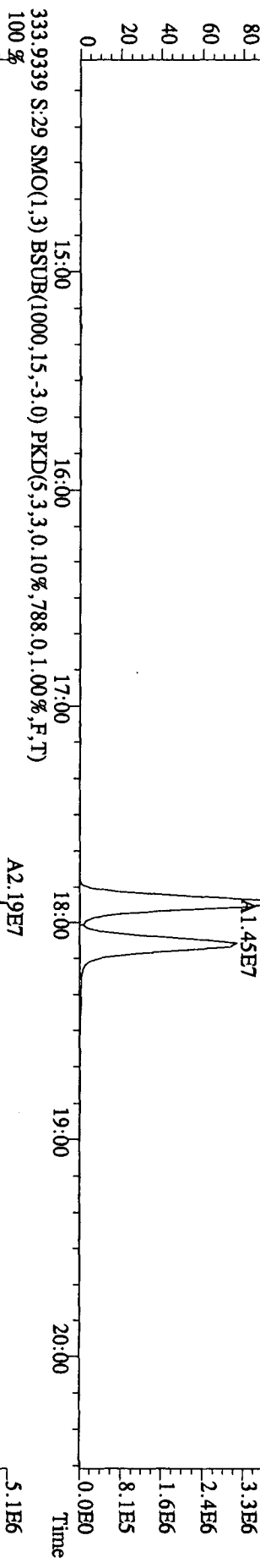
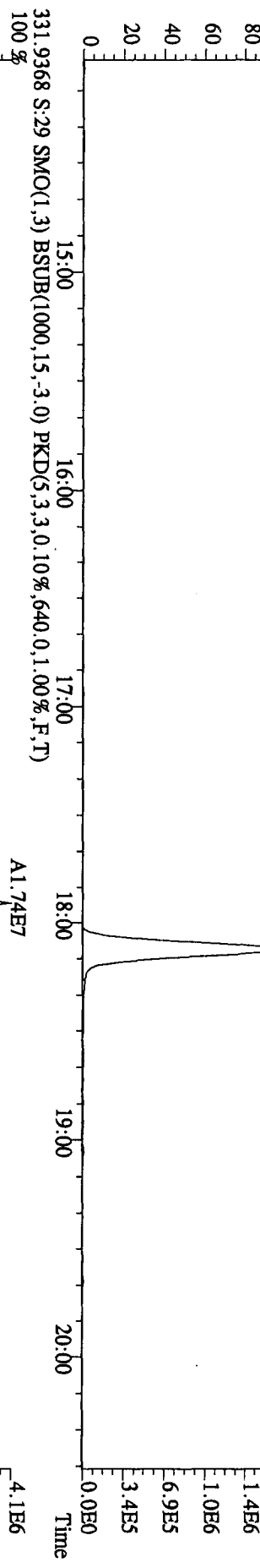
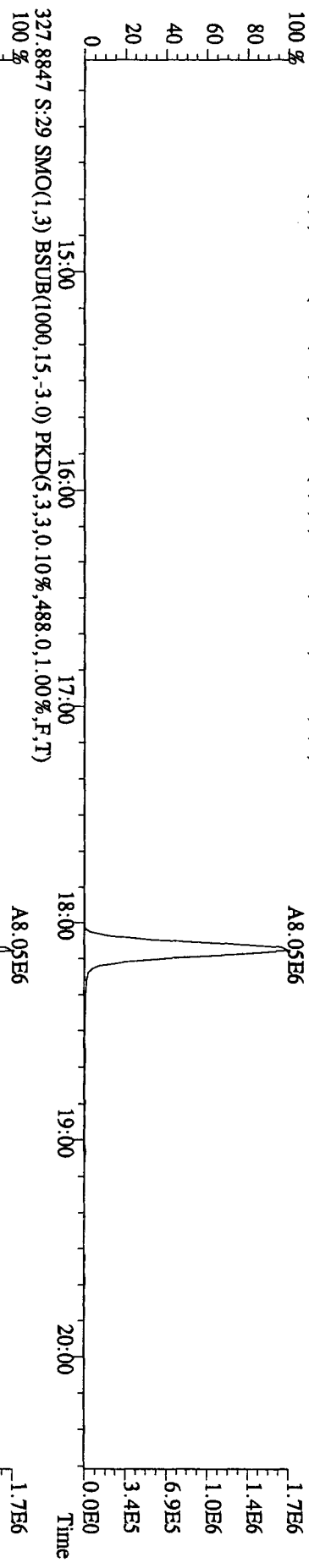
File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:1.84XI-1-AA :G01260480-3MB Exp:DIOXINRES
 303.9016 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,756,0,1,00%,F,T)
 100%



File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XJ1-AA :G0J260480-3MB Exp:DIOXINRES
 319.8965 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,708,0.1,00%,F,T)

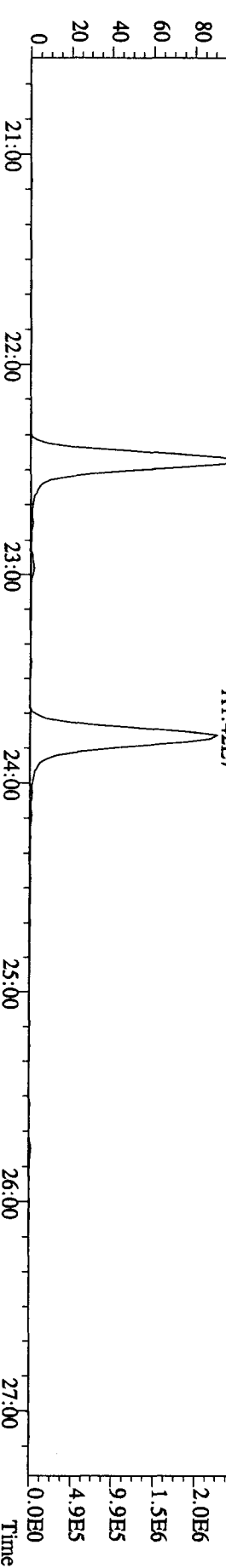
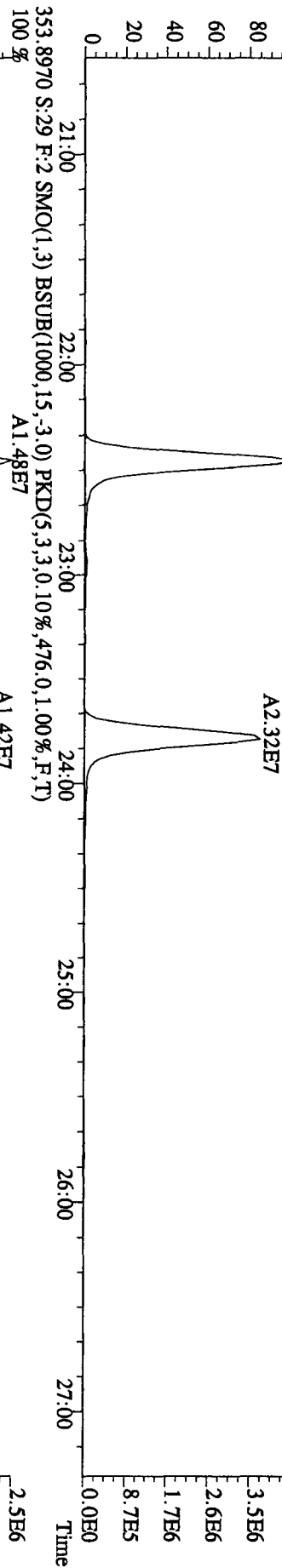
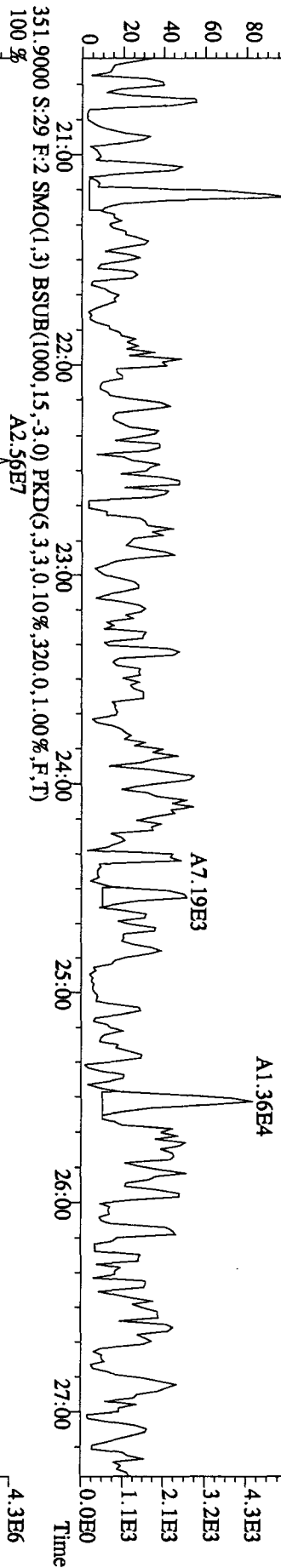
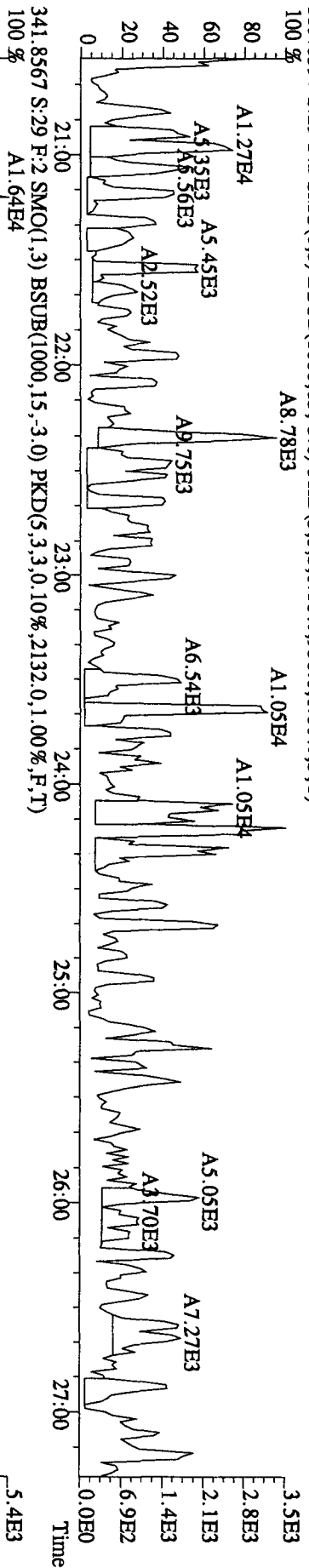


File: 02NO10A1ID5 #1-382 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text: L84XI-1-AA :G0J260480-3MB Exp: DIOXINRES
 327.8847 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,488,0,1,1.00%,F,T)
 100%

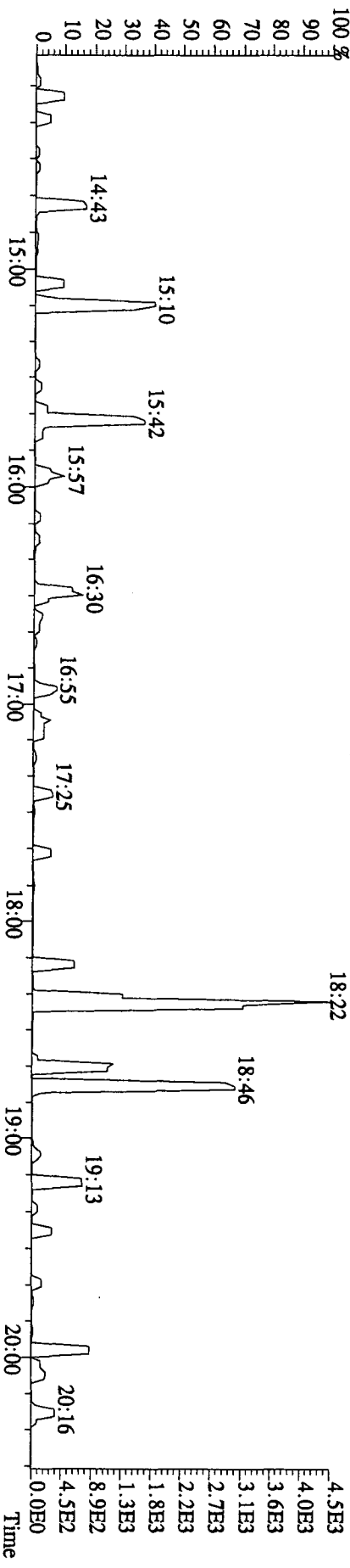
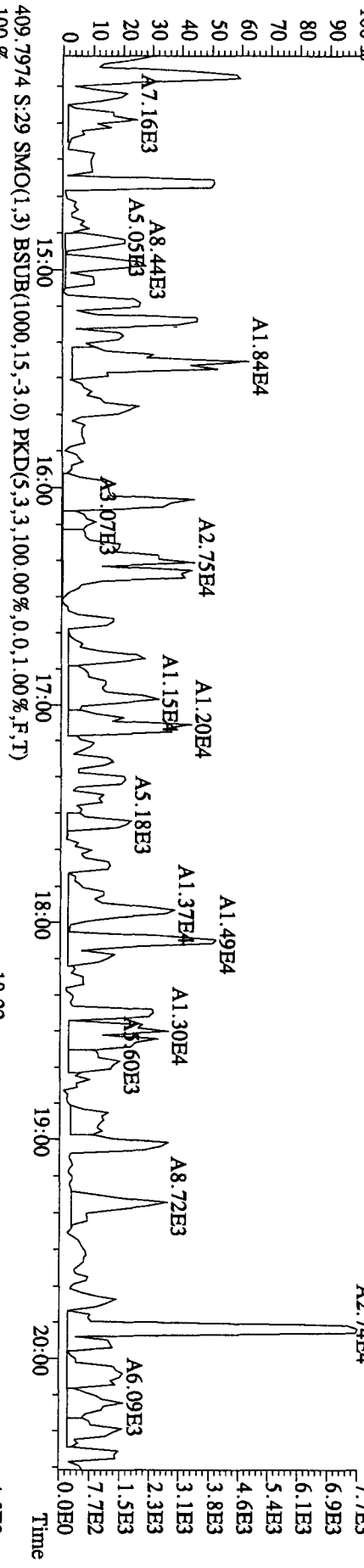
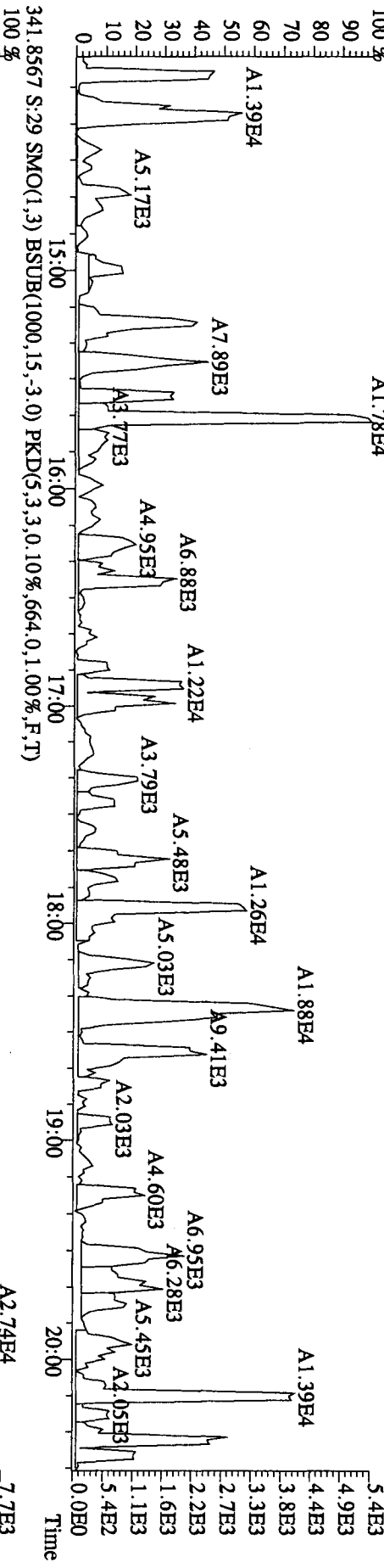


Sample#29 Text:L84XJ1-AA :G0J260480-3MB

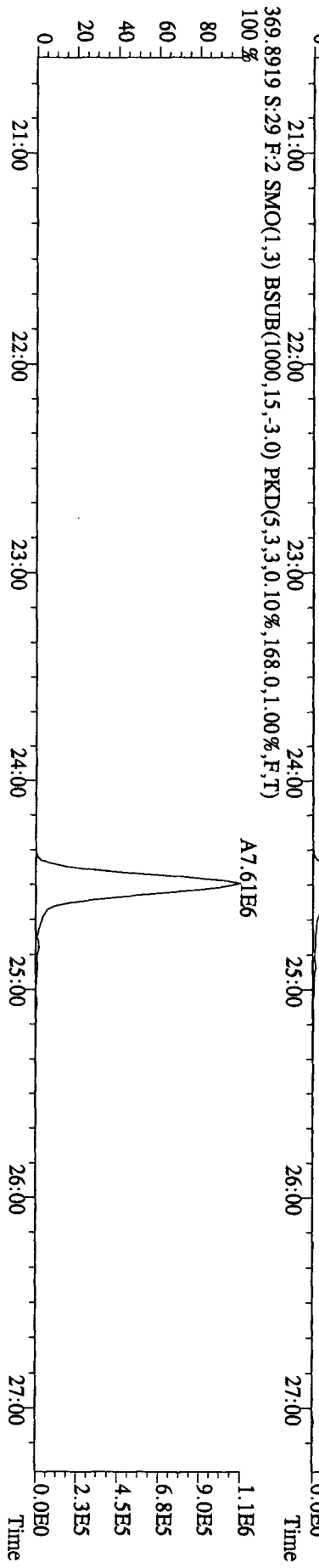
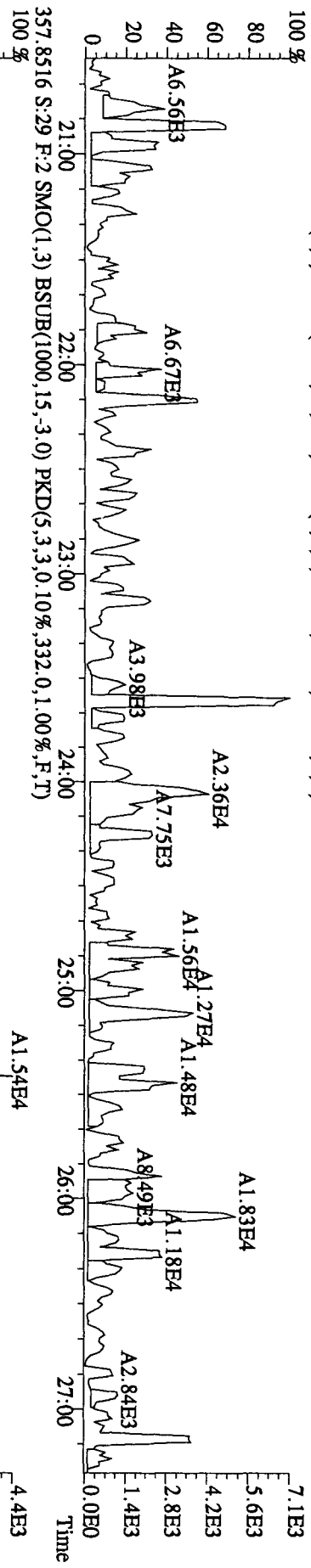
339.8597 S:29 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,956.0,1.00%,F,T)



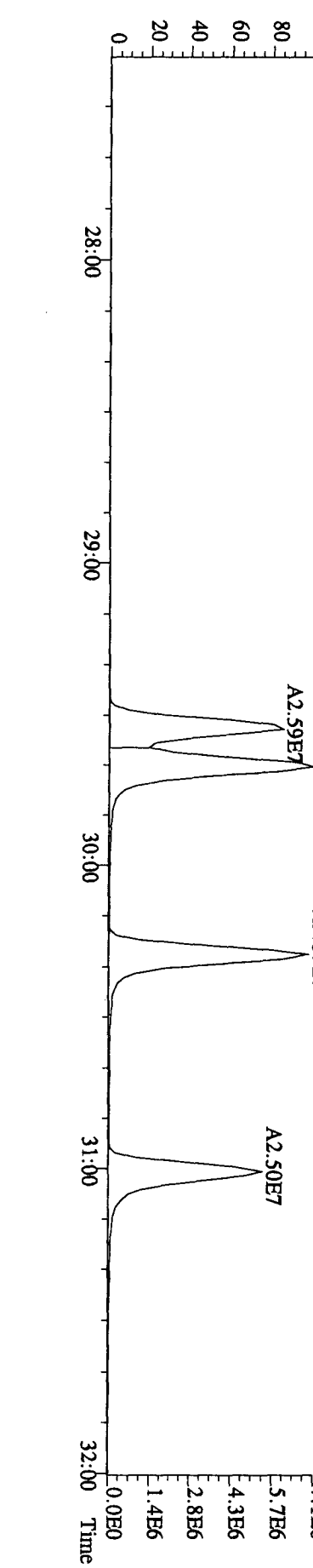
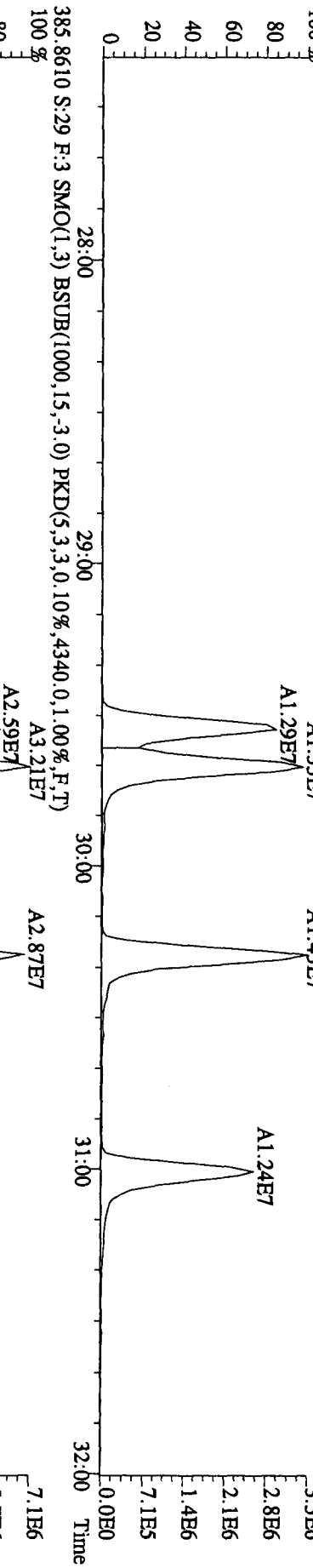
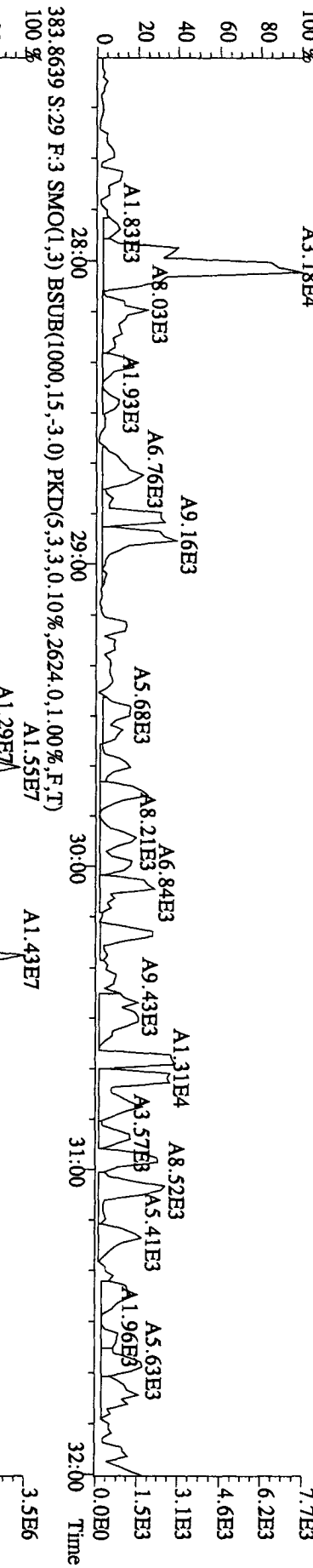
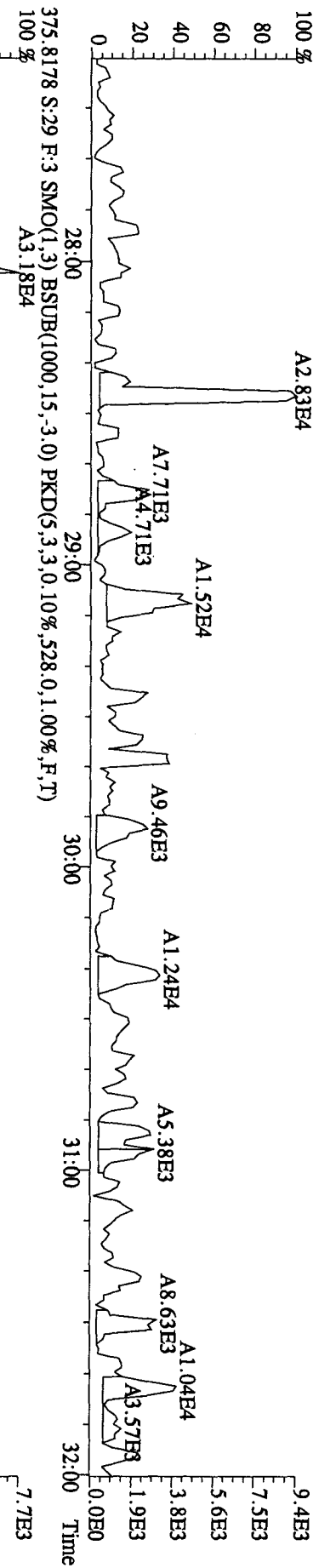
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 10:35:26 GC EI + Voltage SIR 70SE
 Sample#29 Text: L84X1-1-AA :G01260480-3MB Exp: DIOXINRES
 339.8597 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,664,0.1,0.00%,F,T)



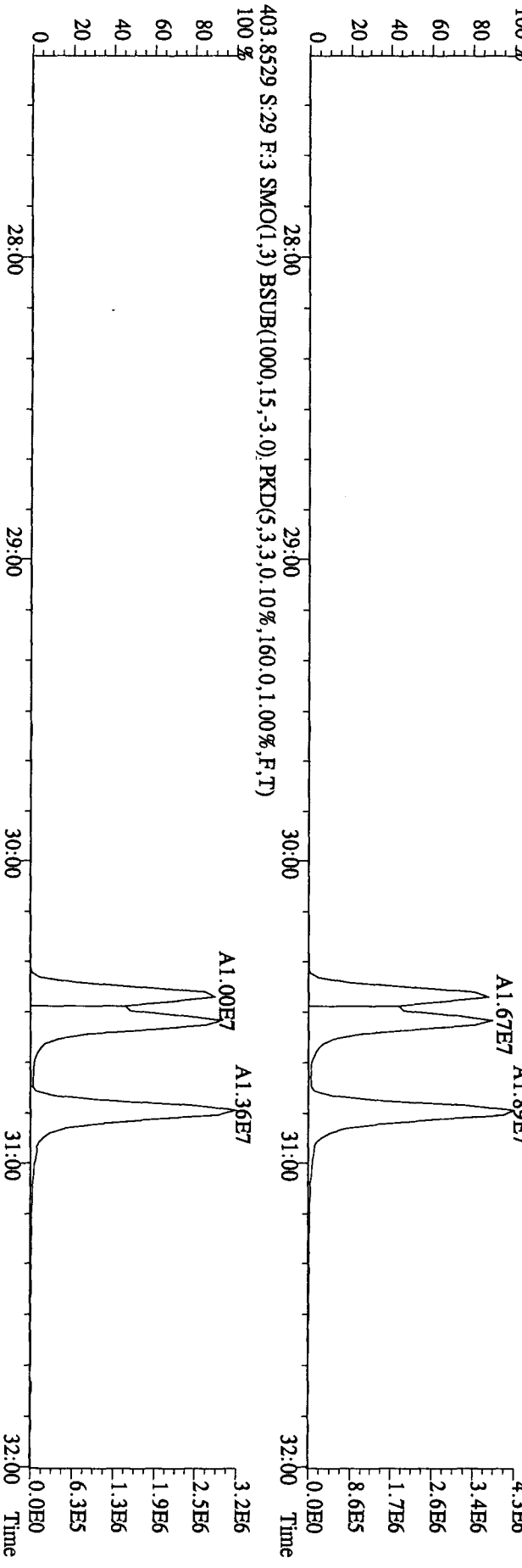
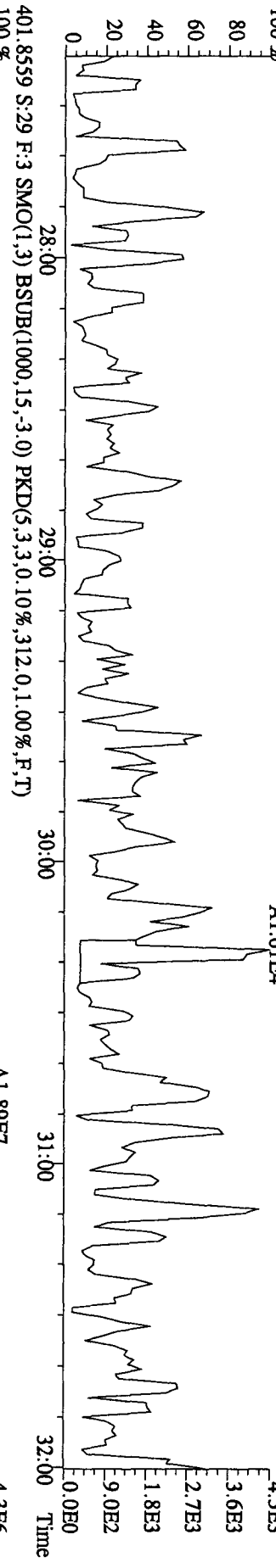
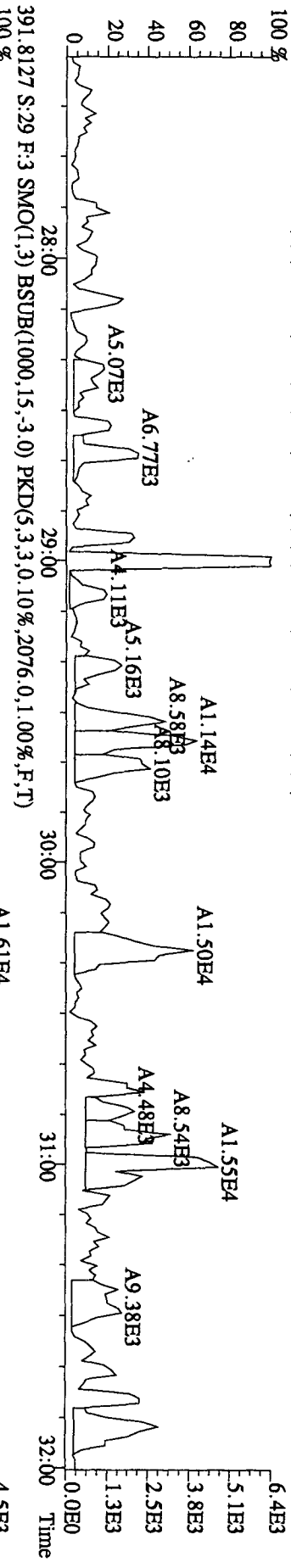
File:02NO10A1D5 #1-422 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XJ-1-AA :G0J260480-3MB Exp:DIOXINES
 355.8546 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,964.0,1.00%,F,T)



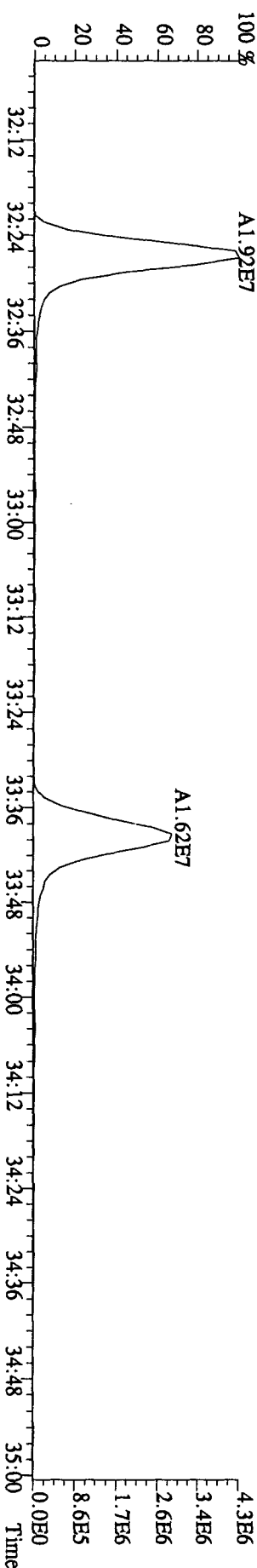
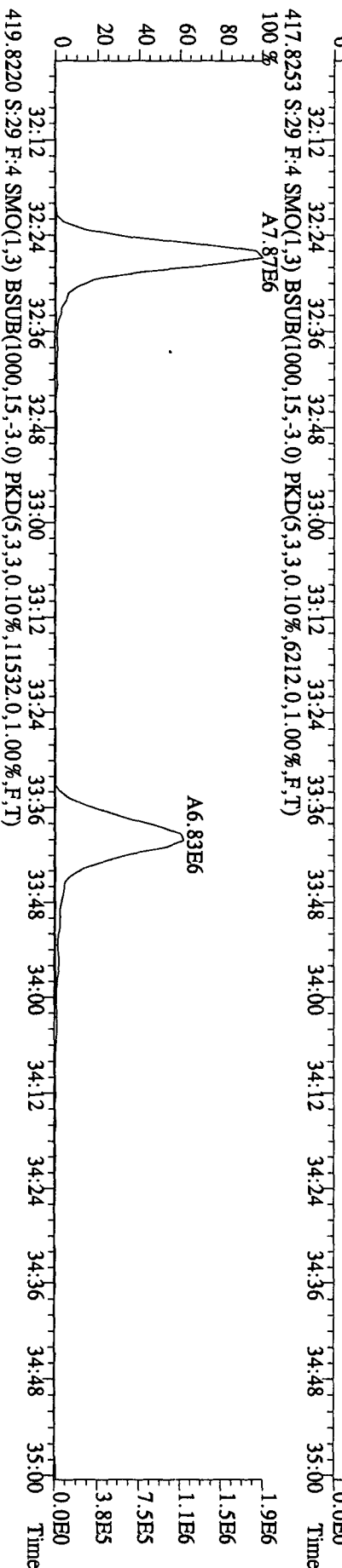
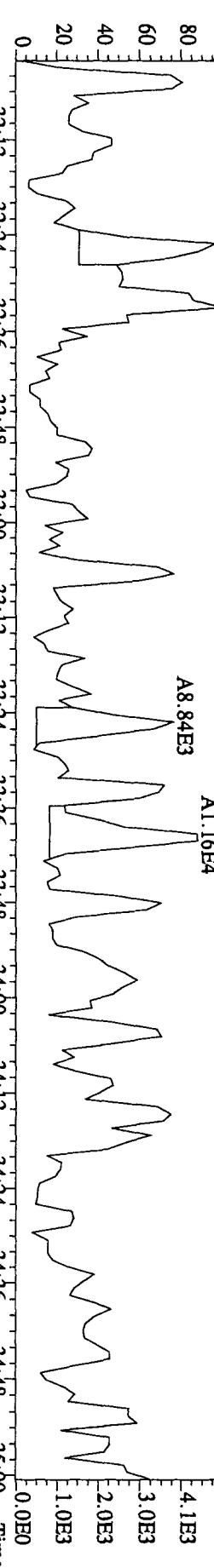
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage STR 70SE
 Sample#29 Text: L84XJ-1-AA :G0J260480-3MB Exp: DIOXINRES
 373.8208 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1420,0,1,00%,F,T)
 A2.83E4



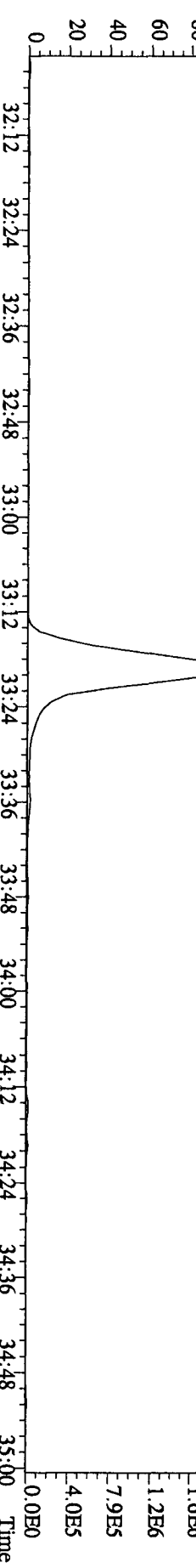
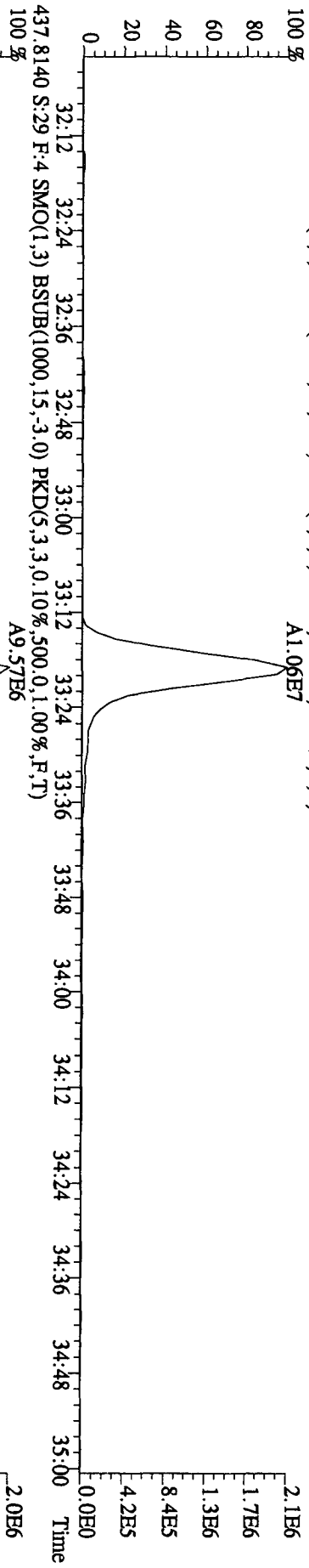
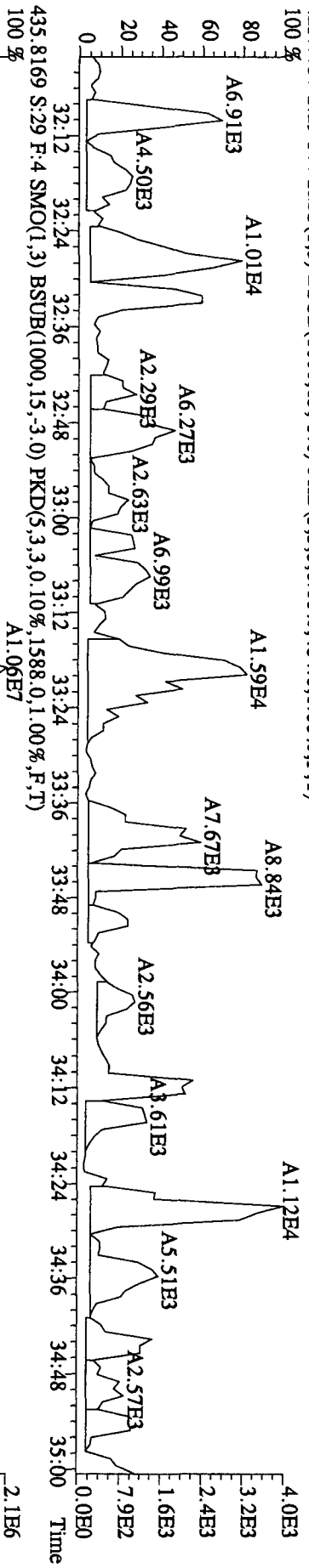
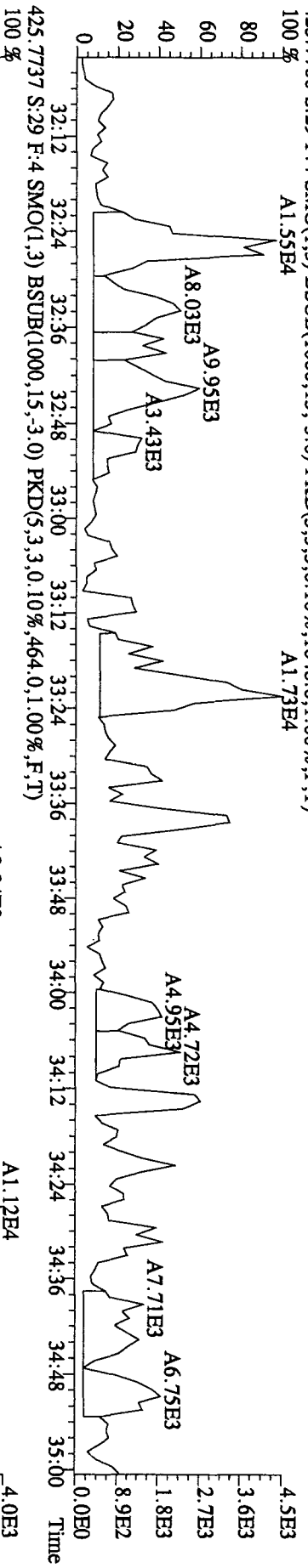
File:02N010A1D5 #1-301 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XI-1-AA :G01260480-3MB Exp:DIOXINRES
 389.8157 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



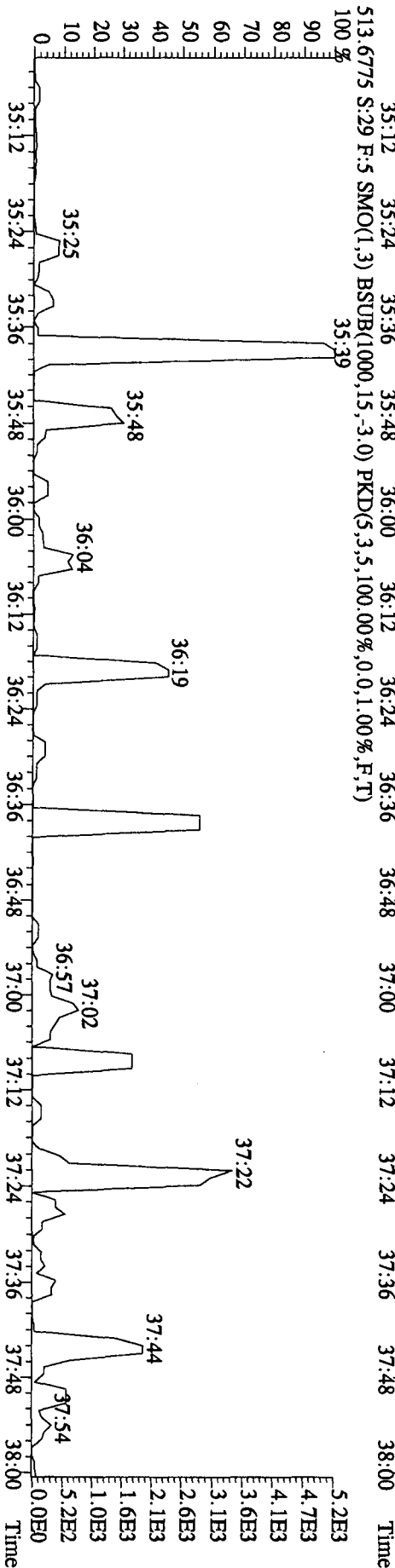
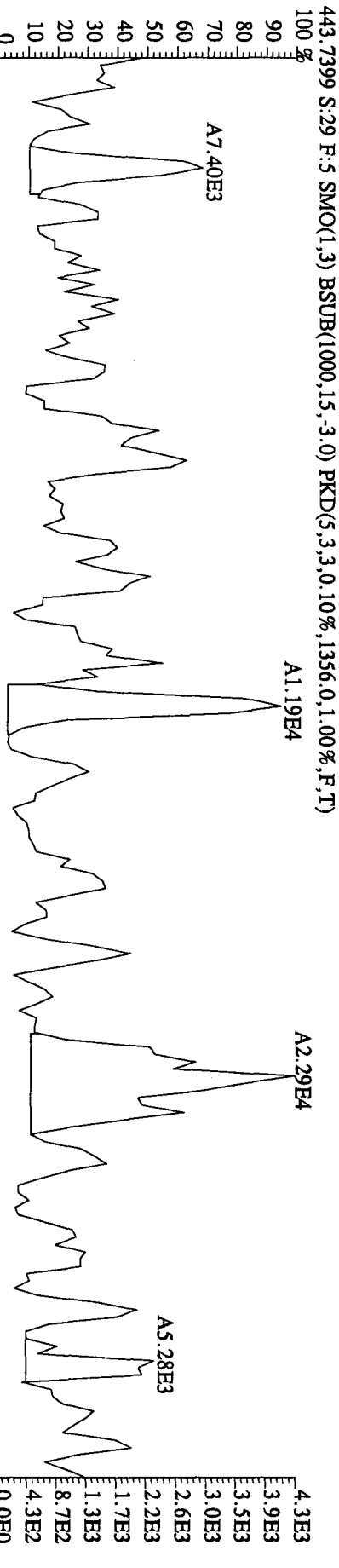
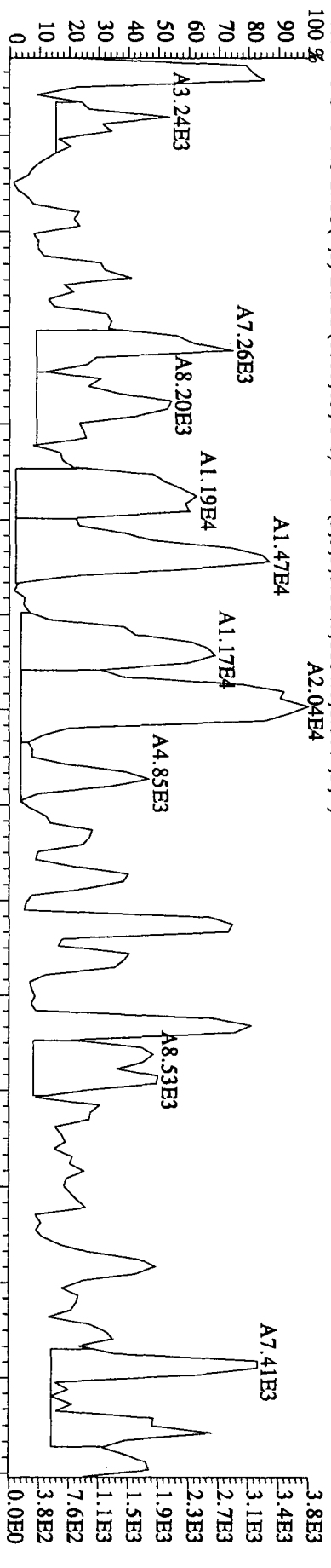
File: 02N010A1D5 #1-203 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XJ-1-AA :G0J260480-3MB Exp:DIOXINRES
 407.7818 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1816,0,1.00%,F,T)



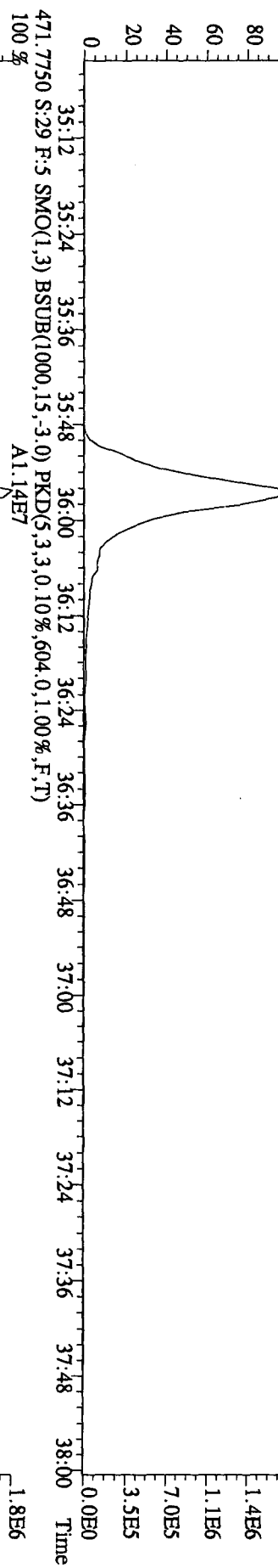
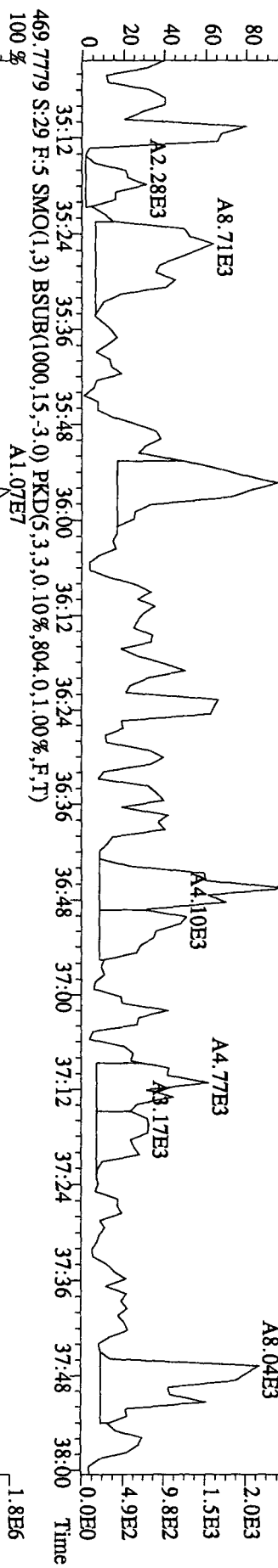
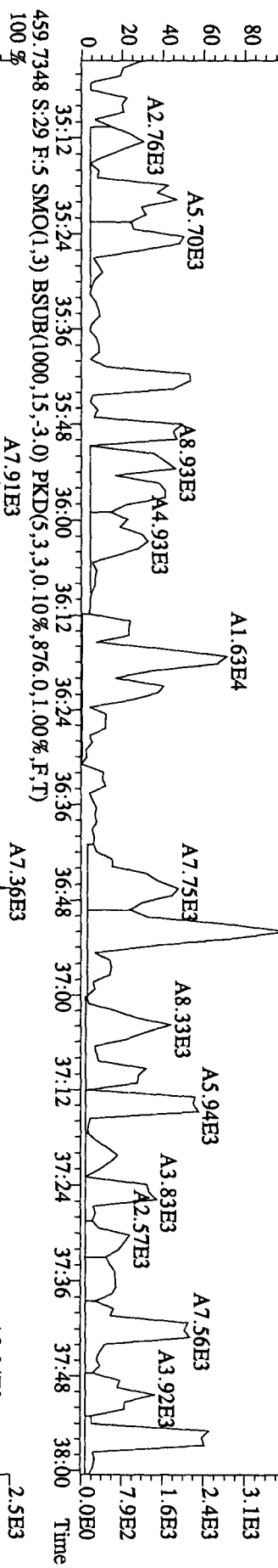
File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text: L84XI-1-AA :G01260480-3MB Exp: DIOXINRES
 423.7766 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1048,0,1,00%,F,T)
 A1.55E4 A1.73E4

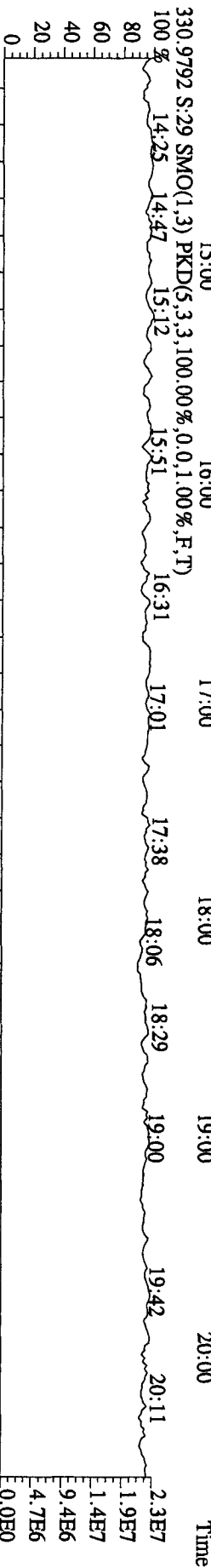
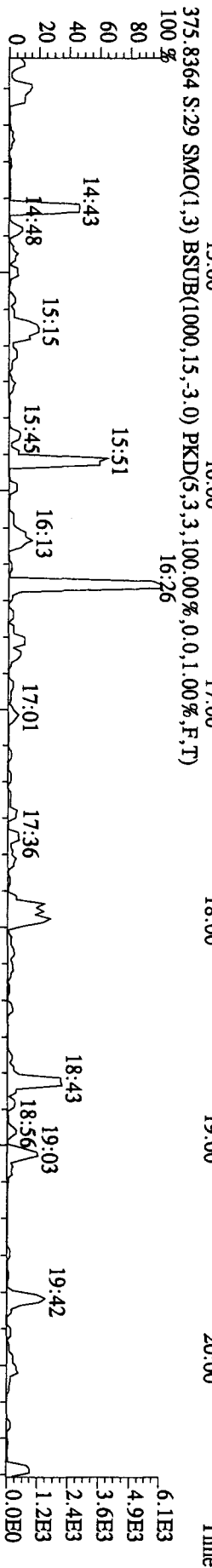
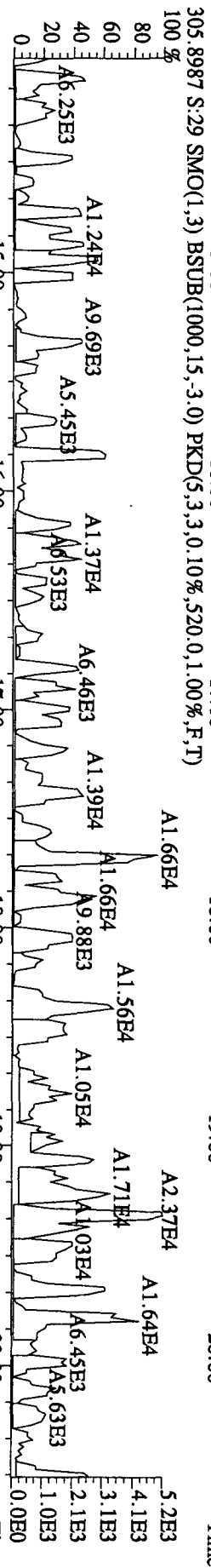
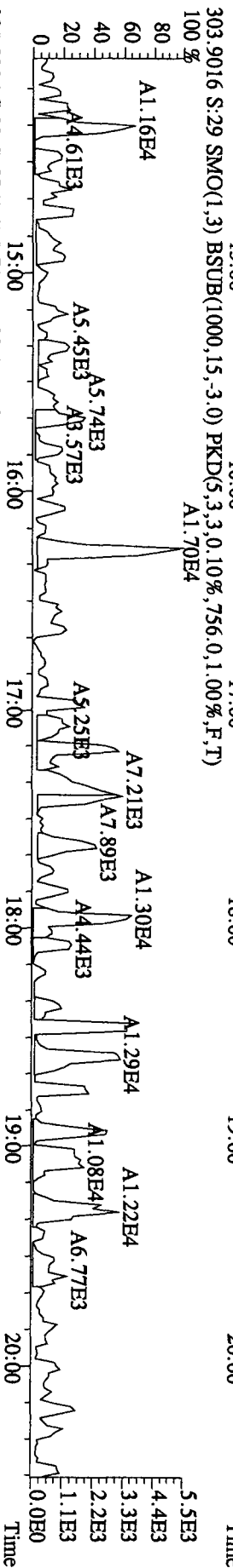
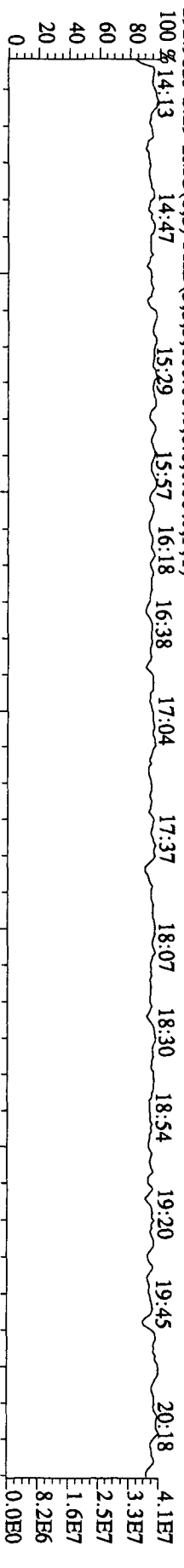


File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI + Voltage SIR 70SE
 Sample#29 Text: L84XJ1-AA :G0J260480-3MB Exp: DIOXINRES
 441.7428 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1104,0,1,00%,F,T)
 100%



File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XJ-1-AA :G0J260480-3MB Exp:DIOXINRES
 457.7377 S:29 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,312.0,1.00%,F,T)

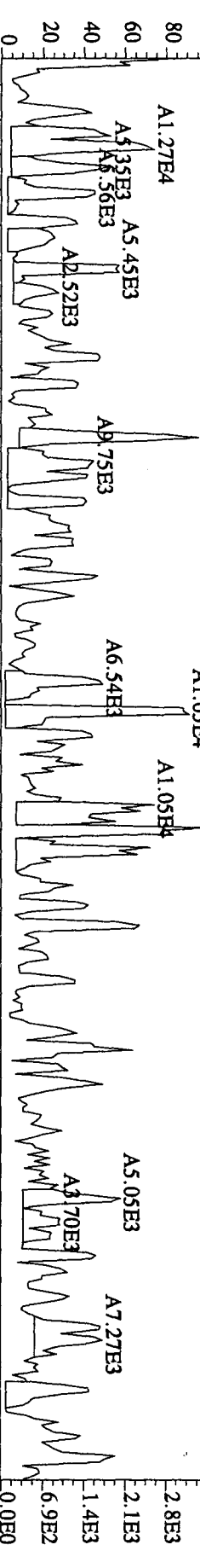




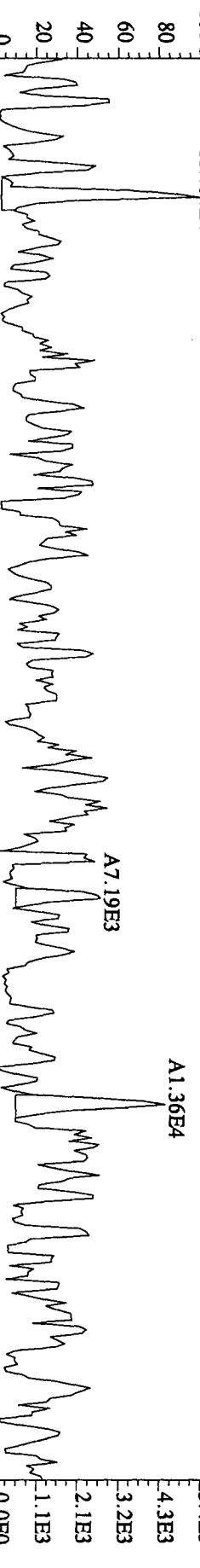
File:02NO10A1D5 #1.422 Acq: 3-NOV-2010 10:35:26 GC EI + Voltage SIR 70SE
 Sample#29 Text:L84XJ-1-AA :G0J260480-3MB Exp:DIOXINRES
 342.9792 S:29 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 20:56 21:34 22:27 22:52 23:45 24:10 24:35 24:56 25:28 25:59 26:36 27:00



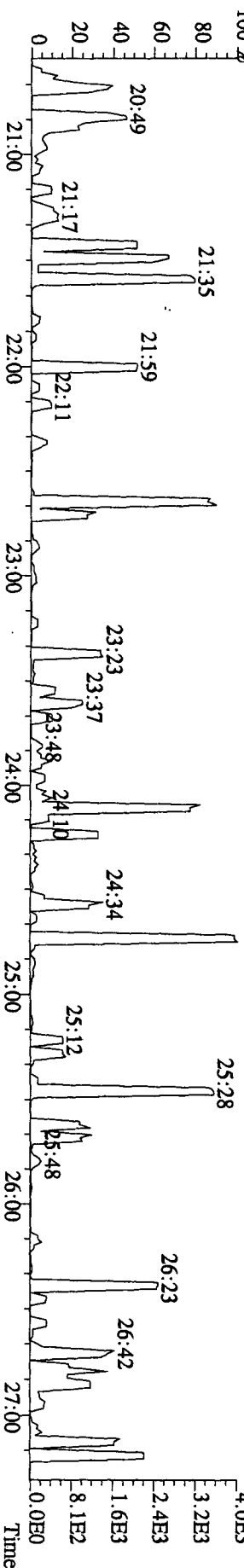
339.8597 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)
 100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00

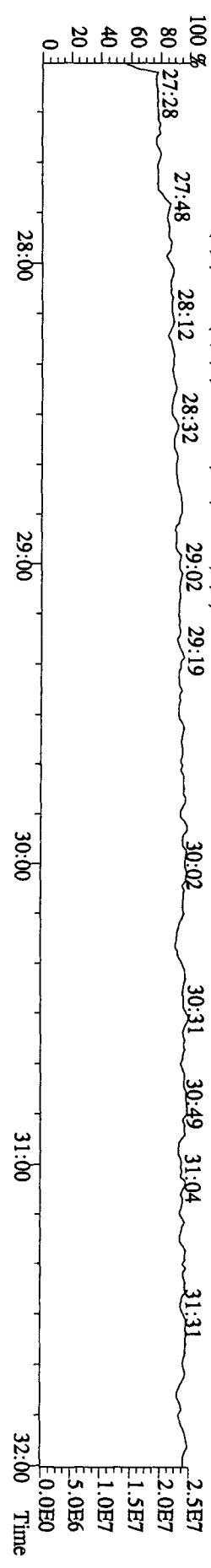
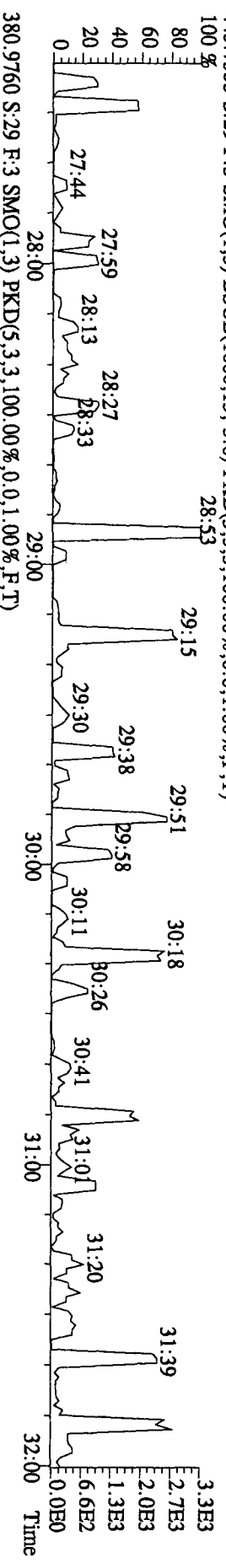
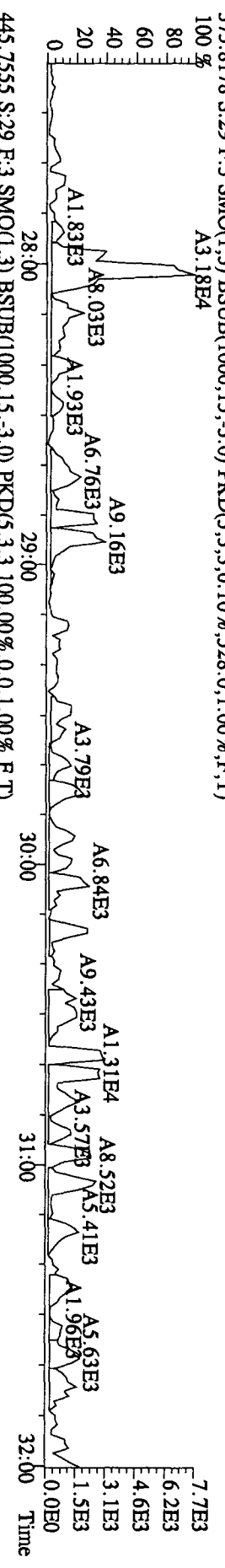
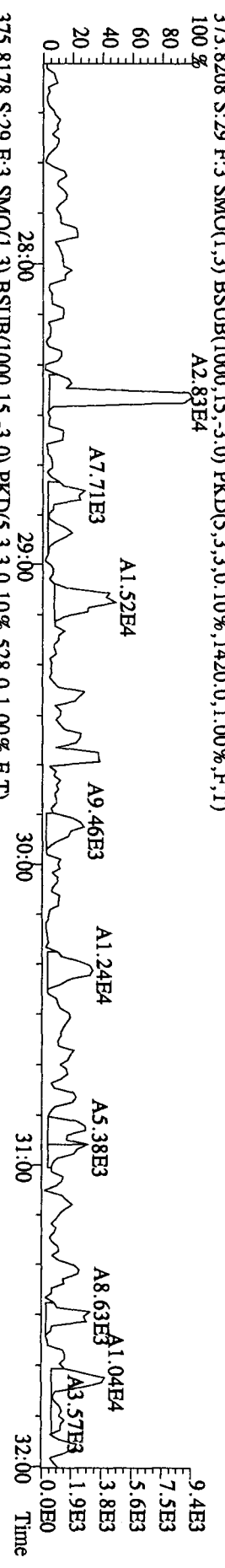
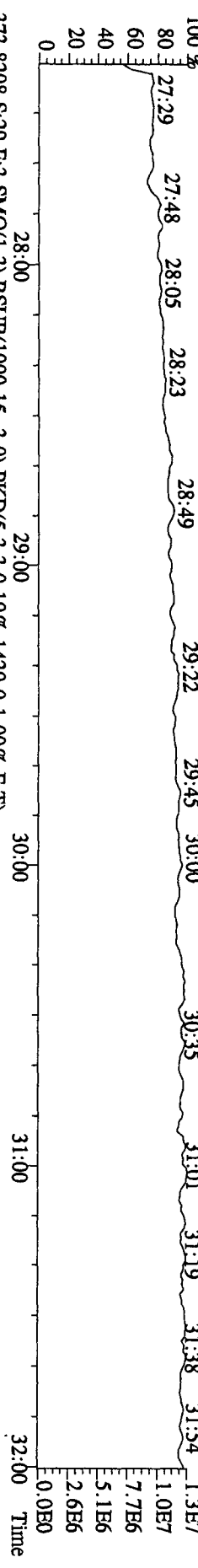


341.8567 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2132.0,1.00%,F,T)
 100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00



409.7974 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00



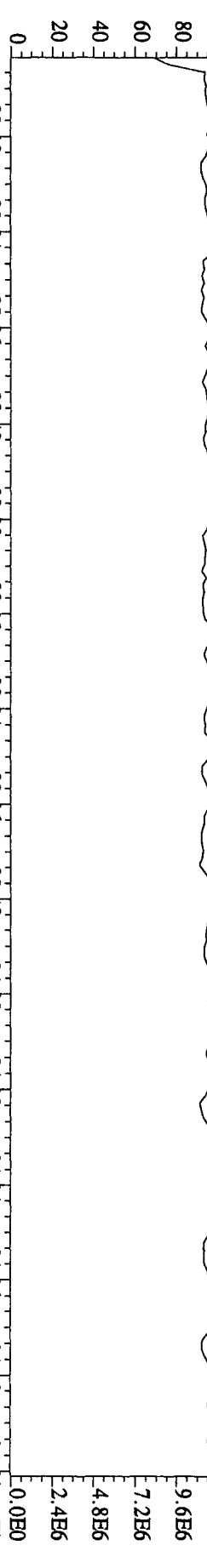


File:02NO10A1D5 #1-203 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE

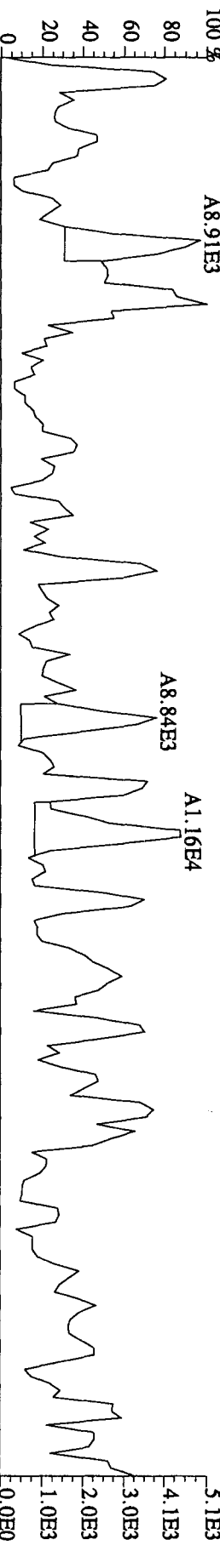
Sample#29 Text:L84X1-1-AA :G01260480-3MB Exp:DIOXINRES

430.9728 S:29 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

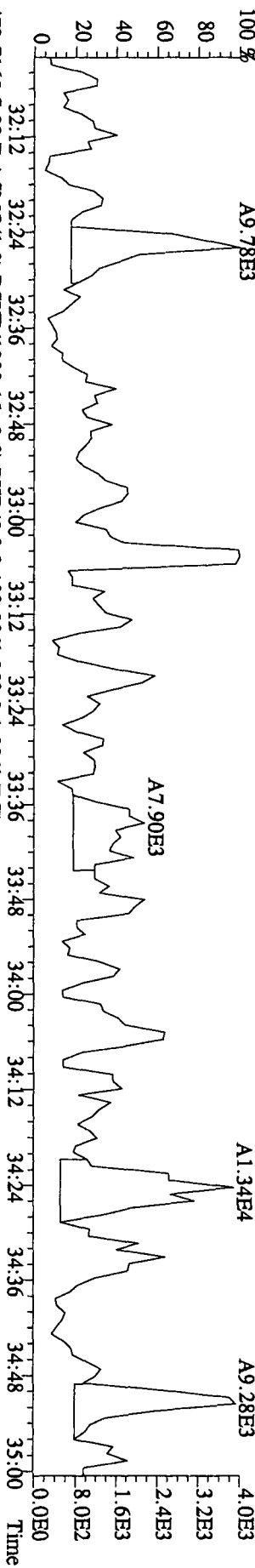
100% 32:09 32:22 32:40 32:59 33:15 33:29 33:48 33:58 34:11 34:21 34:38 34:49



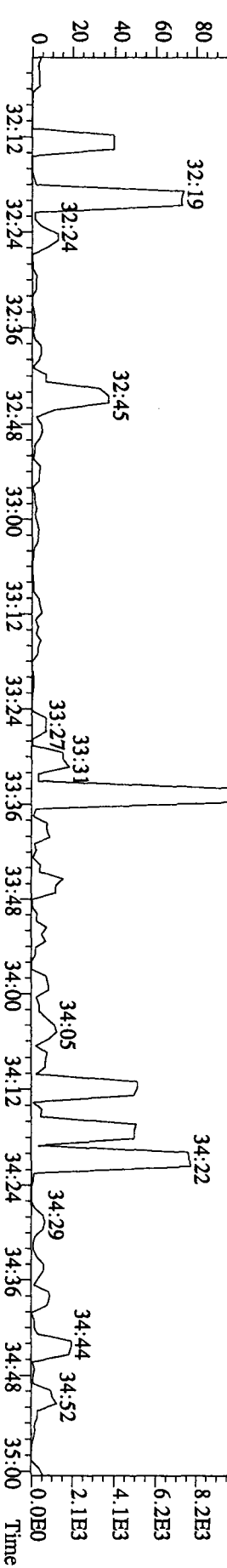
407.7818 S:29 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1816,0.1,0.0%,F,T)



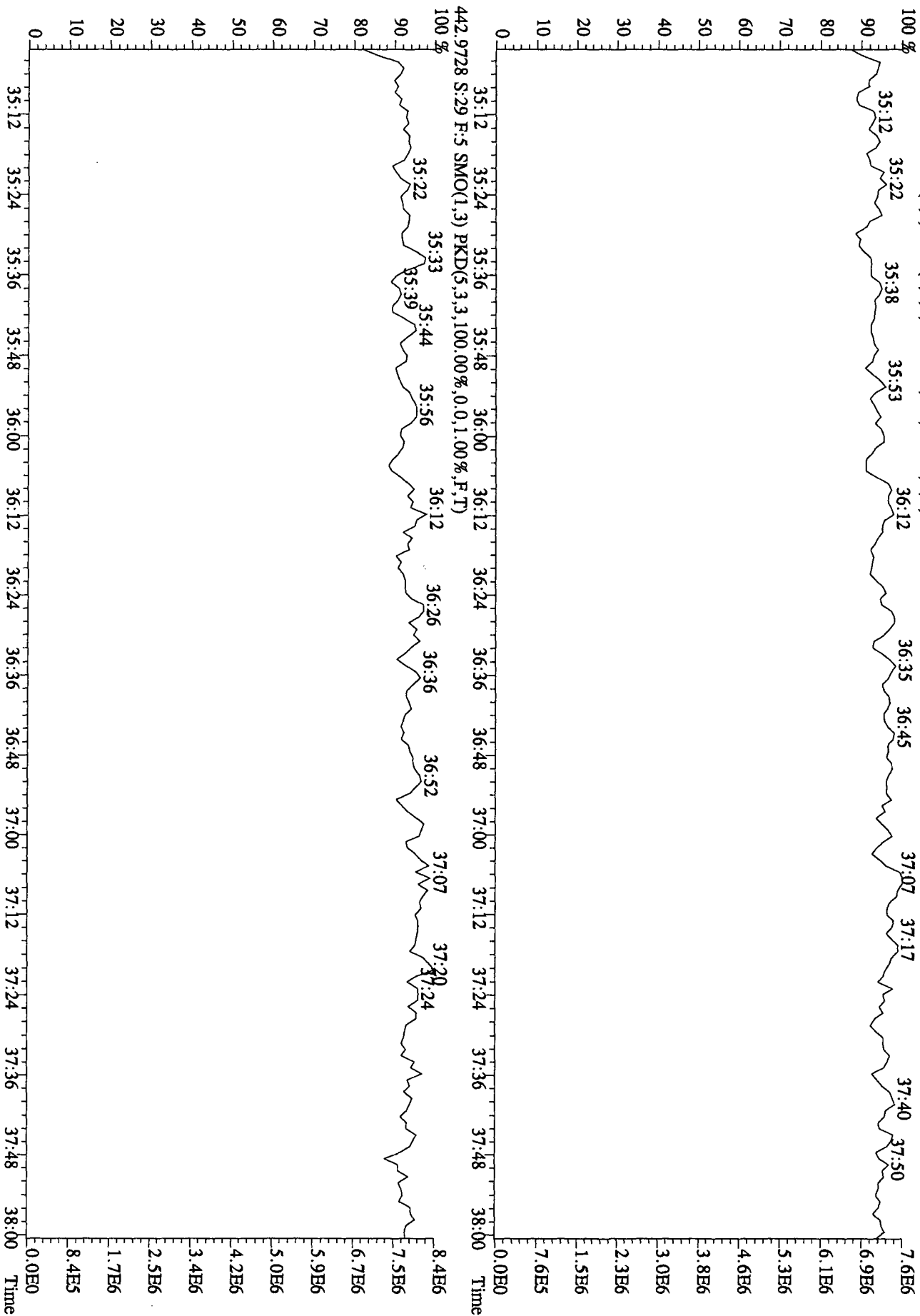
409.7789 S:29 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1304,0.1,0.0%,F,T)



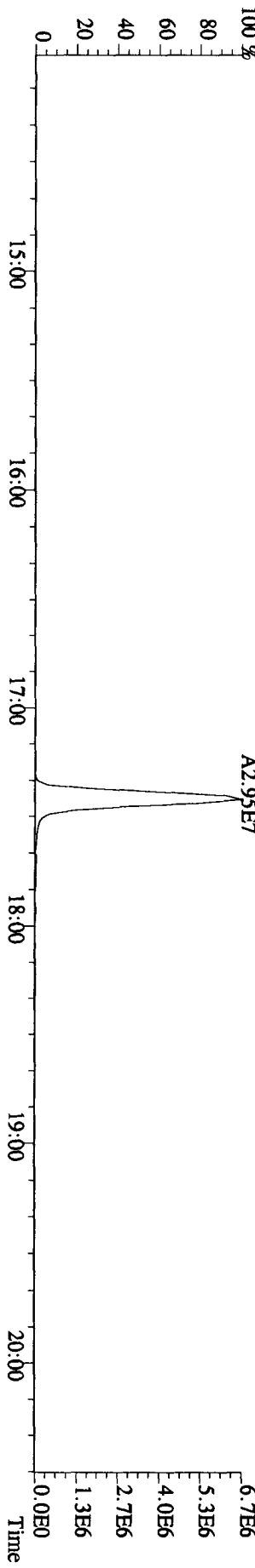
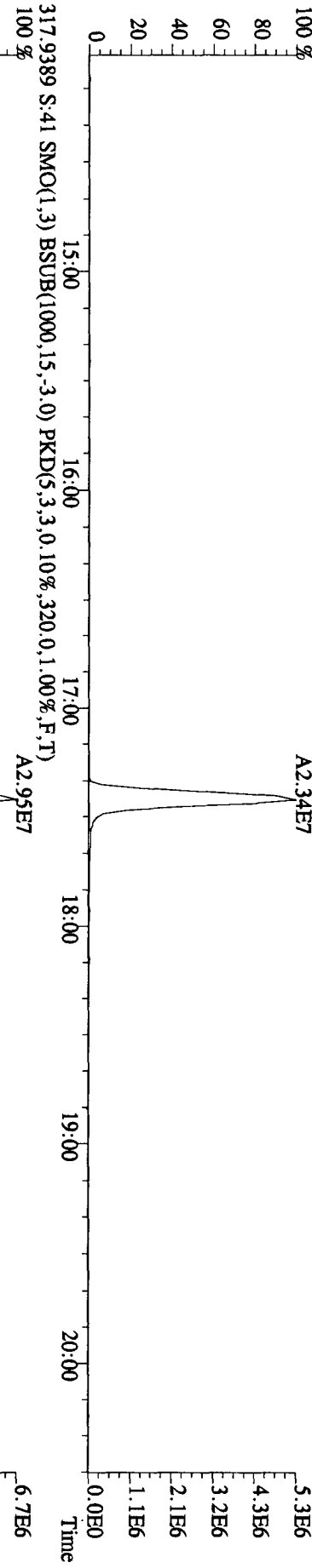
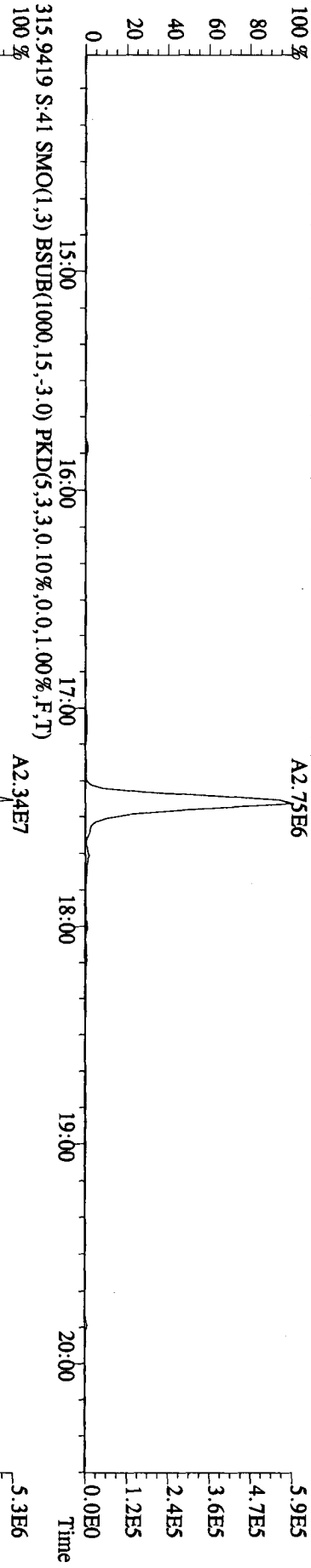
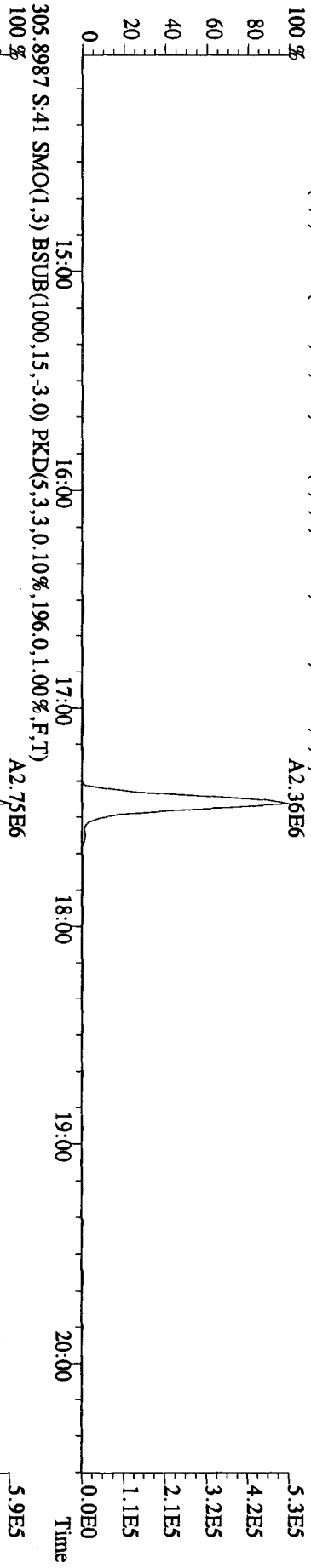
479.7165 S:29 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,352,0.1,0.0%,F,T)



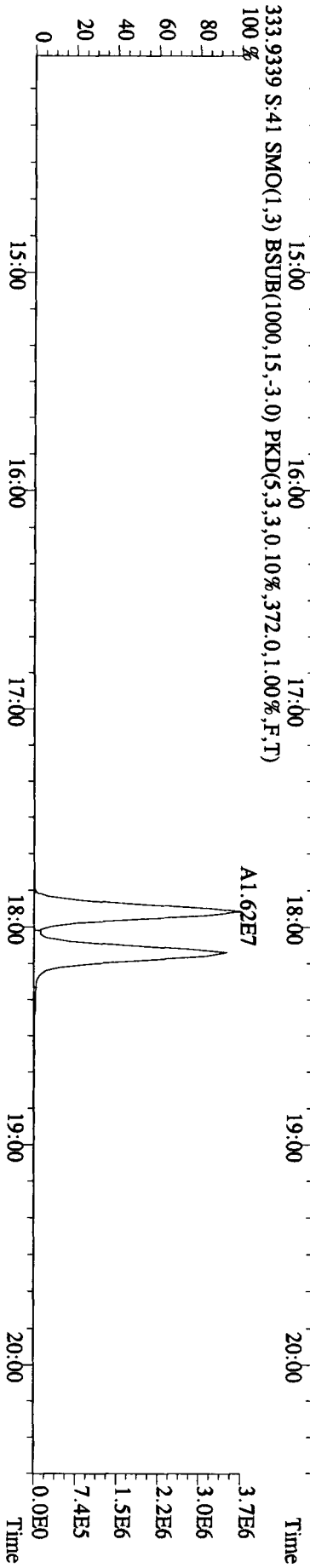
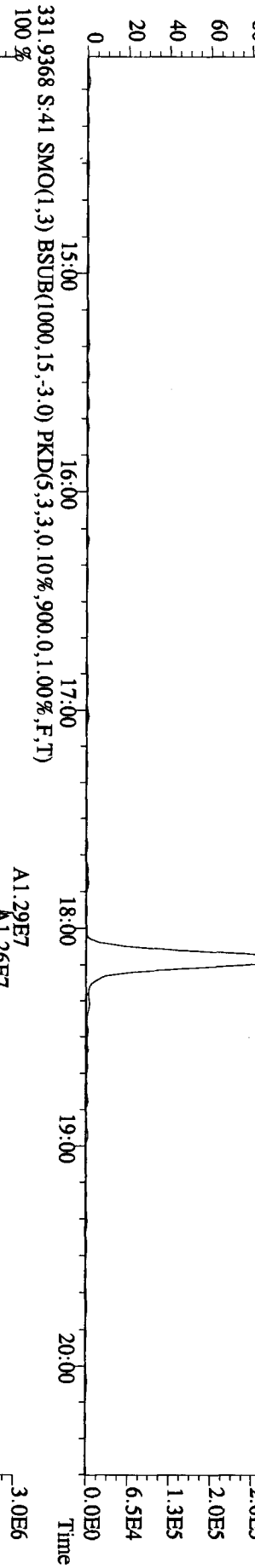
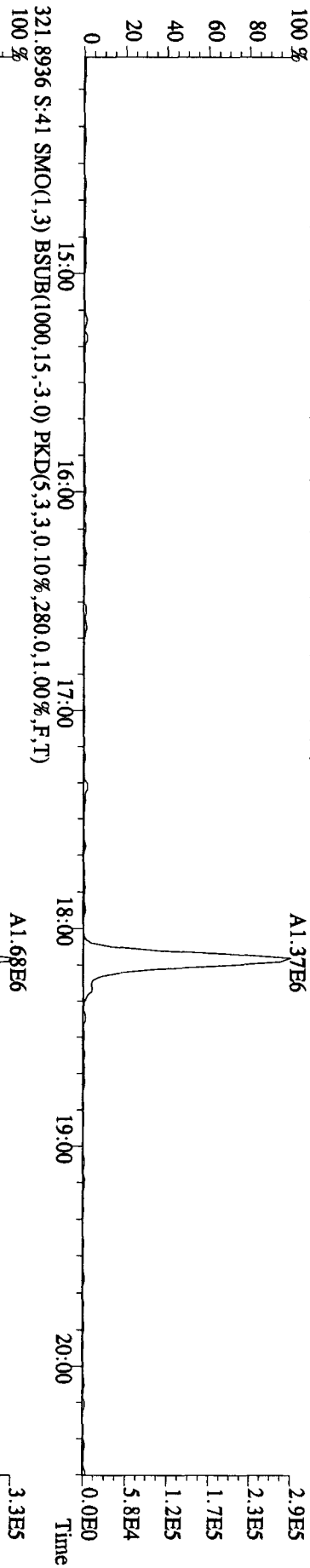
File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 10:35:26 GC EI+ Voltage SIR 70SE
 Sample#29 Text:L84XI-1-AA :G0J260480-3MB Exp:DI0XINRES
 454.9728 S:29 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



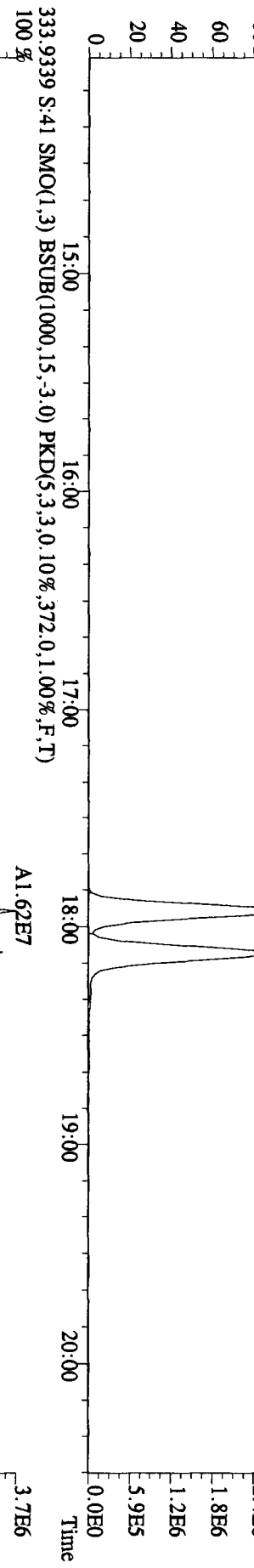
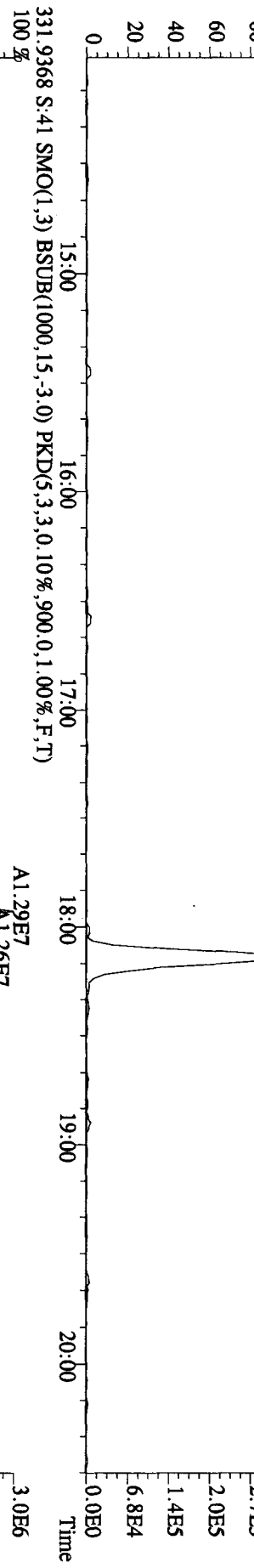
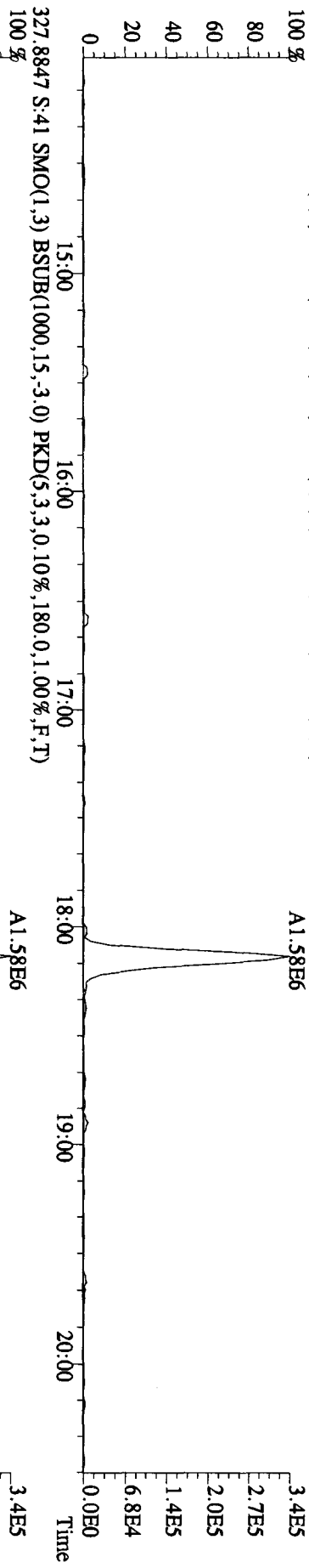
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
303.9016 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1140,0,1,00%,F,T)
100%



File:02NO10A1D5 #1-382 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text:ST1102E :CS3 10DXN505 Exp:DIOXINRES
 319.8965 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.344,0,1.00%,F,T)
 100 %



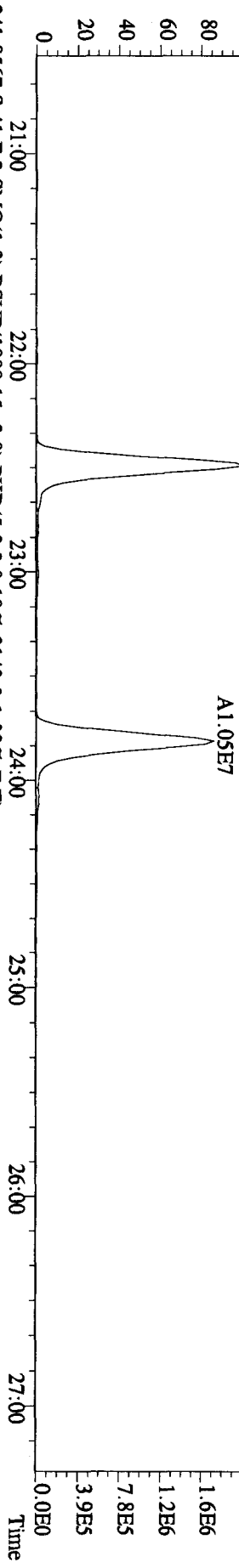
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 327.8847 S:41 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,180,0,1,00%,F,T)
 100 %



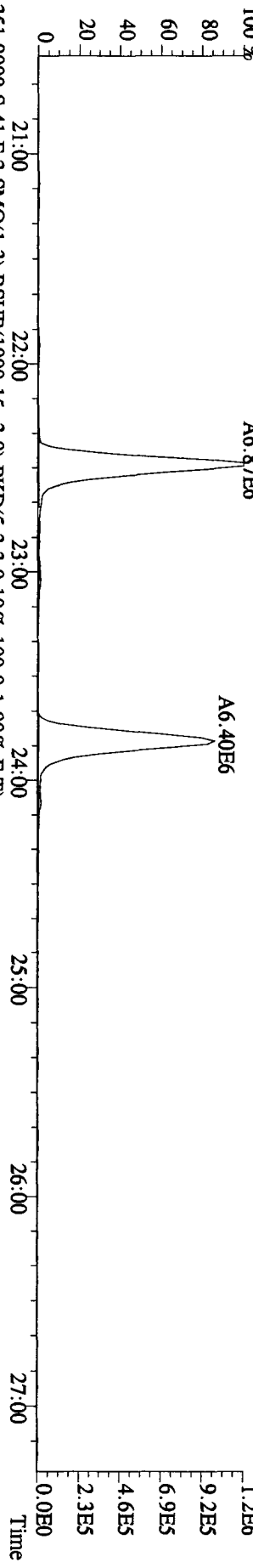
File: 02NO10A1D5 #1-423 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE

Sample#41 Text: ST1102E :CS3 10DXN505 Exp:DIOXINRES

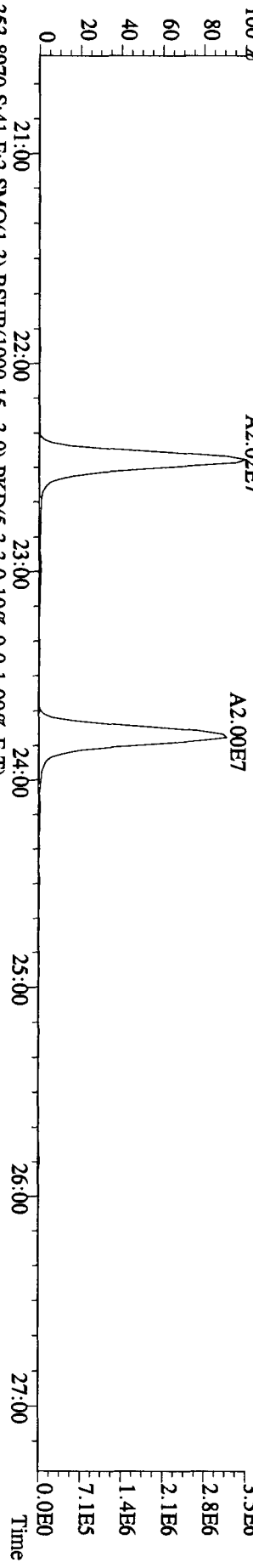
339.8597 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)



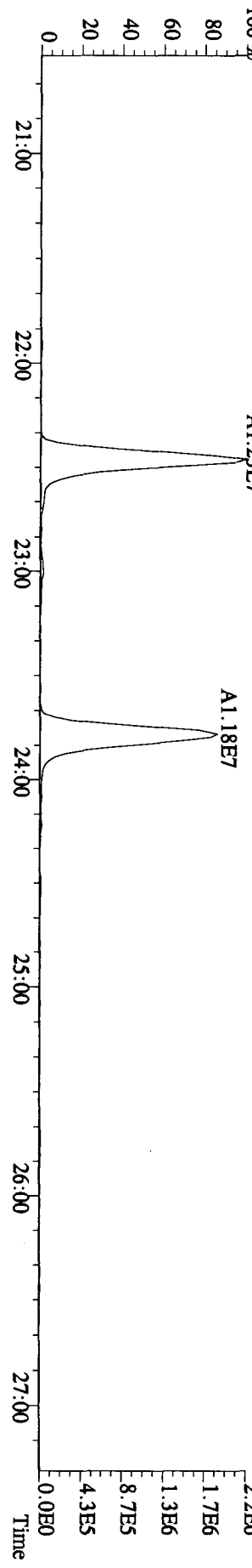
341.8567 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2140.0,1.00%,F,T)



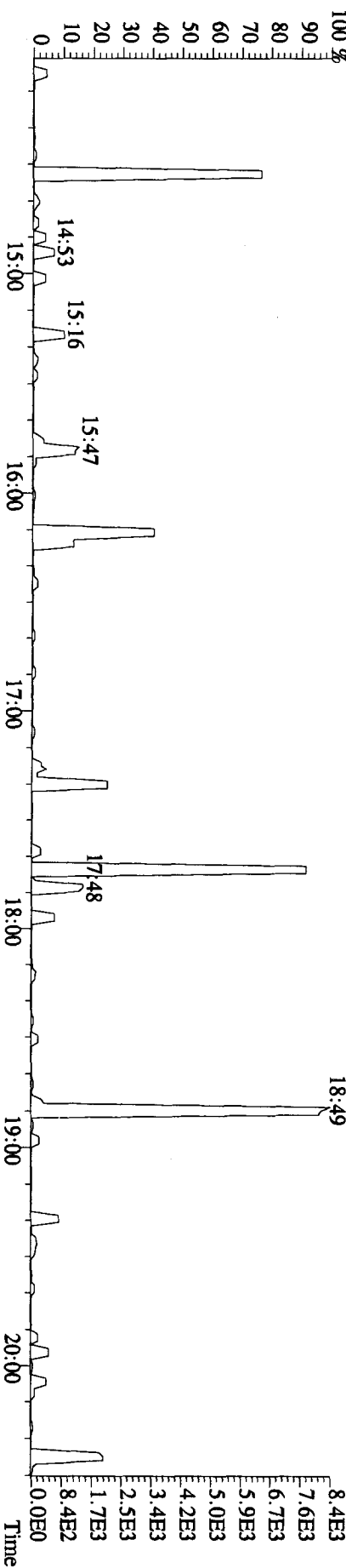
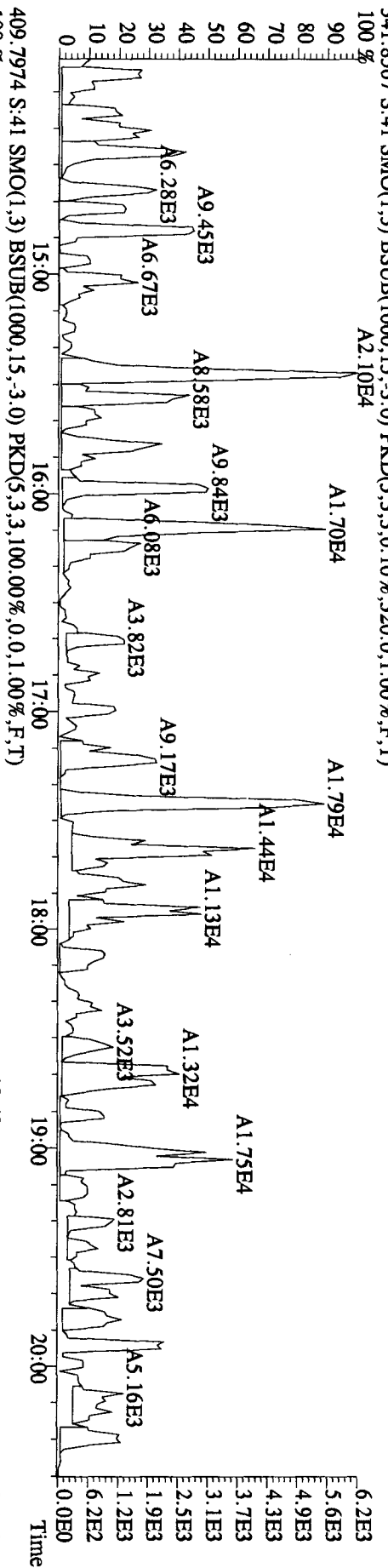
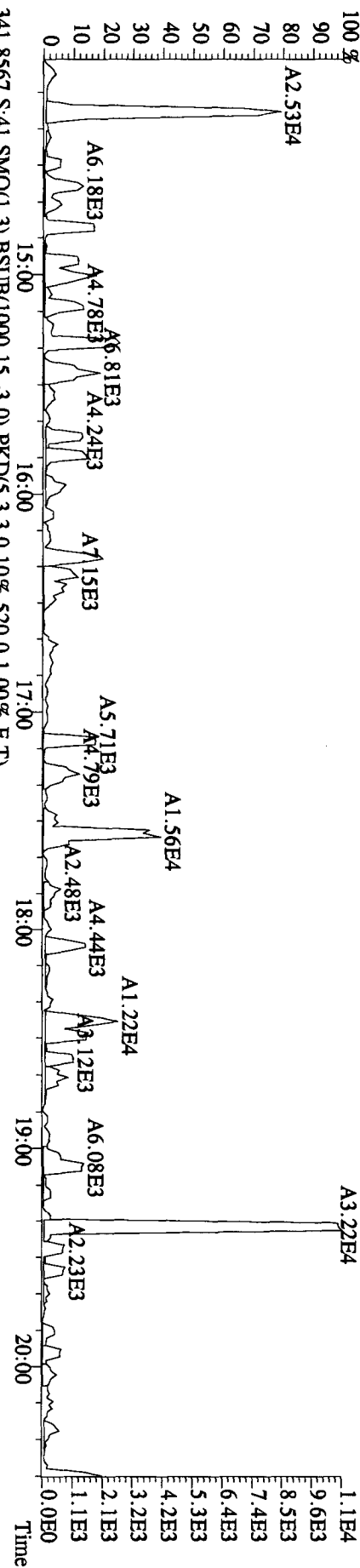
351.9000 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



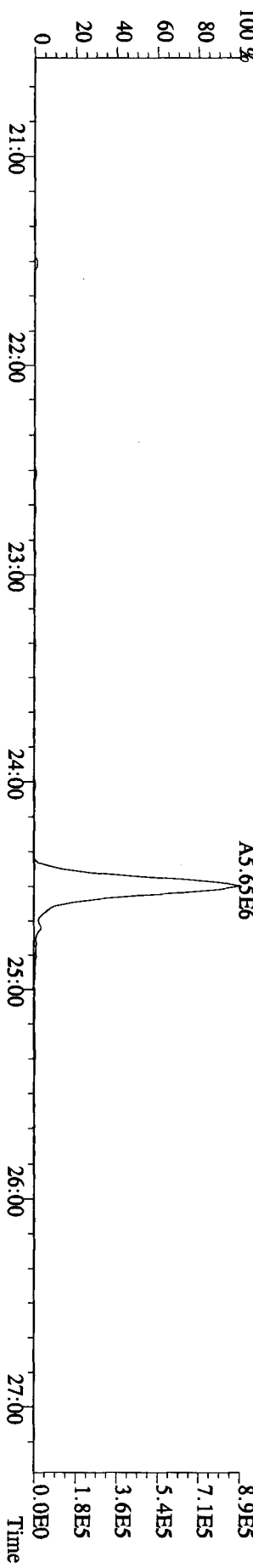
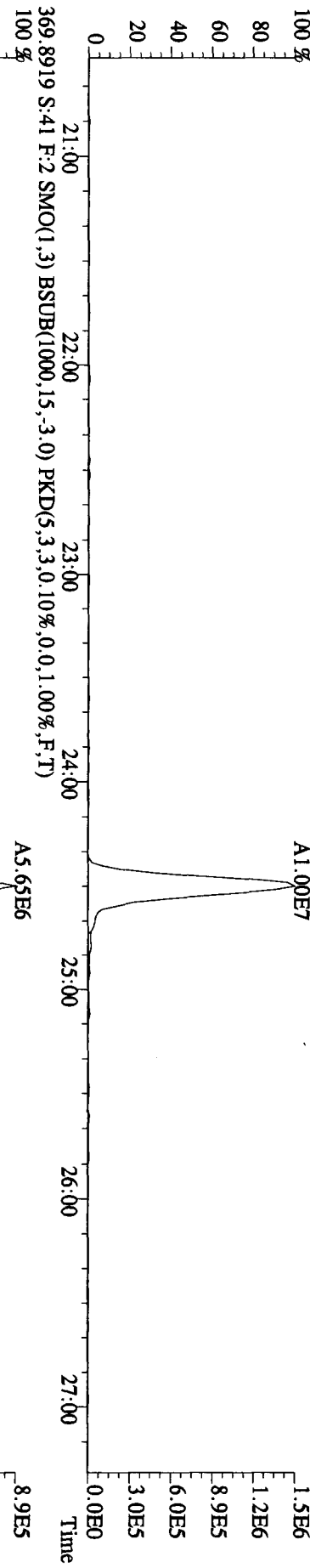
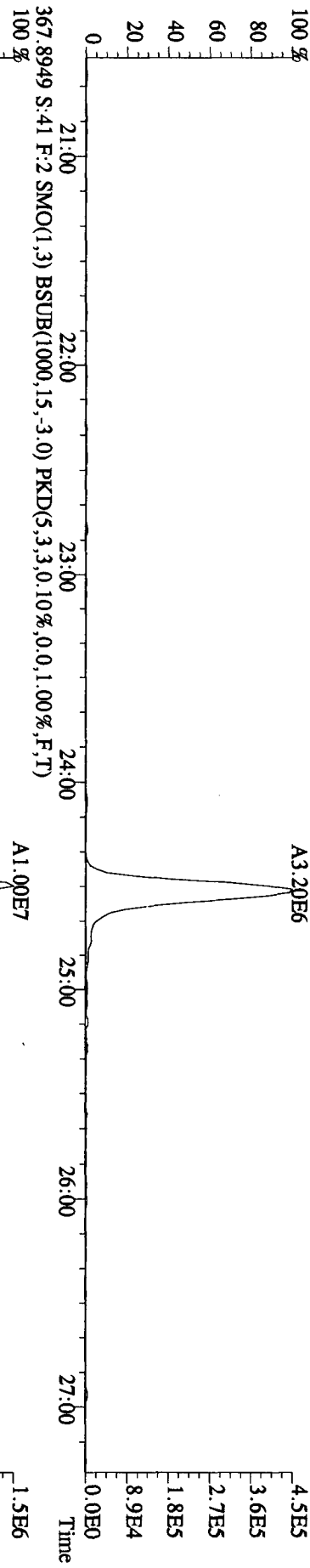
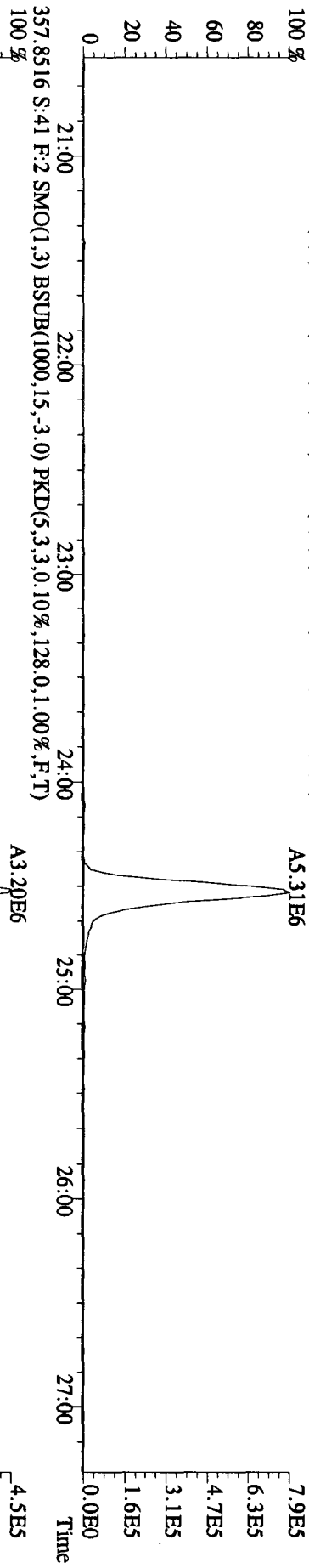
353.8970 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,0.0,1.00%,F,T)



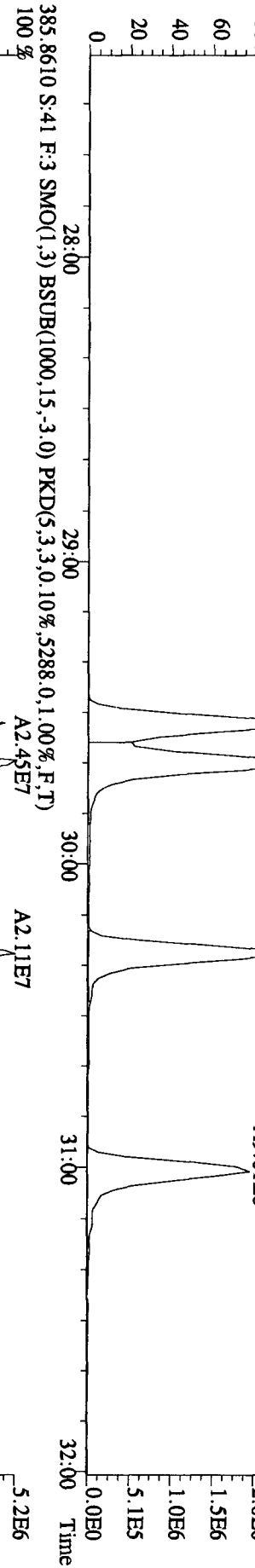
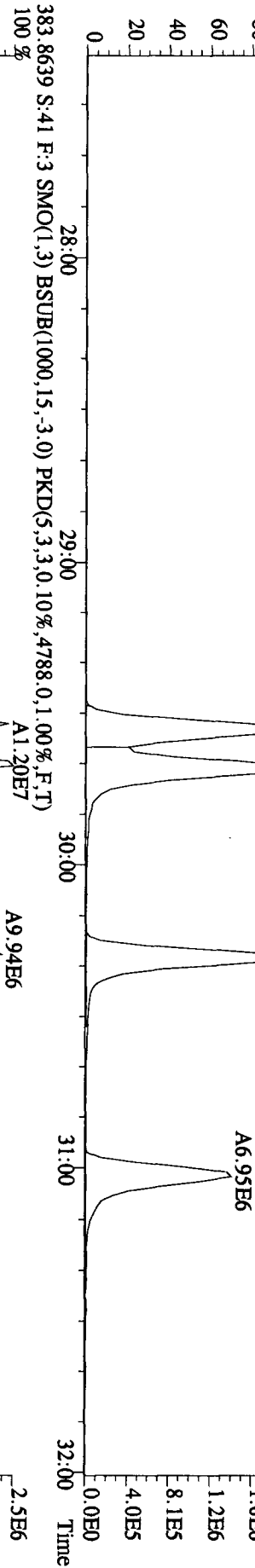
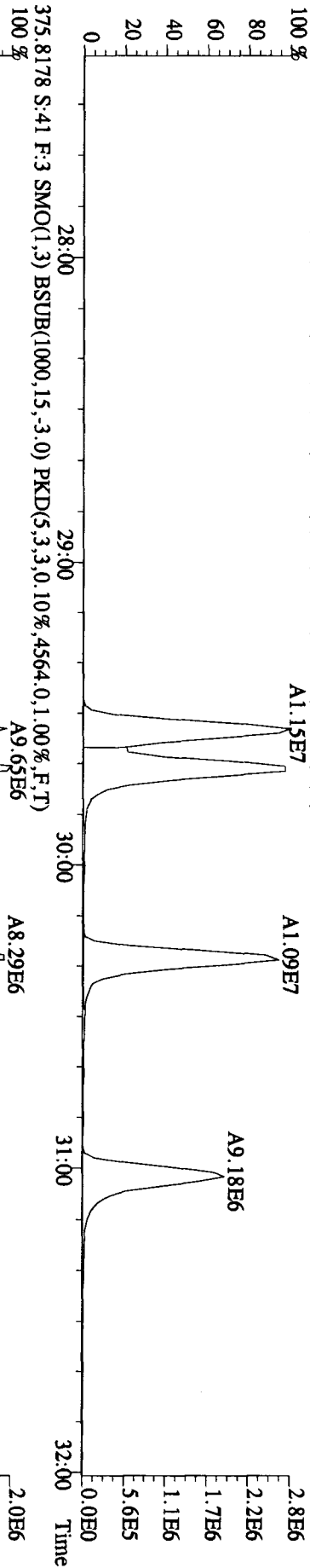
File: 02NO10A1D5 #1-382 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXNS05 Exp: DIOXINRES
 339 8597 S:41 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,276.0,1.00%,F,T)



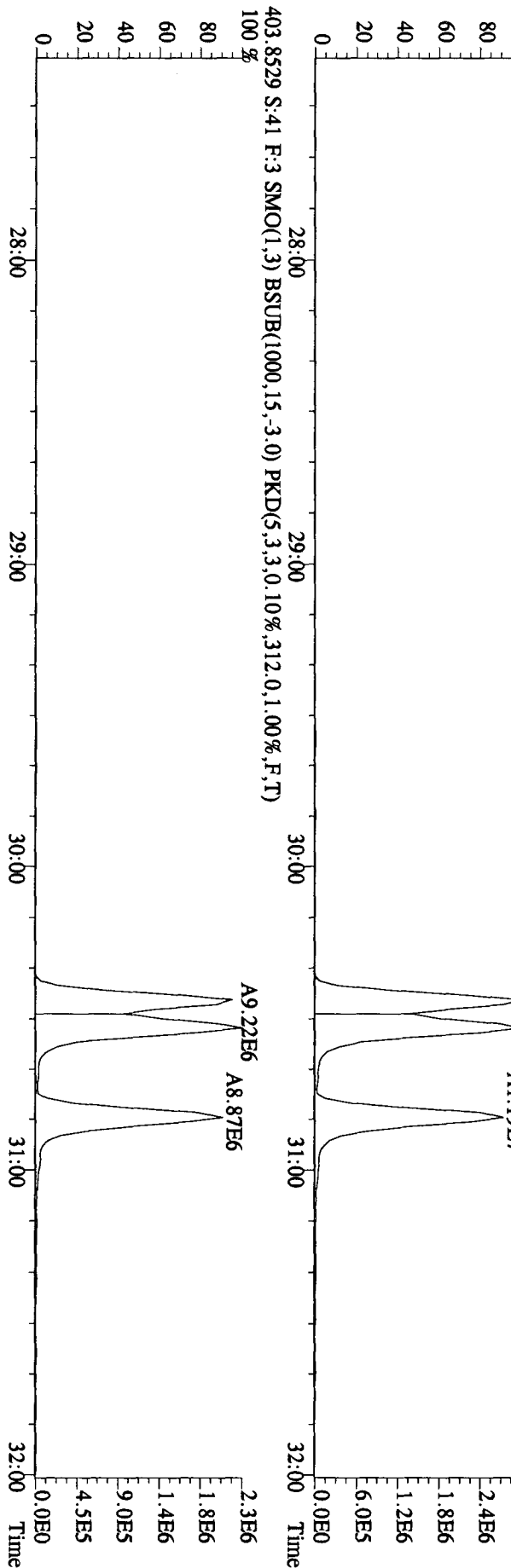
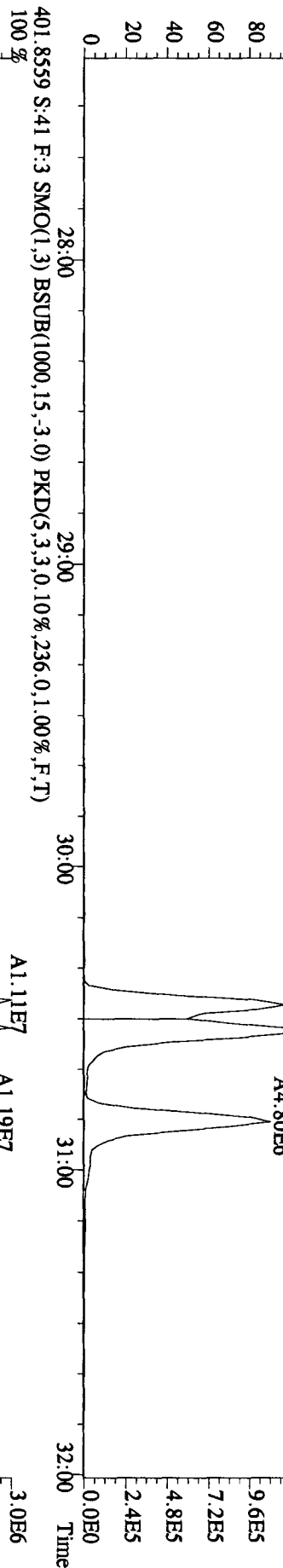
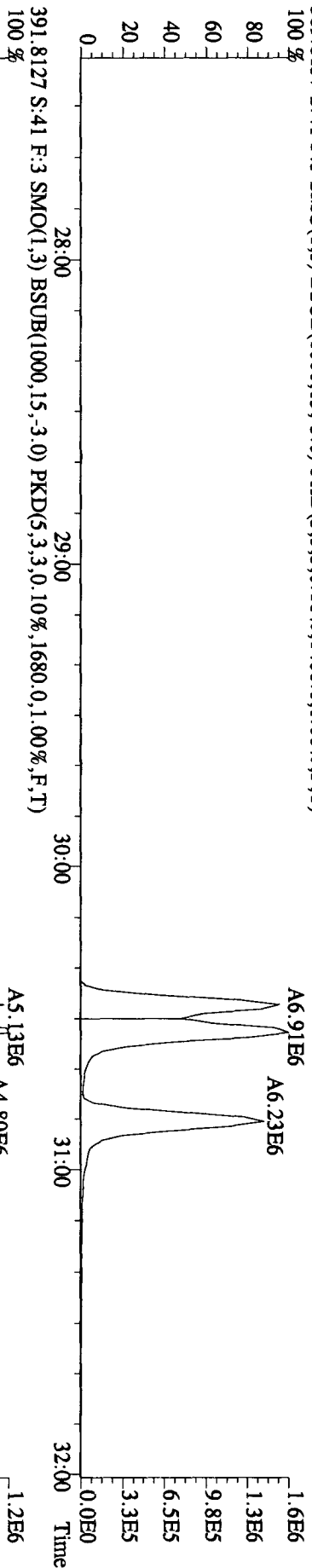
File: 02NO10A1D5 #1-423 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 355.8546 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)
 100%



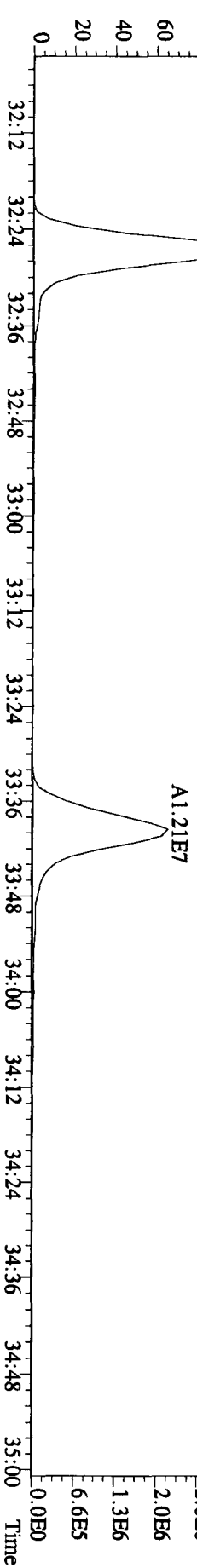
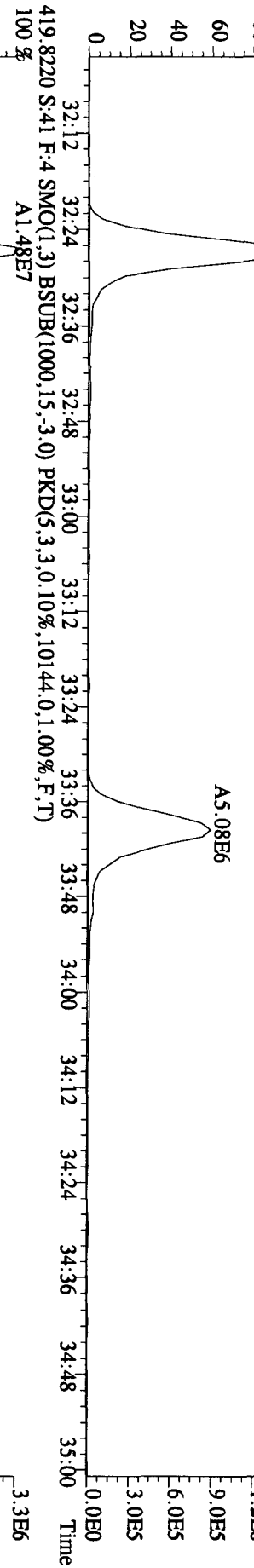
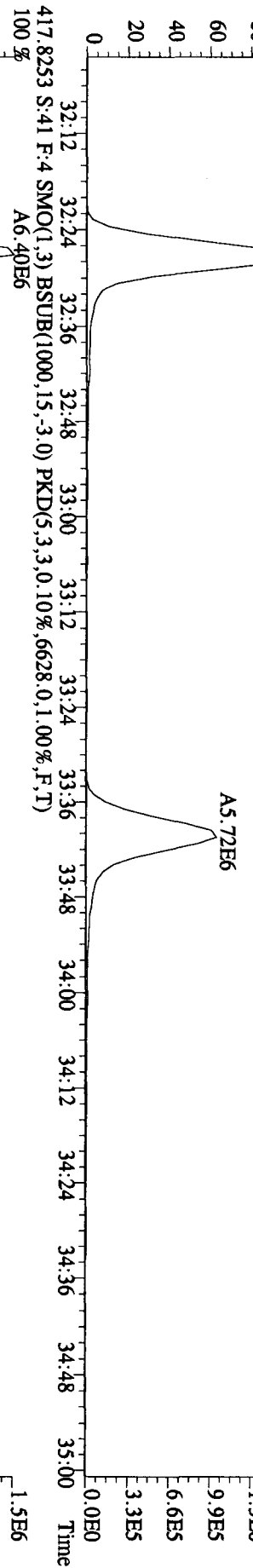
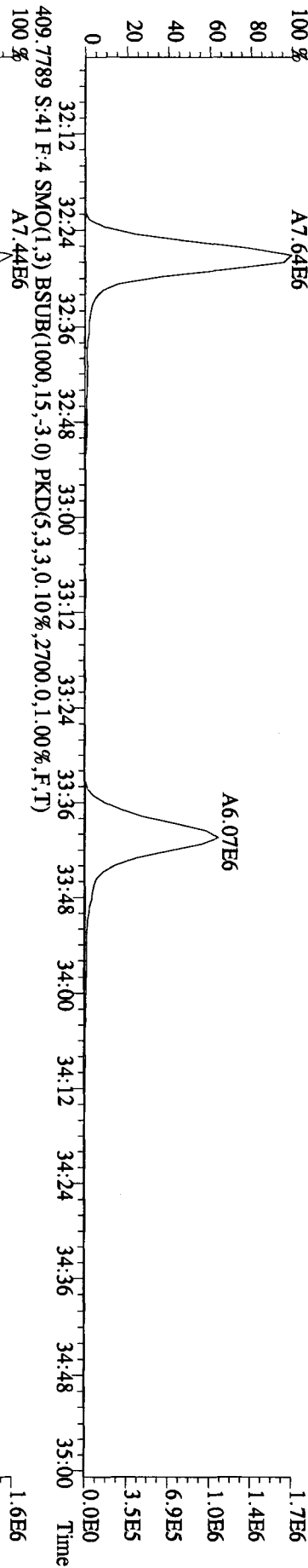
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 373.8208 S:41 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5140,0.1,0.0%,F,T)
 100%



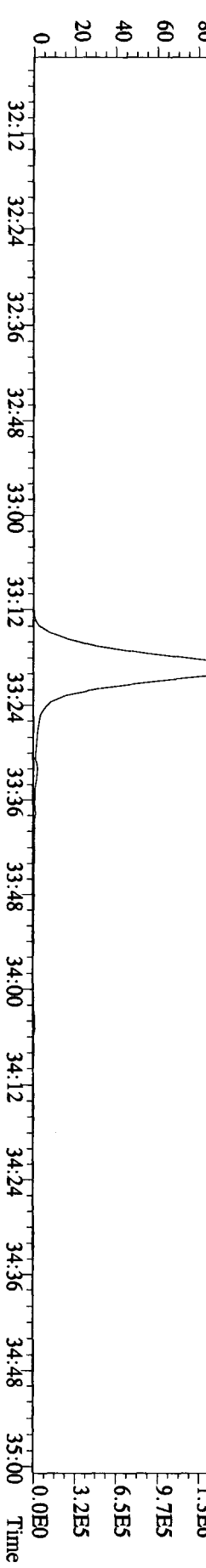
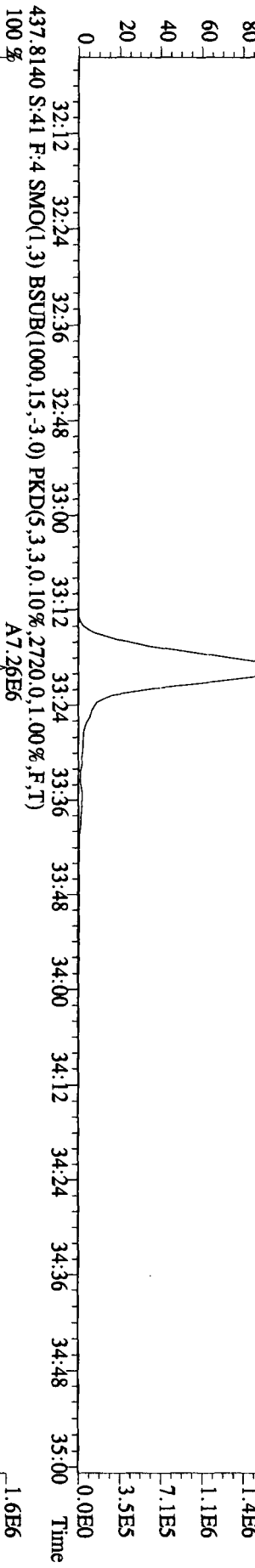
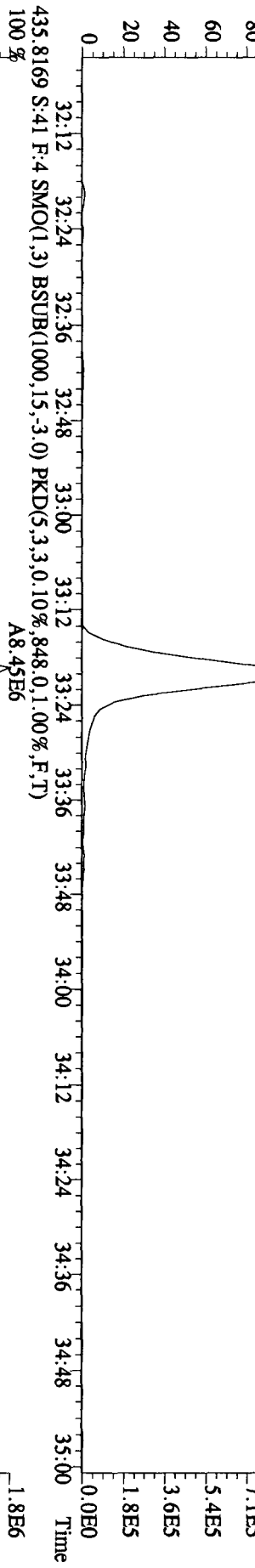
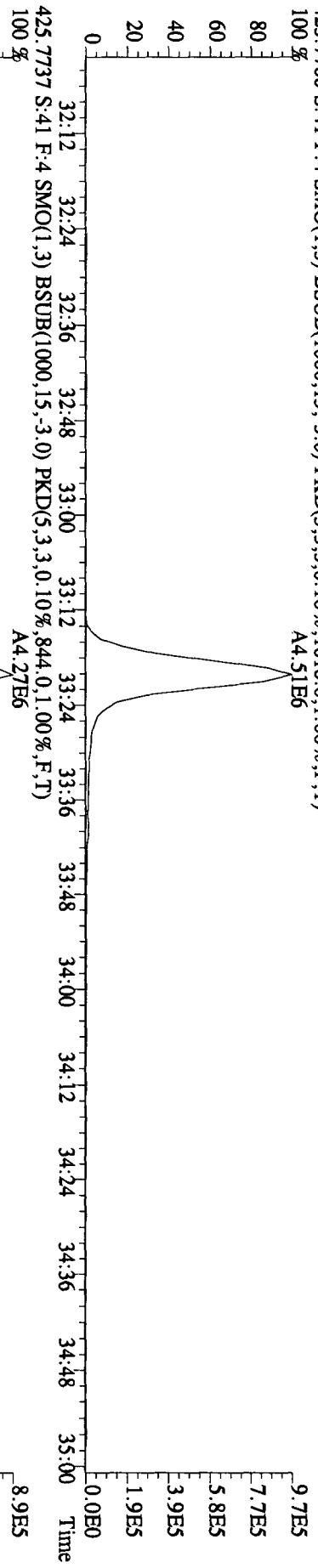
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXNS05 Exp: DIOXINRES
 389.8157 S:41 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1400,0,1,00%,F,T)



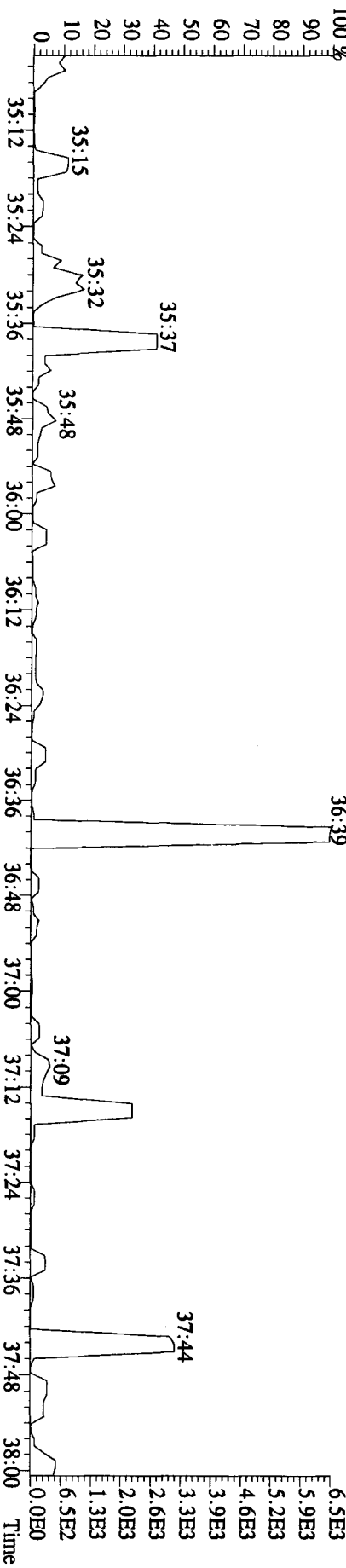
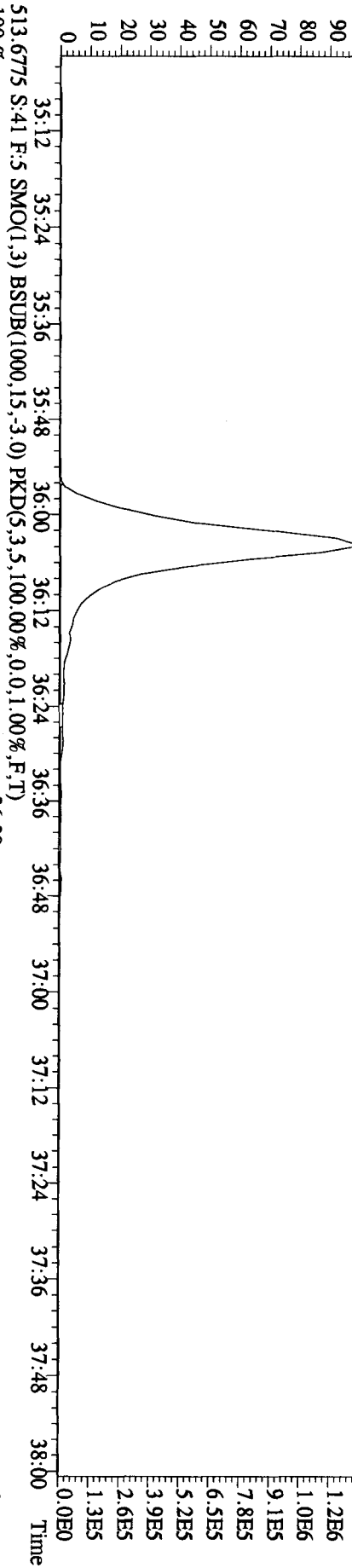
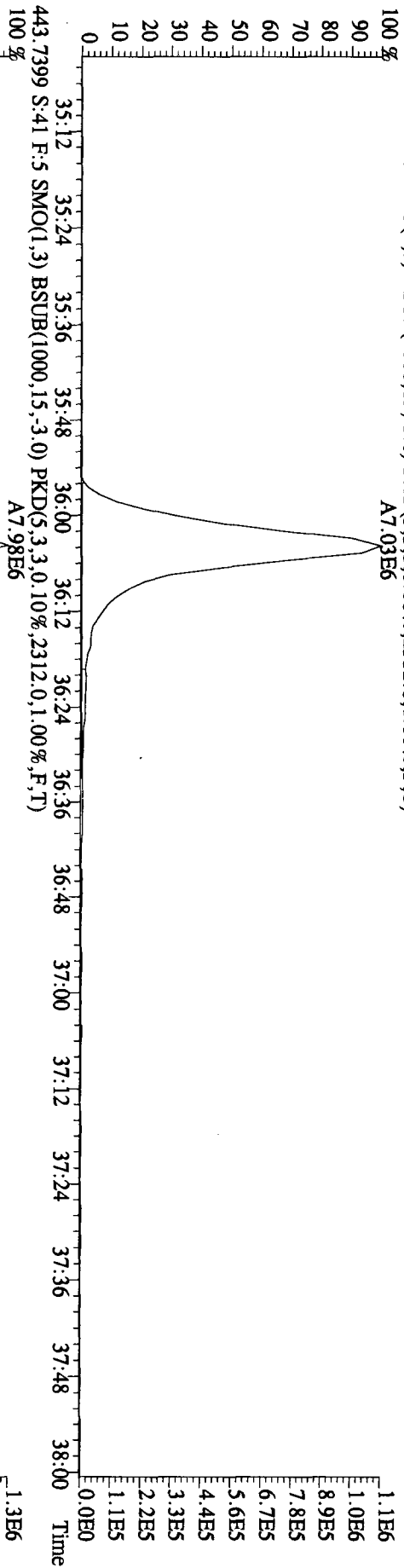
Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
407.7818 S:41 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4936,0.1,0.00%,F,T)



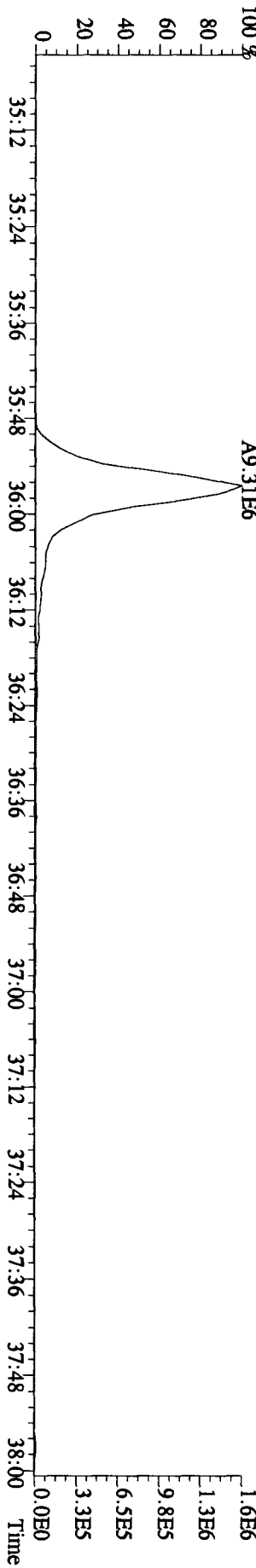
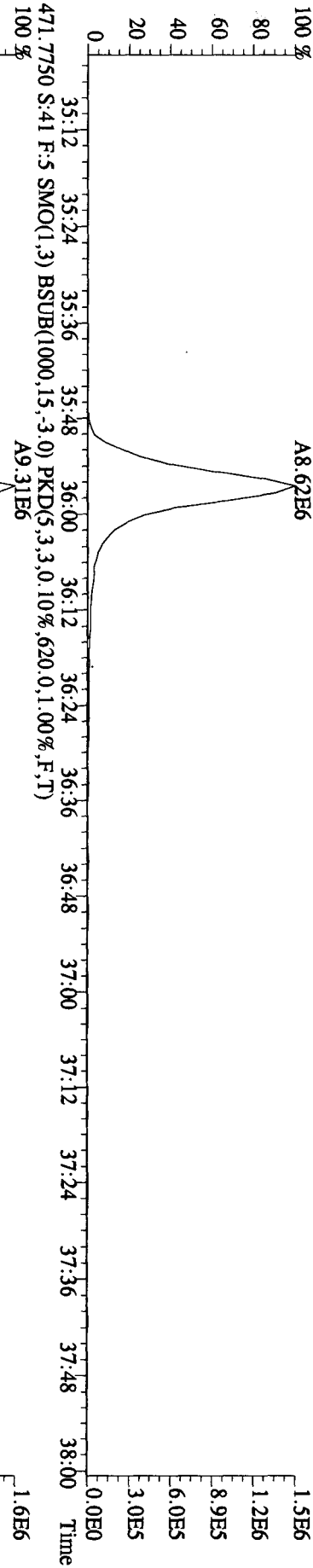
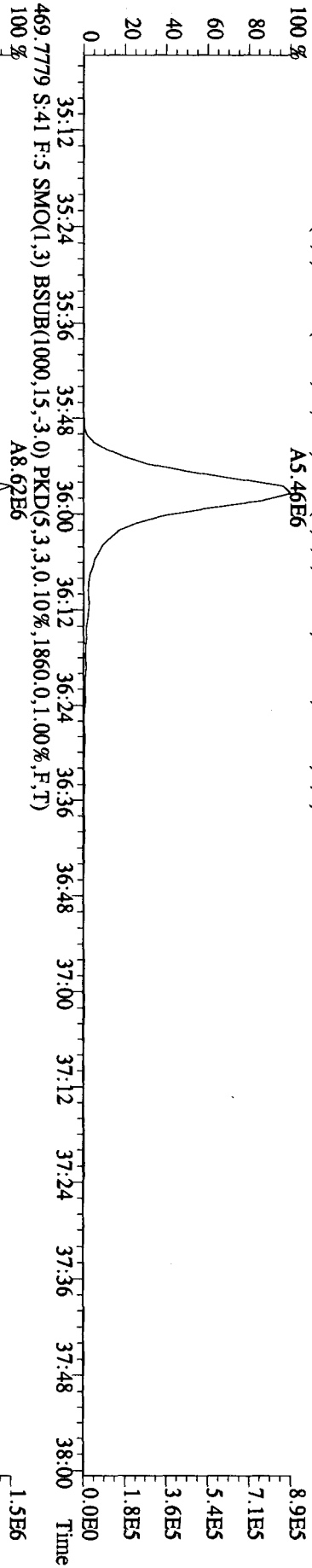
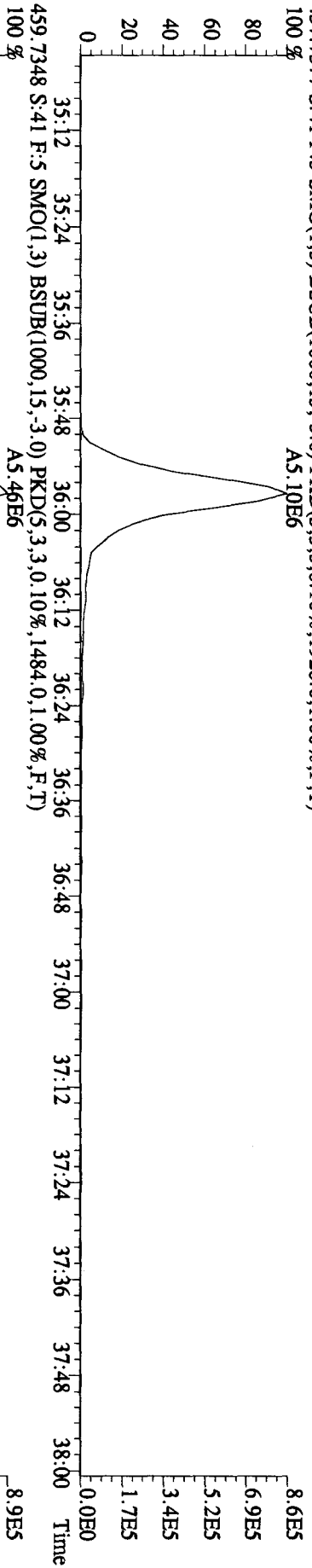
File: 02NO10A1D5 #1-203 Acq: 3-NOV-2010 19:09:25 GC: EI + Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 423.7766 S:41 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1616,0.1,00%,F,T) A4.51E6



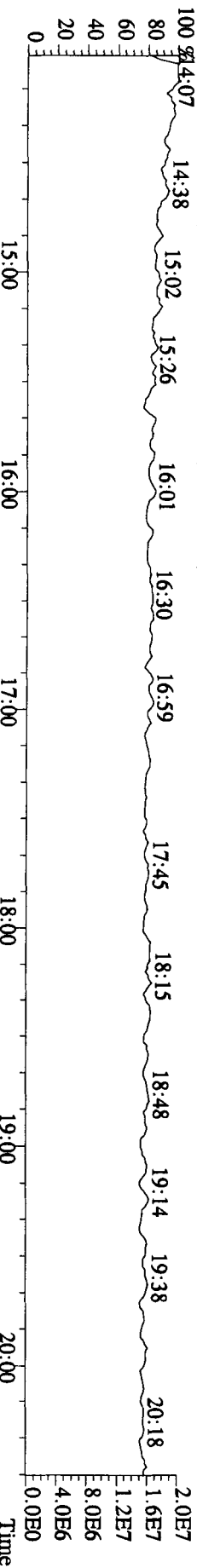
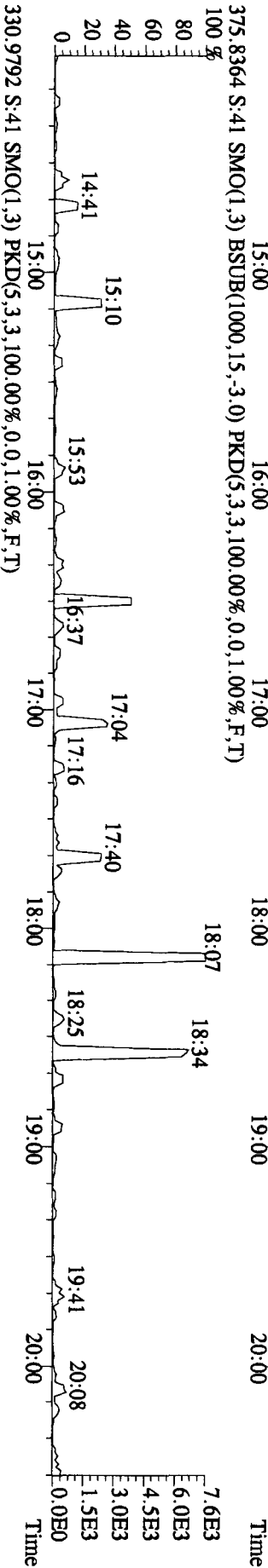
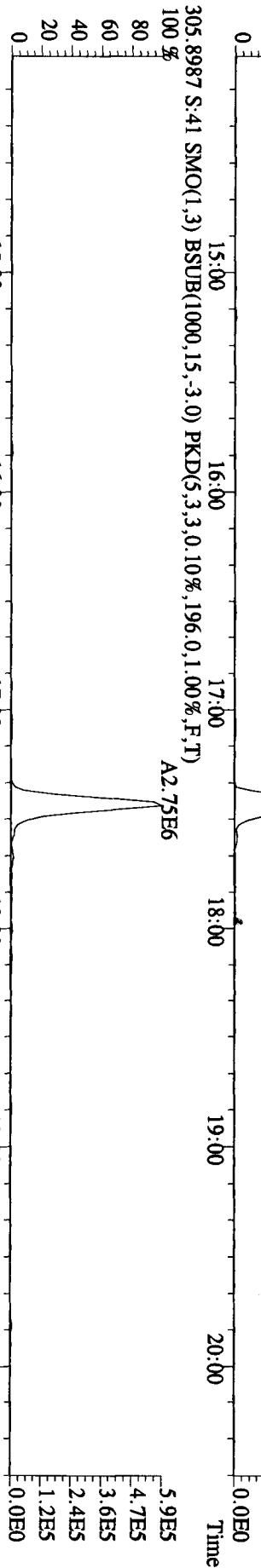
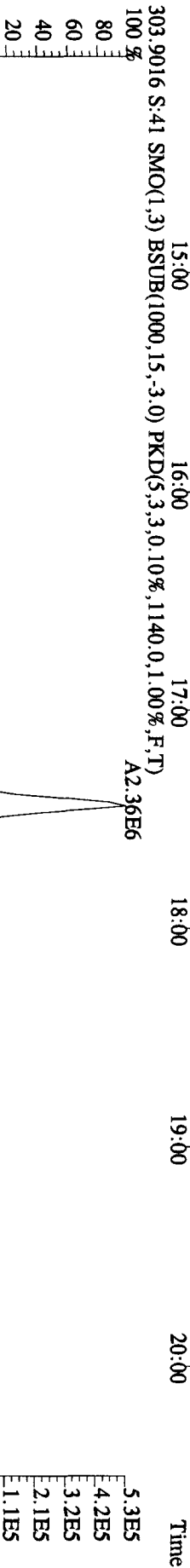
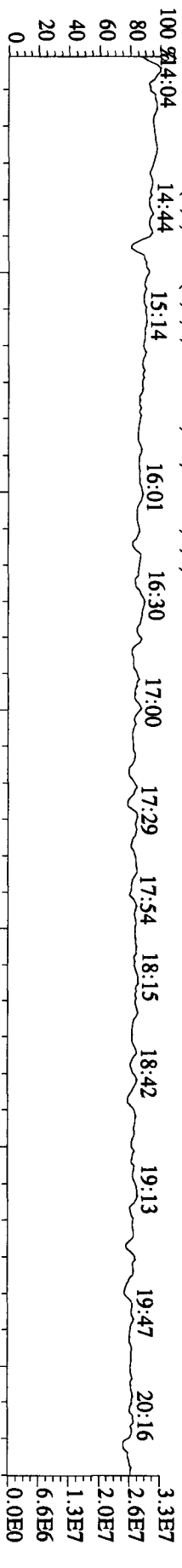
File: 02NO10A1D5 #1-196 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXNS05 Exp: DIOXINRES
 441.7428 S:41 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2532,0,1,00%,F,T)
 A7.03E6



File:02N010A1D5 #1-196 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE
 Sample#41 Text:ST1102E :CSS 10DXNS05 Exp:DIOXINRES
 457.7377 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1928.0,1.00%,F,T)
 100 % A5.10E6



File: 02NO10A1.D5 #1-382 Acq: 3-NOV-2010 19:09:25 GC: EI+ Voltage SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 292.9825 S:41 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

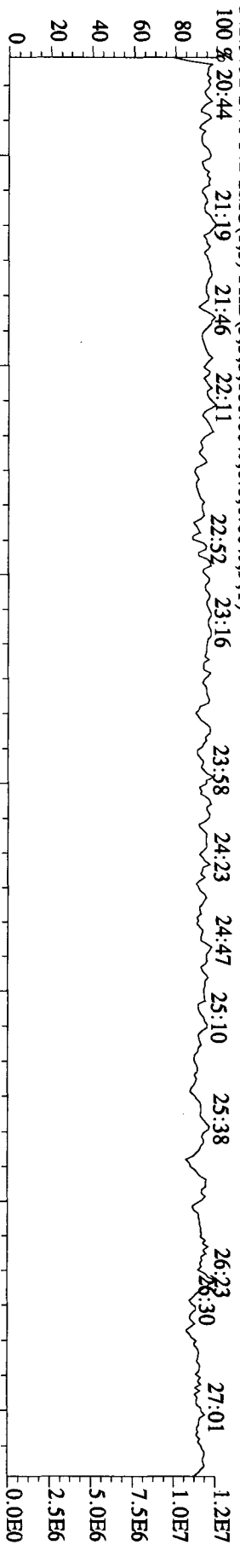


File: 02NO10A1D5 #1-423 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage SIR 70SE

Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES

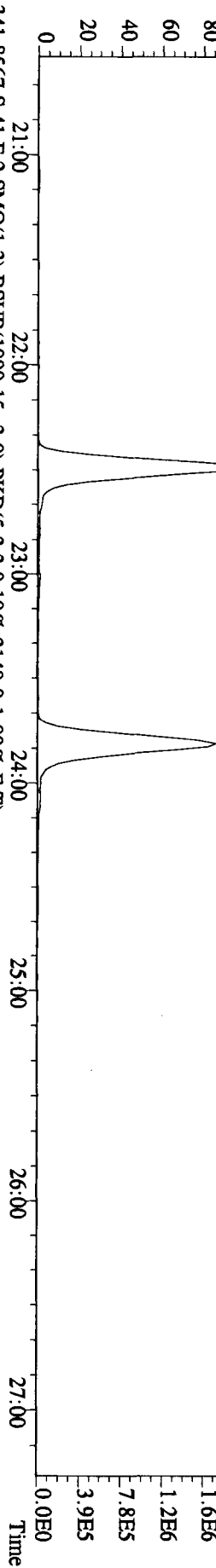
342.9792 S:41 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

100 % 20:44 21:19 21:46 22:11 22:52 23:16 23:58 24:23 24:47 25:10 25:38 26:23 26:30 27:01



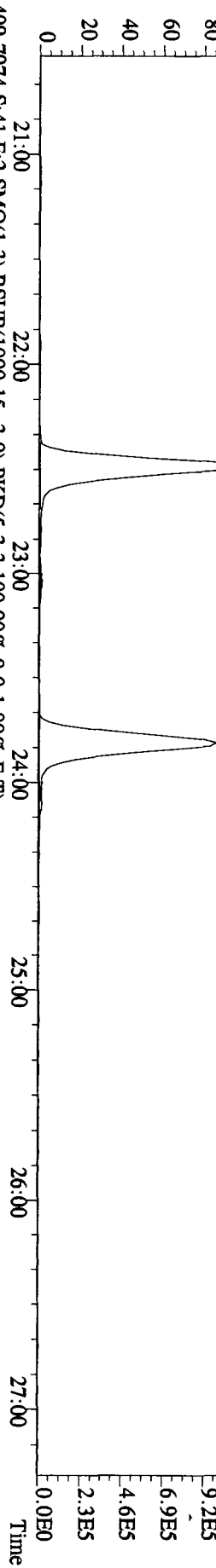
339.8597 S:41 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,792,0,1,00%,F,T)

100 % A1.16E7 A1.05E7



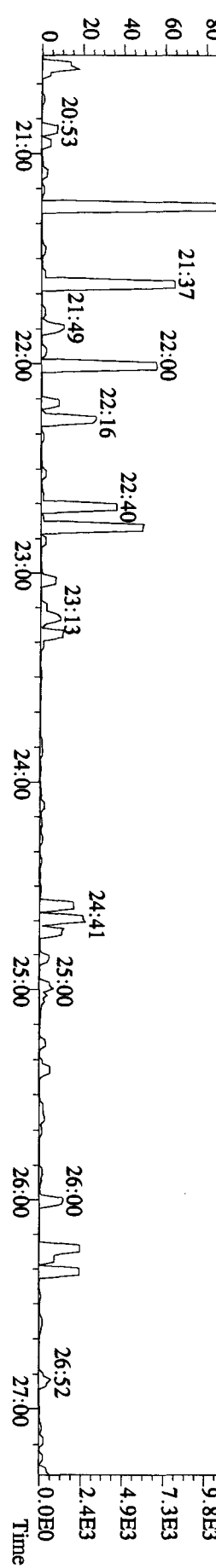
341.8567 S:41 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2140,0,1,00%,F,T)

100 % A6.87E6 A6.40E6

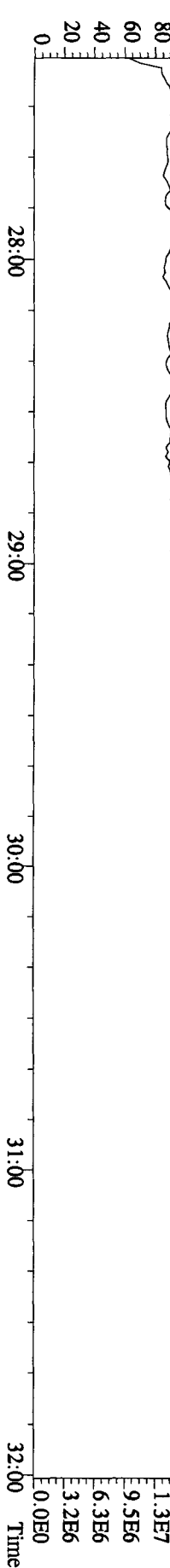
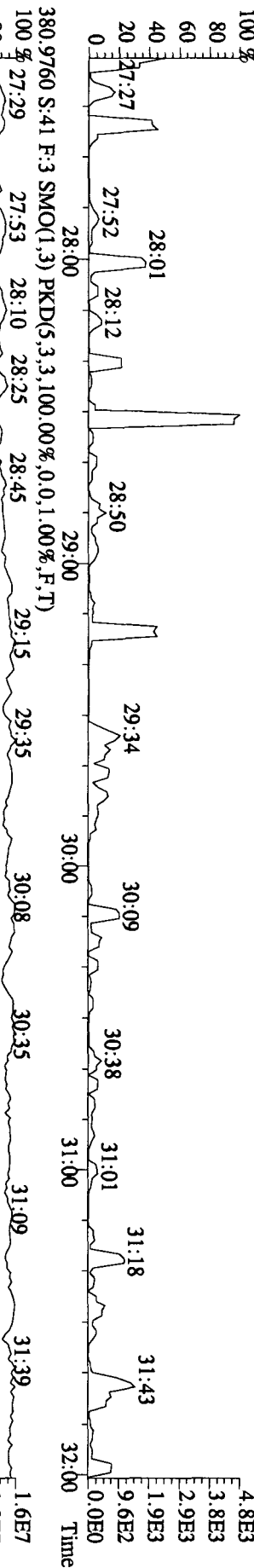
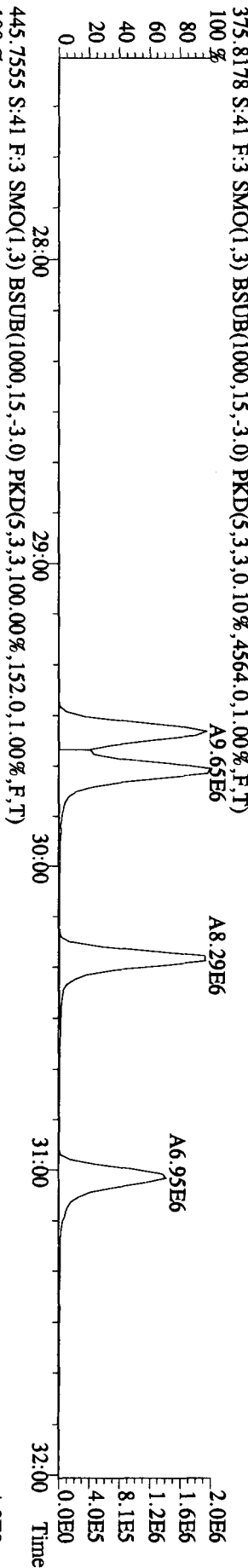
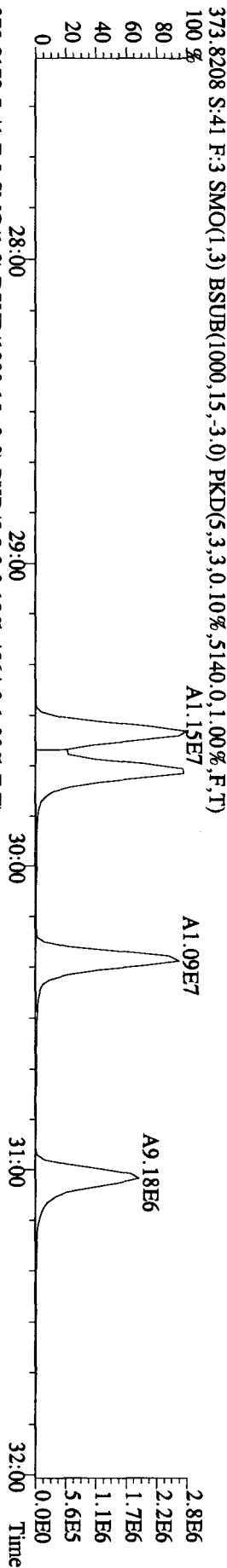
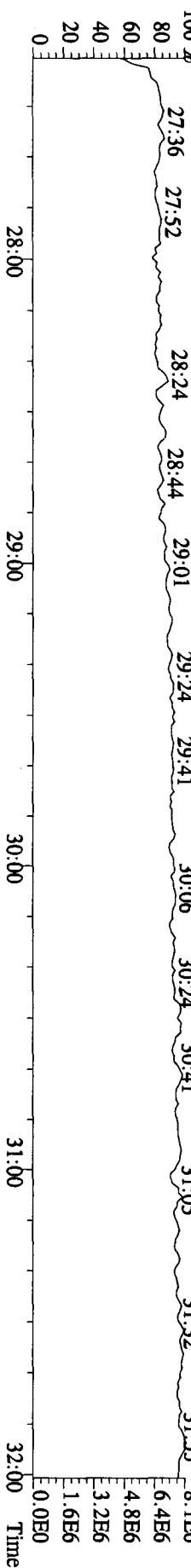


409.7974 S:41 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

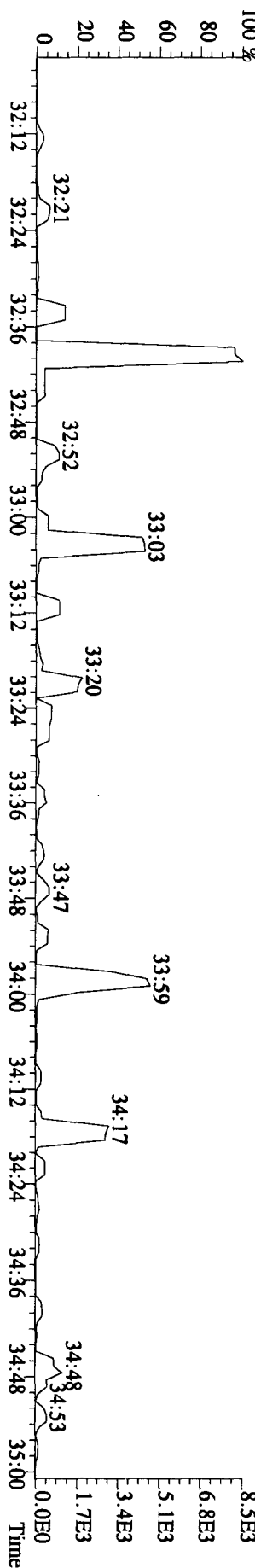
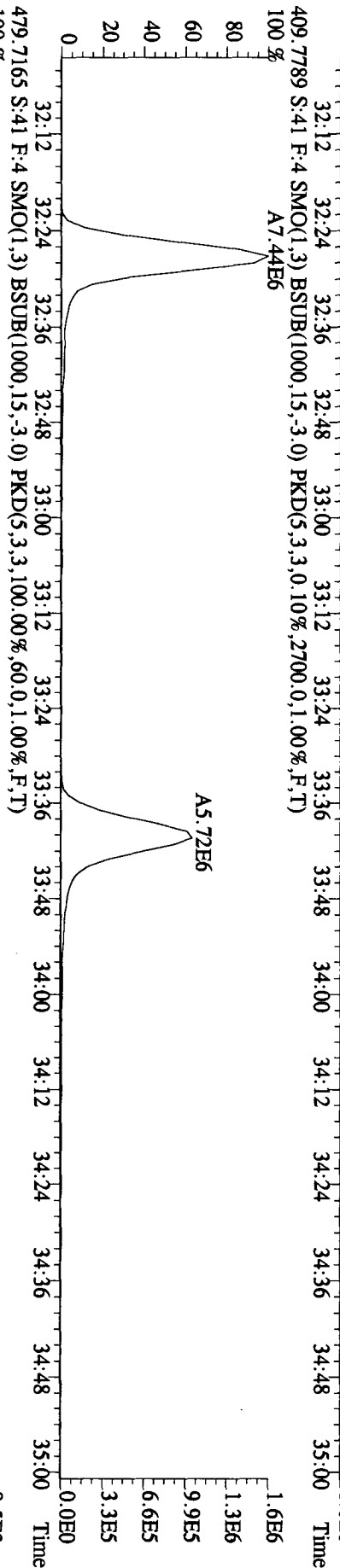
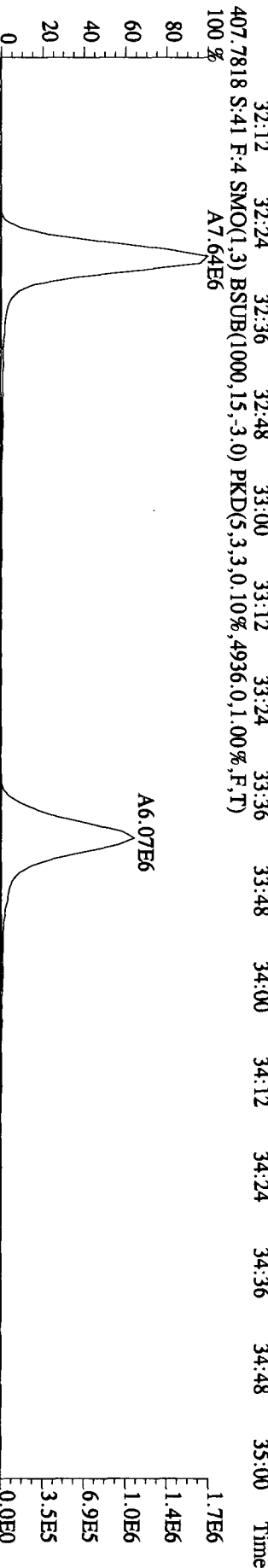
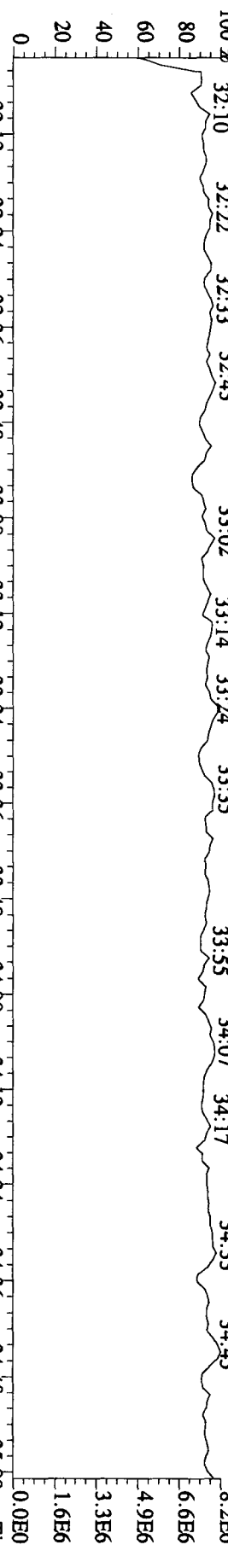
100 % 21:14 21:37 22:00 22:16 22:40 23:13 24:41 25:00 26:00 26:52



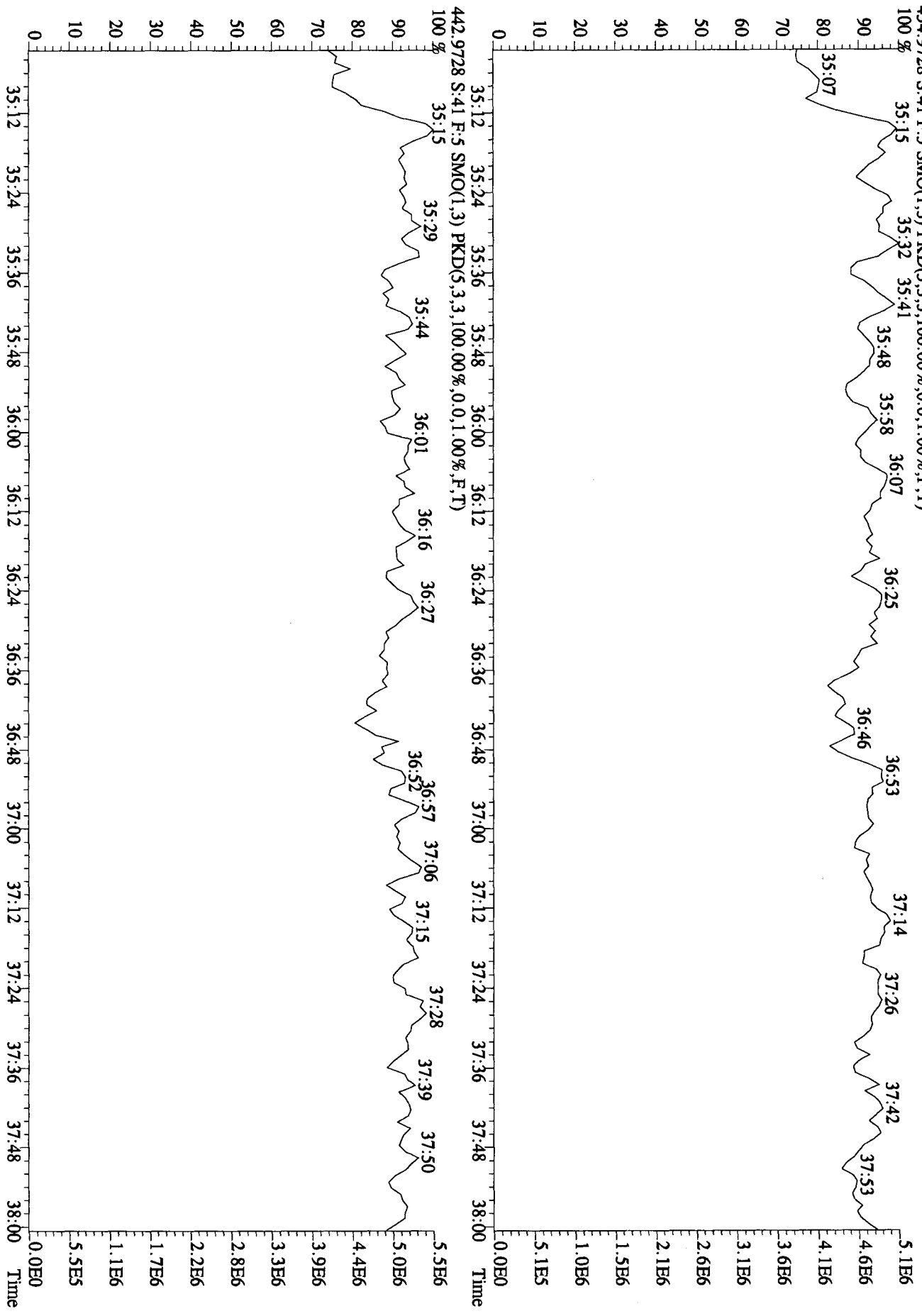
File: 02NO10A1D5 #1-301 Acq: 3-NOV-2010 19:09:25 GC: EI + Voltage: SIR 70SE
 Sample#41 Text: ST1102E :CS3 10DXN505 Exp: DIOXINRES
 392.9760 S:41 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:02N010A1D5 #1-203 Acq: 3-NOV-2010 19:09:25 GC: EI+ Voltage: SIR 70SE
 Sample#41 Text:ST1102E :CS3 10DXN505 Exp:DIOXINRES



File:02NO10A1D5 #1-196 Acq: 3-NOV-2010 19:09:25 GC EI+ Voltage: SIR 70SE
 Sample#41 Text:ST1102E :CS3 10DXN505 Exp:DIOXINRES
 454.9728 S:41 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Method ID TO9

Associated ICAL DB225AIR1029105D2

Column ID DB225

Instrument ID 5D2

STD ID ST1104A, ST1104B

STD Solution CS3 100XN46T^{11/10/05} 505

Analyzed by AS, KSS

Date Analyzed 11/4/10, 11/5/10

Std. Pkg. By KSS

Date Std. Pkg. Assembled 11/5/10

Std. Pkg. Reviewed By SMA

Date Std. Pkg. Reviewed 11/05/10

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?	① ✓	① ✓
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: ① 13C-2,3,7,8-TCDF @ 33% D in closing CCV (ST1104B) see NCM # 07-011596B

* 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.

Clouseau Nonconformance Memo



NCM #: 07-0115968 NCM Initiated By: Kyle Stephens Date Opened: 11/05/2010 Date Closed: 11/05/2010	Classification: Observation Status: CLOSED Production Area: HiRes Dioxin Inst Tests: 8290, TO-9 Lot #'s (Sample #'s): G0J150566 (1,4), G0J170406 (1,2,3,5), G0J200489 (1), G0J260480 (21,3,7,9), QC Batches: 0292315, 0295230, 0298269, 0299369,
Nonconformance: Dioxin observation Subcategory: 8290: 30% < End Standard < 35% (Internal Std)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Kyle Stephens	11/05/2010	For Internal Use Only. The bracketing continuing calibration standard listed below has an analyte with a percent difference value that is between the method recommended criteria of 30% to 35% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF = 2.135) is calculated from bracketing continuing calibration standards and is used to quantitate any the internal standard recovery in the associated samples. There is no impact on the data as a result of this anomaly. [ST1104B on 5D2], [05-NOV-2010 @ 04:23:40 hrs.] [13C-2,3,7,8-TCDF @ +33.2%D]

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Kyle Stephens	11/05/2010	

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
11/05/2010	Kyle Stephens	Group Leader

Run text: ST1104A File text: ST1104A :CS3 10DXN505
Run #6 Filename 04NO105D2 S: 19 I: 1
Acquired: 4-NOV-10 19:21:15 Processed: 5-NOV-10 08:39:50
Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2 Results: 04NO105D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	191870000	0.77 y	15:20	-	100.00	-	n
13C-2,3,7,8-TCDF	400867000	0.80 y	16:34	2.09	100.00	27.7	n
2,3,7,8-TCDF	38175700	0.75 y	16:35	0.95	10.00	-10.1	n
13C-2,3,7,8-TCDD	191763600	0.78 y	15:03	1.00	100.00	4.4	n
2,3,7,8-TCDD	25989500	0.81 y	15:04	1.36	10.00	9.4	n
37Cl-2,3,7,8-TCDD	28021600	1.00 y	15:04	1.46	10.00	-4.9	n

Run text: ST1104B File text: ST1104B :CS3 10DXN505
Run #14 Filename 04NO105D2 S: 34 I: 1
Acquired: 5-NOV-10 04:23:40 Processed: 5-NOV-10 08:39:57
Run: 04NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2 Results: 04NO105D2DB225AIR

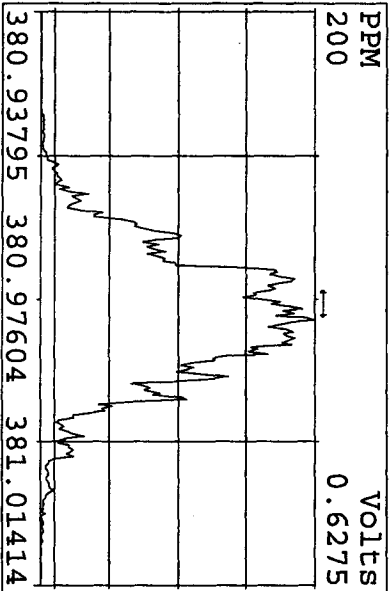
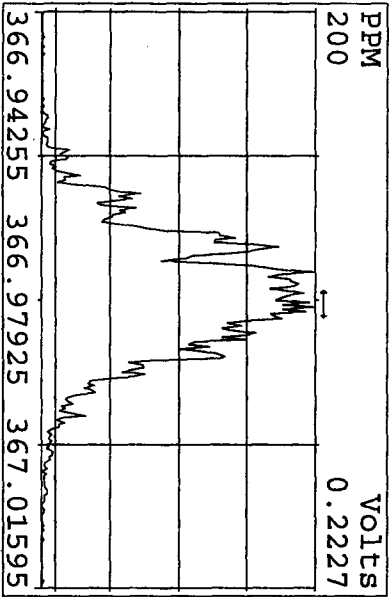
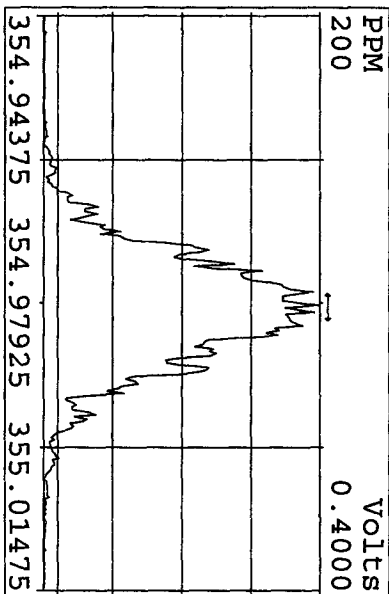
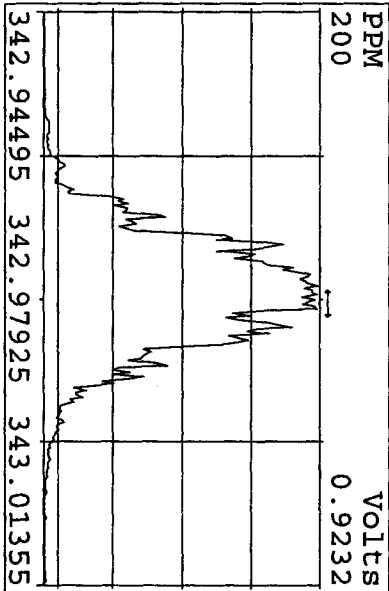
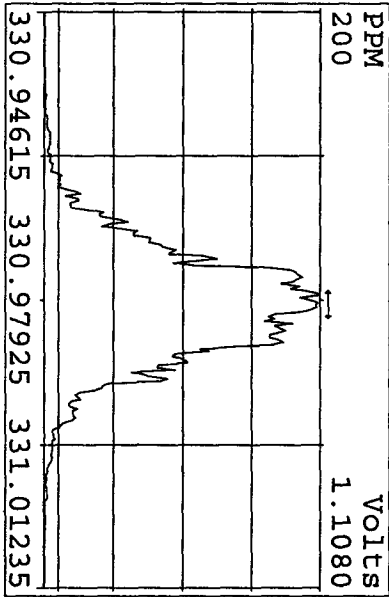
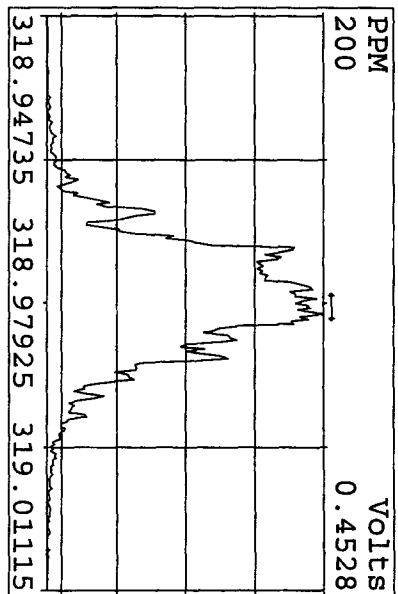
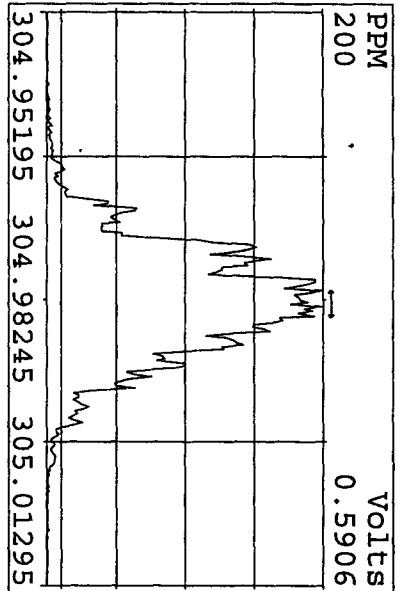
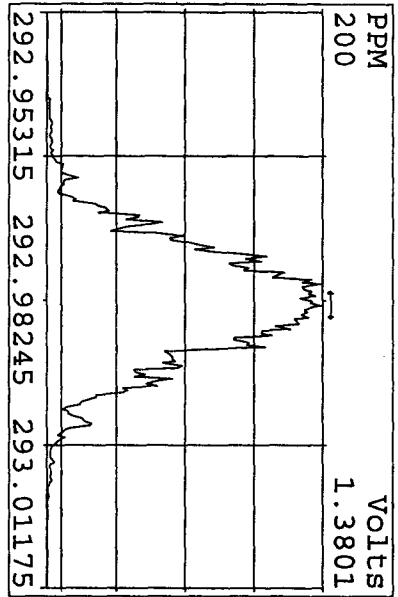
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	160594200	0.75 y	15:20	-	100.00	-	n
13C-2,3,7,8-TCDF	350015000	0.77 y	16:33	2.18	100.00	33.2	n
2,3,7,8-TCDF	32727300	0.76 y	16:35	0.94	10.00	-11.7	n
13C-2,3,7,8-TCDD	158112000	0.74 y	15:03	0.98	100.00	2.9	n
2,3,7,8-TCDD	20910270	0.80 y	15:03	1.32	10.00	6.8	n
37Cl-2,3,7,8-TCDD	22787600	1.00 y	15:03	1.44	10.00	-6.2	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04NO105D2	1	CP1104	DB-225 CPSM 3732-06				1.0000	
04NO105D2	2	ST1104	CS3 10DXN461				1.0000	
04NO105D2	3	SB1104	Solvent Blank				1.0000	
04NO105D2	4	L9CET-1-A4	G0J290566-5	20	8290/SOLID	3	10.5300	g
04NO105D2	5	CRS-QC-1613	1613 CRS-QC-10DXN514	20	1613B/SOLID	QC53	1.0000	
04NO105D2	6	L89RV-1-AU	G0J280598-1	20	8290/SOLID	2	10.2000	g
04NO105D2	7	L89TE-1-A2	G0J280598-15	20	8290/SOLID		10.1000	g
04NO105D2	8	L89TC-1-A2	G0J280598-13	20	8290/SOLID		10.0100	g
04NO105D2	9	L8L42-1-AD	G0J170402-3	20	1613B/SOLID	97	10.0000	g
04NO105D2	10	L8L43-1-AD	G0J170402-4	20	1613B/SOLID		10.0000	g
04NO105D2	11	L8L46-1-AD	G0J170402-6	20	1613B/SOLID		20.0400	g
04NO105D2	12	L8L47-1-AD	G0J170402-7	20	1613B/SOLID		20.1000	g
04NO105D2	13	L8L48-1-AD	G0J170402-8	20	1613B/SOLID		20.0000	g
04NO105D2	14	L8L5D-1-AD	G0J170402-12	20	1613B/SOLID		10.1000	g
04NO105D2	15	L8L5E-1-AD	G0J170402-13	20	1613B/SOLID		10.0000	g
04NO105D2	16	L8E9W-2-AC	G0J130609-1RX	20	1613B/SOLID	93B	10.0100	g
04NO105D2	17	L8E90-2-AC	G0J130609-3RX	20	1613B/SOLID		10.8100	g
04NO105D2	18	SB1104A	Solvent Blank C-14				1.0000	
04NO105D2	19	ST1104A	CS3 10DXN505				1.0000	
04NO105D2	20	CP1104A	DB-225 CPSM 3732-06				1.0000	
04NO105D2	21	SB1104B	Solvent Blank C-14				1.0000	
04NO105D2	22	L8L53-1-AA	G0J170406-1	20	8290/WIPE	92	0.5000	SAM
04NO105D2	23	L8L54-1-AA	G0J170406-2	20	8290/WIPE		0.5000	SAM
04NO105D2	24	L8L55-1-AA	G0J170406-3	20	8290/WIPE		0.5000	SAM
04NO105D2	25	L8L57-1-AA	G0J170406-5	20	8290/WIPE		0.5000	SAM
04NO105D2	26	L8KF7-1-AC	G0J150566-1	20	8290/SOLID	89	10.0300	g
04NO105D2	27	L8KG8-1-AC	G0J150566-4	20	8290/SOLID		10.1900	g
04NO105D2	28	L84NE-1-AA	G0J260480-7	20	TO9/AIR	98.5	10.0000	SAM
04NO105D2	29	L84NP-1-AA	G0J260480-9	20	TO9/AIR	.5	10.0000	SAM
04NO105D2	30	L84Q7-1-AA	G0J260480-21	20	TO9/AIR	.5	10.0000	SAM
04NO105D2	31	L84M1-1-AA	G0J260480-3	20	TO9/AIR	.5	10.0000	SAM
04NO105D2	32	L8RLT-1-AC	G0J200489-1	20	8290/SOLID	94	10.7100	g
04NO105D2	33	SB1104C	Solvent Blank C-14				1.0000	
04NO105D2	34	ST1104B	CS3 10DXN505				1.0000	
04NO105D2	35						1.0000	
04NO105D2	36						1.0000	
04NO105D2	37						1.0000	
04NO105D2	38						1.0000	
04NO105D2	39		AS, KSS 11/04/10				1.0000	

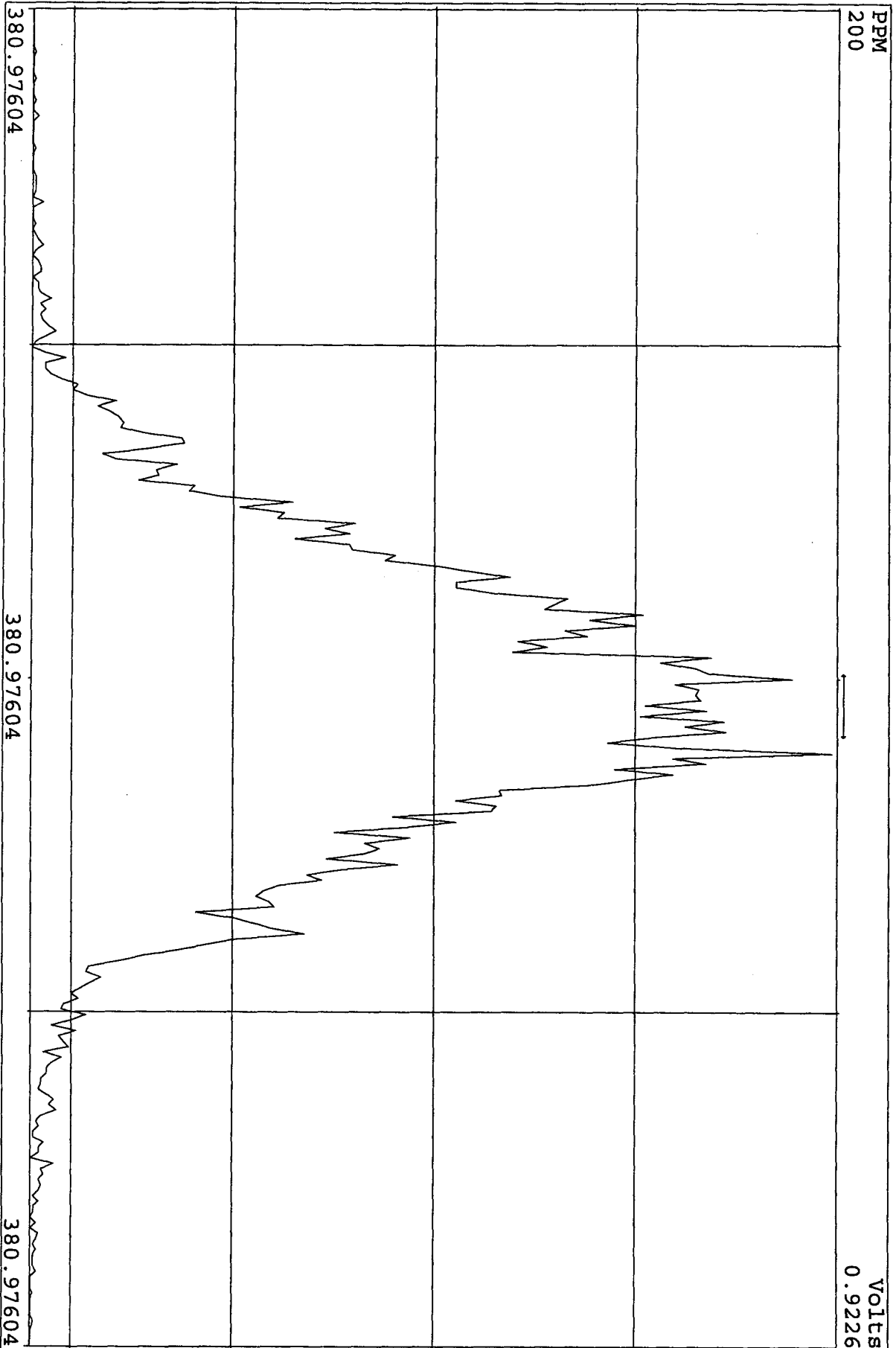
*log file v'd
MC 11/4/10*

*11/5/10
KSS*

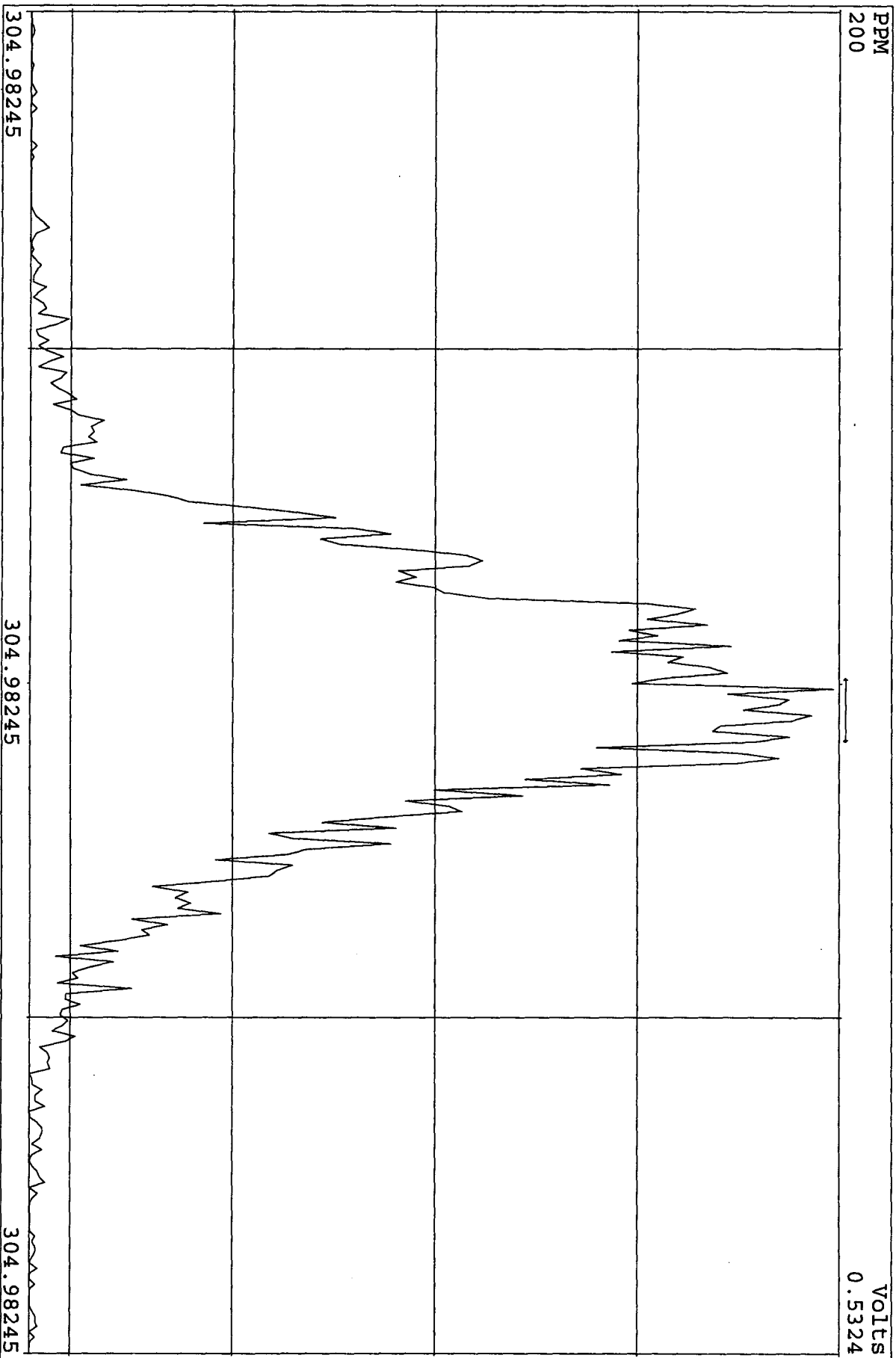
Peak Locate Examination: 4-NOV-2010:08:26 File:04NO105D2
 Experiment:DB225RES Function:1 Reference:PFK



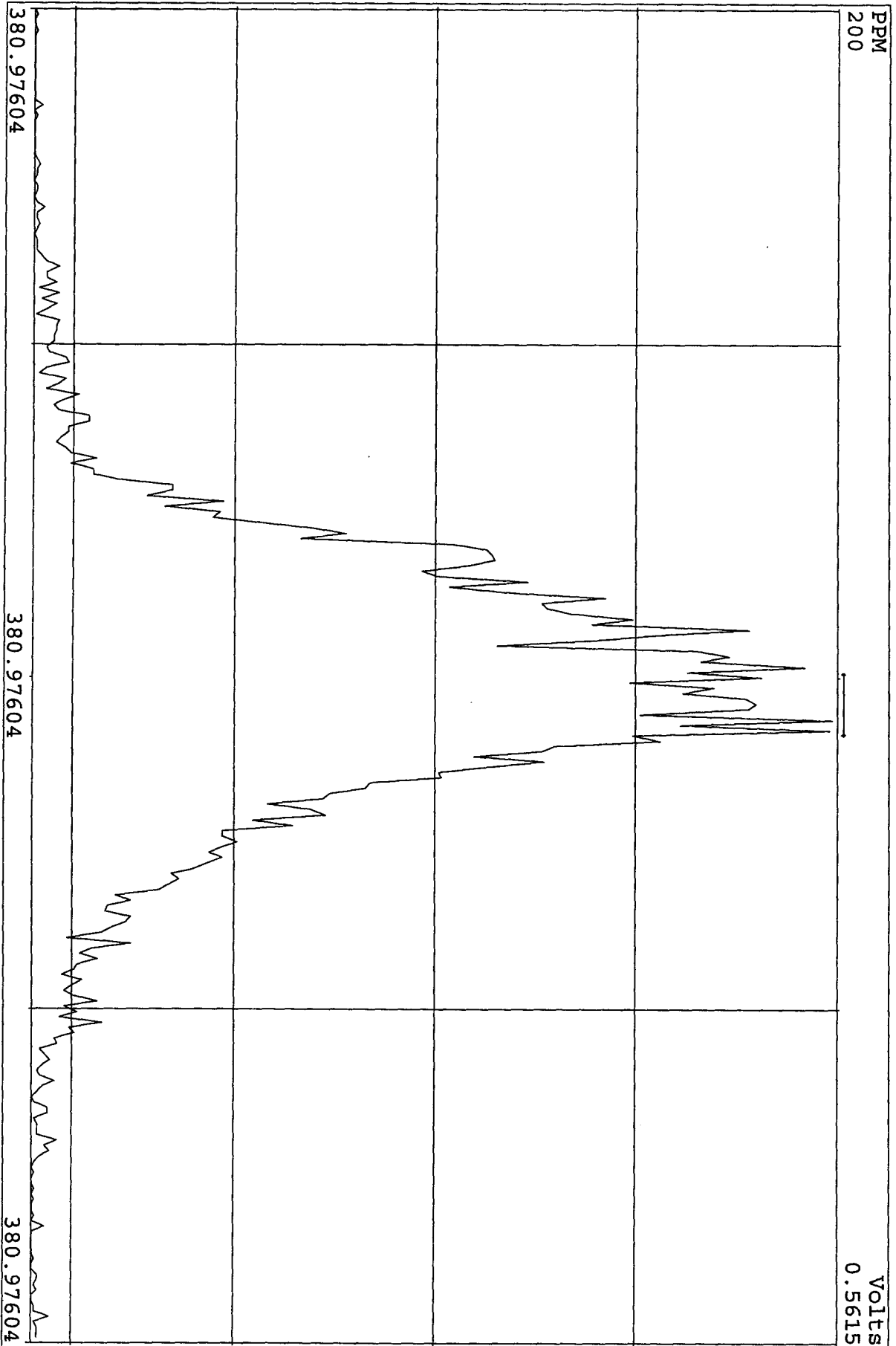
SIRLM Examination: 4-NOV-2010:19:12 File:04NO105D2
Experiment:DB225RES Function:2



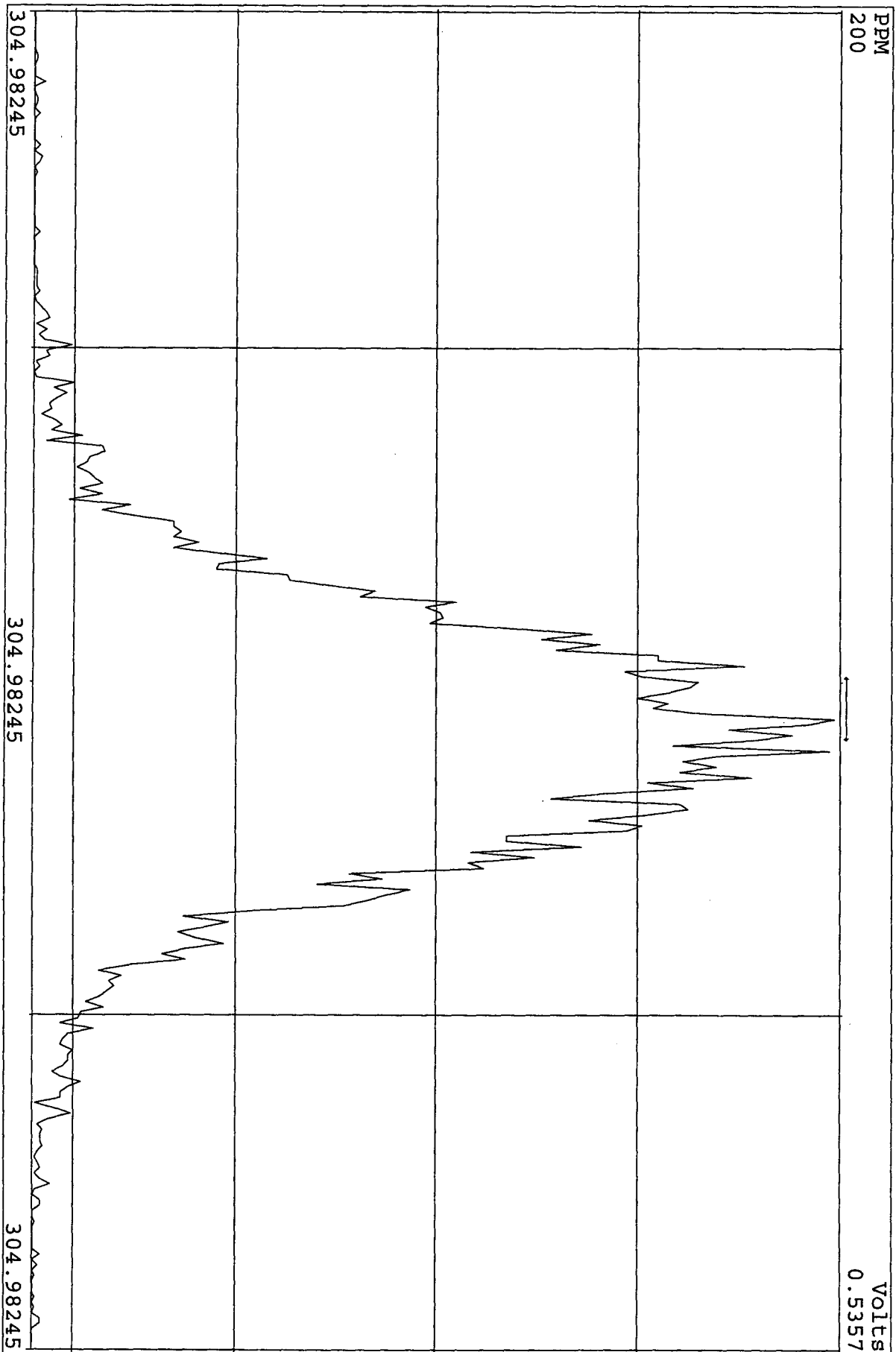
SIRIM Examination: 4-NOV-2010:19:13 File:04NO105D2
Experiment:DB225RES Function:3



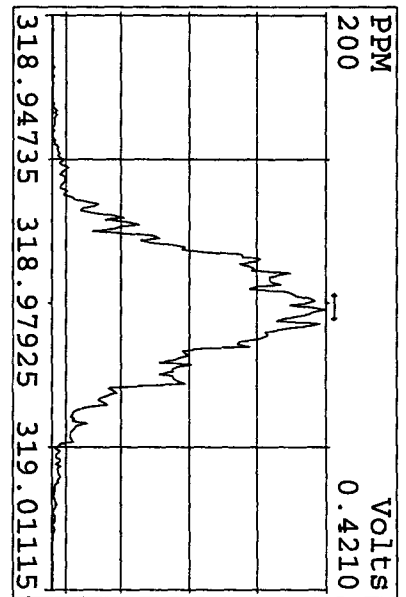
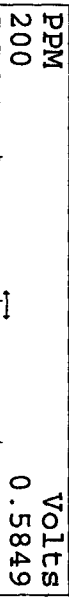
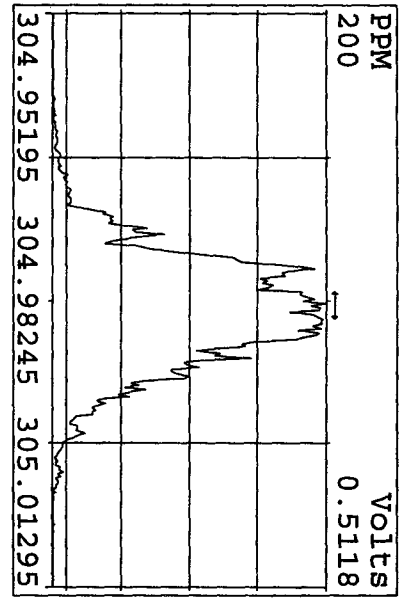
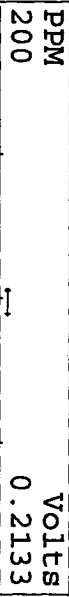
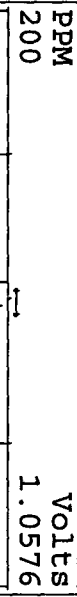
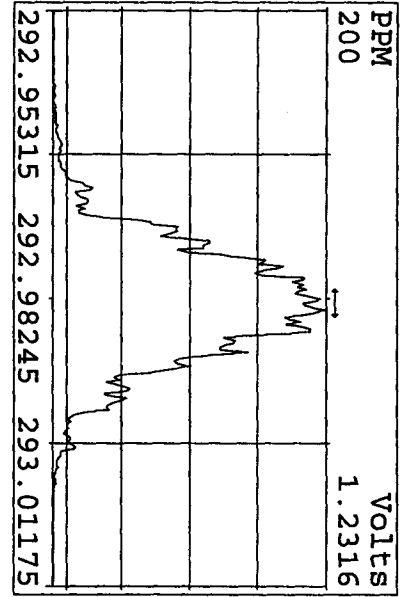
SIRLM Examination: 4-NOV-2010:19:49 File:04NO105D2
Experiment:DB225RES Function:2



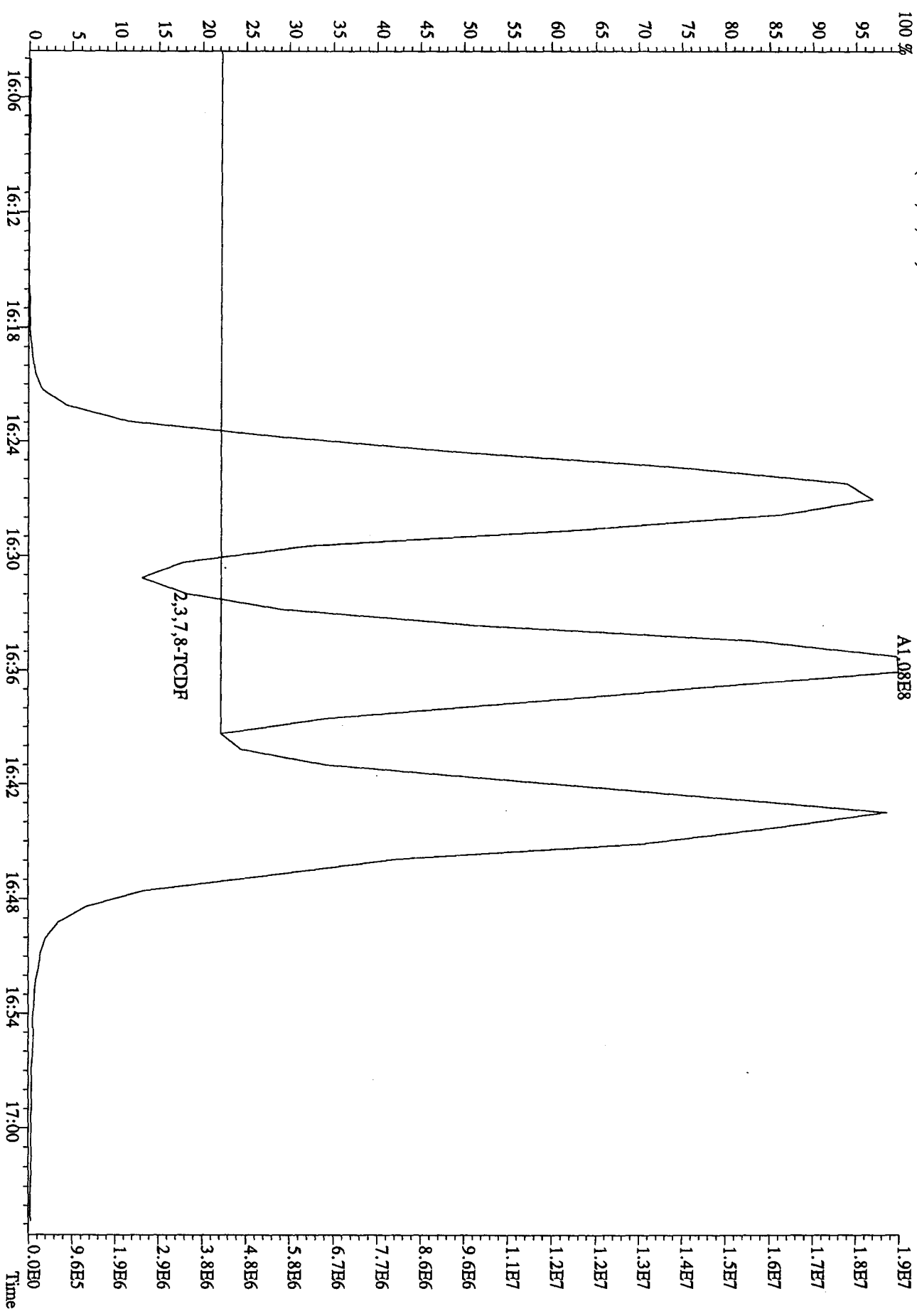
SIRLM Examination: 4-NOV-2010:19:49 File: 04NO105D2
Experiment: DB225RES Function: 3



Peak Locate Examination: 5-NOV-2010:07:35 File:RESCHECK5D2
 Experiment:DB225RES Function:1 Reference:PFK



File:04NO105D2 #1-1242 Acq: 4-NOV-2010 19:57:26 GC EI+ Voltage SIR 70SE
 Sample#20 Text:CP1104A :DB-225 CPSM 3732-06 Exp:DB225RES
 303.9016 S:20 BSUB(128,15,-3.0)
 100 %



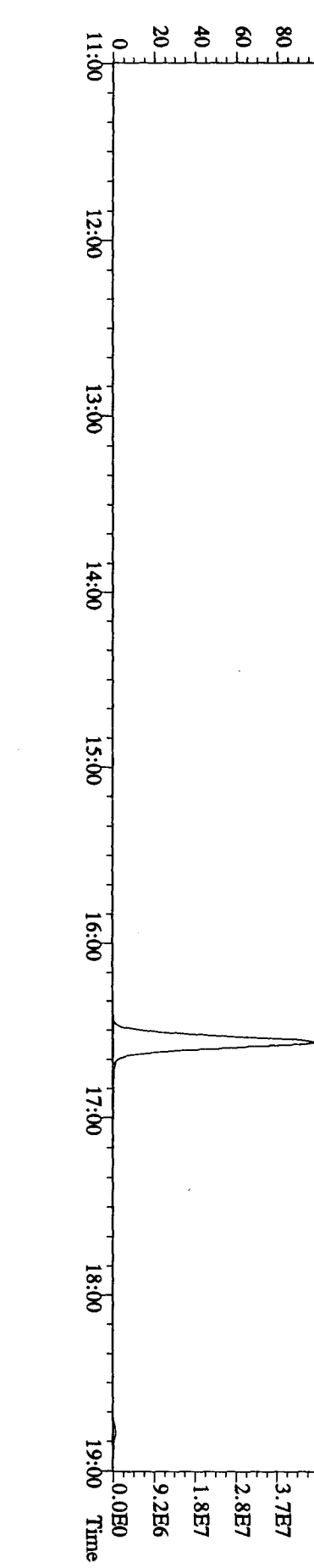
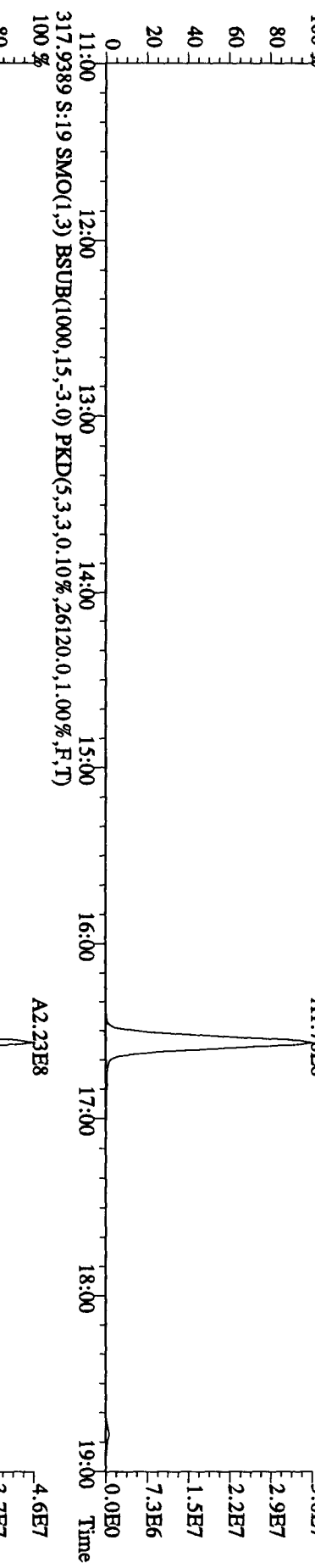
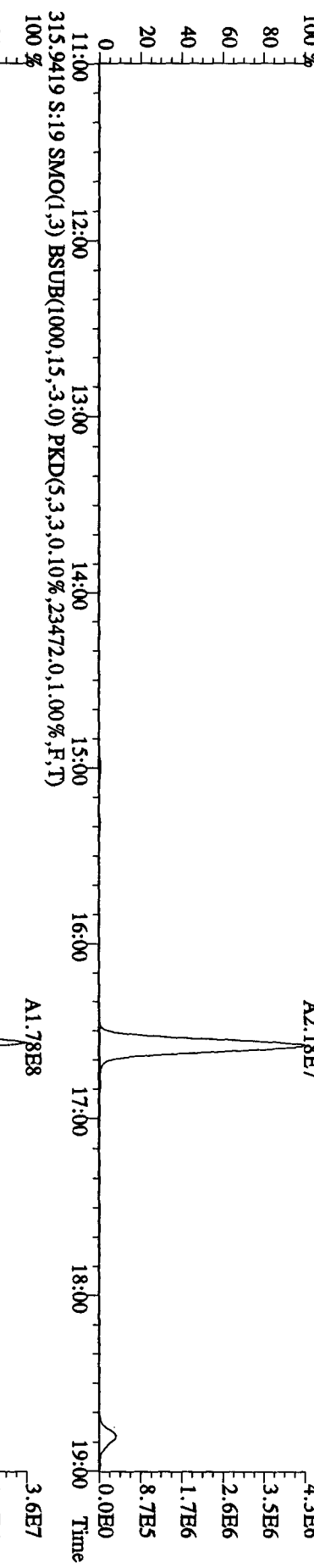
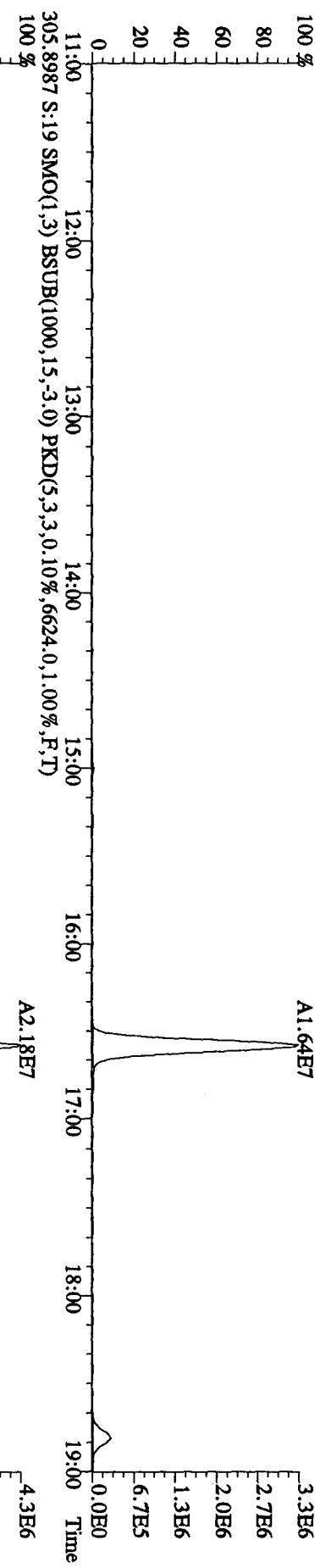
Run: 290C10B5D2 Analyte: DB225AIR Gal: DB225AIR1029105D2

