TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

August 26, 2010

TestAmerica Project Number: G0H140454
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 August 14, 2010. These samples are associated with your 2027.07 project.

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

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

Sincerely,

DAVID R. ALLTUCKER
Project Manager

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TestAmerica West Sacramento Project Number G0H140454

Case Narrative

TestAmerica West Sacramento Project Number G0H140454

General Comments
Amended sample volumes were provided by the client and used in the sample calculations. Amended sample volumes can be found in the e-mail that is included in the Chain of Custody Documentation section of this report.

AIR, TO-9, Dioxins/Furans
Sample(s): 1, 2, 3, 4
Several analytes in the samples and in the MB 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): 2
The bracketing continuing calibration standard, analyzed August 18, 2010 at 22:15, has 2,3,7,8-TCDF with percent difference values that are between the method recommended criteria of 20% to 25% deviation from the initial calibration curve. Per method guidelines, an average relative response factor is calculated from bracketing continuing calibration standards and is used to quantitate any positive results in the associated samples for the affected analytes. There is no impact on the data as a result of this anomaly.

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on August 18, 2010.

AIR, TO-13, Semivolatile Organics
Sample(s): 5, 6, 7, 8
The recovery for the pre-spiked surrogate 1,2-Dichlorobenzene-d4 was low and outside criteria for samples. However, the recovery in the method blank is within control limits indicating the system is in control. This anomaly is most likely matrix related.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

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 G0H140454

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
L5LAP	1	UW-08112010	8/11/2010 07:02 PM	8/14/2010 08:50 AM
L5LAR	2	DW-08112010	8/11/2010 07:41 PM	8/14/2010 08:50 AM
L5LAV	3	UW-08122010	8/12/2010 07:16 PM	8/14/2010 08:50 AM
L5LA1	4	DW-08122010	8/12/2010 07:38 PM	8/14/2010 08:50 AM
L5LA2	5	UW-08112010	8/11/2010 07:09 PM	8/14/2010 08:50 AM
L5LA6	6	DW-08112010	8/11/2010 07:46 PM	8/14/2010 08:50 AM
L5LA8	7	UW-08122010	8/12/2010 07:20 PM	8/14/2010 08:50 AM
L5LCE	8	DW-08122010	8/12/2010 07:35 PM	8/14/2010 08:50 AM
L5LCF	9	UW-08112010	8/11/2010 06:55 PM	8/14/2010 08:50 AM
L5LCG	10	DW-08112010	8/11/2010 07:52 PM	8/14/2010 08:50 AM
L5LCK	11	UW-08122010	8/12/2010 07:10 PM	8/14/2010 08:50 AM
L5LCN	12	DW-08122010	8/12/2010 07:44 PM	8/14/2010 08:50 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.

G0H140454

COC Number 2027.07.0001

Page: of TAT 8/26/10
Cooler # 1 of 1

northgate
environmental management, inc.

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Required Ship to Lab:

Lab Name: TEST AMERICA
Address: 880 RIVERSIDE PARKWAY
WEST SACRAMENTO, CA 95605
Lab PM: DAVE ALLTUCKER
Phone/Fax: 916.374.4333
Lab PM email: DAVID.ALLTUCKER@—
Applicable Lab Quote #: RFP/3200247

Required Project Information:

Site ID #: 2027
Project # 2027.07
Site Address: 560 W. LAKE MEAD PKWY
City: HENDERSON State: NV
Site PM Name: ~~[redacted]~~ DAVID
Phone/Fax:
Site PM Email: DAVID.BENNKEN@

Required Invoice Information:

Send Invoice to: RANDA MESSIH
Address: 300 FRANK H. OGAWA
City/State: OAKLAND CA Phone #: 510-839-0688
Reimbursement project? Non-reimbursement project? Mark one
Send EDD to: JONI FISHER, TED SPLITTER
CC Hardcopy report to: JONI FISHER, TED SPLITTER
CC Hardcopy report to: DAVID BENNKEN

TAT: Standard ~~21~~ day Rush 5 DAY Mark One
If Rush, Date due
QC level Required: Standard X Special Mark one
NJ Reduced Deliverable Package?
MA MCP Cert? CT RCP Cert? Mark One

Lab Project ID (lab use)