ST1029B : CS-1 10DXN503 AM ST1029C : CS-2 10DXN504 AM ST1029D : CS-3 10DXN505 AM
 ST1029E : CS-4 10DXN506 AM ST1029F : CS-5 10DXN507 AM

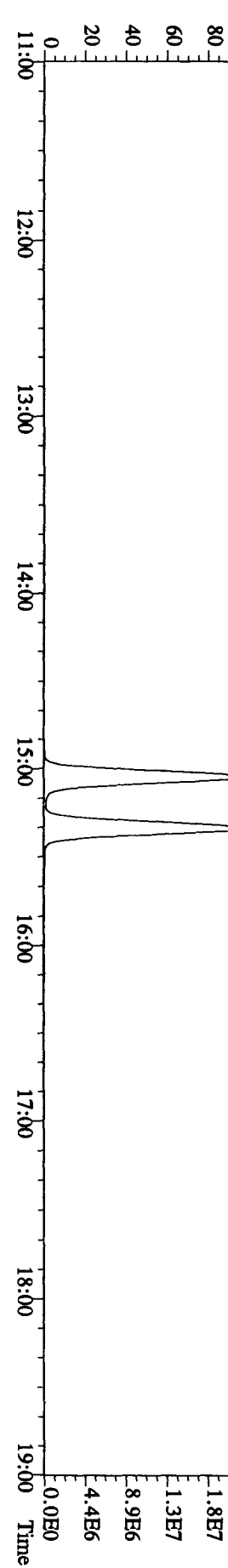
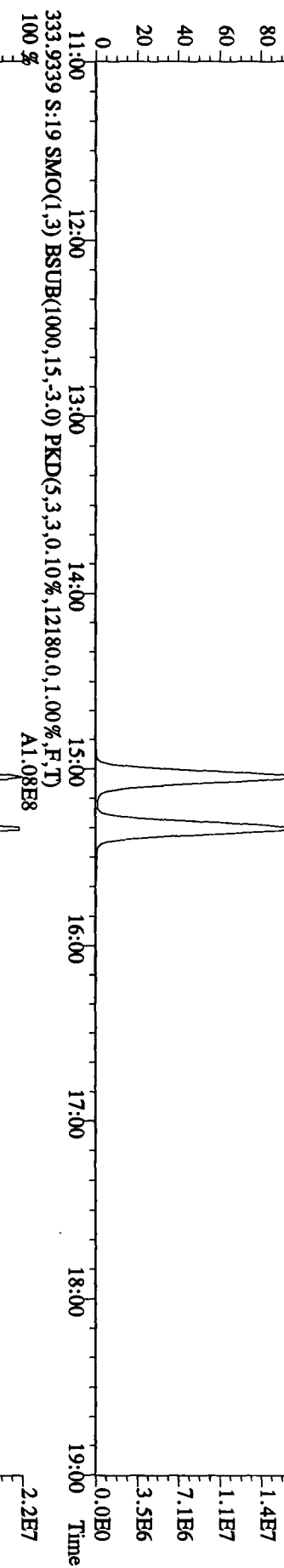
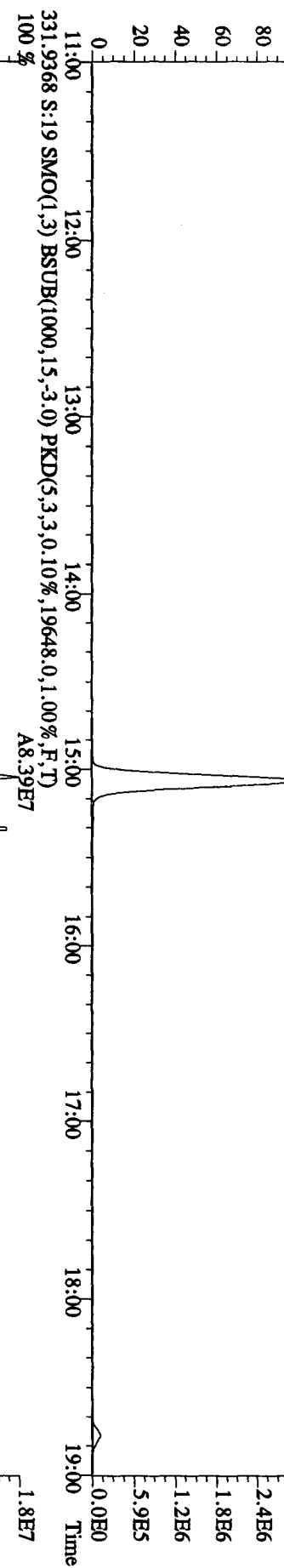
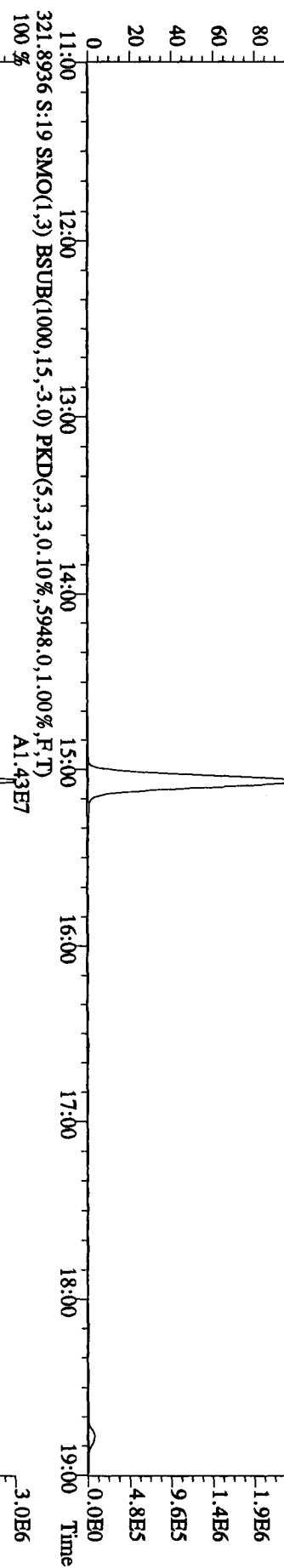
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Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.636	0.105	6.40 %	1.59	1.63	1.78	1.50	1.68
2,3,7,8-TCDF	1.060	0.038	3.59 %	1.06	1.11	1.01	1.08	1.04
13C-2,3,7,8-TCDD	0.957	0.024	2.46 %	0.97	0.94	0.99	0.93	0.95
2,3,7,8-TCDD	1.238	0.033	2.64 %	1.29	1.24	1.20	1.25	1.21
37Cl-2,3,7,8-TCDD	1.536	0.126	8.21 %	1.76	1.45	1.51	1.49	1.47

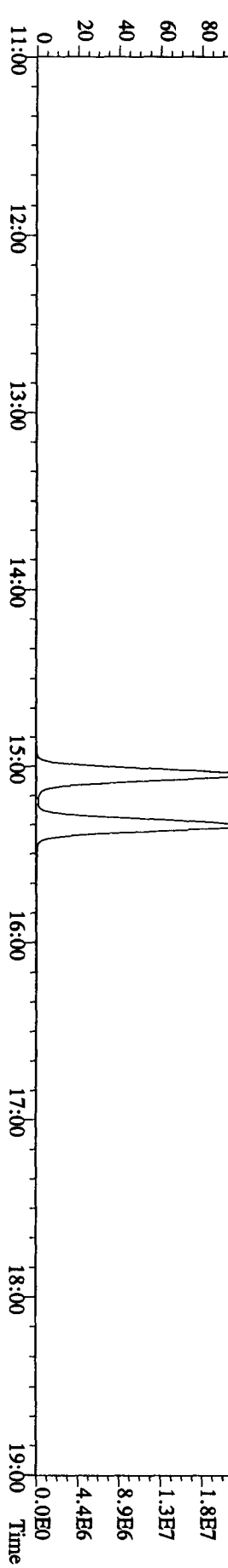
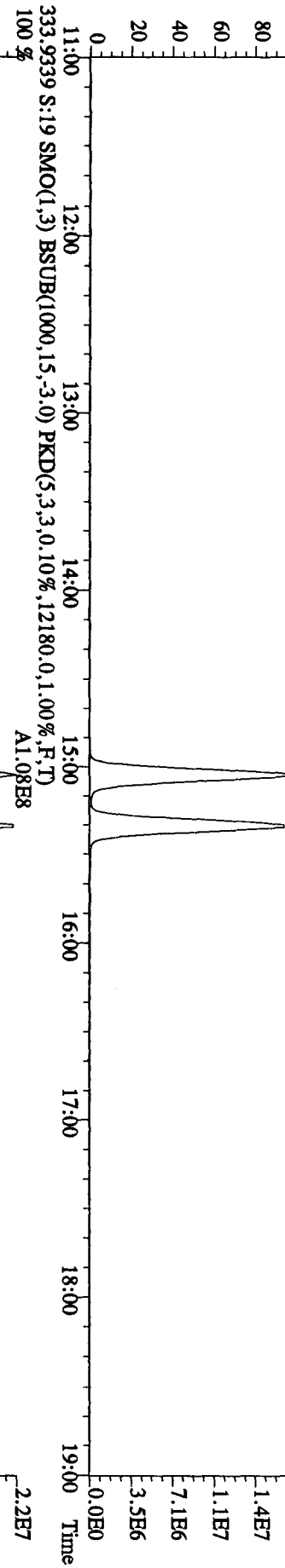
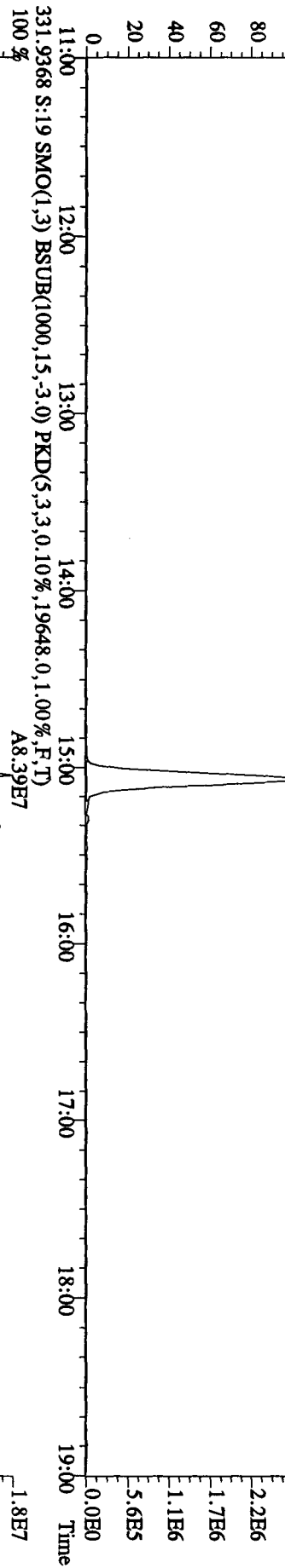
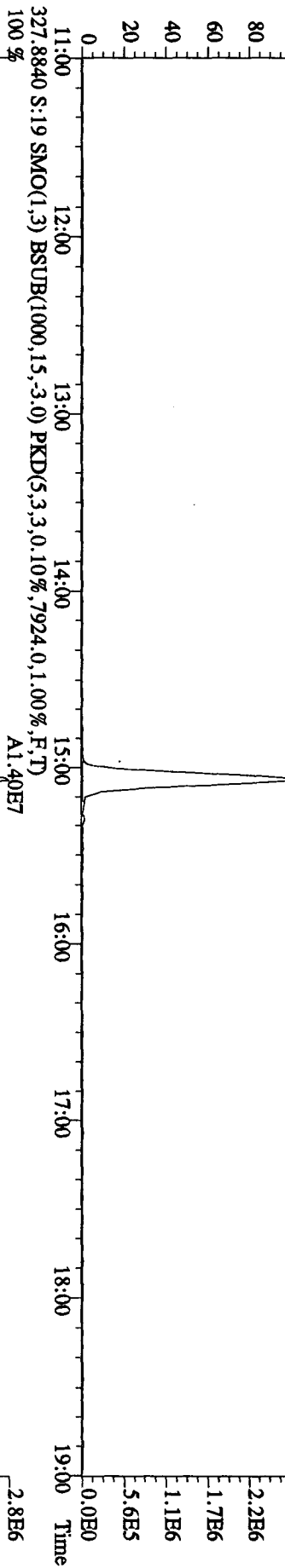
File:04NO105D2 #1-1241 Acq: 4-NOV-2010 19:21:15 GC EI+ Voltage SIR 70SE
Sample#19 Text:ST1104A :CS3 10DXN505 Exp:DB225RES
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5448.0,1.00%,F,T)



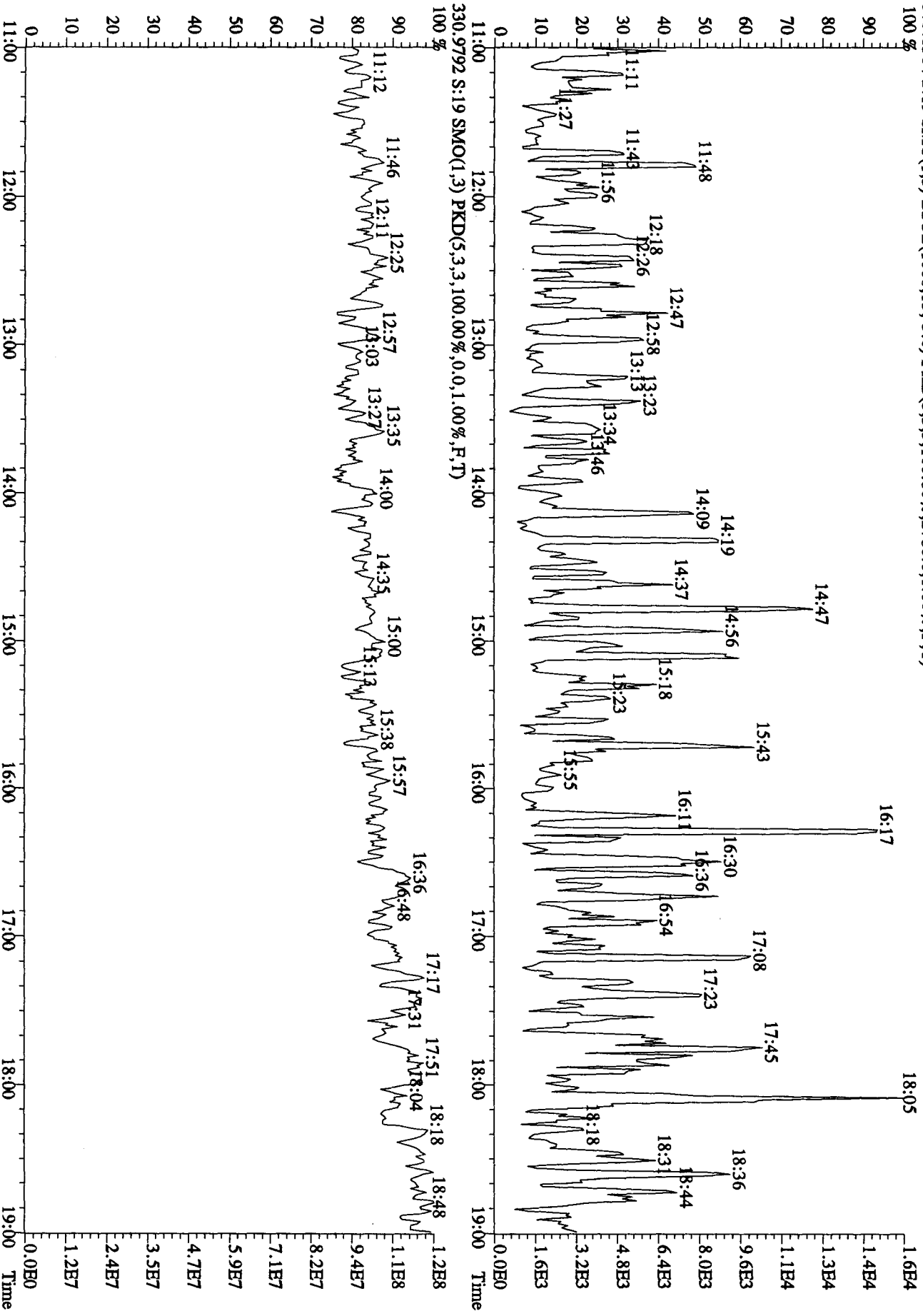
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 Sample#19 Text:ST1104A :CS3 10DXN505 Exp:DB225RES
 319.8965 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5212.0,1.00%,F,T)
 100% A1.17E7



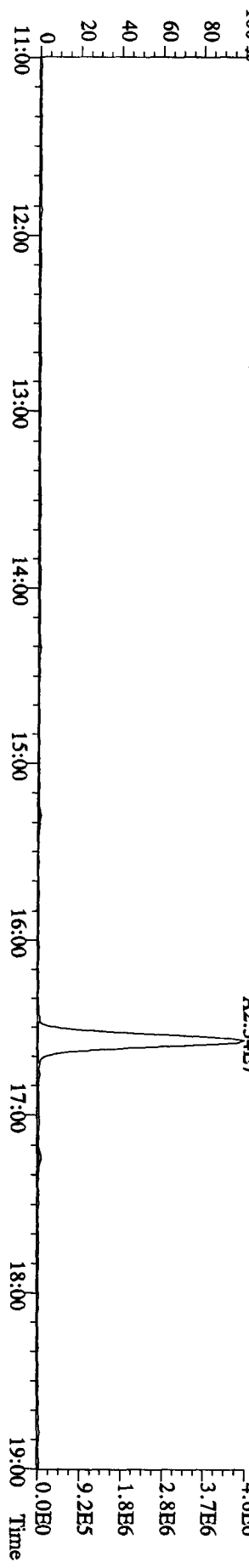
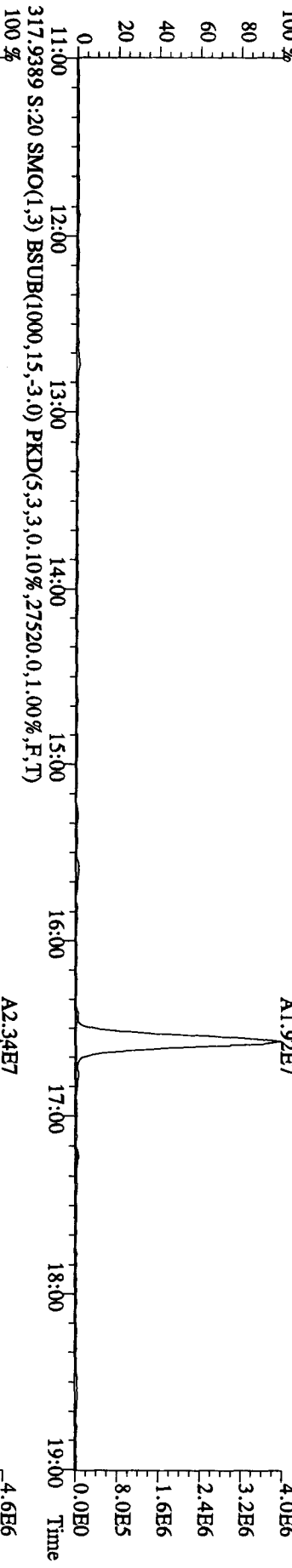
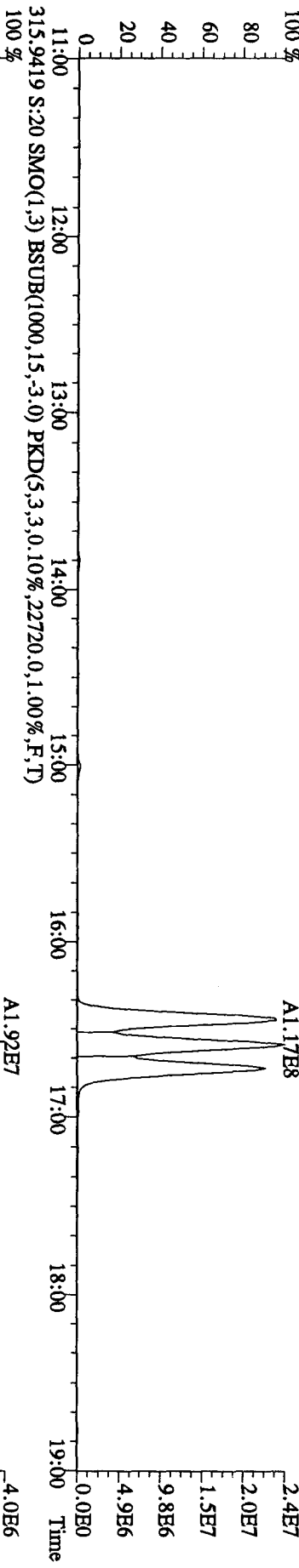
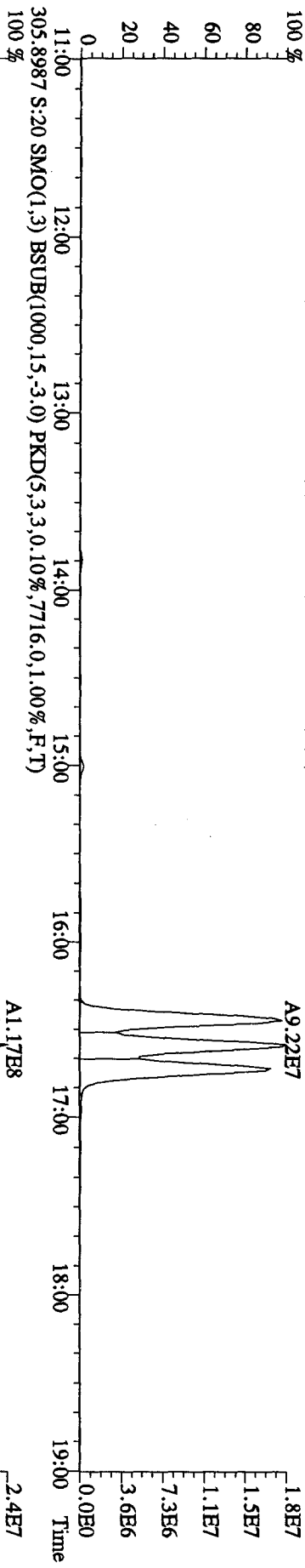
File:04NO105D2 #1-1241 Acq: 4-NOV-2010 19:21:15 GC EI+ Voltage SIR 70SE
 Sample#19 Text:ST1104A :CS3 10DXN505 Exp:DB25RBS
 327.8840 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7924,0,1.00%,F,T)
 100 % A1.40E7



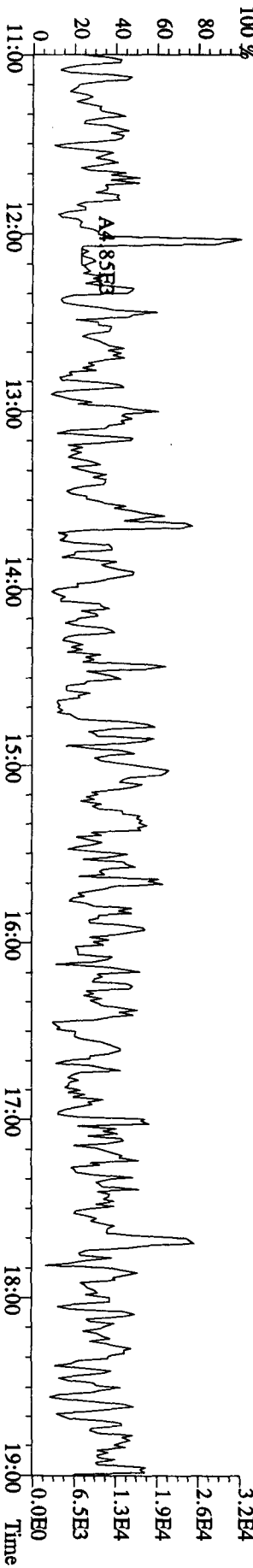
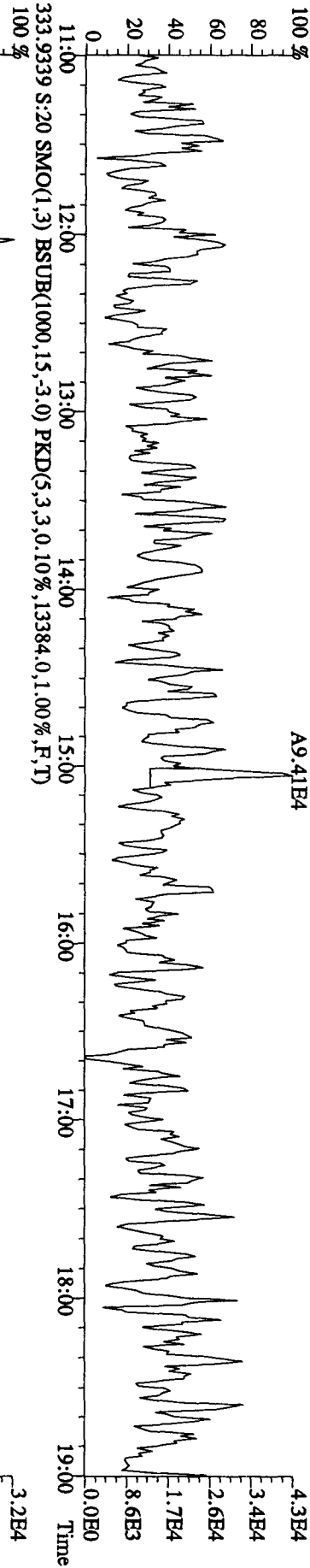
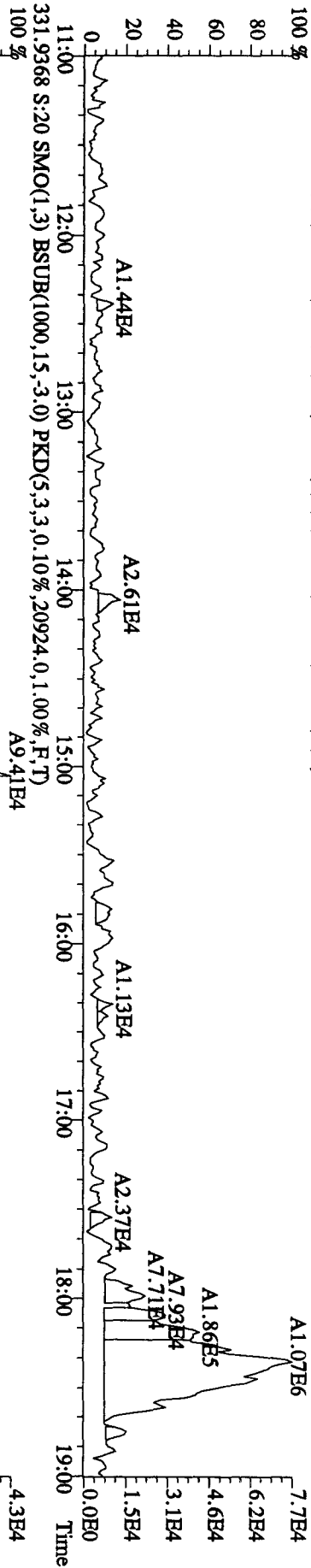
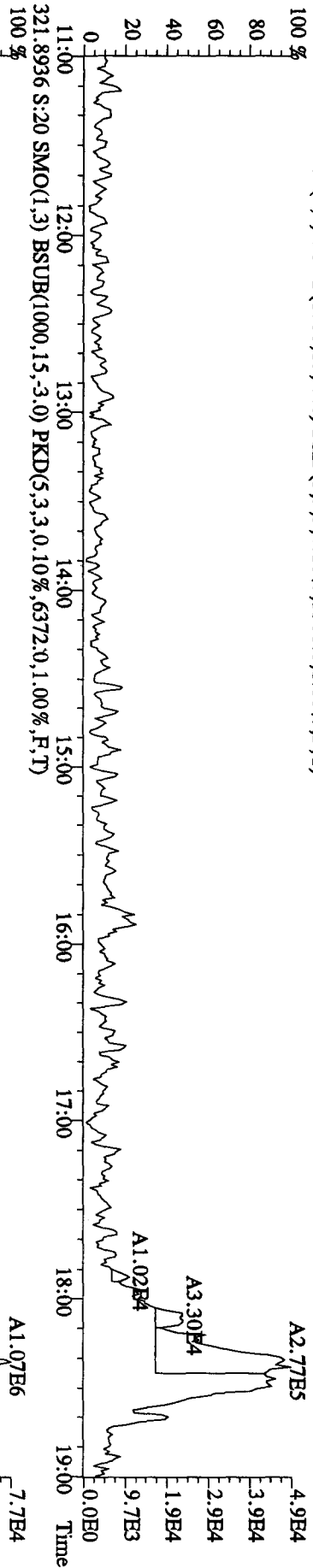
File:04NANO105D2 #1-1241 Acq: 4-NOV-2010 19:21:15 GC EI+ Voltage SIR 70SE
 Sample#19 Text:ST1104A :CS3 10DXN505 Exp:DB25RES
 375.8364 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100,00%,2788.0,1.00%,F,T) 100%



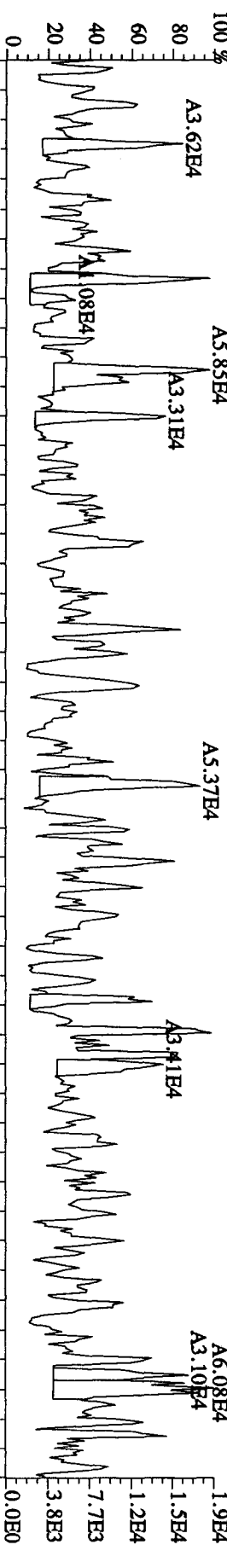
File:04N0105D2 #1-1242 Acq: 4-NOV-2010 19:57:26 GC EI+ Voltage SIR 70SE
 Sample#20 Text:CP1104A :DB-225 CPISM 3732-06 Exp:DB225RES
 303.9016 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6324,0,1,00%,F,T)
 100 %



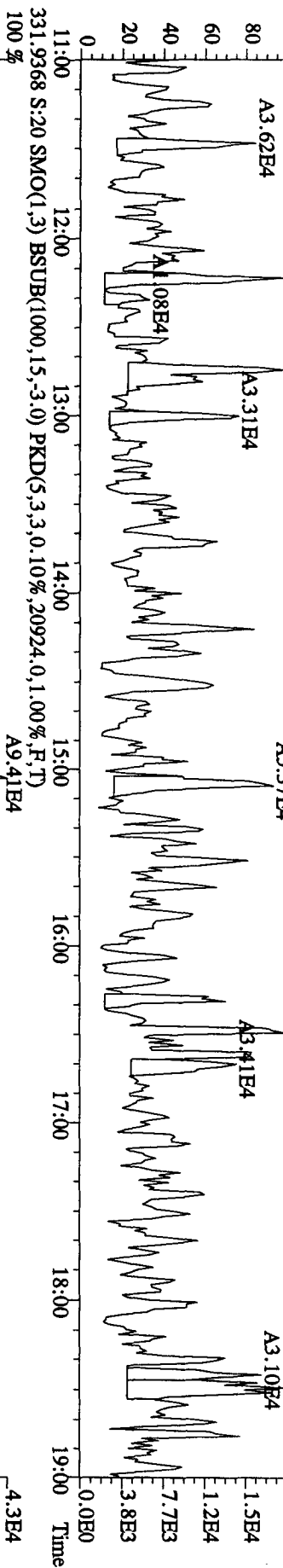
File: 04NO105D2 #1-1242 Acq: 4-NOV-2010 19:57:26 GC EI+ Voltage SIR 70SE
 Sample#20 Text: CP1104A :DB-225 CP5M 3732-06 Exp: DB225RES
 319.8965 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5580.0,1.00%,F,T)



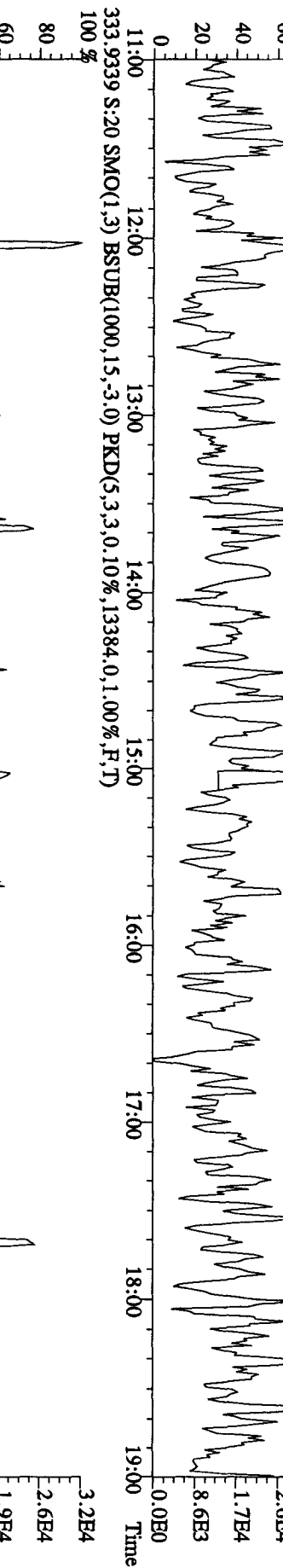
File:04N0105D2 #1-1242 Acq: 4-NOV-2010 19:57:26 GC EI+ Voltage S1R 70SE
 Sample#20 Text:CP1104A :DB-225 CPISM 3732-06 Exp:DB225RES
 327.8840 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7760.0,1.00%,F,T)



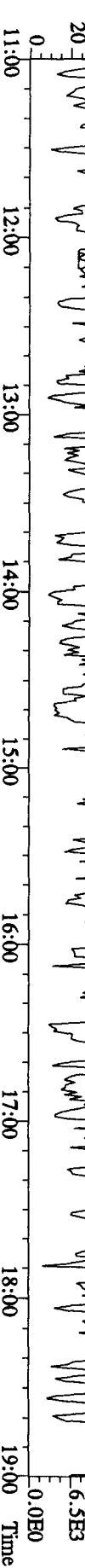
327.8840 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7760.0,1.00%,F,T)
 100% A5.85E4 A5.37E4 A6.08E4 A3.10E4



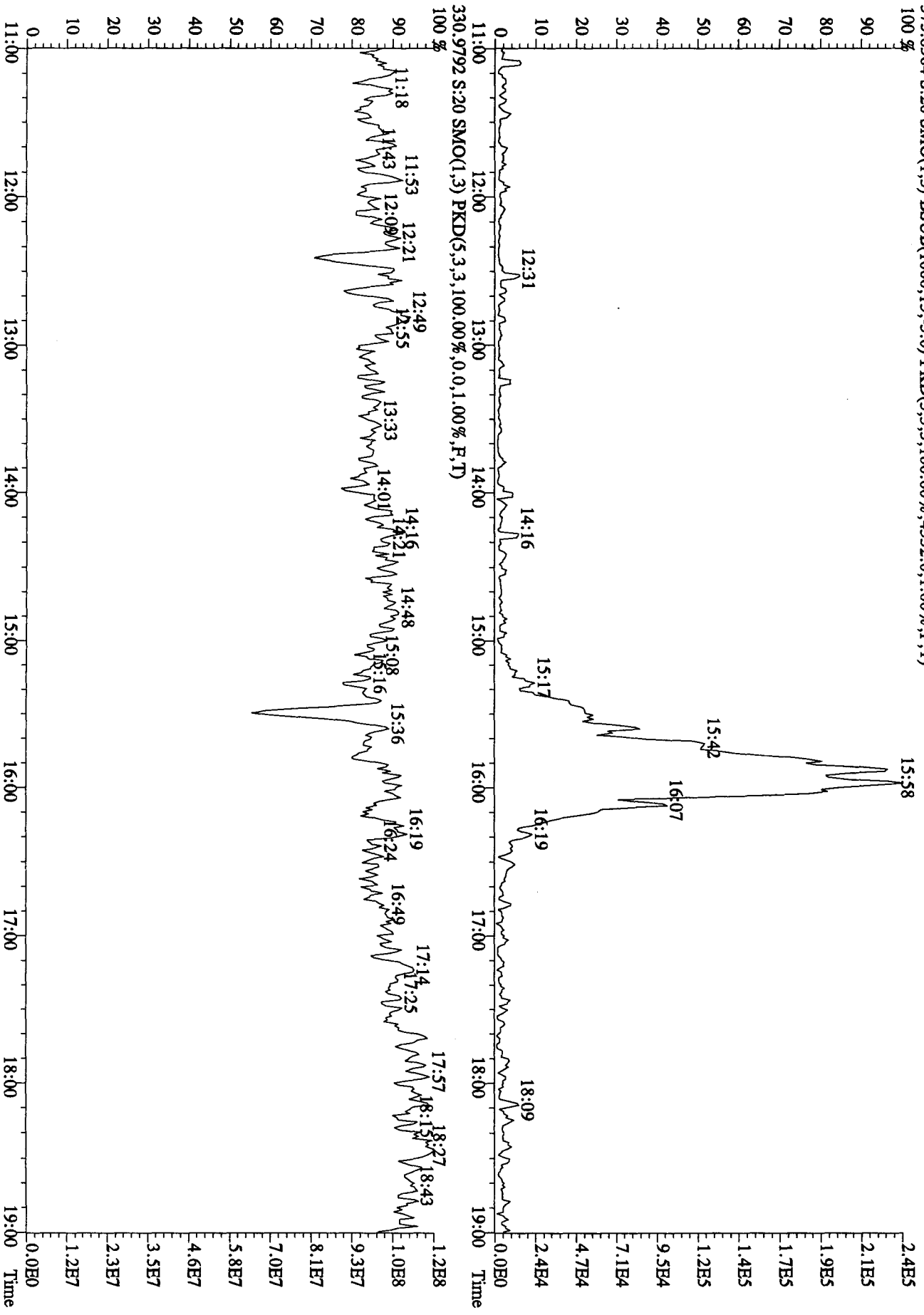
331.9368 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20924.0,1.00%,F,T)
 100% A9.41E4 A3.41E4 A3.10E4 A6.08E4



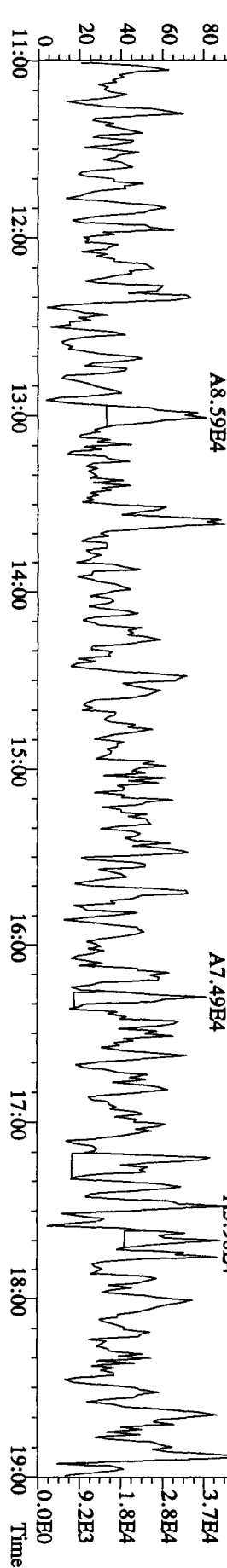
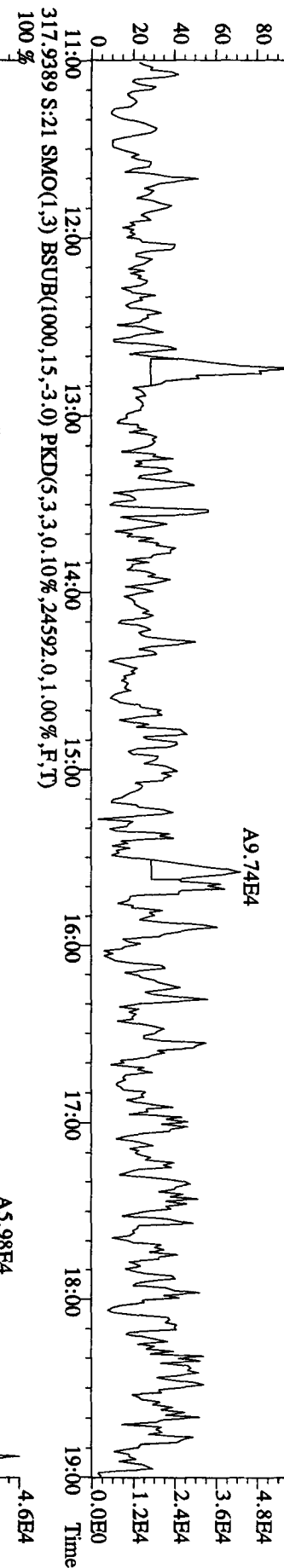
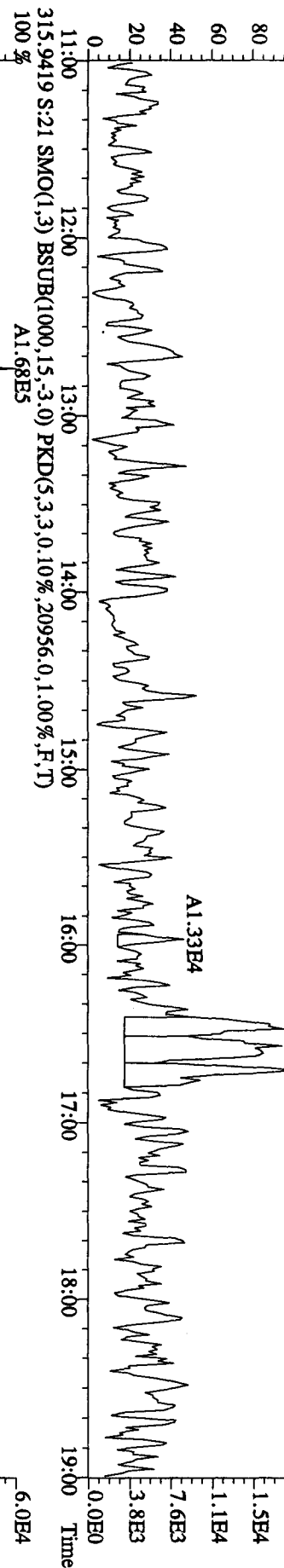
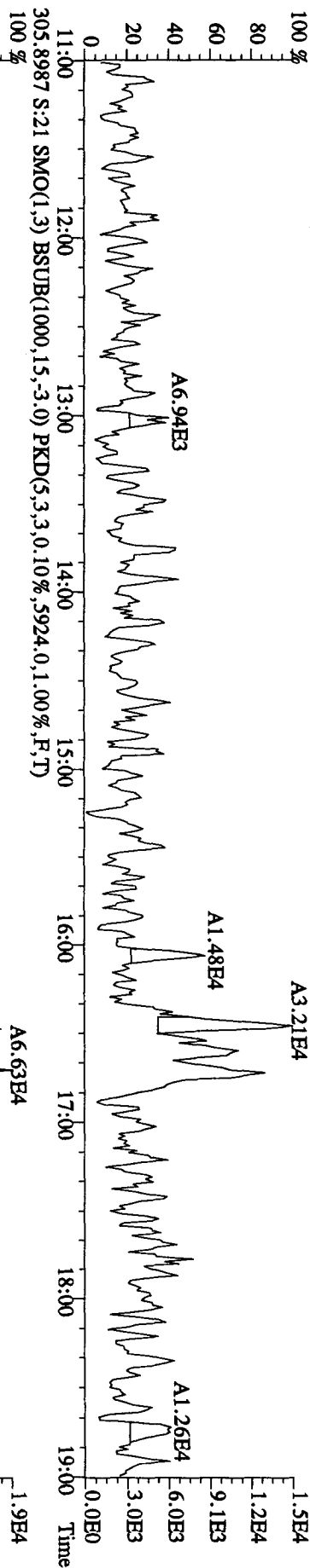
333.9339 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13384.0,1.00%,F,T)
 100% A3.2E4 A2.6E4 A1.9E4 A1.3E4 A6.5E3



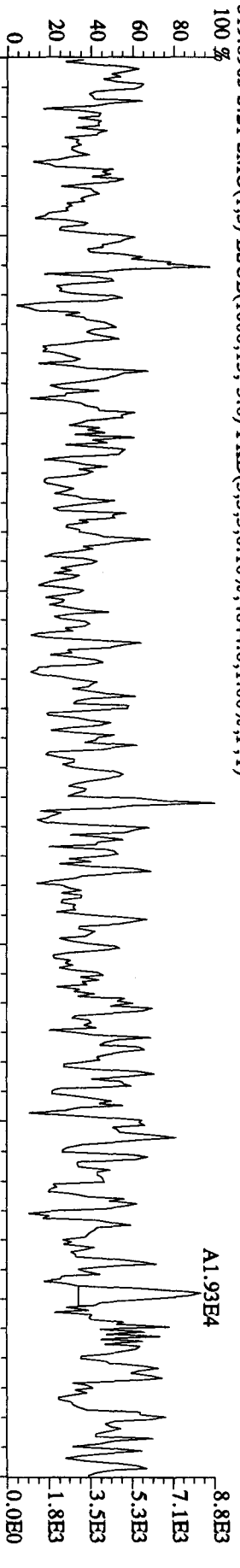
File:04NO105D2 #1-1242 Acq: 4-NOV-2010 19:57:26 GC EI+ Voltage SIR 70SE
 Sample#20 Text:CP1104A :DB-225 CPSM 3732-06 Exp:DB225RES
 375.8364 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4332.0,1.00%,F,T)



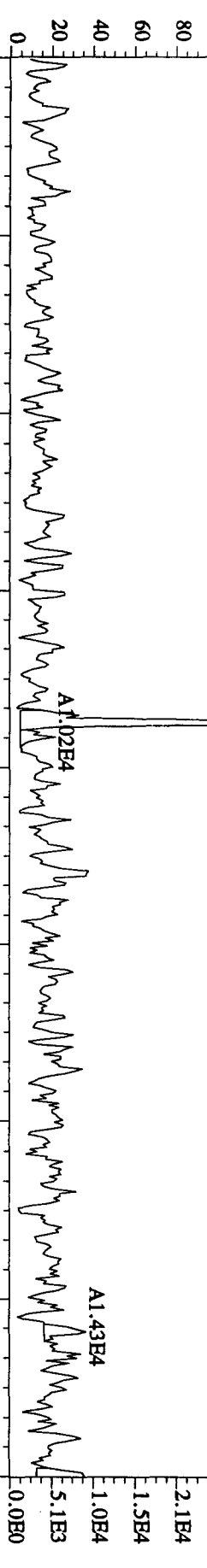
File:04NO105D2 #1-1241 Acq: 4-NOV-2010 20:33:37 GC EI + Voltage SIR 70SE
 Sample#21 Text:SB1104B :Solvent Blank C-14 Exp:DB225RES
 303.9016 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4428.0,1.00%,F,T)



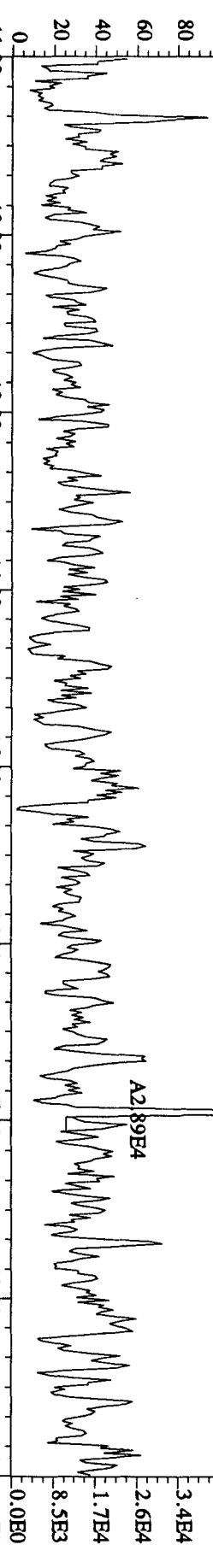
File:04NO105D2 #1-1241 Acq: 4-NOV-2010 20:33:37 GC EI+ Voltage SIR 70SE
 Sample#21 Text:SB1104B :Solvent Blank C-14 Exp:DB225RES
 319.8965 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4644.0,1.00%,F,T)



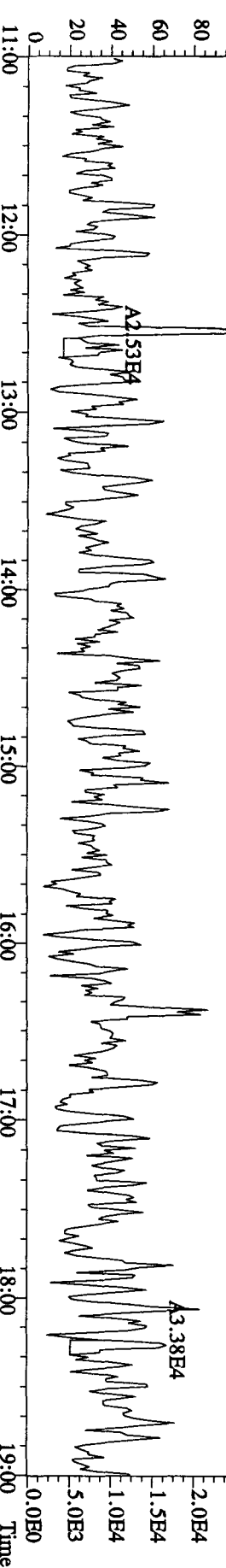
321.8936 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5780.0,1.00%,F,T)
 100%
 A7.70E4



331.9368 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17924.0,1.00%,F,T)
 100%
 A2.89E4

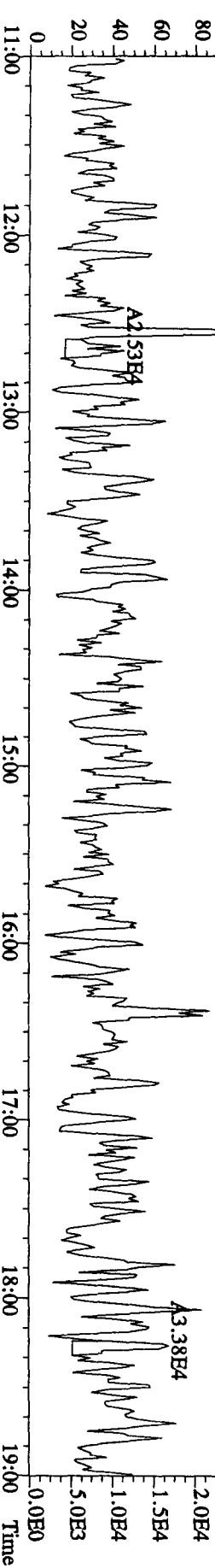
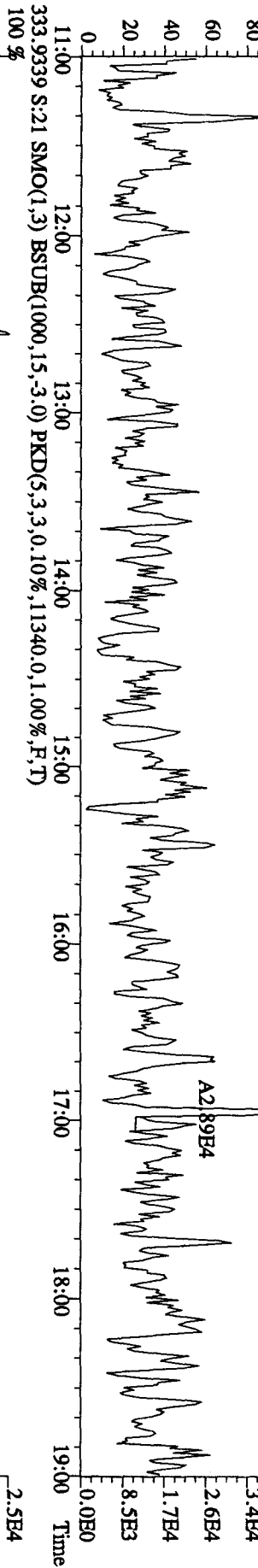
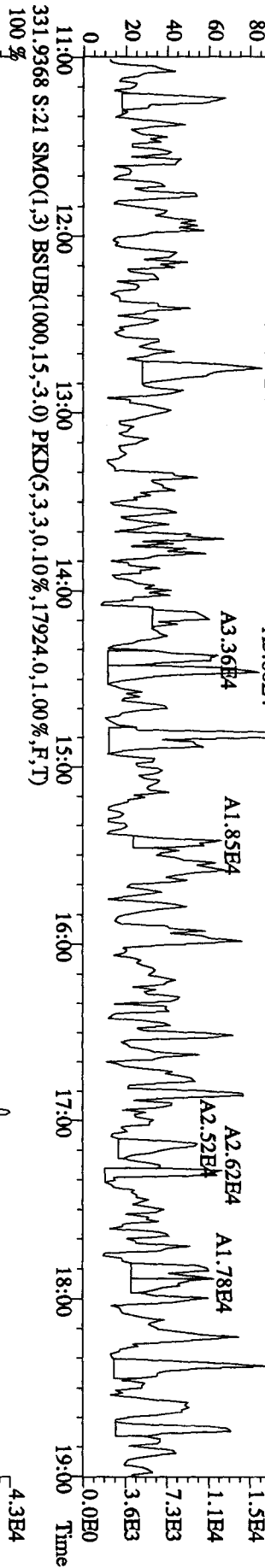
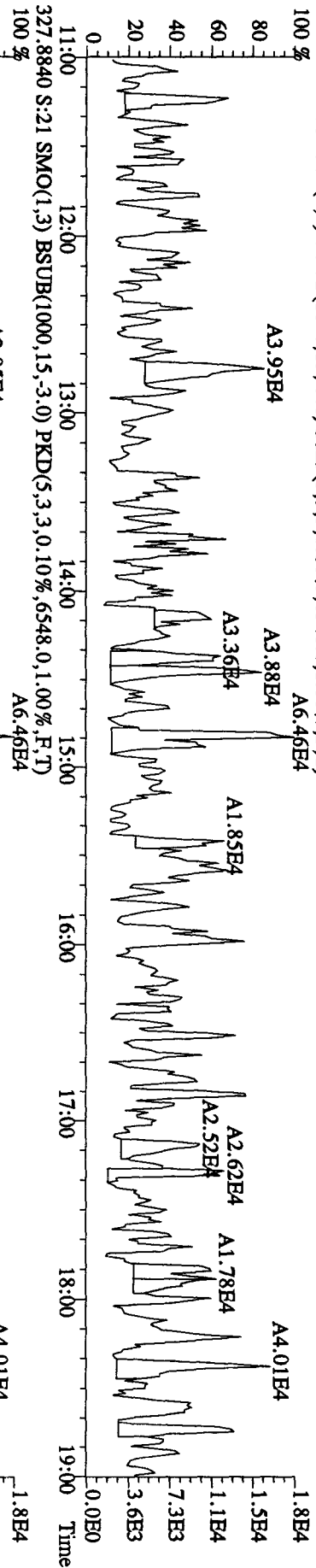


333.9339 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11340.0,1.00%,F,T)
 100%
 A2.53E4

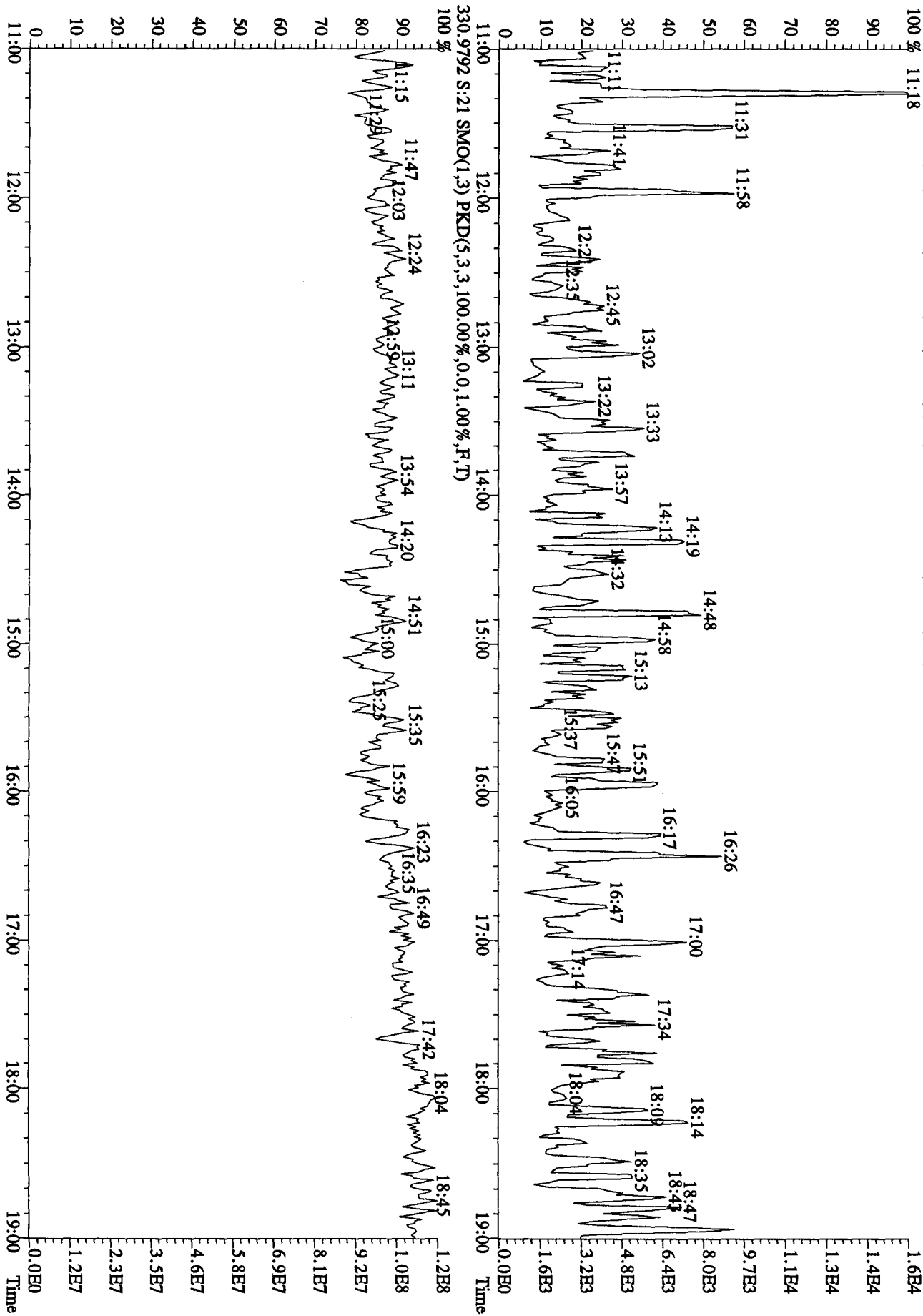


8.8E3
 7.1E3
 5.3E3
 3.5E3
 1.8E3
 0.0E0
 2.6E4
 2.1E4
 1.5E4
 1.0E4
 0.0E0
 4.3E4
 3.4E4
 2.6E4
 1.7E4
 8.5E3
 0.0E0
 2.5E4
 2.0E4
 1.5E4
 1.0E4
 5.0E3
 0.0E0

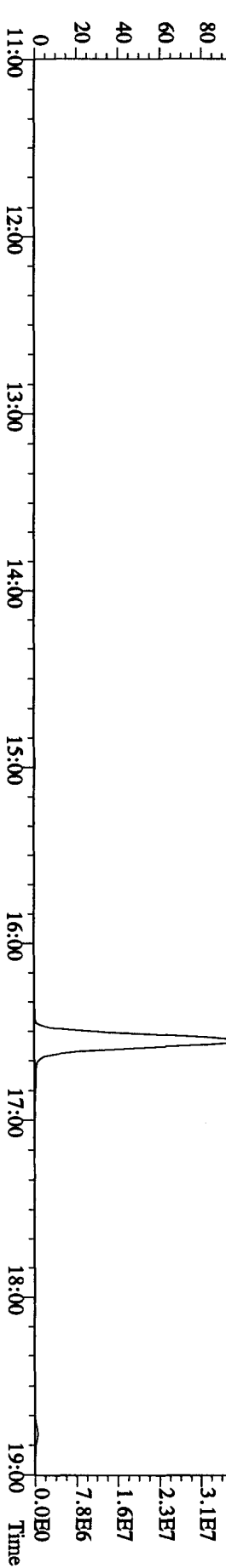
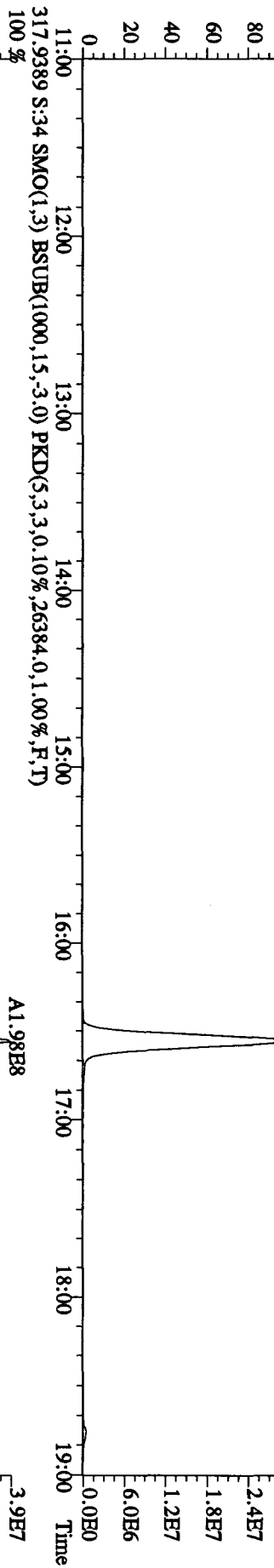
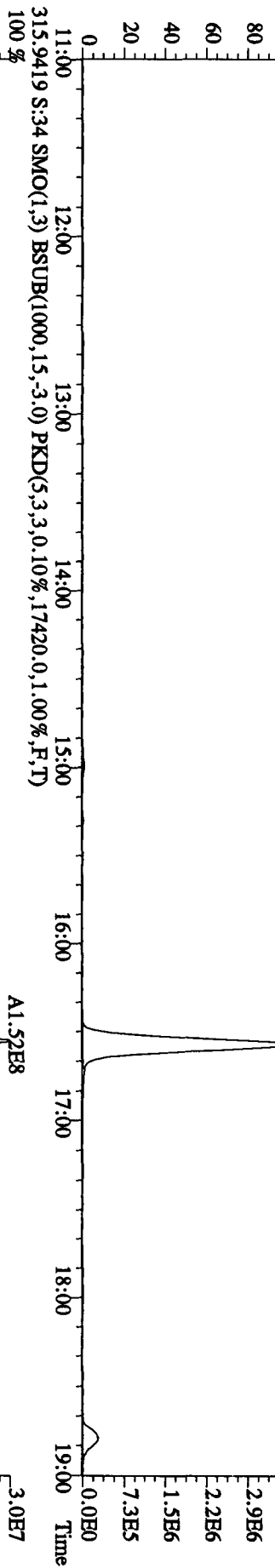
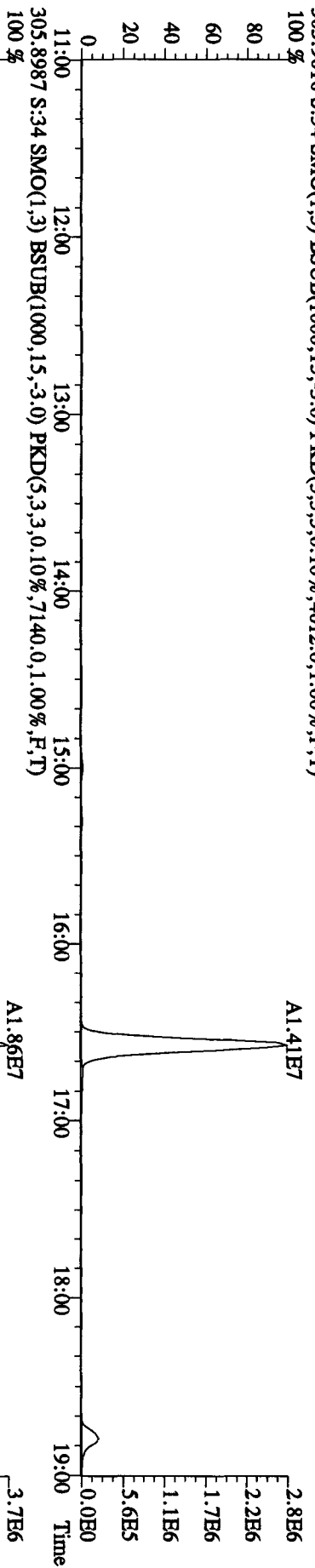
File:04NO105D2 #1-1241 Acq: 4-NOV-2010 20:33:37 GC EI+ Voltage SIR 70SE
 Sample#21 Text:SB1104B :Solvent Blank C-14 Exp:DB225RES
 327.8840 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6548.0,1.00%,F,T)
 100%



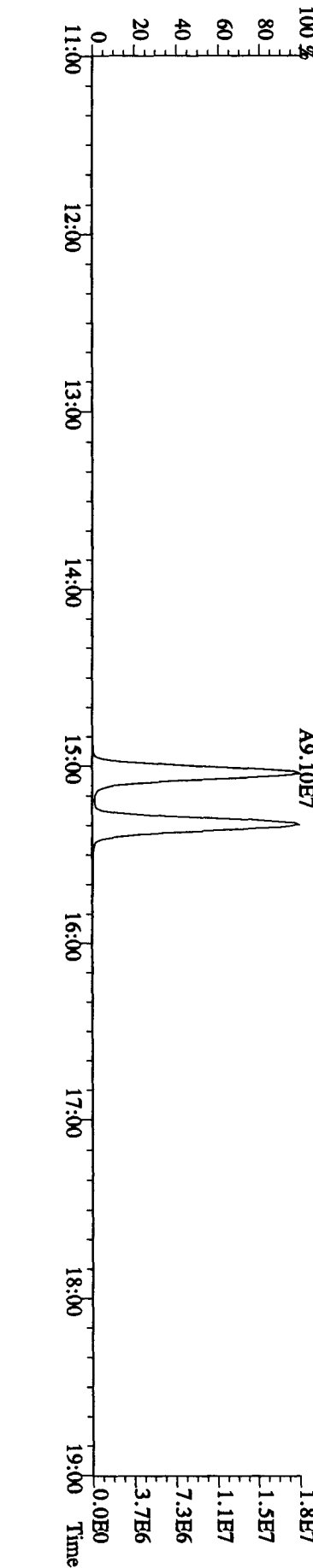
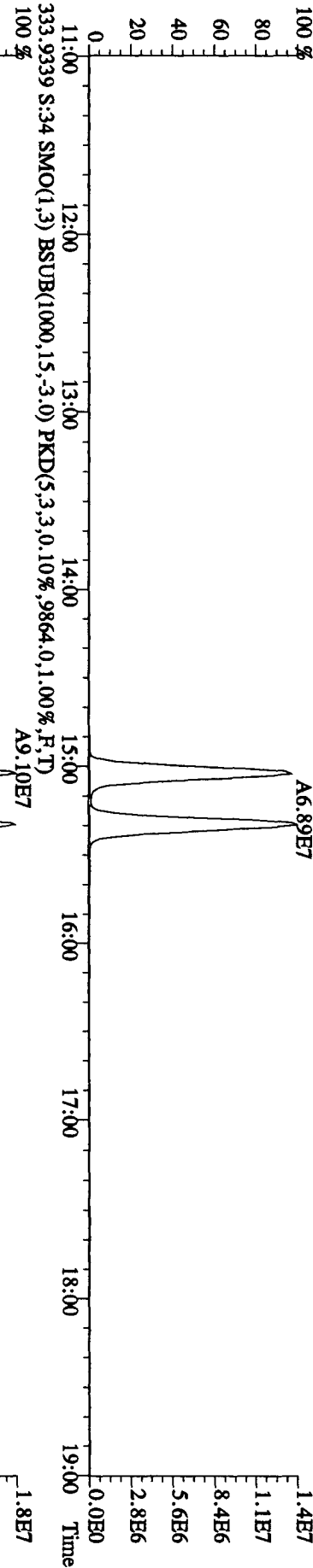
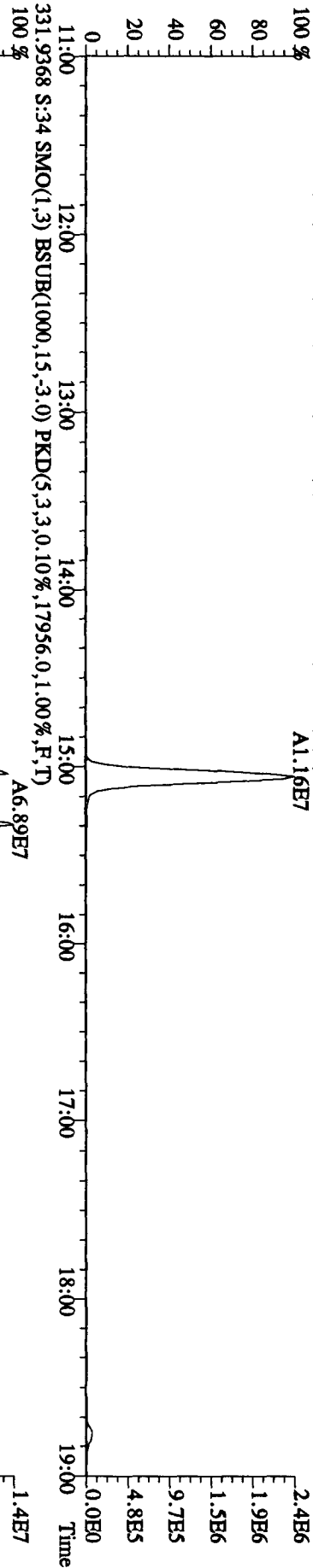
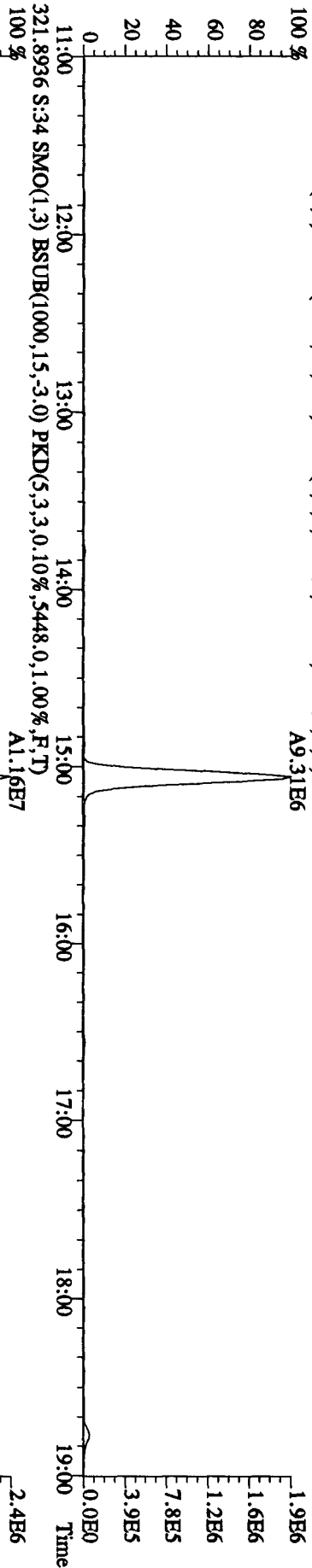
File: 04NNO105D2 #1-1241 Acq: 4-NOV-2010 20:33:37 GC EI+ Voltage SIR 70SE
 Sample#21 Text: SB1104B :Solvent Blank C-14 Exp: DB25RBS
 375.8364 S:21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3560.0,1.00%,F,T)
 100% 11:18



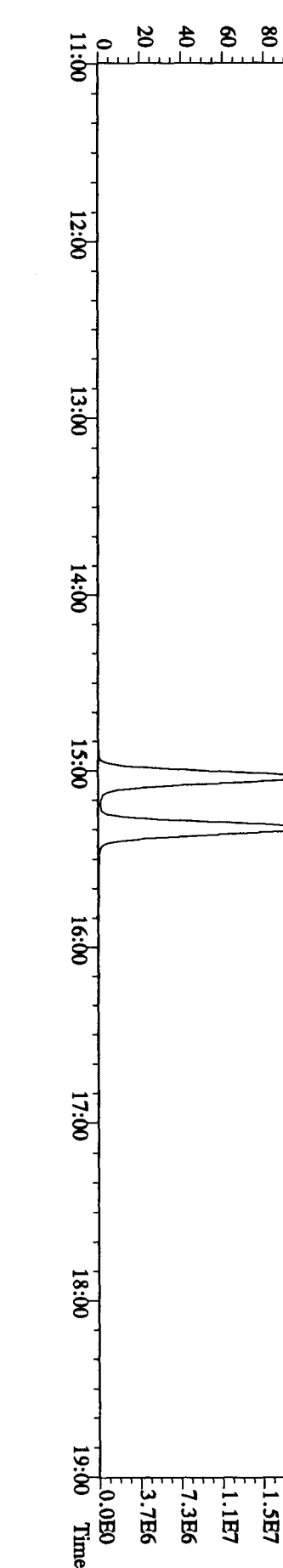
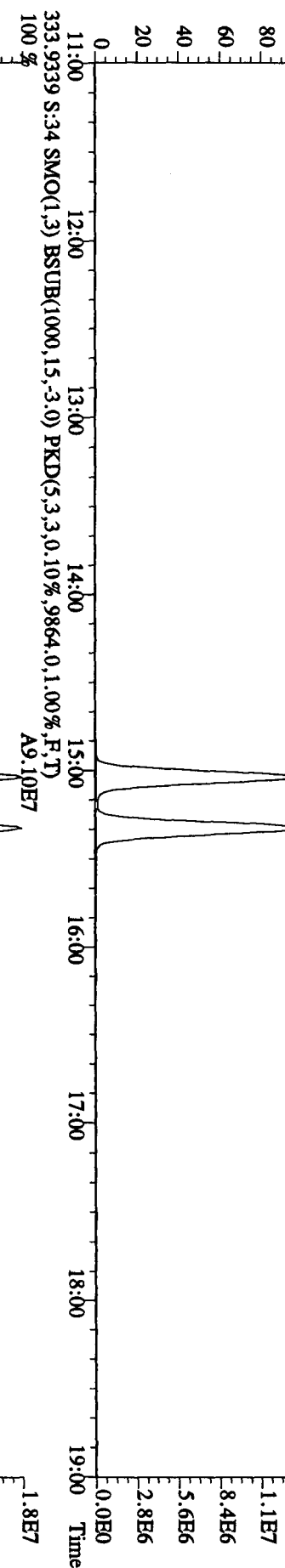
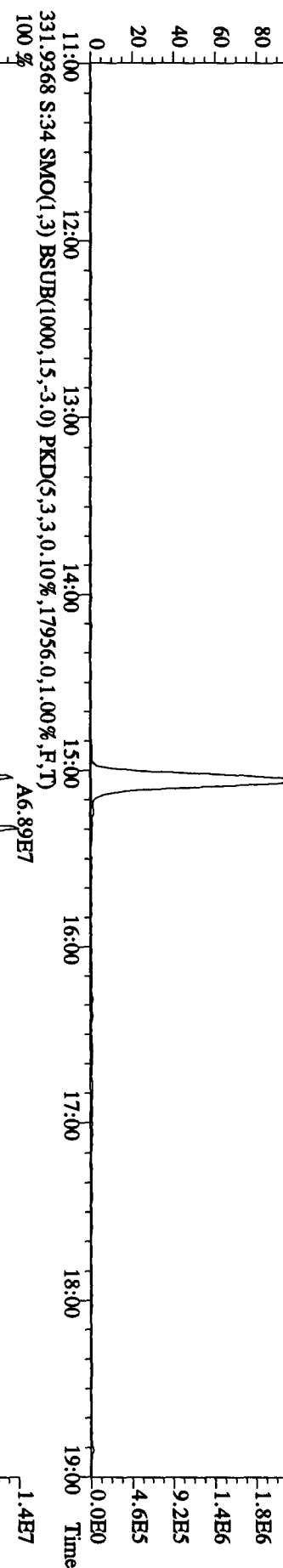
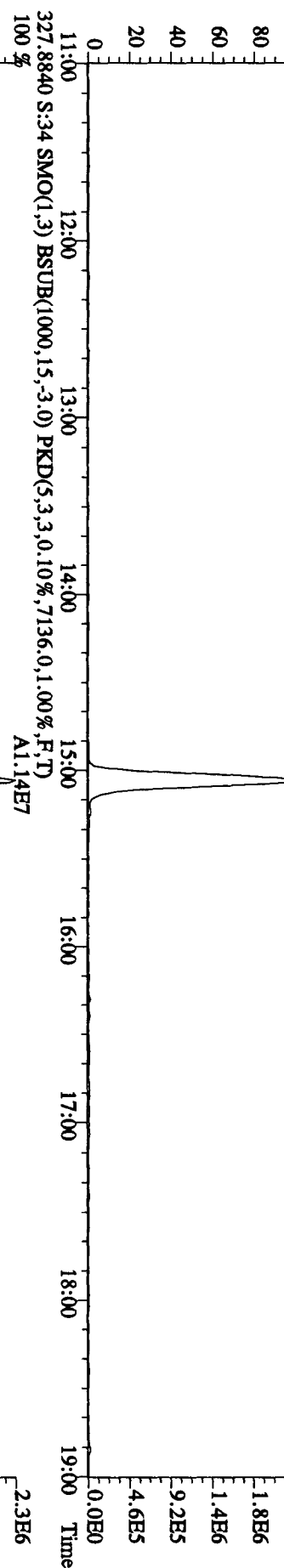
File:04N0105D2 #1-1242 Acq: 5-NOV-2010 04:23:40 GC EI+ Voltage SFR 70SE
Sample#34 Text:ST1104B :CSS 10DXN505 Exp:DB225RES
303.9016 S:34 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4612.0,1.00%,F,T)



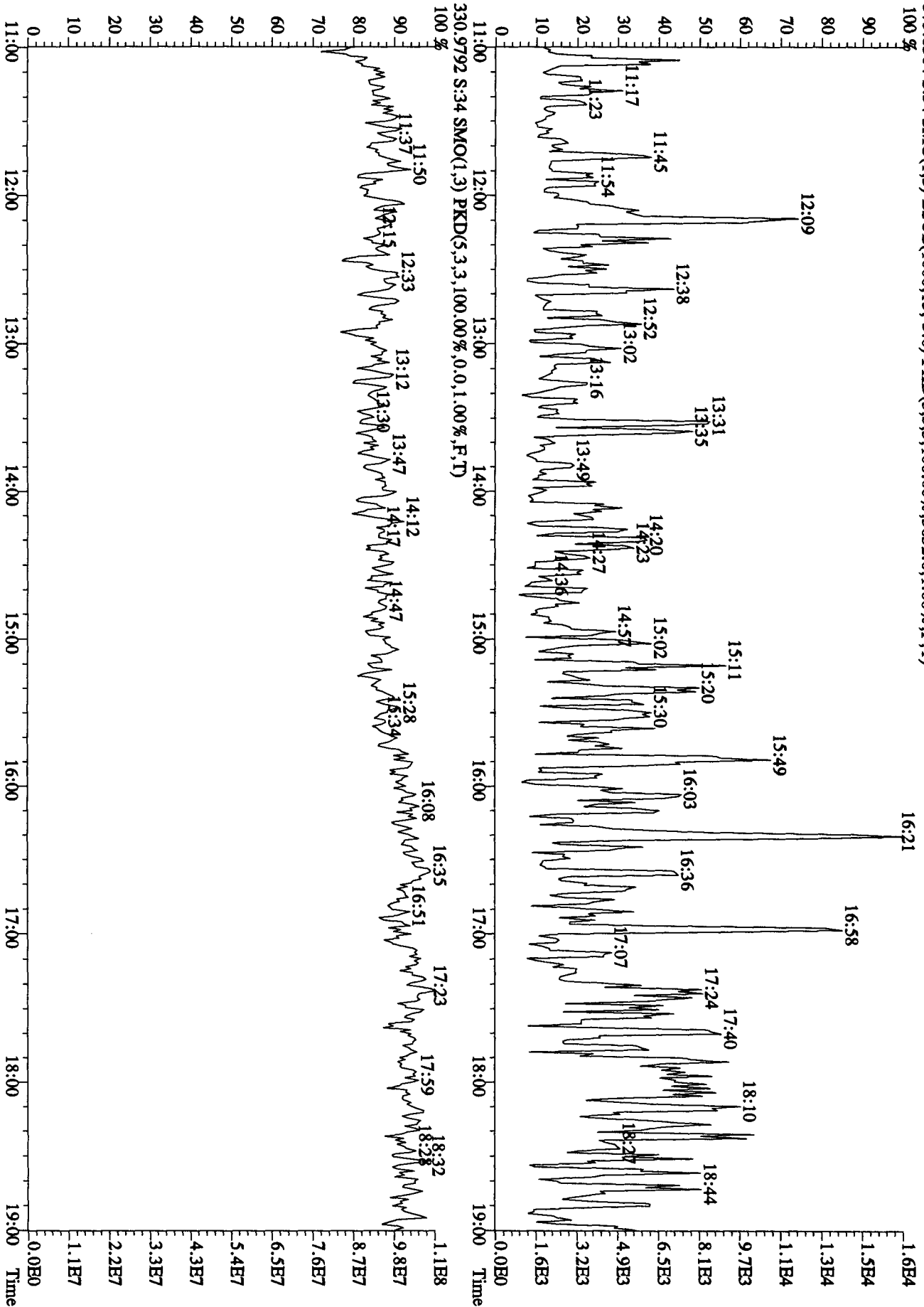
File: 04ANO105D2 #1-1242 Acq: 5-NOV-2010 04:23:40 GC EI+ Voltage SIR 70SE
 Sample#34 Text: ST1104B :CS3 10DXN505 Exp: DB25RES
 319.8965 S:34 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4552.0,1.00%,F,T)
 100% A9.31E6



File:04NO105D2 #1-1242 Acq: 5-NOV-2010 04:23:40 GC EI+ Voltage SIR 70SE
 Sample#34 Text:ST1104B :CS3 10DXN505 Exp:DB225RES
 327.8840 S:34 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7136,0,1.00%,F,T)
 100% A1.14E7



File:04NOI05D2 #1-1242 Acq: 5-NOV-2010 04:23:40 GC EI+ Voltage SIR 70SE
 Sample#34 Text:ST1104B :CS3 10DDXN505 Exp:DB225RES
 375.8364 S:34 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID TO9
 Column ID DB225
 STD ID ST110B, ST1108A
 Analyzed by KSS, MEO
 Std. Pkg. By KSS
 Std. Pkg. Reviewed By AS

Associated ICAL DB225AIR1029105D2
 Instrument ID 5D2
 STD Solution C63 100XMS05
 Date Analyzed 11/8/10
 Date Std. Pkg. Assembled 11/9/10
 Date Std. Pkg. Reviewed 11-09-10

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: ST1108 File text: ST1108 :CS3 10DXN505
Run #6 Filename 08NO105D2 S: 2 I: 1
Acquired: 8-NOV-10 11:28:30 Processed: 9-NOV-10 11:30:01
Run: 08NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2 Results: 08NO105D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	155275100	0.76 y	15:19	-	100.00	-	n
13C-2,3,7,8-TCDF	296002000	0.81 y	16:32	1.91	100.00	16.5	n
2,3,7,8-TCDF	30183200	0.84 y	16:33	1.02	10.00	-3.8	n
13C-2,3,7,8-TCDD	146455400	0.75 y	15:02	0.94	100.00	-1.5	n
2,3,7,8-TCDD	19111510	0.82 y	15:03	1.30	10.00	5.4	n
37Cl-2,3,7,8-TCDD	19899940	1.00 y	15:03	1.36	10.00	-11.5	n

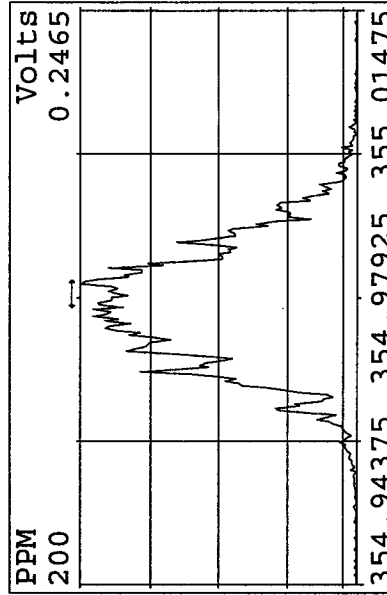
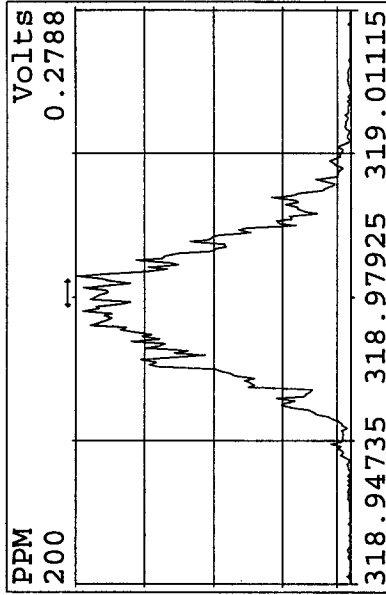
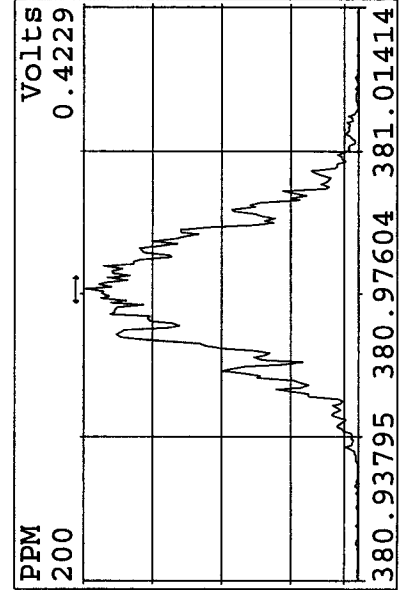
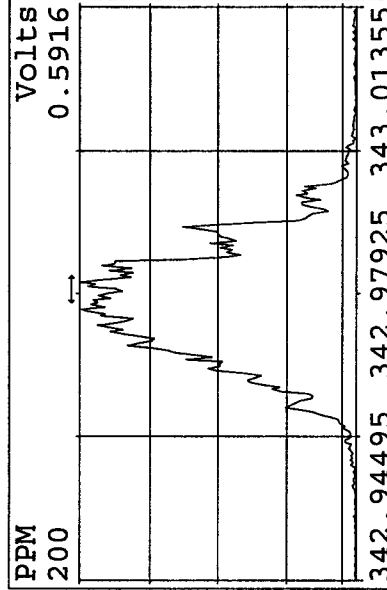
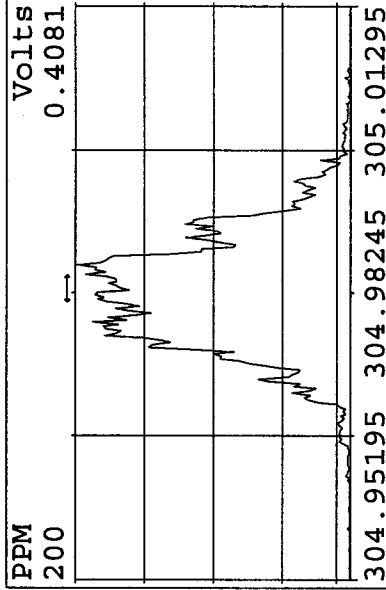
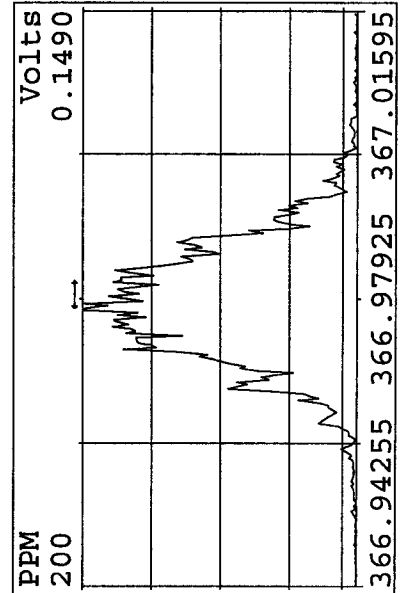
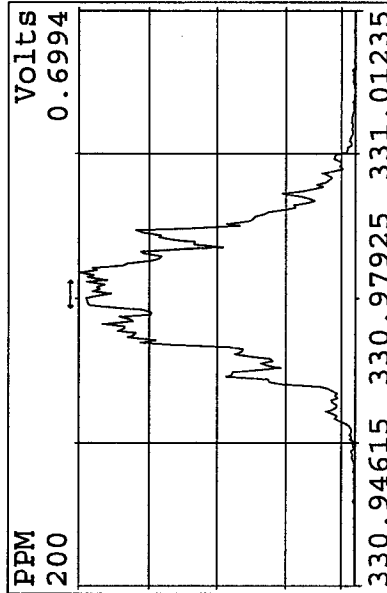
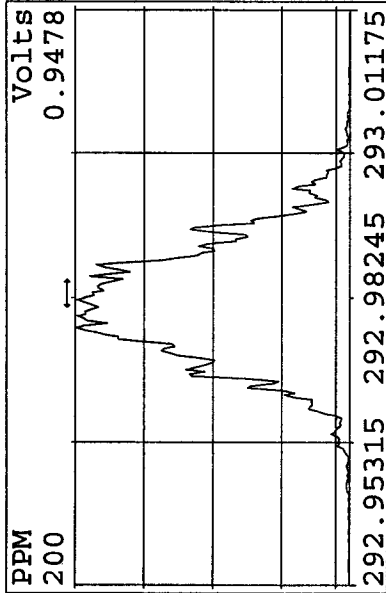
Run text: ST1108A File text: ST1108A :CS3 10DXN505
Run #9 Filename 08NO105D2 S: 18 I: 1
Acquired: 8-NOV-10 21:09:44 Processed: 9-NOV-10 11:30:04
Run: 08NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2 Results: 08NO105D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	150599600	0.76 y	15:18	-	100.00	-	n
13C-2,3,7,8-TCDF	271248000	0.80 y	16:32	1.80	100.00	10.1	n
2,3,7,8-TCDF	26920300	0.80 y	16:33	0.99	10.00	-6.3	n
13C-2,3,7,8-TCDD	138905100	0.76 y	15:02	0.92	100.00	-3.6	n
2,3,7,8-TCDD	16701270	0.84 y	15:03	1.20	10.00	-2.9	n
37Cl-2,3,7,8-TCDD	18937320	1.00 y	15:03	1.36	10.00	-11.2	n

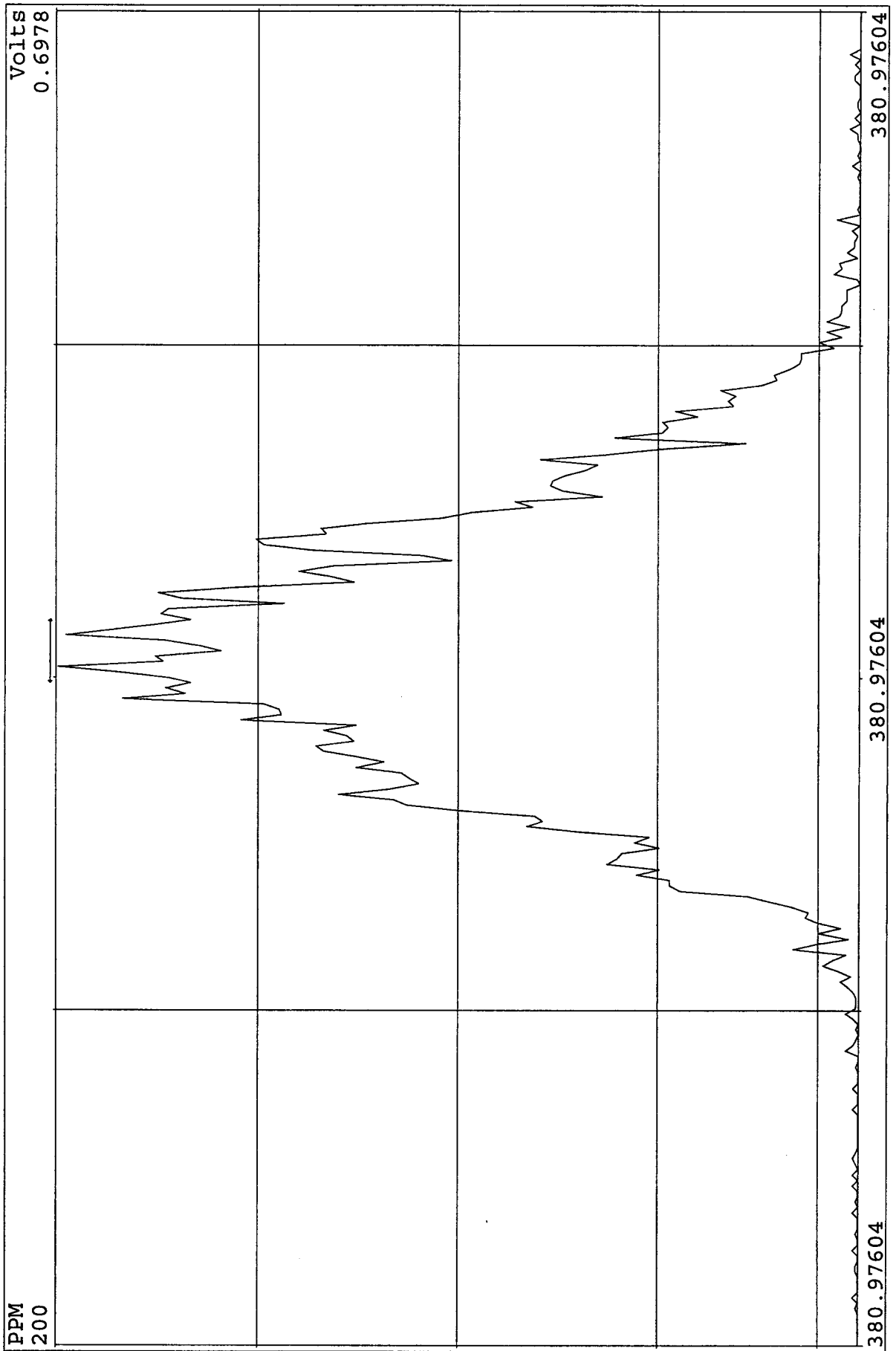
data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
08NO105D2	1	CP1108	DB-225 CPSM 3732-06				1.0000	
08NO105D2	2	ST1108	CS3 10DXN505				1.0000	
08NO105D2	3	SB1108	Solvent Blank C-14				1.0000	
08NO105D2	4	L84N6-1-AA	G0J260480-13	20	TO-9/AIR	98	0.5000	Sam
08NO105D2	5	L8WQN-1-AC	G0J210623-3	20	1613B/SOLID	5	20.4200	g
08NO105D2	6	L8WQP-1-AC	G0J210623-4	20	1613B/SOLID		10.3500	g
08NO105D2	7	L8WQQ-1-AC	G0J210623-5	20	1613B/SOLID		20.0400	g
08NO105D2	8	L8WQR-1-AD	G0J210623-6	20	1613B/SOLID		20.0800	g
08NO105D2	9	L8WQT-1-AD	G0J210623-7	20	1613B/SOLID		20.1600	g
08NO105D2	10	L8WQV-1-AD	G0J210623-8	20	1613B/SOLID		10.8600	g
08NO105D2	11	L8WQW-1-AD	G0J210623-9	20	1613B/SOLID		20.6900	g
08NO105D2	12	L8WQX-1-AD	G0J210623-10	20	1613B/SOLID		20.5000	g
08NO105D2	13	L8WQ0-1-AC	G0J210623-11	20	1613B/SOLID		10.2200	g
08NO105D2	14	L8WQ1-1-AD	G0J210623-12	20	1613B/SOLID		10.0000	g
08NO105D2	15	L8WQ4-1-AD	G0J210623-15	20	1613B/SOLID		10.0100	g
08NO105D2	16	L8WQ5-1-AD	G0J210623-16	20	1613B/SOLID		10.9600	g
08NO105D2	17	SB1108A	Solvent Blank C-14				1.0000	
08NO105D2	18	ST1108A	CS3 10DXN505				1.0000	
08NO105D2	19	CP1108A	DB-225 CPSM 3732-06				1.0000	
08NO105D2	20	CP1108A	DB-225 CPSM 3732-06				1.0000	
08NO105D2	21	SB1108B	Solvent Blank C-14				1.0000	
08NO105D2	22	L8WQ8-1-AD	G0J210623-19	20	1613B/SOLID	5	10.4800	g
08NO105D2	23						1.0000	
08NO105D2	24						1.0000	
08NO105D2	25		KSS, MEO 11/08/10				1.0000	
08NO105D2	26						1.0000	
08NO105D2	27						1.0000	

*Logfile
11/10/10
KSS*

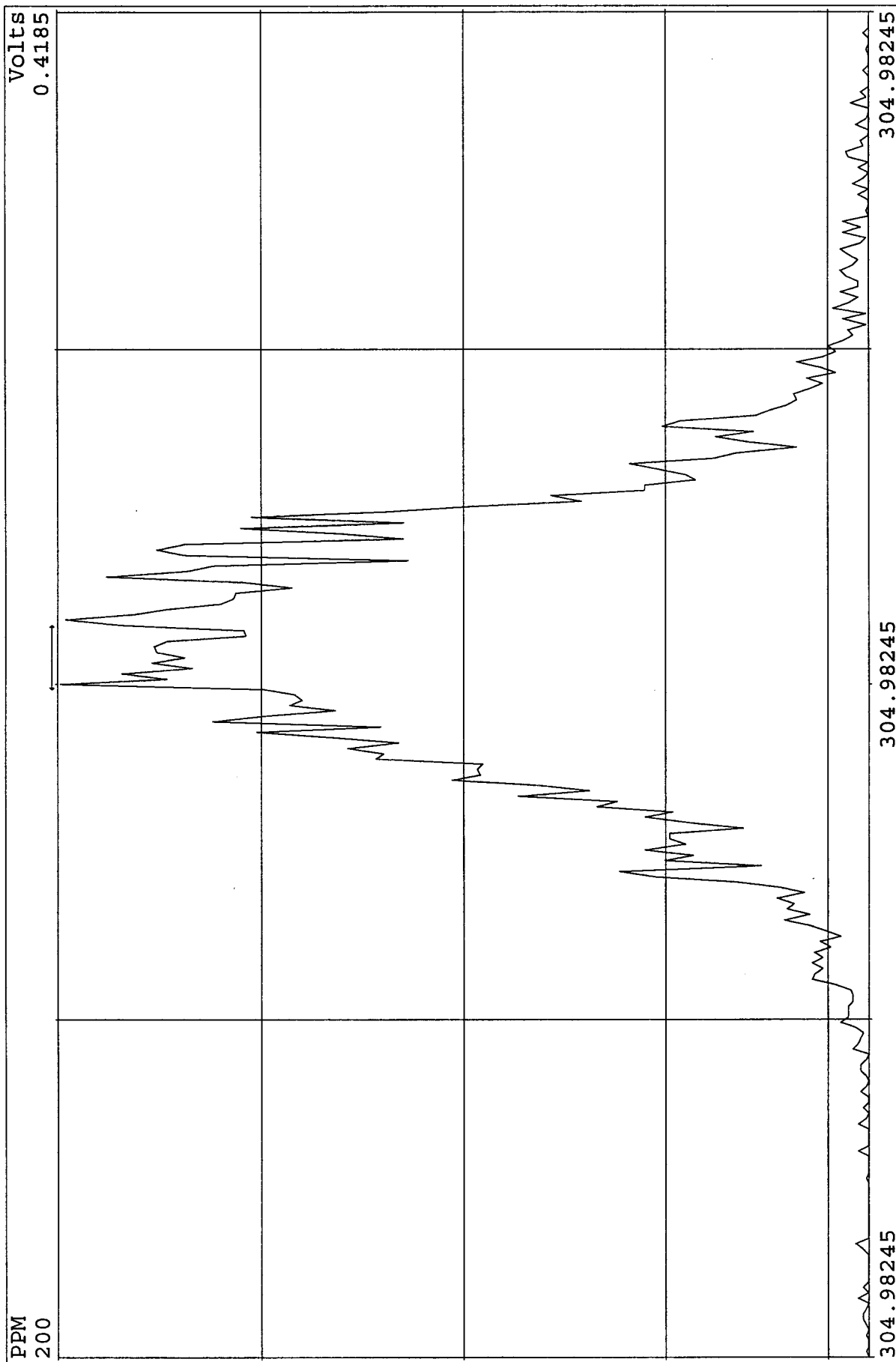
Peak Locate Examination: 8-NOV-2010:10:51 File:08NO105D2
Experiment:DB225RES Function:1 Reference:PFK



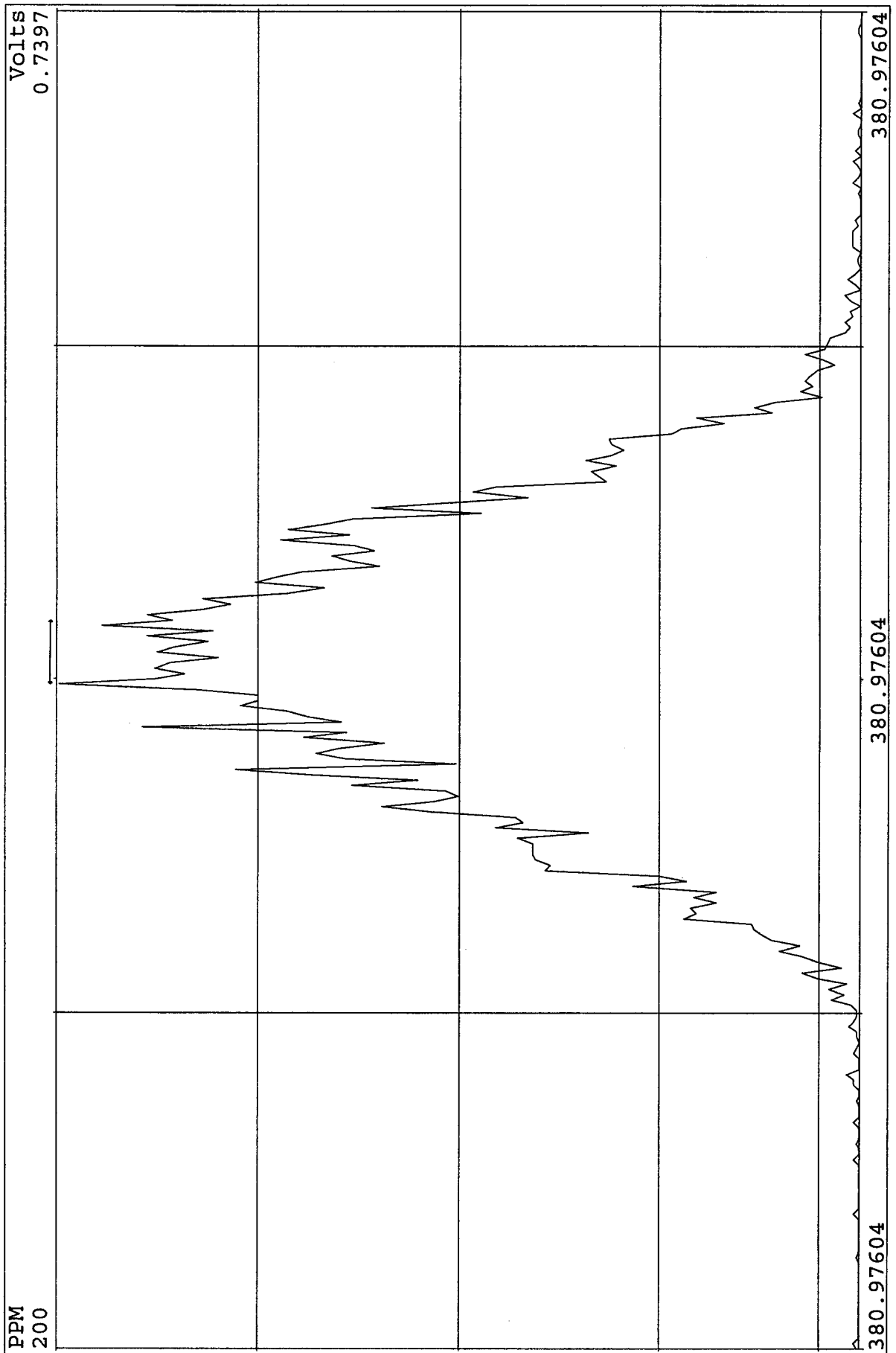
SIRLM Examination: 8-NOV-2010:20:58 File:08NO105D2
Experiment:DB225RES Function:2



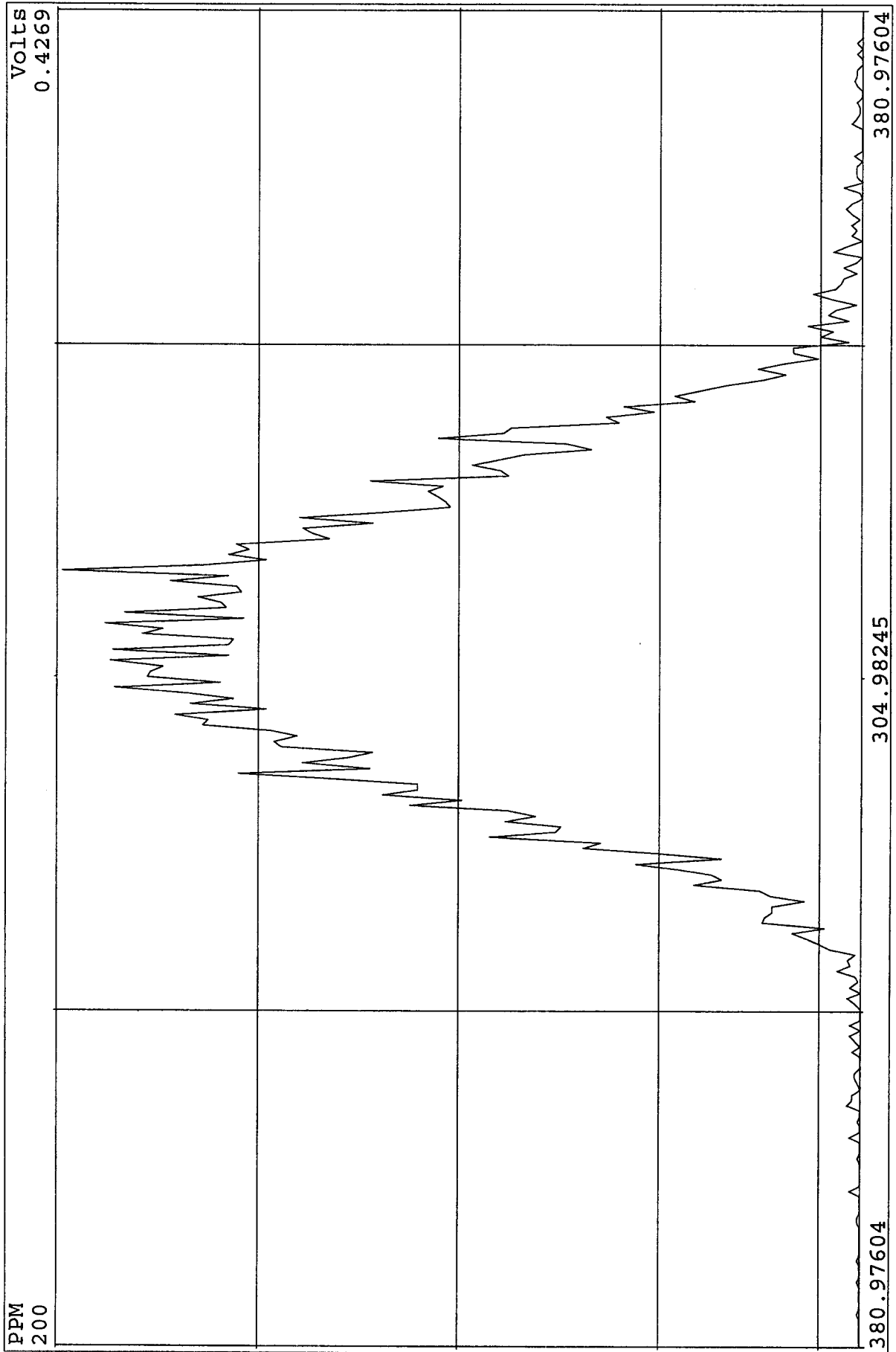
SIRLM Examination: 8-NOV-2010:21:01 File:08NO105D2
Experiment:DB225RES Function:3



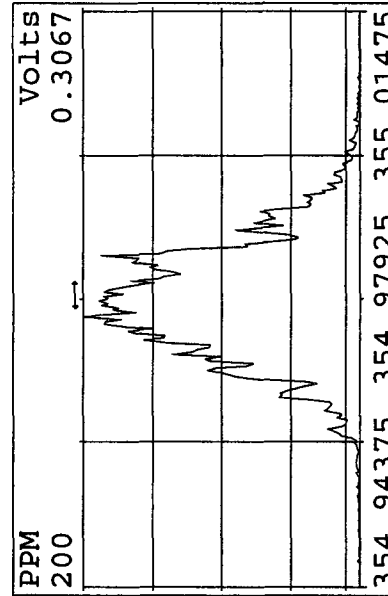
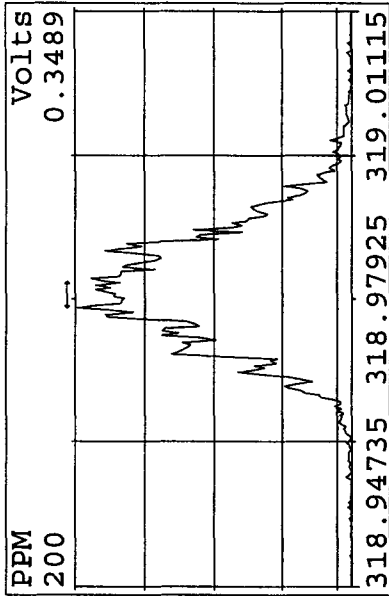
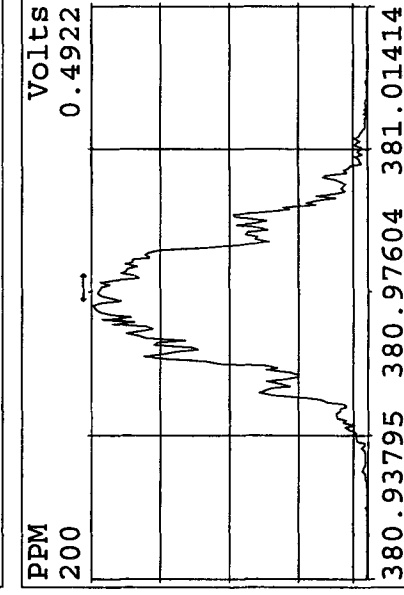
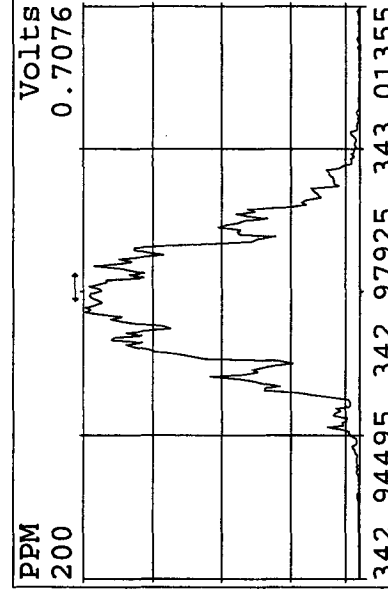
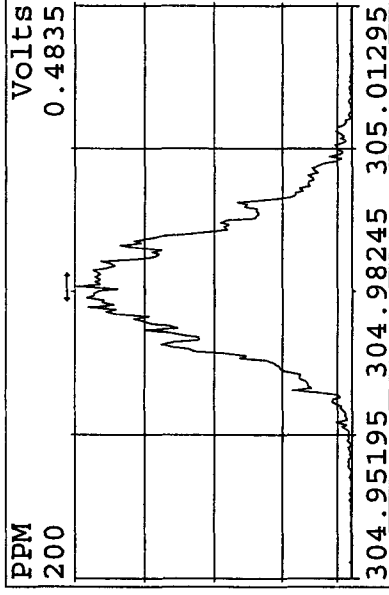
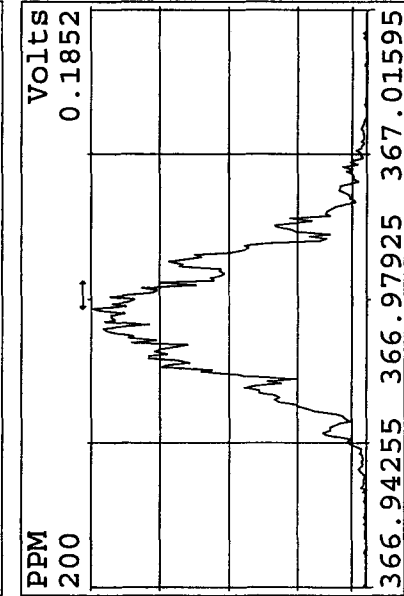
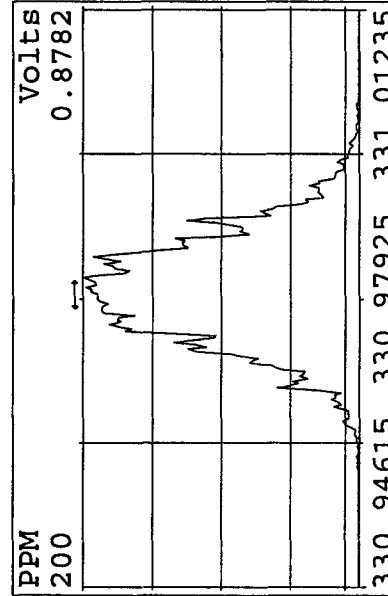
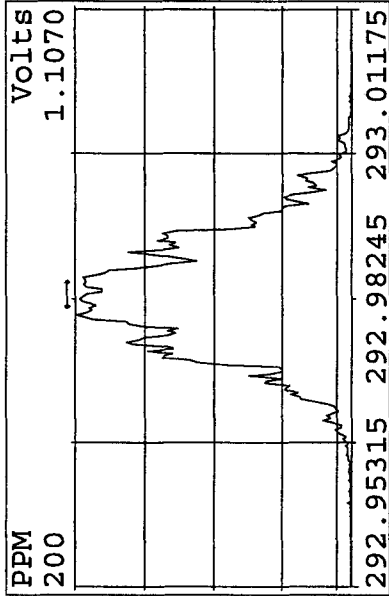
SIRLM Examination: 8-NOV-2010:21:35 File:08NO105D2
Experiment:DB225RES Function:2



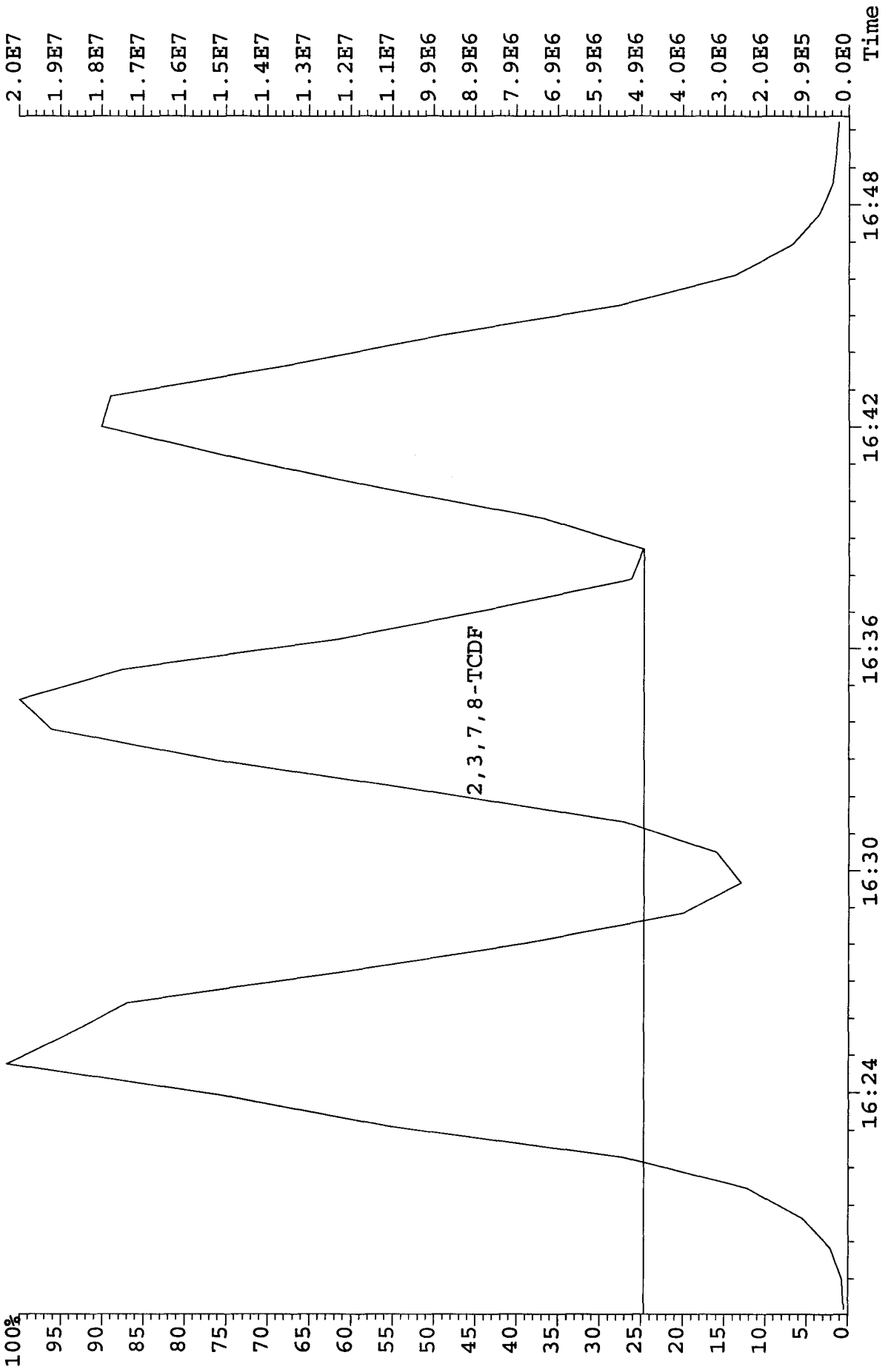
SIRLM Examination: 8-NOV-2010:21:37 File:08NO105D2
Experiment:DB225RES Function:3



Peak Locate Examination: 8-NOV-2010:23:18 File:RESCHK08NO105D2
 Experiment:DB225RES Function:1 Reference:PFK



File: 08NO105D2 #1-1242 Acq: 8-NOV-2010 10:52:12 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1108 :DB-225 CPSM 3732-06 Exp:DB225RES
 305.8987



Run: 08NO105D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

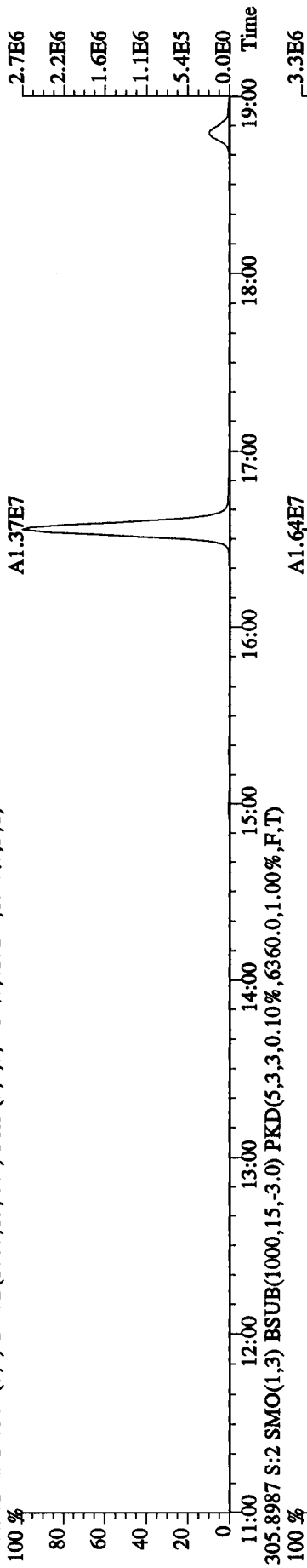
ST1029B : CS-1 10DXN503 AM ST1029C : CS-2 10DXN504 AM ST1029D : CS-3 10DXN505 AM

ST1029E : CS-4 10DXN506 AM ST1029F : CS-5 10DXN507 AM

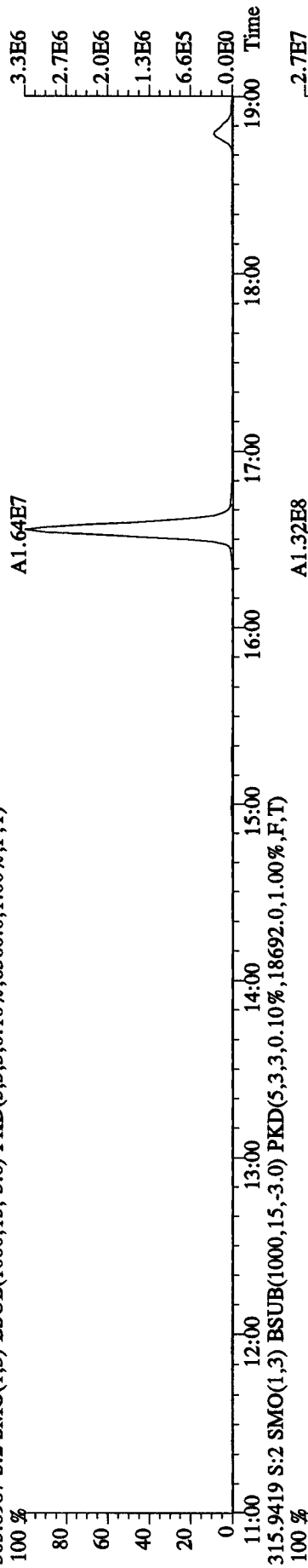
290C10B5D229OC10B5D229OC10B5D229OC10B5D229OC10B5D229OC10B5D2

Name	Mean	S. D.	%RSD	S3	RRF1	S4	RRF2	S5	RRF3	S6	RRF4	S7	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.636	0.105	6.40 %	1.59	1.63	1.63	1.78	1.50	1.50	1.68	1.68	1.68	1.68
2,3,7,8-TCDF	1.060	0.038	3.59 %	1.06	1.11	1.11	1.01	1.08	1.08	1.04	1.04	1.04	1.04
13C-2,3,7,8-TCDD	0.957	0.024	2.46 %	0.97	0.94	0.94	0.99	0.93	0.93	0.95	0.95	0.95	0.95
2,3,7,8-TCDD	1.238	0.033	2.64 %	1.29	1.24	1.24	1.20	1.25	1.25	1.21	1.21	1.21	1.21
37Cl-2,3,7,8-TCDD	1.536	0.126	8.21 %	1.76	1.45	1.45	1.51	1.49	1.49	1.47	1.47	1.47	1.47

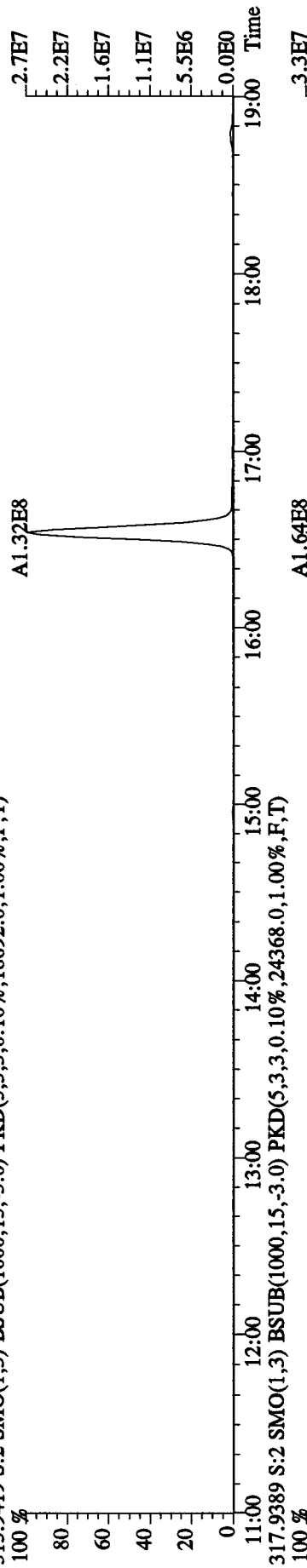
File:08NO105D2 #1-1241 Acq: 8-NOV-2010 11:28:30 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1108 :CS3 10DXN505 Exp:DB225RES
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4292.0,1.00%,F,T)



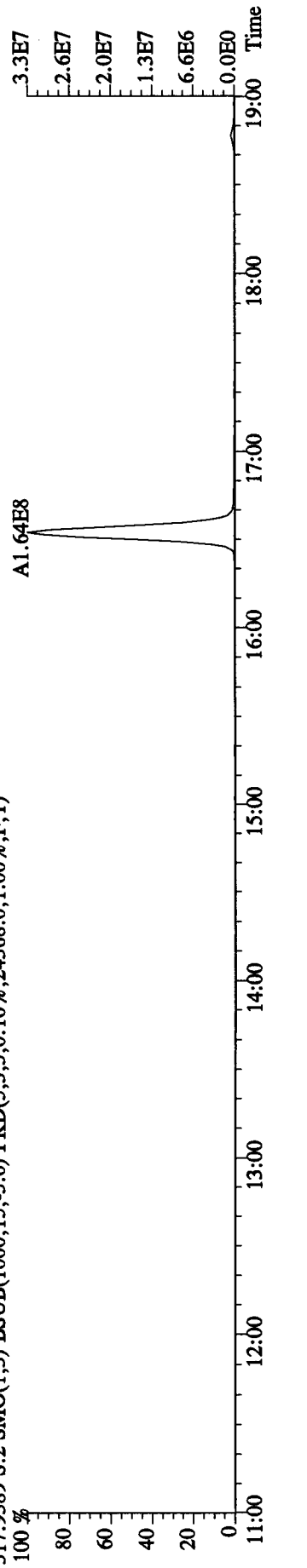
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6360.0,1.00%,F,T)



315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18692.0,1.00%,F,T)



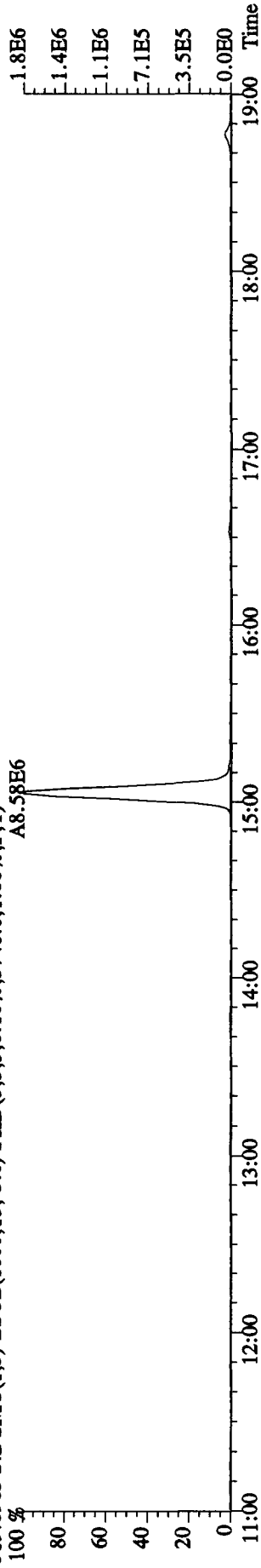
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24368.0,1.00%,F,T)



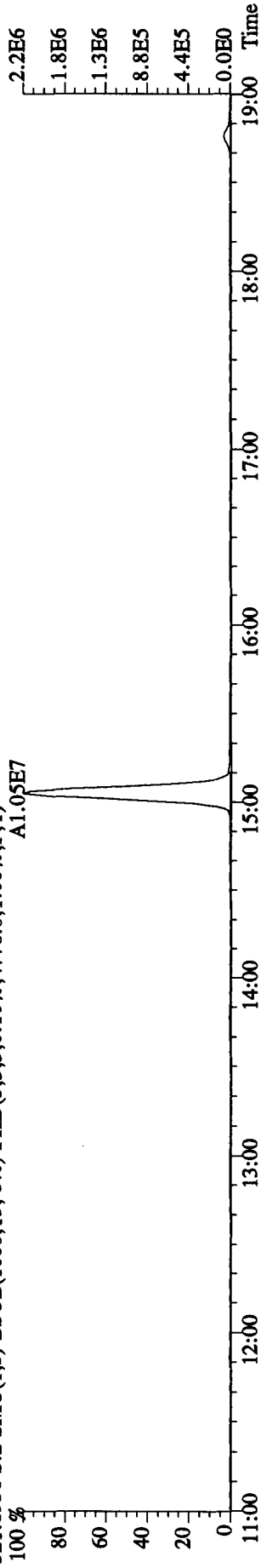
File:08NO105D2 #1-1241 Acq: 8-NOV-2010 11:28:30 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST1108 :CS3 10DXN505 Exp:DB225RES

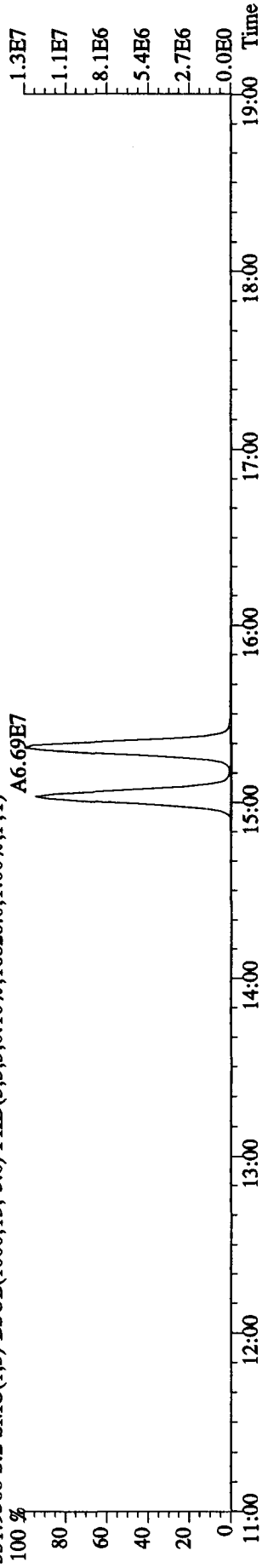
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)



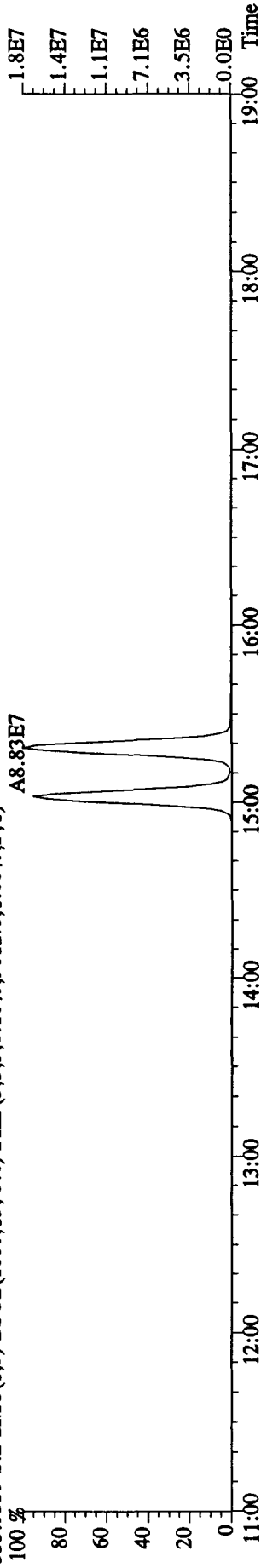
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4776.0,1.00%,F,T)



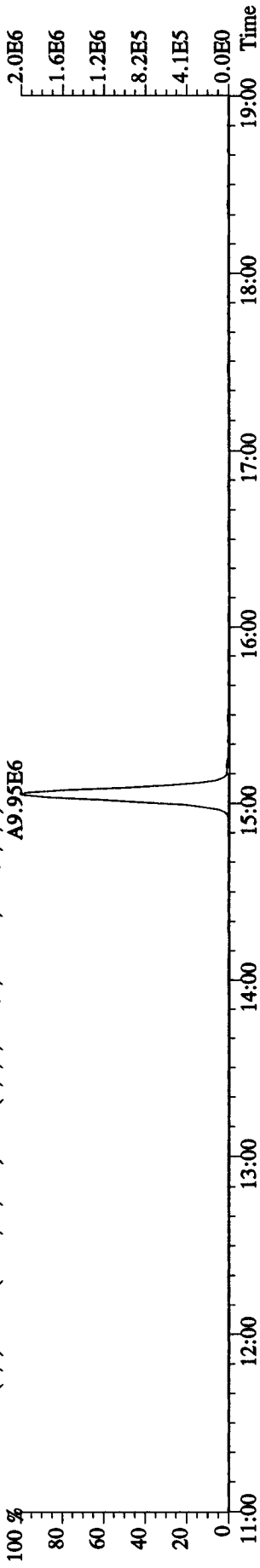
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16828.0,1.00%,F,T)



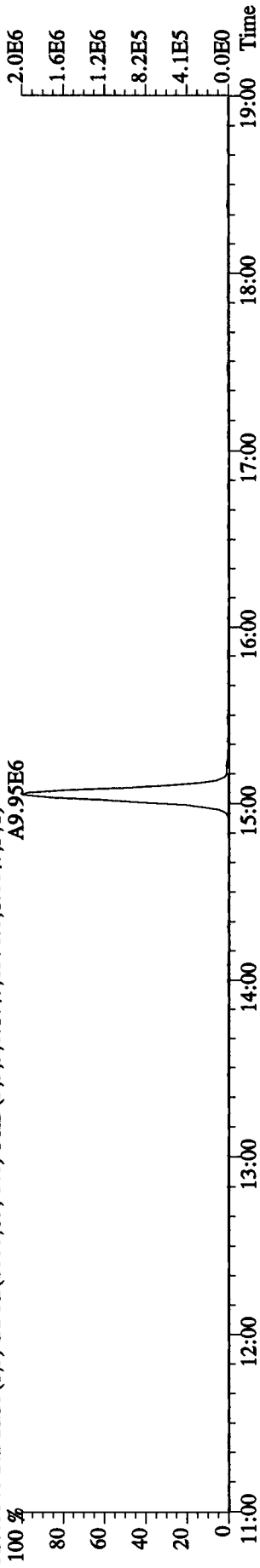
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9012.0,1.00%,F,T)



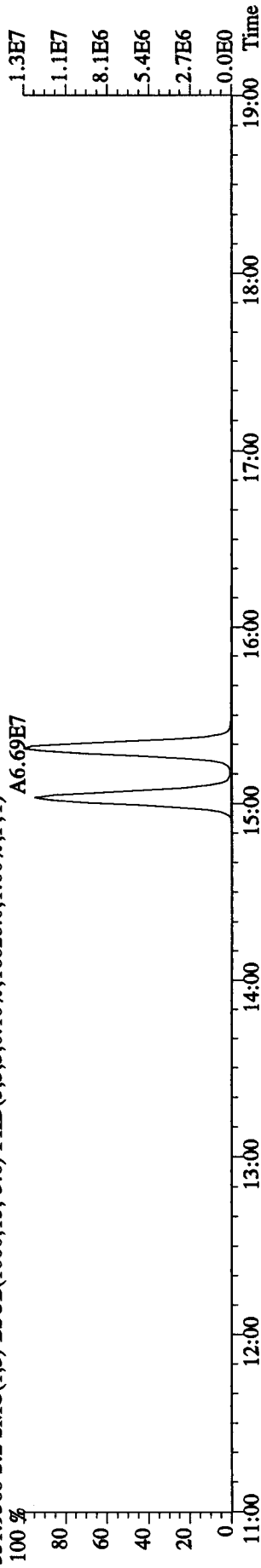
File:08NO105D2 #1-1241 Acq: 8-NOV-2010 11:28:30 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1108 :CS3 10DXN505 Exp:DB225RES
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6376.0,1.00%,F,T)
 100 % A9.95E6



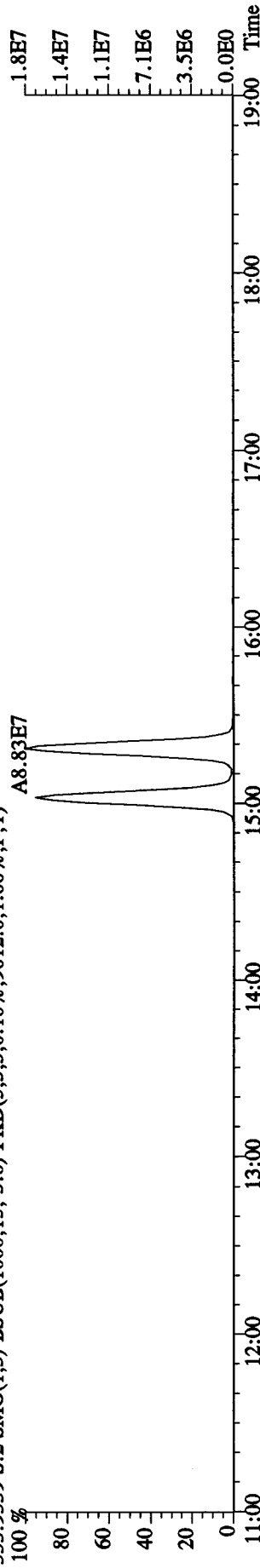
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6376.0,1.00%,F,T)
 100 % A9.95E6



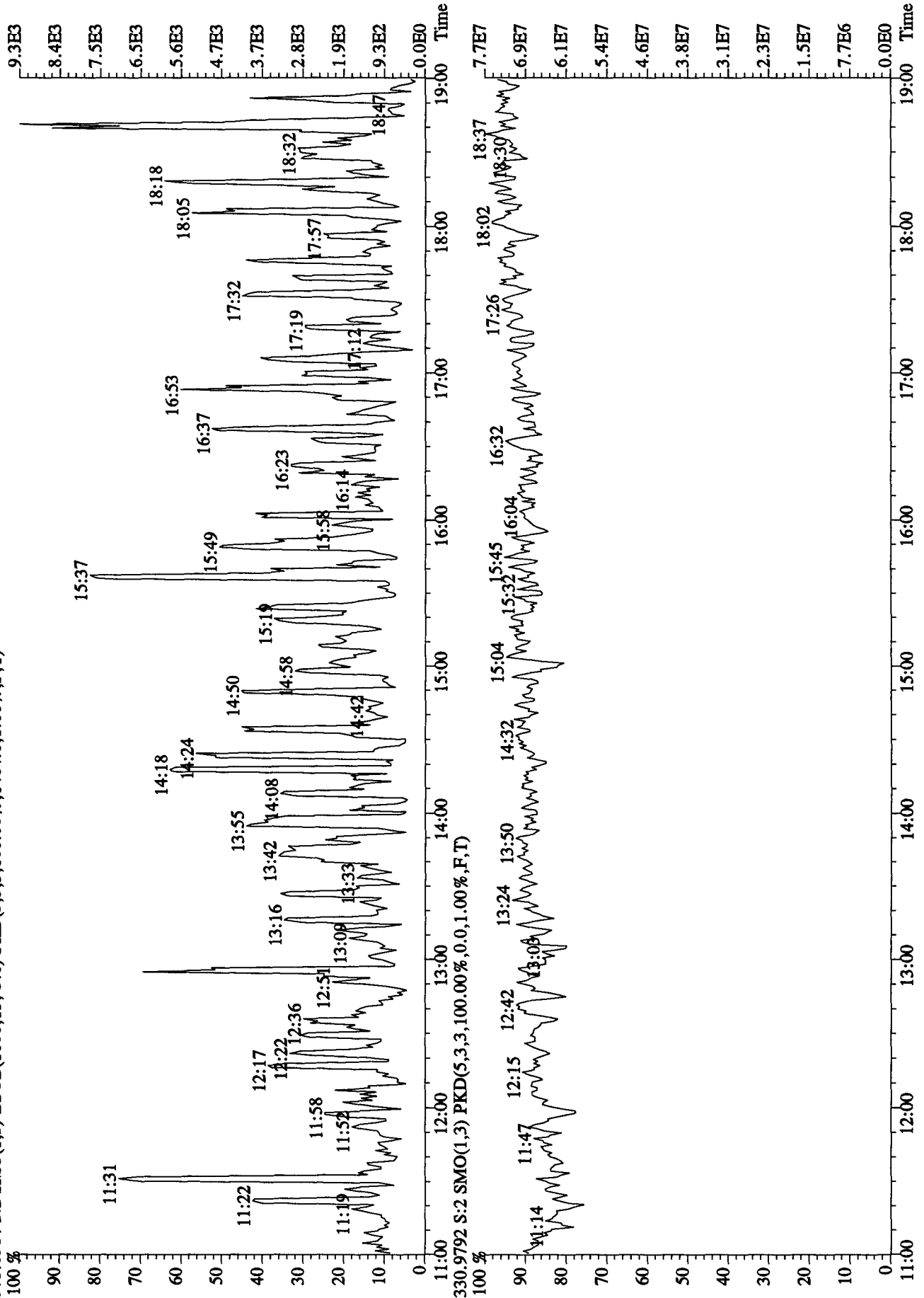
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16828.0,1.00%,F,T)
 100 % A6.69E7



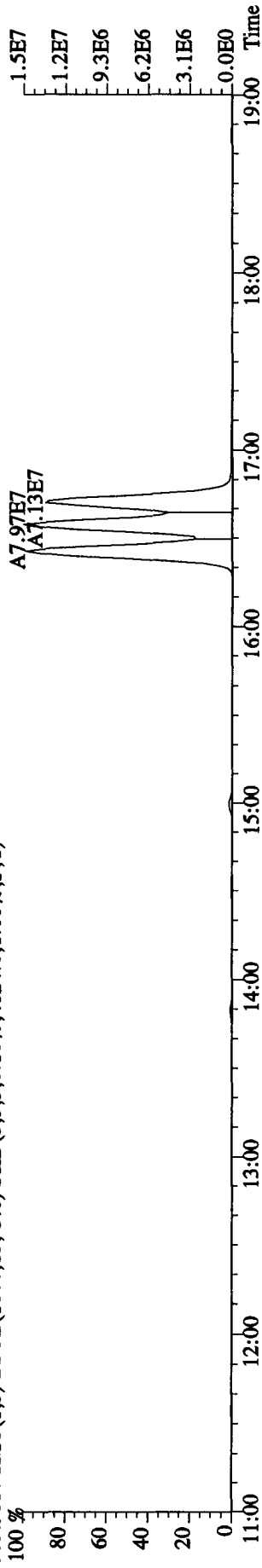
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9012.0,1.00%,F,T)
 100 % A8.83E7



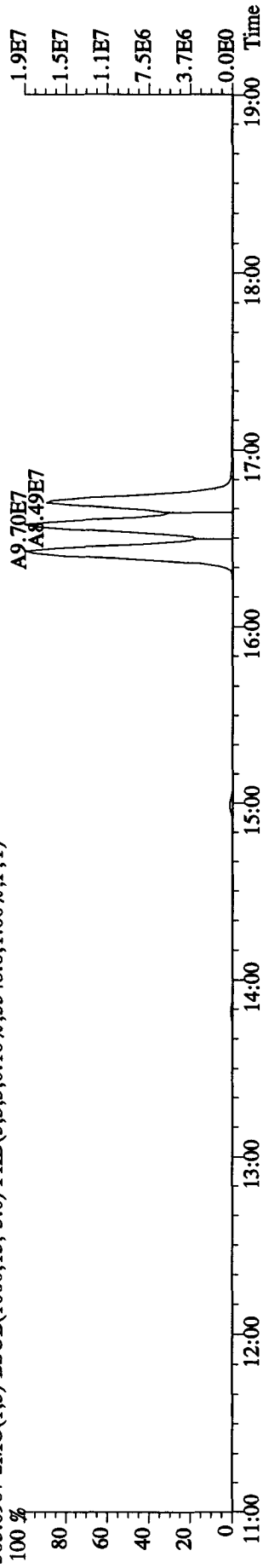
File:08NO105D2 #1-1241 Acq: 8-NOV-2010 11:28:30 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1108 :CS3 10DXN505 Exp:DB225RES
 375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1464.0,1.00%,F,T)



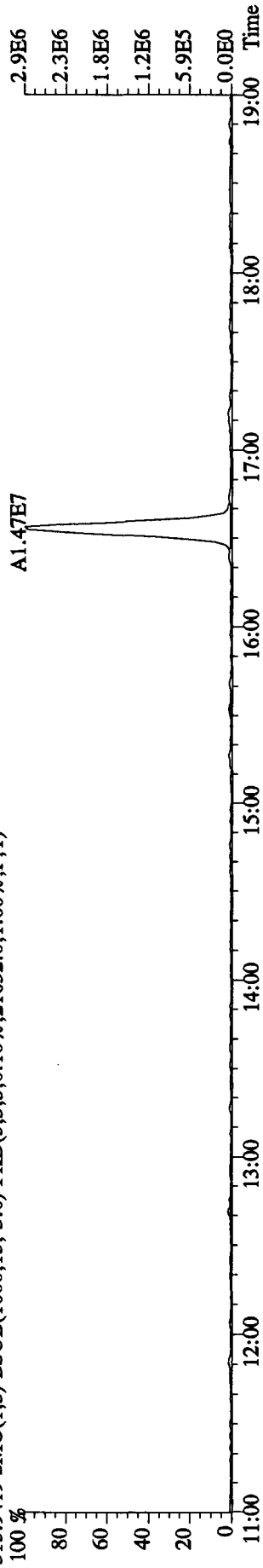
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 10:52:12 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1108 :DB-225 CFSM 3732-06 Exp:DB225RES
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4824.0,1.00%,F,T)



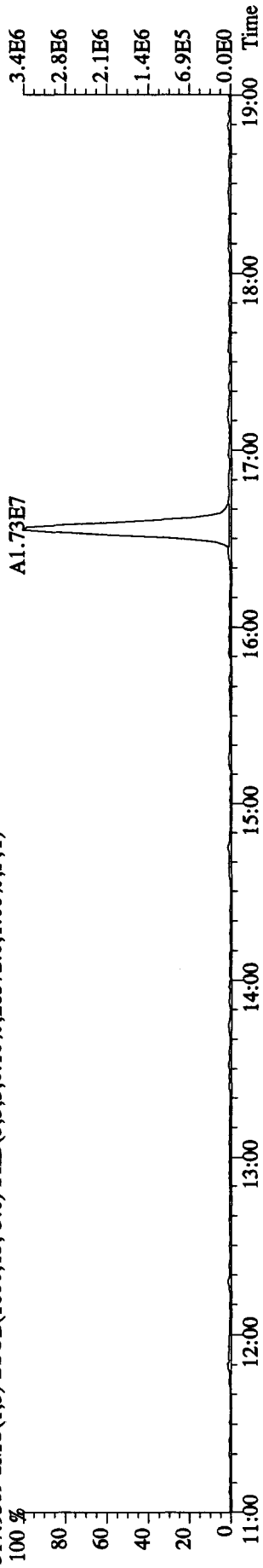
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5548.0,1.00%,F,T)



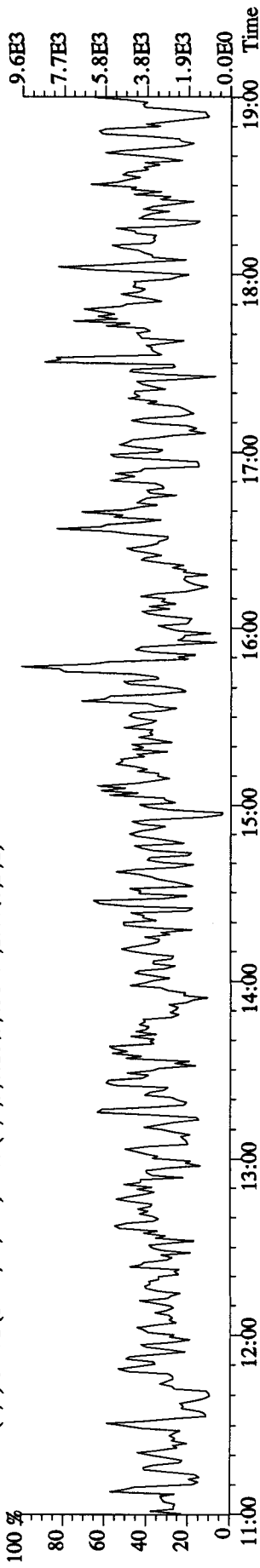
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21652.0,1.00%,F,T)



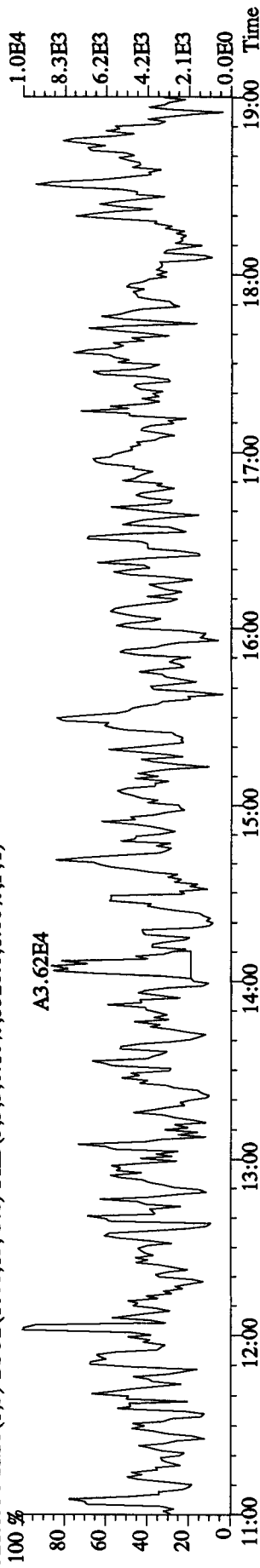
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28572.0,1.00%,F,T)



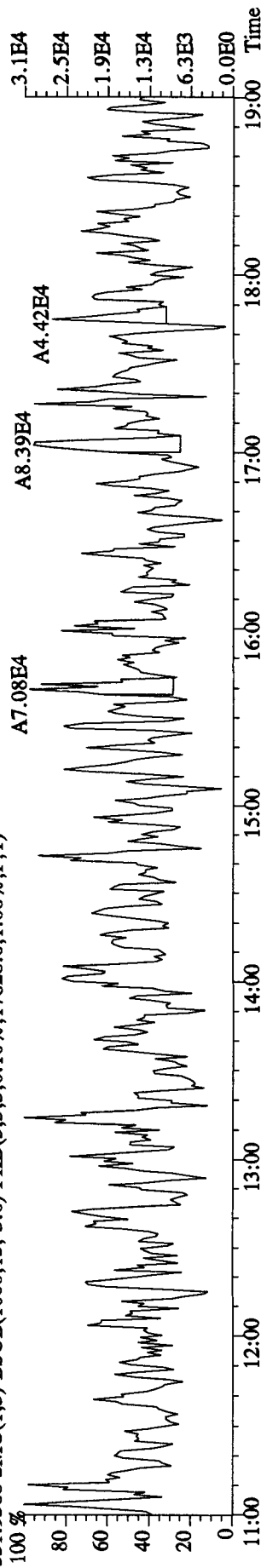
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 10:52:12 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1108 :DB-225 CPSM 3732-06 Exp:DB225PRES
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4588.0,1.00%,F,T)



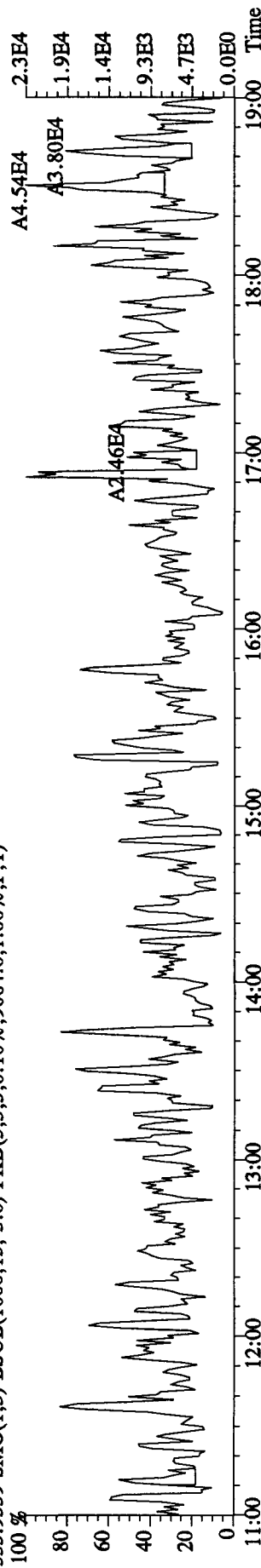
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5328.0,1.00%,F,T)



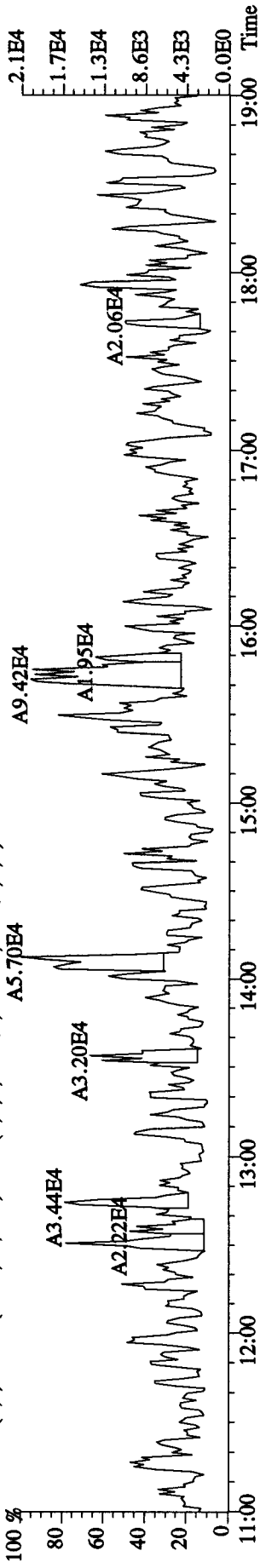
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17828.0,1.00%,F,T)



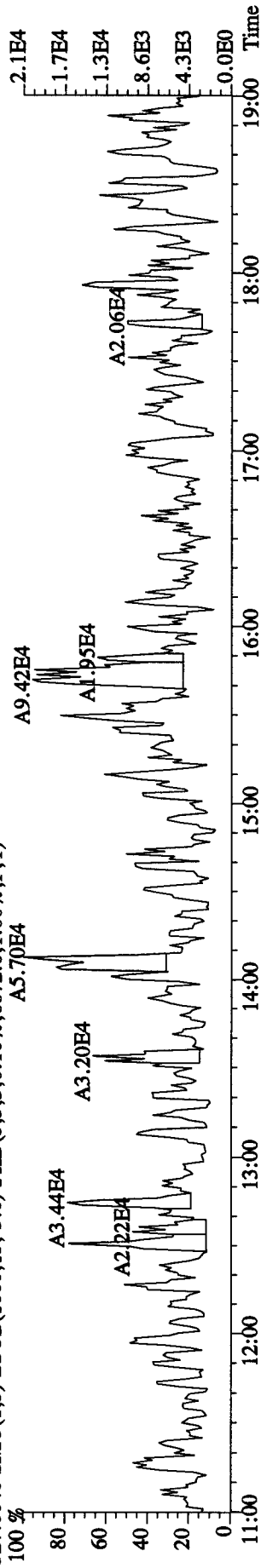
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9064.0,1.00%,F,T)



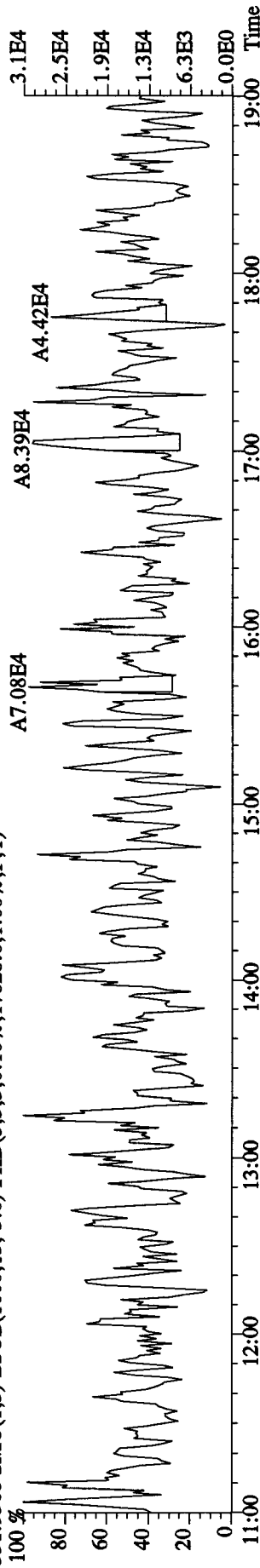
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 10:52:12 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1108 :DB-225 CPSM 3732-06 Exp:DB225RES
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6872.0,1.00%,F,T)
 100 % A5.70E4



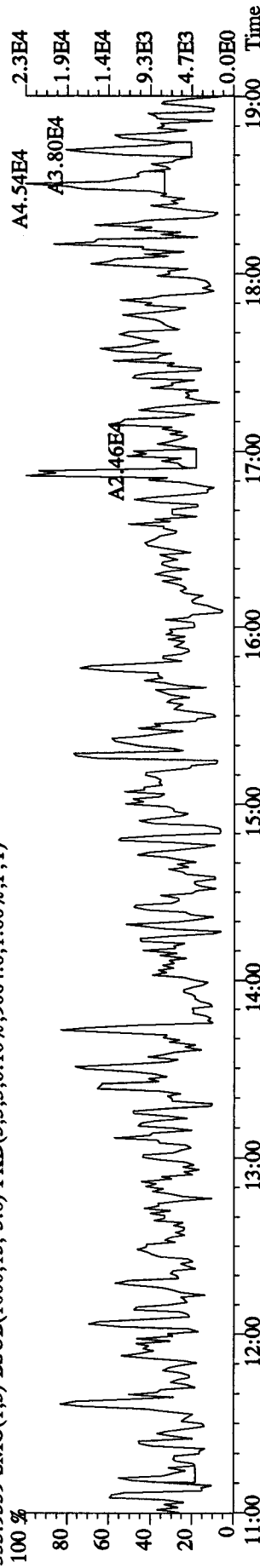
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6872.0,1.00%,F,T)
 100 % A5.70E4



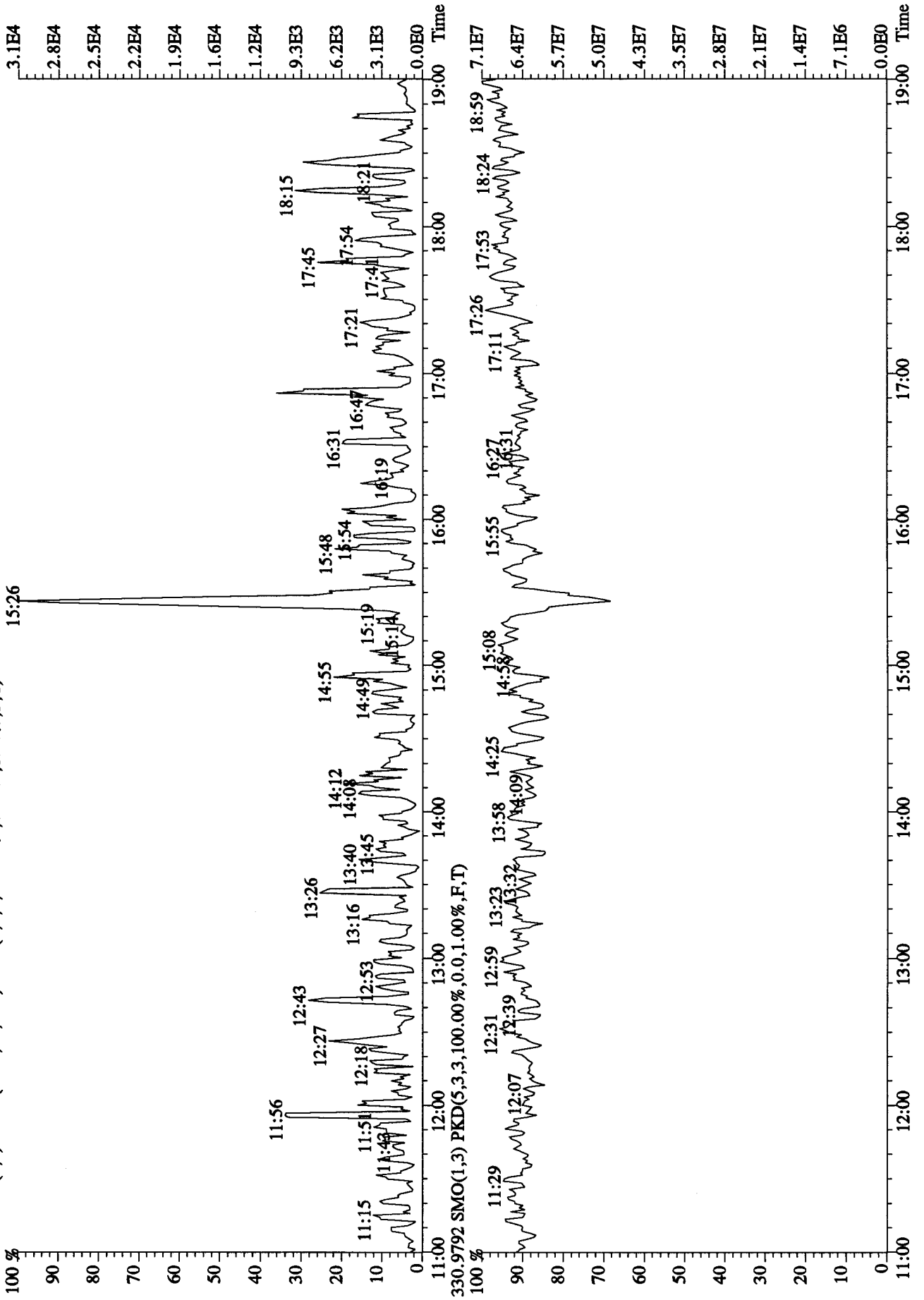
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17828.0,1.00%,F,T)
 100 % A7.08E4



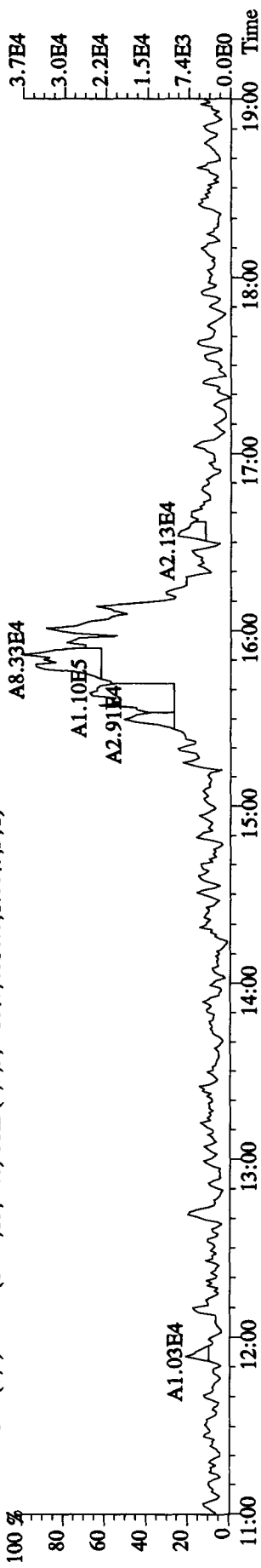
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9064.0,1.00%,F,T)
 100 % A4.54E4



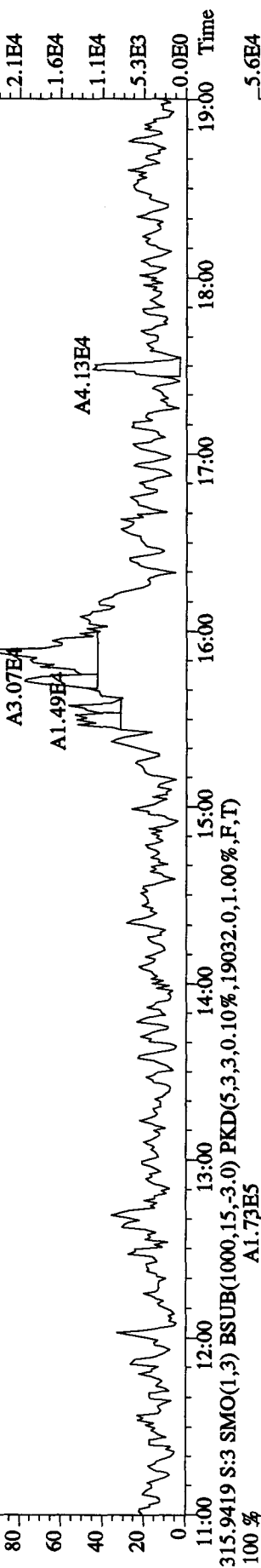
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 10:52:12 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CPI108 :DB-225 CPSM 3732-06 Exp:DB225RES
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1636.0,1.00%,F,T)



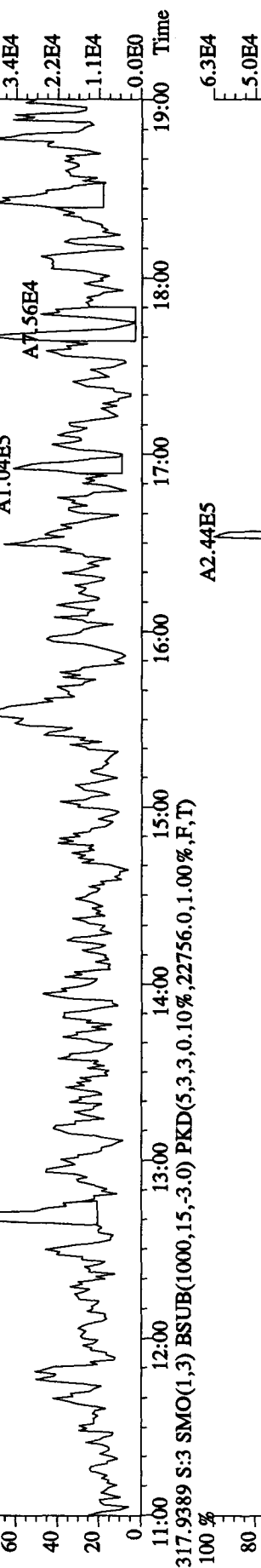
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:04:46 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1108 :Solvent Blank C-14 Exp:DB225RES
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4016.0,1.00%,F,T)



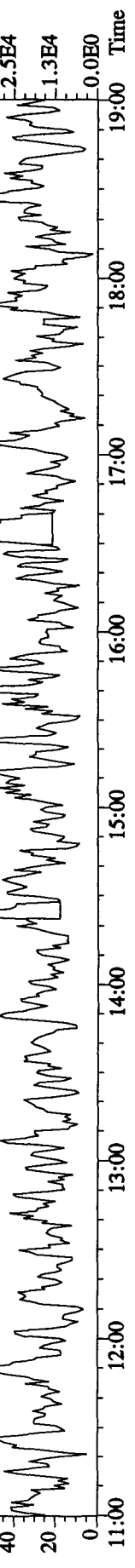
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5072.0,1.00%,F,T)



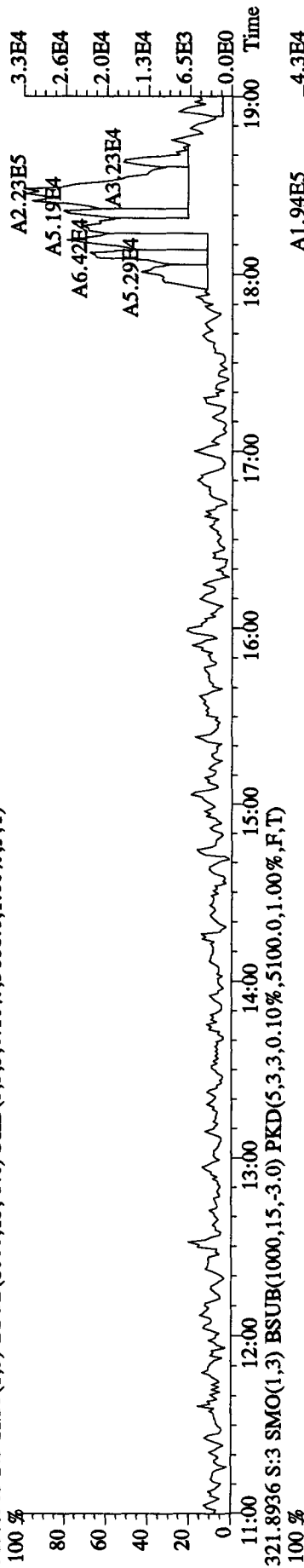
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19032.0,1.00%,F,T)



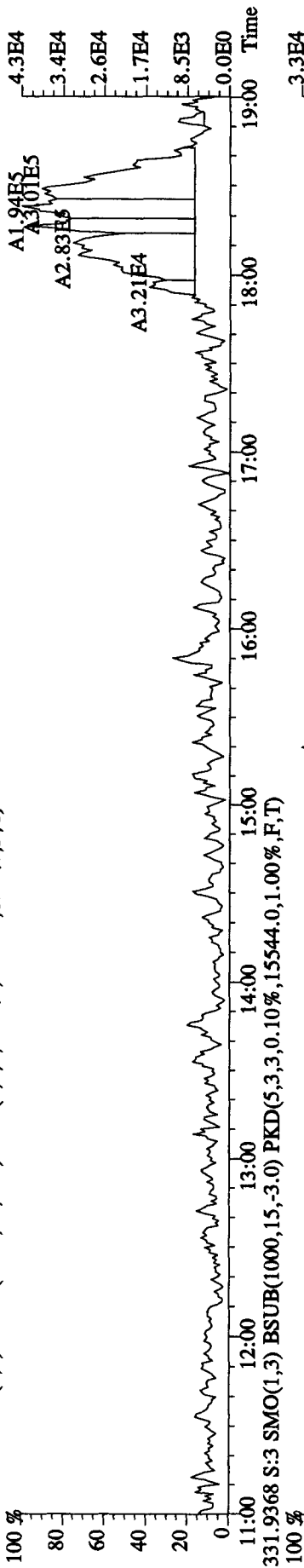
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22756.0,1.00%,F,T)



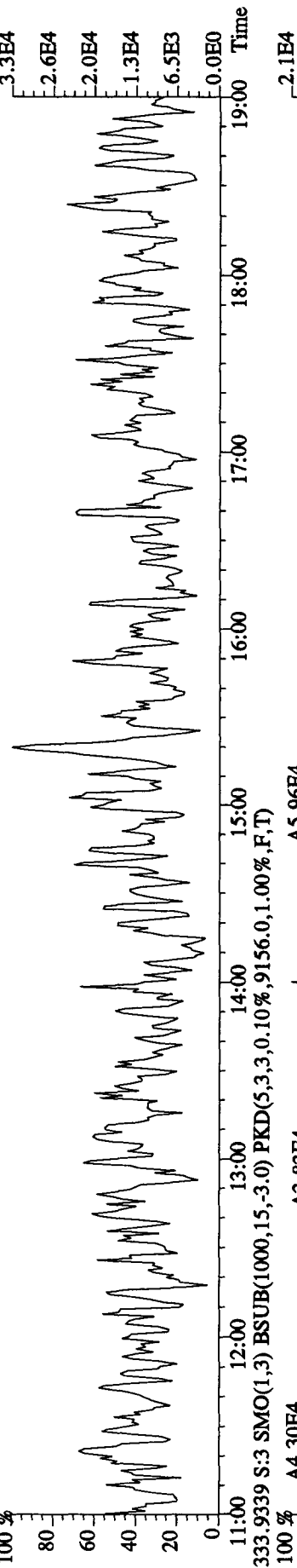
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:04:46 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1108 :Solvent Blank C-14 Exp:DB225RES
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3608.0,1.00%,F,T)



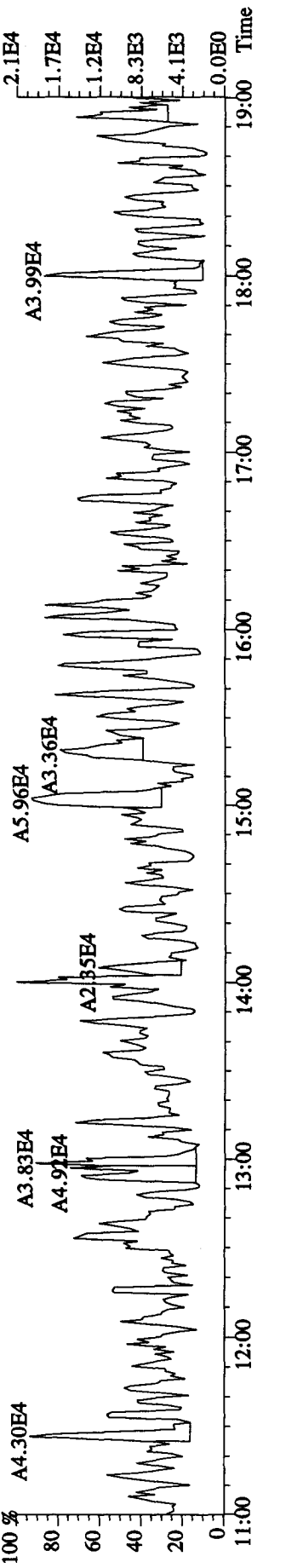
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5100.0,1.00%,F,T)



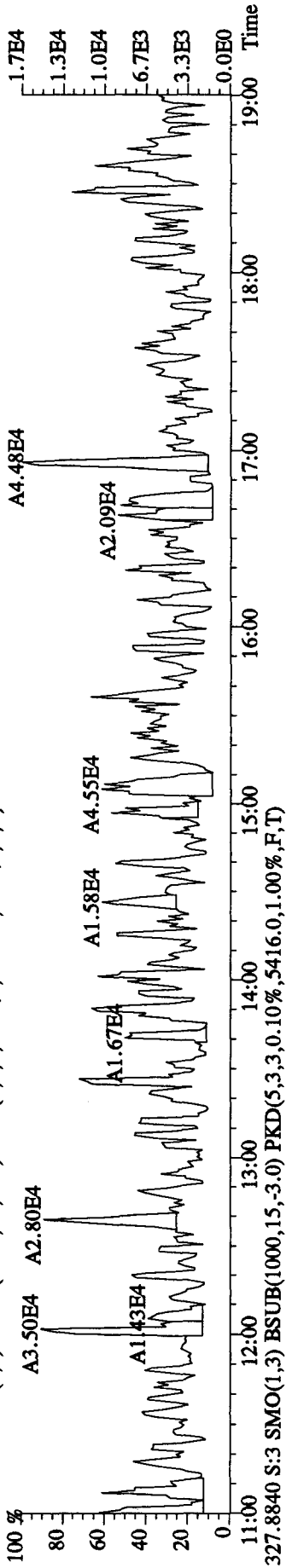
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15544.0,1.00%,F,T)



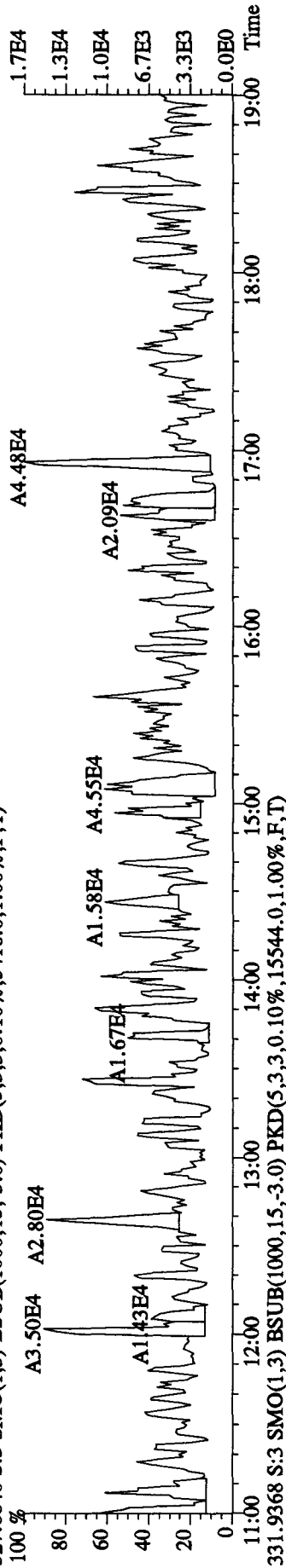
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9156.0,1.00%,F,T)



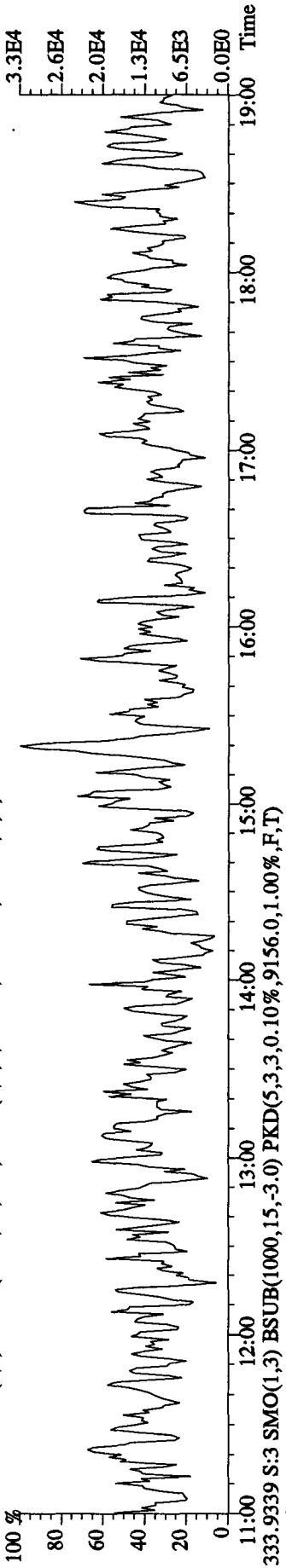
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:04:46 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1108 :Solvent Blank C-14 Exp:DB225RES
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5416.0,1.00%,F,T)



327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5416.0,1.00%,F,T)

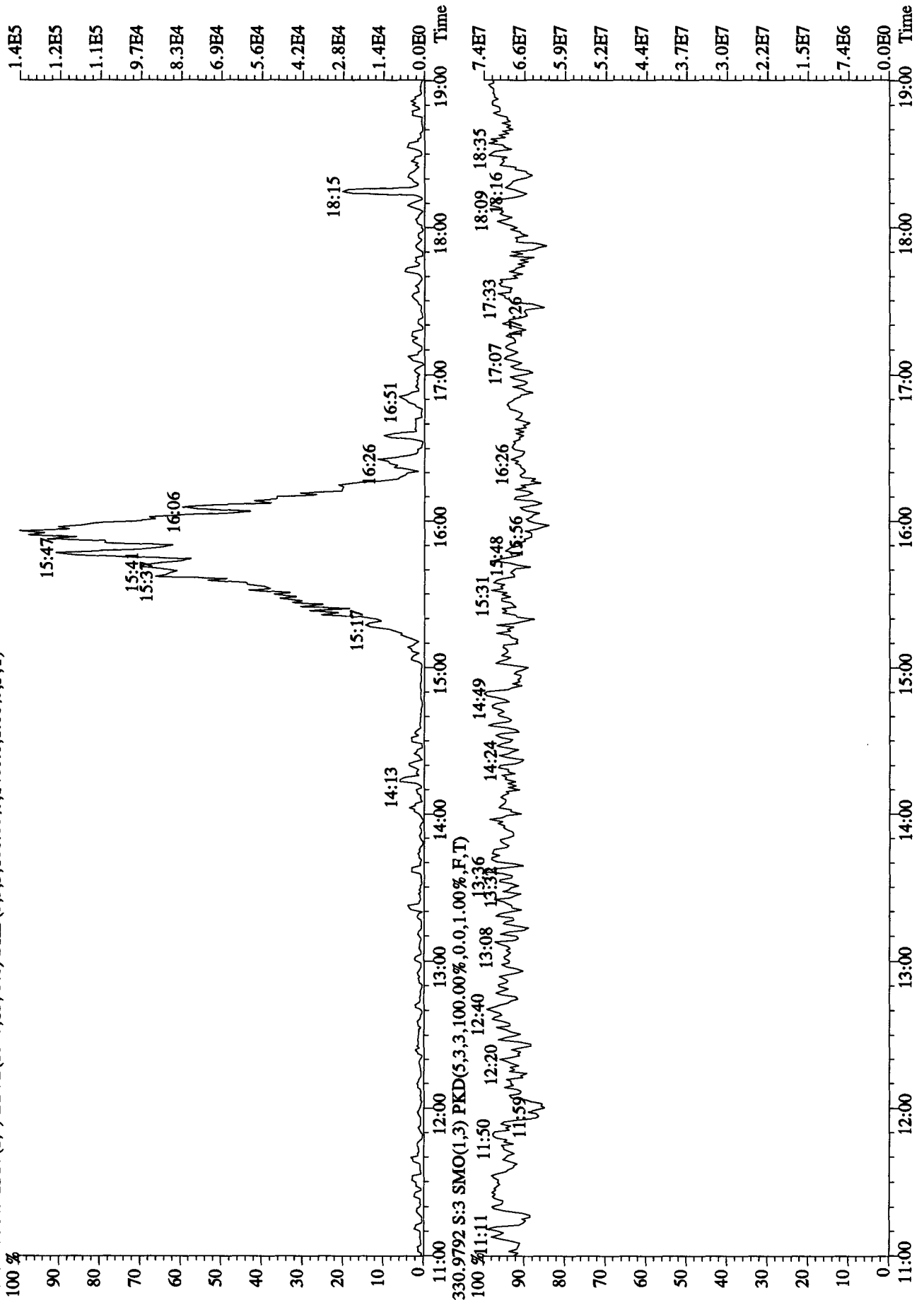


331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15544.0,1.00%,F,T)

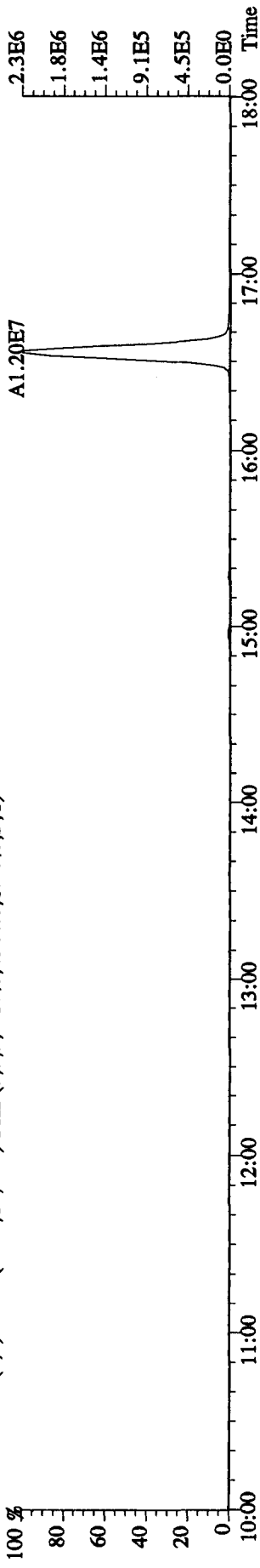


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9156.0,1.00%,F,T)

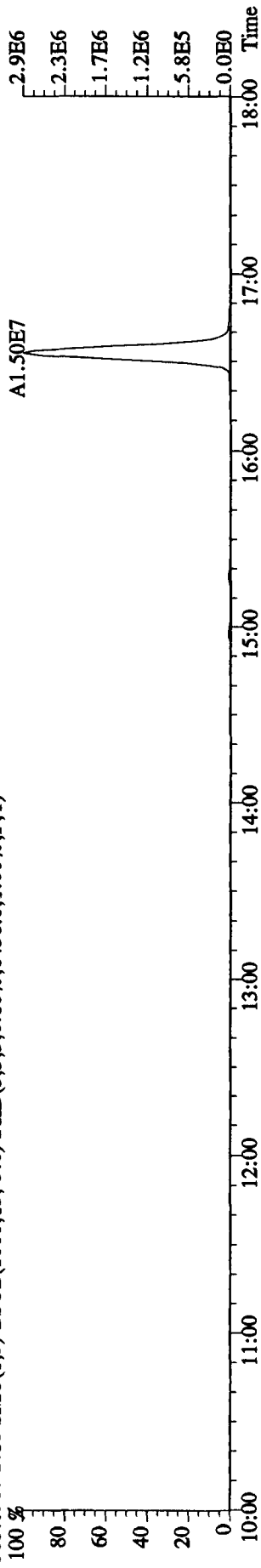
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 12:04:46 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1108 :Solvent Blank C-14 Exp:DB225RES
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1460.0,1.00%,F,T)



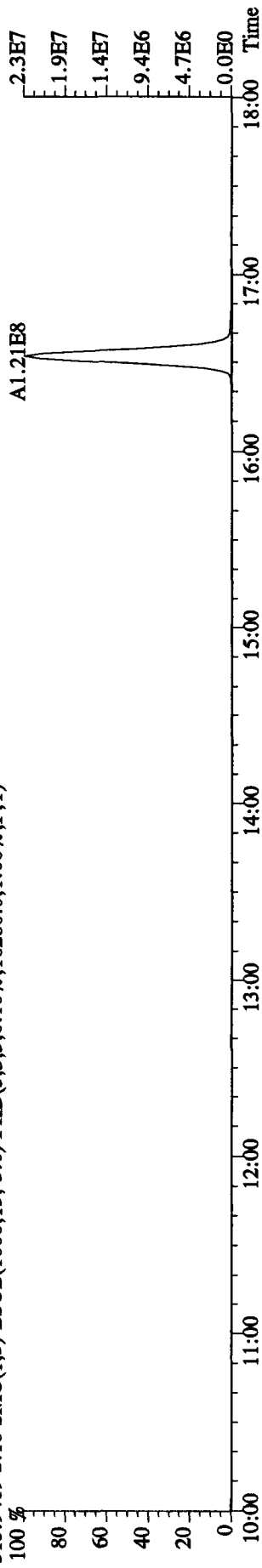
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 21:09:44 GC EI+ Voltage SIR 70SE
 Sample#18 Text:ST1108A :CS3 10DXN505 Exp:DB225RBS
 303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4544.0,1.00%,F,T)



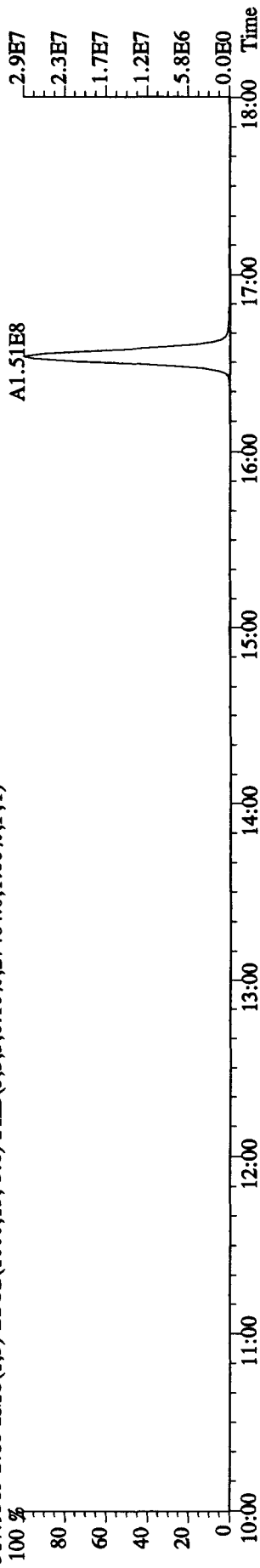
305.8987 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6456.0,1.00%,F,T)



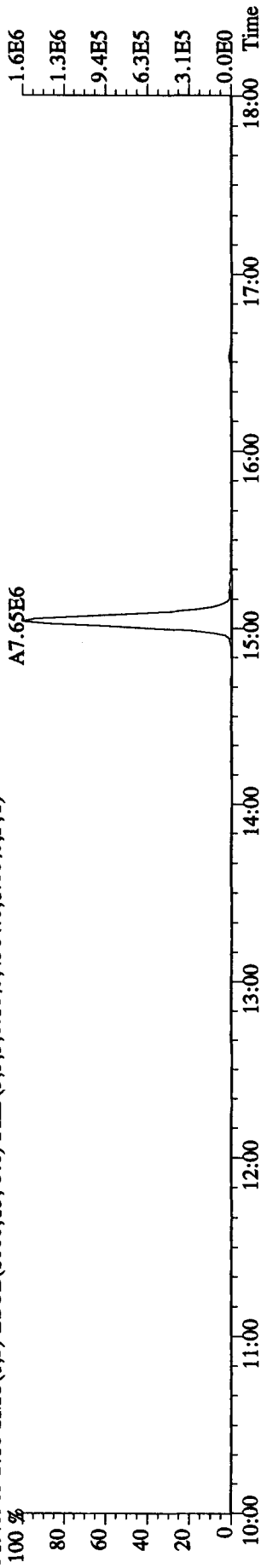
315.9419 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16280.0,1.00%,F,T)



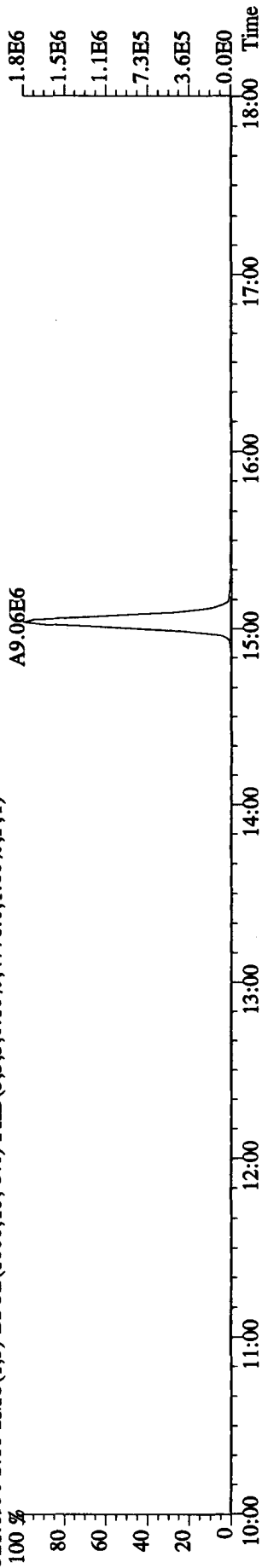
317.9389 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27464.0,1.00%,F,T)



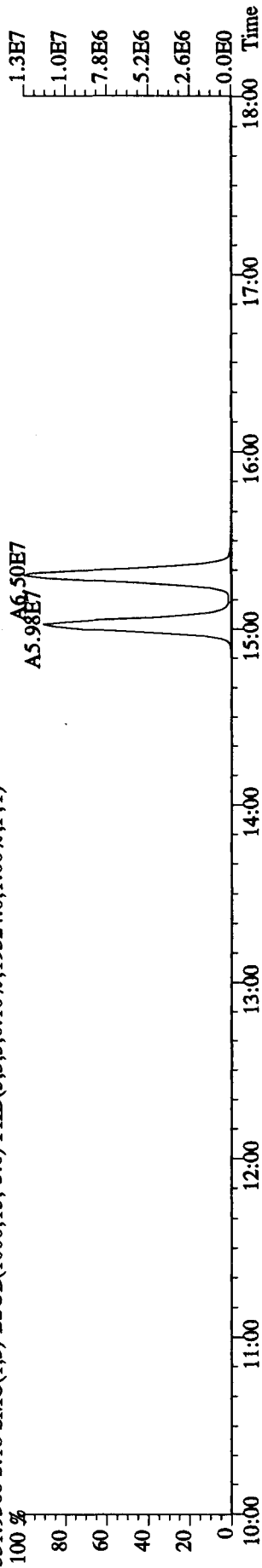
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 21:09:44 GC EI+ Voltage SIR 70SE
 Sample#18 Text:ST1108A :CS3 10DXN505 Exp:DB225RES
 319.8965 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4364.0,1.00%,F,T)



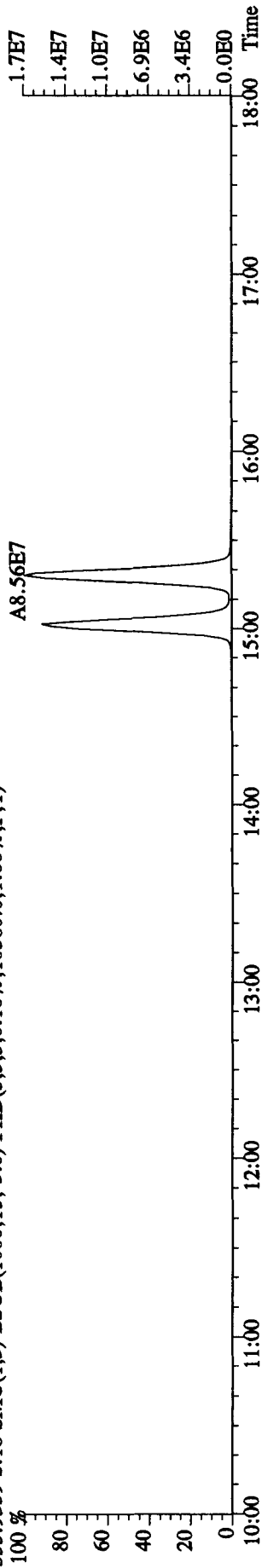
321.8936 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4776.0,1.00%,F,T)



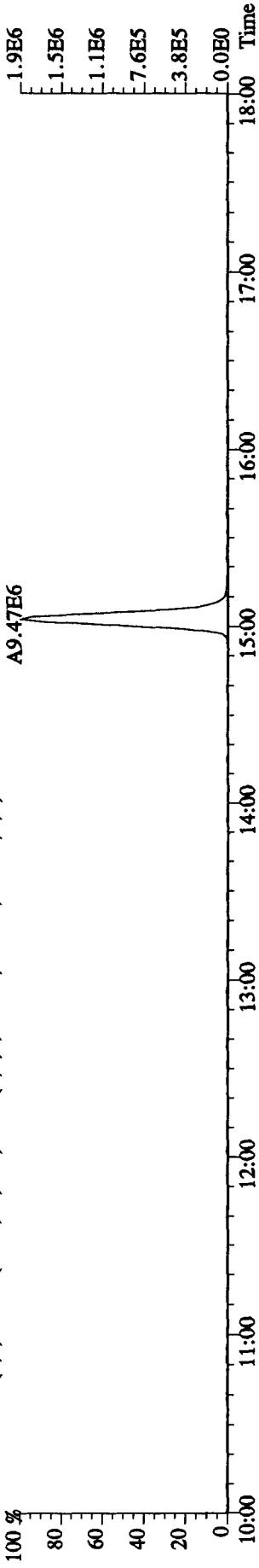
331.9368 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19324.0,1.00%,F,T)



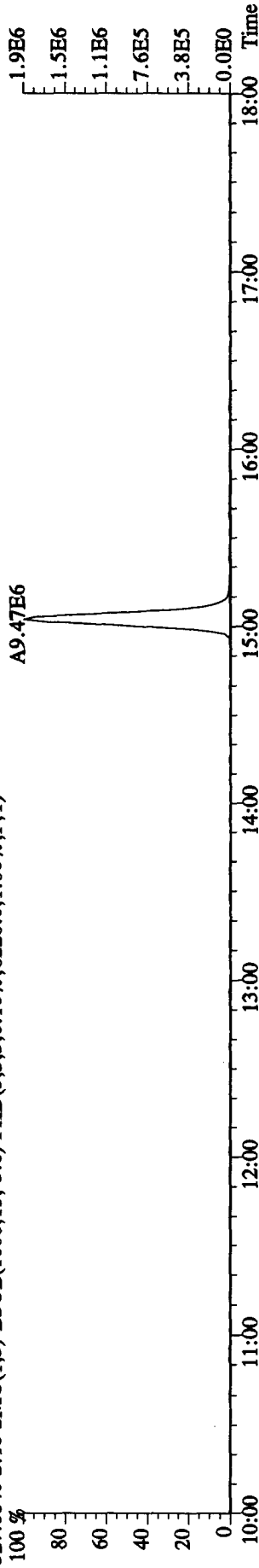
333.9339 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10560.0,1.00%,F,T)



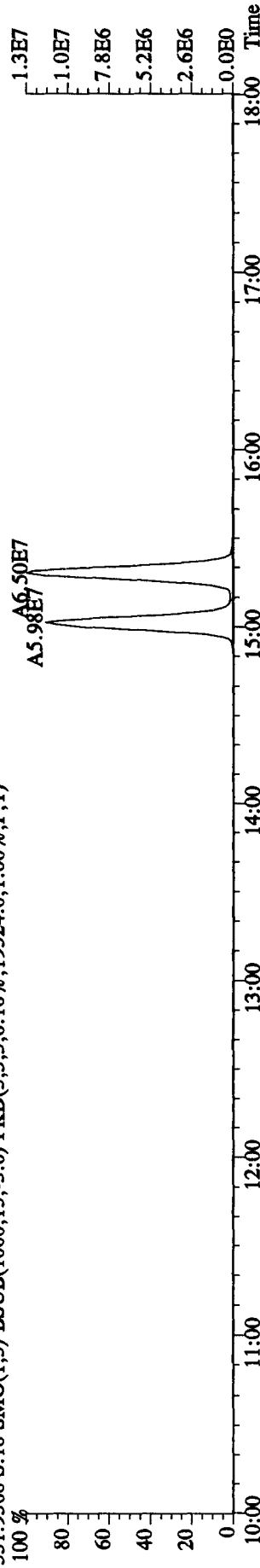
File:08NO105D2 #1-1242 Acq: 8-NOV-2010 21:09:44 GC EI+ Voltage SIR 70SE
 Sample#18 Text:ST1108A :CS3 10DXN505 Exp:DB225RES
 327.8840 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6220.0,1.00%,F,T)



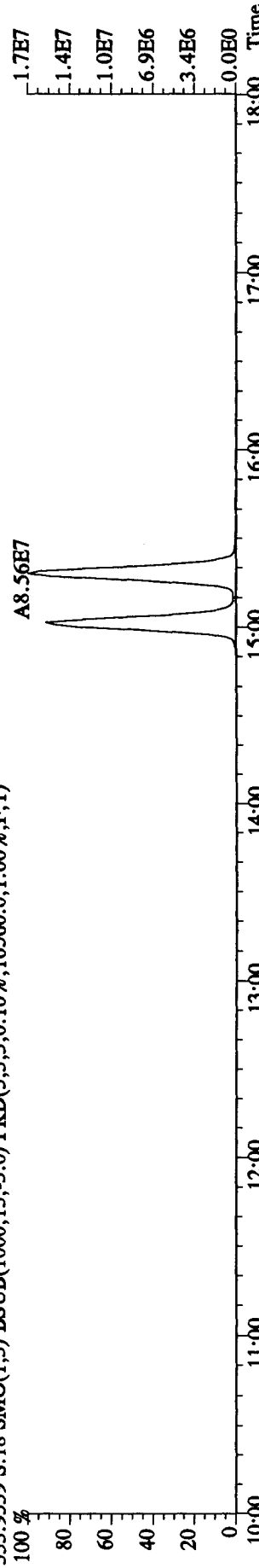
327.8840 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6220.0,1.00%,F,T)



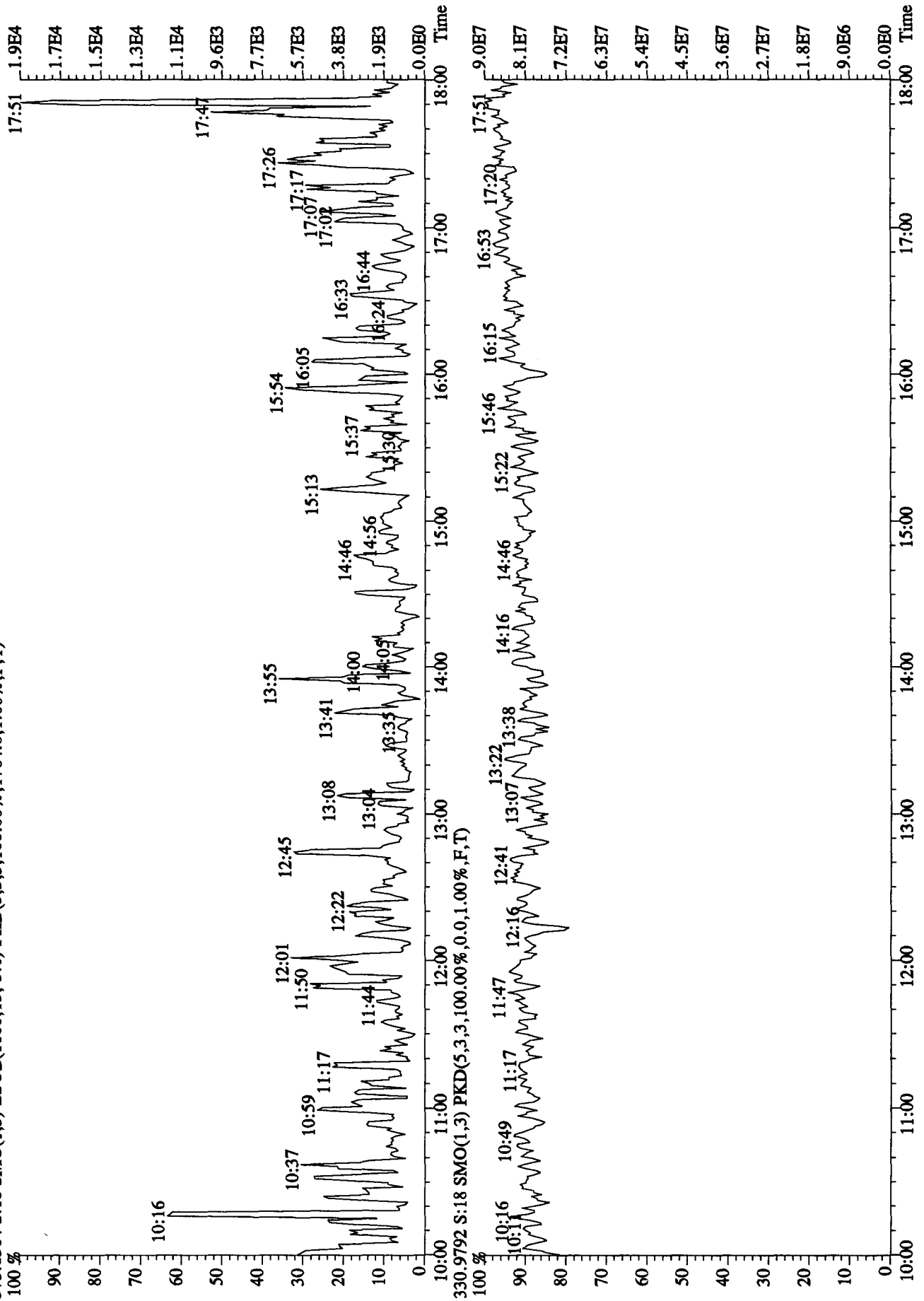
331.9368 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19324.0,1.00%,F,T)



333.9339 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10560.0,1.00%,F,T)



File:08NO105D2_#1-1242 Acq: 8-NOV-2010 21:09:44 GC EI+ Voltage SIR 70SE
 Sample#18 Text:ST1108A :CS3 10DXN505 Exp:DB225RES
 375.8364 S:1.8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1764.0,1.00%.F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist Dioxin Methods

ICAL ID (8290, 1613, T09, 23, 0023A, TETRAS) 1029101D5
 Method ID 8290, 1613B, T09, 23, 0023A Date Scanned _____
 Column ID PR5 Instrument ID 1D5
 STD ID's ST1029 (A, B, C, D, E) STD Solution 10PXN (505, 504, 503, 507, 506)
 GC Program OCDDMB Multiplier Setting 270
 Analyzed By M.G. Date Analyzed 10/29/10
 Prepared By M.G. Date Prepared 10/29/10
 Reviewed By JRB Date Reviewed 10/29/10

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	✓

JRB 10/29/10

COMMENTS:

13C-1, 2, 3, 4 - TCDD 17:59
 13C-1, 2, 3, 7, 8, 9 - HxCDD 30:54

Manual Re-integration required for 1, 2, 3, 4, 7, 8 - HxCDD due to valley corrections. CS-3

*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

ST1029A : CS3 10DXN505 ST1029B : CS2 10DXN504 ST1029C : CS1 10DXN503
 ST1029D : CS5 10DXN507 ST1029E : CS4 10DXN506

290C101D5 290C101D5 290C101D5 290C101D5 290C101D5 290C101D5

Name	Mean	S. D.	%RSD	S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.574	0.068	4.30 %	1.65	1.50	1.64	1.53	1.56
2,3,7,8-TCDF	0.877	0.121	13.8 %	0.82	0.77	0.78	1.02	0.99
Total TCDF	0.877	0.121	13.8 %	0.82	0.77	0.78	1.02	0.99
13C-2,3,7,8-TCDD	0.989	0.034	3.44 %	1.01	1.00	1.03	0.97	0.94
2,3,7,8-TCDD	0.940	0.089	9.47 %	0.87	0.89	0.87	1.05	1.02
Total TCDD	0.940	0.089	9.47 %	0.87	0.89	0.87	1.05	1.02
37Cl-2,3,7,8-TCDD	1.177	0.190	16.1 %	1.17	0.97	1.01	1.38	1.35
13C-1,2,3,7,8-PeCDF	1.154	0.054	4.64 %	1.13	1.07	1.19	1.21	1.17
1,2,3,7,8-PeCDF	1.029	0.142	13.8 %	1.03	0.94	0.85	1.17	1.16
2,3,4,7,8-PeCDF	0.947	0.113	11.9 %	0.92	0.88	0.81	1.06	1.07
Total F2 PeCDF	0.988	0.127	12.8 %	0.97	0.91	0.83	1.11	1.12
Total F1 PeCDF	0.988	0.127	12.8 %	0.97	0.91	0.83	1.11	1.12
13C-1,2,3,7,8-PeCDD	0.667	0.030	4.55 %	0.64	0.63	0.70	0.70	0.67
1,2,3,7,8-PeCDD	0.961	0.138	14.4 %	0.91	0.84	0.84	1.12	1.10
Total PeCDD	0.961	0.138	14.4 %	0.91	0.84	0.84	1.12	1.10
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.148	0.056	4.84 %	1.24	1.12	1.12	1.16	1.11
1,2,3,4,7,8-HxCDF	1.219	0.153	12.6 %	1.21	1.16	1.00	1.36	1.36
1,2,3,6,7,8-HxCDF	1.407	0.122	8.69 %	1.41	1.44	1.22	1.41	1.56
2,3,4,6,7,8-HxCDF	1.232	0.129	10.5 %	1.23	1.21	1.04	1.29	1.39
1,2,3,7,8,9-HxCDF	1.084	0.125	11.6 %	1.02	1.00	0.97	1.17	1.26
Total HxCDF	1.236	0.126	10.2 %	1.22	1.20	1.05	1.31	1.39
13C-1,2,3,6,7,8-HxCDD	0.959	0.044	4.60 %	1.01	0.99	0.96	0.92	0.91
1,2,3,4,7,8-HxCDD	0.887	0.127	14.3 %	0.88	0.77	0.75	1.00	1.03

1,2,3,6,7,8-HxCDD	1.049	0.142	13.5 %	1.07	0.97	0.85	1.17	1.18
1,2,3,7,8,9-HxCDD	1.005	0.137	13.6 %	0.98	0.92	0.83	1.13	1.16
Total HxCDD	0.980	0.134	13.7 %	0.98	0.89	0.81	1.10	1.12
1,2,3,4,6,7,8-HpCDF	0.984	0.057	5.82 %	1.04	0.99	1.01	0.89	0.99
1,2,3,4,6,7,8-HpCDF	1.331	0.165	12.4 %	1.35	1.23	1.11	1.49	1.48
1,2,3,4,7,8,9-HpCDF	1.119	0.173	15.5 %	1.11	0.97	0.92	1.28	1.31
Total HpCDF	1.225	0.168	13.7 %	1.23	1.10	1.02	1.38	1.40
1,2,3,4,6,7,8-HpCDD	0.824	0.061	7.37 %	0.86	0.82	0.89	0.73	0.82
1,2,3,4,6,7,8-HpCDD	1.048	0.139	13.3 %	1.04	0.97	0.87	1.20	1.17
Total HpCDD	1.048	0.139	13.3 %	1.04	0.97	0.87	1.20	1.17
1,2,3,4,6,7,8-HxCDD	0.542	0.048	8.84 %	0.58	0.50	0.58	0.48	0.56
OCDF	1.580	0.252	15.9 %	1.60	1.42	1.24	1.82	1.82
OCDD	1.133	0.159	14.1 %	1.12	1.04	0.92	1.29	1.29

Run #1 Filename 29OC101D5 S: 3 I: 1
 Acquired: 29-OCT-10 07:04:39 Processed: 29-OCT-10 13:28:51
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

Comments:

Sample text: ST1029A :CS3 10DXN505

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	176283200	0.80 y	17:59	-	100.00	n
13C-2,3,7,8-TCDF	291474000	0.78 y	17:28	1.65	100.00	n
2,3,7,8-TCDF	23907900	0.77 y	17:29	0.82	10.00	n
Total TCDF	-	- n	-	0.82	10.00	n
13C-2,3,7,8-TCDD	177834600	0.81 y	18:11	1.01	100.00	n
2,3,7,8-TCDD	15468950	0.77 y	18:12	0.87	10.00	n
Total TCDD	-	- n	-	0.87	10.00	n
37Cl-2,3,7,8-TCDD	20853400	1.00 y	18:12	1.17	10.00	n
13C-1,2,3,7,8-PeCDF	199147400	1.60 y	22:35	1.13	100.00	n
1,2,3,7,8-PeCDF	102429100	1.62 y	22:36	1.03	50.00	n
2,3,4,7,8-PeCDF	91117000	1.63 y	23:57	0.92	50.00	n
Total F2 PeCDF	-	- n	-	0.97	100.00	n
Total F1 PeCDF	-	- n	-	0.97	100.00	n
13C-1,2,3,7,8-PeCDD	112939000	1.74 y	24:39	0.64	100.00	n
1,2,3,7,8-PeCDD	51404100	1.61 y	24:41	0.91	50.00	n
Total PeCDD	-	- n	-	0.91	50.00	n
13C-1,2,3,7,8,9-HxCDD	128494000	1.31 y	30:54	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	159498700	0.53 y	29:38	1.24	100.00	n
1,2,3,4,7,8-HxCDF	96743600	1.26 y	29:39	1.21	50.00	n
1,2,3,6,7,8-HxCDF	112207100	1.27 y	29:46	1.41	50.00	n
2,3,4,6,7,8-HxCDF	98269800	1.26 y	30:24	1.23	50.00	n
1,2,3,7,8,9-HxCDF	81461600	1.29 y	31:06	1.02	50.00	n
Total HxCDF	-	- n	-	1.22	200.00	n
13C-1,2,3,6,7,8-HxCDD	130144200	1.31 y	30:37	1.01	100.00	n
1,2,3,4,7,8-HxCDD	57293000	1.27 y	30:32	0.88	50.00	y
1,2,3,6,7,8-HxCDD	69658300	1.30 y	30:37	1.07	50.00	y
1,2,3,7,8,9-HxCDD	64021800	1.26 y	30:54	0.98	50.00	n
Total HxCDD	-	- n	-	0.98	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	133344100	0.43 y	32:31	1.04	100.00	n
1,2,3,4,6,7,8-HpCDF	90143600	1.04 y	32:32	1.35	50.00	n
1,2,3,4,7,8,9-HpCDF	74247200	1.05 y	33:44	1.11	50.00	n
Total HpCDF	-	- n	-	1.23	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	111117400	1.06 y	33:23	0.86	100.00	n
1,2,3,4,6,7,8-HpCDD	57558800	1.05 y	33:24	1.04	50.00	n
Total HpCDD	-	- n	-	1.04	50.00	n
13C-OCDD	149847400	0.89 y	36:00	0.58	200.00	n
OCDF	119627800	0.92 y	36:08	1.60	100.00	n

OCDD 83827500 0.90 y 36:01 1.12 100.00 n

Run #1 Filename 29OC101D5 S: 3 I: 1
 Acquired: 29-OCT-10 07:04:39 Processed: 29-OCT-10 13:28:51
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

Comments:

Sample text: ST1029A :CS3 10DXN505

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	176283200	0.80 y	17:59	-	100.00	n
13C-2,3,7,8-TCDF	291474000	0.78 y	17:28	1.65	100.00	n
2,3,7,8-TCDF	23907900	0.77 y	17:29	0.82	10.00	n
Total TCDF	-	- n	-	0.82	10.00	n
13C-2,3,7,8-TCDD	177834600	0.81 y	18:11	1.01	100.00	n
2,3,7,8-TCDD	15468950	0.77 y	18:12	0.87	10.00	n
Total TCDD	-	- n	-	0.87	10.00	n
37Cl-2,3,7,8-TCDD	20853400	1.00 y	18:12	1.17	10.00	n
13C-1,2,3,7,8-PeCDF	199147400	1.60 y	22:35	1.13	100.00	n
1,2,3,7,8-PeCDF	102429100	1.62 y	22:36	1.03	50.00	n
2,3,4,7,8-PeCDF	91117000	1.63 y	23:57	0.92	50.00	n
Total F2 PeCDF	-	- n	-	0.97	100.00	n
Total F1 PeCDF	-	- n	-	0.97	100.00	n
13C-1,2,3,7,8-PeCDD	112939000	1.74 y	24:39	0.64	100.00	n
1,2,3,7,8-PeCDD	51404100	1.61 y	24:41	0.91	50.00	n
Total PeCDD	-	- n	-	0.91	50.00	n
13C-1,2,3,7,8,9-HxCDD	128494000	1.31 y	30:54	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	159498700	0.53 y	29:38	1.24	100.00	n
1,2,3,4,7,8-HxCDF	96743600	1.26 y	29:39	1.21	50.00	n
1,2,3,6,7,8-HxCDF	112207100	1.27 y	29:46	1.41	50.00	n
2,3,4,6,7,8-HxCDF	98269800	1.26 y	30:24	1.23	50.00	n
1,2,3,7,8,9-HxCDF	81461600	1.29 y	31:06	1.02	50.00	n
Total HxCDF	-	- n	-	1.22	200.00	n
13C-1,2,3,6,7,8-HxCDD	130144200	1.31 y	30:37	1.01	100.00	n
1,2,3,4,7,8-HxCDD	52387552	1.46 n	30:32	0.81	50.00	n
1,2,3,6,7,8-HxCDD	69353100	1.17 y	30:37	1.07	50.00	n
1,2,3,7,8,9-HxCDD	64021800	1.26 y	30:54	0.98	50.00	n
Total HxCDD	-	- n	-	0.95	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	133344100	0.43 y	32:31	1.04	100.00	n
1,2,3,4,6,7,8-HpCDF	90143600	1.04 y	32:32	1.35	50.00	n
1,2,3,4,7,8,9-HpCDF	74247200	1.05 y	33:44	1.11	50.00	n
Total HpCDF	-	- n	-	1.23	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	111117400	1.06 y	33:23	0.86	100.00	n
1,2,3,4,6,7,8-HpCDD	57558800	1.05 y	33:24	1.04	50.00	n
Total HpCDD	-	- n	-	1.04	50.00	n
13C-OCDD	149847400	0.89 y	36:00	0.58	200.00	n
OCDF	119627800	0.92 y	36:08	1.60	100.00	n

OCDD 83827500 0.90 y 36:01 1.12 100.00 n

Run #2 Filename 29OC101D5 S: 4 I: 1
 Acquired: 29-OCT-10 07:47:30 Processed: 29-OCT-10 13:28:52
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

Comments:

Sample text: ST1029B :CS2 10DXN504

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	156653500	0.82 y	18:00	-	100.00 n
13C-2,3,7,8-TCDF	234426000	0.78 y	17:29	1.50	100.00 n
2,3,7,8-TCDF	3633230	0.78 y	17:30	0.77	2.00 n
Total TCDF	-	- n	-	0.77	2.00 n
13C-2,3,7,8-TCDD	156380300	0.82 y	18:12	1.00	100.00 n
2,3,7,8-TCDD	2785780	0.82 y	18:13	0.89	2.00 n
Total TCDD	-	- n	-	0.89	2.00 n
37Cl-2,3,7,8-TCDD	3024140	1.00 y	18:13	0.97	2.00 n
13C-1,2,3,7,8-PeCDF	168122800	1.62 y	22:35	1.07	100.00 n
1,2,3,7,8-PeCDF	15756590	1.67 y	22:37	0.94	10.00 n
2,3,4,7,8-PeCDF	14868040	1.65 y	23:57	0.88	10.00 n
Total F2 PeCDF	-	- n	-	0.91	20.00 n
Total F1 PeCDF	-	- n	-	0.91	20.00 n
13C-1,2,3,7,8-PeCDD	99114400	1.66 y	24:39	0.63	100.00 n
1,2,3,7,8-PeCDD	8284050	1.60 y	24:42	0.84	10.00 n
Total PeCDD	-	- n	-	0.84	10.00 n
13C-1,2,3,7,8,9-HxCDD	108618300	1.29 y	30:54	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	121480400	0.51 y	29:38	1.12	100.00 n
1,2,3,4,7,8-HxCDF	14096180	1.25 y	29:39	1.16	10.00 n
1,2,3,6,7,8-HxCDF	17521030	1.32 y	29:46	1.44	10.00 n
2,3,4,6,7,8-HxCDF	14723260	1.34 y	30:24	1.21	10.00 n
1,2,3,7,8,9-HxCDF	12130590	1.30 y	31:06	1.00	10.00 n
Total HxCDF	-	- n	-	1.20	40.00 n
13C-1,2,3,6,7,8-HxCDD	107667900	1.28 y	30:37	0.99	100.00 n
1,2,3,4,7,8-HxCDD	8311300	1.22 y	30:32	0.77	10.00 n
1,2,3,6,7,8-HxCDD	10466250	1.41 y	30:38	0.97	10.00 n
1,2,3,7,8,9-HxCDD	9957190	1.28 y	30:54	0.92	10.00 n
Total HxCDD	-	- n	-	0.89	30.00 n
13C-1,2,3,4,6,7,8-HpCDF	107693100	0.44 y	32:31	0.99	100.00 n
1,2,3,4,6,7,8-HpCDF	13229910	1.09 y	32:32	1.23	10.00 n
1,2,3,4,7,8,9-HpCDF	10483920	1.11 y	33:45	0.97	10.00 n
Total HpCDF	-	- n	-	1.10	20.00 n
13C-1,2,3,4,6,7,8-HpCDD	88571400	1.07 y	33:24	0.82	100.00 n
1,2,3,4,6,7,8-HpCDD	8553040	1.01 y	33:25	0.97	10.00 n
Total HpCDD	-	- n	-	0.97	10.00 n
13C-OCDD	109317400	0.90 y	36:01	0.50	200.00 n
OCDF	15548870	0.88 y	36:10	1.42	20.00 n
OCDD	11411220	0.85 y	36:02	1.04	20.00 n

Run #3 Filename 29OC101D5 S: 5 I: 1
 Acquired: 29-OCT-10 08:30:20 Processed: 29-OCT-10 13:28:53
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

Comments:

Sample text: ST1029C :CS1 10DXN503

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	178583500	0.81 y	18:00	-	100.00	n
13C-2,3,7,8-TCDF	291988000	0.77 y	17:29	1.64	100.00	n
2,3,7,8-TCDF	1134664	0.80 y	17:30	0.78	0.50	n
Total TCDF	-	- n	-	0.78	0.50	n
13C-2,3,7,8-TCDD	183754000	0.81 y	18:12	1.03	100.00	n
2,3,7,8-TCDD	797545	0.84 y	18:13	0.87	0.50	n
Total TCDD	-	- n	-	0.87	0.50	n
37Cl-2,3,7,8-TCDD	929474	1.00 y	18:13	1.01	0.50	n
13C-1,2,3,7,8-PeCDF	212475700	1.62 y	22:35	1.19	100.00	n
1,2,3,7,8-PeCDF	4490580	1.70 y	22:37	0.85	2.50	n
2,3,4,7,8-PeCDF	4298010	1.62 y	23:57	0.81	2.50	n
Total F2 PeCDF	-	- n	-	0.83	5.00	n
Total F1 PeCDF	-	- n	-	0.83	5.00	n
13C-1,2,3,7,8-PeCDD	124594700	1.66 y	24:38	0.70	100.00	n
1,2,3,7,8-PeCDD	2618610	1.49 y	24:39	0.84	2.50	n
Total PeCDD	-	- n	-	0.84	2.50	n
13C-1,2,3,7,8,9-HxCDD	146081000	1.29 y	30:54	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	163404100	0.52 y	29:37	1.12	100.00	n
1,2,3,4,7,8-HxCDF	4073370	1.27 y	29:38	1.00	2.50	n
1,2,3,6,7,8-HxCDF	4968960	1.30 y	29:46	1.22	2.50	n
2,3,4,6,7,8-HxCDF	4233250	1.25 y	30:23	1.04	2.50	n
1,2,3,7,8,9-HxCDF	3959630	1.24 y	31:05	0.97	2.50	n
Total HxCDF	-	- n	-	1.05	10.00	n
13C-1,2,3,6,7,8-HxCDD	140192000	1.28 y	30:36	0.96	100.00	n
1,2,3,4,7,8-HxCDD	2637200	1.38 y	30:32	0.75	2.50	n
1,2,3,6,7,8-HxCDD	2965920	1.24 y	30:36	0.85	2.50	n
1,2,3,7,8,9-HxCDD	2914480	1.31 y	30:54	0.83	2.50	n
Total HxCDD	-	- n	-	0.81	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	148268500	0.44 y	32:30	1.01	100.00	n
1,2,3,4,6,7,8-HpCDF	4104110	0.98 y	32:31	1.11	2.50	n
1,2,3,4,7,8,9-HpCDF	3421320	1.07 y	33:45	0.92	2.50	n
Total HpCDF	-	- n	-	1.02	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	129667300	1.08 y	33:23	0.89	100.00	n
1,2,3,4,6,7,8-HpCDD	2814510	1.02 y	33:24	0.87	2.50	n
Total HpCDD	-	- n	-	0.87	2.50	n
13C-OCDD	169740600	0.91 y	36:01	0.58	200.00	n
OCDF	5270230	0.96 y	36:08	1.24	5.00	n
OCDD	3916080	0.96 y	36:02	0.92	5.00	n

Run #4 Filename 29OC101D5 S: 6 I: 1
 Acquired: 29-OCT-10 09:13:09 Processed: 29-OCT-10 13:28:53
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

Comments:

Sample text: ST1029D :CS5 10DXN507

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	186350200	0.78 y	18:01	-	100.00	n
13C-2,3,7,8-TCDF	284958000	0.79 y	17:31	1.53	100.00	n
2,3,7,8-TCDF	583634000	0.78 y	17:32	1.02	200.00	n
Total TCDF	-	- n	-	1.02	200.00	n
13C-2,3,7,8-TCDD	180251200	0.79 y	18:14	0.97	100.00	n
2,3,7,8-TCDD	380193000	0.76 y	18:15	1.05	200.00	n
Total TCDD	-	- n	-	1.05	200.00	n
37Cl-2,3,7,8-TCDD	497836000	1.00 y	18:15	1.38	200.00	n
13C-1,2,3,7,8-PeCDF	224753100	1.62 y	22:36	1.21	100.00	n
1,2,3,7,8-PeCDF	2630450000	1.58 y	22:37	1.17	1000.00	n
2,3,4,7,8-PeCDF	2371507000	1.56 y	23:57	1.06	1000.00	n
Total F2 PeCDF	-	- n	-	1.11	2000.00	n
Total F1 PeCDF	-	- n	-	1.11	2000.00	n
13C-1,2,3,7,8-PeCDD	129781900	1.65 y	24:38	0.70	100.00	n
1,2,3,7,8-PeCDD	1448363000	1.56 y	24:40	1.12	1000.00	n
Total PeCDD	-	- n	-	1.12	1000.00	n
13C-1,2,3,7,8,9-HxCDD	152501700	1.30 y	30:53	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	176532400	0.53 y	29:37	1.16	100.00	n
1,2,3,4,7,8-HxCDF	2401630000	1.25 y	29:38	1.36	1000.00	n
1,2,3,6,7,8-HxCDF	2496050000	1.27 y	29:46	1.41	1000.00	n
2,3,4,6,7,8-HxCDF	2282540000	1.26 y	30:22	1.29	1000.00	n
1,2,3,7,8,9-HxCDF	2062966000	1.26 y	31:04	1.17	1000.00	n
Total HxCDF	-	- n	-	1.31	4000.00	n
13C-1,2,3,6,7,8-HxCDD	139857200	1.31 y	30:35	0.92	100.00	n
1,2,3,4,7,8-HxCDD	1403753000	1.24 y	30:31	1.00	1000.00	n
1,2,3,6,7,8-HxCDD	1641145000	1.28 y	30:36	1.17	1000.00	n
1,2,3,7,8,9-HxCDD	1574334000	1.24 y	30:54	1.13	1000.00	n
Total HxCDD	-	- n	-	1.10	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	135438000	0.44 y	32:29	0.89	100.00	n
1,2,3,4,6,7,8-HpCDF	2015452000	1.03 y	32:30	1.49	1000.00	n
1,2,3,4,7,8,9-HpCDF	1727596000	1.03 y	33:43	1.28	1000.00	n
Total HpCDF	-	- n	-	1.38	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	111219100	1.08 y	33:22	0.73	100.00	n
1,2,3,4,6,7,8-HpCDD	1338946000	1.06 y	33:22	1.20	1000.00	n
Total HpCDD	-	- n	-	1.20	1000.00	n
13C-OCDD	145988400	0.90 y	35:59	0.48	200.00	n
OCDF	2649960000	0.92 y	36:06	1.82	2000.00	n
OCDD	1881221000	0.90 y	36:00	1.29	2000.00	n

Run #5 Filename 29OC101D5 S: 7 I: 1
 Acquired: 29-OCT-10 09:55:59 Processed: 29-OCT-10 13:28:54
 Run: 16JN10A1D5 Analyte: TO9 Cal: TO91029101D5

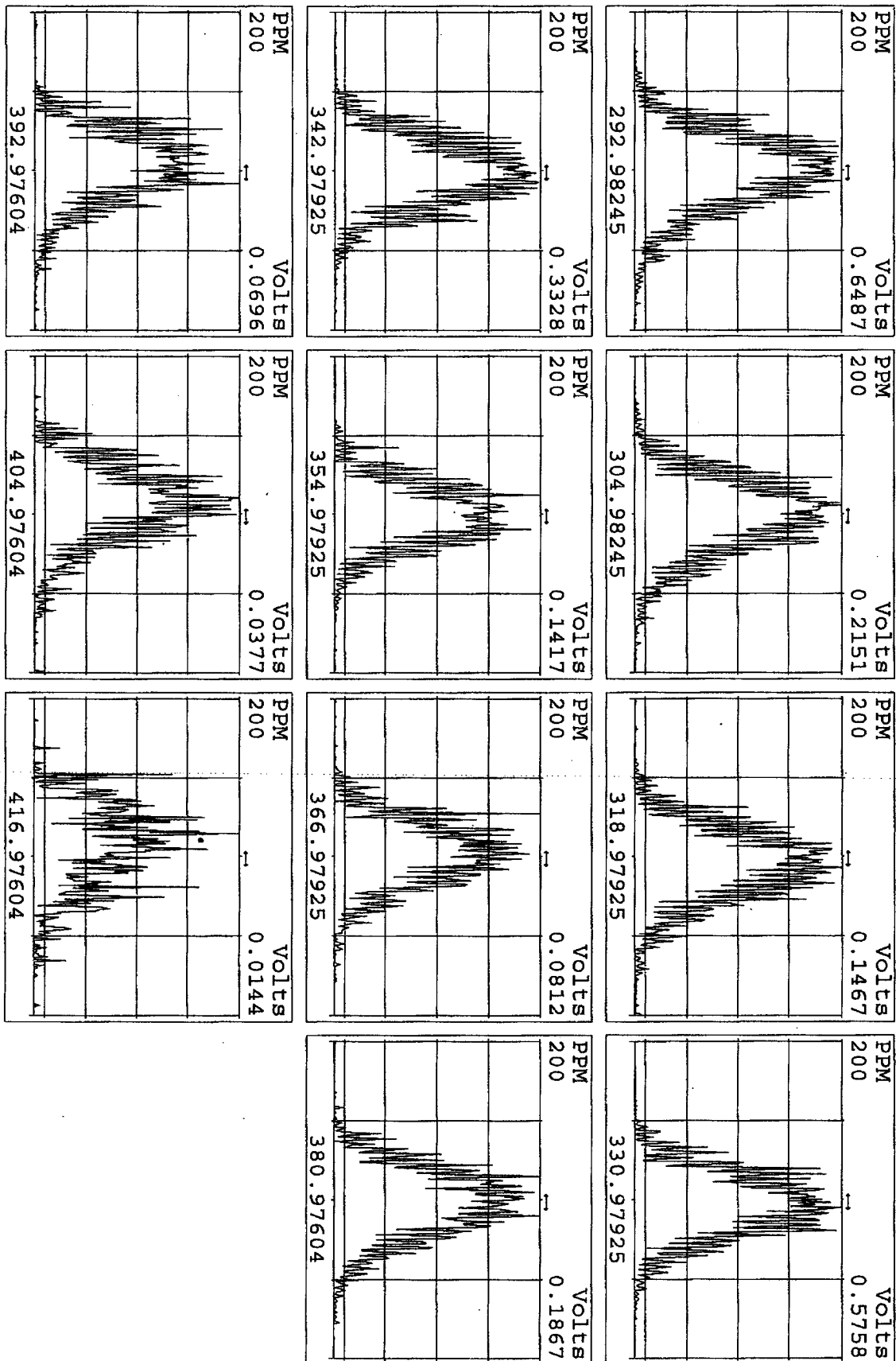
Comments:

Sample text: ST1029E :CS4 10DXN506

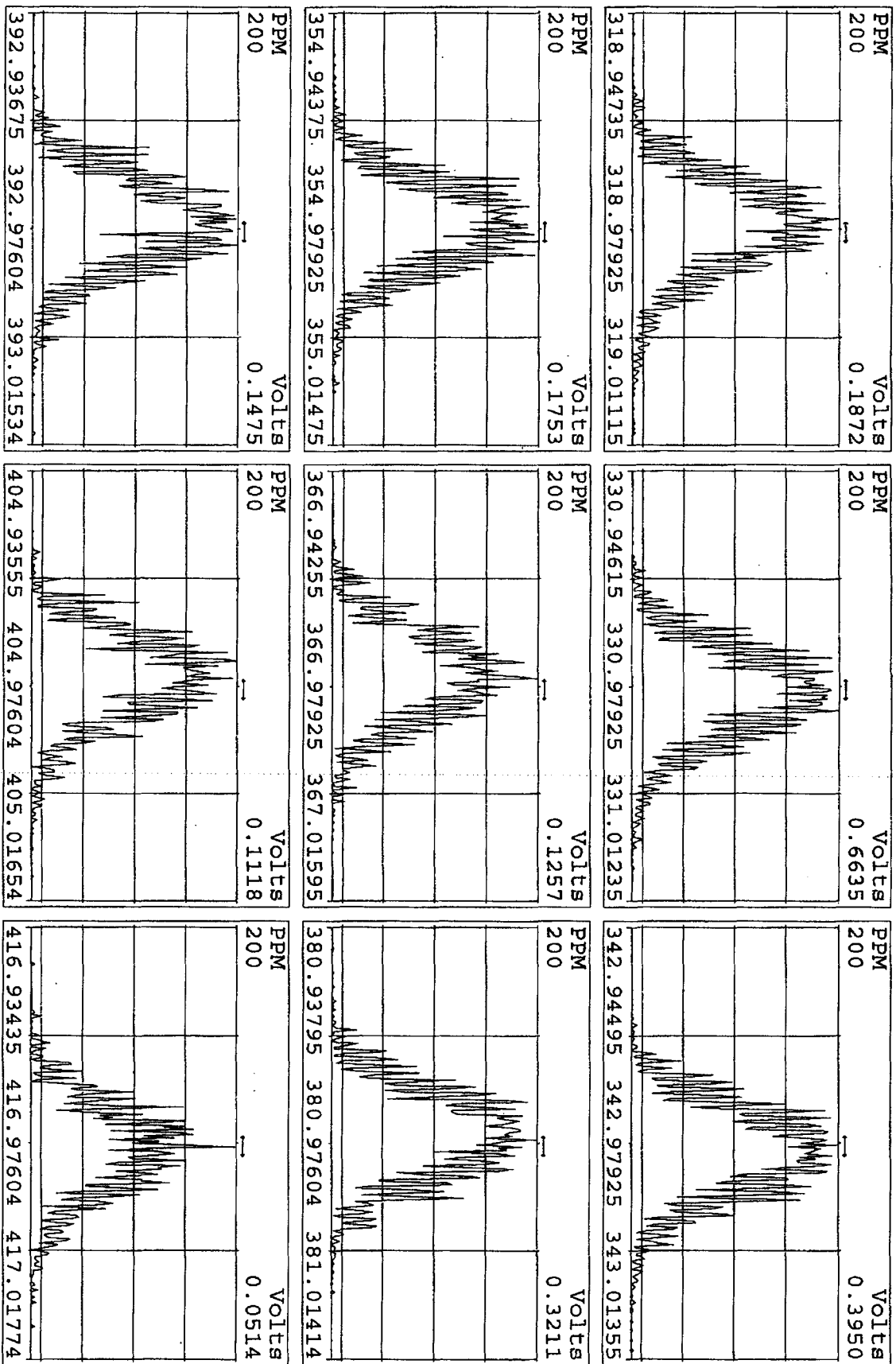
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13C-1,2,3,4-TCDD	157079400	0.79 y	17:59	-	100.00	n
13C-2,3,7,8-TCDF	244795000	0.81 y	17:28	1.56	100.00	n
2,3,7,8-TCDF	97040800	0.77 y	17:29	0.99	40.00	n
Total TCDF	-	- n	-	0.99	40.00	n
13C-2,3,7,8-TCDD	148173900	0.81 y	18:10	0.94	100.00	n
2,3,7,8-TCDD	60310400	0.75 y	18:12	1.02	40.00	n
Total TCDD	-	- n	-	1.02	40.00	n
37Cl-2,3,7,8-TCDD	80189200	1.00 y	18:11	1.35	40.00	n
13C-1,2,3,7,8-PeCDF	184299800	1.65 y	22:35	1.17	100.00	n
1,2,3,7,8-PeCDF	429172000	1.60 y	22:36	1.16	200.00	n
2,3,4,7,8-PeCDF	394839000	1.58 y	23:57	1.07	200.00	n
Total F2 PeCDF	-	- n	-	1.12	400.00	n
Total F1 PeCDF	-	- n	-	1.12	400.00	n
13C-1,2,3,7,8-PeCDD	104860100	1.68 y	24:38	0.67	100.00	n
1,2,3,7,8-PeCDD	231158200	1.62 y	24:40	1.10	200.00	n
Total PeCDD	-	- n	-	1.10	200.00	n
13C-1,2,3,7,8,9-HxCDD	136535300	1.28 y	30:54	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	150936600	0.52 y	29:37	1.11	100.00	n
1,2,3,4,7,8-HxCDF	411797000	1.26 y	29:38	1.36	200.00	n
1,2,3,6,7,8-HxCDF	469752000	1.27 y	29:46	1.56	200.00	n
2,3,4,6,7,8-HxCDF	418717000	1.27 y	30:23	1.39	200.00	n
1,2,3,7,8,9-HxCDF	380636000	1.28 y	31:05	1.26	200.00	n
Total HxCDF	-	- n	-	1.39	800.00	n
13C-1,2,3,6,7,8-HxCDD	124709500	1.30 y	30:36	0.91	100.00	n
1,2,3,4,7,8-HxCDD	256365000	1.22 y	30:31	1.03	200.00	n
1,2,3,6,7,8-HxCDD	294883000	1.29 y	30:37	1.18	200.00	n
1,2,3,7,8,9-HxCDD	288902000	1.26 y	30:55	1.16	200.00	n
Total HxCDD	-	- n	-	1.12	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	135072200	0.44 y	32:30	0.99	100.00	n
1,2,3,4,6,7,8-HpCDF	400173000	1.04 y	32:31	1.48	200.00	n
1,2,3,4,7,8,9-HpCDF	353739000	1.03 y	33:43	1.31	200.00	n
Total HpCDF	-	- n	-	1.40	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	112628500	1.09 y	33:22	0.82	100.00	n
1,2,3,4,6,7,8-HpCDD	262843000	1.06 y	33:23	1.17	200.00	n
Total HpCDD	-	- n	-	1.17	200.00	n
13C-OCDD	153770200	0.92 y	36:00	0.56	200.00	n
OCDF	560731000	0.91 y	36:07	1.82	400.00	n
OCDD	397175000	0.91 y	36:01	1.29	400.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
29OC101D5	1	CP1029	DB-5 CPSM 3732-10				1.00000	
29OC101D5	2	ST1029	CS3 10DXN417				1.00000	
29OC101D5	3	ST1029A	CS3 10DXN505				1.00000	
29OC101D5	4	ST1029B	CS2 10DXN504				1.00000	
29OC101D5	5	ST1029C	CS1 10DXN503				1.00000	
29OC101D5	6	ST1029D	CS5 10DXN507				1.00000	
29OC101D5	7	ST1029E	CS4 10DXN506				1.00000	
29OC101D5	8	ST1029F	2nd Source 10DXN340				1.00000	
29OC101D5	9						1.00000	
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29OC101D5	11						1.00000	
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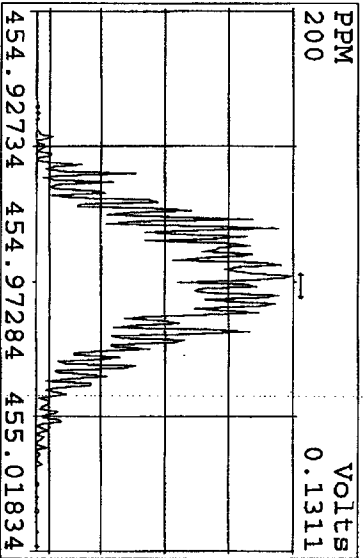
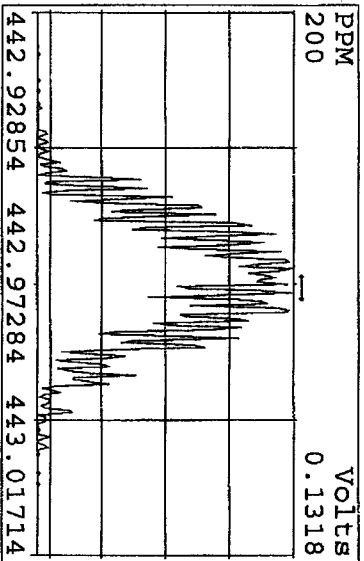
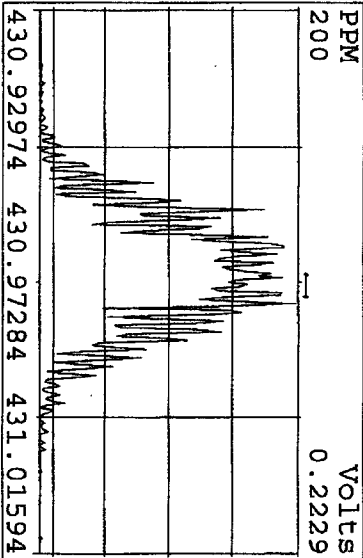
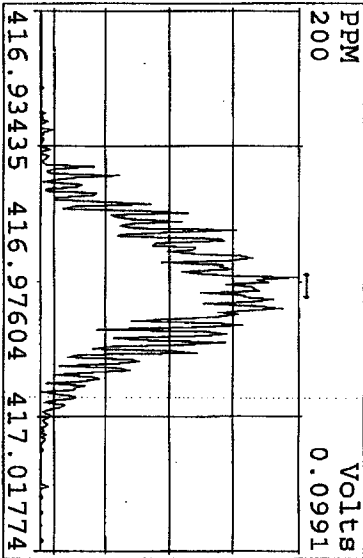
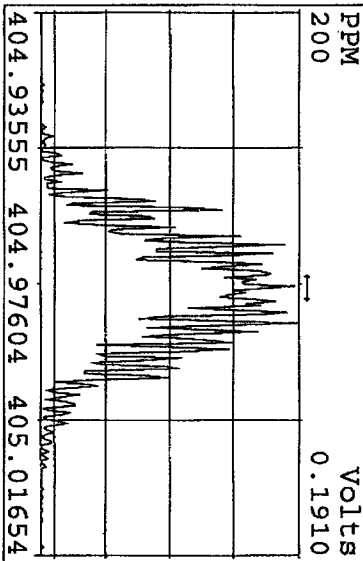
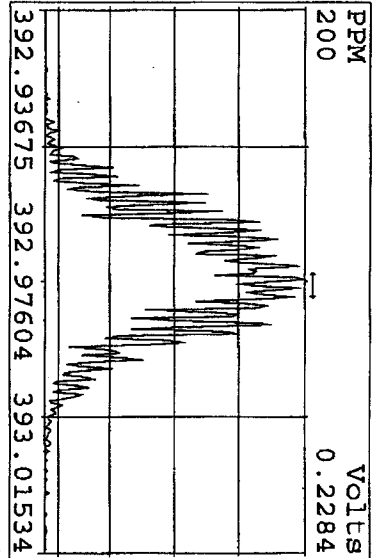
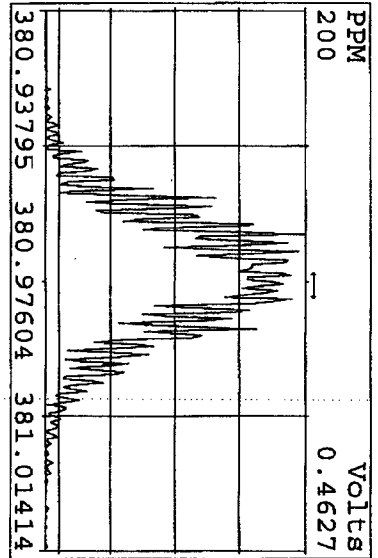
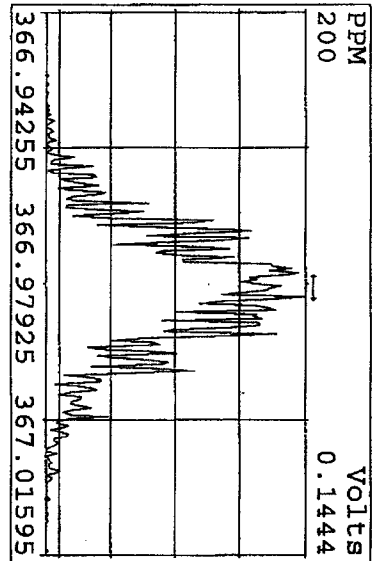
Peak Locate Examination: 29-OCT-2010: 05:33 File: 290C101D5
Experiment: DIOXINRES Function: 1 Reference: PKF



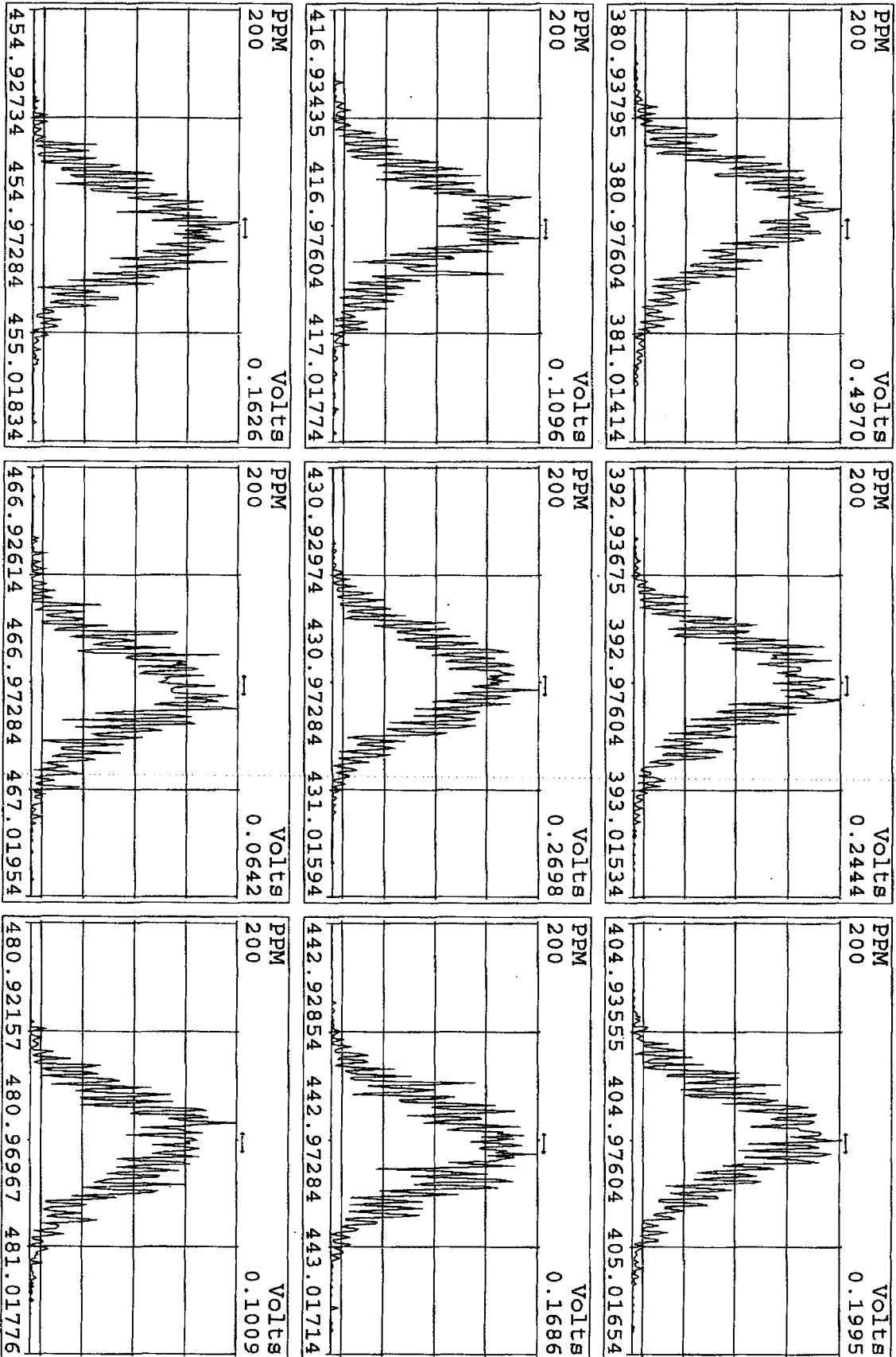
Peak Locate Examination: 29-OCT-2010:05:34 File: 290C101D5
Experiment: DIOXINRES Function: 2 Reference: PFK



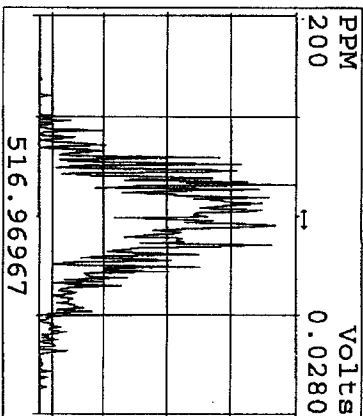
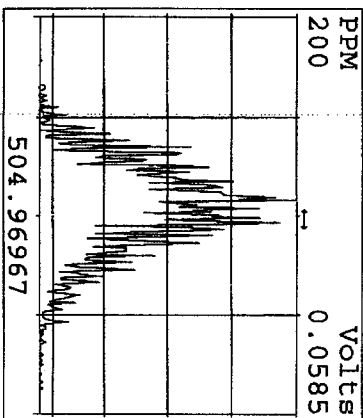
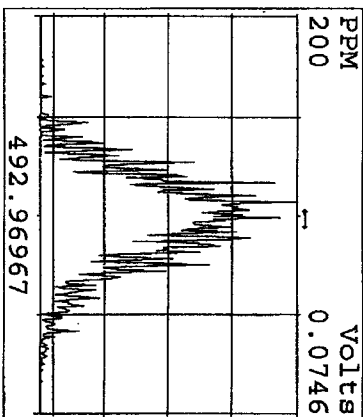
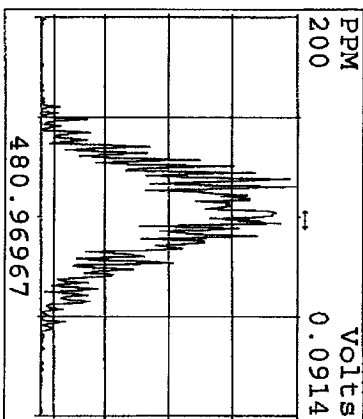
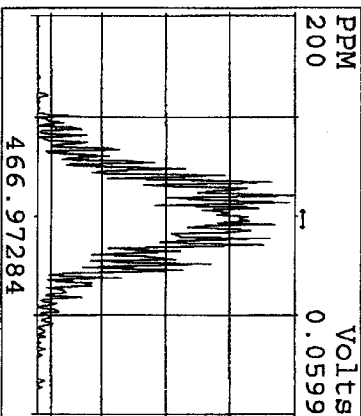
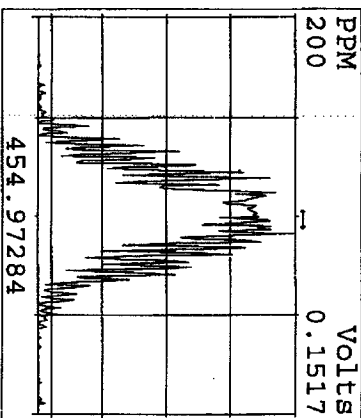
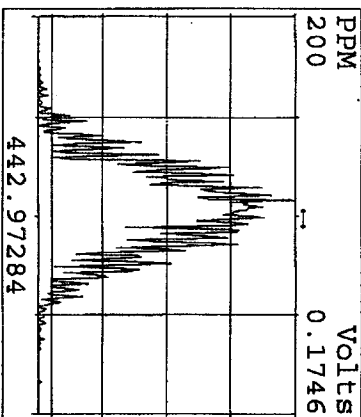
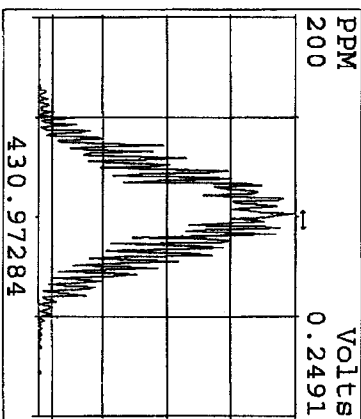
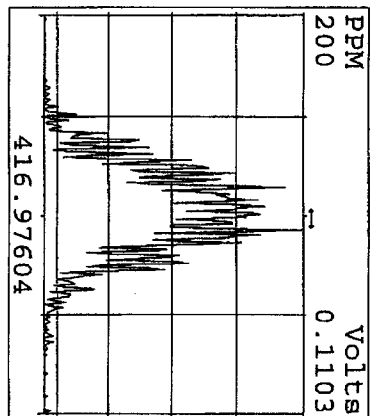
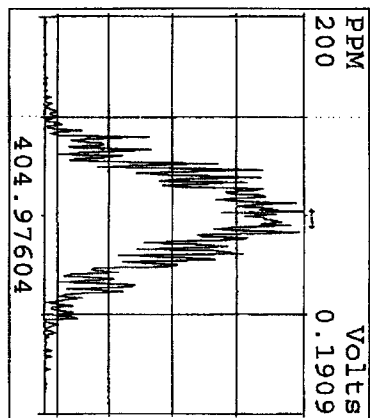
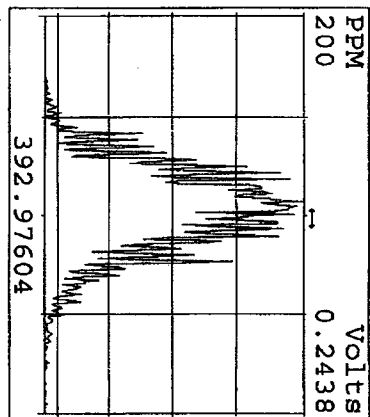
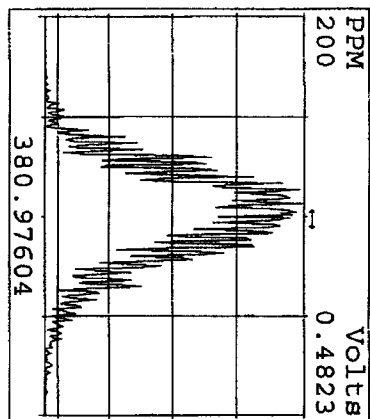
Peak Locate Examination: 29-OCT-2010:05:35 File: 29OC101D5
 Experiment: DIOXINRES Function: 3 Reference: PRK



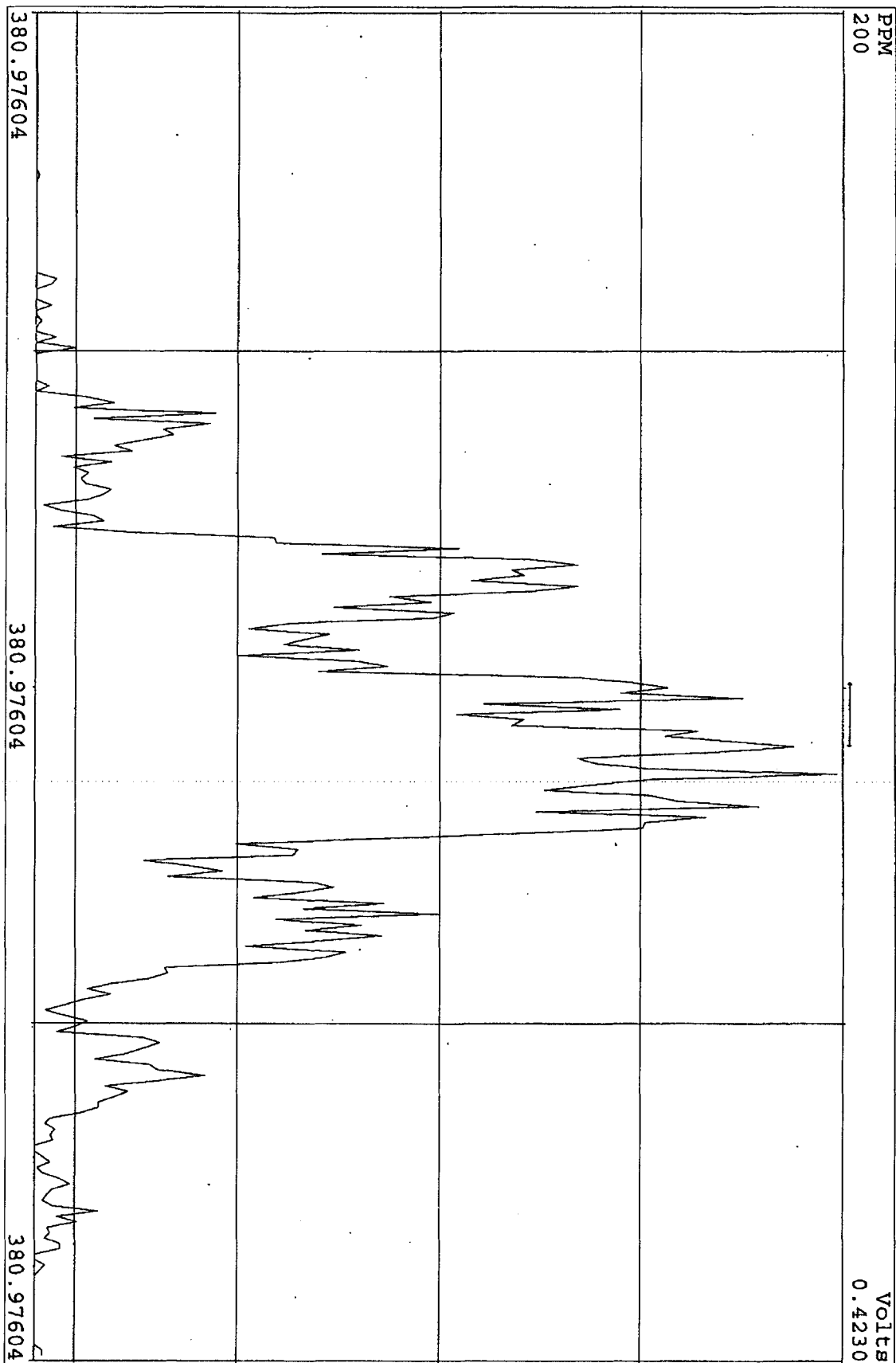
Peak Locate Examination: 29-OCT-2010:05:36 File: 290C101D5
Experiment: DIOXINRES Function: 4 Reference: PRK



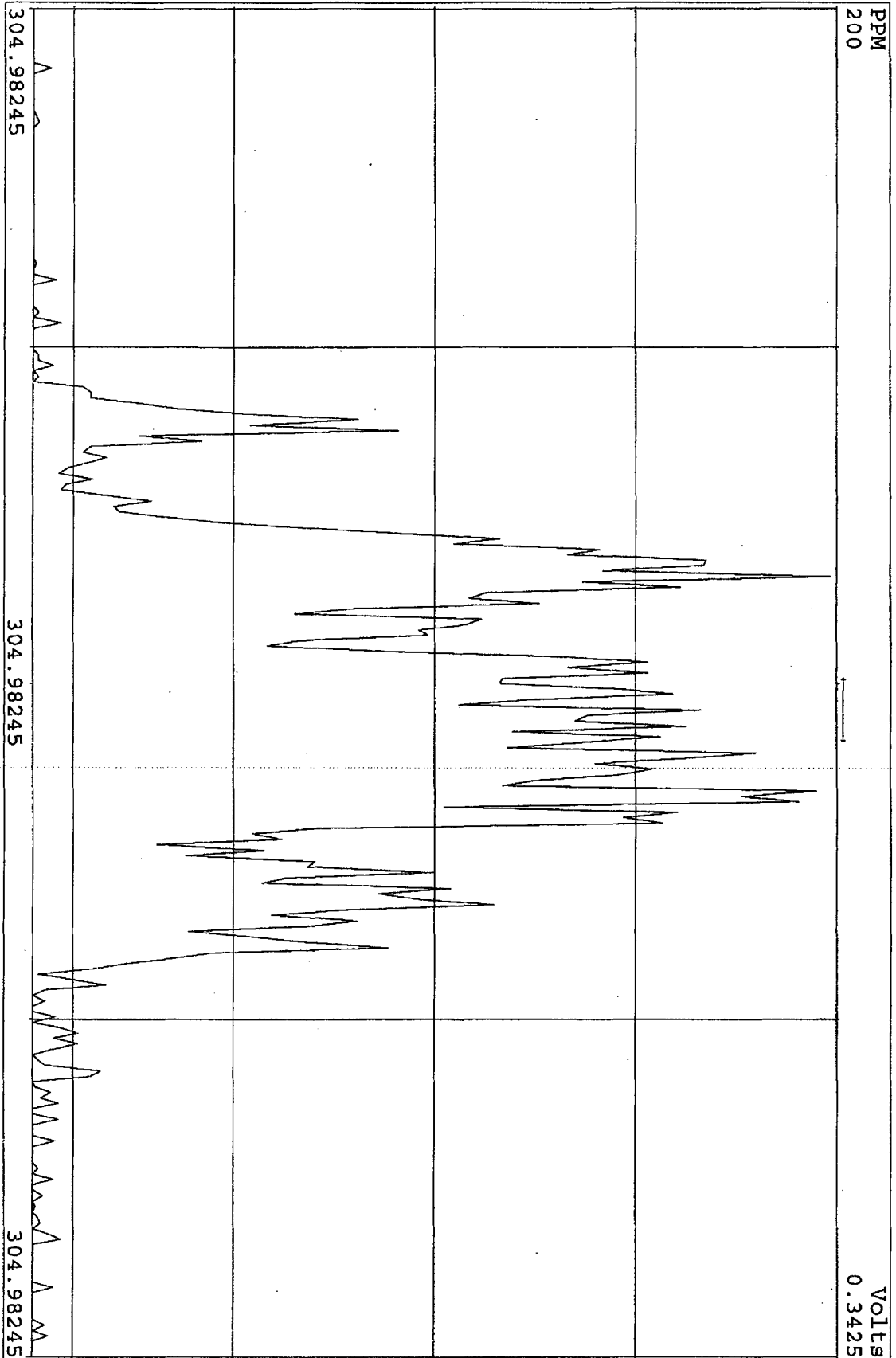
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Experiment: DIOXINRES Function: 5 Reference: PFK



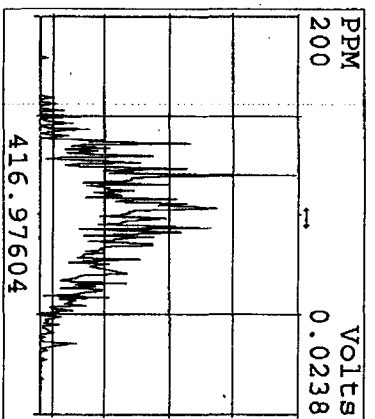
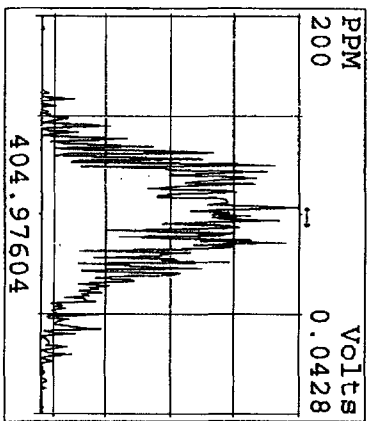
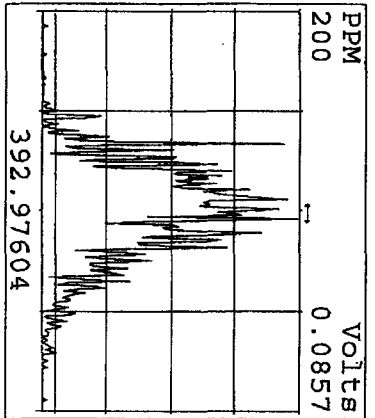
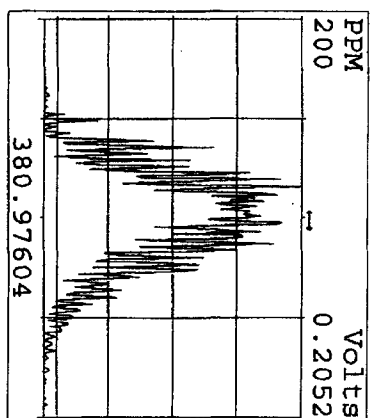
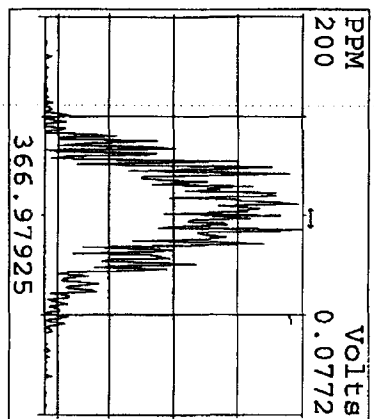
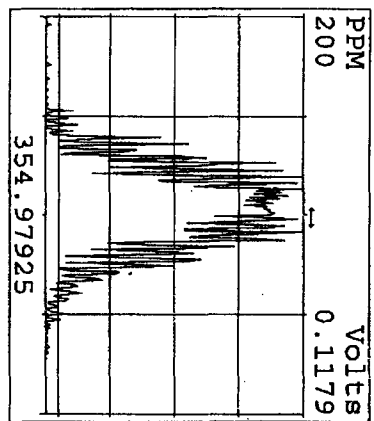
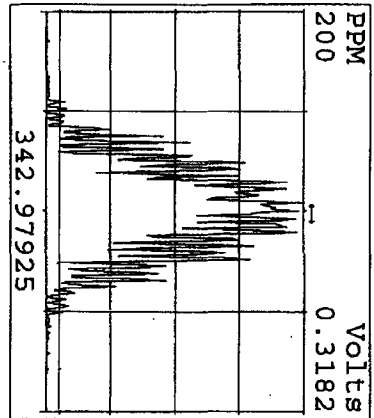
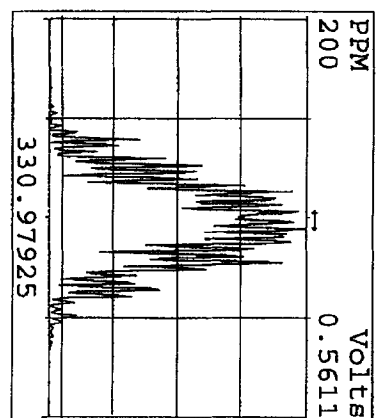
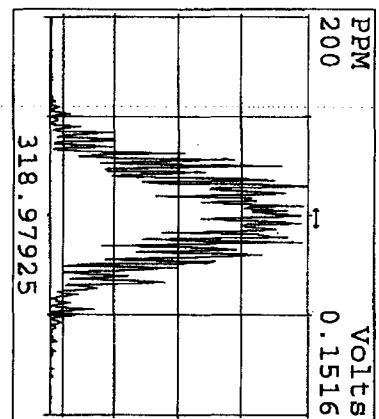
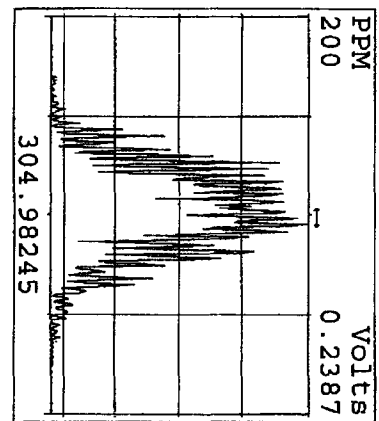
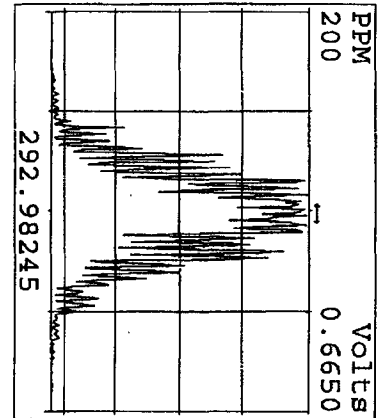
SIRLM Examination: 29-OCT-2010: 11:28 File: 290C101D5
Experiment: DIOXINRES Function: 6



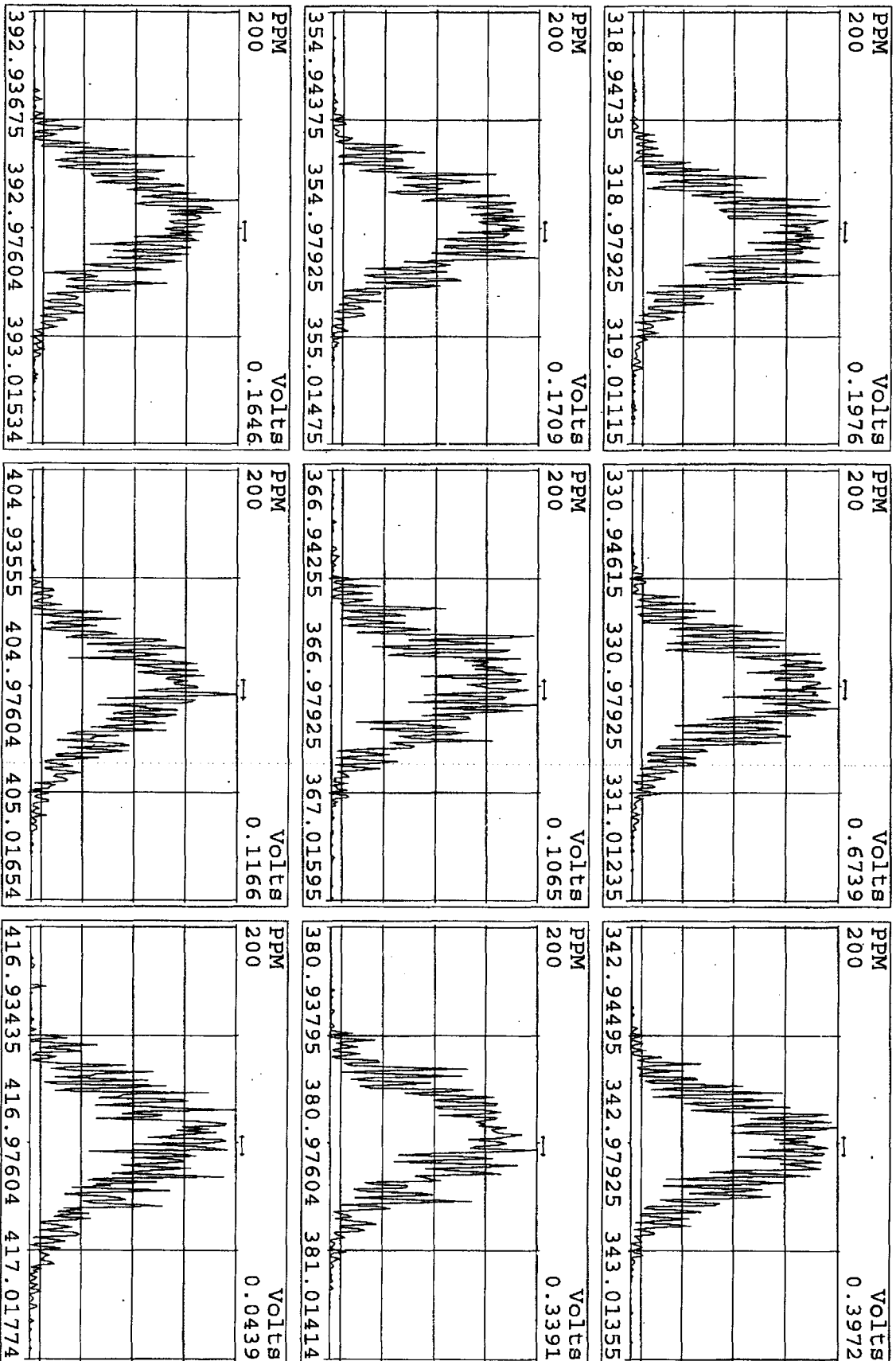
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Experiment: DIOXINRES Function: 7



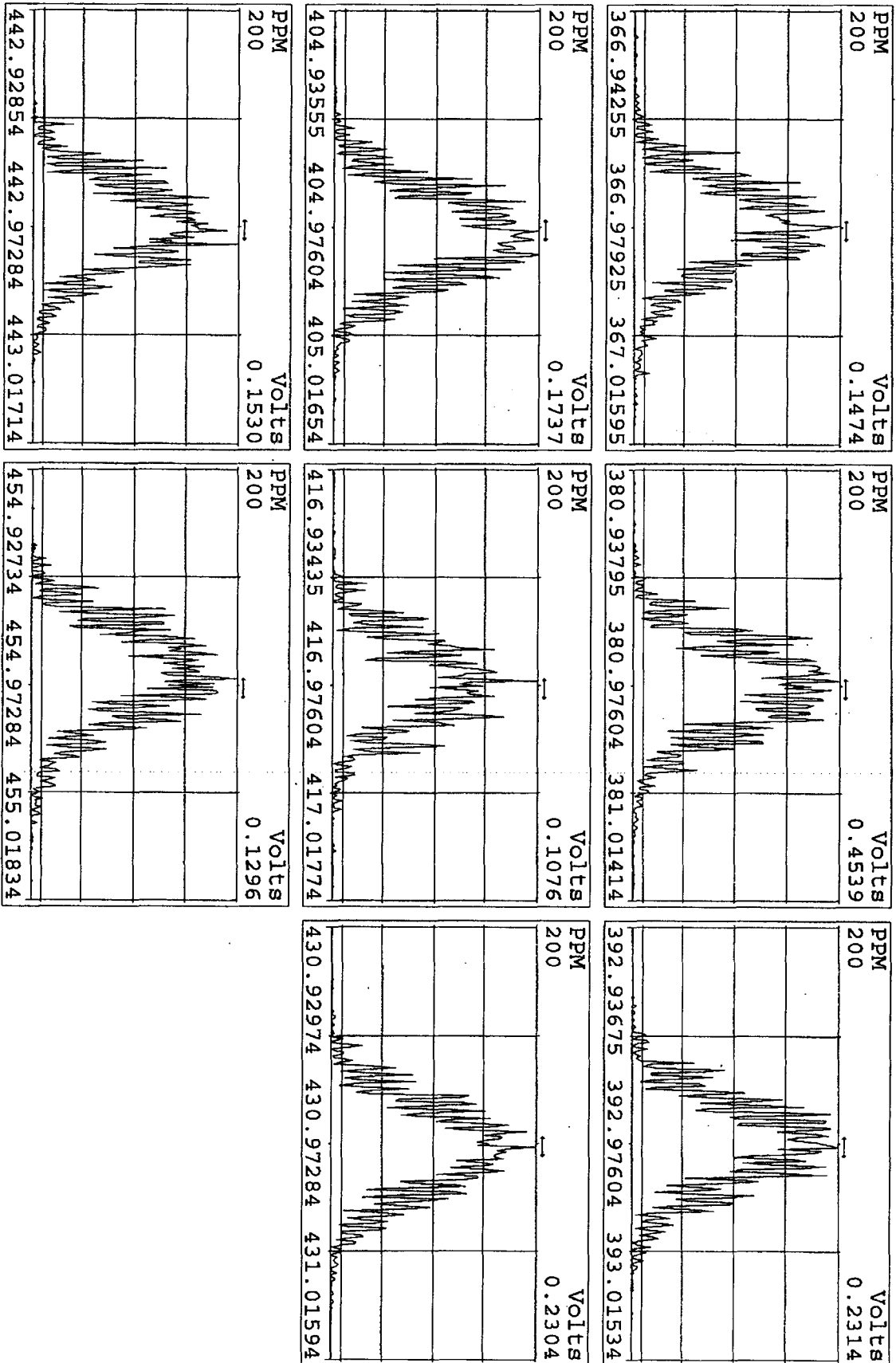
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Experiment: DIOXINRES Function: 1 Reference: PFK



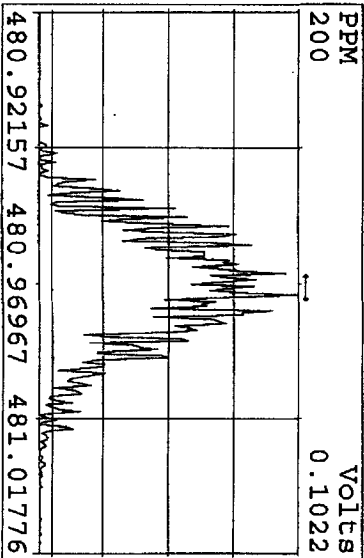
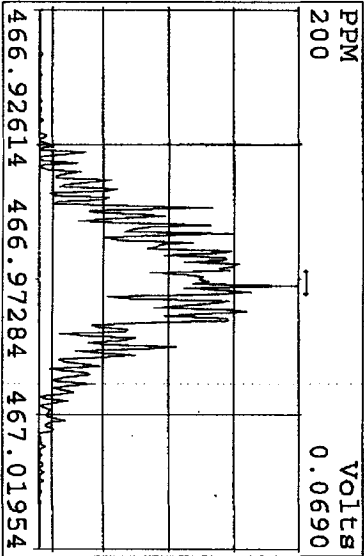
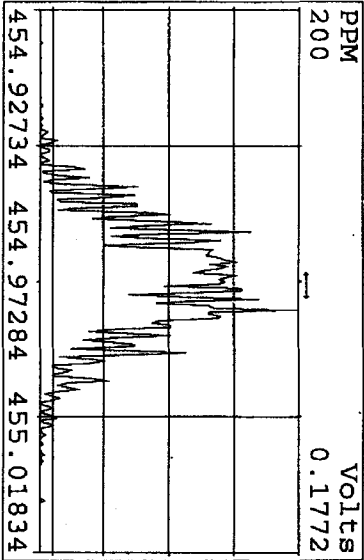
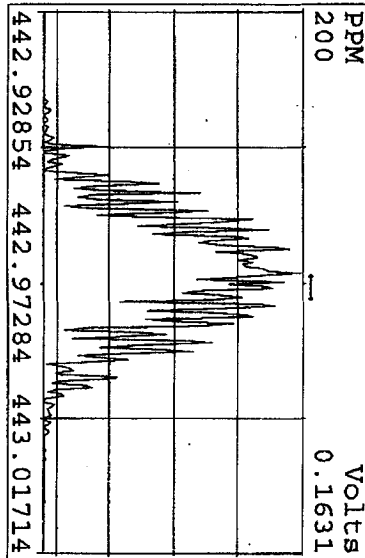
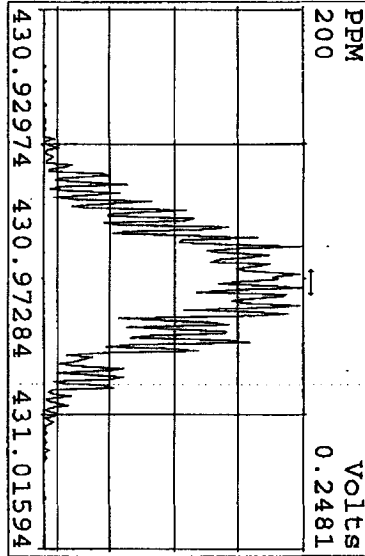
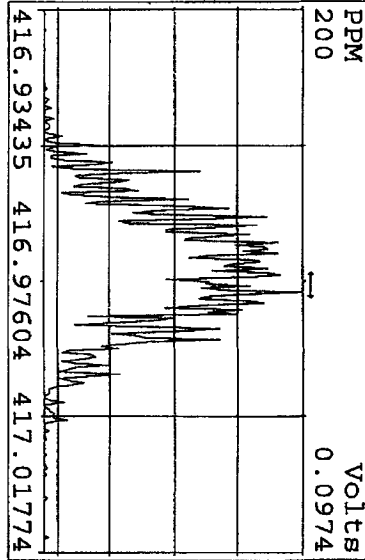
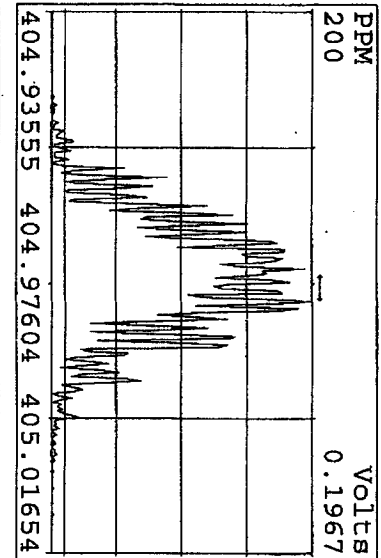
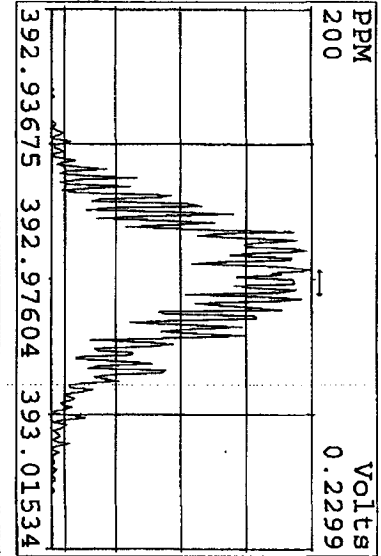
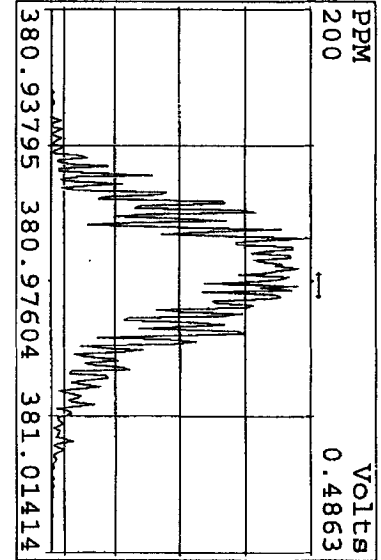
Peak Locate Examination:29-OCT-2010:12:35 File:ENDRES29OC101DS
 Experiment:DIOXINRES Function:2 Reference:PFK



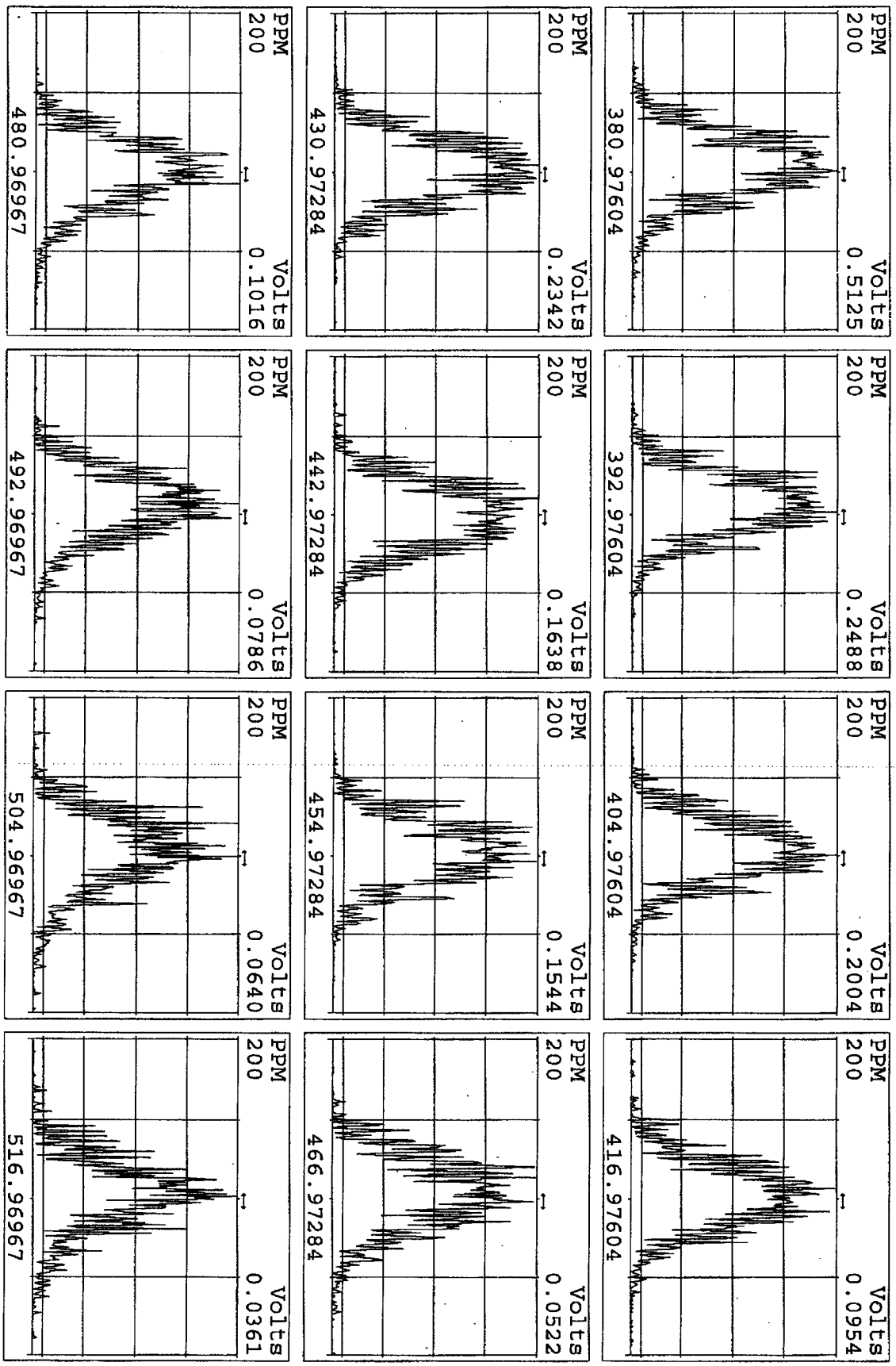
Peak Locate Examination: 29-OCT-2010: 12:35 File: ENDRS290C101DS
 Experiment: DIOXINRES Function: 3 Reference: PK



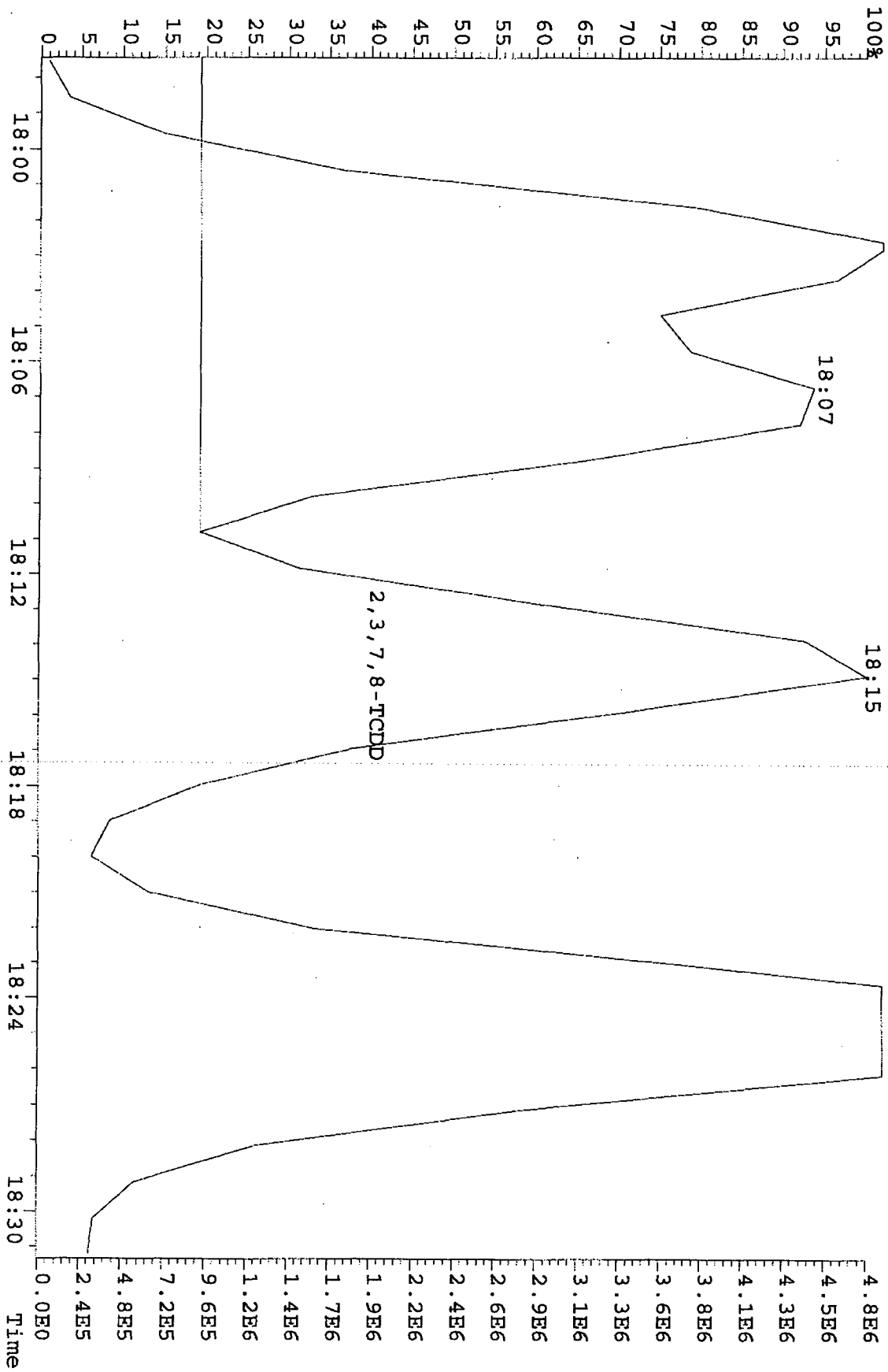
Peak Locate Examination:29-OCT-2010:12:35 File:ENDRES290C101D5
 Experiment:DIOXINRES Function:4 Reference:PFK



Peak Locate Examination:29-OCT-2010:12:36 File:ENDRES290C101D5
Experiment:DIOXINRES Function:5 Reference:PFK



File: 29OC101D5 #1-382 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CPI029 : DB-5 CPM 3732-10 Exp: DIOXINRES
 321.8936



Quantitation Summary

TestAmerica West Sacramento

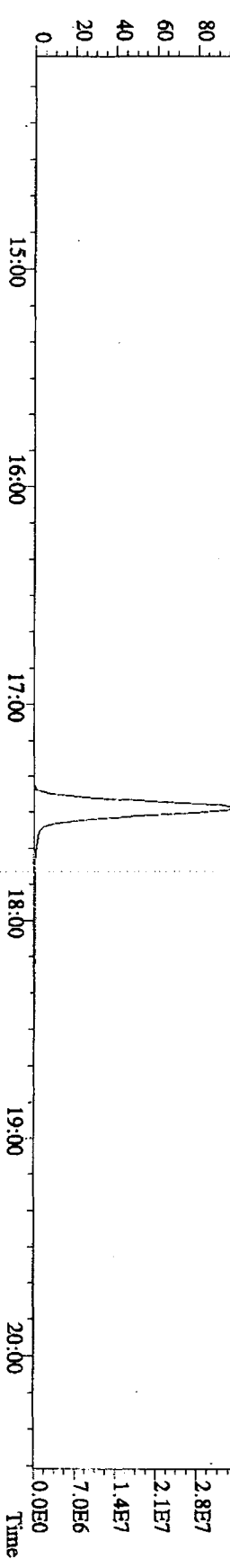
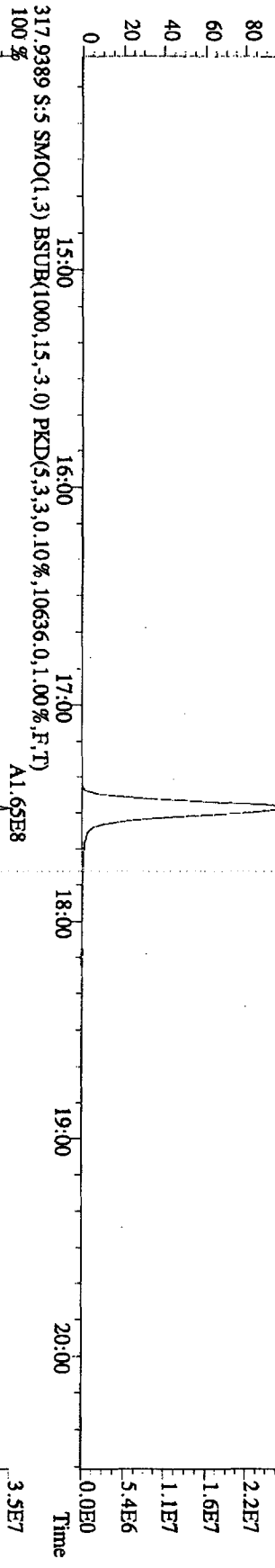
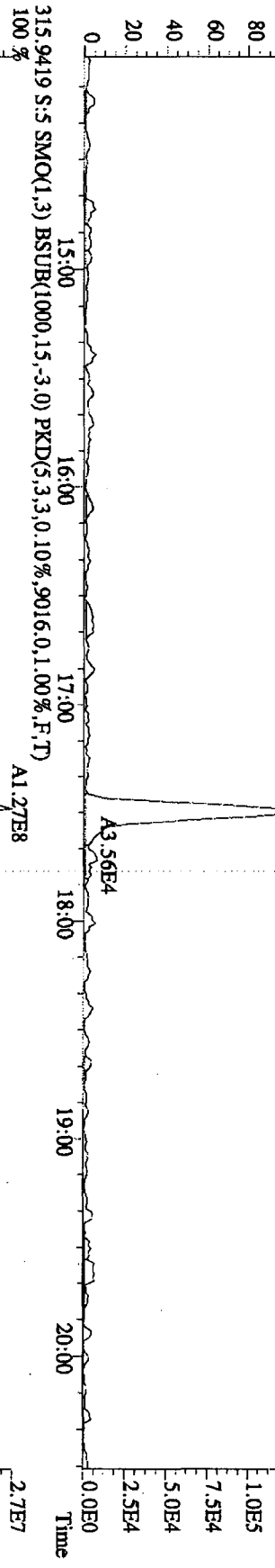
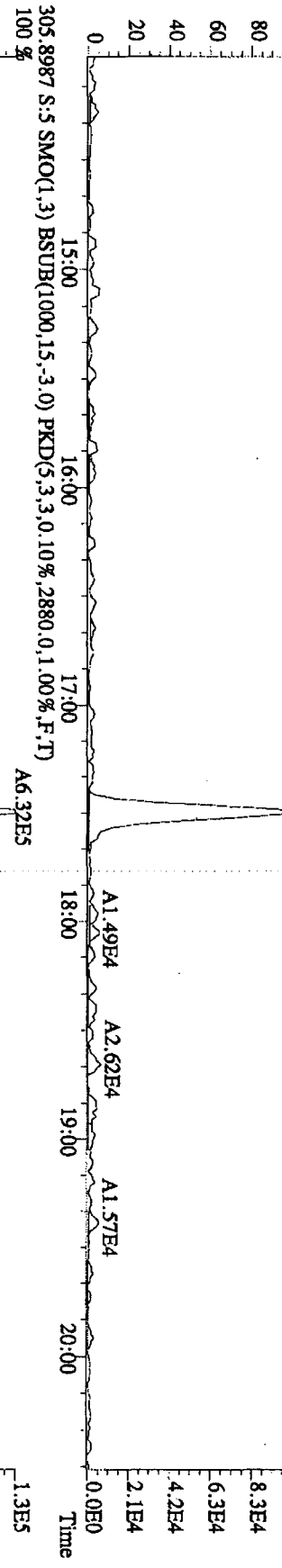
Page 1 o

Run text: ST1029F Sample text: ST1029F :2nd Source 10DXN340
 Run #6 Filename: 29OC101D5 S: 8 I: 1 Results: 29OC101D51613
 Acquired: 29-OCT-10 10:48:50 Processed: 29-OCT-10 11:30:07
 Run: 29OC101D5 Analyte: 1613 Cal: 16131029101D5
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

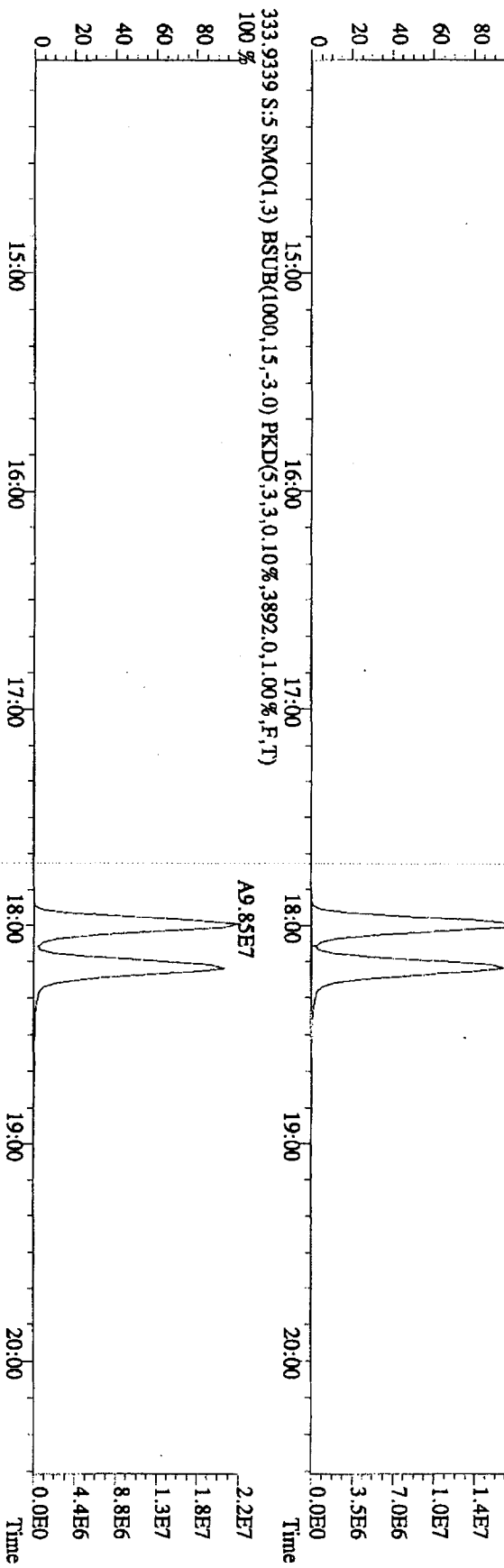
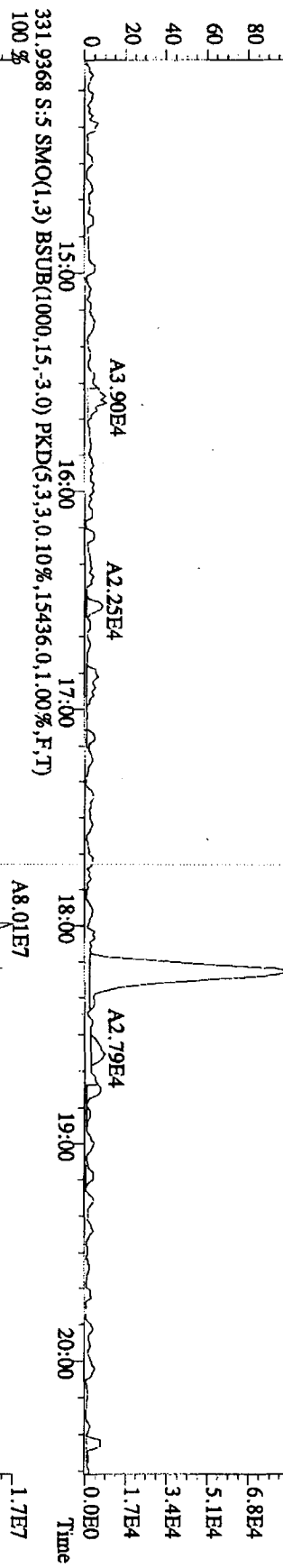
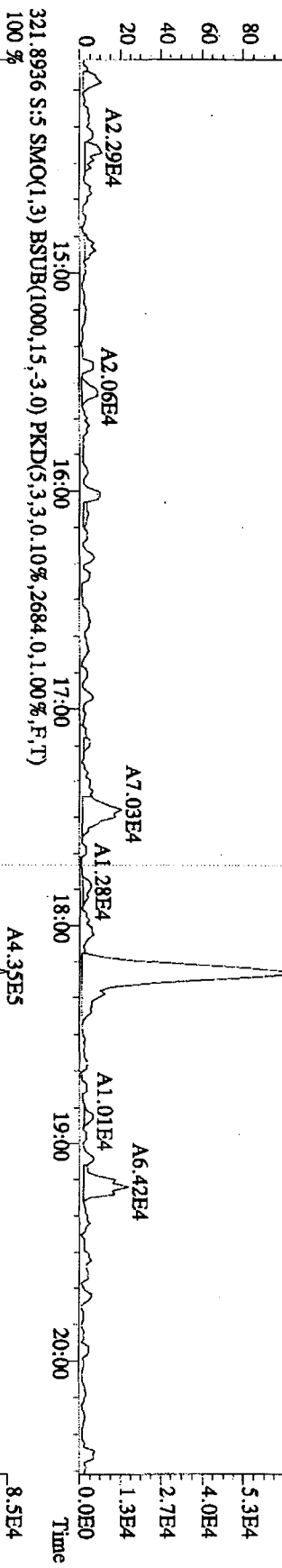
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	92564300	0.77 y	18:00	-	54.13	-	2.7	n
13C-2,3,7,8-TCDF	143564200	0.79 y	17:30	1.57	1970.11	2.78	98.5	n
2,3,7,8-TCDF	11272600	0.79 y	17:31	0.88	178.96	1.25	-	n
Total TCDF	11381281	1.07 n	17:08	0.88	180.69	1.25	-	n
13C-2,3,7,8-TCDD	90661500	0.82 y	18:13	0.99	1980.04	4.02	99.0	n
2,3,7,8-TCDD	7546440	0.70 y	18:14	0.94	177.07	1.66	-	n
Total TCDD	7793506	1.11 n	14:49	0.94	182.87	1.66	-	n
37Cl-2,3,7,8-TCDD	21029400	1.00 y	18:15	1.16	391.63	0.93	97.9	n
13C-1,2,3,7,8-PeCDF	104146500	1.64 y	22:38	1.15	1949.26	5.32	97.5	n
1,2,3,7,8-PeCDF	25156190	1.64 y	22:39	1.03	469.39	3.50	-	n
13C-2,3,4,7,8-PeCDF	96702800	1.64 y	23:58	1.08	1935.63	5.68	96.8	n
2,3,4,7,8-PeCDF	23021040	1.66 y	24:00	1.01	470.33	4.04	-	n
Total F2 PeCDF	48290463	1.64 y	22:39	1.02	941.92	3.76	-	n
Total F1 PeCDF	121792	0.95 n	14:43	1.02	2.38	1.72	-	n
13C-1,2,3,7,8-PeCDD	61266500	1.70 y	24:42	0.67	1984.62	2.34	99.2	n
1,2,3,7,8-PeCDD	12599210	1.63 y	24:43	0.96	427.98	4.44	-	n
Total PeCDD	12947644	2.41 n	22:41	0.96	439.82	4.44	-	n
13C-1,2,3,7,8,9-HxCDD	73661500	1.25 y	30:55	-	54.79	-	-	n
13C-1,2,3,4,7,8-HxCDF	83181700	0.52 y	29:39	1.15	1966.86	8.37	98.3	n
1,2,3,4,7,8-HxCDF	23600500	1.24 y	29:40	1.22	465.49	2.34	-	n
13C-1,2,3,6,7,8-HxCDF	110435100	0.51 y	29:47	1.42	2110.41	6.76	105.5	n
1,2,3,6,7,8-HxCDF	28544900	1.28 y	29:48	1.14	453.20	2.11	-	n
13C-2,3,4,6,7,8-HxCDF	90093800	0.53 y	30:23	1.22	1999.89	7.86	100.0	n
2,3,4,6,7,8-HxCDF	23432700	1.23 y	30:24	1.16	448.73	2.23	-	n
13C-1,2,3,7,8,9-HxCDF	84499100	0.52 y	31:06	1.10	2084.87	8.73	104.2	n
1,2,3,7,8,9-HxCDF	21764420	1.26 y	31:07	1.13	455.44	2.80	-	n
Total HxCDF	97342520	1.24 y	29:40	1.16	1822.86	2.35	-	n
13C-1,2,3,4,7,8-HxCDD	58861000	1.31 y	30:32	0.84	1909.63	0.84	95.5	n
1,2,3,4,7,8-HxCDD	13151350	1.26 y	30:32	1.00	447.24	2.78	-	n
13C-1,2,3,6,7,8-HxCDD	74192600	1.27 y	30:37	0.96	2100.87	0.73	105.0	n
1,2,3,6,7,8-HxCDD	16558040	1.27 y	30:38	1.05	425.92	2.63	-	n
1,2,3,7,8,9-HxCDD	16507470	1.32 y	30:56	1.07	462.71	2.58	-	n
Total HxCDD	46346111	1.26 y	30:32	1.04	1339.61	2.65	-	n
13C-1,2,3,4,6,7,8-HpCDF	78858200	0.42 y	32:31	0.98	2175.21	13.78	108.8	n
1,2,3,4,6,7,8-HpCDF	23365100	1.03 y	32:32	1.33	445.07	4.60	-	n
13C-1,2,3,4,7,8,9-HpCDF	65576900	0.43 y	33:45	0.88	2030.65	15.47	101.5	n
1,2,3,4,7,8,9-HpCDF	19159670	1.03 y	33:45	1.25	467.00	7.95	-	n
Total HpCDF	42524770	1.03 y	32:32	1.29	912.08	6.08	-	n

13C-1,2,3,4,6,7,8-HpCDD	64726800	1.10	y	33:24	0.82	2131.72	3.67	106.6	n
1,2,3,4,6,7,8-HpCDD	15036410	1.09	y	33:25	1.05	443.28	3.39	-	n
Total HpCDD	15095806	0.88	y	32:48	1.05	445.03	3.39	-	n
13C-OCDD	79760000	0.87	y	36:02	0.54	3996.94	11.70	99.9	n
OCDF	31323900	0.93	y	36:09	1.58	994.32	6.44	-	n
OCDD	21915600	0.86	y	36:02	1.13	969.96	8.02	-	n

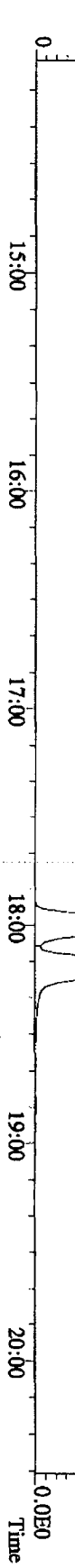
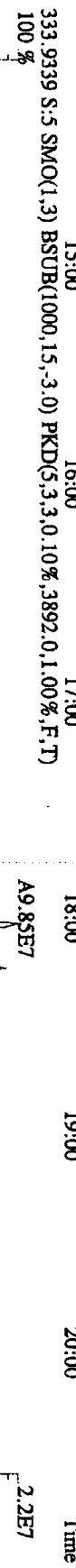
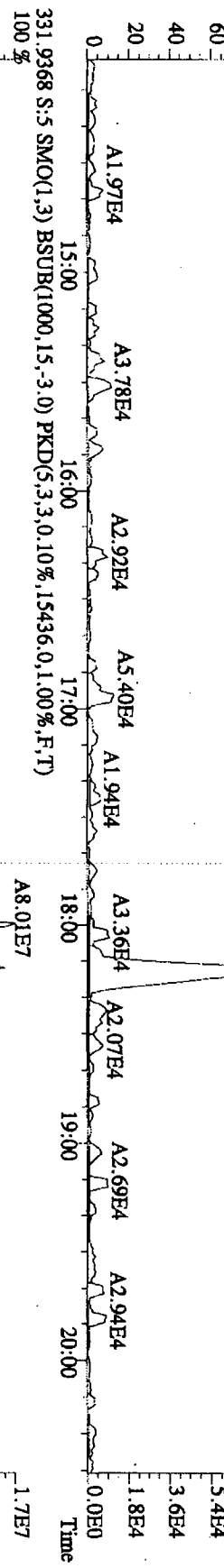
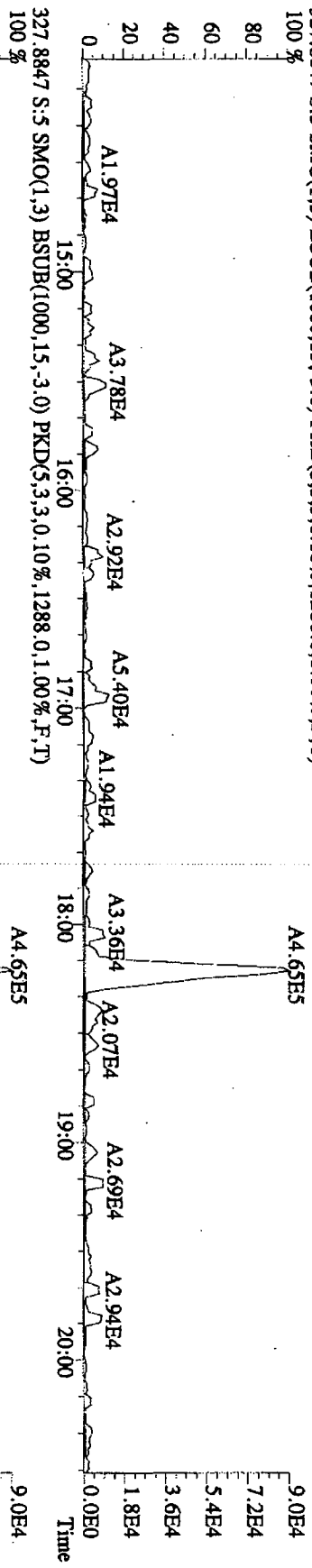
File:29OC101D5 #1-382 Acq:29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029C :CS1 10DXN503 Exp:DIOXINES
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1764,0,1.00%,F,T)
 100 %



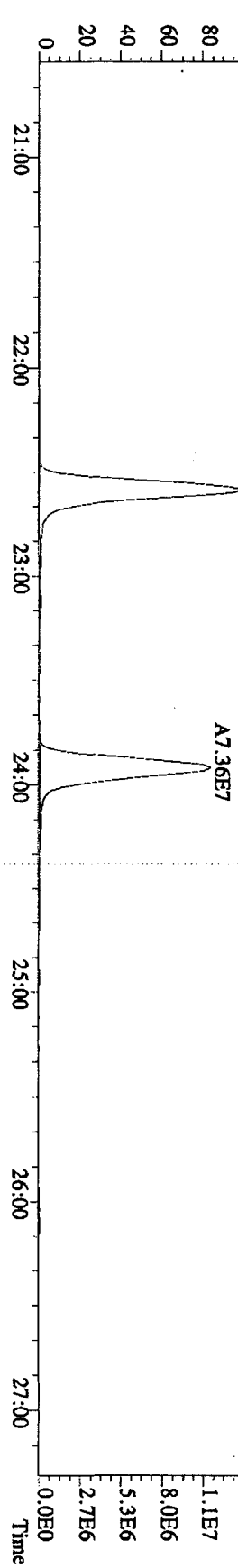
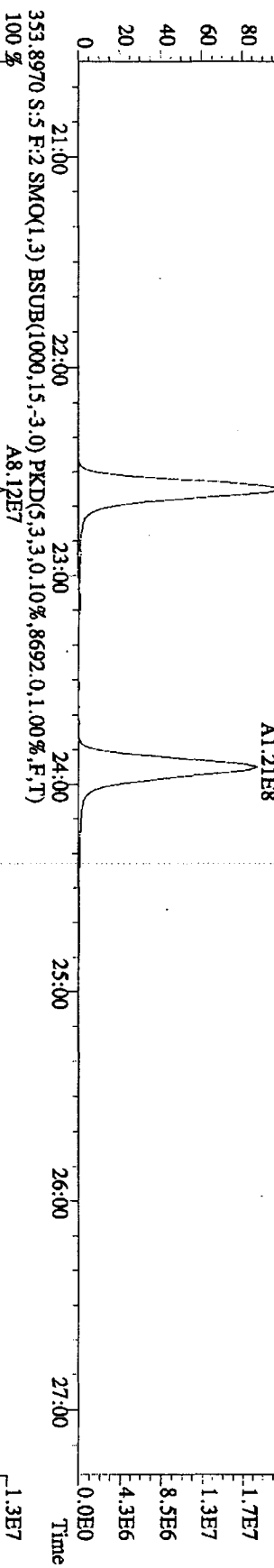
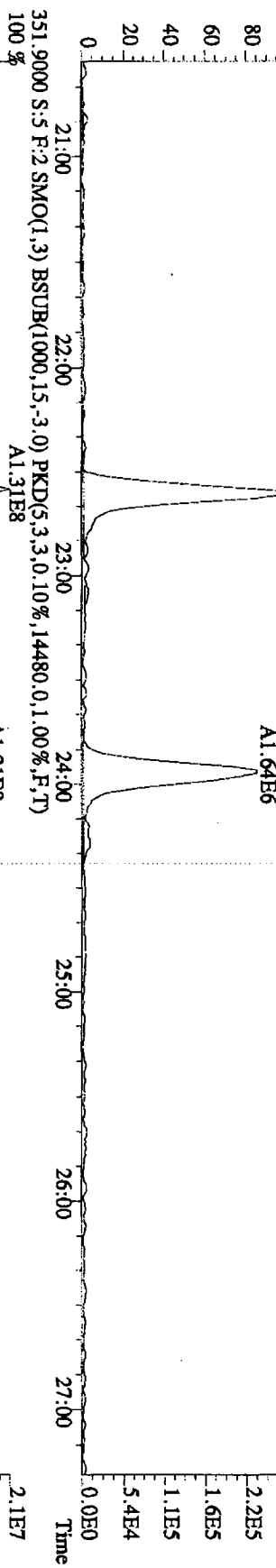
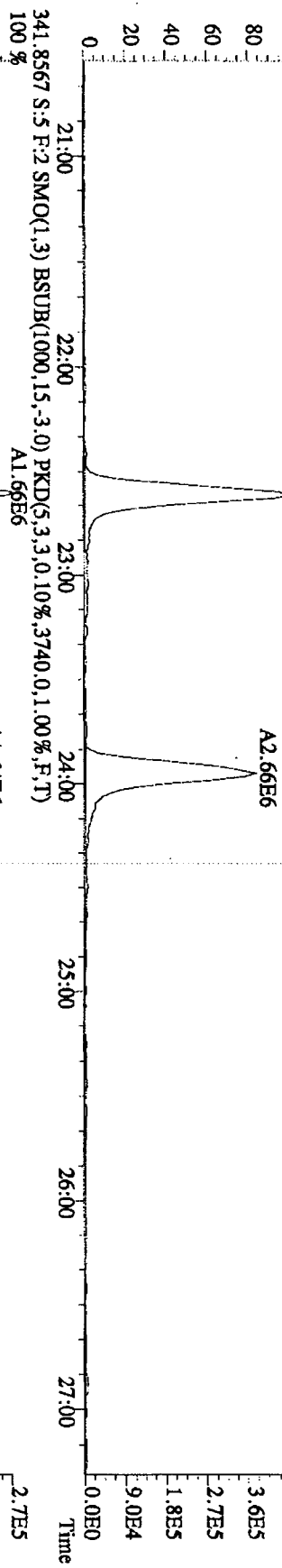
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 Sample#5 Text:ST1029C :CS1 10DXNS03 Exp:DI0XINRES
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2288,0,1,00%,F,T)



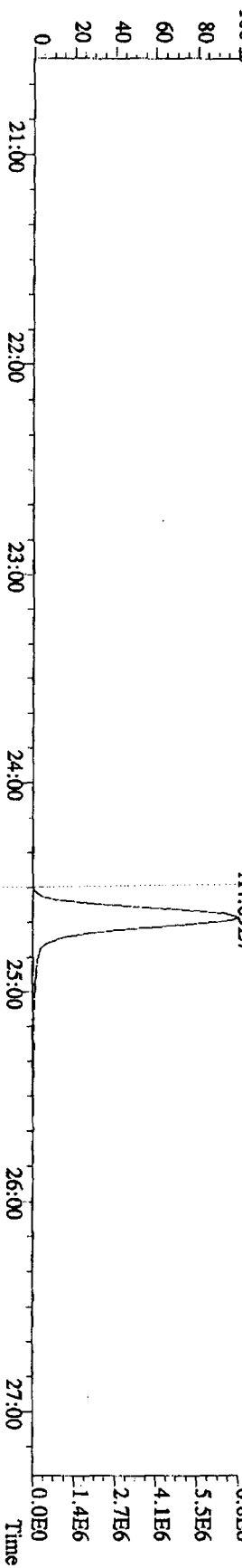
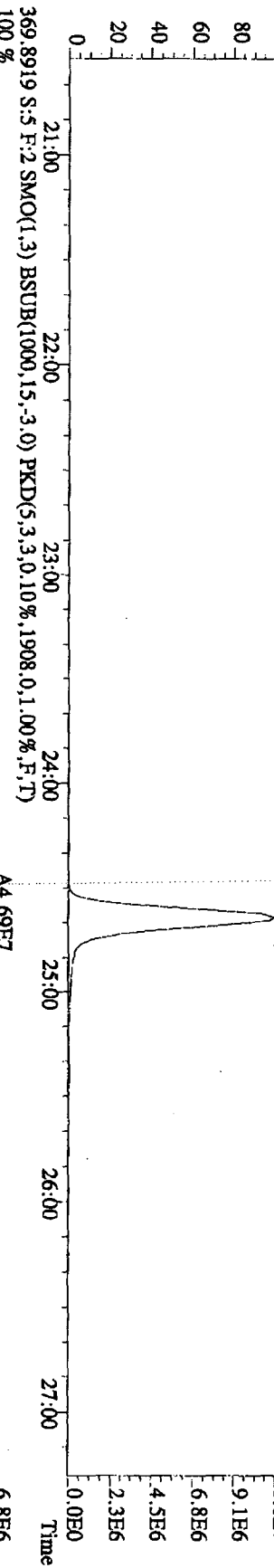
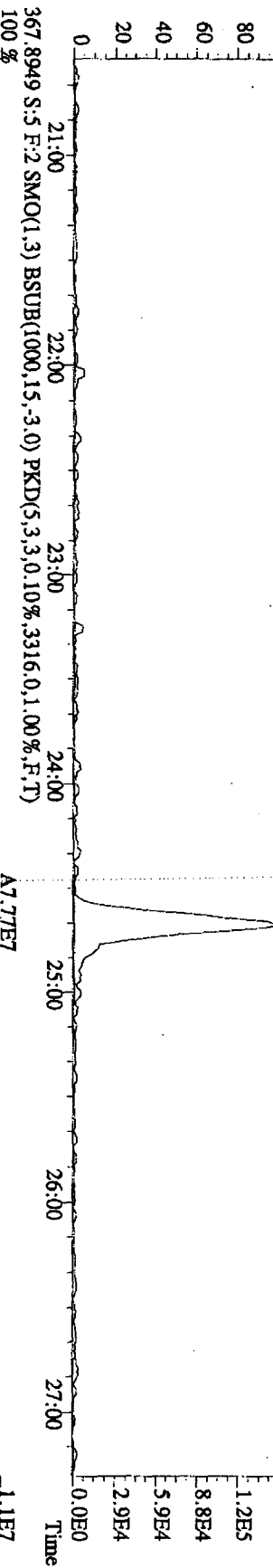
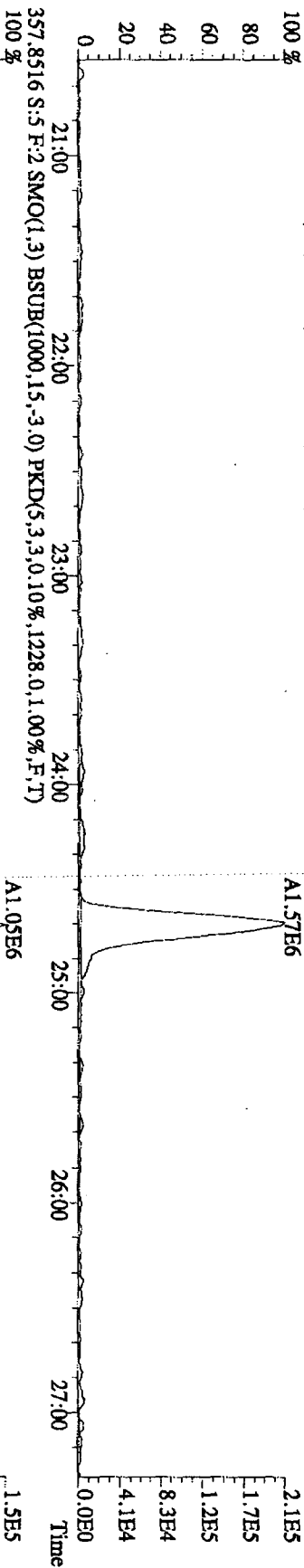
File:290C101D5 #1-382 Acq:29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029C :CSI 10DDXN503 Exp:DIOXINRES
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1288,0,1,00%,F,T)
 100 %



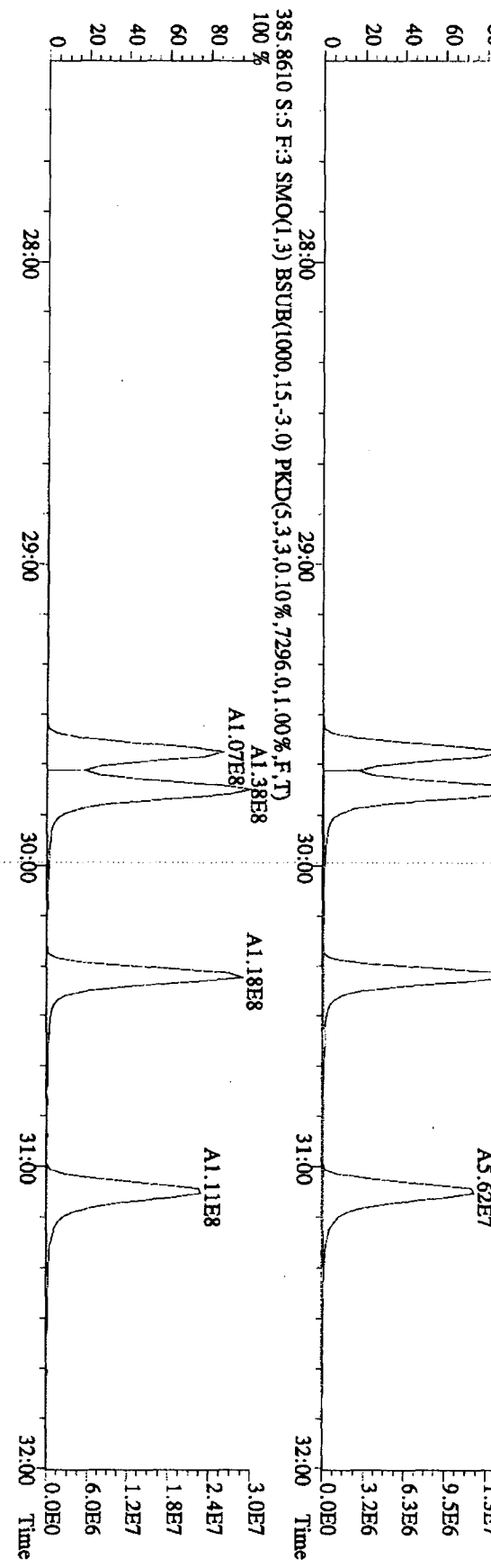
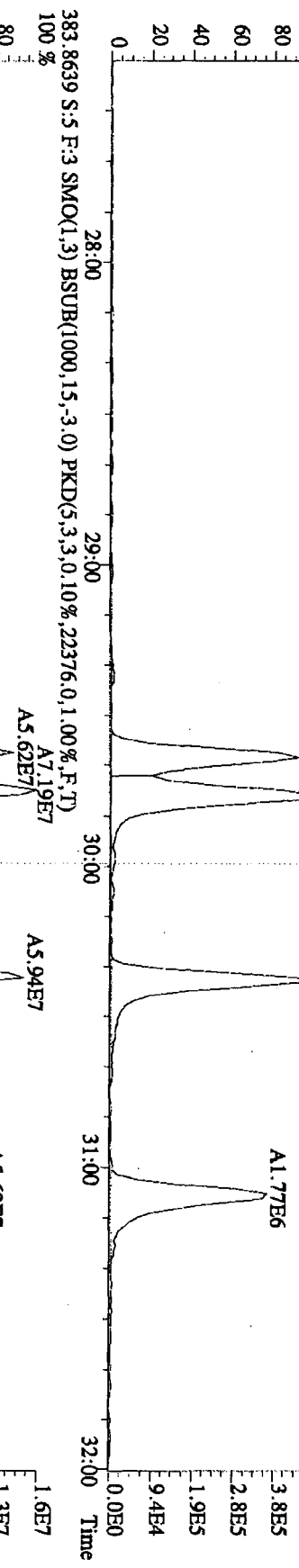
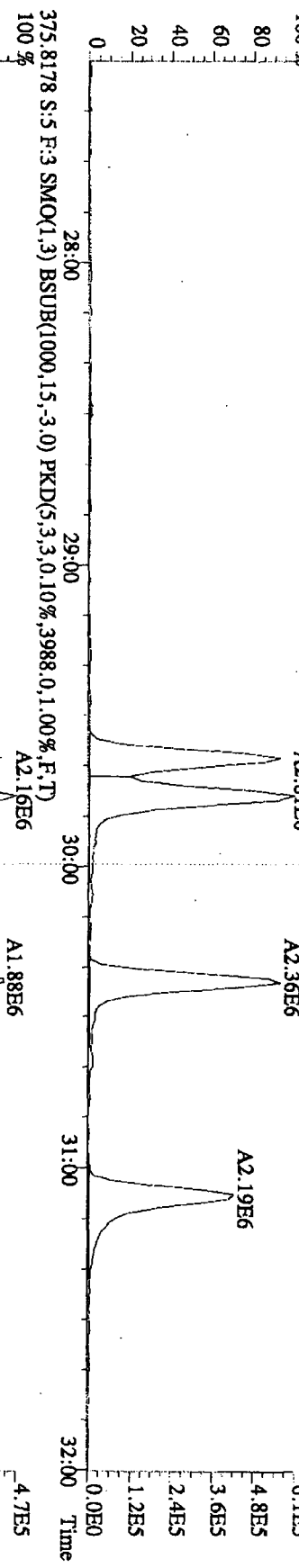
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 Sample#5 Text:ST1029C :CSI 10DXN503 Exp:DIOXINRES
 339.8597 S.S.F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2528,0,1.00%,F,T)
 100 % A2.83E6



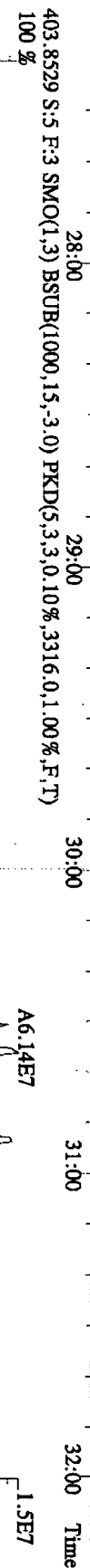
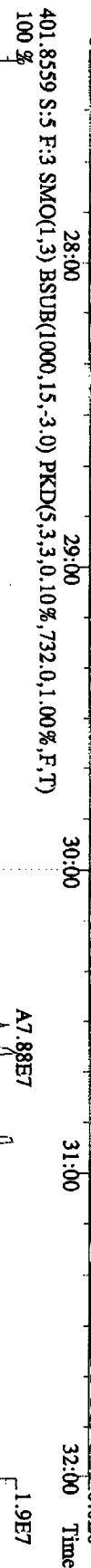
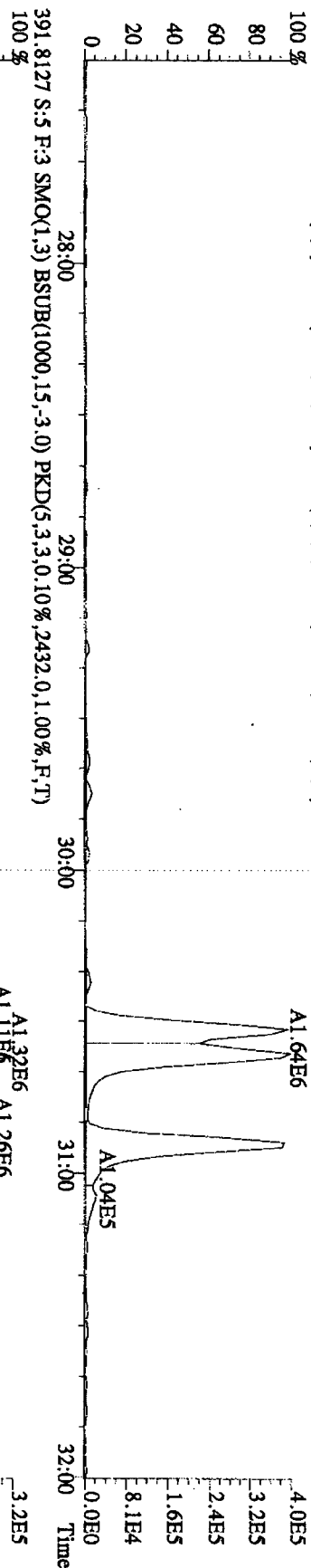
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 Sample#5 Text: ST1029C ; CSI 10DXNS03 Exp: DIOXINRES
 355 8546 S:5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2236,0,1,100%,F,T)
 100 %



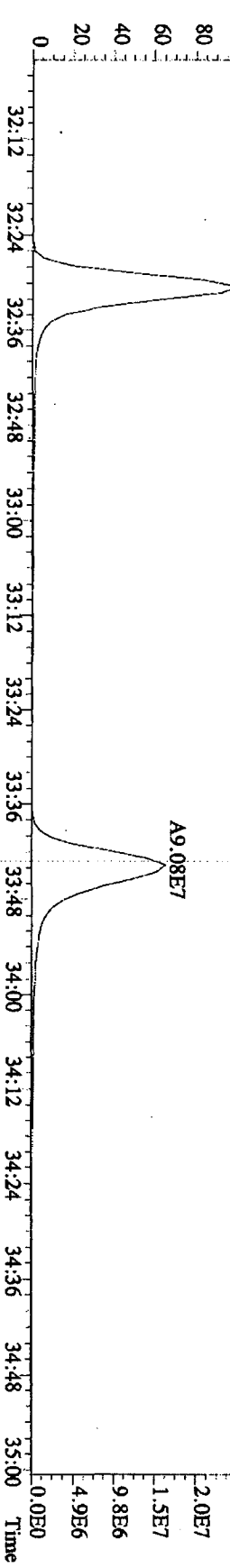
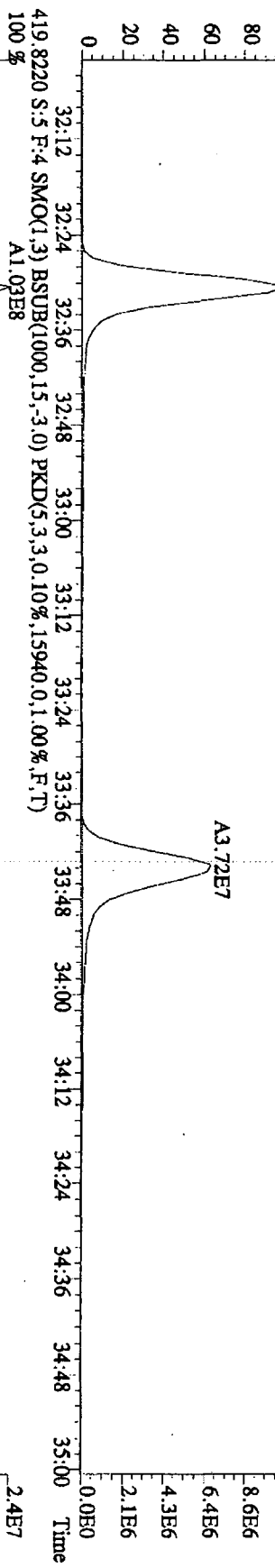
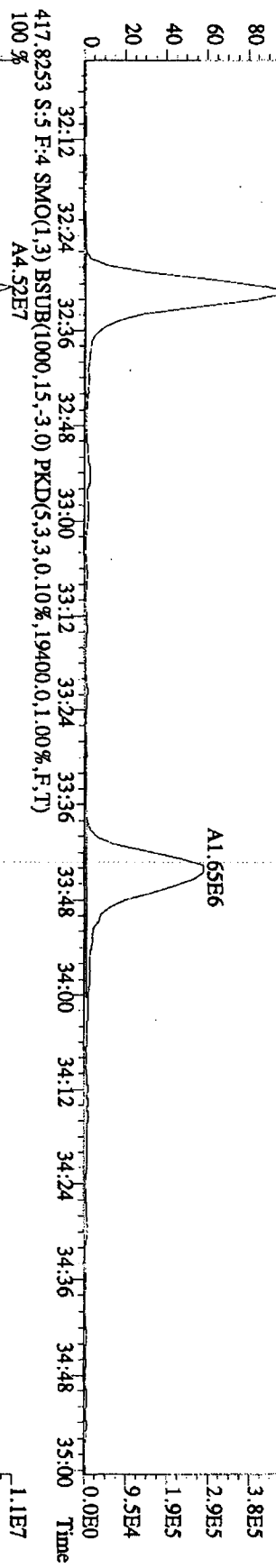
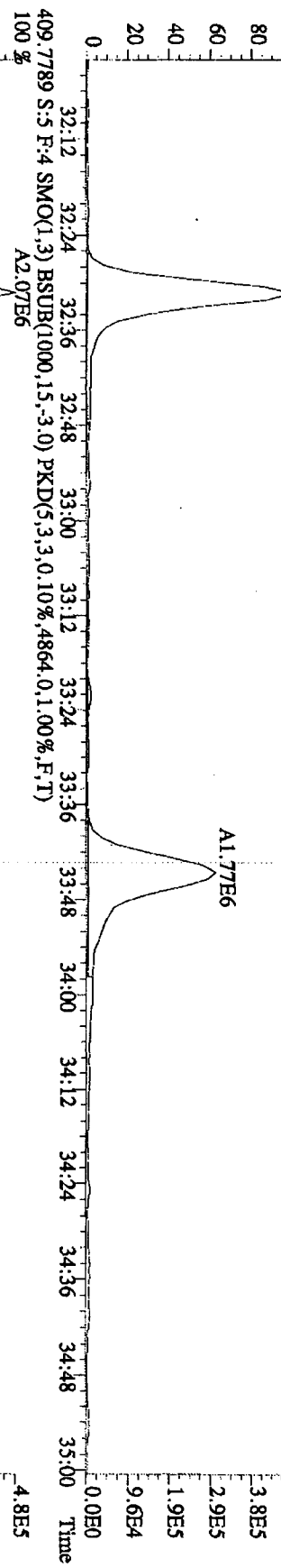
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 Sample#5 Text:ST1029C :CSI 10DXNS03 Exp:DIOXINRES
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3608,0.1,00%,F,T)



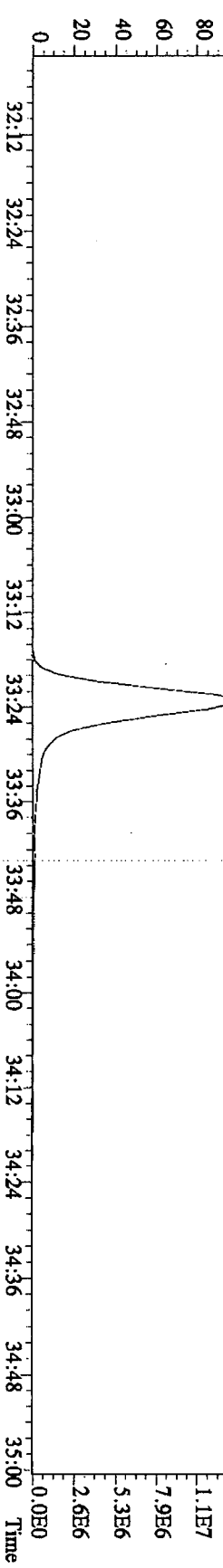
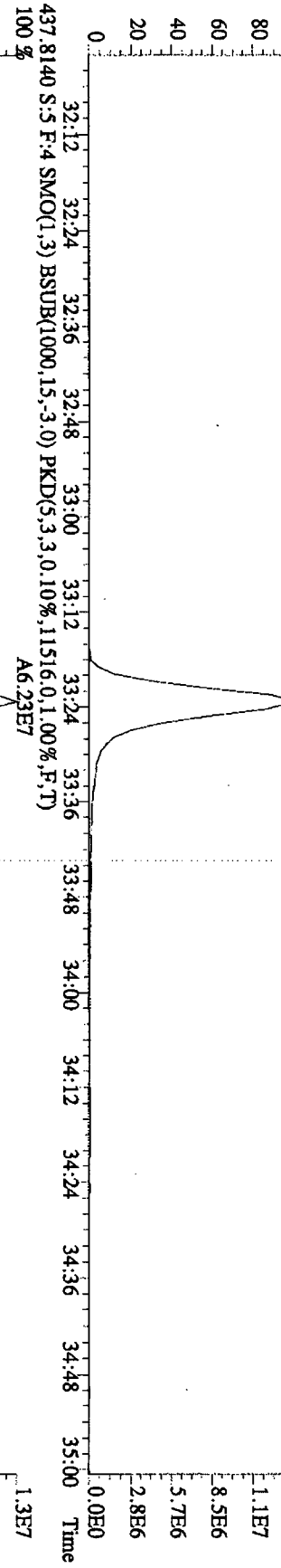
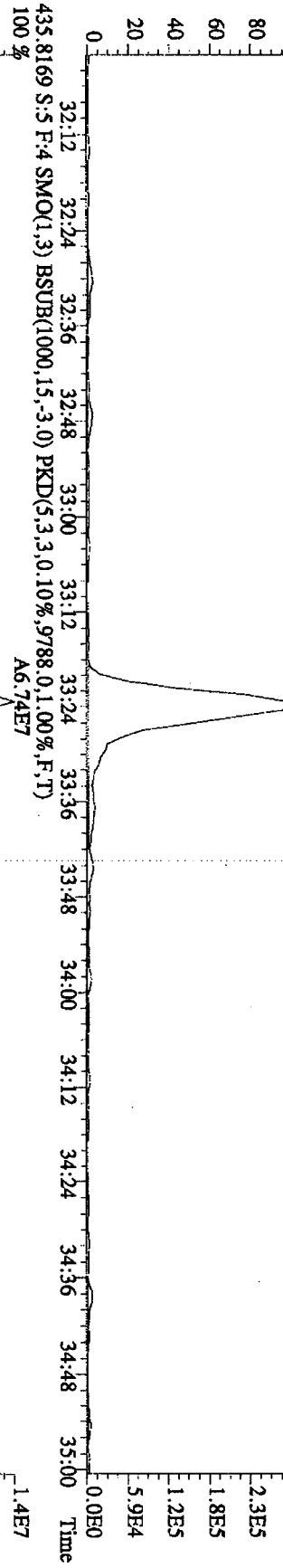
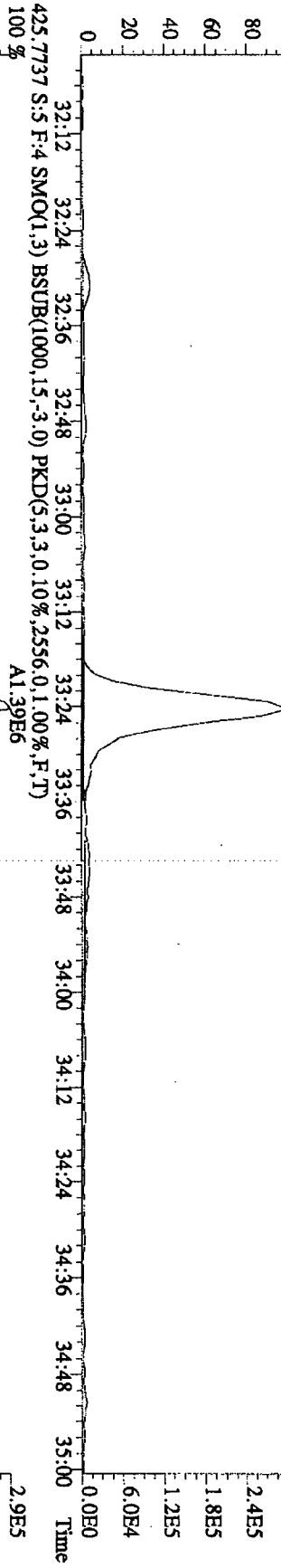
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 Sample#5 Text:ST1029C :CSI 10DXN503 Exp:DIOXINES
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2864,0,1,00%,F,T)



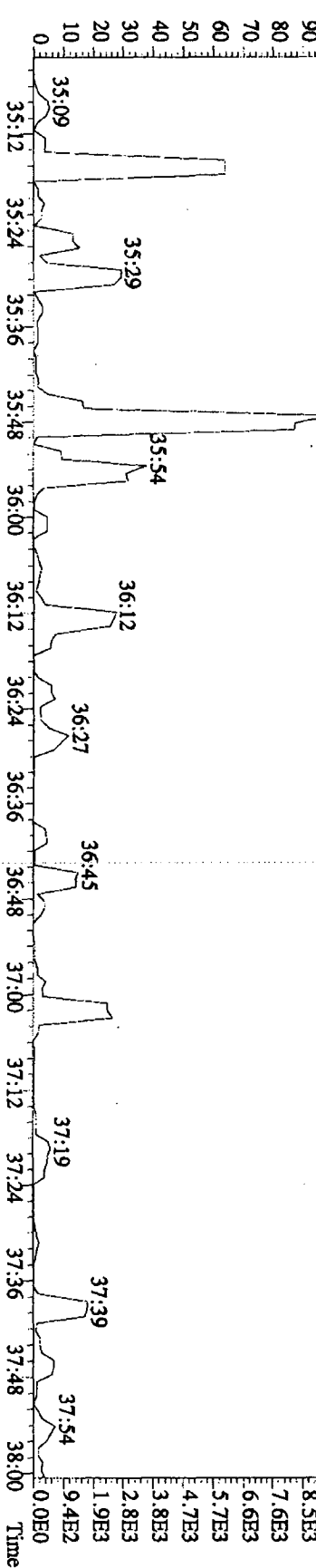
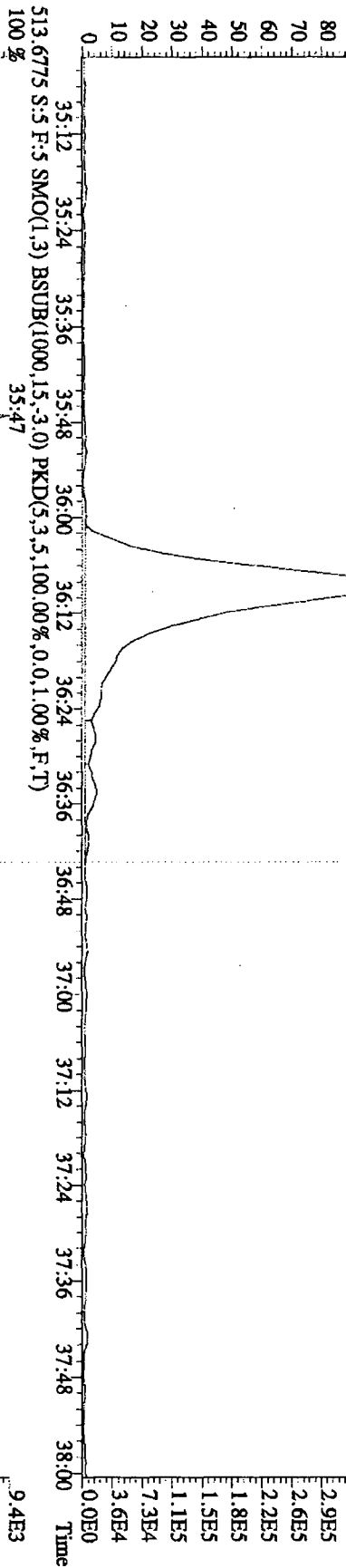
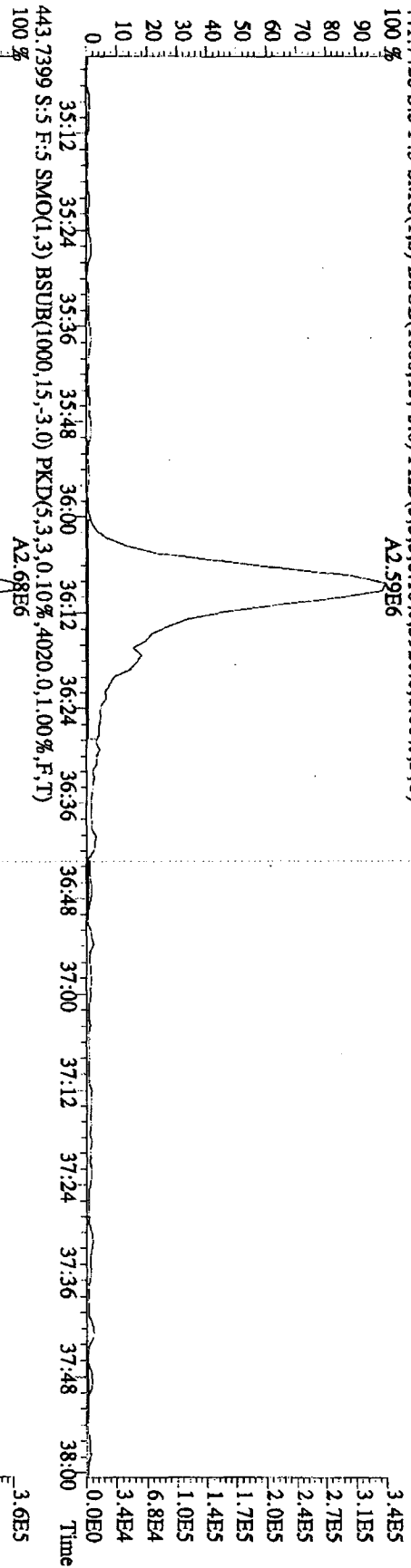
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 Sample#5 Text: ST1029C : CSI 10DXNS03 Exp: DIOXINRES
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5136,0,1,00%,F,T)
 100 % A2.03E6



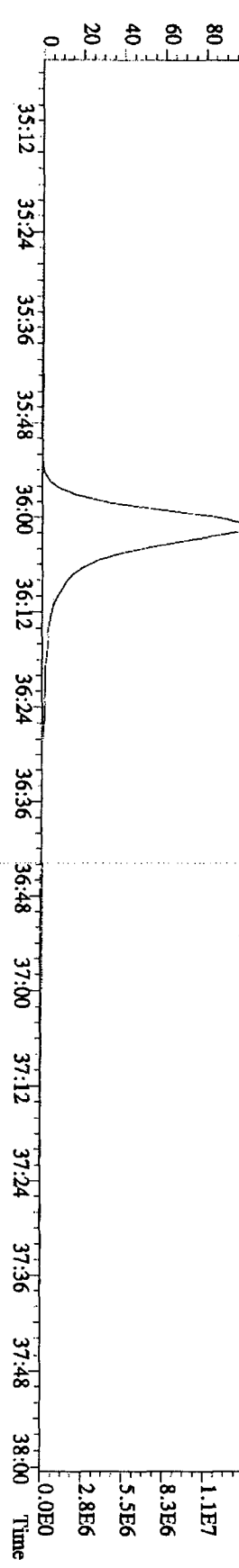
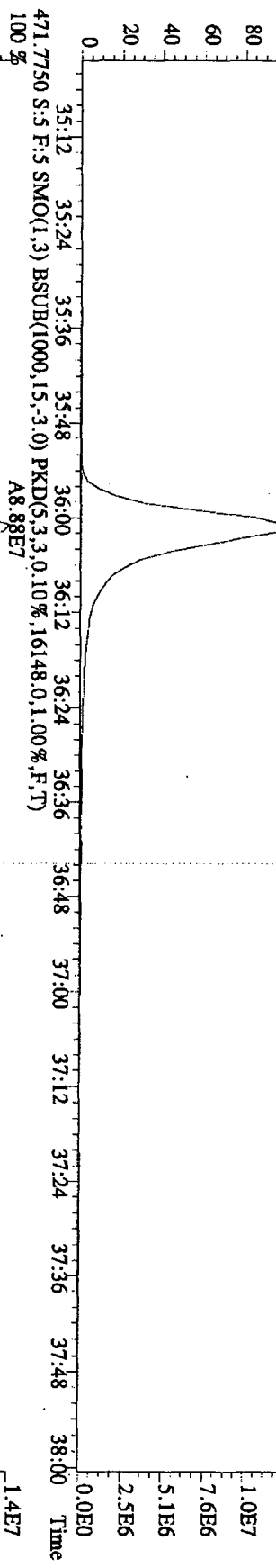
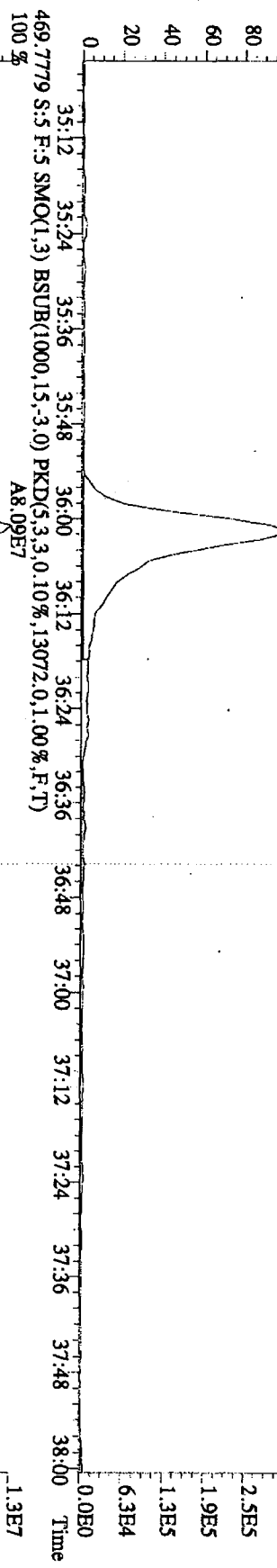
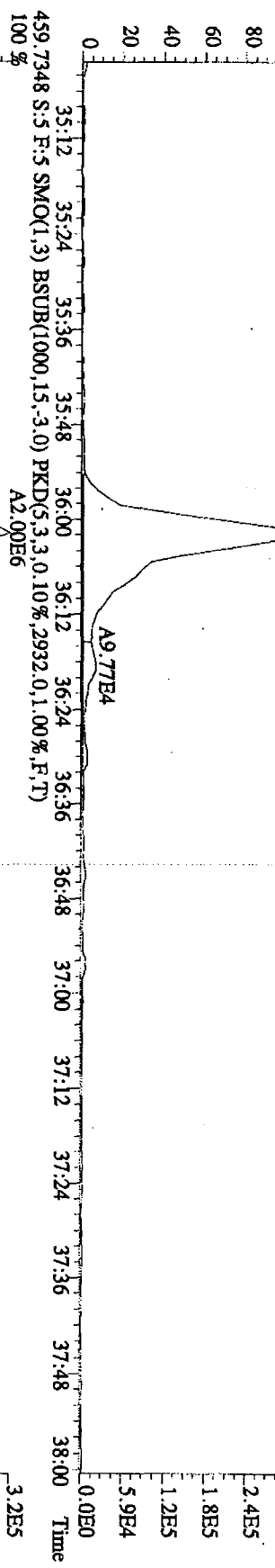
File: 29OCT101D5 #1-203 Acq: 29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1029C :CSI 10DXN503 Exp: DIOXINRES
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,3.944,0,1.00%,F,T)
 100%



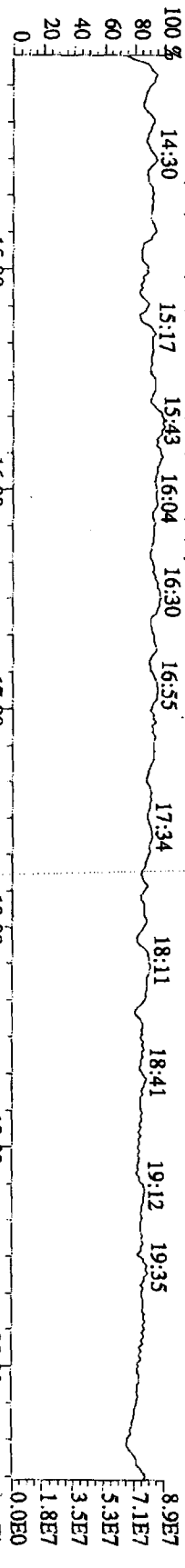
File: 290C101D5 #1-196 Acq: 29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1029C : CSI 10DXN503 Exp: DIOXINRES
 441.7428 S.S.F.: SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,3920,0,1,00%,F,T)
 100% A2.59E6



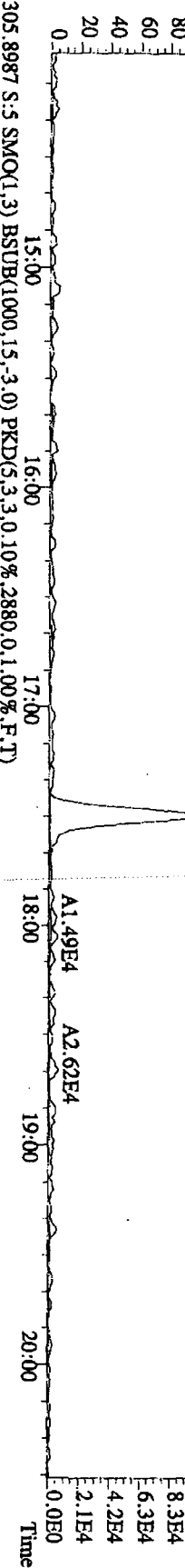
File:290C101D5 #1-196 Acq:29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029C :CSI 10DXN503 Exp:DIOXINRES
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2096,0.1,00%,F,T)
 100% A1.91E6



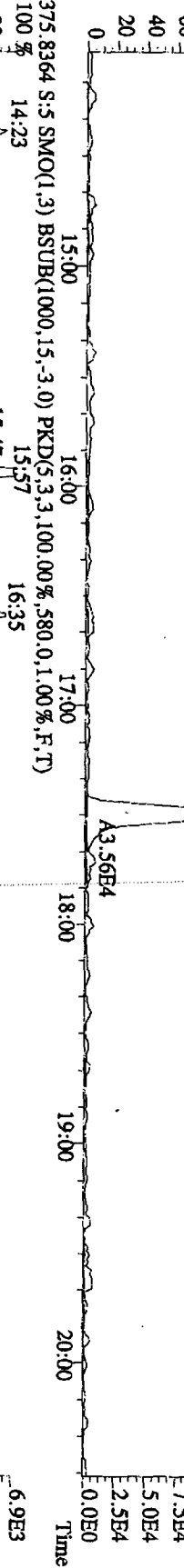
File: 29OC101D5 #1-382 Acq: 29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1029C :CSI 10DXN503 Exp: DIOXINRES
 292.9825 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
 14:30 15:17 15:43 16:04 16:30 16:55 17:34 18:11 18:41 19:12 19:35



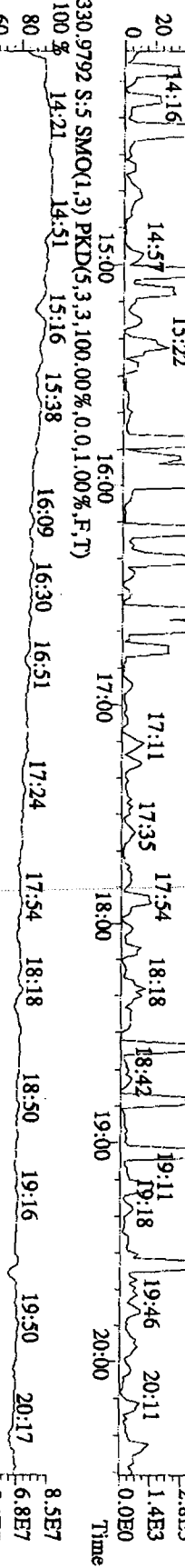
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1764,0.1,0.0%,F,T)
 15:00 16:00 17:00 18:00 19:00 20:00
 1.0E5
 8.3E4
 6.3E4
 4.2E4
 2.1E4
 0.0E0



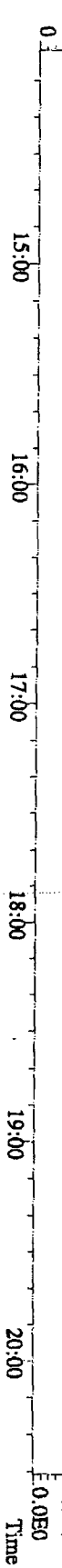
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2880,0.1,0.0%,F,T)
 15:00 16:00 17:00 18:00 19:00 20:00
 1.3E5
 1.0E5
 7.5E4
 5.0E4
 2.5E4
 0.0E0



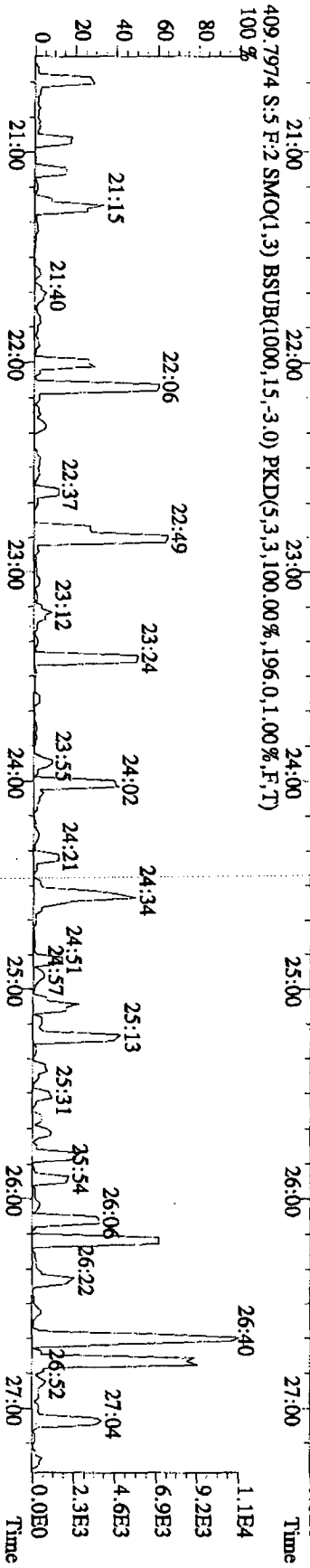
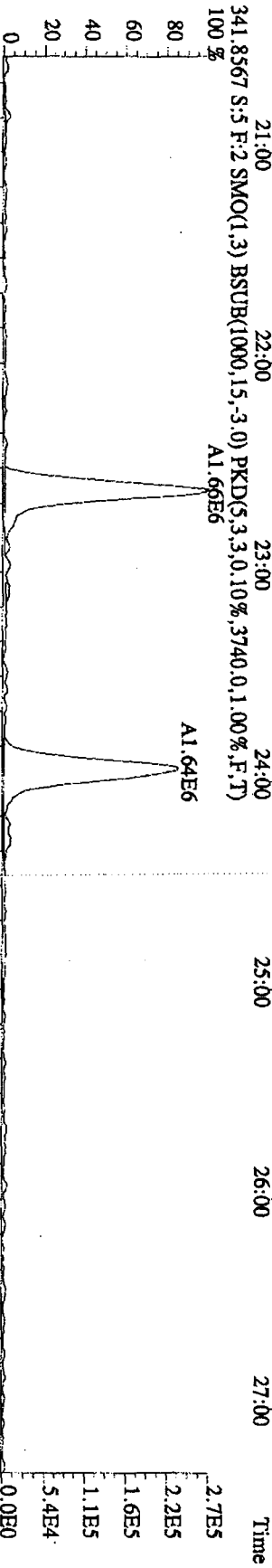
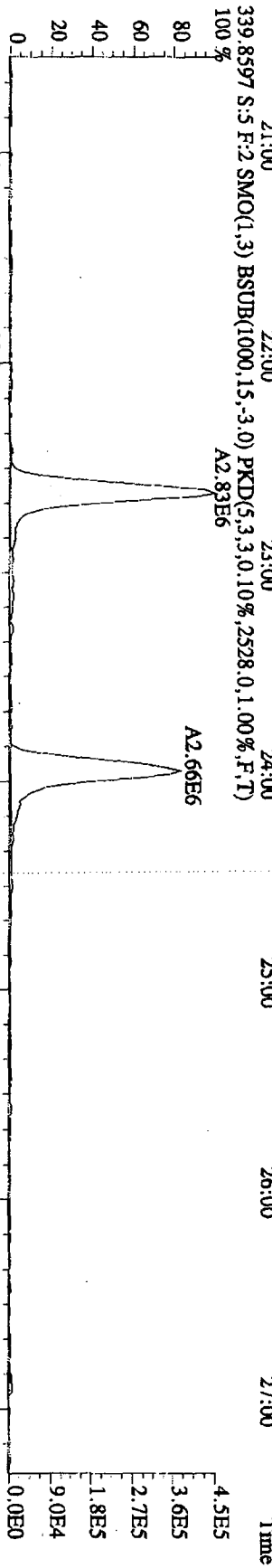
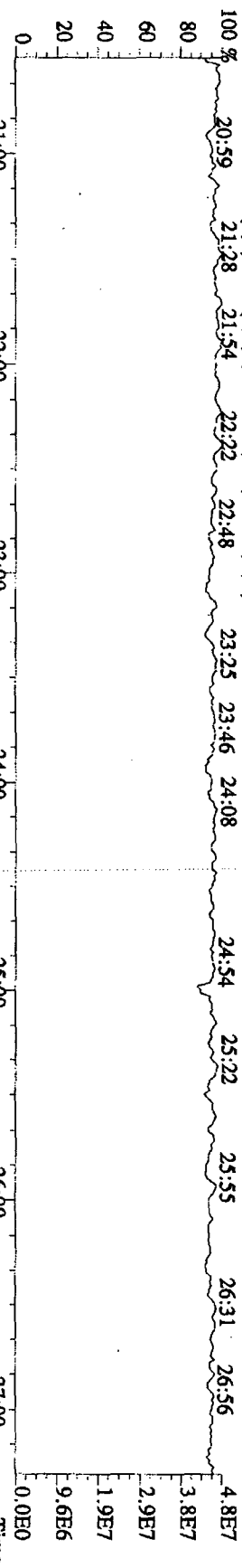
375.8364 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,580,0.1,0.0%,F,T)
 14:23 15:02 15:22 15:47 15:57 16:35 16:40 17:11 17:35 17:54 18:18 18:42 19:03 19:32 19:46 20:11
 6.9E3
 5.5E3
 4.2E3
 2.8E3
 1.4E3
 0.0E0



330.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 14:21 14:51 15:16 15:38 16:09 16:30 16:51 17:24 17:54 18:18 18:50 19:16 19:50 20:17
 8.5E7
 6.8E7
 5.1E7
 3.4E7
 1.7E7
 0.0E0



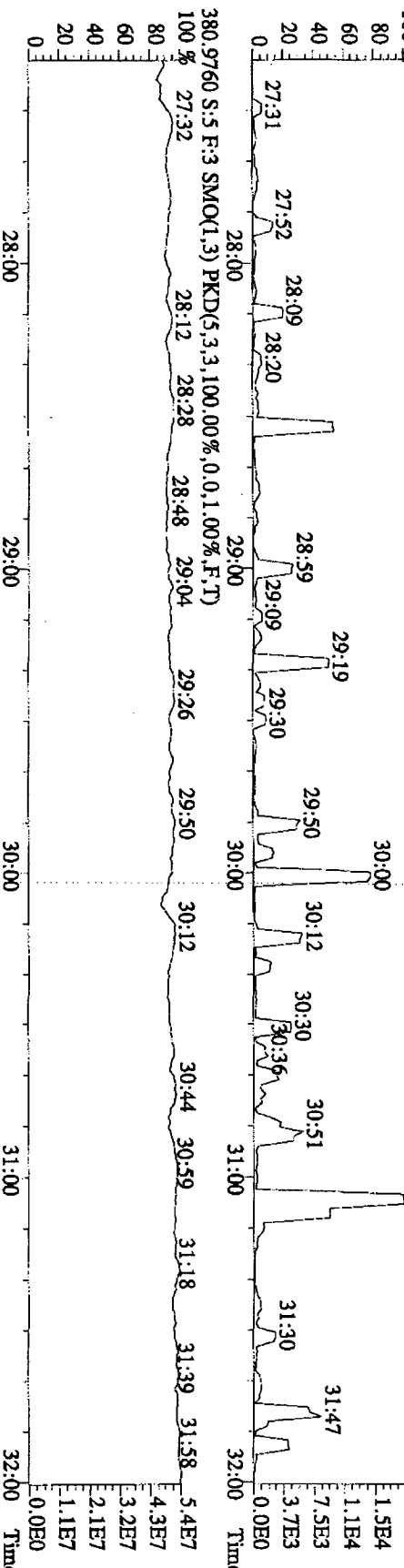
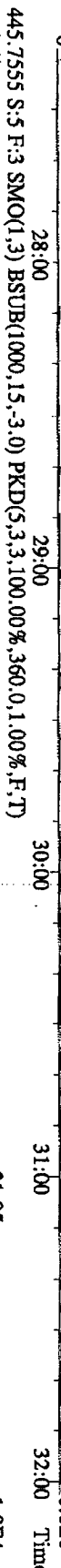
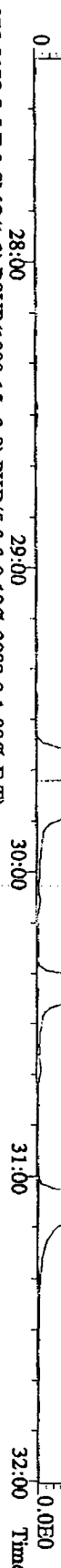
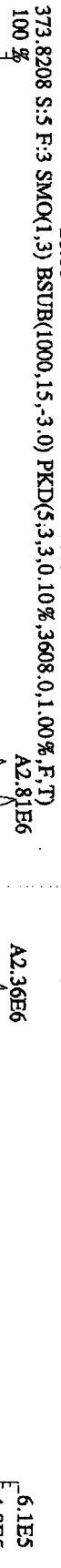
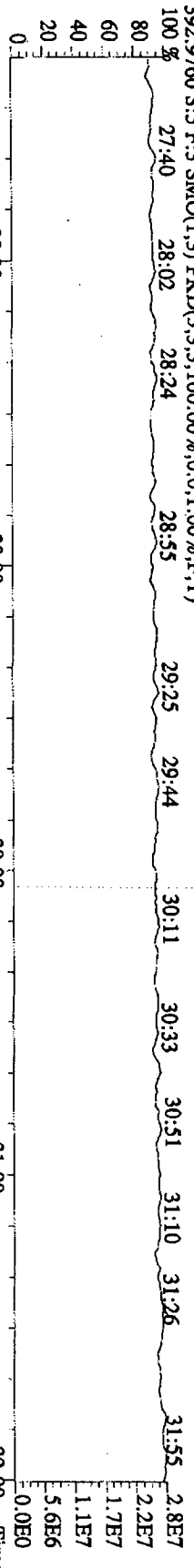
File: 290C101D5 #1-422 Acq: 29-OCT-2010 08:30:20 GC EI+ Voltage S1R 70SE
 Sample# 5 Text: ST1029C :CSI 10DXN503 Exp: DIOXINRES
 342.9792 S: 5 F: 2 SMO(1.3) PKD(5.3, 3.100, 0.0%, 0.0%, F, T)
 100 % 20:59 21:28 21:54 22:22 22:48 23:25 23:46 24:08 24:54 25:22 25:55 26:31 26:56



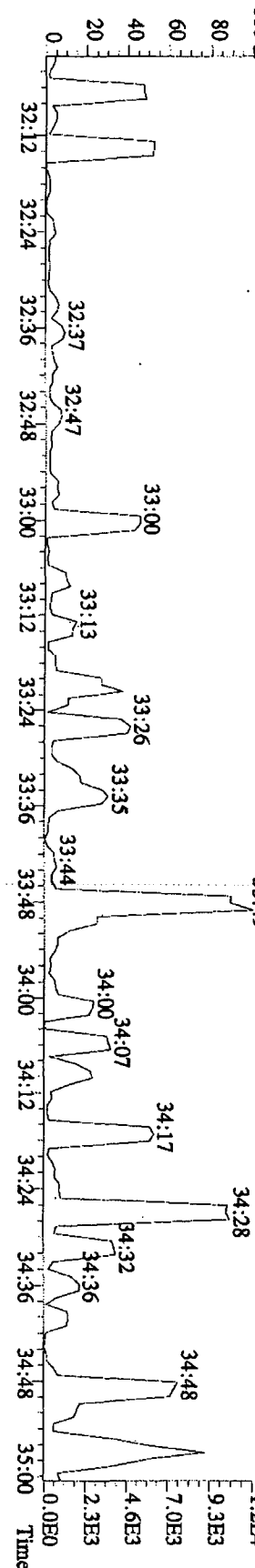
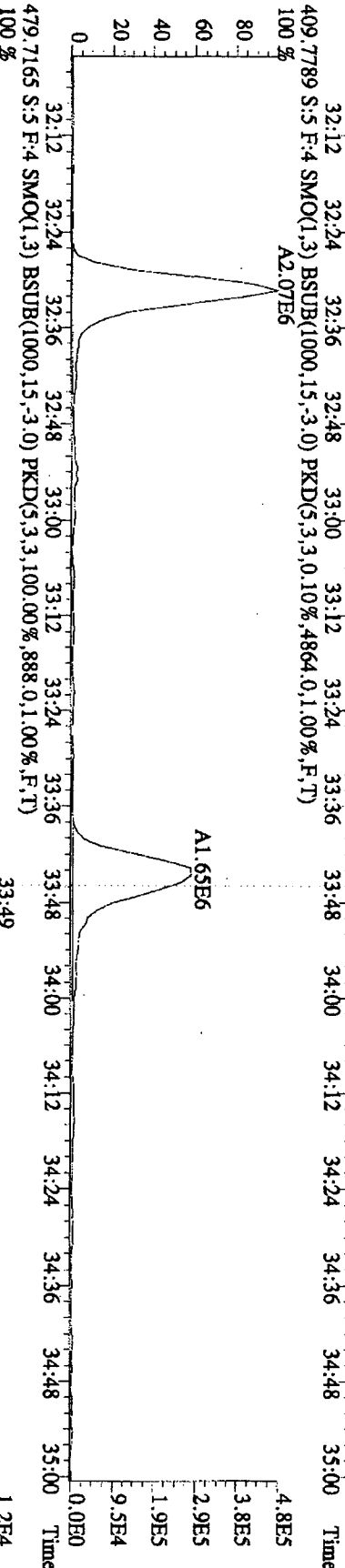
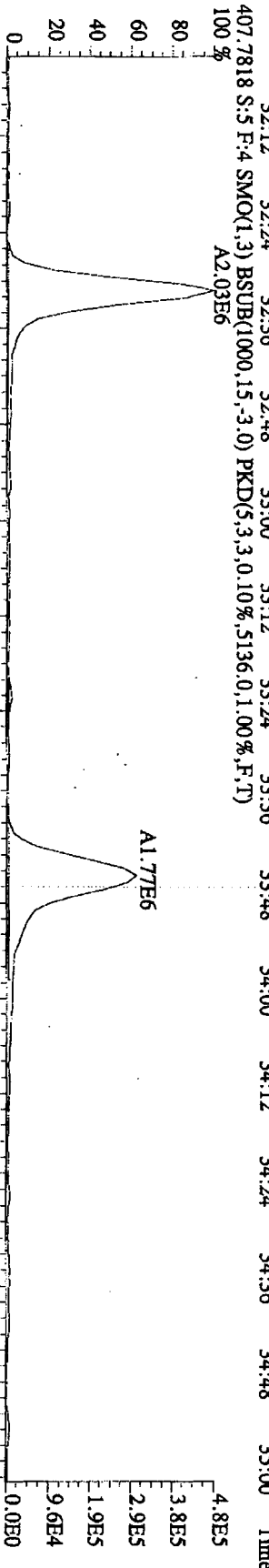
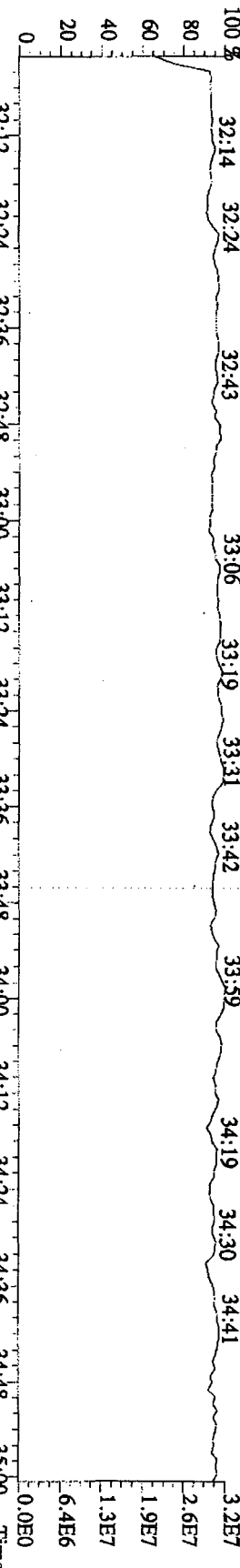
File: 290C101D5 #1-301 Acq: 29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE

Sample#5 Text: ST1029C : CSI 10DXN503 Exp: DIOXINRES

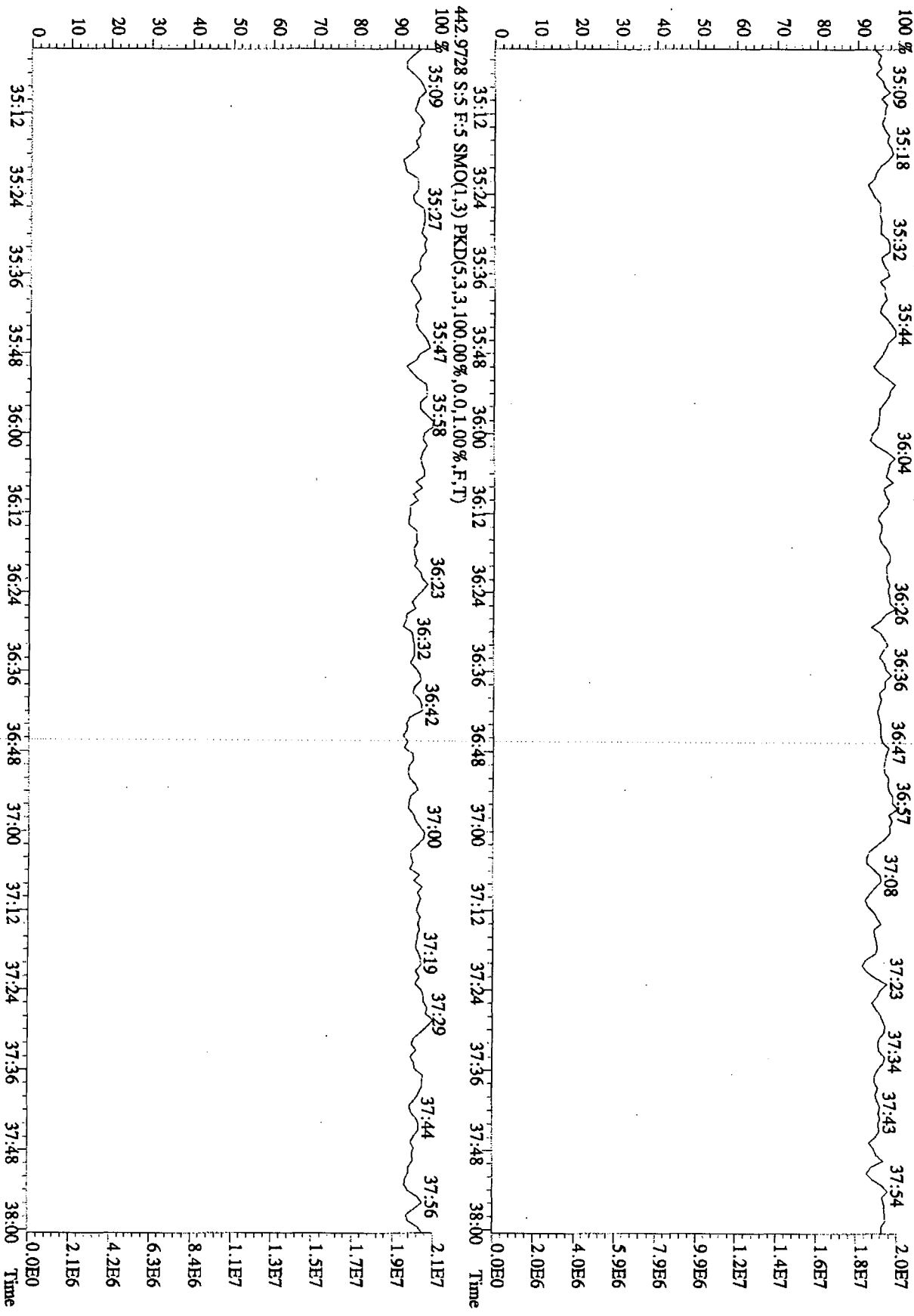
392.9760 S:5 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



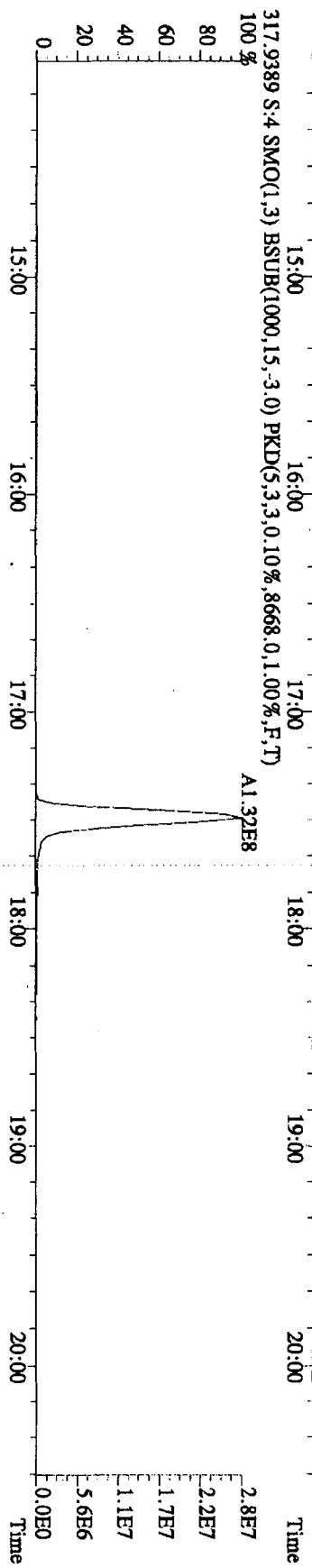
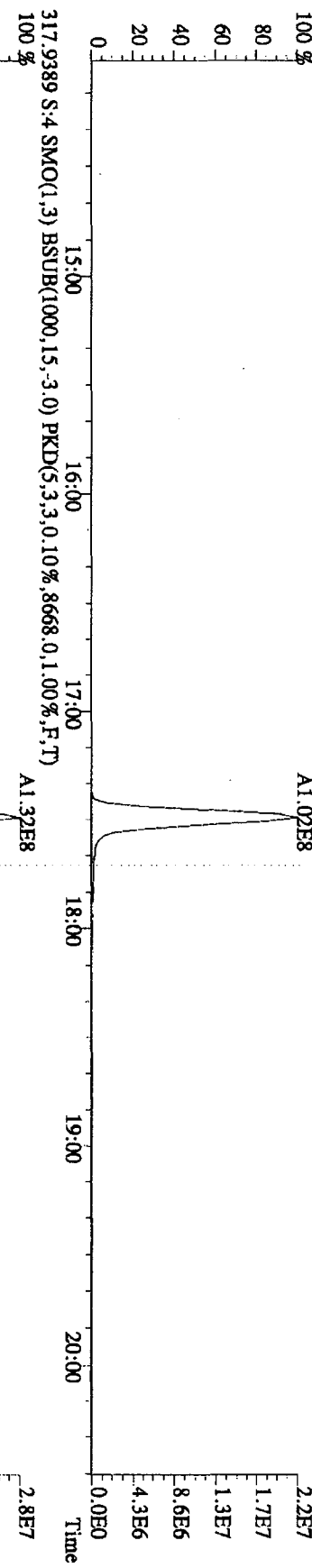
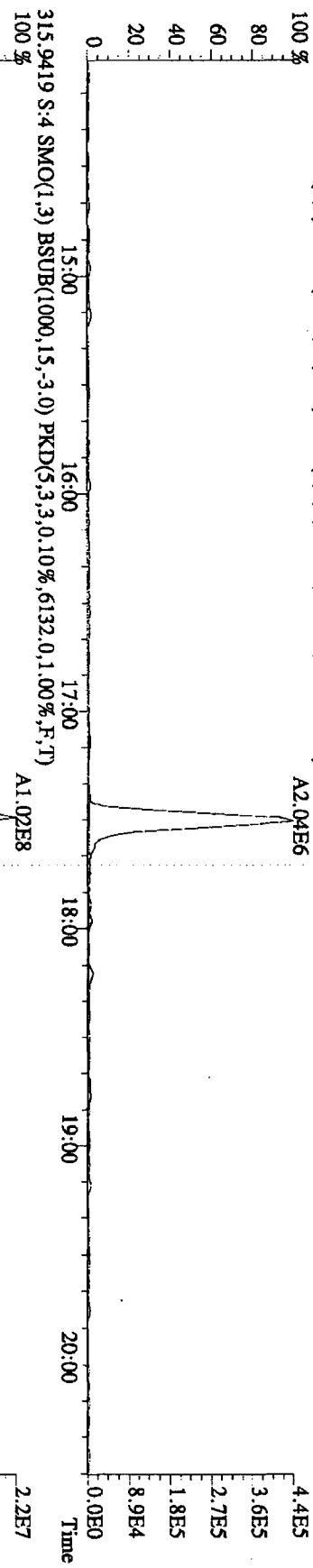
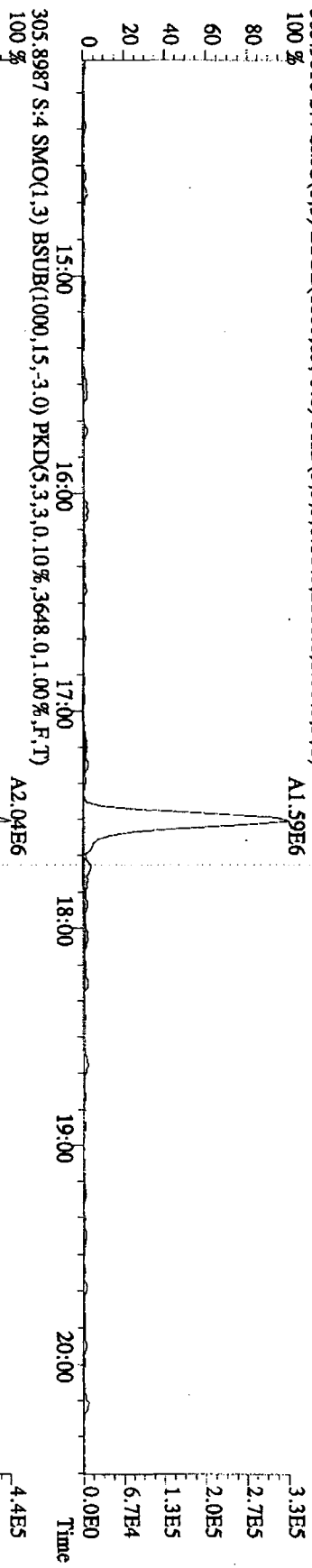
File:29OC101D5 #1-203 Acq:29-OCT-2010 08:30:20 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029C :CSI 10DXN503 Exp:DIOXINRES



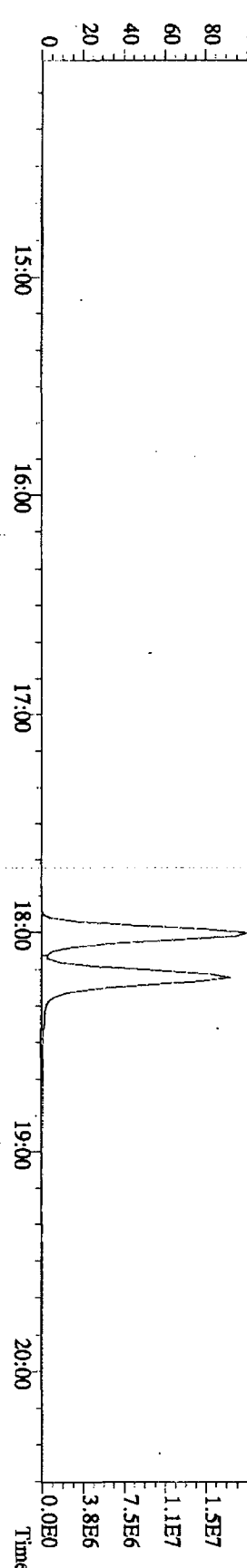
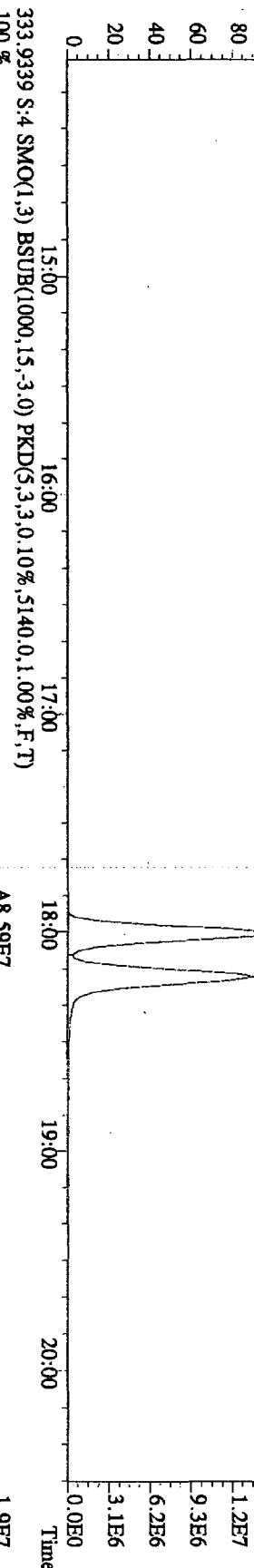
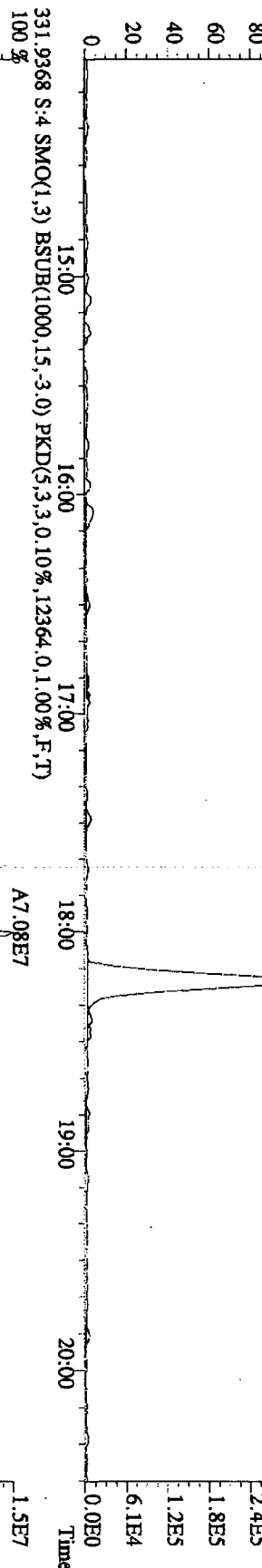
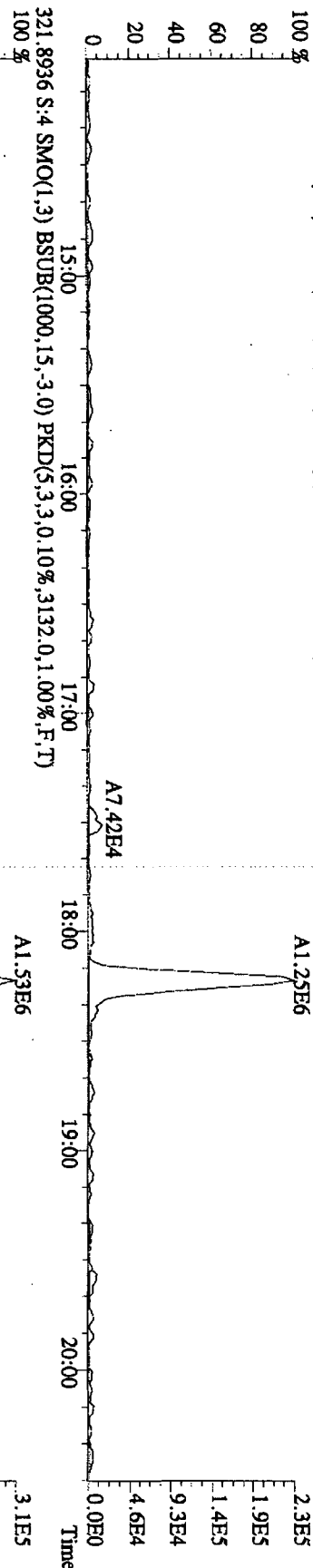
File: 29OCT10ID5 #1-196 Acq: 29-OCT-2010 08:30:20 GC EI + Voltage SIR 70SE
 Sample#5 Text: ST1029C :CSI 10DXN503 Exp: DIOXINRES
 454.9728 S:5 F:5 SMO(1.3) PKD(5.3,3.100,0.0%,0.0,1.00%,F,T)
 100% 35:09 35:18 35:32 35:44 36:04



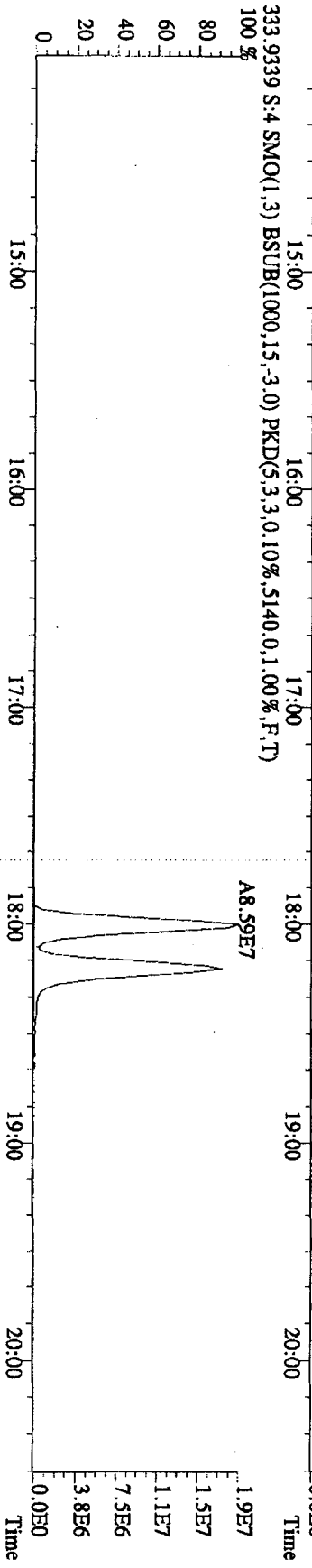
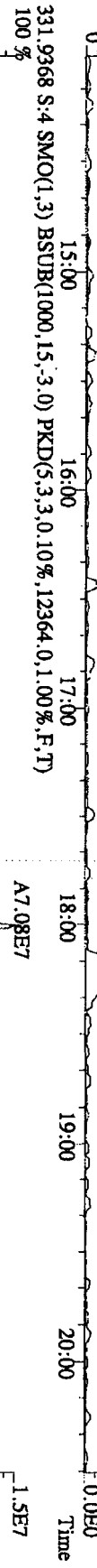
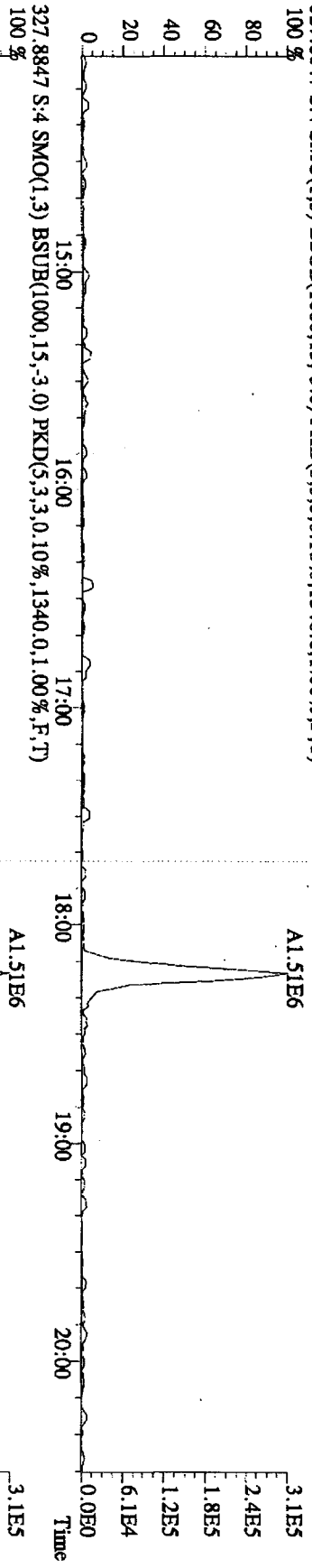
File:290C101D5 #1-382 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DXNS04 Exp:DIOXINRES
 303.9016 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160,0.1,0.00%,F,T) 100 %



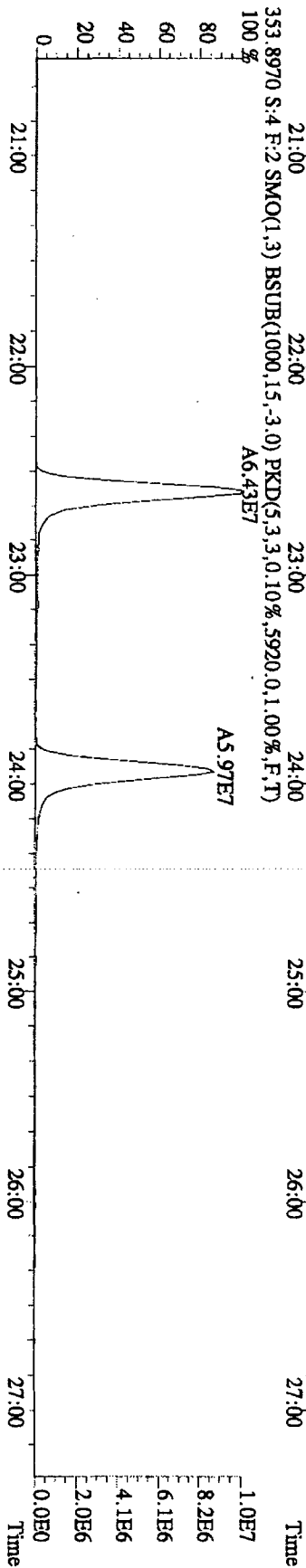
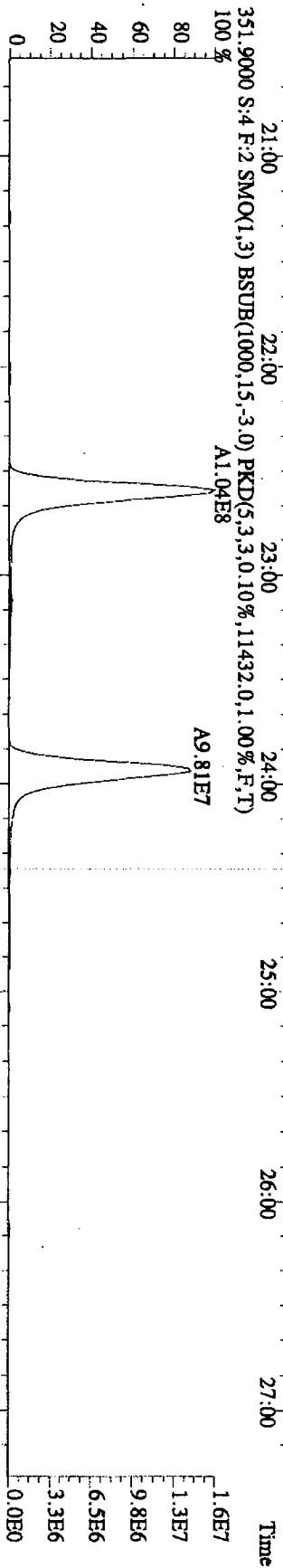
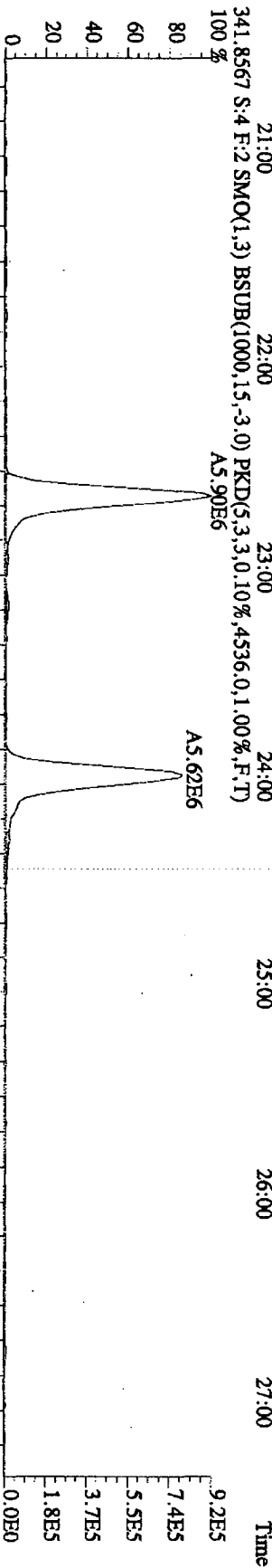
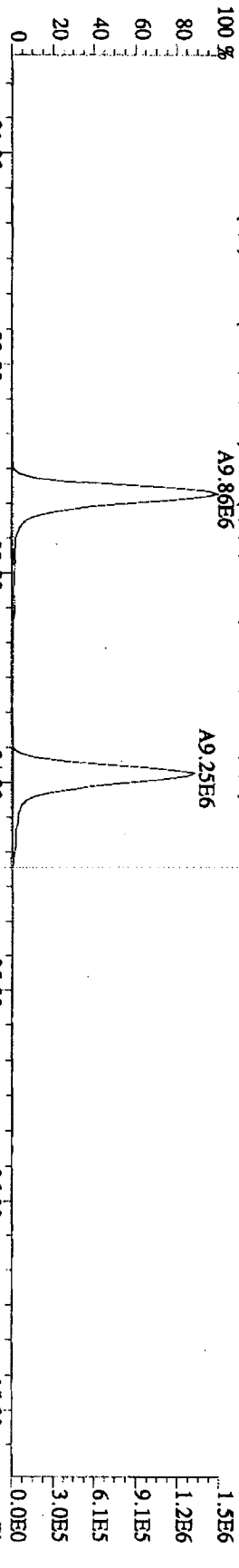
File:290C101D5 #1-382 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DDXN504 Exp:DIOXINRES
 319 8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2568,0,1,00%,F,T)
 100 %



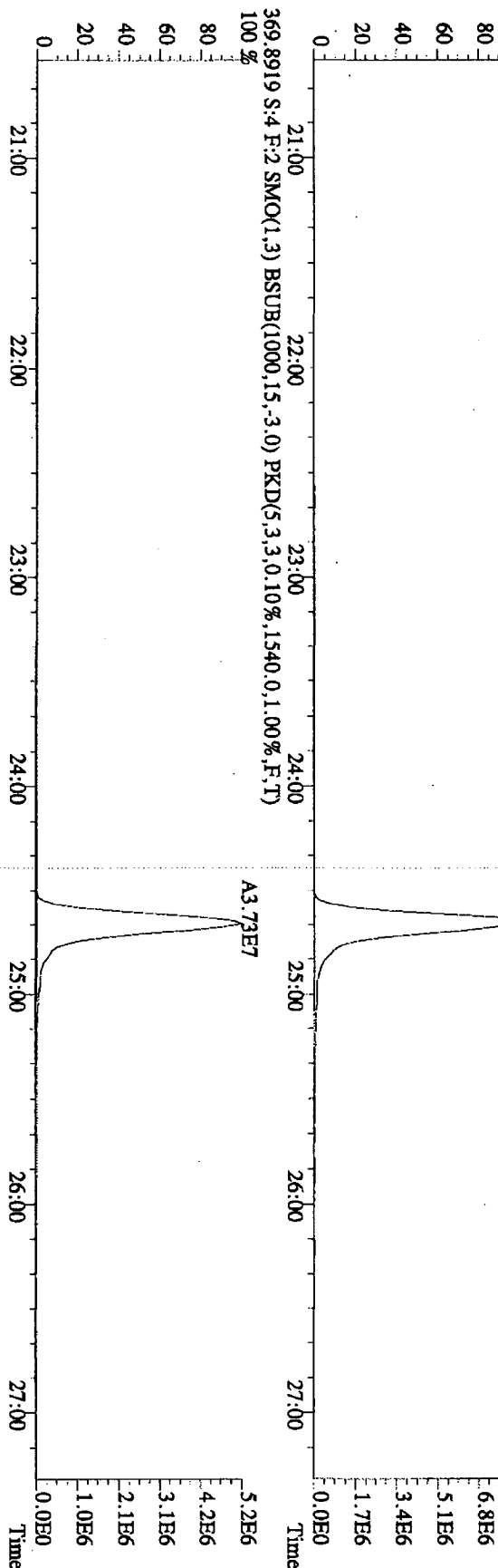
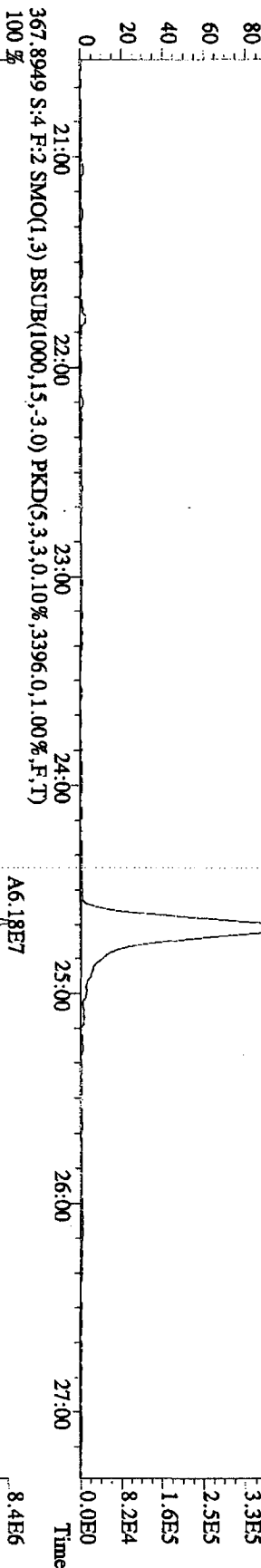
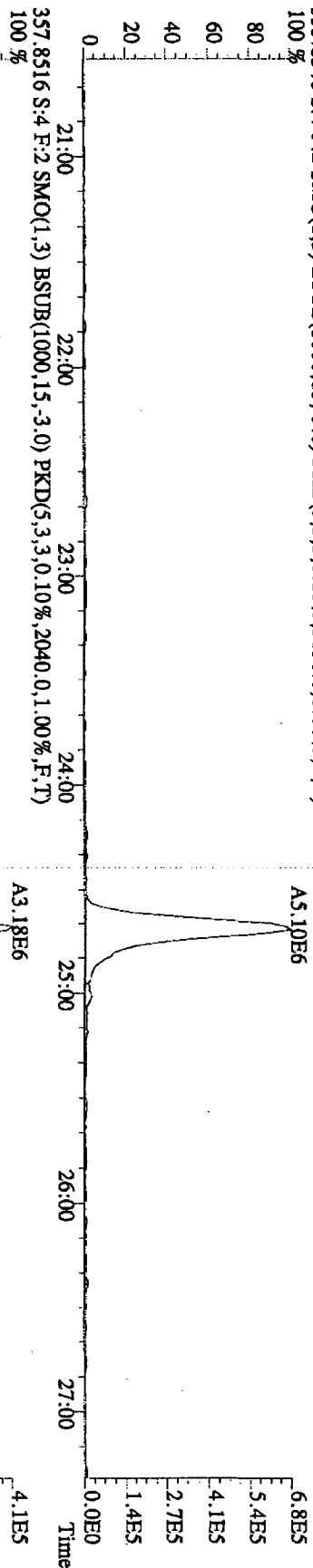
File: 290C101D5 #1-382 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1029B : CS2 10DXN504 Exp: DIOXINRES
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340,0.1,0.00%,F,T)



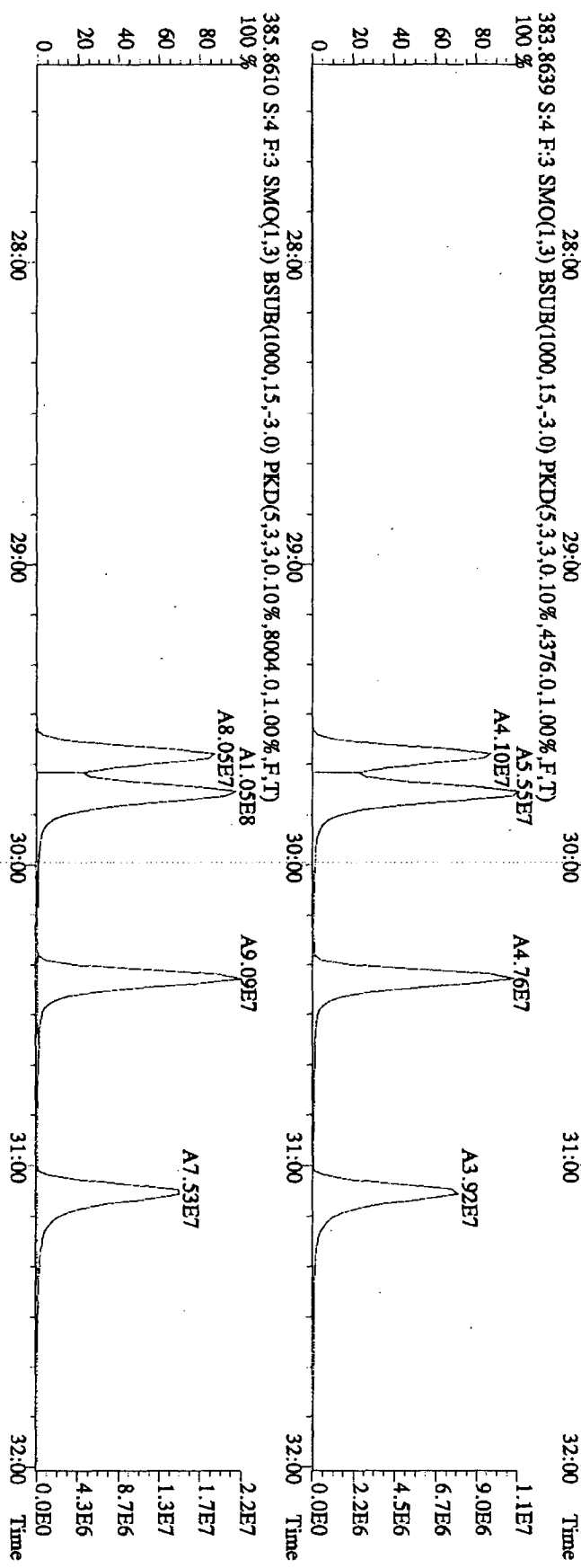
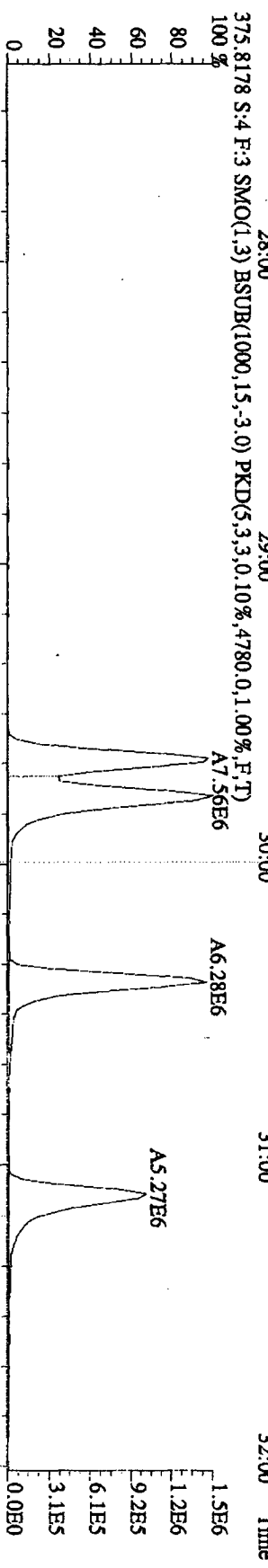
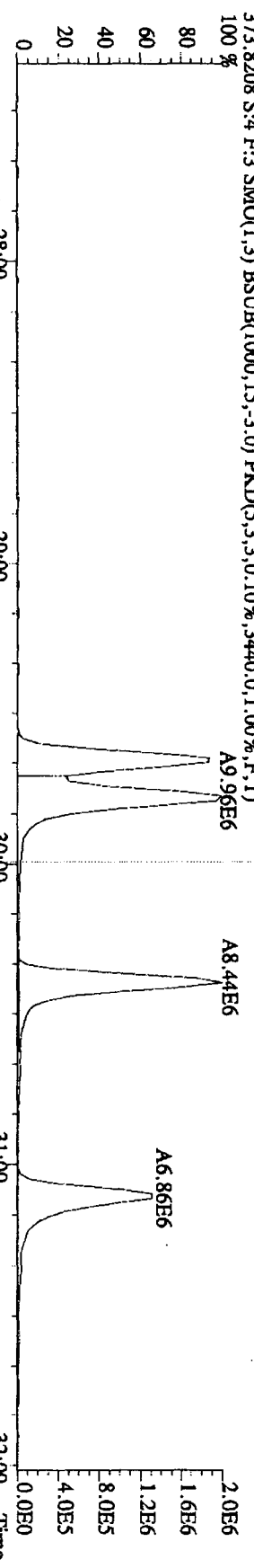
File: 290C101D5 #1-423 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1029B :CS2 10DXN504 Exp: DIOXINRES
 339.8597 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)
 100%



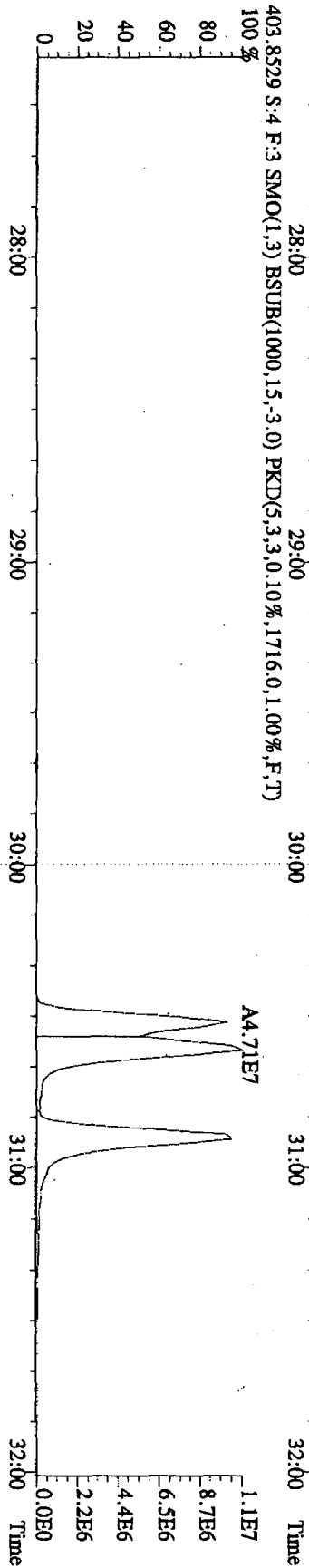
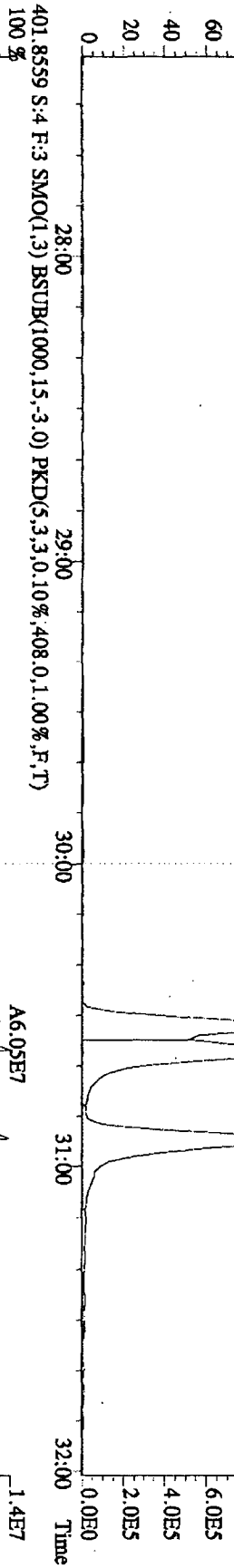
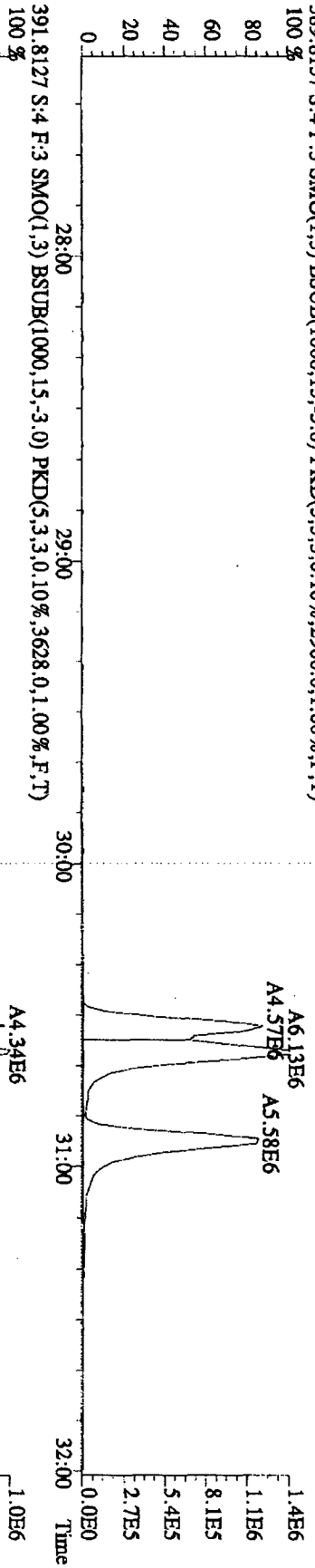
File: 29OC101D5 #1-423 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage: SIR 70SE
 Sample#4 Text: ST1029B :CS2 10DXN504 Exp: DIOXINRES
 355.8546 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3656,0,1,00%,F,T)
 100%



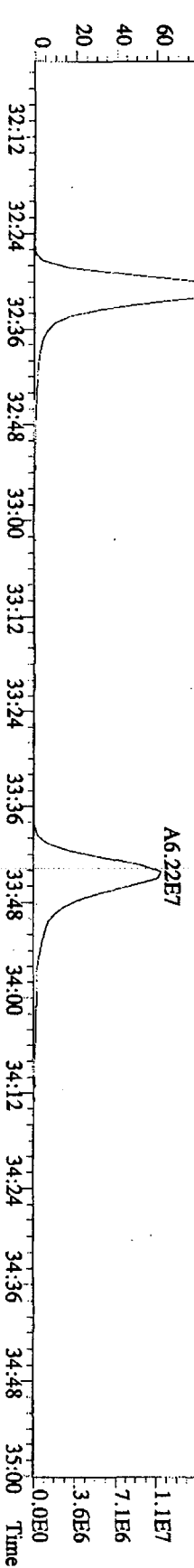
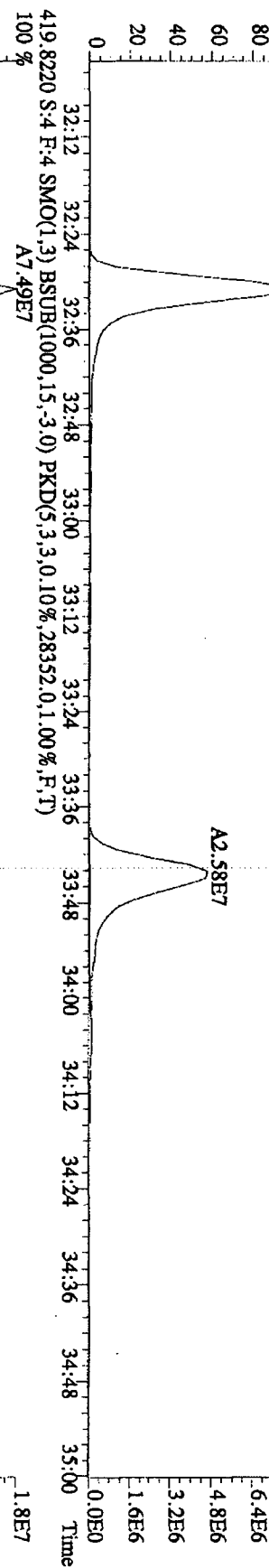
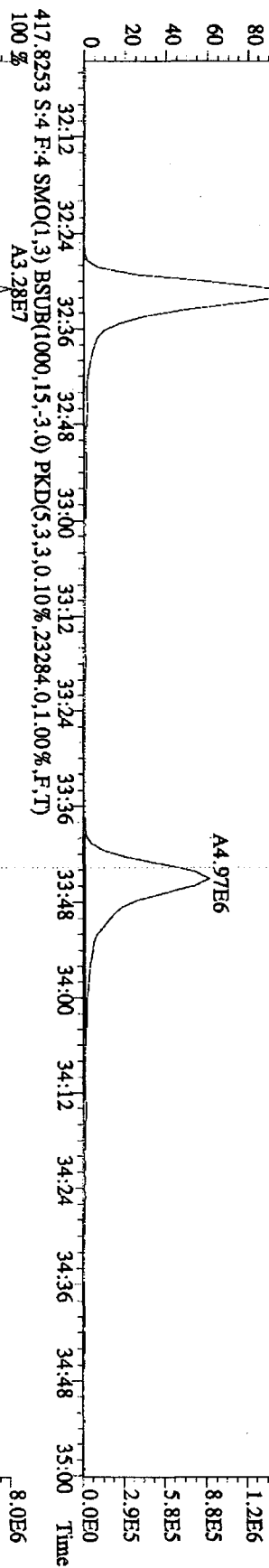
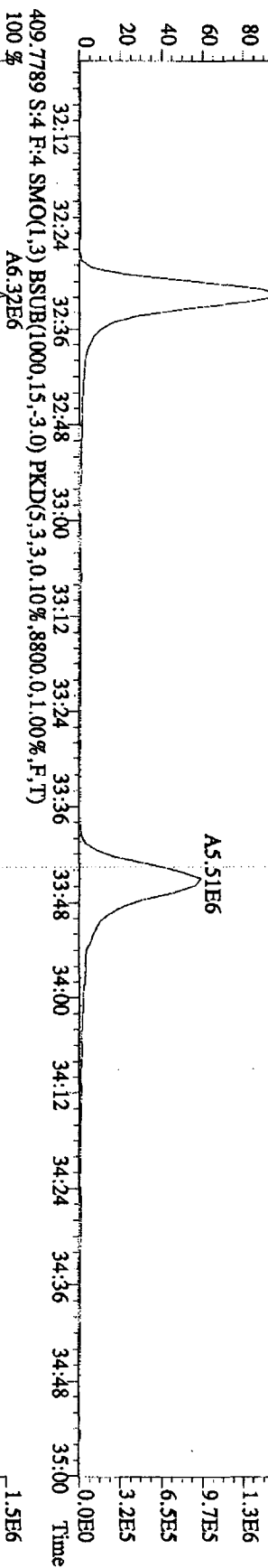
File:29OC101ID5 #1-301 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DXNS04 Exp:DIOXINRES



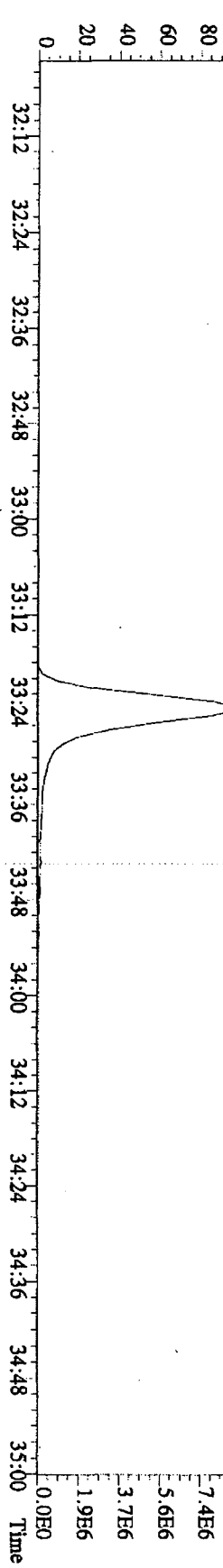
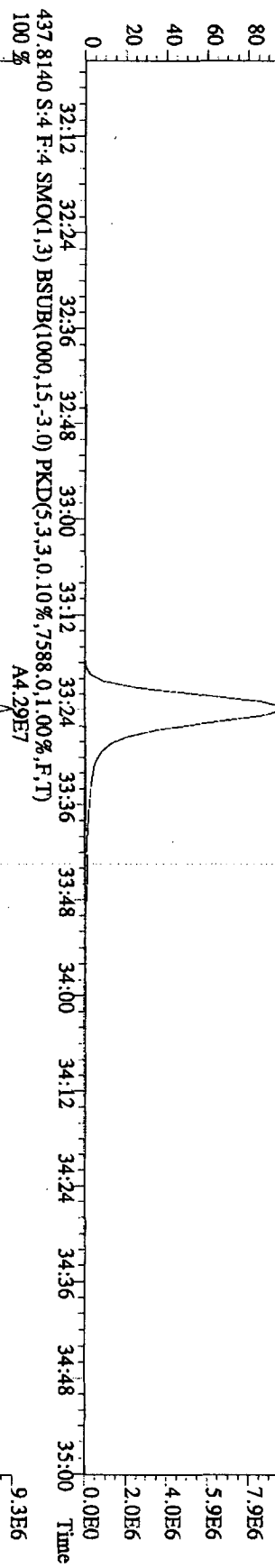
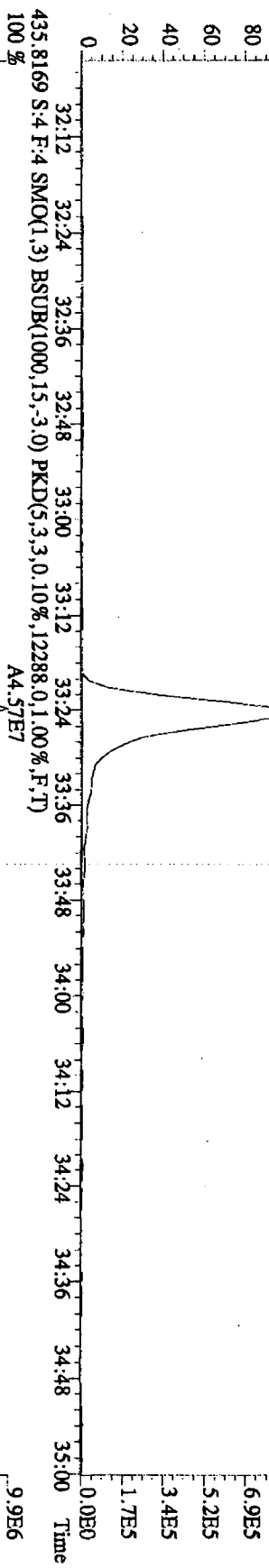
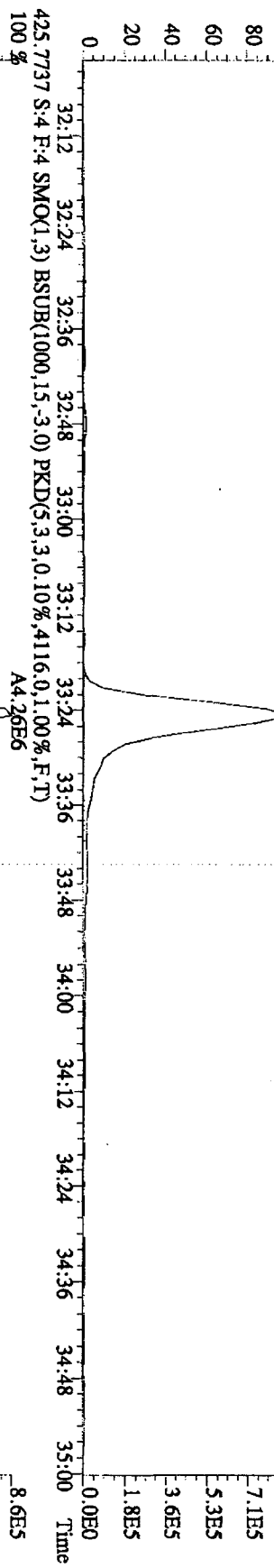
File:29OC101D5 #1-301 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2.10DXNS04 Exp:DIOXINRES
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2900,0,1,00%,F,T)



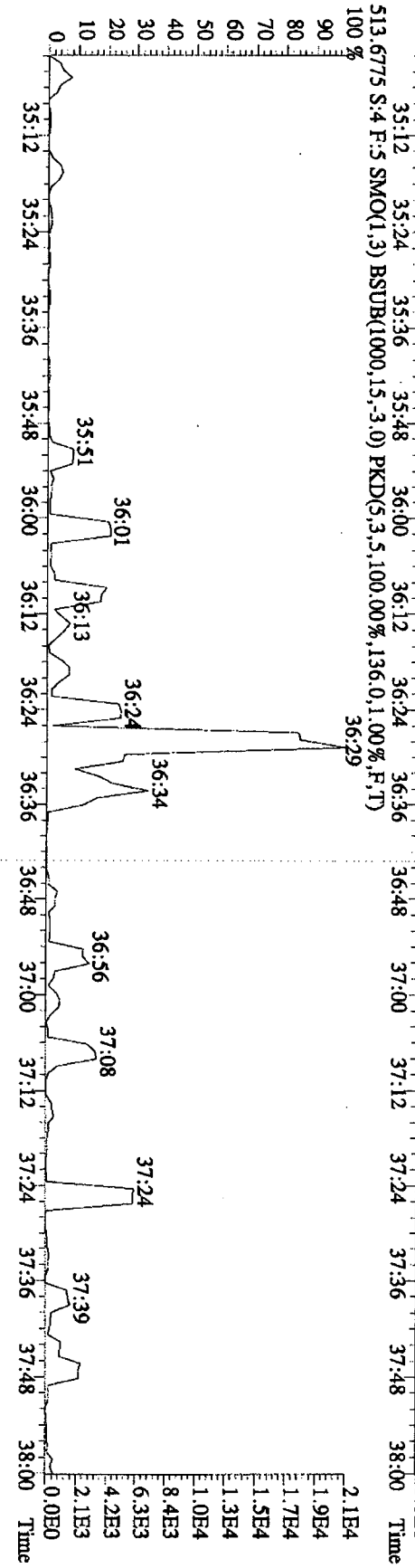
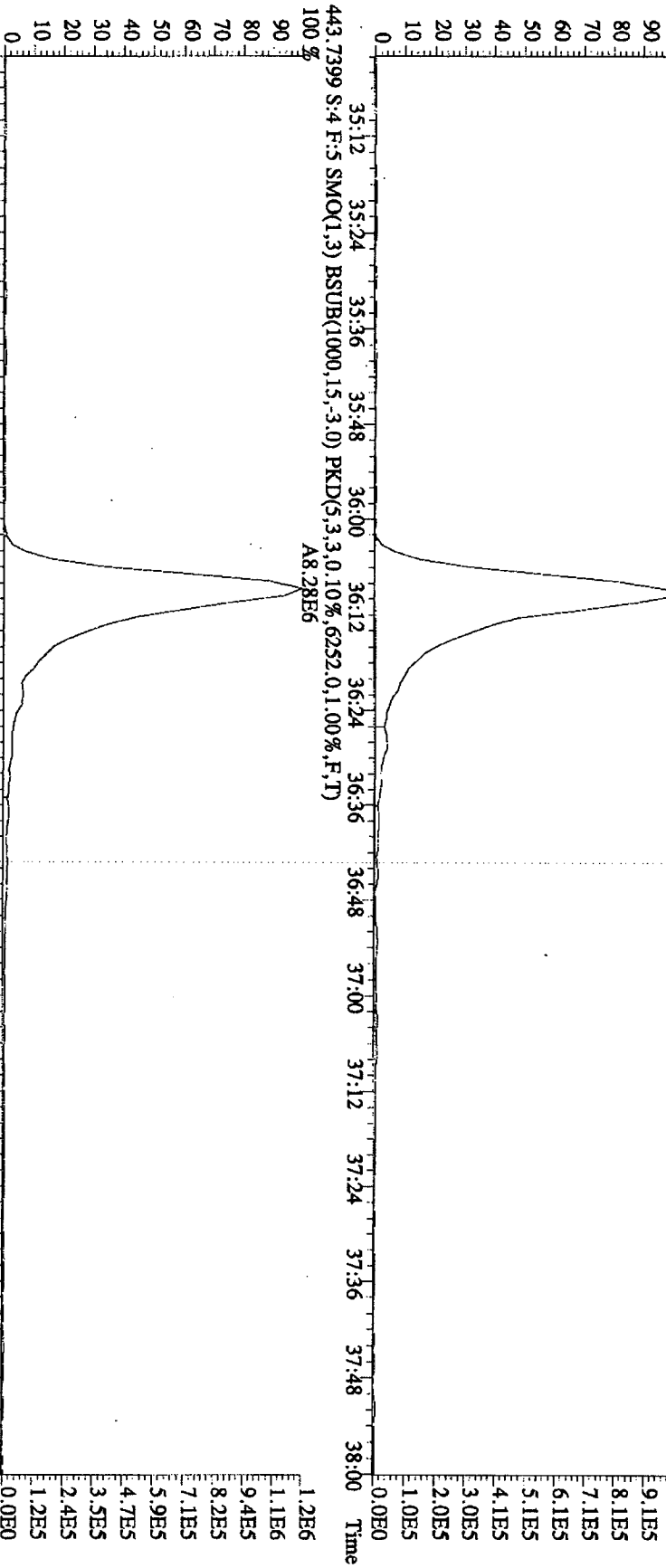
File:29OCT101D5 #1-202 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DXN504 Exp:DIOXINRES
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6120,0,1,00%,F,T)
 100 % A6,91E6



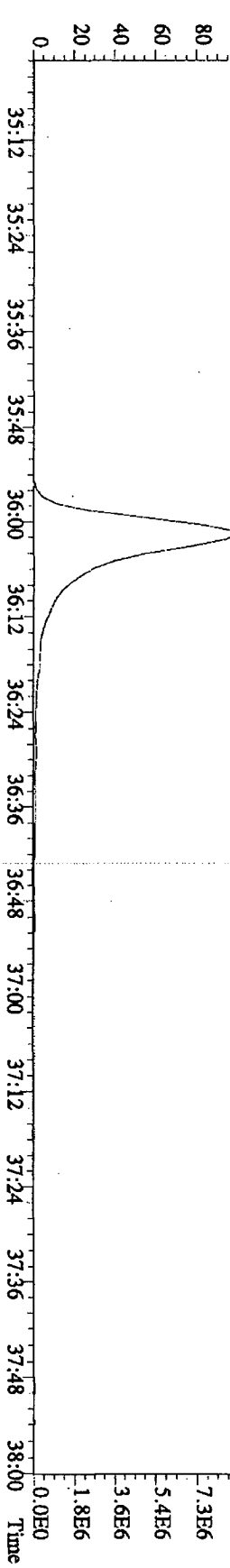
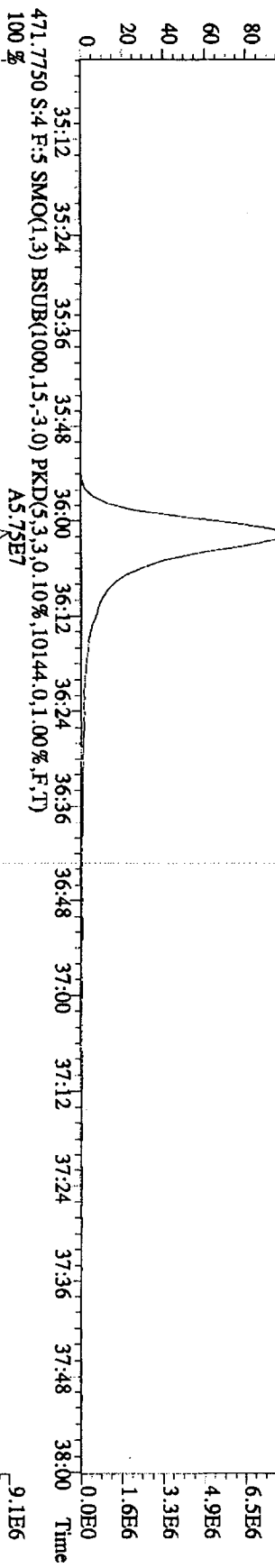
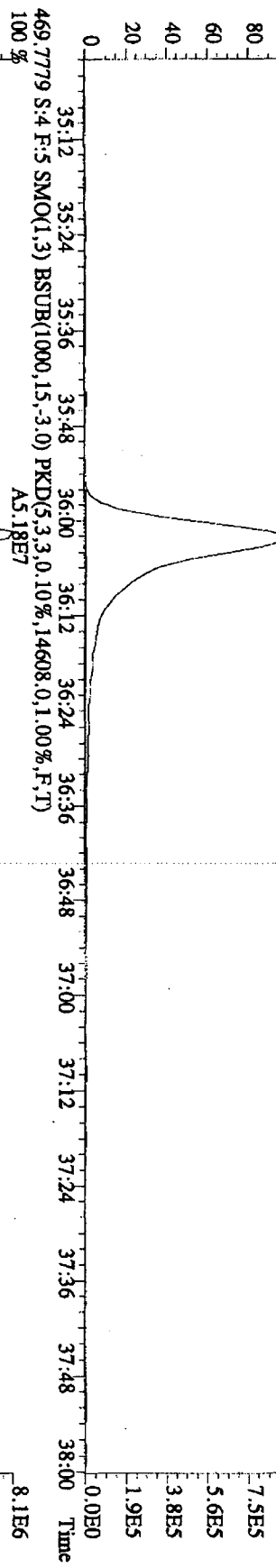
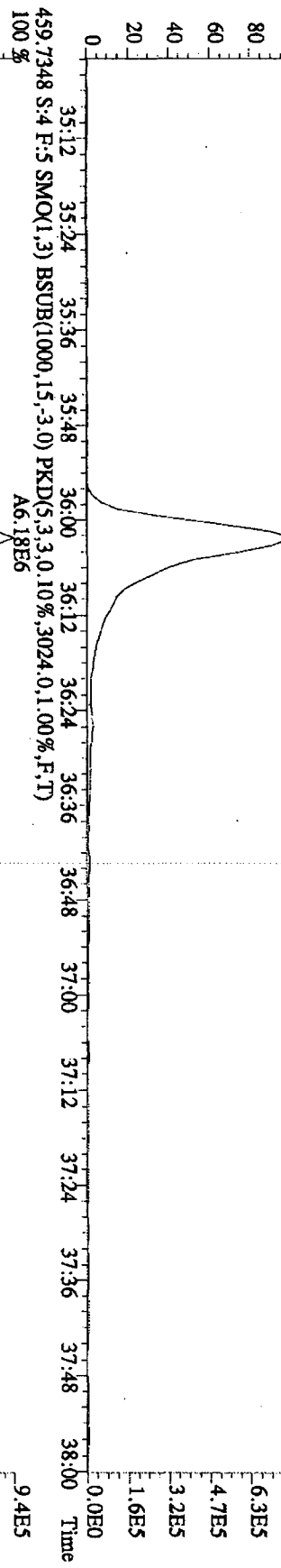
File: 290C101D5 #1-202 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1029B :CS2 10DXN504 Exp: DIOXINRES
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4880,0,1,00%,F,T)
 100 % A4.29E6



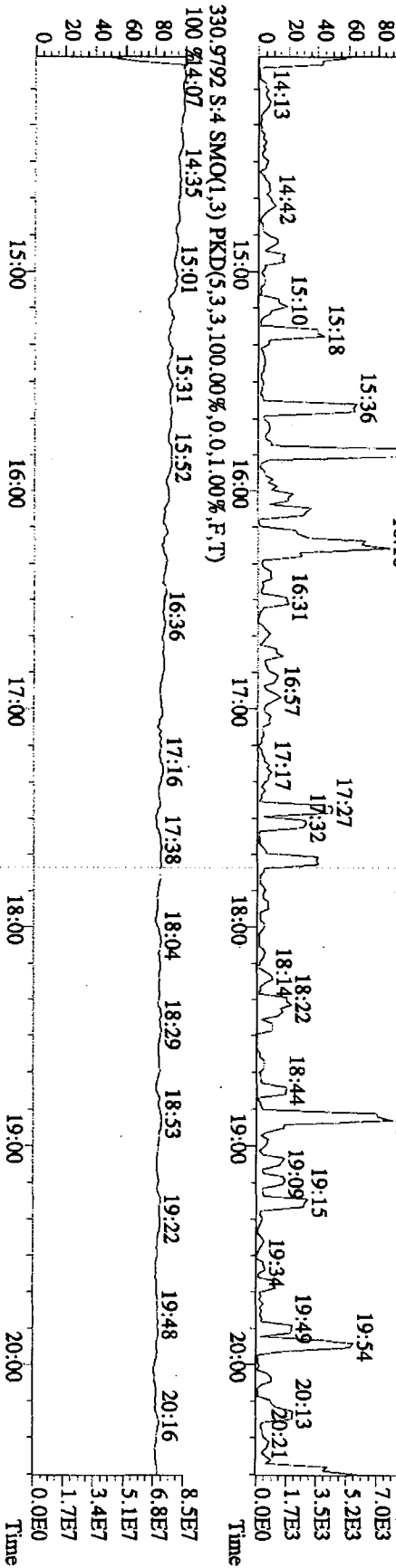
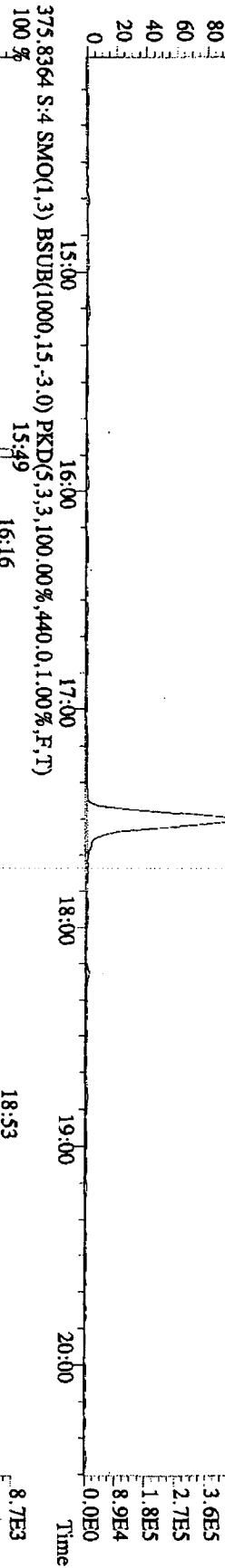
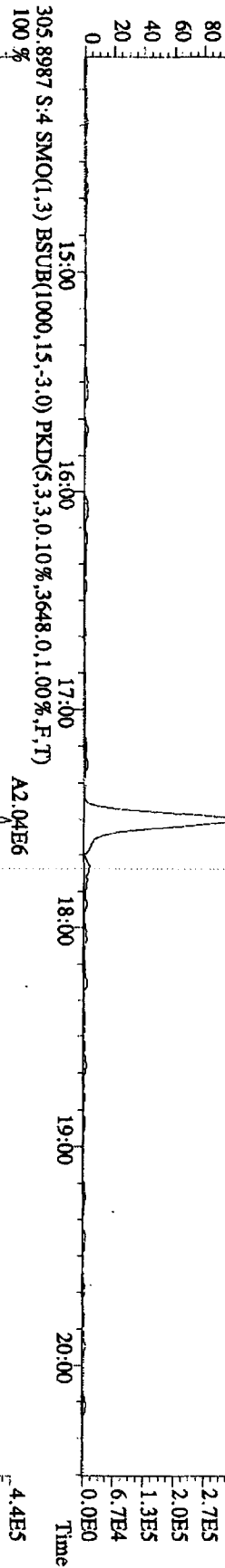
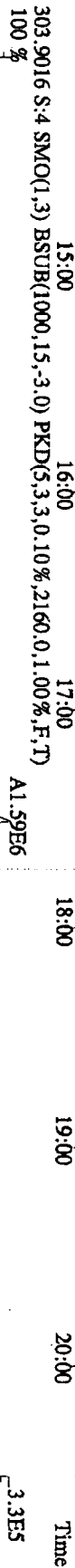
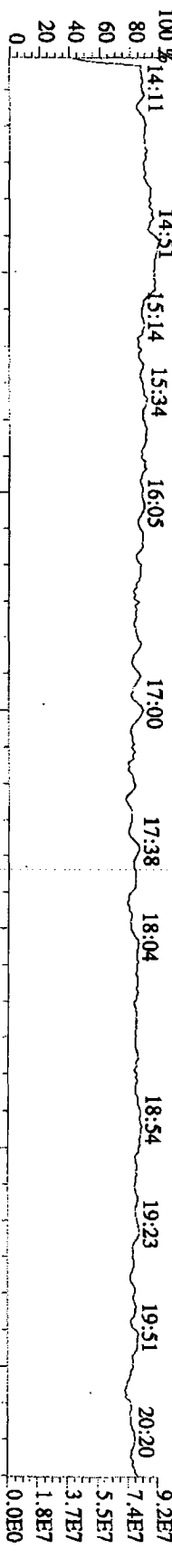
File:290C101D5 #1-196 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DXNS04 Exp:DIOXINES
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4444,0,1,00%,F,T)
 100% A7.26E6



File:290C101D5 #1-196 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DDXN504 Exp:DIOXINRES
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2588,0,1.00%,F,T)
 100 % A5.23E6



File: 29OCT101D5 #1-382 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1029B :CS2 10DXNS04 Exp.: DIOXINRES
 292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

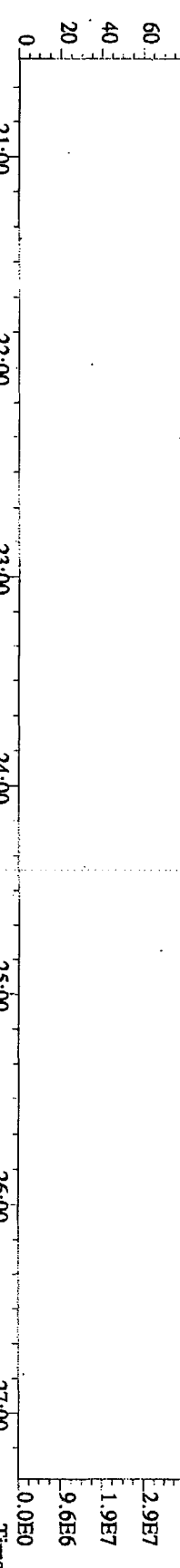


File:290C101D5 #1.423 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE

Sample#4 Text:ST1029B :CS2 10DXNS04 Exp:DIOXINRES

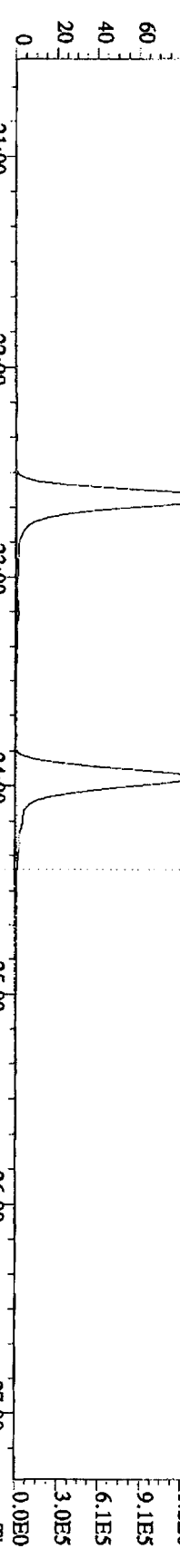
342.9792 S:4 F:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)

100 % 21:04 21:51 22:12 22:36 22:59 23:20 23:47 24:11



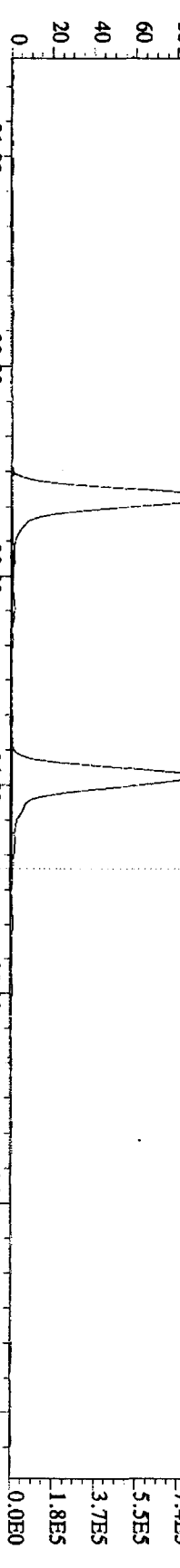
339.8597 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,3324,0,1,00%,F,T)

100 % A9.86E6 A9.25E6



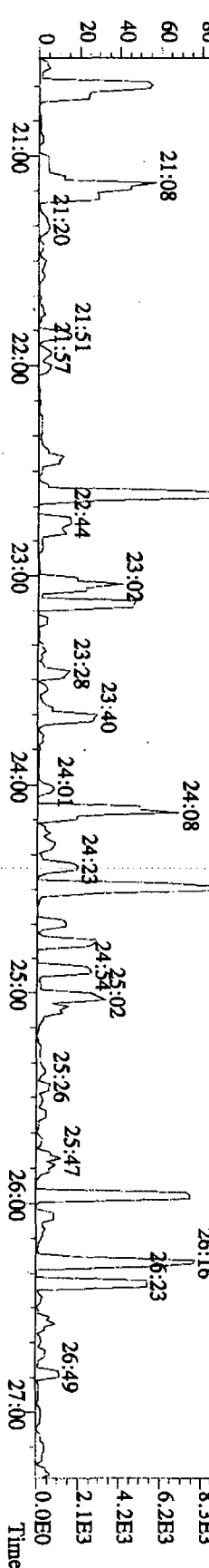
341.8567 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4536,0,1,00%,F,T)

100 % A5.90E6 A5.62E6



409.7974 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,156,0,1,00%,F,T)

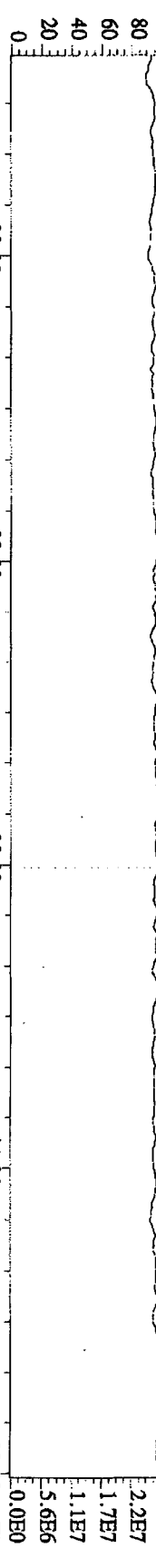
100 % 21:08 21:20 21:51 21:57 22:44 23:02 23:28 23:40 24:01 24:08 24:23 24:30 24:34 25:02 25:26 25:47 26:16 26:23 26:49



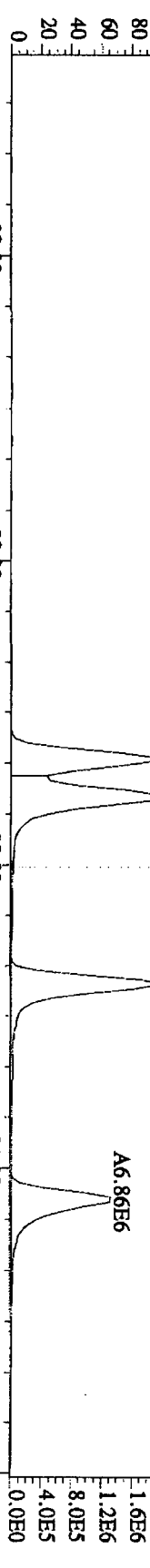
File:29OC101D5 #1-301 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE

Sample#4 Text:ST1029B :CS2 IODXN504 Exp:DIOXINRES

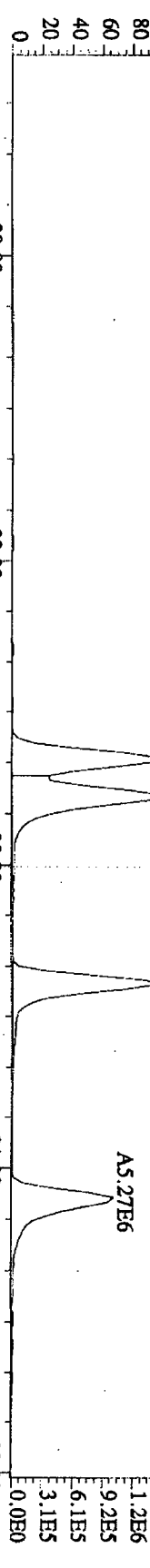
392.9760 S:4 F:3 SMO(1.3) PKD(5,3,3,100,00%,0.0,1.00%,F,T) 28:06 28:33 28:57 29:12 29:27 29:49 30:09 30:25 30:40 31:03 31:21 31:36 31:51



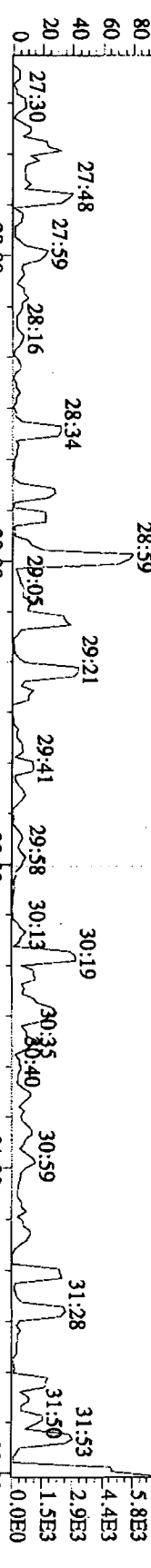
373.8208 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3440,0.1,00%,F,T) 28:00 29:00 30:00 31:00 32:00



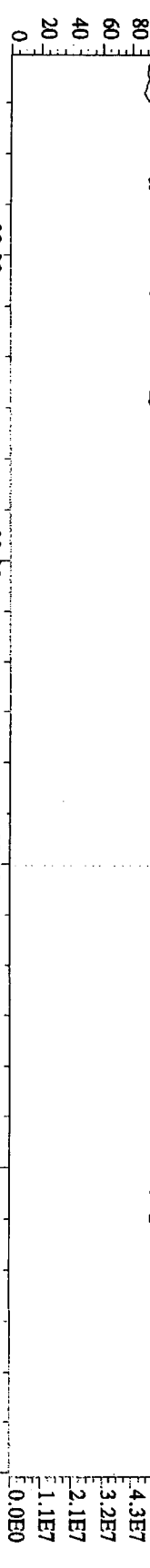
375.8178 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4780,0.1,00%,F,T) 28:00 29:00 30:00 31:00 32:00



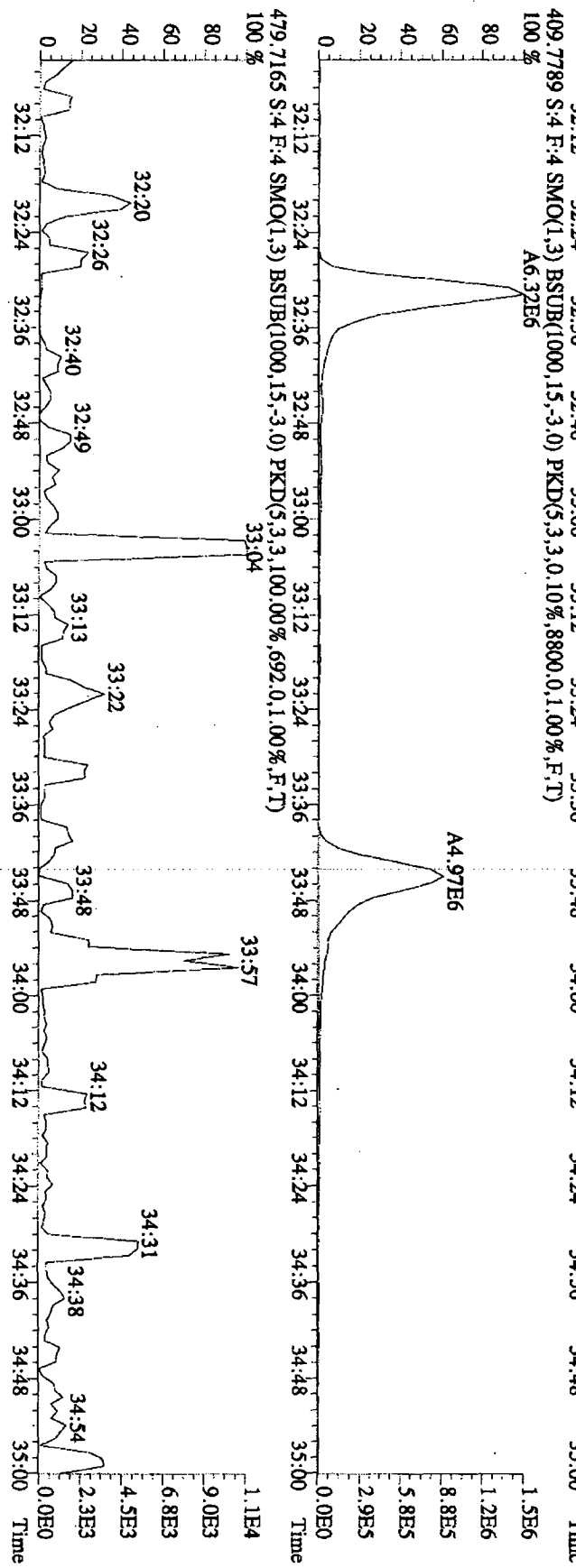
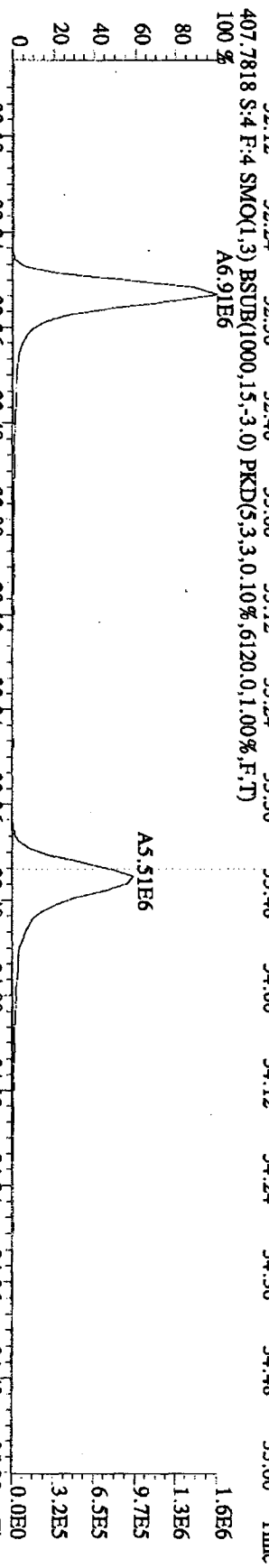
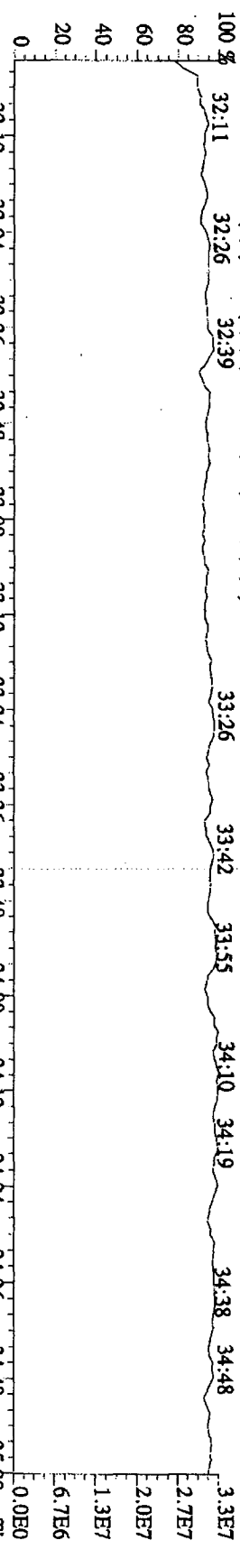
445.7555 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100,00%,656,0.1,00%,F,T) 28:00 29:00 30:00 31:00 32:00



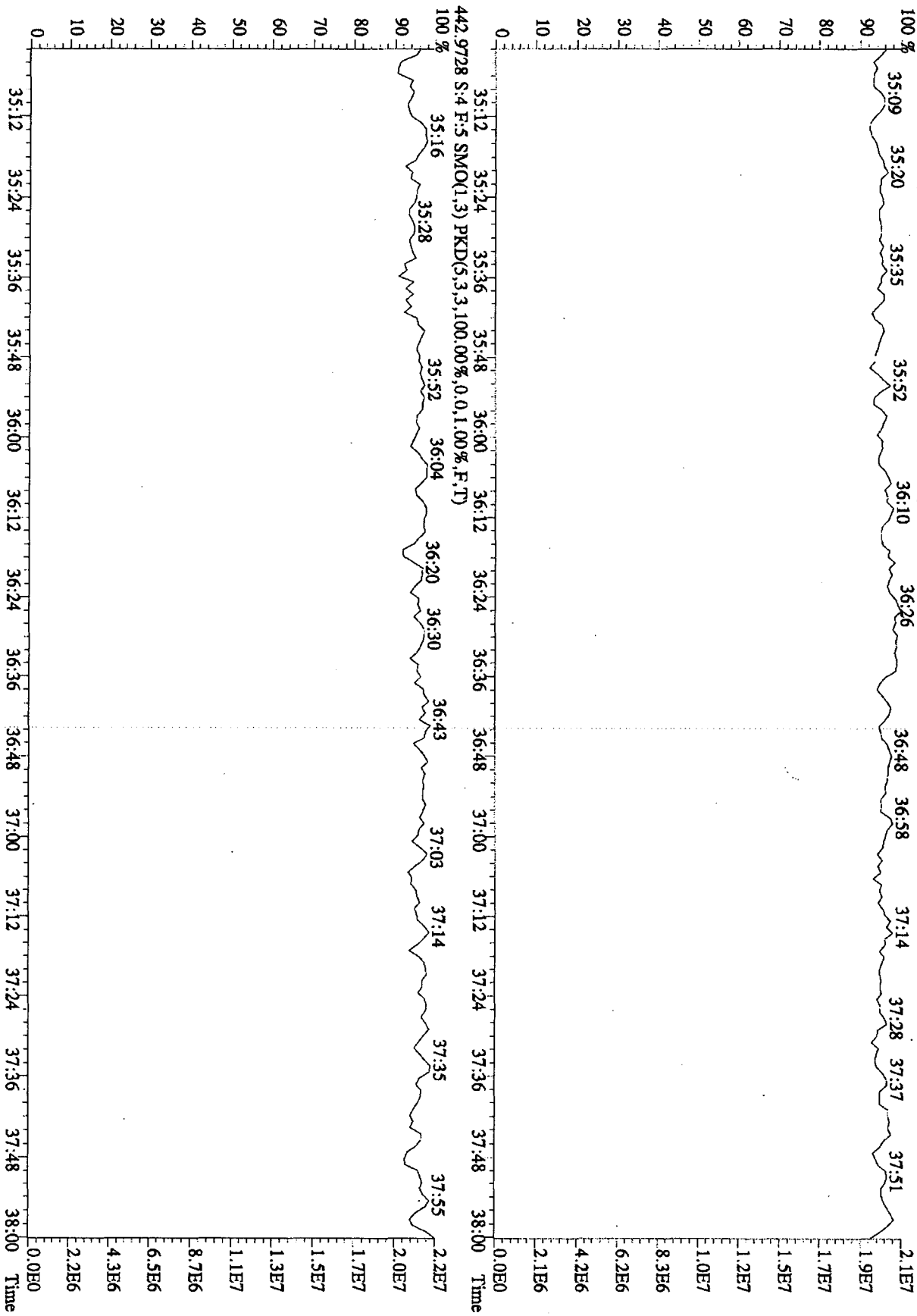
380.9760 S:4 F:3 SMO(1.3) PKD(5,3,3,100,00%,0.0,1.00%,F,T) 27:30 27:39 27:57 28:16 28:35 28:50 29:00 29:15 29:40 29:56 30:00 30:19 30:27 30:46 31:02 31:22 31:50 32:00



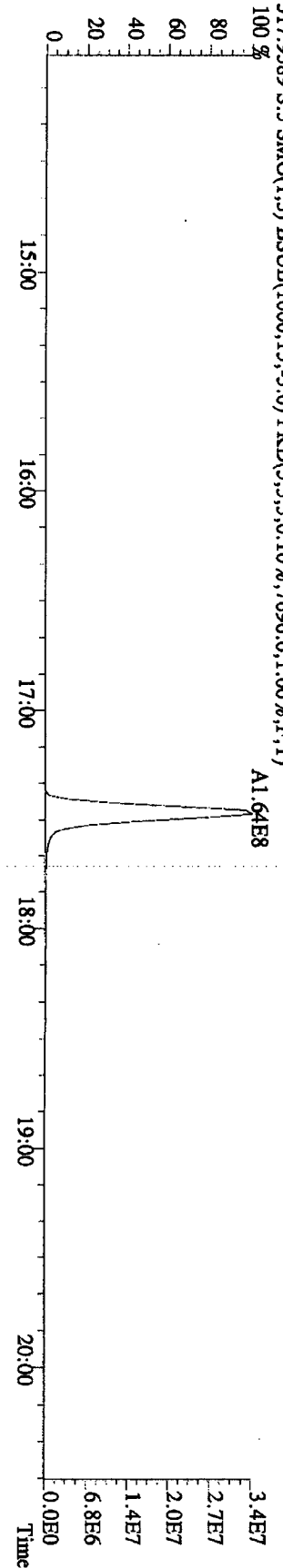
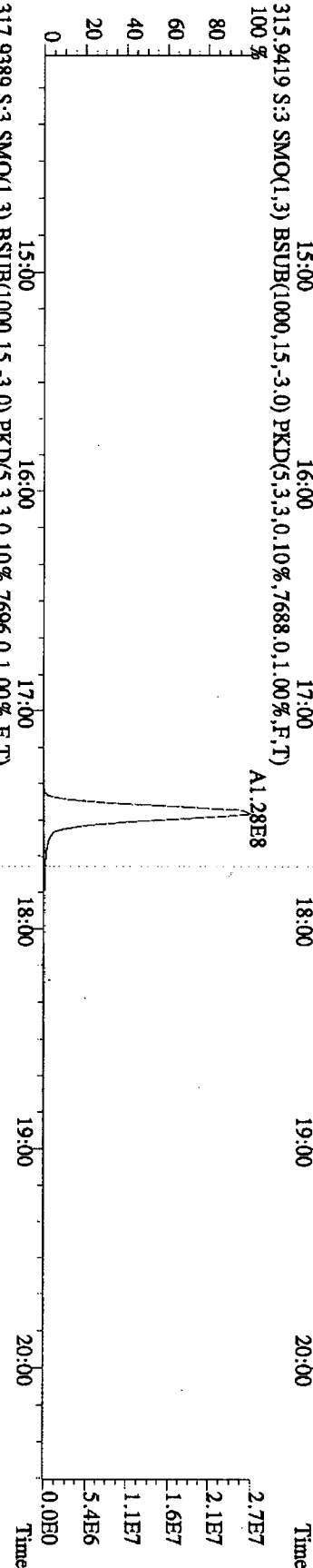
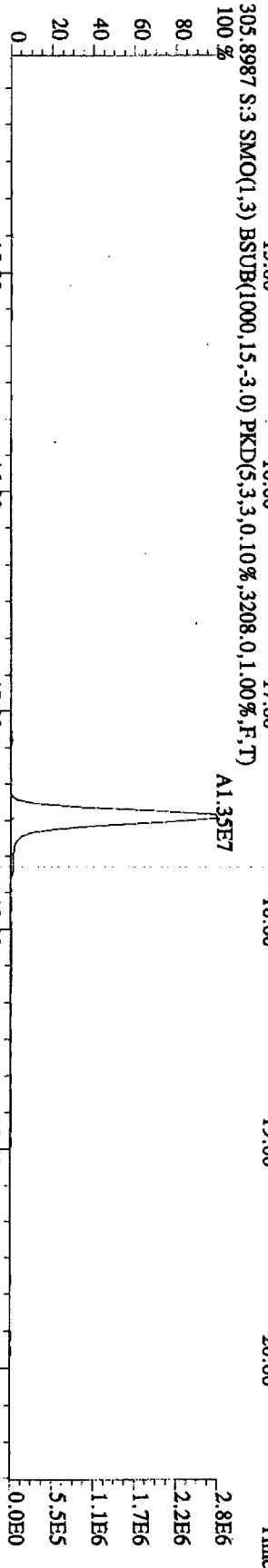
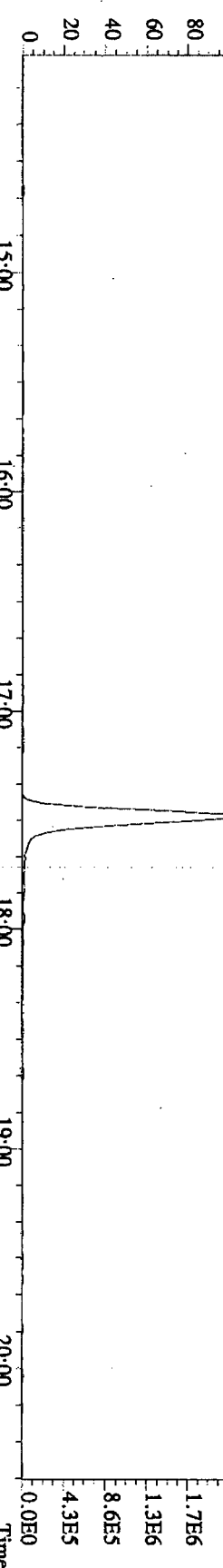
File:290C101D5 #1-202 Acq:29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1029B :CS2 10DXNS04 Exp:DIOXINRES
 430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



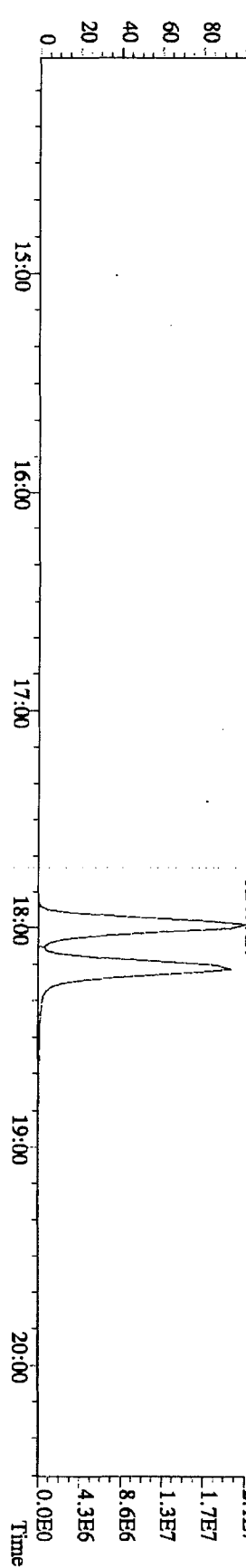
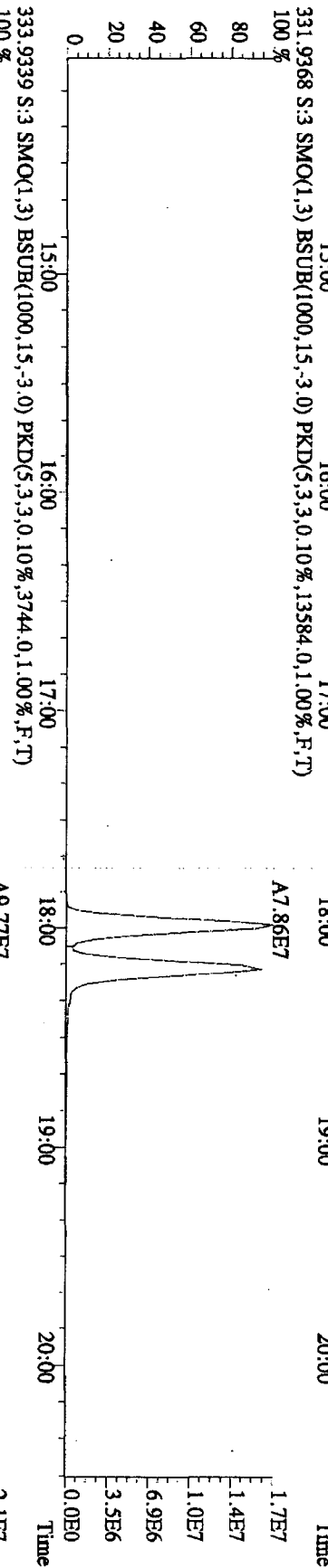
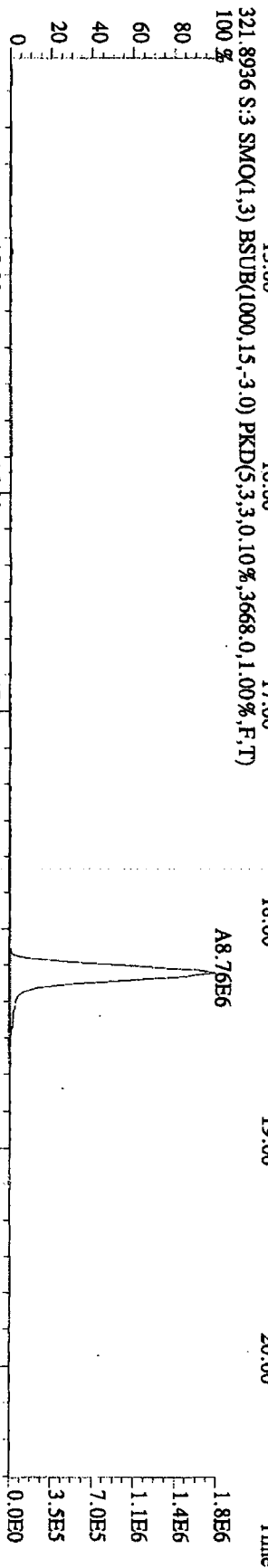
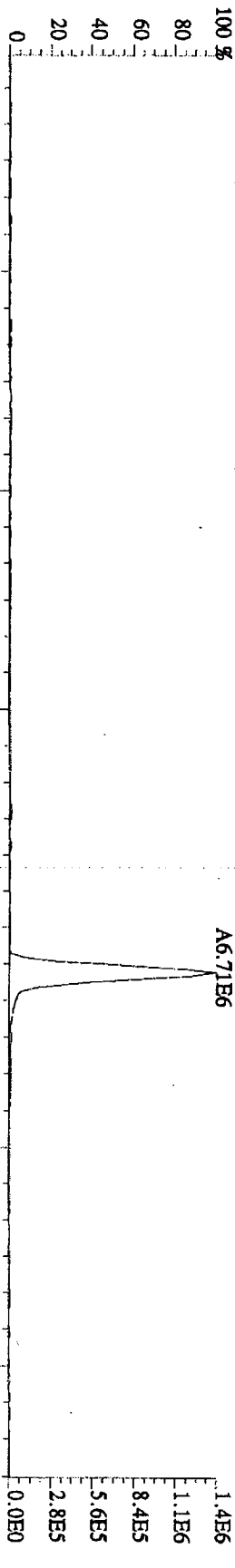
File: 29OCT10ID5 #1-196 Acq: 29-OCT-2010 07:47:30 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1029B :CS2 10DDXN504 Exp: DIOXINRES
 454.9728 S:4 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



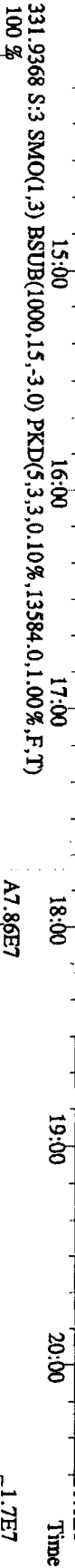
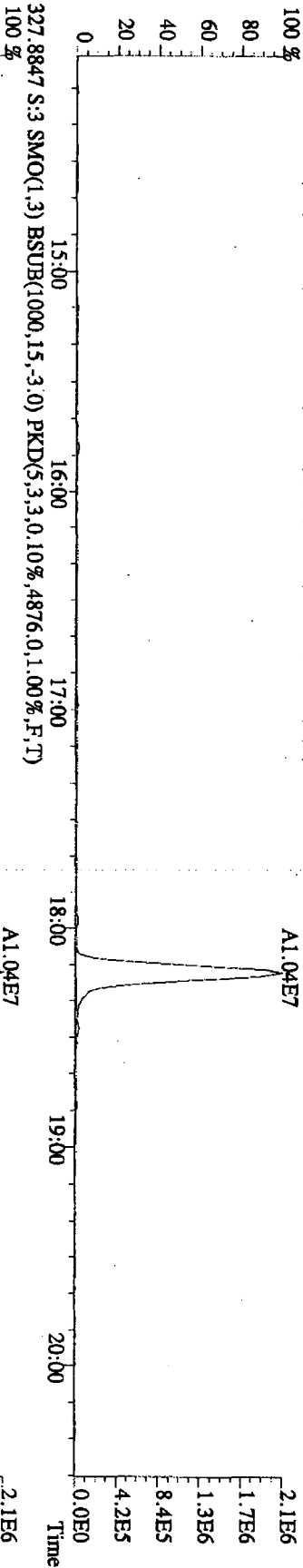
File: 290C101D5 #1-382 Acq: 29-OCT-2010 07:04:39 GC EI + Voltage SIR 70SE
 Sample#3 Text: ST1029A : CS3 10DXN505 Exp: DIOXINRES
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,2644,0,1.00%,F,T)



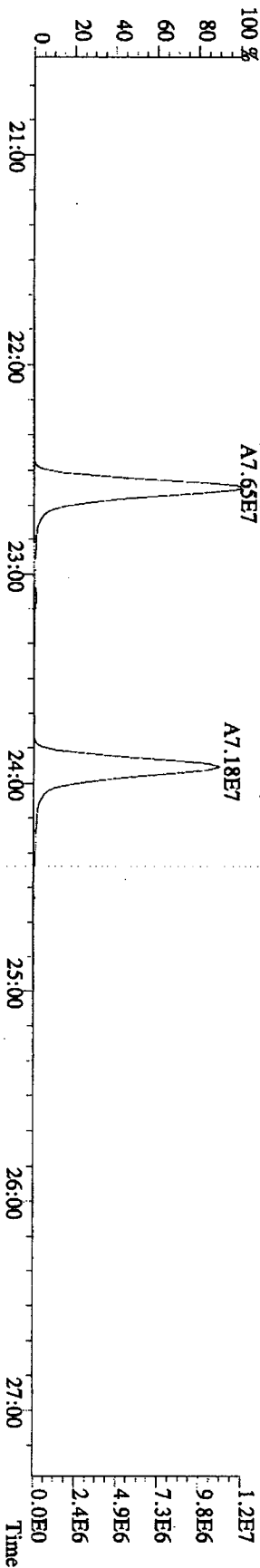
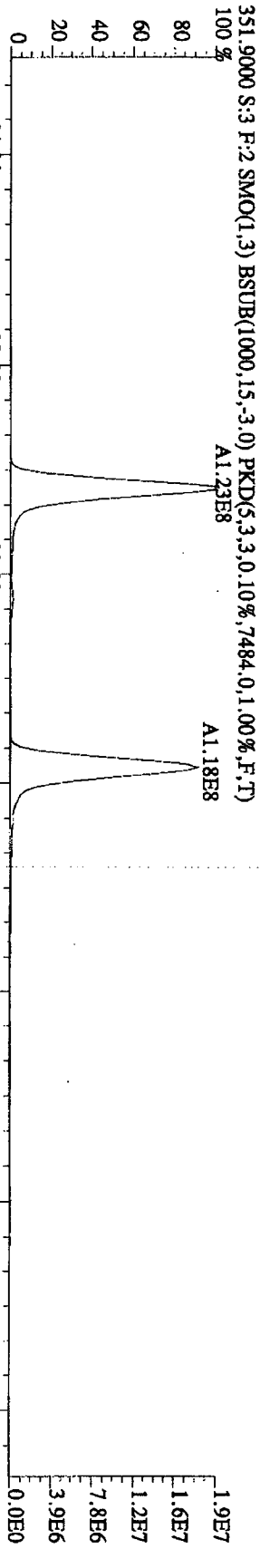
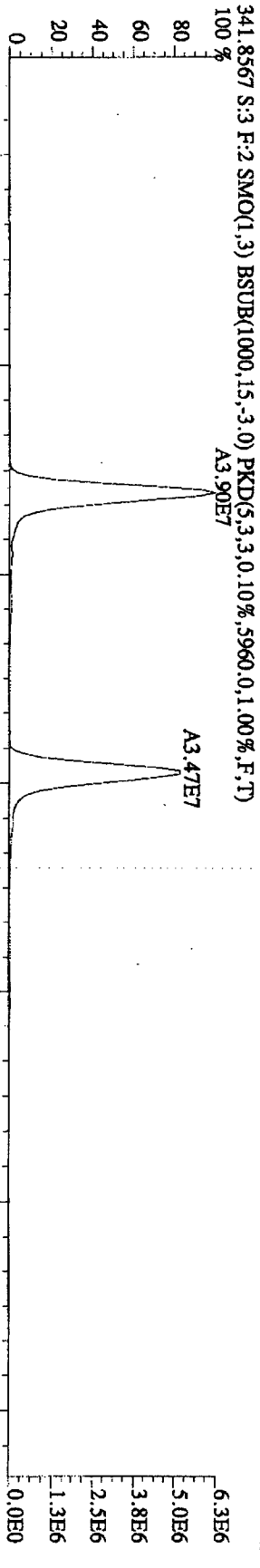
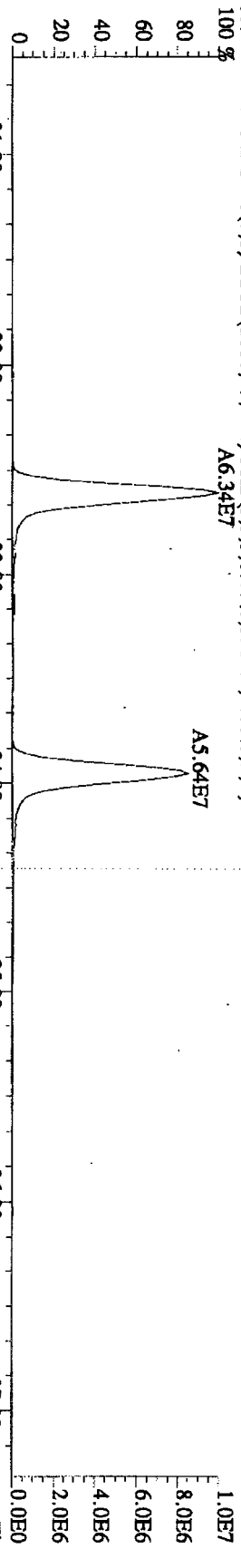
File: 290C101D5 #1-382 Acq: 29-OCT-2010 07:04:39 GC EI + Voltage SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3708,0,1,00%,F,T)
 100 %



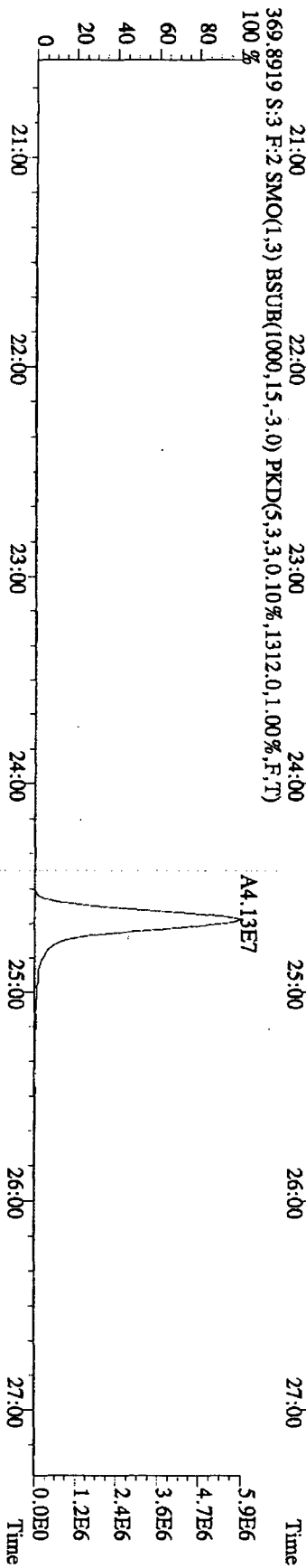
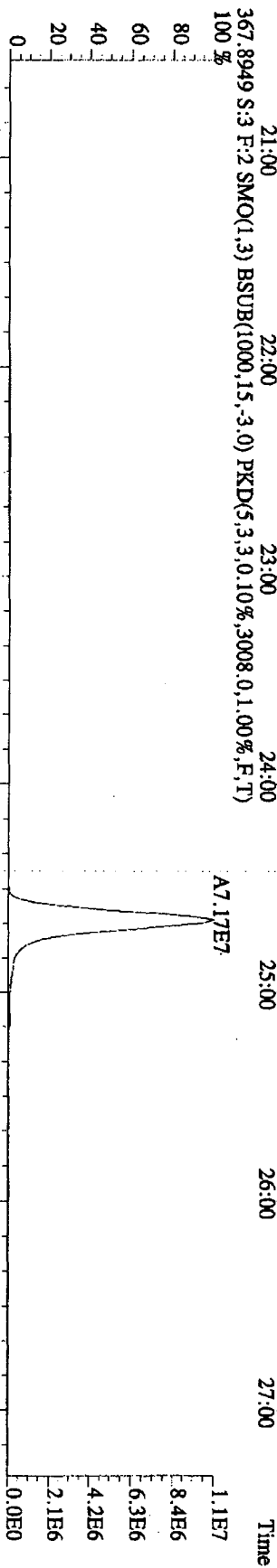
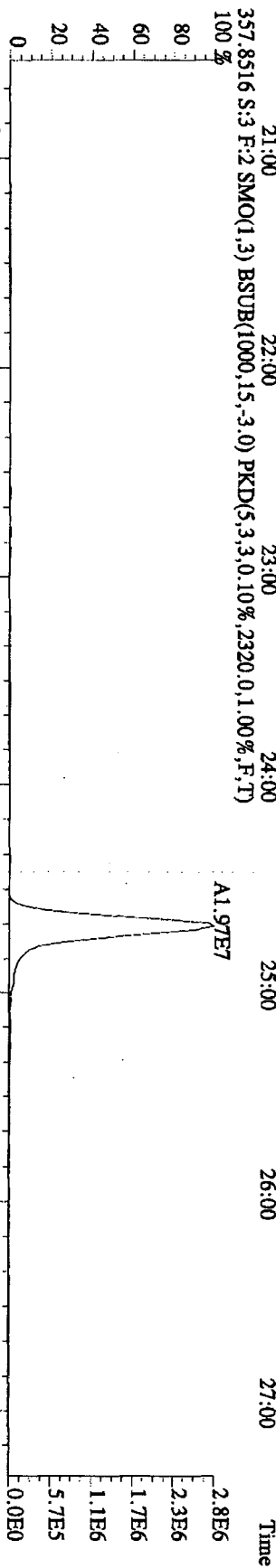
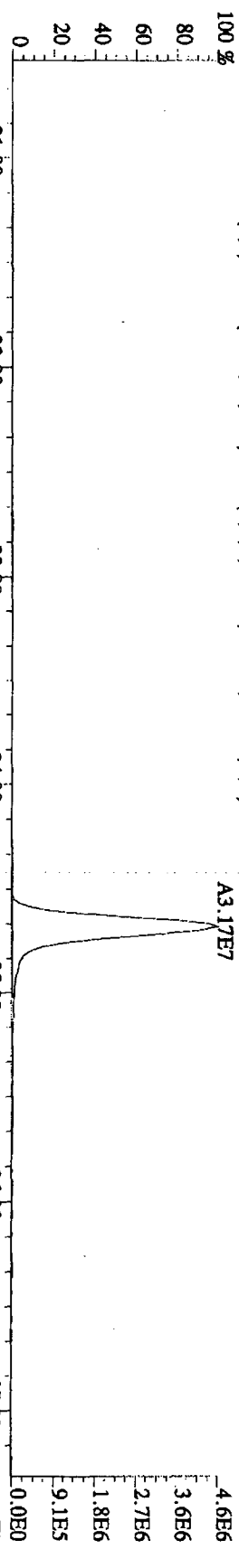
File: 29OCT101D5 #1-382 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1029A : CS3 10DXN505 Exp: DIOXINRES
 327.8847 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4876,0,1,00%,F,T)
 100%



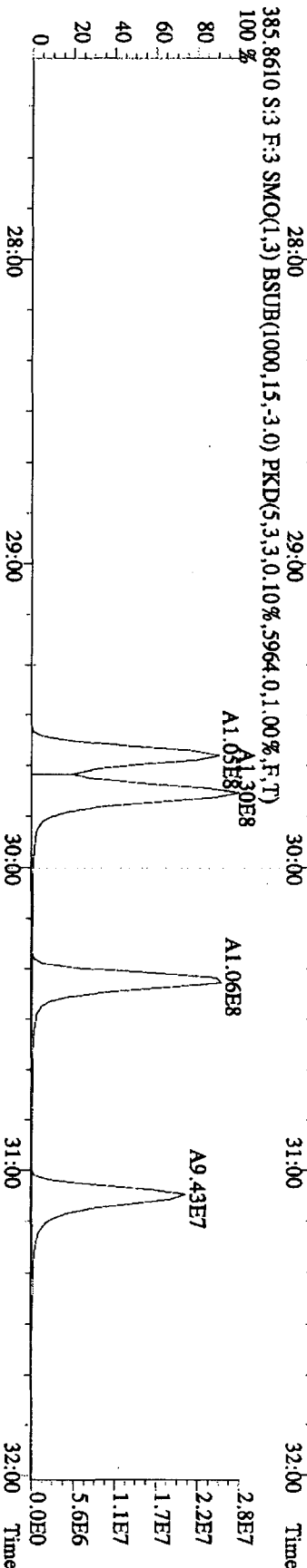
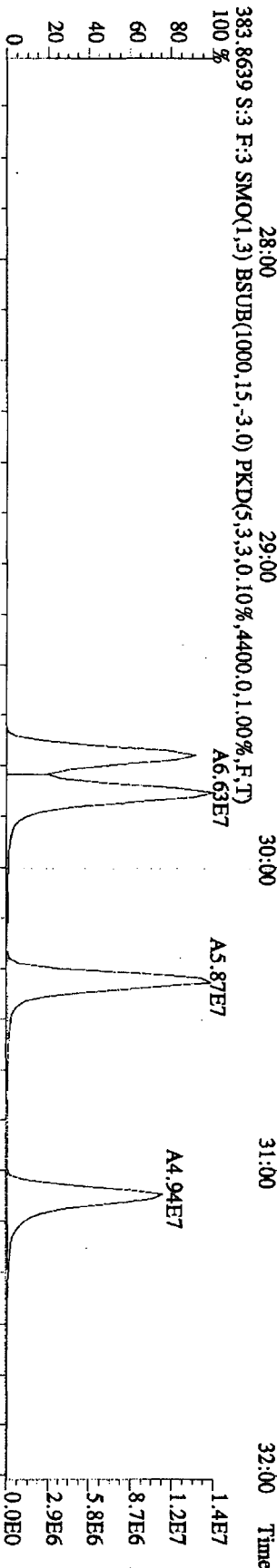
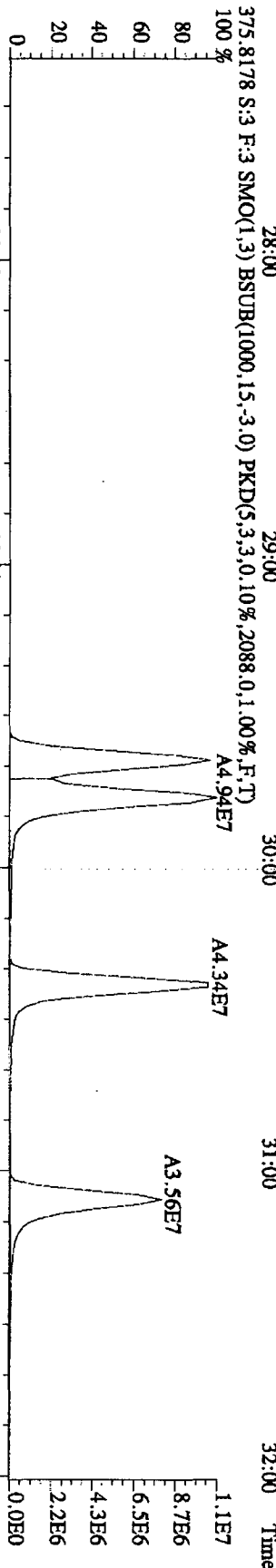
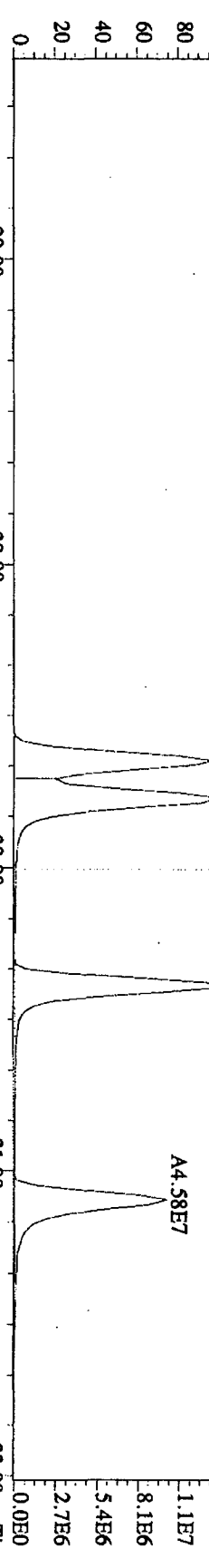
File: 29OC101D5 #1-423 Acq: 29-OCT-2010 07:04:39 GC EI + Voltage SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5984.0,1.00%,F,T)
 100%



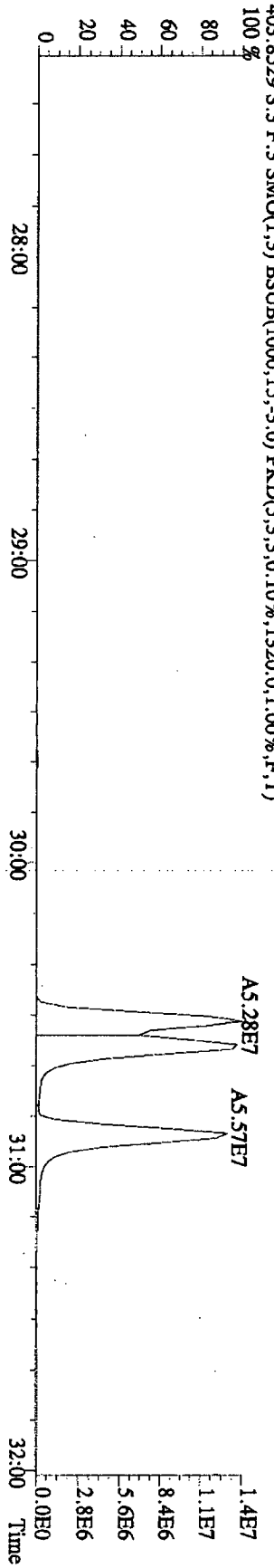
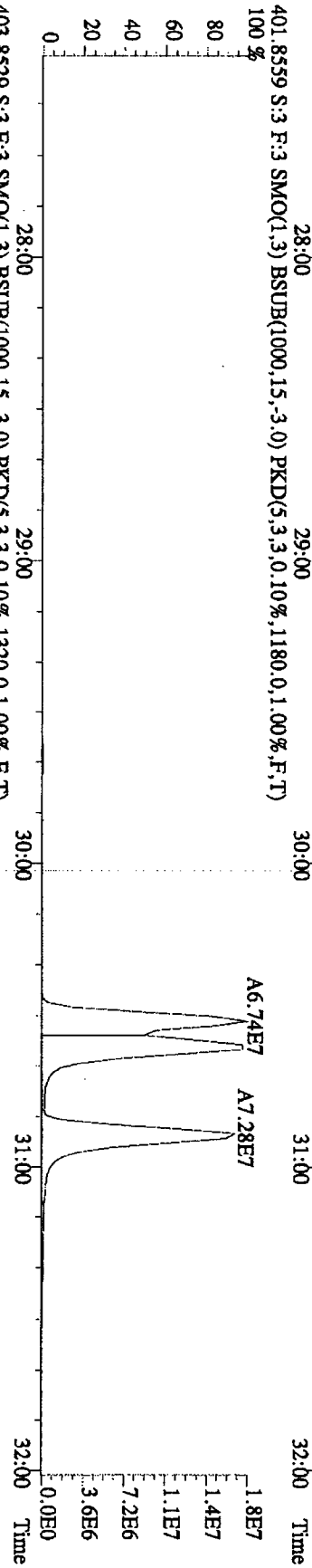
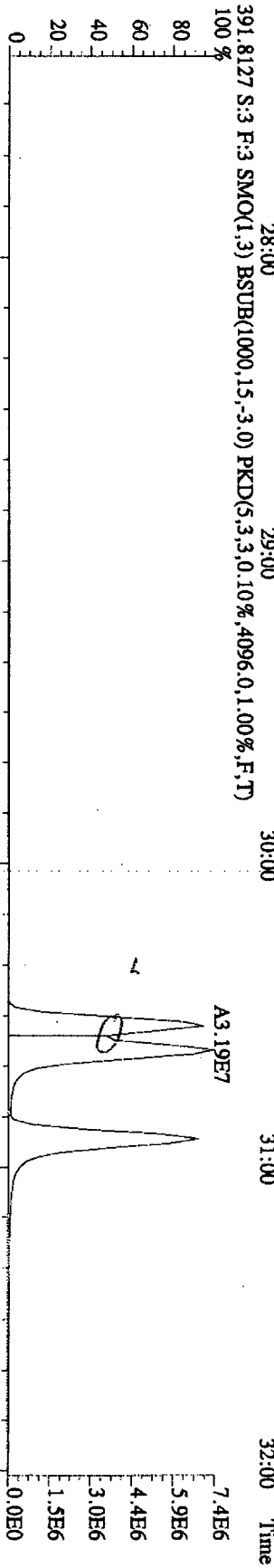
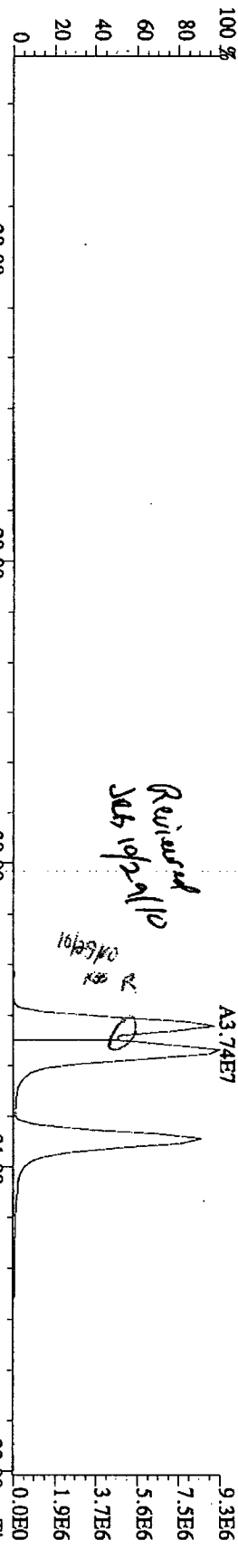
File:29OC101D5 #1-423 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXNS05 Exp:DIOXINRES
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4736,0,1,00%,F,T)
 100 %



File:290C101D5 #1-301 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXN505 Exp:DIOXINRES
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3976,0,1.00%,F,T)
 100%



File:290C101ID5 #1-301 Acq:29-OCT-2010 07:04:39 GC EI + Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXN505 Exp:DIOXINRES
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1700,0,1,00%,F,T)

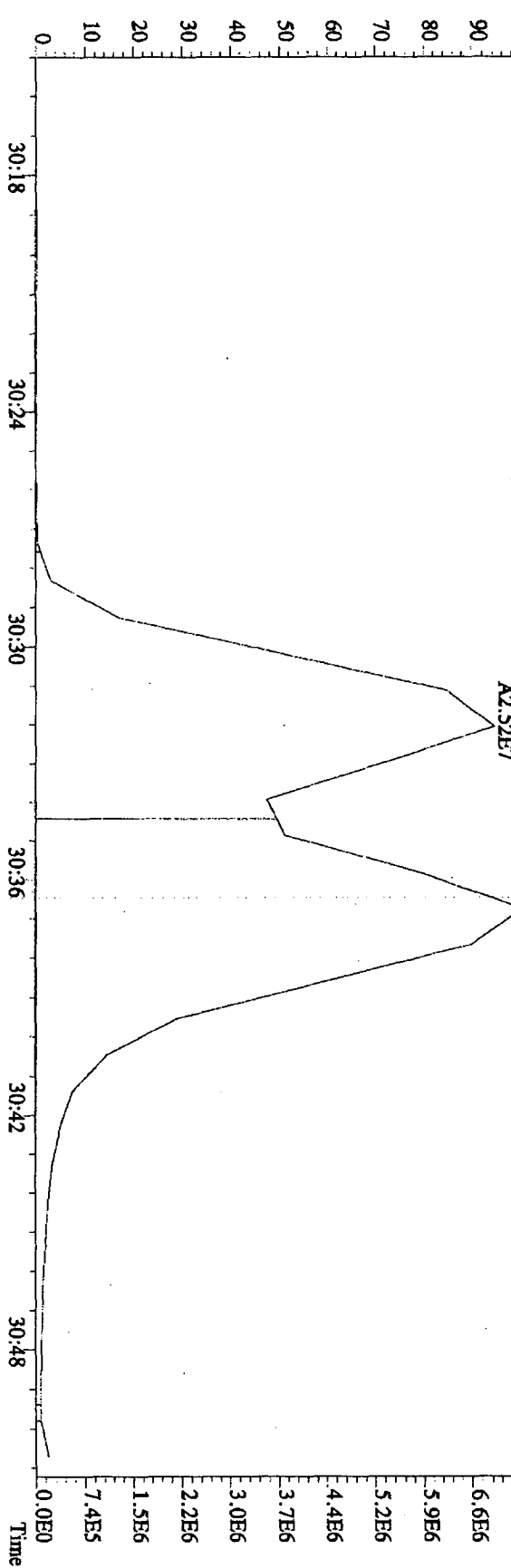
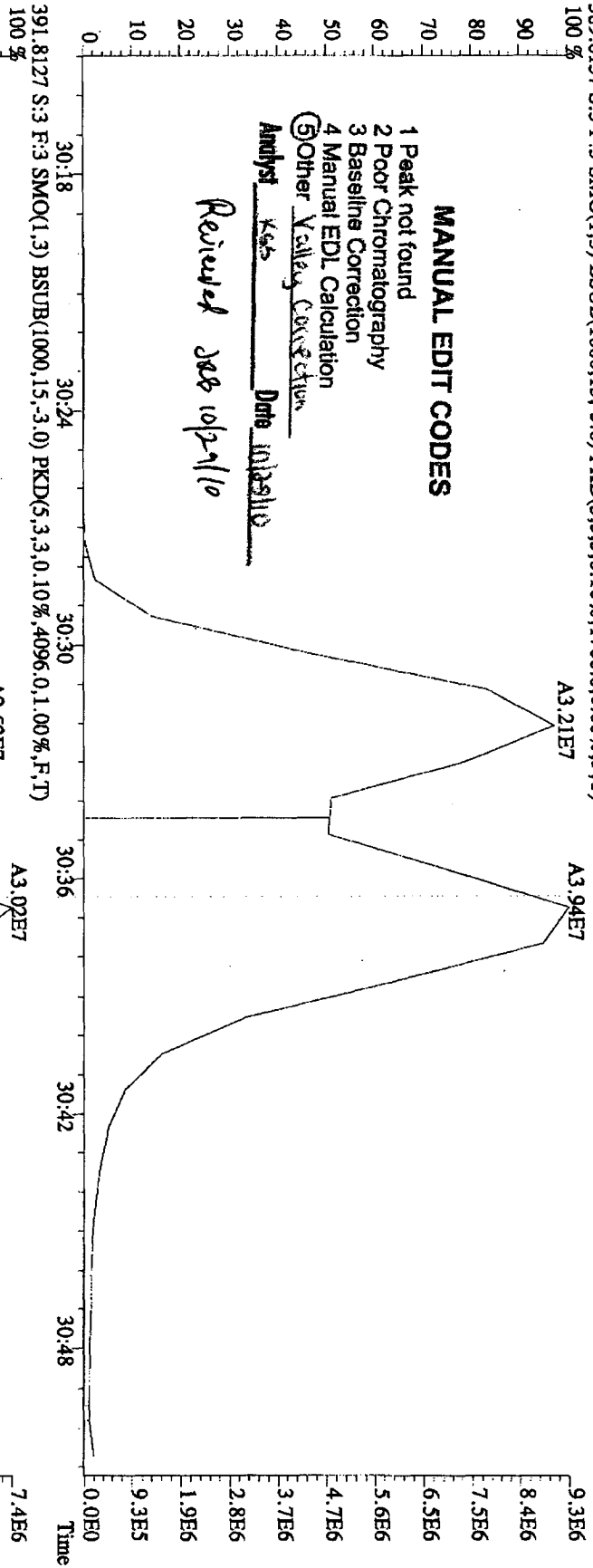


File:29OC101D5 #1-301 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXN505 Exp:DIOXINRES
 389.8157 S:3 F:3 SMO(1,3) BSTUB(1000,15,-3,0) PKD(5,3,3,0,10%,1700,0,1,100%,F,T)

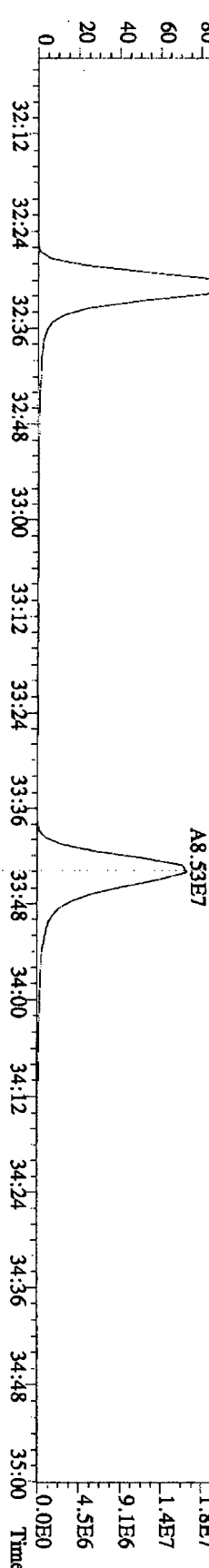
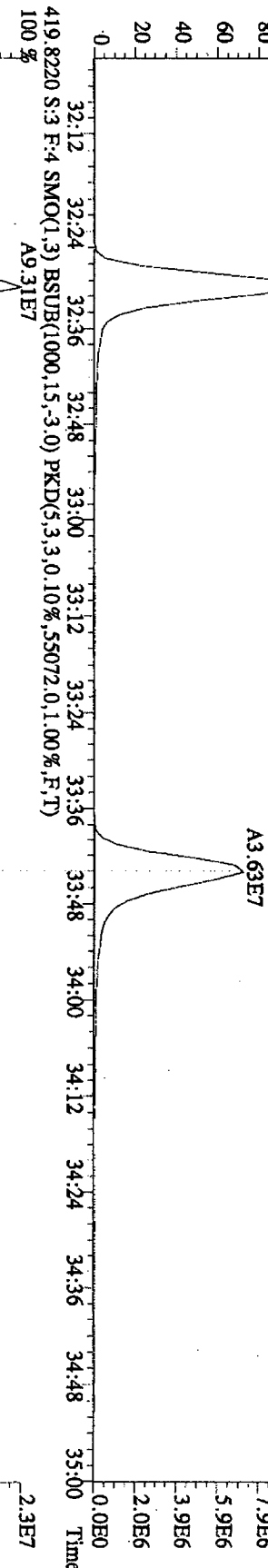
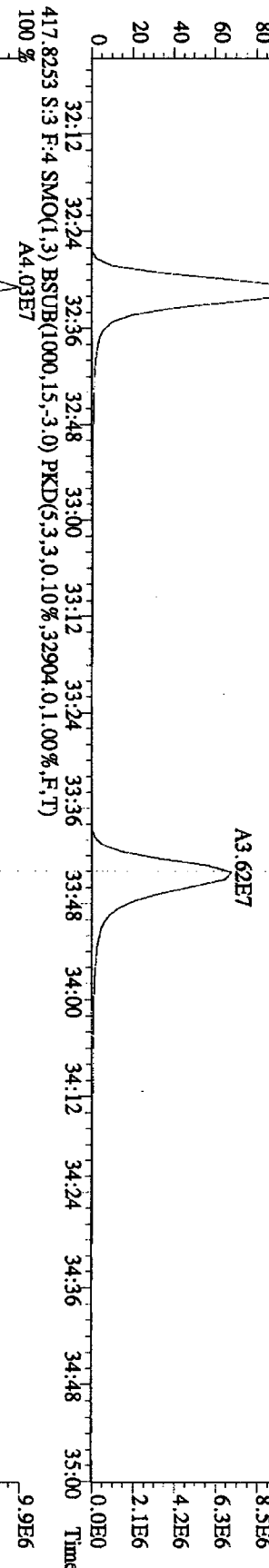
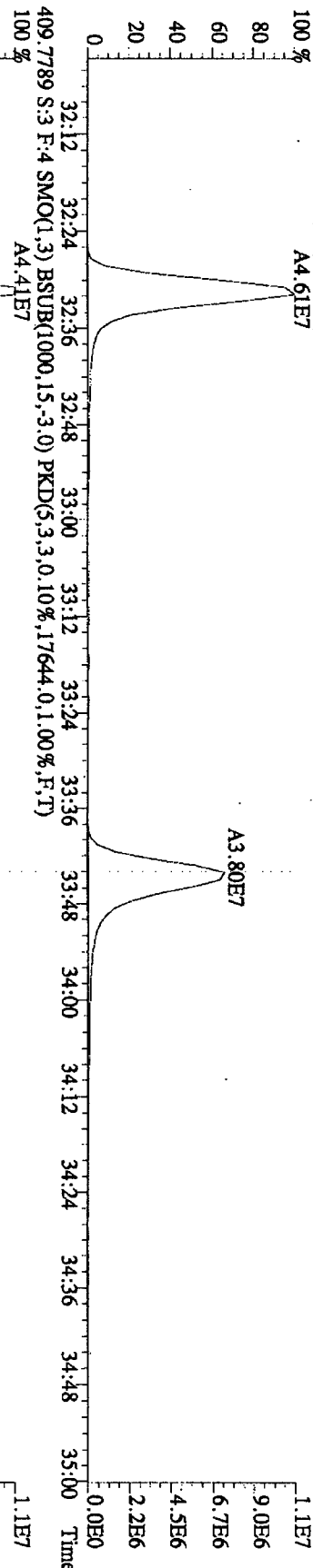
MANUAL EDIT CODES

- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other Valley Correction

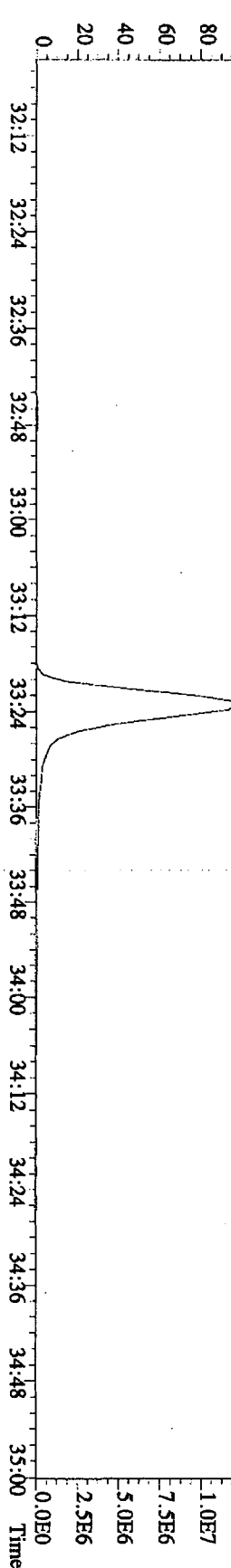
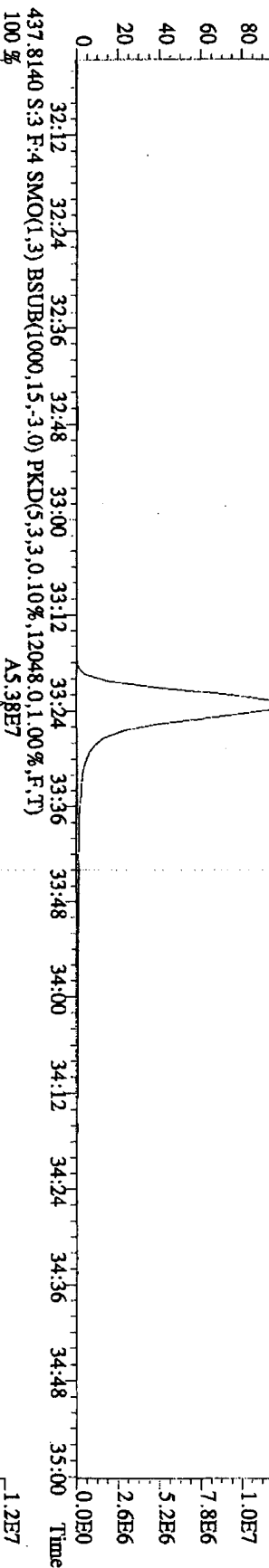
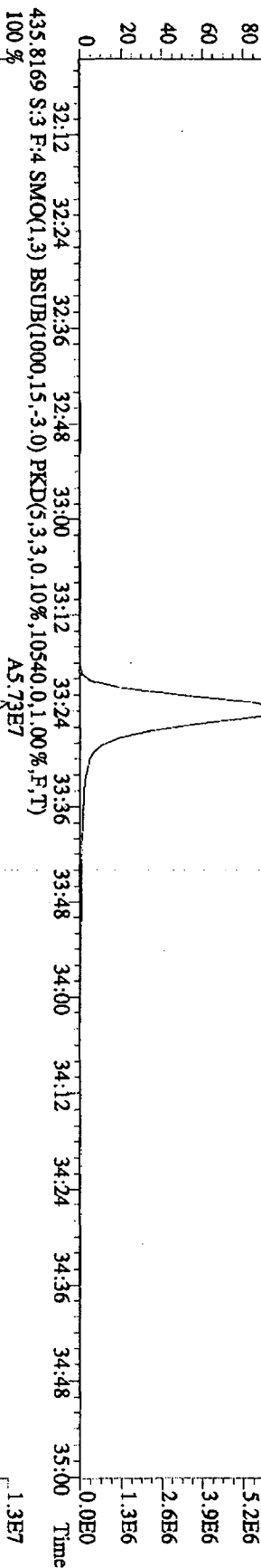
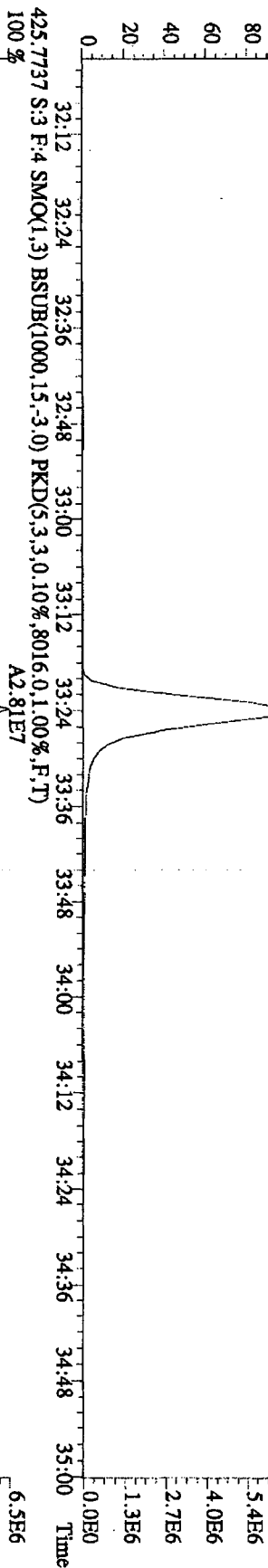
Analyst Kes Date 10/29/10
 Reviewed JOB 10/29/10



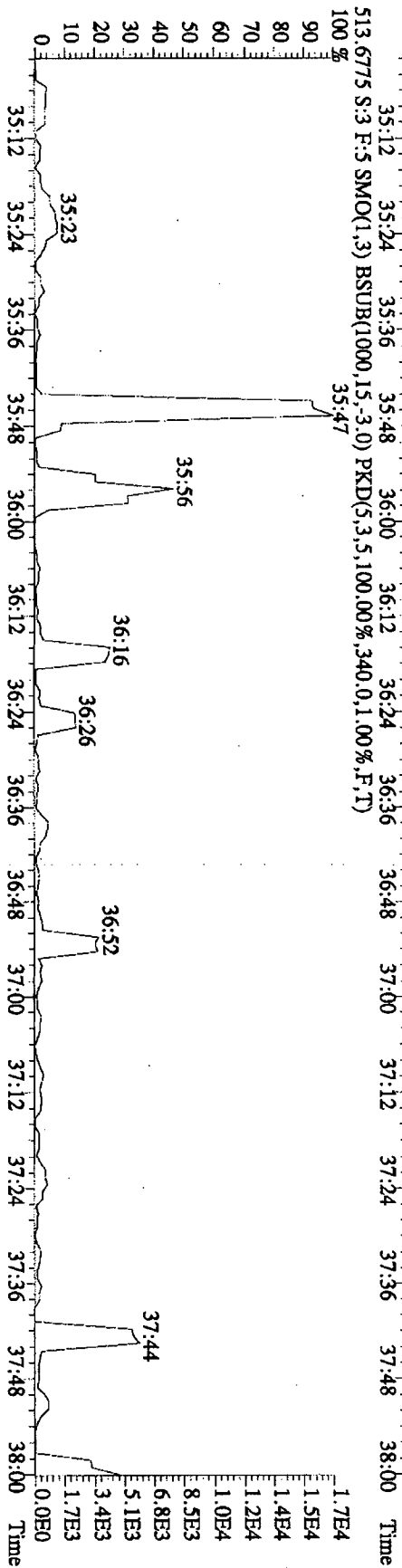
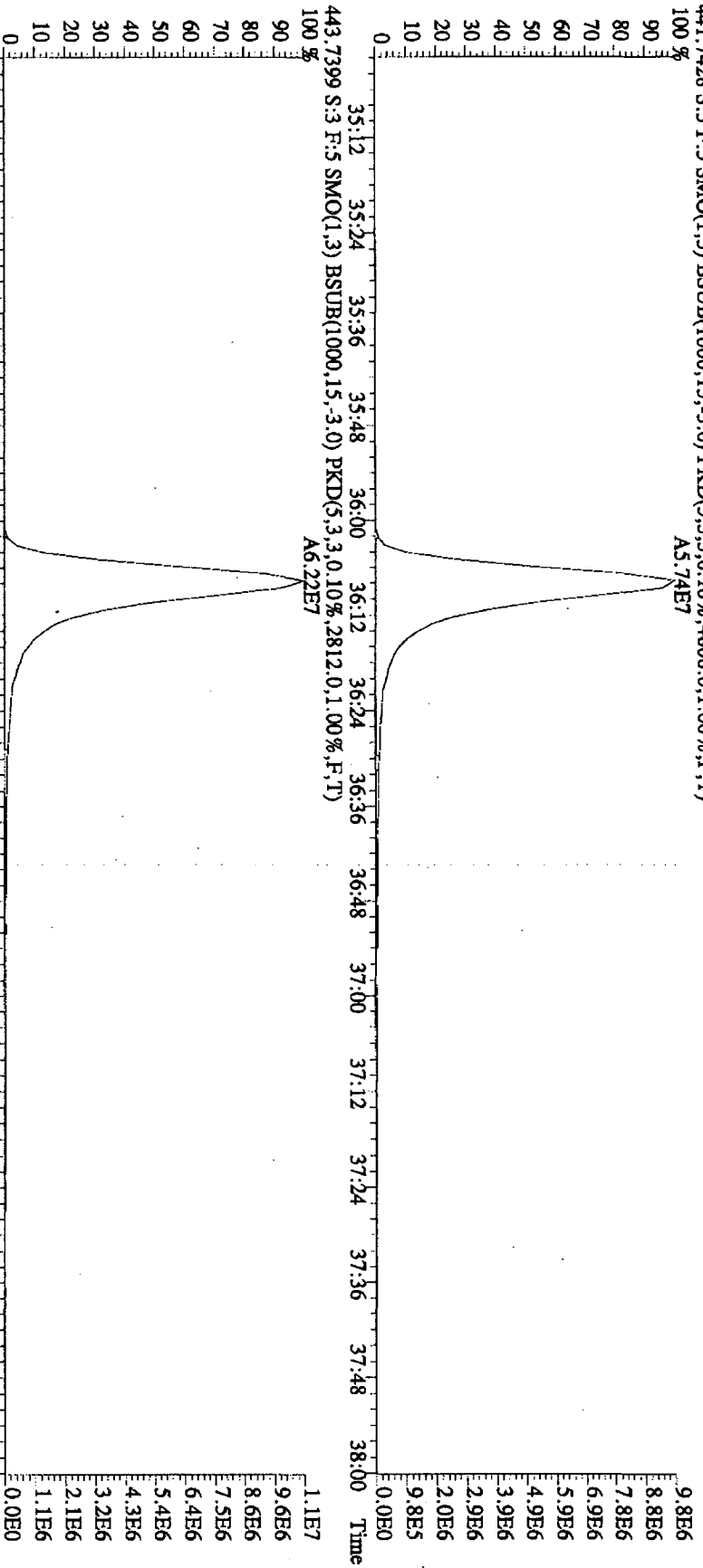
File:29OCT101D5 #1-202 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXNS05 Exp.:DIOXINRES
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.9960,0.1,00%,F,T)



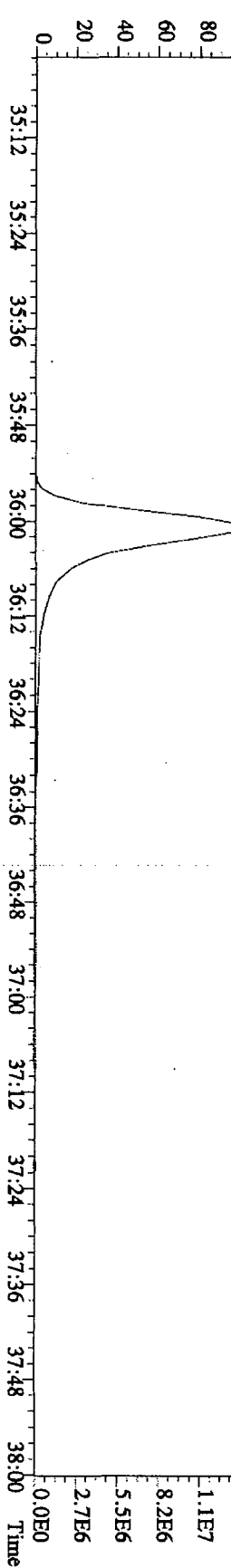
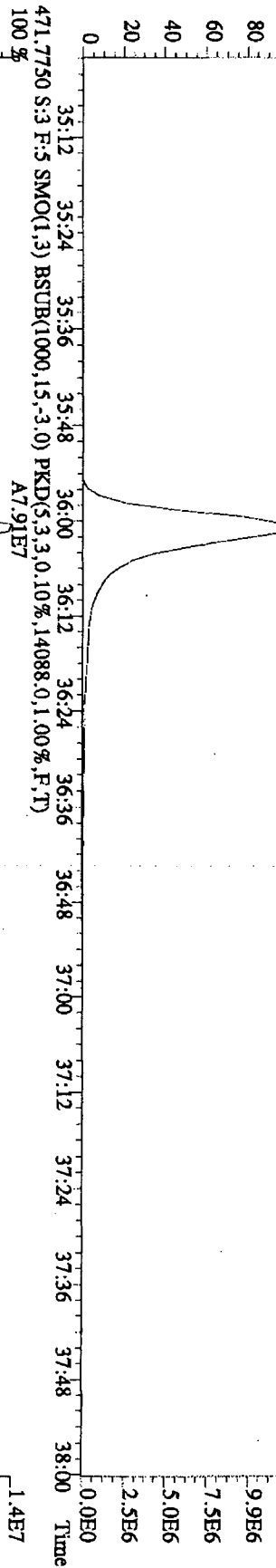
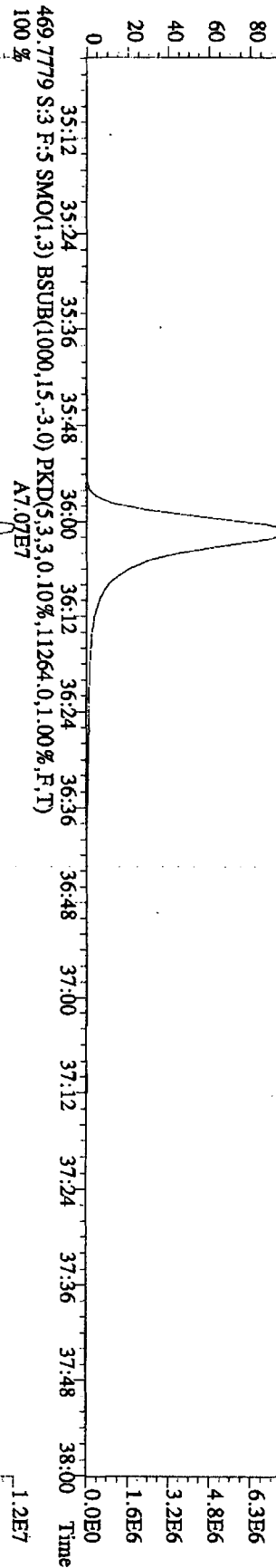
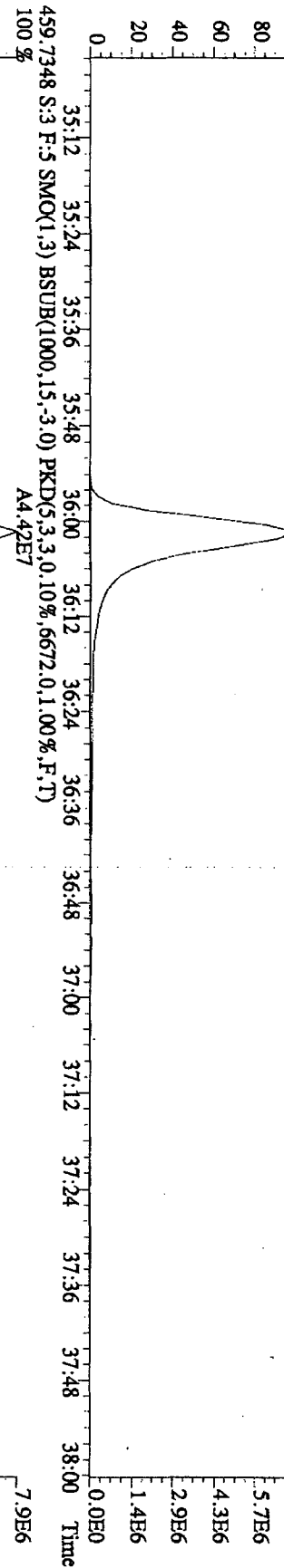
File: 29OCT101D5 #1-202 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage: SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7700,0,1,00%,F,T)
 100% A2.94E7



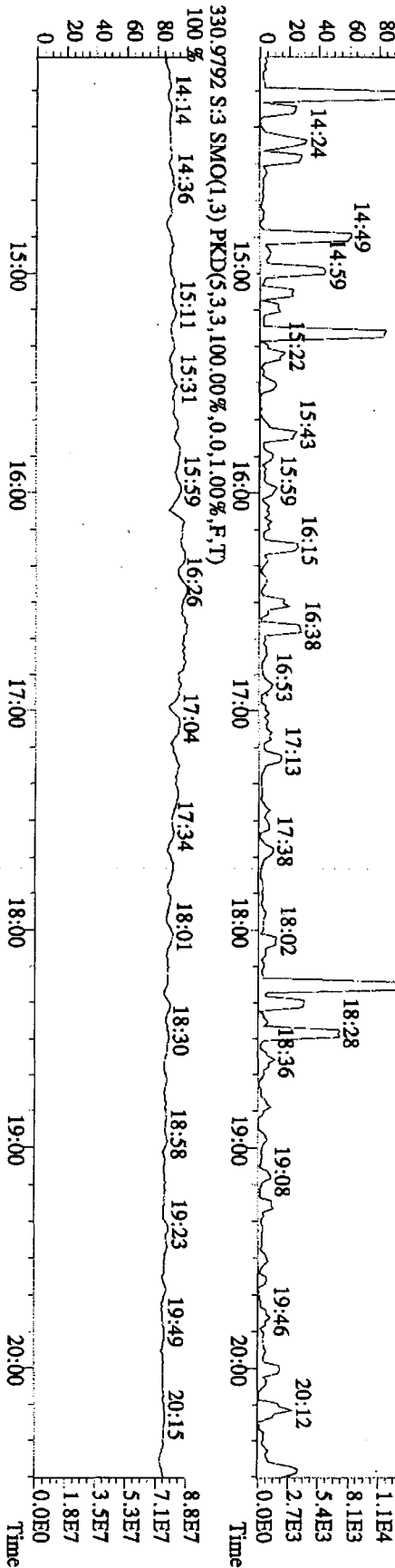
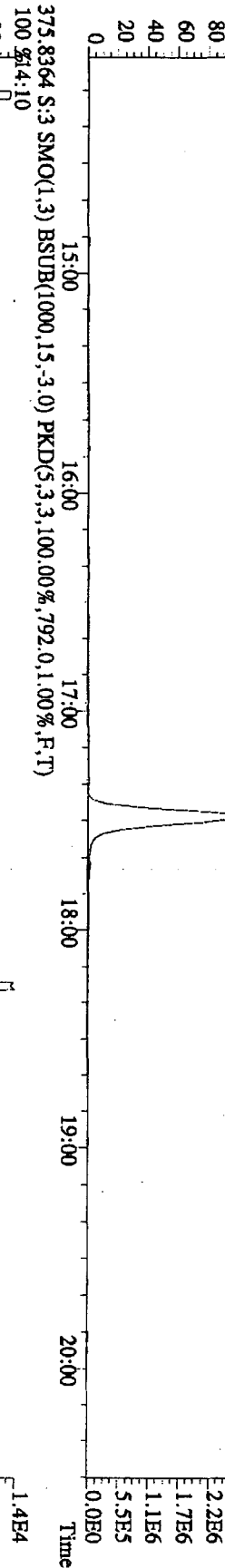
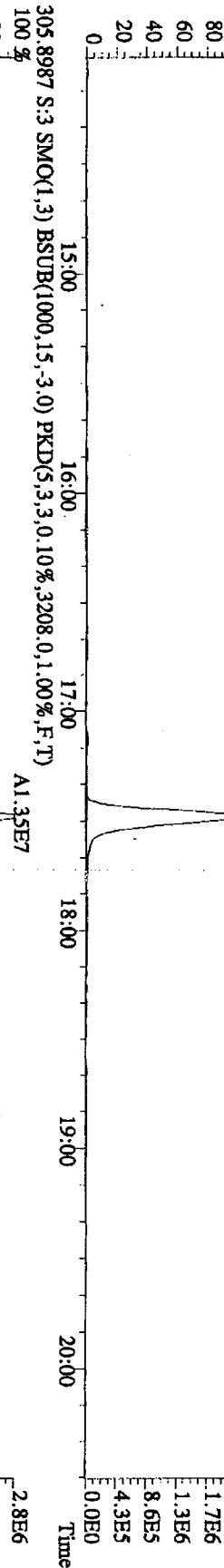
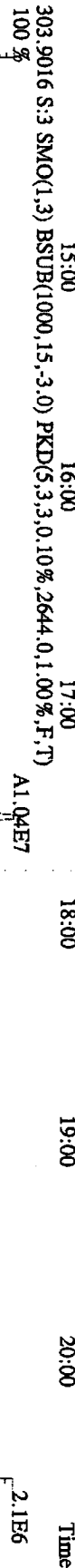
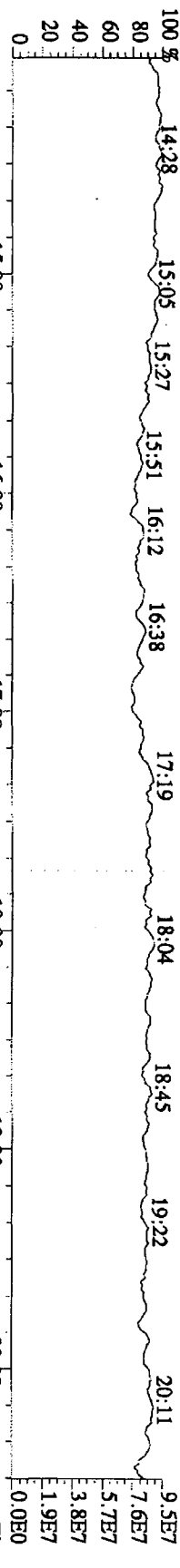
File: 290C101D5 #1-196 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage: SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,4808.0,1.00%,F,T)
 A5.74E7



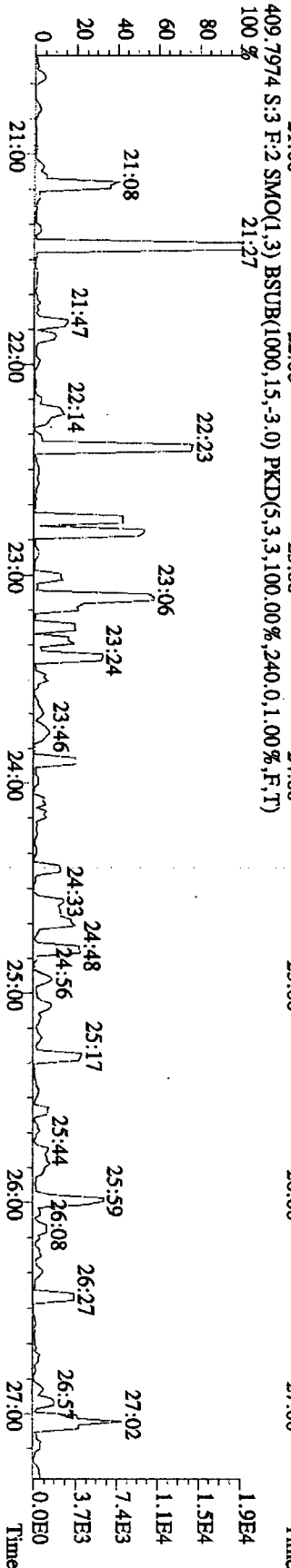
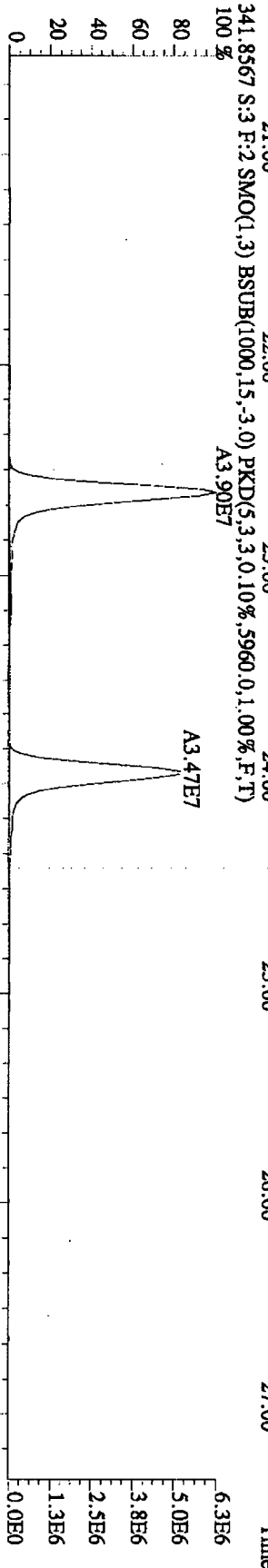
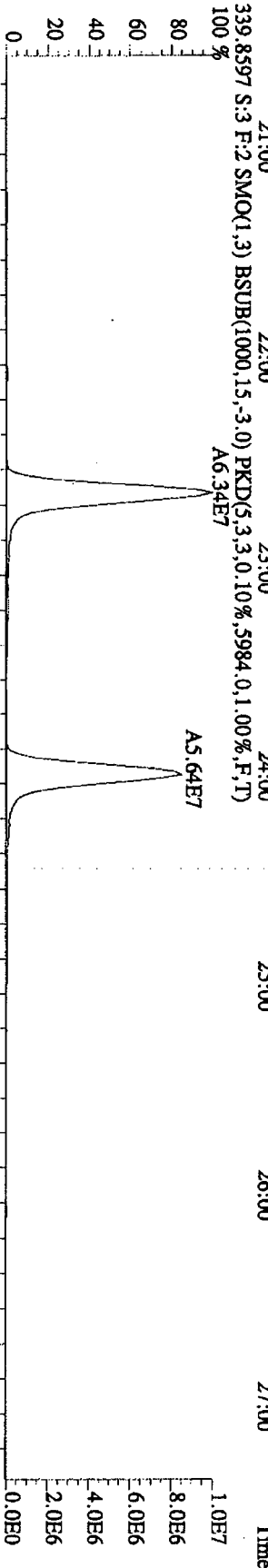
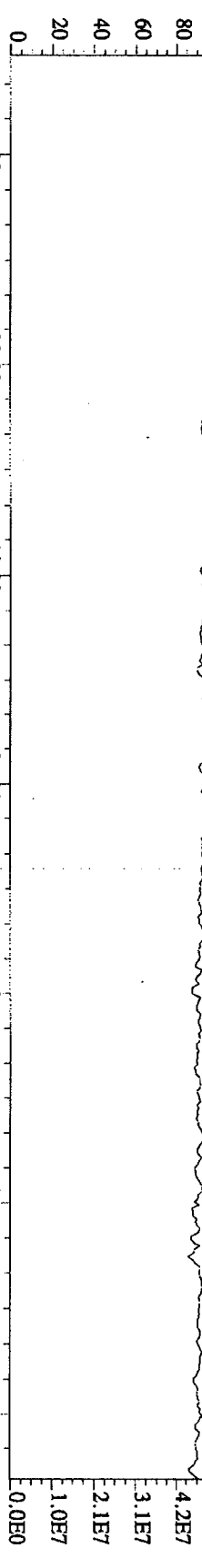
File:29OC101D5 #1-196 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXN505 Exp:DIOXINES
 457.7377 S:3 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,3640.0,1.00%,F,T)
 100% A3.96E7



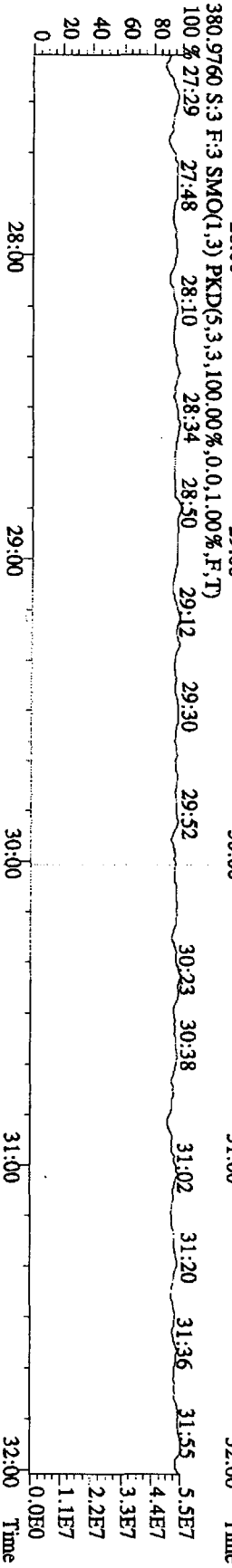
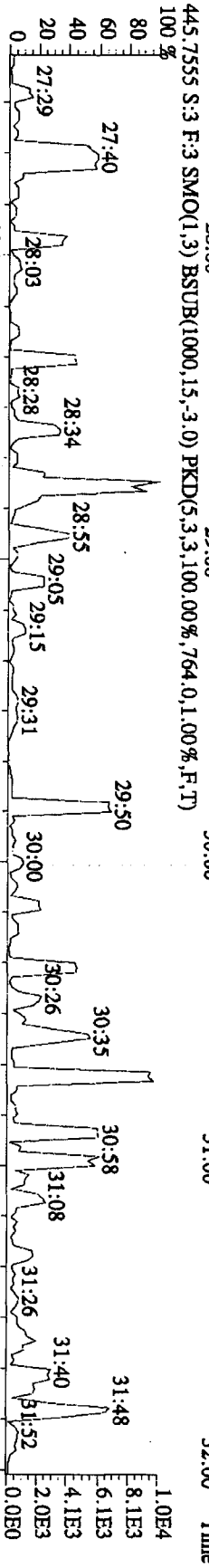
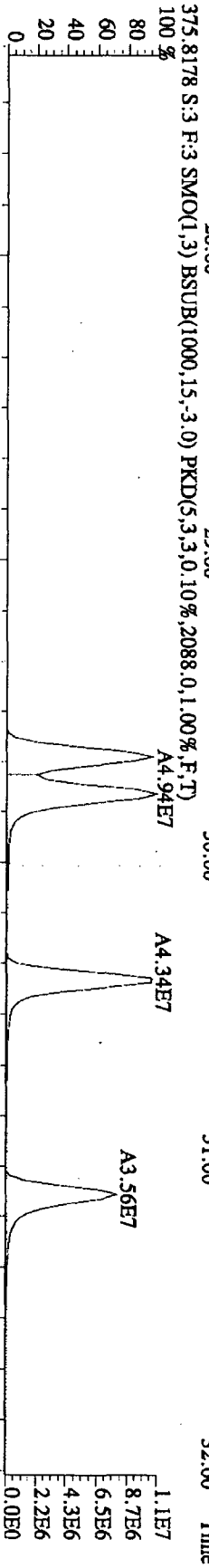
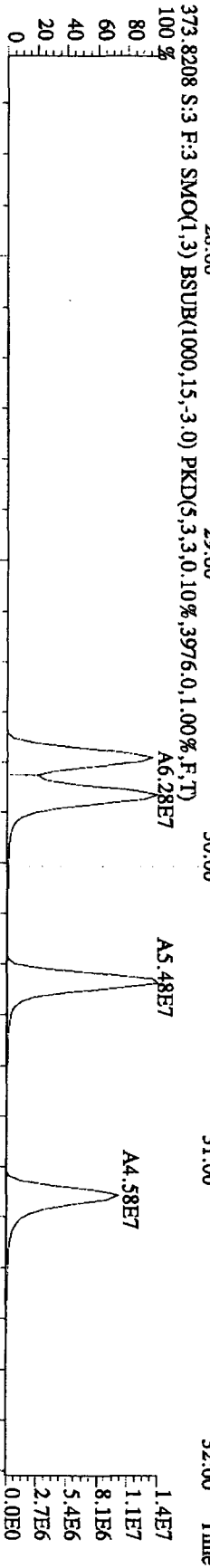
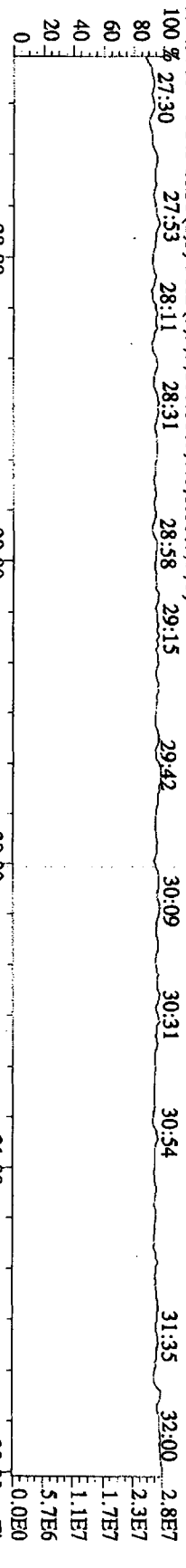
File: 290C101D5 #1-382 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



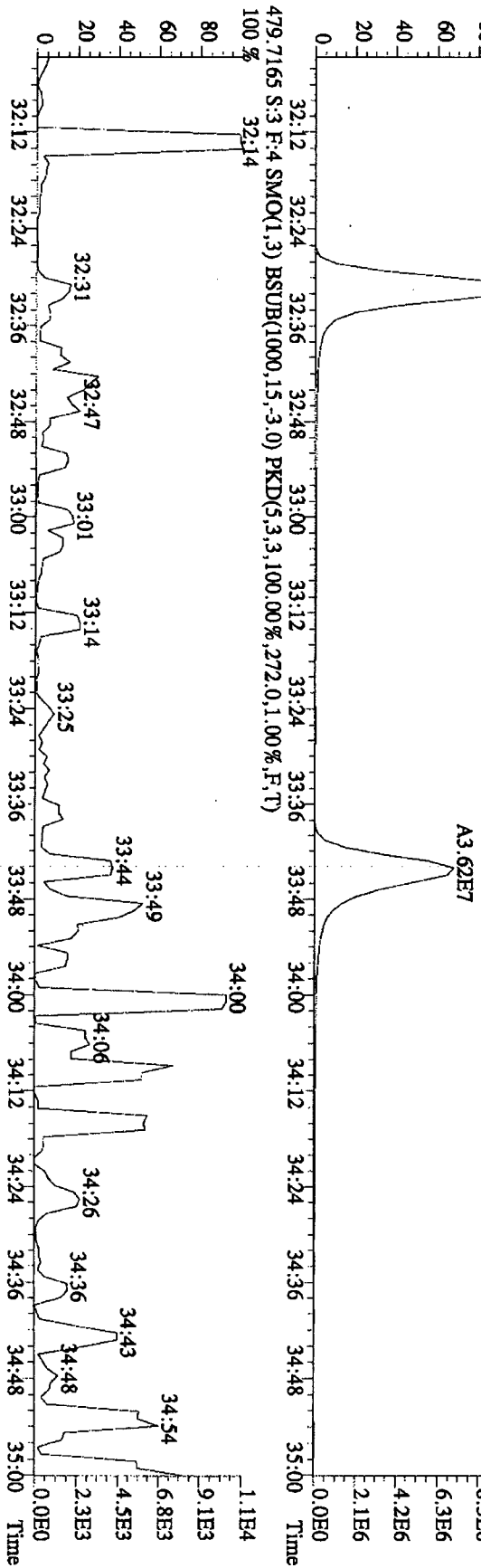
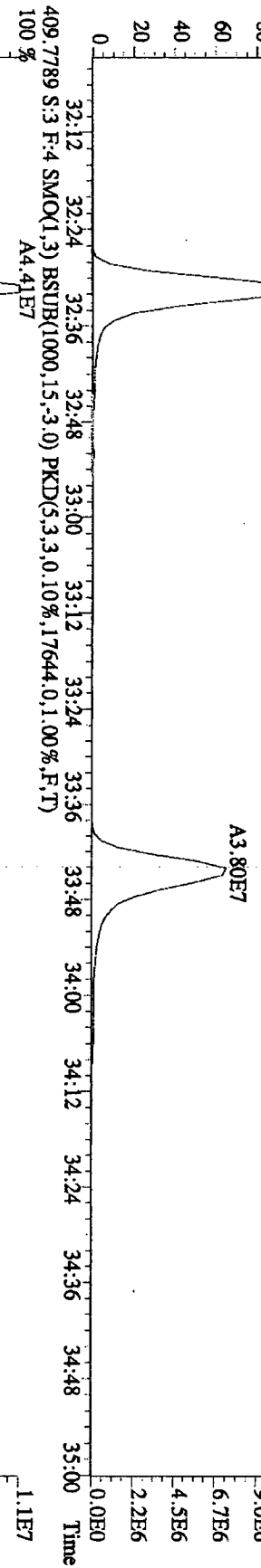
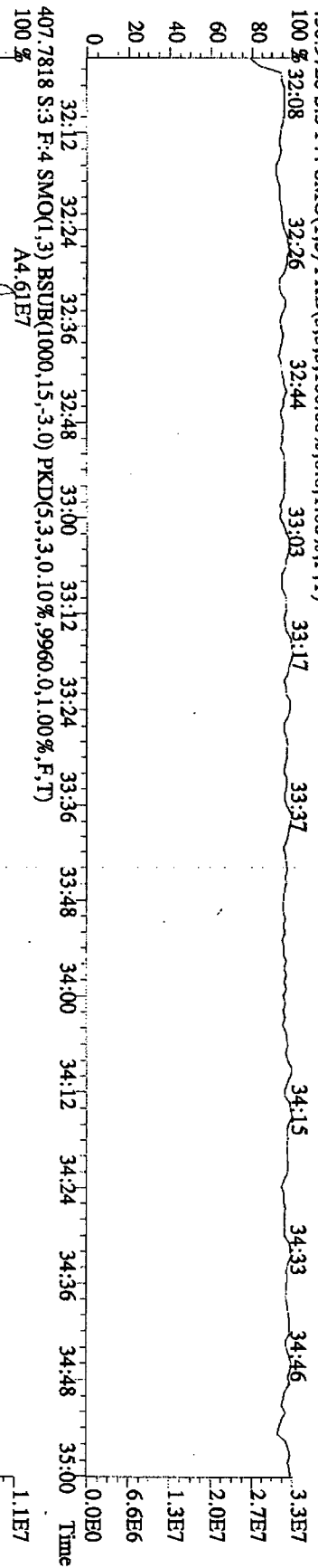
File: 29OC101D5 #1-423 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage: SIR 70SE
 Sample#3 Text: ST1029A :CS3 10DXN505 Exp: DIOXINRES
 342.9792 S:3 F:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)
 100.280:41 21:15 21:37 22:02 22:40 23:09 23:48 24:10 24:44 25:11 25:40 26:24 27:00



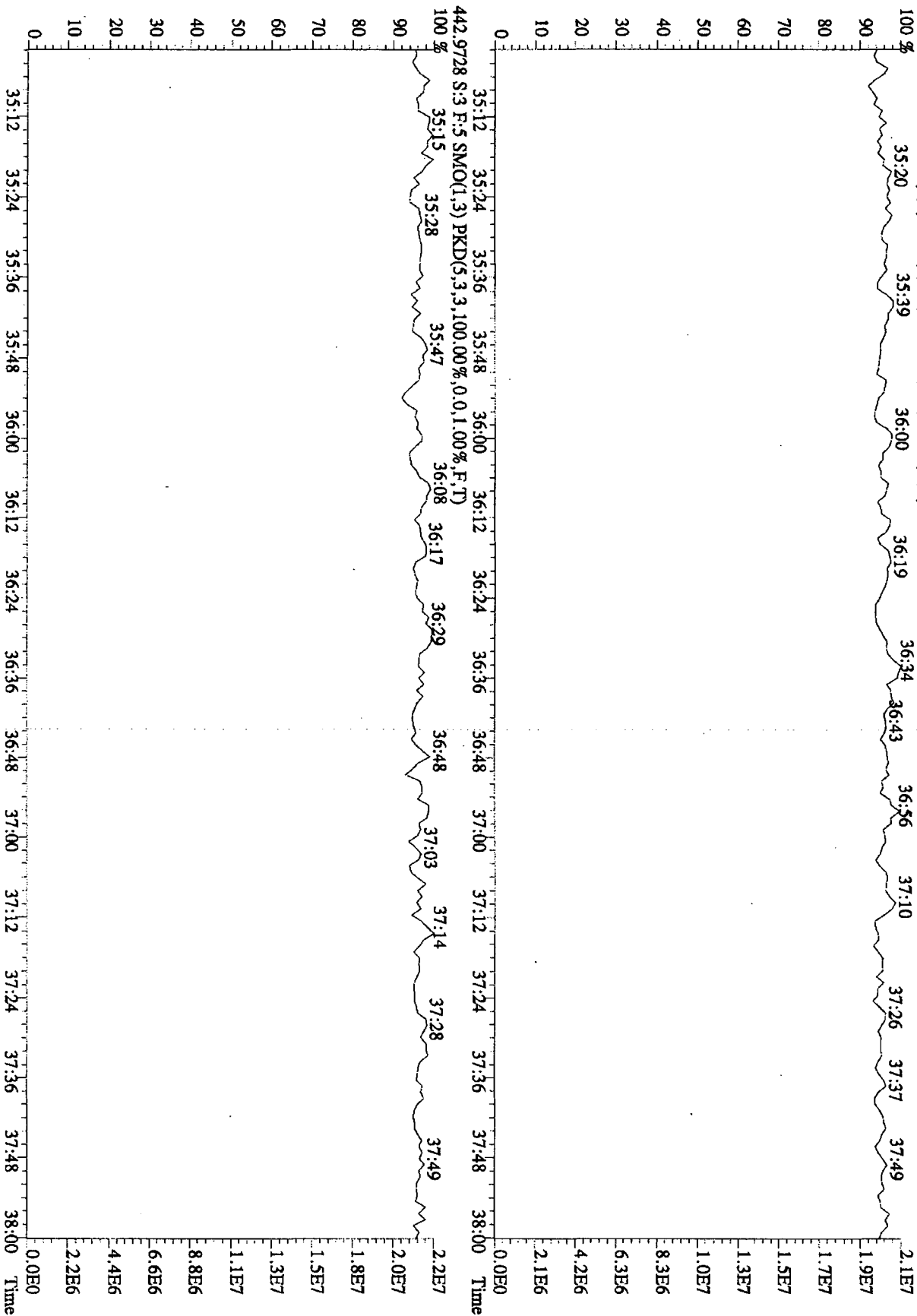
File:290C101D5 #1-301 Acq:29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1029A :CS3 10DXN505 Exp.:DIOXINRES



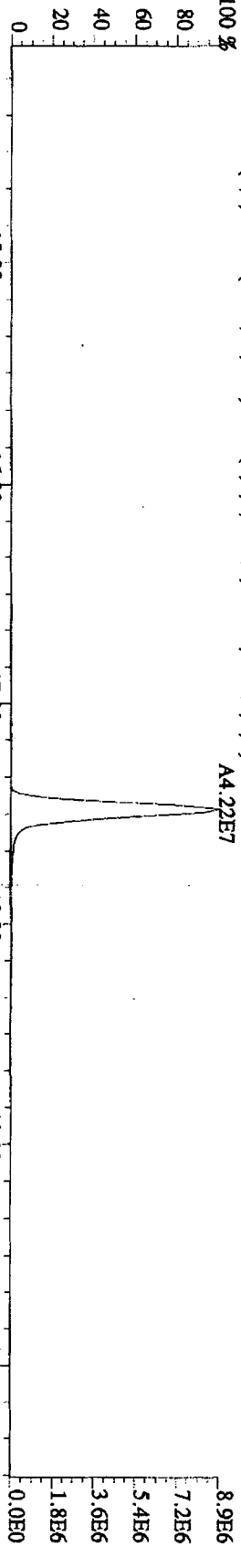
File: 29OCT10ID5 #1-202 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage STR 70SE
 Sample#3 Text: ST1029A :CS3 10DXNS05 Exp: DIOXINRES
 430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 32:08 32:26 32:44 33:03 33:17 33:37 34:15 34:33 34:46 3:3E7



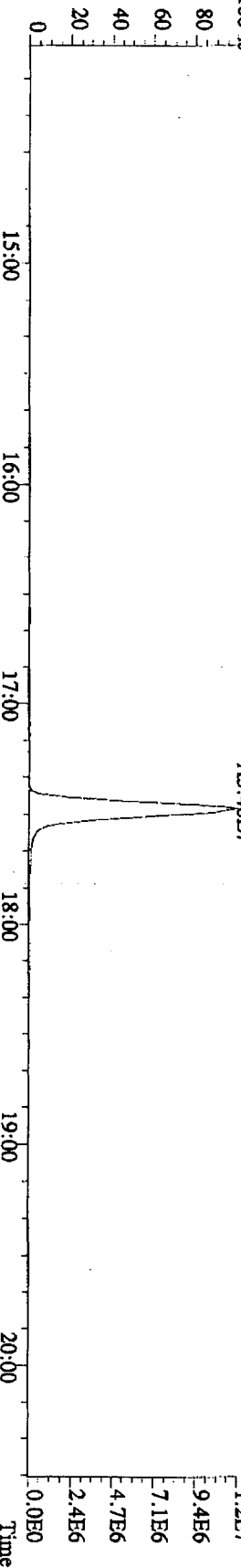
File: 29OCT10ID5 #1-196 Acq: 29-OCT-2010 07:04:39 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1029A : CS3 10DXN505 Exp: DIOXINRES
 454.9728 S:3 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



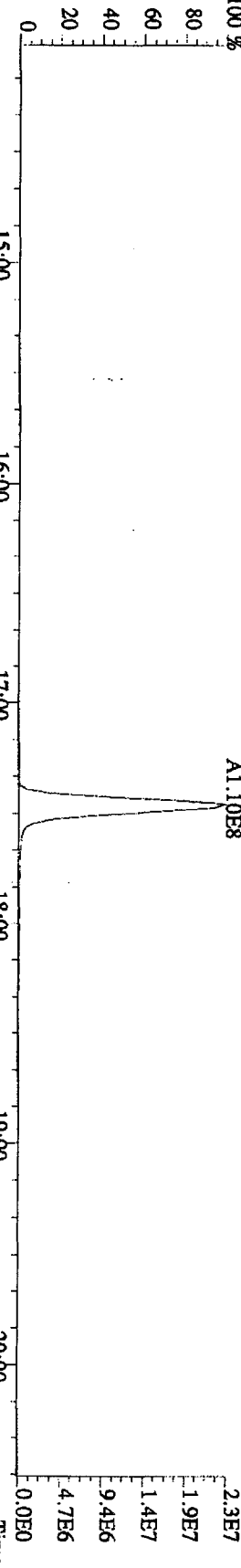
File: 290C101ID5 #1-382 Acq: 29-OCT-2010 09:55:59 GC EI + Voltage SIR 70SE
 Sample#7 Tex: ST1029E :CS4 10DXN506 Exp: DIOXINRES
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3932.0,1.00%,F,T)



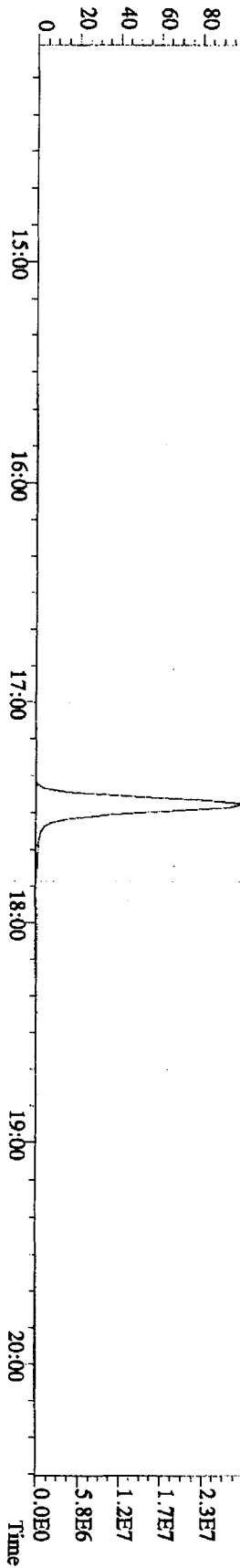
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6316.0,1.00%,F,T)



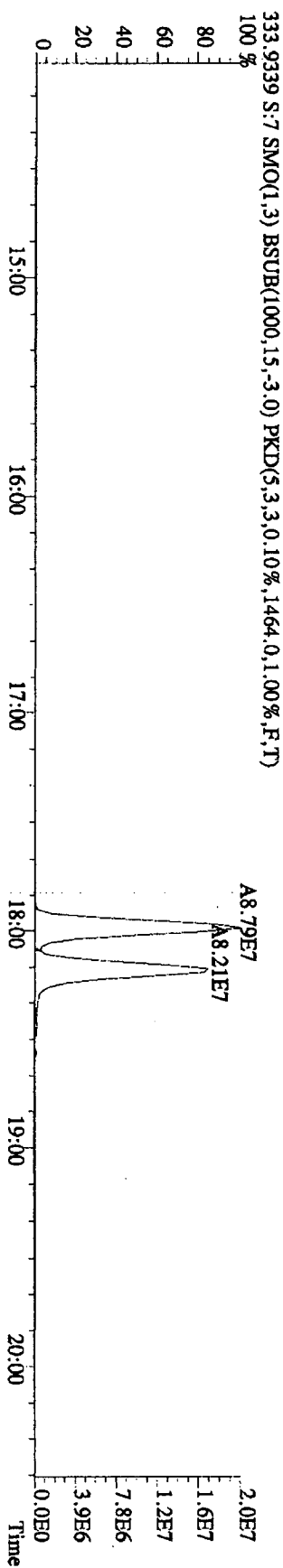
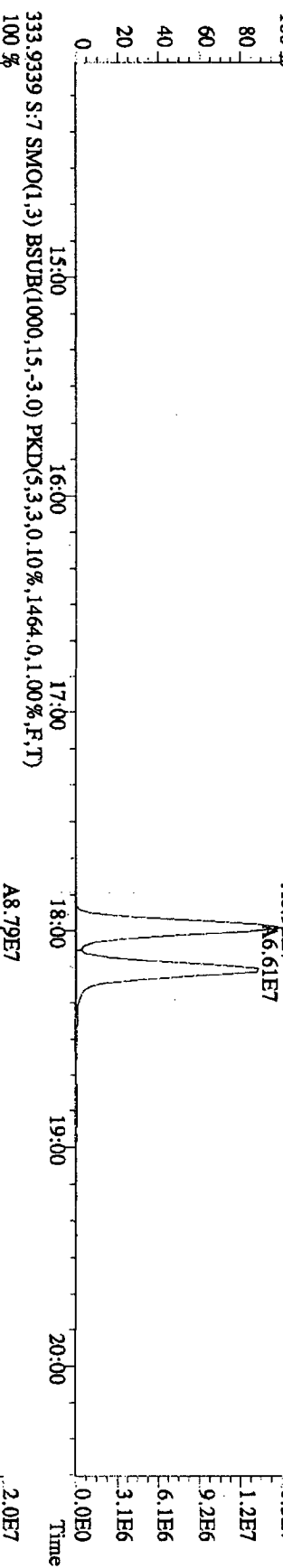
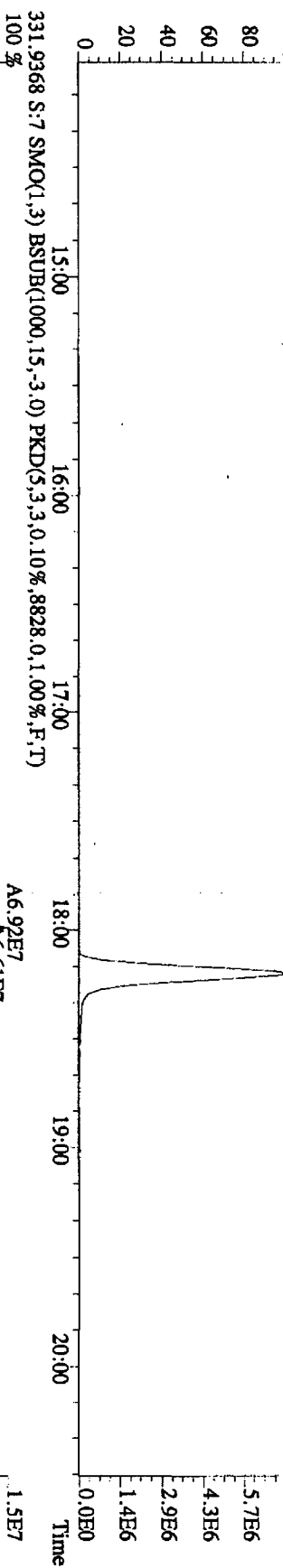
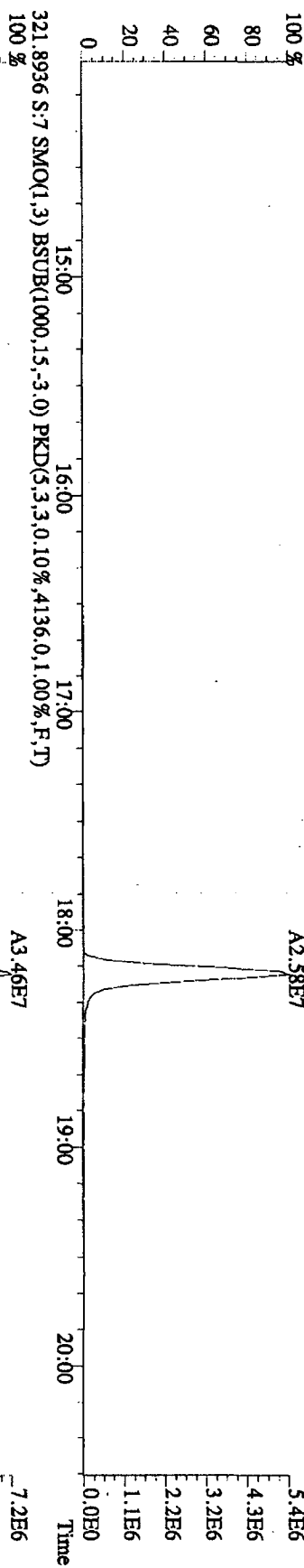
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8336.0,1.00%,F,T)



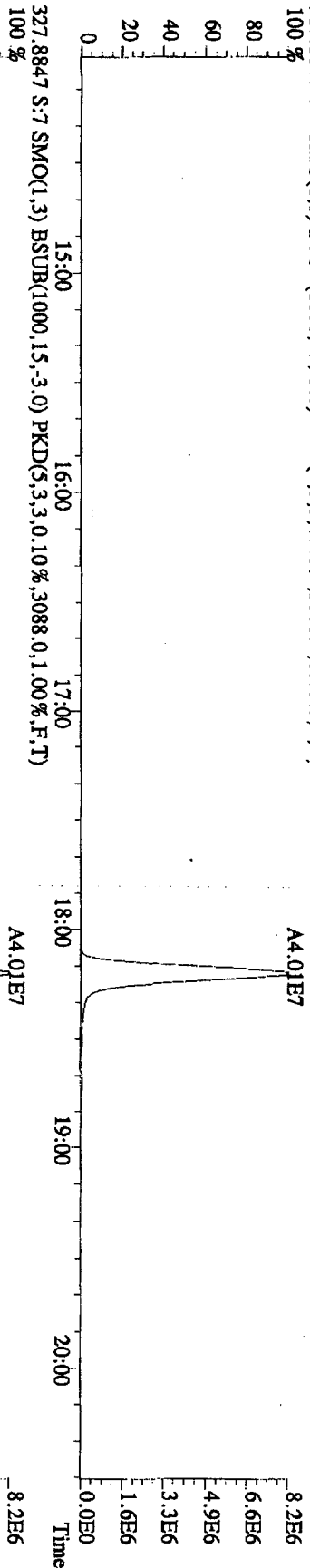
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8736.0,1.00%,F,T)



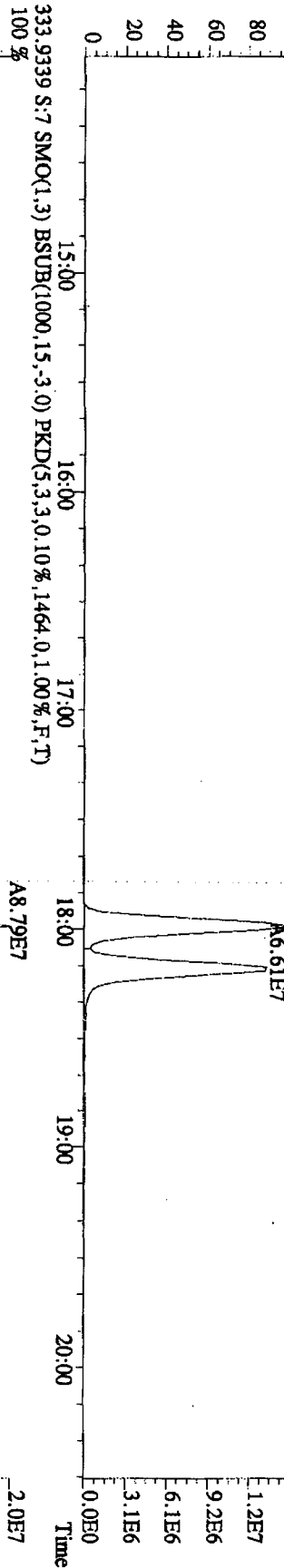
File:29OC101D5 #1-382 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage: SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINRES
 319.8965 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3608.0,1.00%,F,T)



File: 290C101D5 #1-382 Acq: 29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text: ST1029E : CS4 10DXN506 Exp: DIOXINRES
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3088,0,1,00%,F,T)
 100%



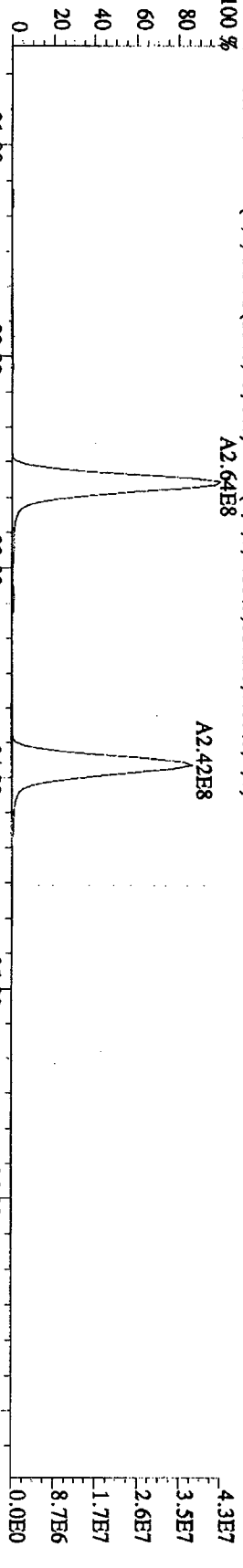
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8828,0,1,00%,F,T)
 100%



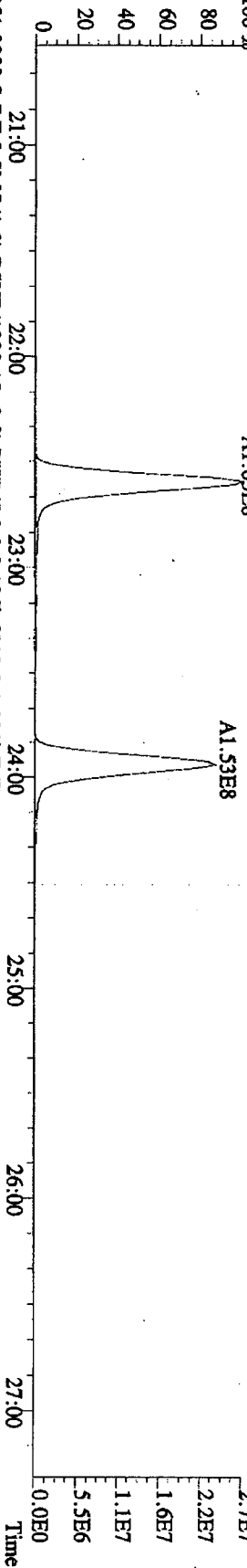
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1464,0,1,00%,F,T)
 100%



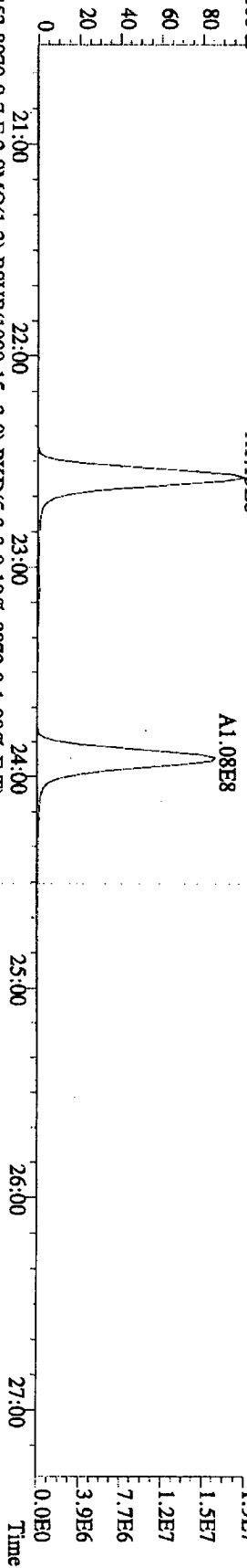
File:29OC101ID5 #1-423 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINES
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6172,0,1,00%,F,T)
 100 %



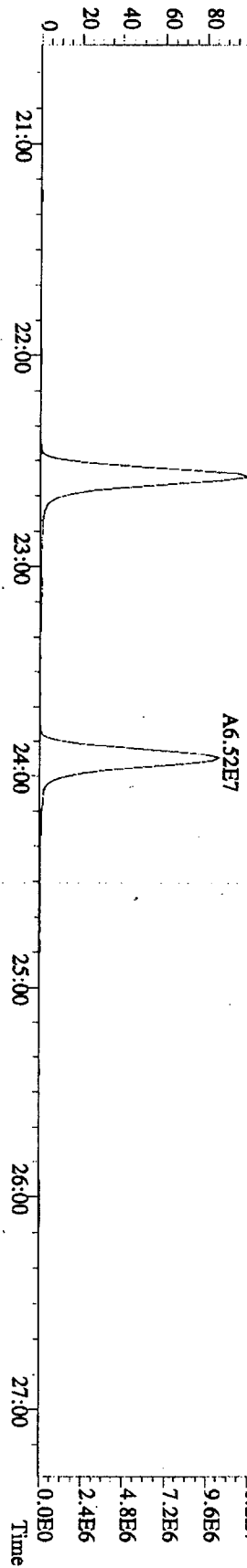
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8416,0,1,00%,F,T)
 100 %



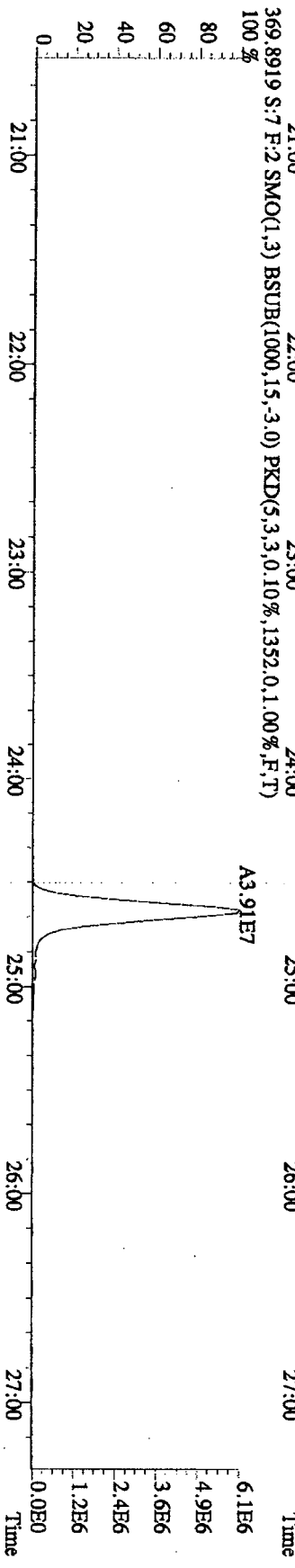
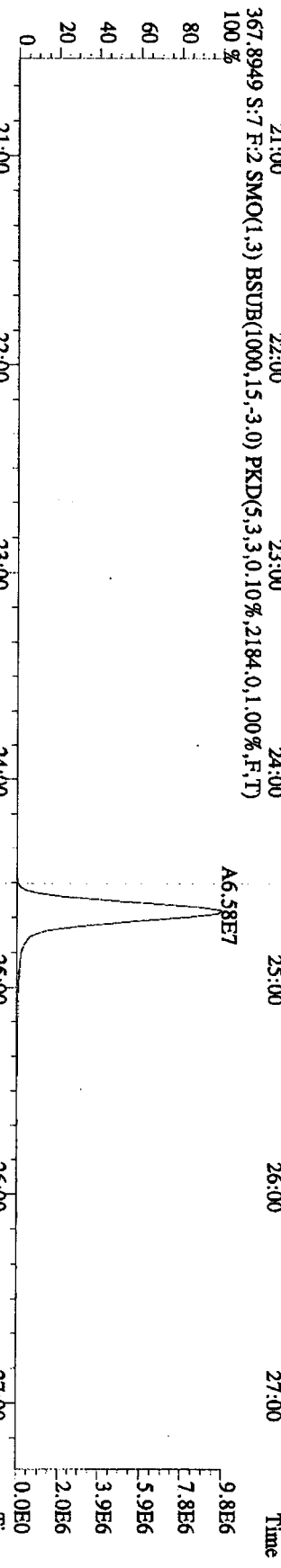
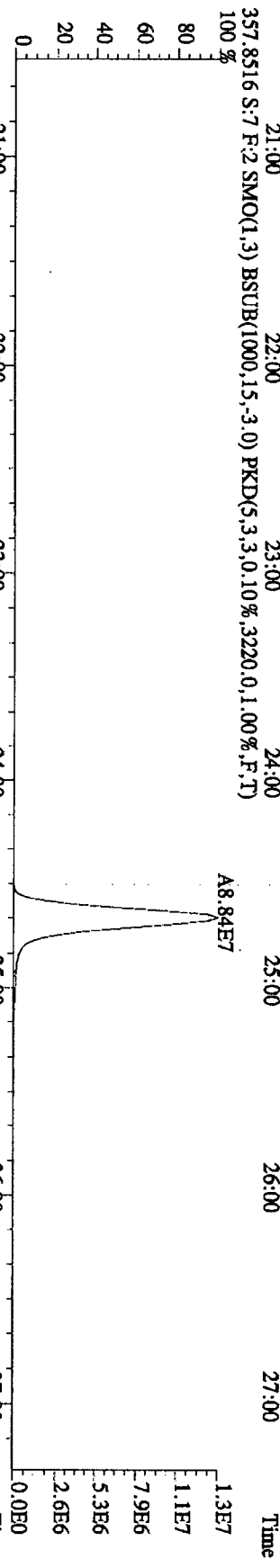
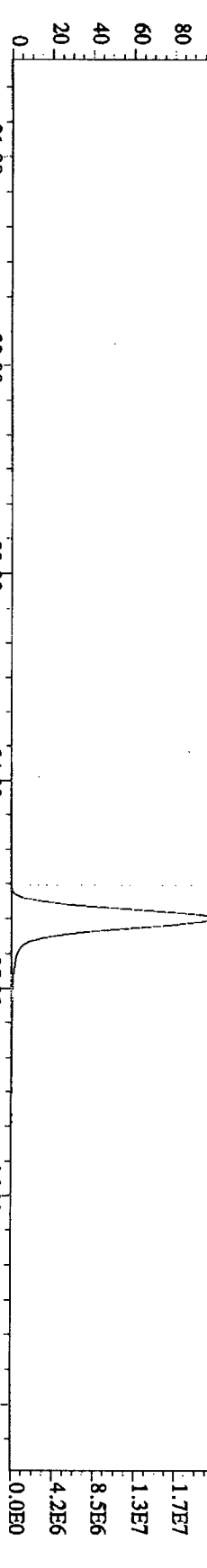
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5912,0,1,00%,F,T)
 100 %



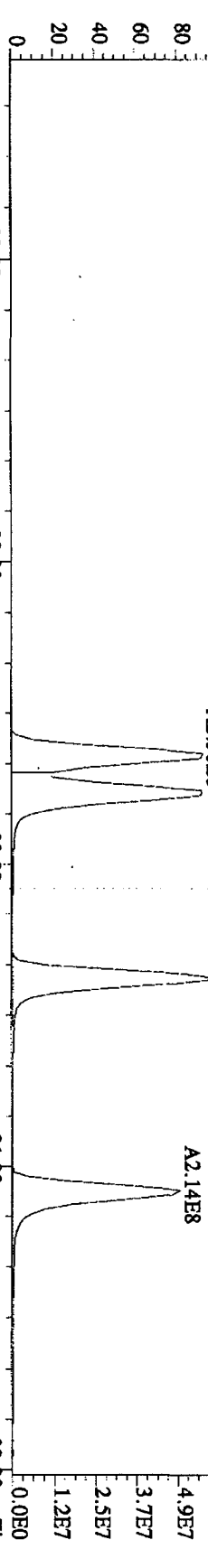
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8872,0,1,00%,F,T)
 100 %



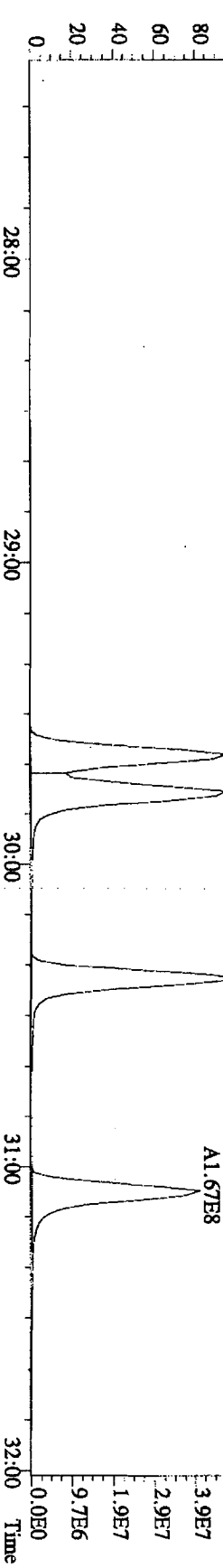
File:29OCT10ID5 #1-423 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINRES
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,5044,0.1,00%,F,T)
 100 %



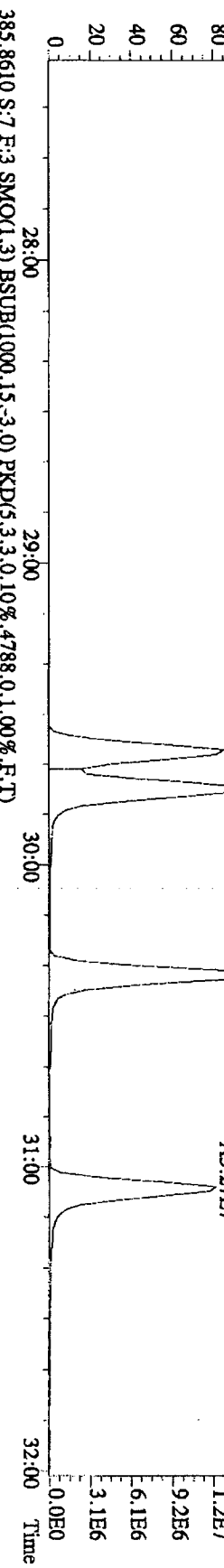
File:290C101D5 #1-301 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINES
 373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4372.0,1.00%,F,T)
 100 %



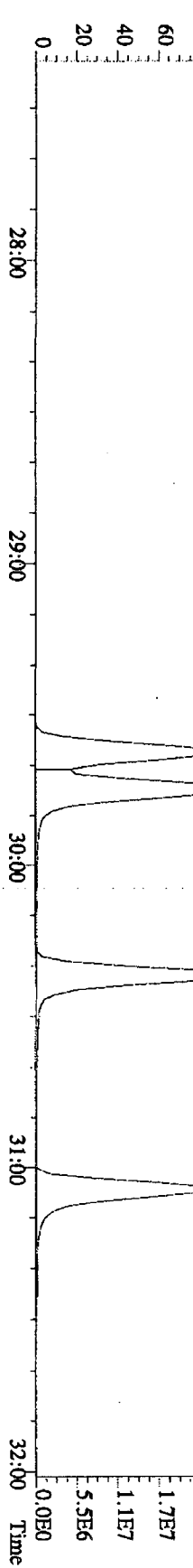
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2784.0,1.00%,F,T)
 100 %



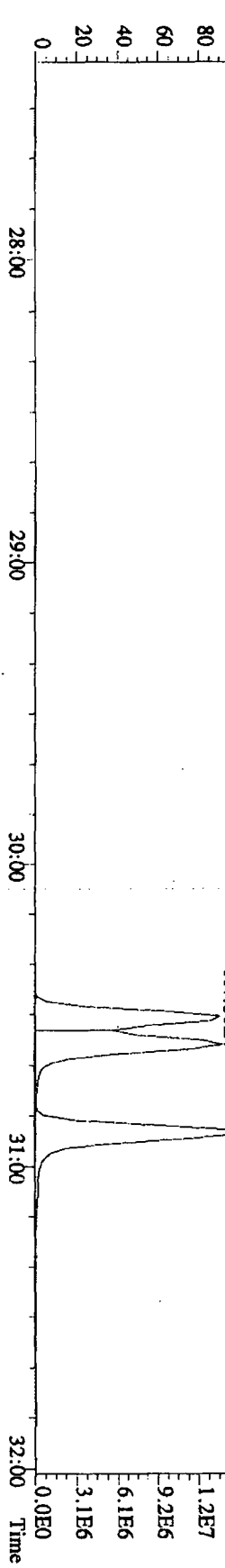
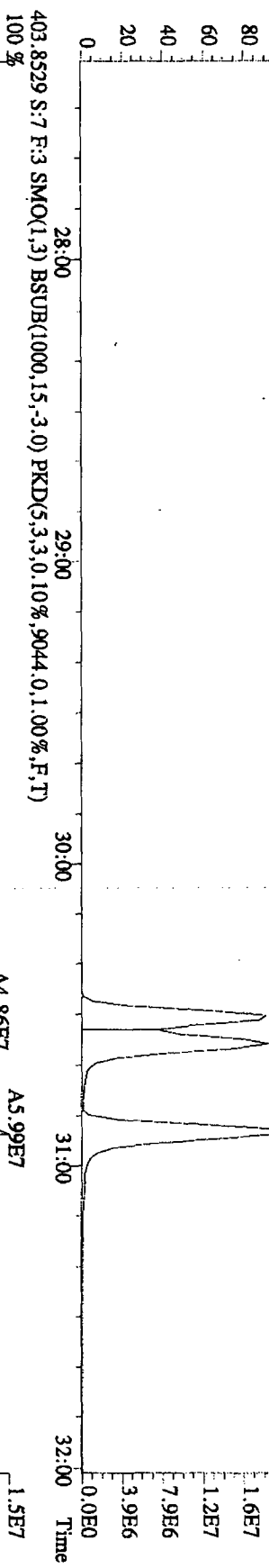
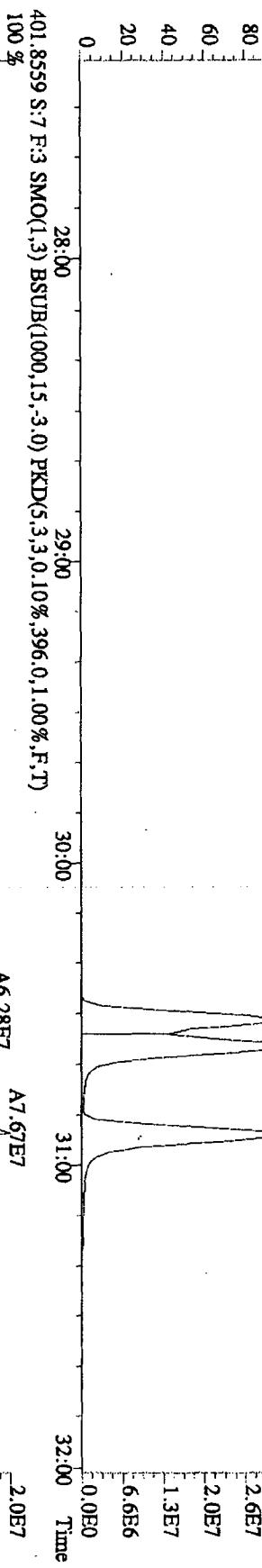
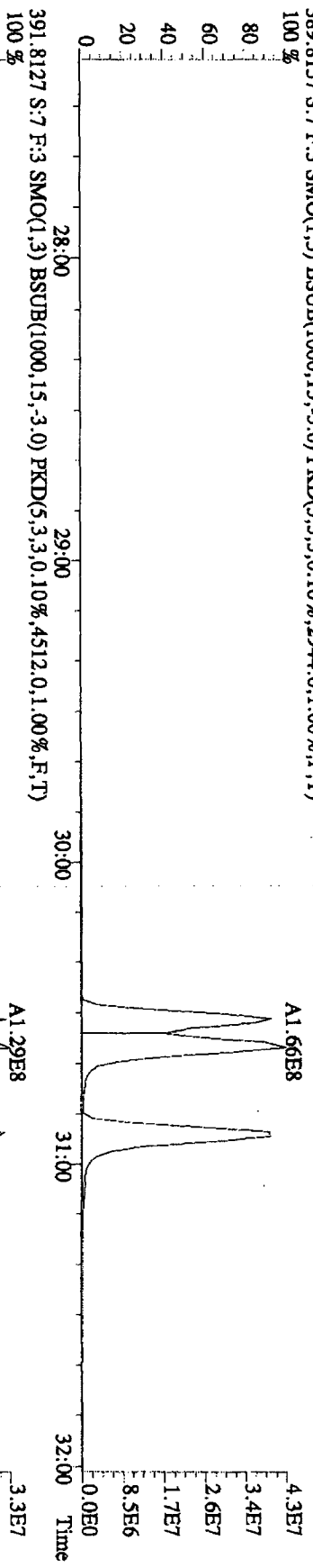
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2840.0,1.00%,F,T)
 100 %



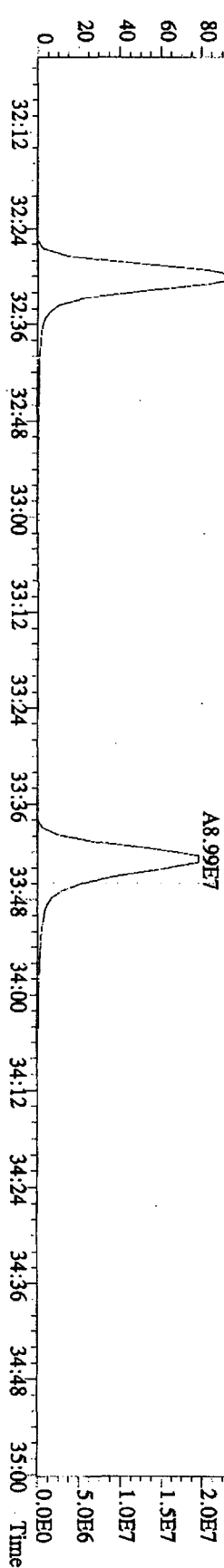
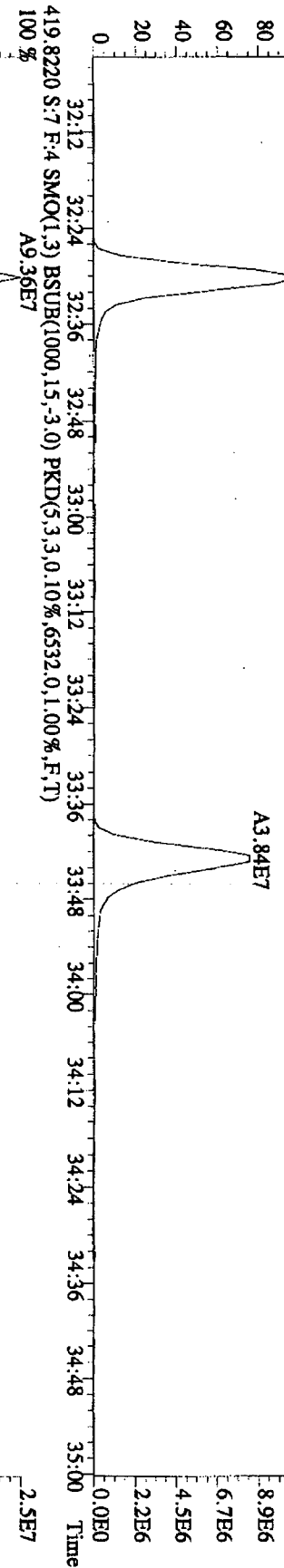
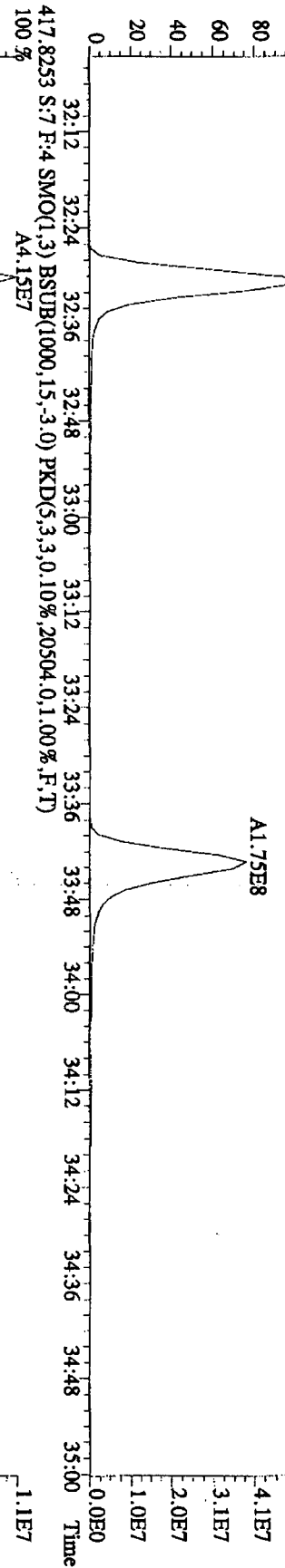
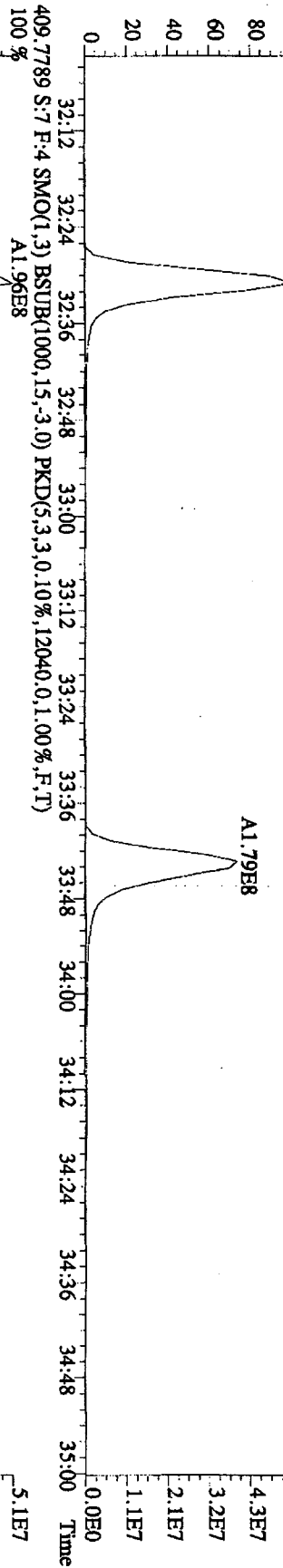
385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4788.0,1.00%,F,T)
 100 %



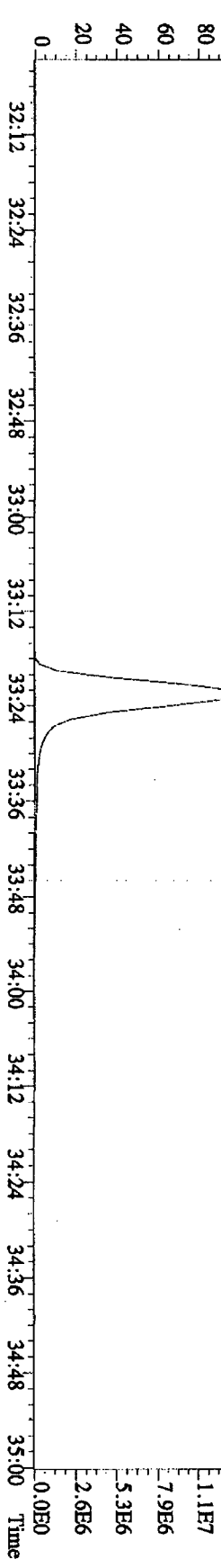
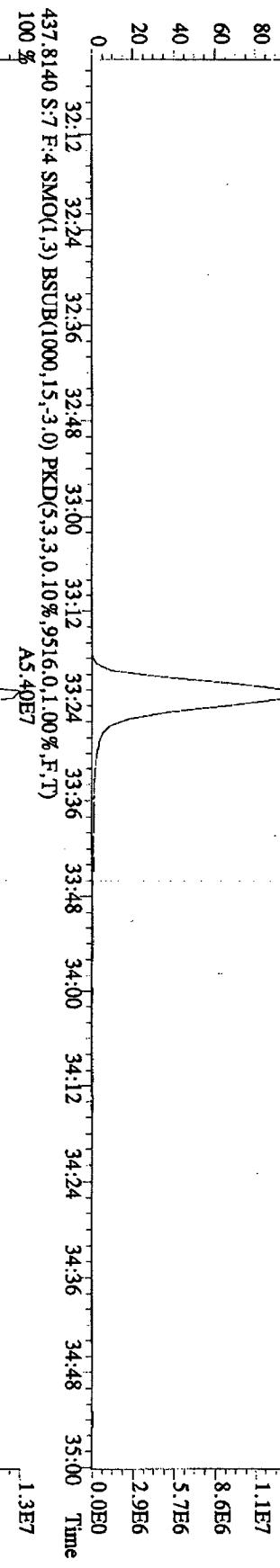
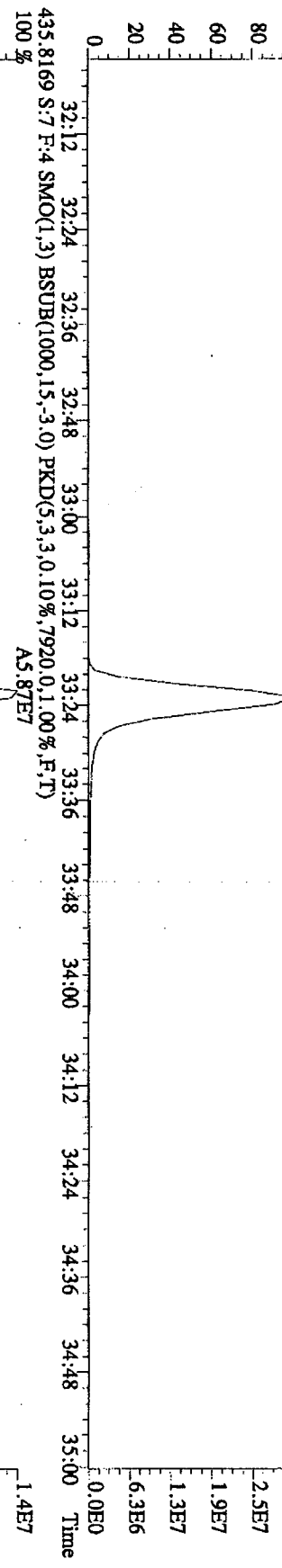
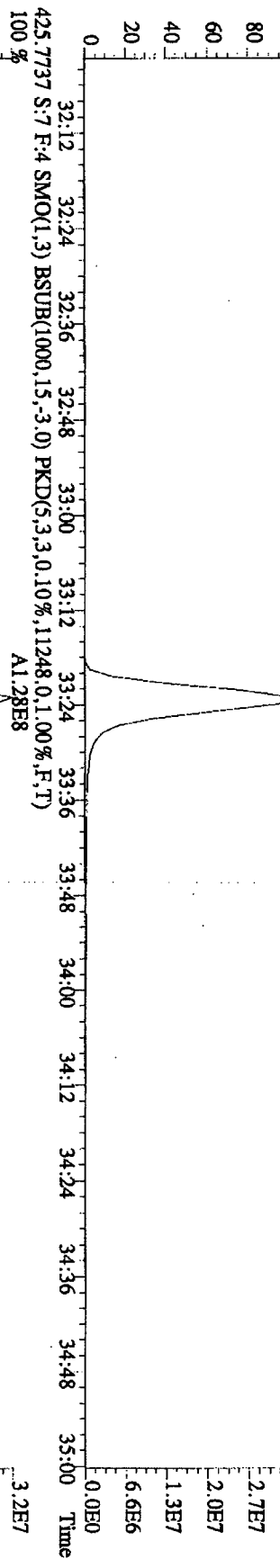
File: 29OCT101D5 #1-301 Acq: 29-OCT-2010 09:55:59 GC HI+ Voltage SIR 70SE
 Sample#7 Text: ST11029E :CS4 10DXN506 Exp: DIOXINRES
 389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2944,0,1,00%,F,T)
 100%



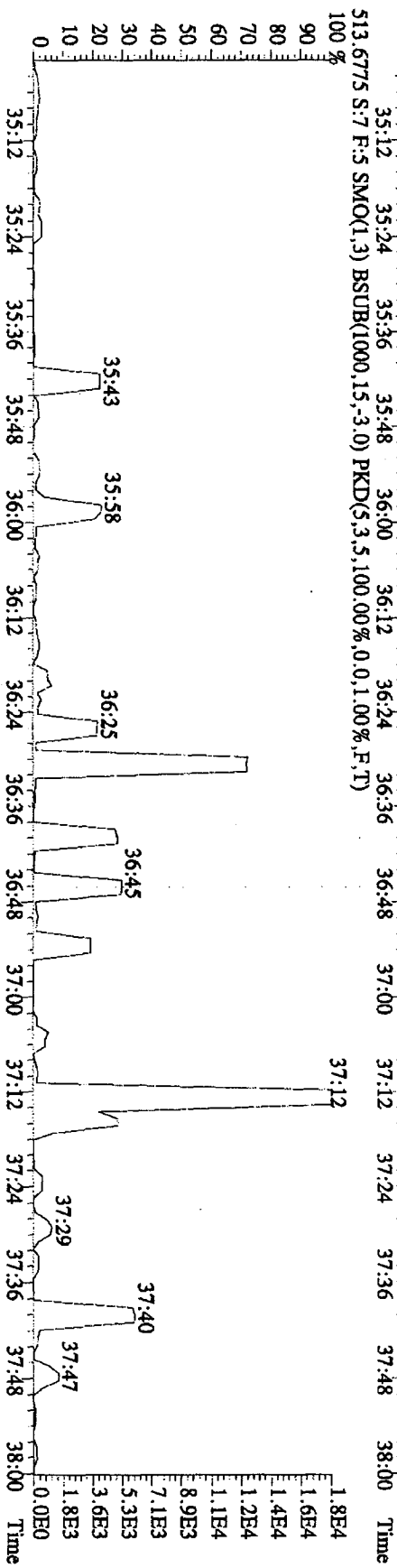
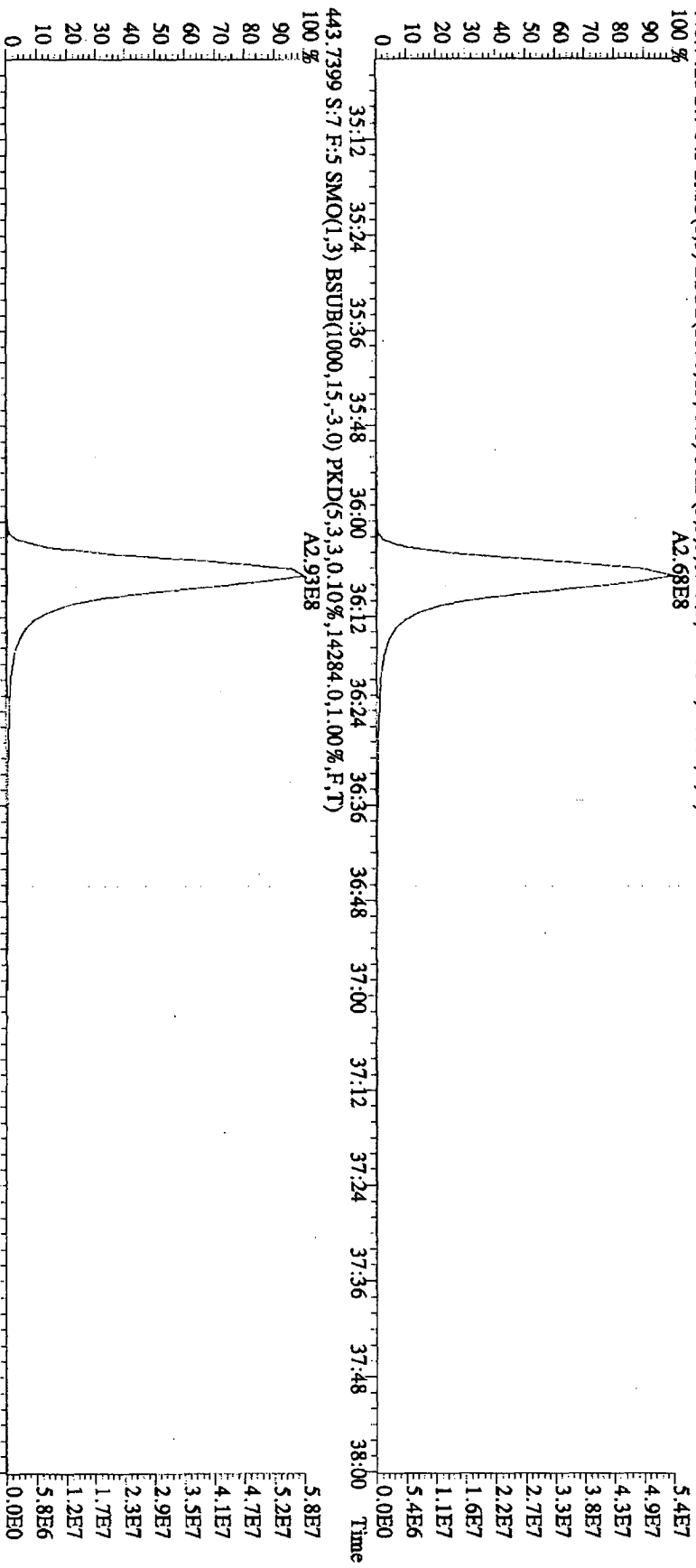
File:29QC101D5 #1-202 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINRES
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,40116,0,1,00%,F,T)
 100 %



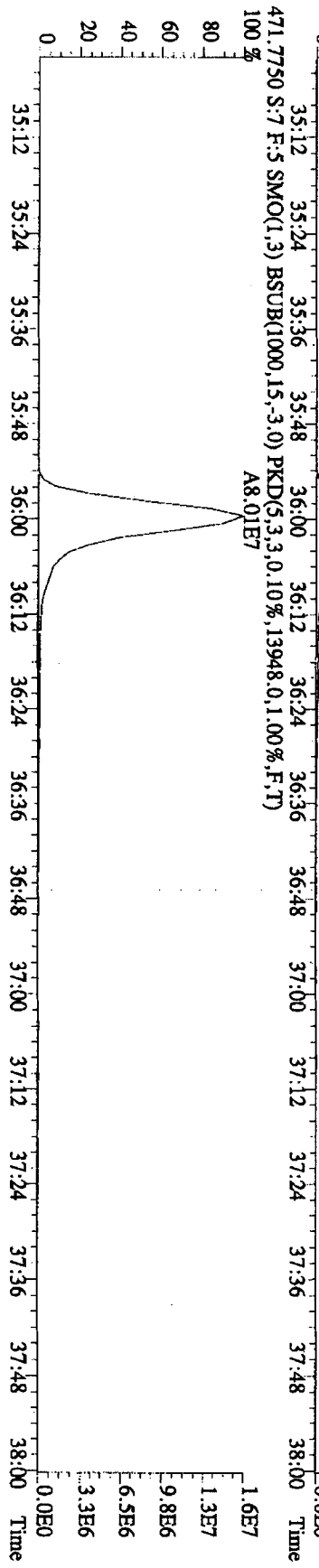
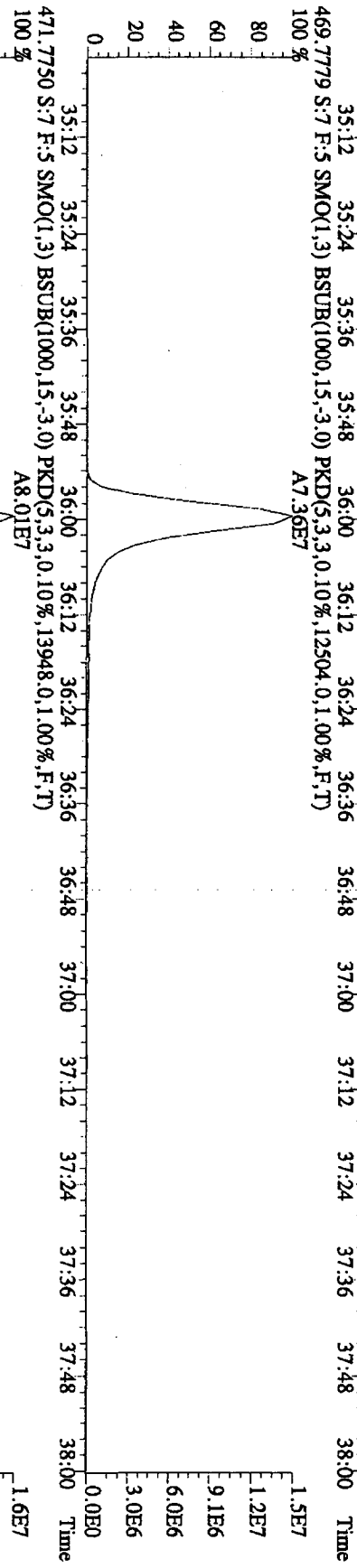
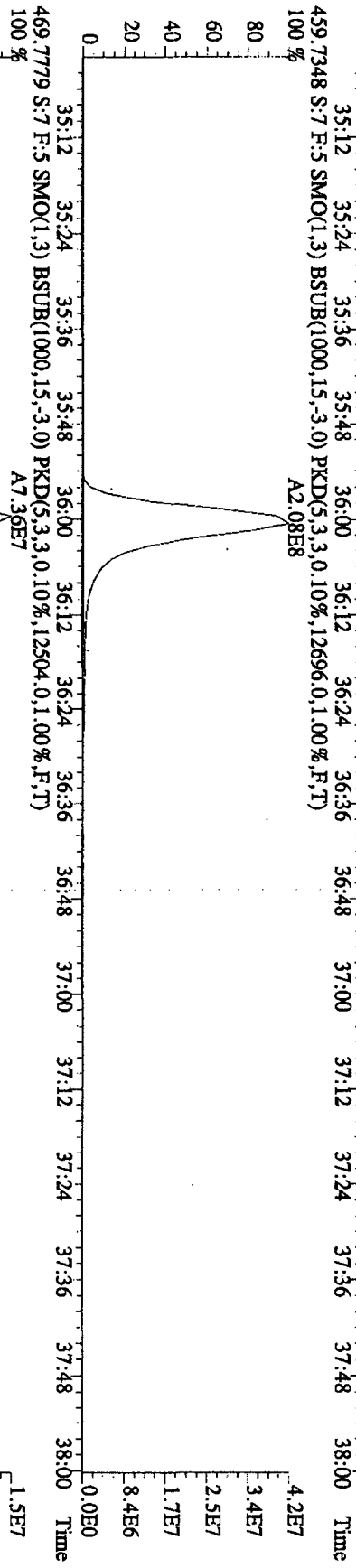
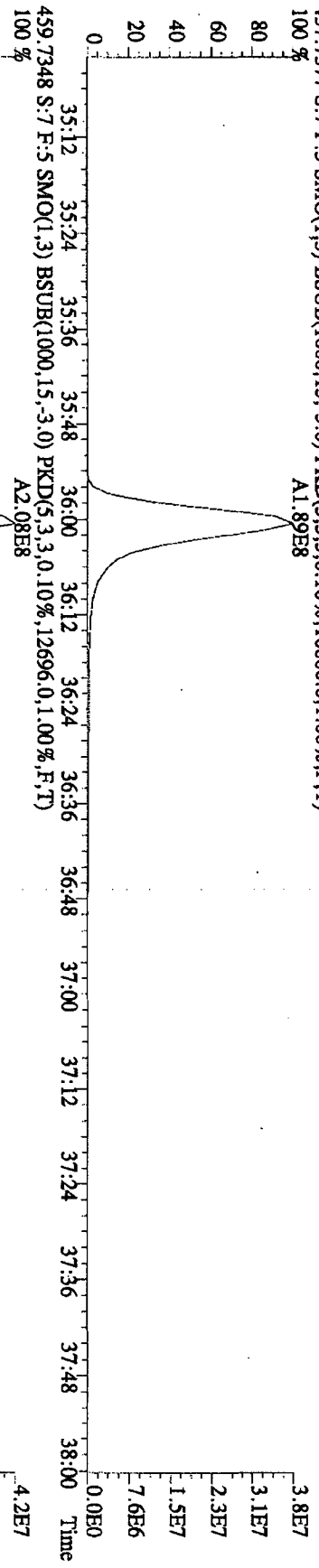
File:29OC101D5 #1-202 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXNS06 Exp:DIOXINRES
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11248,0,1,00%,F,T)
 100% AI.35E8



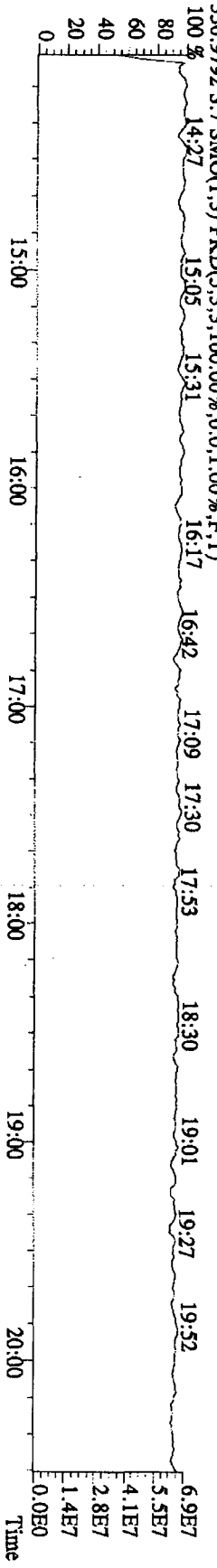
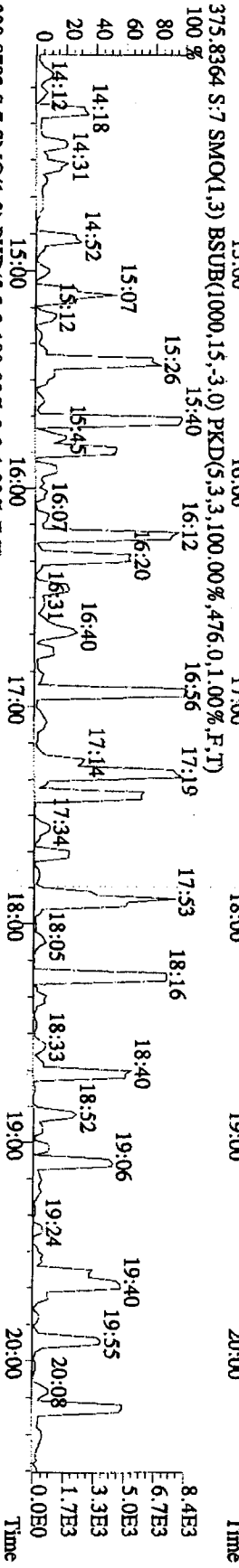
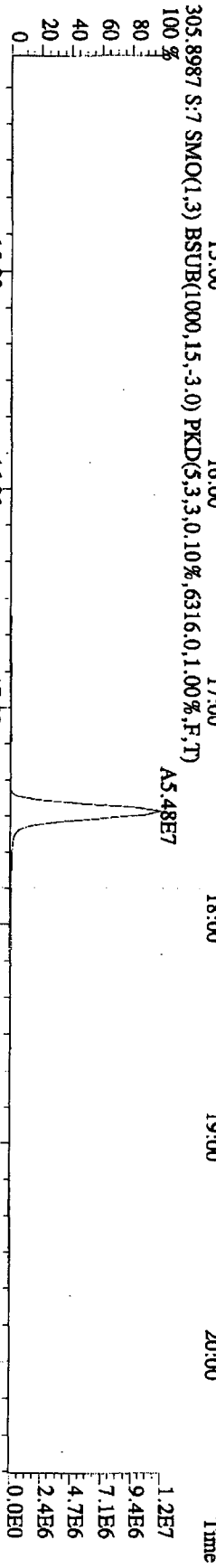
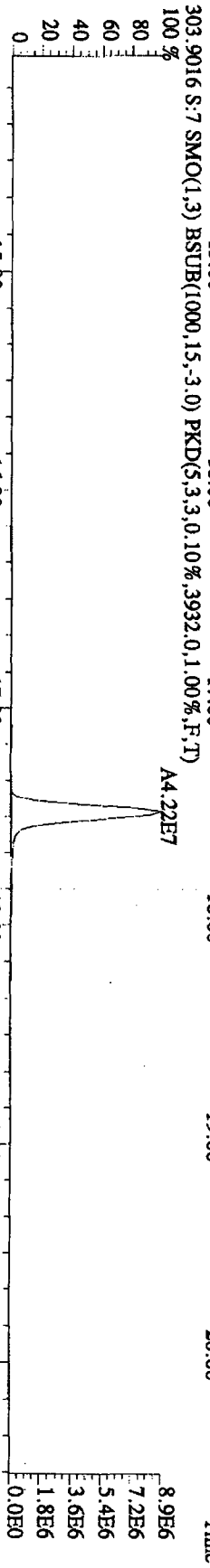
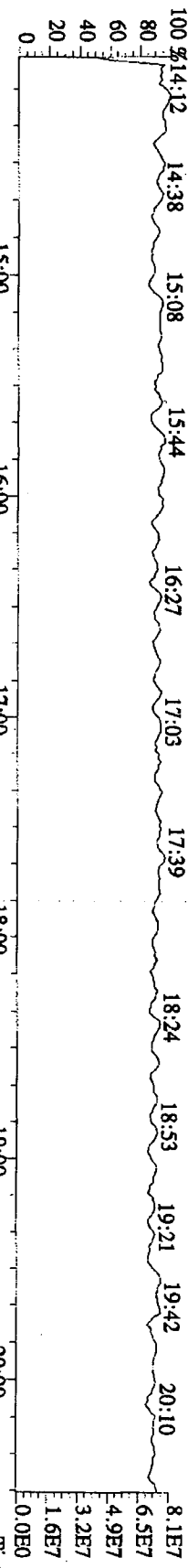
File: 29OC101D5 #1-196 Acq: 29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text: ST1029E :CS4 10DXN506 Exp: DIOXINRES
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,16456,0.1,00%,F,T)
 100% A2.698E8



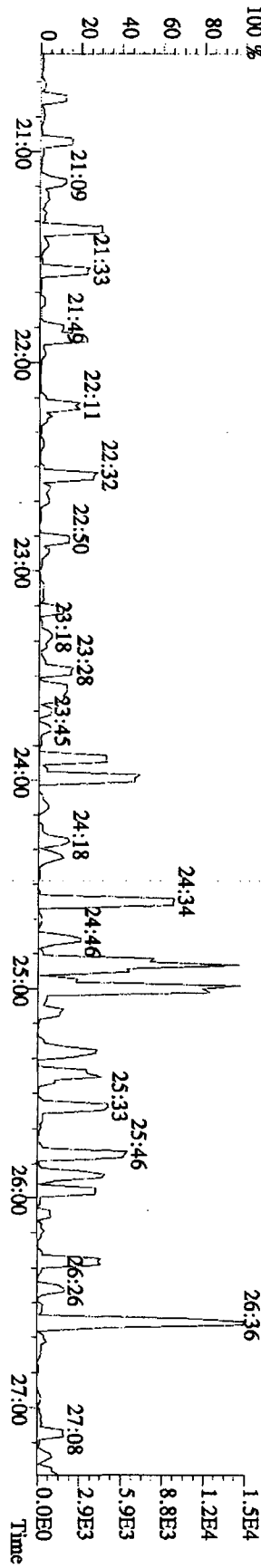
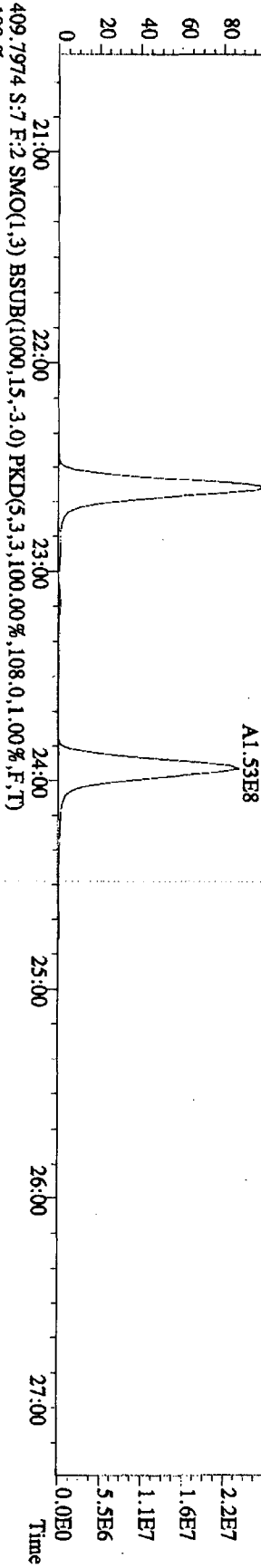
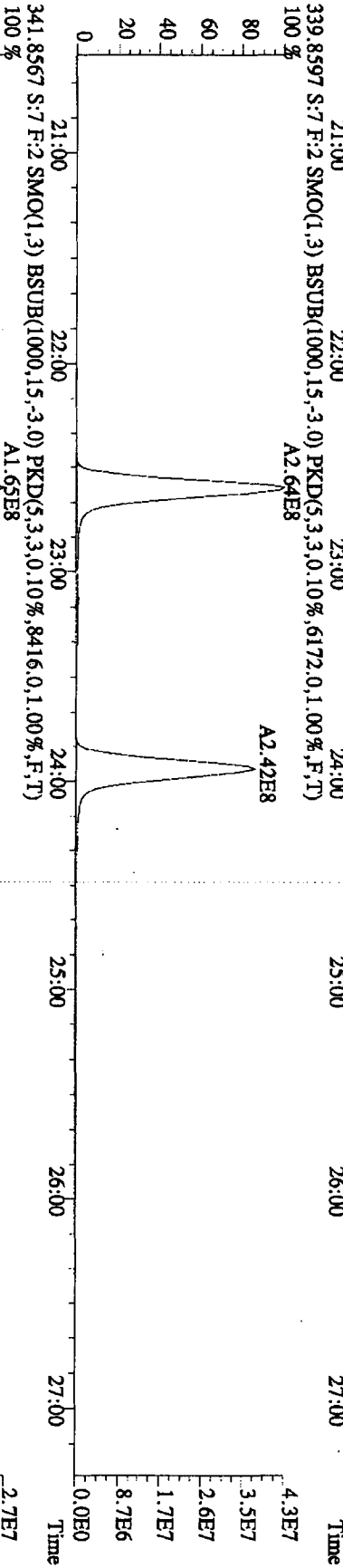
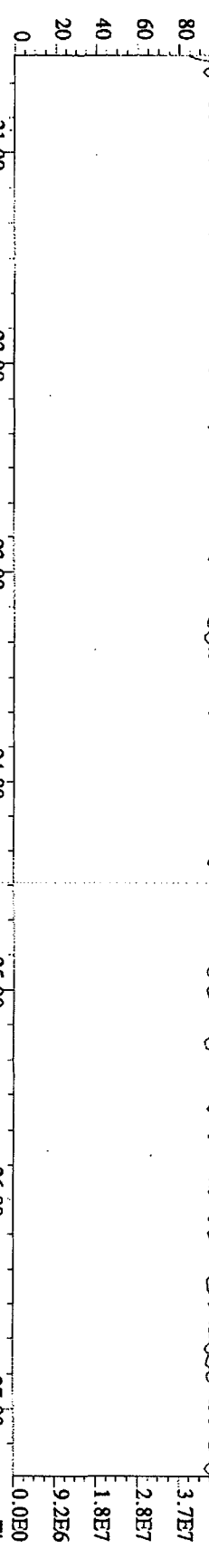
File:290C101D5 #1-196 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXN506 Exp:DIOXINRES
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,16800,0,1,00%,F,T)
 100 % A1.89E8



File:29OC101D5 #1-382 Acq:29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029E :CS4 10DXN506 Exp:DIOXINRES

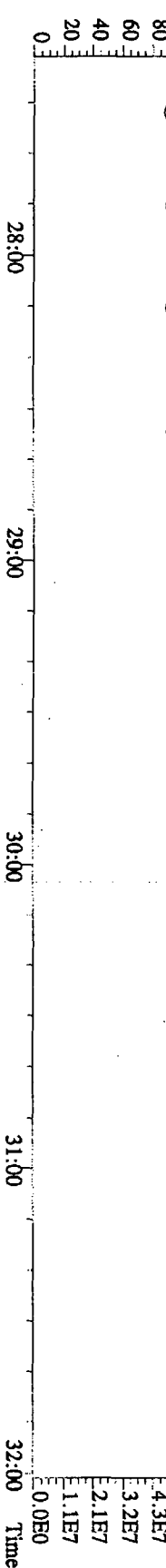
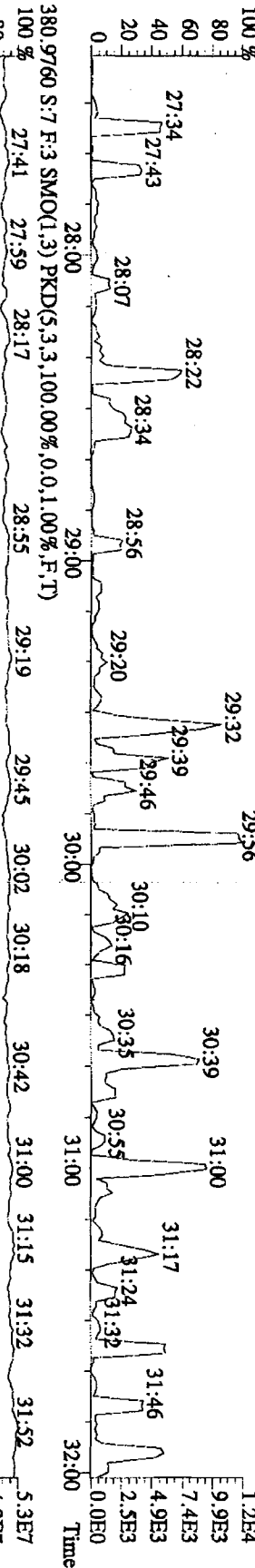
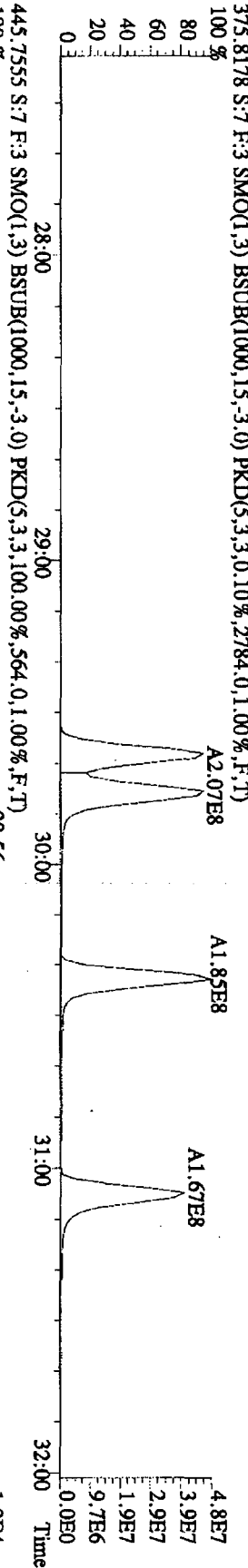
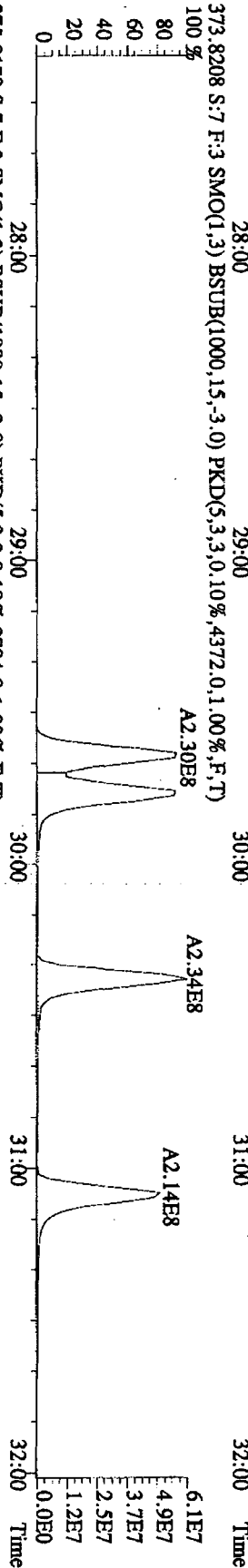
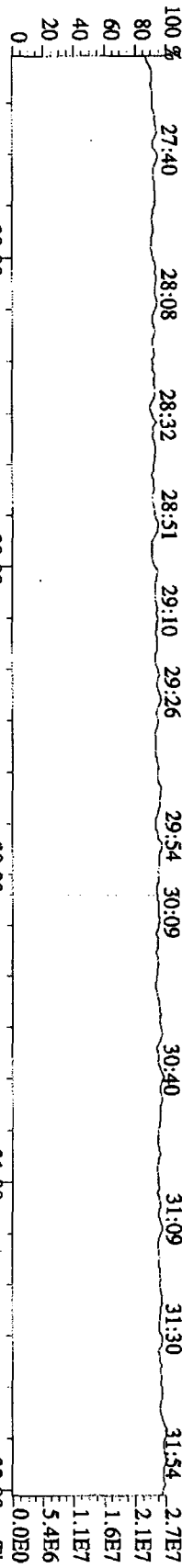


File: 29OCT10ID5 #1-423 Acq: 29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text: ST1029E :CS4 10DXN506 Exp: DIOXINRES
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 20:44 21:05 21:43 22:26 23:08 23:43 24:04 24:50 25:12 25:40 26:18 27:06

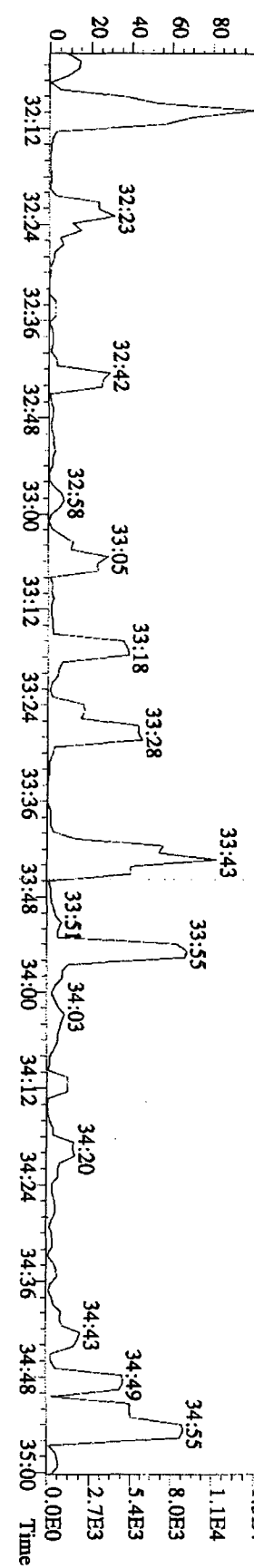
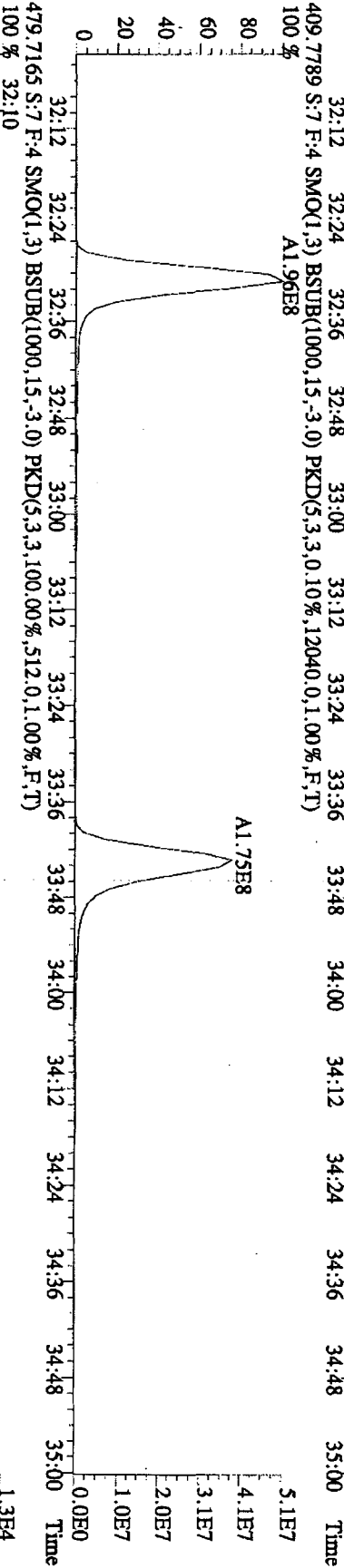
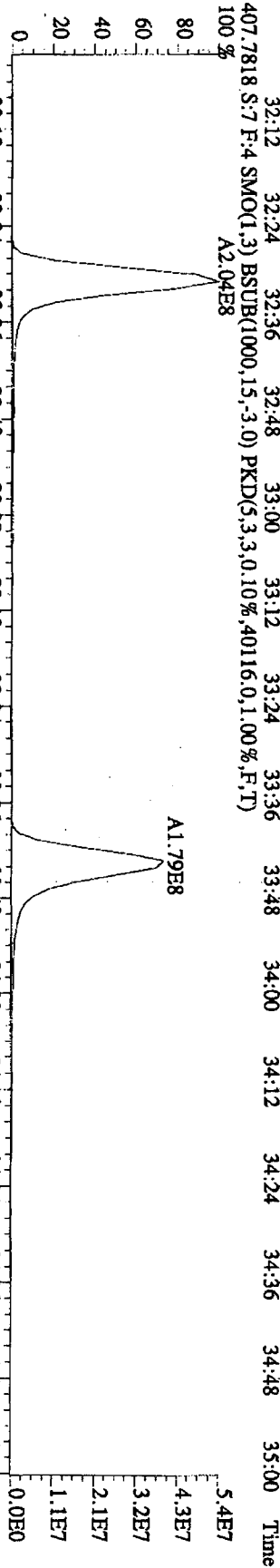
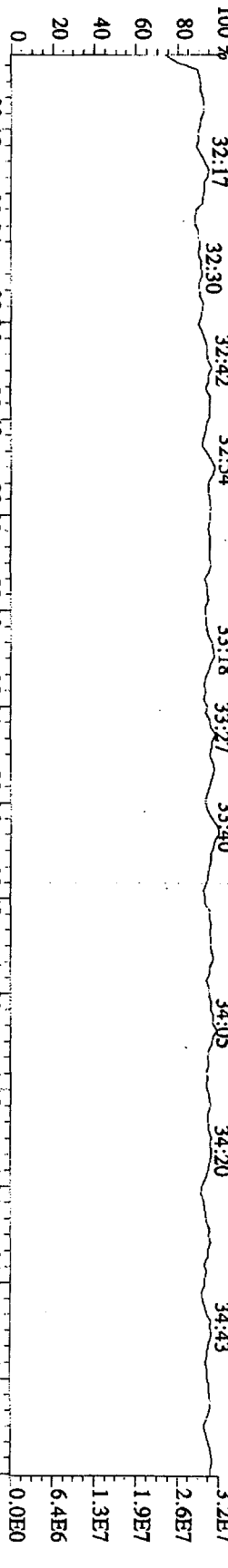


File: 290C101D5 #1-301 Acq: 29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE

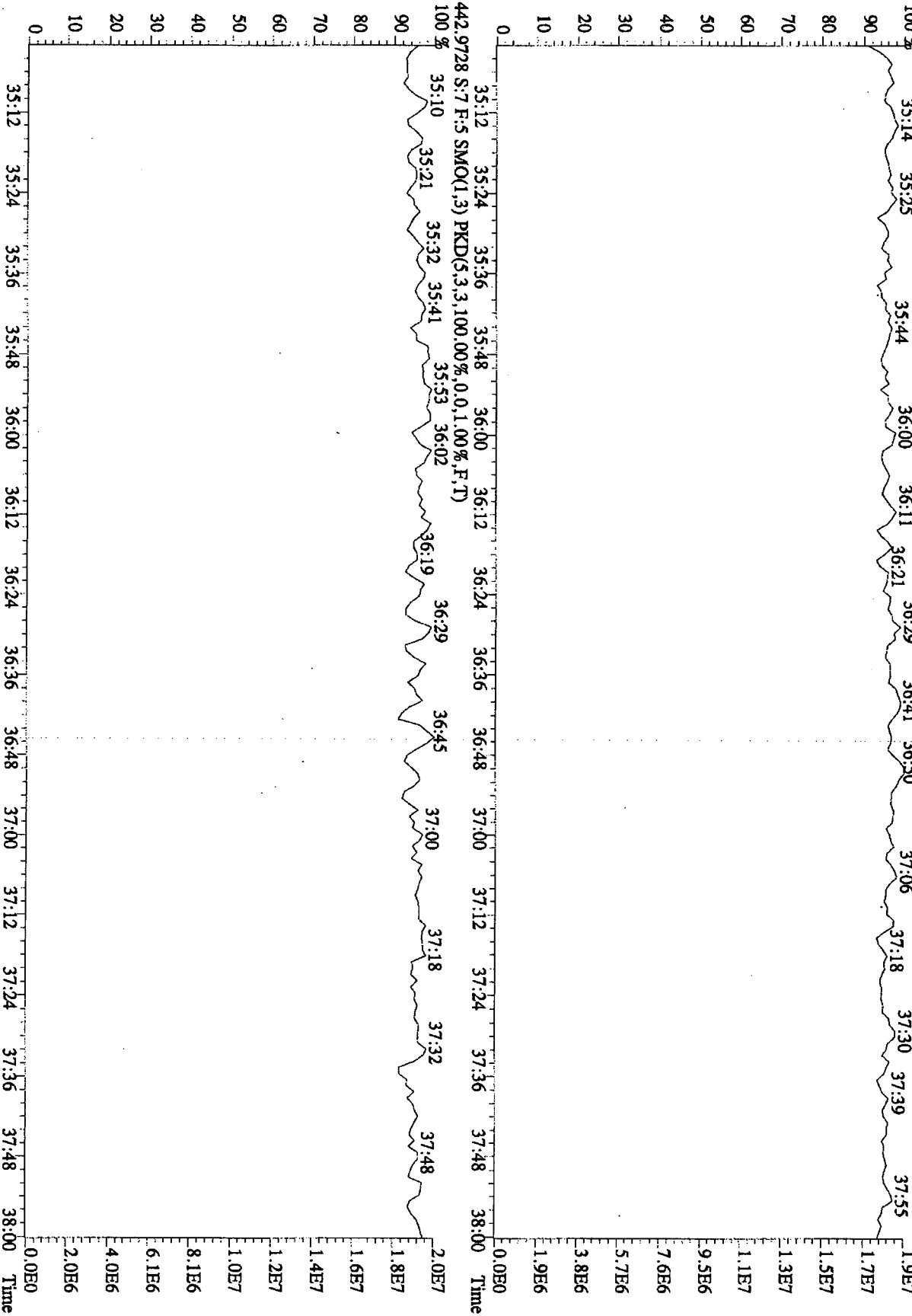
Sample#7 Text: ST1029E :CS4 10DXN506 Exp: DIOXINRES



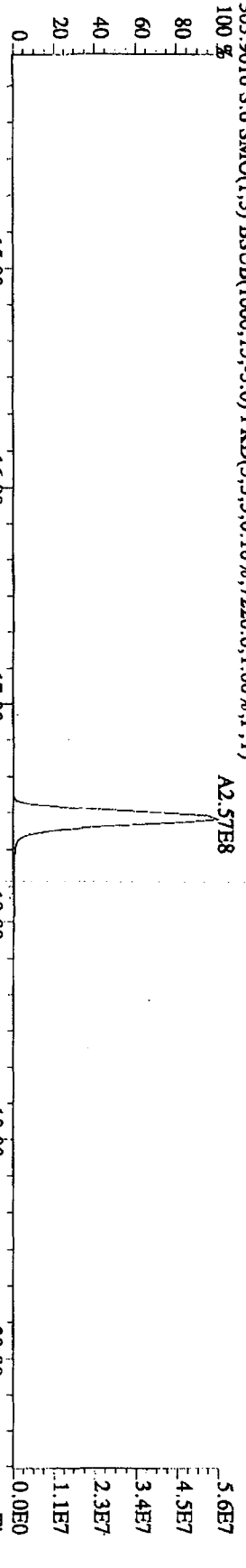
File: 290C101D5 #1-202 Acq: 29-OCT-2010 09:55:59 GC EI + Voltage SIR 70SE
 Sample#7 Text: ST1029E :CS4 10DXN506 Exp: DIOXINRES
 430.9728 S:7 F:4 SMO(1.3) PKD(5.3,3.100,0.0%,0.1,1.00%,F,T)



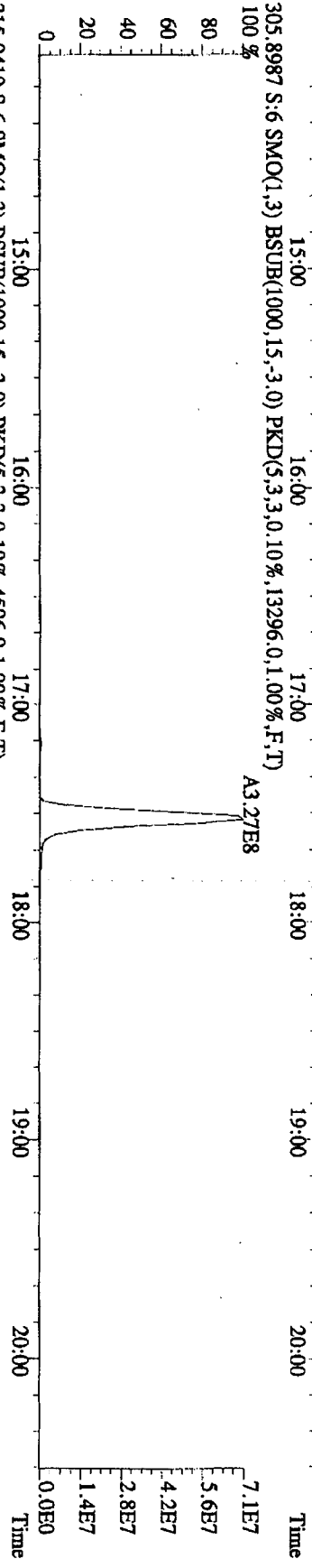
File: 290C101D5 #1-196 Acq: 29-OCT-2010 09:55:59 GC EI+ Voltage SIR 70SE
 Sample#7 Text: ST1029E :CS4 10DXN506 Exp: DIOXINRES
 454.9728 S: 7 F: 5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



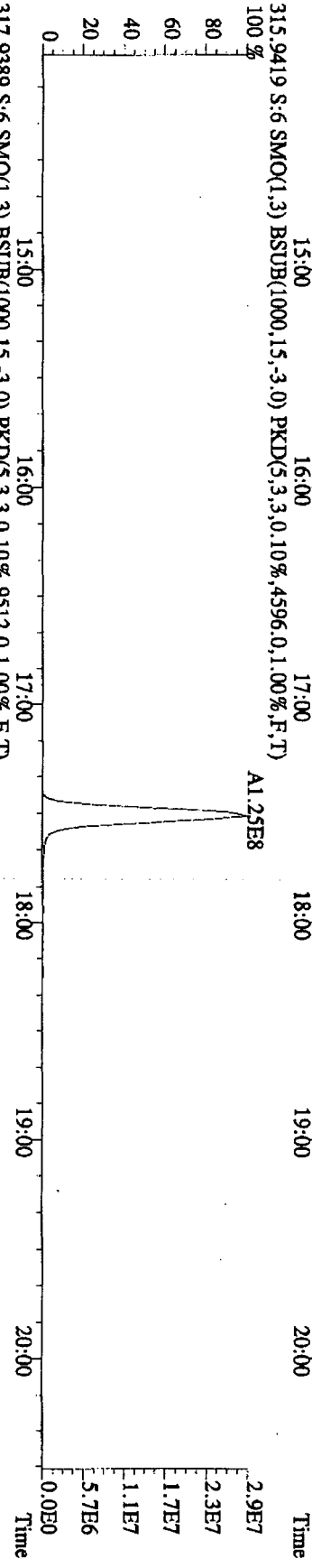
File: 2900C101D5 #1-382 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXINRES
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7220,0,1,00%,F,T)



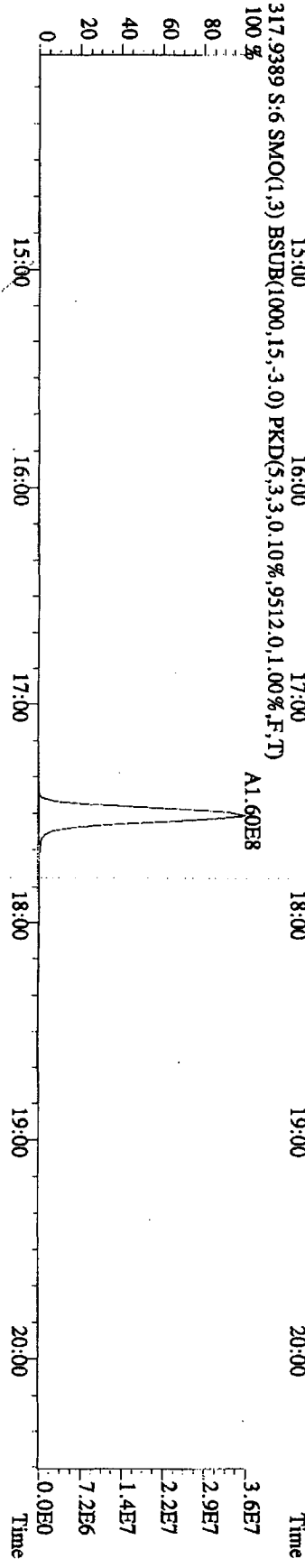
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,13296,0,1,00%,F,T)



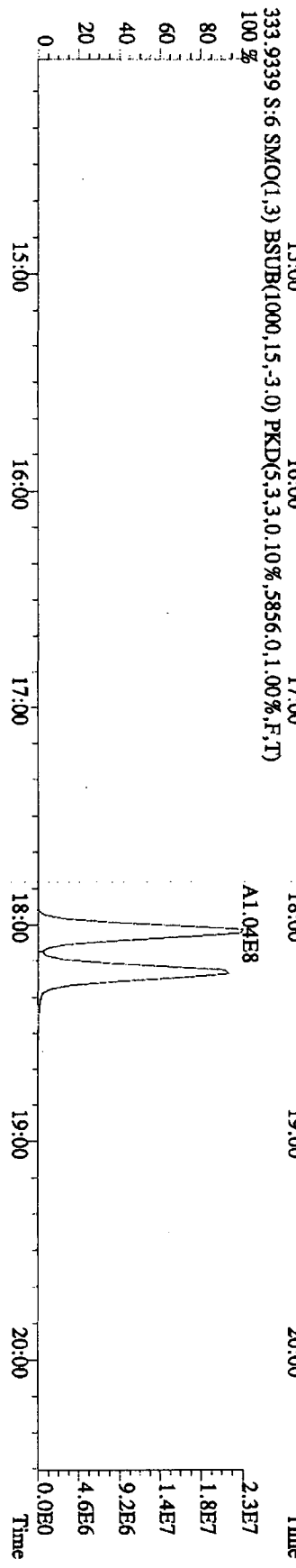
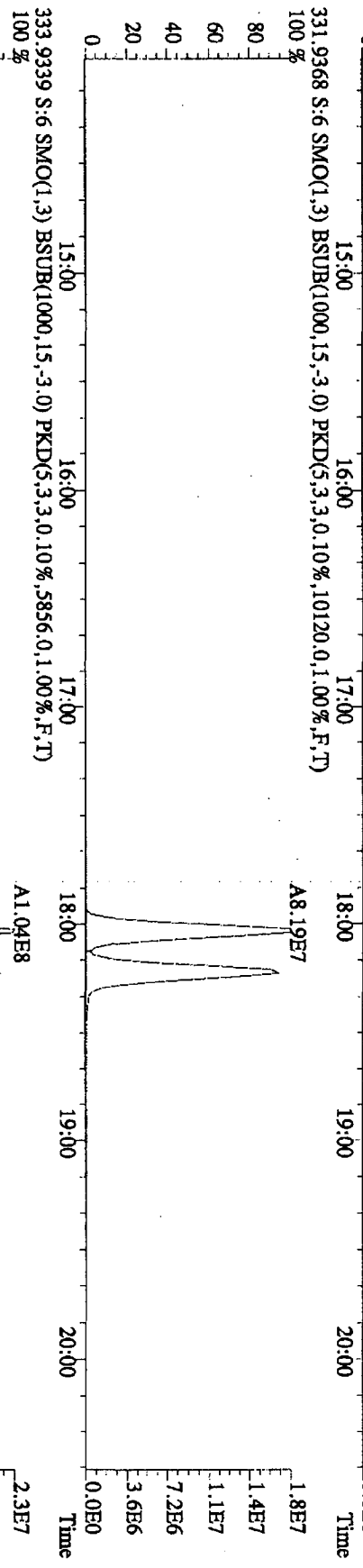
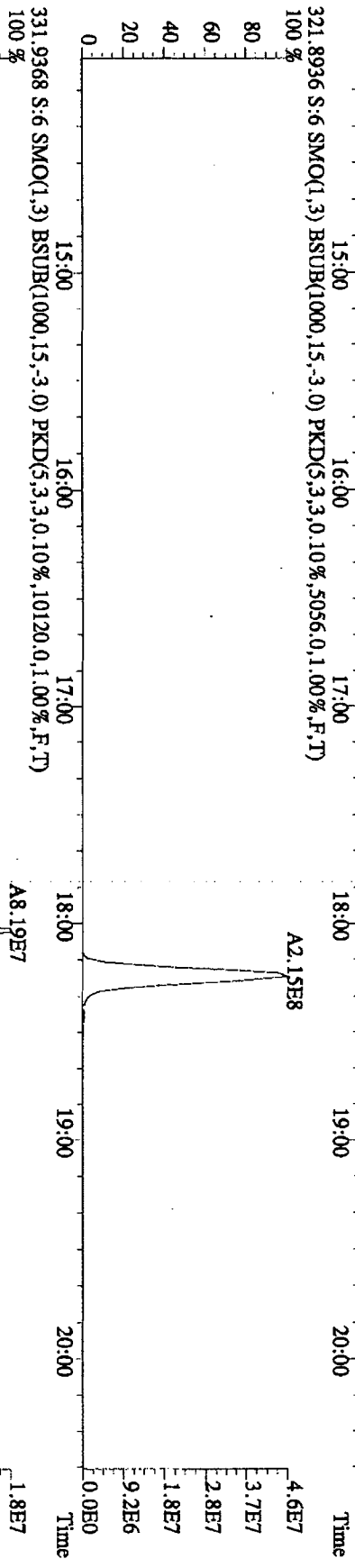
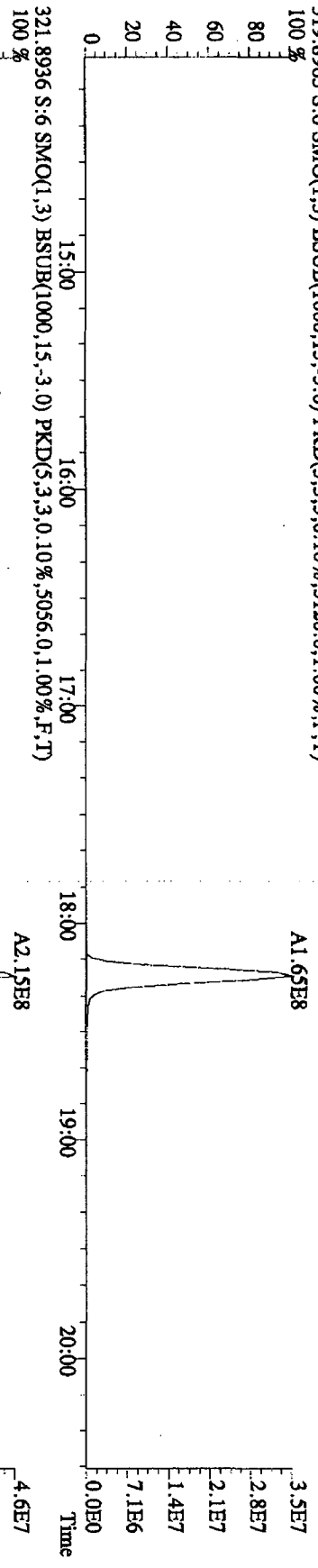
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4596,0,1,00%,F,T)



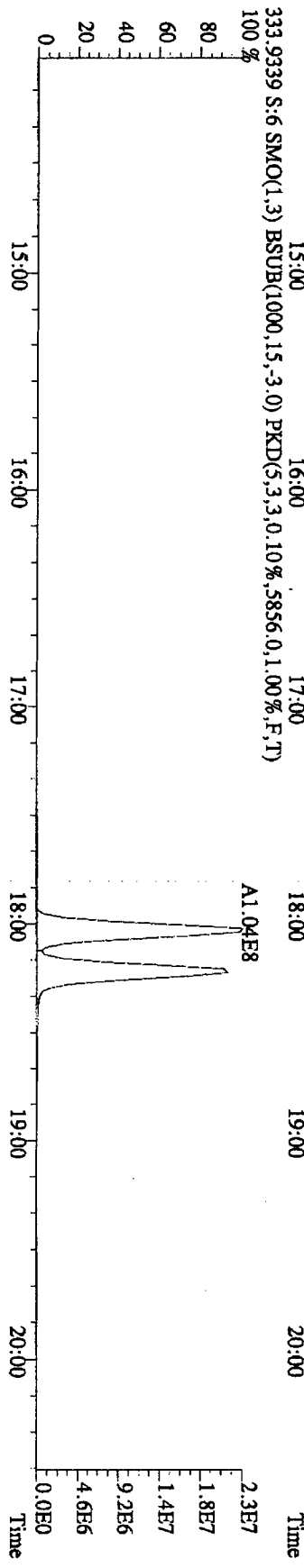
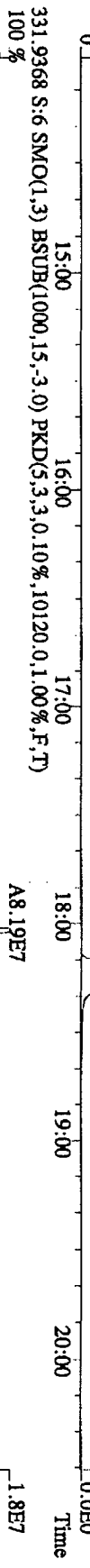
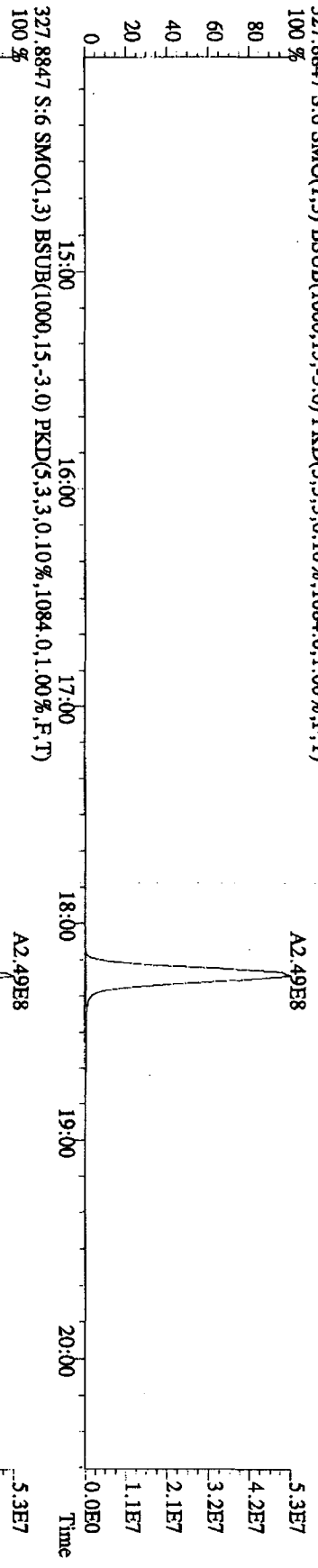
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9512,0,1,00%,F,T)



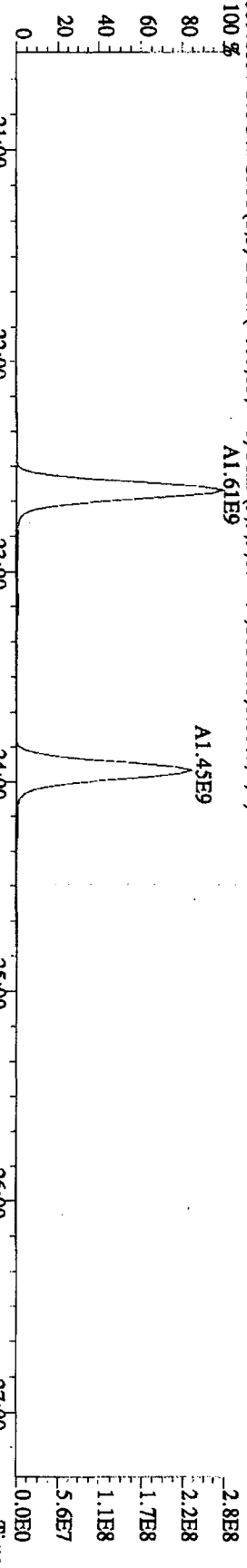
File: 29OCT10ID5 #1-382 Acq: 29-OCT-2010 09:13:09 GC EI + Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXINRES
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5120,0,1,00%,F,T)
 100 %



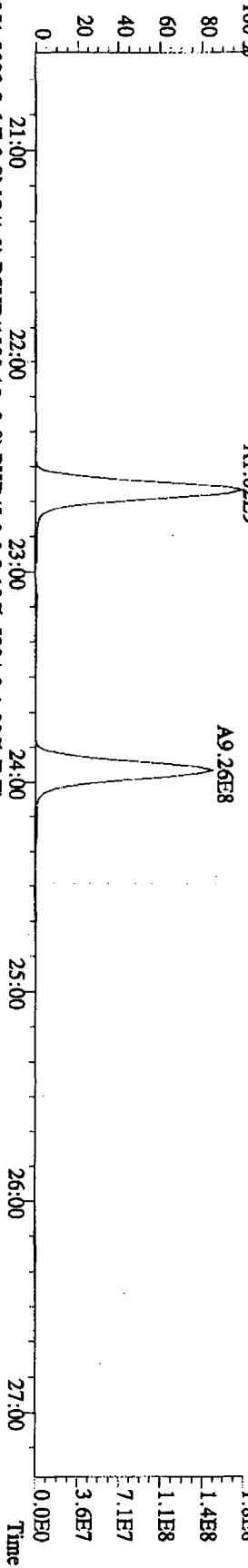
File: 29OC101ID5 #1-382 Acq: 29-OCT-2010 09:13:09 GC EI + Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXINES
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1084,0,1,00%,F,T)
 100 %



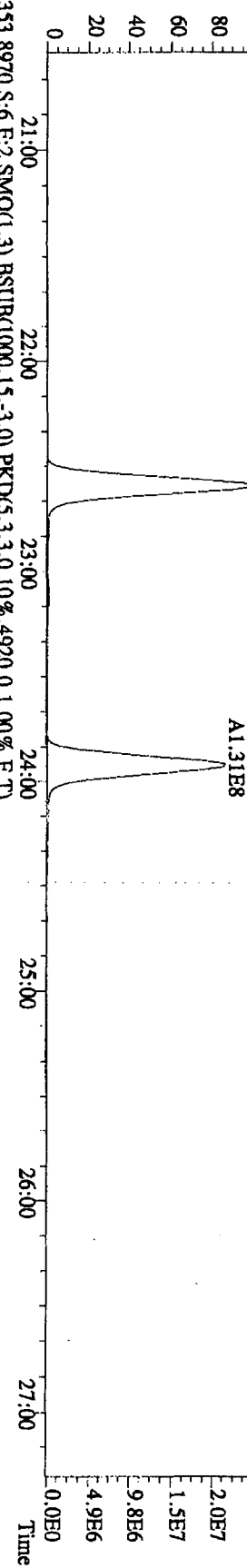
File:290C101D5 #1-422 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029D :CSS 10DXN507 Exp:DIOXINRES
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(S,3,3,0,10%,16168,0,1,00%,F,T)
 100 % A1.61E9



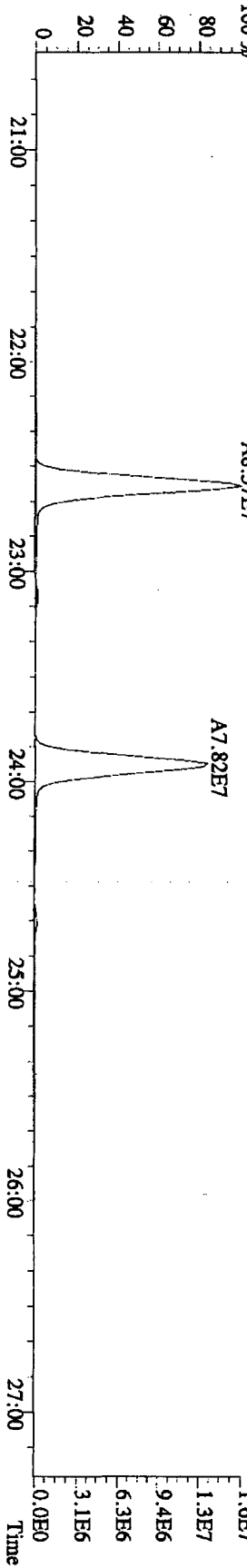
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(S,3,3,0,10%,16444,0,1,00%,F,T)
 100 % A1.02E9



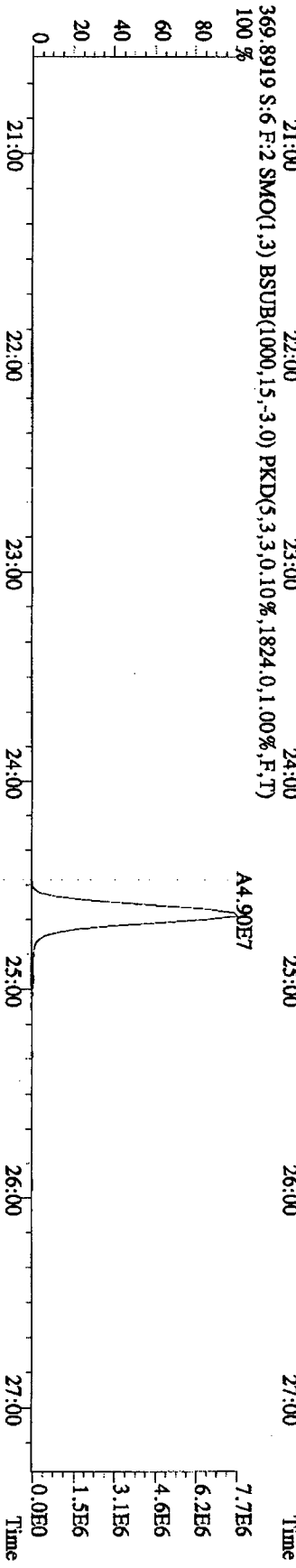
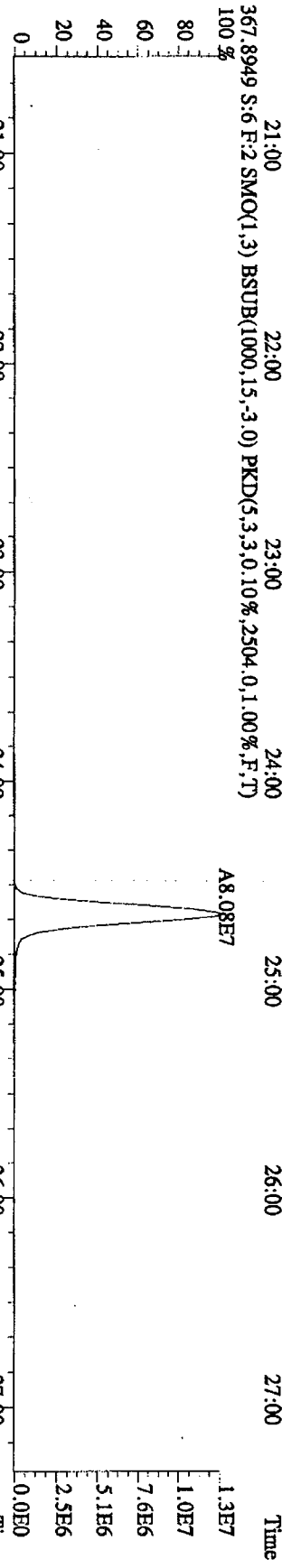
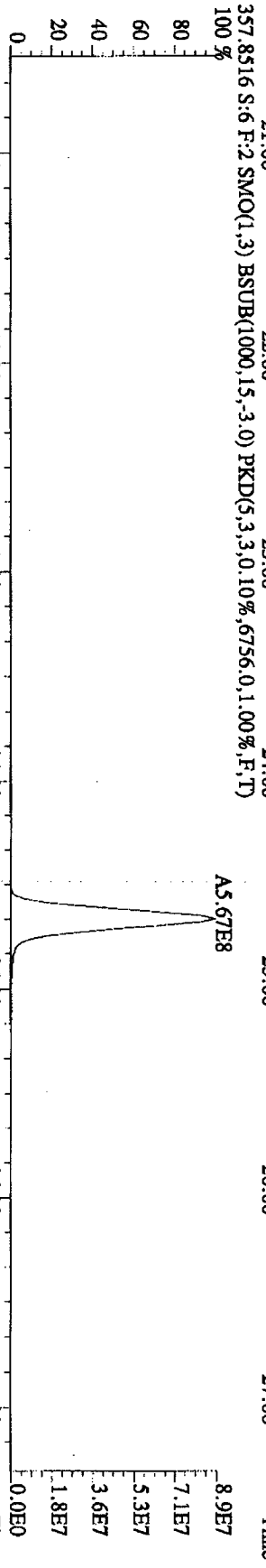
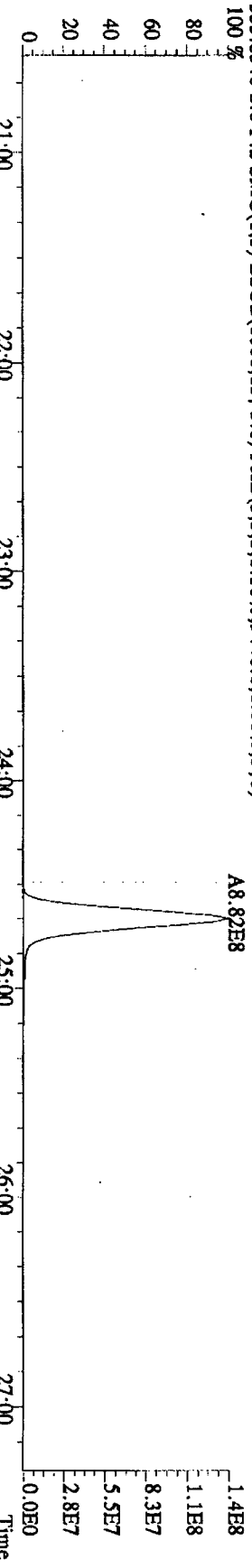
351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(S,3,3,0,10%,5204,0,1,00%,F,T)
 100 % A1.39E8



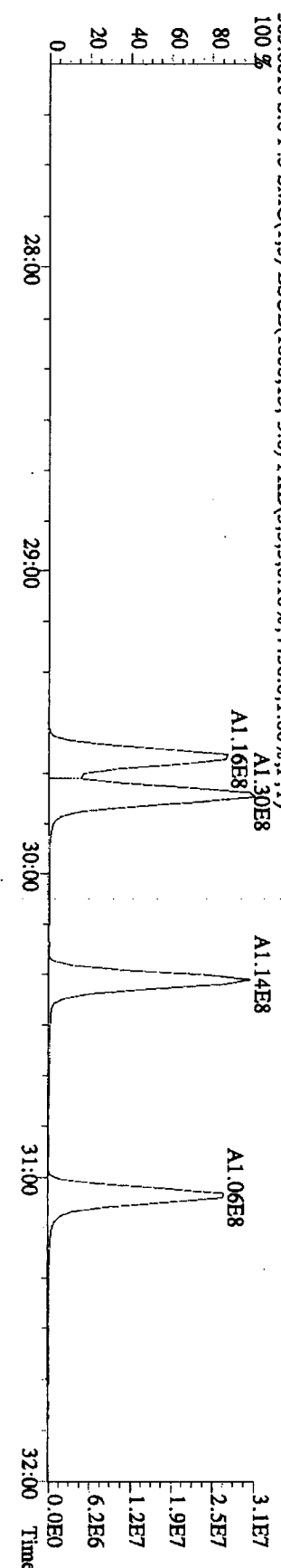
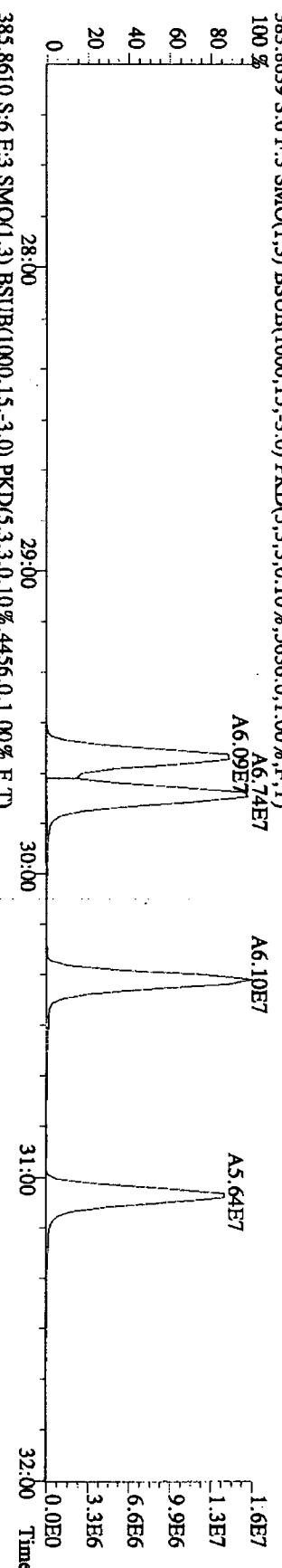
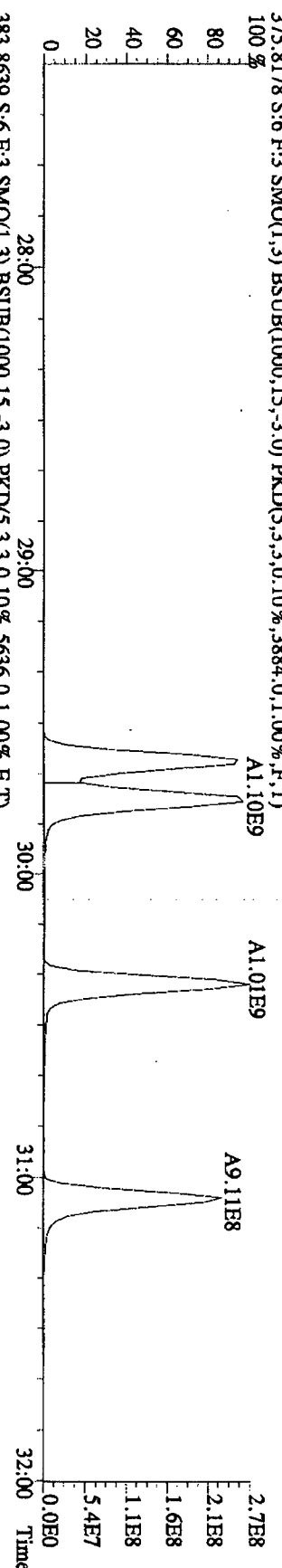
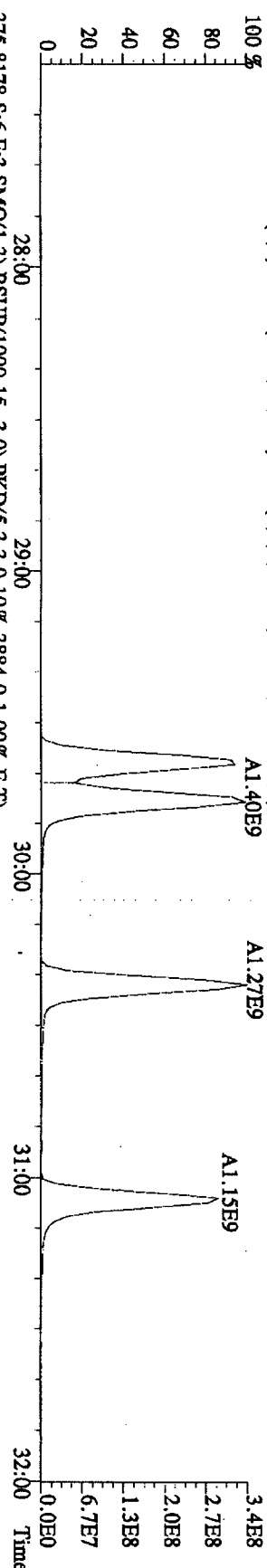
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(S,3,3,0,10%,4920,0,1,00%,F,T)
 100 % A8.57E7



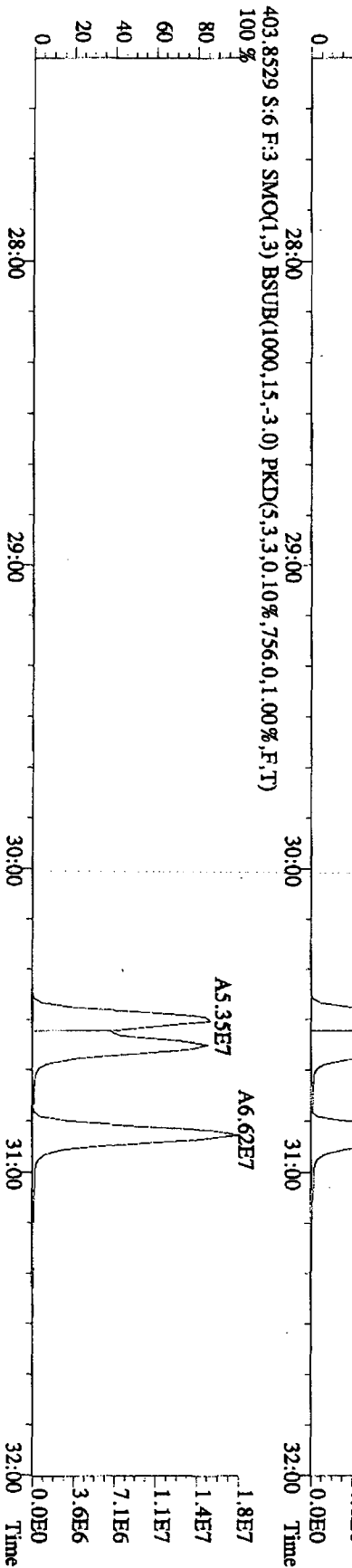
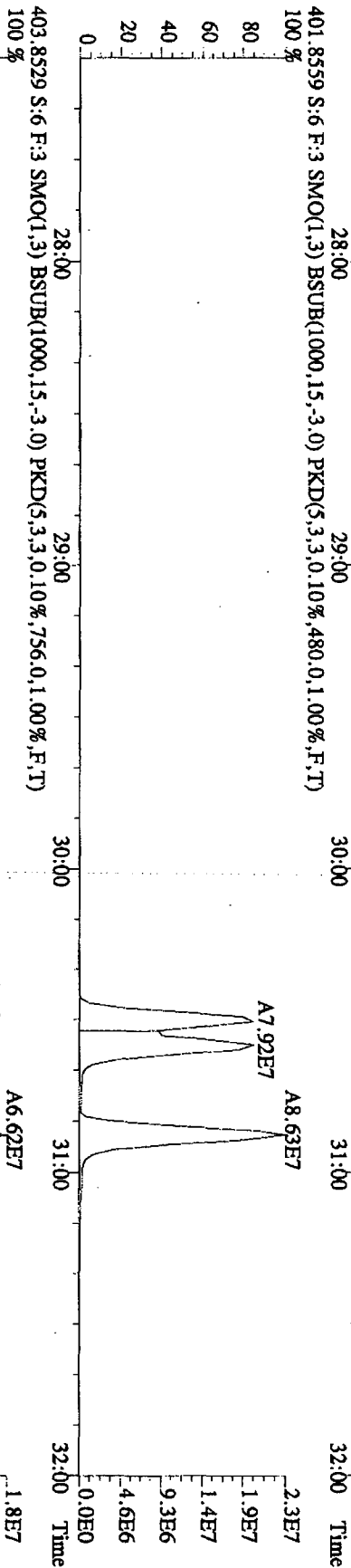
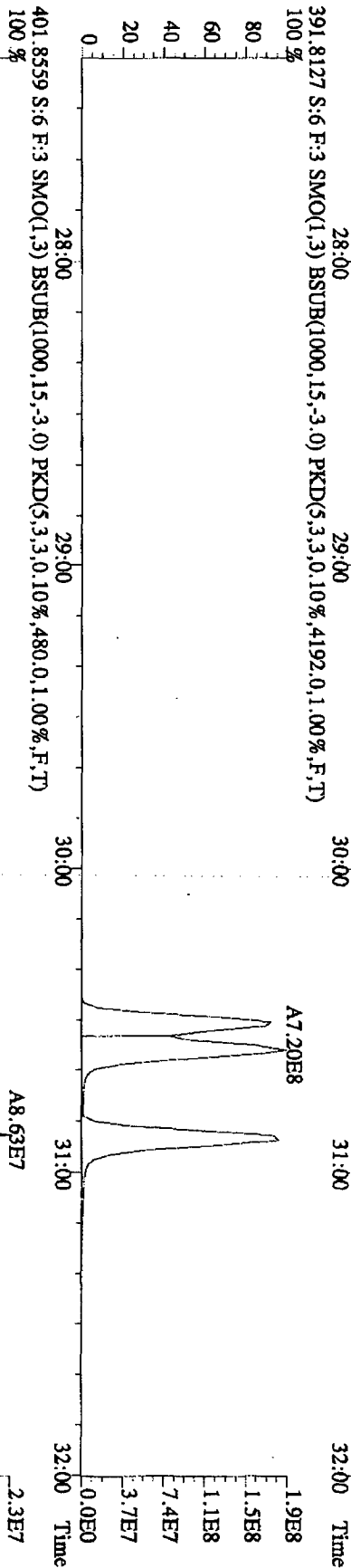
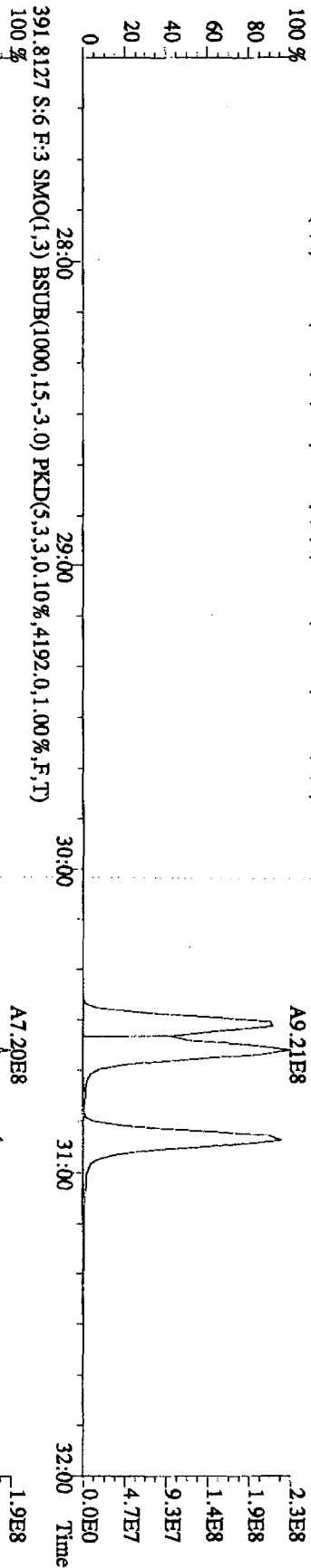
File:29OC101D5 #1-422 Acq:29-OCT-2010 09:13:09 GC EI + Voltage SIR 70SE
 Sample#6 Text:ST1029D :CSS 10DXN507 Exp:DIOXINRES
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9448,0,1,00%,F,T)
 100 %



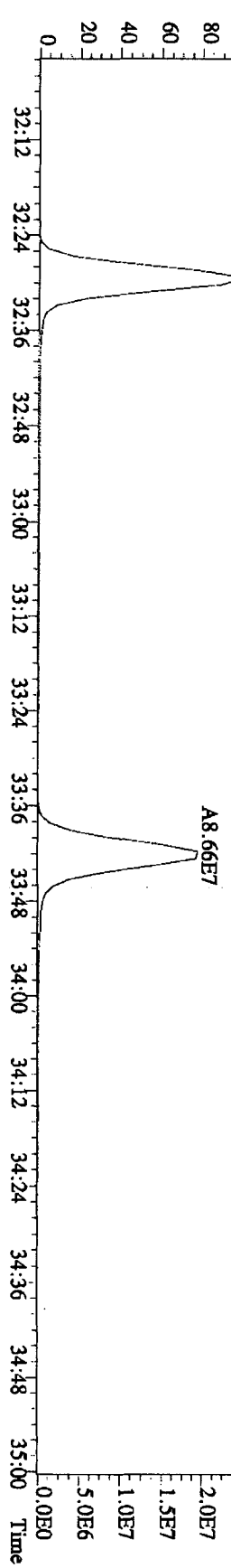
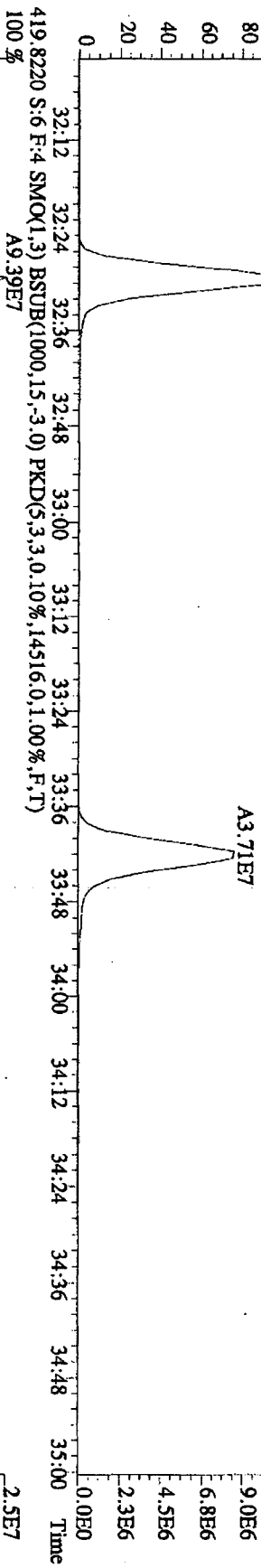
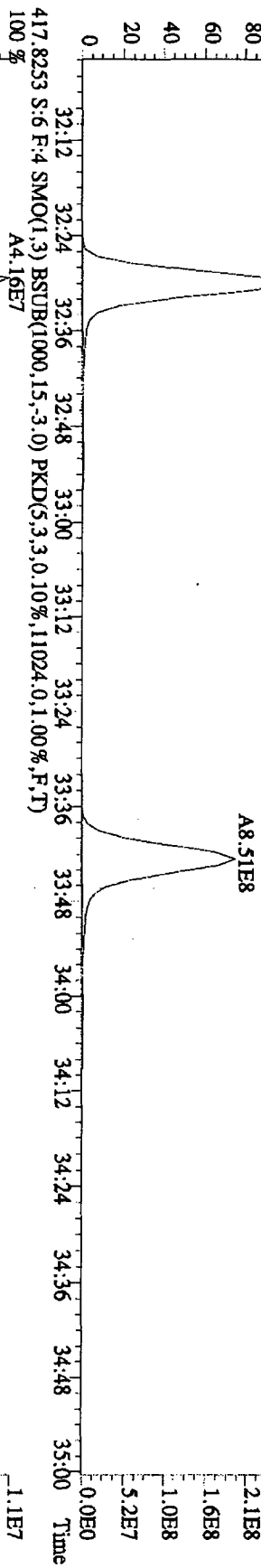
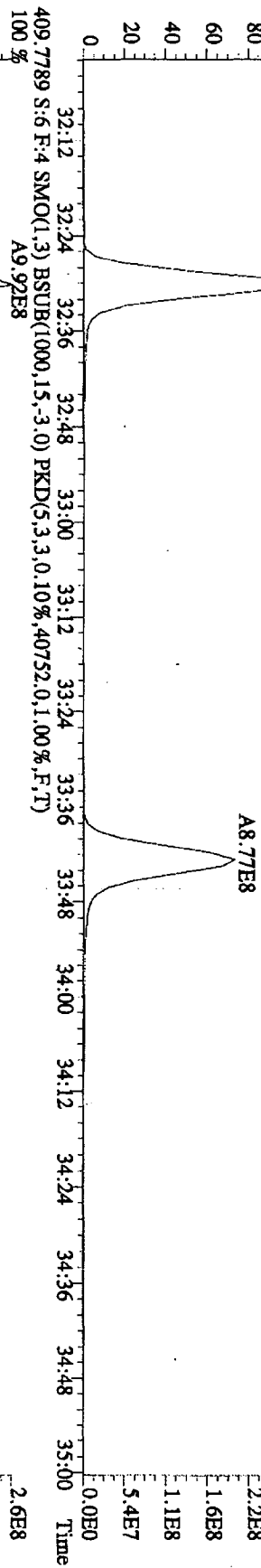
File:29OC101D5 #1-301 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029D :CSS 10DXN507 Exp:DIOXINRES
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940,0.1,0.00%,F,T)



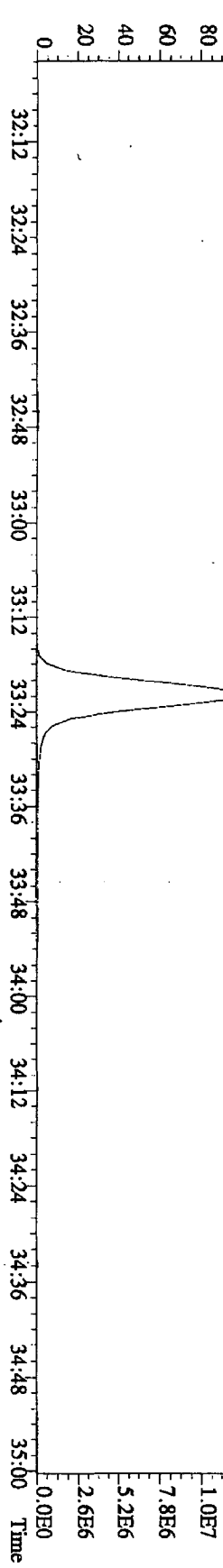
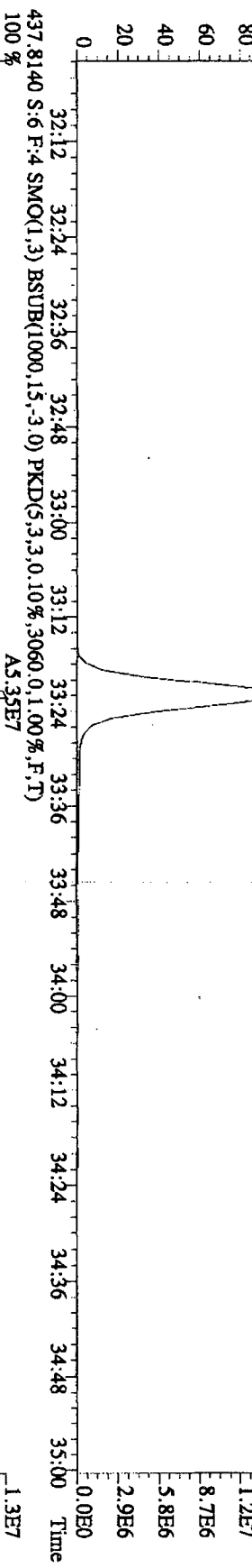
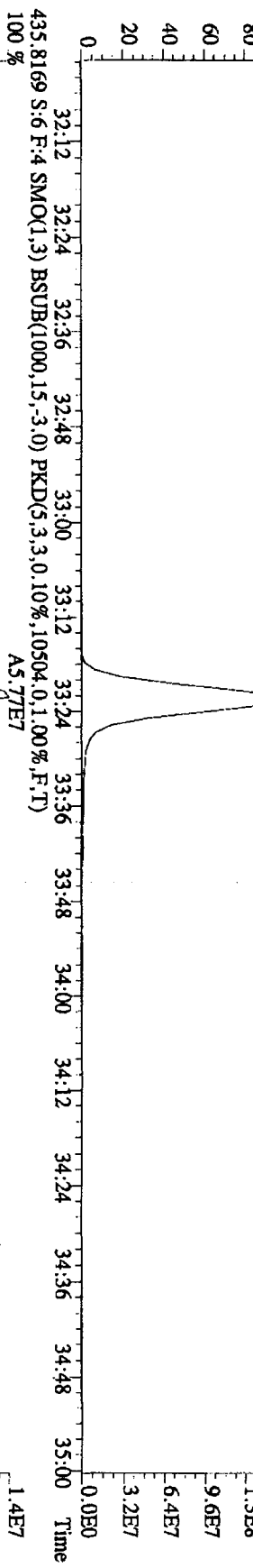
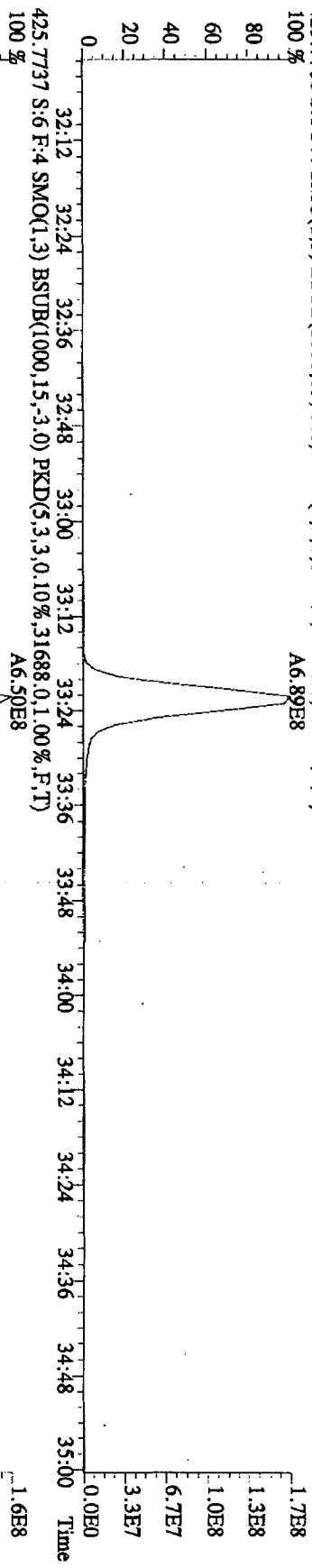
File:290C101D5 #1-301 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029D :CS5 10DXN507 Exp:DIOXINRES
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3224,0,1,00%,F,T)
 100%



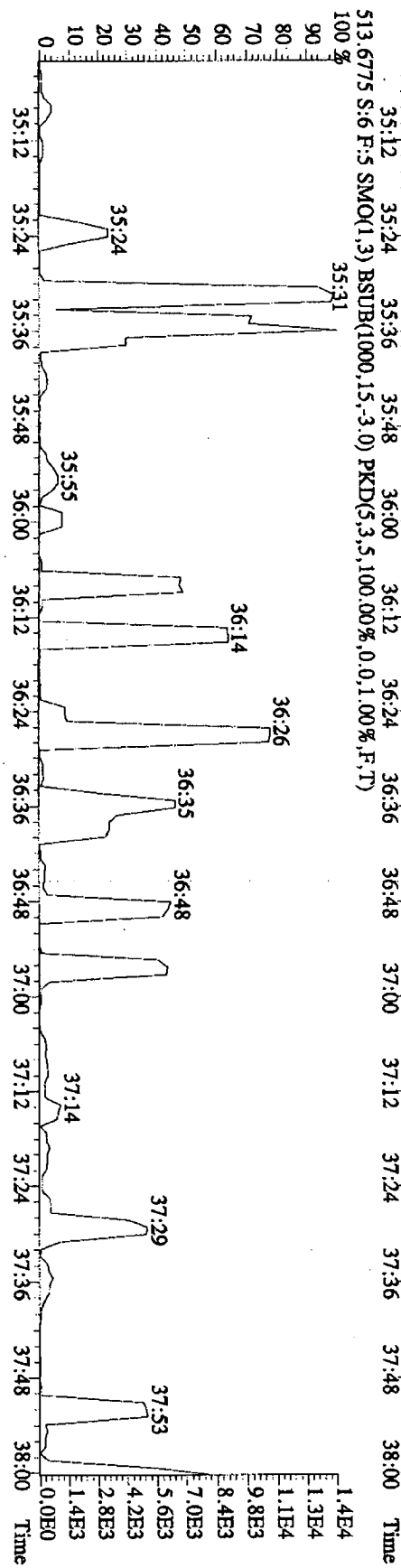
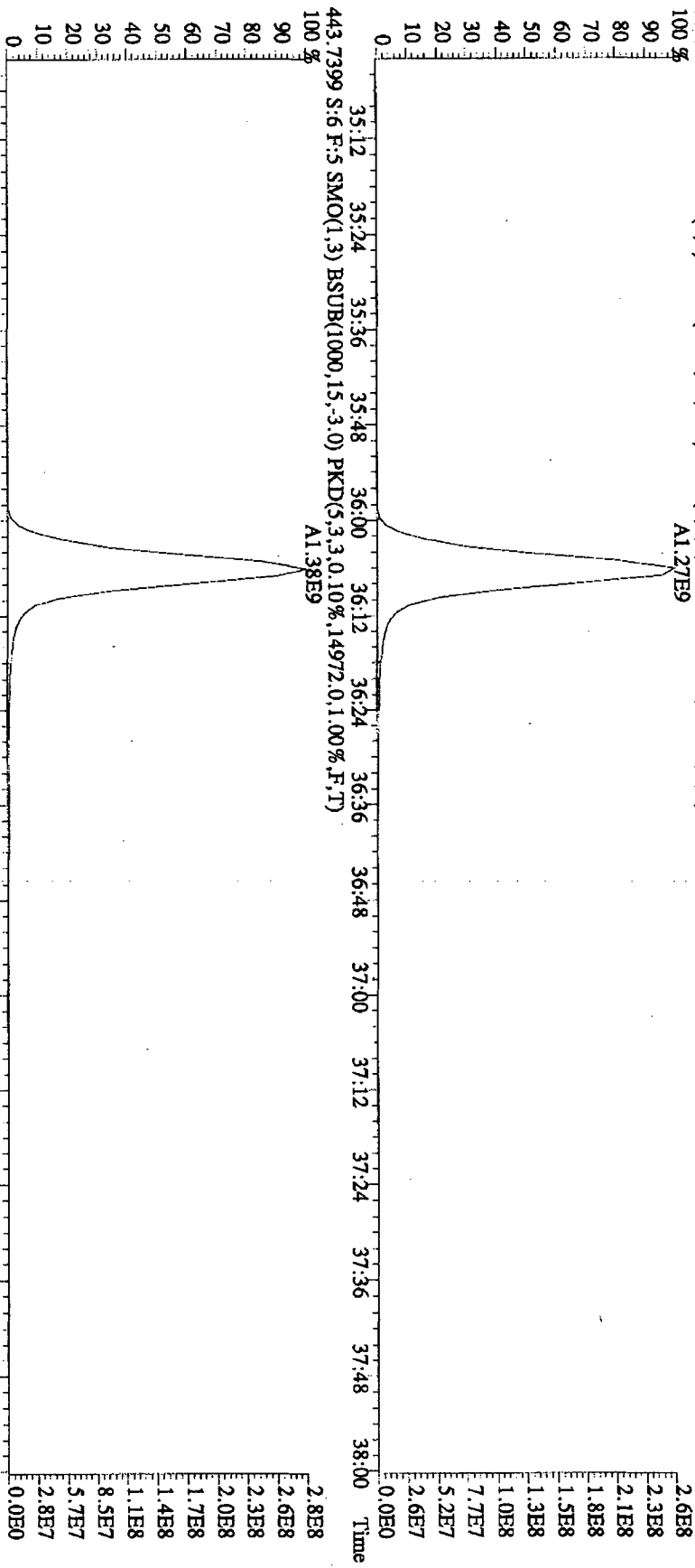
File:29OCT10ID5 #1-203 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029D :CSS 10DXN507 Exp:DIOXINRES
 407.7818 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,28716,0,1.00%,F,T)
 100 % A1.02E9



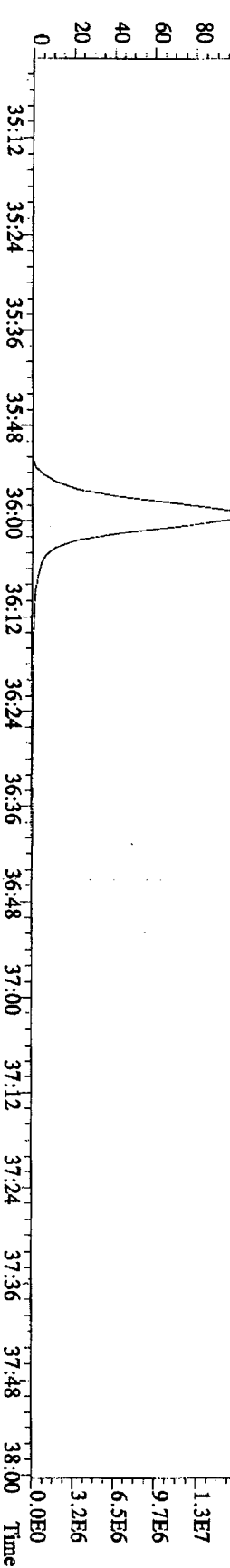
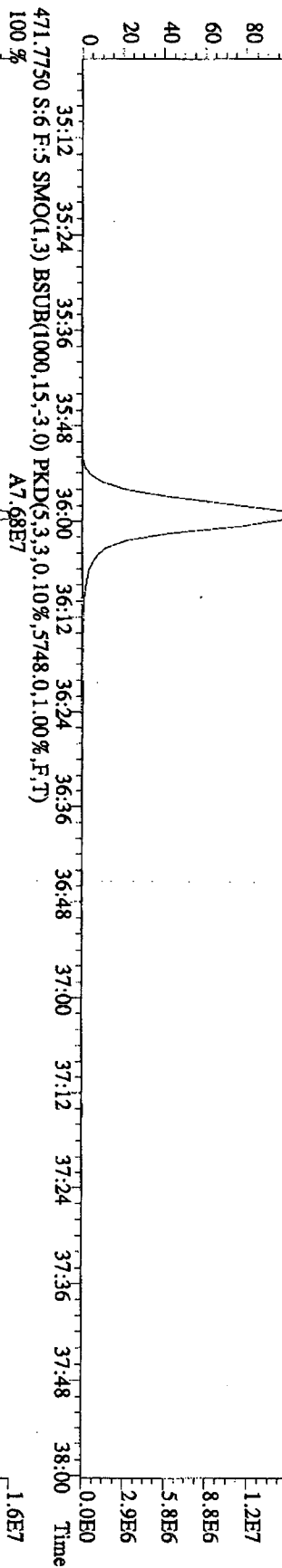
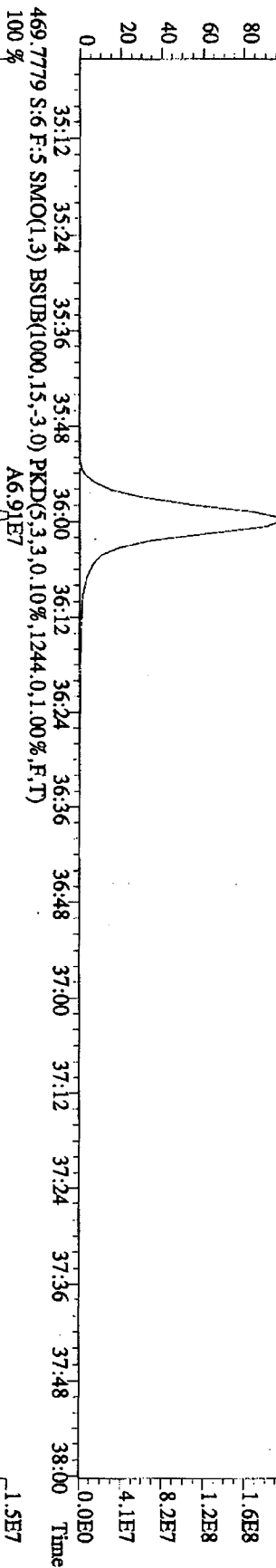
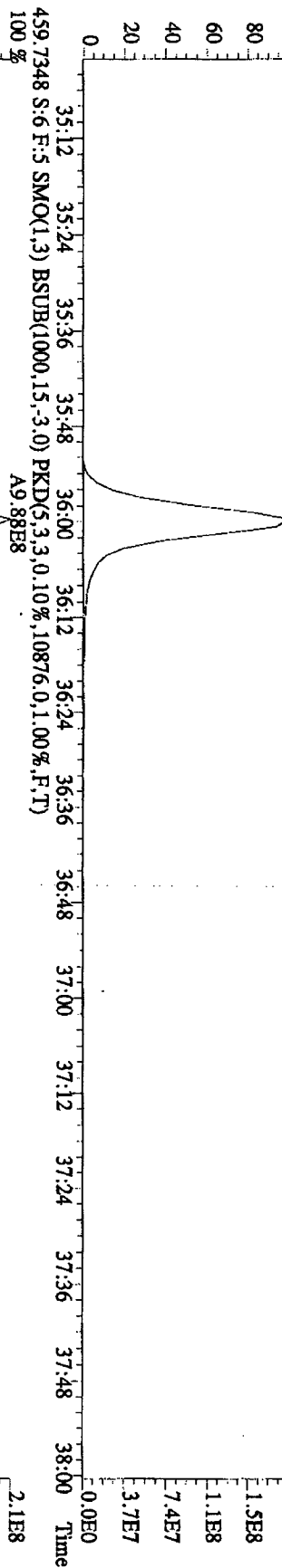
File: 290C101D5 #1-203 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXNRES
 423.7737 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,27228.0,1.00%,F,T)
 100%



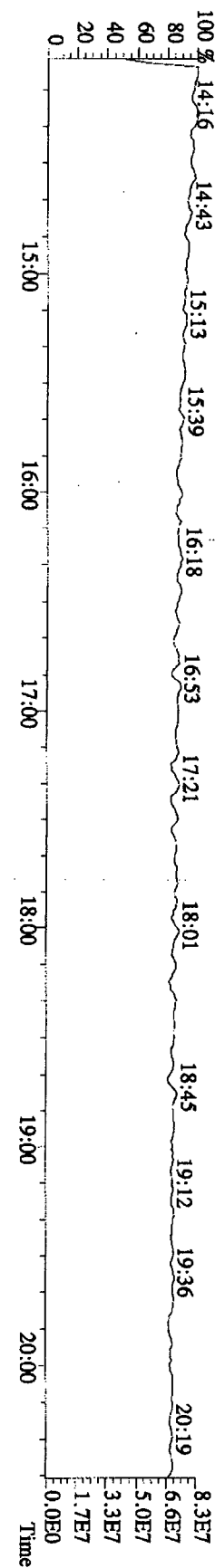
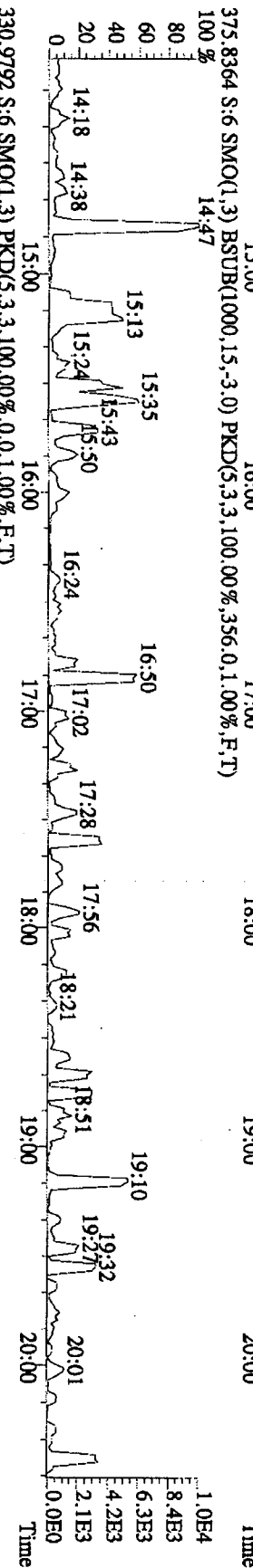
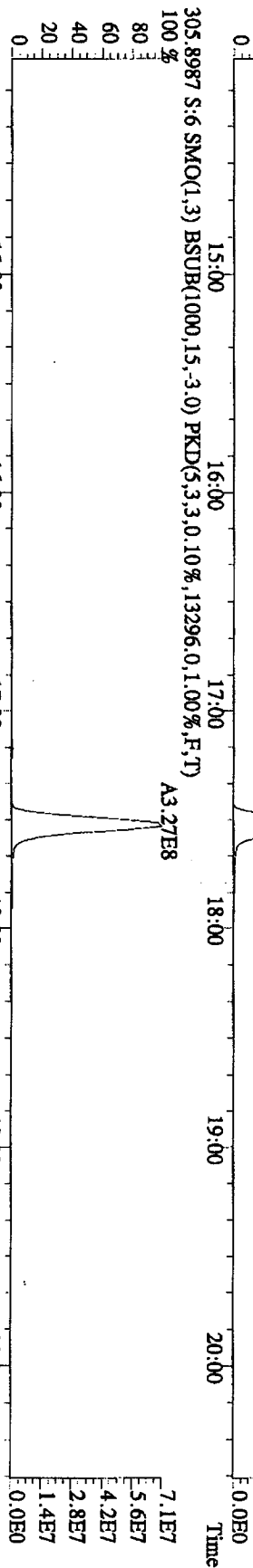
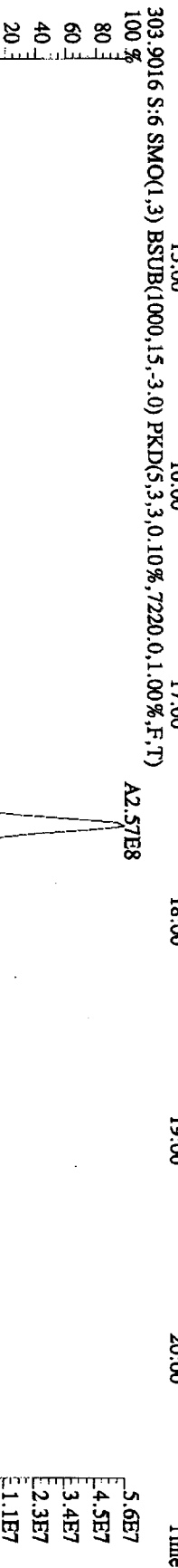
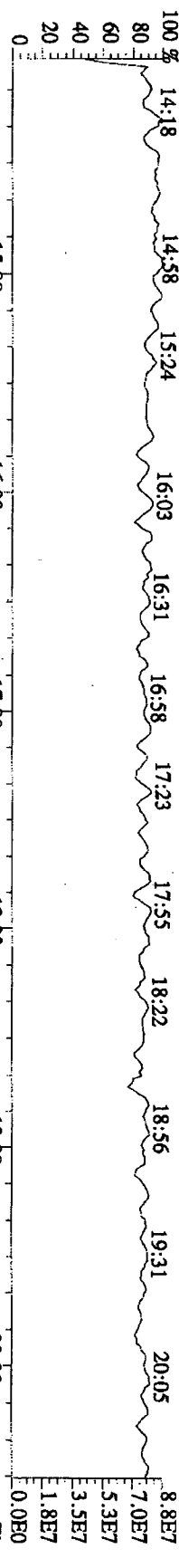
File: 29OCT101D5 #1-196 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXNS07 Exp: DIOXINRES
 441.7428 S:6 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17344,0.1,0.00%,F,T)
 100% A1.27E9



File:29OC101D5 #1-196 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029D :CSS 10DXNS07 Exp:DIOXINRES
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,13112.0,1.00%,F,T)
 100% A8.93E8



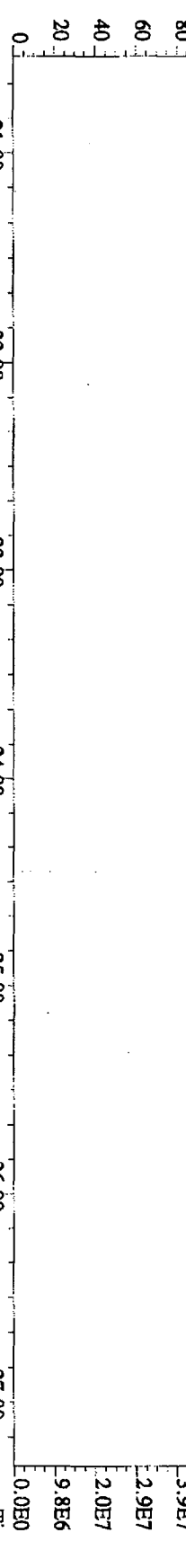
File: 290C101D5 #1-382 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1029D :CS5 10DXNS07 Exp: DIOXINRES
 292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



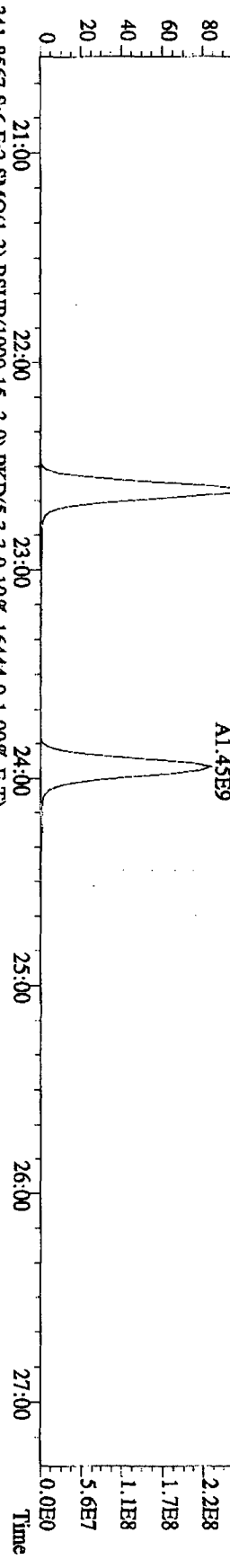
File:290C101D5 #1-422 Acq:29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE

Sample#6 Text:ST1029D :CSS 10DXN507 Exp:DIOXINRES

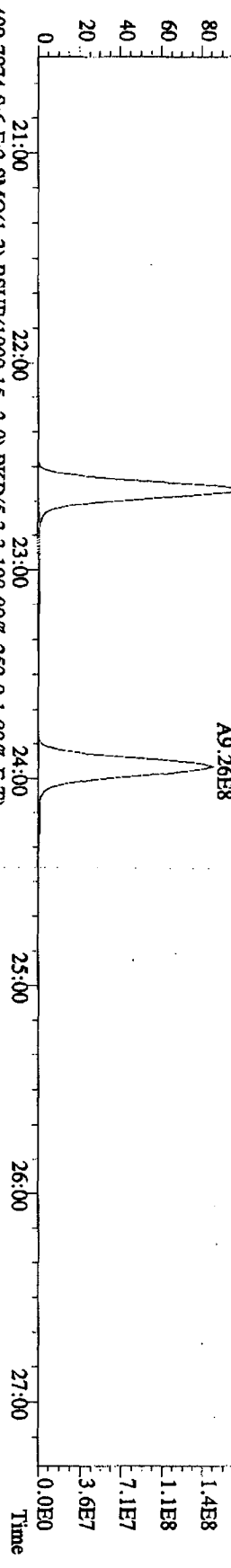
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



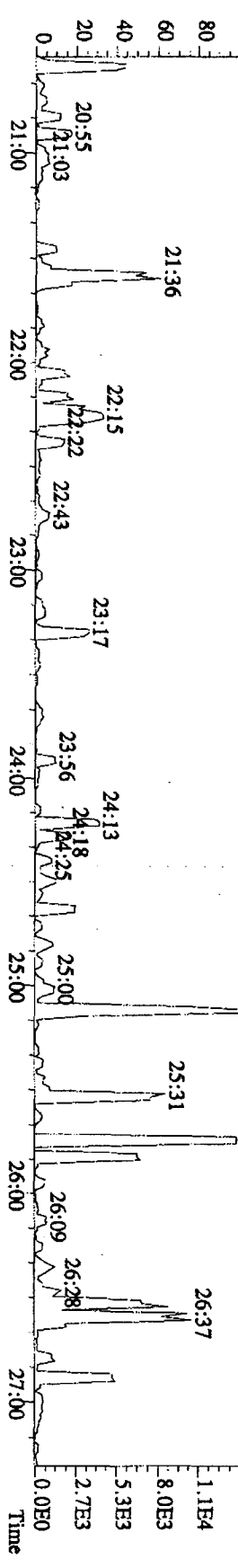
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,16168,0,1.00%,F,T)



341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,16444,0,1.00%,F,T)

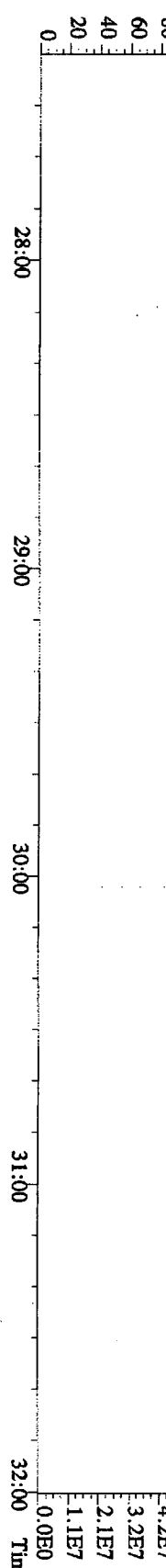
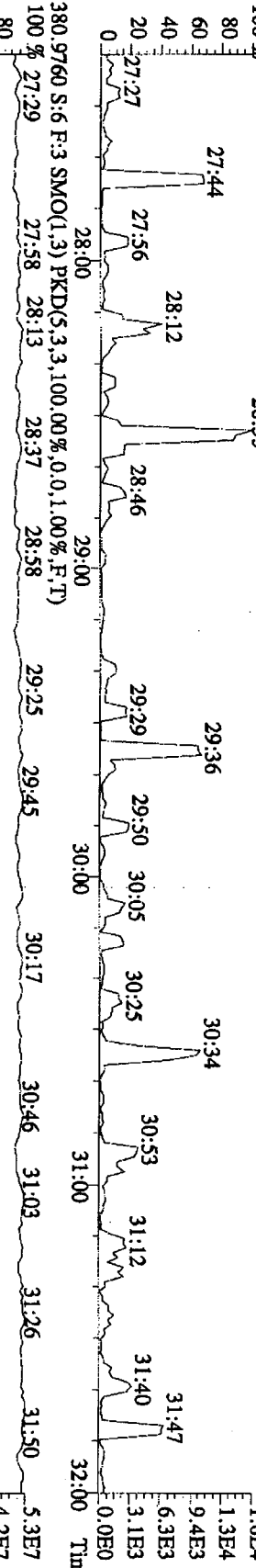
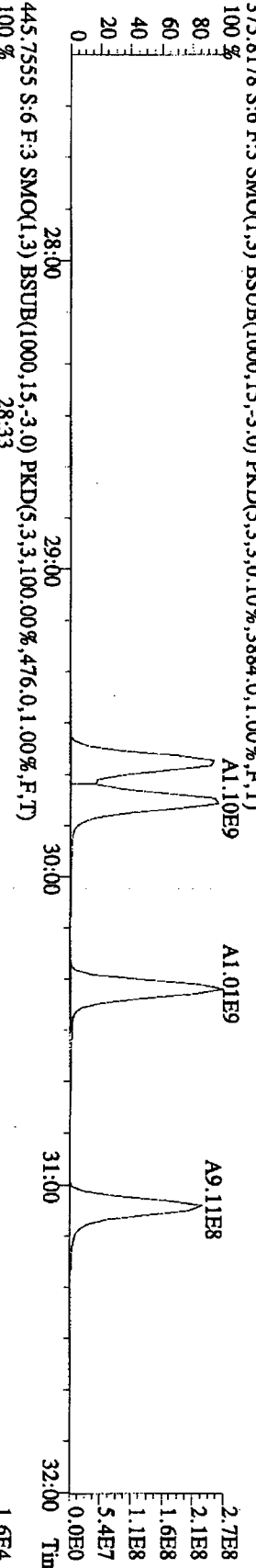
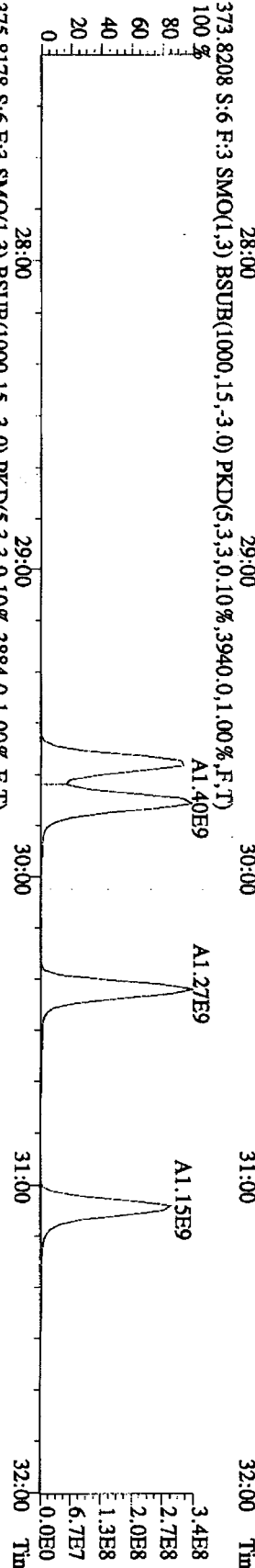
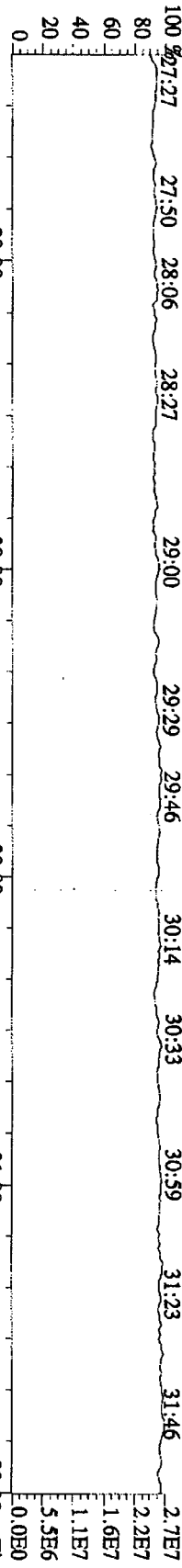


409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,252,0,1.00%,F,T)



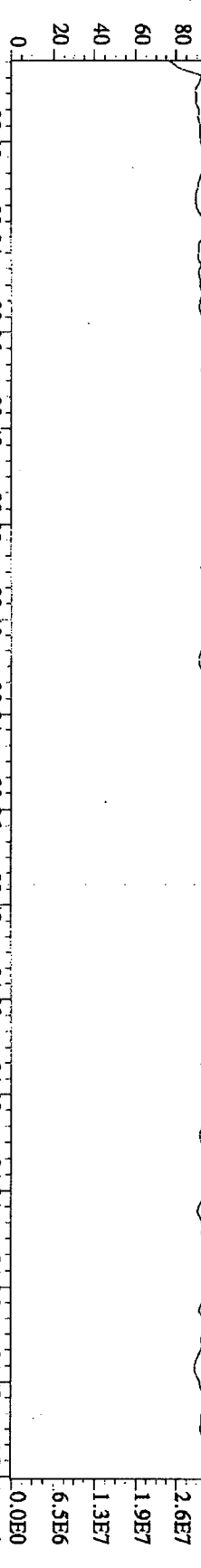
File: 290C101D5 #1-301 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE

Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXINRES

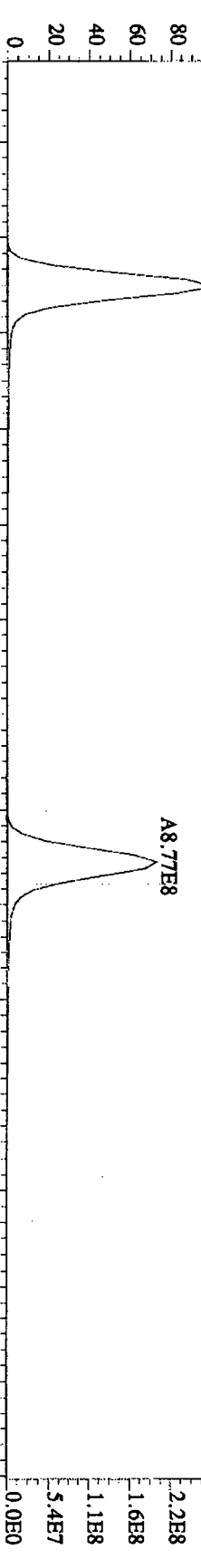


File: 29OCT101D5 #1-203 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage: SIR 70SE
 Sample#6 Text: ST1029D :CS5 10DXN507 Exp.: DIOXINRES

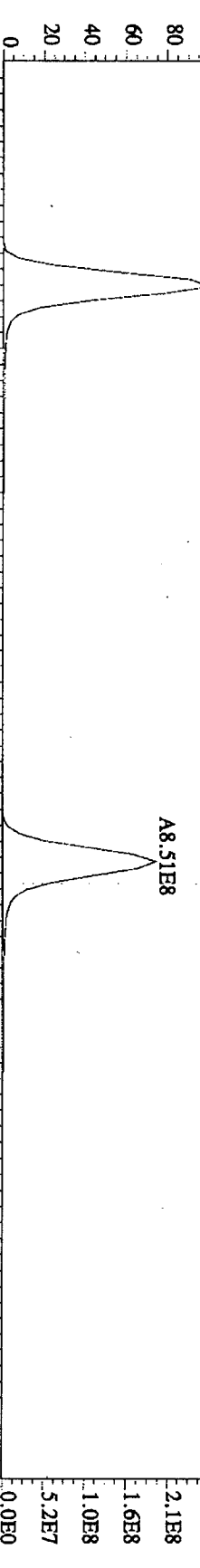
430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



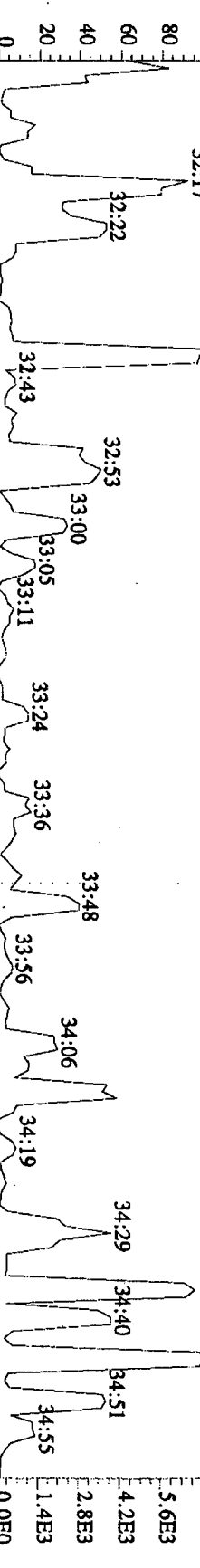
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,28716,0,1,00%,F,T)



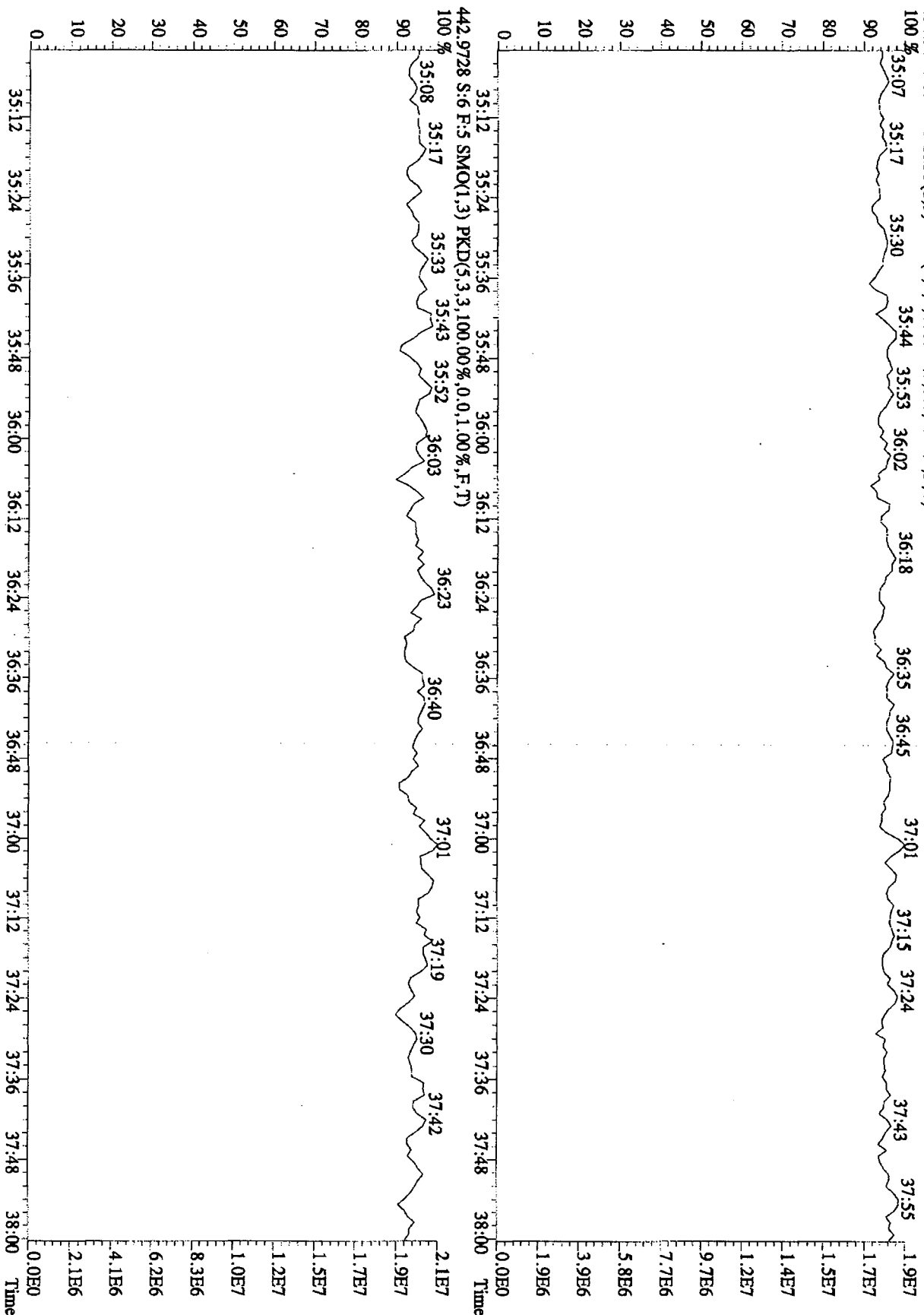
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,40752,0,1,00%,F,T)



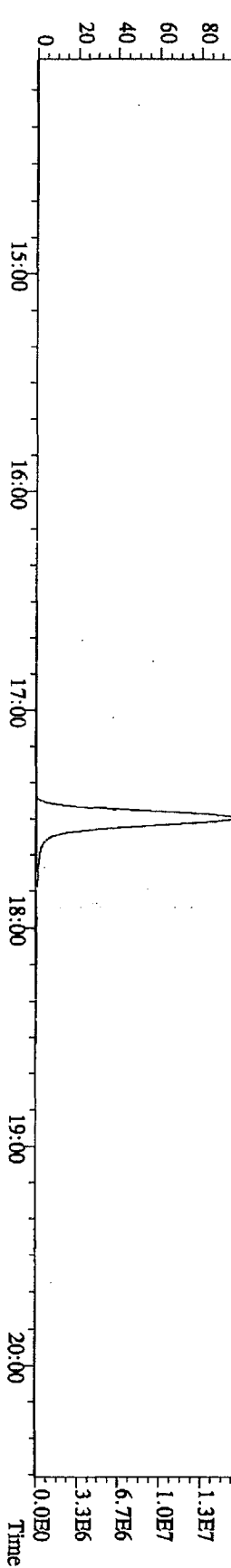
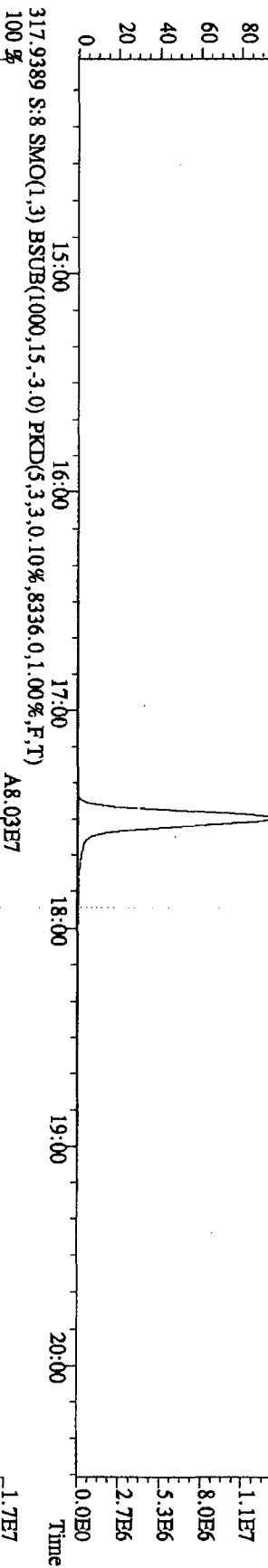
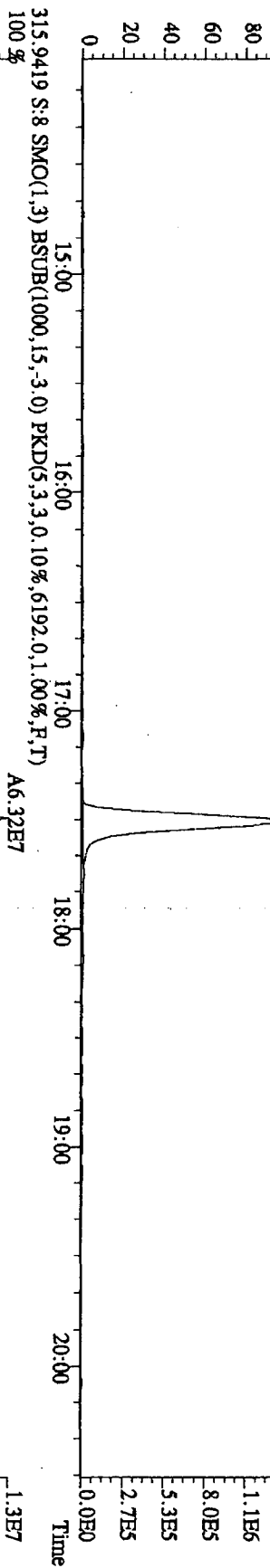
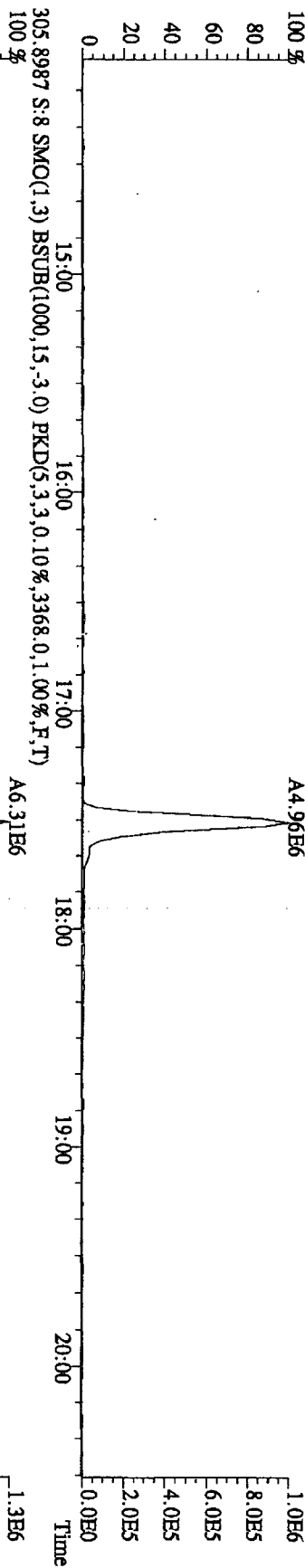
479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,536,0,1,00%,F,T)



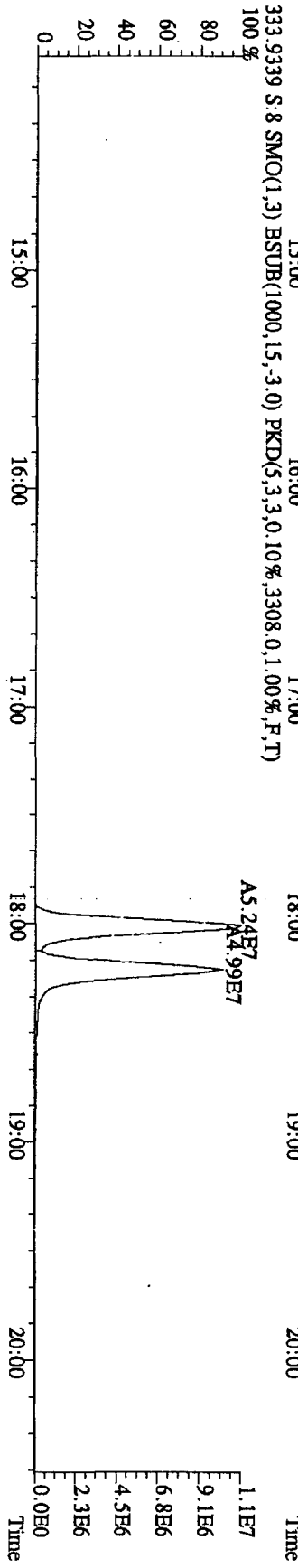
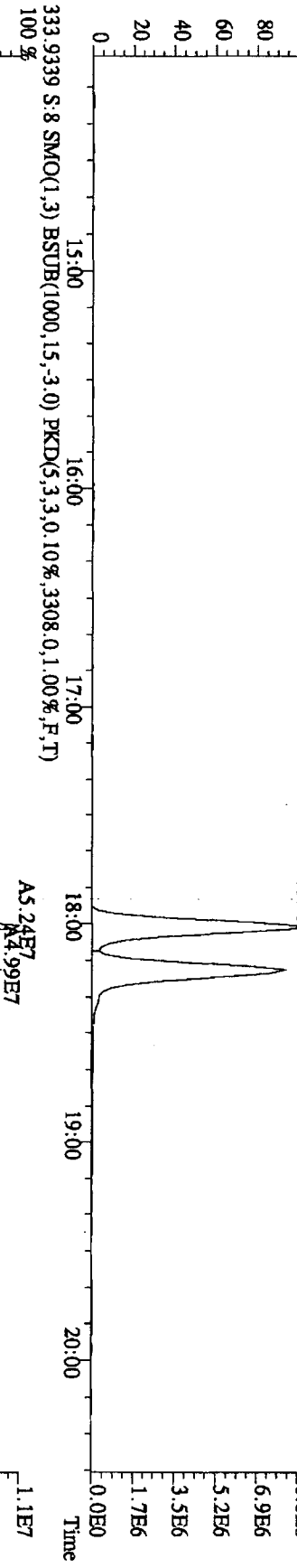
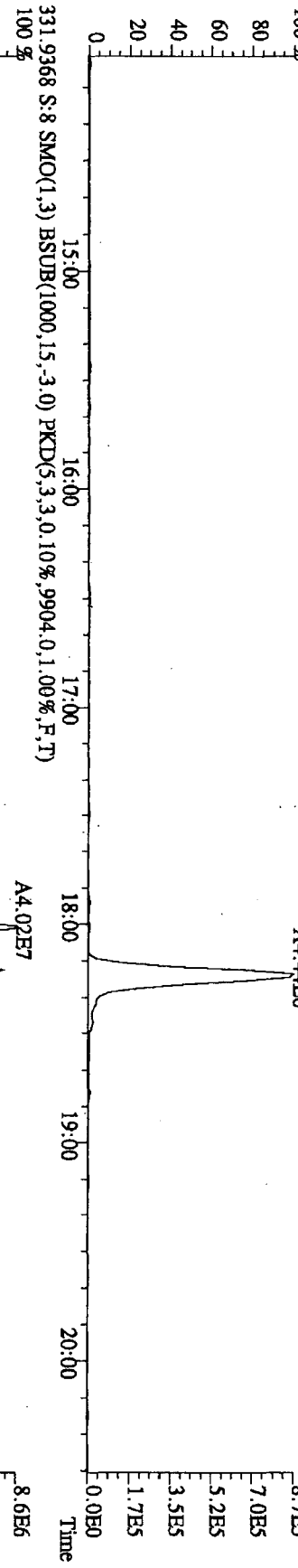
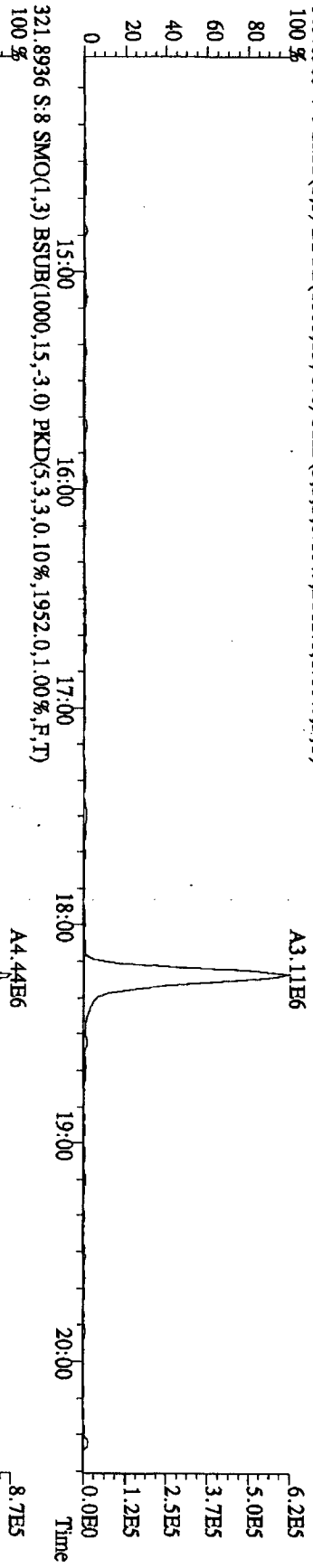
File: 29OCT101D5 #1-196 Acq: 29-OCT-2010 09:13:09 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1029D : CSS 10DXN507 Exp: DIOXINES
 454.9728 S: 6 F: 5 SMO(1.3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



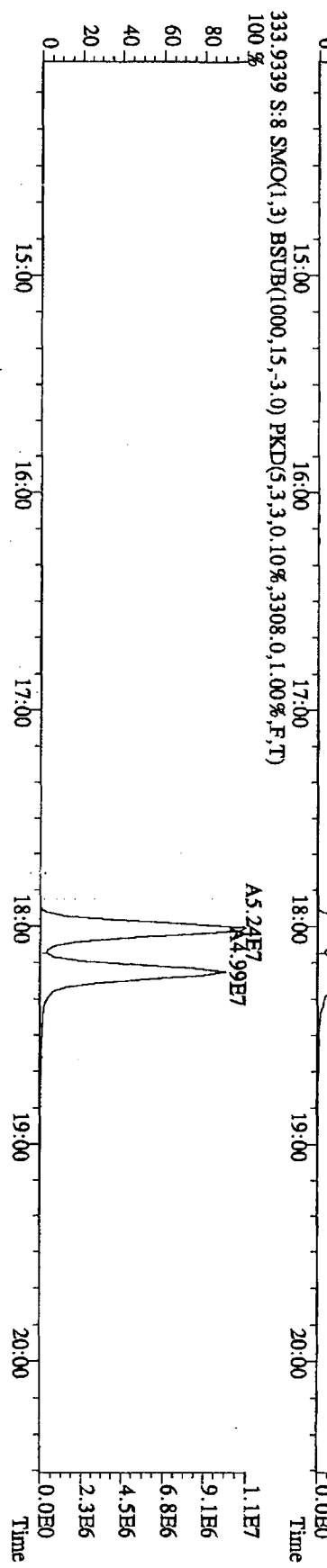
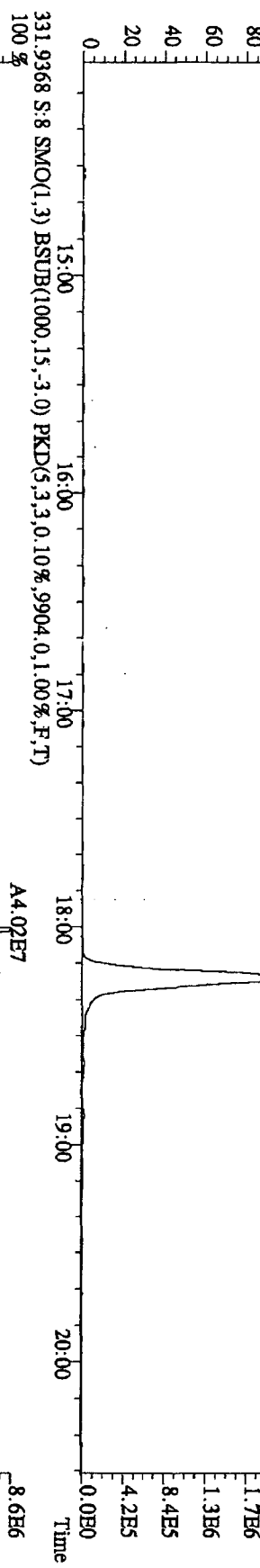
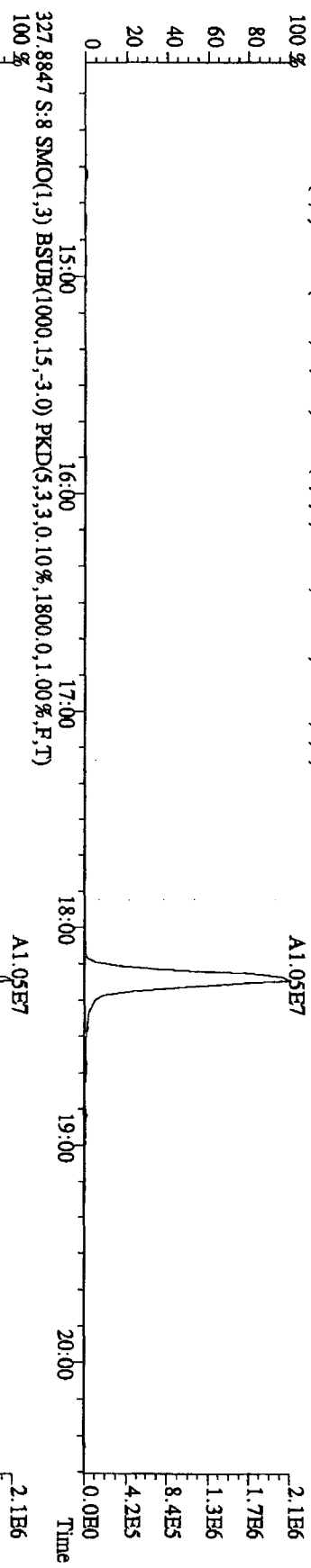
File: 29OC101D5 #1-382 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES
 303.9016 S:8 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2120,0.1,0.00%,F,T)
 100 %



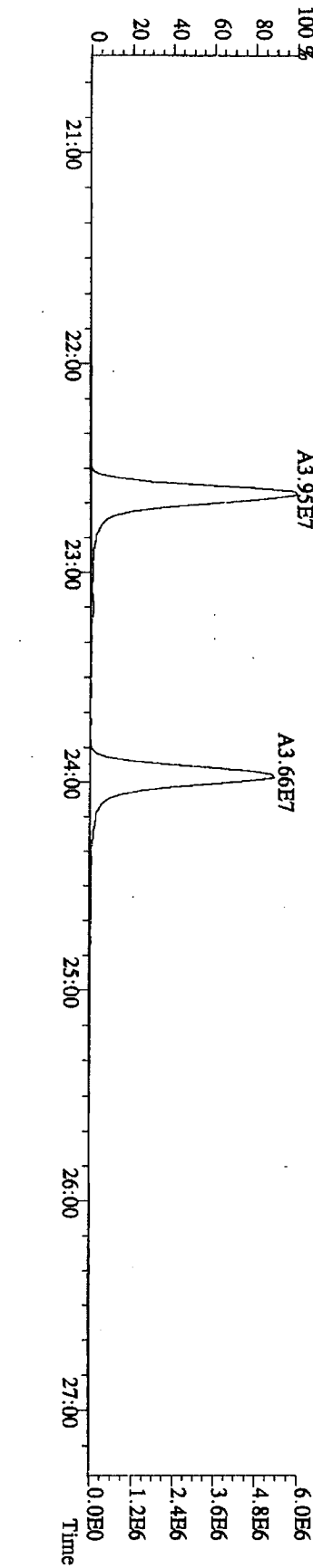
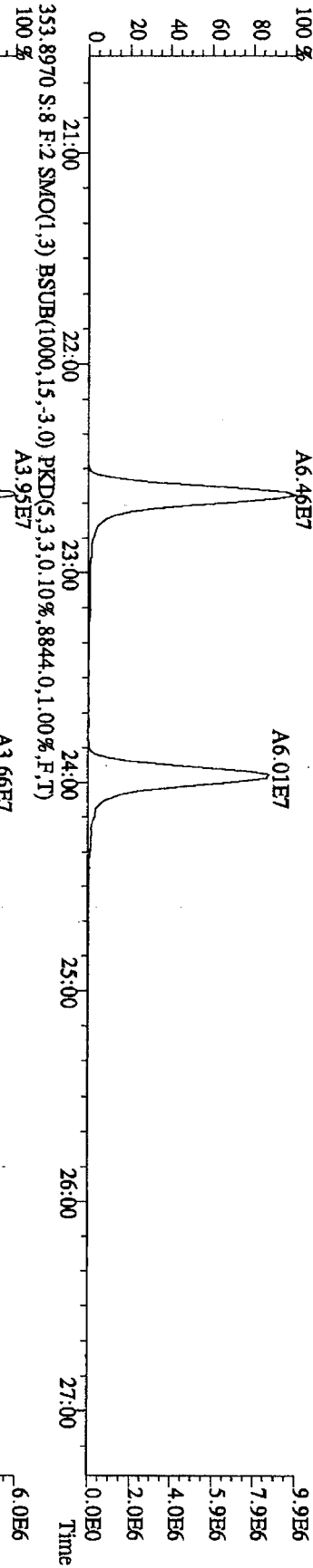
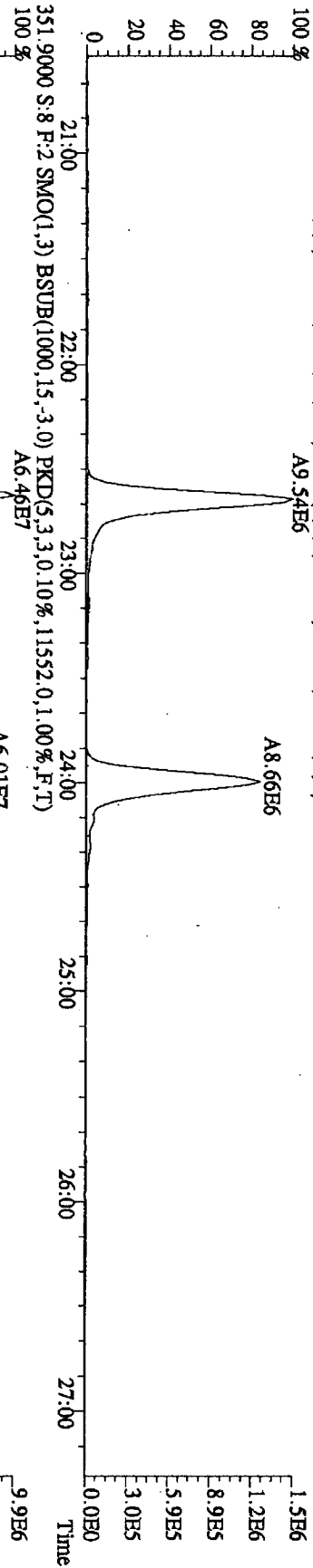
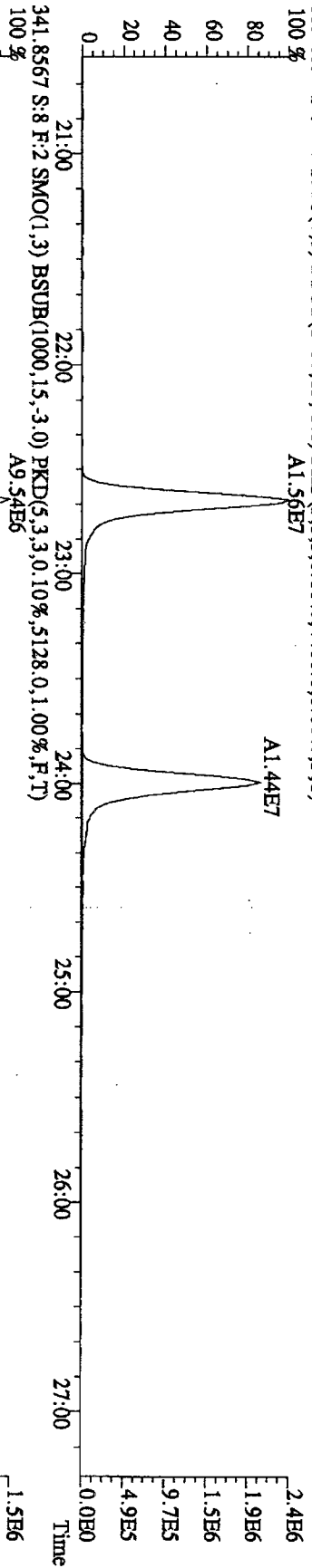
File: 29OC101D5 #1-382 Acq: 29-OCF-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINRES
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2812,0,1,00%,F,T)
 100%



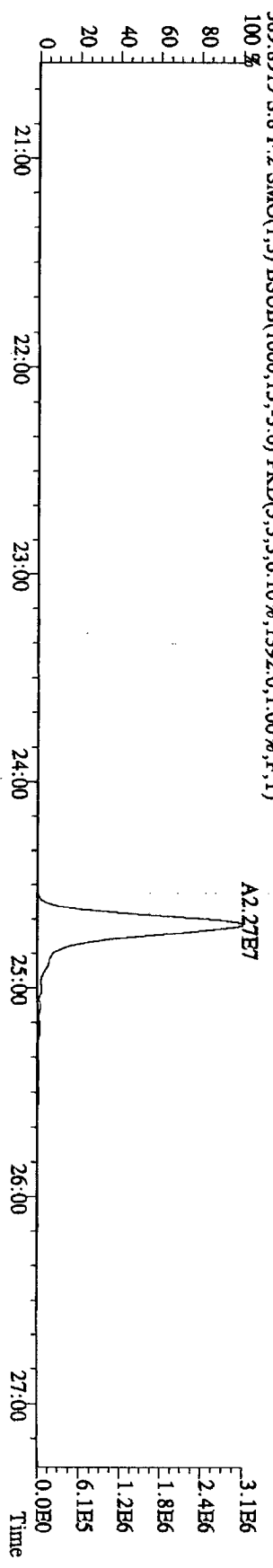
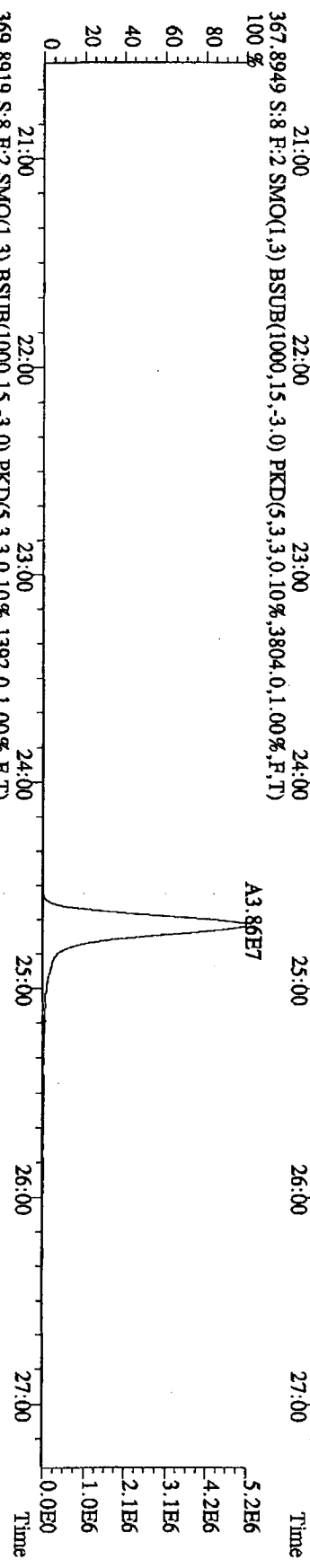
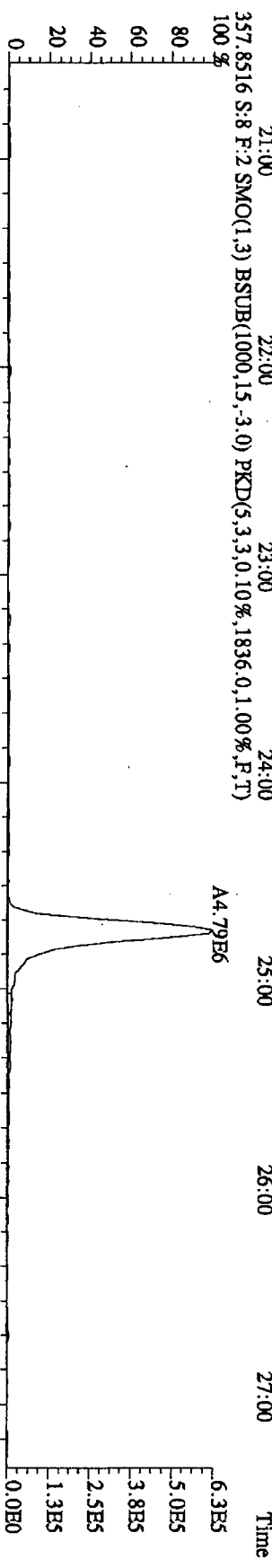
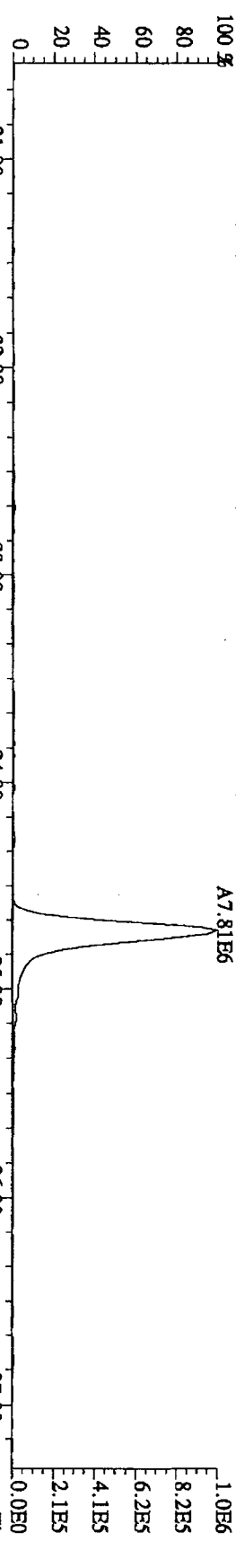
File: 29OC101D5 #1-382 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES
 327.8847 S: 8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1800,0,1.00%,F,T)
 100%



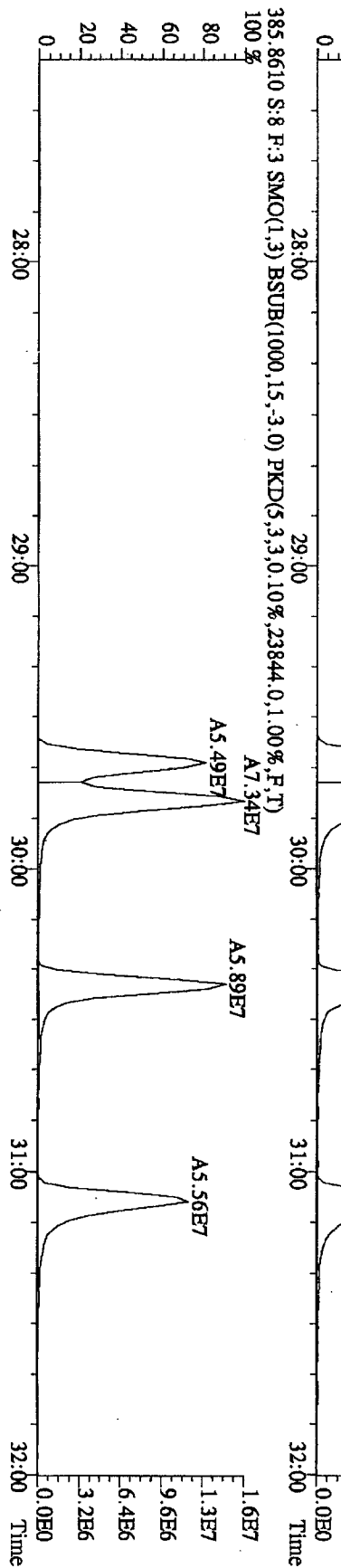
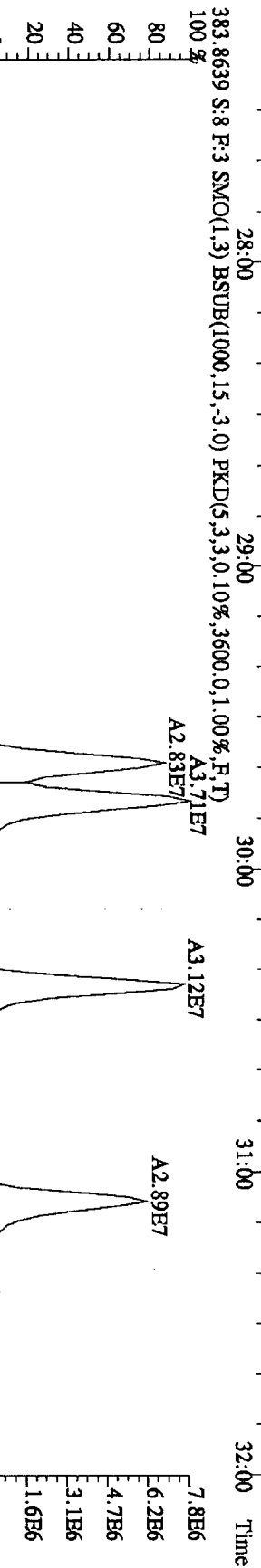
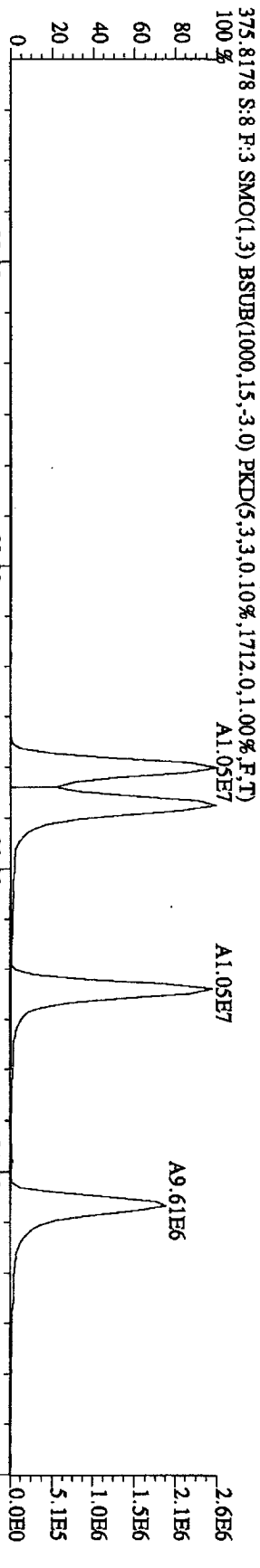
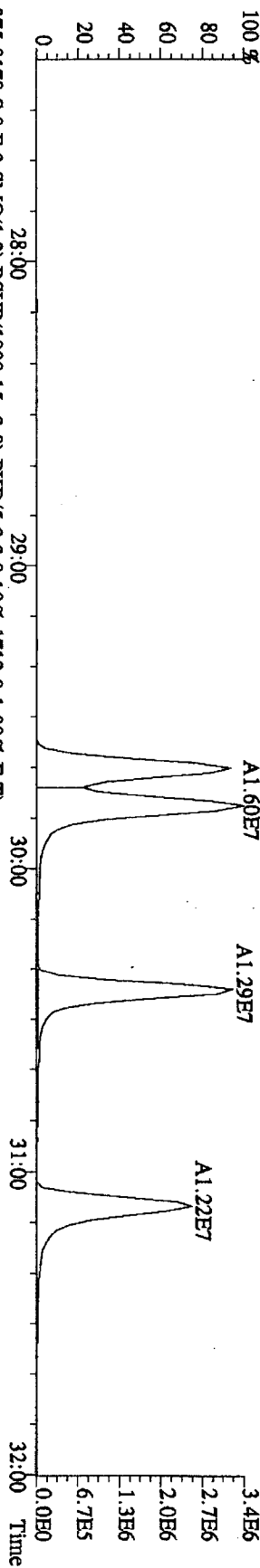
File: 29OCT101D5 #1-422 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES
 339.8597 S: 8 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4400,0,1,00%,F,T)
 100% A1.56E7



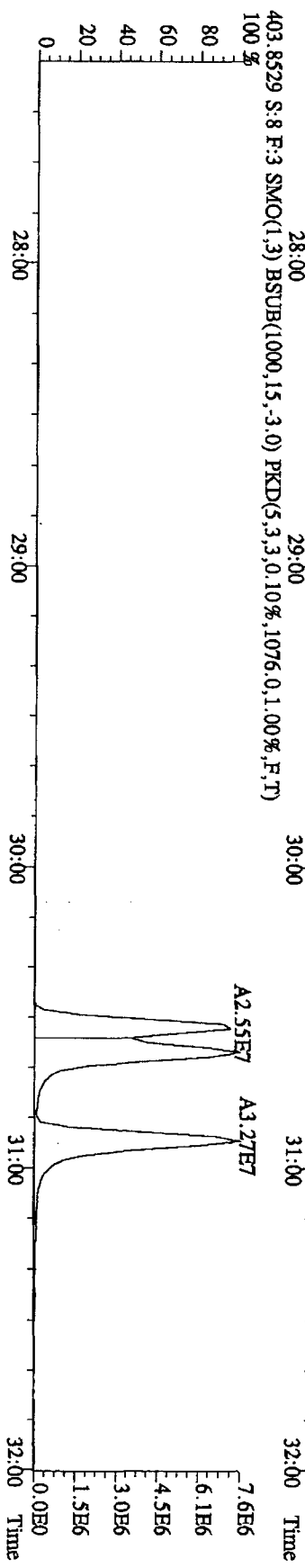
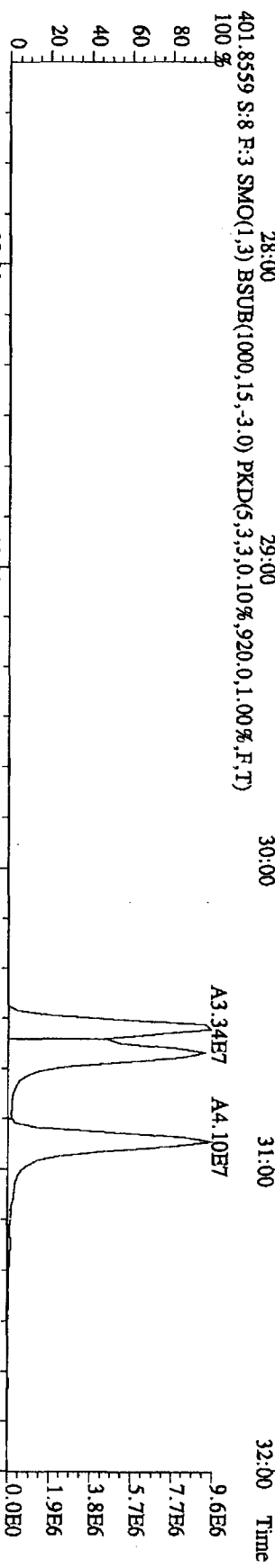
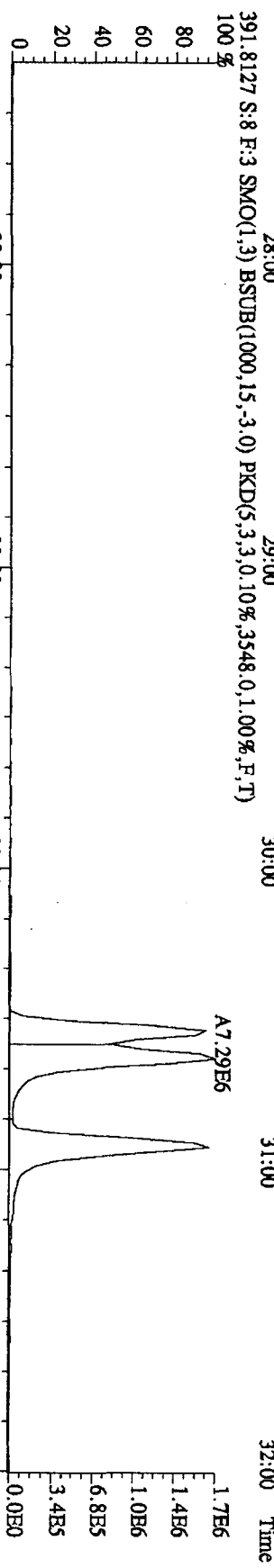
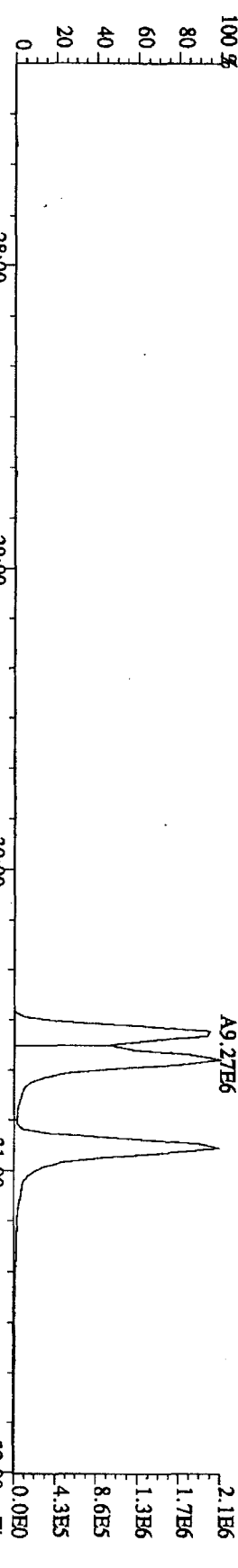
File: 29OCT101D5 #1-422 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINRES
 355.8546 S:8 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4052,0,1.00%,F,T)



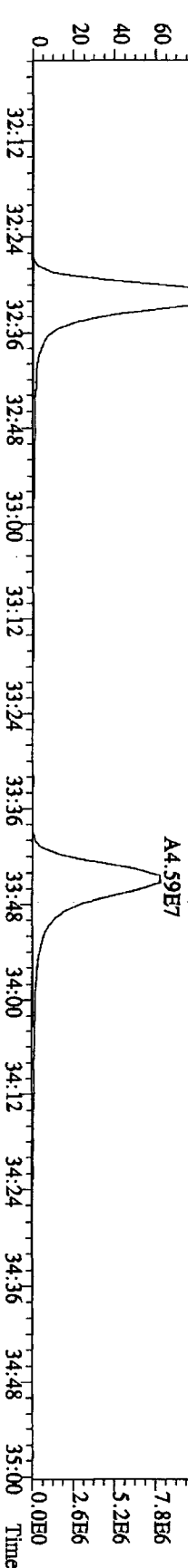
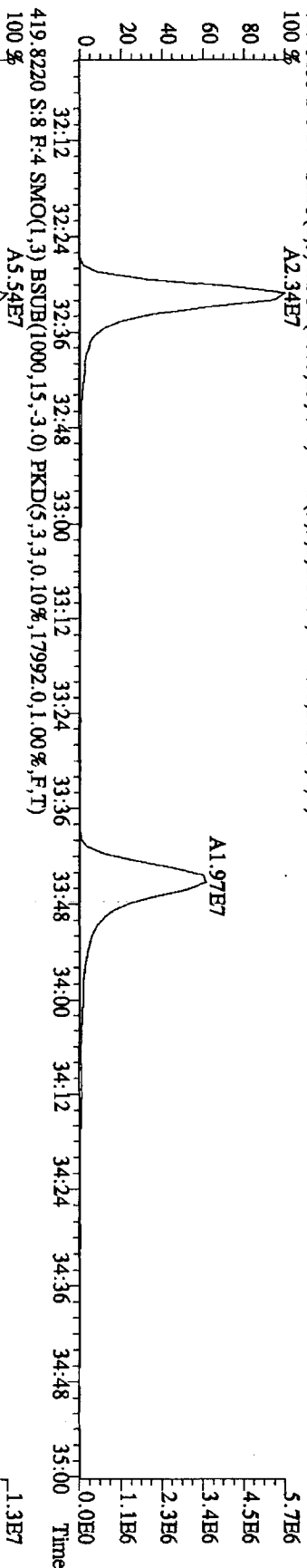
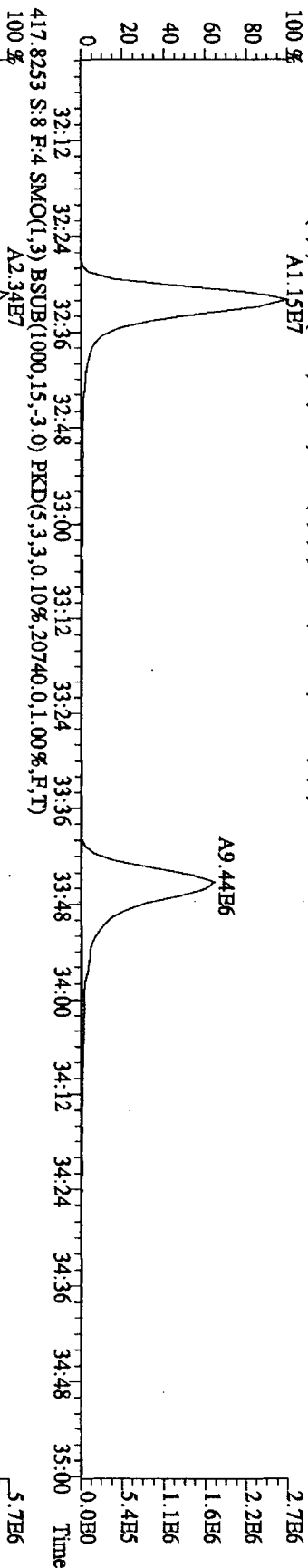
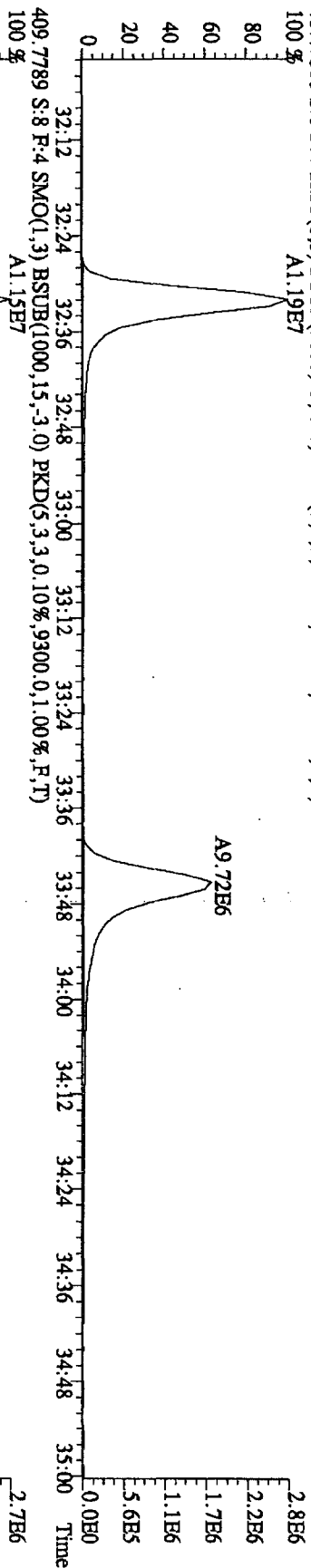
File: 29OCT101D5 #1-301 Acq: 29-OCT-2010 10:48:50 GC HE+ Voltage SHR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINRES
 373.8208 S: 8 F: 3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.7760,0.1,00%,F,T)



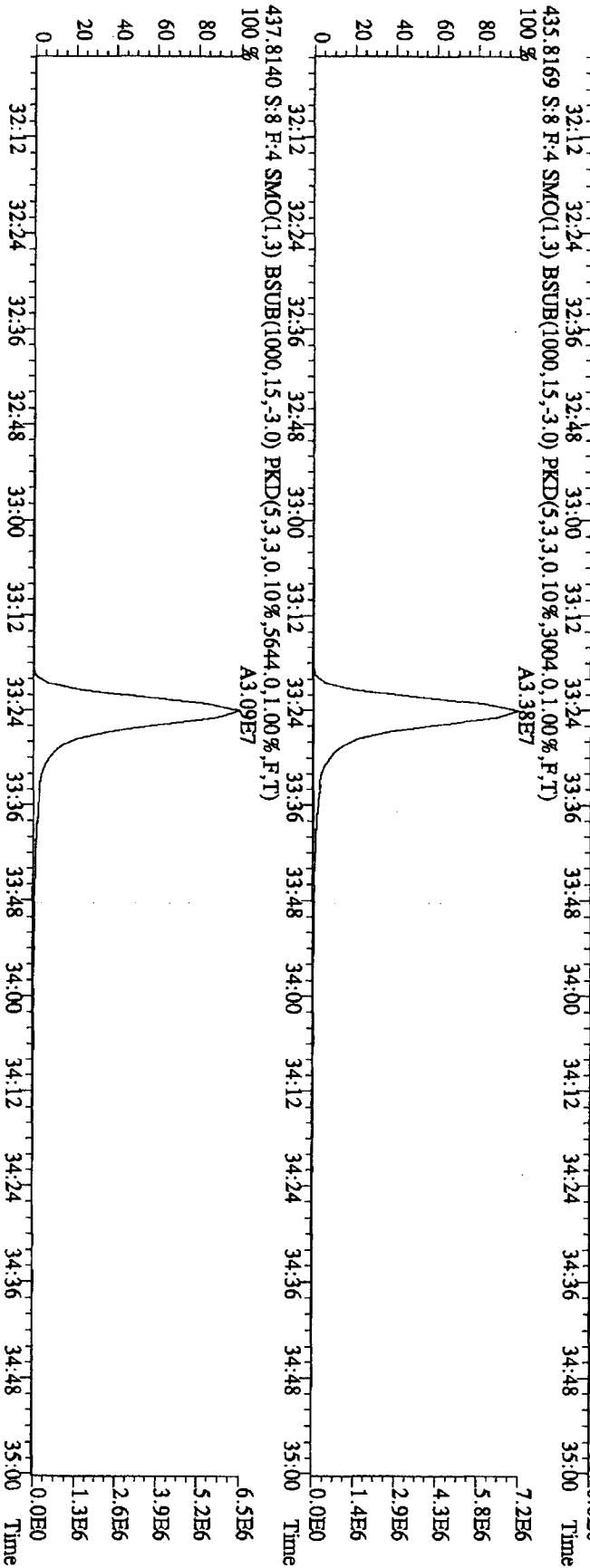
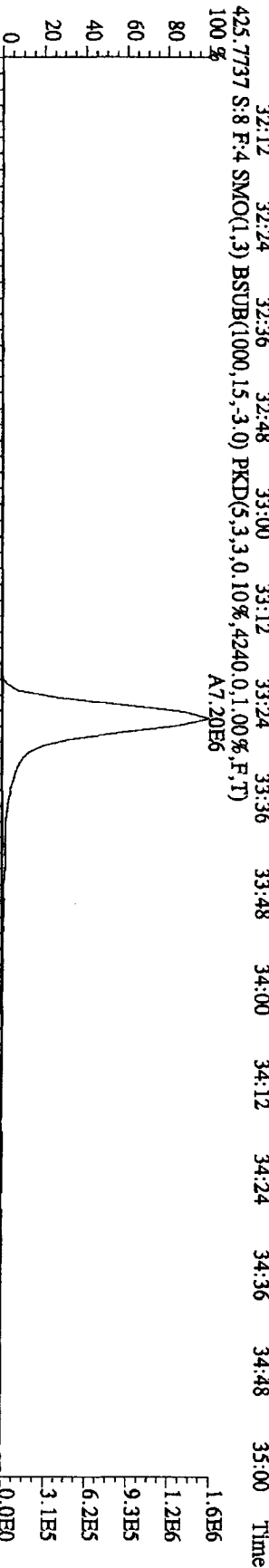
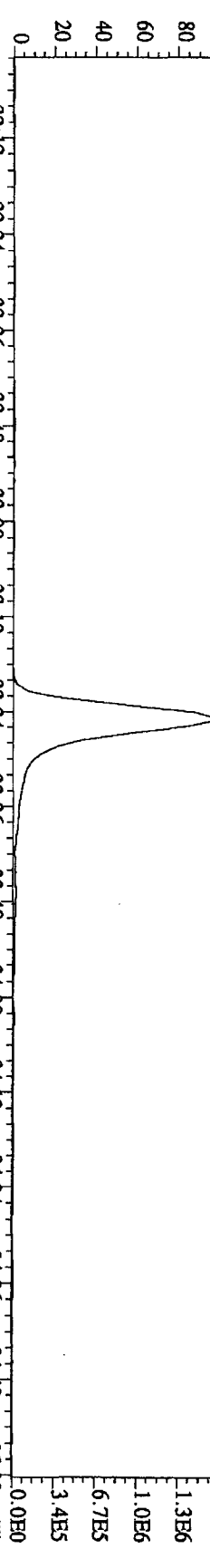
File: 29OCT10ID5 #1-301 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINRES
 389.8157 S: 8 F: 3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4172.0,1.00%,F,T)
 100%



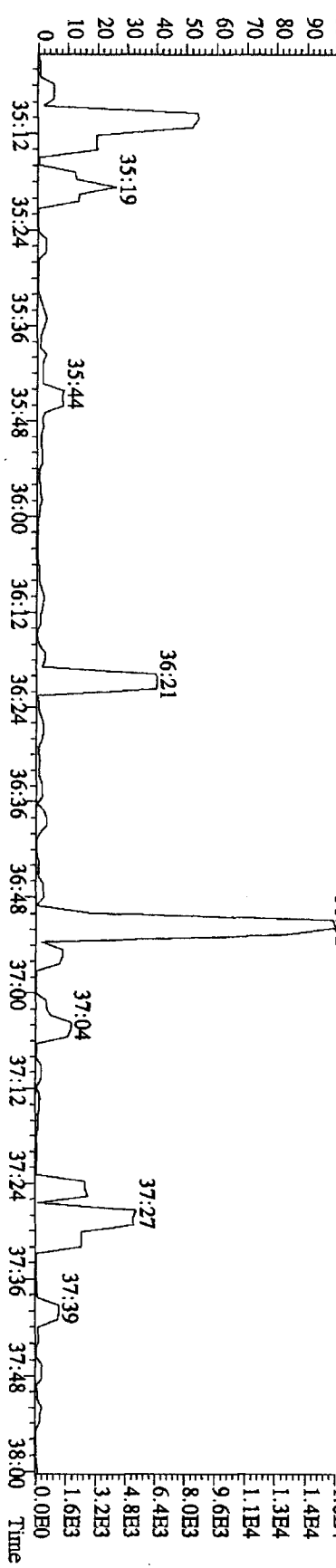
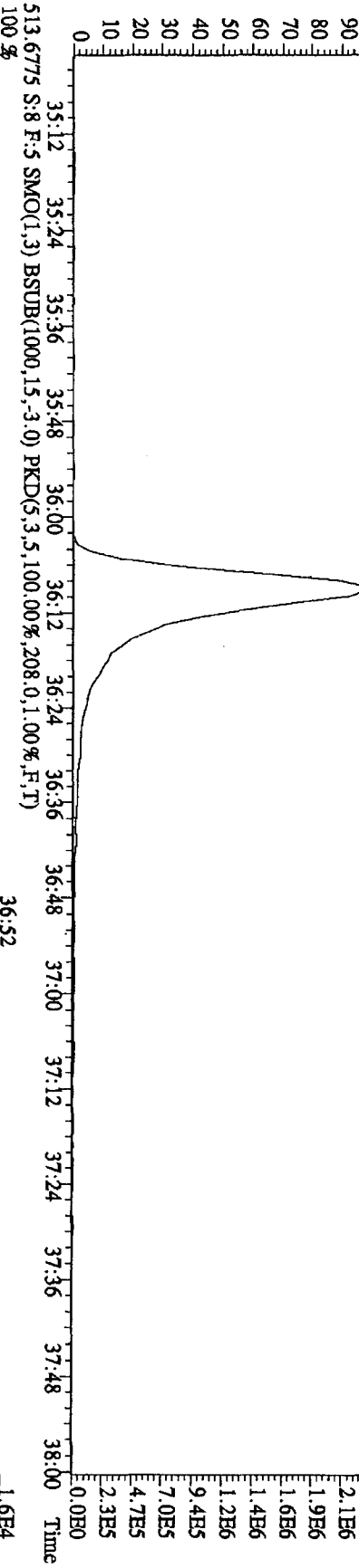
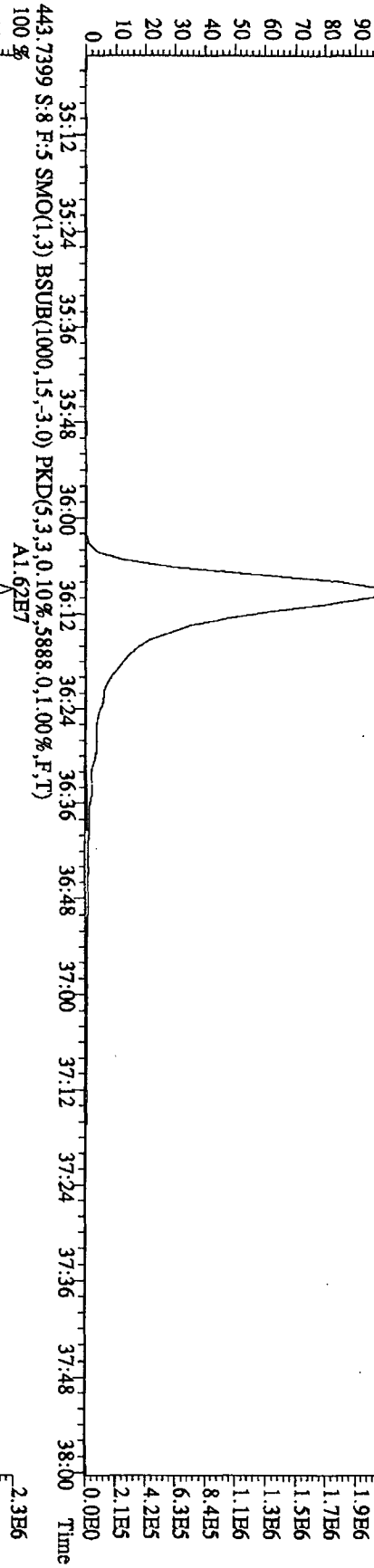
File: 29OC101D5 #1-203 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage: SIR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINRES
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9888,0,1.00%,F,T)
 100%



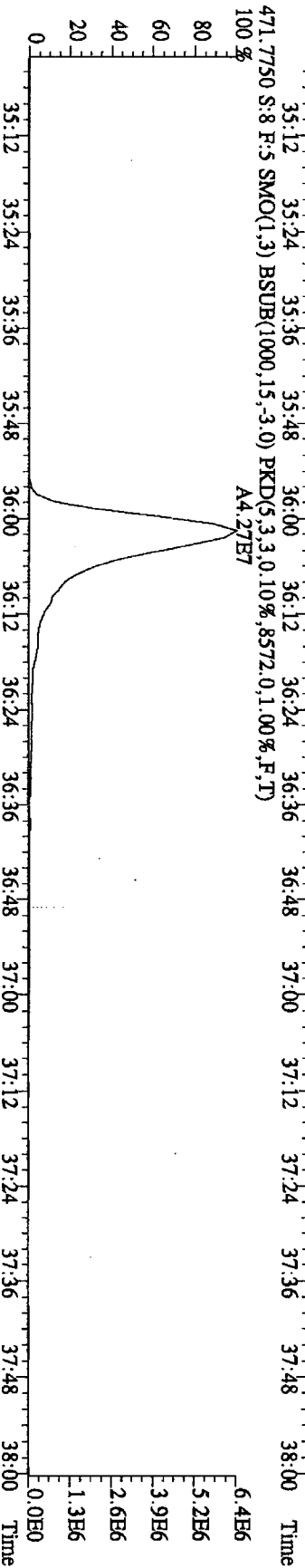
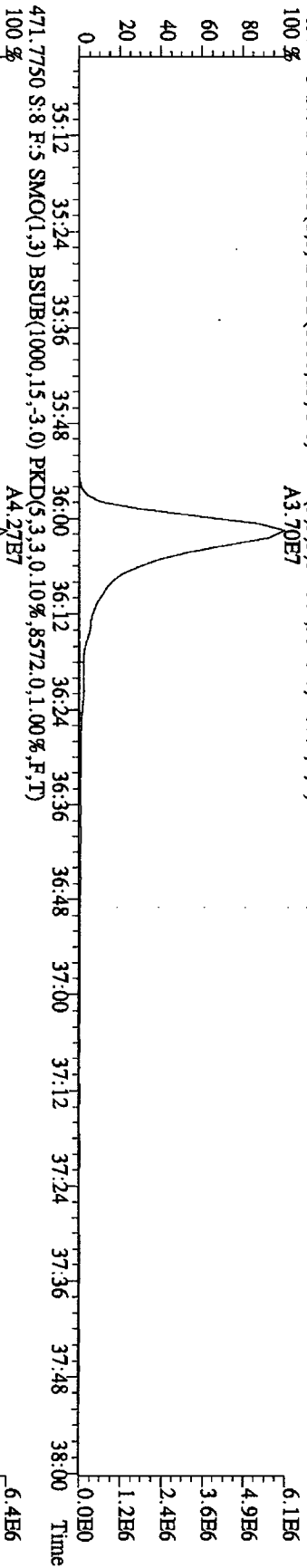
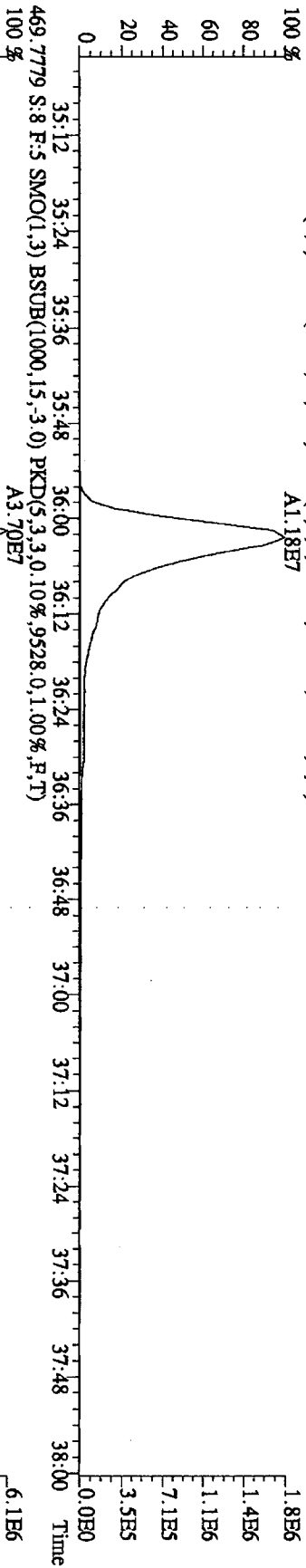
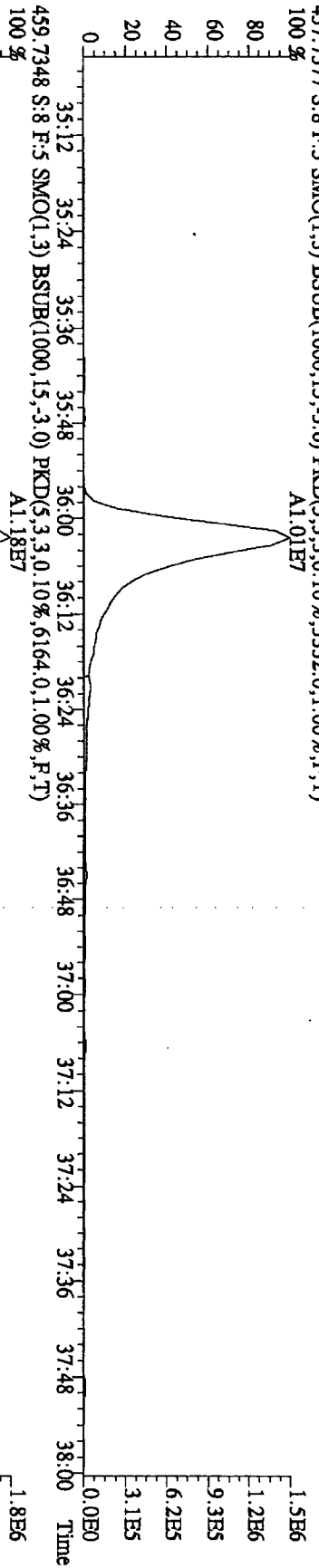
File: 290C101D5 #1-203 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F : 2nd Source 10DXN340 Exp: DIOXINES
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3880,0,1,00%,F,T)
 100%

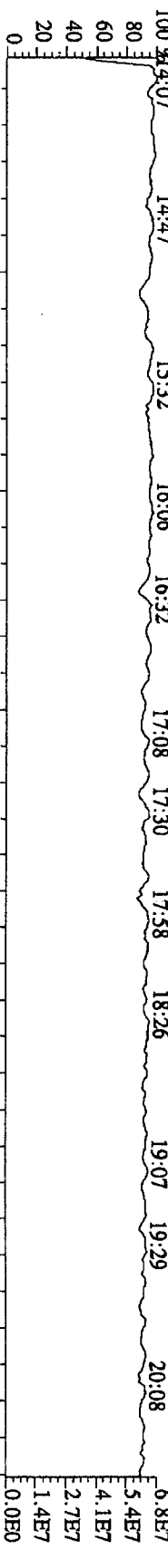
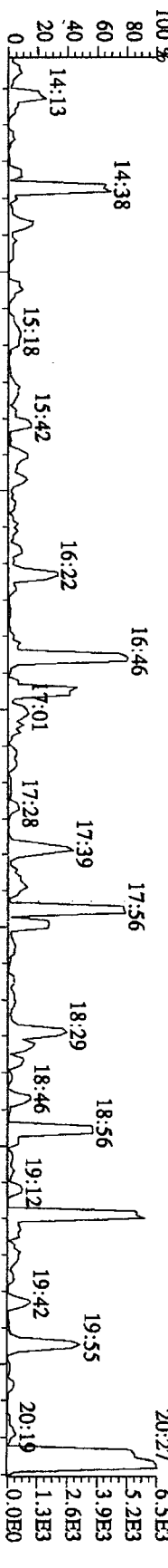
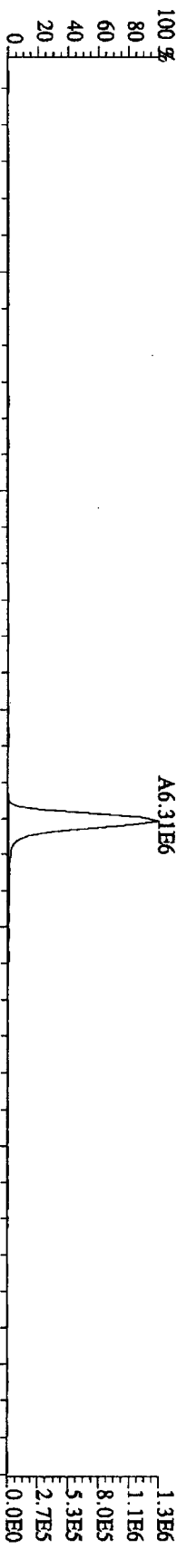
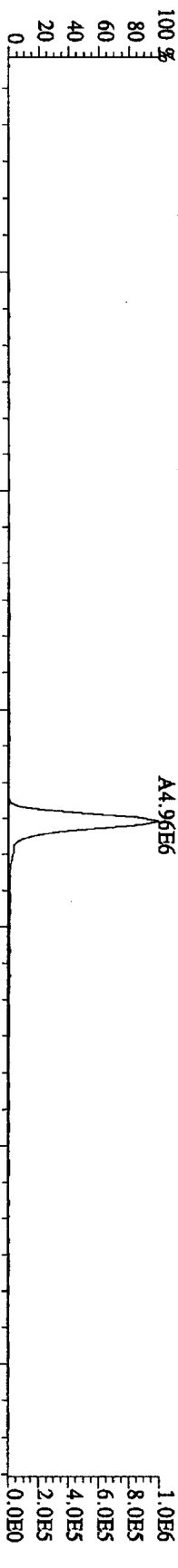
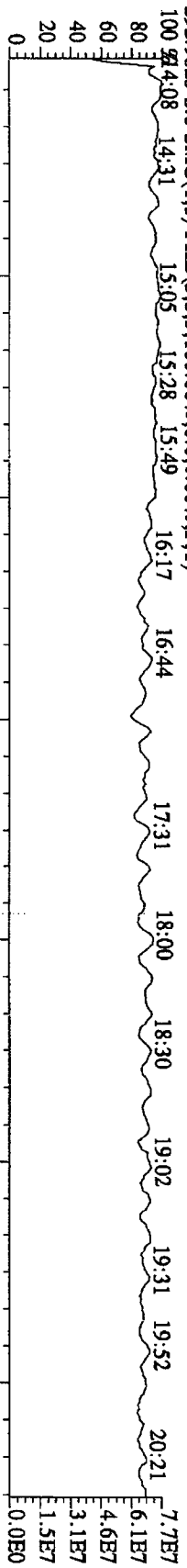


File: 29OC101D5 #1-196 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES
 441.7428 S:8 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4732.0,1.00%,F,T)
 100% A1.51E7



File:29OC101D5 #1-196 Acq:29-OCT-2010 10:48:50 GC HI + Voltage SIR 70SE
 Sample#8 Text:ST1029F 2nd Source 10DXN340 Exp:DIOXINRES
 457.7377 S:8 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3.3,0.10%,3332,0.1,00%,F,T)
 100%



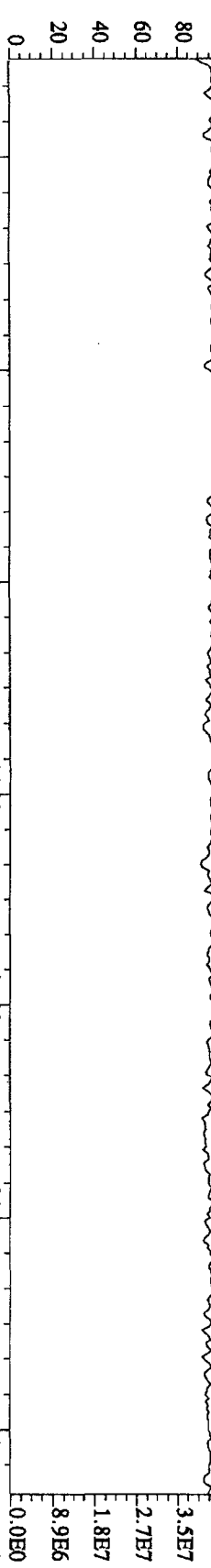


File: 29OCT101D5 #1-422 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE

Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES

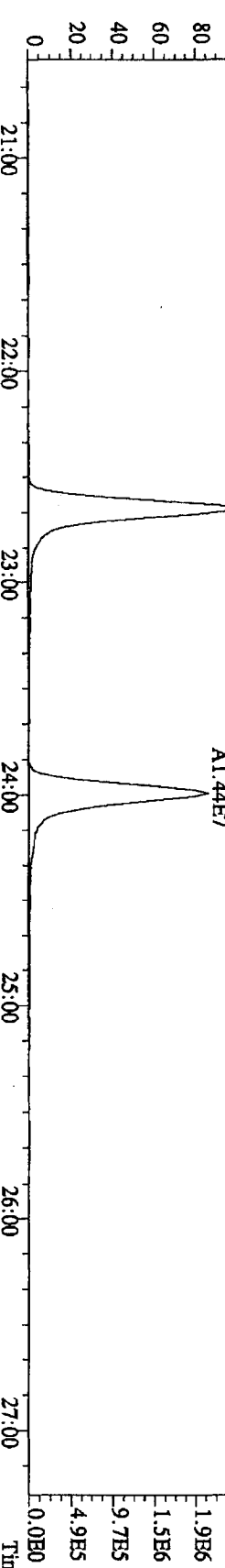
342.9792 S: 8 F: 2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

100% 21:00 21:23 21:56 22:27 22:48 23:17 23:49 24:29 25:00 25:26 25:56 26:20 26:42



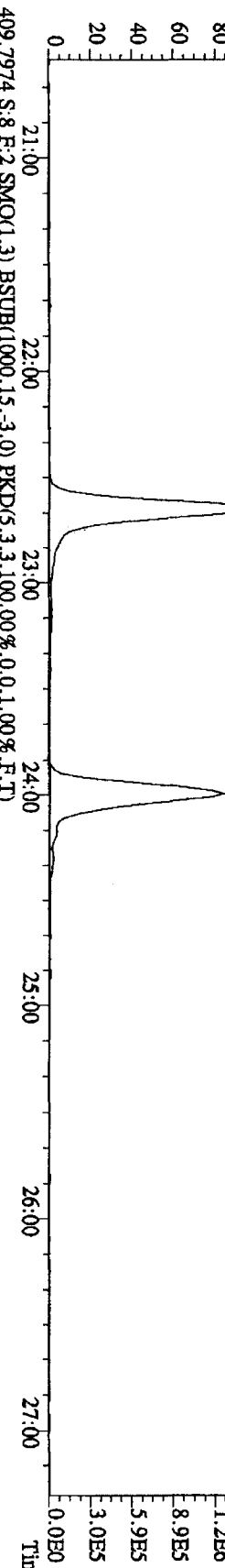
339.8597 S: 8 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4400,0,1,00%,F,T)

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



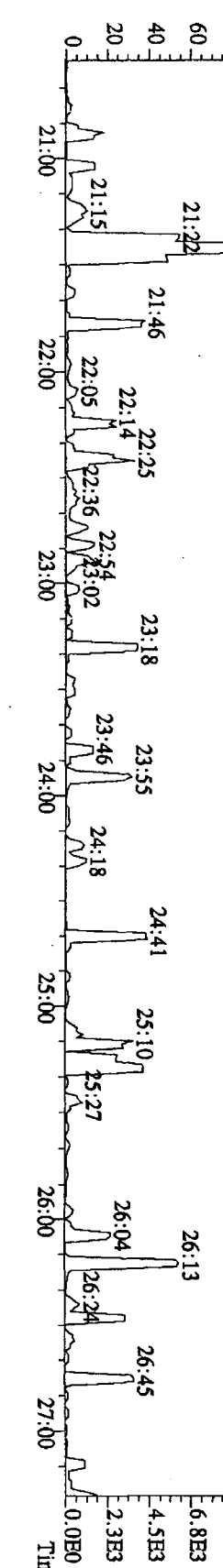
341.8567 S: 8 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5128,0,1,00%,F,T)

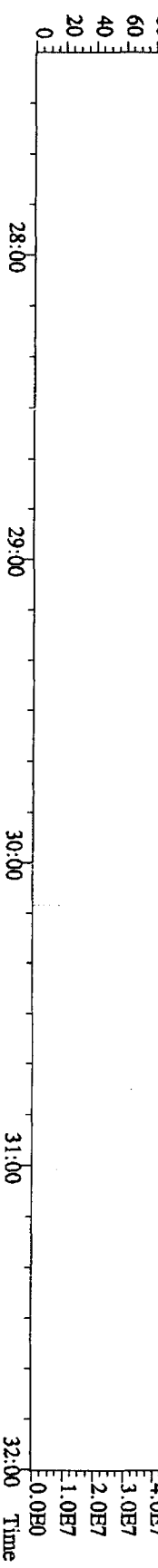
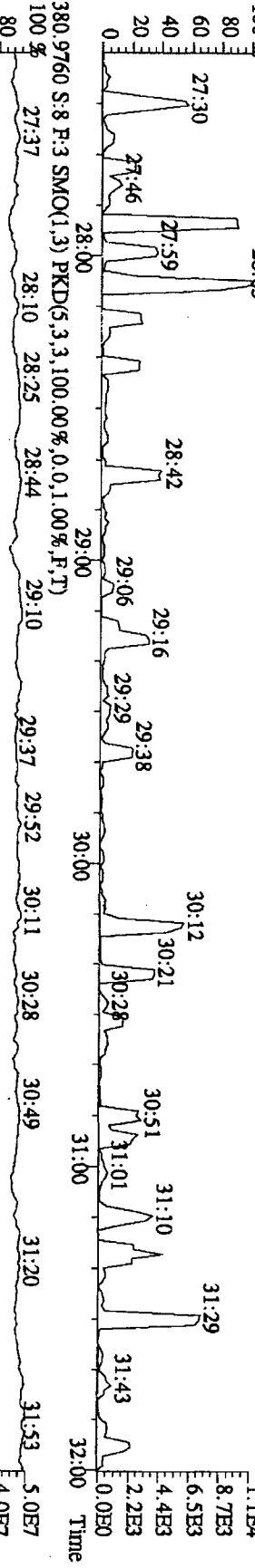
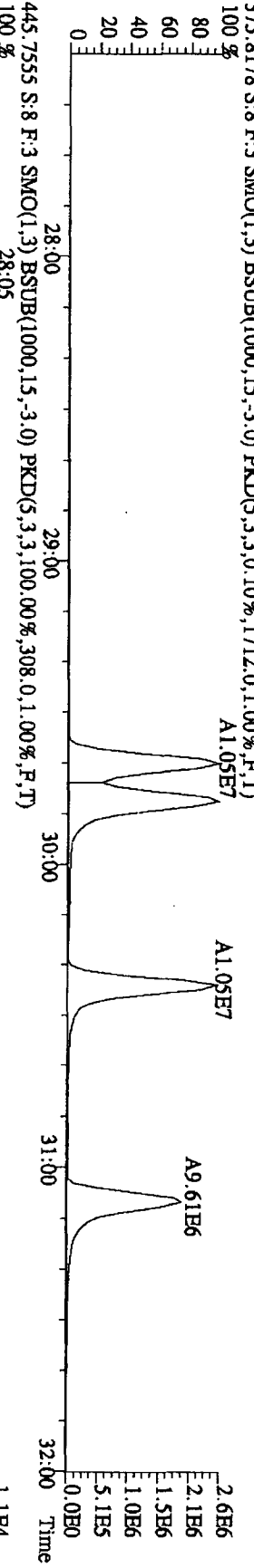
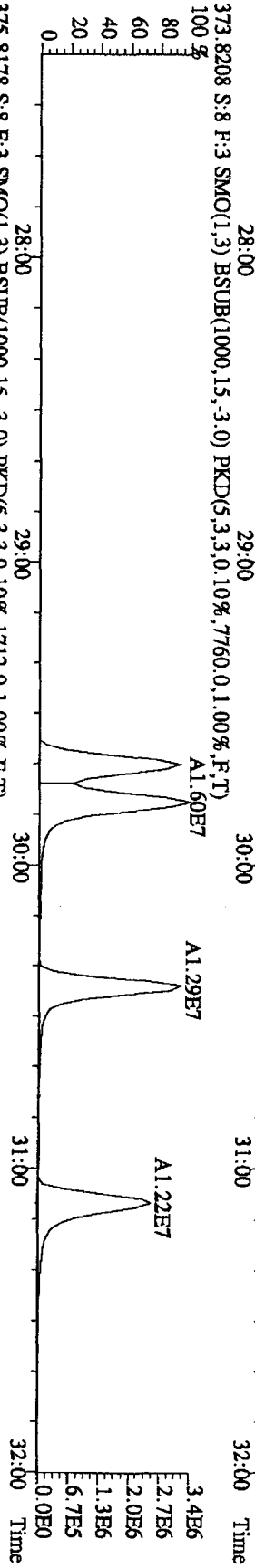
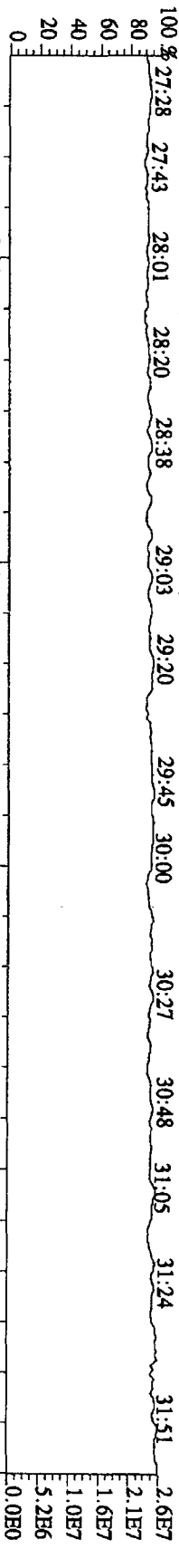
100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



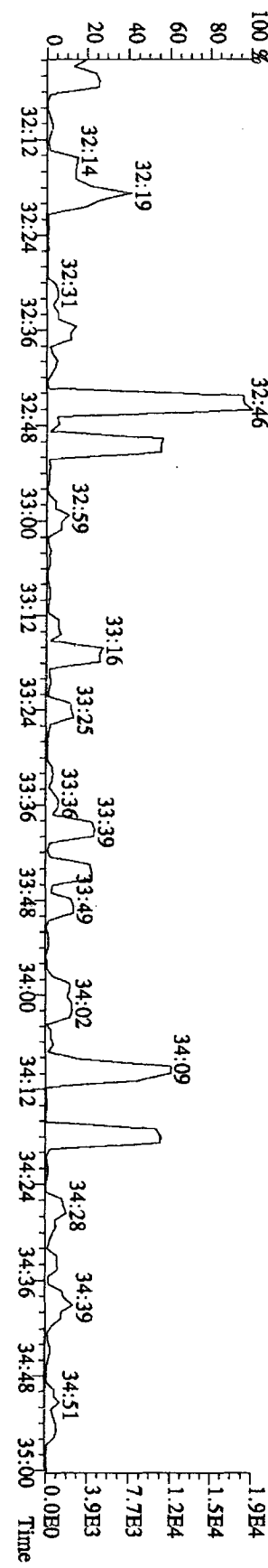
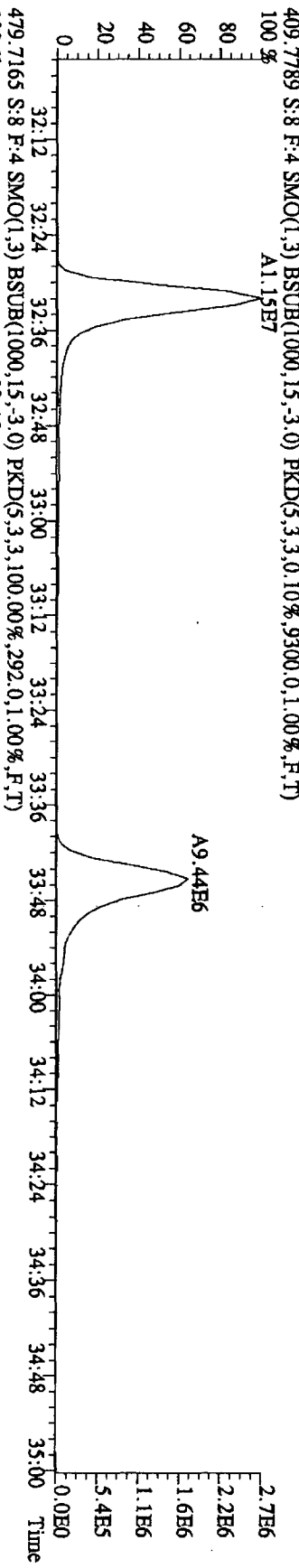
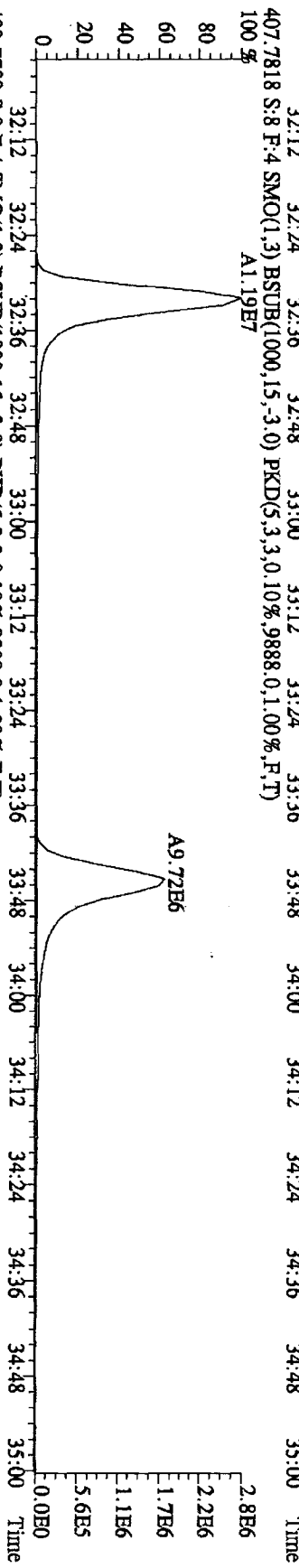
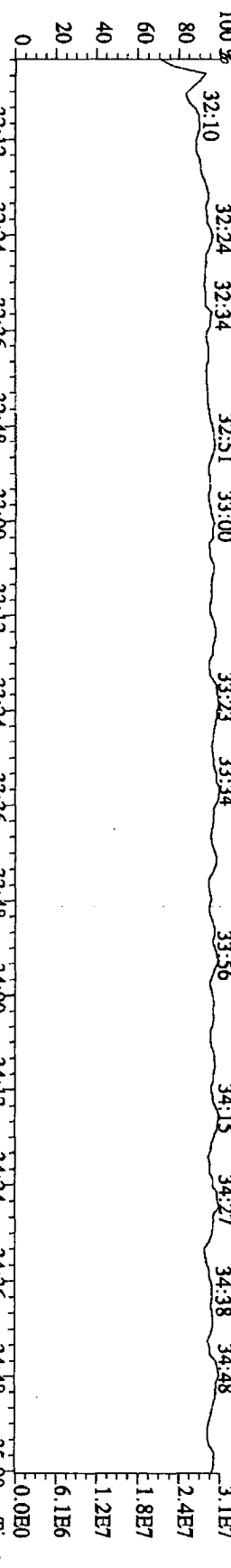
409.7974 S: 8 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

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

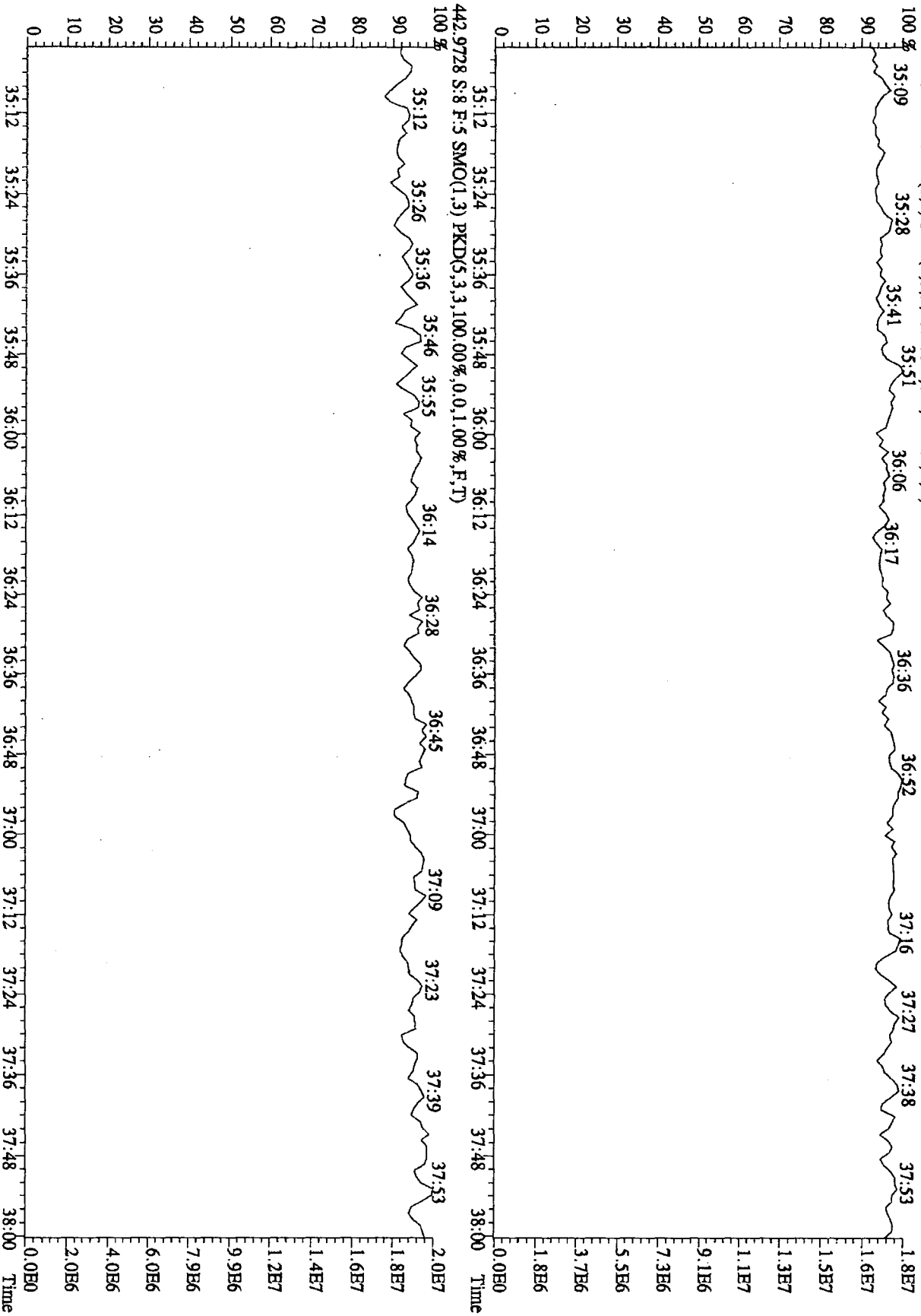




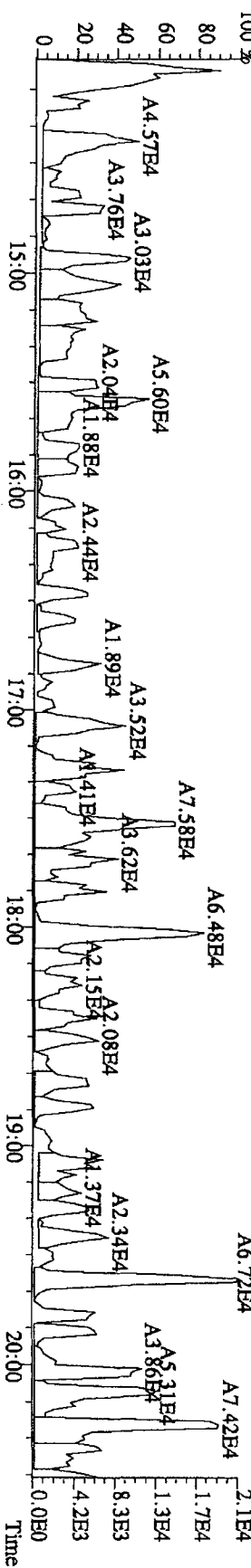
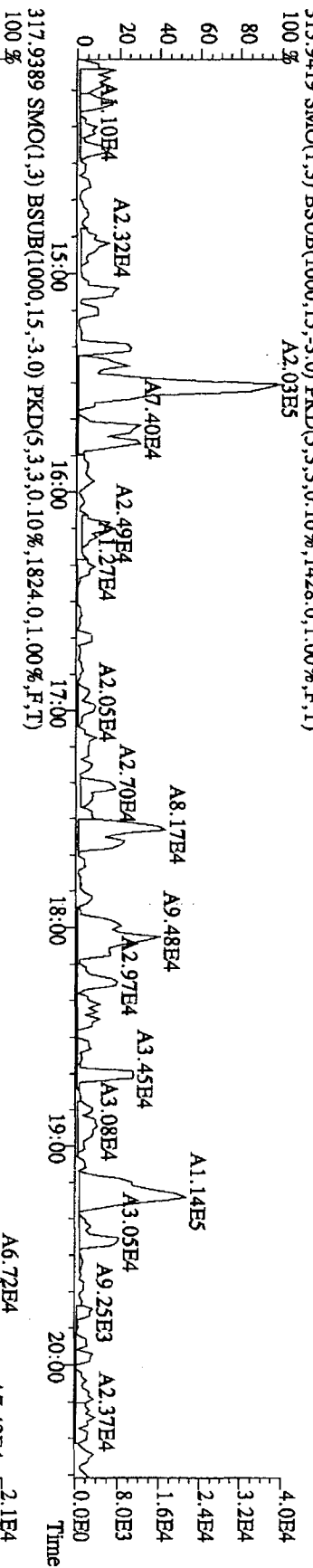
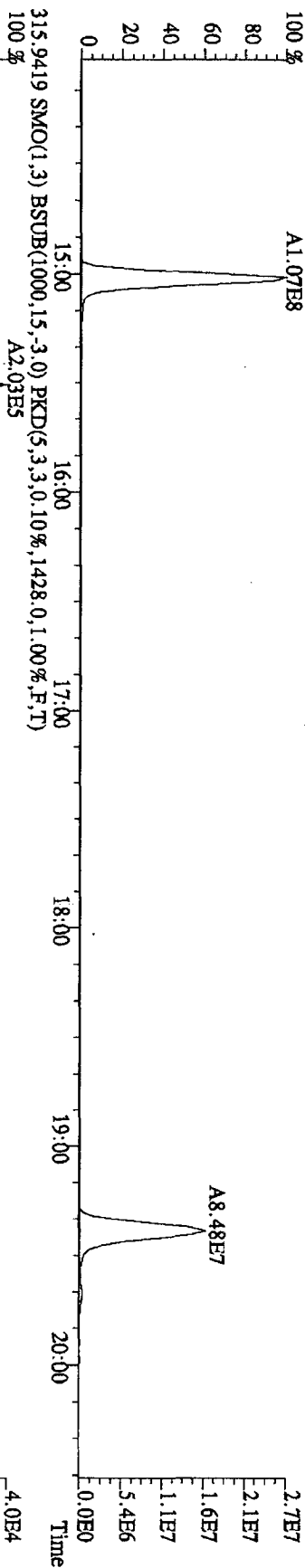
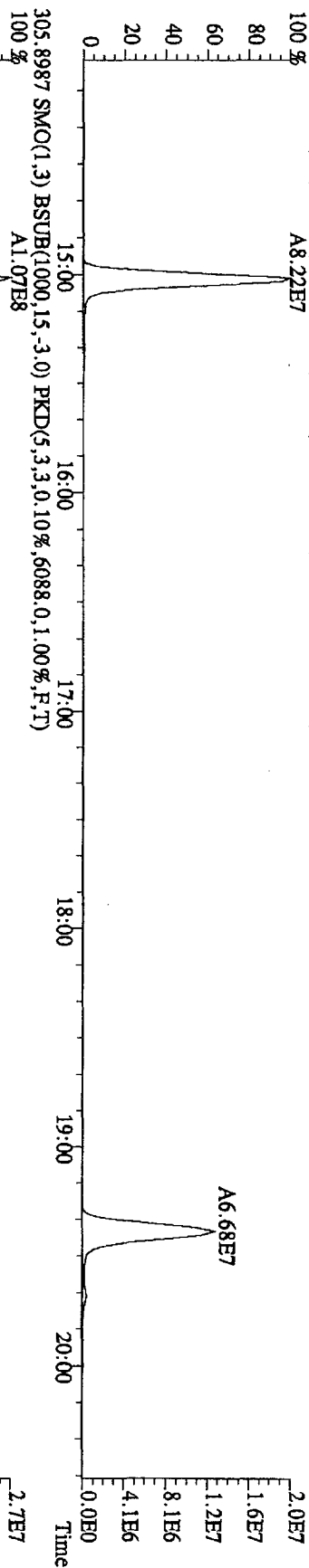
File: 29OC101D5 #1-203 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage: SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES



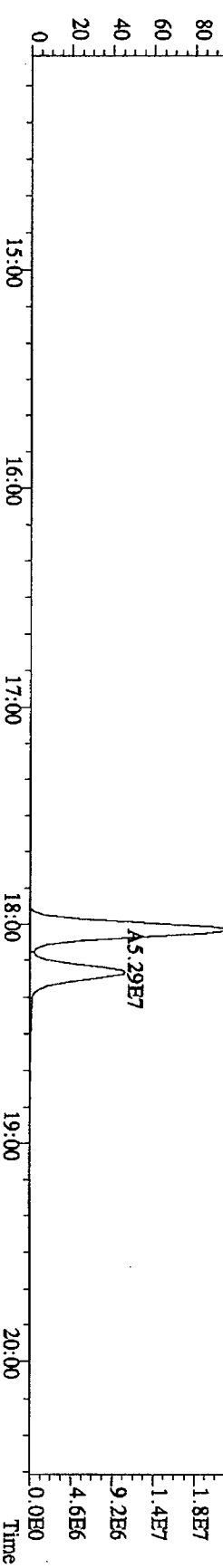
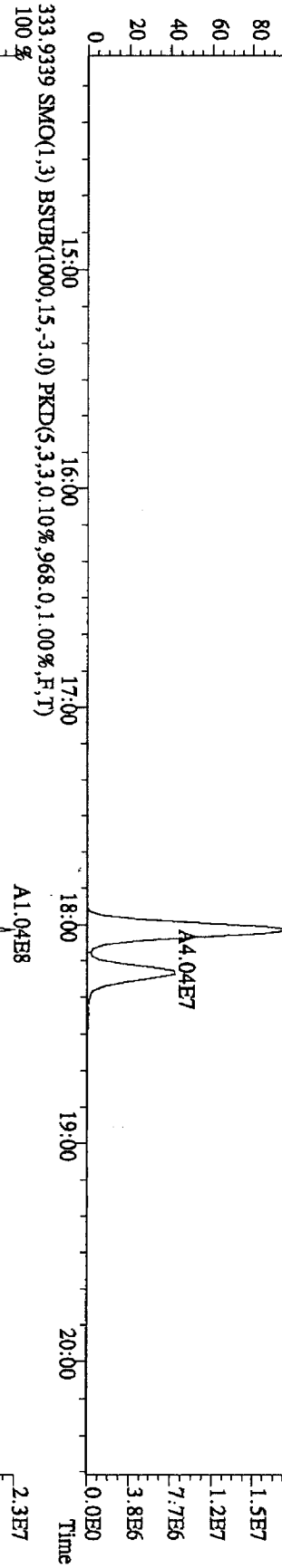
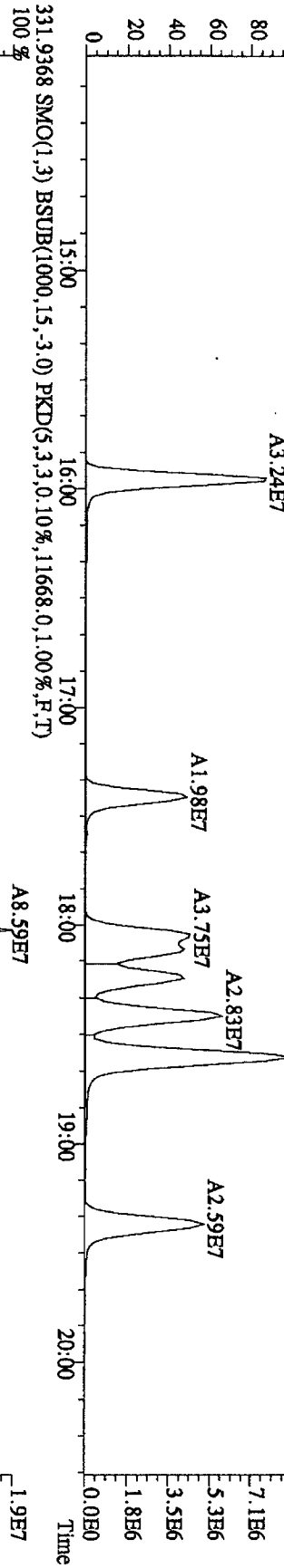
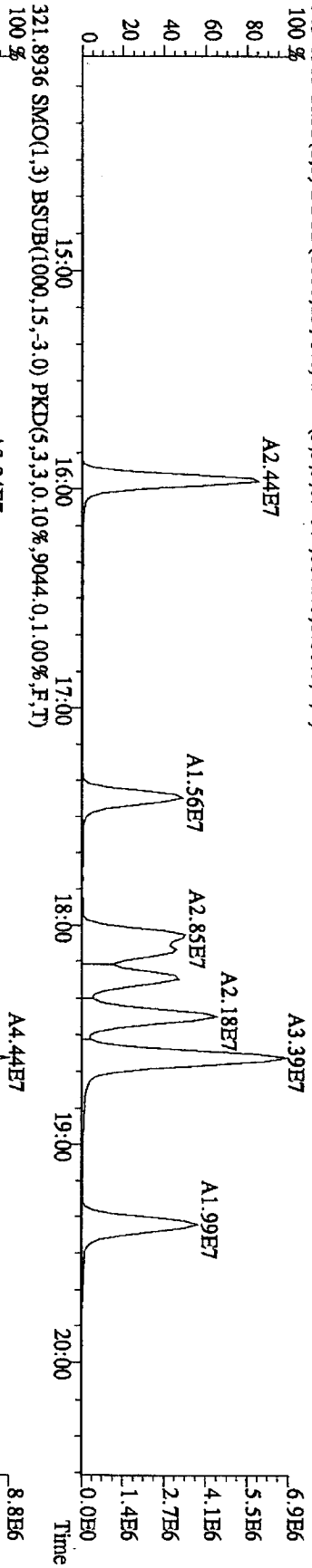
File: 29OCT101D5 #1-196 Acq: 29-OCT-2010 10:48:50 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1029F 2nd Source 10DXN340 Exp: DIOXINRES
 454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



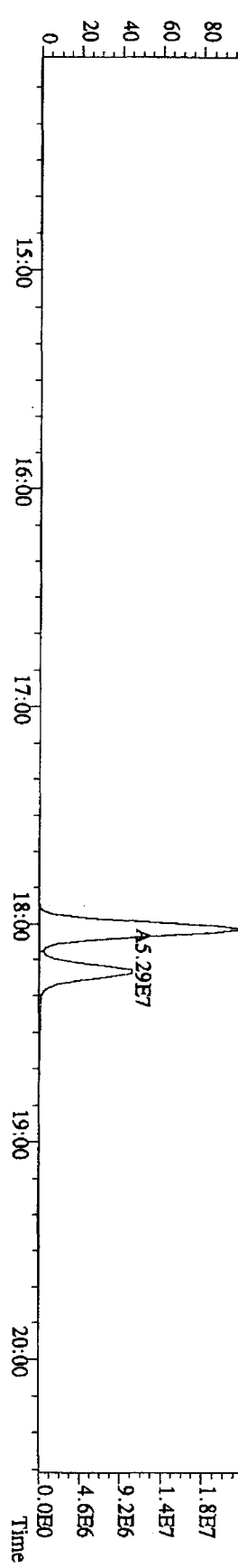
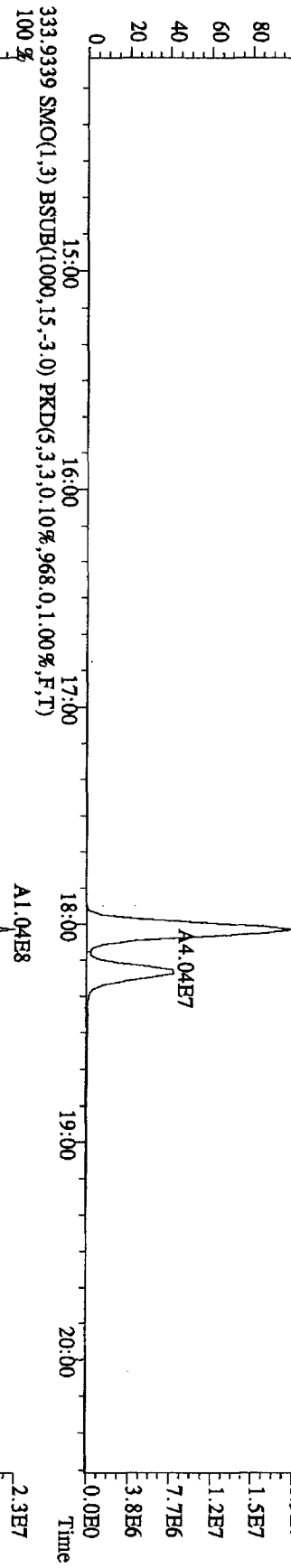
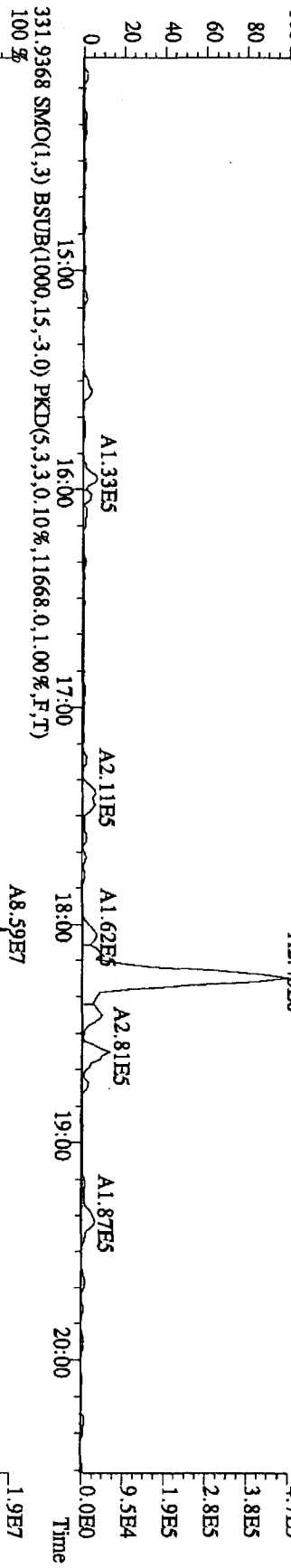
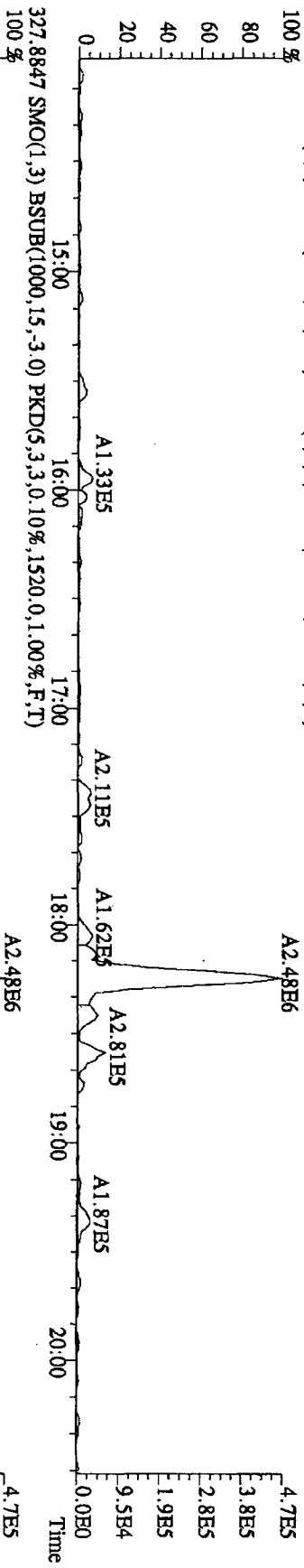
File: 290C101D5 #1-382 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 705E
 Sample#1 Text: CP1029 : DB-5 CP5M 3732-10 Exp: DIOXINRES
 303.9016 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4460,0.1,00%,F,T)
 100% A8.22E7



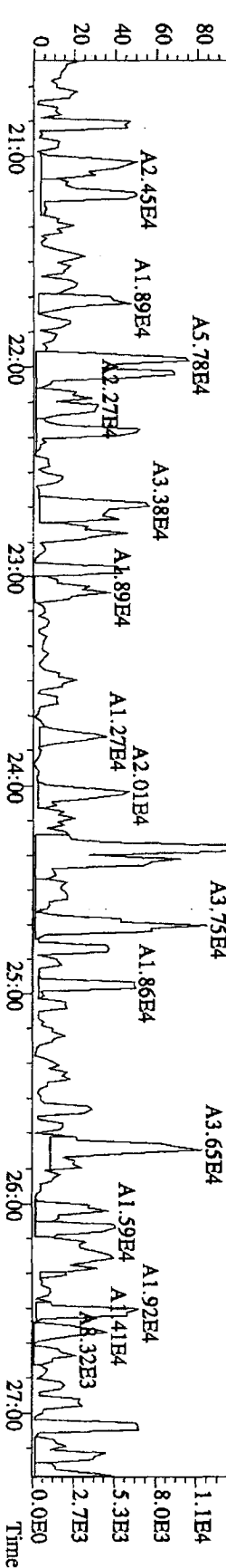
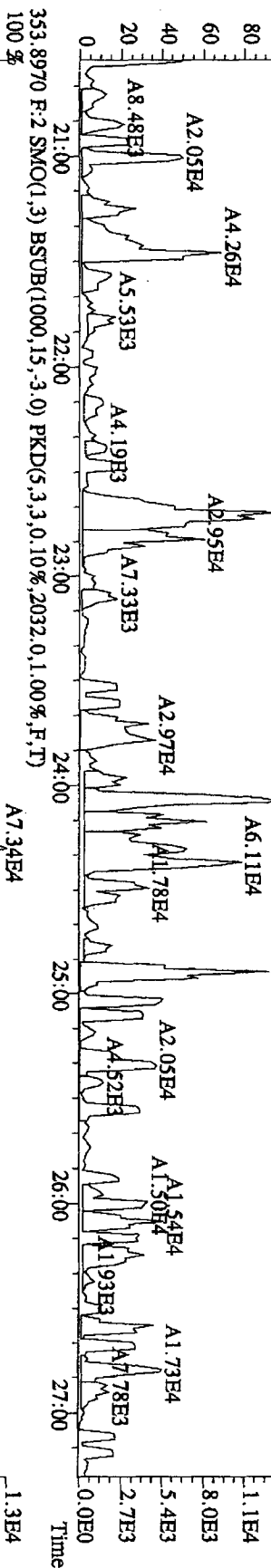
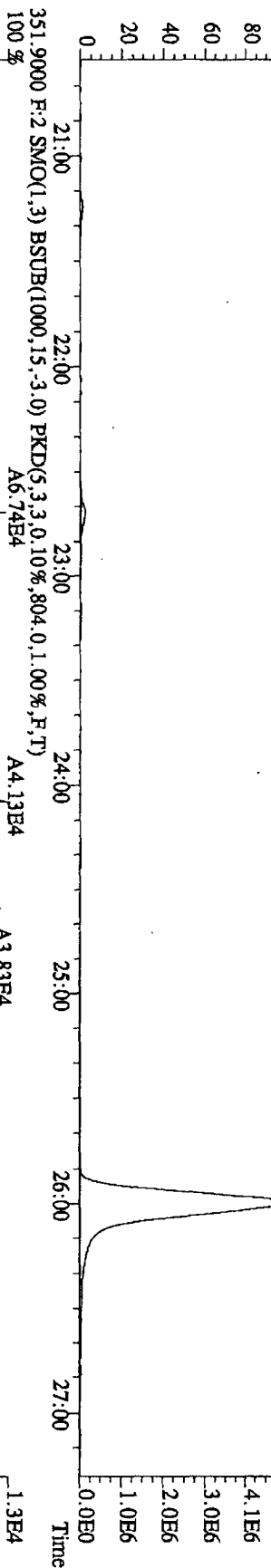
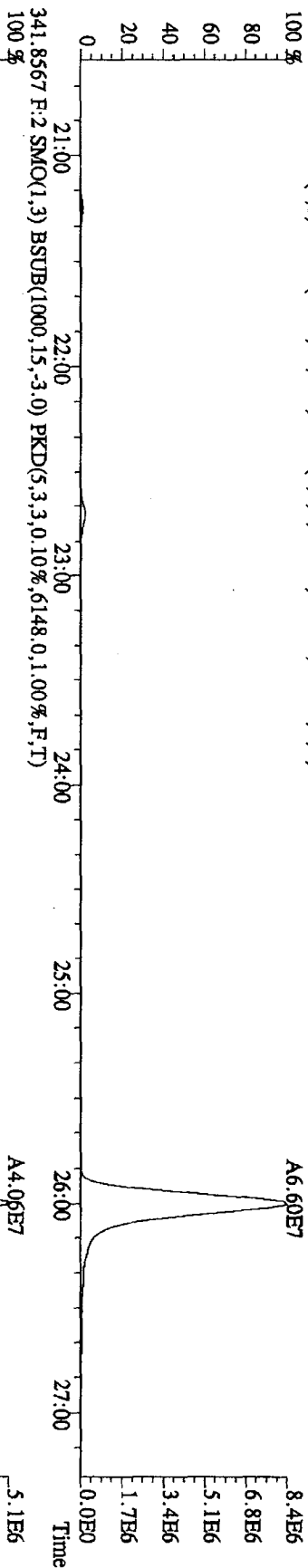
File: 29OCC101D5 #1-382 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CPSM 3732-10 Exp: DIOXINRES
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,6672.0,1.00%,F,T)
 100%



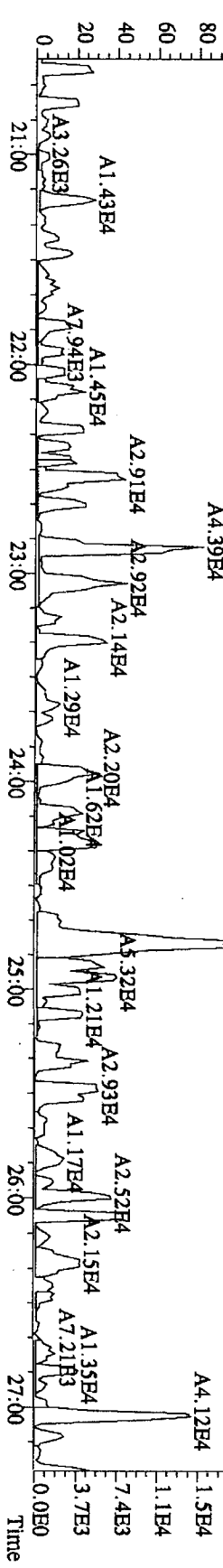
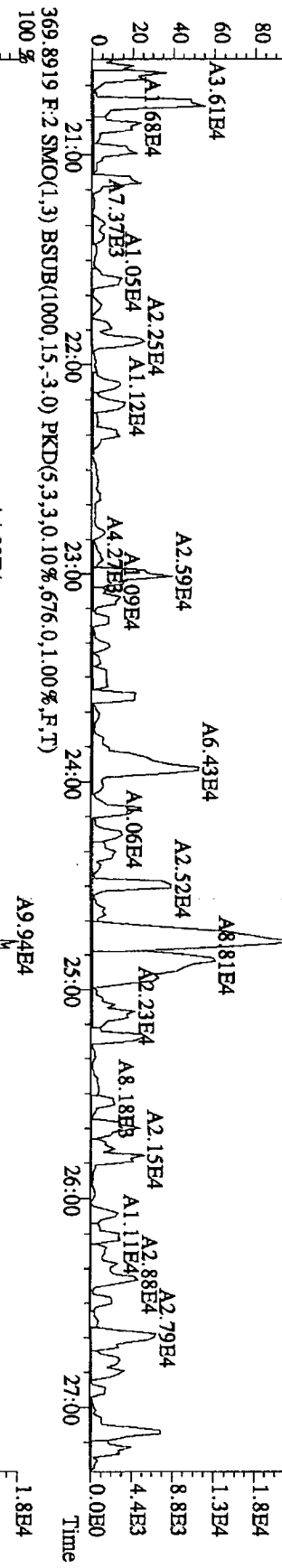
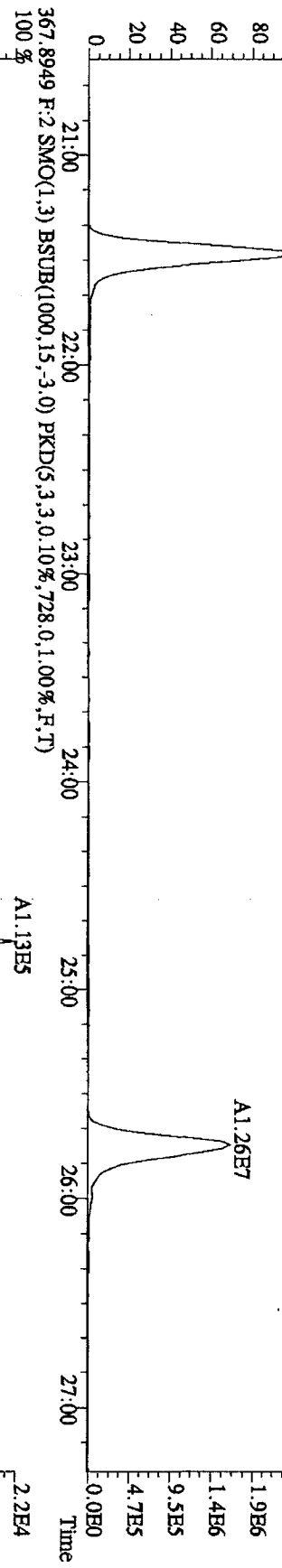
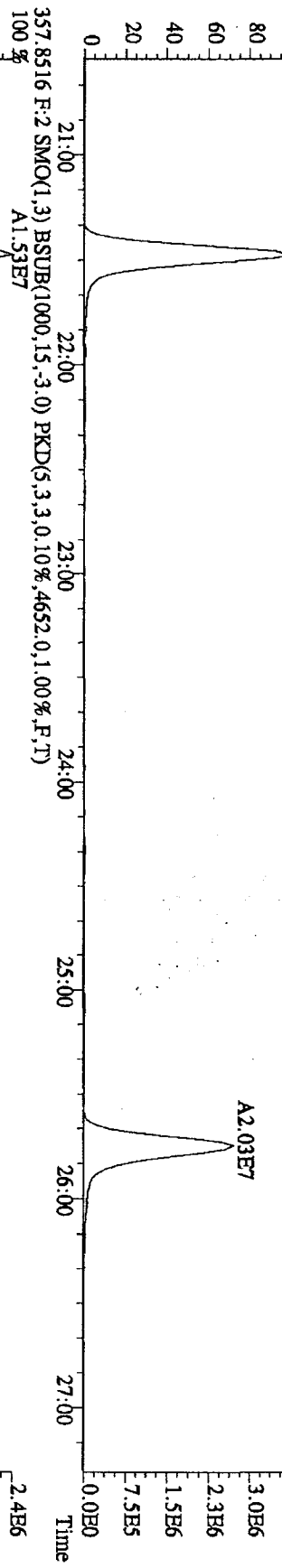
File: 29OC101D5 #1-382 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CPSM 3732-10 Exp: DIOXINRES
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1520.0,1.00%,F,T)
 100 %



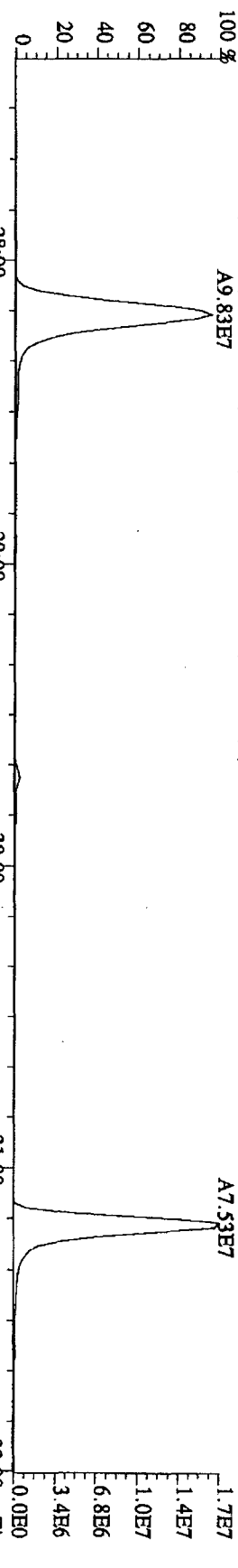
File:29OC101D5 #1.422 Acq:29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1029 :DB-5 CPM 3732-10 Exp:DIOXINES
 339.8597 F:2.SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6004,0.1,00%,F,T)



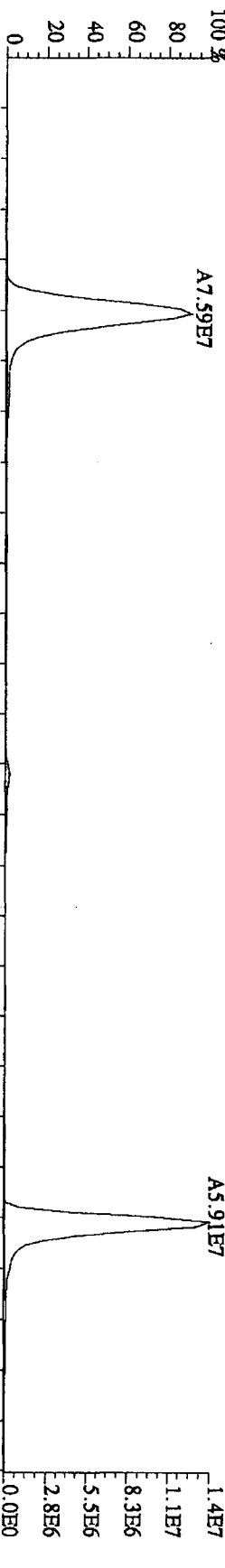
File: 29OCT1011D5 #1-422 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CFSM 3732-10 Exp: DIOXINRES
 355.8546 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKID(5,3,3,0,10%,7484,0,1,00%,F,T)
 100%



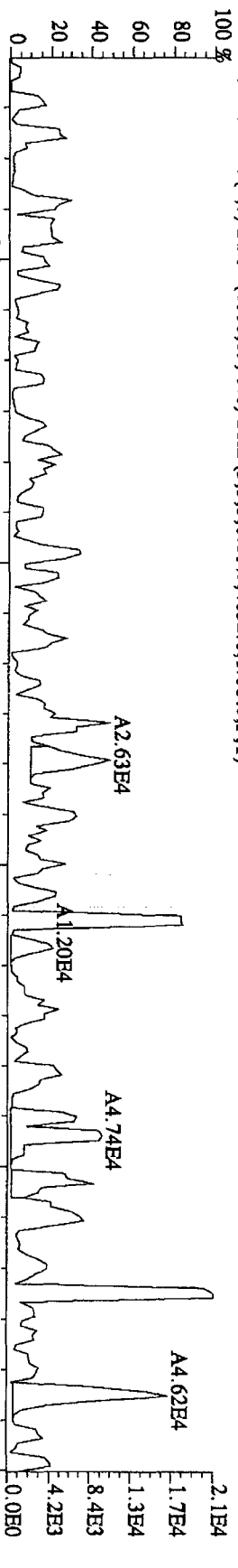
File: 290C101D5 #1-301 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 .DB-5 CPSM 3732-10 Exp: DIOXINES
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7224,0,1,00%,F,T)
 100 %



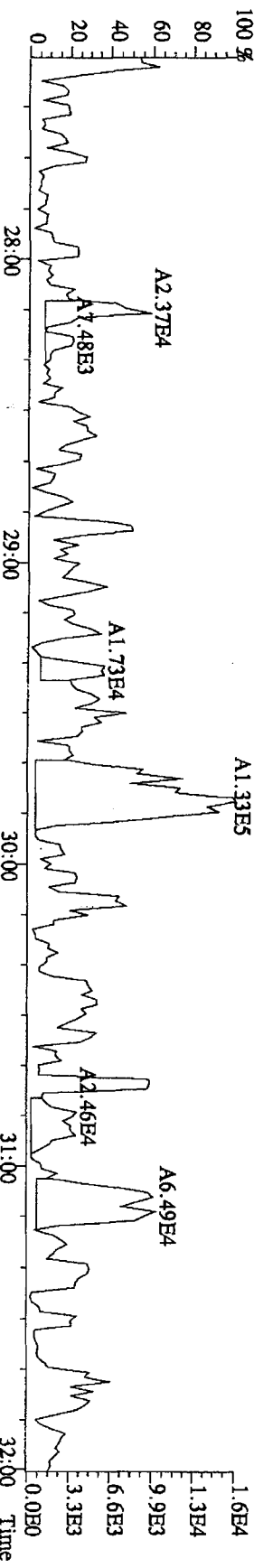
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,14448,0,1,00%,F,T)
 100 %



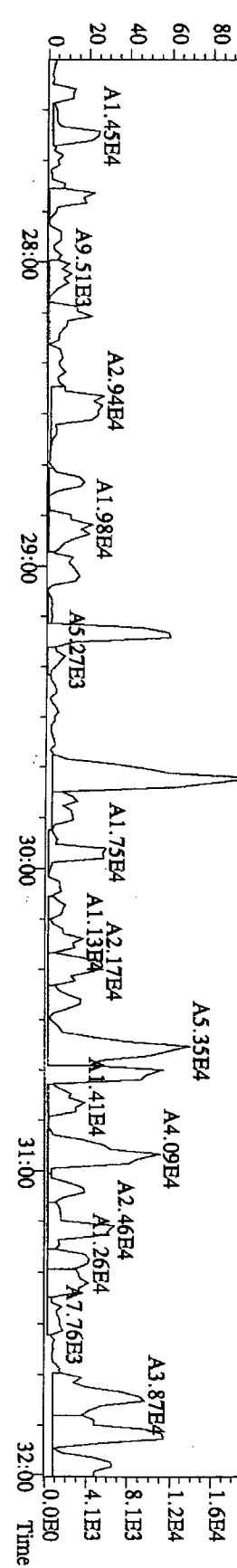
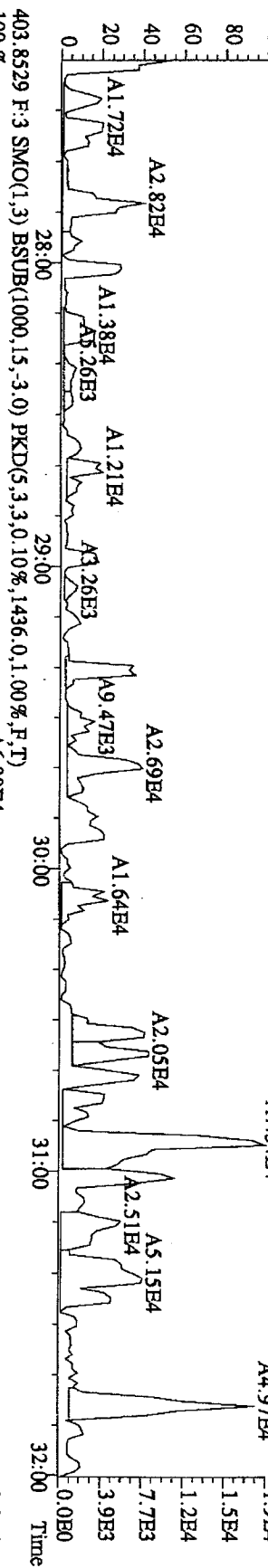
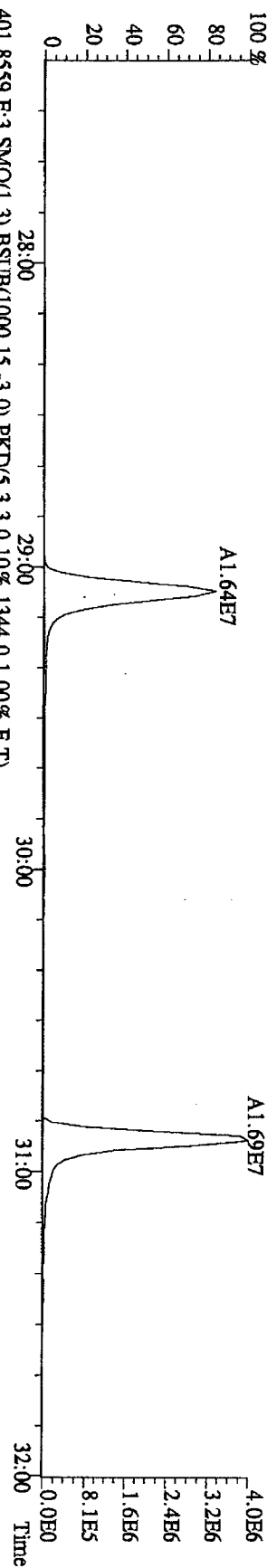
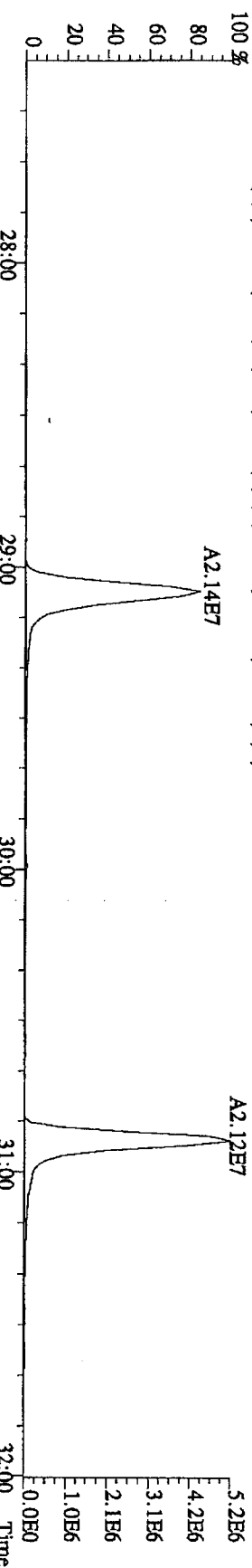
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4632,0,1,00%,F,T)
 100 %



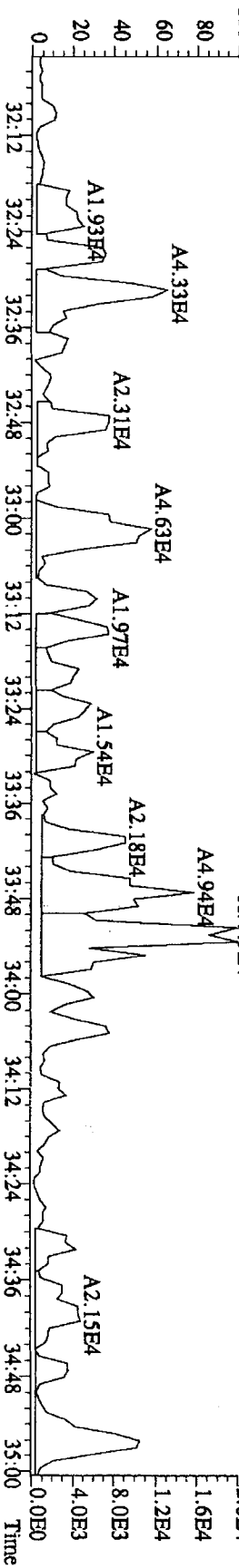
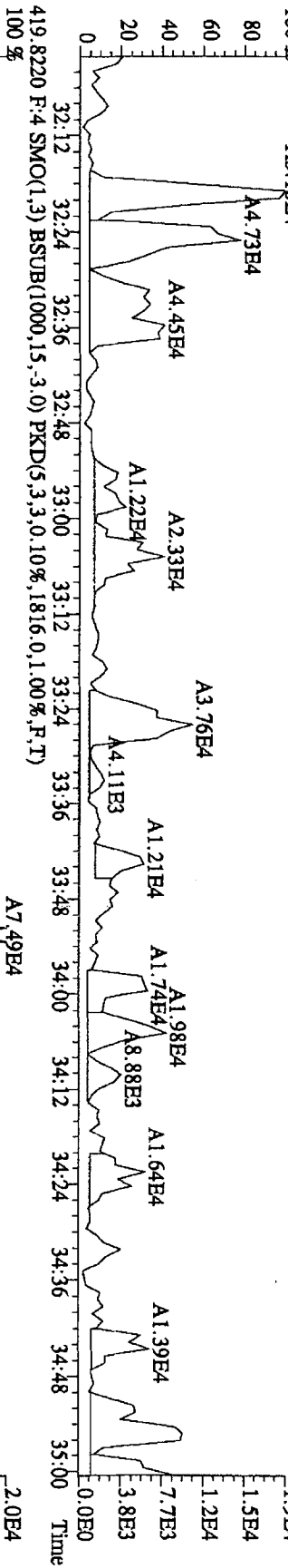
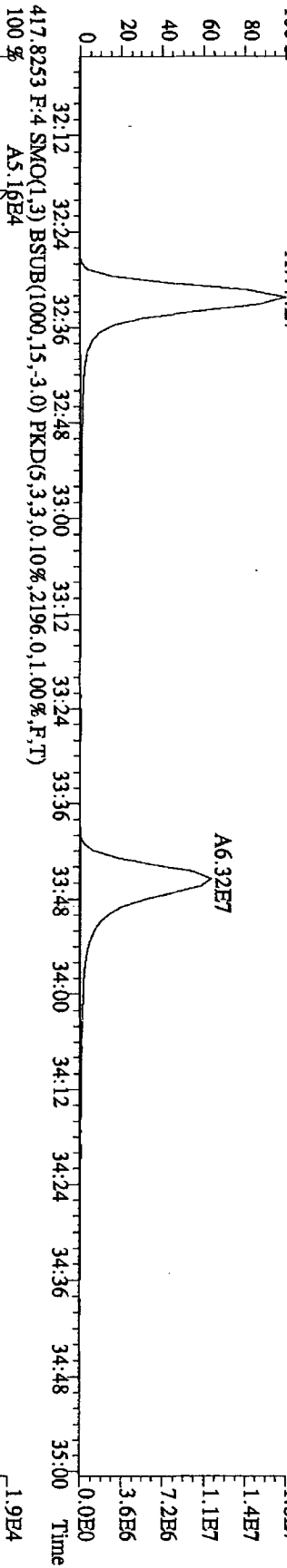
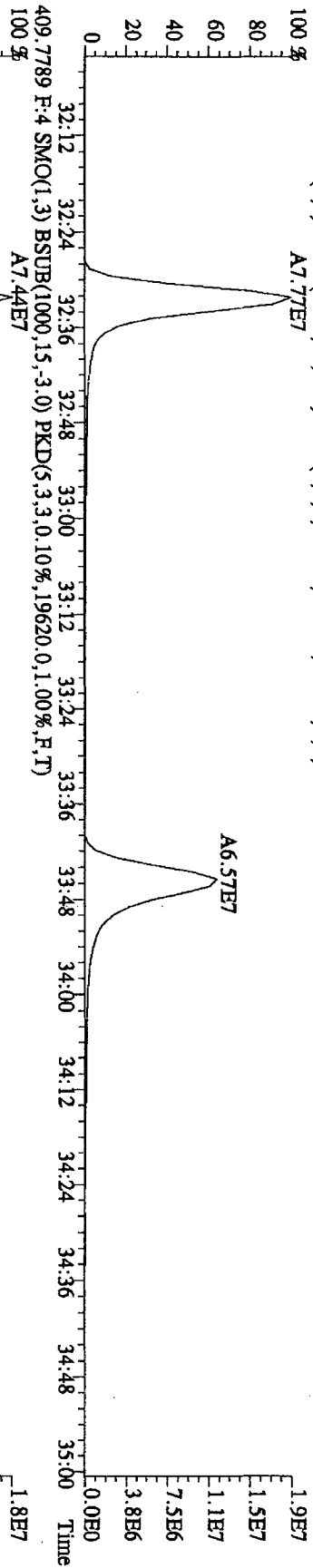
385.8610 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4472,0,1,00%,F,T)
 100 %



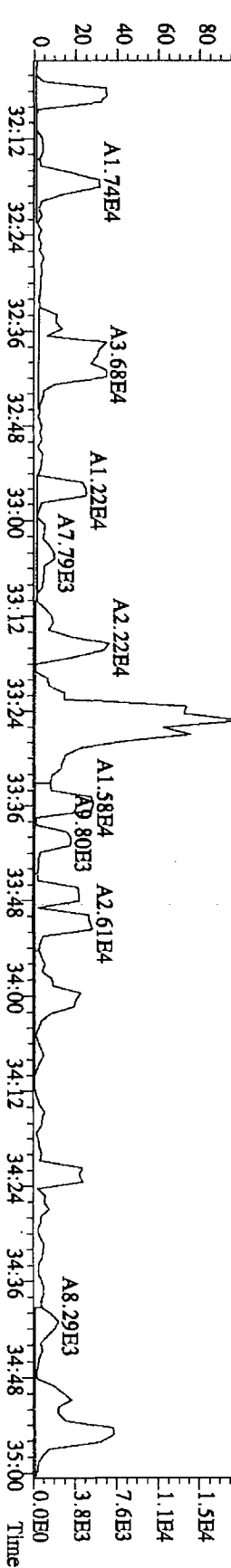
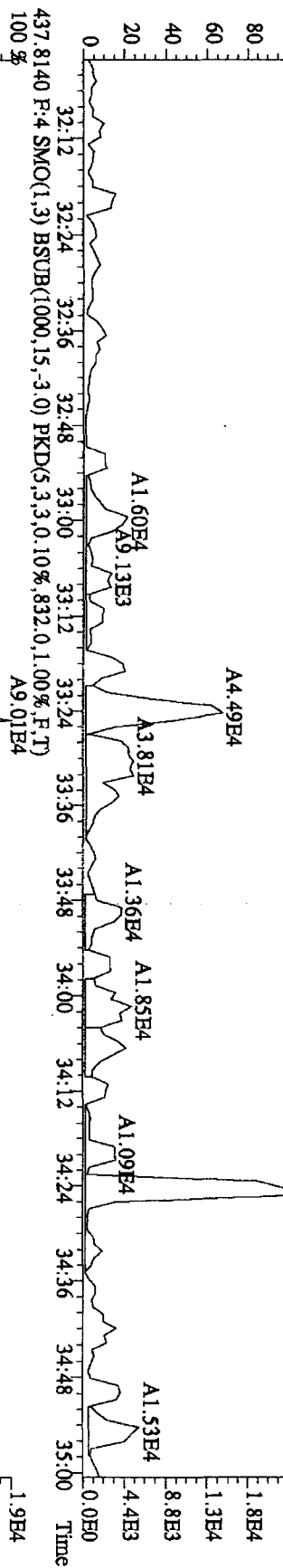
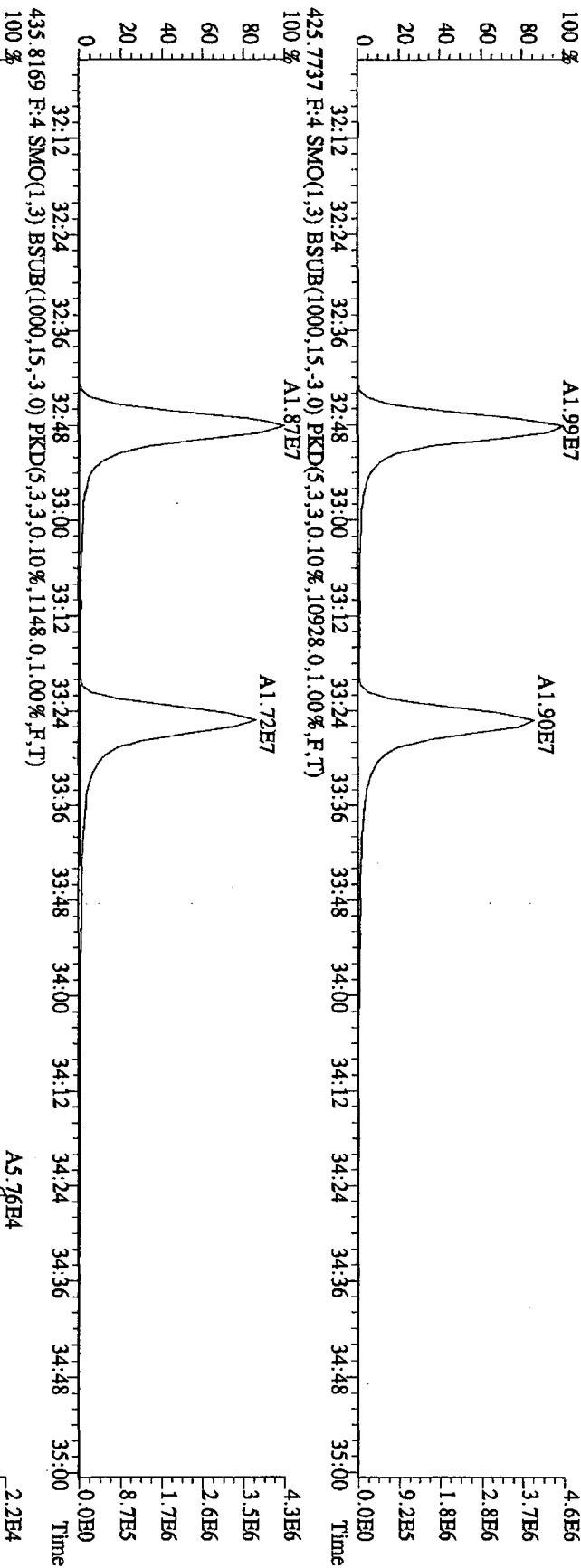
File: 29OCT10ID5 #1-301 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage: SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CPISM 3732-10 Exp: DIOXINRES
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5608,0,1,00%,F,T)



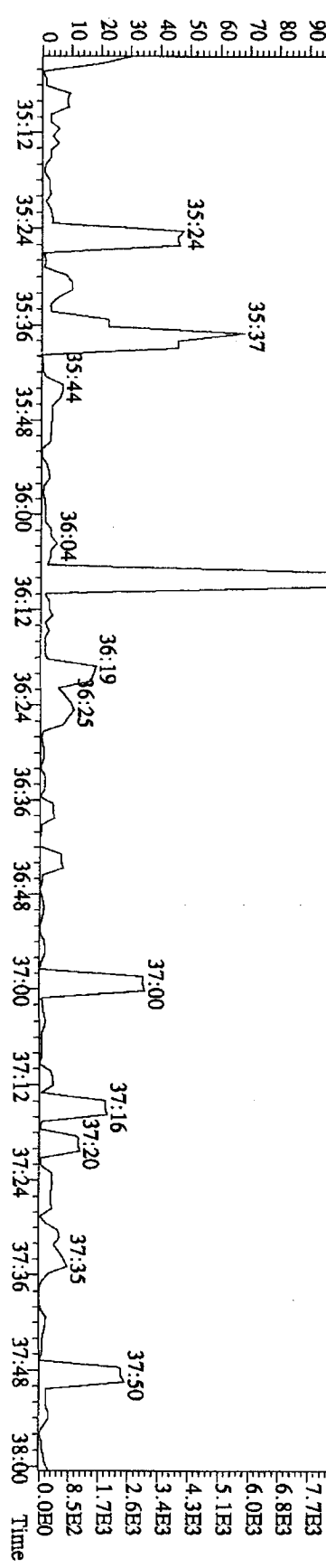
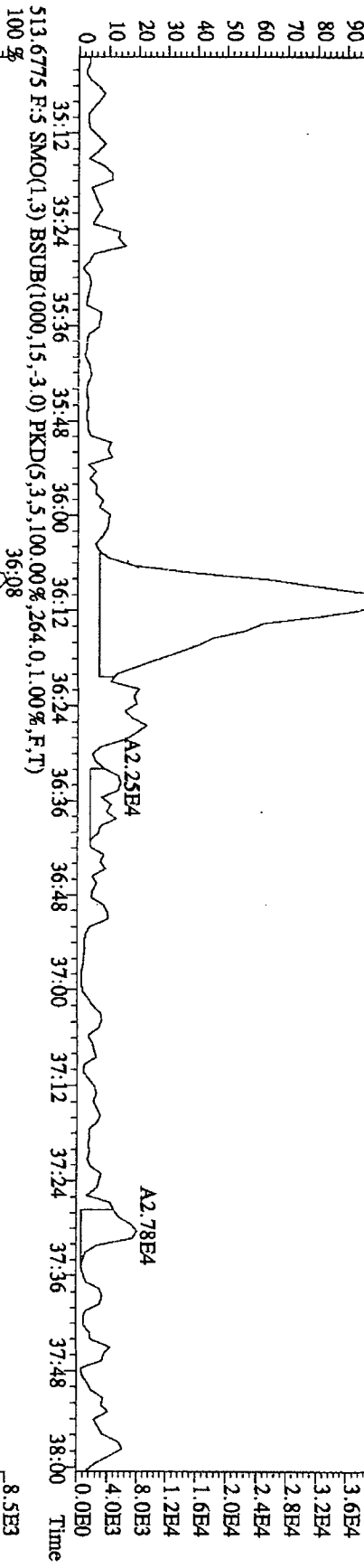
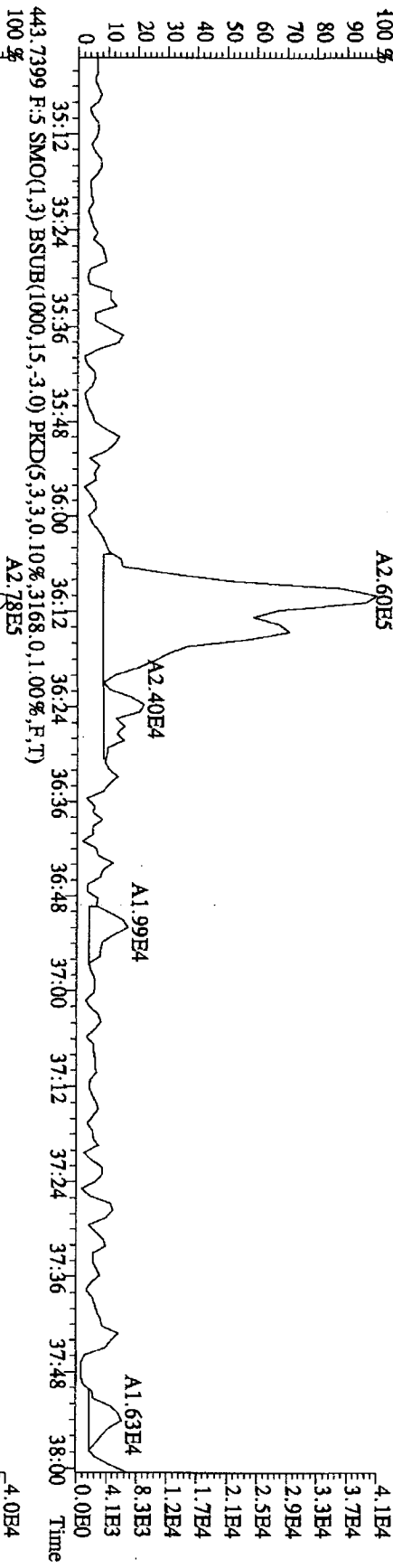
File: 29OCT101D5 #1-203 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 : DB-5 CPM 3732-10 Exp: DIOXINES
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9752,0,1,00%,F,T)



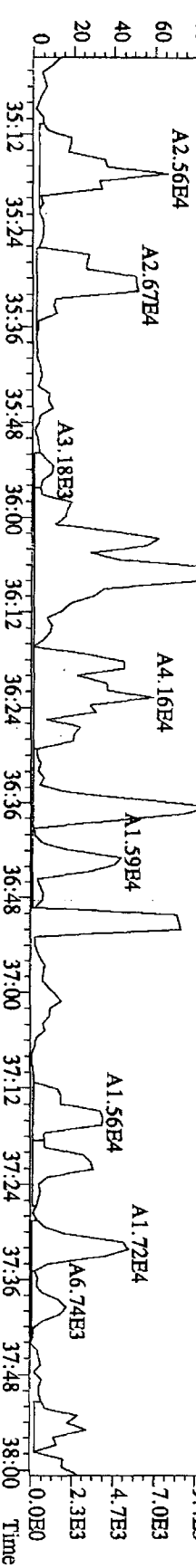
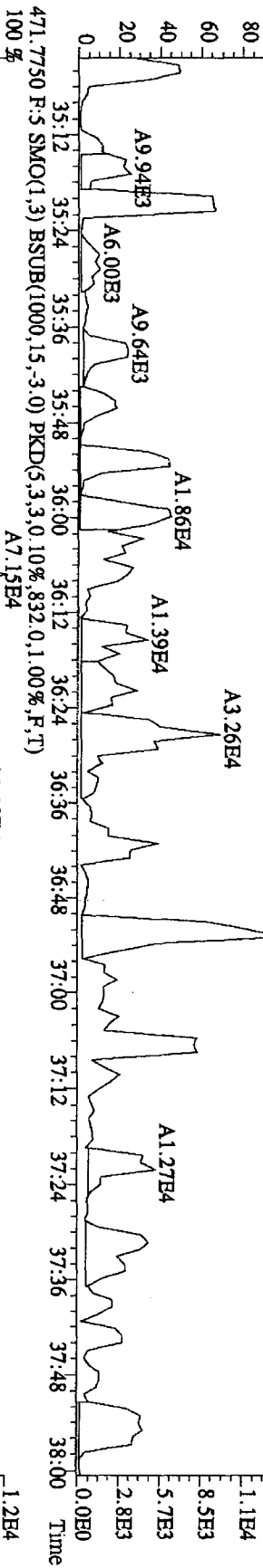
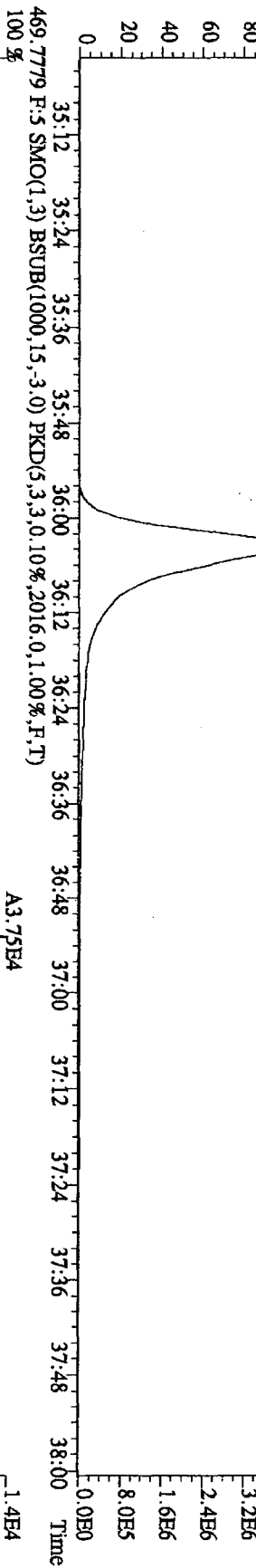
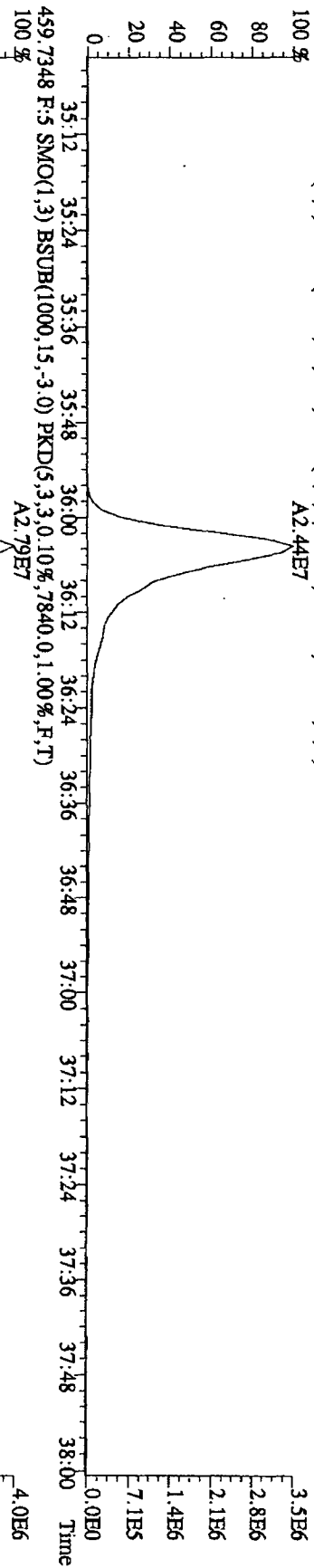
File: 290C101D5 #1-203 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 .DB-5 CPSM 3732-10 Exp: DIOXINRES
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8808,0.1,0.00%,F,T)
 100 %



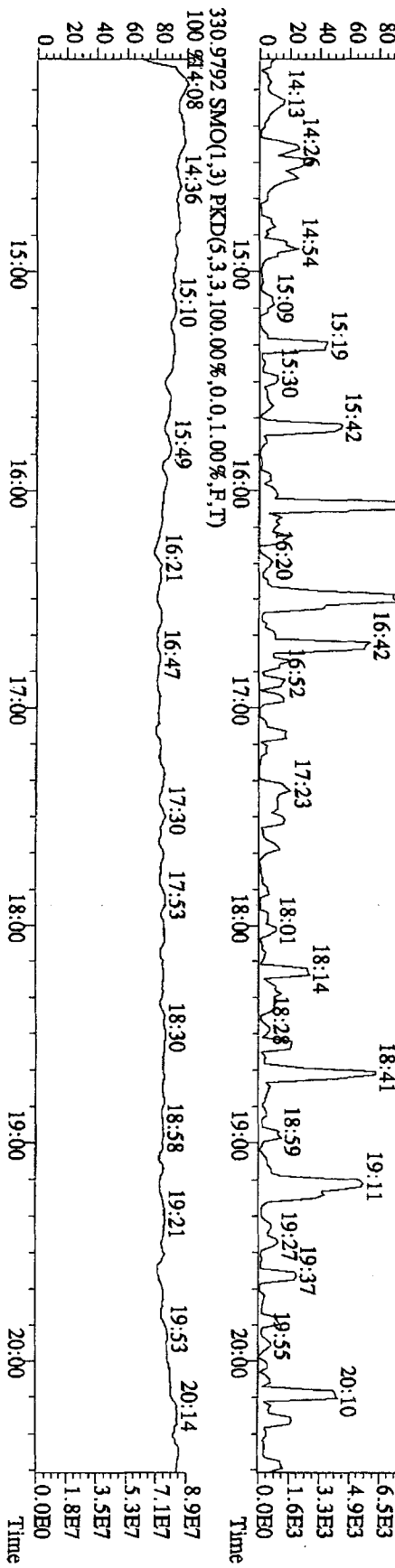
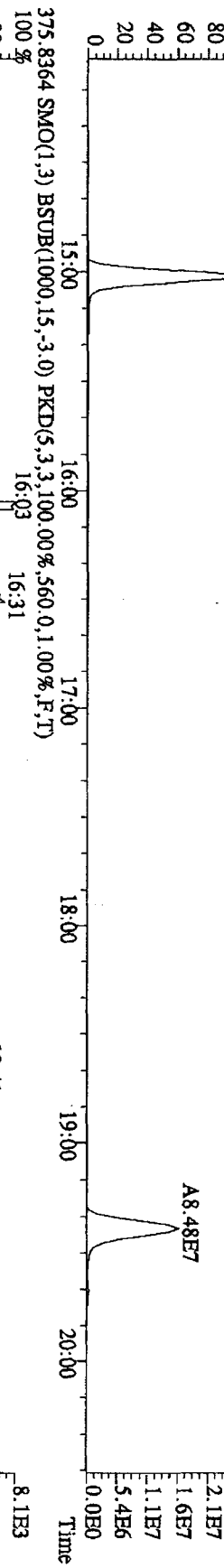
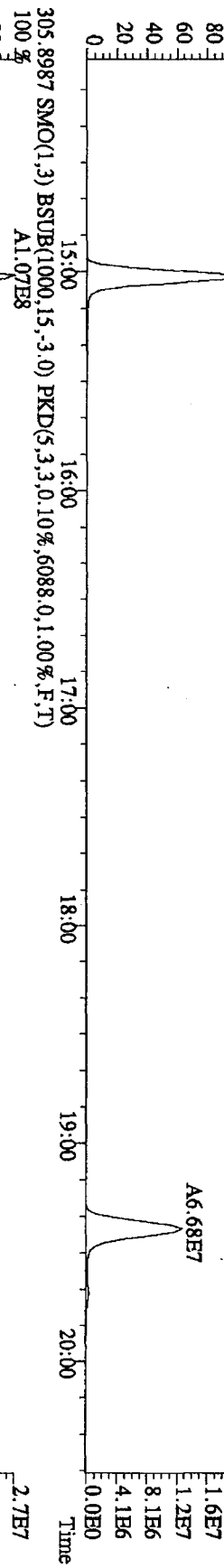
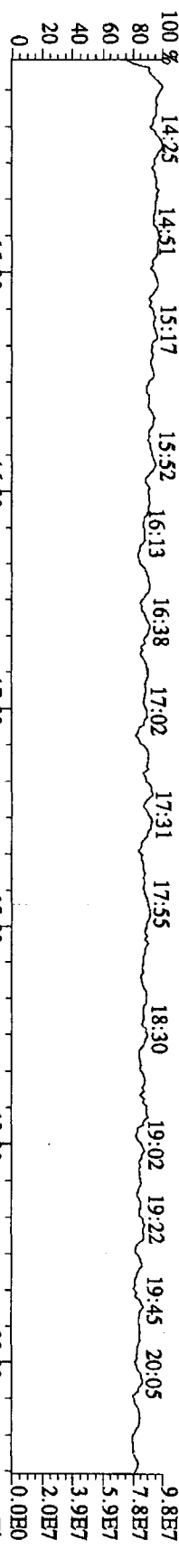
File: 290C101D5 #1-196 Acq: 29-OCT-2010 05:39:02 GC EI + Voltage SIR 70SE
 Sample#1 Text: CP1029 : DB-5 CPSM 3732-10 Exp: DIOXINRES
 441.7428 F: 5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2992,0,1,00%,F,T)
 100%



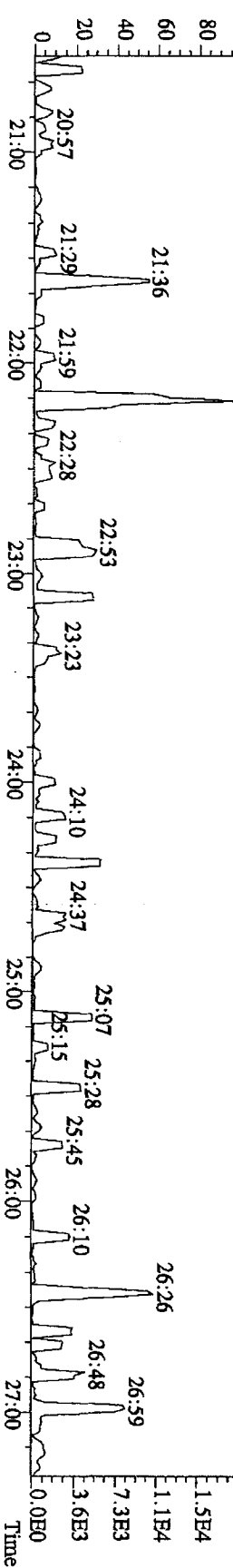
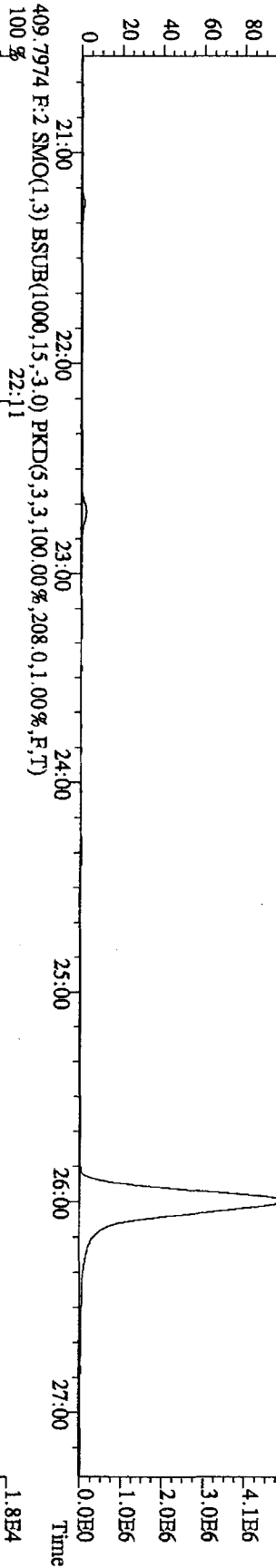
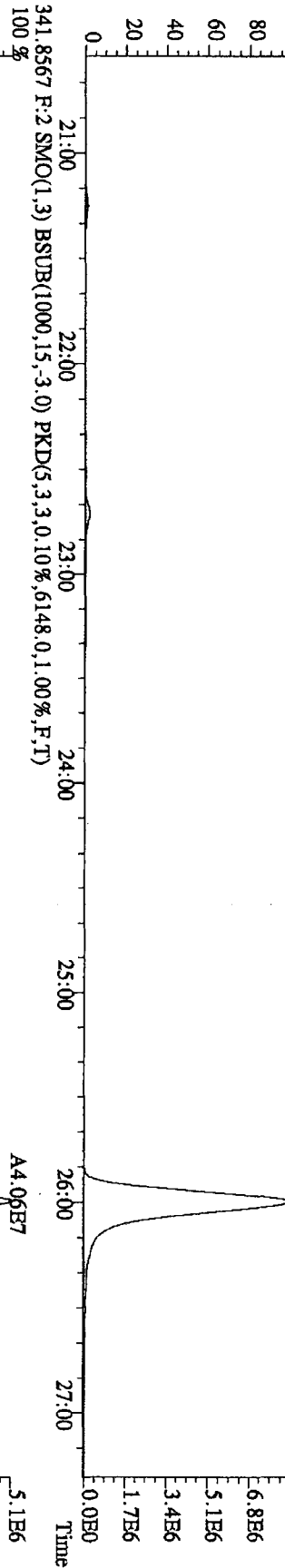
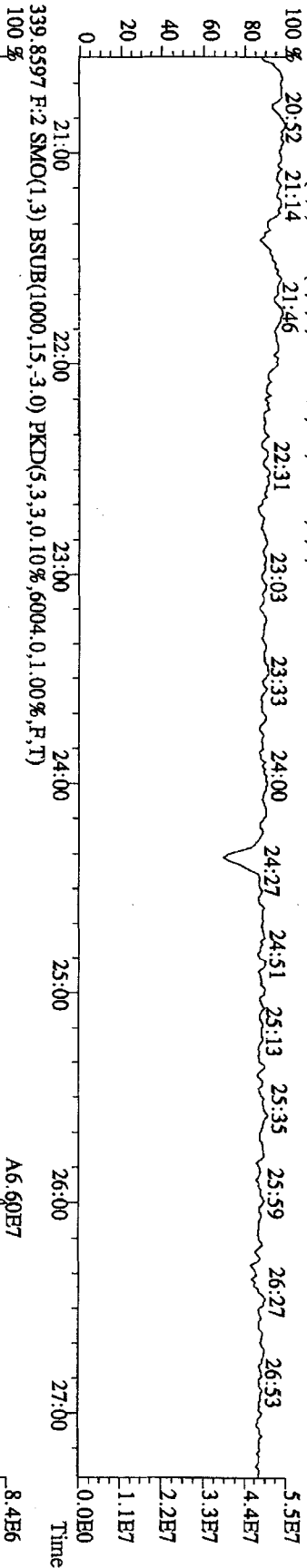
File: 290C101D5 #1-196 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SFR 70SE
 Sample#1 Text: CP1029 : DB-5 CP/SM 3732-10 Exp: DIOXINRES
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5916:0,1.00%,F,T)
 100%



File: 29OCT10ID5 #1-382 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CPM 3732-10 Exp: DIOXINRES
 292.9825 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



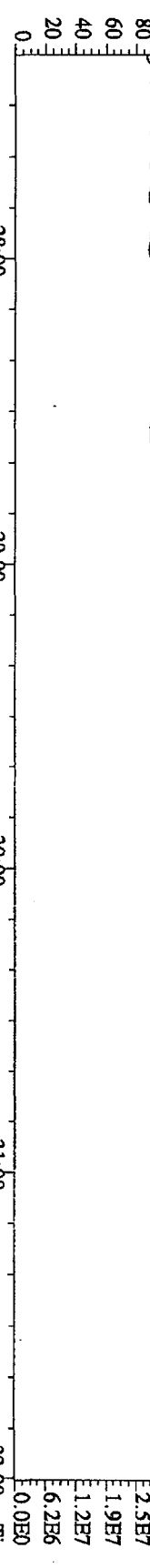
File: 290C101D5 #1_422 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 :DB-5 CPSM 3732-10 Exp: DIOXINRES
 342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 20:52 21:14 21:46 22:31 23:03 23:33 24:00 24:27 24:51 25:13 25:35 25:59 26:27 26:53



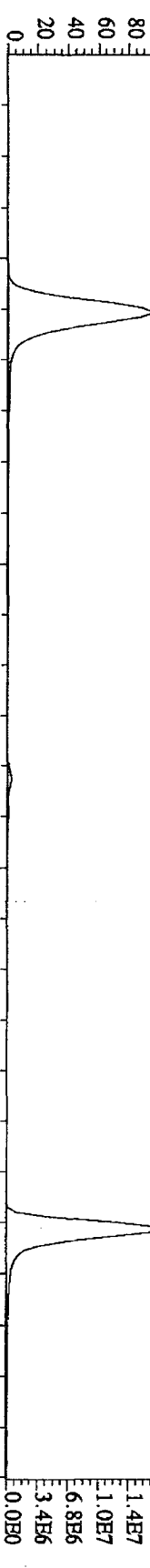
File: 290C101D5 #1-301 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SFR 70SE

Sample#1 Text: CP1029 :DB-5-CP5M 3732-10 Exp: DIOXINRES

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



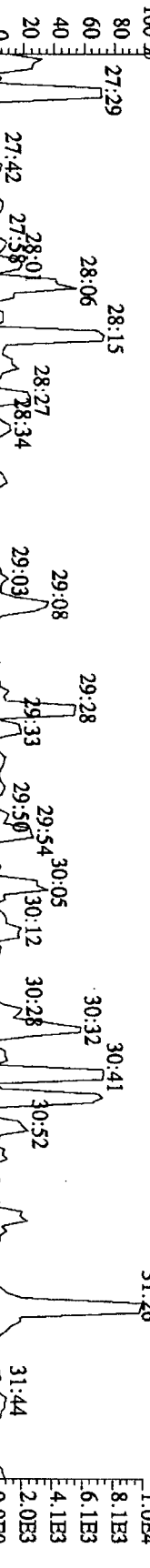
373.8208 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,7224,0,1,00%,F,T)



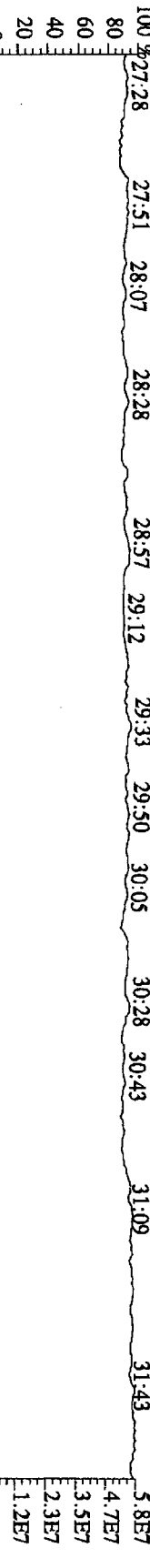
375.8178 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,14448,0,1,00%,F,T)



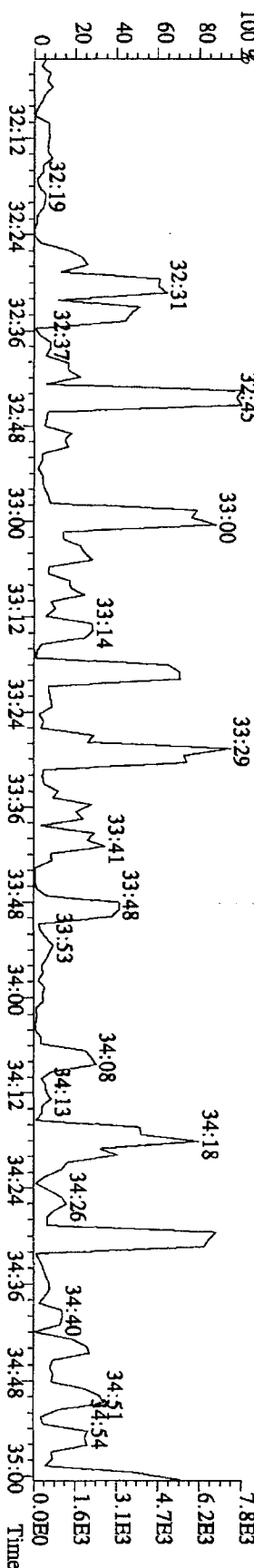
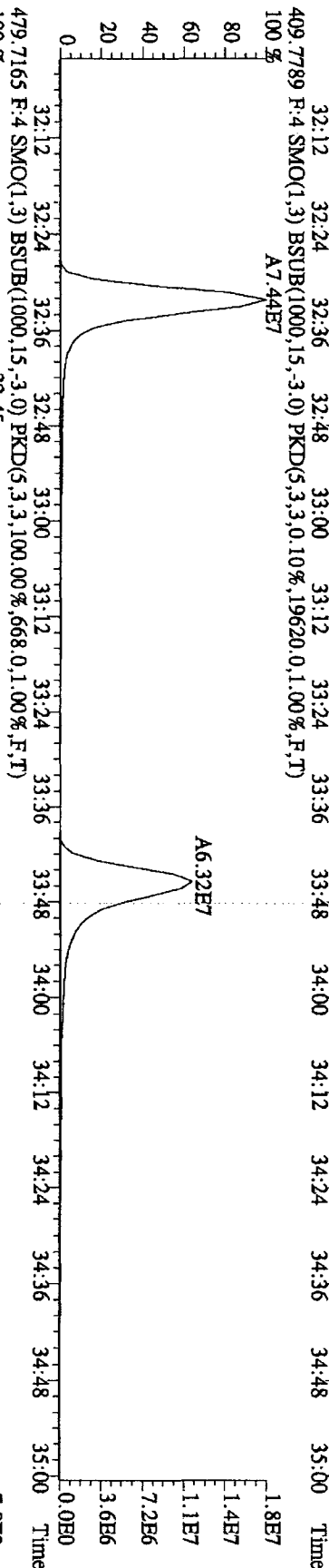
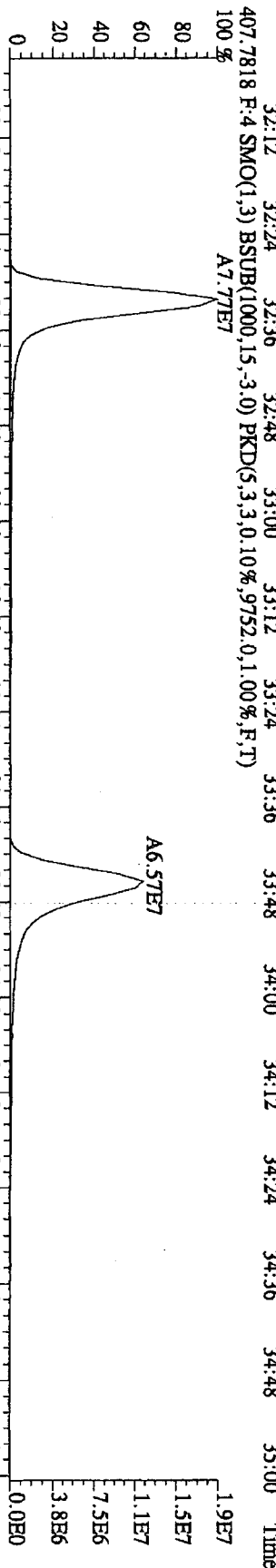
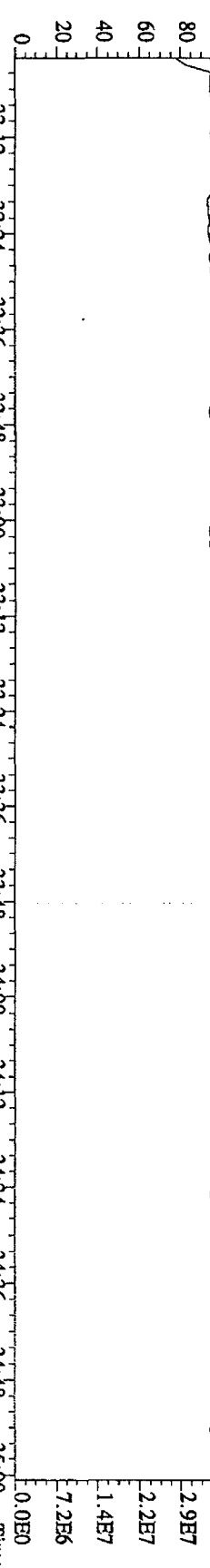
445.7555 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100,00%,560,0,1,00%,F,T)



380.9760 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

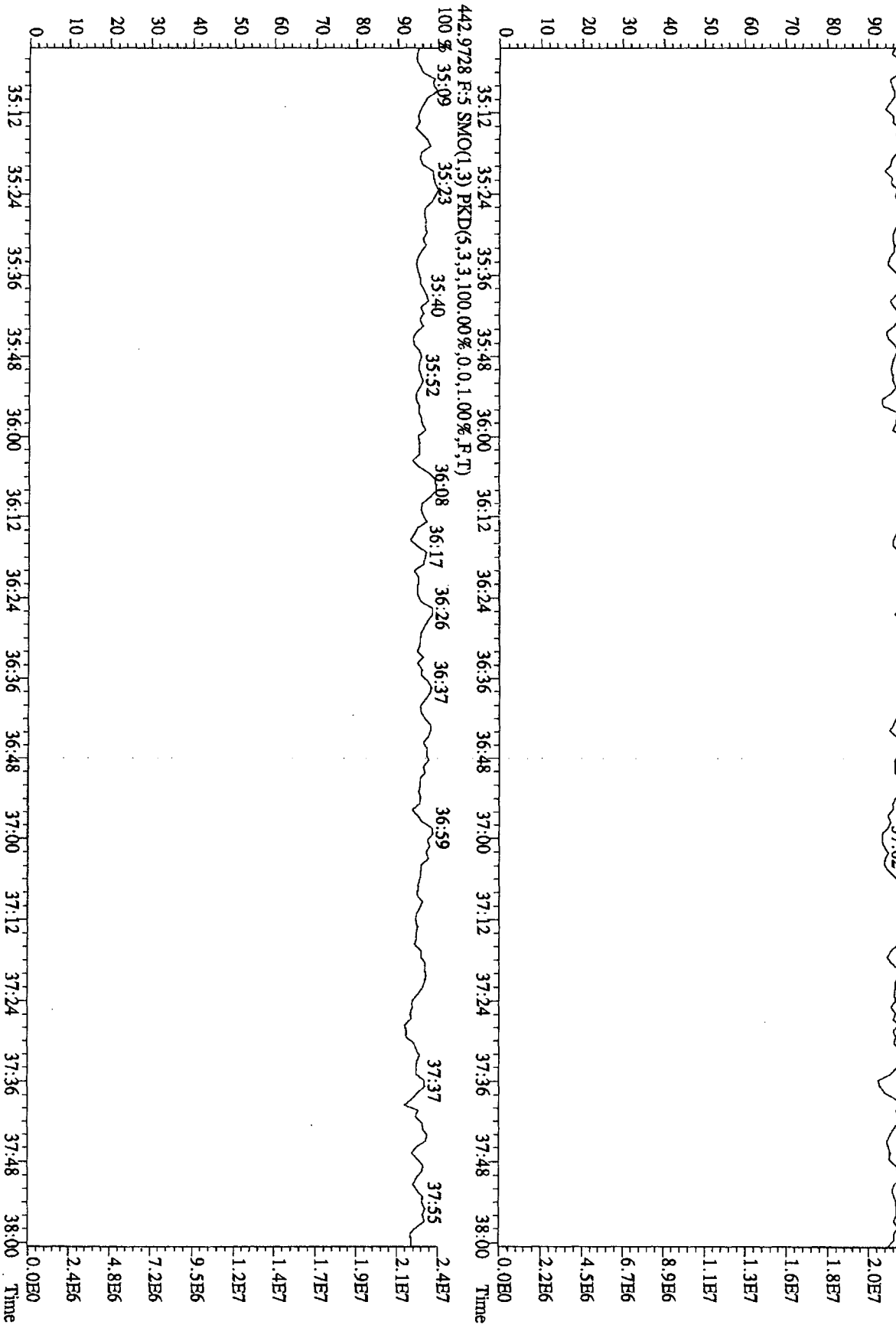


File: 29OCC101D5 #1-203 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CPI029 :DB-5 CPSM 3732-10 Exp: DIOXINRES
 430.9728 F:4 SMO(1.3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 32:15 32:38 32:52 33:09 33:29 33:42 33:52 34:08 34:20 34:38



File: 29OCT101D5 #1-196 Acq: 29-OCT-2010 05:39:02 GC EI+ Voltage SIR 70SE
 Sample#1 Text: CP1029 : DB-5 CPM 3732-10 Exp: DIOXINRES

454.9728 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 35:10 35:27 35:37 35:47 35:57 36:09 36:29 36:41 36:52 37:02 37:13 37:33 37:50



Initial Calibration Checklist
Dioxin Methods

ICAL ID (DB225, DB225 AIR) 1029105D2
 Method ID 1613B, 8290, TO9, 23, 0023A Date Scanned 11-01-2010 As
 Column ID DB225 Instrument ID 5D2
 STD ID's ST1029 (B-F) STD Solution 10 DYN (503-507)
 GC Program DB225 Multiplier Setting 750 KV
 Analyzed By AM Date Analyzed 10-29-10, 10-30-10
 Prepared By As Date Prepared 11-01-2010
 Reviewed By R. Huber Date Reviewed 11/1/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Beginning and Ending Static resolution check present?	✓	✓
DLM02.2: Beginning and ending CPSM blow ups present?	✓	✓
DLM02.2: CPSM valley < 25%. Resolution documented below? **	✓	✓
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?	✓	✓
DLM02.2: Absolute retention time for 13C12-1,2,3,4-TCDD > 25 minutes on a DB-5 column or 13C12-1,2,3,4-TCDD > 15 minutes on a DB-225 column?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS:

CS-3 13C12-1,2,3,4-TCDD RS RT = 15:22

CPSM 1 Valley = 22% CPSM 2 Valley = 21 1/2%

- * Method 8290/TO9/M0023A: %RSD ≤ 20% for natives, ≤ 30% for labeled compounds; S/N ≥ 10
 Method 1613B/DLM02.2: %RSD ≤ 20% natives, ≤ 30% labeled compounds; S/N ≥ 10
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5
- ** DLM02.2 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run: 290C10B5D2 Analyte: DB225 Cal: DB2251029105D2

ST1029B : CS-1 10DXN503 AM ST1029C : CS-2 10DXN504 AM ST1029D : CS-3 10DXN505 AM
 ST1029E : CS-4 10DXN506 AM ST1029F : CS-5 10DXN507 AM

290C10B5D2290C10B5D2290C10B5D2290C10B5D2290C10B5D2290C10B5D2

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.636	0.105	6.40 %	1.59	1.63	1.78	1.50	1.68
2,3,7,8-TCDF	1.060	0.038	3.59 %	1.06	1.11	1.01	1.08	1.04
13C-2,3,7,8-TCDD	0.957	0.024	2.46 %	0.97	0.94	0.99	0.93	0.95
2,3,7,8-TCDD	1.238	0.033	2.64 %	1.29	1.24	1.20	1.25	1.21
37Cl-2,3,7,8-TCDD	1.471	0.138	9.39 %	1.70	1.37	1.50	1.38	1.40

Run #1 Filename 29OC10B5D2 S: 3 I: 1
Acquired: 30-OCT-10 01:18:06 Processed: 30-OCT-10 23:42:46
Run: 29OC10B5D2 Analyte: DB225 Cal: DB2251029105D2

Comments:

Sample text: ST1029B :CS-1 10DXN503 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	186758000	0.76 y	15:24	-	100.00	n
13C-2,3,7,8-TCDF	296875000	0.79 y	16:38	1.590	100.00	n
2,3,7,8-TCDF	1579551	0.75 y	16:38	1.064	0.50	n
13C-2,3,7,8-TCDD	180606900	0.77 y	15:06	0.967	100.00	n
2,3,7,8-TCDD	1160755	0.81 y	15:07	1.285	0.50	n
37Cl-2,3,7,8-TCDD	1587324	1.00 y	15:07	1.700	0.50	n

Run #2 Filename 29OC10B5D2 S: 4 I: 1
Acquired: 30-OCT-10 01:54:18 Processed: 30-OCT-10 23:42:47
Run: 29OC10B5D2 Analyte: DB225 Cal: DB2251029105D2

Comments:

Sample text: ST1029C :CS-2 10DXN504 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	189941300	0.77 y	15:24	-	100.00	n
13C-2,3,7,8-TCDF	308668000	0.78 y	16:37	1.625	100.00	n
2,3,7,8-TCDF	6830910	0.77 y	16:38	1.107	2.00	n
13C-2,3,7,8-TCDD	179027500	0.77 y	15:06	0.943	100.00	n
2,3,7,8-TCDD	4438440	0.73 y	15:07	1.240	2.00	n
37Cl-2,3,7,8-TCDD	5209000	1.00 y	15:06	1.371	2.00	n

Run #3 Filename 29OC10B5D2 S: 5 I: 1
 Acquired: 30-OCT-10 02:30:29 Processed: 30-OCT-10 23:42:48
 Run: 29OC10B5D2 Analyte: DB225 Cal: DB2251029105D2

Comments:

Sample text: ST1029D :CS-3 10DXN505 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	188186700	0.80 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	335320000	0.79 y	16:36	1.782	100.00	n
2,3,7,8-TCDF	33794100	0.79 y	16:37	1.008	10.00	n
13C-2,3,7,8-TCDD	186634900	0.77 y	15:05	0.992	100.00	n
2,3,7,8-TCDD	22422880	0.78 y	15:06	1.201	10.00	n
37Cl-2,3,7,8-TCDD	28261400	1.00 y	15:06	1.502	10.00	n

Run #4 Filename 29OC10B5D2 S: 6 I: 1
Acquired: 30-OCT-10 03:06:38 Processed: 30-OCT-10 23:42:49
Run: 29OC10B5D2 Analyte: DB225 Cal: DB2251029105D2

Comments:

Sample text: ST1029E :CS-4 10DXN506 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	184390900	0.76 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	276854000	0.78 y	16:36	1.501	100.00	n
2,3,7,8-TCDF	119678100	0.78 y	16:37	1.081	40.00	n
13C-2,3,7,8-TCDD	171660300	0.75 y	15:05	0.931	100.00	n
2,3,7,8-TCDD	85904500	0.76 y	15:05	1.251	40.00	n
37Cl-2,3,7,8-TCDD	102081200	1.00 y	15:05	1.384	40.00	n

Run #5 Filename 29OC10B5D2 S: 7 I: 1
 Acquired: 30-OCT-10 03:42:45 Processed: 30-OCT-10 23:42:49
 Run: 29OC10B5D2 Analyte: DB225 Cal: DB2251029105D2

Comments:

Sample text: ST1029F :CS-5 10DXN507 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	179399200	0.78 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	301839000	0.81 y	16:36	1.682	100.00	n
2,3,7,8-TCDF	626834000	0.77 y	16:37	1.038	200.00	n
13C-2,3,7,8-TCDD	171024700	0.77 y	15:04	0.953	100.00	n
2,3,7,8-TCDD	415551000	0.78 y	15:05	1.215	200.00	n
37Cl-2,3,7,8-TCDD	501248000	1.00 y	15:05	1.397	200.00	n

Run: 290C10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

ST1029B : CS-1 10DXN503 AM ST1029C : CS-2 10DXN504 AM ST1029D : CS-3 10DXN505 AM
 ST1029E : CS-4 10DXN506 AM ST1029F : CS-5 10DXN507 AM

290C10B5D2290C10B5D2290C10B5D2290C10B5D2290C10B5D2290C10B5D2

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.636	0.105	6.40 %	1.59	1.63	1.78	1.50	1.68
2,3,7,8-TCDF	1.060	0.038	3.59 %	1.06	1.11	1.01	1.08	1.04
13C-2,3,7,8-TCDD	0.957	0.024	2.46 %	0.97	0.94	0.99	0.93	0.95
2,3,7,8-TCDD	1.238	0.033	2.64 %	1.29	1.24	1.20	1.25	1.21
37Cl-2,3,7,8-TCDD	1.536	0.126	8.21 %	1.76	1.45	1.51	1.49	1.47

Run #1 Filename 29OC10B5D2 S: 3 I: 1
Acquired: 30-OCT-10 01:18:06 Processed: 30-OCT-10 23:45:53
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

Comments:

Sample text: ST1029B :CS-1 10DXN503 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	186758000	0.76 y	15:24	-	100.00	n
13C-2,3,7,8-TCDF	296875000	0.79 y	16:38	1.590	100.00	n
2,3,7,8-TCDF	1579551	0.75 y	16:38	1.064	0.50	n
13C-2,3,7,8-TCDD	180606900	0.77 y	15:06	0.967	100.00	n
2,3,7,8-TCDD	1160755	0.81 y	15:07	1.285	0.50	n
37Cl-2,3,7,8-TCDD	1587324	1.00 y	15:07	1.758	0.50	n

Run #2 Filename 29OC10B5D2 S: 4 I: 1
Acquired: 30-OCT-10 01:54:18 Processed: 30-OCT-10 23:46:01
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

Comments:

Sample text: ST1029C :CS-2 10DXN504 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	189941300	0.77 y	15:24	-	100.00	n
13C-2,3,7,8-TCDF	308668000	0.78 y	16:37	1.625	100.00	n
2,3,7,8-TCDF	6830910	0.77 y	16:38	1.107	2.00	n
13C-2,3,7,8-TCDD	179027500	0.77 y	15:06	0.943	100.00	n
2,3,7,8-TCDD	4438440	0.73 y	15:07	1.240	2.00	n
37Cl-2,3,7,8-TCDD	5209000	1.00 y	15:06	1.455	2.00	n

Run #3 Filename 29OC10B5D2 S: 5 I: 1
Acquired: 30-OCT-10 02:30:29 Processed: 30-OCT-10 23:46:09
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

Comments:

Sample text: ST1029D :CS-3 10DXN505 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	188186700	0.80 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	335320000	0.79 y	16:36	1.782	100.00	n
2,3,7,8-TCDF	33794100	0.79 y	16:37	1.008	10.00	n
13C-2,3,7,8-TCDD	186634900	0.77 y	15:05	0.992	100.00	n
2,3,7,8-TCDD	22422880	0.78 y	15:06	1.201	10.00	n
37Cl-2,3,7,8-TCDD	28261400	1.00 y	15:06	1.514	10.00	n

Run #4 Filename 29OC10B5D2 S: 6 I: 1
Acquired: 30-OCT-10 03:06:38 Processed: 30-OCT-10 23:46:17
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

Comments:

Sample text: ST1029E :CS-4 10DXN506 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	184390900	0.76 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	276854000	0.78 y	16:36	1.501	100.00	n
2,3,7,8-TCDF	119678100	0.78 y	16:37	1.081	40.00	n
13C-2,3,7,8-TCDD	171660300	0.75 y	15:05	0.931	100.00	n
2,3,7,8-TCDD	85904500	0.76 y	15:05	1.251	40.00	n
37Cl-2,3,7,8-TCDD	102081200	1.00 y	15:05	1.487	40.00	n

Run #5 Filename 29OC10B5D2 S: 7 I: 1
Acquired: 30-OCT-10 03:42:45 Processed: 30-OCT-10 23:46:25
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1029105D2

Comments:

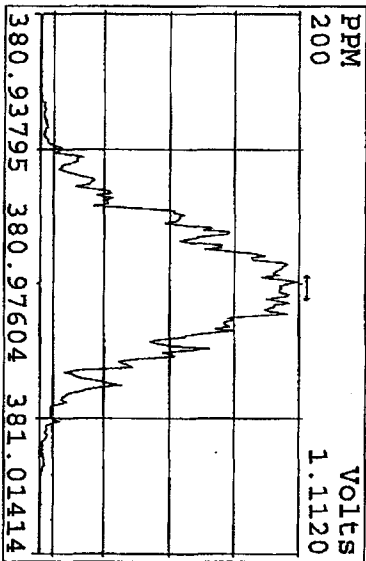
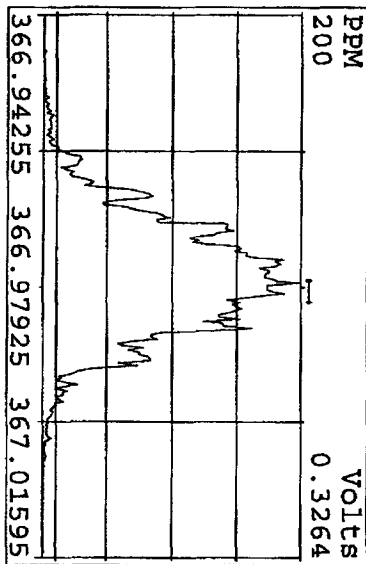
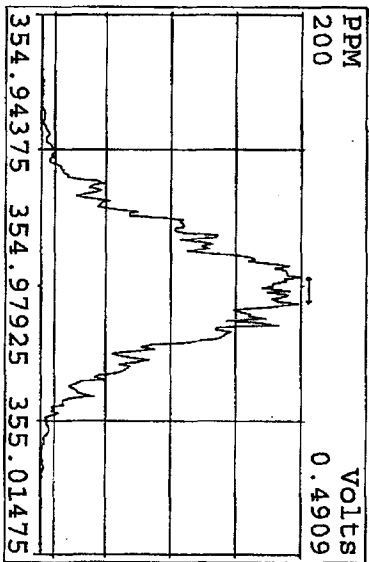
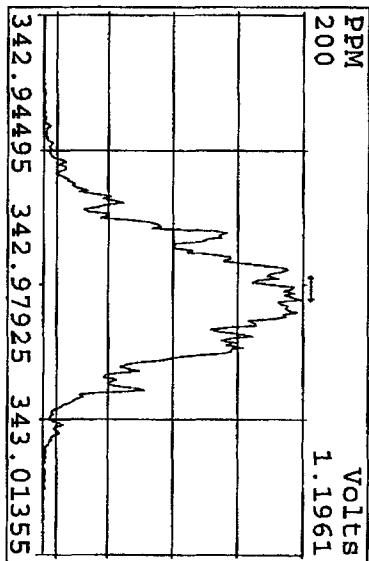
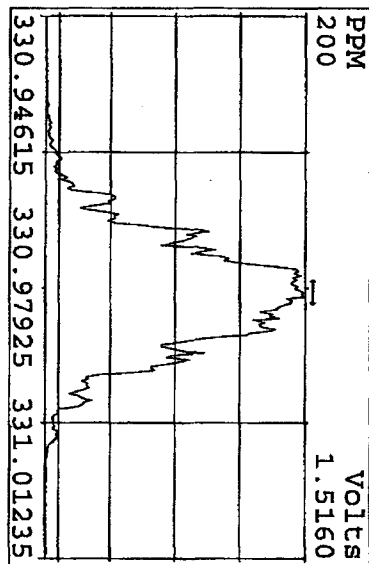
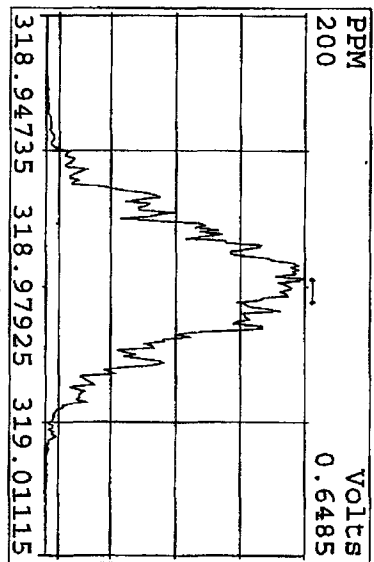
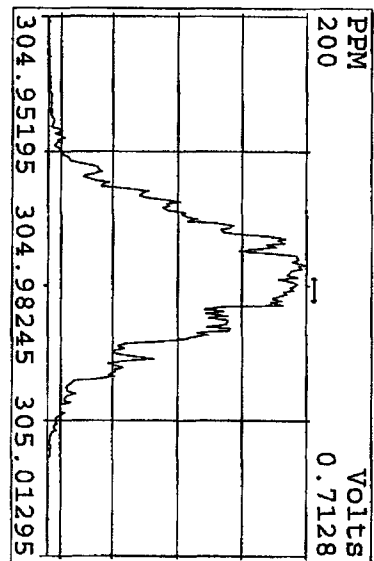
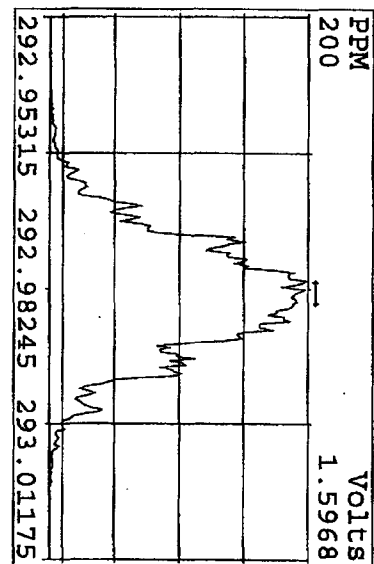
Sample text: ST1029F :CS-5 10DXN507 AM

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	179399200	0.78 y	15:22	-	100.00	n
13C-2,3,7,8-TCDF	301839000	0.81 y	16:36	1.682	100.00	n
2,3,7,8-TCDF	626834000	0.77 y	16:37	1.038	200.00	n
13C-2,3,7,8-TCDD	171024700	0.77 y	15:04	0.953	100.00	n
2,3,7,8-TCDD	415551000	0.78 y	15:05	1.215	200.00	n
37Cl-2,3,7,8-TCDD	501248000	1.00 y	15:05	1.465	200.00	n

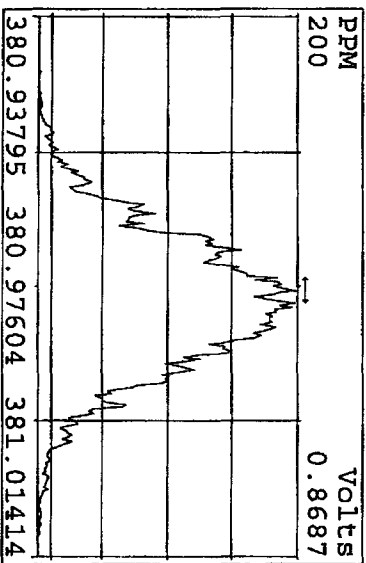
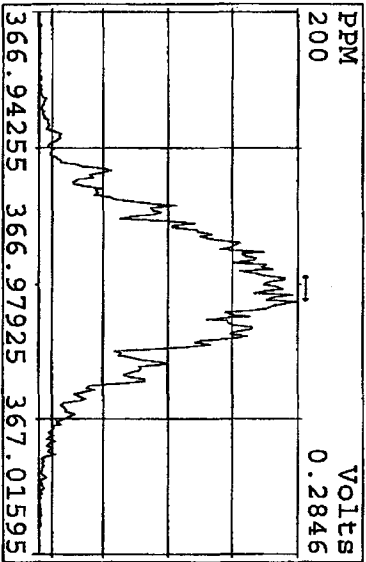
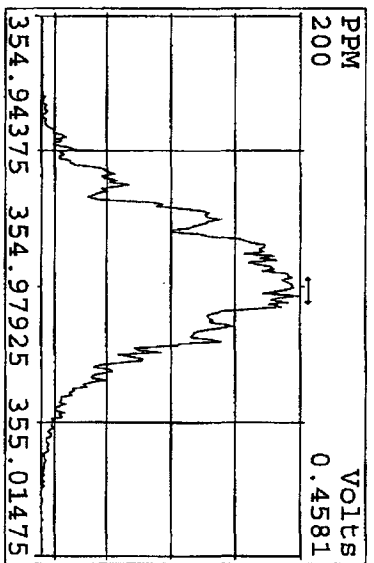
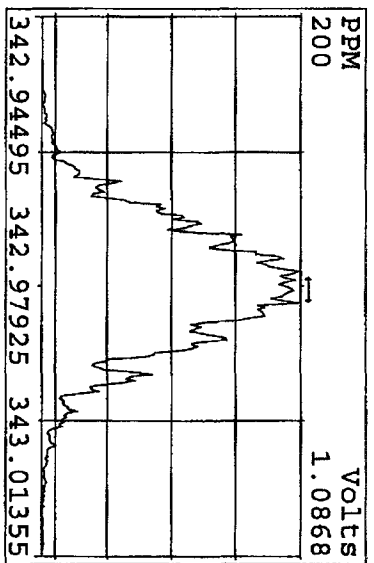
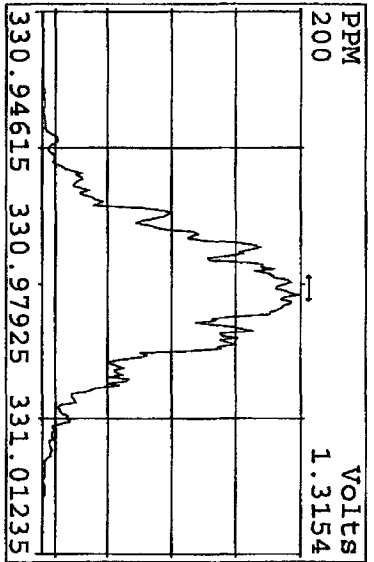
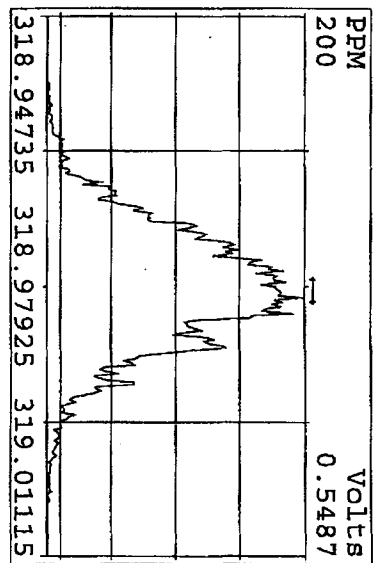
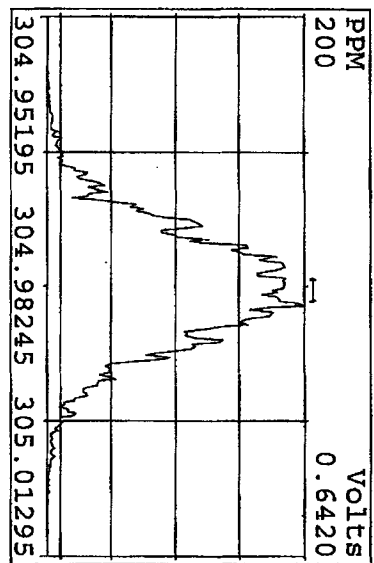
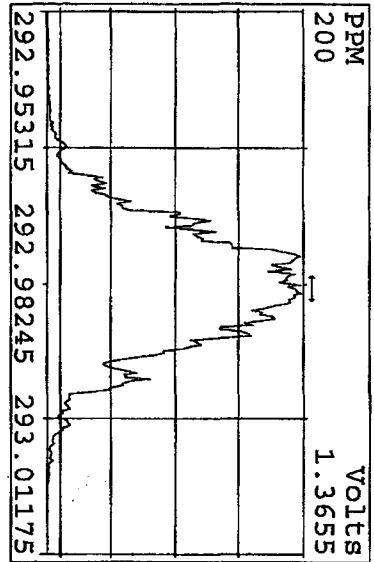
data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
29OC10B5D2	1	CP1029A	DB-225 CPSM 3732-06 AM				1.0000	
29OC10B5D2	2	SB1029B	Solvent Blank C-14 AM				1.0000	
29OC10B5D2	3	ST1029B	CS-1 10DXN503 AM				1.0000	
29OC10B5D2	4	ST1029C	CS-2 10DXN504 AM				1.0000	
29OC10B5D2	5	ST1029D	CS-3 10DXN505 AM				1.0000	
29OC10B5D2	6	ST1029E	CS-4 10DXN506 AM				1.0000	
29OC10B5D2	7	ST1029F	CS-5 10DXN507 AM				1.0000	
29OC10B5D2	8	SB1029C	Solvent Blank C-14 AM				1.0000	
29OC10B5D2	9	ST1029G	2nd Source 10DXN340 AM				1.0000	
29OC10B5D2	10	CP1029B	DB-225 CPSM 3732-06 AM				1.0000	
29OC10B5D2	11						1.0000	
29OC10B5D2	12						1.0000	
29OC10B5D2	13						1.0000	
29OC10B5D2	14						1.0000	
29OC10B5D2	15						1.0000	
29OC10B5D2	16						1.0000	
29OC10B5D2	17		AM 10-29-10				1.0000	
29OC10B5D2	18						1.0000	

*log file v'd
NR 10/29/10*

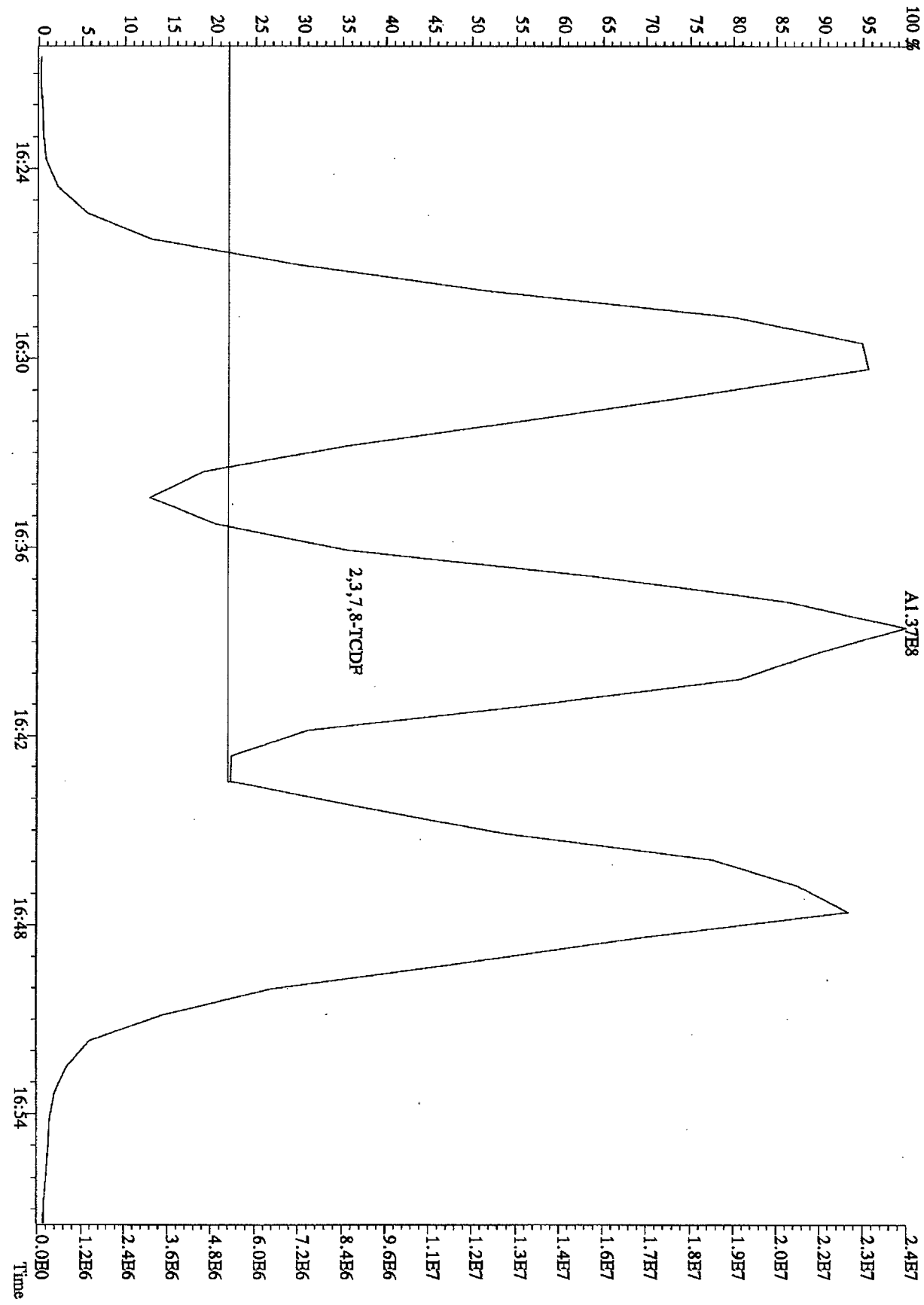
Peak Locate Examination: 30-OCT-2010:00:02 File: 29OCT10B5D2
 Experiment: DB225RFS Function: 1 Reference: PFK



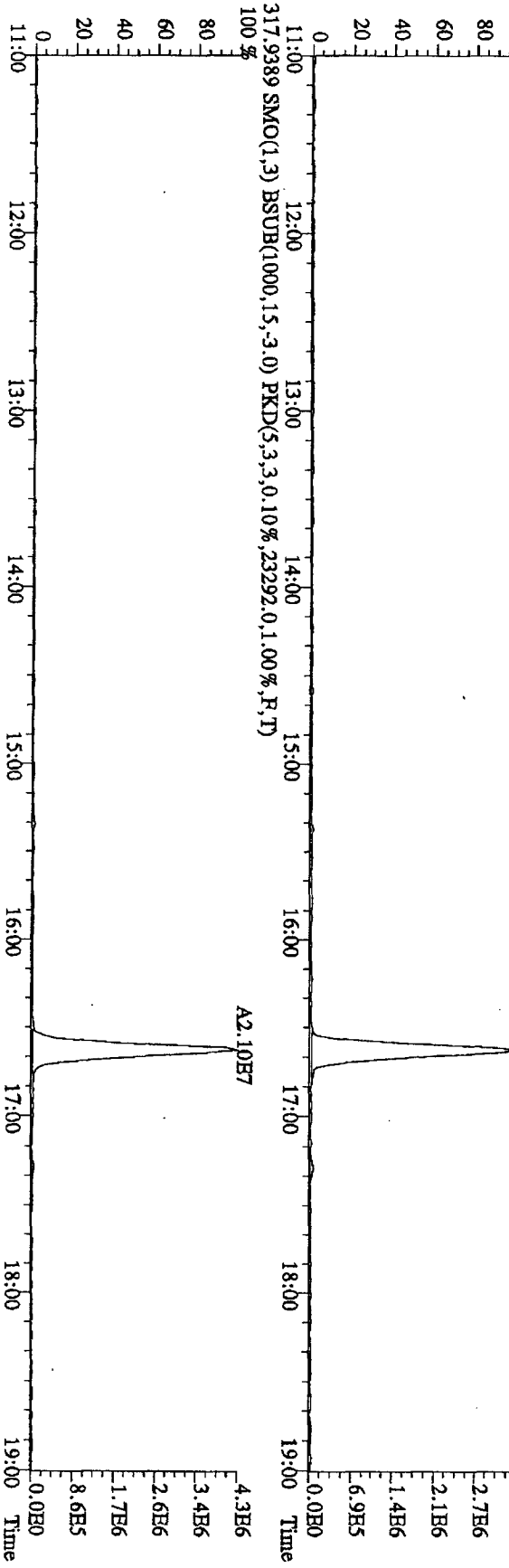
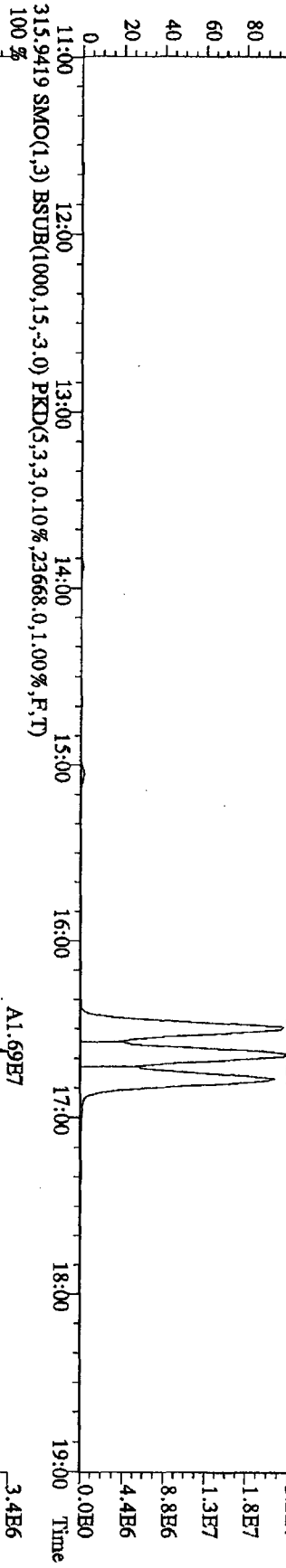
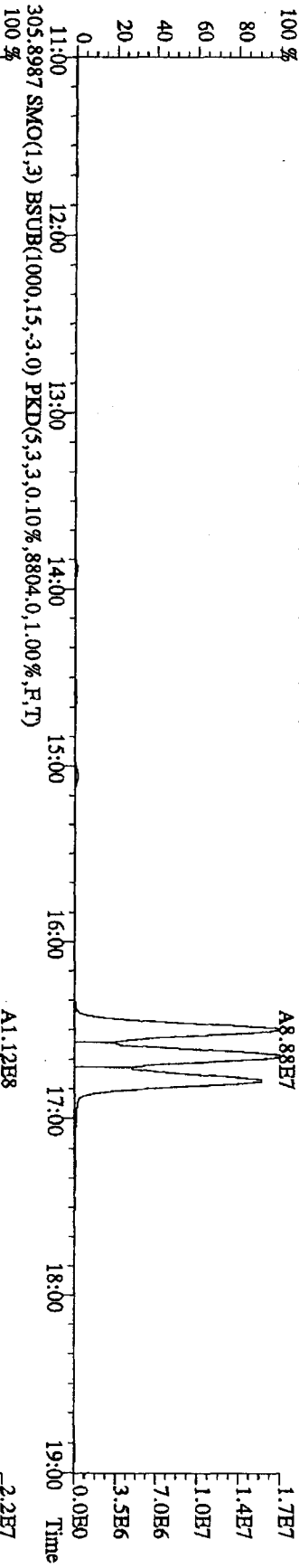
Peak Locate Examination: 30-OCT-2010: 08:56 File: ENDRS290C10B5D2
 Experiment: DB225RES Function: 1 Reference: PFK



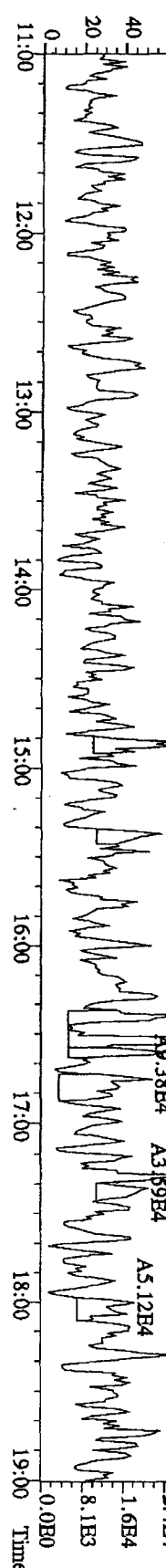
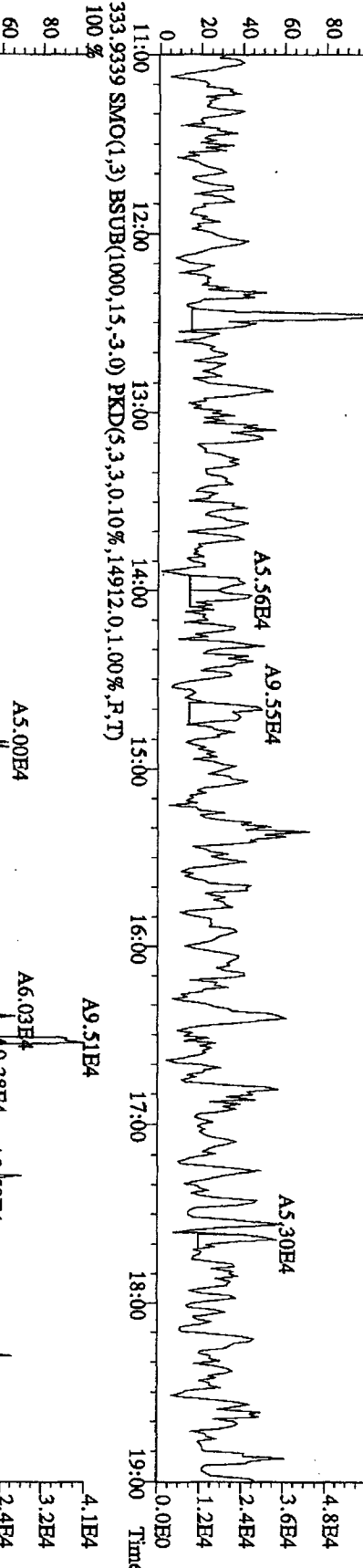
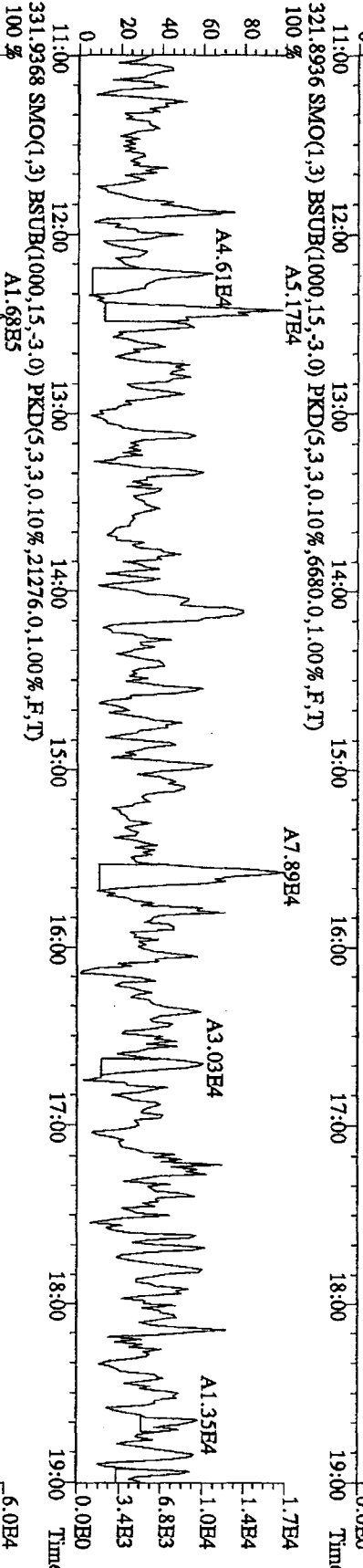
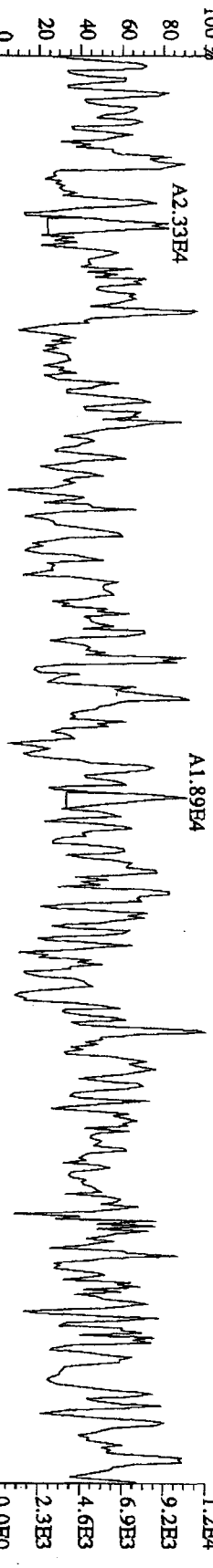
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 00:05:50 GC EI+ Voltage: SIR 70SE
 Sample#1 Text: CP1029A :DB-225 CPM 3732-06 AM Exp: DB225RES
 305.8987



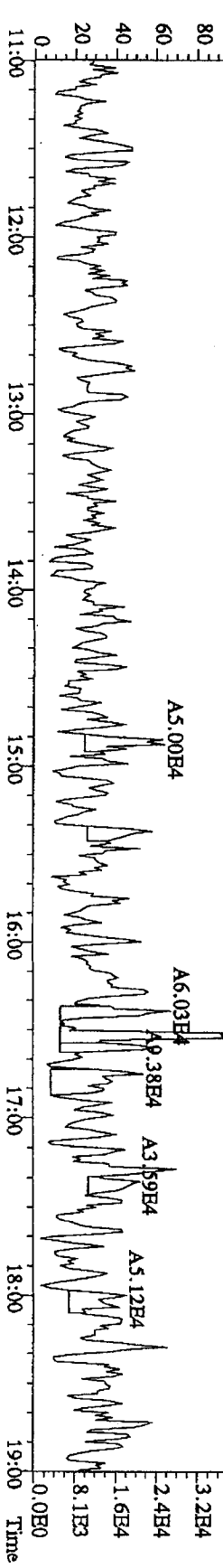
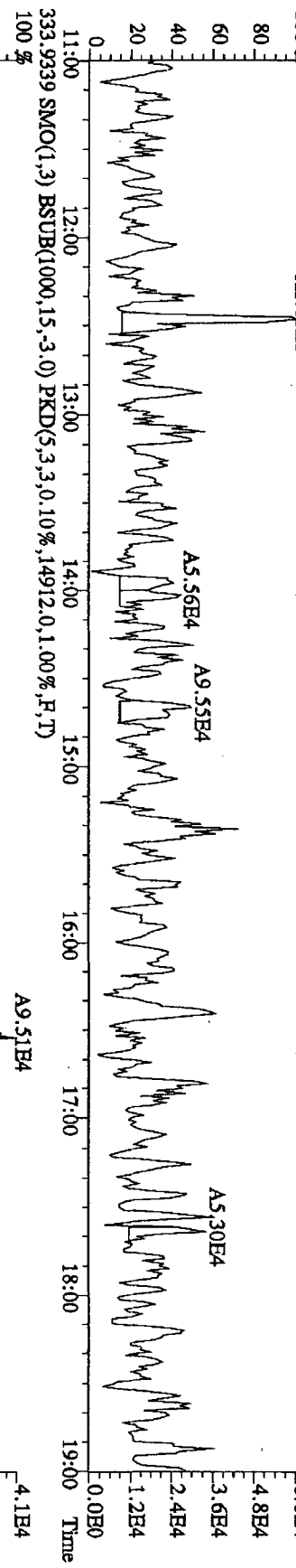
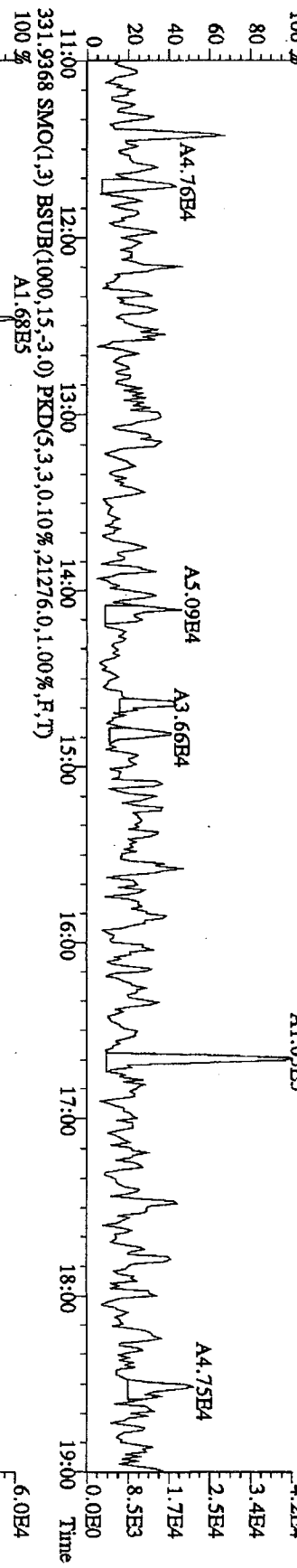
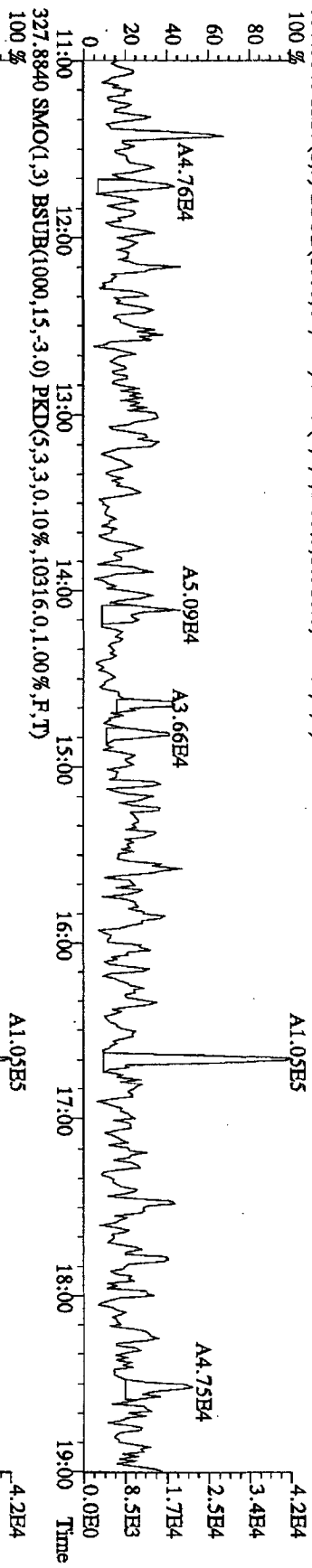
File: 29OCT10B5D2 #1-1242 Acq: 30-OCT-2010 00:05:50 GC EI+ Voltage SIR 70SB
 Sample#1 Text: CP1029A .DB-225 CPISM 3732-06 AM Exp: DB225RES
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7516,0,1,00%,F,T)
 100%



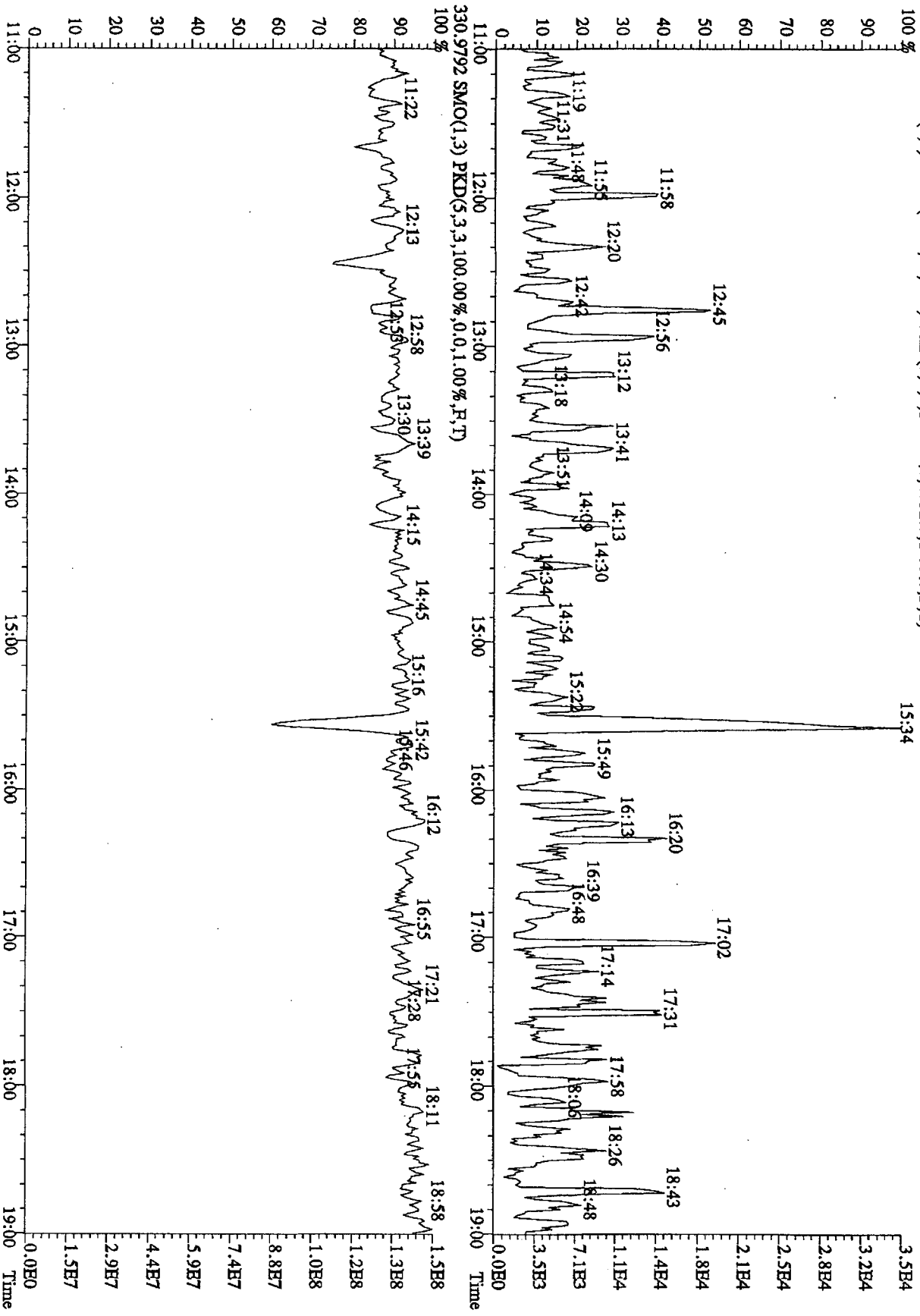
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 00:05:50 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1029A :DB-225 CP5M 3732-06 AM Exp:DB225RES
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7040,0,1.00%,F,T)



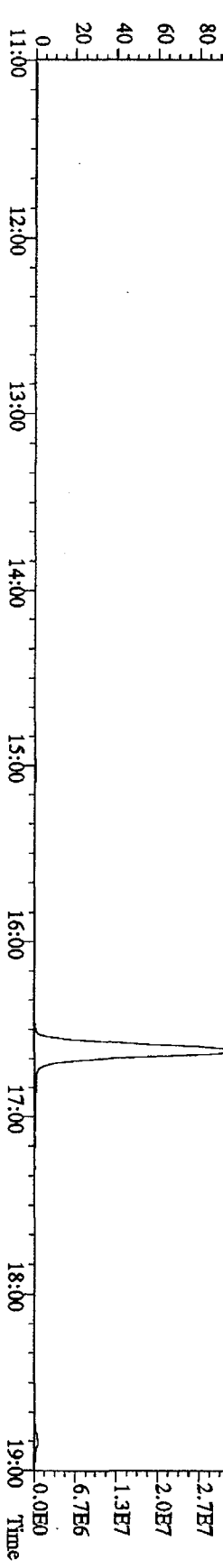
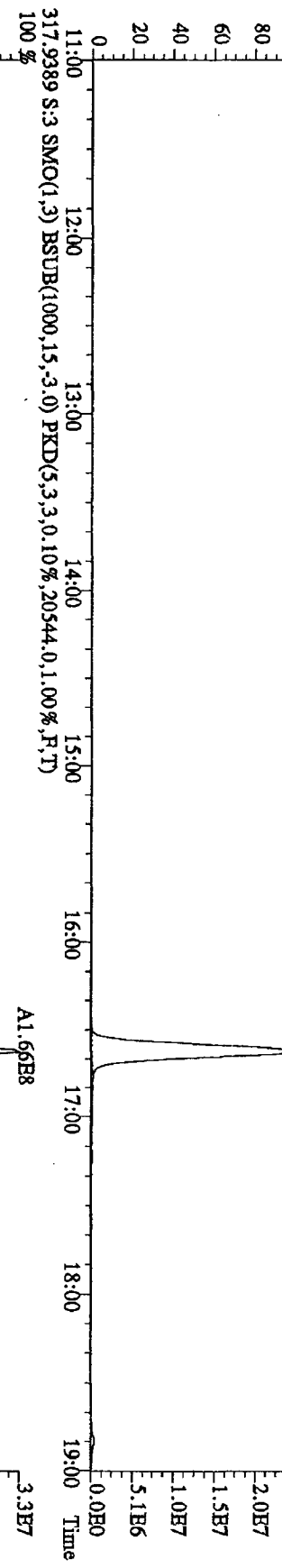
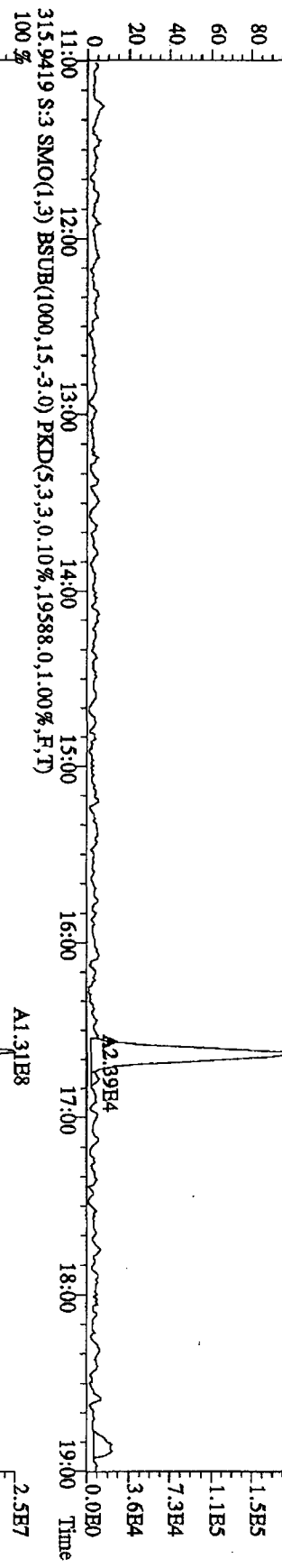
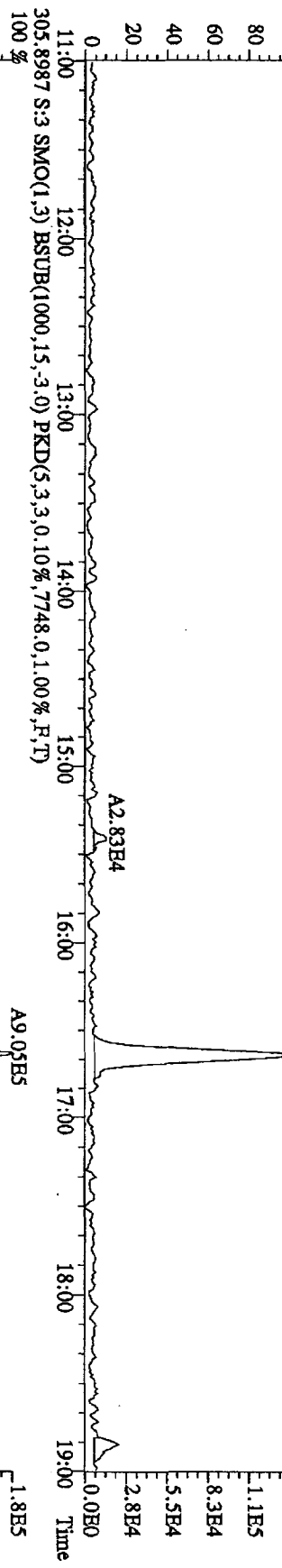
File: 29OCT10B5D2 #1-1242 Acq: 30-OCT-2010 00:05:50 GC EI + Voltage SIR 70SB
 Sample#1 Text: CP1029A :DB-225 CPSM: 3732-06 AM Exp: DB225RBS
 327.8840 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10316,0,1.00%,F,T)



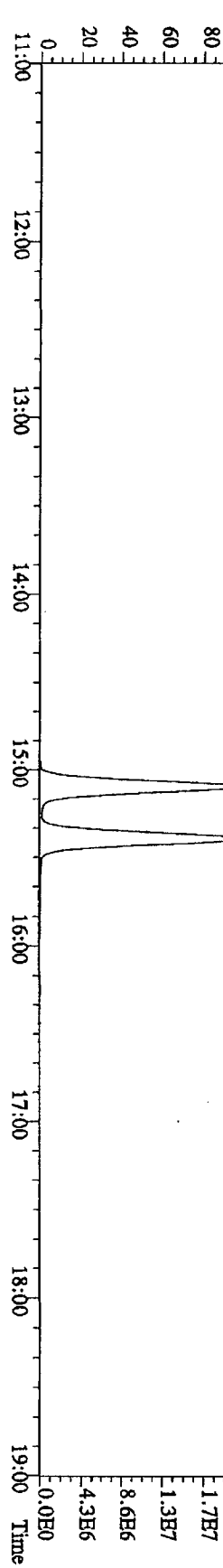
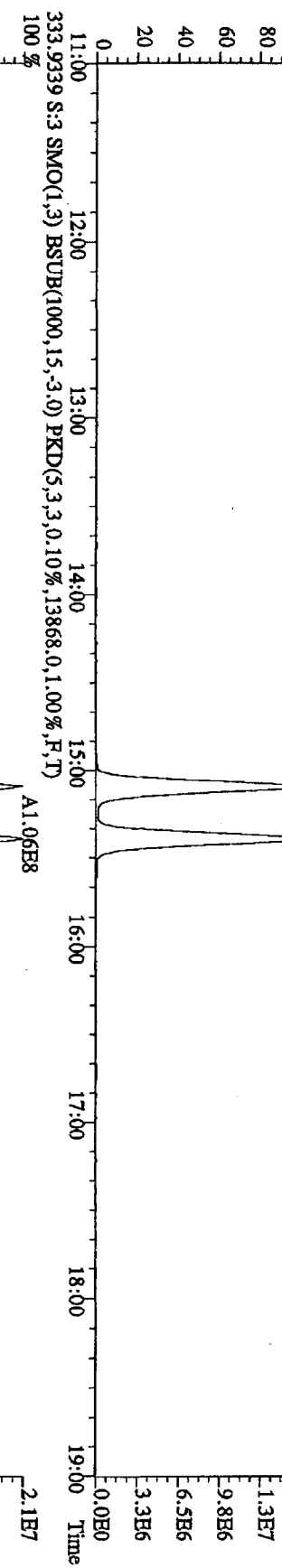
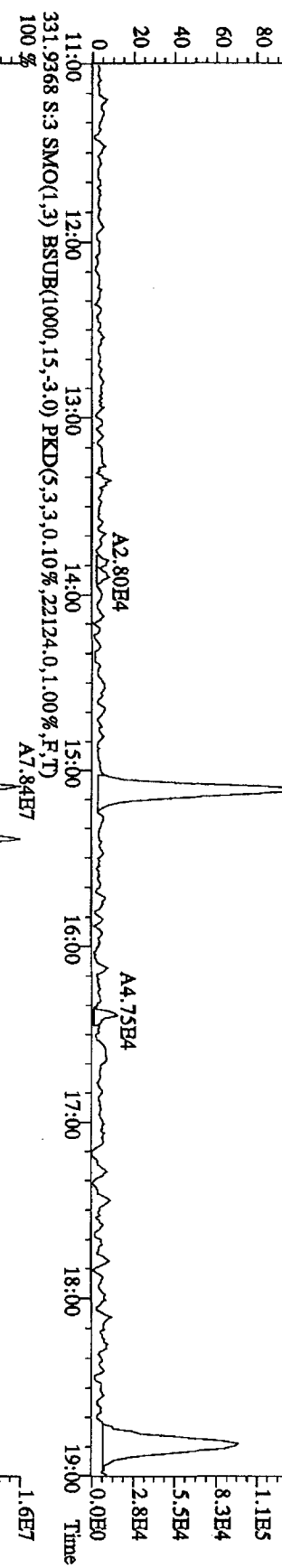
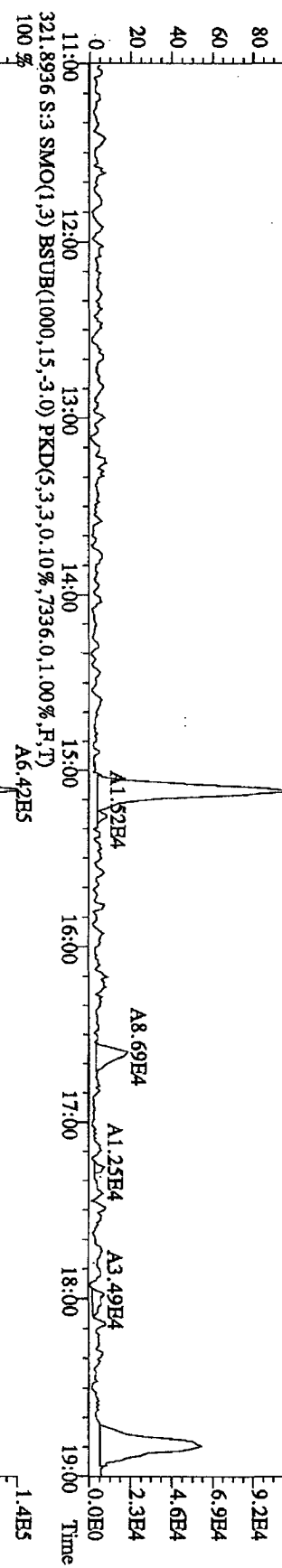
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 00:05:50 GC EI+ Voltage SIR 70SB
 Sample#1 Text: CP1029A :DB-225 CPISM 373-06 AM Exp: DB225RES
 375.8364 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,0.1,0.00%,F,T)



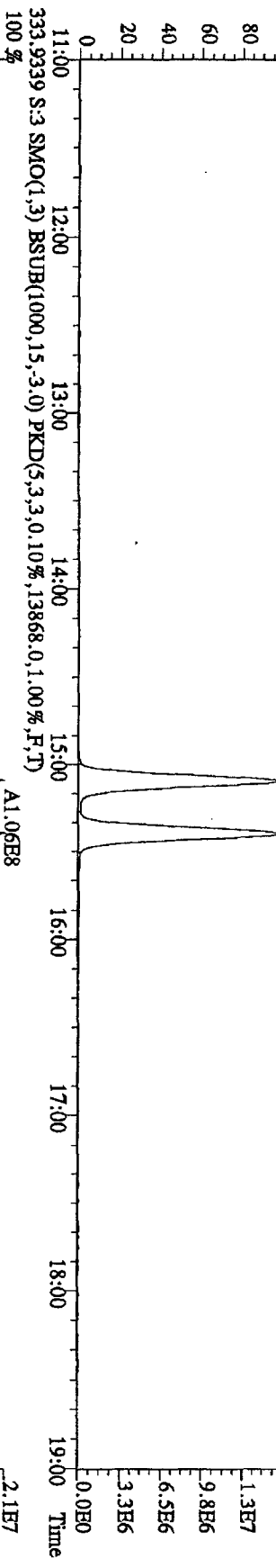
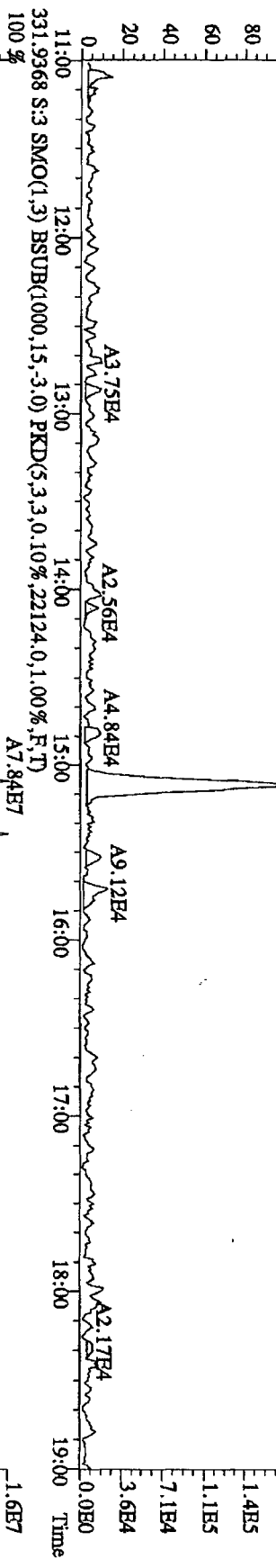
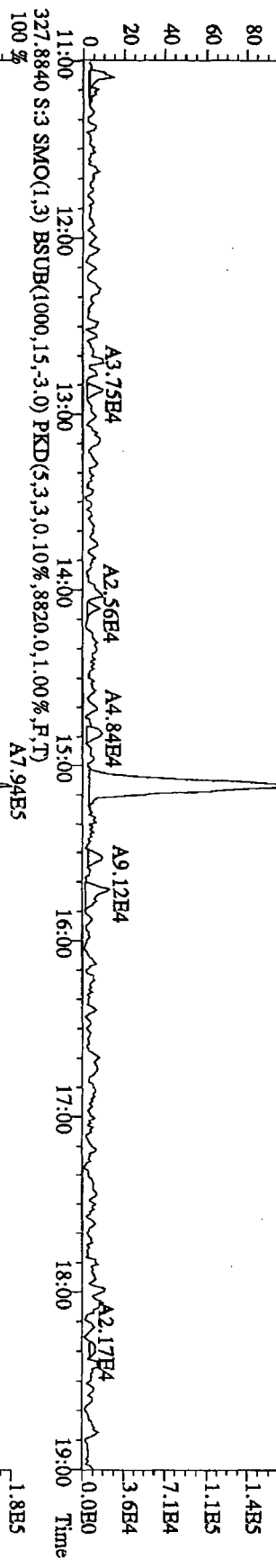
File: 29OC10B5D2 #1-1242 Acq: 30-OCT-2010 01:18:06 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1029B :CS-1 10DXN503 AM Exp: DB25RES
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5784,0.1,00%,F,T)
 100%



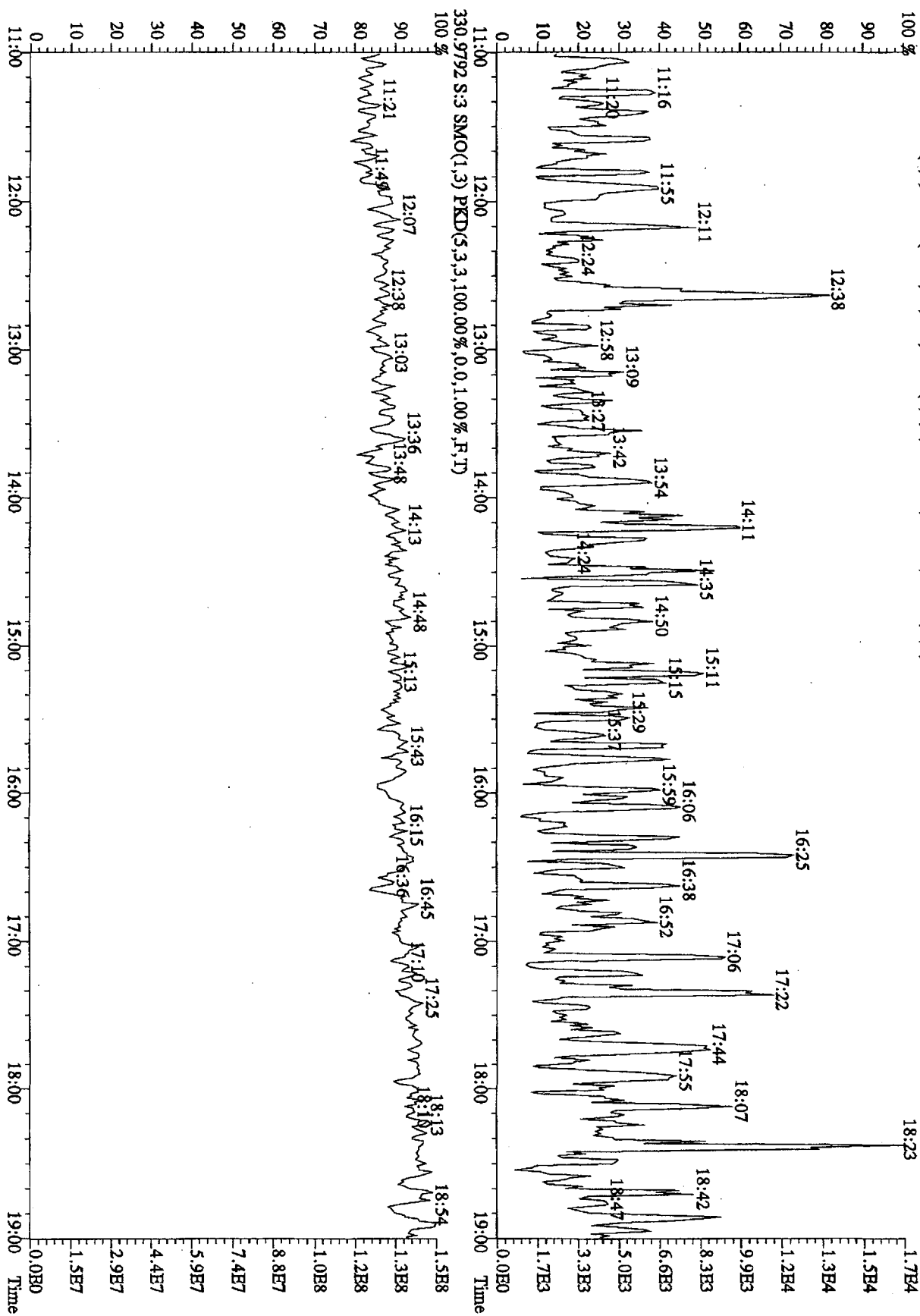
File:29OC10B5D2 #1-1242 Acq:30-OCT-2010 01:18:06 GC HI + Voltage SIR 70SE
 Sample#3 Text:ST1029B :CS-1 10DXN503 AM Exp:DB225RES
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6220.0,1.00%,F,T)



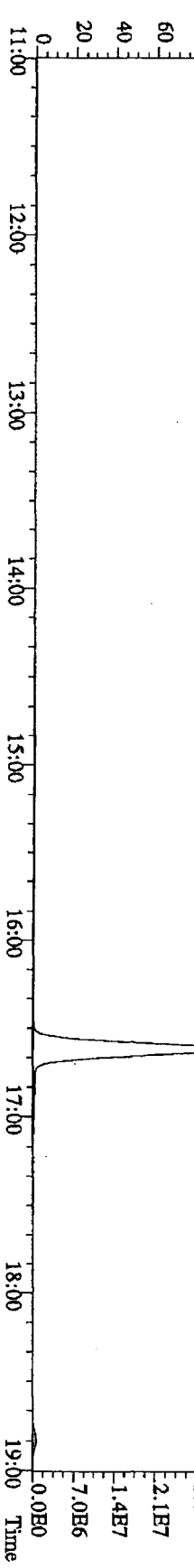
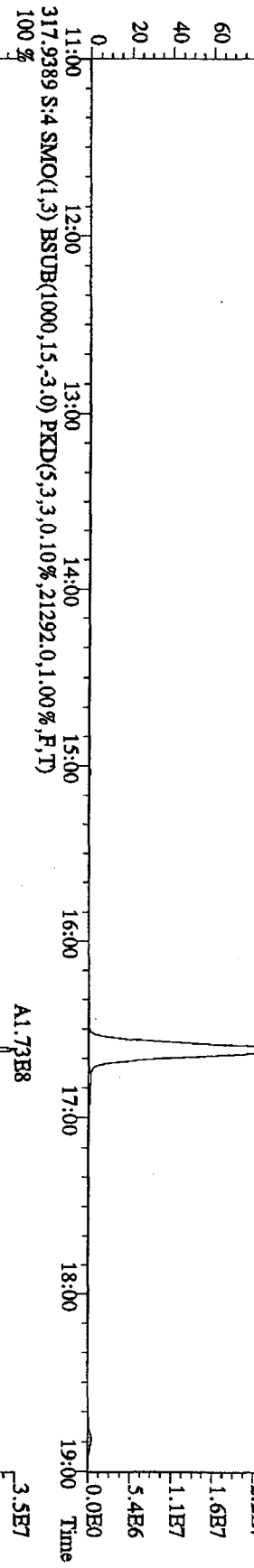
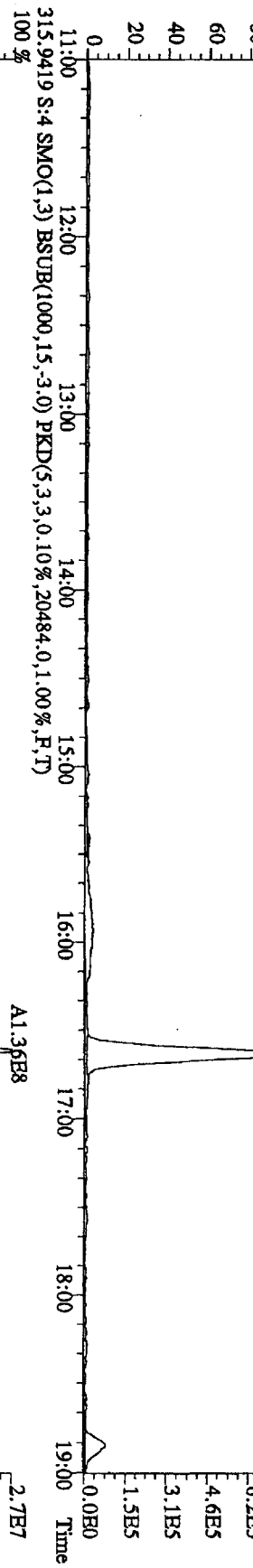
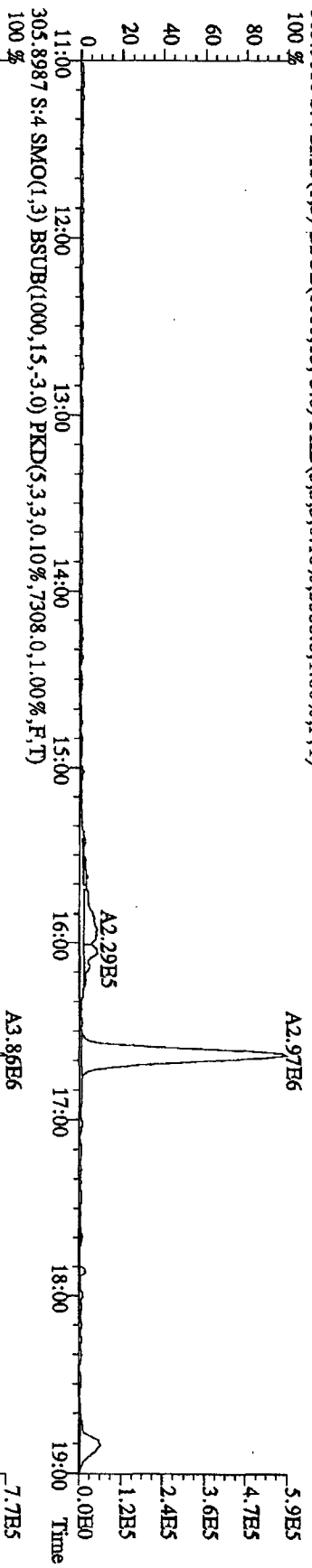
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 01:18:06 GC EI+ Voltage SIR 70SB
 Sample#3 Text: ST1029B :CS-1 10DXN503 AM Exp: DB225RBS
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8820,0,1,00%,F,T)
 100%



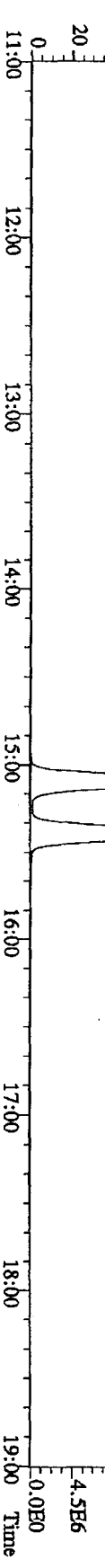
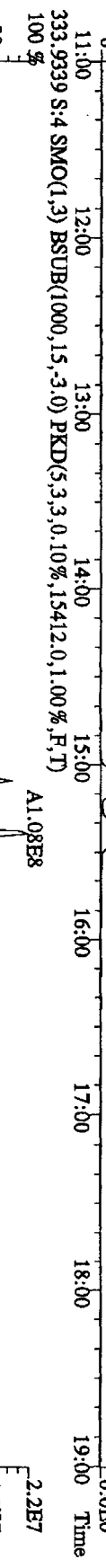
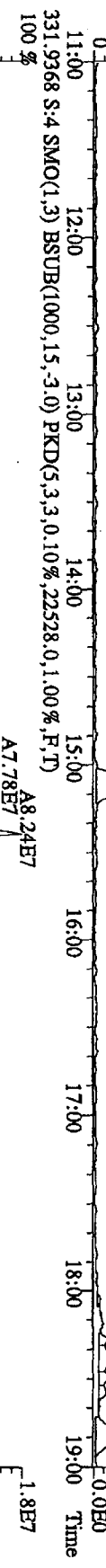
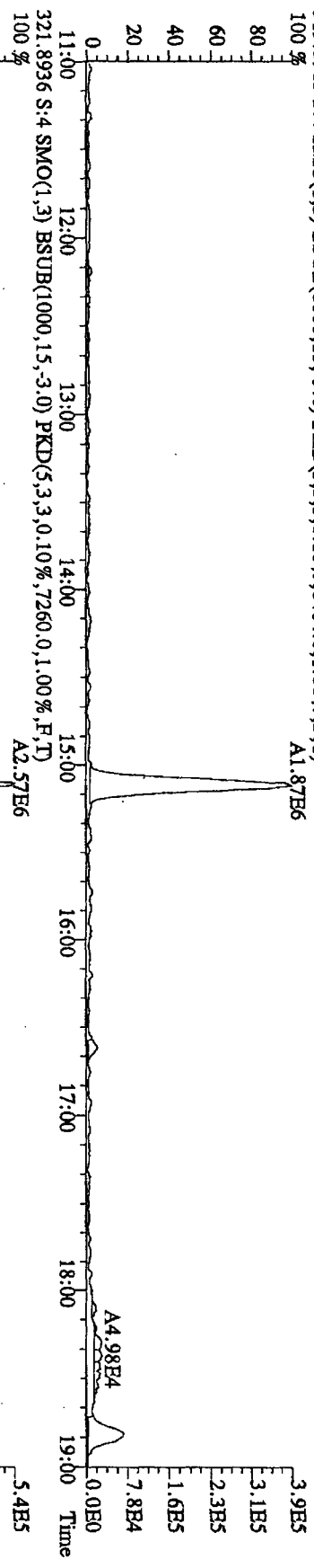
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 01:18:06 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1029B :CS-1 10DXN503 AM Exp: DB25RES
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100,0.0%,4256.0,1.00%,F,T)



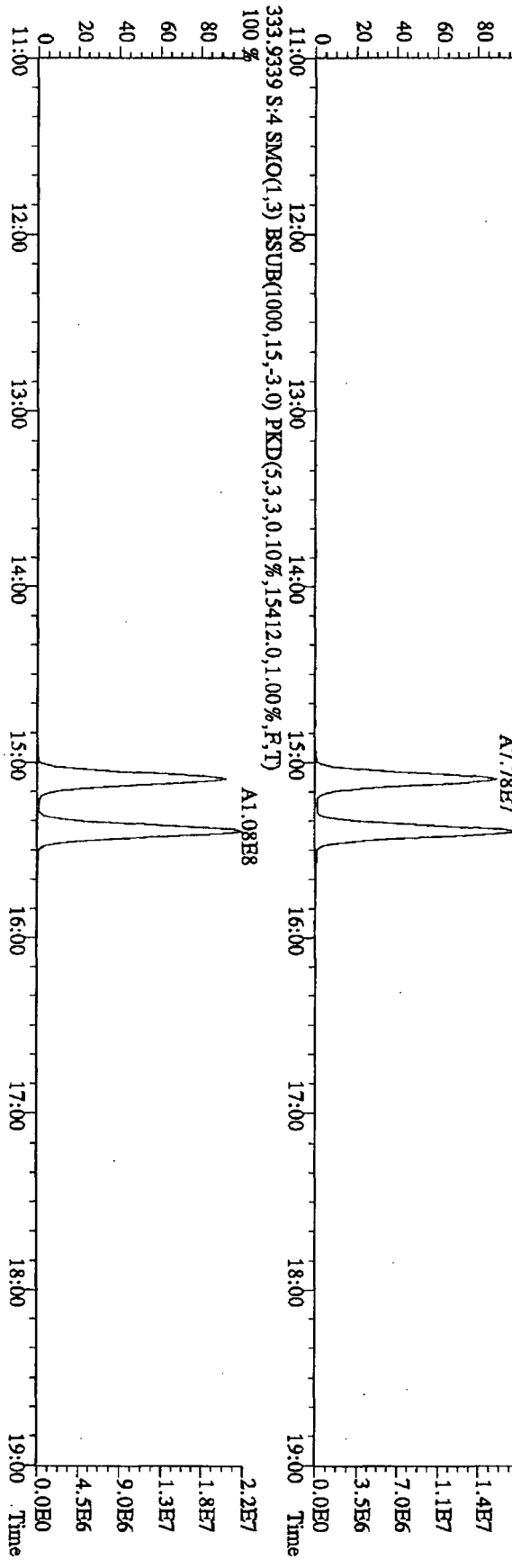
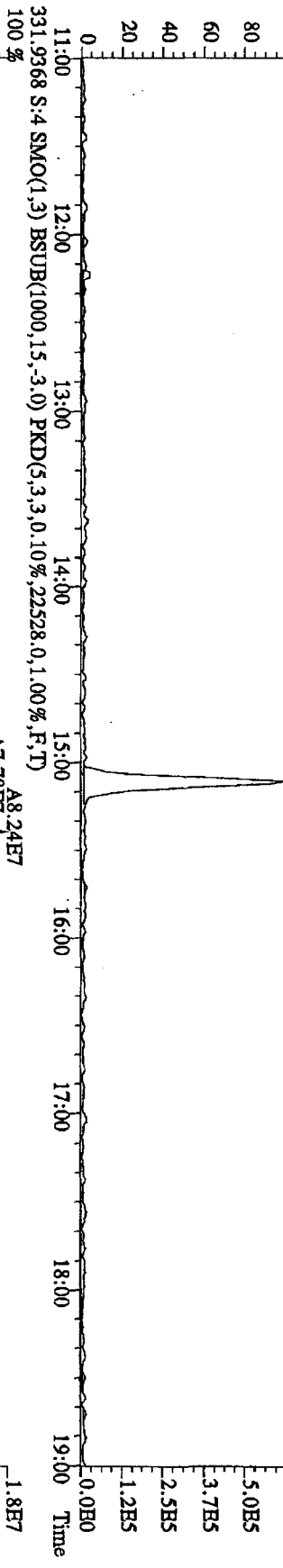
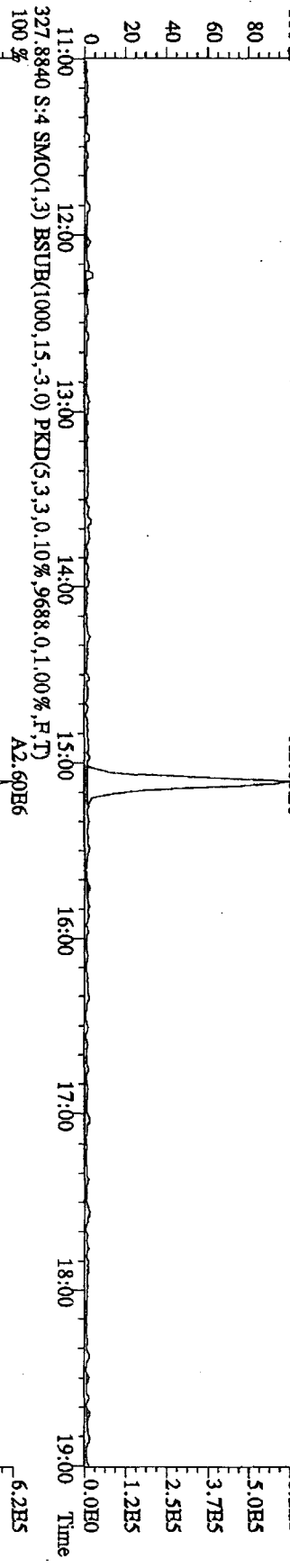
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 01:54:18 GC EI+ Voltage SIR 70SB
 Sample#4 Text:ST1029C :CS-2 10DXN504 AM Exp:DB25RES
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5588.0,1.00%,F,T)
 100 %



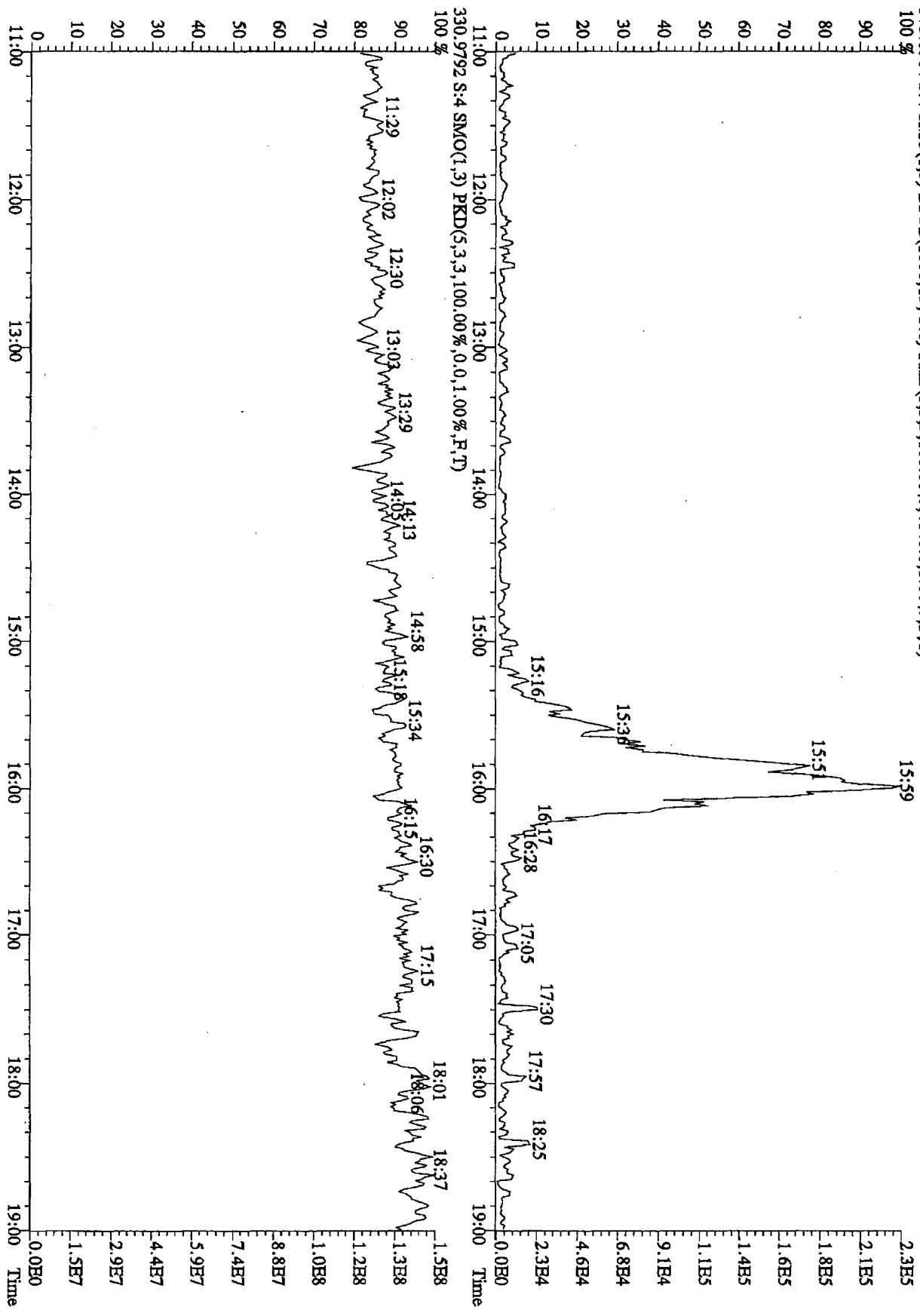
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 01:54:18 GC EI + Voltage SIR 70SE
 Sample#4 Text: ST1029C :CS-2 10DXN504 AM Exp: DB225RES
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6464,0.1,0.0%,F,T)
 100%



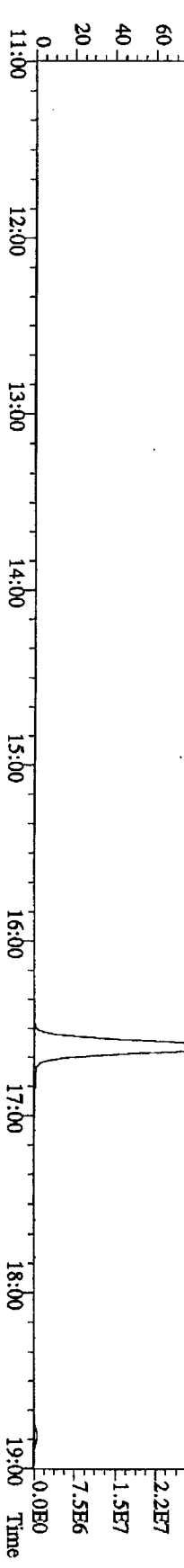
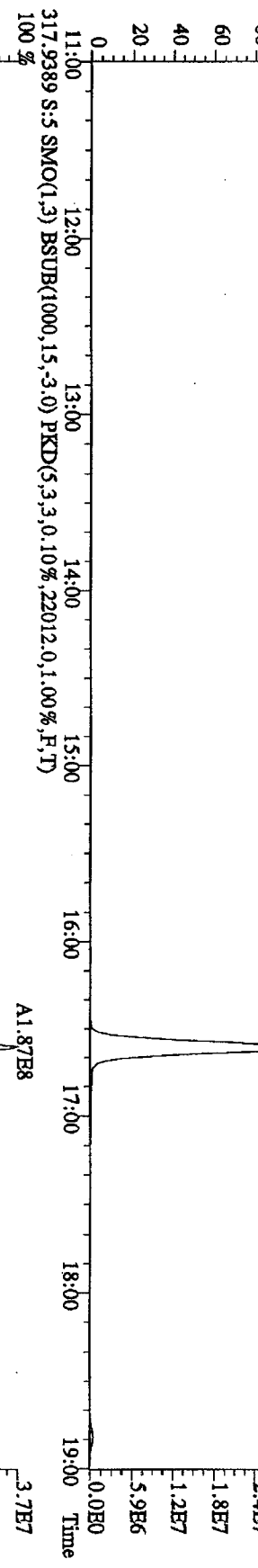
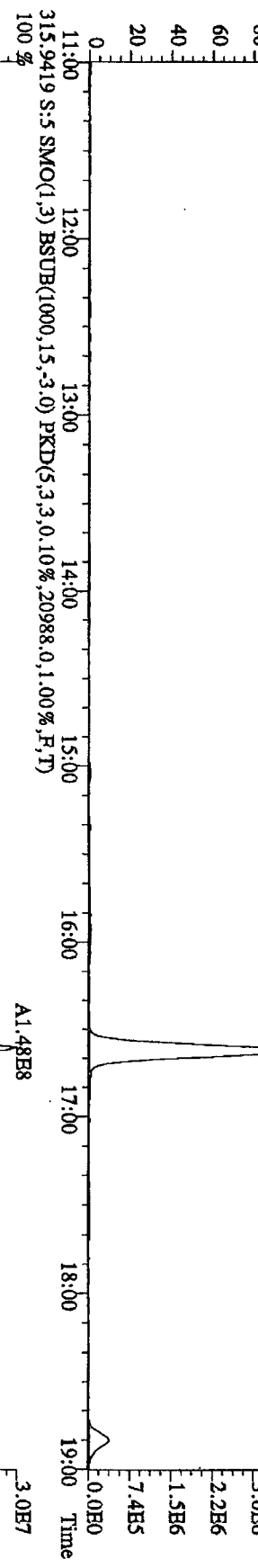
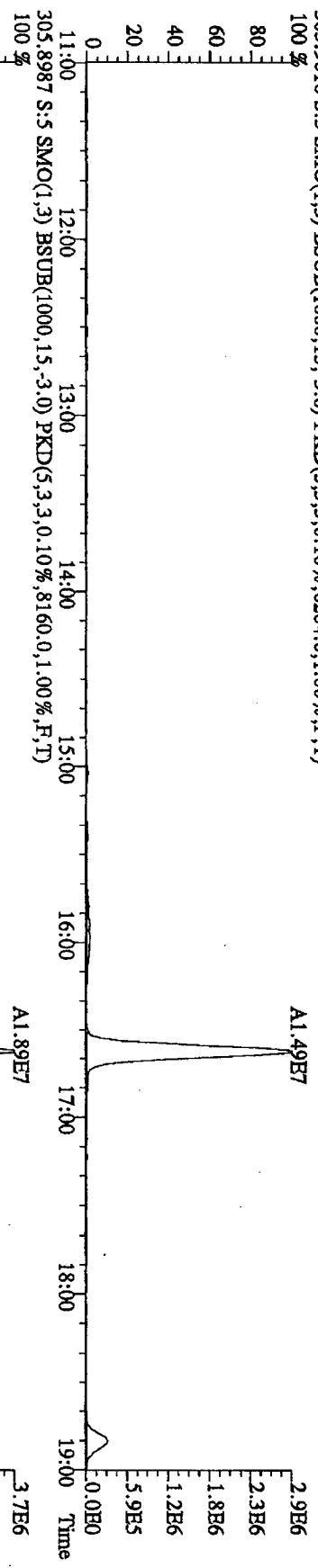
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 01:54:18 GC FI+ Voltage SIR 70SE
 Sample#4 Text: ST1029C : CS-2 10DXN504 AM Exp: DB225RBS
 327,8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9688,0,1,00%,F,T)
 100%



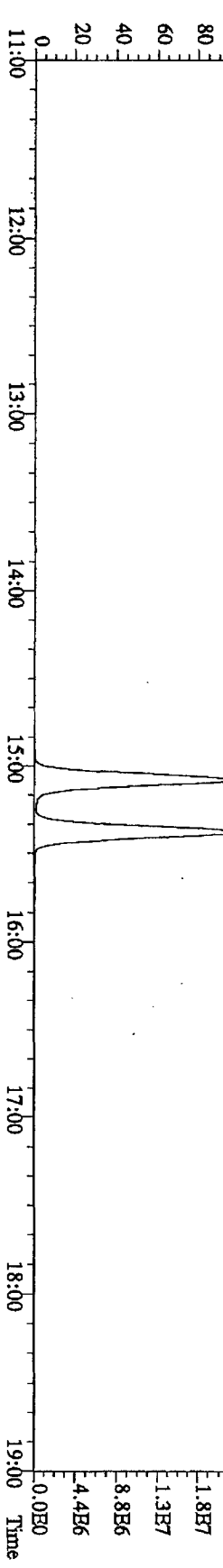
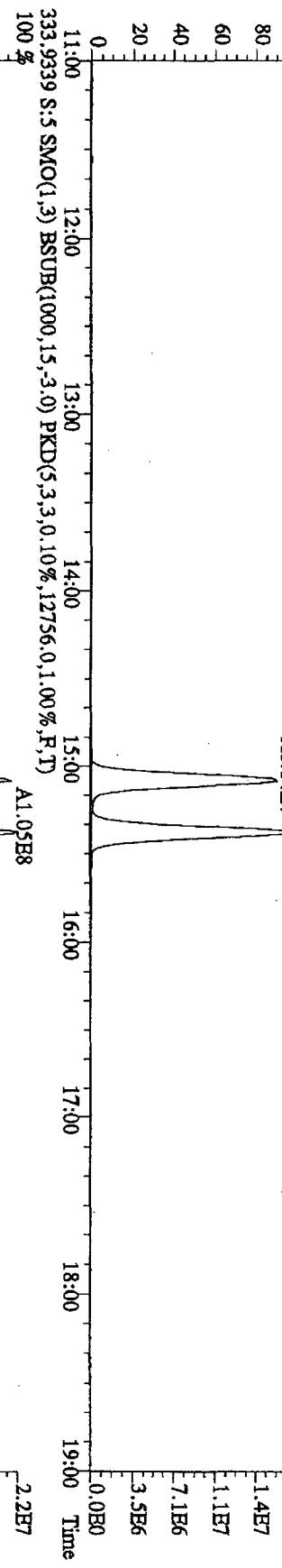
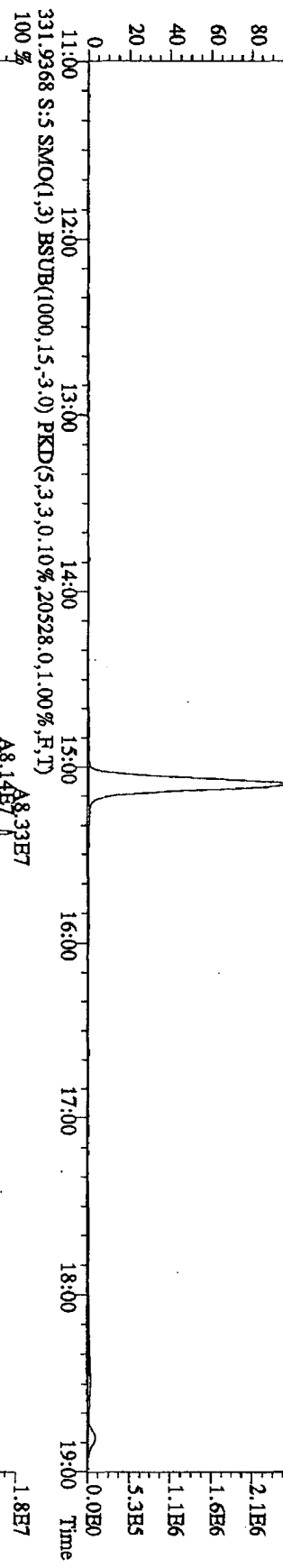
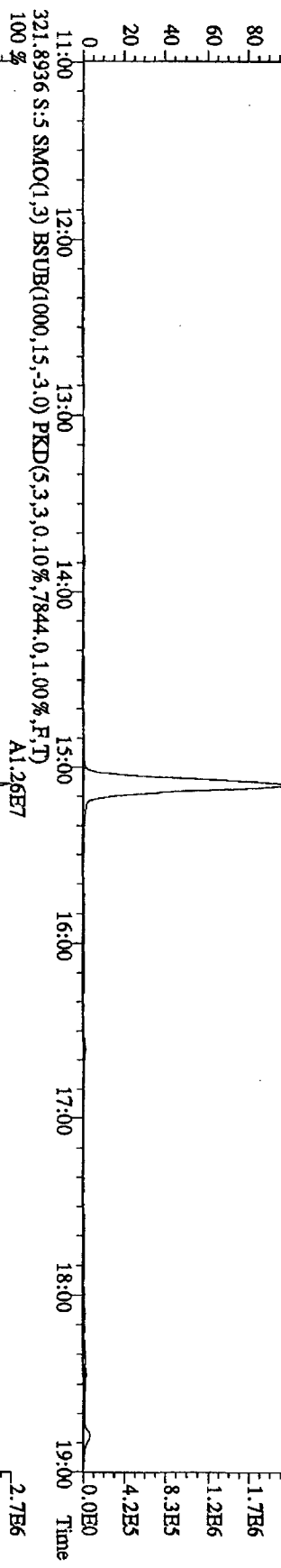
File:29OC10B5D2 #1-1242 Acq:30-OCT-2010 01:34:18 GC EI+ Voltage SIR 70SH
 Sample#4 Text:ST1029C :CS-2 10DXNS04 AM Exp:DB225RES
 375.8364 S:4 SMO(1,3) BSTDB(1000,15,-3,0) PKD(5,3,3,100.00%,4640.0,1.00%,F,T)



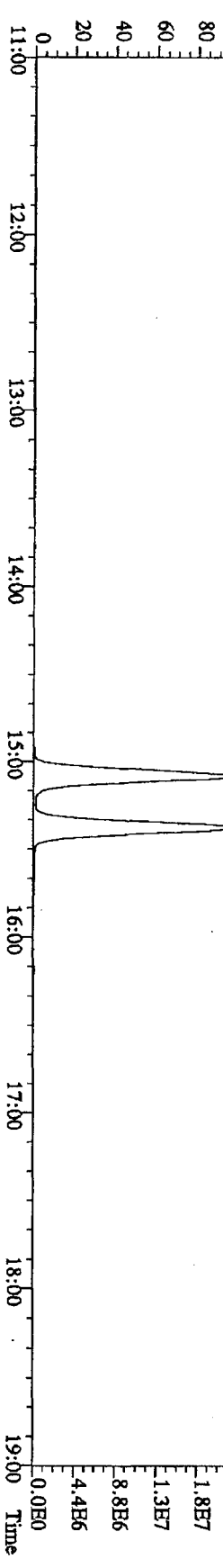
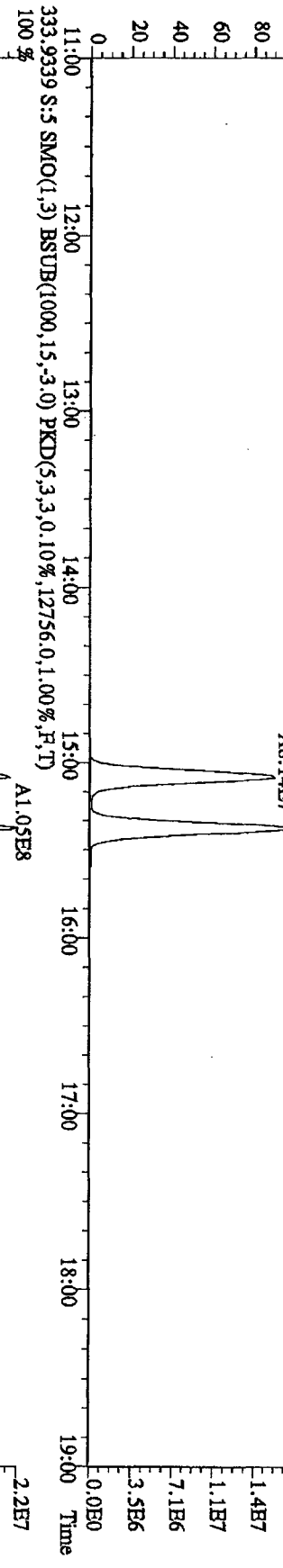
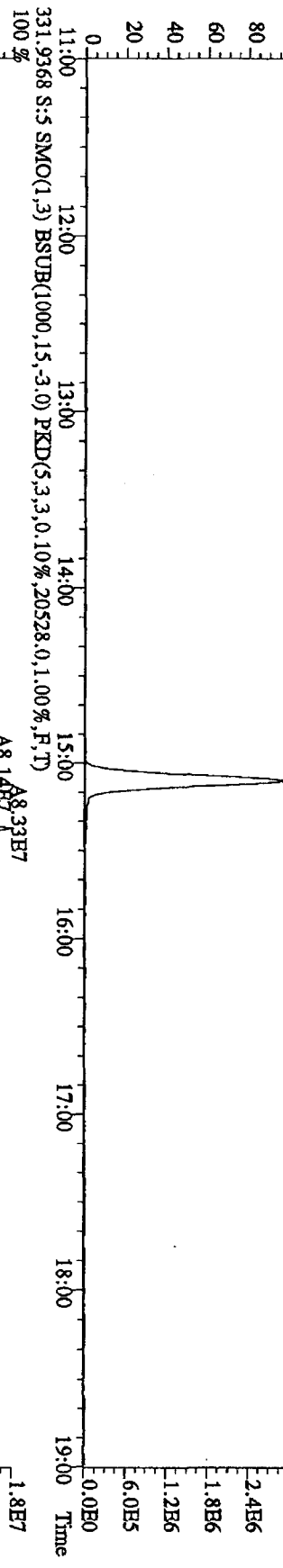
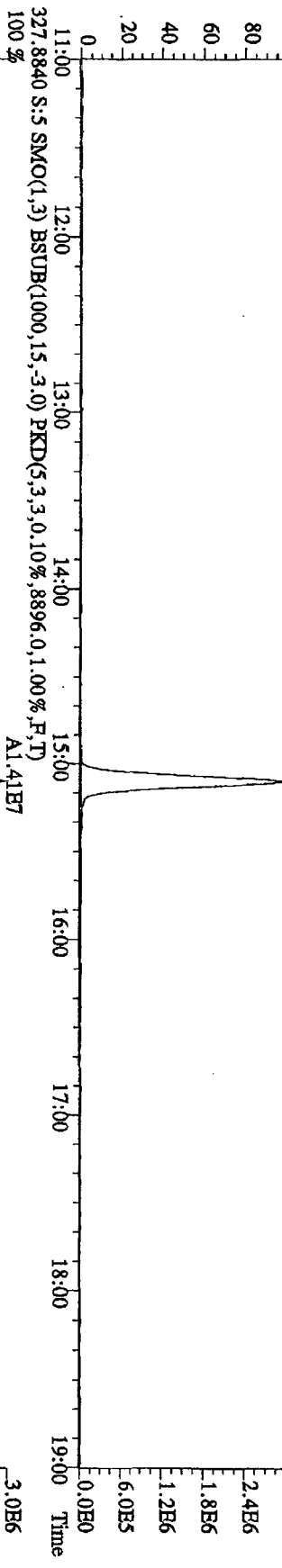
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 02:30:29 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029D :CS-3 10DXN505 AM Exp:DB225RES
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6284,0,1,00%,F,T)
 100 %



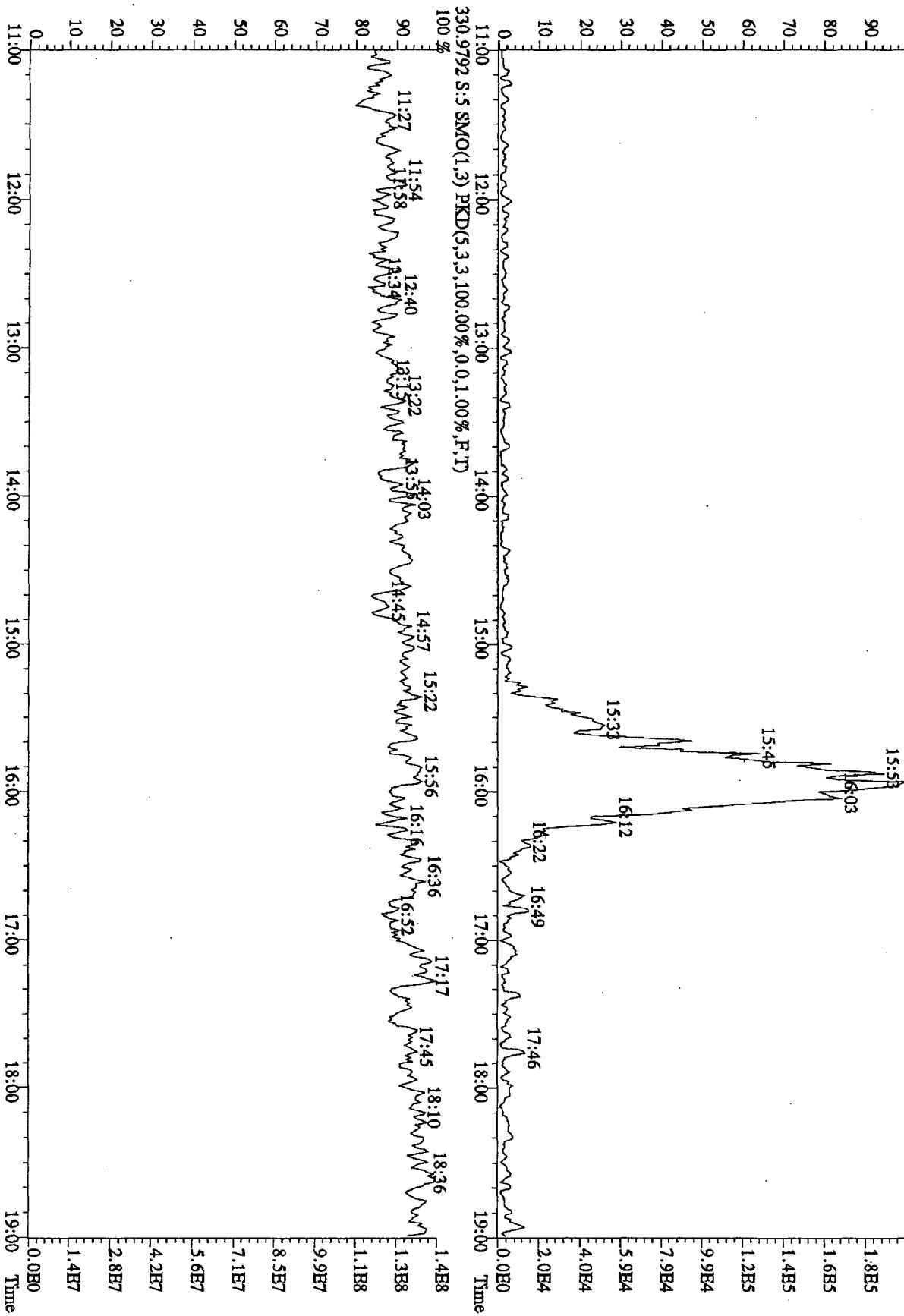
File:29OC10B5D2 #1-1242 Acq:30-OCT-2010 02:30:29 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1029D :CS-3 10DXN505 AM Exp:DB225RES
 319,8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6308,0,1,00%,F,T)
 100 % A9,84E6



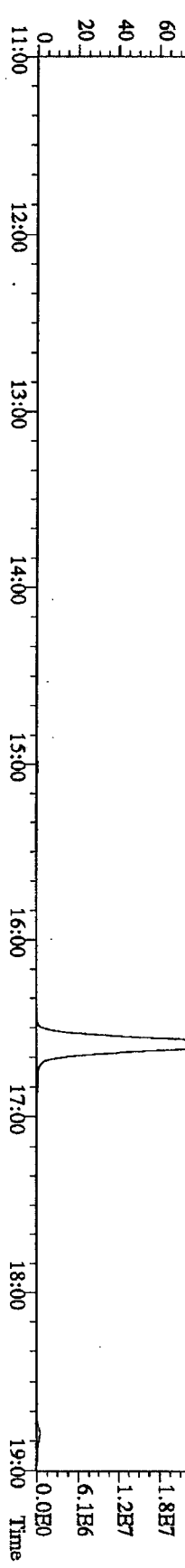
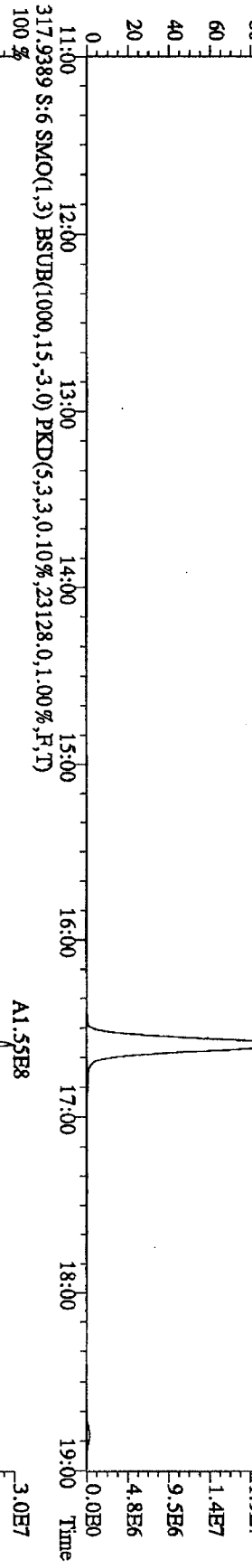
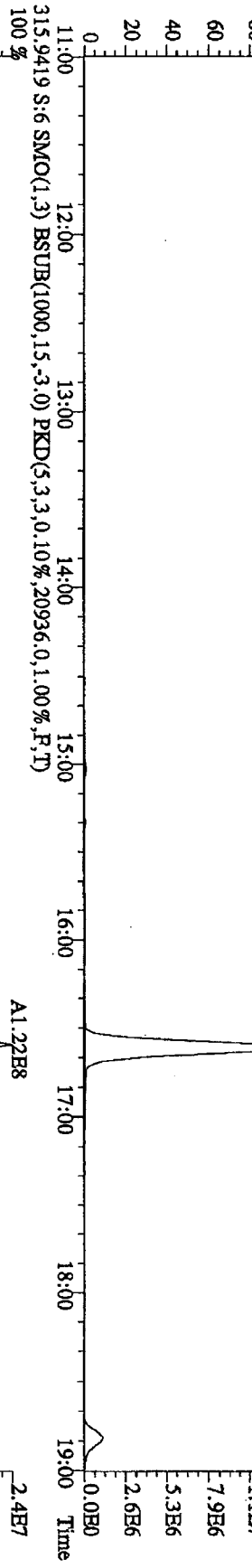
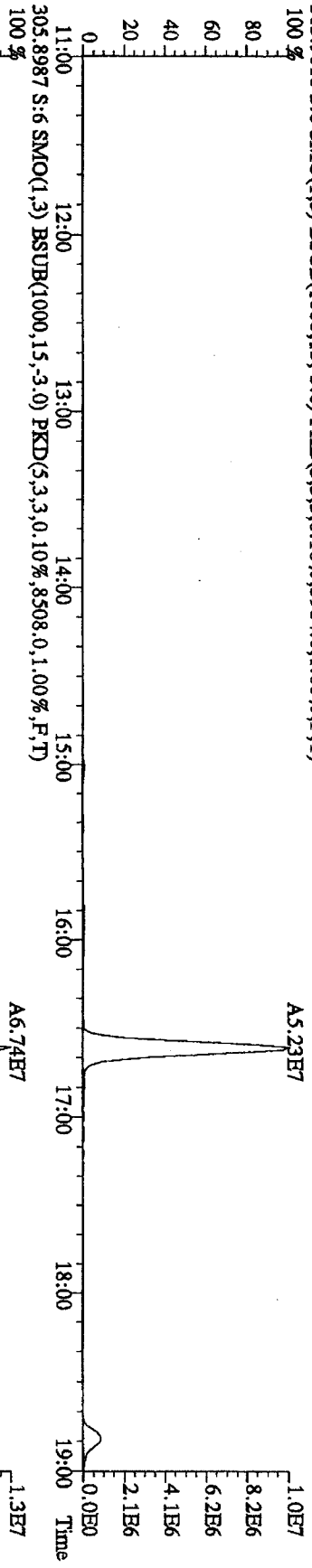
File:29OC10B5D2 #1-1242 Acq:30-OCT-2010 02:30:29 GC BI+ Voltage SIR 70SE
 Sample#5 Text:ST1029D :CS-3 10DXN505 AM Exp:DB225REB
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8896,0,1.00%,F,T)
 100 %



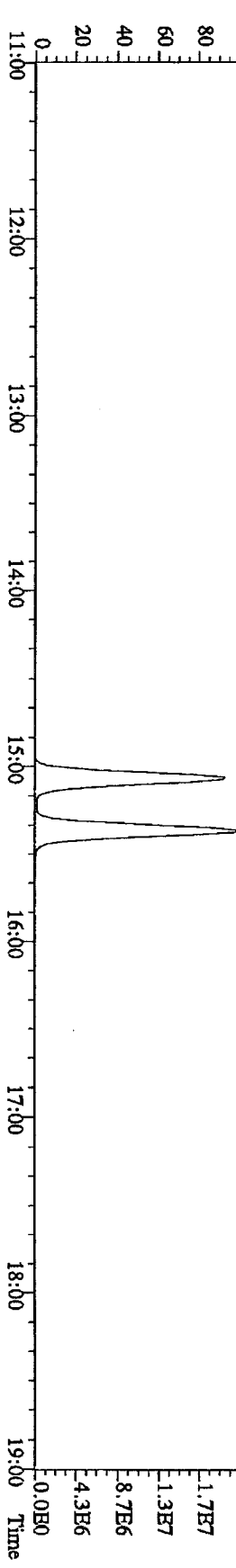
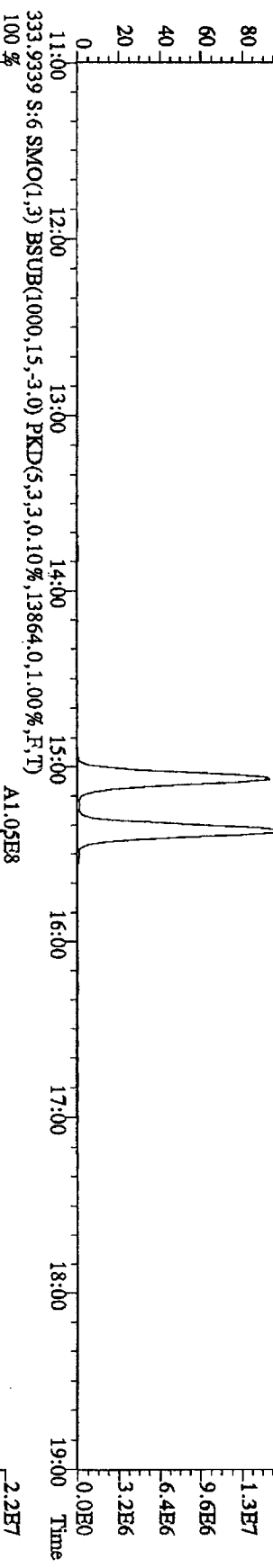
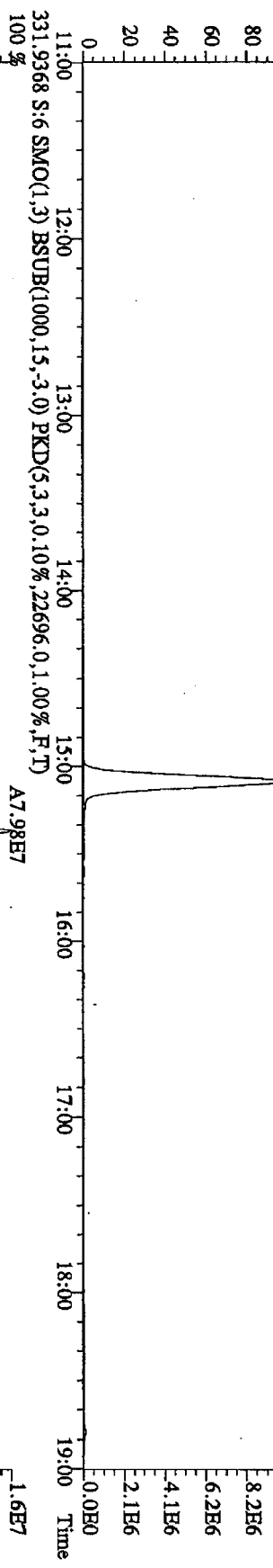
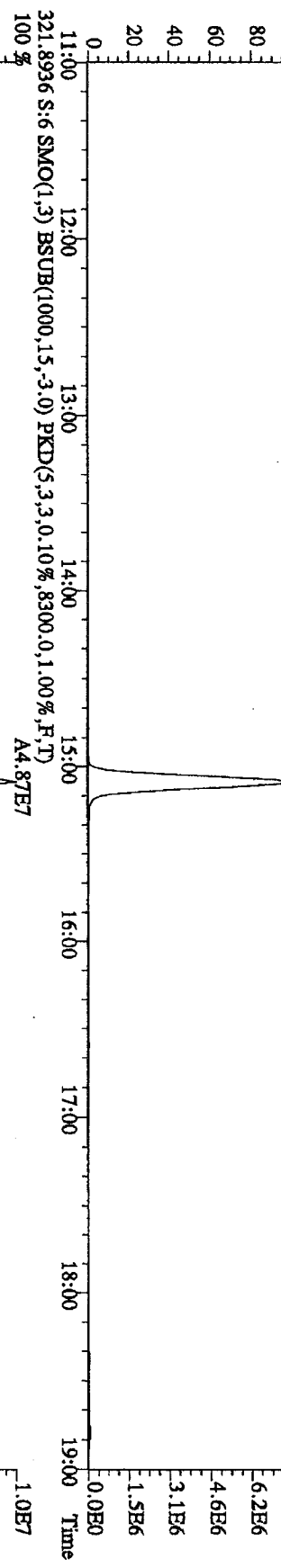
File: 29OCT10B5D2 #1-1242 Acq: 30-OCT-2010 02:30:29 GC EI+ Voltage SIR 70SE
 Sample# 5 Text: ST1029D :CS-3 10DXN505 AM Exp: DB225RES
 375.8364 S: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



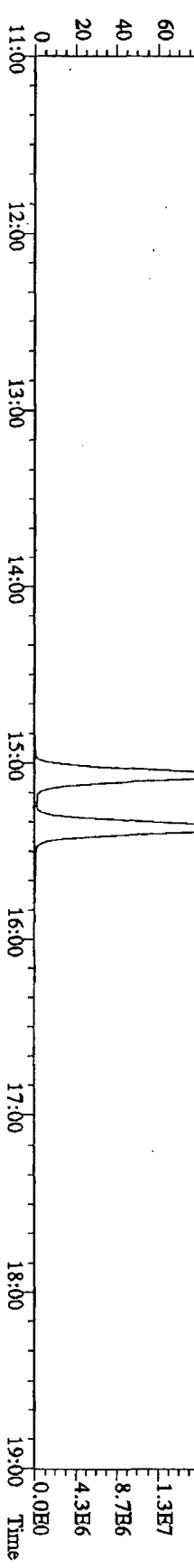
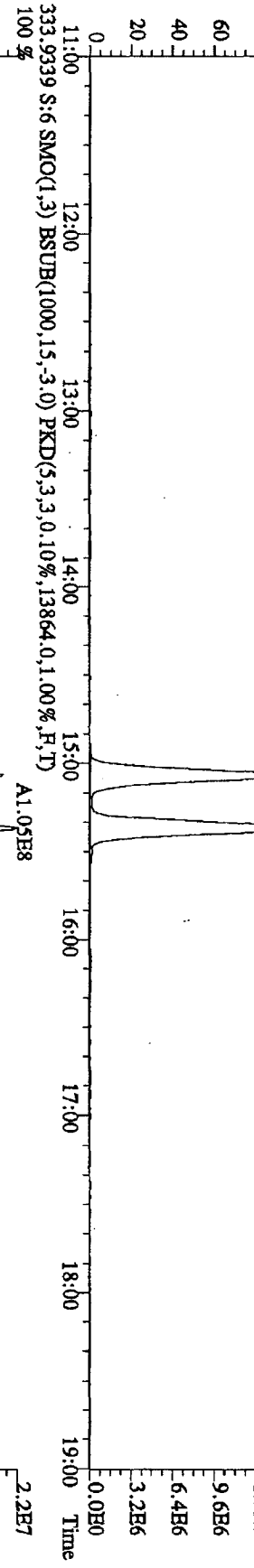
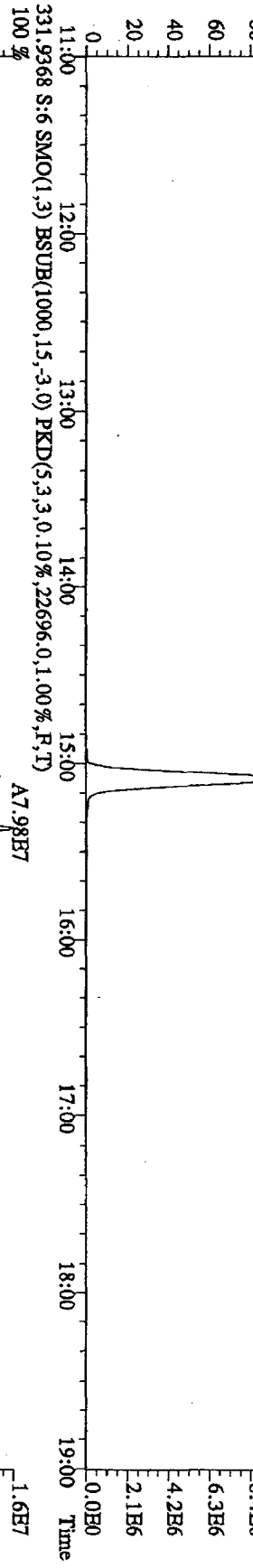
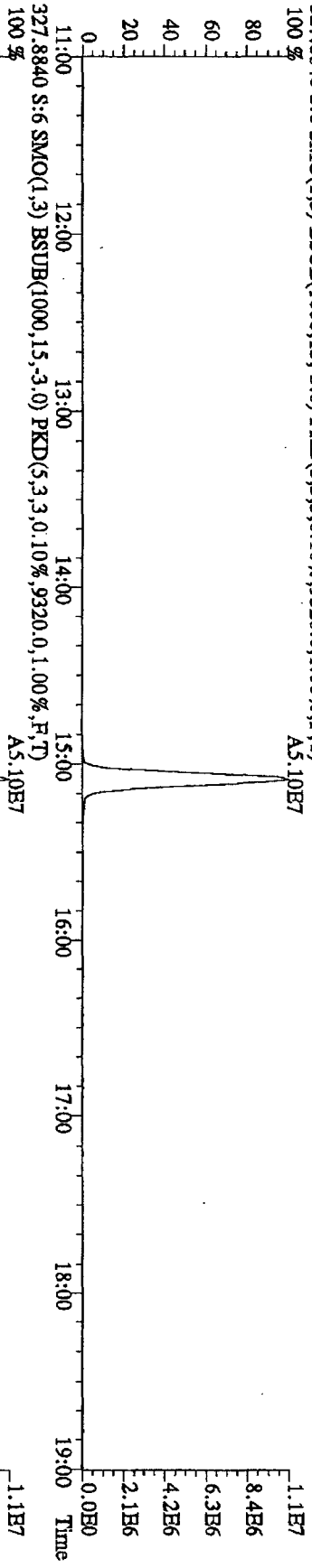
File:29OC10B5D2 #1-1241 Acq:30-OCT-2010 03:06:38 GC HI+ Voltage SIR 70SB
 Sample#6 Text:ST1029E :CS-4 10DXN506 AM Exp:DB225RES
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5984,0,1,00%,F,T)
 100 %



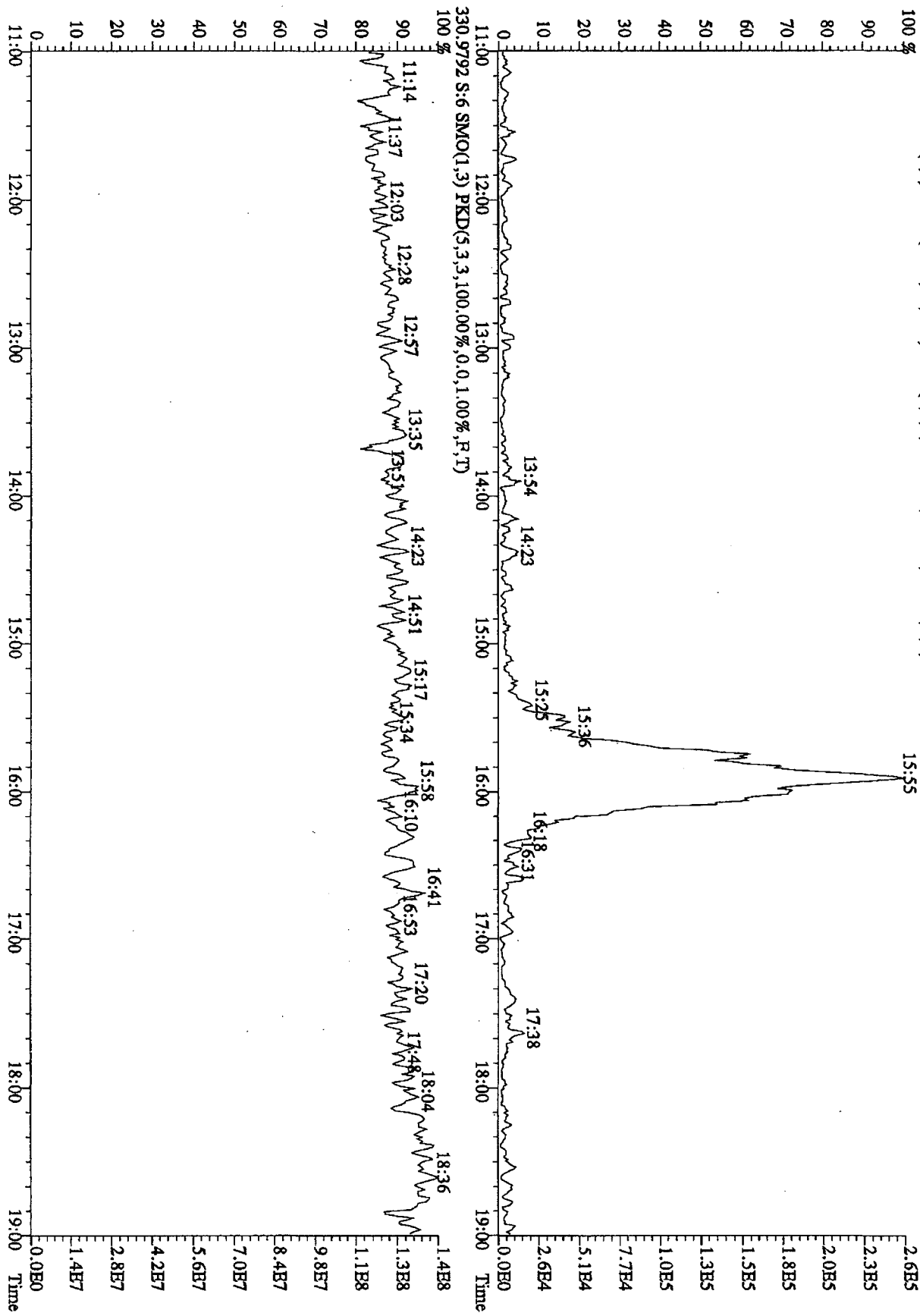
File:29OC10B5D2 #1-1241 Acq:30-OCT-2010 03:06:38 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029E :CS-4 10DXN506 AM Exp:DB225RES
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6700.0,1.00%,F,T) A3.72E7



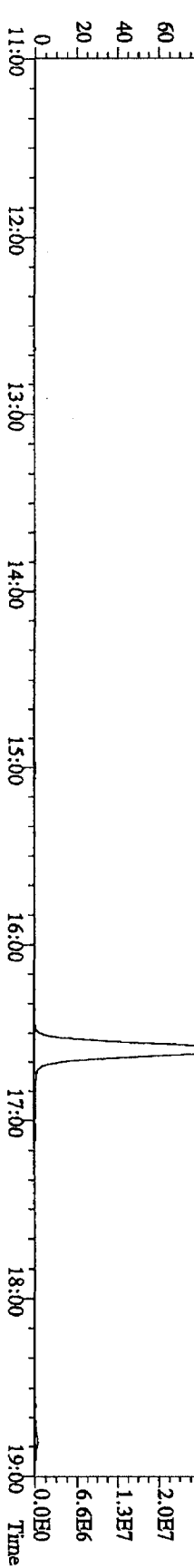
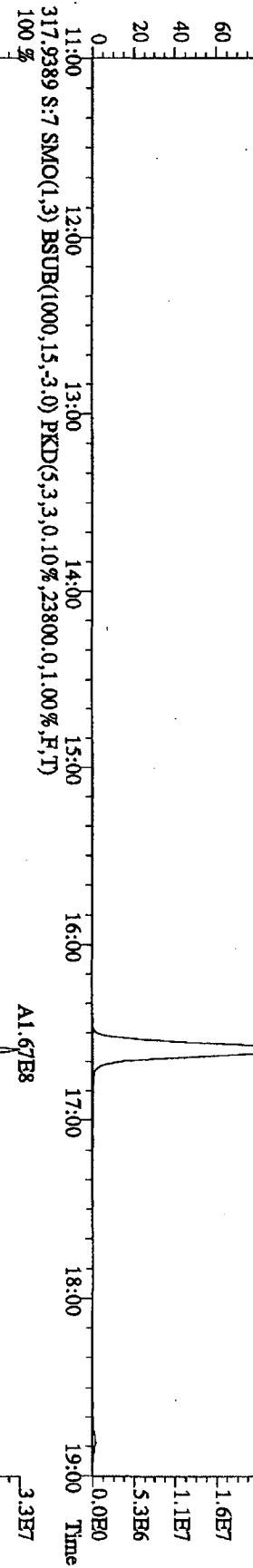
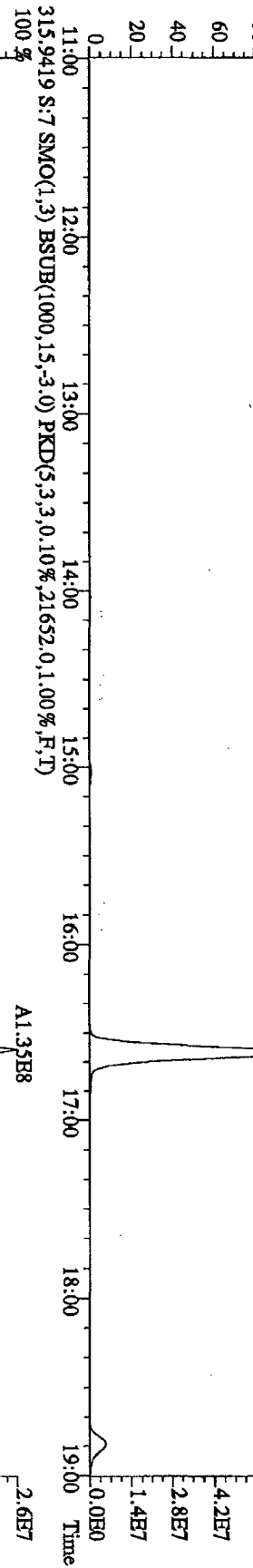
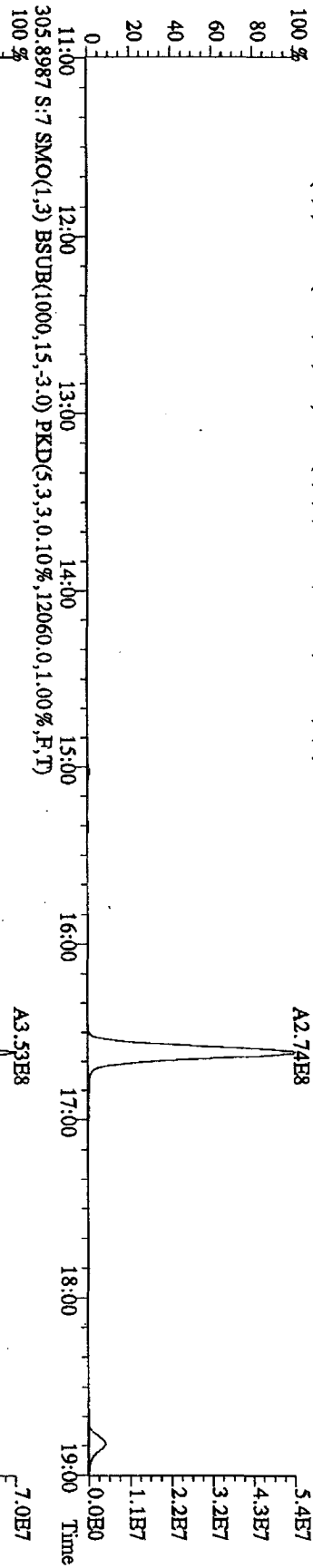
File:29OC10B5D2 #1-1241 Acq:30-OCT-2010 03:06:38 GC:EI+ Voltage SIR 70SE
 Sample#6 Text:ST1029E :CS-4 10DXN506 AM Exp:DB225RES
 327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9320.0,1.00%,F,T)
 100%



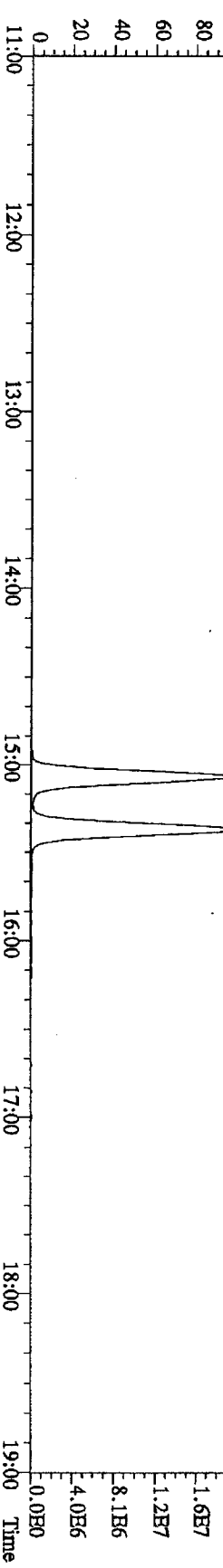
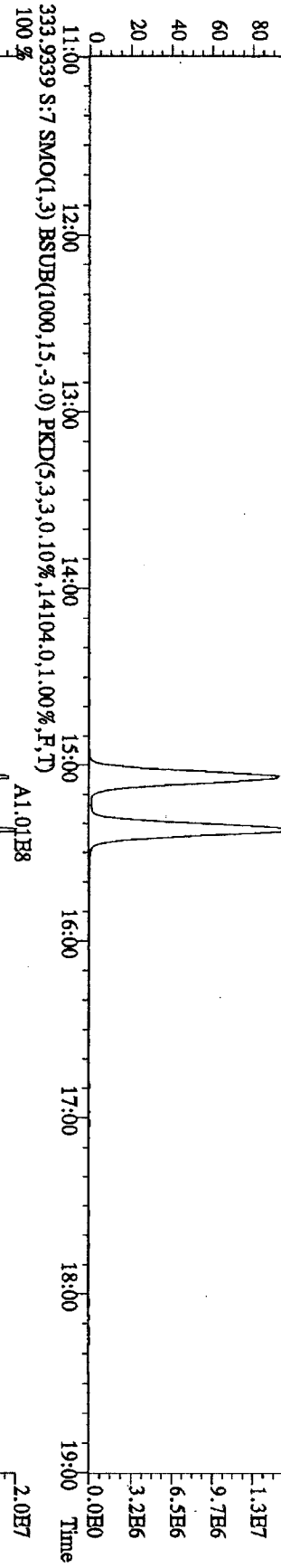
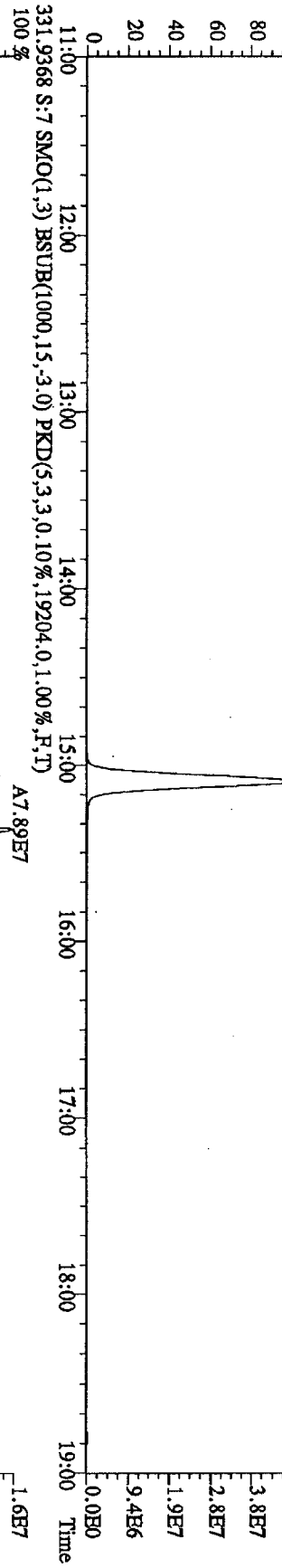
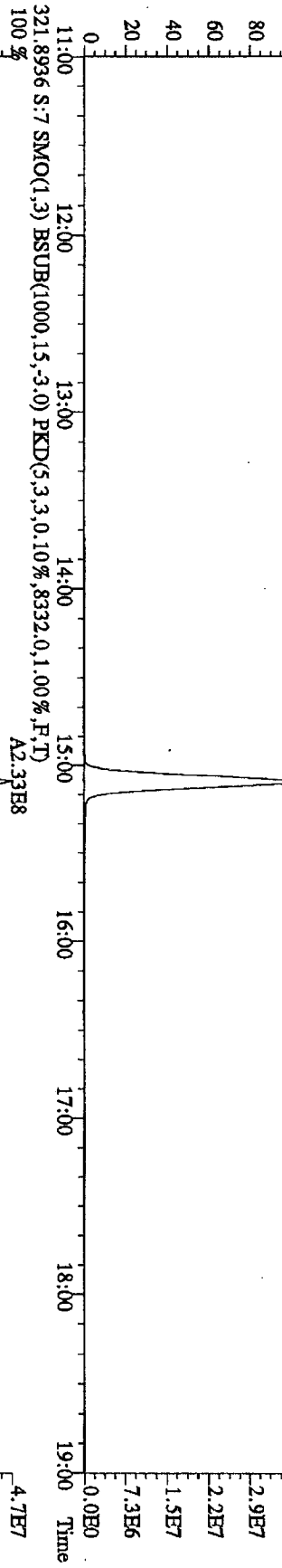
File: 2900C10B5D2 #1-1241 Acq: 30-OCT-2010 03:06:38 GC HI+ Voltage SIR 70SE
 Sample#6 Text: ST1029E :CS-4 10DXN506 AM Exp: DB225RES
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,4412.0,1.00%,F,T)



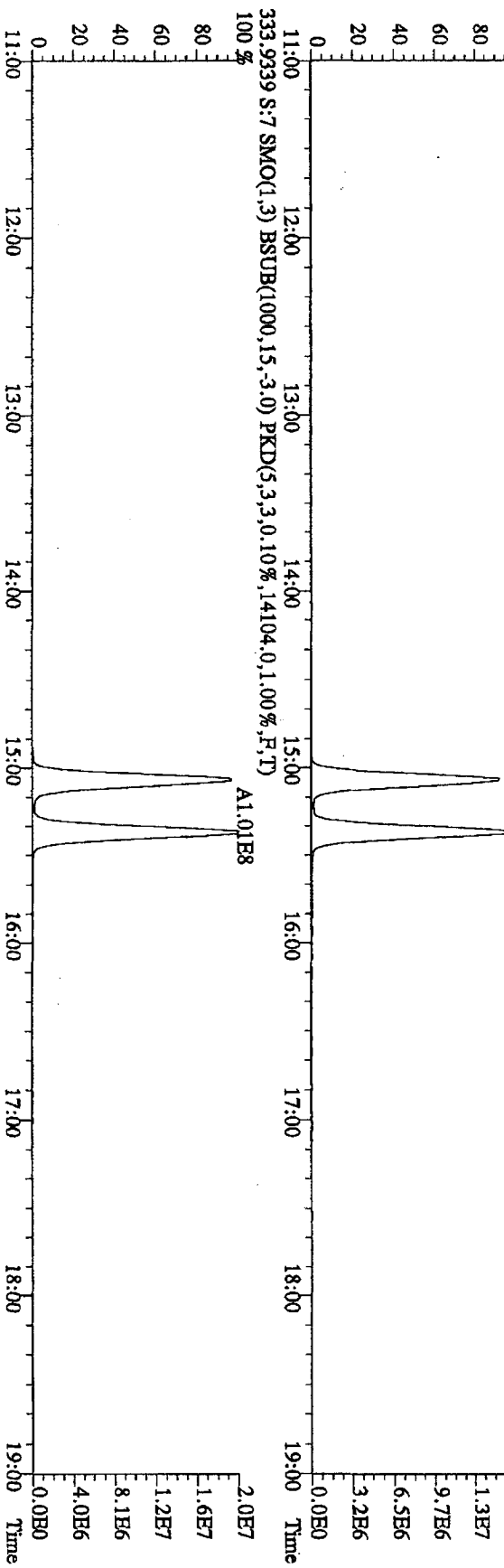
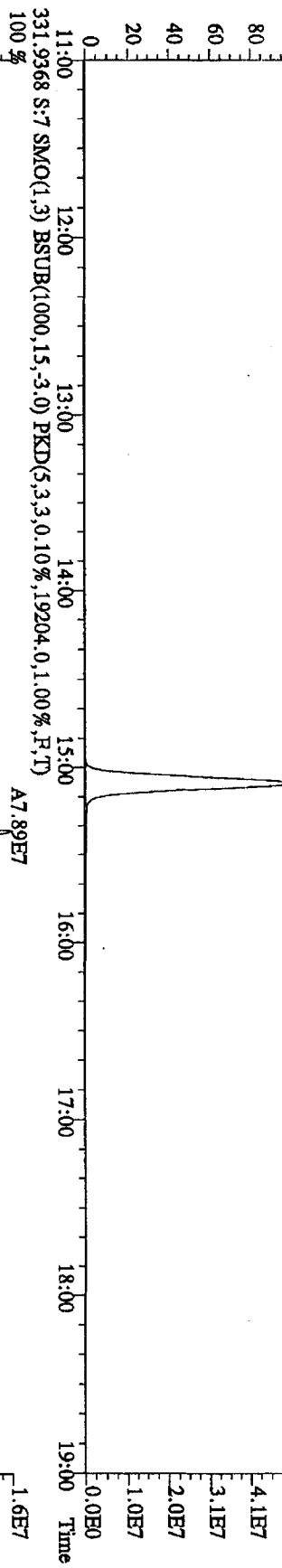
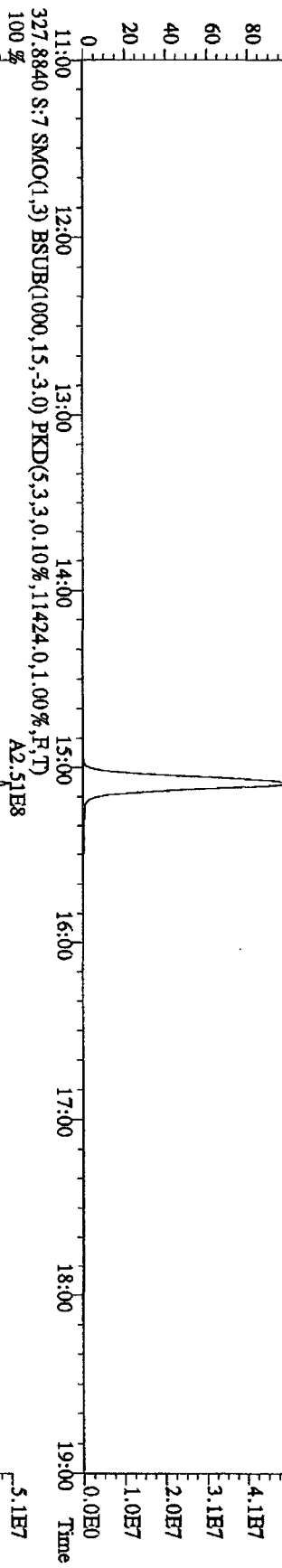
File:290C10B5D2 #1-1241 Acq:30-OCT-2010 03:42:45 GC EI+ Voltage SIR 70SB
 Sample#7 Text:ST1029F :CS-5 10DXN507 AM Exp:DB225RES
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440,0.1,0.0%,F,T)
 100 %



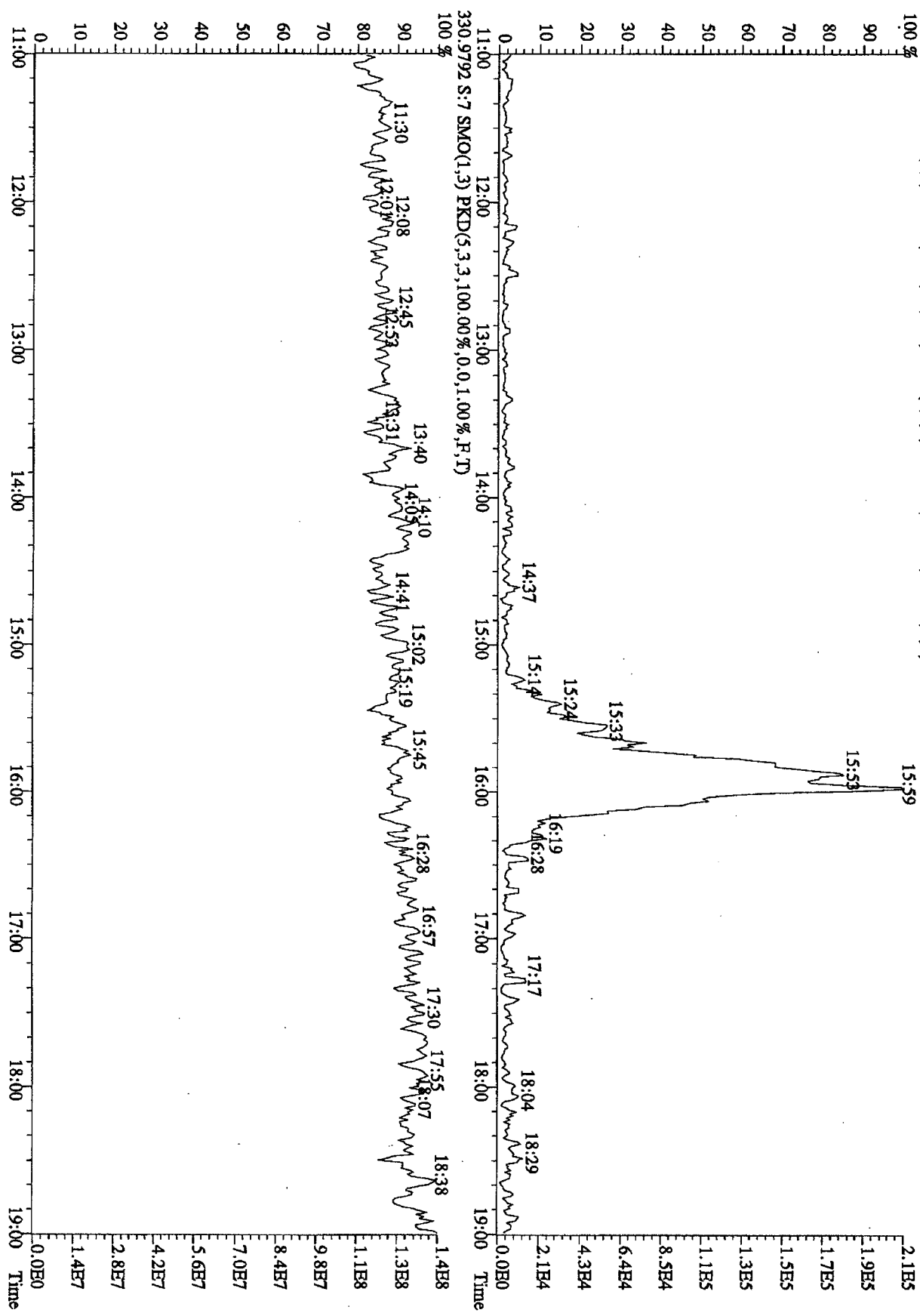
File:290C10B5D2 #1-1241 Acq:30-OCT-2010 03:42:45 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1029F :CS-5 10DXN507 AM Exp:DB225RES
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7060,0,1.00%,F,T) A1.82E8



File: 29OC10B5D2 #1-1241 Acq: 30-OCT-2010 03:42:45 GC BI + Voltage SIR 70SE
 Sample#7 Text: ST1029F :CS-5 10DXNS07 AM Exp: DB225RES
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11424,0,1,00%,F,T)
 100% A2.51E8



File: 29OCT10B5D2 #1-1241 Acq: 30-OCT-2010 03:42:45 GC HI + Voltage SIR 70SE
 Sample#7 Text: ST1029P : CS-5 10DXN507 AM Exp: DB225RHS
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,5444.0,1.00%,F,T)



Quantitation Summary

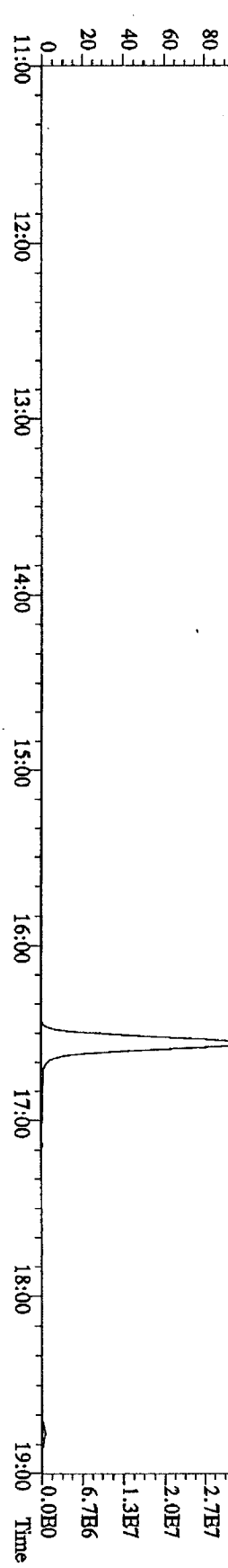
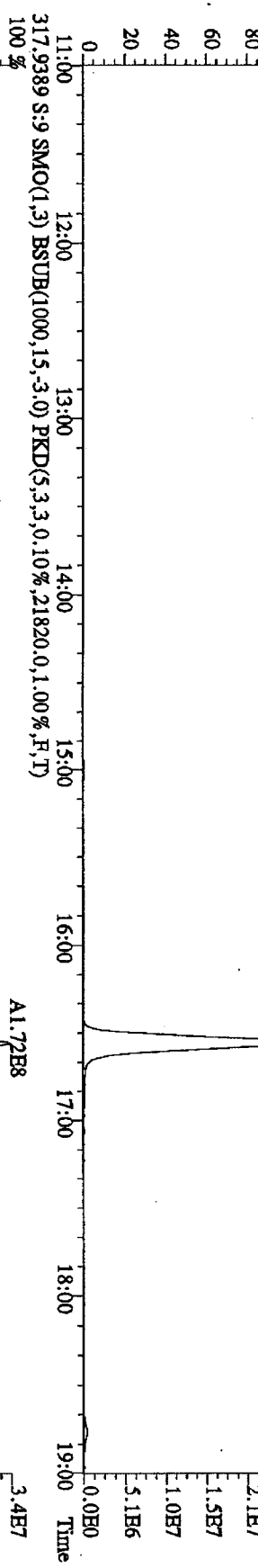
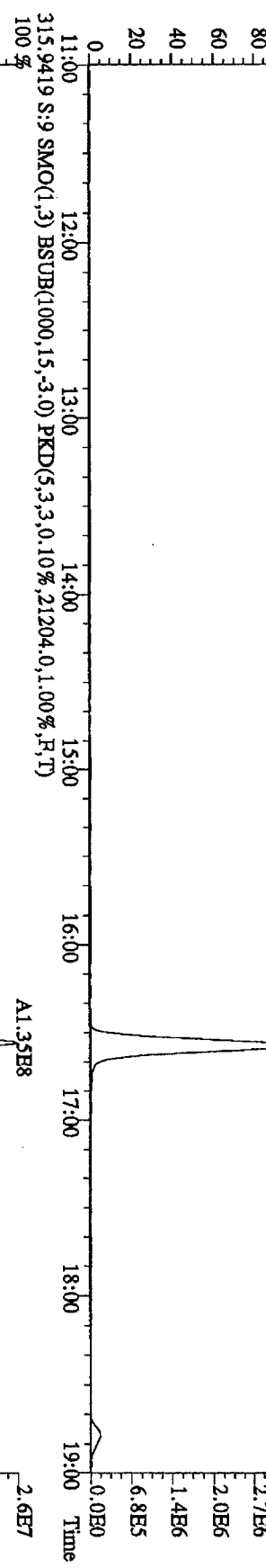
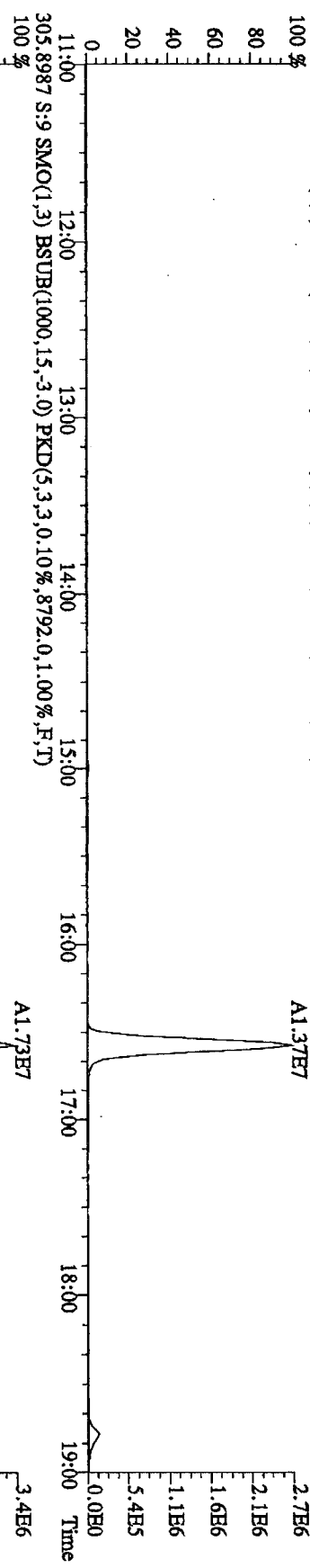
TestAmerica West Sacramento

Run text: ST1029G Sample text: ST1029G :2nd Source 10DXN340 AM
 Run #6 Filename: 29OC10B5D2 S: 9 I: 1 Results: 29OC10B5D2DB225
 Acquired: 30-OCT-10 04:54:59 Processed: 31-OCT-10 09:06:09
 Run: 29OC10B5D2 Analyte: DB225SS Cal: DB2251029105D2
 Factor 1: 20.000 Factor 2: 1.000 Sample size: 1.000000

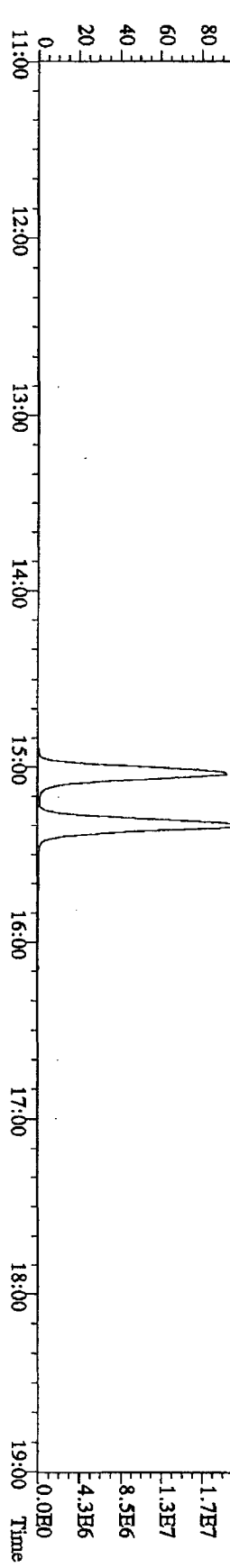
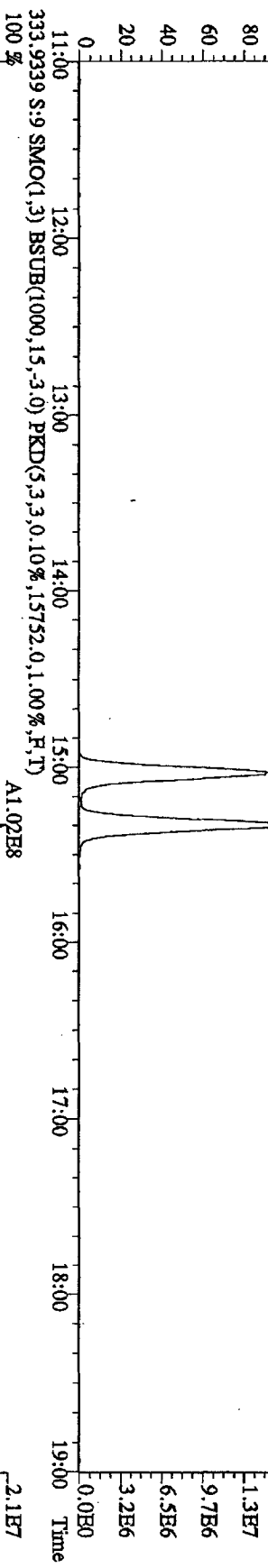
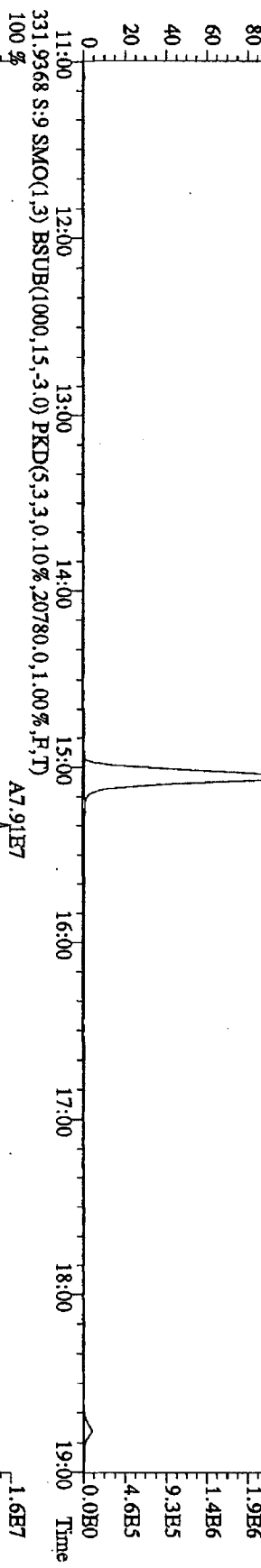
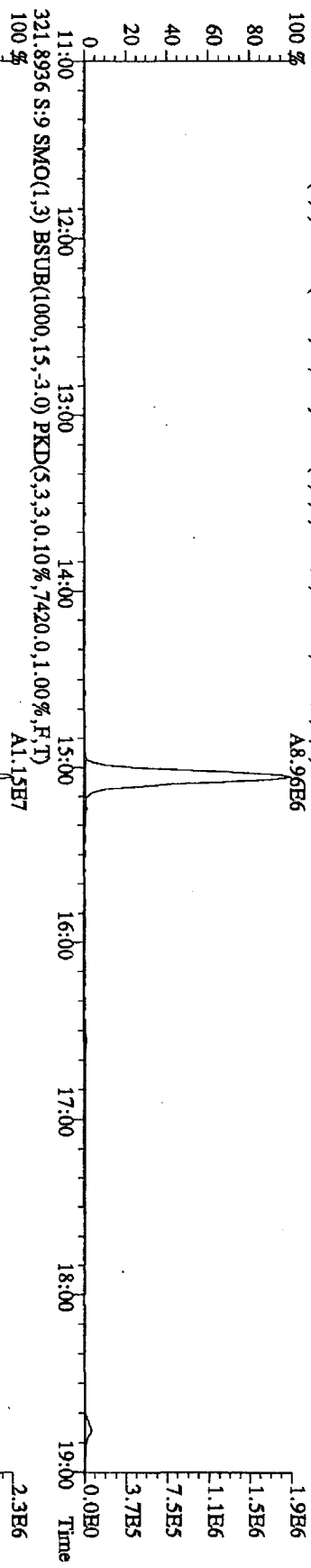
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	181399200	0.77 y	15:20	-	97.67	-	-	n
13C-2,3,7,8-TCDF	306940000	0.78 y	16:34	1.64	103.42	0.21	103.4	n
2,3,7,8-TCDF	30986600	0.79 y	16:35	1.06	9.53	0.07	95% -	n
13C-2,3,7,8-TCDD	171114500	0.77 y	15:02	0.96	98.56	0.31	98.6	n
2,3,7,8-TCDD	20436040	0.78 y	15:03	1.24	9.64	0.10	96% -	n
37Cl-2,3,7,8-TCDD	48108600	1.00 y	15:03	1.47	18.03	0.11	90.2	n

R# 11/11/10

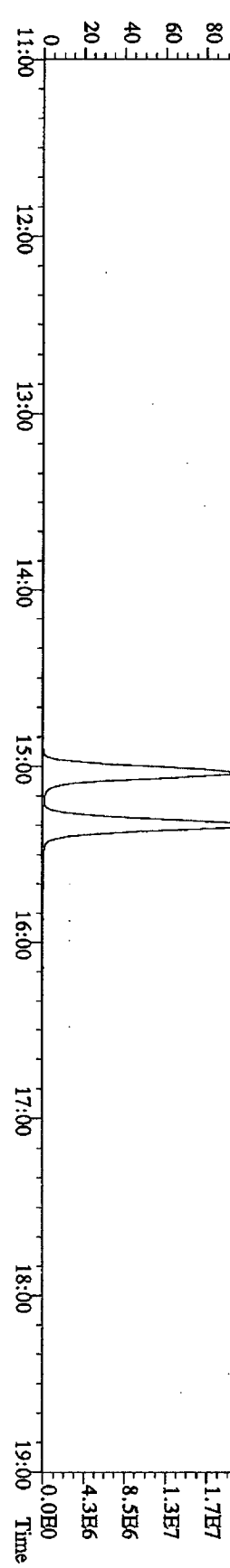
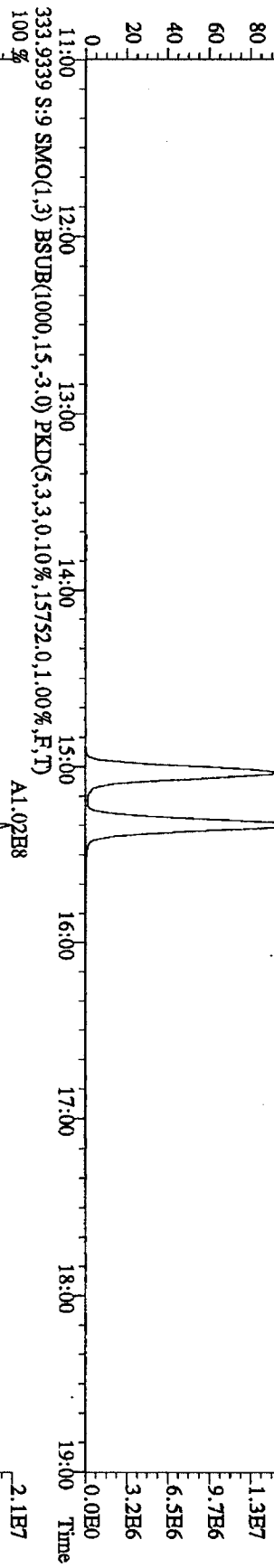
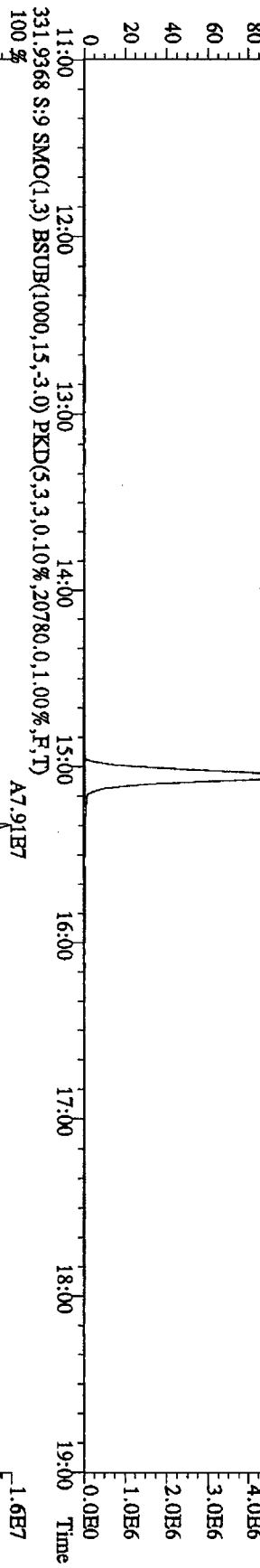
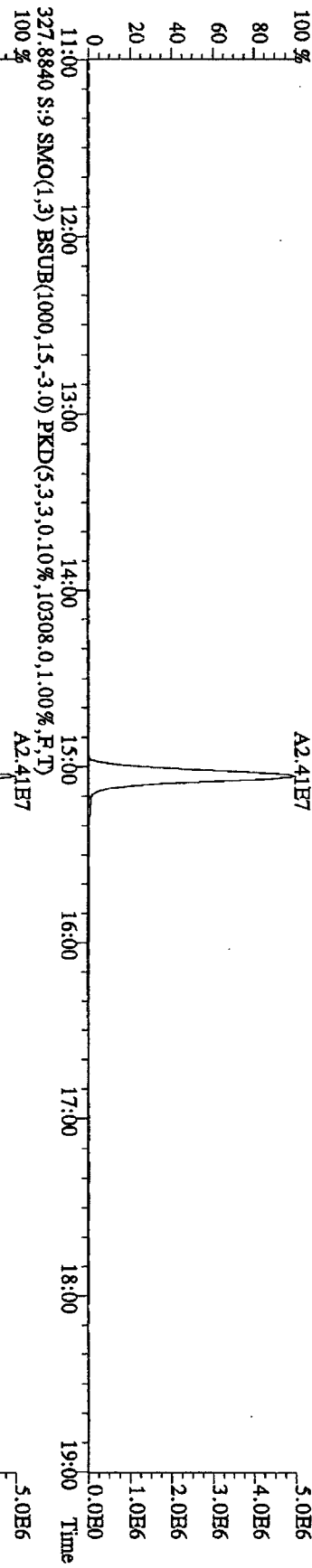
File:29OCT10B5D2 #1-1242 Acq:30-OCT-2010 04:54:59 GC HI + Voltage SIR 70SE
 Sample#9 Text:ST1029G :2nd Source 10DXN340 AM Exp:DB22RES
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6012.0,1.00%,F,T)
 100 %



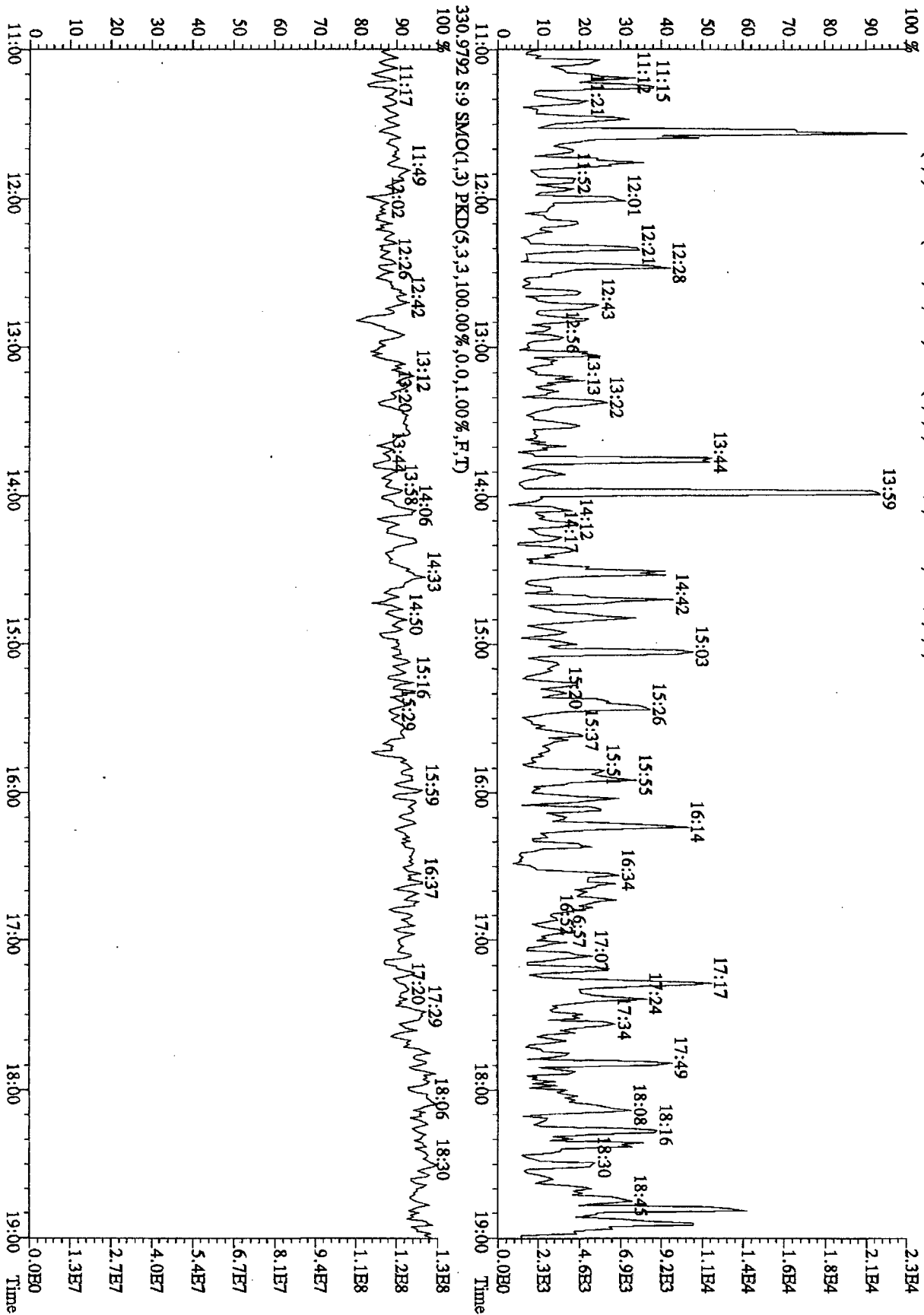
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 04:54:59 GC EI + Voltage SIR 70SB
 Sample#9 Text:ST1029G :2nd Source 10DXN340 AM Exp:DB25RHS
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7304,0,1,00%,F,T)
 100 %



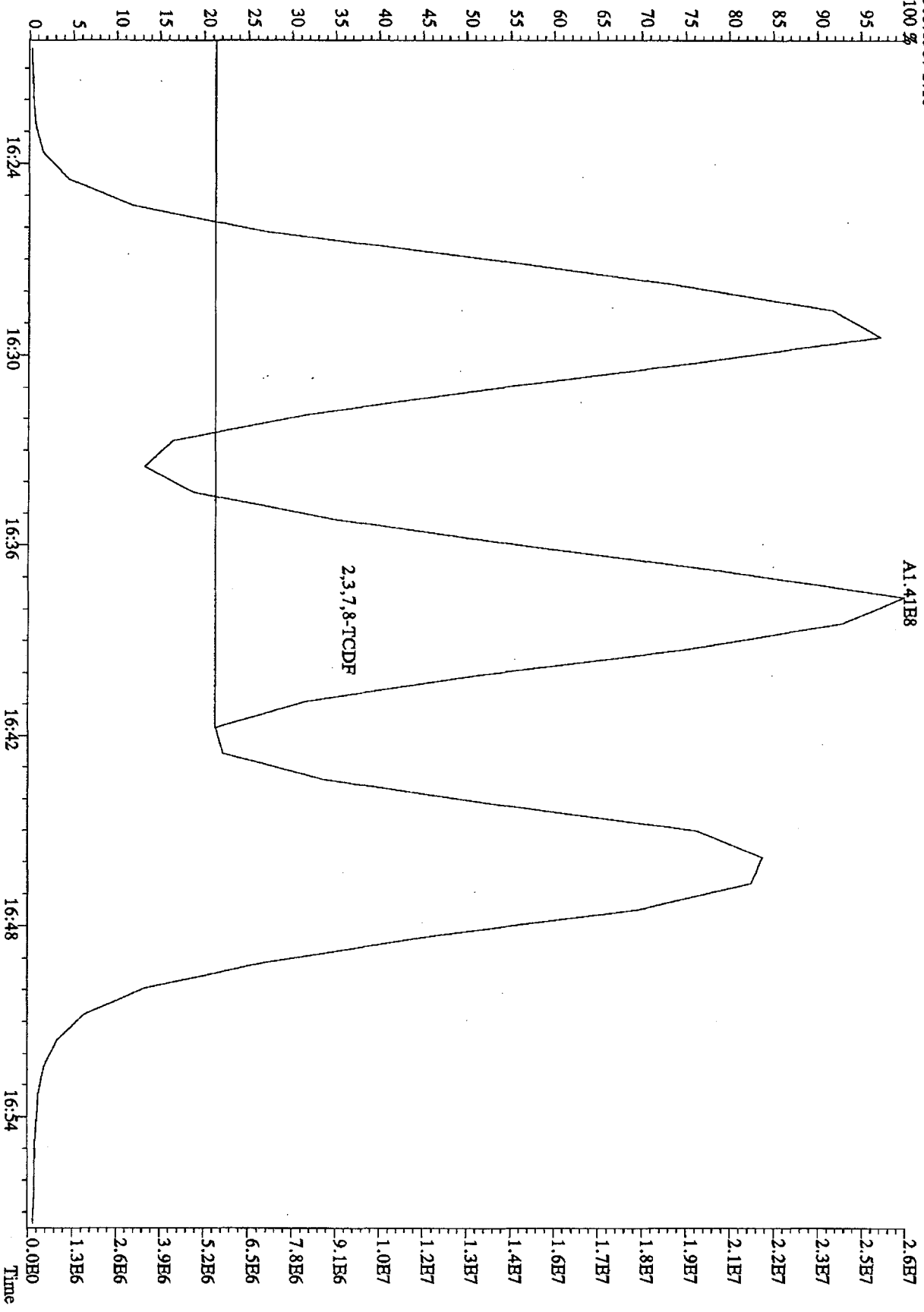
File: 290C10B5D2 #1-1242 Acq: 30-OCT-2010 04:34:59 GC: EI+ Voltage: SIR 70SE
 Sample#9 Text: ST1029G : 2nd Source 10DXN340 AM Exp: DB225RES
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10308,0,1,00%,F,T)
 100%



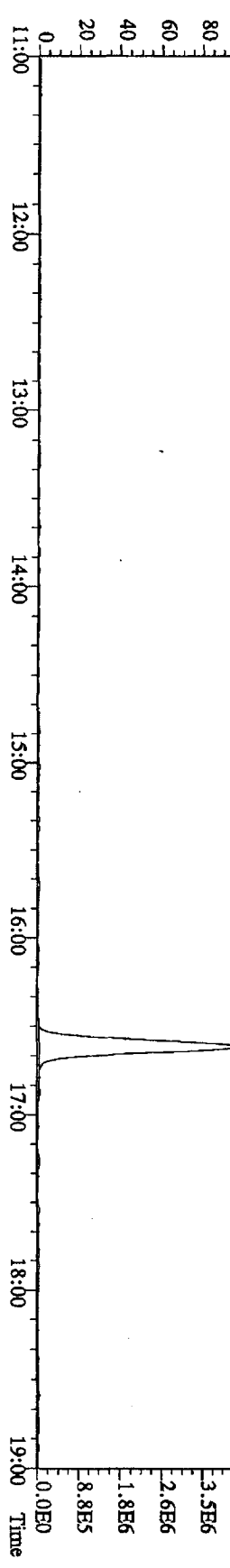
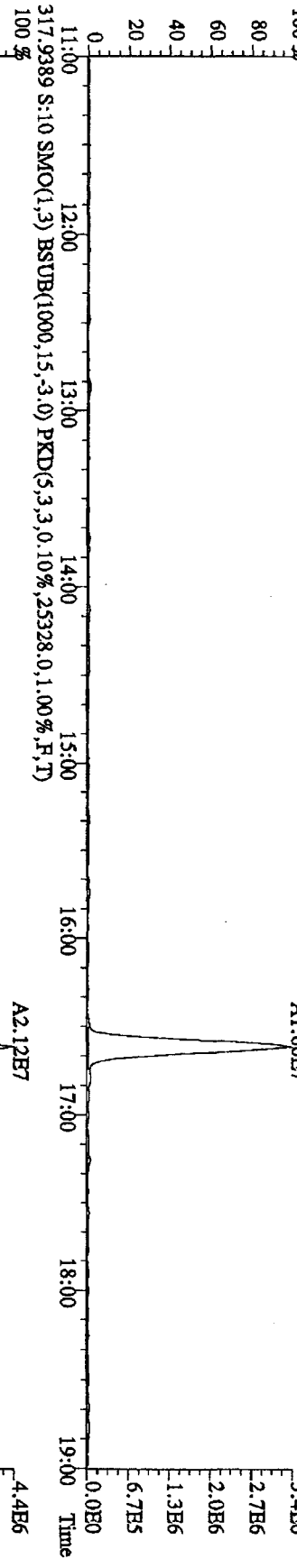
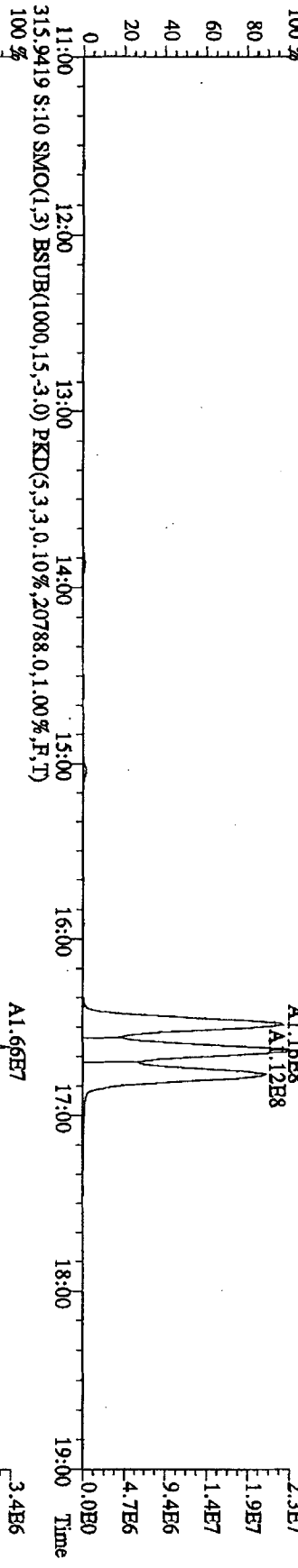
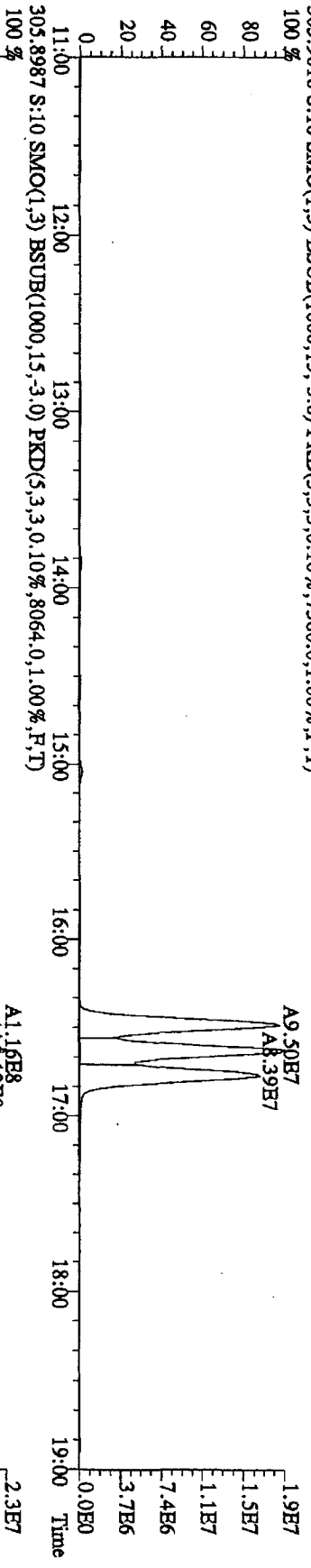
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 04:54:59 GC EI+ Voltage SIR 70SE
 Sample#9 Text:ST1029G :2nd Source 10DXN340 AM Exp:DB225RES
 375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



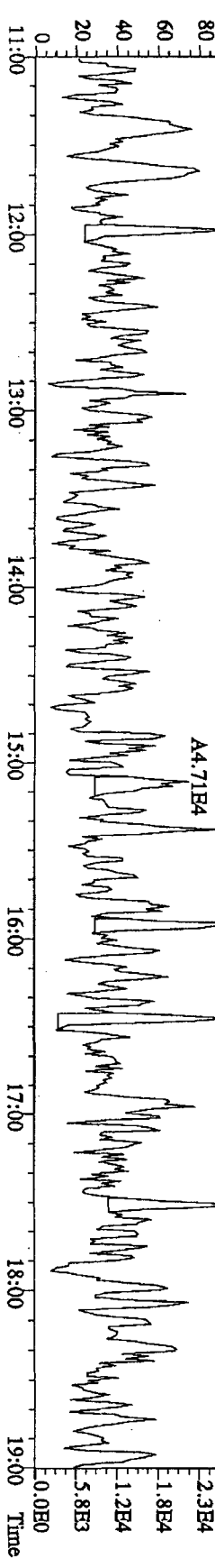
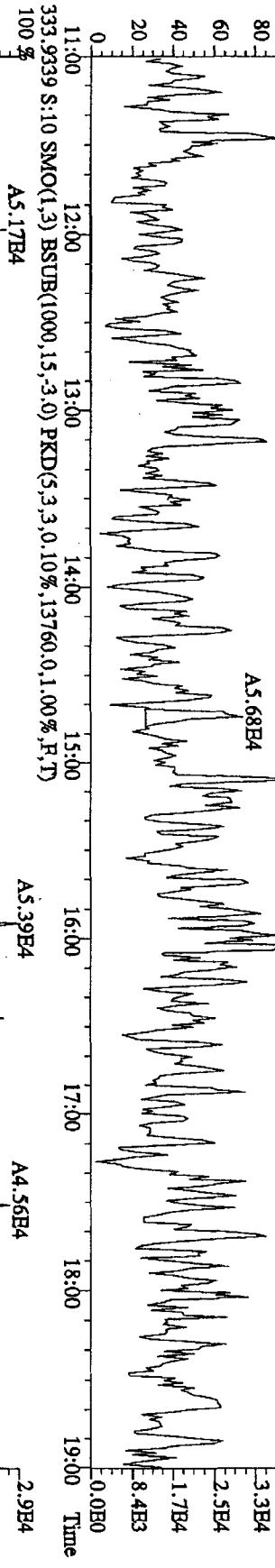
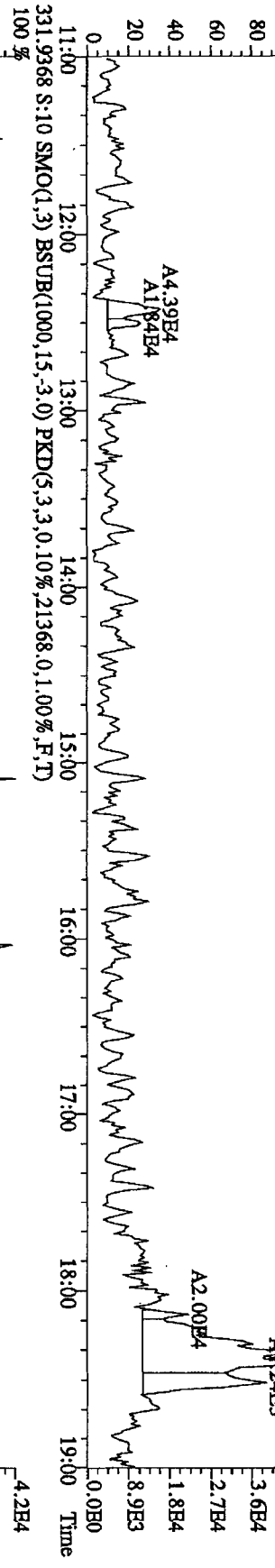
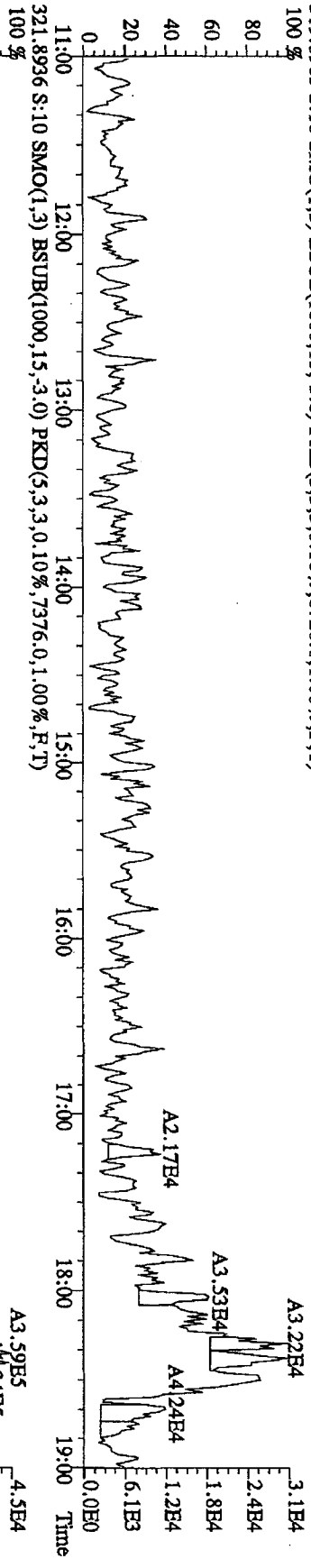
File: 29OCT10B5D2 #1-1242 Acq:30-OCT-2010 05:31:11 GC EI+ Voltage SIR 70SE
 Sample#10 Text:CP1029B :DB-225 CPSM 3732-06 AM Exp:DB225RES
 305.8987 S:10



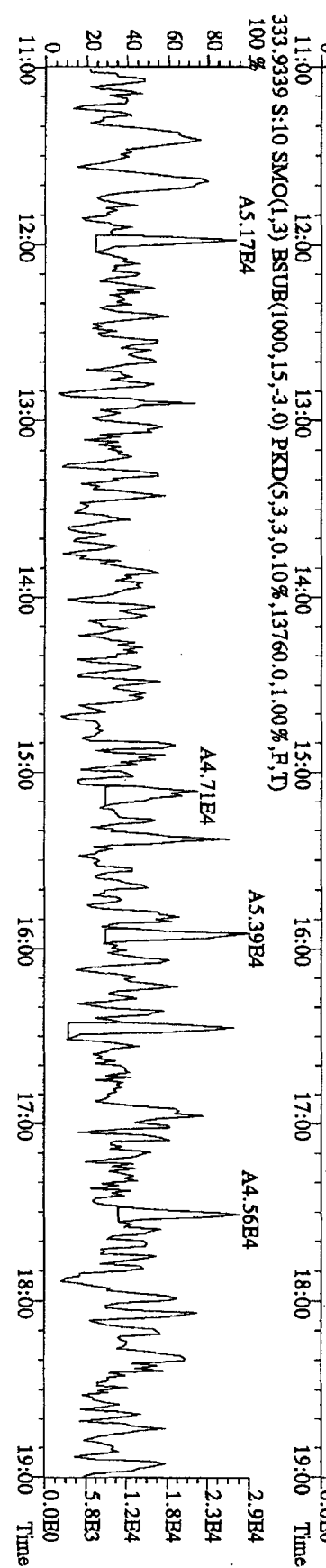
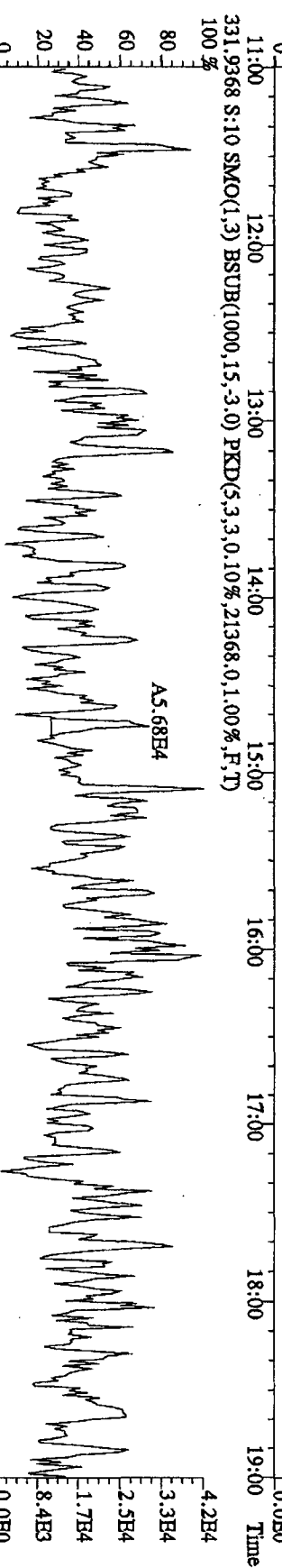
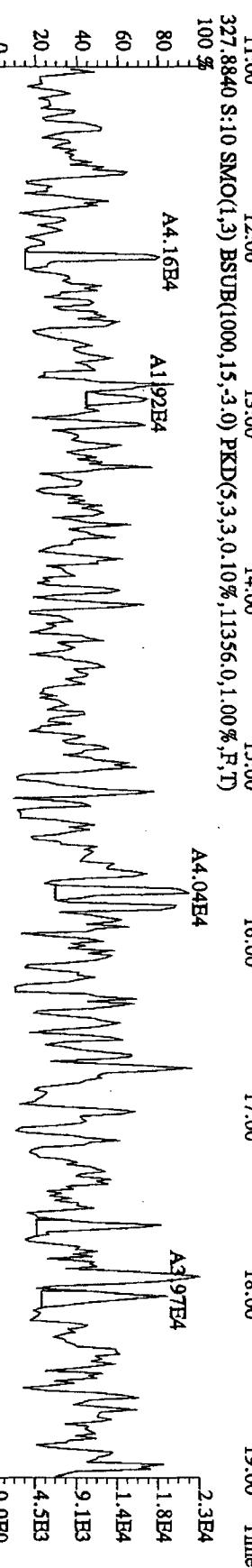
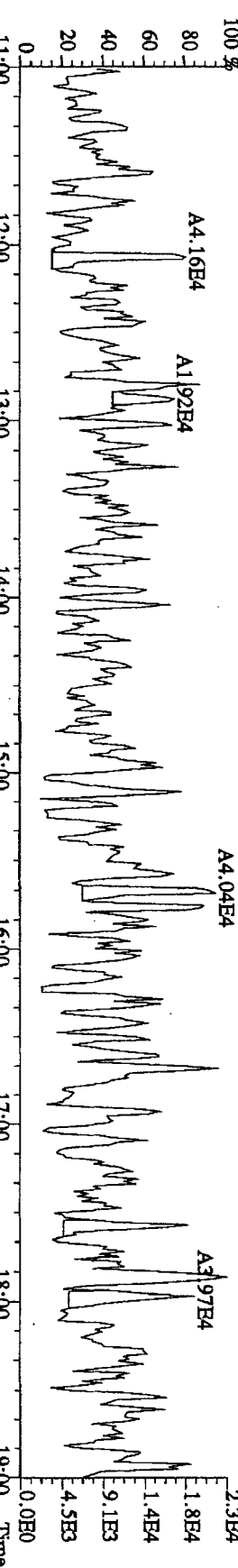
File:290C10B5D2 #1-1242 Acq:30-OCT-2010 05:31:11 GC EI+ Voltage SIR 70SE
 Sample#10 Text:CP1029B :DB-225 CFSM 3732-06 AM Exp:DB225RES
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7380.0,1.00%,F,T)



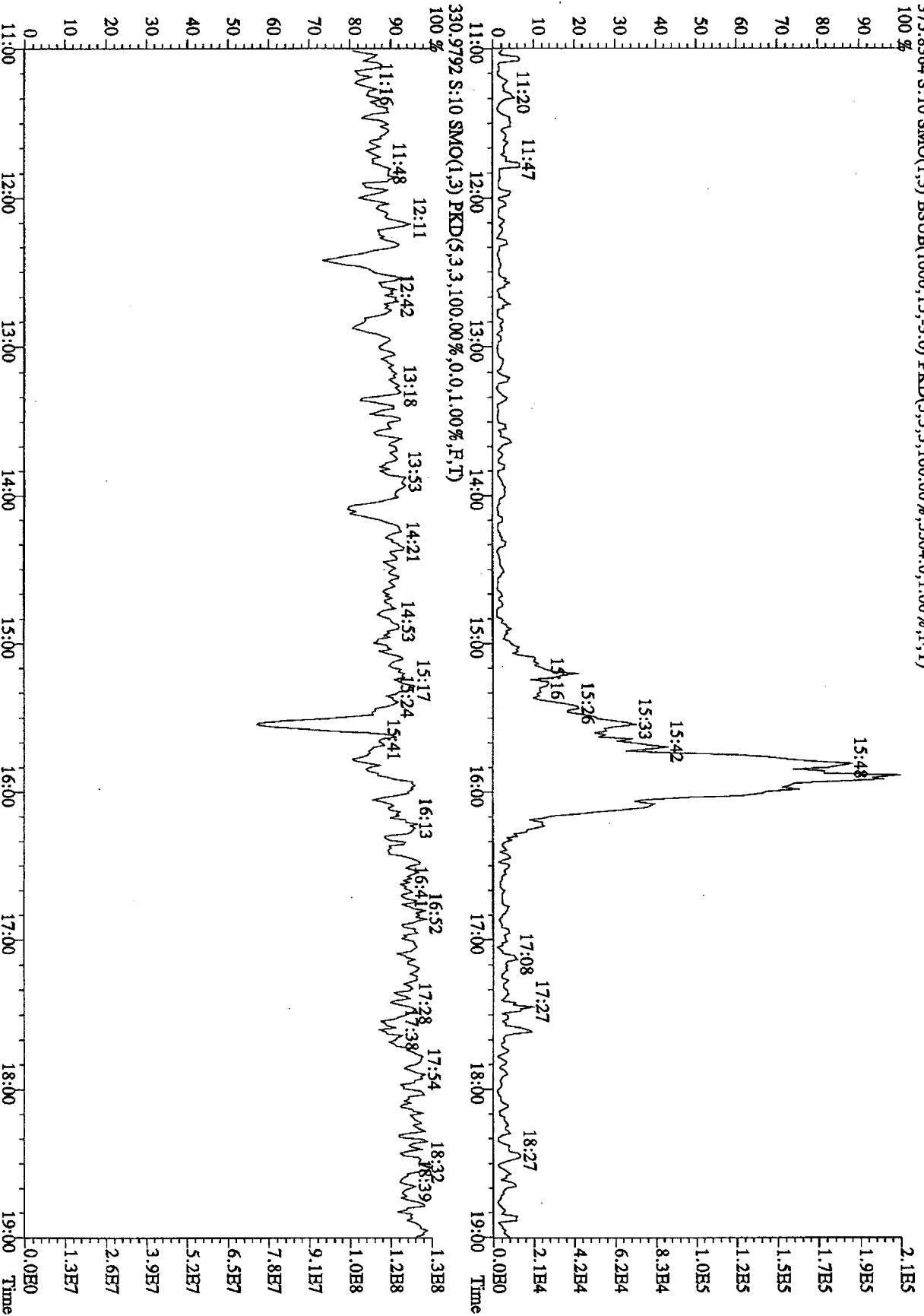
File:29OCT10B5D2 #1-1242 Acq:30-OCT-2010 05:31:11 GC HI+ Voltage SIR 70SE
 Sample#10 Text:CP1029B :DB-225 CPSM 3732-06 AM Exp:DB225RES
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6720.0,1.00%,F,T)



File:29OC10B5D2 #1-1242 Acq:30-OCT-2010 05:31:11 GC EI+ Voltage SIR 70SE
 Sample#10 Text:CP1029B :DB-225 CPSM 3732-06 AM Exp:DB225RES
 327.8840 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11356,0,1.00%,F,T)



File:290C10B5D2 #1-1242 Acq:30-OCT-2010 05:31:11 GC FI + Voltage SIR 70SE
 Sample#10 Text:CP1029B :DB-225 CFSM 3732-06 AM Exp:DB225RES
 375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,5504.0,1.00%,F,I)



Sample Extraction/Preparation Log
Copies and Checklists

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

Batch: 0299369
MS Run #: _____
Prep Date: 10/26/2010

Shared QC Batch: QAMC

Box # 98

Shares QC With: NA

Internal COC:	
Delivered to Inst.:	<u>J10/28/10</u>
Inst Receipt:	

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE, Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W

Soxhlet time on: 16:30 (10/19/10) Soxhlet time off: 8:40 (10/27/10)

Reagent	Supplier	Lot #
Toluene	Baker	<u>J2670</u>
Hexane	Baker	<u>J29E20</u>
H2SO4	Baker	<u>NA</u>
20% DCM:Hexane	NA	<u>3630-79F</u>
65% DCM:Hexane	NA	<u>3630-81B</u>
1:1 DCM:Cyclohexane	NA	<u>NA</u>
75:20:5 DCM:Hexane:Benzene	NA	<u>NA</u>
Silica Gel	<u>NA</u>	<u>4022-86F</u>
Acid Alumina	<u>MP-810</u>	<u>79</u>
5% Carbon:Silica Gel	<u>NA</u>	<u>NA</u>

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				
G0J260000 - 369	B	L84XJ1AA	11/19/2010	1.0	✓		12/10/2010			5
G0J260000 - 369	C	L84XJ1AC	11/19/2010	1.0	✓		12/10/2010			7
G0J260000 - 369	L	L84XJ1AD	11/19/2010	1.0	✓		12/10/2010			6
G0J260480 - 3		L84M11AA	11/19/2010	1.0	✓		12/10/2010			5
G0J260480 - 6		L84M71AA	11/19/2010	1.0	✓		12/10/2010			6
G0J260480 - 7		L84NE1AA	11/20/2010	1.0	✓	<u>10/28/10</u>	12/10/2010	<u>10/28/10</u>		7
G0J260480 - 9		L84NP1AA	11/20/2010	1.0	✓		12/10/2010			5
G0J260480 - 13		L84N61AA	11/21/2010	1.0	✓		12/10/2010			7
G0J260480 - 17		L84Q31AA	11/21/2010	1.0	✓		12/10/2010			6
G0J260480 - 21		L84Q71AA	11/22/2010	1.0	✓		12/10/2010			5
G0J260480 - 24		L84RM1AA	11/22/2010	1.0	✓		12/10/2010			7

Extraction Table

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples 2.0mL/10 DXXN 463 / 8290/1613 Daily IS	12/16/10	ECF	JZ	10/26/10
Spike Mix LCS/LCSD/MS/MS 8290/1613 Daily NS	5/26/11	ECF	JZ	10/26/10
Pre-Spike Standard MB/LCS/LCSD 8290/1613 Daily NS	7/19/11	ECF	JZ	10/26/10
Recovery Standard All Samples 20.0µL 10DXXN 225	6/11/11	JZ	JZ	10/28/10
Soxhlet Extraction Analyst/Date ECF 10/26/10	1/2 Split/Archive Analyst/Date JZ/Cmc 10/28/10	Option C Analyst/Date —	IFB Analyst/Date JZ/Cmc 10/28/10	D2 Analyst/Date —

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/28/10
Time: 18:10:54

LEV	LEV	LEV	LEV
1	1	2	2
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 AnalyticalGroup
Bench Sheet Copied per COC

Extractionist: 403162 erica X. Larson

Concentrationist: 006625 Elizabeth Nguyen

* QC BATCH: 0299369 *
* ***** *

PREP DATE: 10/26/10 15:00
COMP DATE: 10/28/10 15:00

Reviewer/Date: NGUYENE / 10/28/10
Dioxins/Furans, HRGC/HRMS (TO-9)
SOXHLET (NONE, Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/ WT/VOL	PH'S INIT	ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
11/19/10	11/02/10	G0J260480-003 L84M1-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/19/10	11/02/10	G0J260480-006 L84M7-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/20/10	11/02/10	G0J260480-007 L84NE-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/20/10	11/02/10	G0J260480-009 L84NP-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/21/10	11/02/10	G0J260480-013 L84N6-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/21/10	11/02/10	G0J260480-017 L84Q3-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS
11/22/10	11/02/10	G0J260480-021 L84Q7-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	NA	700.0	700.0	.0	2.0ML/10DXN463/8290 IS

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/28/10
Time: 18:10:54

* QC BATCH: 0299369 *
* PREP DATE: 10/26/10 15:00
* COMP DATE: 10/28/10 15:00

EXTR EXPR	ANL DUE	LOT#_MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/ FIN	WT/ VOL	PH#S	INIT	ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE VOL	SOLVENTS SURROGATE ID
11/22/10	0/00/00	11/02/10 L84RM-1-AA	R	11	IK	AIR	1.05sample 20.00uL	NA	NA	NA	NA	NA	700.0	.0	2.0ML/10DXN463/8290 IS
COMMENTS: G0J260480-024															
11/19/10	0/00/00	0/00/00 L84XJ-1-AAB		11	IK	AIR	1.05sample 20.00uL	NA	NA	NA	NA	NA	700.0	.0	200UL/10DXN429/TO-9 SURR 2.0ML/10DXN463/8290 IS
COMMENTS: G0J260000-369															
11/19/10	0/00/00	0/00/00 L84XJ-1-ACC		11	IK	AIR	1.05sample 20.00uL	NA	NA	NA	NA	NA	700.0	.0	100UL/10DXN148/8290 NS 2.0ML/10DXN463/8290 IS
COMMENTS: G0J260000-369															
11/19/10	0/00/00	0/00/00 L84XJ-1-ADL	R	11	IK	AIR	1.05sample 20.00uL	NA	NA	NA	NA	NA	700.0	.0	100UL/10DXN148/8290 NS 2.0ML/10DXN463/8290 IS
COMMENTS: G0J260000-369															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD NUMBER OF WORK ORDERS IN BATCH: 11

Preparation Data Review Checklist

Prep Batch(es) 0299369

Test: TO-9

Prep Date: 10/26/10

Holding Times: 11/19/10-11/22/10 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: JZ

Date: 10/26/10

2nd Level Reviewer: [Signature]

Date: 10/28/10

Comments:

**Data Checklist
HRGCMS/LRGCMS Analyses**

THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0299369 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

	<u>DB-5</u>	<u>DB-225</u>
Data Analyst:	<u>OS</u>	<u>OS</u>
Date initiated:	<u>11-8-10</u>	<u>11-8-10</u>
Reviewer:	<u>M. [Signature]</u>	
Date reviewed:	<u>11/10/2010</u>	

QA/QC verification:	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> DB-225 (High Res Only)
-Daily standard package(s) present?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Method Blank present?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>
-LCS/DCS copy present and meets native recovery criteria?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>
-Internal standard recoveries within limits?*	<u>⊗</u>	<u>Ⓛ ✓</u>	<u>/</u>	<u>✓</u>
-Ion ratios within + 15% of theoretical values?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Other QC (Dup,MS,SD) within specs?*	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Sample Analysis:	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> DB-225 (High Res Only)
-Correct sample aliquot used?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-All raw data present?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Standard target DL's used? If RL's are used specify: _____	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-DL's below TD/LCL (please circle)?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-All positives reported at levels greater than method blank DL's?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Correct RRF's used for method?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Internal standard amounts correct for method?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Target analytes are not saturated?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Dilution/splitting of extract taken into account?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Have dilution calculations been verified?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Has a manual calculation for the sequence(s) been verified?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Are retention times (RT) correct?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Manual integrations checked?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>

Comments: (Use other side if necessary)
 ⊗ see NCM # 07-0116132

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614:	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

Appendix

Includes (as applicable):

retention time windows

MDL summaries

calculation explanation sheets

standard raw data

statistical summary

STANDARDS QC FORM

Box #: _____

QC Name: AIR NS QC (10DXN148)

Method(s) Used: 1613

QC Description: QC NS CONCENTRATION

I.S. Used (ID/conc.): 1.0ml 10DXN463

N.S. Used (ID/conc.): 50UL 10DXN148

C.R.S./Surr. Used (ID/conc.): 0

R.S. Used (ID/conc.): 20UL 10DXN225

Prepared by: 

Date Prepared: 11/4/10

QC Needed by: ASAP

Comments: _____

QC Status (please check approved or disapproved):

Data Analyst: _____

Date: _____

Approved: _____

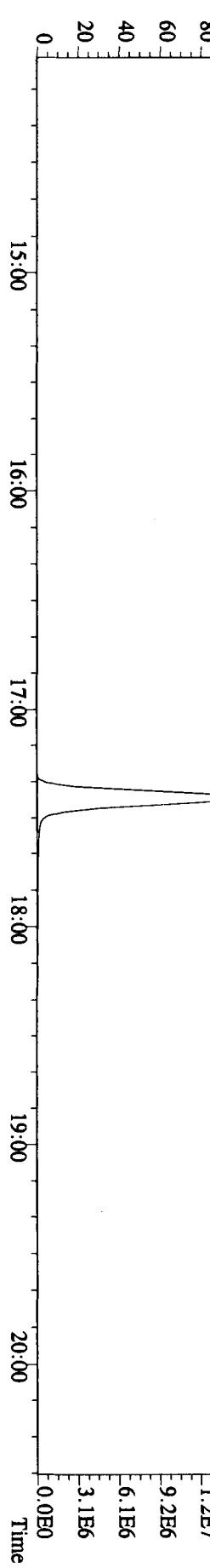
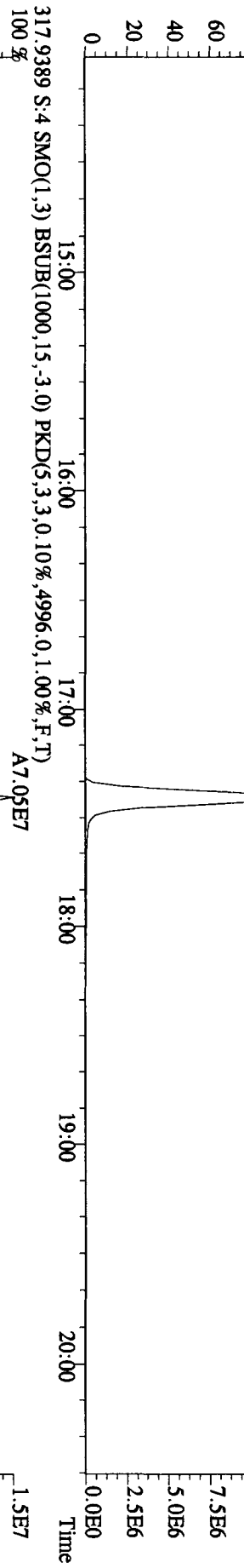
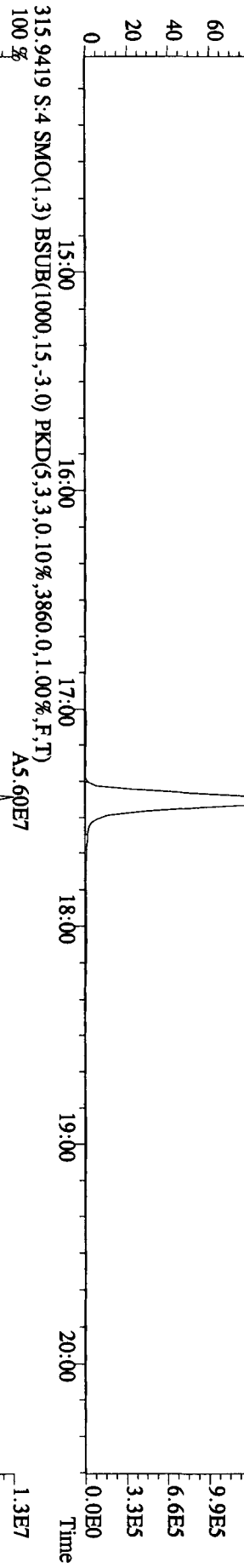
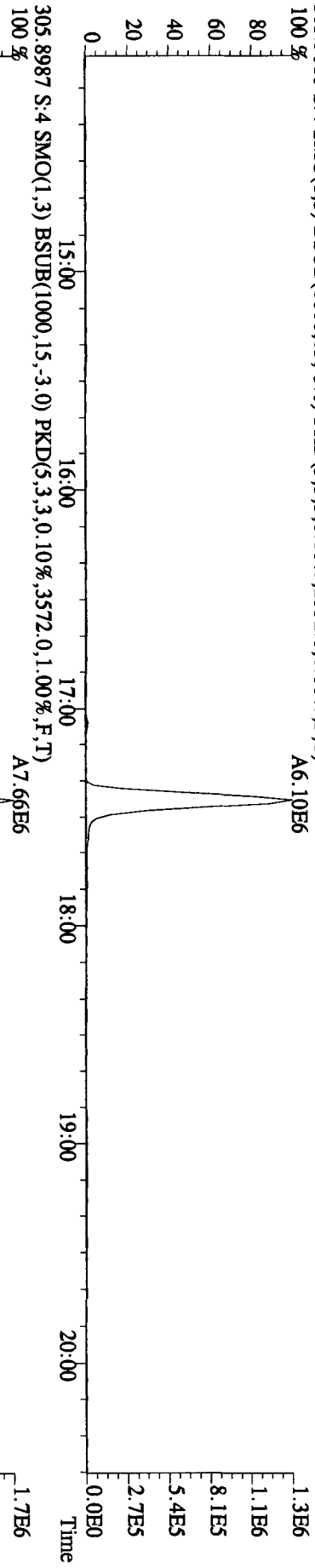
Disapproved: _____

Run text: Air NS QC Sample text: Air NS QC :10DXN148
 Run #8 Filename: 04NO101D5 S: 4 I: 1 Results: 04NO101D5TO9
 Acquired: 4-NOV-10 12:07:45 Processed: 4-NOV-10 14:33:30
 Run: 04NO101D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000Samp

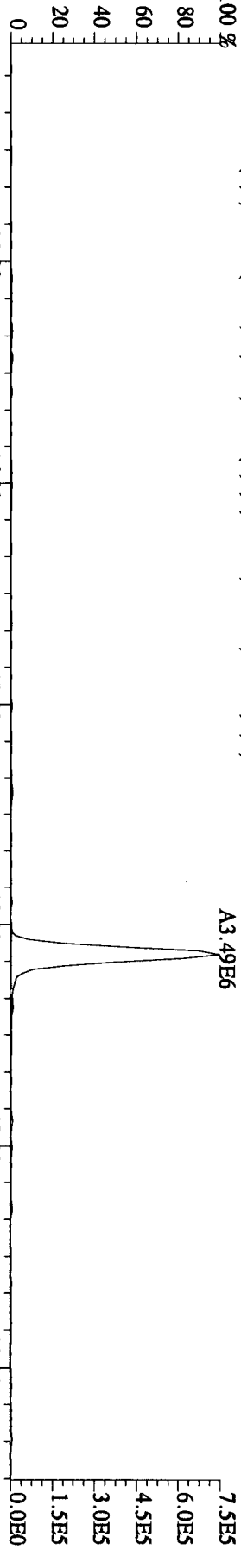
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	84677000	0.80 y	17:55	-	49.52	-	-	n
13C-2,3,7,8-TCDF	126513500	0.79 y	17:24	1.57	1897.84	1.76	94.9	n
2,3,7,8-TCDF	13761970	0.80 y	17:25	0.88	247.93	1.45	-	n
Total TCDF	13851181	0.44 n	14:57	0.88	249.54	1.45	-	n
13C-2,3,7,8-TCDD	73377600	0.81 y	18:07	0.99	1751.83	3.35	87.6	n
2,3,7,8-TCDD	7938180	0.79 y	18:08	0.94	230.14	2.43	-	n
Total TCDD	8005645	0.79 y	18:08	0.94	232.09	2.43	-	n
37Cl-2,3,7,8-TCDD	130235	1.00 y	18:04	1.18	3.02	0.47	0.4	n
13C-1,2,3,7,8-PeCDF	90168500	1.67 y	22:27	1.15	1844.84	2.88	92.2	n
1,2,3,7,8-PeCDF	58922800	1.62 y	22:29	1.03	1269.88	3.12	-	n
2,3,4,7,8-PeCDF	56198000	1.69 y	23:48	0.95	1316.30	3.39	-	n
Total F2 PeCDF	116804649	1.25 n	21:09	0.99	2623.97	3.25	-	n
Total F1 PeCDF	129543	0.11 n	14:33	0.99	2.91	1.32	-	n
13C-1,2,3,7,8-PeCDD	51308900	1.65 y	24:29	0.67	1816.87	2.40	90.8	n
1,2,3,7,8-PeCDD	31365600	1.70 y	24:30	0.96	1272.23	3.87	-	n
Total PeCDD	31593657	5.85 n	24:03	0.96	1281.48	3.87	-	n
13C-1,2,3,7,8,9-HxCDD	101438400	1.30 y	30:49	-	75.45	-	-	n
13C-1,2,3,4,7,8-HxCDF	88292400	0.51 y	29:31	1.15	1516.03	5.05	75.8	n
1,2,3,4,7,8-HxCDF	73583400	1.33 y	29:32	1.22	1367.32	0.94	-	n
1,2,3,6,7,8-HxCDF	82577100	1.24 y	29:41	1.41	1329.32	0.81	-	n
2,3,4,6,7,8-HxCDF	85204100	1.29 y	30:18	1.23	1566.46	0.93	-	n
1,2,3,7,8,9-HxCDF	86502000	1.32 y	31:02	1.08	1807.99	1.06	-	n
Total HxCDF	327866600	1.33 y	29:32	1.24	6071.09	0.93	-	n
13C-1,2,3,6,7,8-HxCDD	79936500	1.33 y	30:31	0.96	1643.70	0.46	82.2	n
1,2,3,4,7,8-HxCDD	45094700	1.29 y	30:27	0.89	1271.60	1.37	-	n
1,2,3,6,7,8-HxCDD	55518500	1.34 y	30:32	1.05	1324.30	1.16	-	n
1,2,3,7,8,9-HxCDD	60458800	1.30 y	30:50	1.00	1505.38	1.21	-	n
Total HxCDD	161222092	1.29 y	30:27	0.98	4105.11	1.24	-	n
13C-1,2,3,4,6,7,8-HpCDF	78100400	0.43 y	32:26	0.98	1564.39	9.12	78.2	n
1,2,3,4,6,7,8-HpCDF	68670600	1.07 y	32:27	1.33	1320.77	4.69	-	n
1,2,3,4,7,8,9-HpCDF	59522500	1.08 y	33:40	1.12	1362.13	5.58	-	n
Total HpCDF	128193100	1.07 y	32:27	1.23	2682.90	5.09	-	n
13C-1,2,3,4,6,7,8-HpCDD	63238000	1.13 y	33:19	0.82	1512.39	5.54	75.6	n
1,2,3,4,6,7,8-HpCDD	41012100	1.06 y	33:19	1.05	1237.51	4.86	-	n
Total HpCDD	41054721	0.84 n	32:43	1.05	1238.80	4.86	-	n
13C-OCDD	64227300	0.88 y	35:56	0.54	2337.22	5.30	58.4	n

OCDF	69557600	0.91	y	36:03	1.58	2741.95	5.91	-	n
OCDD	45971500	0.91	y	35:57	1.13	2526.69	5.65	-	n

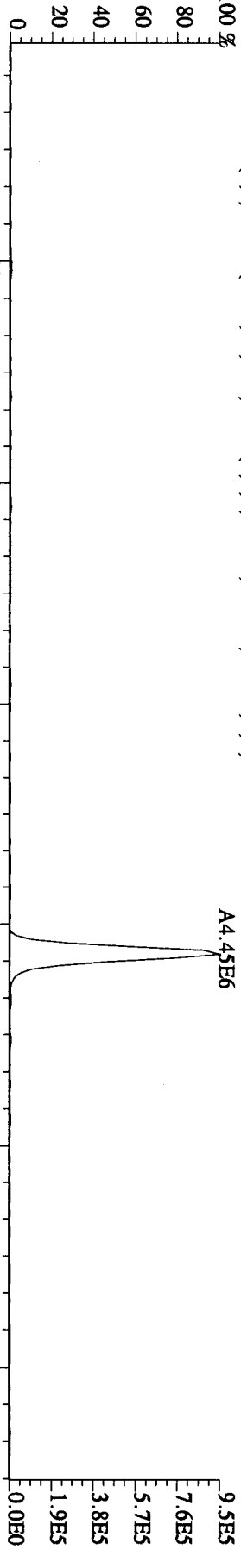
File: 04NO101D5 #1-382 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINES
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2352.0,1.00%,F,T)
 100%



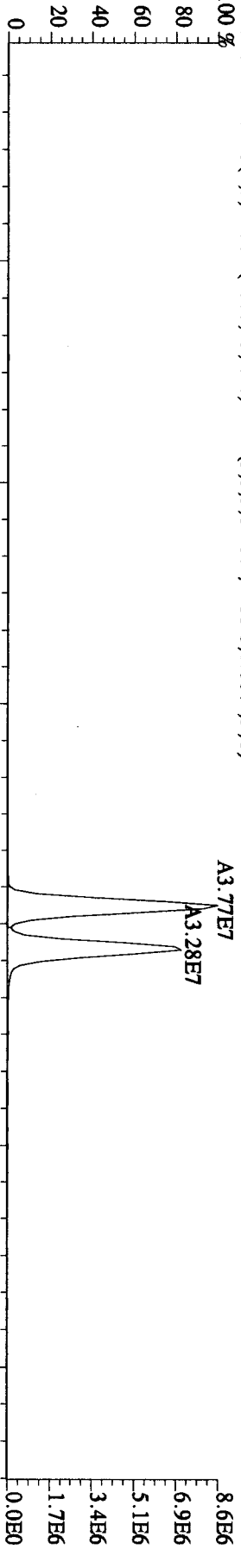
File: 04NO101D5 #1-382 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.3328,0,1,00%,F,T)
 100 %



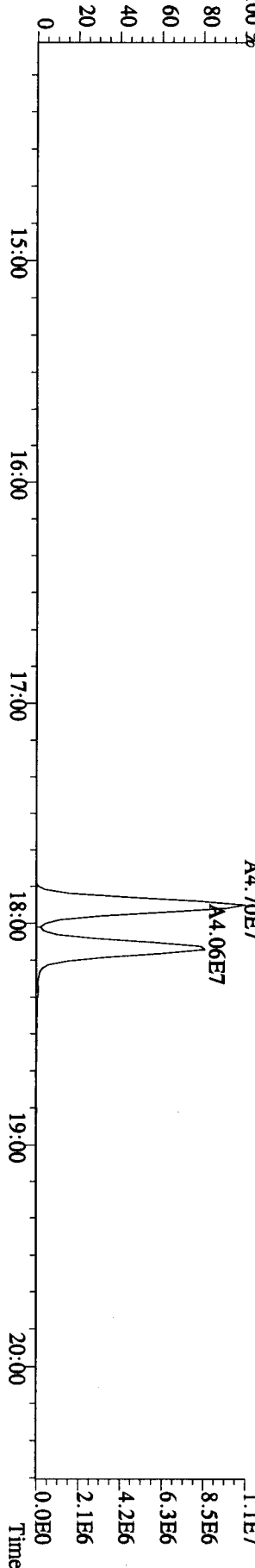
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.2632,0,1,00%,F,T)
 100 %



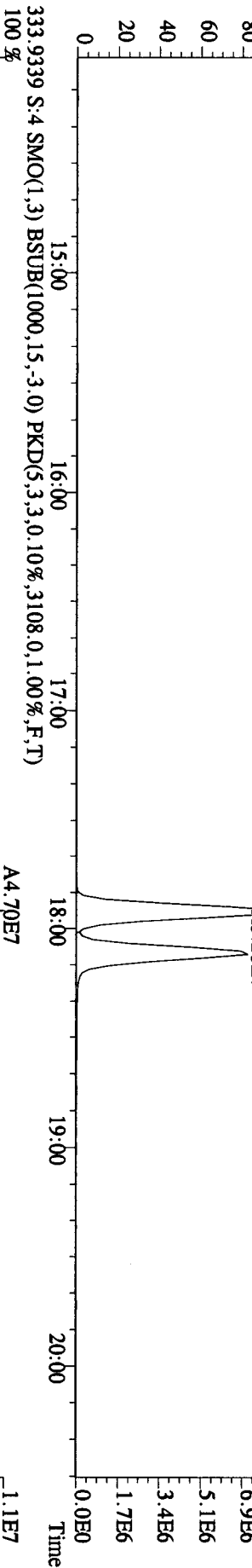
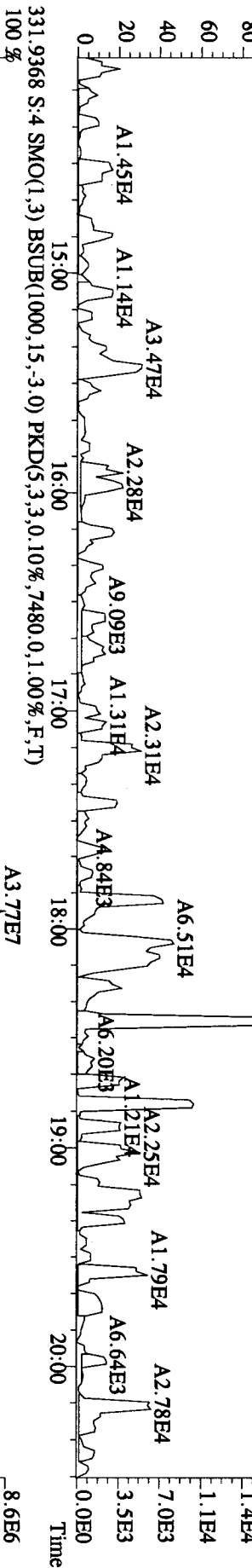
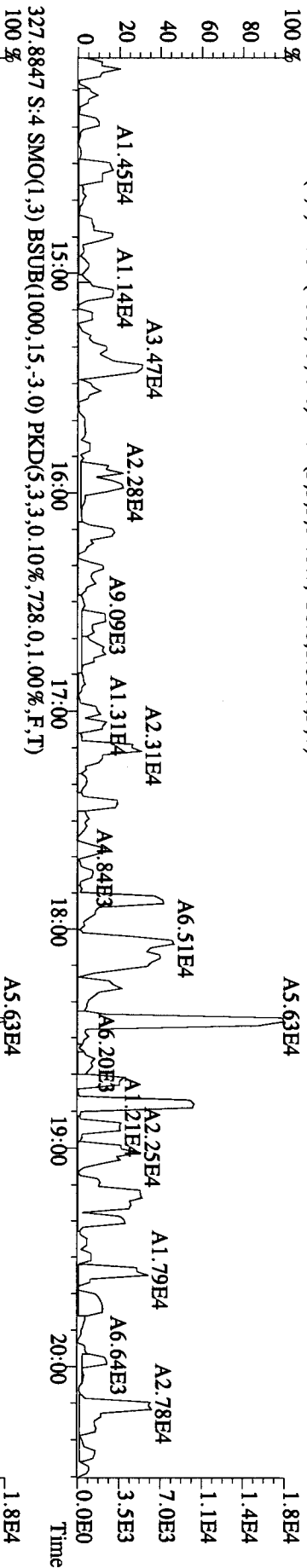
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.7480,0,1,00%,F,T)
 100 %



333.9339 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.3108,0,1,00%,F,T)
 100 %



File:04NO101D5 #1-382 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,728.0,1.00%,F,T)
 100 %



File:04NOV101D5 #1-423 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE

Sample#4 Text: Air NS QC : 10DXN148

Exp: DIOXINES

339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4484.0,1.00%,F,T)

6.2E6

4.9E6

3.7E6

2.5E6

1.2E6

0.0E0

0.0E0

341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3904.0,1.00%,F,T)

3.8E6

3.1E6

2.3E6

1.5E6

7.6E5

0.0E0

0.0E0

351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5516.0,1.00%,F,T)

9.7E6

7.8E6

5.8E6

3.9E6

1.9E6

0.0E0

0.0E0

353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5092.0,1.00%,F,T)

6.0E6

4.8E6

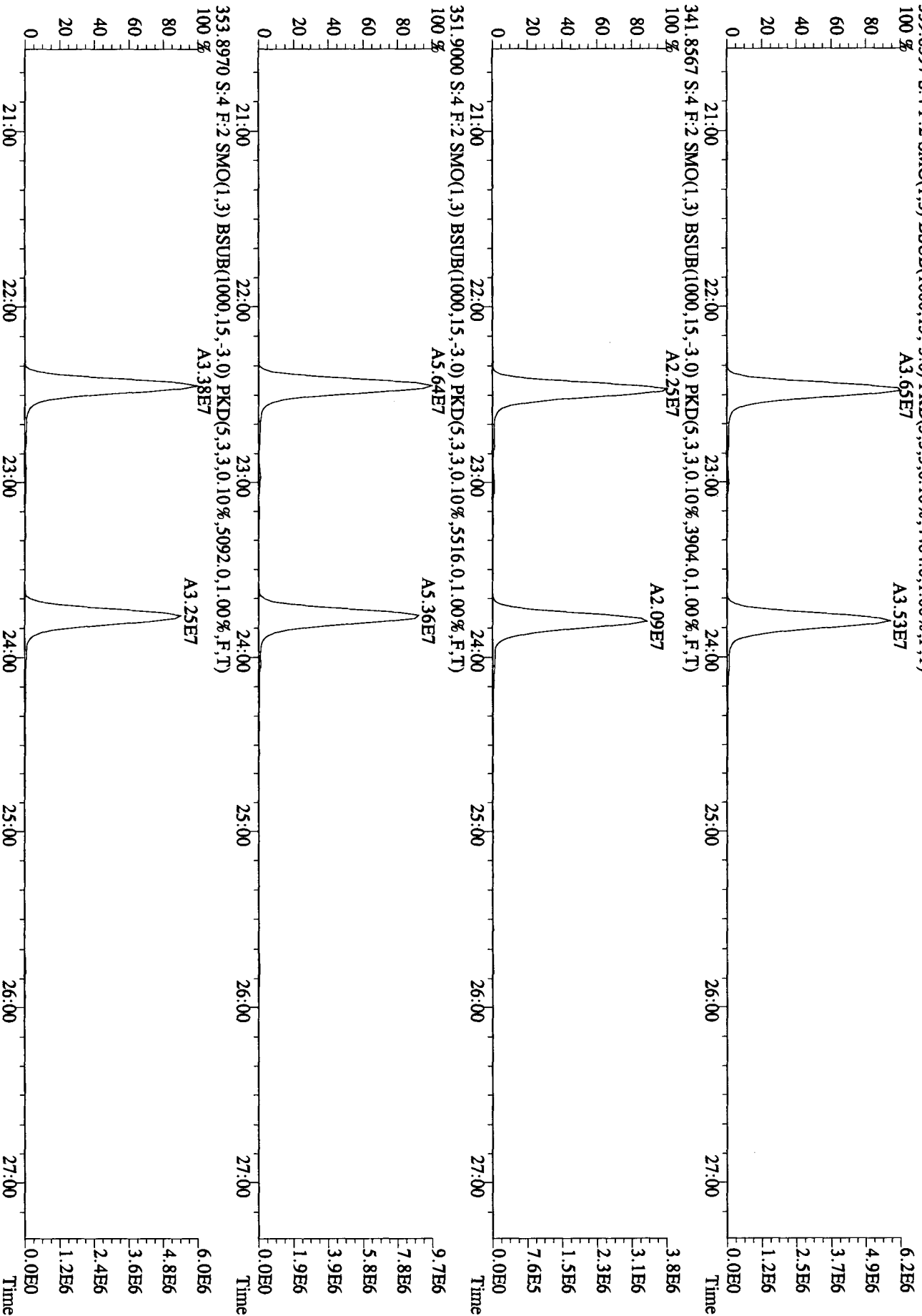
3.6E6

2.4E6

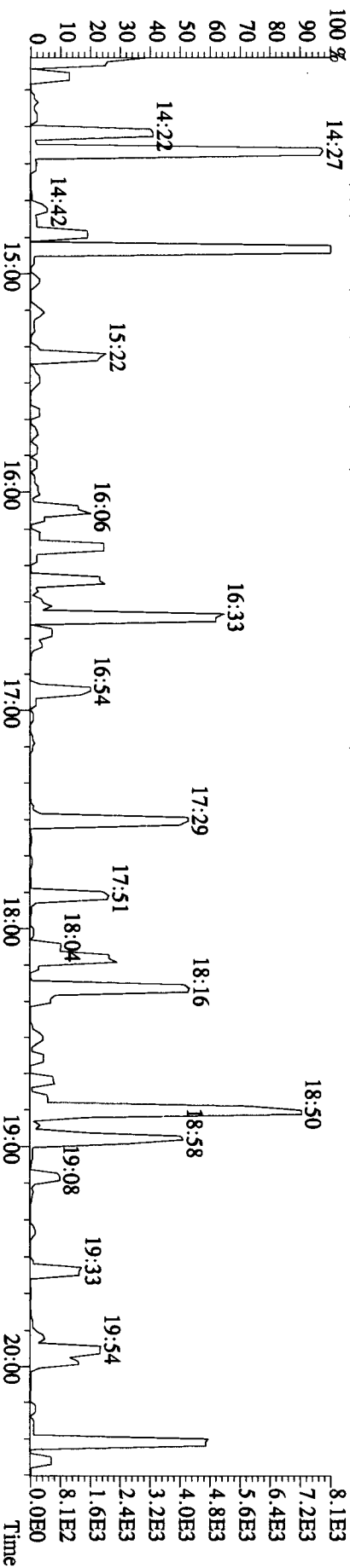
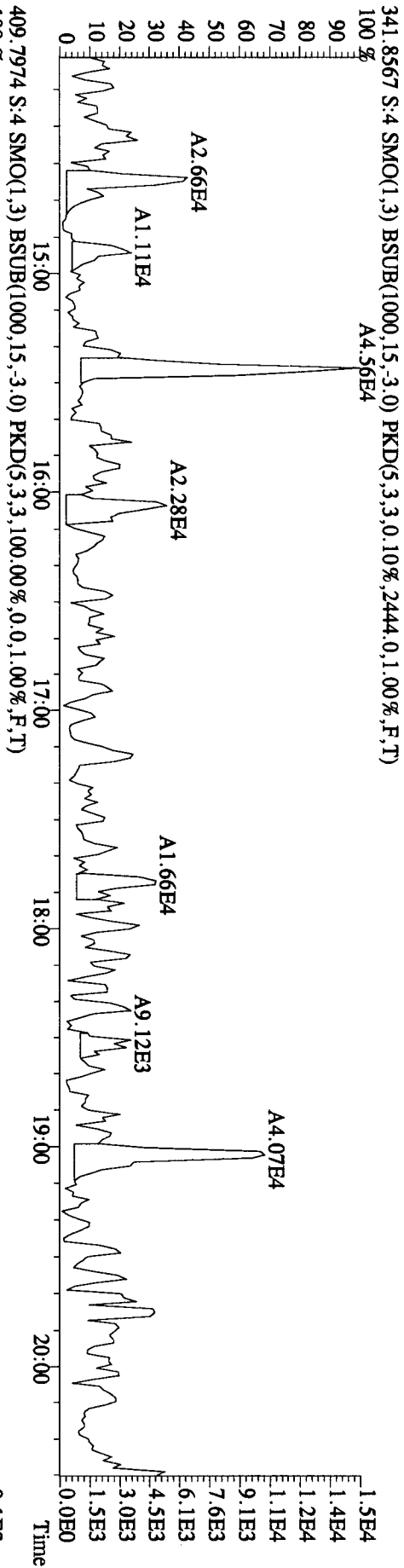
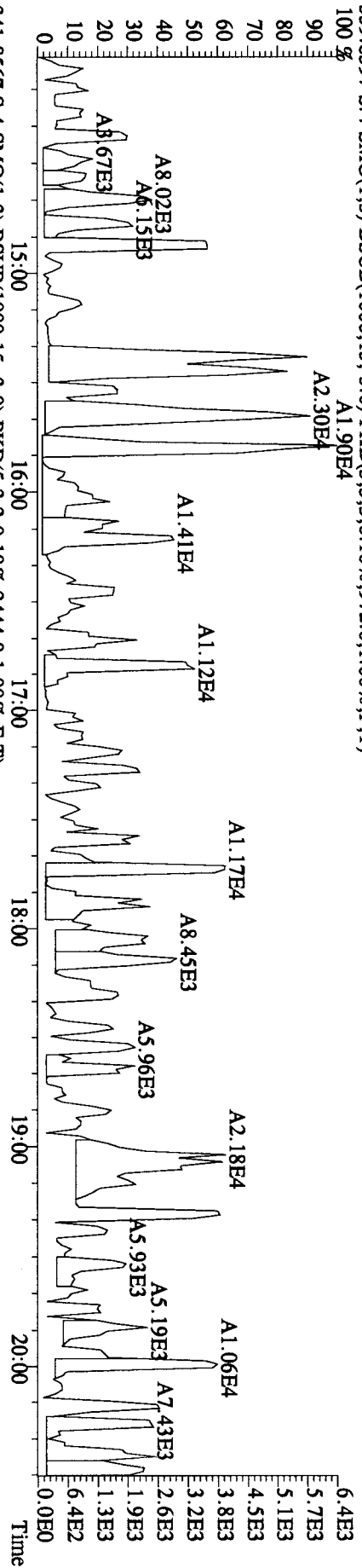
1.2E6

0.0E0

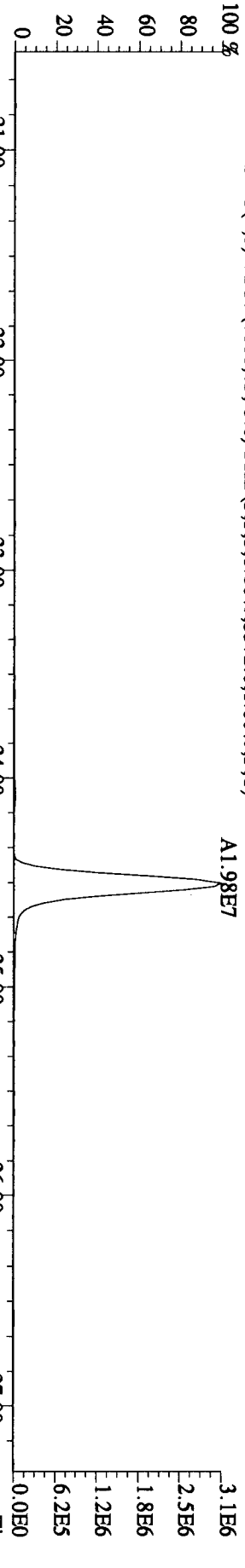
0.0E0



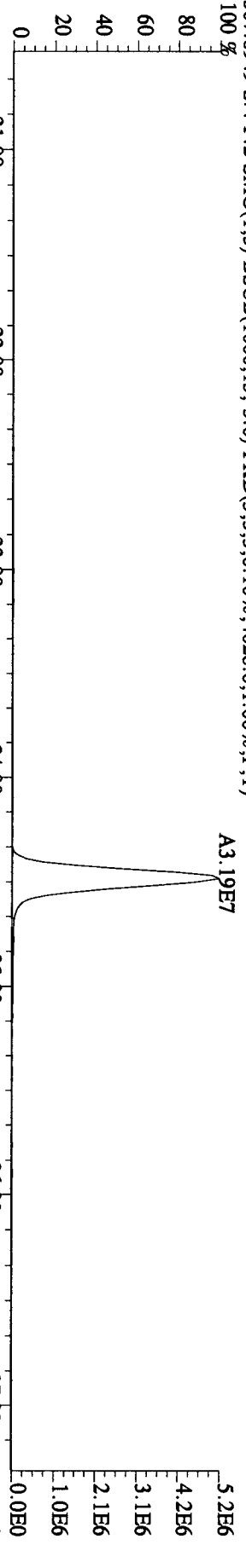
File: 04N0101D5 #1-382 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINES
 339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,972.0,1.00%,F,T)
 100%



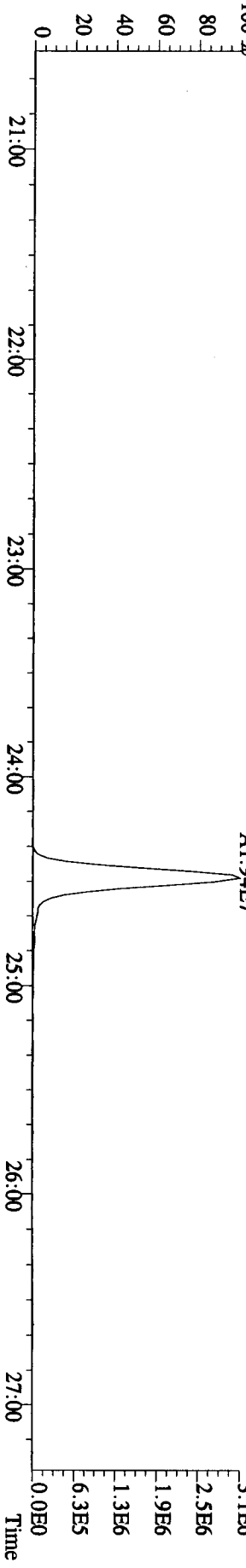
File: 04N0101D5 #1-423 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1576,0,1,00%,F,T)
 100%



357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1576,0,1,00%,F,T)
 100%

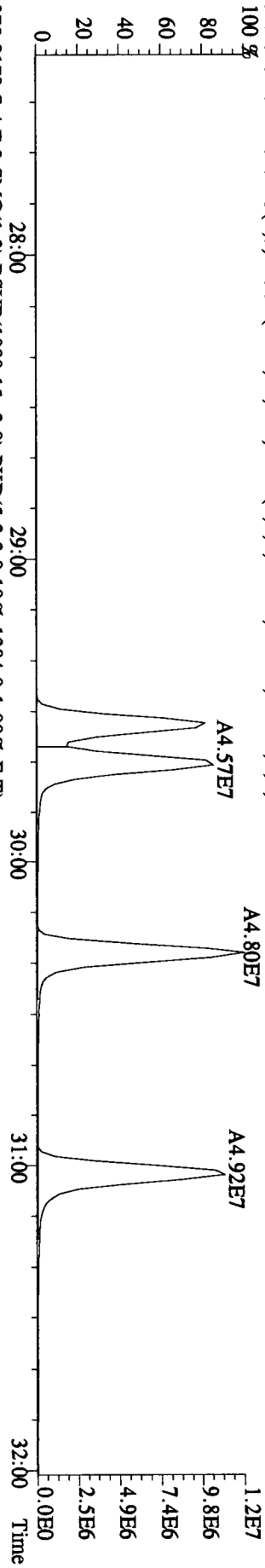


367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4028,0,1,00%,F,T)
 100%

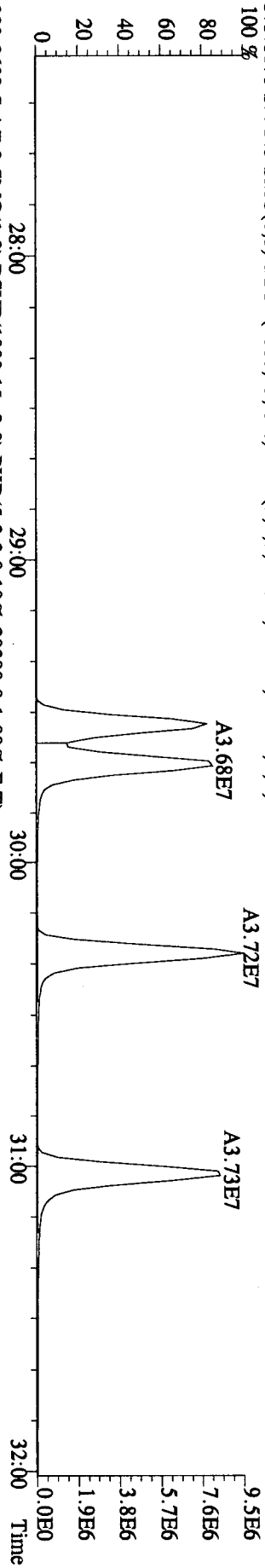


369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1088,0,1,00%,F,T)
 100%

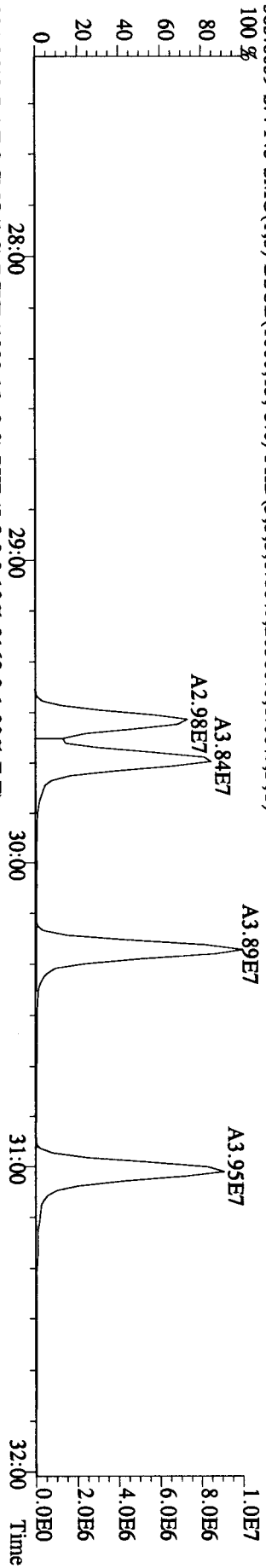
File: 04NO101D5 #1-301 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2764.0,1.00%,F,T)
 100 %



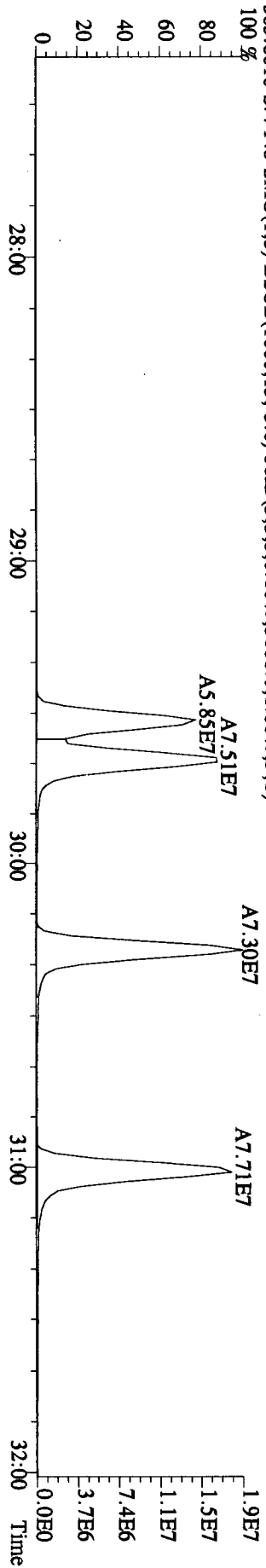
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1384.0,1.00%,F,T)
 100 %



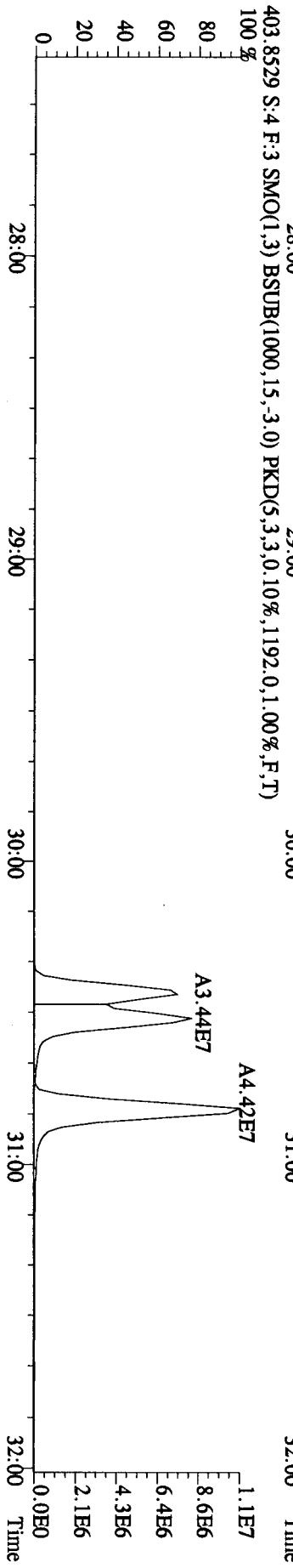
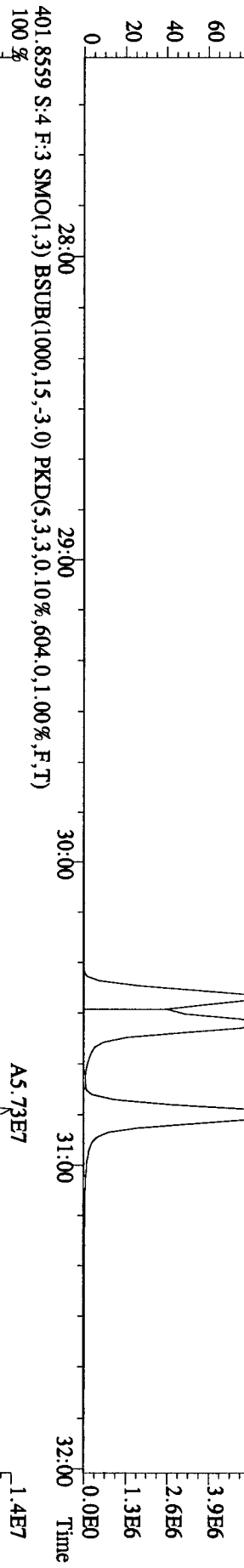
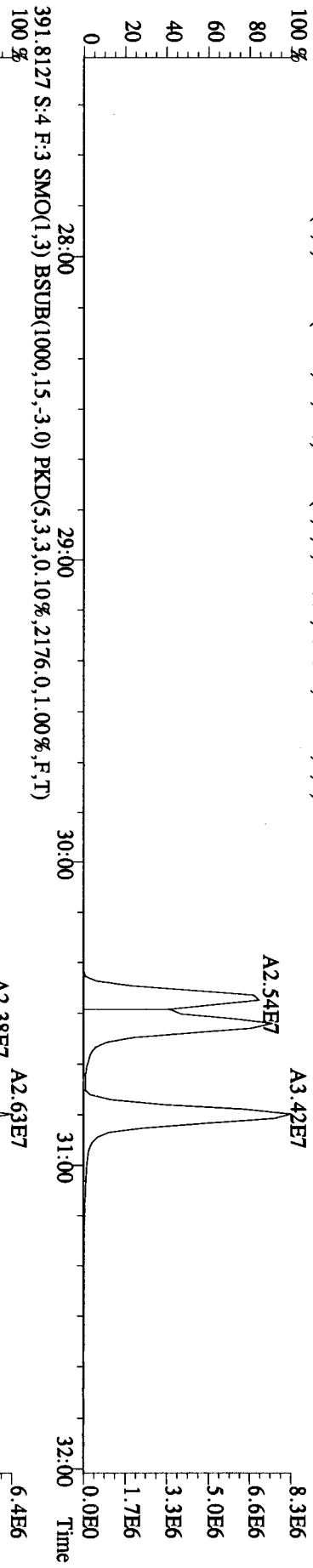
383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,20380.0,1.00%,F,T)
 100 %



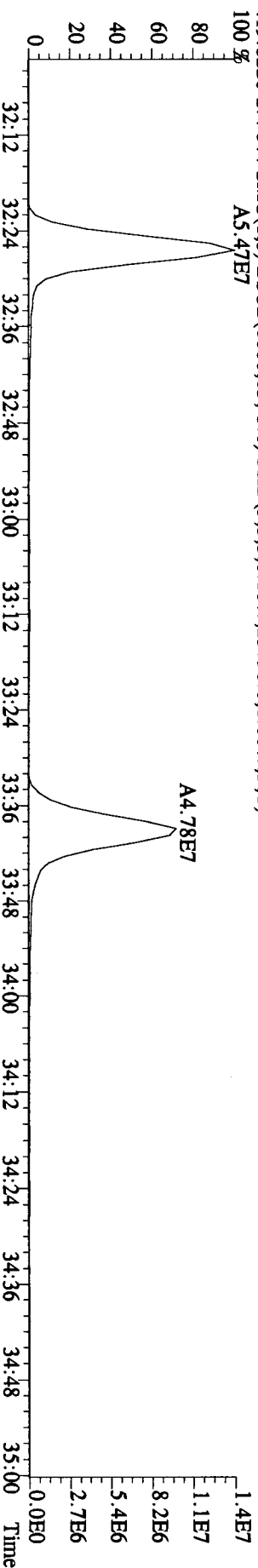
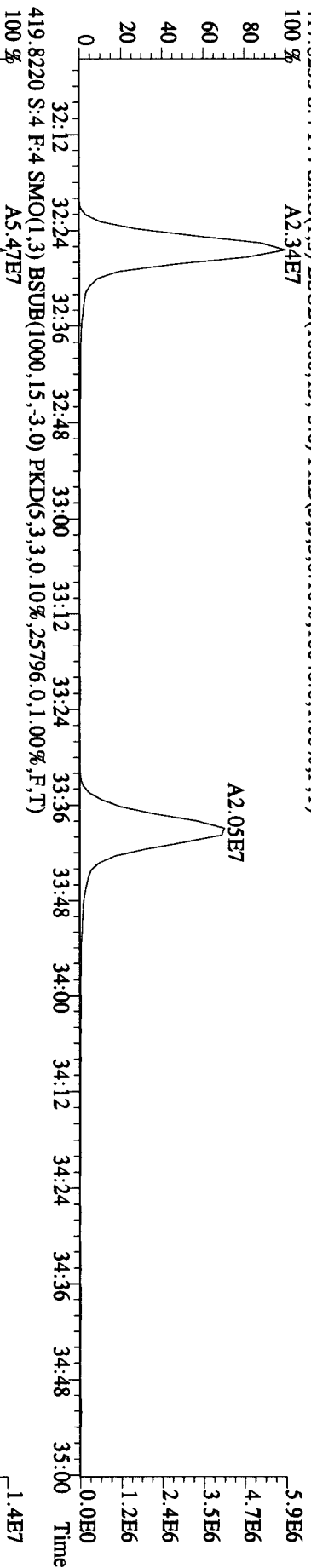
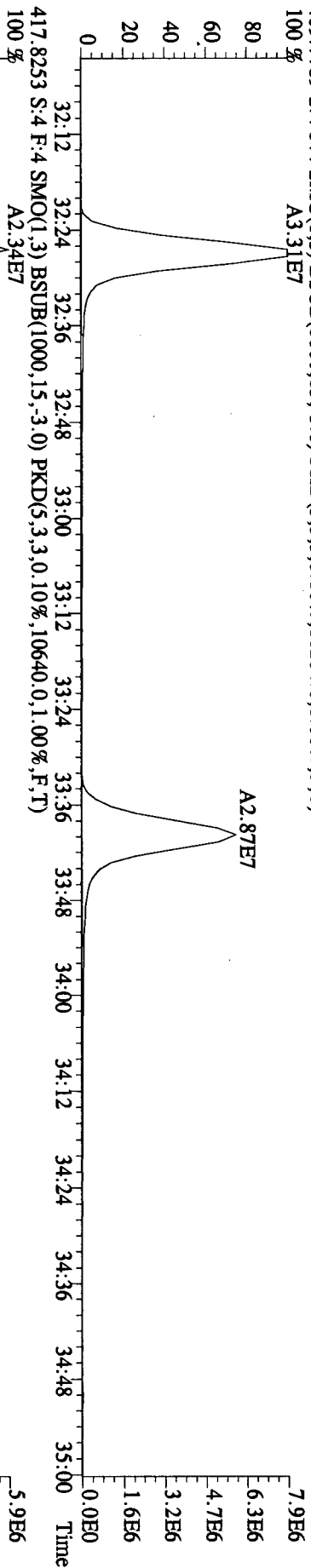
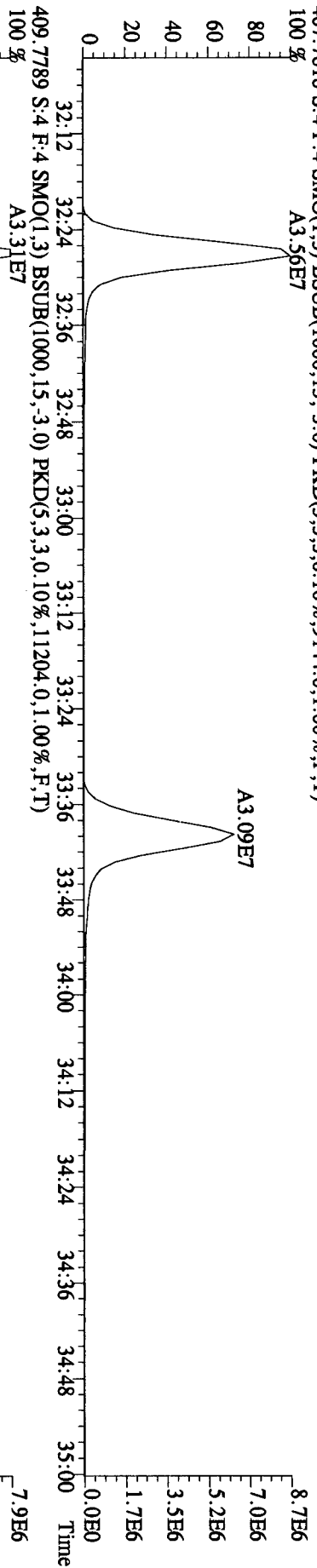
385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3168.0,1.00%,F,T)
 100 %



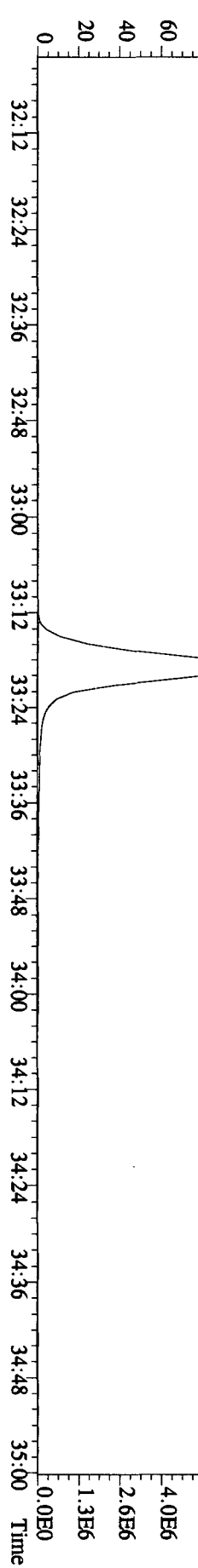
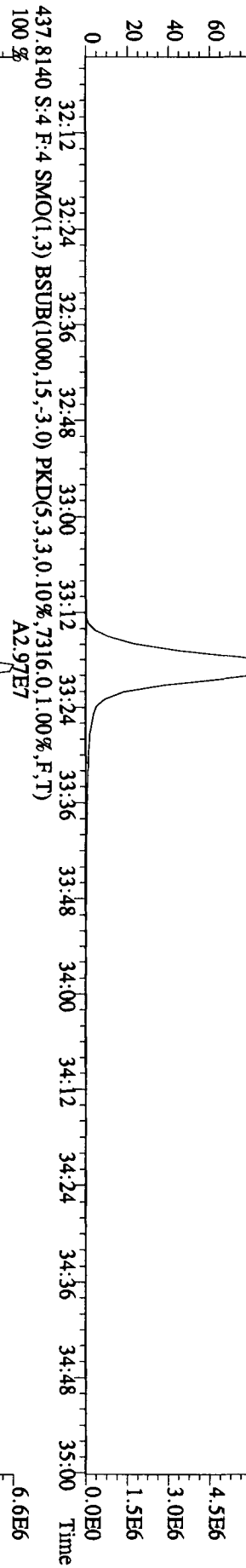
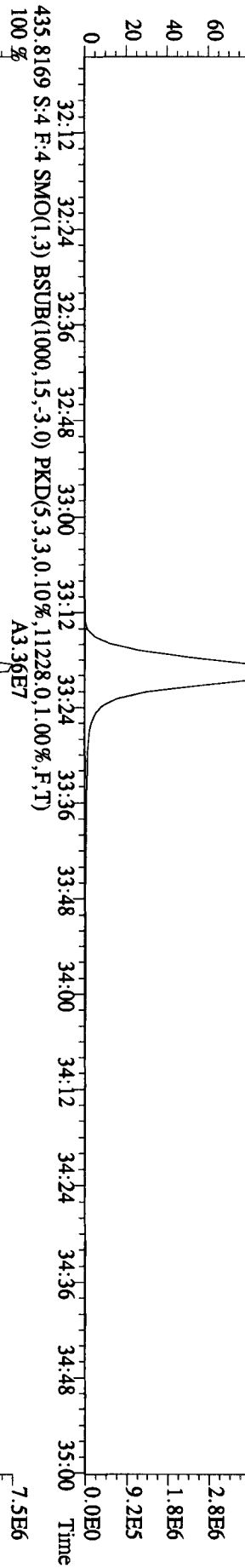
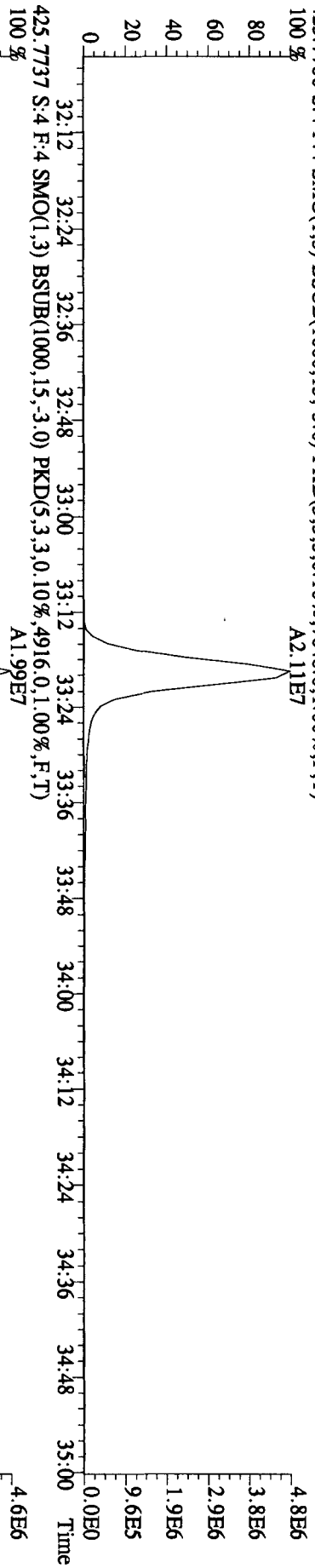
File: 04NO101D5 #1-301 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1660,0,1,00%,F,T)
 100 %



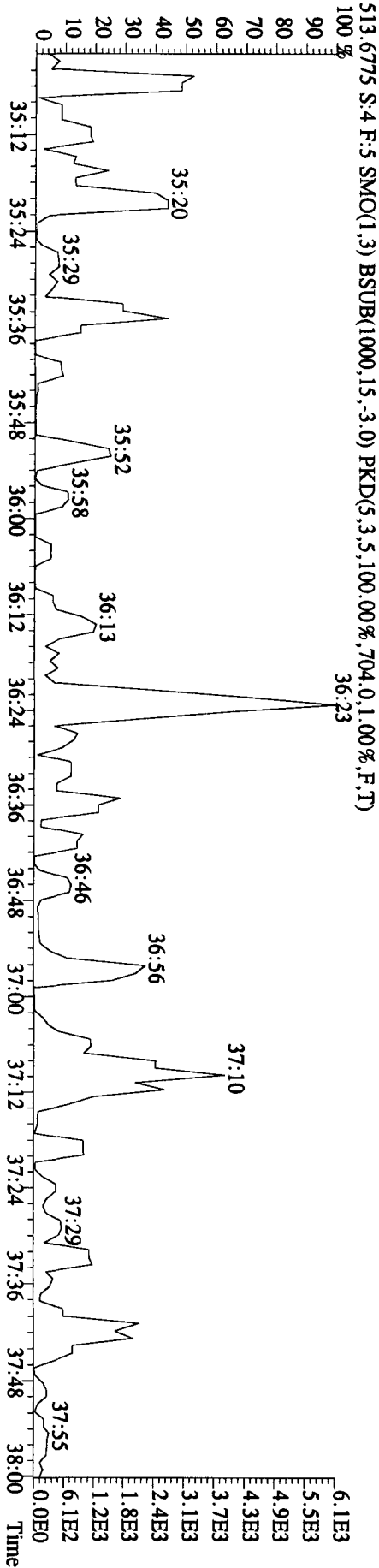
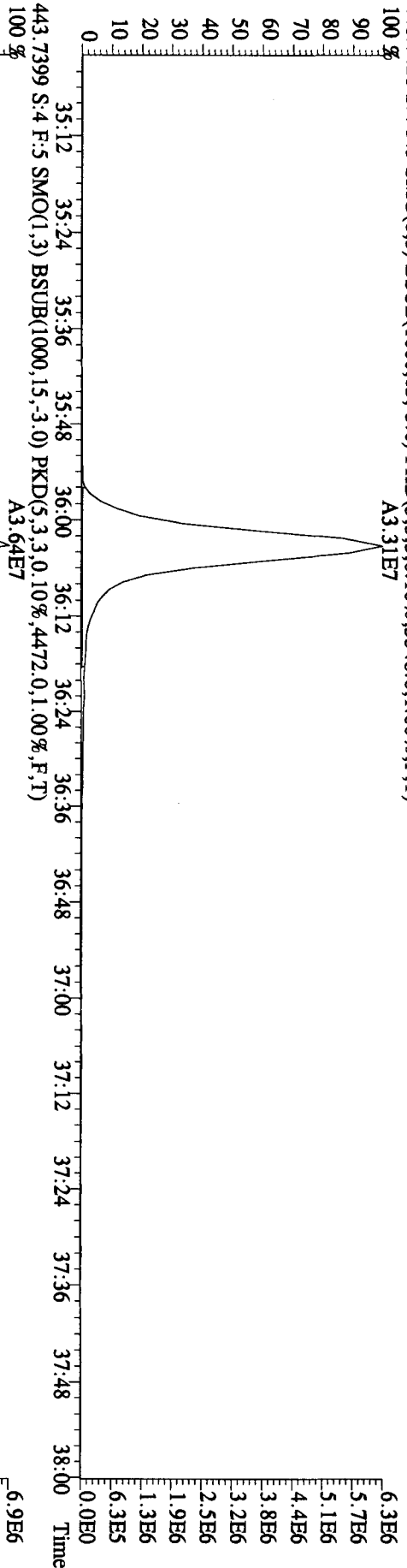
File:04NO101D5 #1-202 Acq: 4-NOV-2010 12:07:45 GC: EI+ Voltage SIR 70SE
Sample#4 Text: Air NS QC :10DXN148 Exp: DIOXINRES
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9144,0,1,100%,F,T)
100 % A3.56E7



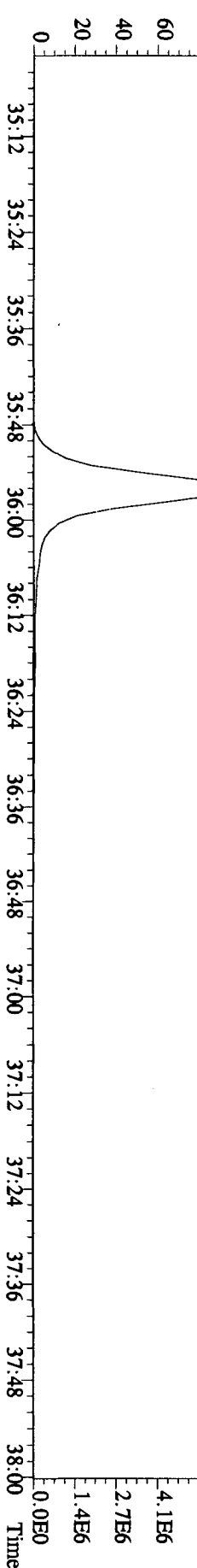
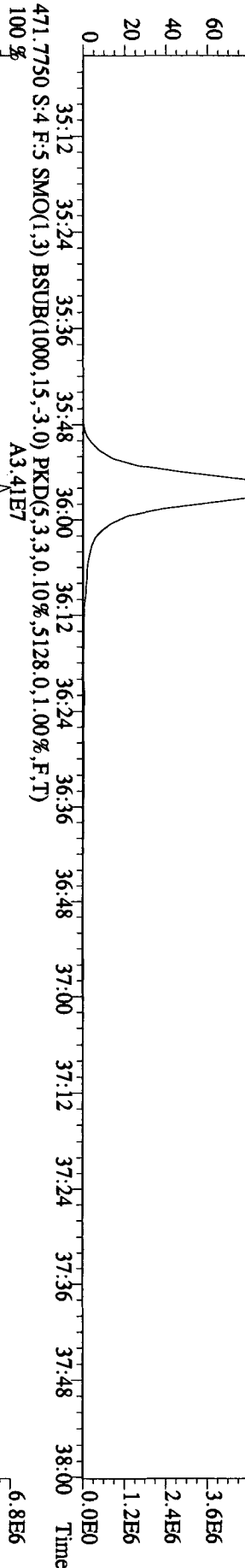
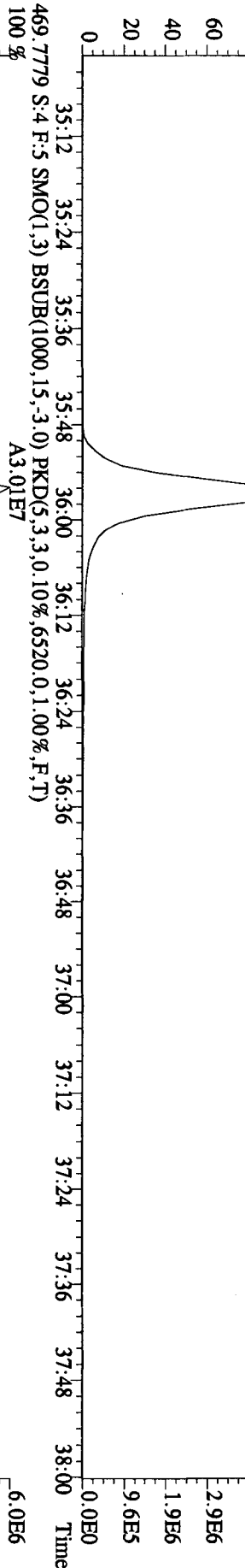
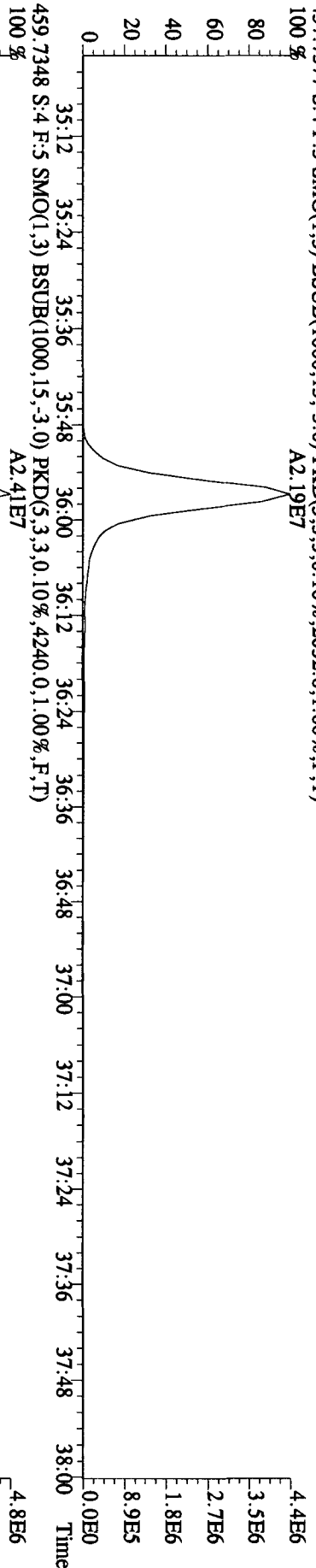
File: 04NO101D5 #1-202 Acq: 4-NOV-2010 12:07:45 GC: EI+ Voltage: SIR 70SE
Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7048,0,1,00%,F,T)
100% A2.11E7

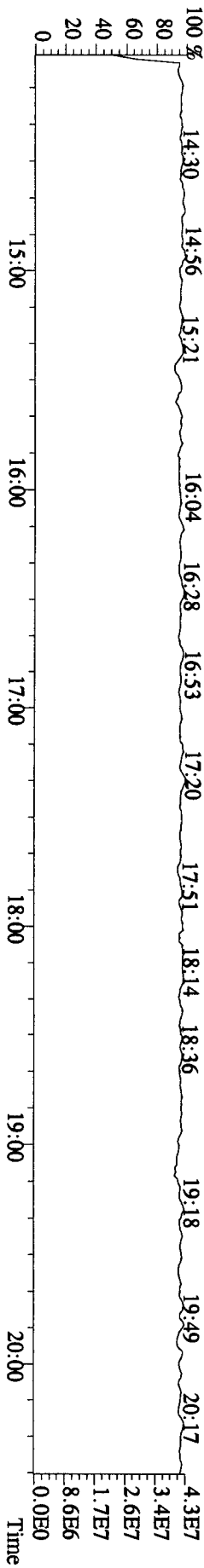
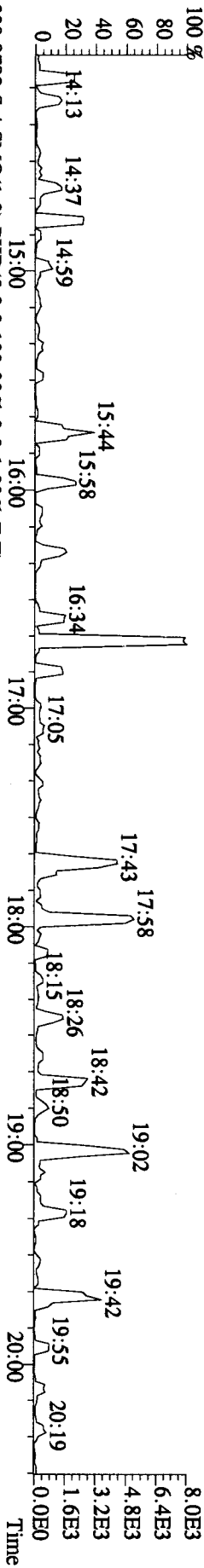
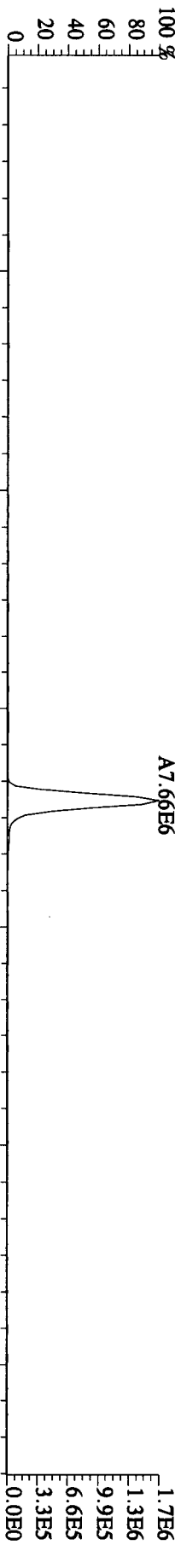
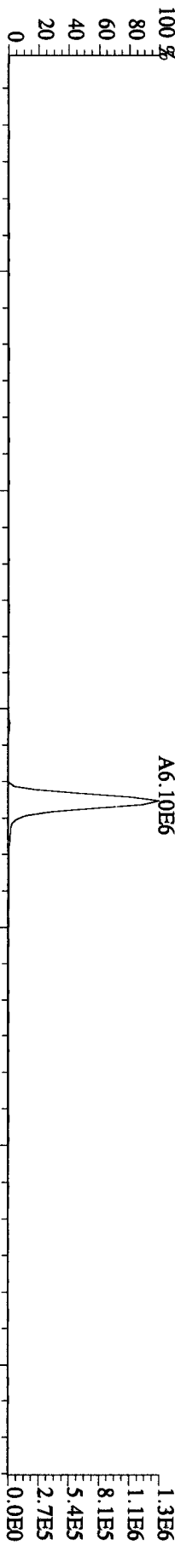
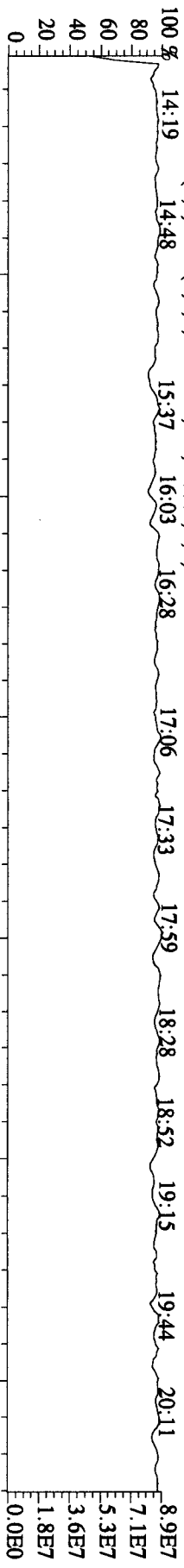


File: 04NO101D5 #1-196 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE
 Sample#4 Text: Air NS OC :10DXN148 Exp: DIOXINRES
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4472,0,1,00%,F,T)
 100% A3.31E7



File:04NO101D5 #1-196 Acq: 4-NOV-2010 12:07:45 GC EI + Voltage SIR 70SE
 Sample#4 Text:Air NS OC :10DXN148 Exp:DIOXINRES
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2632,0,1.00%,F,T)
 100 % A2.19E7



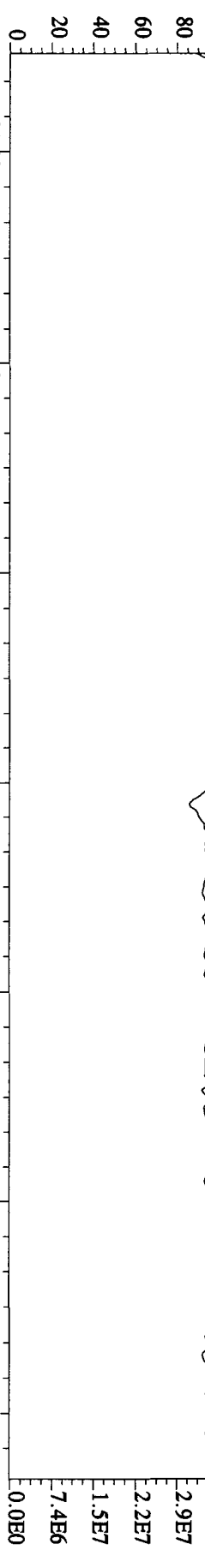


File: 04NO101D5 #1-423 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE

Sample# 1 Text: Air NS OC :10DXN148 Exp: DIOXINRES

342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

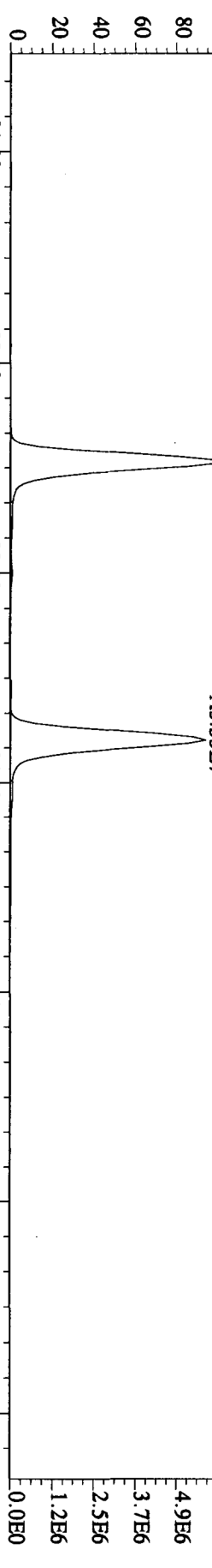
100% 21:00 21:41 22:20 22:46 23:14 23:56 24:25 25:01 25:44 26:07 26:41 27:08



339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4484,0,1,00%,F,T)

A3.65E7

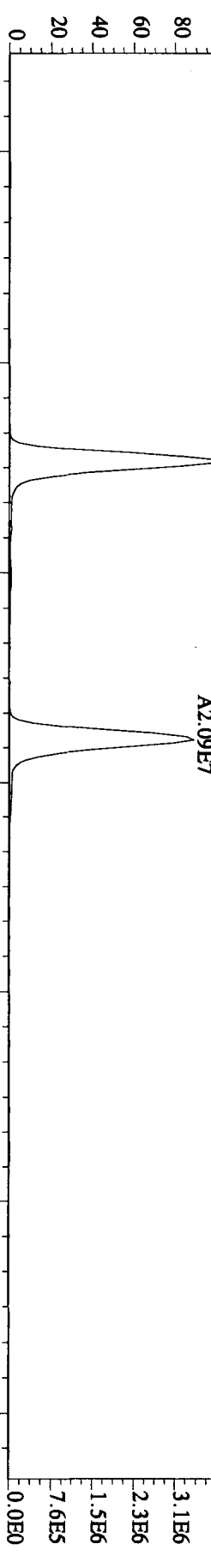
A3.53E7



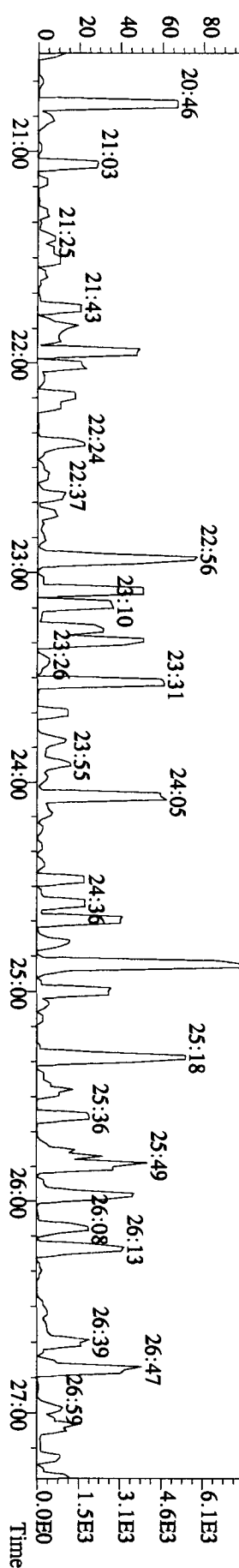
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3904,0,1,00%,F,T)

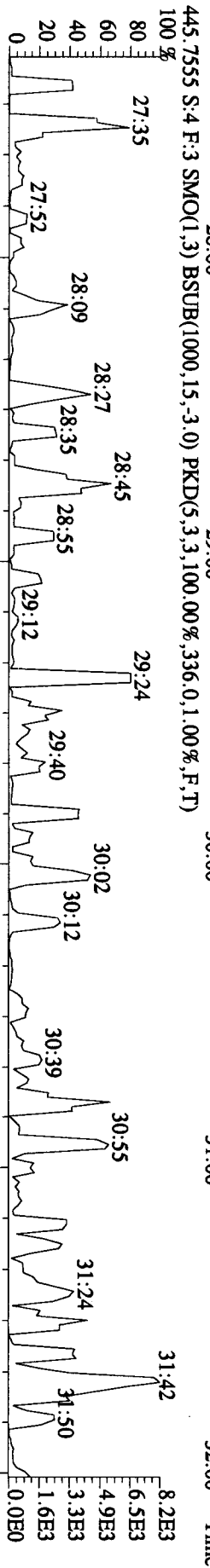
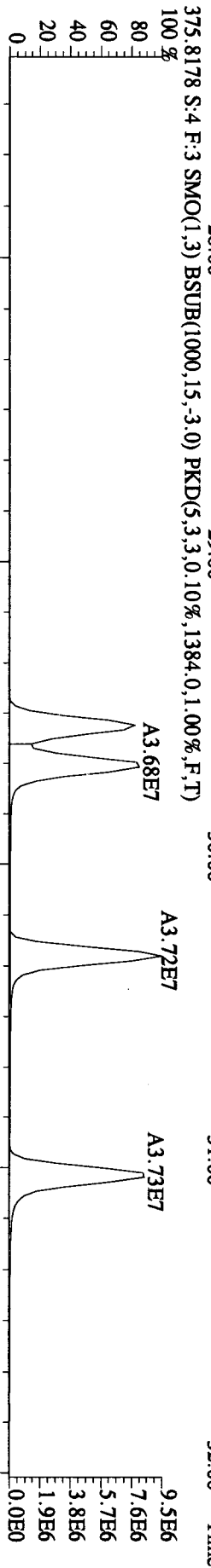
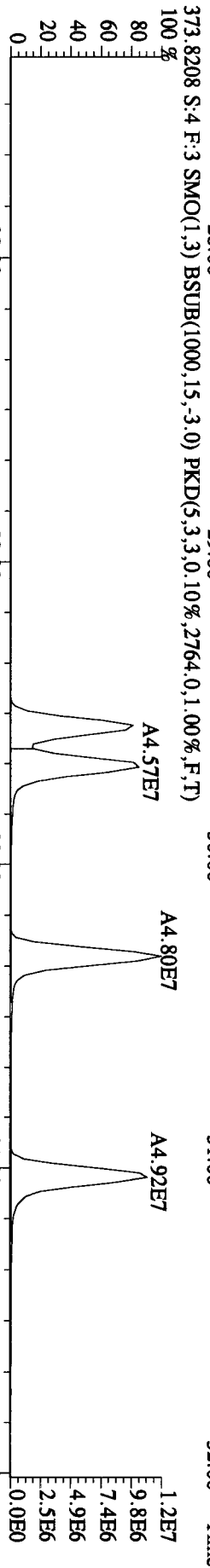
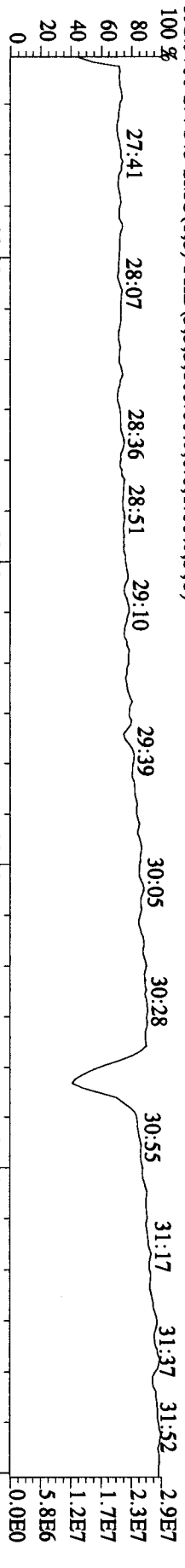
A2.25E7

A2.09E7



409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

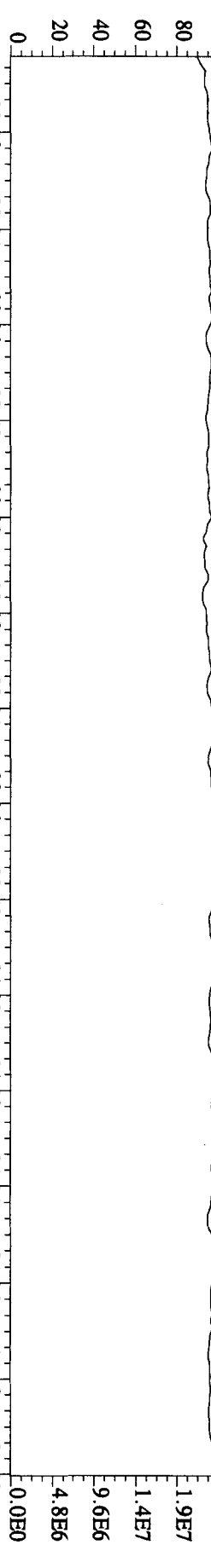




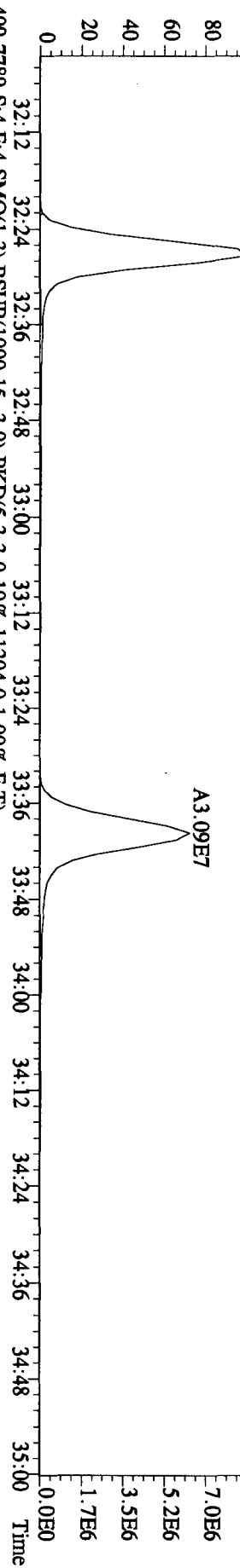
File:04NO101D5 #1-202 Acq: 4-NOV-2010 12:07:45 GC: EI+ Voltage SIR 70SE

Sample#4 Text: Air NS OC :10DDXN148 Exp: DIOXINRES

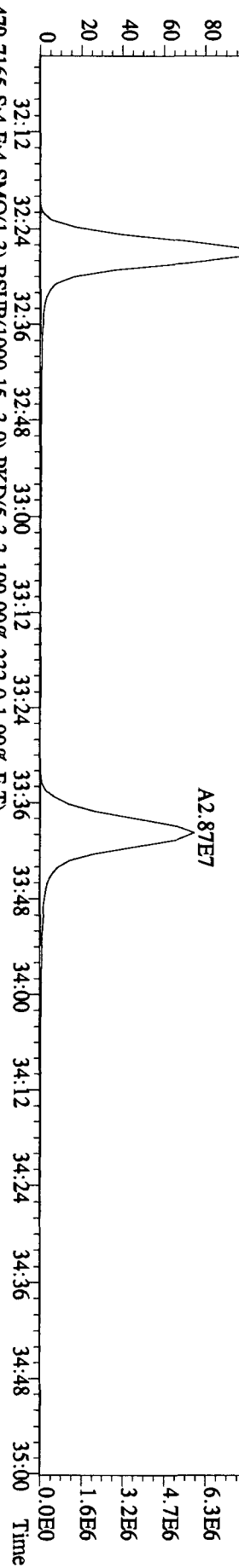
430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



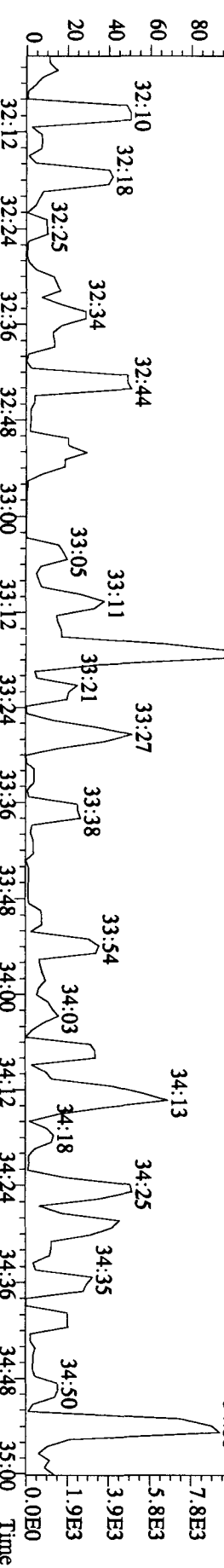
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9144,0,1,00%,F,T)



409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11204,0,1,00%,F,T)



479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,232,0,1,00%,F,T)

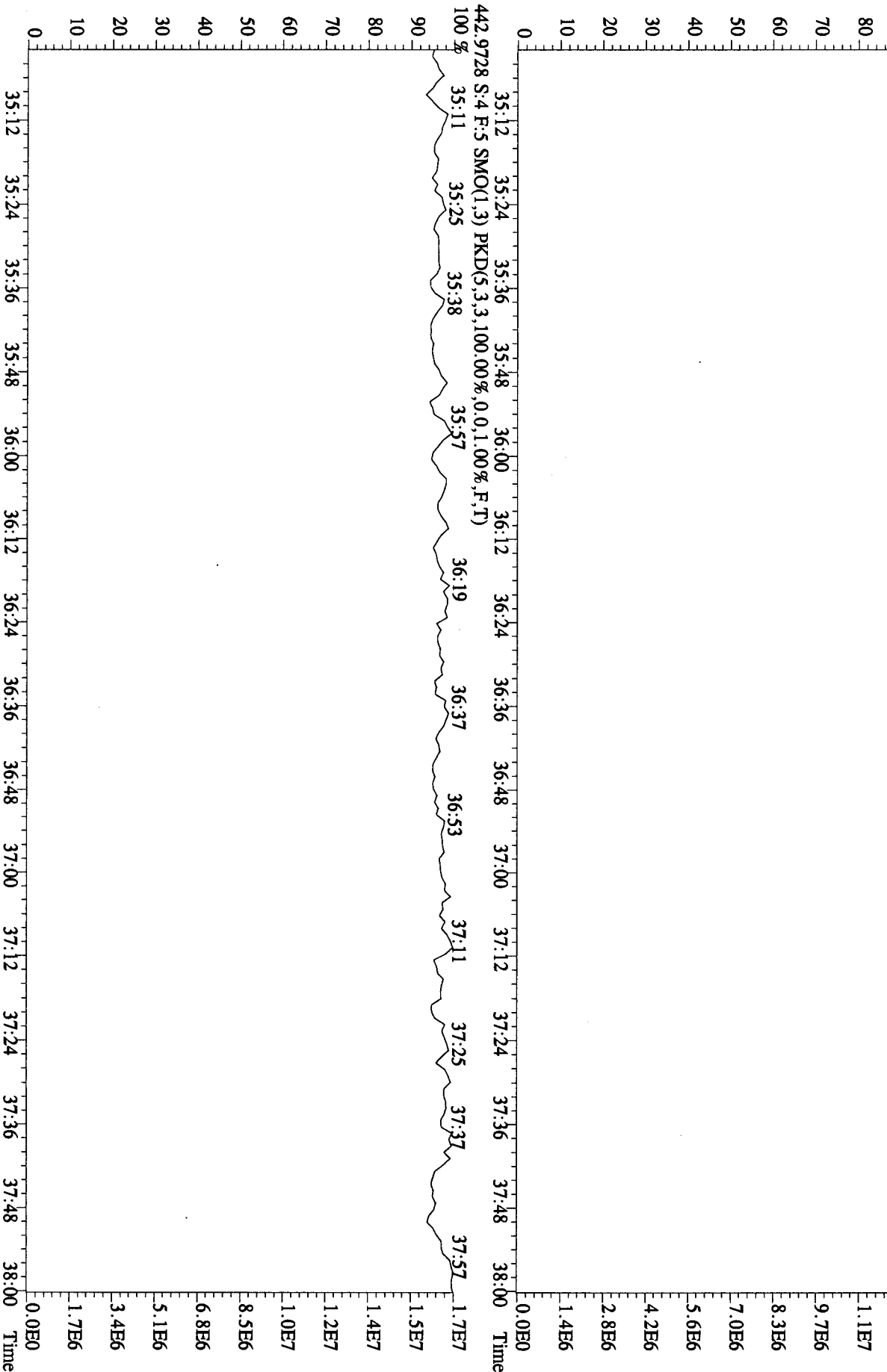


File: 04N0101D5 #1-196 Acq: 4-NOV-2010 12:07:45 GC EI+ Voltage SIR 70SE

Sample#4 Text: Air NS QC : 10DXN148 Exp: DIOXINRES

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

100 % 35:17 35:29 35:38 35:50 36:06 36:20 36:36 36:49 36:58 37:10 37:31 37:50

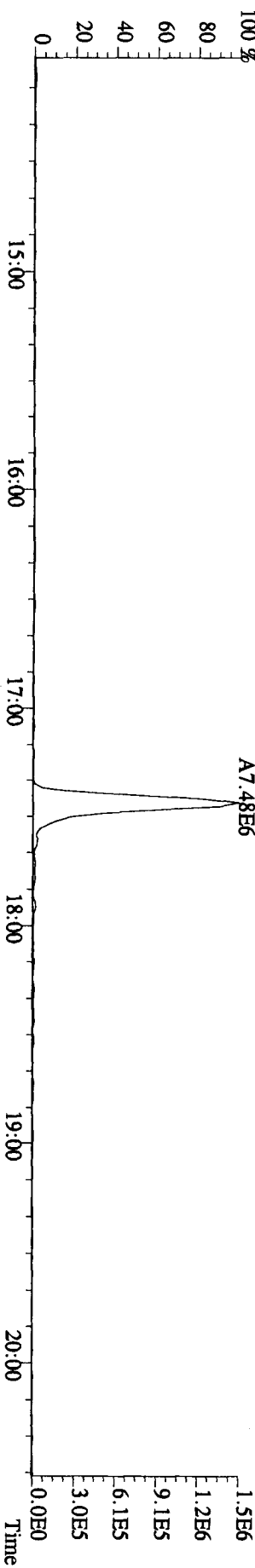
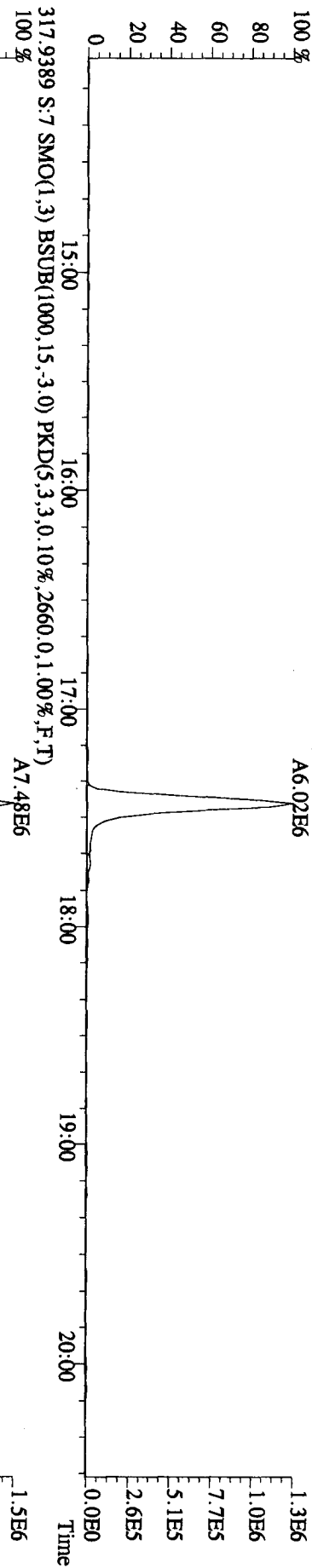
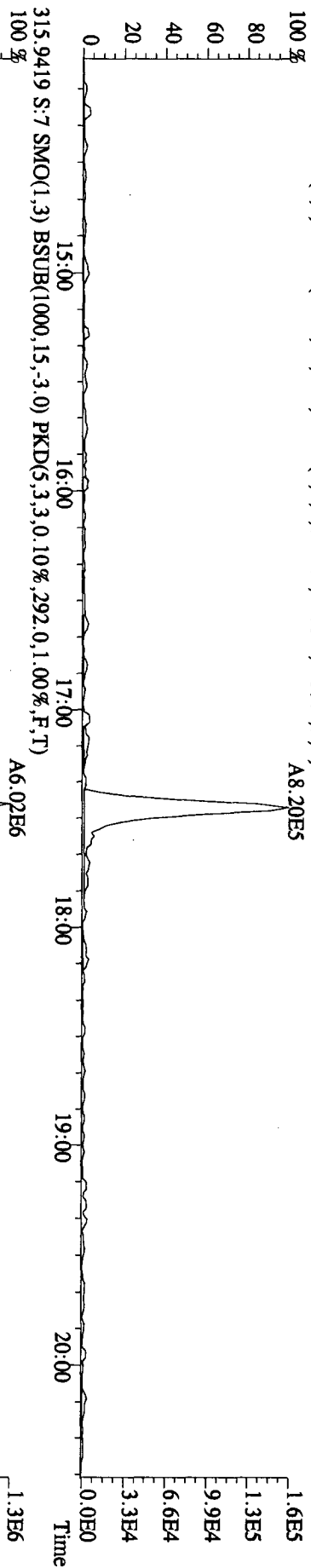
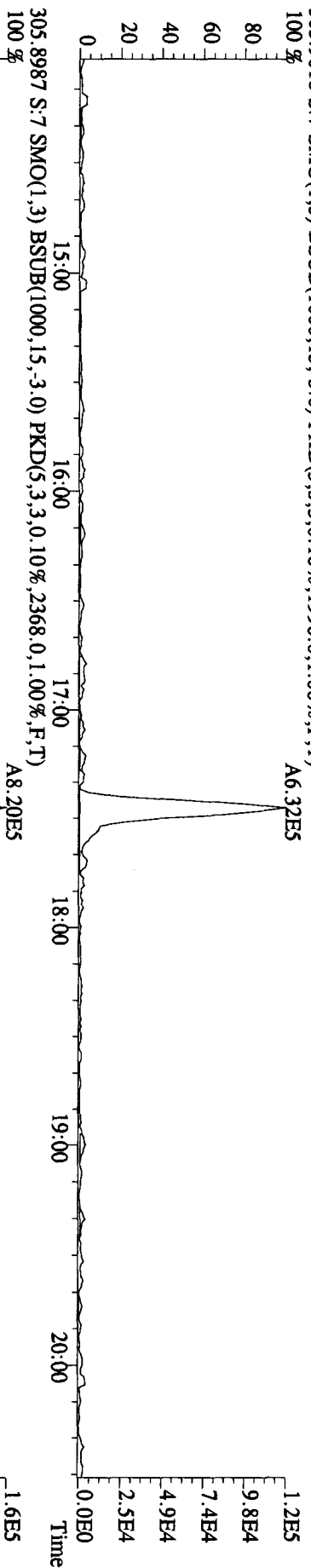


Run text: Air NS QC Sample text: Air NS QC :10DXN148 (5x)
 Run #9 Filename: 04NO101D5 S: 7 I: 1 Results: 04NO101D5TO9
 Acquired: 4-NOV-10 14:16:13 Processed: 4-NOV-10 14:55:49
 Run: 04NO101D5 Analyte: TO9 Cal: TO91029101D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000Samp

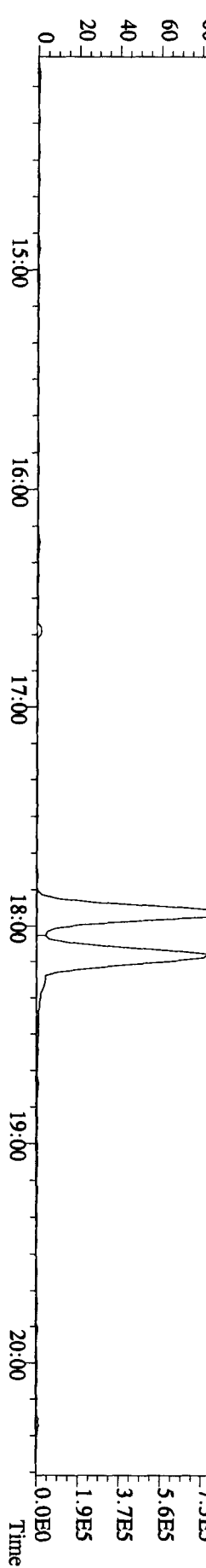
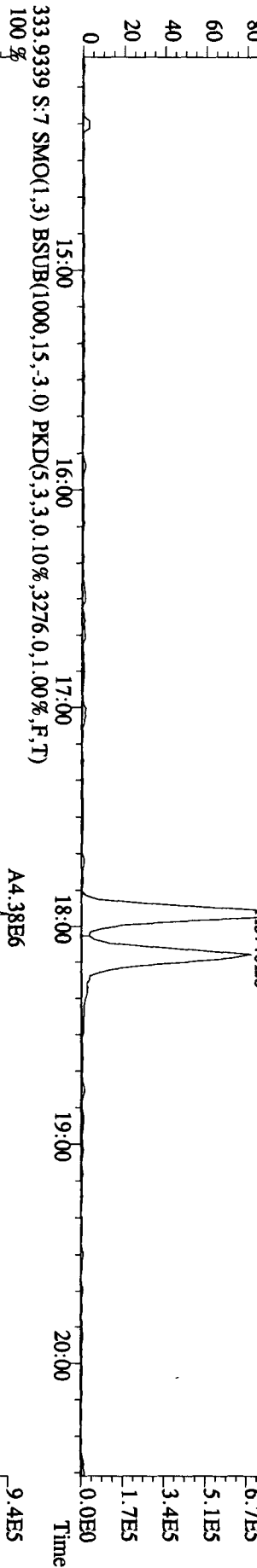
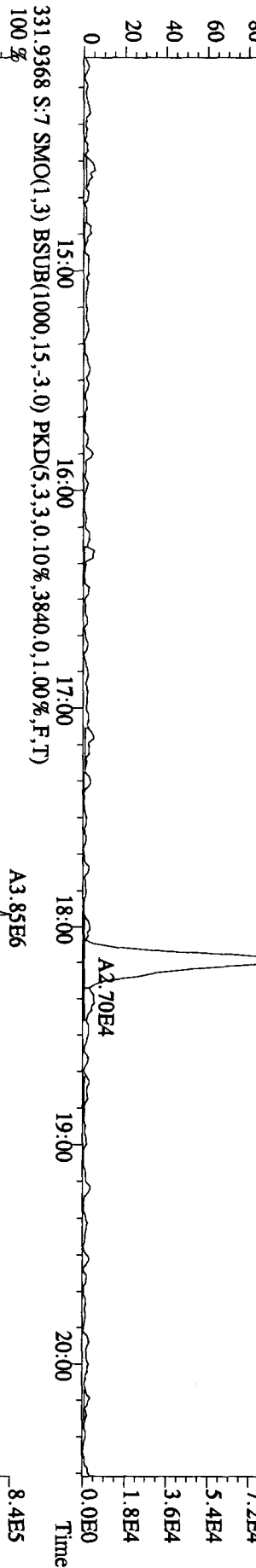
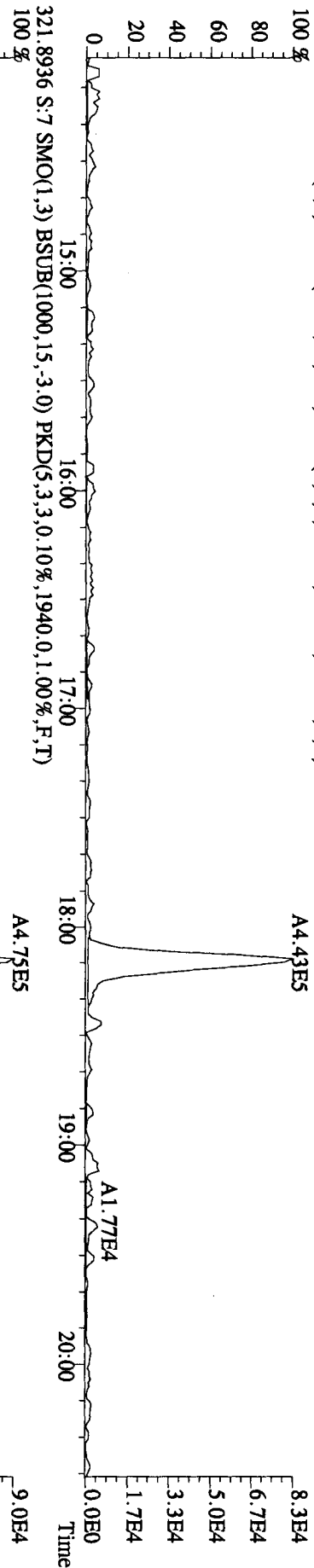
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	8228840	0.88 y	17:57	-	4.81	-	-	n
13C-2,3,7,8-TCDF	13499630	0.81 y	17:26	1.57	2083.87	6.33	104.2	n
2,3,7,8-TCDF	1451975	0.77 y	17:27	0.88	245.14	10.63	-	n
Total TCDF	1535634	2.47 n	16:47	0.88	259.27	10.63	-	n
13C-2,3,7,8-TCDD	7733710	0.78 y	18:08	0.99	1899.96	24.25	95.0	n
2,3,7,8-TCDD	841587	0.93 n	18:09	0.94	231.49	17.25	-	n
Total TCDD	841587	0.93 n	18:09	0.94	231.49	17.25	-	n
37Cl-2,3,7,8-TCDD	24253	1.00 y	18:13	1.18	5.33	5.15	0.7	n
13C-1,2,3,7,8-PeCDF	9295890	1.69 y	22:28	1.15	1957.14	7.61	97.9	n
1,2,3,7,8-PeCDF	6215510	1.69 y	22:29	1.03	1299.33	21.22	-	n
2,3,4,7,8-PeCDF	5765120	1.64 y	23:49	0.95	1309.80	23.06	-	n
Total F2 PeCDF	12089504	2.39 n	21:06	0.99	2632.84	22.10	-	n
Total F1 PeCDF	247023	0.55 n	14:35	0.99	53.79	7.99	-	n
13C-1,2,3,7,8-PeCDD	5241050	1.75 y	24:30	0.67	1909.75	7.75	95.5	n
1,2,3,7,8-PeCDD	3280420	1.54 y	24:32	0.96	1302.62	28.19	-	n
Total PeCDD	3434942	1.47 y	21:48	0.96	1363.98	28.19	-	n
13C-1,2,3,7,8,9-HxCDD	9788380	1.25 y	30:50	-	7.28	-	-	n
13C-1,2,3,4,7,8-HxCDF	8602580	0.52 y	29:33	1.15	1530.75	29.85	76.5	n
1,2,3,4,7,8-HxCDF	6806038	1.43 n	29:34	1.22	1298.01	19.58	-	n
1,2,3,6,7,8-HxCDF	8804200	1.29 y	29:41	1.41	1454.63	16.96	-	n
2,3,4,6,7,8-HxCDF	8565880	1.30 y	30:20	1.23	1616.31	19.37	-	n
1,2,3,7,8,9-HxCDF	7975120	1.23 y	31:03	1.08	1710.81	22.02	-	n
Total HxCDF	32407492	1.43 n	29:34	1.24	6127.99	19.32	-	n
13C-1,2,3,6,7,8-HxCDD	6991820	1.41 y	30:33	0.96	1489.90	13.44	74.5	n
1,2,3,4,7,8-HxCDD	3496394	1.49 n	30:28	0.89	1127.20	23.48	-	n
1,2,3,6,7,8-HxCDD	5524650	1.15 y	30:33	1.05	1506.63	19.87	-	n
1,2,3,7,8,9-HxCDD	6135990	1.34 y	30:51	1.00	1746.73	20.74	-	n
Total HxCDD	15416782	1.49 n	30:28	0.98	4456.36	21.26	-	n
13C-1,2,3,4,6,7,8-HpCDF	6725020	0.40 y	32:29	0.98	1395.97	30.16	69.8	n
1,2,3,4,6,7,8-HpCDF	5732260	1.08 y	32:29	1.33	1280.39	29.86	-	n
1,2,3,4,7,8,9-HpCDF	4779460	1.15 y	33:43	1.12	1270.21	35.53	-	n
Total HpCDF	10575301	1.08 y	32:29	1.23	2566.03	32.45	-	n
13C-1,2,3,4,6,7,8-HpCDD	4746260	1.11 y	33:21	0.82	1176.33	13.23	58.8	n
1,2,3,4,6,7,8-HpCDD	3388820	1.08 y	33:22	1.05	1362.43	31.77	-	n
Total HpCDD	3388820	1.08 y	33:22	1.05	1362.43	31.77	-	n
13C-OCDD	4675160	0.95 y	35:59	0.54	1763.07	28.16	44.1	n

OCDF	5407740	0.89	y	36:07	1.58	2928.56	62.00	-	n
OCDD	3689140	0.85	y	36:00	1.13	2785.56	50.67	-	n

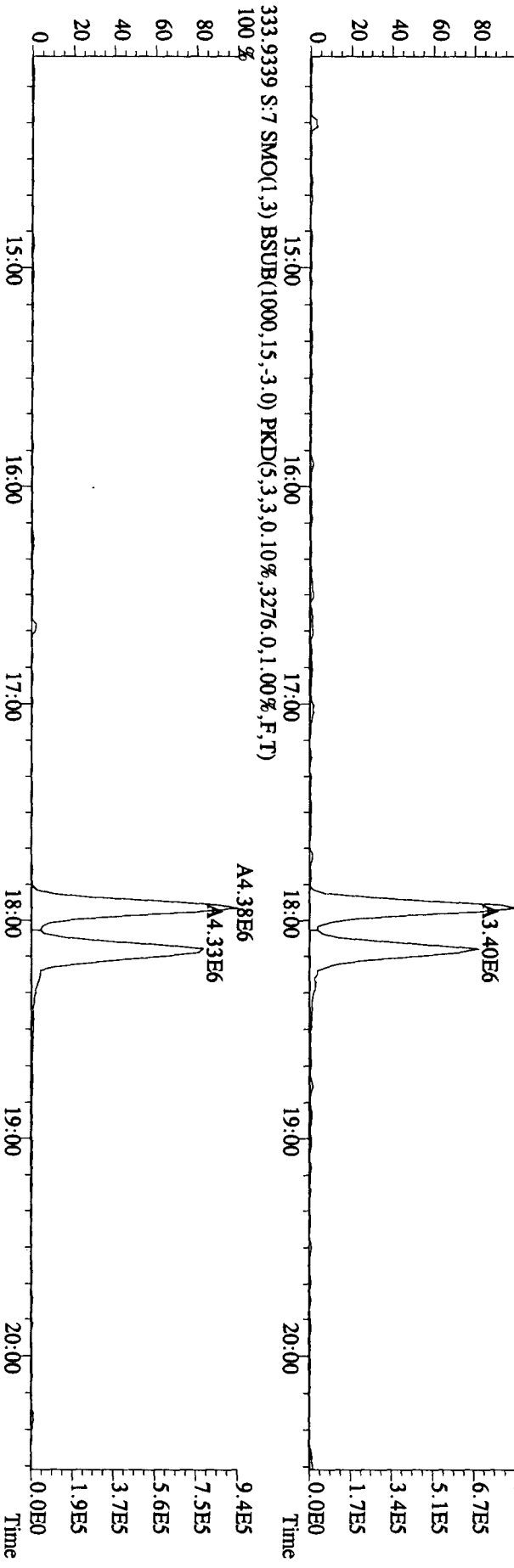
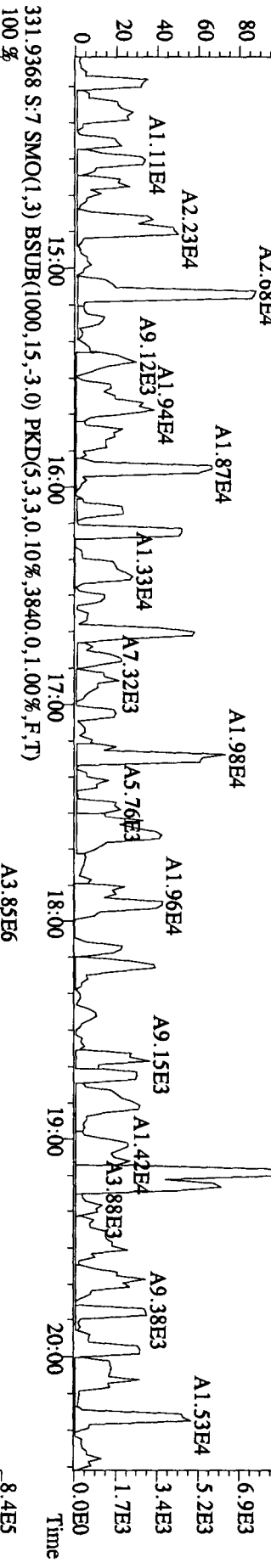
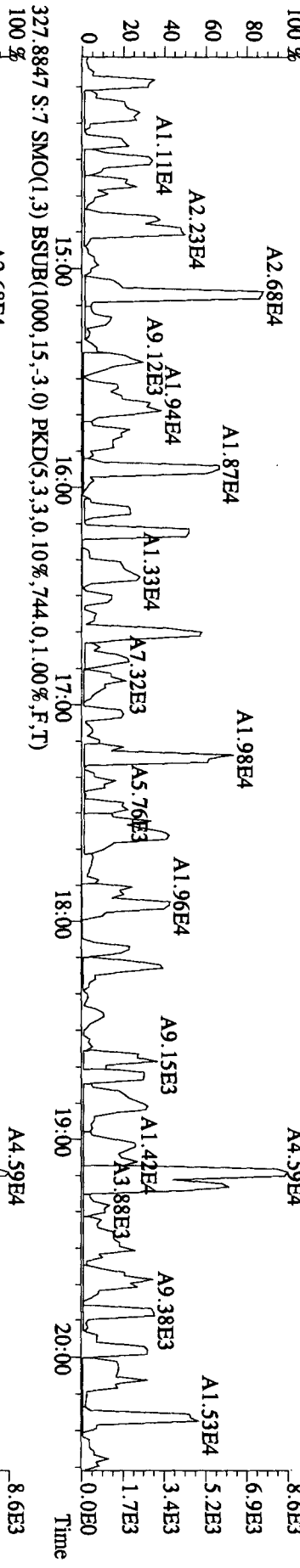
File:04NO101D5 #1-382 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text:Air NS QC :10DXN148 (5X) Exp:DIOXINRES
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1996.0,1.00%,F,T)



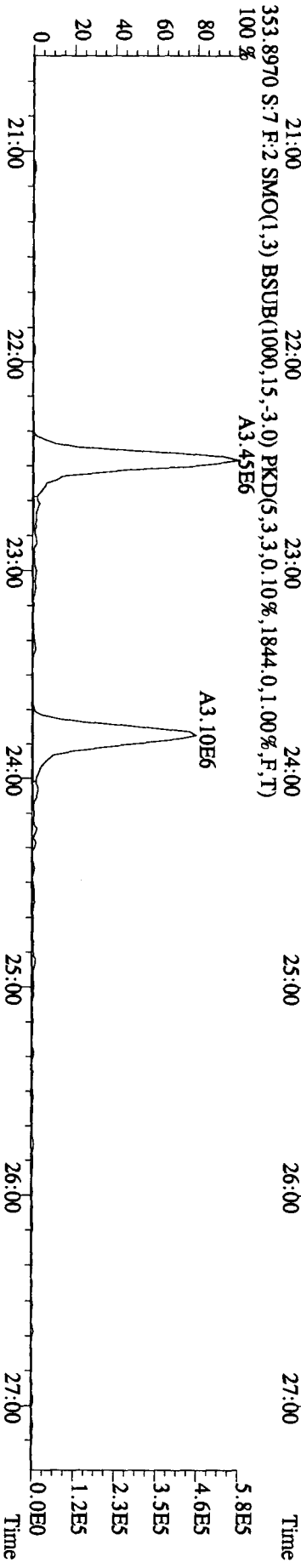
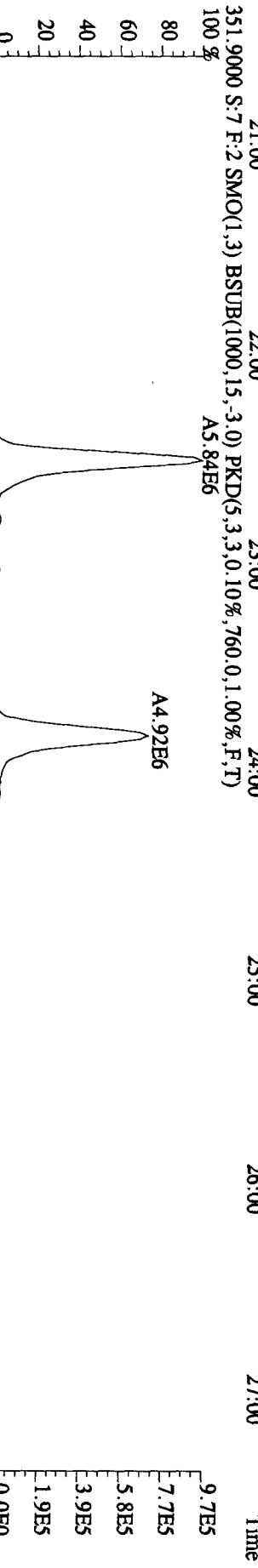
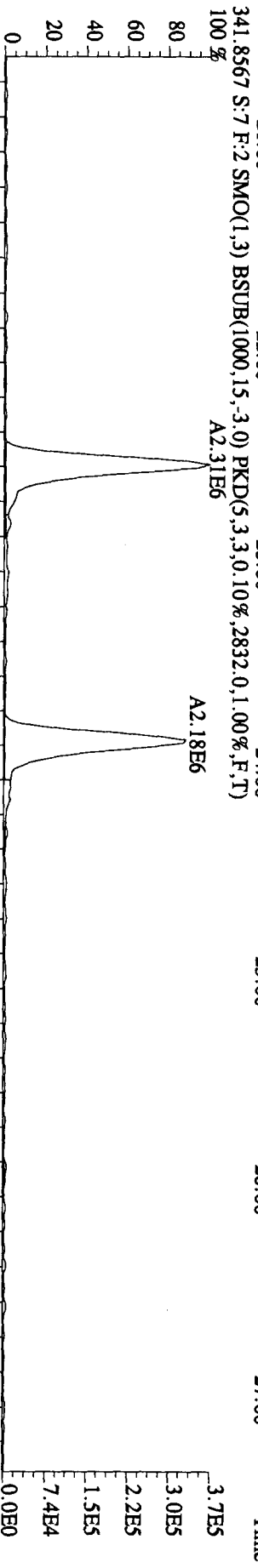
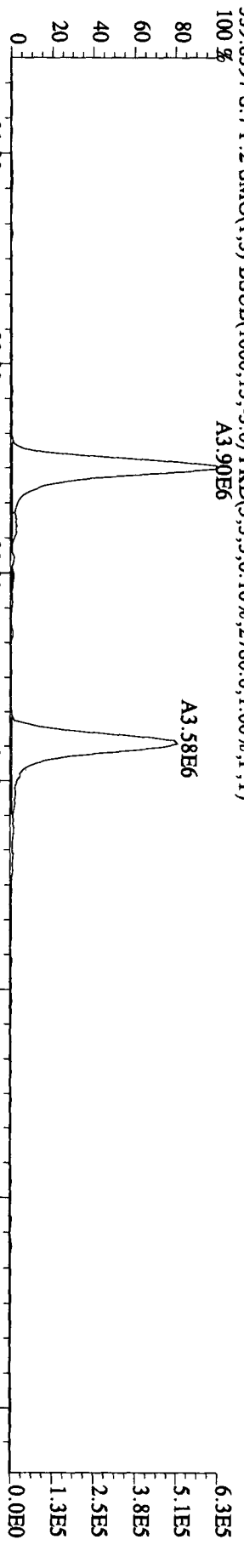
File:04NO101D5 #1-382 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text:Air NS QC :10DXN148 (5x) Exp:DIOXINRES
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2044,0,1.00%,F,T)



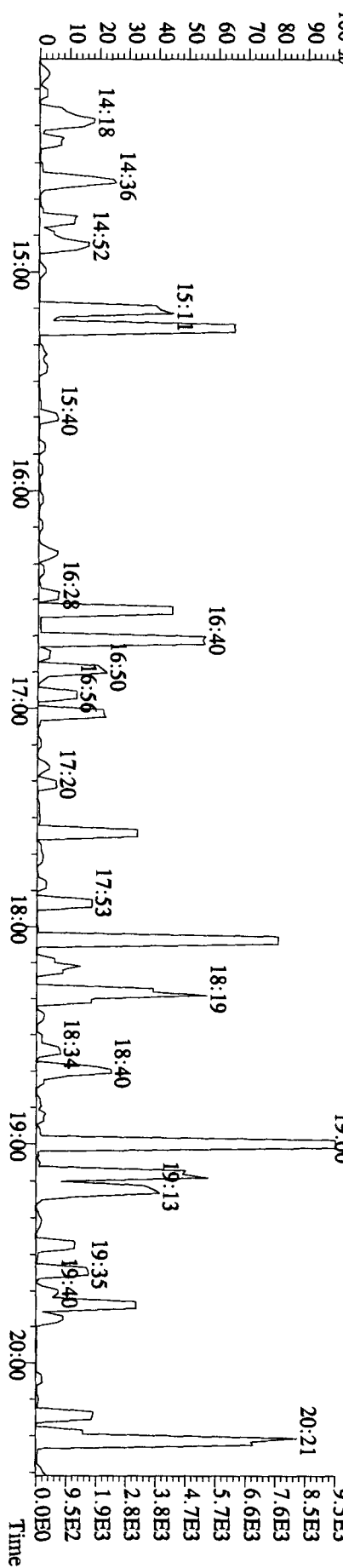
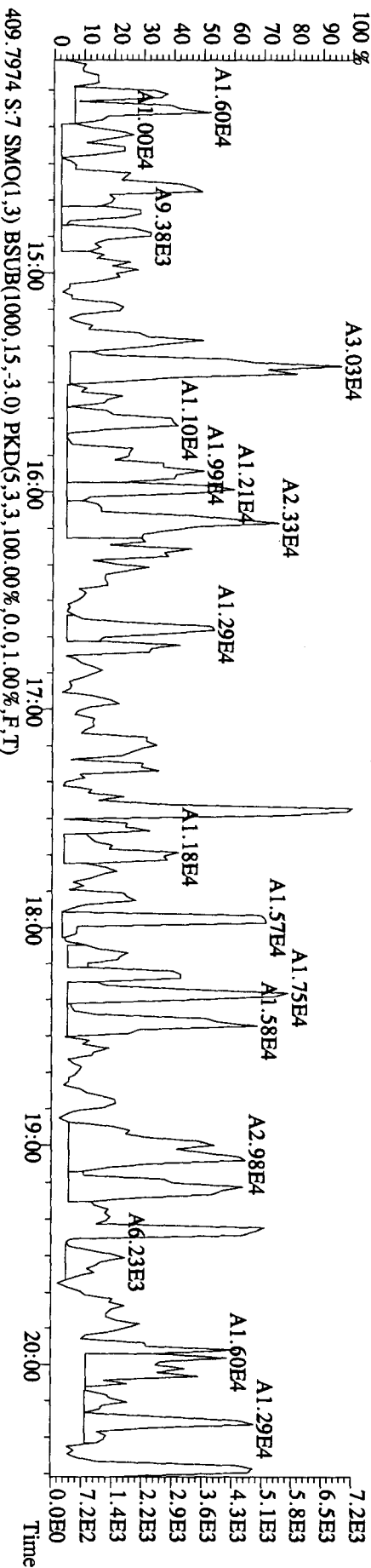
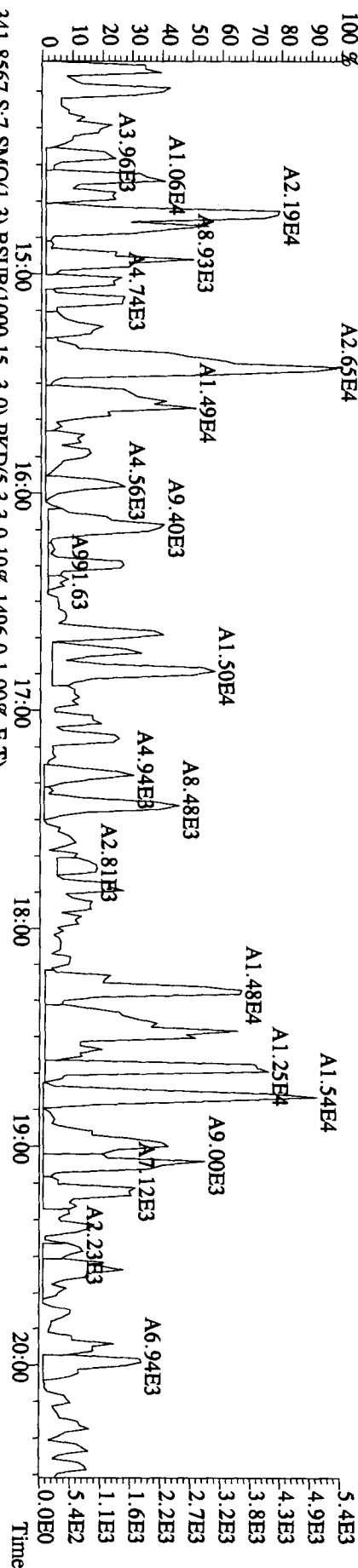
File: 04\NO101D5 #1-382 Acq: 4-NOV-2010 14:16:13 GC: EI+ Voltage: SIR 70SE
 Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,744.0,1.00%,F,T)



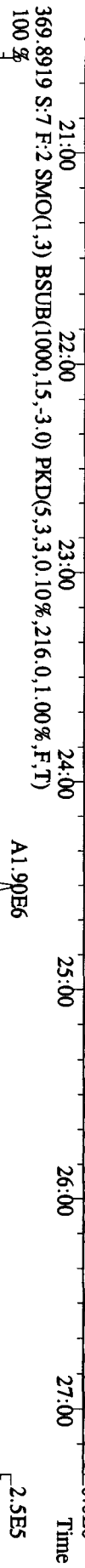
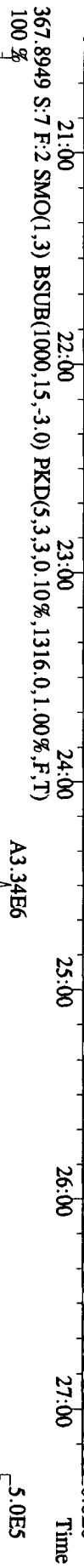
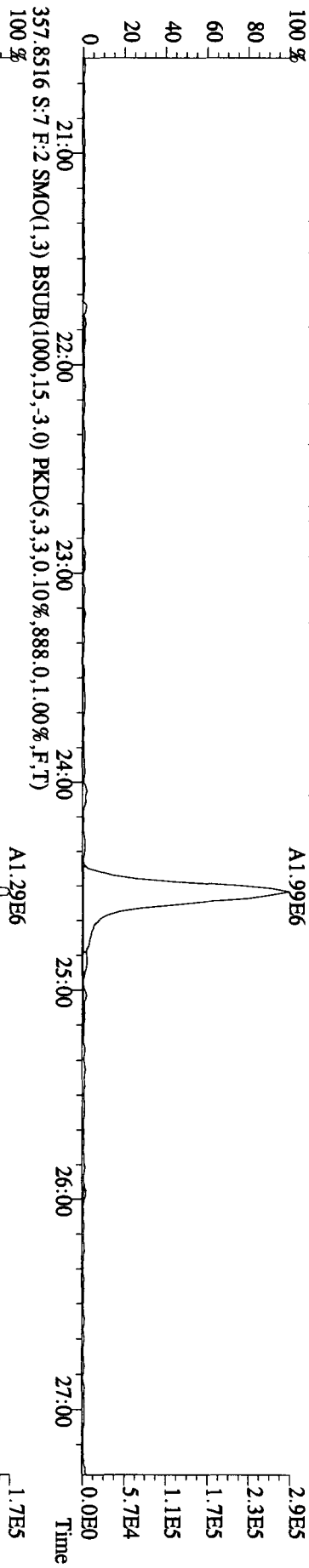
File: 04NO101D5 #1-422 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC : 10DXN148 (5x) Exp: DIOXINRES
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2780.0,1.00%,F,T)
 100% A3.90E6



File: 04NO101D5 #1-382 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES
 339.8597 S.:7.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1496,0,1,100%,F,T)
 409.7974 S.:7.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,0,0,1,100%,F,T)



File:04NOV101D5 #1-422 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2424,0,1.00%,F,T)
 100%

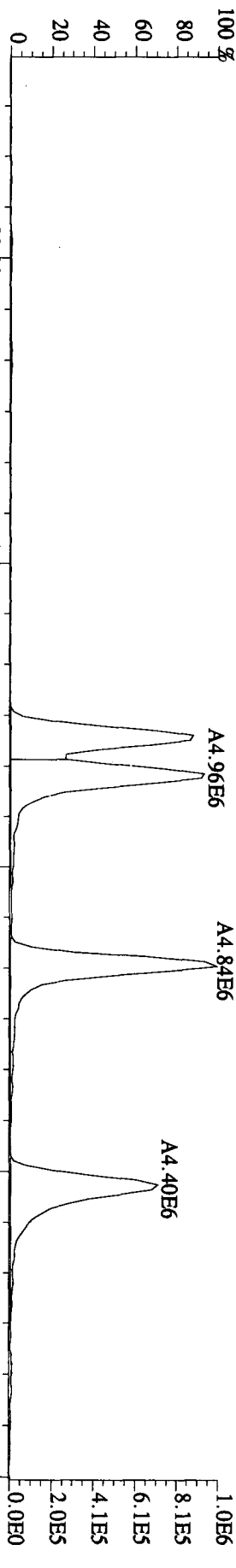


File:04NO101D5 #1-301 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE

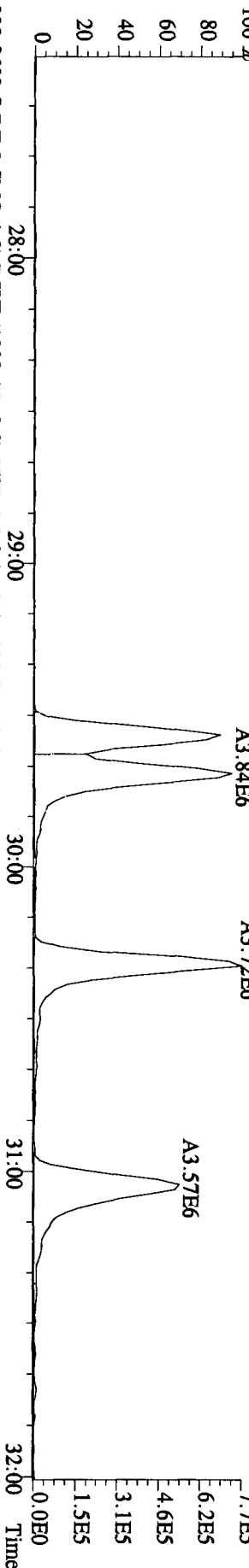
Sample#7 Text:Air NS QC :10DXN148 (5x)

Exp:DIOXINRES

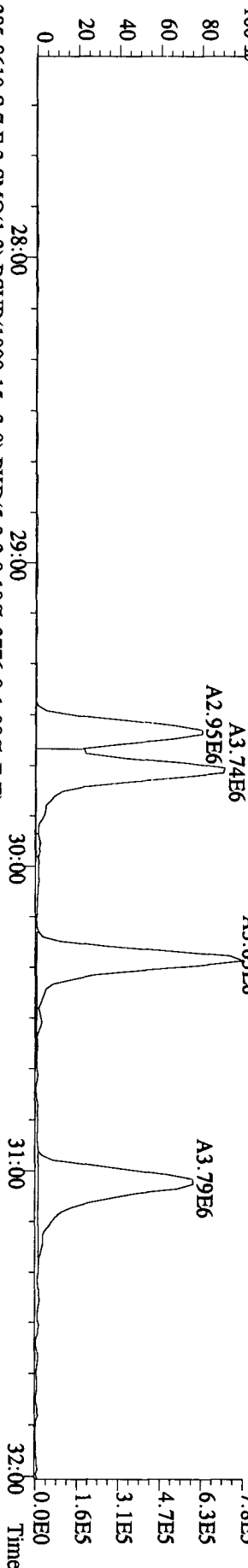
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5296,0,1,00%,F,T)



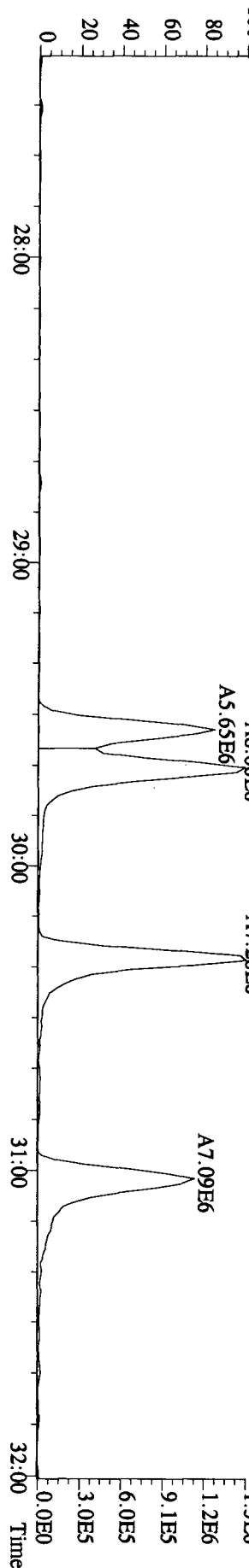
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2212,0,1,00%,F,T)



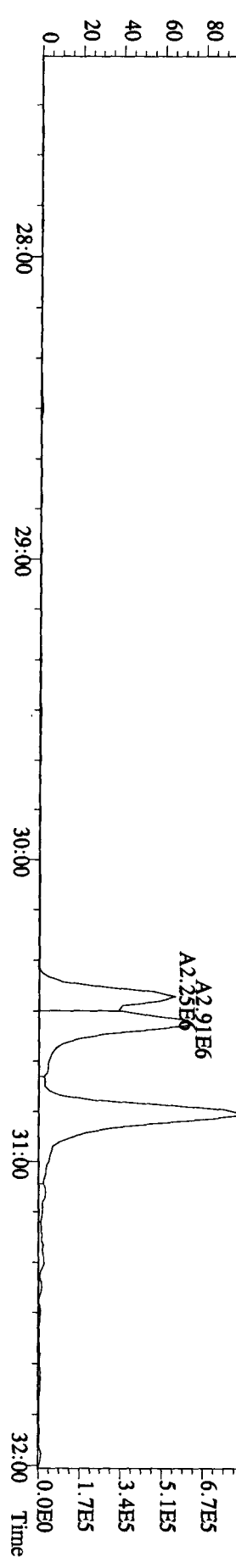
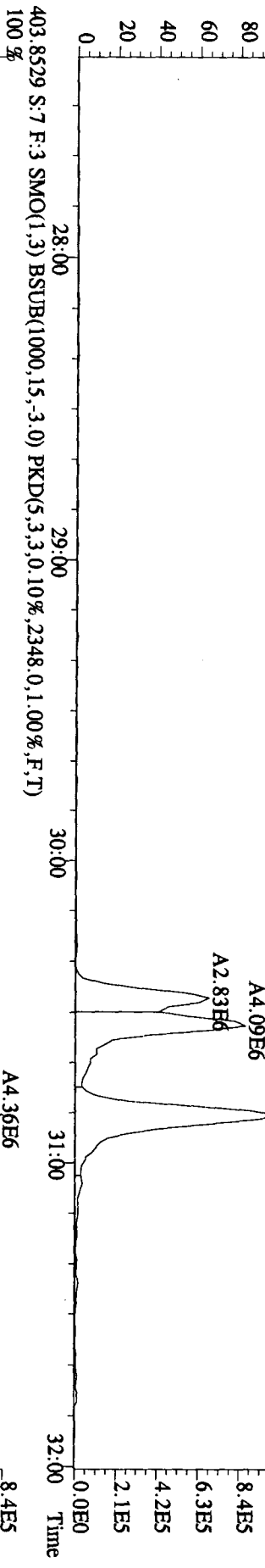
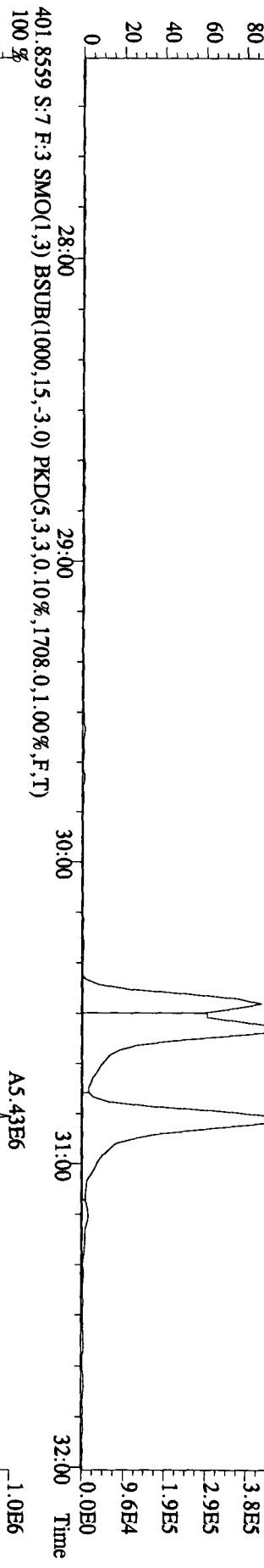
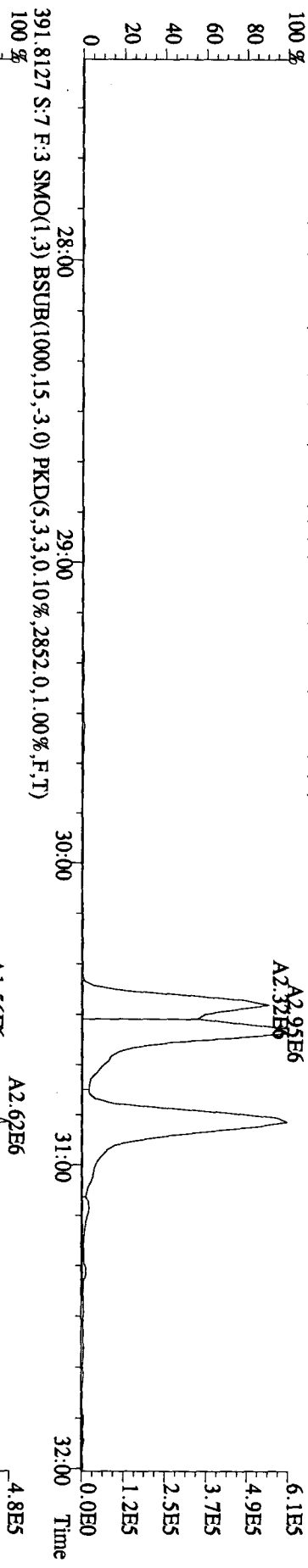
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7008,0,1,00%,F,T)



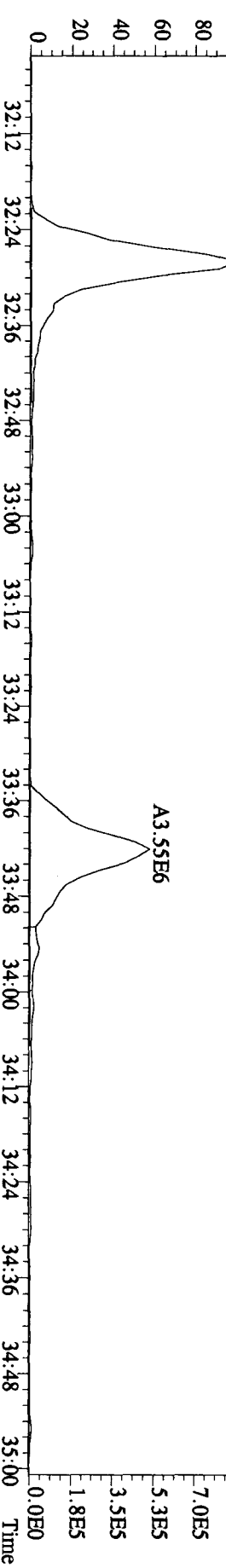
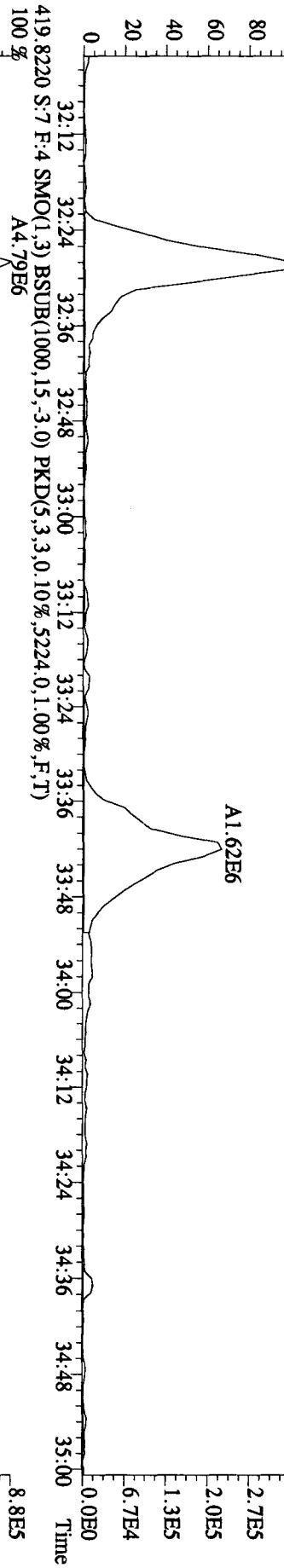
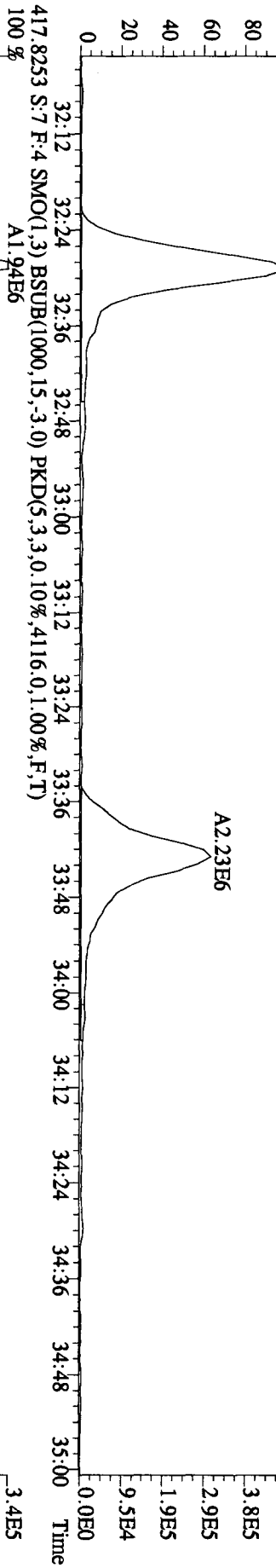
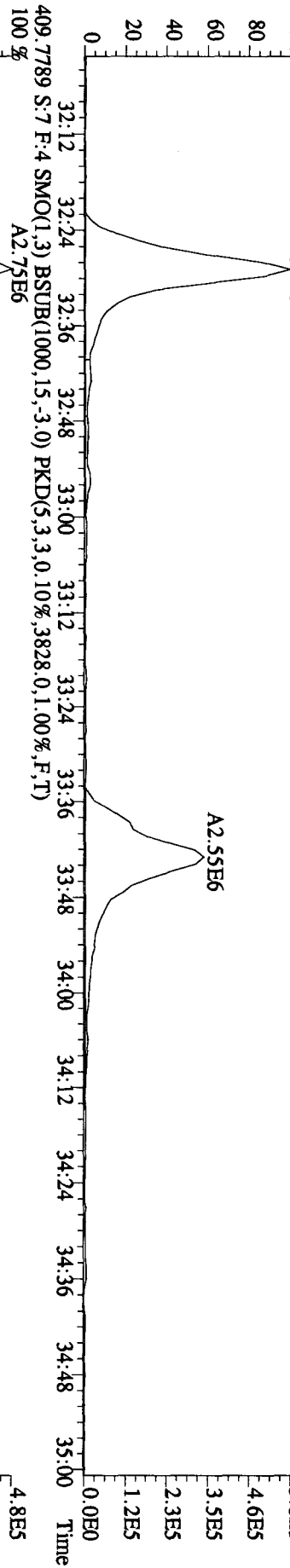
385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3776,0,1,00%,F,T)



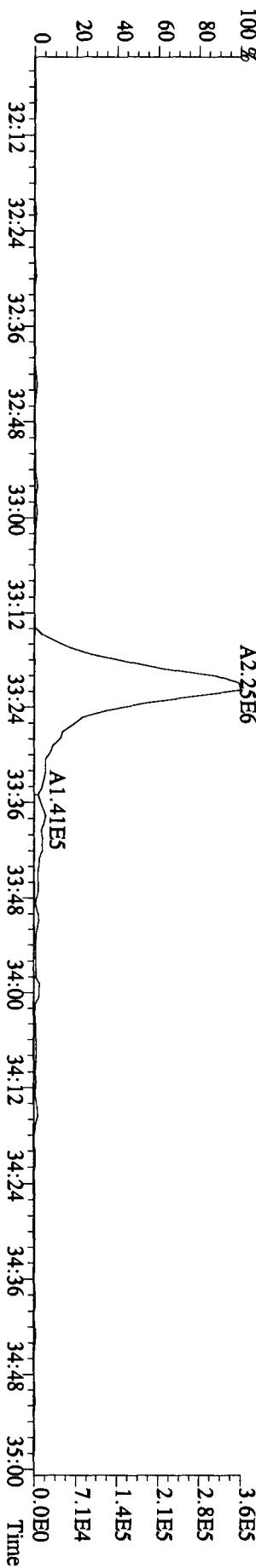
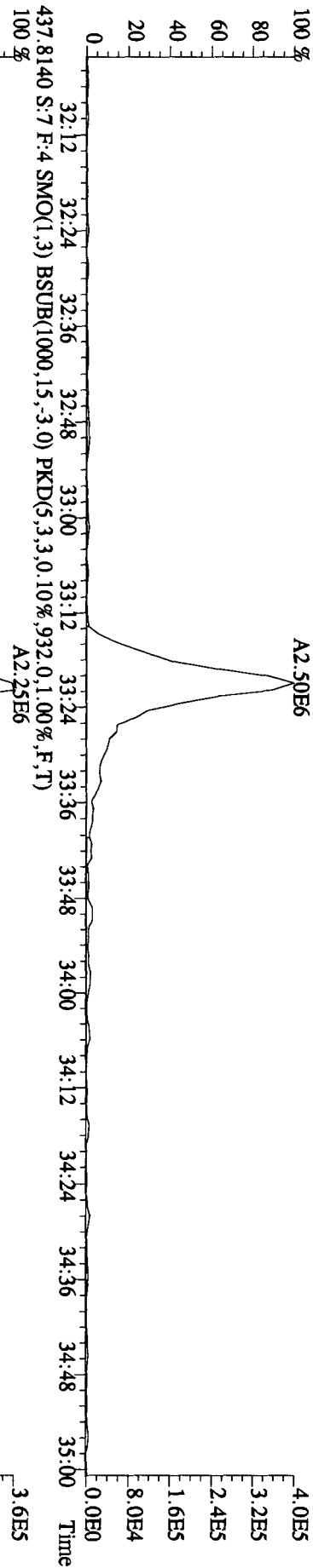
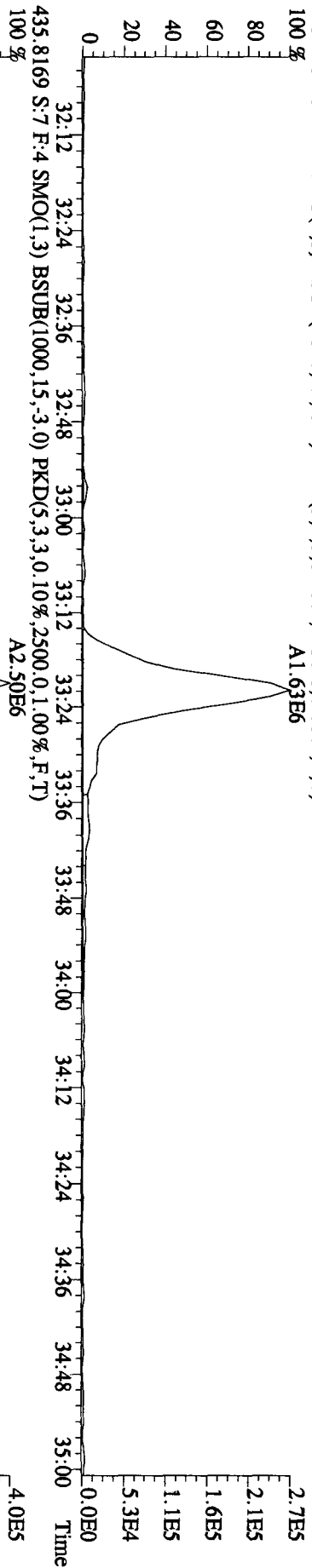
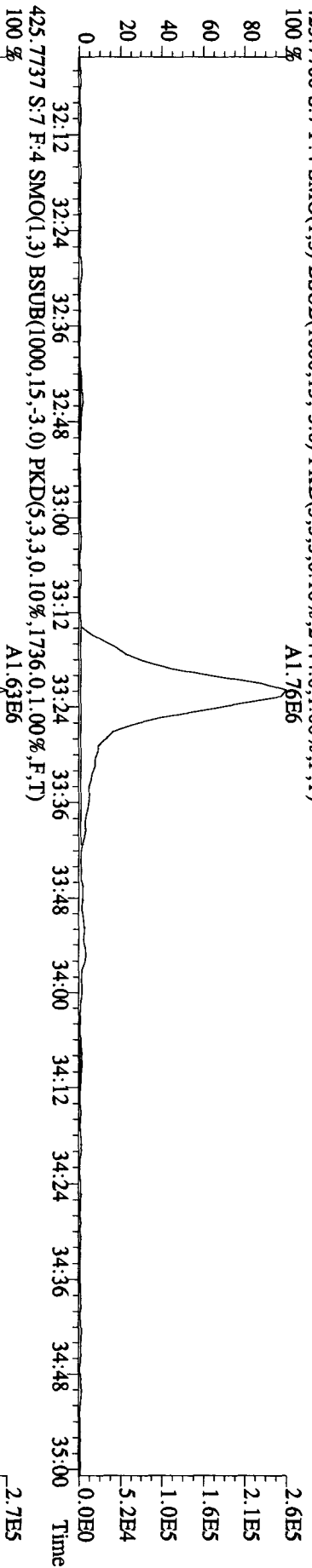
File: 04NO101D5 #1-301 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SFR 70SE
 Sample#7 Text: Air NS QC : 10DXN148 (5x) Exp: DIOXINRES
 389.8157 S: 7 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2324,0,1,00%,F,T)
 100%



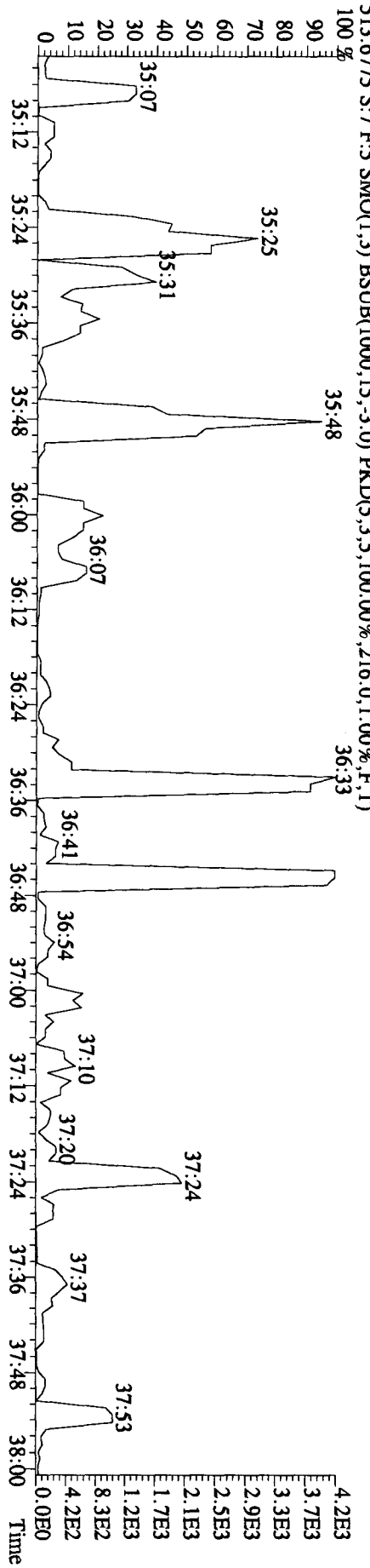
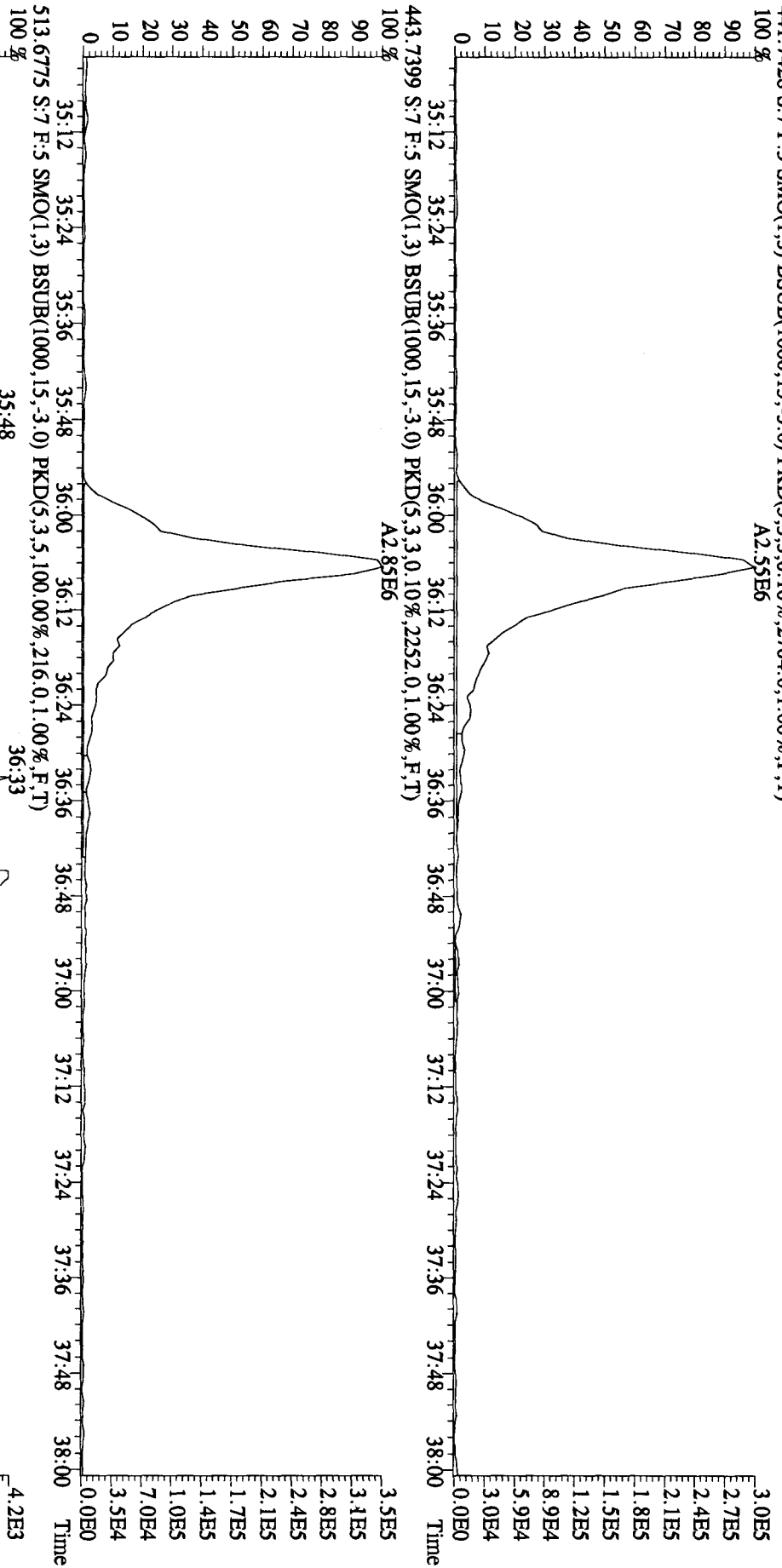
File: 04NO101D5 #1-203 Acq: 4-NOV-2010 14:16:13 GC: EI+ Voltage: SIR 70SE
 Sample#7 Text: Air NS OC :10DXN148 (5x) Exp: DIOXINRES
 407.7818 S:7 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4116,0,1,00%,F,T)
 100% A2.98E6



File: 04NO101D5 #1-203 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T)
 100% A1.76E6



File: 04NO101D5 #1-196 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2764,0,1,00%,F,T)
 A2.55E6



File:04NO101D5 #1-196 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE

Sample#7 Text: Air NS QC :10DXN148 (5x) Exp: DIOXINRES

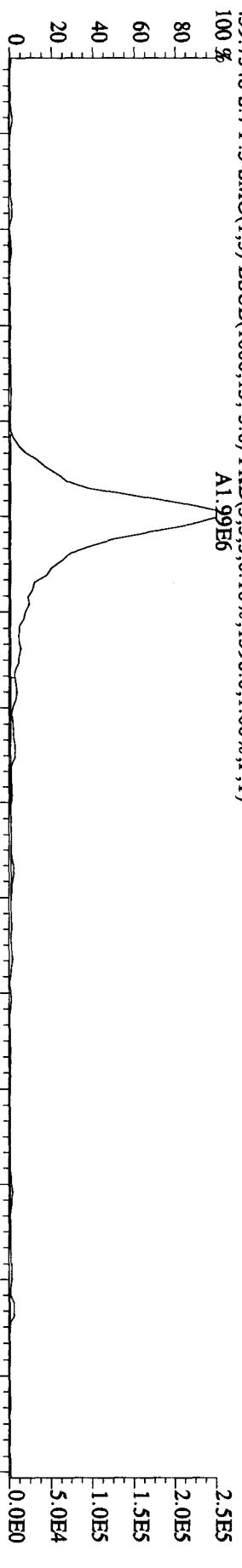
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1344,0,1,00%,F,T)

100% A1.70E6



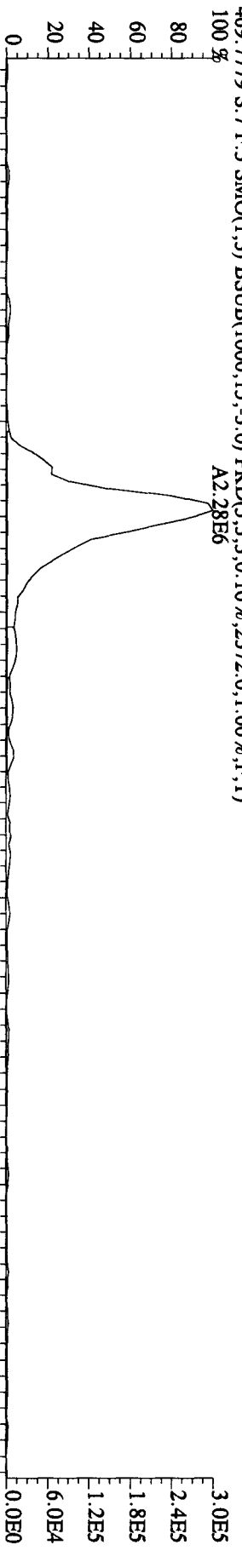
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1596,0,1,00%,F,T)

100% A1.99E6



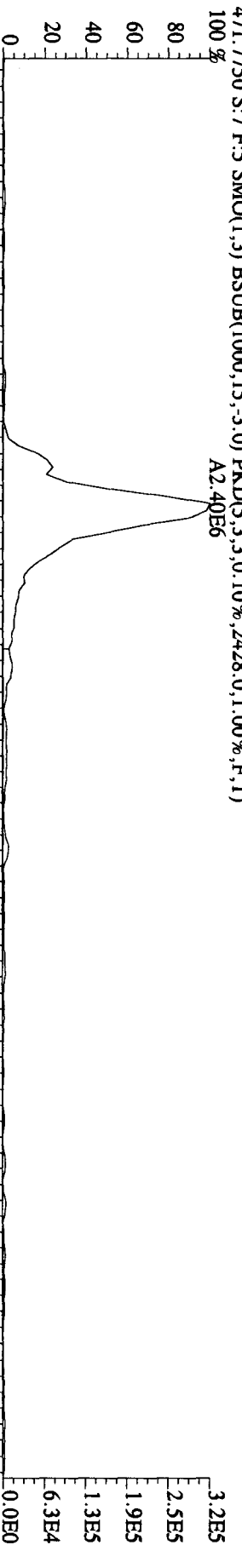
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2372,0,1,00%,F,T)

100% A2.28E6

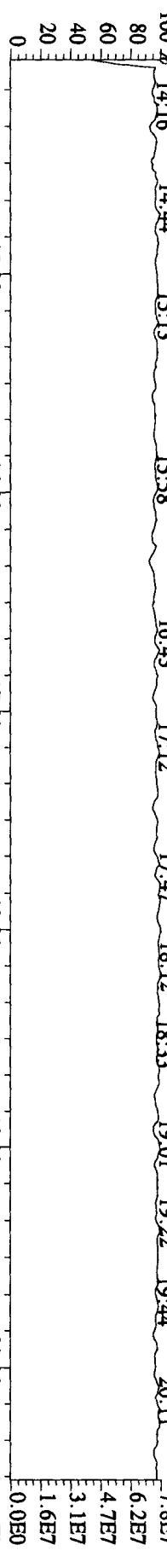


471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2428,0,1,00%,F,T)

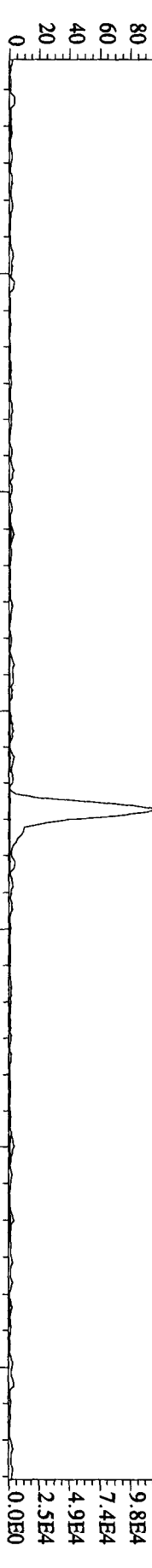
100% A2.40E6



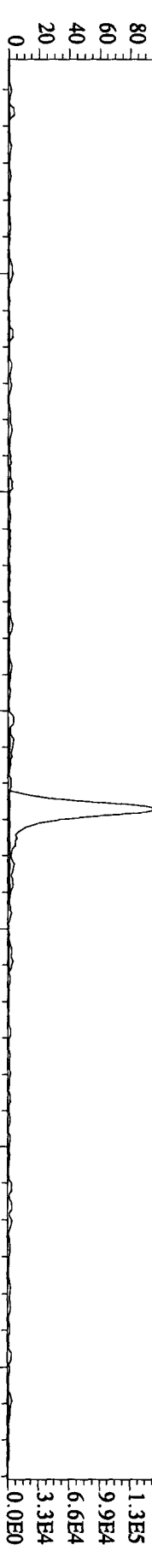
File:04NOI0101D5 #1-382 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS OC : 10DXN148 (5x) Exp: DIOXINRES
 292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0,0,1.00%,F,T)
 100% 14:16 14:44 15:13 15:58 16:43 17:12 17:47 18:12 18:33 19:01 19:22 19:44 20:11



303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1996,0.1,0.0%,F,T)
 100% 15:00 15:00 16:00 16:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00



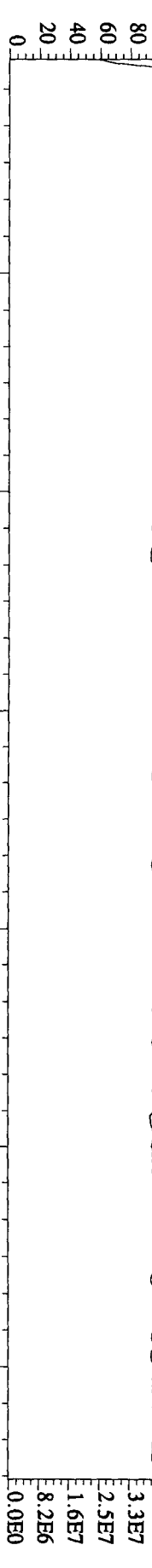
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2368,0.1,0.0%,F,T)
 100% 15:00 15:00 16:00 16:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00

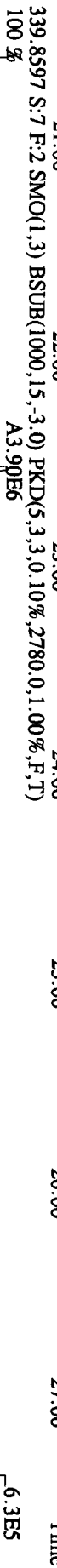
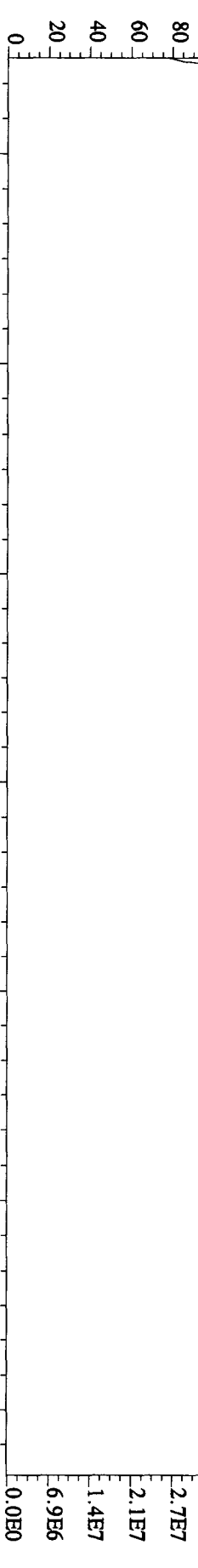


375.8364 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,208,0.1,0.0%,F,T)
 100% 14:23 14:23 15:00 15:00 16:00 16:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00

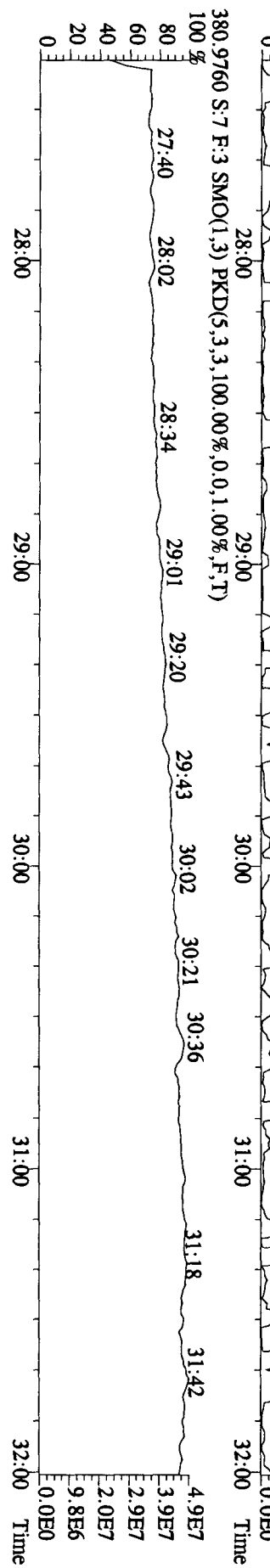
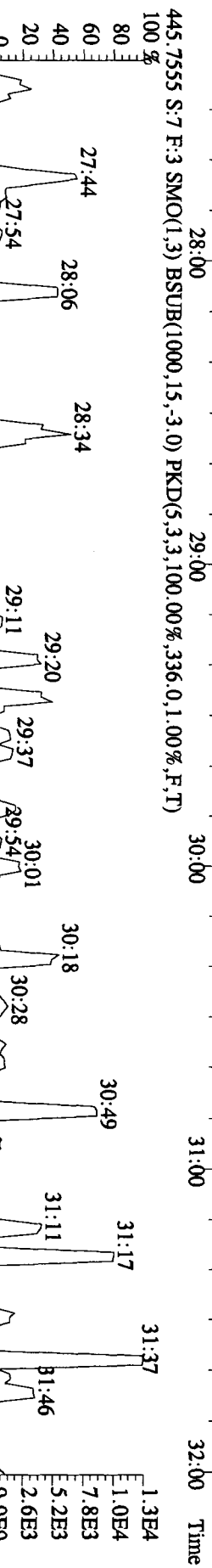
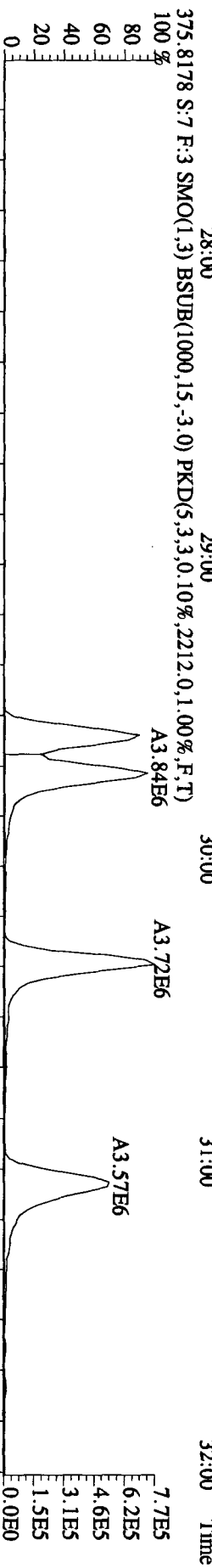
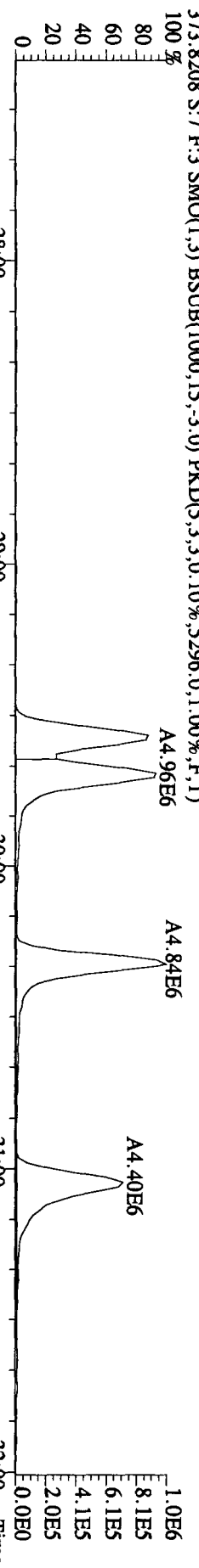
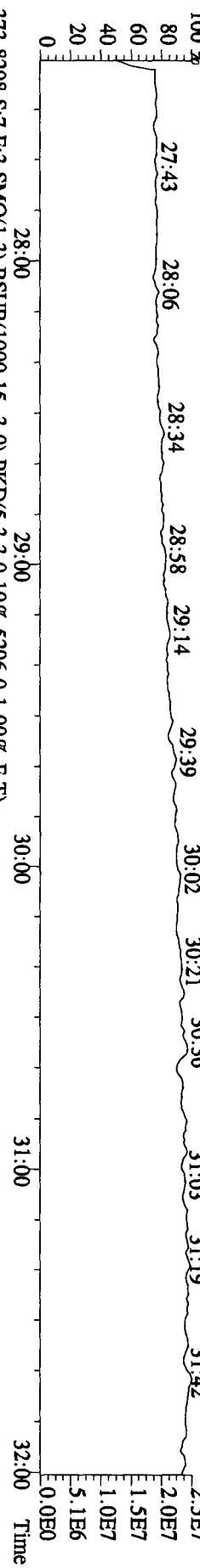


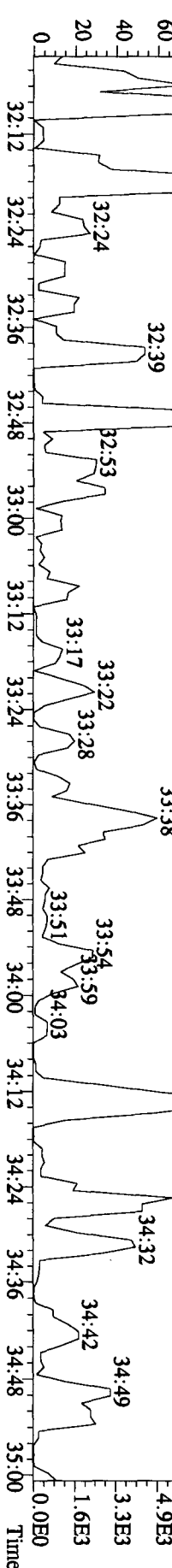
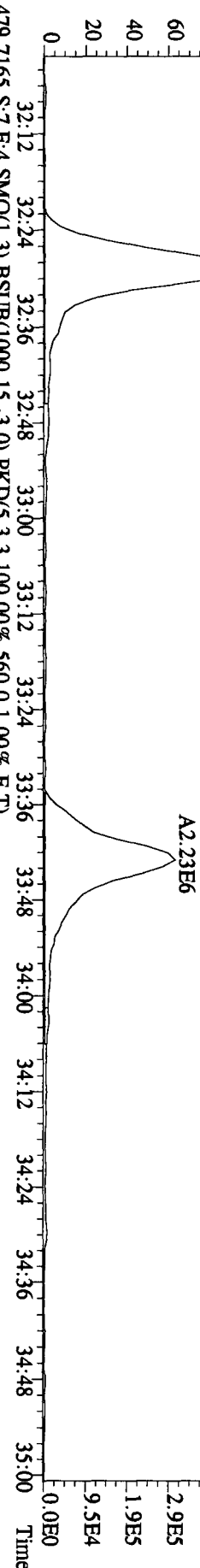
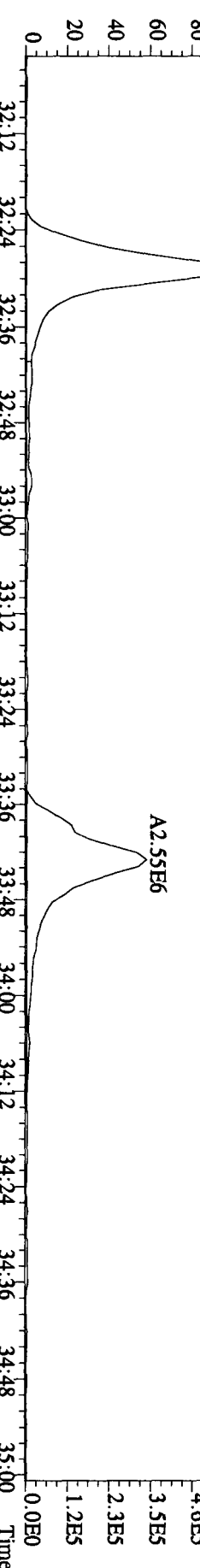
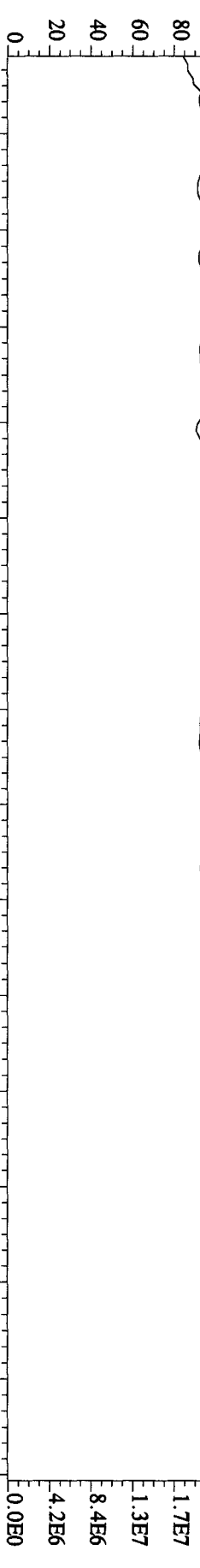
330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
 100% 14:15 14:15 14:52 14:52 15:31 15:31 16:02 16:02 16:26 16:26 17:00 17:00 17:30 17:30 17:59 17:59 18:19 18:19 18:49 18:49 19:00 19:00 19:22 19:22 19:47 19:47 20:09 20:09



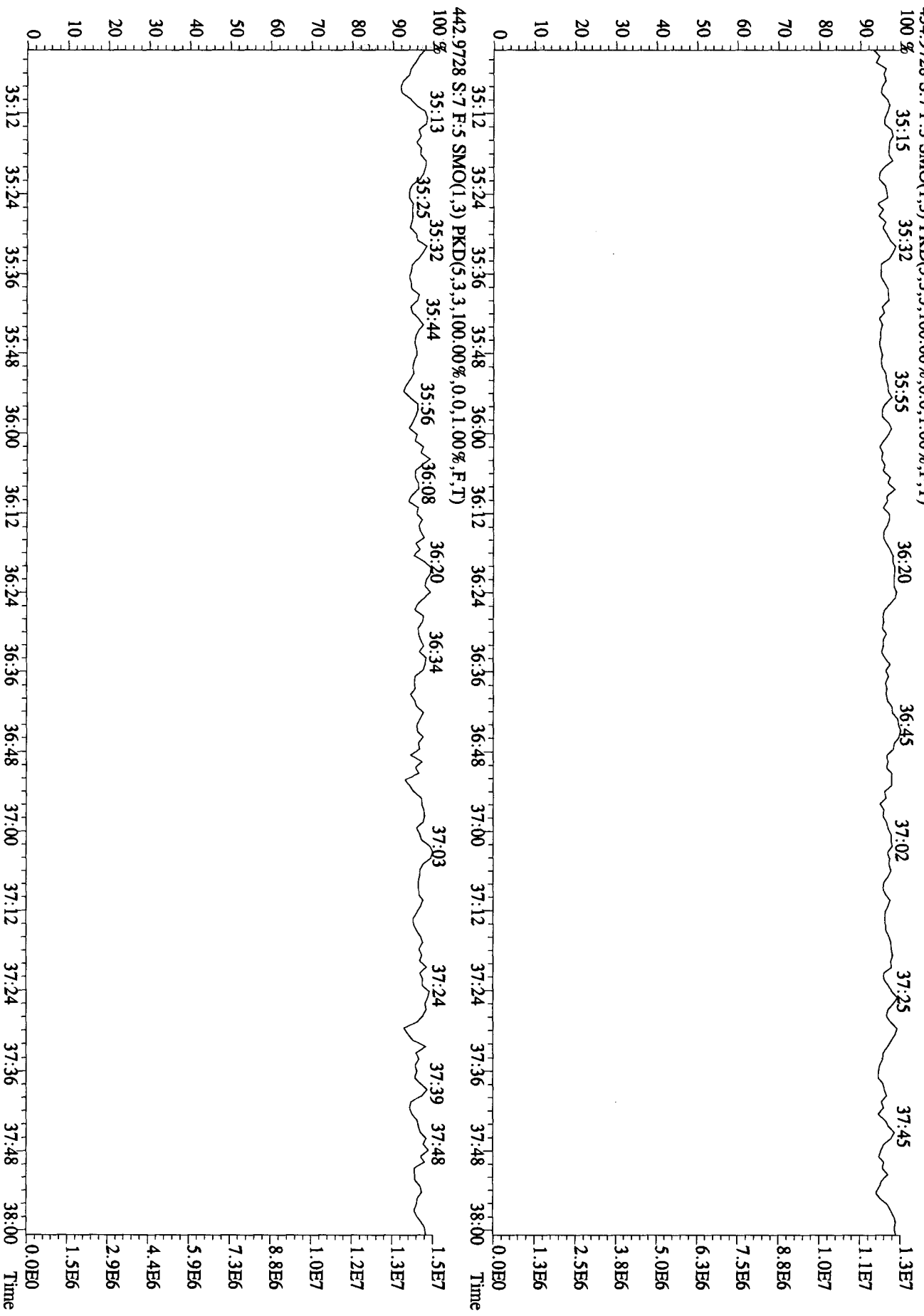


File: 04NOV101D5 #1-301 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS QC : 10DXN148 (5x) Exp: DIOXINRES
 392.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File: 04NNO101D5 #1-196 Acq: 4-NOV-2010 14:16:13 GC EI+ Voltage SIR 70SE
 Sample#7 Text: Air NS OC : 10DXN148 (5x) Exp: DIOXINRES
 454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 35:15 35:32 35:55 36:20 36:45 37:02 37:25 37:45



Run text: ST1104 File text: ST1104 :CS3 10DXN505
 Run #6 Filename 04NO101D5 S: 2 I: 1
 Acquired: 4-NOV-10 10:41:07 Processed: 4-NOV-10 14:33:27
 Run: 04NO101D5 Analyte: TO9 Cal: TO91029101D5 Results: 04NO101D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	73985100	0.77 y	17:56	-	100.00	-	n
13C-2,3,7,8-TCDF	131494200	0.79 y	17:25	1.78	100.00	12.9	n
2,3,7,8-TCDF	11523990	0.77 y	17:25	0.88	10.00	-0.1	n
Total TCDF	11847172	0.55 n	14:20	0.88	10.00	-0.1	n
13C-2,3,7,8-TCDD	74621000	0.78 y	18:07	1.01	100.00	1.9	n
2,3,7,8-TCDD	6813000	0.78 y	18:08	0.91	10.00	-2.9	n
Total TCDD	7220901	0.72 y	14:33	0.91	10.00	-2.9	n
37Cl-2,3,7,8-TCDD	9120880	1.00 y	18:08	1.22	10.00	3.8	n
13C-1,2,3,7,8-PeCDF	94634400	1.71 y	22:27	1.28	100.00	10.8	n
1,2,3,7,8-PeCDF	49732800	1.68 y	22:29	1.05	50.00	2.1	n
2,3,4,7,8-PeCDF	45513600	1.68 y	23:48	0.96	50.00	1.6	n
Total F2 PeCDF	96378531	1.08 n	21:09	1.01	100.00	1.9	n
Total F1 PeCDF	111474	1.94 n	14:29	1.01	100.00	1.9	n
13C-1,2,3,7,8-PeCDD	50707900	1.66 y	24:29	0.69	100.00	2.8	n
1,2,3,7,8-PeCDD	24501340	1.69 y	24:30	0.97	50.00	0.6	n
Total PeCDD	24501340	1.69 y	24:30	0.97	50.00	0.6	n
13C-1,2,3,7,8,9-HxCDD	69823400	1.31 y	30:49	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	98195200	0.52 y	29:31	1.41	100.00	22.5	n
1,2,3,4,7,8-HxCDF	61833600	1.28 y	29:33	1.26	50.00	3.3	n
1,2,3,6,7,8-HxCDF	68709600	1.31 y	29:41	1.40	50.00	-0.5	n
2,3,4,6,7,8-HxCDF	65610600	1.33 y	30:18	1.34	50.00	8.5	n
1,2,3,7,8,9-HxCDF	58356500	1.31 y	31:01	1.19	50.00	9.7	n
Total HxCDF	254877866	1.28 y	29:33	1.30	200.00	4.9	n
13C-1,2,3,6,7,8-HxCDD	67759800	1.19 y	30:31	0.97	100.00	1.2	n
1,2,3,4,7,8-HxCDD	32703800	1.32 y	30:27	0.97	50.00	8.8	n
1,2,3,6,7,8-HxCDD	42488600	1.34 y	30:32	1.25	50.00	19.6	n
1,2,3,7,8,9-HxCDD	38170800	1.31 y	30:50	1.13	50.00	12.1	n
Total HxCDD	113363200	1.32 y	30:27	1.12	150.00	13.8	n
13C-1,2,3,4,6,7,8-HpCDF	65303900	0.42 y	32:26	0.94	100.00	-5.0	n
1,2,3,4,6,7,8-HpCDF	47972900	1.06 y	32:27	1.47	50.00	10.3	n
1,2,3,4,7,8,9-HpCDF	40315600	1.08 y	33:40	1.23	50.00	10.3	n
Total HpCDF	88288500	1.06 y	32:27	1.35	100.00	10.3	n
13C-1,2,3,4,6,7,8-HpCDD	51293100	1.11 y	33:19	0.73	100.00	-10.9	n
1,2,3,4,6,7,8-HpCDD	27110200	1.05 y	33:20	1.06	50.00	0.9	n
Total HpCDD	27230212	0.80 n	32:44	1.06	50.00	0.9	n
13C-OCDD	58689800	0.88 y	35:57	0.42	200.00	-22.4	n
OCDF	50459900	0.92 y	36:04	1.72	100.00	8.8	n
OCDD	33111700	0.92 y	35:57	1.13	100.00	-0.4	n

Run text: ST1104A File text: CS3 10DXN505
 Run #10 Filename 04NO101D5 S: 13 I: 1
 Acquired: 4-NOV-10 18:33:16 Processed: 4-NOV-10 20:05:10
 Run: 04NO101D5 Analyte: TO9 Cal: TO91029101D5 Results: 04NO101D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	73004400	0.80 y	17:55	-	100.00	-	n
13C-2,3,7,8-TCDF	127719100	0.82 y	17:25	1.75	100.00	11.1	n
2,3,7,8-TCDF	11179010	0.76 y	17:26	0.88	10.00	-0.3	n
Total TCDF	11240733	0.16 n	16:39	0.88	10.00	-0.3	n
13C-2,3,7,8-TCDD	71070800	0.78 y	18:07	0.97	100.00	-1.6	n
2,3,7,8-TCDD	6460400	0.81 y	18:08	0.91	10.00	-3.3	n
Total TCDD	6528012	2.53 n	15:10	0.91	10.00	-3.3	n
37Cl-2,3,7,8-TCDD	7975960	1.00 y	18:08	1.12	10.00	-4.7	n
13C-1,2,3,7,8-PeCDF	94649300	1.74 y	22:28	1.30	100.00	12.3	n
1,2,3,7,8-PeCDF	50106900	1.65 y	22:29	1.06	50.00	2.9	n
2,3,4,7,8-PeCDF	45396400	1.65 y	23:49	0.96	50.00	1.3	n
Total F2 PeCDF	96083422	1.65 y	22:29	1.01	100.00	2.1	n
Total F1 PeCDF	38522	0.60 n	15:03	1.01	100.00	2.1	n
13C-1,2,3,7,8-PeCDD	47627500	1.68 y	24:31	0.65	100.00	-2.2	n
1,2,3,7,8-PeCDD	24037830	1.71 y	24:33	1.01	50.00	5.0	n
Total PeCDD	24062984	1.71 y	24:33	1.01	50.00	5.0	n
13C-1,2,3,7,8,9-HxCDD	67671500	1.34 y	30:50	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	94941700	0.52 y	29:33	1.40	100.00	22.2	n
1,2,3,4,7,8-HxCDF	61074000	1.28 y	29:34	1.29	50.00	5.5	n
1,2,3,6,7,8-HxCDF	71820600	1.31 y	29:41	1.51	50.00	7.5	n
2,3,4,6,7,8-HxCDF	67601000	1.30 y	30:20	1.42	50.00	15.6	n
1,2,3,7,8,9-HxCDF	58284900	1.30 y	31:02	1.23	50.00	13.3	n
Total HxCDF	258780500	1.28 y	29:34	1.36	200.00	10.3	n
13C-1,2,3,6,7,8-HxCDD	66357800	1.30 y	30:33	0.98	100.00	2.3	n
1,2,3,4,7,8-HxCDD	34915300	1.29 y	30:28	1.05	50.00	18.6	n
1,2,3,6,7,8-HxCDD	37962800	1.32 y	30:34	1.14	50.00	9.1	n
1,2,3,7,8,9-HxCDD	37849100	1.30 y	30:51	1.14	50.00	13.5	n
Total HxCDD	111101688	1.29 y	30:28	1.11	150.00	13.5	n
13C-1,2,3,4,6,7,8-HpCDF	64331300	0.41 y	32:27	0.95	100.00	-3.4	n
1,2,3,4,6,7,8-HpCDF	47898400	1.08 y	32:28	1.49	50.00	11.8	n
1,2,3,4,7,8,9-HpCDF	39793800	1.05 y	33:41	1.24	50.00	10.6	n
Total HpCDF	87692200	1.08 y	32:28	1.36	100.00	11.3	n
13C-1,2,3,4,6,7,8-HpCDD	49742700	1.11 y	33:20	0.74	100.00	-10.8	n
1,2,3,4,6,7,8-HpCDD	25921000	1.08 y	33:21	1.04	50.00	-0.6	n
Total HpCDD	26409537	5.37 n	32:27	1.04	50.00	-0.6	n
13C-OCDD	57974400	0.91 y	35:57	0.43	200.00	-20.9	n
OCDF	49450200	0.89 y	36:05	1.71	100.00	8.0	n
OCDD	32613600	0.89 y	35:58	1.13	100.00	-0.7	n

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

Instrument ID (Circle one): M01 <u>M02</u>		Method 6020 SOP SAC-MT-0001		
File Number 101101AZ	Batch Numbers 0302324, 0300271, 0294388, 0301292	Date 11/1/10	Analyst BRJ	
Lot Numbers G0J260480, G0J180500, G0J150622		YES	NO	NA
1. Copy of analysis protocol used included?		<input checked="" type="checkbox"/>		
2. ICVs & CCVs within 10% of true value or recal and rerun?		<input checked="" type="checkbox"/>		
3. ICB & CCBs < reporting limit or recal and rerun?		<input checked="" type="checkbox"/>		
4. 10 samples or less analyzed between calibration checks?		<input checked="" type="checkbox"/>		
5. All parameters within linear range?		<input checked="" type="checkbox"/>		
6. LCS/LCSD within limits?		<input checked="" type="checkbox"/>		
7. Prep blank value < reporting limit or all samples >20x blank?		<input checked="" 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"/>		
9. Appropriate dilution factors applied to data?		<input checked="" type="checkbox"/>		
10. Matrix spike and spike dup within customer defined limits?		<input checked="" type="checkbox"/>		
11. Each batch checked for presence of internal standard in samples?		<input checked="" type="checkbox"/>		
12. Anomalies entered using Clouseau?				

COMMENTS: run G0J180500 - 3, 5, 9, 11 @ 10x DIL, #7, 15 straight.

REVIEWED BY: MTZ	DATA ENTERED BY: BRJ
DATE: 11/3/10	DATE: 11/2/10

Dataset Report

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

User Name: metal
 Computer Name: SACP1223
 Dataset File Path: E:\elandata\Dataset\101101A2\
 Report Date/Time: Tuesday, November 02, 2010 07:15:18

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	10:05:16 Mon 01-Nov-10	Sample	
	AUTOLENS BJONES	10:08:19 Mon 01-Nov-10	Sample	Auto Lens Calib
	DAILY BJONES	10:11:44 Mon 01-Nov-10	Sample	
0302324	L84MW N.I.	13:26:10 Mon 01-Nov-10	Sample	G0J260480-2 N.I.
0300271	L8NPW N.I.	13:28:58 Mon 01-Nov-10	Sample	G0J180500-2 BH N.I.
	Rinse 2X	14:00:41 Mon 01-Nov-10	Sample	
	Blank	14:04:23 Mon 01-Nov-10	Blank	
	Standard 1	14:08:00 Mon 01-Nov-10	Standard #1	
	ICV	14:11:36 Mon 01-Nov-10	Sample	
	ICB	14:15:17 Mon 01-Nov-10	Sample	
	LLSTD1	14:28:00 Mon 01-Nov-10	Sample	LLSTD@10X <i>out 52th</i>
	LLSTD2	14:31:40 Mon 01-Nov-10	Sample	LLSTD@5X ✓
	ICSA	14:35:19 Mon 01-Nov-10	Sample	
	ICSAB	14:38:58 Mon 01-Nov-10	Sample	
	Rinse	15:06:48 Mon 01-Nov-10	Sample	
	CCV 1	15:14:11 Mon 01-Nov-10	Sample	
	CCB 1	15:17:51 Mon 01-Nov-10	Sample	<i>>Li >120%</i>
	CCV 2	15:21:33 Mon 01-Nov-10	Sample	
	CCB 2	15:25:13 Mon 01-Nov-10	Sample	
302324	L9A3TB	15:28:56 Mon 01-Nov-10	Sample	G0J290000-324 BLK
302324	L9A3TC	15:32:39 Mon 01-Nov-10	Sample	G0J290000-324 LCS
302324	L9A3TL	15:36:19 Mon 01-Nov-10	Sample	G0J290000-324 LCSD
302324	L84MW	15:39:58 Mon 01-Nov-10	Sample	G0J260480-2
302324	L84MWP5	15:43:38 Mon 01-Nov-10	Sample	G0J260480-2 5X
302324	L84MWZ	15:47:17 Mon 01-Nov-10	Sample	G0J260480-2 PS
302324	L84M3	15:50:56 Mon 01-Nov-10	Sample	G0J260480-4
302324	L84NW	15:54:35 Mon 01-Nov-10	Sample	G0J260480-11
302324	L84N2	15:58:15 Mon 01-Nov-10	Sample	G0J260480-12
302324	L84QX	16:01:55 Mon 01-Nov-10	Sample	G0J260480-15
	CCV 3	16:05:35 Mon 01-Nov-10	Sample	<i>out Be</i>
	CCB 3	16:09:17 Mon 01-Nov-10	Sample	
	CCV 4	16:12:59 Mon 01-Nov-10	Sample	
	CCB 4	16:16:40 Mon 01-Nov-10	Sample	
302324	L84Q2	16:20:21 Mon 01-Nov-10	Sample	G0J260480-16
302324	L84Q6	16:27:54 Mon 01-Nov-10	Sample	G0J260480-20
302324	L84RC	16:31:35 Mon 01-Nov-10	Sample	G0J260480-23
300271	L8584B	16:35:18 Mon 01-Nov-10	Sample	G0J270000-271 BLK
300271	L8584C	16:39:00 Mon 01-Nov-10	Sample	G0J270000-271 LCS
300271	L8584L	16:42:41 Mon 01-Nov-10	Sample	G0J270000-271 LCSD
300271	L8NPWS	16:46:23 Mon 01-Nov-10	Sample	G0J180500-2 MS
300271	L8NPWD	16:50:04 Mon 01-Nov-10	Sample	G0J180500-2 SD
300271	L8NPW	16:53:45 Mon 01-Nov-10	Sample	G0J180500-2
300271	L8NPWP5	16:57:26 Mon 01-Nov-10	Sample	G0J180500-2 5X
	CCV 5	17:01:07 Mon 01-Nov-10	Sample	
	CCB 5	17:04:48 Mon 01-Nov-10	Sample	
	CCV 6	17:08:29 Mon 01-Nov-10	Sample	
	CCB 6	17:12:10 Mon 01-Nov-10	Sample	

300271	L8NP0	17:15:51 Mon 01-Nov-10	Sample	G0J180500-4	
300271	L8NP3	17:19:34 Mon 01-Nov-10	Sample	G0J180500-6	
300271	L8NP6	17:23:17 Mon 01-Nov-10	Sample	G0J180500-8	
300271	L8NP8	17:26:58 Mon 01-Nov-10	Sample	G0J180500-10	
300271	L8NQA	17:30:37 Mon 01-Nov-10	Sample	G0J180500-12	
300271	L8NQE	17:34:16 Mon 01-Nov-10	Sample	G0J180500-14	
300271	L8NQG	17:37:56 Mon 01-Nov-10	Sample	G0J180500-16	
	CCV 7	17:41:36 Mon 01-Nov-10	Sample		
	CCB 7	17:45:17 Mon 01-Nov-10	Sample		
	CCV 8	17:48:58 Mon 01-Nov-10	Sample		
	CCB 8	17:52:38 Mon 01-Nov-10	Sample		
294388	L8WN6B	17:56:21 Mon 01-Nov-10	Sample	G0J210000-388 BLK	
294388	L8WN6C	18:00:04 Mon 01-Nov-10	Sample	G0J210000-388 LCS	
294388	L8WN6L	18:03:46 Mon 01-Nov-10	Sample	G0J210000-388 LCSD	
301292	L88E2B	18:07:29 Mon 01-Nov-10	Sample	G0J280000-292 BLK	
301292	L88E2C	18:11:12 Mon 01-Nov-10	Sample	G0J280000-292 LCS	
301292	L88E2L	18:14:55 Mon 01-Nov-10	Sample	G0J280000-292 LCSD	
	CCV 9	18:18:37 Mon 01-Nov-10	Sample		
	CCB 9	18:22:18 Mon 01-Nov-10	Sample		
294388	L8NPX	18:25:58 Mon 01-Nov-10	Sample	G0J180500-3	} DO NOT REPORT
294388	L8NP1	18:29:38 Mon 01-Nov-10	Sample	G0J180500-5	
294388	L8NP4	18:33:19 Mon 01-Nov-10	Sample	G0J180500-7	
294388	L8NP7	18:36:59 Mon 01-Nov-10	Sample	G0J180500-9	
294388	L8NP9	18:40:40 Mon 01-Nov-10	Sample	G0J180500-11	
294388	L8NQD	18:44:21 Mon 01-Nov-10	Sample	G0J180500-13	
294388	L8NQF	18:48:03 Mon 01-Nov-10	Sample	G0J180500-15	
	CCV 10	18:51:44 Mon 01-Nov-10	Sample	-out Ni, Se ⁶² ; Li, Ge < 90%.	
	CCB 10	18:55:25 Mon 01-Nov-10	Sample	-out Ni, As, Se; Li, Ge < 90%.	
	CCV 11	18:59:06 Mon 01-Nov-10	Sample	-out Ni	
	CCB 11	19:02:46 Mon 01-Nov-10	Sample	-out Se ⁶²	
294388	L8NPX	19:06:27 Mon 01-Nov-10	Sample	G0J180500-3	} DO NOT REPORT
294388	L8NP1	19:10:07 Mon 01-Nov-10	Sample	G0J180500-5	
294388	L8NP4	19:13:47 Mon 01-Nov-10	Sample	G0J180500-7	
294388	L8NP7	19:17:28 Mon 01-Nov-10	Sample	G0J180500-9	
294388	L8NP9	19:21:09 Mon 01-Nov-10	Sample	G0J180500-11	
294388	L8NQD	19:24:50 Mon 01-Nov-10	Sample	G0J180500-13	
294388	L8NQF	19:28:31 Mon 01-Nov-10	Sample	G0J180500-15	
	CCV 12	19:32:12 Mon 01-Nov-10	Sample		
	CCB 12	19:35:53 Mon 01-Nov-10	Sample		
	CCV 13	19:39:34 Mon 01-Nov-10	Sample		
	CCB 13	19:43:15 Mon 01-Nov-10	Sample		
294388	L8NPX	19:46:57 Mon 01-Nov-10	Sample	G0J180500-3 - NEED DIL Ni	} USE Se ⁷⁵ REFIN Ni
294388	L8NP1	19:50:40 Mon 01-Nov-10	Sample	G0J180500-5 - NEED DIL Ni	
294388	L8NP4	19:54:22 Mon 01-Nov-10	Sample	G0J180500-7	
294388	L8NP7	19:58:05 Mon 01-Nov-10	Sample	G0J180500-9 - NEED DIL Ni	
294388	L8NP9	20:01:47 Mon 01-Nov-10	Sample	G0J180500-11 - NEED DIL Ni	
294388	L8NQD	20:05:26 Mon 01-Nov-10	Sample	G0J180500-13 - NEED DIL Ni; use Cd ¹¹⁴	
294388	L8NQF	20:09:06 Mon 01-Nov-10	Sample	G0J180500-15 - use Se ⁷⁵ , Cd ¹¹⁴	
	CCV 14	20:12:48 Mon 01-Nov-10	Sample		
	CCB 14	20:16:31 Mon 01-Nov-10	Sample	-out Ni	
	CCV 15	20:20:15 Mon 01-Nov-10	Sample		
	CCB 15	20:23:59 Mon 01-Nov-10	Sample		
294388	L8NPX	20:27:42 Mon 01-Nov-10	Sample	G0J180500-3	} DO NOT REPORT
294388	L8NP1	20:31:25 Mon 01-Nov-10	Sample	G0J180500-5	
294388	L8NP4	20:35:08 Mon 01-Nov-10	Sample	G0J180500-7	
294388	L8NP7	20:38:51 Mon 01-Nov-10	Sample	G0J180500-9	
294388	L8NP9	20:42:33 Mon 01-Nov-10	Sample	G0J180500-11	
	CCV 16	20:46:13 Mon 01-Nov-10	Sample	-out Ge, In, Tm < 90%.	
	CCB 16	20:49:57 Mon 01-Nov-10	Sample	-out Se ⁷⁵ ; Ge, In < 90%.	
	CCV 17	20:53:41 Mon 01-Nov-10	Sample		

	CCB 17	20:57:25 Mon 01-Nov-10	Sample	
294388	L8NQD	21:01:07 Mon 01-Nov-10	Sample	G0J180500-13 } DO NOT REPORT
294388	L8NQF	21:04:47 Mon 01-Nov-10	Sample	G0J180500-15
294388	L8NPVS	21:08:27 Mon 01-Nov-10	Sample	G0J180500-1 MS } NEED DIL NI
294388	L8NPVD	21:12:07 Mon 01-Nov-10	Sample	G0J180500-1 SD } USE SE TO
294388	L8NPV	21:15:47 Mon 01-Nov-10	Sample	G0J180500-1 - NEED DIL NI } RETURN NI
294388	L8NPVP5	21:19:28 Mon 01-Nov-10	Sample	G0J180500-1 5X
	CCV 18	21:23:09 Mon 01-Nov-10	Sample	
	CCB 18	21:26:53 Mon 01-Nov-10	Sample	-OUT NI
	CCV 19	21:30:37 Mon 01-Nov-10	Sample	
	CCB 19	21:34:21 Mon 01-Nov-10	Sample	
301292	L8LC1	21:38:04 Mon 01-Nov-10	Sample	G0J150622-1
301292	L8LC1P5	21:41:45 Mon 01-Nov-10	Sample	G0J150622-1 5X
301292	L8LC1X	21:45:26 Mon 01-Nov-10	Sample	G0J150622-1 DU } DO NOT REPORT
301292	L8LC1Z	21:49:08 Mon 01-Nov-10	Sample	G0J150622-1 PS
301292	L8LC3	21:52:50 Mon 01-Nov-10	Sample	G0J150622-2
301292	L8LC4	21:56:33 Mon 01-Nov-10	Sample	G0J150622-3
	CCV 20	22:00:16 Mon 01-Nov-10	Sample	
	CCB 20	22:04:00 Mon 01-Nov-10	Sample	
	CCV 21	22:07:43 Mon 01-Nov-10	Sample	
	CCB 21	22:11:27 Mon 01-Nov-10	Sample	
301292	L8LC5	22:15:10 Mon 01-Nov-10	Sample	G0J150622-4
301292	L8LC6	22:18:54 Mon 01-Nov-10	Sample	G0J150622-5
301292	L8LC7	22:22:36 Mon 01-Nov-10	Sample	G0J150622-6
301292	L8LC8	22:26:16 Mon 01-Nov-10	Sample	G0J150622-7
301292	L8LC9	22:29:56 Mon 01-Nov-10	Sample	G0J150622-8
301292	L8LDC	22:33:36 Mon 01-Nov-10	Sample	G0J150622-9
301292	L8LDD	22:37:17 Mon 01-Nov-10	Sample	G0J150622-10
	CCV 22	22:40:58 Mon 01-Nov-10	Sample	
	CCB 22	22:44:42 Mon 01-Nov-10	Sample	
	CCV 23	22:48:26 Mon 01-Nov-10	Sample	
	CCB 23	22:52:09 Mon 01-Nov-10	Sample	
301292	L8LC1	22:55:52 Mon 01-Nov-10	Sample	G0J150622-1
301292	L8LC1P5	22:59:33 Mon 01-Nov-10	Sample	G0J150622-1 5X
301292	L8LC1X	23:03:15 Mon 01-Nov-10	Sample	G0J150622-1 DU
301292	L8LC1Z	23:06:57 Mon 01-Nov-10	Sample	G0J150622-1 PS
301292	L8LC3	23:10:38 Mon 01-Nov-10	Sample	G0J150622-2
301292	L8LC4	23:14:21 Mon 01-Nov-10	Sample	G0J150622-3
	CCV 24	23:18:04 Mon 01-Nov-10	Sample	
	CCB 24	23:21:48 Mon 01-Nov-10	Sample	
	CCV 25	23:25:32 Mon 01-Nov-10	Sample	
	CCB 25	23:29:16 Mon 01-Nov-10	Sample	
301292	L8LC5	23:32:59 Mon 01-Nov-10	Sample	G0J150622-4
301292	L8LC6	23:36:43 Mon 01-Nov-10	Sample	G0J150622-5
301292	L8LC7	23:40:25 Mon 01-Nov-10	Sample	G0J150622-6
301292	L8LC8	23:44:05 Mon 01-Nov-10	Sample	G0J150622-7
301292	L8LC9	23:47:45 Mon 01-Nov-10	Sample	G0J150622-8
301292	L8LDC	23:51:25 Mon 01-Nov-10	Sample	G0J150622-9
301292	L8LDD	23:55:06 Mon 01-Nov-10	Sample	G0J150622-10
	CCV 26	23:58:48 Mon 01-Nov-10	Sample	
	CCB 26	00:02:32 Tue 02-Nov-10	Sample	

TAL-W.Sacramento Elan 6000 ICPMS M02

Quantitative Method Report

File Name: 0302324.mth
File Path: E:\elandata\Method\0302324.mth

Timing Parameters

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

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	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
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	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
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	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
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	14.0 ms	700 ms
Se	77.917	Peak Hopping	1	14.0 ms	700 ms
Br	78.918	Peak Hopping	1	14.0 ms	700 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
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	82.914	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode: Dual
Measurement Units: Counts

Report Date/Time: Tuesday, November 02, 2010 07:15:34
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TAL-W.Sacramento Elan 6000 ICPMS M02

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
Ni	59.933	-0.005 * Ca 43
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00165 * 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

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			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	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				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
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			
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			
In	114.904	Linear Thru Zero	ug/L	ug/L				
207.977	207.977	Linear Thru Zero	ug/L	ug/L	100			

TAL-W.Sacramento Elan 6000 ICPMS M02

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	100
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100

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

AIR TOX Standards - 4 % HNO₃, 0.5 % HCl

Standards for run:

Tuning standard: 4075-18E

Internal standard: 4075-22C

Blank, CCBs: 3185-41C

Standard 1, CCVs: 4075-21E

ICV: 4075-20D

ICSA: 4075-20E

ICSAB: 4075-21A

File Number: 101101A2

Instrument Tuning Report

File Name: default.tun

Sample Information

Sample Date/Time: Monday, November 01, 2010 10:05:16

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1563	0.717	2039	
Be	9.012	9.079	2078	0.723	2030	
Mg	23.985	24.028	5720	0.731	2003	
Co	58.933	58.928	14261	0.740	1948	
In	114.904	114.929	27923	0.735	1930	
Ce	139.905	139.928	33992	0.729	1980	
Tl	204.975	204.979	49700	0.723	2186	
Pb	207.977	207.978	50437	0.710	2212	
U	238.050	238.076	57642	0.722	2364	

Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize

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

Sample Information

Sample Date/Time: Monday, November 01, 2010 10:05:16

Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.90
Lens Voltage	6.50
ICP RF Power	1100.00
Analog Stage Voltage	-2000.00
Pulse Stage Voltage	1350.00
Discriminator Threshold	70.00
AC Rod Offset	-7.00
Service DAC 1	60.00
Quadrupole Rod Offset	0.00

AutoLens Calibration

Date: 10:08:19 Mon 01-Nov-10
 Sample Filename: AUTOLENS BJONES.002
 Dataset Pathname: 101101A2\

 Lens Voltage Start: 5.00
 Lens Voltage End: 9.00
 Lens Voltage Step: 0.25
 Slope: 0.01886682
 Intercept: 5.85006078

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	6.0	4183.0	17
Co	58.933	7.0	157893.9	17
In	114.904	8.0	386185.6	17

Dual Detector Calibration

Date: 11:38:17 Tue 19-Oct-10
 Sample Filename: DUAL BJONES.1089
 Dataset Pathname: dual detector calibration\

 Points Acquired: 37
 Lens Vol Start: -3.00
 Lens Vol End: 15.00
 Lens Vol Step: 0.50

Analyte	Mass	Gain	N(max)
Li	6.015	10725.16	1167311586.054
Li	7.016	9993.34	1252794903.315
Be	9.012	9366.56	1336627979.898
B	11.009	9774.52	1280841540.836

Report Date/Time: Monday, November 01, 2010 10:11:24

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Na	22.990	9741.19	1285223071.665
Mg	23.985	9110.04	1374264583.870
Mg	24.986	8867.29	1411886452.344
Al	26.982	8453.79	1480946065.077
Si	27.977	8070.94	1551195955.725
P	30.994	7872.28	1590339951.037
K	38.964	7470.74	1675819106.659
Ca	42.959	7152.59	1750359264.351
Ca	43.956	7447.21	1681113768.239
Sc	44.956	7466.45	1676781595.186
V	50.944	7381.04	1696184913.457
Cr	51.941	7004.17	1787450640.726
Fe	53.940	6910.90	1811573220.816
Mn	54.938	6893.14	1816242143.539
Fe	56.935	6739.65	1857603897.686
Co	58.933	6579.45	1902834921.081
Ni	59.933	6444.17	1942781320.694
Cu	62.930	6251.49	2002660409.387
Cu	64.928	6170.17	2029053076.682
Zn	67.925	6264.47	1998508626.676
Ge	71.922	6360.77	1968252353.095
As	74.922	6372.05	1964768608.996
Se	77.917	6451.18	1940669470.937
Br	78.918	6326.69	1978855188.499
Se	81.917	6309.56	1984229407.755
Sr	87.906		
Mo	96.906	6396.94	1957124849.834
Ag	106.905	5800.60	2158327966.988
Ag	108.905	5770.48	2169594675.586
Cd	110.904	5816.92	2152274872.954
Cd	113.904	5834.48	2145794581.995
In	114.904	5842.30	2142923798.652
Sn	117.902	5893.31	2124374444.864
Sb	120.904	5903.74	2120622826.871
Ba	134.906	5748.84	2177762873.907
Ho	164.930		
Tm	168.934	5543.60	2258387962.531
Tl	204.975	5287.17	2367921819.494
Pb	207.977	5286.02	2368438776.153
U	238.050	5286.44	2368250879.912

Daily Performance Report

Sample ID: DAILY BJONES
 Sample Date/Time: Monday, November 01, 2010 10:11:44
 Sample Description:
 Sample File: E:\elandata\Sample\0293234XR.sam
 Method File: E:\elandata\Method\000daily.mth
 Dataset File: E:\elandata\Dataset\101101A2\DAILY BJONES.003
 Tuning File: e:\elandata\Tuning\default.tun
 Optimization File: E:\elandata\Optimize\default.dac
 Number of Replicates: 5
 Dual Detector Mode: Dual

Summary

Analyte	MassNet	Intens.	Mean	Net Intens.	RSD
Mg	24	49178.985			1.875
Rh	103	310460.058			0.597
Pb	208	205310.539			0.489
[> Ba	138	300643.956			0.519
[Ba++	69	0.026			3.026
[> Ce	140	380533.533			0.579
[CeO	156	0.023			3.002
Bkgd	220	3.429			47.507
Li	7	8284.632			2.046
Be	9	2935.903			1.655
Co	59	139995.830			1.244
In	115	389877.426			0.458
Tl	205	308040.990			0.656

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

Sample ID: L84MW N.I.

Sample Description: G0J260480-2 N.I.

Batch ID: 0302324

Sample Date/Time: Monday, November 01, 2010 13:26:10

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

Dataset File: E:\elandata\Dataset\101101A2\L84MW N.I..004

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

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

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			238.575	ug/L	0.000
45 Sc			6797.303	ug/L	0.000
69 Ga			5912.398	mg/L	0.000
72 Ge			1296.759	ug/L	0.000
89 Y			2656.579	ug/L	0.000
103 Rh			18.095	ug/L	0.000
115 In			605.202	ug/L	0.000
165 Ho			121.429	ug/L	0.000
169 Tm			408.581	ug/L	0.000
209 Bi			862.898	ug/L	0.000
133 Cs			1634.909	mg/L	0.000

Internal Standard Recoveries

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

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

Sample ID: L8NPW N.I.

Sample Description: G0J180500-2 BH N.I.

Batch ID: 0300271

Sample Date/Time: Monday, November 01, 2010 13:28:58

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

Dataset File: E:\elandata\Dataset\101101A2\L8NPW N.I..005

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

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

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			768.128	ug/L	0.000
45 Sc			11299.880	ug/L	0.000
69 Ga			10455.536	mg/L	0.000
72 Ge			62293.656	ug/L	0.000
89 Y			6273.117	ug/L	0.000
103 Rh			20.952	ug/L	0.000
115 In			859.066	ug/L	0.000
165 Ho			302.386	ug/L	0.000
169 Tm			784.320	ug/L	0.000
209 Bi			585.257	ug/L	0.000
133 Cs			2065.473	mg/L	0.000

Internal Standard Recoveries

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

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

Sample ID: Rinse 2X

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:00:41

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\Rinse 2X.006

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1539153.079	ug/L	1582273.521
>	6 Li-1			466451.274	ug/L	467322.454
|	9 Be	0.004676	59.653	1.667	ug/L	0.667
|	44 Ca	3.629468	31.792	28832.189	ug/L	28269.655
|	52 Cr	0.069613	44.023	21819.696	ug/L	21452.436
|	55 Mn	0.014038	38.273	3131.438	ug/L	2964.357
|	59 Co	0.000115	157.927	76.000	ug/L	75.667
|	60 Ni	0.002913	59.979	194.096	ug/L	189.756
|	75 As	0.215861	35.953	20878.023	ug/L	20612.597
|	82 Se	0.093284	184.925	2008.412	ug/L	2011.922
>	72 Ge-1			1682344.444	ug/L	1703877.412
|	111 Cd	0.002224	238.427	16.503	ug/L	12.393
|	121 Sb	0.000178	1037.901	176.002	ug/L	180.336
>	115 In-1			1480895.447	ug/L	1527761.699
|	208 Pb	0.003138	65.881	628.012	ug/L	547.342
>	169 Tm-1			1279167.971	ug/L	1289474.107
|	50 Cr	-0.117944	24.668	-212.162	ug/L	-189.284
|	53 Cr	4.516144	43.981	30243.779	ug/L	28860.853
|	61 Ni	0.955201	197.902	1672.282	ug/L	1658.272
|	76 Se	108.993764	59.171	-224390.647	ug/L	-229193.815
|	77 Se	2.295323	16.463	12356.060	ug/L	12108.393
|	78 Se	0.868642	78.919	22285.035	ug/L	22062.185
|	79 Br	1.829715	11.997	84550.731	ug/L	82827.334
>	72 Ge			1682344.444	ug/L	1703877.412
|	108 Cd	0.015334	424.675	7.187	ug/L	5.125
|	114 Cd	-0.000918	109.731	31.568	ug/L	37.059
>	115 In			1480895.447	ug/L	1527761.699
|	208 207.977	0.004036	64.605	336.676	ug/L	283.006
|	207 Pb	0.002775	41.427	130.335	ug/L	115.334
|	206 Pb	0.001763	193.539	161.002	ug/L	149.002
>	169 Tm			1279167.971	ug/L	1289474.107
|	106 Pd	0.014189	57.282	18.333	ug/L	15.667
|	83 Kr	42.253937	186.097	1435.495	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	99.814

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Sample ID: Rinse 2X

Be	9	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
As	75	
Se	82	
> Ge-1	72	98.736
Cd	111	
Sb	121	
> In-1	115	96.932
Pb	208	
> Tm-1	169	99.201
Cr	50	
Cr	53	
Ni	61	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	98.736
Cd	108	
Cd	114	
> In	115	96.932
207.977	208	
Pb	207	
Pb	206	
> Tm	169	99.201
Pd	106	
Kr	83	

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

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:04:23

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\Blank.007

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1582273.521	ug/L	
[> 6 Li-1			467322.454	ug/L	
[9 Be			0.667	ug/L	
[44 Ca			28269.655	ug/L	
| 52 Cr			21452.436	ug/L	
| 55 Mn			2964.357	ug/L	
| 59 Co			75.667	ug/L	
| 60 Ni			189.756	ug/L	
| 75 As			20612.597	ug/L	
| 82 Se			2011.922	ug/L	
[> 72 Ge-1			1703877.412	ug/L	
[111 Cd			12.393	ug/L	
| 121 Sb			180.336	ug/L	
[> 115 In-1			1527761.699	ug/L	
[208 Pb			547.342	ug/L	
[> 169 Tm-1			1289474.107	ug/L	
[50 Cr			-189.284	ug/L	
| 53 Cr			28860.853	ug/L	
| 61 Ni			1658.272	ug/L	
| 76 Se			-229193.815	ug/L	
| 77 Se			12108.393	ug/L	
| 78 Se			22062.185	ug/L	
| 79 Br			82827.334	ug/L	
[> 72 Ge			1703877.412	ug/L	
[108 Cd			5.125	ug/L	
| 114 Cd			37.059	ug/L	
[> 115 In			1527761.699	ug/L	
[208 207.977			283.006	ug/L	
| 207 Pb			115.334	ug/L	
| 206 Pb			149.002	ug/L	
[> 169 Tm			1289474.107	ug/L	
| 106 Pd			15.667	ug/L	
83 Kr			1445.498	ug/L	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	

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Sample ID: Blank

	Be	9
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	As	75
	Se	82
>	Ge-1	72
	Cd	111
	Sb	121
>	In-1	115
|	Pb	208
|>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Se	76
|	Se	77
|	Se	78
|	Br	79
|>	Ge	72
|	Cd	108
|	Cd	114
|>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
|>	Tm	169
|	Pd	106
|	Kr	83

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

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:08:00

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\Standard 1.008

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1522153.800	ug/L	1582273.521
[> 6 Li-1			482539.144	ug/L	467322.454
[9 Be	100.000000	1.527	22310.375	ug/L	0.667
[44 Ca	5100.000000	0.925	1295716.758	ug/L	28269.655
| 52 Cr	100.000000	0.701	918119.496	ug/L	21452.436
| 55 Mn	100.000000	1.250	1430798.540	ug/L	2964.357
| 59 Co	100.000000	0.636	1087098.204	ug/L	75.667
| 60 Ni	100.000000	0.951	228531.751	ug/L	189.756
| 75 As	100.000000	0.261	259663.948	ug/L	20612.597
| 82 Se	100.000000	1.326	25472.074	ug/L	2011.922
[> 72 Ge-1			1653297.235	ug/L	1703877.412
[111 Cd	100.000000	1.253	195361.561	ug/L	12.393
| 121 Sb	50.000000	1.209	337325.619	ug/L	180.336
[> 115 In-1			1439813.046	ug/L	1527761.699
[208 Pb	100.000000	0.859	2636836.014	ug/L	547.342
[> 169 Tm-1			1236247.275	ug/L	1289474.107
[50 Cr	100.000000	2.557	20830.619	ug/L	-189.284
| 53 Cr	100.000000	4.235	65875.880	ug/L	28860.853
| 61 Ni	100.000000	3.635	5213.643	ug/L	1658.272
| 76 Se	100.000000	109.402	-220665.750	ug/L	-229193.815
| 77 Se	100.000000	3.965	28898.551	ug/L	12108.393
| 78 Se	100.000000	0.787	78446.107	ug/L	22062.185
| 79 Br	100.000000	8.620	229270.983	ug/L	82827.334
[> 72 Ge			1653297.235	ug/L	1703877.412
[108 Cd	100.000000	1.883	14153.572	ug/L	5.125
| 114 Cd	100.000000	1.532	463013.460	ug/L	37.059
[> 115 In			1439813.046	ug/L	1527761.699
[208 207.977	100.000000	0.902	1348313.732	ug/L	283.006
| 207 Pb	100.000000	1.326	552039.078	ug/L	115.334
| 206 Pb	100.000000	0.743	736483.204	ug/L	149.002
[> 169 Tm			1236247.275	ug/L	1289474.107
| 106 Pd	100.000000	1.369	18809.093	ug/L	15.667
83 Kr	100.000000	64.681	1421.826	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	

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Sample ID: Standard 1

[Be	9
[Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	As	75
	Se	82
>	Ge-1	72
[Cd	111
	Sb	121
>	In-1	115
[	Pb	208
>	Tm-1	169
[	Cr	50
|	Cr	53
|	Ni	61
|	Se	76
|	Se	77
|	Se	78
|	Br	79
>	Ge	72
[	Cd	108
|	Cd	114
>	In	115
[	207.977	208
|	Pb	207
|	Pb	206
>	Tm	169
|	Pd	106
|	Kr	83

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

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:11:36

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\ICV .009

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

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

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1539637.775	ug/L	1582273.521
> 6 Li-1			501080.524	ug/L	467322.454
[9 Be	78.588188	0.686	18208.019	ug/L	0.667
[44 Ca	844.440685	1.577	239095.706	ug/L	28269.655
| 52 Cr	79.881952	0.706	742871.469	ug/L	21452.436
| 55 Mn	80.561173	1.231	1161451.839	ug/L	2964.357
| 59 Co	80.648393	0.247	883028.704	ug/L	75.667
| 60 Ni	79.656346	1.094	183360.294	ug/L	189.756
| 75 As	78.261275	1.114	209027.501	ug/L	20612.597
| 82 Se	77.050477	1.374	20215.641	ug/L	2011.922
> 72 Ge-1			1665096.543	ug/L	1703877.412
[111 Cd	79.543336	0.486	157840.918	ug/L	12.393
| 121 Sb	36.976832	2.303	253398.197	ug/L	180.336
> 115 In-1			1462417.769	ug/L	1527761.699
[208 Pb	82.020549	1.052	2174789.996	ug/L	547.342
> 169 Tm-1			1243104.133	ug/L	1289474.107
[50 Cr	69.098865	1.931	14438.613	ug/L	-189.284
| 53 Cr	74.551486	4.446	56644.702	ug/L	28860.853
| 61 Ni	76.168513	2.578	4386.231	ug/L	1658.272
| 76 Se	80.115245	75.334	-222582.559	ug/L	-229193.815
| 77 Se	70.985295	2.427	24093.899	ug/L	12108.393
| 78 Se	78.882228	1.856	66868.538	ug/L	22062.185
| 79 Br	-16.656638	8.615	55969.718	ug/L	82827.334
> 72 Ge			1665096.543	ug/L	1703877.412
[108 Cd	76.617591	0.929	11015.197	ug/L	5.125
| 114 Cd	78.887817	0.682	371018.929	ug/L	37.059
> 115 In			1462417.769	ug/L	1527761.699
[208 207.977	84.517058	1.234	1145900.237	ug/L	283.006
| 207 Pb	85.287491	1.136	473415.306	ug/L	115.334
| 206 Pb	75.001178	0.938	555474.452	ug/L	149.002
> 169 Tm			1243104.133	ug/L	1289474.107
| 106 Pd	80.368214	0.734	15119.608	ug/L	15.667
| 83 Kr	118.309466	126.890	1417.491	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	107.224

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Sample ID: ICV

[Be	9	
[Ca	44	
[Cr	52	
[Mn	55	
[Co	59	
[Ni	60	
[As	75	
[Se	82	
>	Ge-1	72	97.724
[Cd	111	
[Sb	121	
>	In-1	115	95.723
[	Pb	208	
>	Tm-1	169	96.404
[	Cr	50	
[	Cr	53	
[	Ni	61	
[	Se	76	
[	Se	77	
[	Se	78	
[	Br	79	
>	Ge	72	97.724
[	Cd	108	
[	Cd	114	
>	In	115	95.723
[	207.977	208	
[	Pb	207	
[	Pb	206	
>	Tm	169	96.404
[	Pd	106	
[	Kr	83	

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

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:15:17

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\ICB.010

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1530306.293	ug/L	1582273.521
[> 6 Li-1			481636.350	ug/L	467322.454
[9 Be	0.001409	11.547	1.000	ug/L	0.667
[44 Ca	5.895723	35.188	29359.239	ug/L	28269.655
| 52 Cr	0.300935	14.562	23895.794	ug/L	21452.436
| 55 Mn	0.002587	238.046	2959.355	ug/L	2964.357
| 59 Co	-0.000125	634.286	73.334	ug/L	75.667
| 60 Ni	-0.029240	2.156	119.279	ug/L	189.756
| 75 As	0.109744	174.400	20586.487	ug/L	20612.597
| 82 Se	-0.007846	529.167	1982.115	ug/L	2011.922
[> 72 Ge-1			1680201.912	ug/L	1703877.412
[111 Cd	0.002727	55.644	17.569	ug/L	12.393
| 121 Sb	0.307669	9.908	2322.093	ug/L	180.336
[> 115 In-1			1488528.893	ug/L	1527761.699
[208 Pb	0.001246	44.874	569.343	ug/L	547.342
[> 169 Tm-1			1262739.700	ug/L	1289474.107
[50 Cr	-0.070089	106.312	-201.636	ug/L	-189.284
| 53 Cr	-3.904473	23.859	26958.363	ug/L	28860.853
| 61 Ni	-5.242425	11.664	1443.125	ug/L	1658.272
| 76 Se	-213.168060	57.193	-229785.448	ug/L	-229193.815
| 77 Se	-6.720913	8.649	10767.708	ug/L	12108.393
| 78 Se	-0.311342	228.837	21568.890	ug/L	22062.185
| 79 Br	2.422049	18.795	85333.358	ug/L	82827.334
[> 72 Ge			1680201.912	ug/L	1703877.412
[108 Cd	0.006608	562.727	5.952	ug/L	5.125
| 114 Cd	0.003076	15.974	50.857	ug/L	37.059
[> 115 In			1488528.893	ug/L	1527761.699
[208 207.977	0.001440	39.055	297.007	ug/L	283.006
| 207 Pb	0.002405	73.071	126.335	ug/L	115.334
| 206 Pb	0.000021	2460.020	146.002	ug/L	149.002
[> 169 Tm			1262739.700	ug/L	1289474.107
| 106 Pd	-0.012416	123.718	13.333	ug/L	15.667
| 83 Kr	30.986346	335.958	1438.163	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	103.063

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Sample ID: ICB

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	98.610
	Cd	111	
	Sb	121	
|>	In-1	115	97.432
|	Pb	208	
|>	Tm-1	169	97.927
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	98.610
|	Cd	108	
|	Cd	114	
|>	In	115	97.432
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	97.927
|	Pd	106	
|	Kr	83	

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

Sample ID: LLSTD1

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:28:00

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\LLSTD1.011

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

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

Autosampler Position: 71

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1602377.473	ug/L	1582273.521
> 6 Li-1			493277.273	ug/L	467322.454
9 Be	1.012094	7.497	232.004	ug/L	0.667
44 Ca	64.464734	2.737	44701.793	ug/L	28269.655
52 Cr	1.399265	1.479	34326.344	ug/L	21452.436
55 Mn	1.069874	2.132	18671.019	ug/L	2964.357
59 Co	1.023300	0.783	11518.753	ug/L	75.667
60 Ni	0.984418	1.476	2501.574	ug/L	189.756
75 As	1.178006	17.917	23473.313	ug/L	20612.597
82 Se	0.875737	39.872	2219.120	ug/L	2011.922
> 72 Ge-1			1700637.984	ug/L	1703877.412
111 Cd	1.010645	2.736	2081.620	ug/L	12.393
121 Sb	0.504750	2.366	3745.769	ug/L	180.336
> 115 In-1			1509274.655	ug/L	1527761.699
208 Pb	1.036559	0.920	28547.775	ug/L	547.342
> 169 Tm-1			1267156.383	ug/L	1289474.107
50 Cr	1.451571	10.333	124.810	ug/L	-189.284
53 Cr	6.381714	5.385	31292.328	ug/L	28860.853
61 Ni	-3.795575	57.182	1514.506	ug/L	1658.272
76 Se	-174.180359	45.595	-231864.585	ug/L	-229193.815
77 Se	3.587443	20.887	12718.894	ug/L	12108.393
78 Se X	1.579484	31.755	22944.003	ug/L	22062.185
79 Br	6.110791	2.317	92033.593	ug/L	82827.334
> 72 Ge			1700637.984	ug/L	1703877.412
108 Cd	0.931032	6.831	143.113	ug/L	5.125
114 Cd	0.997300	3.082	4876.232	ug/L	37.059
> 115 In			1509274.655	ug/L	1527761.699
208 207.977	1.075696	1.295	15141.665	ug/L	283.006
207 Pb	1.062698	1.330	6124.613	ug/L	115.334
206 Pb	0.945316	0.933	7281.498	ug/L	149.002
> 169 Tm			1267156.383	ug/L	1289474.107
106 Pd	1.062448	9.716	215.337	ug/L	15.667
83 Kr	-50.703417	205.539	1457.500	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	105.554

Report Date/Time: Monday, November 01, 2010 14:57:12

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Sample ID: LLSTD1

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	99.810
	Cd	111	
	Sb	121	
|>	In-1	115	98.790
|	Pb	208	
|>	Tm-1	169	98.269
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	99.810
|	Cd	108	
|	Cd	114	
|>	In	115	98.790
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	98.269
|	Pd	106	
|	Kr	83	

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

Sample ID: LLSTD2

Sample Description: LLSTD@5X

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:31:40

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\LLSTD2.012

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

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

Autosampler Position: 72

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1568488.080	ug/L	1582273.521
[> 6 Li-1			490510.143	ug/L	467322.454
[9 Be	2.007983	5.222	455.683	ug/L	0.667
[44 Ca	116.819900	1.574	57781.141	ug/L	28269.655
[52 Cr	2.383140	1.351	43173.307	ug/L	21452.436
[55 Mn	2.057514	1.556	32998.672	ug/L	2964.357
[59 Co	2.058417	1.031	22965.699	ug/L	75.667
[60 Ni	2.010643	2.994	4884.843	ug/L	189.756
[75 As	2.212851	4.994	25888.781	ug/L	20612.597
[82 Se	2.018629	8.371	2482.693	ug/L	2011.922
[> 72 Ge-1			1691416.892	ug/L	1703877.412
[111 Cd	1.993698	2.827	4057.907	ug/L	12.393
[121 Sb	0.985270	2.360	7077.267	ug/L	180.336
[> 115 In-1			1495679.542	ug/L	1527761.699
[208 Pb	2.062462	1.868	55942.478	ug/L	547.342
[> 169 Tm-1			1259985.598	ug/L	1289474.107
[50 Cr	2.962389	9.988	449.346	ug/L	-189.284
[53 Cr	6.645621	11.299	31223.014	ug/L	28860.853
[61 Ni	-5.070522	36.168	1458.802	ug/L	1658.272
[76 Se	-90.967444	57.148	-229121.165	ug/L	-229193.815
[77 Se	6.150766	14.167	13098.096	ug/L	12108.393
[78 Se	2.652510	11.586	23447.693	ug/L	22062.185
[79 Br	10.353060	5.099	97994.675	ug/L	82827.334
[> 72 Ge			1691416.892	ug/L	1703877.412
[108 Cd	2.068404	0.555	309.047	ug/L	5.125
[114 Cd	2.004536	1.143	9677.077	ug/L	37.059
[> 115 In			1495679.542	ug/L	1527761.699
[208 207.977	2.136866	2.254	29629.487	ug/L	283.006
[207 Pb	2.144417	2.032	12173.633	ug/L	115.334
[206 Pb	1.864814	1.049	14139.358	ug/L	149.002
[> 169 Tm			1259985.598	ug/L	1289474.107
[106 Pd	2.064620	2.582	403.679	ug/L	15.667
[83 Kr	5.634206	2786.921	1444.164	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	104.962

|	Be	9	
|	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	As	75	
|	Se	82	
>	Ge-1	72	99.269
|	Cd	111	
|	Sb	121	
>	In-1	115	97.900
|	Pb	208	
>	Tm-1	169	97.713
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	99.269
|	Cd	108	
|	Cd	114	
>	In	115	97.900
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	97.713
|	Pd	106	
|	Kr	83	

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

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:35:19

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\ICSA .013

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

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

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1406660.880	ug/L	1582273.521
>	6 Li-1			511578.866	ug/L	467322.454
[	9 Be	0.071658	13.322	17.667	ug/L	0.667
[	44 Ca	95751.385678	0.794	22060358.314	ug/L	28269.655
[	52 Cr	3.939618	2.006	51976.425	ug/L	21452.436
[	55 Mn	6.460144	0.463	88030.368	ug/L	2964.357
[	59 Co	1.650784	1.012	16674.151	ug/L	75.667
[	60 Ni	0.949906	9.130	2177.136	ug/L	189.756
[	75 As	0.807403	17.007	20301.587	ug/L	20612.597
[	82 Se	0.290416	708.827	1868.064	ug/L	2011.922
>	72 Ge-1			1529999.085	ug/L	1703877.412
[	111 Cd	0.835334	7.998	1496.006	ug/L	12.393
[	121 Sb	0.244324	1.516	1654.548	ug/L	180.336
>	115 In-1			1310761.516	ug/L	1527761.699
[	208 Pb	0.457062	1.851	11351.621	ug/L	547.342
>	169 Tm-1			1116148.947	ug/L	1289474.107
[	50 Cr	309.474168	2.221	60019.087	ug/L	-189.284
[	53 Cr	2.598236	48.003	26823.703	ug/L	28860.853
[	61 Ni	17.923378	18.241	2086.960	ug/L	1658.272
[	76 Se	-293.416128	7.056	-210498.065	ug/L	-229193.815
[	77 Se	17.881023	13.859	13707.997	ug/L	12108.393
[	78 Se	3.744042	8.486	21786.359	ug/L	22062.185
[	79 Br	10468.729109	12.835	14495828.187	ug/L	82827.334
>	72 Ge			1529999.085	ug/L	1703877.412
[	108 Cd	48.855128	2.031	6297.192	ug/L	5.125
[	114 Cd	3.438231	0.981	14523.585	ug/L	37.059
>	115 In			1310761.516	ug/L	1527761.699
[	208 207.977	0.470721	1.764	5973.803	ug/L	283.006
[	207 Pb	0.459088	5.161	2386.781	ug/L	115.334
[	206 Pb	0.430538	2.337	2991.036	ug/L	149.002
>	169 Tm			1116148.947	ug/L	1289474.107
[	106 Pd	1.199025	6.292	241.005	ug/L	15.667
[	83 Kr	-1228.190705	16.475	1736.237	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	109.470

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Sample ID: ICSA

[Be	9	
[Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	89.795
[Cd	111	
	Sb	121	
>	In-1	115	85.796
[	Pb	208	
>	Tm-1	169	86.558
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	89.795
[	Cd	108	
|	Cd	114	
>	In	115	85.796
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	86.558
|	Pd	106	
|	Kr	83	

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

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 14:38:58

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\ICSAB.014

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

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

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1421472.479	ug/L	1582273.521
> 6 Li-1			537373.671	ug/L	467322.454
[9 Be	88.369104	1.154	21958.166	ug/L	0.667
[44 Ca	94358.065000	0.703	22312804.911	ug/L	28269.655
| 52 Cr	98.285410	0.274	857388.380	ug/L	21452.436
| 55 Mn	101.805976	0.690	1383456.735	ug/L	2964.357
| 59 Co	95.154392	0.670	982465.850	ug/L	75.667
| 60 Ni	91.763751	0.825	199185.662	ug/L	189.756
| 75 As	103.351503	0.987	254240.955	ug/L	20612.597
| 82 Se	105.659998	0.704	25456.947	ug/L	2011.922
> 72 Ge-1			1570245.897	ug/L	1703877.412
[111 Cd	94.985971	0.551	169399.381	ug/L	12.393
| 121 Sb	49.823470	0.950	306843.339	ug/L	180.336
> 115 In-1			1314337.612	ug/L	1527761.699
[208 Pb	95.302065	0.465	2262722.613	ug/L	547.342
> 169 Tm-1			1113109.759	ug/L	1289474.107
[50 Cr	377.785034	3.748	75237.125	ug/L	-189.284
| 53 Cr	96.415017	1.349	61275.088	ug/L	28860.853
| 61 Ni	107.548471	2.128	5209.966	ug/L	1658.272
| 76 Se	-23.835131	355.814	-211614.204	ug/L	-229193.815
| 77 Se	127.704805	0.330	31956.737	ug/L	12108.393
| 78 Se	109.638249	2.042	79725.175	ug/L	22062.185
| 79 Br	235.070739	39.268	409228.002	ug/L	82827.334
> 72 Ge			1570245.897	ug/L	1703877.412
[108 Cd	138.653495	1.302	17912.067	ug/L	5.125
| 114 Cd	97.070136	0.510	410292.158	ug/L	37.059
> 115 In			1314337.612	ug/L	1527761.699
[208 207.977	95.838835	0.823	1163522.141	ug/L	283.006
| 207 Pb	94.358052	0.523	469030.607	ug/L	115.334
| 206 Pb	95.026978	0.393	630169.865	ug/L	149.002
> 169 Tm			1113109.759	ug/L	1289474.107
| 106 Pd	88.200706	0.392	16591.601	ug/L	15.667
| 83 Kr	-976.068561	9.913	1676.554	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	114.990

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Sample ID: ICSAB

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	92.157
	Cd	111	
	Sb	121	
|>	In-1	115	86.030
|	Pb	208	
|>	Tm-1	169	86.323
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	92.157
|	Cd	108	
|	Cd	114	
|>	In	115	86.030
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	86.323
|	Pd	106	
|	Kr	83	

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

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:06:48

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\Rinse.015

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

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

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1664990.538	ug/L	1582273.521
> 6 Li-1			581928.744	ug/L	467322.454
9 Be	0.000671	560.622	1.000	ug/L	0.667
44 Ca	0.322867	689.761	29946.974	ug/L	28269.655
52 Cr	0.028684	269.131	22942.652	ug/L	21452.436
55 Mn	-0.069850	5.731	2045.662	ug/L	2964.357
59 Co	-0.001823	42.544	58.334	ug/L	75.667
60 Ni	-0.040674	24.433	99.367	ug/L	189.756
75 As	0.376940	45.925	22755.408	ug/L	20612.597
82 Se	0.187992	107.326	2173.235	ug/L	2011.922
> 72 Ge-1			1799901.837	ug/L	1703877.412
111 Cd	0.000402	811.102	12.986	ug/L	12.393
121 Sb	0.002187	79.939	192.670	ug/L	180.336
> 115 In-1			1502342.966	ug/L	1527761.699
208 Pb	0.001074	195.731	576.010	ug/L	547.342
> 169 Tm-1			1287219.535	ug/L	1289474.107
50 Cr	-0.048921	130.153	-211.132	ug/L	-189.284
53 Cr	1.456869	207.925	31085.347	ug/L	28860.853
61 Ni	-5.598235	9.317	1532.183	ug/L	1658.272
76 Se	-75.297593	208.770	-243547.248	ug/L	-229193.815
77 Se	-2.643203	32.690	12296.310	ug/L	12108.393
78 Se	1.417866	60.690	24182.413	ug/L	22062.185
79 Br	5.248701	17.066	95998.562	ug/L	82827.334
> 72 Ge			1799901.837	ug/L	1703877.412
108 Cd	-0.028668	135.667	0.829	ug/L	5.125
114 Cd	0.000292	158.521	37.843	ug/L	37.059
> 115 In			1502342.966	ug/L	1527761.699
208 207.977	0.001456	147.743	303.007	ug/L	283.006
207 Pb	0.001711	96.866	125.001	ug/L	115.334
206 Pb	-0.000104	2466.949	148.002	ug/L	149.002
> 169 Tm			1287219.535	ug/L	1289474.107
106 Pd	-0.026605	57.735	10.667	ug/L	15.667
83 Kr	-394.366424	14.547	1538.853	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	124.524

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Sample ID: Rinse

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	105.636
	Cd	111	
	Sb	121	
>	In-1	115	98.336
|	Pb	208	
>	Tm-1	169	99.825
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	105.636
|	Cd	108	
|	Cd	114	
>	In	115	98.336
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	99.825
|	Pd	106	
|	Kr	83	

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

Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:14:11

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 1.016

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1621367.934	ug/L	1582273.521
> 6 Li-1			607177.657	ug/L	467322.454
9 Be	94.038375	1.991	26404.690	ug/L	0.667
44 Ca	5169.437698	1.920	1390101.700	ug/L	28269.655
52 Cr	94.445202	2.915	919140.033	ug/L	21452.436
55 Mn	93.550242	2.643	1417228.600	ug/L	2964.357
59 Co	94.097843	1.476	1083125.821	ug/L	75.667
60 Ni	94.983165	1.285	229857.961	ug/L	189.756
75 As	98.000231	1.896	269849.599	ug/L	20612.597
82 Se	97.123885	1.978	26254.778	ug/L	2011.922
> 72 Ge-1			1750941.374	ug/L	1703877.412
111 Cd	96.675718	1.296	190488.415	ug/L	12.393
121 Sb	48.982204	0.885	333299.871	ug/L	180.336
> 115 In-1			1452202.549	ug/L	1527761.699
208 Pb	97.439771	1.035	2667779.959	ug/L	547.342
> 169 Tm-1			1283746.348	ug/L	1289474.107
50 Cr	98.757181	5.494	21789.570	ug/L	-189.284
53 Cr	86.715272	2.301	64425.189	ug/L	28860.853
61 Ni	93.518237	1.615	5274.116	ug/L	1658.272
76 Se	133.251499	65.775	-233106.364	ug/L	-229193.815
77 Se	90.364779	2.415	28859.110	ug/L	12108.393
78 Se	98.658523	2.887	82247.913	ug/L	22062.185
79 Br	38.040878	22.524	145321.783	ug/L	82827.334
> 72 Ge			1750941.374	ug/L	1703877.412
108 Cd	96.010930	1.404	13705.531	ug/L	5.125
114 Cd	96.552121	1.490	450868.851	ug/L	37.059
> 115 In			1452202.549	ug/L	1527761.699
208 207.977	98.003999	1.067	1372036.603	ug/L	283.006
207 Pb	97.530647	1.182	559041.831	ug/L	115.334
206 Pb	96.338682	1.017	736701.525	ug/L	149.002
> 169 Tm			1283746.348	ug/L	1289474.107
106 Pd	97.893865	2.417	18413.278	ug/L	15.667
83 Kr	-176.055889	124.037	1487.174	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	129.927

Report Date/Time: Monday, November 01, 2010 15:15:38

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Sample ID: CCV 1

[Be	9	
[Ca	44	
[Cr	52	
[Mn	55	
[Co	59	
[Ni	60	
[As	75	
[Se	82	
>	Ge-1	72	102.762
[Cd	111	
[Sb	121	
>	In-1	115	95.054
[	Pb	208	
>	Tm-1	169	99.556
[	Cr	50	
[	Cr	53	
[	Ni	61	
[	Se	76	
[	Se	77	
[	Se	78	
[	Br	79	
>	Ge	72	102.762
[	Cd	108	
[	Cd	114	
>	In	115	95.054
[	207.977	208	
[	Pb	207	
[	Pb	206	
>	Tm	169	99.556
[	Pd	106	
[	Kr	83	

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

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:17:51

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 1.017

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1576461.541	ug/L	1582273.521
[> 6 Li-1			602295.472	ug/L	467322.454
[9 Be	0.007719	81.291	3.000	ug/L	0.667
[44 Ca	-3.422847	31.229	28364.421	ug/L	28269.655
[52 Cr	-0.019065	123.806	22031.414	ug/L	21452.436
[55 Mn	-0.030840	13.045	2599.531	ug/L	2964.357
[59 Co	0.000289	168.639	81.667	ug/L	75.667
[60 Ni	-0.034122	11.298	113.383	ug/L	189.756
[75 As	0.122194	161.550	21656.423	ug/L	20612.597
[82 Se	-0.250287	69.906	2020.461	ug/L	2011.922
[> 72 Ge-1			1764252.756	ug/L	1703877.412
[111 Cd	0.001859	136.610	15.179	ug/L	12.393
[121 Sb	0.007795	23.226	220.670	ug/L	180.336
[> 115 In-1			1427963.646	ug/L	1527761.699
[208 Pb	0.002421	54.532	601.344	ug/L	547.342
[> 169 Tm-1			1262607.009	ug/L	1289474.107
[50 Cr	0.005316	886.898	-194.824	ug/L	-189.284
[53 Cr	-5.664142	19.811	27597.281	ug/L	28860.853
[61 Ni	-7.638646	38.117	1423.114	ug/L	1658.272
[76 Se	-132.647190	48.435	-239767.441	ug/L	-229193.815
[77 Se	-9.205462	12.477	10852.475	ug/L	12108.393
[78 Se	0.454098	83.761	23118.961	ug/L	22062.185
[79 Br	5.194891	5.408	94019.717	ug/L	82827.334
[> 72 Ge			1764252.756	ug/L	1703877.412
[108 Cd	0.008517	395.655	5.989	ug/L	5.125
[114 Cd	0.003129	39.837	49.007	ug/L	37.059
[> 115 In			1427963.646	ug/L	1527761.699
[208 207.977	0.002518	95.949	312.008	ug/L	283.006
[207 Pb	0.003570	39.451	133.001	ug/L	115.334
[206 Pb	0.001381	171.073	156.335	ug/L	149.002
[> 169 Tm			1262607.009	ug/L	1289474.107
[106 Pd	-0.039021	39.365	8.333	ug/L	15.667
[83 Kr	-118.309184	150.440	1473.504	ug/L	1445.498

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	128.892

Report Date/Time: Monday, November 01, 2010 15:19:20

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Sample ID: CCB 1

Be	9	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
As	75	
Se	82	
Ge-1	72	103.543
Cd	111	
Sb	121	
In-1	115	93.468
Pb	208	
Tm-1	169	97.916
Cr	50	
Cr	53	
Ni	61	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	103.543
Cd	108	
Cd	114	
In	115	93.468
207.977	208	
Pb	207	
Pb	206	
Tm	169	97.916
Pd	106	
Kr	83	

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

Sample ID: BLK RECAL

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:17:51

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 1.017

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1576461.541	ug/L	
[>	6 Li-1			602295.472	ug/L	
[	9 Be			3.000	ug/L	
[	44 Ca			28364.421	ug/L	
|	52 Cr			22031.414	ug/L	
|	55 Mn			2599.531	ug/L	
|	59 Co			81.667	ug/L	
|	60 Ni			113.383	ug/L	
|	75 As			21656.423	ug/L	
|	82 Se			2020.461	ug/L	
[>	72 Ge-1			1764252.756	ug/L	
[	111 Cd			15.179	ug/L	
|	121 Sb			220.670	ug/L	
[>	115 In-1			1427963.646	ug/L	
[	208 Pb			601.344	ug/L	
[>	169 Tm-1			1262607.009	ug/L	
[	50 Cr			-194.824	ug/L	
|	53 Cr			27597.281	ug/L	
|	61 Ni			1423.114	ug/L	
|	76 Se			-239767.441	ug/L	
|	77 Se			10852.475	ug/L	
|	78 Se			23118.961	ug/L	
|	79 Br			94019.717	ug/L	
[>	72 Ge			1764252.756	ug/L	
[	108 Cd			5.989	ug/L	
|	114 Cd			49.007	ug/L	
[>	115 In			1427963.646	ug/L	
[	208 207.977			312.008	ug/L	
|	207 Pb			133.001	ug/L	
|	206 Pb			156.335	ug/L	
[>	169 Tm			1262607.009	ug/L	
|	106 Pd			8.333	ug/L	
	83 Kr			1473.504	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
[>	Li-1	6	

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Sample ID: BLK RECAL

	Be	9
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	As	75
	Se	82
>	Ge-1	72
	Cd	111
	Sb	121
|>	In-1	115
|	Pb	208
|>	Tm-1	169
|	Cr	50
|	Cr	53
|	Ni	61
|	Se	76
|	Se	77
|	Se	78
|	Br	79
|>	Ge	72
|	Cd	108
|	Cd	114
|>	In	115
|	207.977	208
|	Pb	207
|	Pb	206
|>	Tm	169
|	Pd	106
|	Kr	83

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

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:14:11

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 1.016

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1621367.934	ug/L	1576461.541
> 6 Li-1			607177.657	ug/L	602295.472
[9 Be	100.000000	1.991	26404.690	ug/L	3.000
[44 Ca	5100.000000	1.918	1390101.700	ug/L	28364.421
[52 Cr	100.000000	2.914	919140.033	ug/L	22031.414
[55 Mn	100.000000	2.643	1417228.600	ug/L	2599.531
[59 Co	100.000000	1.476	1083125.821	ug/L	81.667
[60 Ni	100.000000	1.285	229857.961	ug/L	113.383
[75 As	100.000000	1.898	269849.599	ug/L	21656.423
[82 Se	100.000000	1.973	26254.778	ug/L	2020.461
> 72 Ge-1			1750941.374	ug/L	1764252.756
[111 Cd	100.000000	1.296	190488.415	ug/L	15.179
[121 Sb	50.000000	0.885	333299.871	ug/L	220.670
> 115 In-1			1452202.549	ug/L	1427963.646
[208 Pb	100.000000	1.035	2667779.959	ug/L	601.344
> 169 Tm-1			1283746.348	ug/L	1262607.009
[50 Cr	100.000000	5.494	21789.570	ug/L	-194.824
[53 Cr	100.000000	2.160	64425.189	ug/L	27597.281
[61 Ni	100.000000	1.493	5274.116	ug/L	1423.114
[76 Se	100.000000	32.929	-233106.364	ug/L	-239767.441
[77 Se	100.000000	2.192	28859.110	ug/L	10852.475
[78 Se	100.000000	2.901	82247.913	ug/L	23118.961
[79 Br	100.000000	26.086	145321.783	ug/L	94019.717
> 72 Ge			1750941.374	ug/L	1764252.756
[108 Cd	100.000000	1.404	13705.531	ug/L	5.989
[114 Cd	100.000000	1.490	450868.851	ug/L	49.007
> 115 In			1452202.549	ug/L	1427963.646
[208 207.977	100.000000	1.067	1372036.603	ug/L	312.008
[207 Pb	100.000000	1.182	559041.831	ug/L	133.001
[206 Pb	100.000000	1.017	736701.525	ug/L	156.335
> 169 Tm			1283746.348	ug/L	1262607.009
[106 Pd	100.000000	2.417	18413.278	ug/L	8.333
[83 Kr	100.000000	378.158	1487.174	ug/L	1473.504

Internal Standard Recoveries.

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	

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Sample ID: STD1 RECAL

[Be	9
[Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	As	75
	Se	82
[>	Ge-1	72
[Cd	111
	Sb	121
[>	In-1	115
[	Pb	208
[>	Tm-1	169
[	Cr	50
|	Cr	53
|	Ni	61
|	Se	76
|	Se	77
|	Se	78
|	Br	79
[>	Ge	72
[	Cd	108
|	Cd	114
[>	In	115
[	207.977	208
|	Pb	207
|	Pb	206
[>	Tm	169
|	Pd	106
|	Kr	83

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

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:21:33

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 2.018

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1537393.328	ug/L	1576461.541
[>	6 Li-1			609751.886	ug/L	602295.472
[	9 Be	96.815669	1.608	25665.654	ug/L	3.000
[	44 Ca	5023.262048	0.431	1343657.430	ug/L	28364.421
[	52 Cr	97.909425	0.740	883543.349	ug/L	22031.414
[	55 Mn	100.316596	1.104	1394861.785	ug/L	2599.531
[	59 Co	100.419201	0.792	1067057.322	ug/L	81.667
[	60 Ni	101.451592	0.286	228754.278	ug/L	113.383
[	75 As	100.194149	0.935	265198.315	ug/L	21656.423
[	82 Se	97.314813	1.161	25117.441	ug/L	2020.461
[>	72 Ge-1			1717301.559	ug/L	1764252.756
[	111 Cd	101.164364	0.485	185893.158	ug/L	15.179
[	121 Sb	51.081927	1.011	328432.142	ug/L	220.670
[>	115 In-1			1400732.582	ug/L	1427963.646
[	208 Pb	101.719494	1.573	2629594.631	ug/L	601.344
[>	169 Tm-1			1243837.228	ug/L	1262607.009
[	50 Cr	98.132348	4.897	20957.154	ug/L	-194.824
[	53 Cr	95.316258	4.175	61507.545	ug/L	27597.281
[	61 Ni	98.137440	2.324	5102.725	ug/L	1423.114
[	76 Se	51.344352	88.639	-230924.500	ug/L	-239767.441
[	77 Se	96.303281	1.984	27644.313	ug/L	10852.475
[	78 Se	98.844308	1.416	80020.856	ug/L	23118.961
[	79 Br	59.188550	32.906	121680.979	ug/L	94019.717
[>	72 Ge			1717301.559	ug/L	1764252.756
[	108 Cd	98.340288	2.415	13000.445	ug/L	5.989
[	114 Cd	101.641447	1.724	442065.394	ug/L	49.007
[>	115 In			1400732.582	ug/L	1427963.646
[	208 207.977	101.464955	2.120	1349016.277	ug/L	312.008
[	207 Pb	101.129139	1.511	547846.293	ug/L	133.001
[	206 Pb	102.641530	0.704	732732.061	ug/L	156.335
[>	169 Tm			1243837.228	ug/L	1262607.009
[	106 Pd	94.867323	1.022	17468.612	ug/L	8.333
[	83 Kr	102.438948	356.164	1487.507	ug/L	1473.504

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
[>	Li-1	6	101.238

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Sample ID: CCV 2

L	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	97.339
	Cd	111	
	Sb	121	
>	In-1	115	98.093
|	Pb	208	
>	Tm-1	169	98.513
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	97.339
|	Cd	108	
|	Cd	114	
>	In	115	98.093
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	98.513
|	Pd	106	
|	Kr	83	

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

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 15:25:13

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 2.019

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1589757.920	ug/L	1576461.541
> 6 Li-1			615566.154	ug/L	602295.472
9 Be	-0.003861	197.154	2.000	ug/L	3.000
44 Ca	-0.433683	693.836	27407.898	ug/L	28364.421
52 Cr	0.050973	173.509	21821.354	ug/L	22031.414
55 Mn	-0.001767	227.557	2498.491	ug/L	2599.531
59 Co	0.000795	40.364	87.667	ug/L	81.667
60 Ni	0.007223	11.141	126.273	ug/L	113.383
75 As	0.273811	139.130	21671.694	ug/L	21656.423
82 Se	0.231295	132.723	2015.022	ug/L	2020.461
> 72 Ge-1			1712662.821	ug/L	1764252.756
111 Cd	0.001799	59.744	18.295	ug/L	15.179
121 Sb	-0.000459	272.151	214.337	ug/L	220.670
> 115 In-1			1406814.551	ug/L	1427963.646
208 Pb	0.000462	293.960	599.345	ug/L	601.344
> 169 Tm-1			1233640.789	ug/L	1262607.009
50 Cr	0.188184	149.289	-149.105	ug/L	-194.824
53 Cr	-0.029420	1818.899	26776.866	ug/L	27597.281
61 Ni	0.238673	152.077	1390.759	ug/L	1423.114
76 Se	7.500306	977.905	-232458.691	ug/L	-239767.441
77 Se	-1.446726	50.348	10277.474	ug/L	10852.475
78 Se	0.388128	259.211	22657.601	ug/L	23118.961
79 Br	0.803169	342.203	91658.525	ug/L	94019.717
> 72 Ge			1712662.821	ug/L	1764252.756
108 Cd	-0.026764	9.307	2.347	ug/L	5.989
114 Cd	0.001336	75.928	54.114	ug/L	49.007
> 115 In			1406814.551	ug/L	1427963.646
208 207.977	0.001300	169.150	322.008	ug/L	312.008
207 Pb	-0.000602	225.704	126.668	ug/L	133.001
206 Pb	-0.000290	592.589	150.668	ug/L	156.335
> 169 Tm			1233640.789	ug/L	1262607.009
106 Pd	0.012678	65.465	10.667	ug/L	8.333
83 Kr	-434.141341	112.164	1414.157	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	102.203

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Sample ID: CCB 2

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
	Ge-1	72	97.076
	Cd	111	
	Sb	121	
|	In-1	115	98.519
|	Pb	208	
|	Tm-1	169	97.706
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|	Ge	72	97.076
|	Cd	108	
|	Cd	114	
|	In	115	98.519
|	207.977	208	
|	Pb	207	
|	Pb	206	
|	Tm	169	97.706
|	Pd	106	
|	Kr	83	

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

Sample ID: L9A3TB

Sample Description: G0J290000-324 BLK

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:28:56

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L9A3TB.020

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

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

Autosampler Position: 100

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1584692.633	ug/L	1576461.541
[>	6 Li-1			613461.378	ug/L	602295.472
[	9 Be	-0.007718	48.712	1.000	ug/L	3.000
[	44 Ca	108.001695	2.519	56534.695	ug/L	28364.421
|	52 Cr	-0.571022	4.784	16602.298	ug/L	22031.414
|	55 Mn	0.142080	10.183	4553.965	ug/L	2599.531
|	59 Co	0.000677	43.283	87.667	ug/L	81.667
|	60 Ni	0.316182	10.725	832.709	ug/L	113.383
|	75 As	0.519814	34.808	22596.940	ug/L	21656.423
|	82 Se	0.043217	497.165	1999.026	ug/L	2020.461
[>	72 Ge-1			1736732.999	ug/L	1764252.756
[	111 Cd	-0.002217	252.189	11.178	ug/L	15.179
|	121 Sb	-0.016535	6.061	113.668	ug/L	220.670
[>	115 In-1			1444441.093	ug/L	1427963.646
[	208 Pb	0.087390	1.731	2912.259	ug/L	601.344
[>	169 Tm-1			1270754.222	ug/L	1262607.009
[	50 Cr	0.656787	17.000	-48.602	ug/L	-194.824
|	53 Cr	-40.738455	6.778	12194.768	ug/L	27597.281
|	61 Ni	1.826457	91.860	1470.476	ug/L	1423.114
|	76 Se	-33.592963	39.353	-237655.755	ug/L	-239767.441
|	77 Se	-41.255571	0.689	3283.593	ug/L	10852.475
|	78 Se	0.187947	308.806	22866.618	ug/L	23118.961
|	79 Br	-120.093554	1.445	30831.562	ug/L	94019.717
[>	72 Ge			1736732.999	ug/L	1764252.756
[	108 Cd	0.012283	287.158	7.717	ug/L	5.989
|	114 Cd	0.000277	1384.964	50.766	ug/L	49.007
[>	115 In			1444441.093	ug/L	1427963.646
[	208 207.977	0.089143	2.534	1524.183	ug/L	312.008
|	207 Pb	0.089773	8.726	630.365	ug/L	133.001
|	206 Pb	0.082319	5.950	757.712	ug/L	156.335
[>	169 Tm			1270754.222	ug/L	1262607.009
|	106 Pd	-0.001811	793.725	8.000	ug/L	8.333
|	83 Kr	-312.193201	45.708	1430.828	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	101.854

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Sample ID: L9A3TB

[Be	9	
[Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	98.440
[Cd	111	
	Sb	121	
>	In-1	115	101.154
[	Pb	208	
>	Tm-1	169	100.645
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	98.440
[	Cd	108	
|	Cd	114	
>	In	115	101.154
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.645
|	Pd	106	
|	Kr	83	

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

Sample ID: L9A3TC

Sample Description: GOJ290000-324 LCS

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:32:39

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L9A3TC.021

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

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

Autosampler Position: 86

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1496552.265	ug/L	1576461.541
> 6 Li-1			632512.702	ug/L	602295.472
9 Be	171.164566	0.772	47075.158	ug/L	3.000
44 Ca	1093.584236	1.271	302874.420	ug/L	28364.421
52 Cr	178.480960	1.339	1535673.610	ug/L	22031.414
55 Mn	183.430398	0.667	2457516.536	ug/L	2599.531
59 Co	187.636010	0.492	1922046.616	ug/L	81.667
60 Ni	186.023526	1.155	404384.405	ug/L	113.383
75 As	178.399622	0.520	439432.357	ug/L	21656.423
82 Se	172.671292	0.629	41496.901	ug/L	2020.461
> 72 Ge-1			1655711.429	ug/L	1764252.756
111 Cd	185.202447	0.412	328741.506	ug/L	15.179
121 Sb	184.694211	0.620	1146687.914	ug/L	220.670
> 115 In-1			1353242.041	ug/L	1427963.646
208 Pb	194.470142	1.708	5075422.396	ug/L	601.344
> 169 Tm-1			1256007.655	ug/L	1262607.009
50 Cr	155.734983	3.745	32166.800	ug/L	-194.824
53 Cr	146.335978	2.280	77172.294	ug/L	27597.281
61 Ni	182.158821	1.848	7988.694	ug/L	1423.114
76 Se	101.168091	30.403	-220353.993	ug/L	-239767.441
77 Se	137.745358	2.001	33743.896	ug/L	10852.475
78 Se	174.464632	1.534	119574.242	ug/L	23118.961
79 Br	-127.558439	0.853	25742.440	ug/L	94019.717
> 72 Ge			1655711.429	ug/L	1764252.756
108 Cd	179.145644	0.471	22875.918	ug/L	5.989
114 Cd	185.774358	0.412	780529.003	ug/L	49.007
> 115 In			1353242.041	ug/L	1427963.646
208 207.977	199.379123	2.064	2676125.528	ug/L	312.008
207 Pb	209.891939	0.420	1148034.954	ug/L	133.001
206 Pb	173.625022	2.379	1251261.913	ug/L	156.335
> 169 Tm			1256007.655	ug/L	1262607.009
106 Pd	170.247784	1.772	31342.344	ug/L	8.333
83 Kr	-851.208564	3.747	1357.145	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	105.017

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Sample ID: L9A3TC

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	93.848
	Cd	111	
	Sb	121	
|>	In-1	115	94.767
|	Pb	208	
|>	Tm-1	169	99.477
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	93.848
|	Cd	108	
|	Cd	114	
|>	In	115	94.767
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	99.477
|	Pd	106	
|	Kr	83	

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

Sample ID: L9A3TL

Sample Description: G0J290000-324 LCSD

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:36:19

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L9A3TL.022

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

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

Autosampler Position: 87

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1449624.124	ug/L	1576461.541
[>	6 Li-1			622557.925	ug/L	602295.472
[	9 Be	171.123232	1.701	46307.231	ug/L	3.000
[	44 Ca	1115.513610	2.252	294374.356	ug/L	28364.421
|	52 Cr	184.969220	1.631	1518340.930	ug/L	22031.414
|	55 Mn	192.610304	0.976	2462809.238	ug/L	2599.531
|	59 Co	191.062752	1.747	1868261.798	ug/L	81.667
|	60 Ni	188.633484	1.485	391313.349	ug/L	113.383
|	75 As	180.861013	1.283	424941.521	ug/L	21656.423
|	82 Se	172.669843	2.199	39611.077	ug/L	2020.461
[>	72 Ge-1			1580522.879	ug/L	1764252.756
[	111 Cd	185.831601	0.522	327478.036	ug/L	15.179
|	121 Sb	181.079256	1.296	1116034.478	ug/L	220.670
[>	115 In-1			1343403.329	ug/L	1427963.646
[	208 Pb	192.399440	0.302	4998314.599	ug/L	601.344
[>	169 Tm-1			1250118.765	ug/L	1262607.009
[	50 Cr	163.986475	3.314	32351.470	ug/L	-194.824
|	53 Cr	153.643653	0.550	76101.985	ug/L	27597.281
|	61 Ni	183.291010	3.952	7662.233	ug/L	1423.114
|	76 Se	71.948150	36.218	-211638.220	ug/L	-239767.441
|	77 Se	136.515109	2.322	32001.902	ug/L	10852.475
|	78 Se	174.353448	1.292	114068.314	ug/L	23118.961
|	79 Br	-128.384987	1.275	24178.132	ug/L	94019.717
[>	72 Ge			1580522.879	ug/L	1764252.756
[	108 Cd	180.788882	0.540	22917.803	ug/L	5.989
|	114 Cd	185.224528	0.843	772576.252	ug/L	49.007
[>	115 In			1343403.329	ug/L	1427963.646
[	208 207.977	197.026118	0.448	2632395.770	ug/L	312.008
|	207 Pb	208.265895	0.441	1133793.188	ug/L	133.001
|	206 Pb	171.742654	0.092	1232125.642	ug/L	156.335
[>	169 Tm			1250118.765	ug/L	1262607.009
|	106 Pd	167.619728	1.590	30858.652	ug/L	8.333
|	83 Kr	-1480.457658	19.713	1271.127	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	103.364

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Sample ID: L9A3TL

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	89.586
	Cd	111	
	Sb	121	
|>	In-1	115	94.078
|	Pb	208	
|>	Tm-1	169	99.011
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	89.586
|	Cd	108	
|	Cd	114	
|>	In	115	94.078
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	99.011
|	Pd	106	
|	Kr	83	

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

Sample ID: L84MW

Sample Description: G0J260480-2

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:39:58

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84MW.023

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

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

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1473994.270	ug/L	1576461.541
[> 6 Li-1			632405.690	ug/L	602295.472
[9 Be	0.000681	325.467	3.333	ug/L	3.000
[44 Ca	520.462384	1.622	154942.715	ug/L	28364.421
[52 Cr	0.776975	1.056	26734.058	ug/L	22031.414
[55 Mn	246.316031	2.405	3232696.380	ug/L	2599.531
[59 Co	0.991446	1.765	10028.563	ug/L	81.667
[60 Ni	0.772054	1.595	1749.110	ug/L	113.383
[75 As	0.244058	33.141	20482.999	ug/L	21656.423
[82 Se	-0.360651	18.992	1777.745	ug/L	2020.461
[> 72 Ge-1			1623030.115	ug/L	1764252.756
[111 Cd	0.111713	9.196	209.078	ug/L	15.179
[121 Sb	0.291675	3.954	1985.977	ug/L	220.670
[> 115 In-1			1331345.714	ug/L	1427963.646
[208 Pb	1.343070	2.723	35567.797	ug/L	601.344
[> 169 Tm-1			1253785.855	ug/L	1262607.009
[50 Cr	12.656331	15.128	2394.304	ug/L	-194.824
[53 Cr	-41.904934	5.651	11008.419	ug/L	27597.281
[61 Ni	2.249626	16.137	1389.758	ug/L	1423.114
[76 Se	-59.646661	55.461	-223289.555	ug/L	-239767.441
[77 Se	-43.691643	0.700	2660.389	ug/L	10852.475
[78 Se	-1.800024	39.803	20273.100	ug/L	23118.961
[79 Br	-126.540574	0.632	25719.691	ug/L	94019.717
[> 72 Ge			1623030.115	ug/L	1764252.756
[108 Cd	0.481982	30.370	66.276	ug/L	5.989
[114 Cd	0.088751	4.805	412.250	ug/L	49.007
[> 115 In			1331345.714	ug/L	1427963.646
[208 207.977	1.379429	3.383	18779.335	ug/L	312.008
[207 Pb	1.399552	2.387	7769.407	ug/L	133.001
[206 Pb	1.232495	1.936	9019.055	ug/L	156.335
[> 169 Tm			1253785.855	ug/L	1262607.009
[106 Pd	0.920056	2.387	177.669	ug/L	8.333
[83 Kr	-1429.240449	9.727	1278.128	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	104.999

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Sample ID: L84MW

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	91.995
	Cd	111	
	Sb	121	
|>	In-1	115	93.234
|	Pb	208	
|>	Tm-1	169	99.301
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	91.995
|	Cd	108	
|	Cd	114	
|>	In	115	93.234
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	99.301
|	Pd	106	
|	Kr	83	

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

Sample ID: L84MWP5

Sample Description: G0J260480-2 5X

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:43:38

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84MWP5.024

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

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

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1467793.659	ug/L	1576461.541
[> 6 Li-1			652165.039	ug/L	602295.472
[9 Be	-0.002049	199.131	2.667	ug/L	3.000
[44 Ca	107.083022	0.259	53155.089	ug/L	28364.421
[52 Cr	0.059453	86.251	20980.214	ug/L	22031.414
[55 Mn	49.670613	1.189	660766.877	ug/L	2599.531
[59 Co	0.198426	1.278	2089.010	ug/L	81.667
[60 Ni	0.169618	3.419	470.486	ug/L	113.383
[75 As	0.017278	345.280	20170.328	ug/L	21656.423
[82 Se	-0.257915	64.641	1819.343	ug/L	2020.461
[> 72 Ge-1			1639857.711	ug/L	1764252.756
[111 Cd	0.021450	19.119	51.028	ug/L	15.179
[121 Sb	0.067495	11.817	610.696	ug/L	220.670
[> 115 In-1			1315969.853	ug/L	1427963.646
[208 Pb	0.269307	1.304	7509.742	ug/L	601.344
[> 169 Tm-1			1236739.007	ug/L	1262607.009
[50 Cr	2.477284	1.041	328.844	ug/L	-194.824
[53 Cr	-13.304003	19.893	21040.452	ug/L	27597.281
[61 Ni	0.066390	991.440	1325.053	ug/L	1423.114
[76 Se	-92.812551	75.562	-227108.718	ug/L	-239767.441
[77 Se	-15.820750	3.035	7408.351	ug/L	10852.475
[78 Se	-1.941635	2.235	20409.991	ug/L	23118.961
[79 Br	-35.797249	2.037	70017.948	ug/L	94019.717
[> 72 Ge			1639857.711	ug/L	1764252.756
[108 Cd	0.084066	27.351	15.952	ug/L	5.989
[114 Cd	0.018729	6.591	121.684	ug/L	49.007
[> 115 In			1315969.853	ug/L	1427963.646
[208 207.977	0.279162	1.266	3995.254	ug/L	312.008
[207 Pb	0.278968	1.304	1632.543	ug/L	133.001
[206 Pb	0.243620	2.921	1881.945	ug/L	156.335
[> 169 Tm			1236739.007	ug/L	1262607.009
[106 Pd	0.143078	2.192	34.667	ug/L	8.333
[83 Kr	-1168.273144	17.247	1313.802	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	108.280

[	Be	9	
[	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	As	75	
|	Se	82	
>	Ge-1	72	92.949
[	Cd	111	
|	Sb	121	
>	In-1	115	92.157
[	Pb	208	
>	Tm-1	169	97.951
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	92.949
[	Cd	108	
|	Cd	114	
>	In	115	92.157
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	97.951
|	Pd	106	
|	Kr	83	

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

Sample ID: L84MWZ

Sample Description: G0J260480-2 PS

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:47:17

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84MWZ.025

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

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

Autosampler Position: 13

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1422249.739	ug/L	1576461.541
> 6 Li-1			632450.129	ug/L	602295.472
[9 Be	187.154741	0.889	51470.347	ug/L	3.000
[44 Ca	1573.849428	1.266	406858.180	ug/L	28364.421
[52 Cr	197.761567	1.942	1630091.106	ug/L	22031.414
[55 Mn	446.093878	1.179	5728392.266	ug/L	2599.531
[59 Co	206.962796	0.430	2033744.017	ug/L	81.667
[60 Ni	203.871449	0.460	425040.976	ug/L	113.383
[75 As	195.792417	0.771	460677.416	ug/L	21656.423
[82 Se	187.232757	0.940	43010.654	ug/L	2020.461
> 72 Ge-1			1588267.776	ug/L	1764252.756
[111 Cd	203.080757	1.632	348823.794	ug/L	15.179
[121 Sb	205.073769	1.311	1232188.075	ug/L	220.670
> 115 In-1			1309845.419	ug/L	1427963.646
[208 Pb	213.365948	1.072	5539489.821	ug/L	601.344
> 169 Tm-1			1249377.612	ug/L	1262607.009
[50 Cr	183.163894	2.067	36343.231	ug/L	-194.824
[53 Cr	167.449210	1.535	81123.519	ug/L	27597.281
[61 Ni	198.623300	2.578	8237.237	ug/L	1423.114
[76 Se	87.048174	59.512	-212030.718	ug/L	-239767.441
[77 Se	151.492424	1.056	34615.116	ug/L	10852.475
[78 Se	188.540617	1.202	122258.299	ug/L	23118.961
[79 Br	-125.853461	1.008	25495.746	ug/L	94019.717
> 72 Ge			1588267.776	ug/L	1764252.756
[108 Cd	195.295262	2.245	24128.609	ug/L	5.989
[114 Cd	204.739486	1.575	832465.958	ug/L	49.007
> 115 In			1309845.419	ug/L	1427963.646
[208 207.977	218.555228	1.415	2918168.816	ug/L	312.008
[207 Pb	228.835279	0.496	1245013.974	ug/L	133.001
[206 Pb	191.962733	0.895	1376307.031	ug/L	156.335
> 169 Tm			1249377.612	ug/L	1262607.009
[106 Pd	179.478367	0.919	33041.228	ug/L	8.333
[83 Kr	-1192.659882	54.891	1310.469	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	105.007

Be	9	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
As	75	
Se	82	
> Ge-1	72	90.025
Cd	111	
Sb	121	
> In-1	115	91.728
Pb	208	
> Tm-1	169	98.952
Cr	50	
Cr	53	
Ni	61	
Se	76	
Se	77	
Se	78	
Br	79	
> Ge	72	90.025
Cd	108	
Cd	114	
> In	115	91.728
207.977	208	
Pb	207	
Pb	206	
> Tm	169	98.952
Pd	106	
Kr	83	

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

Sample ID: L84M3

Sample Description: G0J260480-4

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:50:56

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84M3.026

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

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

Autosampler Position: 14

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1432279.881	ug/L	1576461.541
[> 6 Li-1			649833.890	ug/L	602295.472
[9 Be	0.001674	664.309	3.667	ug/L	3.000
[44 Ca	906.723725	1.182	242587.380	ug/L	28364.421
[52 Cr	1.035068	6.215	27956.621	ug/L	22031.414
[55 Mn	274.342059	0.510	3486301.477	ug/L	2599.531
[59 Co	0.625591	2.141	6153.975	ug/L	81.667
[60 Ni	1.157437	1.741	2487.314	ug/L	113.383
[75 As	0.361946	28.060	20092.043	ug/L	21656.423
[82 Se	0.218512	56.260	1846.744	ug/L	2020.461
[> 72 Ge-1			1571127.514	ug/L	1764252.756
[111 Cd	0.119222	4.873	216.324	ug/L	15.179
[121 Sb	0.505641	1.385	3205.474	ug/L	220.670
[> 115 In-1			1295605.199	ug/L	1427963.646
[208 Pb	1.501485	1.072	39467.155	ug/L	601.344
[> 169 Tm-1			1246056.754	ug/L	1262607.009
[50 Cr	3.134350	15.255	444.518	ug/L	-194.824
[53 Cr	-41.319653	7.848	10845.677	ug/L	27597.281
[61 Ni	3.080651	66.640	1374.083	ug/L	1423.114
[76 Se	-71.968849	26.648	-216672.319	ug/L	-239767.441
[77 Se	-43.304567	0.903	2638.383	ug/L	10852.475
[78 Se	-1.417620	38.009	19832.361	ug/L	23118.961
[79 Br	-127.352321	0.151	24516.349	ug/L	94019.717
[> 72 Ge			1571127.514	ug/L	1764252.756
[108 Cd	0.453361	20.879	60.845	ug/L	5.989
[114 Cd	0.096383	2.827	432.215	ug/L	49.007
[> 115 In			1295605.199	ug/L	1427963.646
[208 207.977	1.543636	1.344	20861.810	ug/L	312.008
[207 Pb	1.552154	1.082	8552.076	ug/L	133.001
[206 Pb	1.384533	0.598	10053.269	ug/L	156.335
[> 169 Tm			1246056.754	ug/L	1262607.009
[106 Pd	0.912811	4.507	176.336	ug/L	8.333
[83 Kr	-1485.335908	12.110	1270.460	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	107.893

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Sample ID: L84M3

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	89.053
	Cd	111	
	Sb	121	
|>	In-1	115	90.731
|	Pb	208	
|>	Tm-1	169	98.689
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	89.053
|	Cd	108	
|	Cd	114	
|>	In	115	90.731
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	98.689
|	Pd	106	
|	Kr	83	

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

Sample ID: L84NW

Sample Description: G0J260480-11

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:54:35

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84NW.027

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

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

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1432533.146	ug/L	1576461.541
[> 6 Li-1			634351.278	ug/L	602295.472
[9 Be	-0.005417	38.386	1.667	ug/L	3.000
[44 Ca	938.615728	1.704	256991.254	ug/L	28364.421
[52 Cr	1.211523	4.874	30175.745	ug/L	22031.414
[55 Mn	333.953916	0.819	4357643.901	ug/L	2599.531
[59 Co	0.369969	1.683	3768.449	ug/L	81.667
[60 Ni	2.200288	1.751	4763.115	ug/L	113.383
[75 As	0.389156	44.036	20694.527	ug/L	21656.423
[82 Se	0.246749	65.121	1902.996	ug/L	2020.461
[> 72 Ge-1			1613578.367	ug/L	1764252.756
[111 Cd	0.144738	8.332	264.698	ug/L	15.179
[121 Sb	0.913326	2.105	5737.252	ug/L	220.670
[> 115 In-1			1320887.349	ug/L	1427963.646
[208 Pb	1.851042	1.672	48553.248	ug/L	601.344
[> 169 Tm-1			1247013.728	ug/L	1262607.009
[50 Cr	4.356271	9.772	703.773	ug/L	-194.824
[53 Cr	-41.213115	7.654	11178.976	ug/L	27597.281
[61 Ni	2.538758	66.276	1392.094	ug/L	1423.114
[76 Se	-120.990157	61.513	-224749.289	ug/L	-239767.441
[77 Se	-42.780034	1.108	2797.431	ug/L	10852.475
[78 Se	-1.919616	36.594	20091.931	ug/L	23118.961
[79 Br	-127.360929	0.923	25178.848	ug/L	94019.717
[> 72 Ge			1613578.367	ug/L	1764252.756
[108 Cd	0.535435	25.822	72.313	ug/L	5.989
[114 Cd	0.131423	3.758	584.194	ug/L	49.007
[> 115 In			1320887.349	ug/L	1427963.646
[208 207.977	1.899601	2.000	25620.141	ug/L	312.008
[207 Pb	1.919858	1.113	10555.414	ug/L	133.001
[206 Pb	1.708387	1.669	12377.693	ug/L	156.335
[> 169 Tm			1247013.728	ug/L	1262607.009
[106 Pd	0.853043	10.198	165.335	ug/L	8.333
[83 Kr	-1404.851144	6.036	1281.462	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	105.322

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Sample ID: L84NW

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	91.460
	Cd	111	
	Sb	121	
|>	In-1	115	92.501
|	Pb	208	
|>	Tm-1	169	98.765
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	91.460
|	Cd	108	
|	Cd	114	
|>	In	115	92.501
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	98.765
|	Pd	106	
|	Kr	83	

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

Sample ID: L84N2

Sample Description: GOJ260480-12

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 15:58:15

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84N2.028

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

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

Autosampler Position: 16

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1499373.106	ug/L	1576461.541
> 6 Li-1			644084.153	ug/L	602295.472
9 Be	0.000602	1974.246	3.333	ug/L	3.000
44 Ca	1147.091576	2.397	311244.907	ug/L	28364.421
52 Cr	1.349748	5.585	31616.709	ug/L	22031.414
55 Mn	827.448216	1.857	10896117.573	ug/L	2599.531
59 Co	0.846892	3.288	8608.486	ug/L	81.667
60 Ni	1.716354	1.596	3773.640	ug/L	113.383
75 As	0.425240	69.889	20973.168	ug/L	21656.423
82 Se	0.123595	215.532	1893.513	ug/L	2020.461
> 72 Ge-1			1629145.047	ug/L	1764252.756
111 Cd	0.173561	4.296	322.997	ug/L	15.179
121 Sb	0.711443	2.827	4633.687	ug/L	220.670
> 115 In-1			1355750.011	ug/L	1427963.646
208 Pb	1.357681	2.264	35982.422	ug/L	601.344
> 169 Tm-1			1254633.262	ug/L	1262607.009
50 Cr	5.797987	23.948	1004.058	ug/L	-194.824
53 Cr	-40.787570	6.321	11428.806	ug/L	27597.281
61 Ni	5.922992	29.304	1526.513	ug/L	1423.114
76 Se	-80.572789	65.246	-225078.954	ug/L	-239767.441
77 Se	-42.323376	1.161	2901.464	ug/L	10852.475
78 Se	-1.111346	85.015	20729.186	ug/L	23118.961
79 Br	-127.254872	0.550	25470.649	ug/L	94019.717
> 72 Ge			1629145.047	ug/L	1764252.756
108 Cd	0.573914	19.921	79.192	ug/L	5.989
114 Cd	0.160329	3.520	721.294	ug/L	49.007
> 115 In			1355750.011	ug/L	1427963.646
208 207.977	1.394678	1.037	19008.017	ug/L	312.008
207 Pb	1.391248	3.069	7729.692	ug/L	133.001
206 Pb	1.263305	4.733	9244.714	ug/L	156.335
> 169 Tm			1254633.262	ug/L	1262607.009
106 Pd	1.155507	5.701	221.004	ug/L	8.333
83 Kr	-960.960708	44.840	1342.142	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	106.938

[	Be	9	
[	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	As	75	
|	Se	82	
>	Ge-1	72	92.342
[	Cd	111	
|	Sb	121	
>	In-1	115	94.943
[	Pb	208	
>	Tm-1	169	99.368
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	92.342
[	Cd	108	
|	Cd	114	
>	In	115	94.943
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	99.368
|	Pd	106	
|	Kr	83	

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

Sample ID: L84QX

Sample Description: G0J260480-15

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 16:01:55

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84QX.029

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

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

Autosampler Position: 17

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1460728.457	ug/L	1576461.541
> 6 Li-1			639739.961	ug/L	602295.472
9 Be	0.007704	23.865	5.333	ug/L	3.000
44 Ca	1006.777015	1.109	277707.422	ug/L	28364.421
52 Cr	2.027266	1.243	37450.547	ug/L	22031.414
55 Mn	592.306529	1.907	7838170.231	ug/L	2599.531
59 Co	1.513600	2.009	15403.962	ug/L	81.667
60 Ni	1.530698	1.554	3393.011	ug/L	113.383
75 As	2.696215	4.819	26351.909	ug/L	21656.423
82 Se	0.144788	36.338	1907.204	ug/L	2020.461
> 72 Ge-1			1636741.300	ug/L	1764252.756
111 Cd	0.352005	4.953	639.111	ug/L	15.179
121 Sb	0.301030	2.004	2077.673	ug/L	220.670
> 115 In-1			1353165.086	ug/L	1427963.646
208 Pb	2.589576	1.320	68670.918	ug/L	601.344
> 169 Tm-1			1265124.456	ug/L	1262607.009
50 Cr	24.440508	6.024	4839.443	ug/L	-194.824
53 Cr	-39.427831	8.068	11946.146	ug/L	27597.281
61 Ni	2.121720	47.978	1396.763	ug/L	1423.114
76 Se	-88.348187	37.739	-226470.156	ug/L	-239767.441
77 Se	-41.688384	1.746	3021.169	ug/L	10852.475
78 Se	-1.387936	33.788	20677.444	ug/L	23118.961
79 Br	-127.937624	0.679	25255.370	ug/L	94019.717
> 72 Ge			1636741.300	ug/L	1764252.756
108 Cd	0.686355	11.915	93.288	ug/L	5.989
114 Cd	0.334930	1.912	1453.600	ug/L	49.007
> 115 In			1353165.086	ug/L	1427963.646
208 207.977	2.644094	1.521	36057.876	ug/L	312.008
207 Pb	2.682501	0.937	14909.445	ug/L	133.001
206 Pb	2.417527	2.604	17703.596	ug/L	156.335
> 169 Tm			1265124.456	ug/L	1262607.009
106 Pd	1.159130	4.879	221.671	ug/L	8.333
83 Kr	-1131.689086	7.494	1318.803	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	106.217

L	Be	9	
|	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	As	75	
|	Se	82	
>	Ge-1	72	92.772
|	Cd	111	
|	Sb	121	
>	In-1	115	94.762
|	Pb	208	
>	Tm-1	169	100.199
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	92.772
|	Cd	108	
|	Cd	114	
>	In	115	94.762
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	100.199
|	Pd	106	
|	Kr	83	

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

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 16:05:35

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 3.030

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1446283.654	ug/L	1576461.541
[>	6 Li-1			664475.839	ug/L	602295.472
[	9 Be	X 89.262171	3.140	25776.770	ug/L	3.000
[	44 Ca	5002.009771	2.411	1260054.371	ug/L	28364.421
|	52 Cr	94.283059	2.001	801925.648	ug/L	22031.414
|	55 Mn	96.593598	2.451	1265077.296	ug/L	2599.531
|	59 Co	95.652214	0.764	957294.563	ug/L	81.667
|	60 Ni	96.283057	1.702	204456.586	ug/L	113.383
|	75 As	97.059649	1.597	242575.577	ug/L	21656.423
|	82 Se	94.074985	3.443	22923.239	ug/L	2020.461
[>	72 Ge-1			1617648.154	ug/L	1764252.756
[	111 Cd	99.268125	2.802	168004.814	ug/L	15.179
|	121 Sb	50.524651	2.074	299273.513	ug/L	220.670
[>	115 In-1			1290862.283	ug/L	1427963.646
[	208 Pb	102.071992	2.689	2545125.718	ug/L	601.344
[>	169 Tm-1			1200497.437	ug/L	1262607.009
[	50 Cr	94.025342	6.444	18899.561	ug/L	-194.824
|	53 Cr	88.435530	1.320	55575.249	ug/L	27597.281
|	61 Ni	94.487139	2.143	4675.138	ug/L	1423.114
|	76 Se	-36.905478	131.578	-221536.498	ug/L	-239767.441
|	77 Se	89.980095	1.325	24980.279	ug/L	10852.475
|	78 Se	94.525405	2.314	72989.678	ug/L	23118.961
|	79 Br	1.360252	49.113	86862.173	ug/L	94019.717
[>	72 Ge			1617648.154	ug/L	1764252.756
[	108 Cd	98.422330	2.888	11984.902	ug/L	5.989
|	114 Cd	100.316489	2.586	401889.415	ug/L	49.007
[>	115 In			1290862.283	ug/L	1427963.646
[	208 207.977	102.409443	2.755	1313270.811	ug/L	312.008
|	207 Pb	101.097884	2.630	528256.697	ug/L	133.001
|	206 Pb	102.182716	2.663	703598.210	ug/L	156.335
[>	169 Tm			1200497.437	ug/L	1262607.009
|	106 Pd	87.405835	0.195	16095.329	ug/L	8.333
|	83 Kr	-885.353821	23.145	1352.477	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	110.324

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Sample ID: CCV 3

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	91.690
	Cd	111	
	Sb	121	
|>	In-1	115	90.399
|	Pb	208	
|>	Tm-1	169	95.081
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	91.690
|	Cd	108	
|	Cd	114	
|>	In	115	90.399
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	95.081
|	Pd	106	
|	Kr	83	

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

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 16:09:17

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 3.031

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1479596.652	ug/L	1576461.541
[> 6 Li-1			672930.807	ug/L	602295.472
[9 Be	-0.004673	69.145	2.000	ug/L	3.000
[44 Ca	-9.258397	27.604	24305.328	ug/L	28364.421
[52 Cr	-0.201784	46.979	18978.266	ug/L	22031.414
[55 Mn	-0.026551	17.131	2088.343	ug/L	2599.531
[59 Co	0.005604	14.031	134.335	ug/L	81.667
[60 Ni	0.006342	42.231	120.449	ug/L	113.383
[75 As	-0.241901	134.116	19773.157	ug/L	21656.423
[82 Se	-0.123331	290.910	1869.195	ug/L	2020.461
[> 72 Ge-1			1658125.622	ug/L	1764252.756
[111 Cd	0.011601	9.305	34.250	ug/L	15.179
[121 Sb	0.021306	31.005	333.675	ug/L	220.670
[> 115 In-1			1326281.049	ug/L	1427963.646
[208 Pb	0.005456	10.546	726.349	ug/L	601.344
[> 169 Tm-1			1232272.007	ug/L	1262607.009
[50 Cr	0.200421	14.185	-141.460	ug/L	-194.824
[53 Cr	-10.537654	11.019	22240.700	ug/L	27597.281
[61 Ni	-1.893415	94.895	1269.022	ug/L	1423.114
[76 Se	-125.573322	8.747	-231135.186	ug/L	-239767.441
[77 Se	-11.198538	7.332	8280.771	ug/L	10852.475
[78 Se	-2.313403	31.869	20421.684	ug/L	23118.961
[79 Br	-12.030770	23.924	82440.160	ug/L	94019.717
[> 72 Ge			1658125.622	ug/L	1764252.756
[108 Cd	-0.017417	348.554	3.532	ug/L	5.989
[114 Cd	0.004743	23.735	65.063	ug/L	49.007
[> 115 In			1326281.049	ug/L	1427963.646
[208 207.977	0.003987	31.728	356.677	ug/L	312.008
[207 Pb	0.007825	13.925	171.669	ug/L	133.001
[206 Pb	0.006393	38.527	198.003	ug/L	156.335
[> 169 Tm			1232272.007	ug/L	1262607.009
[106 Pd	0.007244	229.129	9.667	ug/L	8.333
[83 Kr	-1248.758656	10.841	1302.800	ug/L	1473.504

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	111.728

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Sample ID: CCB 3

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	93.985
	Cd	111	
	Sb	121	
|>	In-1	115	92.879
|	Pb	208	
|>	Tm-1	169	97.597
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	93.985
|	Cd	108	
|	Cd	114	
|>	In	115	92.879
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	97.597
|	Pd	106	
|	Kr	83	

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

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 16:12:59

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 4.032

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1443449.713	ug/L	1479596.652
> 6 Li-1			661711.380	ug/L	672930.807
[9 Be	100.623203	0.853	25842.373	ug/L	2.000
[44 Ca	5003.876450	2.030	1243434.473	ug/L	24305.328
[52 Cr	100.306441	1.470	808616.623	ug/L	18978.266
[55 Mn	101.133538	1.521	1286154.473	ug/L	2088.343
[59 Co	101.982774	1.645	981331.379	ug/L	134.335
[60 Ni	102.097316	0.263	209847.467	ug/L	120.449
[75 As	98.971722	0.278	241545.896	ug/L	19773.157
[82 Se	97.850429	0.869	22593.119	ug/L	1869.195
> 72 Ge-1			1625828.734	ug/L	1658125.622
[111 Cd	99.663025	1.201	169411.321	ug/L	34.250
[121 Sb	49.921883	1.524	302268.349	ug/L	333.675
> 115 In-1			1305475.792	ug/L	1326281.049
[208 Pb	98.571881	0.914	2550518.733	ug/L	726.349
> 169 Tm-1			1219673.751	ug/L	1232272.007
[50 Cr	101.720744	2.410	19340.565	ug/L	-141.460
[53 Cr	100.465084	3.903	56011.733	ug/L	22240.700
[61 Ni	106.636520	5.196	4929.012	ug/L	1269.022
[76 Se	57.832625	56.390	-224312.994	ug/L	-231135.186
[77 Se	95.825801	0.943	24400.036	ug/L	8280.771
[78 Se	97.108367	0.252	71833.081	ug/L	20421.684
[79 Br	196.262367	42.638	93518.276	ug/L	82440.160
> 72 Ge			1625828.734	ug/L	1658125.622
[108 Cd	97.642994	2.382	11839.304	ug/L	3.532
[114 Cd	100.324096	1.180	407912.812	ug/L	65.063
> 115 In			1305475.792	ug/L	1326281.049
[208 207.977	98.120703	1.056	1310042.422	ug/L	356.677
[207 Pb	99.027332	1.407	531823.559	ug/L	171.669
[206 Pb	99.072098	0.607	708652.752	ug/L	198.003
> 169 Tm			1219673.751	ug/L	1232272.007
[106 Pd	99.175269	1.620	15962.666	ug/L	9.667
[83 Kr	-26.845394	267.734	1289.464	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	98.333

Report Date/Time: Monday, November 01, 2010 16:25:29

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Sample ID: CCV 4

[Be	9	
[Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	98.052
[Cd	111	
	Sb	121	
>	In-1	115	98.431
[	Pb	208	
>	Tm-1	169	98.978
[	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	98.052
[	Cd	108	
|	Cd	114	
>	In	115	98.431
[	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	98.978
|	Pd	106	
|	Kr	83	

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

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 16:16:40

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 4.033

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1465304.682	ug/L	1479596.652
> 6 Li-1			650827.887	ug/L	672930.807
[9 Be	0.006842	31.062	3.667	ug/L	2.000
[44 Ca	-0.696126	208.725	23550.165	ug/L	24305.328
| 52 Cr	-0.006129	463.925	18473.109	ug/L	18978.266
| 55 Mn	-0.002143	275.368	2010.985	ug/L	2088.343
| 59 Co	0.000644	193.619	137.335	ug/L	134.335
| 60 Ni	0.000203	3140.137	118.036	ug/L	120.449
| 75 As	0.197523	114.457	19736.385	ug/L	19773.157
| 82 Se	0.006618	4231.980	1825.743	ug/L	1869.195
> 72 Ge-1			1618247.859	ug/L	1658125.622
[111 Cd	-0.002319	105.029	29.963	ug/L	34.250
| 121 Sb	-0.009104	42.245	274.673	ug/L	333.675
> 115 In-1			1312518.137	ug/L	1326281.049
[208 Pb	0.000941	206.891	731.350	ug/L	726.349
> 169 Tm-1			1200103.236	ug/L	1232272.007
[50 Cr	-0.112601	17.575	-159.525	ug/L	-141.460
| 53 Cr	2.186619	46.131	22448.356	ug/L	22240.700
| 61 Ni	1.364863	105.594	1285.697	ug/L	1269.022
| 76 Se	-55.413390	68.390	-227783.492	ug/L	-231135.186
| 77 Se	-0.280658	146.834	8033.882	ug/L	8280.771
| 78 Se	0.908649	49.916	20411.903	ug/L	20421.684
| 79 Br	34.920567	47.717	82708.297	ug/L	82440.160
> 72 Ge			1618247.859	ug/L	1658125.622
[108 Cd	-0.007280	242.014	2.594	ug/L	3.532
| 114 Cd	0.003000	93.458	76.730	ug/L	65.063
> 115 In			1312518.137	ug/L	1326281.049
[208 207.977	0.002991	79.230	386.678	ug/L	356.677
| 207 Pb	-0.003314	104.491	149.668	ug/L	171.669
| 206 Pb	0.000308	348.676	195.003	ug/L	198.003
> 169 Tm			1200103.236	ug/L	1232272.007
| 106 Pd	0.008289	75.000	11.000	ug/L	9.667
| 83 Kr	50.335559	148.880	1327.805	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	96.715

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Sample ID: CCB 4

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	97.595
	Cd	111	
	Sb	121	
>	In-1	115	98.962
|	Pb	208	
>	Tm-1	169	97.389
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	97.595
|	Cd	108	
|	Cd	114	
>	In	115	98.962
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	97.389
|	Pd	106	
|	Kr	83	

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

Sample ID: L84Q2

Sample Description: G0J260480-16

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 16:20:21

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84Q2.034

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

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

Autosampler Position: 18

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			1493792.557	ug/L	1479596.652
[>	6 Li-1			648445.197	ug/L	672930.807
[	9 Be	-0.003713	106.926	1.000	ug/L	2.000
[	44 Ca	646.655959	2.194	183929.364	ug/L	24305.328
|	52 Cr	1.128411	6.609	27872.932	ug/L	18978.266
|	55 Mn	55.885151	0.623	721378.920	ug/L	2088.343
|	59 Co	0.438630	0.963	4411.195	ug/L	134.335
|	60 Ni	2.336079	2.651	4984.025	ug/L	120.449
|	75 As	0.607497	29.478	21036.822	ug/L	19773.157
|	82 Se	0.361323	9.301	1935.554	ug/L	1869.195
[>	72 Ge-1			1648074.171	ug/L	1658125.622
[	111 Cd	0.020225	38.295	70.299	ug/L	34.250
|	121 Sb	0.290654	0.666	2152.697	ug/L	333.675
[>	115 In-1			1346830.769	ug/L	1326281.049
[	208 Pb	1.232034	0.493	33125.504	ug/L	726.349
[>	169 Tm-1			1239829.433	ug/L	1232272.007
[	50 Cr	2.095293	16.961	266.026	ug/L	-141.460
|	53 Cr	-30.856801	9.351	11458.299	ug/L	22240.700
|	61 Ni	4.431192	51.292	1416.776	ug/L	1269.022
|	76 Se	-12.392489	385.668	-230236.369	ug/L	-231135.186
|	77 Se	-31.388198	0.719	2824.772	ug/L	8280.771
|	78 Se	1.147925	20.785	20918.822	ug/L	20421.684
|	79 Br	-812.938054	2.222	28683.907	ug/L	82440.160
[>	72 Ge			1648074.171	ug/L	1658125.622
[	108 Cd	0.342619	9.247	46.459	ug/L	3.532
|	114 Cd	0.017850	15.089	140.905	ug/L	65.063
[>	115 In			1346830.769	ug/L	1326281.049
[	208 207.977	1.254086	0.978	17373.352	ug/L	356.677
|	207 Pb	1.286226	1.419	7191.395	ug/L	171.669
|	206 Pb	1.150185	0.841	8560.757	ug/L	198.003
[>	169 Tm			1239829.433	ug/L	1232272.007
|	106 Pd	0.636183	13.785	112.001	ug/L	9.667
|	83 Kr	110.067224	69.905	1357.478	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	96.361

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Sample ID: L84Q2

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	99.394
	Cd	111	
	Sb	121	
|>	In-1	115	101.549
|	Pb	208	
|>	Tm-1	169	100.613
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
|>	Ge	72	99.394
|	Cd	108	
|	Cd	114	
|>	In	115	101.549
|	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	100.613
|	Pd	106	
|	Kr	83	

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

Sample ID: L84Q6

Sample Description: G0J260480-20

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 16:27:54

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84Q6.035

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

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

Autosampler Position: 19

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1503027.973	ug/L	1479596.652
> 6 Li-1			667192.931	ug/L	672930.807
[9 Be	-0.002542	230.030	1.333	ug/L	2.000
[44 Ca	809.567832	0.628	225681.881	ug/L	24305.328
[52 Cr	1.589904	5.491	31770.477	ug/L	18978.266
[55 Mn	758.217828	0.816	9826674.842	ug/L	2088.343
[59 Co	1.348355	1.285	13372.369	ug/L	134.335
[60 Ni	2.185634	2.936	4702.094	ug/L	120.449
[75 As	1.008386	15.517	22095.371	ug/L	19773.157
[82 Se	0.509356	24.808	1980.710	ug/L	1869.195
> 72 Ge-1			1659181.512	ug/L	1658125.622
[111 Cd	0.138951	13.285	279.605	ug/L	34.250
[121 Sb	0.399736	1.958	2847.637	ug/L	333.675
> 115 In-1			1353555.582	ug/L	1326281.049
[208 Pb	2.295710	1.821	62558.205	ug/L	726.349
> 169 Tm-1			1269784.183	ug/L	1232272.007
[50 Cr	3.495633	19.169	542.086	ug/L	-141.460
[53 Cr	-24.691953	15.255	13675.943	ug/L	22240.700
[61 Ni	5.921716	55.528	1479.150	ug/L	1269.022
[76 Se	112.717272	38.966	-226671.076	ug/L	-231135.186
[77 Se	-27.618307	4.989	3497.675	ug/L	8280.771
[78 Se	2.299776	8.414	21686.368	ug/L	20421.684
[79 Br	-847.797240	1.047	26574.796	ug/L	82440.160
> 72 Ge			1659181.512	ug/L	1658125.622
[108 Cd	0.503324	16.568	66.881	ug/L	3.532
[114 Cd	0.141838	4.217	664.073	ug/L	65.063
> 115 In			1353555.582	ug/L	1326281.049
[208 207.977	2.349579	2.643	33006.714	ug/L	356.677
[207 Pb	2.400767	1.458	13593.170	ug/L	171.669
[206 Pb	2.116285	0.865	15958.321	ug/L	198.003
> 169 Tm			1269784.183	ug/L	1232272.007
[106 Pd	0.973966	4.705	166.336	ug/L	9.667
[83 Kr	60.402884	193.945	1332.806	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	99.147

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Sample ID: L84Q6

[Be	9	
[Ca	44	
[Cr	52	
[Mn	55	
[Co	59	
[Ni	60	
[As	75	
[Se	82	
>	Ge-1	72	100.064
[Cd	111	
[Sb	121	
>	In-1	115	102.056
[	Pb	208	
>	Tm-1	169	103.044
[	Cr	50	
[	Cr	53	
[	Ni	61	
[	Se	76	
[	Se	77	
[	Se	78	
[	Br	79	
>	Ge	72	100.064
[	Cd	108	
[	Cd	114	
>	In	115	102.056
[	207.977	208	
[	Pb	207	
[	Pb	206	
>	Tm	169	103.044
[	Pd	106	
[	Kr	83	

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

Sample ID: L84RC

Sample Description: G0J260480-23

Batch ID: 302324

Sample Date/Time: Monday, November 01, 2010 16:31:35

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\L84RC.036

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

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

Autosampler Position: 20

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1477858.735	ug/L	1479596.652
[> 6 Li-1			649716.366	ug/L	672930.807
[9 Be	0.004183	159.457	3.000	ug/L	2.000
[44 Ca	1939.959227	1.047	511996.425	ug/L	24305.328
[52 Cr	1.503196	4.023	31387.557	ug/L	18978.266
[55 Mn	345.981512	1.782	4530723.301	ug/L	2088.343
[59 Co	1.153941	1.926	11579.860	ug/L	134.335
[60 Ni	1.370997	2.056	3024.935	ug/L	120.449
[75 As	0.712618	38.378	21633.269	ug/L	19773.157
[82 Se	-0.004011	2489.946	1888.606	ug/L	1869.195
[> 72 Ge-1			1676137.250	ug/L	1658125.622
[111 Cd	0.119326	12.333	247.145	ug/L	34.250
[121 Sb	0.398368	2.857	2859.309	ug/L	333.675
[> 115 In-1			1363445.355	ug/L	1326281.049
[208 Pb	1.700768	1.277	45985.984	ug/L	726.349
[> 169 Tm-1			1254444.659	ug/L	1232272.007
[50 Cr	4.272324	8.606	700.248	ug/L	-141.460
[53 Cr	-25.004813	11.553	13708.726	ug/L	22240.700
[61 Ni	4.995836	27.109	1460.803	ug/L	1269.022
[76 Se	-11.137496	314.880	-234107.883	ug/L	-231135.186
[77 Se	-26.434393	1.358	3741.103	ug/L	8280.771
[78 Se	1.055182	57.785	21221.972	ug/L	20421.684
[79 Br	-869.318314	1.264	25413.830	ug/L	82440.160
[> 72 Ge			1676137.250	ug/L	1658125.622
[108 Cd	0.476172	24.346	63.858	ug/L	3.532
[114 Cd	0.097028	3.001	478.983	ug/L	65.063
[> 115 In			1363445.355	ug/L	1326281.049
[208 207.977	1.747414	1.464	24350.502	ug/L	356.677
[207 Pb	1.778615	1.677	9995.177	ug/L	171.669
[206 Pb	1.555252	1.146	11640.305	ug/L	198.003
[> 169 Tm			1254444.659	ug/L	1232272.007
[106 Pd	1.226786	9.708	207.003	ug/L	9.667
[83 Kr	14.093895	221.467	1309.801	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	96.550

Report Date/Time: Monday, November 01, 2010 16:33:02

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Sample ID: L84RC

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	101.086
	Cd	111	
	Sb	121	
>	In-1	115	102.802
|	Pb	208	
>	Tm-1	169	101.799
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	101.086
|	Cd	108	
|	Cd	114	
>	In	115	102.802
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	101.799
|	Pd	106	
|	Kr	83	

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

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 17:01:07

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCV 5.044

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

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

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1305756.272	ug/L	1479596.652
> 6 Li-1			662755.435	ug/L	672930.807
9 Be	96.125129	0.270	24728.288	ug/L	2.000
44 Ca	4904.619309	1.501	1104395.045	ug/L	24305.328
52 Cr	99.957630	1.376	729965.336	ug/L	18978.266
55 Mn	101.543494	0.483	1169812.725	ug/L	2088.343
59 Co	102.105428	0.633	889975.450	ug/L	134.335
60 Ni	102.790211	1.074	191374.909	ug/L	120.449
75 As	95.767468	0.702	212297.784	ug/L	19773.157
82 Se	91.759790	0.471	19296.468	ug/L	1869.195
> 72 Ge-1			1472781.157	ug/L	1658125.622
111 Cd	98.316853	0.913	151032.188	ug/L	34.250
121 Sb	50.197673	0.532	274691.688	ug/L	333.675
> 115 In-1			1179679.946	ug/L	1326281.049
208 Pb	98.951253	0.301	2428286.235	ug/L	726.349
> 169 Tm-1			1156771.534	ug/L	1232272.007
50 Cr	101.924986	4.296	17556.247	ug/L	-141.460
53 Cr	87.823709	1.983	46839.801	ug/L	22240.700
61 Ni	99.238998	1.898	4233.607	ug/L	1269.022
76 Se	-67.822268	51.798	-207755.993	ug/L	-231135.186
77 Se	89.223905	1.415	21086.093	ug/L	8280.771
78 Se	90.559551	0.665	61904.971	ug/L	20421.684
79 Br	1168.894839	16.847	141711.582	ug/L	82440.160
> 72 Ge			1472781.157	ug/L	1658125.622
108 Cd	95.035742	0.547	10415.012	ug/L	3.532
114 Cd	98.773584	1.039	362954.127	ug/L	65.063
> 115 In			1179679.946	ug/L	1326281.049
208 207.977	98.695674	0.675	1249757.450	ug/L	356.677
207 Pb	99.639329	0.215	507513.367	ug/L	171.669
206 Pb	98.911722	0.417	671015.419	ug/L	198.003
> 169 Tm			1156771.534	ug/L	1232272.007
106 Pd	87.040724	1.894	14010.744	ug/L	9.667
83 Kr	-308.048525	24.891	1149.771	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	98.488

Report Date/Time: Monday, November 01, 2010 17:02:35

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Sample ID: CCV 5

	Be	9	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	As	75	
	Se	82	
>	Ge-1	72	88.822
	Cd	111	
	Sb	121	
>	In-1	115	88.946
|	Pb	208	
>	Tm-1	169	93.873
|	Cr	50	
|	Cr	53	
|	Ni	61	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
>	Ge	72	88.822
|	Cd	108	
|	Cd	114	
>	In	115	88.946
|	207.977	208	
|	Pb	207	
|	Pb	206	
>	Tm	169	93.873
|	Pd	106	
|	Kr	83	

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

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 01, 2010 17:04:48

Method File: E:\elandata\Method\0302324.mth

Dataset File: E:\elandata\Dataset\101101A2\CCB 5.045

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

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

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1333908.136	ug/L	1479596.652
> 6 Li-1			656772.047	ug/L	672930.807
[9 Be	0.000131	5060.745	2.000	ug/L	2.000
[44 Ca	14.273789	3.111	25125.504	ug/L	24305.328
| 52 Cr	0.044733	72.101	17443.879	ug/L	18978.266
| 55 Mn	0.271635	1.860	5056.675	ug/L	2088.343
| 59 Co	0.000054	2261.671	121.668	ug/L	134.335
| 60 Ni	0.006864	24.280	121.619	ug/L	120.449
| 75 As	-0.286161	124.061	17243.205	ug/L	19773.157
| 82 Se	0.074427	169.586	1700.597	ug/L	1869.195
> 72 Ge-1			1495754.439	ug/L	1658125.622
[111 Cd	-0.006672	34.591	20.491	ug/L	34.250
| 121 Sb	-0.031045	6.995	128.668	ug/L	333.675
> 115 In-1			1194720.930	ug/L	1326281.049
[208 Pb	-0.000833	165.628	653.346	ug/L	726.349
> 169 Tm-1			1142451.151	ug/L	1232272.007
[50 Cr	0.088512	114.861	-112.003	ug/L	-141.460
| 53 Cr	-8.149699	19.320	17509.894	ug/L	22240.700
| 61 Ni	-1.497846	194.482	1097.266	ug/L	1269.022
| 76 Se	-43.751369	148.358	-210115.606	ug/L	-231135.186
| 77 Se	-1.283341	37.630	7269.573	ug/L	8280.771
| 78 Se	-1.193836	25.400	17835.399	ug/L	20421.684
| 79 Br	90.552107	7.124	79750.281	ug/L	82440.160
> 72 Ge			1495754.439	ug/L	1658125.622
[108 Cd	0.043608	73.412	8.025	ug/L	3.532
| 114 Cd	-0.000690	234.187	56.011	ug/L	65.063
> 115 In			1194720.930	ug/L	1326281.049
[208 207.977	0.000179	1286.749	333.009	ug/L	356.677
| 207 Pb	-0.002751	31.239	145.335	ug/L	171.669
| 206 Pb	-0.001281	35.365	175.002	ug/L	198.003
> 169 Tm			1142451.151	ug/L	1232272.007
| 106 Pd	-0.014506	107.855	7.333	ug/L	9.667
| 83 Kr	-209.393273	31.073	1198.780	ug/L	1302.800

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	97.599

[	Be	9	
[	Ca	44	
[	Cr	52	
[	Mn	55	
[	Co	59	
[	Ni	60	
[	As	75	
[	Se	82	
>	Ge-1	72	90.208
[	Cd	111	
[	Sb	121	
>	In-1	115	90.081
[	Pb	208	
>	Tm-1	169	92.711
[	Cr	50	
[	Cr	53	
[	Ni	61	
[	Se	76	
[	Se	77	
[	Se	78	
[	Br	79	
>	Ge	72	90.208
[	Cd	108	
[	Cd	114	
>	In	115	90.081
[	207.977	208	
[	Pb	207	
[	Pb	206	
>	Tm	169	92.711
[	Pd	106	
[	Kr	83	

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	11/01/10 14:00	<input type="checkbox"/>
2	Blank				1.0	11/01/10 14:04	<input type="checkbox"/>
3	Standard1				1.0	11/01/10 14:08	<input type="checkbox"/>
4	ICV				1.0	11/01/10 14:11	<input type="checkbox"/>
5	ICB				1.0	11/01/10 14:15	<input type="checkbox"/>
6	LLSTD1				1.0	11/01/10 14:28	<input type="checkbox"/>
7	LLSTD2				1.0	11/01/10 14:31	<input type="checkbox"/>
8	ICSA				1.0	11/01/10 14:35	<input type="checkbox"/>
9	ICSAB				1.0	11/01/10 14:38	<input type="checkbox"/>
10	Rinse				1.0	11/01/10 15:06	<input type="checkbox"/>
11	CCV 1				1.0	11/01/10 15:14	<input type="checkbox"/>
12	CCB 1				1.0	11/01/10 15:17	<input type="checkbox"/>
15	CCV 2				1.0	11/01/10 15:21	<input type="checkbox"/>
16	CCB 2				1.0	11/01/10 15:25	<input type="checkbox"/>
17	L9A3TB	G0J290000	0302324	2A	1.0	11/01/10 15:28	<input type="checkbox"/>
18	L9A3TC	G0J290000	0302324	2A	1.0	11/01/10 15:32	<input type="checkbox"/>
19	L9A3TL	G0J290000	0302324	2A	1.0	11/01/10 15:36	<input type="checkbox"/>
20	L84MW	G0J260480-2	0302324	2A	1.0	11/01/10 15:39	<input type="checkbox"/>
21	L84MWP5	G0J260480	0302324		5.0	11/01/10 15:43	<input type="checkbox"/>
22	L84MWZ	G0J260480-2	0302324		1.0	11/01/10 15:47	<input type="checkbox"/>
23	L84M3	G0J260480-4	0302324	2A	1.0	11/01/10 15:50	<input type="checkbox"/>
24	L84NW	G0J260480-11	0302324	2A	1.0	11/01/10 15:54	<input type="checkbox"/>
25	L84N2	G0J260480-12	0302324	2A	1.0	11/01/10 15:58	<input type="checkbox"/>
26	L84QX	G0J260480-15	0302324	2A	1.0	11/01/10 16:01	<input type="checkbox"/>
27	CCV 3				1.0	11/01/10 16:05	<input type="checkbox"/>
28	CCB 3				1.0	11/01/10 16:09	<input type="checkbox"/>
31	CCV 4				1.0	11/01/10 16:12	<input type="checkbox"/>
32	CCB 4				1.0	11/01/10 16:16	<input type="checkbox"/>
33	L84Q2	G0J260480-16	0302324	2A	1.0	11/01/10 16:20	<input type="checkbox"/>
34	L84Q6	G0J260480-20	0302324	2A	1.0	11/01/10 16:27	<input type="checkbox"/>
35	L84RC	G0J260480-23	0302324	2A	1.0	11/01/10 16:31	<input type="checkbox"/>
36	L8584B	G0J270000	0300271	DF	1.0	11/01/10 16:35	<input type="checkbox"/>
37	L8584C	G0J270000	0300271	DF	1.0	11/01/10 16:39	<input type="checkbox"/>
38	L8584L	G0J270000	0300271	DF	1.0	11/01/10 16:42	<input type="checkbox"/>
39	L8NPWS	G0J180500-2	0300271	DF	1.0	11/01/10 16:46	<input type="checkbox"/>
40	L8NPWD	G0J180500-2	0300271	DF	1.0	11/01/10 16:50	<input type="checkbox"/>
41	L8NPW	G0J180500-2	0300271	DF	1.0	11/01/10 16:53	<input type="checkbox"/>
42	L8NPWP5	G0J180500	0300271		5.0	11/01/10 16:57	<input type="checkbox"/>
43	CCV 5				1.0	11/01/10 17:01	<input type="checkbox"/>
44	CCB 5				1.0	11/01/10 17:04	<input type="checkbox"/>
45	CCV 6				1.0	11/01/10 17:08	<input type="checkbox"/>
46	CCB 6				1.0	11/01/10 17:12	<input type="checkbox"/>
47	L8NPO	G0J180500-4	0300271	DF	1.0	11/01/10 17:15	<input type="checkbox"/>
48	L8NP3	G0J180500-6	0300271	DF	1.0	11/01/10 17:19	<input type="checkbox"/>
49	L8NP6	G0J180500-8	0300271	DF	1.0	11/01/10 17:23	<input type="checkbox"/>
50	L8NP8	G0J180500-10	0300271	DF	1.0	11/01/10 17:26	<input type="checkbox"/>

TAL West Sac

RUN SUMMARY

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

Instrument: M02

Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
51	L8NQA	G0J180500-12	0300271	DF	1.0	11/01/10 17:30	<input type="checkbox"/>
52	L8NQE	G0J180500-14	0300271	DF	1.0	11/01/10 17:34	<input type="checkbox"/>
53	L8NQG	G0J180500-16	0300271	DF	1.0	11/01/10 17:37	<input type="checkbox"/>
54	CCV 7				1.0	11/01/10 17:41	<input type="checkbox"/>
55	CCB 7				1.0	11/01/10 17:45	<input type="checkbox"/>
58	CCV 8				1.0	11/01/10 17:48	<input type="checkbox"/>
59	CCB 8				1.0	11/01/10 17:52	<input type="checkbox"/>
60	L8WN6B	G0J210000	0294388	DE	1.0	11/01/10 17:56	<input type="checkbox"/>
61	L8WN6C	G0J210000	0294388	DE	1.0	11/01/10 18:00	<input type="checkbox"/>
62	L8WN6L	G0J210000	0294388	DE	1.0	11/01/10 18:03	<input type="checkbox"/>
63	L88E2B	G0J280000	0301292	EC	1.0	11/01/10 18:07	<input type="checkbox"/>
64	L88E2C	G0J280000	0301292	EC	1.0	11/01/10 18:11	<input type="checkbox"/>
65	L88E2L	G0J280000	0301292	EC	1.0	11/01/10 18:14	<input type="checkbox"/>
66	CCV 9				1.0	11/01/10 18:18	<input type="checkbox"/>
67	CCB 9				1.0	11/01/10 18:22	<input type="checkbox"/>
68	L8NPX	G0J180500-3	0294388	DE	1.0	11/01/10 18:25	<input type="checkbox"/>
69	L8NP1	G0J180500-5	0294388	DE	1.0	11/01/10 18:29	<input type="checkbox"/>
70	L8NP4	G0J180500-7	0294388	DE	1.0	11/01/10 18:33	<input type="checkbox"/>
71	L8NP7	G0J180500-9	0294388	DE	1.0	11/01/10 18:36	<input type="checkbox"/>
72	L8NP9	G0J180500-11	0294388	DE	1.0	11/01/10 18:40	<input type="checkbox"/>
73	L8NQD	G0J180500-13	0294388	DE	1.0	11/01/10 18:44	<input type="checkbox"/>
74	L8NQF	G0J180500-15	0294388	DE	1.0	11/01/10 18:48	<input type="checkbox"/>
75	CCV 10				1.0	11/01/10 18:51	<input type="checkbox"/>
76	CCB 10				1.0	11/01/10 18:55	<input type="checkbox"/>
79	CCV 11				1.0	11/01/10 18:59	<input type="checkbox"/>
80	CCB 11				1.0	11/01/10 19:02	<input type="checkbox"/>
81	L8NPX	G0J180500-3	0294388	DE	1.0	11/01/10 19:06	<input type="checkbox"/>
82	L8NP1	G0J180500-5	0294388	DE	1.0	11/01/10 19:10	<input type="checkbox"/>
83	L8NP4	G0J180500-7	0294388	DE	1.0	11/01/10 19:13	<input type="checkbox"/>
84	L8NP7	G0J180500-9	0294388	DE	1.0	11/01/10 19:17	<input type="checkbox"/>
85	L8NP9	G0J180500-11	0294388	DE	1.0	11/01/10 19:21	<input type="checkbox"/>
86	L8NQD	G0J180500-13	0294388	DE	1.0	11/01/10 19:24	<input type="checkbox"/>
87	L8NQF	G0J180500-15	0294388	DE	1.0	11/01/10 19:28	<input type="checkbox"/>
88	CCV 12				1.0	11/01/10 19:32	<input type="checkbox"/>
89	CCB 12				1.0	11/01/10 19:35	<input type="checkbox"/>
92	CCV 13				1.0	11/01/10 19:39	<input type="checkbox"/>
93	CCB 13				1.0	11/01/10 19:43	<input type="checkbox"/>
94	L8NPX	G0J180500-3	0294388	DE	1.0	11/01/10 19:46	<input type="checkbox"/>
95	L8NP1	G0J180500-5	0294388	DE	1.0	11/01/10 19:50	<input type="checkbox"/>
96	L8NP4	G0J180500-7	0294388	DE	1.0	11/01/10 19:54	<input type="checkbox"/>
97	L8NP7	G0J180500-9	0294388	DE	1.0	11/01/10 19:58	<input type="checkbox"/>
98	L8NP9	G0J180500-11	0294388	DE	1.0	11/01/10 20:01	<input type="checkbox"/>
99	L8NQD	G0J180500-13	0294388	DE	1.0	11/01/10 20:05	<input type="checkbox"/>
100	L8NQF	G0J180500-15	0294388	DE	1.0	11/01/10 20:09	<input type="checkbox"/>
101	CCV 14				1.0	11/01/10 20:12	<input type="checkbox"/>
102	CCB 14				1.0	11/01/10 20:16	<input type="checkbox"/>

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 11/02/10 10:23:38
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File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
105	CCV 15				1.0	11/01/10 20:20	<input type="checkbox"/>
106	CCB 15				1.0	11/01/10 20:23	<input type="checkbox"/>
107	L8NPX	G0J180500-3	0294388	DE	1.0	11/01/10 20:27	<input type="checkbox"/>
108	L8NP1	G0J180500-5	0294388	DE	1.0	11/01/10 20:31	<input type="checkbox"/>
109	L8NP4	G0J180500-7	0294388	DE	1.0	11/01/10 20:35	<input type="checkbox"/>
110	L8NP7	G0J180500-9	0294388	DE	1.0	11/01/10 20:38	<input type="checkbox"/>
111	L8NP9	G0J180500-11	0294388	DE	1.0	11/01/10 20:42	<input type="checkbox"/>
112	CCV 16				1.0	11/01/10 20:46	<input type="checkbox"/>
113	CCB 16				1.0	11/01/10 20:49	<input type="checkbox"/>
116	CCV 17				1.0	11/01/10 20:53	<input type="checkbox"/>
117	CCB 17				1.0	11/01/10 20:57	<input type="checkbox"/>
118	L8NQD	G0J180500-13	0294388	DE	1.0	11/01/10 21:01	<input type="checkbox"/>
119	L8NQF	G0J180500-15	0294388	DE	1.0	11/01/10 21:04	<input type="checkbox"/>
120	L8NPVS	G0J180500-1	0294388	DE	1.0	11/01/10 21:08	<input type="checkbox"/>
121	L8NPVD	G0J180500-1	0294388	DE	1.0	11/01/10 21:12	<input type="checkbox"/>
122	L8NPV	G0J180500-1	0294388	DE	1.0	11/01/10 21:15	<input type="checkbox"/>
123	L8NPVP5	G0J180500	0294388		5.0	11/01/10 21:19	<input type="checkbox"/>
124	CCV 18				1.0	11/01/10 21:23	<input type="checkbox"/>
125	CCB 18				1.0	11/01/10 21:26	<input type="checkbox"/>
126	CCV 19				1.0	11/01/10 21:30	<input type="checkbox"/>
127	CCB 19				1.0	11/01/10 21:34	<input type="checkbox"/>
128	L8LC1	G0J150622-1	0301292	EC	1.0	11/01/10 21:38	<input type="checkbox"/>
129	L8LC1P5	G0J150622	0301292		5.0	11/01/10 21:41	<input type="checkbox"/>
130	L8LC1X	G0J150622-1	0301292	EC	1.0	11/01/10 21:45	<input type="checkbox"/>
131	L8LC1Z	G0J150622-1	0301292		1.0	11/01/10 21:49	<input type="checkbox"/>
132	L8LC3	G0J150622-2	0301292	EC	1.0	11/01/10 21:52	<input type="checkbox"/>
133	L8LC4	G0J150622-3	0301292	EC	1.0	11/01/10 21:56	<input type="checkbox"/>
134	CCV 20				1.0	11/01/10 22:00	<input type="checkbox"/>
135	CCB 20				1.0	11/01/10 22:04	<input type="checkbox"/>
136	CCV 21				1.0	11/01/10 22:07	<input type="checkbox"/>
137	CCB 21				1.0	11/01/10 22:11	<input type="checkbox"/>
138	L8LC5	G0J150622-4	0301292	EC	1.0	11/01/10 22:15	<input type="checkbox"/>
139	L8LC6	G0J150622-5	0301292	EC	1.0	11/01/10 22:18	<input type="checkbox"/>
140	L8LC7	G0J150622-6	0301292	EC	1.0	11/01/10 22:22	<input type="checkbox"/>
141	L8LC8	G0J150622-7	0301292	EC	1.0	11/01/10 22:26	<input type="checkbox"/>
142	L8LC9	G0J150622-8	0301292	EC	1.0	11/01/10 22:29	<input type="checkbox"/>
143	L8LDC	G0J150622-9	0301292	EC	1.0	11/01/10 22:33	<input type="checkbox"/>
144	L8LDD	G0J150622-10	0301292	EC	1.0	11/01/10 22:37	<input type="checkbox"/>
145	CCV 22				1.0	11/01/10 22:40	<input type="checkbox"/>
146	CCB 22				1.0	11/01/10 22:44	<input type="checkbox"/>
149	CCV 23				1.0	11/01/10 22:48	<input type="checkbox"/>
150	CCB 23				1.0	11/01/10 22:52	<input type="checkbox"/>
151	L8LC1	G0J150622-1	0301292	EC	1.0	11/01/10 22:55	<input type="checkbox"/>
152	L8LC1P5	G0J150622	0301292		5.0	11/01/10 22:59	<input type="checkbox"/>
153	L8LC1X	G0J150622-1	0301292	EC	1.0	11/01/10 23:03	<input type="checkbox"/>
154	L8LC1Z	G0J150622-1	0301292		1.0	11/01/10 23:06	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)	Instrument: M02	Reported: 11/02/10 10:23:38
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File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
155	L8LC3	G0J150622-2	0301292	EC	1.0	11/01/10 23:10	<input type="checkbox"/>
156	L8LC4	G0J150622-3	0301292	EC	1.0	11/01/10 23:14	<input type="checkbox"/>
157	CCV 24				1.0	11/01/10 23:18	<input type="checkbox"/>
158	CCB 24				1.0	11/01/10 23:21	<input type="checkbox"/>
159	CCV 25				1.0	11/01/10 23:25	<input type="checkbox"/>
160	CCB 25				1.0	11/01/10 23:29	<input type="checkbox"/>
161	L8LC5	G0J150622-4	0301292	EC	1.0	11/01/10 23:32	<input type="checkbox"/>
162	L8LC6	G0J150622-5	0301292	EC	1.0	11/01/10 23:36	<input type="checkbox"/>
163	L8LC7	G0J150622-6	0301292	EC	1.0	11/01/10 23:40	<input type="checkbox"/>
164	L8LC8	G0J150622-7	0301292	EC	1.0	11/01/10 23:44	<input type="checkbox"/>
165	L8LC9	G0J150622-8	0301292	EC	1.0	11/01/10 23:47	<input type="checkbox"/>
166	L8LDC	G0J150622-9	0301292	EC	1.0	11/01/10 23:51	<input type="checkbox"/>
167	L8LDD	G0J150622-10	0301292	EC	1.0	11/01/10 23:55	<input type="checkbox"/>
168	CCV 26				1.0	11/01/10 23:58	<input type="checkbox"/>
169	CCB 26				1.0	11/02/10 00:02	<input type="checkbox"/>

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 2X	11/01/10 14:00	98.7	96.9	99.8	99.2	<input type="checkbox"/>
2	Blank	11/01/10 14:04	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
3	Standard1	11/01/10 14:08	97.0	94.2	103.3	95.9	<input checked="" type="checkbox"/>
4	ICV	11/01/10 14:11	97.7	95.7	107.2	96.4	<input checked="" type="checkbox"/>
5	ICB	11/01/10 14:15	98.6	97.4	103.1	97.9	<input checked="" type="checkbox"/>
6	LLSTD1	11/01/10 14:28	99.8	98.8	105.6	98.3	<input checked="" type="checkbox"/>
7	LLSTD2	11/01/10 14:31	99.3	97.9	105.0	97.7	<input checked="" type="checkbox"/>
8	ICSA	11/01/10 14:35	89.8	85.8	109.5	86.6	<input checked="" type="checkbox"/>
9	ICSAB	11/01/10 14:38	92.2	86.0	115.0	86.3	<input checked="" type="checkbox"/>
10	Rinse	11/01/10 15:06	105.6	98.3	124.5	99.8	<input checked="" type="checkbox"/>
11	CCV 1	11/01/10 15:14	102.8	95.1	129.9	99.6	<input checked="" type="checkbox"/>
12	CCB 1	11/01/10 15:17	103.5	93.5	128.9	97.9	<input checked="" type="checkbox"/>
15	CCV 2	11/01/10 15:21	97.3	98.1	101.2	98.5	<input checked="" type="checkbox"/>
16	CCB 2	11/01/10 15:25	97.1	98.5	102.2	97.7	<input checked="" type="checkbox"/>
17	L9A3TB	11/01/10 15:28	98.4	101.2	101.9	100.6	<input checked="" type="checkbox"/>
18	L9A3TC	11/01/10 15:32	93.8	94.8	105.0	99.5	<input checked="" type="checkbox"/>
19	L9A3TL	11/01/10 15:36	89.6	94.1	103.4	99.0	<input checked="" type="checkbox"/>
20	L84MW	11/01/10 15:39	92.0	93.2	105.0	99.3	<input checked="" type="checkbox"/>
21	L84MWP5	11/01/10 15:43	92.9	92.2	108.3	98.0	<input type="checkbox"/>
22	L84MWZ	11/01/10 15:47	90.0	91.7	105.0	99.0	<input checked="" type="checkbox"/>
23	L84M3	11/01/10 15:50	89.1	90.7	107.9	98.7	<input checked="" type="checkbox"/>
24	L84NW	11/01/10 15:54	91.5	92.5	105.3	98.8	<input checked="" type="checkbox"/>
25	L84N2	11/01/10 15:58	92.3	94.9	106.9	99.4	<input checked="" type="checkbox"/>
26	L84QX	11/01/10 16:01	92.8	94.8	106.2	100.2	<input checked="" type="checkbox"/>
27	CCV 3	11/01/10 16:05	91.7	90.4	110.3	95.1	<input checked="" type="checkbox"/>
28	CCB 3	11/01/10 16:09	94.0	92.9	111.7	97.6	<input checked="" type="checkbox"/>
31	CCV 4	11/01/10 16:12	98.1	98.4	98.3	99.0	<input checked="" type="checkbox"/>
32	CCB 4	11/01/10 16:16	97.6	99.0	96.7	97.4	<input checked="" type="checkbox"/>
33	L84Q2	11/01/10 16:20	99.4	101.5	96.4	100.6	<input checked="" type="checkbox"/>
34	L84Q6	11/01/10 16:27	100.1	102.1	99.1	103.0	<input checked="" type="checkbox"/>
35	L84RC	11/01/10 16:31	101.1	102.8	96.6	101.8	<input checked="" type="checkbox"/>
36	L8584B	11/01/10 16:35	102.3	104.6	101.9	105.2	<input checked="" type="checkbox"/>
37	L8584C	11/01/10 16:39	98.5	101.5	101.1	102.0	<input checked="" type="checkbox"/>
38	L8584L	11/01/10 16:42	95.8	99.3	102.2	104.1	<input checked="" type="checkbox"/>
39	L8NPWS	11/01/10 16:46	83.4	86.3	108.2	90.2	<input checked="" type="checkbox"/>
40	L8NPWD	11/01/10 16:50	77.0	81.7	102.2	84.6	<input checked="" type="checkbox"/>
41	L8NPW	11/01/10 16:53	80.7	83.8	103.0	87.8	<input checked="" type="checkbox"/>
42	L8NPWP5	11/01/10 16:57	75.1	80.2	95.3	85.5	<input type="checkbox"/>
43	CCV 5	11/01/10 17:01	88.8	88.9	98.5	93.9	<input checked="" type="checkbox"/>
44	CCB 5	11/01/10 17:04	90.2	90.1	97.6	92.7	<input checked="" type="checkbox"/>
45	CCV 6	11/01/10 17:08	91.7	91.5	99.7	93.8	<input checked="" type="checkbox"/>
46	CCB 6	11/01/10 17:12	92.6	92.0	96.6	93.6	<input checked="" type="checkbox"/>
47	L8NP0	11/01/10 17:15	80.8	87.6	102.8	90.7	<input checked="" type="checkbox"/>
48	L8NP3	11/01/10 17:19	81.6	89.4	102.7	92.2	<input checked="" type="checkbox"/>
49	L8NP6	11/01/10 17:23	94.5	98.0	108.3	104.1	<input checked="" type="checkbox"/>
50	L8NP8	11/01/10 17:26	85.9	87.3	106.4	89.8	<input checked="" type="checkbox"/>

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

M02 (M02)

Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ionesh

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
51	L8NQA	11/01/10 17:30	85.5	86.8	99.3	87.2	<input checked="" type="checkbox"/>
52	L8NQE	11/01/10 17:34	84.9	87.1	107.9	90.5	<input checked="" type="checkbox"/>
53	L8NQG	11/01/10 17:37	94.4	99.3	108.9	105.2	<input checked="" type="checkbox"/>
54	CCV 7	11/01/10 17:41	96.2	96.4	98.1	96.7	<input checked="" type="checkbox"/>
55	CCB 7	11/01/10 17:45	95.9	98.1	94.5	96.1	<input checked="" type="checkbox"/>
58	CCV 8	11/01/10 17:48	98.3	98.0	99.1	98.3	<input checked="" type="checkbox"/>
59	CCB 8	11/01/10 17:52	100.3	100.2	98.6	101.0	<input checked="" type="checkbox"/>
60	L8WN6B	11/01/10 17:56	94.9	96.5	108.5	102.2	<input checked="" type="checkbox"/>
61	L8WN6C	11/01/10 18:00	93.8	95.4	109.8	100.5	<input checked="" type="checkbox"/>
62	L8WN6L	11/01/10 18:03	94.3	95.1	108.0	101.0	<input checked="" type="checkbox"/>
63	L88E2B	11/01/10 18:07	96.0	97.8	106.8	105.1	<input checked="" type="checkbox"/>
64	L88E2C	11/01/10 18:11	96.3	98.4	107.7	104.4	<input checked="" type="checkbox"/>
65	L88E2L	11/01/10 18:14	97.0	97.8	110.0	103.4	<input checked="" type="checkbox"/>
66	CCV 9	11/01/10 18:18	95.7	95.3	102.4	97.2	<input checked="" type="checkbox"/>
67	CCB 9	11/01/10 18:22	96.1	98.1	100.7	99.5	<input checked="" type="checkbox"/>
68	L8NPX	11/01/10 18:25	99.8	95.4	103.1	100.2	<input checked="" type="checkbox"/>
69	L8NP1	11/01/10 18:29	93.3	104.1	80.5	100.5	<input checked="" type="checkbox"/>
70	L8NP4	11/01/10 18:33	88.2	106.3	71.7	102.1	<input checked="" type="checkbox"/>
71	L8NP7	11/01/10 18:36	65.6	85.8	53.2	88.7	<input type="checkbox"/>
72	L8NP9	11/01/10 18:40	55.9	76.7	49.4	84.9	<input type="checkbox"/>
73	L8NQD	11/01/10 18:44	58.5	79.9	50.1	83.7	<input type="checkbox"/>
74	L8NQF	11/01/10 18:48	60.1	82.8	48.8	84.2	<input type="checkbox"/>
75	CCV 10	11/01/10 18:51	61.6	91.0	48.5	93.3	<input type="checkbox"/>
76	CCB 10	11/01/10 18:55	59.9	89.4	46.0	91.5	<input type="checkbox"/>
79	CCV 11	11/01/10 18:59	97.3	98.7	101.7	100.7	<input checked="" type="checkbox"/>
80	CCB 11	11/01/10 19:02	96.0	97.9	99.7	100.8	<input checked="" type="checkbox"/>
81	L8NPX	11/01/10 19:06	99.2	91.2	116.0	94.0	<input checked="" type="checkbox"/>
82	L8NP1	11/01/10 19:10	92.9	87.5	109.5	91.7	<input checked="" type="checkbox"/>
83	L8NP4	11/01/10 19:13	89.8	85.8	112.1	92.7	<input checked="" type="checkbox"/>
84	L8NP7	11/01/10 19:17	75.8	69.6	103.7	84.3	<input type="checkbox"/>
85	L8NP9	11/01/10 19:21	70.3	65.2	102.2	83.3	<input type="checkbox"/>
86	L8NQD	11/01/10 19:24	71.5	68.5	94.4	82.4	<input type="checkbox"/>
87	L8NQF	11/01/10 19:28	80.8	78.6	104.6	88.2	<input checked="" type="checkbox"/>
88	CCV 12	11/01/10 19:32	84.1	88.0	101.2	94.5	<input checked="" type="checkbox"/>
89	CCB 12	11/01/10 19:35	85.4	89.8	99.4	95.8	<input checked="" type="checkbox"/>
92	CCV 13	11/01/10 19:39	96.5	96.2	100.9	99.7	<input checked="" type="checkbox"/>
93	CCB 13	11/01/10 19:43	93.9	95.2	97.8	98.1	<input checked="" type="checkbox"/>
94	L8NPX	11/01/10 19:46	91.5	81.8	110.0	89.7	<input checked="" type="checkbox"/>
95	L8NP1	11/01/10 19:50	89.1	79.0	111.2	88.4	<input checked="" type="checkbox"/>
96	L8NP4	11/01/10 19:54	86.6	77.7	112.4	88.6	<input checked="" type="checkbox"/>
97	L8NP7	11/01/10 19:58	72.2	62.5	100.9	77.6	<input type="checkbox"/>
98	L8NP9	11/01/10 20:01	68.5	60.8	102.2	78.1	<input type="checkbox"/>
99	L8NQD	11/01/10 20:05	70.9	63.9	93.7	79.5	<input type="checkbox"/>
100	L8NQF	11/01/10 20:09	79.1	73.3	101.5	83.9	<input checked="" type="checkbox"/>
101	CCV 14	11/01/10 20:12	84.0	84.3	99.9	92.6	<input checked="" type="checkbox"/>
102	CCB 14	11/01/10 20:16	81.8	83.3	100.1	92.1	<input checked="" type="checkbox"/>

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

M02 (M02)

Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ionesh

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
105	CCV 15	11/01/10 20:20	97.0	95.4	98.4	99.5	☑
106	CCB 15	11/01/10 20:23	94.6	95.2	96.8	99.5	☑
107	L8NPX	11/01/10 20:27	92.5	80.4	105.0	88.3	☑
108	L8NP1	11/01/10 20:31	88.5	77.5	107.1	85.3	☑
109	L8NP4	11/01/10 20:35	89.2	78.5	110.2	86.4	☑
110	L8NP7	11/01/10 20:38	74.0	63.9	94.2	73.6	☐
111	L8NP9	11/01/10 20:42	70.8	62.8	93.3	74.0	☐
112	CCV 16	11/01/10 20:46	66.7	68.0	87.8	78.4	☐
113	CCB 16	11/01/10 20:49	68.0	69.2	88.3	80.8	☐
116	CCV 17	11/01/10 20:53	97.9	98.3	98.1	98.1	☑
117	CCB 17	11/01/10 20:57	98.1	100.3	99.3	100.2	☑
118	L8NQD	11/01/10 21:01	109.9	95.1	105.7	97.0	☑
119	L8NQF	11/01/10 21:04	116.8	105.4	103.6	101.0	☑
120	L8NPVS	11/01/10 21:08	109.0	95.4	110.7	94.9	☑
121	L8NPVD	11/01/10 21:12	101.8	89.5	103.0	89.9	☑
122	L8NPV	11/01/10 21:15	98.4	86.7	100.6	87.0	☑
123	L8NPVP5	11/01/10 21:19	92.7	89.8	96.2	90.8	☐
124	CCV 18	11/01/10 21:23	91.1	92.7	95.5	92.8	☑
125	CCB 18	11/01/10 21:26	93.4	95.6	96.1	96.0	☑
126	CCV 19	11/01/10 21:30	92.0	92.8	96.8	95.2	☑
127	CCB 19	11/01/10 21:34	92.0	95.2	94.7	95.0	☑
128	L8LC1	11/01/10 21:38	97.4	96.0	106.1	94.6	☑
129	L8LC1P5	11/01/10 21:41	98.2	97.7	102.5	96.9	☐
130	L8LC1X	11/01/10 21:45	99.7	96.2	108.6	93.9	☑
131	L8LC1Z	11/01/10 21:49	100.9	97.6	111.6	94.4	☑
132	L8LC3	11/01/10 21:52	102.7	97.8	109.1	94.5	☑
133	L8LC4	11/01/10 21:56	100.8	95.5	111.4	92.4	☑
134	CCV 20	11/01/10 22:00	100.3	95.8	104.5	93.9	☑
135	CCB 20	11/01/10 22:04	95.9	93.9	102.2	91.3	☑
136	CCV 21	11/01/10 22:07	94.3	93.2	102.7	92.7	☑
137	CCB 21	11/01/10 22:11	93.5	93.0	101.0	92.0	☑
138	L8LC5	11/01/10 22:15	98.8	96.0	106.6	93.1	☑
139	L8LC6	11/01/10 22:18	101.5	97.6	108.7	94.0	☑
140	L8LC7	11/01/10 22:22	101.9	96.0	111.8	93.3	☑
141	L8LC8	11/01/10 22:26	102.9	95.5	112.5	91.2	☑
142	L8LC9	11/01/10 22:29	102.2	93.1	113.7	87.6	☑
143	L8LDC	11/01/10 22:33	101.0	91.6	116.4	86.6	☑
144	L8LDD	11/01/10 22:37	101.7	94.3	109.9	89.3	☑
145	CCV 22	11/01/10 22:40	98.3	90.8	108.7	86.7	☑
146	CCB 22	11/01/10 22:44	95.8	90.2	106.5	87.0	☑
149	CCV 23	11/01/10 22:48	97.6	98.6	97.9	99.5	☑
150	CCB 23	11/01/10 22:52	99.2	100.7	95.3	100.9	☑
151	L8LC1	11/01/10 22:55	107.1	106.5	105.3	105.6	☑
152	L8LC1P5	11/01/10 22:59	103.7	105.4	101.8	104.4	☐
153	L8LC1X	11/01/10 23:03	109.7	108.2	105.9	105.5	☑
154	L8LC1Z	11/01/10 23:06	108.4	104.4	109.3	103.2	☑

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 11/02/10 10:23:38

File ID: 101101A2

Analyst: ioneseb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
155	L8LC3	11/01/10 23:10	110.1	108.1	107.6	104.8	<input checked="" type="checkbox"/>
156	L8LC4	11/01/10 23:14	106.7	103.9	107.9	100.4	<input checked="" type="checkbox"/>
157	CCV 24	11/01/10 23:18	104.6	101.0	102.8	99.6	<input checked="" type="checkbox"/>
158	CCB 24	11/01/10 23:21	100.0	99.2	100.5	98.5	<input checked="" type="checkbox"/>
159	CCV 25	11/01/10 23:25	96.9	96.2	99.3	95.8	<input checked="" type="checkbox"/>
160	CCB 25	11/01/10 23:29	96.8	98.7	98.6	98.3	<input checked="" type="checkbox"/>
161	L8LC5	11/01/10 23:32	103.3	103.4	101.8	102.1	<input checked="" type="checkbox"/>
162	L8LC6	11/01/10 23:36	105.8	103.9	105.7	102.1	<input checked="" type="checkbox"/>
163	L8LC7	11/01/10 23:40	106.2	103.8	104.7	101.8	<input checked="" type="checkbox"/>
164	L8LC8	11/01/10 23:44	106.9	101.4	114.1	97.8	<input checked="" type="checkbox"/>
165	L8LC9	11/01/10 23:47	101.9	95.3	107.5	89.8	<input checked="" type="checkbox"/>
166	L8LDC	11/01/10 23:51	101.7	95.2	112.4	90.4	<input checked="" type="checkbox"/>
167	L8LDD	11/01/10 23:55	100.0	96.5	106.3	90.7	<input checked="" type="checkbox"/>
168	CCV 26	11/01/10 23:58	96.7	91.9	102.5	85.9	<input checked="" type="checkbox"/>
169	CCB 26	11/02/10 00:02	94.9	90.4	100.7	86.9	<input checked="" type="checkbox"/>

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

M02

Reported: 11/02/10 10:27:58

Method: 6020

Instrument: M02

Batch: 101101A2

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101101A2, 4	11/01/2010 14:11:36	<input type="checkbox"/>
ICB	ICB	101101A2, 5	11/01/2010 14:15:17	<input type="checkbox"/>
ICSA	ICSA	101101A2, 8	11/01/2010 14:35:19	<input type="checkbox"/>
ICSAB	ICSAB	101101A2, 9	11/01/2010 14:38:58	<input type="checkbox"/>
CCV 1	CCV	101101A2, 11	11/01/2010 15:14:11	<input type="checkbox"/>
CCB 1	CCB	101101A2, 12	11/01/2010 15:17:51	<input type="checkbox"/>
CCV 2	CCV	101101A2, 15	11/01/2010 15:21:33	<input type="checkbox"/>
CCB 2	CCB	101101A2, 16	11/01/2010 15:25:13	<input type="checkbox"/>
CCV 3	CCV	101101A2, 27	11/01/2010 16:05:35	<input type="checkbox"/>
CCB 3	CCB	101101A2, 28	11/01/2010 16:09:17	<input type="checkbox"/>
CCV 4	CCV	101101A2, 31	11/01/2010 16:12:59	<input type="checkbox"/>
CCB 4	CCB	101101A2, 32	11/01/2010 16:16:40	<input type="checkbox"/>
CCV 5	CCV	101101A2, 43	11/01/2010 17:01:07	<input type="checkbox"/>
CCB 5	CCB	101101A2, 44	11/01/2010 17:04:48	<input type="checkbox"/>
CCV 6	CCV	101101A2, 45	11/01/2010 17:08:29	<input type="checkbox"/>
CCB 6	CCB	101101A2, 46	11/01/2010 17:12:10	<input type="checkbox"/>
CCV 7	CCV	101101A2, 54	11/01/2010 17:41:36	<input type="checkbox"/>
CCB 7	CCB	101101A2, 55	11/01/2010 17:45:17	<input type="checkbox"/>
CCV 8	CCV	101101A2, 58	11/01/2010 17:48:58	<input type="checkbox"/>
CCB 8	CCB	101101A2, 59	11/01/2010 17:52:38	<input type="checkbox"/>
CCV 9	CCV	101101A2, 66	11/01/2010 18:18:37	<input type="checkbox"/>
CCB 9	CCB	101101A2, 67	11/01/2010 18:22:18	<input type="checkbox"/>
CCV 10	CCV	101101A2, 75	11/01/2010 18:51:44	<input type="checkbox"/>
CCB 10	CCB	101101A2, 76	11/01/2010 18:55:25	<input type="checkbox"/>
CCV 11	CCV	101101A2, 79	11/01/2010 18:59:06	<input type="checkbox"/>
CCB 11	CCB	101101A2, 80	11/01/2010 19:02:46	<input type="checkbox"/>
CCV 12	CCV	101101A2, 88	11/01/2010 19:32:12	<input type="checkbox"/>
CCB 12	CCB	101101A2, 89	11/01/2010 19:35:53	<input type="checkbox"/>
CCV 13	CCV	101101A2, 92	11/01/2010 19:39:34	<input type="checkbox"/>
CCB 13	CCB	101101A2, 93	11/01/2010 19:43:15	<input type="checkbox"/>
CCV 14	CCV	101101A2, 101	11/01/2010 20:12:48	<input type="checkbox"/>
CCB 14	CCB	101101A2, 102	11/01/2010 20:16:31	<input type="checkbox"/>
CCV 15	CCV	101101A2, 105	11/01/2010 20:20:15	<input type="checkbox"/>
CCB 15	CCB	101101A2, 106	11/01/2010 20:23:59	<input type="checkbox"/>
CCV 16	CCV	101101A2, 112	11/01/2010 20:46:13	<input type="checkbox"/>
CCB 16	CCB	101101A2, 113	11/01/2010 20:49:57	<input type="checkbox"/>
CCV 17	CCV	101101A2, 116	11/01/2010 20:53:41	<input type="checkbox"/>
CCB 17	CCB	101101A2, 117	11/01/2010 20:57:25	<input type="checkbox"/>
CCV 18	CCV	101101A2, 124	11/01/2010 21:23:09	<input type="checkbox"/>
CCB 18	CCB	101101A2, 125	11/01/2010 21:26:53	<input type="checkbox"/>
CCV 19	CCV	101101A2, 126	11/01/2010 21:30:37	<input type="checkbox"/>
CCB 19	CCB	101101A2, 127	11/01/2010 21:34:21	<input type="checkbox"/>
CCV 20	CCV	101101A2, 134	11/01/2010 22:00:16	<input type="checkbox"/>
CCB 20	CCB	101101A2, 135	11/01/2010 22:04:00	<input type="checkbox"/>
CCV 21	CCV	101101A2, 136	11/01/2010 22:07:43	<input type="checkbox"/>
CCB 21	CCB	101101A2, 137	11/01/2010 22:11:27	<input type="checkbox"/>

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

M02

Reported: 11/02/10 10:27:58

Method: 6020

Instrument: M02

Batch: 101101A2

Sample ID	Type	File - Sequence	Analyzed Date	Q
CCV 22	CCV	101101A2, 145	11/01/2010 22:40:58	<input type="checkbox"/>
CCB 22	CCB	101101A2, 146	11/01/2010 22:44:42	<input type="checkbox"/>
CCV 23	CCV	101101A2, 149	11/01/2010 22:48:26	<input type="checkbox"/>
CCB 23	CCB	101101A2, 150	11/01/2010 22:52:09	<input type="checkbox"/>
CCV 24	CCV	101101A2, 157	11/01/2010 23:18:04	<input type="checkbox"/>
CCB 24	CCB	101101A2, 158	11/01/2010 23:21:48	<input type="checkbox"/>
CCV 25	CCV	101101A2, 159	11/01/2010 23:25:32	<input type="checkbox"/>
CCB 25	CCB	101101A2, 160	11/01/2010 23:29:16	<input type="checkbox"/>
CCV 26	CCV	101101A2, 168	11/01/2010 23:58:48	<input type="checkbox"/>
CCB 26	CCB	101101A2, 169	11/02/2010 00:02:32	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: ICV (ICV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 4 Method 6020_
 Acquired: 11/01/2010 14:11:36 M02
 Calibrated: 11/01/2010 14:04:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	18208	78.588	80.000	98.2	
7440-47-3	Chromium	52	742871	79.882	80.000	99.9	
7439-96-5	Manganese	55	1161452	80.561	80.000	101	
7440-48-4	Cobalt	59	883029	80.648	80.000	101	
7440-02-0	Nickel	60	183360	79.656	80.000	99.6	
7440-38-2	Arsenic	75	209028	78.261	80.000	97.8	
7782-49-2	Selenium	78	66869	78.882	80.000	98.6	
7782-49-2	Selenium	82	20216	77.050	80.000	96.3	
7440-43-9	Cadmium	111	157841	79.543	80.000	99.4	
7440-43-9	Cadmium	114	371019	78.888	80.000	98.6	
7440-36-0	Antimony	121	253398	36.977	40.000	92.4	
7439-92-1	Lead	208	2174790	82.021	80.000	103	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	501081				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1665097				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1462418				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1243104				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: ICB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 5 Method 6020_
 Acquired: 11/01/2010 14:15:17 M02
 Calibrated: 11/01/2010 14:04:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	1	0.00141	1.0	0.078	0.0	
7440-47-3	Chromium	52	23896	0.30094	2.0	0.92	0.0	
7439-96-5	Manganese	55	2959	0.00259	1.0	0.083	0.0	
7440-48-4	Cobalt	59	73	-0.00013	1.0	0.057	0.0	
7440-02-0	Nickel	60	119	-0.02924	2.0	0.098	0.0	
7440-38-2	Arsenic	75	20586	0.10974	2.0	0.50	0.0	
7782-49-2	Selenium	78	21569	-0.31134	2.0	1.7	0.0	
7782-49-2	Selenium	82	1982	-0.00785	2.0	1.7	0.0	
7440-43-9	Cadmium	111	18	0.00273	1.0	0.074	0.0	
7440-43-9	Cadmium	114	51	0.00308	1.0	0.074	0.0	
7440-36-0	Antimony	121	2322	0.30767	2.0	0.036	0.0	
7439-92-1	Lead	208	569	0.00125	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	481636					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1680202					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1488529					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1262740					<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: ICSA

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 8 Method 6020_
 Acquired: 11/01/2010 14:35:19 M02
 Calibrated: 11/01/2010 14:04:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	18	0.07166		*	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	51976	3.9396		*	
7439-96-5	Manganese	55	88030	6.4601		*	
7440-48-4	Cobalt	59	16674	1.6508		*	
7440-02-0	Nickel	60	2177	0.94991		*	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	20302	0.80740		*	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	21786	3.7440		*	
7782-49-2	Selenium	82	1868	0.29042		*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	1496	0.83533		*	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	114	14524	3.4382		*	
7440-36-0	Antimony	121	1655	0.24432		*	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	11352	0.45706		*	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	511579				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1529999				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1310762				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1116149				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M02

Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: ICSAB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101101A2 # 9

Method 6020_

Acquired: 11/01/2010 14:38:58

M02

Calibrated: 11/01/2010 14:04:23

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	21958	88.369	100.00	88.4	<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	857388	98.285	100.00	98.3	<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	1383457	101.81	100.00	102	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	982466	95.154	100.00	95.2	<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	199186	91.764	100.00	91.8	<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	254241	103.35	100.00	103	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	79725	109.64	100.00	110	<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	25457	105.66	100.00	106	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	169399	94.986	100.00	95.0	<input checked="" type="checkbox"/>
7440-43-9	Cadmium	114	410292	97.070	100.00	97.1	<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	306843	49.823	50.000	99.6	<input checked="" type="checkbox"/>
7439-92-1	Lead	208	2262723	95.302	100.00	95.3	<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	537374				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1570246				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1314338				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1113110				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 1 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 11 Method 6020_
 Acquired: 11/01/2010 15:14:11 M02
 Calibrated: 11/01/2010 14:04:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	26405	94.038	100.00	94.0	
7440-47-3	Chromium	52	919140	94.445	100.00	94.4	
7439-96-5	Manganese	55	1417229	93.550	100.00	93.6	
7440-48-4	Cobalt	59	1083126	94.098	100.00	94.1	
7440-02-0	Nickel	60	229858	94.983	100.00	95.0	
7440-38-2	Arsenic	75	269850	98.000	100.00	98.0	
7782-49-2	Selenium	78	82248	98.659	100.00	98.7	
7782-49-2	Selenium	82	26255	97.124	100.00	97.1	
7440-43-9	Cadmium	111	190488	96.676	100.00	96.7	
7440-43-9	Cadmium	114	450869	96.552	100.00	96.6	
7440-36-0	Antimony	121	333300	48.982	50.000	98.0	
7439-92-1	Lead	208	2667780	97.440	100.00	97.4	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	607178				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1750941				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1452203				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1283746				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M02

Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 1

Mult: 1.00

Diif: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101101A2 # 12

Method 6020_

Acquired: 11/01/2010 15:17:51

M02

Calibrated: 11/01/2010 15:14:11

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00772	1.0	0.078	0.0	
7440-47-3	Chromium	52	22031	-0.01906	2.0	0.92	0.0	
7439-96-5	Manganese	55	2600	-0.03084	1.0	0.083	0.0	
7440-48-4	Cobalt	59	82	0.00029	1.0	0.057	0.0	
7440-02-0	Nickel	60	113	-0.03412	2.0	0.098	0.0	
7440-38-2	Arsenic	75	21656	0.12219	2.0	0.50	0.0	
7782-49-2	Selenium	78	23119	0.45410	2.0	1.7	0.0	
7782-49-2	Selenium	82	2020	-0.25029	2.0	1.7	0.0	
7440-43-9	Cadmium	111	15	0.00186	1.0	0.074	0.0	
7440-43-9	Cadmium	114	49	0.00313	1.0	0.074	0.0	
7440-36-0	Antimony	121	221	0.00779	2.0	0.036	0.0	
7439-92-1	Lead	208	601	0.00242	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	602295					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1764253					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1427964					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1262607					<input checked="" type="checkbox"/>

Reviewed by:

Date:

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

M02

Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 2 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101101A2 # 15

Method 6020_

Acquired: 11/01/2010 15:21:33

M02

Calibrated: 11/01/2010 15:17:51

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	25666	96.816	100.00	96.8	
7440-47-3	Chromium	52	883543	97.909	100.00	97.9	
7439-96-5	Manganese	55	1394862	100.32	100.00	100	
7440-48-4	Cobalt	59	1067057	100.42	100.00	100	
7440-02-0	Nickel	60	228754	101.45	100.00	101	
7440-38-2	Arsenic	75	265198	100.19	100.00	100	
7782-49-2	Selenium	78	80021	98.844	100.00	98.8	
7782-49-2	Selenium	82	25117	97.315	100.00	97.3	
7440-43-9	Cadmium	111	185893	101.16	100.00	101	
7440-43-9	Cadmium	114	442065	101.64	100.00	102	
7440-36-0	Antimony	121	328432	51.082	50.000	102	
7439-92-1	Lead	208	2629595	101.72	100.00	102	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	609752				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1717302				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1400733				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1243837				<input checked="" type="checkbox"/>

Reviewed by:

Date:

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

M02

Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 2

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101101A2 # 16

Method 6020_

Acquired: 11/01/2010 15:25:13

M02

Calibrated: 11/01/2010 15:17:51

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	-0.00386	1.0	0.078	0.0	
7440-47-3	Chromium	52	21821	0.05097	2.0	0.92	0.0	
7439-96-5	Manganese	55	2498	-0.00177	1.0	0.083	0.0	
7440-48-4	Cobalt	59	88	0.00080	1.0	0.057	0.0	
7440-02-0	Nickel	60	126	0.00722	2.0	0.098	0.0	
7440-38-2	Arsenic	75	21672	0.27381	2.0	0.50	0.0	
7782-49-2	Selenium	78	22658	0.38813	2.0	1.7	0.0	
7782-49-2	Selenium	82	2015	0.23130	2.0	1.7	0.0	
7440-43-9	Cadmium	111	18	0.00180	1.0	0.074	0.0	
7440-43-9	Cadmium	114	54	0.00134	1.0	0.074	0.0	
7440-36-0	Antimony	121	214	-0.00046	2.0	0.036	0.0	
7439-92-1	Lead	208	599	0.00046	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	615566		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1712663		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1406815		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1233641		<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals) Source: MetEdit

Sample: CCV 3 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 27 Method 6020_
 Acquired: 11/01/2010 16:05:35 M02
 Calibrated: 11/01/2010 15:17:51 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	25777	89.262	100.00	89.3	
7440-47-3	Chromium	52	801926	94.283	100.00	94.3	
7439-96-5	Manganese	55	1265077	96.594	100.00	96.6	
7440-48-4	Cobalt	59	957295	95.652	100.00	95.7	
7440-02-0	Nickel	60	204457	96.283	100.00	96.3	
7440-38-2	Arsenic	75	242576	97.060	100.00	97.1	
7782-49-2	Selenium	78	72990	94.525	100.00	94.5	
7782-49-2	Selenium	82	22923	94.075	100.00	94.1	
7440-43-9	Cadmium	111	168005	99.268	100.00	99.3	
7440-43-9	Cadmium	114	401889	100.32	100.00	100	
7440-36-0	Antimony	121	299274	50.525	50.000	101	
7439-92-1	Lead	208	2545126	102.07	100.00	102	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	664476				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1617648				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1290862				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1200497				<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 3

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 28 Method 6020_
 Acquired: 11/01/2010 16:09:17 M02
 Calibrated: 11/01/2010 16:05:35 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	-0.00467	1.0	0.078	0.0	
7440-47-3	Chromium	52	18978	-0.20178	2.0	0.92	0.0	
7439-96-5	Manganese	55	2088	-0.02655	1.0	0.083	0.0	
7440-48-4	Cobalt	59	134	0.00560	1.0	0.057	0.0	
7440-02-0	Nickel	60	120	0.00634	2.0	0.098	0.0	
7440-38-2	Arsenic	75	19773	-0.24190	2.0	0.50	0.0	
7782-49-2	Selenium	78	20422	-2.3134	2.0	1.7	0.0	
7782-49-2	Selenium	82	1869	-0.12333	2.0	1.7	0.0	
7440-43-9	Cadmium	111	34	0.01160	1.0	0.074	0.0	
7440-43-9	Cadmium	114	65	0.00474	1.0	0.074	0.0	
7440-36-0	Antimony	121	334	0.02131	2.0	0.036	0.0	
7439-92-1	Lead	208	726	0.00546	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	672931		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1658126		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1326281		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1232272		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 4 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 31 Method 6020_
 Acquired: 11/01/2010 16:12:59 M02
 Calibrated: 11/01/2010 16:05:35 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	25842	100.62	100.00	101	
7440-47-3	Chromium	52	808617	100.31	100.00	100	
7439-96-5	Manganese	55	1286154	101.13	100.00	101	
7440-48-4	Cobalt	59	981331	101.98	100.00	102	
7440-02-0	Nickel	60	209847	102.10	100.00	102	
7440-38-2	Arsenic	75	241546	98.972	100.00	99.0	
7782-49-2	Selenium	78	71833	97.108	100.00	97.1	
7782-49-2	Selenium	82	22593	97.850	100.00	97.9	
7440-43-9	Cadmium	111	169411	99.663	100.00	99.7	
7440-43-9	Cadmium	114	407913	100.32	100.00	100	
7440-36-0	Antimony	121	302268	49.922	50.000	99.8	
7439-92-1	Lead	208	2550519	98.572	100.00	98.6	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	661711		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1625829		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1305476		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1219674		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

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

M02

Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 4

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02

Channel 262

File: 101101A2 # 32

Method 6020_

Acquired: 11/01/2010 16:16:40

M02

Calibrated: 11/01/2010 16:05:35

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00684	1.0	0.078	0.0	
7440-47-3	Chromium	52	18473	-0.00613	2.0	0.92	0.0	
7439-96-5	Manganese	55	2011	-0.00214	1.0	0.083	0.0	
7440-48-4	Cobalt	59	137	0.00064	1.0	0.057	0.0	
7440-02-0	Nickel	60	118	0.00020	2.0	0.098	0.0	
7440-38-2	Arsenic	75	19736	0.19752	2.0	0.50	0.0	
7782-49-2	Selenium	78	20412	0.90865	2.0	1.7	0.0	
7782-49-2	Selenium	82	1826	0.00662	2.0	1.7	0.0	
7440-43-9	Cadmium	111	30	-0.00232	1.0	0.074	0.0	
7440-43-9	Cadmium	114	77	0.00300	1.0	0.074	0.0	
7440-36-0	Antimony	121	275	-0.00910	2.0	0.036	0.0	
7439-92-1	Lead	208	731	0.00094	1.0	0.066	0.0	
CASN	ISTD Name	M/S	Area	Amount				Q
LITHIUM6	Lithium-6	6	650828					<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1618248					<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1312518					<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1200103					<input checked="" type="checkbox"/>

Reviewed by:

Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 5 (CCV)

Mult: 1.00

Dilf: 1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 43 Method 6020_
 Acquired: 11/01/2010 17:01:07 M02
 Calibrated: 11/01/2010 16:05:35 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	24728	96.125	100.00	96.1	
7440-47-3	Chromium	52	729965	99.958	100.00	100	
7439-96-5	Manganese	55	1169813	101.54	100.00	102	
7440-48-4	Cobalt	59	889975	102.11	100.00	102	
7440-02-0	Nickel	60	191375	102.79	100.00	103	
7440-38-2	Arsenic	75	212298	95.767	100.00	95.8	
7782-49-2	Selenium	78	61905	90.560	100.00	90.6	
7782-49-2	Selenium	82	19296	91.760	100.00	91.8	
7440-43-9	Cadmium	111	151032	98.317	100.00	98.3	
7440-43-9	Cadmium	114	362954	98.774	100.00	98.8	
7440-36-0	Antimony	121	274692	50.198	50.000	100	
7439-92-1	Lead	208	2428286	98.951	100.00	99.0	
CASN	ISTD Name	M/S	Area	Amount			Q
LITHIUM6	Lithium-6	6	662755				<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1472781				<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1179680				<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1156772				<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:27:58

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 5

Mult: 1.00

Dilf: 1.00

Divs: 1.00

Divs: 1.00

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 44 Method 6020_
 Acquired: 11/01/2010 17:04:48 M02
 Calibrated: 11/01/2010 16:05:35 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	0.00013	1.0	0.078	0.0	
7440-47-3	Chromium	52	17444	0.04473	2.0	0.92	0.0	
7439-96-5	Manganese	55	5057	0.27164	1.0	0.083	0.0	
7440-48-4	Cobalt	59	122	0.00005	1.0	0.057	0.0	
7440-02-0	Nickel	60	122	0.00686	2.0	0.098	0.0	
7440-38-2	Arsenic	75	17243	-0.28616	2.0	0.50	0.0	
7782-49-2	Selenium	78	17835	-1.1938	2.0	1.7	0.0	
7782-49-2	Selenium	82	1701	0.07443	2.0	1.7	0.0	
7440-43-9	Cadmium	111	20	-0.00667	1.0	0.074	0.0	
7440-43-9	Cadmium	114	56	-0.00069	1.0	0.074	0.0	
7440-36-0	Antimony	121	129	-0.03105	2.0	0.036	0.0	
7439-92-1	Lead	208	653	-0.00083	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	656772		<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1495754		<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1194721		<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1142451		<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:40:02

Department: 120 (Metals)

Source: MetEdit

Sample: L84MWP5

Serial Dilution: 5.00

Sample Dilution: 1.00

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 21 Method 6020_
 Acquired: 11/01/2010 15:43:38 M02 Matrix: AIR
 Calibrated: 11/01/2010 15:17:51 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	3	-0.01025	0.00068	1600		*	
7440-47-3	Chromium	52	20980	0.29727	0.77697	61.7		*	
7439-96-5	Manganese	55	660767	248.35	246.32	0.827	0.14	0.8	<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	2089	0.99213	0.99145	0.0690		*	
7440-02-0	Nickel	60	470	0.84809	0.77205	9.85		*	
7440-38-2	Arsenic	75	20170	0.08639	0.24406	64.6	0.41	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	20410	-9.7082	-1.8000			*	
7782-49-2	Selenium	82	1819	-1.2896	-0.36065			*	
7440-43-9	Cadmium	111	51	0.10725	0.11171	4.00		*	
7440-43-9	Cadmium	114	122	0.09364	0.08875	5.51		*	
7440-36-0	Antimony	121	611	0.33747	0.29168	15.7		*	
7439-92-1	Lead	208	7510	1.3465	1.3431	0.258		*	
CASN	ISTD Name	M/S	Area	Amount					Q
LITHIUM6	Lithium-6	6	652165						<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1639858						<input type="checkbox"/>
7440-74-6	Indium	115	1315970						<input type="checkbox"/>
7440-30-4	Thulium	169	1236739						<input type="checkbox"/>

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: _____ Date: _____

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 11/02/10 10:40:52

Department: 120 (Metals)

Source: MetEdit

Sample: L84MWZ

Spike Dilution: 1.00

Sample Dilution: 1.00

Instrument: ICPMS M02 Channel 262
 File: 101101A2 # 22 Method 6020_
 Acquired: 11/01/2010 15:47:17 M02 Matrix: AIR
 Calibrated: 11/01/2010 15:17:51 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	51470	187.15	0.00068	93.6	200		<input checked="" type="checkbox"/>
7440-47-3	Chromium	52	1630091	197.76	0.77697	98.5	200		<input checked="" type="checkbox"/>
7439-96-5	Manganese	55	5728392	446.09	246.32	99.9	200		<input checked="" type="checkbox"/>
7440-48-4	Cobalt	59	2033744	206.96	0.99145	103	200		<input checked="" type="checkbox"/>
7440-02-0	Nickel	60	425041	203.87	0.77205	102	200		<input checked="" type="checkbox"/>
7440-38-2	Arsenic	75	460677	195.79	0.24406	97.8	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	122258	188.54	-1.8000	94.3	200		<input checked="" type="checkbox"/>
7782-49-2	Selenium	82	43011	187.23	-0.36065	93.6	200		<input checked="" type="checkbox"/>
7440-43-9	Cadmium	111	348824	203.08	0.11171	101	200		<input checked="" type="checkbox"/>
7440-43-9	Cadmium	114	832466	204.74	0.08875	102	200		<input checked="" type="checkbox"/>
7440-36-0	Antimony	121	1232188	205.07	0.29168	102	200		<input checked="" type="checkbox"/>
7439-92-1	Lead	208	5539490	213.37	1.3431	106	200		<input checked="" type="checkbox"/>
CASN	ISTD Name	M/S	Area	Amount					Q
LITHIUM6	Lithium-6	6	632450						<input checked="" type="checkbox"/>
7440-56-4	Germanium	72	1588268						<input checked="" type="checkbox"/>
7440-74-6	Indium	115	1309845						<input checked="" type="checkbox"/>
7440-30-4	Thulium	169	1249378						<input checked="" type="checkbox"/>

Reviewed by: _____ Date: _____

Sample Preparation Log

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

Date: 29-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
G0J290000	324	L9A3TB	2A	NA	NA	NA	100 mL	302324	1.2
G0J290000	324	L9A3TC	2A	NA	NA	NA	100 mL	302324	1.2
G0J290000	324	L9A3TL	2A	NA	NA	NA	100 mL	302324	1.2
G0J260480	2	L84MW	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	4	L84M3	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	11	L84NW	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	12	L84N2	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	15	L84QX	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	16	L84Q2	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	20	L84Q6	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	1.2
G0J260480	23	L84RC	2A	9 inches	0.75 inches	0.75 inches	100 mL	302324	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) 0302324 Test: 6020
 Prep Date: 10/29/10 Holding Times: 4/20/11 NCM: Y

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: TR Date: 10/29/10
 2nd Level Reviewer: SH Date: 11/2/10

Comments:

Metals Spiking Documentation Form

Lot #(s): 60J260480

Batch Number: 0302324 EPA Analytical Method ID: 6020 Spiked Date: 10/29/10

MS Sample(s): N/A EPA Prep Method ID: WS-IP-0010 Hot Plate Microwave ID: Met IV

Analyst Initial/Date: JZ 10/29/10 Witness Initial/Date: JZ 10/29/10 Hot Plate Temp Initial: 930C Final: 930C

Correct Folder ID Witness: N/A Digestion Cup Lot # A909LS164 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, Tl 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				
	Si H2O/Tr HF	Si	1,000				JZ 10/29/10
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, Tl	500 100 25	3189-6-5	200.01	N/A	8/31/11
X	TACA-2 5% HNO ₃	Mo, Sb, Sn, Tl	100	3189-6-6	200.01	N/A	8/31/11
	Misc. Elements						JZ 10/29/10

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	4028-26-2		1.1 HCl	In-House	JZ 10/29/10

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: G0J260480 Batch #: 0302353

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 10/29/10 ANALYST: ECJ

LEVEL 1 ANALYSIS REVIEW

	YES	NO	NA
1. Samples are in good condition.	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed By & Date: ECJ 10/29/10

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, Anomalies, Holding times checked and approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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: SV 11/4/10

Comments: Desiccator: ZA

* Note: Sample # 23 data sheet needs to be fixed. Sample result is being rounded. It has been split fix but still has error of rounding to 3 sig figs. SV. 11-4-10

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 10/29/10
Time: 16:56:46

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

<u>TOTAL</u>	<u>SAMPLE</u>		<u>RE-RUN</u>	<u>RE-RUN</u>	<u>MISC</u>	<u>TOTAL</u>	<u>EXPANDED</u>
<u>NUMBER</u>	<u>NUMBER</u>	<u>QC</u>	<u>MATRIX</u>	<u>OTHER</u>	<u>NUMBER</u>	<u>HOURS</u>	<u>DELIVERABLE</u>

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
 QC BATCH #: 0302353 INITIALS: DATA ENTRY:
 PREP DATE: 10/28/10 9:01 PREP SCJ INITIALS SCJ
 COMP DATE: 10/29/10 15:35 ANAL SCJ DATE 10/29/10
 USER: LARSONE

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
L84MW-1-AA	G-0J260480-002	XX S 88 AO 3W	M	<u>10/29/10</u>	DW-10202010B
L84M3-1-AA	G-0J260480-004	XX S 88 AO 3W	M	<u>10/29/10</u>	UW-10202010B
L84NW-1-AA	G-0J260480-011	XX S 88 AO 3W	M	<u>10/29/10</u>	DW-10212010B
L84N2-1-AA	G-0J260480-012	XX S 88 AO 3W	M	<u>10/29/10</u>	UW-10212010B
L84QX-1-AA	G-0J260480-015	XX S 88 AO 3W	M	<u>10/29/10</u>	DW-10222010B
L84Q2-1-AA	G-0J260480-016	XX S 88 AO 3W	M	<u>10/29/10</u>	UW-10222010B
L84Q6-1-AA	G-0J260480-020	XX S 88 AO 3W	M	<u>10/29/10</u>	DW-10232010B
L84RC-1-AA	G-0J260480-023	XX S 88 AO 3W	M	<u>10/29/10</u>	UW-10232010B

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch 0302353

Date 11/04/2010
Time 16:21:32

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)
Analyst:erica X. larson

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
L84MW-1-AA	0.0126	g	0.0005	10/28-10/29/10	.00	N		0.0126	0.0005	1.00
L84M3-1-AA	0.0163	g	0.0005	10/28-10/29/10	.00	N		0.0163	0.0005	1.00
L84NW-1-AA	0.0202	g	0.0005	10/28-10/29/10	.00	N		0.0202	0.0005	1.00
L84N2-1-AA	0.0231	g	0.0005	10/28-10/29/10	.00	N		0.0231	0.0005	1.00
L84QX-1-AA	0.0250	g	0.0005	10/28-10/29/10	.00	N		0.0250	0.0005	1.00
L84Q2-1-AA	0.0104	g	0.0005	10/28-10/29/10	.00	N		0.0104	0.0005	1.00
L84Q6-1-AA	0.0154	g	0.0005	10/28-10/29/10	.00	N		0.0154	0.0005	1.00
L84RC-1-AA	0.0269	g	0.0005	10/28-10/29/10	.00	N		0.0269	0.0005	1.00

Notes:

TEST	TOTAL #	PRODUCTION TOTALS			MISC #	HOURS
		SAMPLE #	QC #	MATRIX #		
	0	0	0	0	0	.0

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	EC2		71	33	-	71	34	-	72	31	-	71	33	-	71	29	-	73	28	-	73	40	
10/7/10	EC2		70	32	-	71	34	-	72	32	-	71	33	-	71	29	-	73	29	-	73	42	
10/8/10	EC2		70	33	-	70	34	-	72	32	-	70	33	-	71	31	-	72	29	-	73	39	
10/10/10	EV		70	33	-	70	33	-	71	33	-	70	33	-	70	31	-	72	29	-	73	40	
10/11/10	EV		70	31	-	71	36	-	75	33	-	74	33	-	74	33	-	75	30	-	77	41	
10/14/10	EC2		72	33	-	72	37	-	73	34	-	72	35	-	72	34	-	73	30	-	73	43	
10/16/10	EC2		71	32	-	72	35	-	73	32	-	71	33	-	72	33	-	73	28	-	73	27	
10/21/10	EC2		71	33	-	71	36	-	72	32	-	71	33	-	71	33	-	73	29	-	73	32	
10/14/10	EC2		72	32	-	72	38	-	73	33	-	72	34	-	72	36	-	73	30	-	73	42	
10/15/10	EC2		71	33	-	72	38	-	73	33	-	71	34	-	72	36	-	73	30	-	73	42	
11/11/10	EV		72	33	-	72	38	①	73	33	-	72	34	-	72	33	-	73	30	-	75	34	
10/18/10	EC2		69	33	-	69	28	-	70	34	-	69	34	-	70	35	-	72	30	-	72	46	
10/19/10	EC2		69	33	-	69	28	-	70	34	-	69	34	-	70	35	-	72	30	-	72	44	
10/20/10	EC2		70	33	-	71	28	-	72	35	-	70	36	-	71	37	-	72	31	-	72	43	
10/21/10	EC2		70	32	-	70	28	-	71	34	-	70	36	-	70	37	-	72	31	-	72	42	

Abbreviations: T = Temperature (°F) 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

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			
	10/27/10	ECF	70	33	-	71	28	-	72	35	-	71	37	-	71	38	-	73	35	-	72	31	-	73	45
	11/2/10	SCV	70	33	-	71	28	-	72	36	-	72	41	①	71	42	①	73	35	-	72	32	-	73	56
	11/23/10	SCV	65	33	-	69	28	-	70	37	-	69	28	-	70	28	-	72	35	-	72	31	-	72	43
	10/28/10	ECF	68	33	-	68	28	-	70	36	-	68	28	-	69	28	-	70	35	-	70	32	-	70	34
	10/27/10	ECF	67	33	-	68	28	-	69	35	-	68	28	-	68	28	-	70	34	-	70	31	-	70	30
	10/28/10	ECF	65	34	-	66	29	-	66	36	-	65	29	-	66	29	-	68	34	-	66	31	-	68	40
	10/29/10	SCF	65	33	-	66	29	-	67	37	-	65	29	-	66	29	-	68	34	-	66	31	-	68	48

Abbreviations: T = Temperature (°F)

RH = Relative Humidity (%)

Temperature 22± 5 °C or 71.6± 9°F

Limits: RH 33± 5%

Foot Notes: 1 = Desiccant Changed

2 = Desiccator < 28% Humidity

FN = Foot Note

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento Balance Calibration Check Log

Working WT Denomination (g)	WEIGHT #1		Working WT Denomination (g)	WEIGHT #2		DATE	INIT.	WEIGHT ID	P/F
	OBSERVED WEIGHT (g)	Acceptance limits 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	9.9900 / 10.0100	10/5/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/6/10	SV	QA-11	P
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/7/10	SV	QA-11	P
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/8/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/11/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/11/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/12/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/13/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/14/10	SV	QA-11	P
0.2g	0.2000	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/15/10	SV	QA-11	P
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/16/10	SV	QA-11	P
0.2g	0.2002	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/19/10	SV	QA-11	P
0.2g	0.2002	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/19/10	SV	QA-11	P
0.2g	0.2001	0.1998 / 0.2002	10.0g	9.9900	9.9900 / 10.0100	10/20/10	SV	QA-11	P

¹ P= Pass, F= Fail. The observed weight must be with in 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.

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Balance # ID QA-045

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WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits ²		Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits ²					
		Lower (g)	Upper (g)			Lower (g)	Upper (g)				
0.2000	0.1996	0.1995	0.2005	10.000	10.0002	10.0000	10.100	10/21/10	EA	QA-011	P
0.2000	0.2003	0.1995	0.2005	10.000	10.0001	9.9000	10.100	10/27/10	EA	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0005	9.9000	10.0100	10/24/10	N	QA-11	P
0.2000	0.2002	0.1995	0.2005	10.0	10.0001	9.9000	10.0100	10/24/10	N	QA-11	P
0.2000	0.2000	0.1995	0.2005	10.0	10.0004	9.9000	10.0100	10/24/10	EA	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	9.9997	9.9000	10.0100	10/27/10	EA	QA-011	P
0.2000	0.1998	0.1995	0.2005	10.0	10.0000	9.9000	10.0100	10/24/10	EA	QA-011	P
0.2600	0.1999	0.1995	0.2005	10.0	9.9999	9.9000	10.0100	10/24/10	EA	QA-011	P

*1 P= Pass, F= Fail. The observed weight must be with in 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.

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.

RDR150

Analytical Results Batch Review/Release

11/04/10

17:23:01

Requested By: VALMORES

Batch	Lot/Sample ID	Analysis Code	W/O#	Group	Message
0302353					Release Requested
0302353					Successfully Released