Valid Matrix Codes: MATRIX — DRINKING WATER WP; GROUND WATER WG; WASTE WATER WW; FREE PRODUCT LF; SOIL SO; OIL OIL; WIPE SW; AMBIENT AIR AA; SVE AIR AE; SOIL GAS GS; WATER W; SURFACE WATER WS; WATER QC WQ; SLUDGE SL; RINSEATE WH; OTHER OT; ANIMAL TISSUE TA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analyses	TOTAL VOLUMES Comments/Lab Sample I.D.
	UW-08112010	AA		8/11/10	1855	1		X									805.35 m³
	UW-08112010	AA		8/11/10	1902	2		X								X	~~628.99 m³~~ *
	UW-08112010	AA		8/11/10	1909	2		X								X	~~[illegible] m³~~ *
	DW-08112010	AA		8/11/10	1952	1		X									628.99 m³
	DW-08112010	AA		8/11/10	1941	2		X								X	542.07 m³
	DW-08112010	AA		8/11/10	1946	2		X									532.69 m³
	UW-08122010	AA		8/12/10	1910	1		X									703.43 m³
	UW-08122010	AA		8/12/10	1916	2		X								X	466.46 m³
	UW-08122010	AA		8/12/10	1920	2		X									481.35 m³
	DW-08122010	AA		8/12/10	1944	1		X									799.33 m³
	DW-08122010	AA		8/12/10	1938	2		X								X	506.67 m³
	DW-08122010	AA		8/12/10	1936	2		X									486.69 m³

Additional Comments/Special Instructions:

* UW-08118010 – TO9A Vol = 693.04 m³
# UW-08118010 – TO13A Vol = 677.26 m³

RELINQUISHED BY AFFILIATION	DATE	TIME	ACCEPTED BY AFFILIATION	DATE	TIME
	8/13/10	13:45		8/13/10	15:15
	8/13/10	16:30	Fax accepted 8/16		
				8-14-10	11:30

UPS COURIER FEDEX
US MAIL

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed
Time:

Sample Receipt Conditions

	Temp in 0C	Samples on Ice?	Sample intact?	Trip Blank?
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

Weidenfeld, Robert

From: David Behnken [david.behnken@ngem.com]
Sent: Thursday, August 19, 2010 5:32 AM
To: Weidenfeld, Robert
Subject: Changes to COC Volumes
Importance: High

Hello Robert,

I have unfortunately found an error in the volume calculations for the previous set of samples collected 8/11/10 and 8/12/10

The corrected volumes for items 1-12:

COC Item #	Volumes (m3)
1	805.35
2	693.04
3	583.07
4	628.99
5	521.65
6	493.66
7	666.08
8	427.85
9	437.07
10	657.17
11	423.03
12	410.25

updated 8/19 RW

I apologize for these errors. It will not happen again.
Please contact me if you have any questions or concerns.

Has the final data package already been delivered to Northgate?

Best Regards,
David

David T. Behnken
Project Engineer

Northgate Environmental Management, Inc.
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
general (510) 839-0688; fax (510) 839-4350
cell: (510) 506-0513
e-mail: david.behnken@ngem.com
http://www.ngem.com

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Northgate PM RW LOG # 103579

LOT# (QUANTIMS ID) G0H140454 QUOTE# 84087 LOCATION W140 AC

Checked (✓)

DATE RECEIVED 8-14-10 TIME RECEIVED 850 ☑

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) _____

SHIPPPING CONTAINER(S) ☒ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) NA ☑

TEMPERATURE BLANK Observed: 2 Corrected: 3

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: NA Average _____ Corrected Average _____

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☒ ☐ OTHER _____ ☑

AK 8-14-10
Initials Date

---

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☒ N/A ☑

VOA-ENCORES ☒ N/A ☑

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

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

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☒ N/A

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

AK 8-14-10
Initials Date

Notes _____

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

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0H140454

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

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

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

AIR, TO-9, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 001	**Work Order #....:**	L5LAP1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	693.04
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	ND		100		0
1,2,3,4,6,7,8-HpCDD	**9.0**	**J**	**100**	**0.01**	**0.00013**
Total HpCDD	**16**		**100**		
OCDD	**33**	**J Q B**	**200**	**0.0003**	**0.000014**
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	**10**	**J Q**	**100**	**0.01**	**0.00014**
1,2,3,4,7,8,9-HpCDF	ND		100	0.01	0
Total HpCDF	**15**		**100**		
OCDF	**14**	**J Q**	**200**	**0.0003**	**0.0000061**
Total TEQ Concentration					**0.00029**

\\qsacsql1\QDSApps\TEQ\WHO_205_TEQ_ND_0)_Air.rpt 8/31/2010

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 001	**Work Order #....:**	L5LAP1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	693.04
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	50 - 120
13C-1,2,3,7,8-PeCDD	67	50 - 120
13C-1,2,3,6,7,8-HxCDD	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	71	50 - 120
13C-1,2,3,4,7,8-HxCDF	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	77	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

\\qsacsql1\QDSApps\TEQ\WHO_205_TEQ_ND_0)_Air.rpt 8/31/2010

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 001	**Work Order #....:**	L5LAP1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	693.04
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.029	0.0036	pg/m3
Total TCDD	ND		0.029	0.0036	pg/m3
1,2,3,7,8-PeCDD	ND		0.14	0.0074	pg/m3
Total PeCDD	ND		0.14	0.0095	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.14	0.0055	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.14	0.0052	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.14	0.0048	pg/m3
Total HxCDD	ND		0.14	0.0055	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.013**	**J**	**0.14**	**0.0055**	**pg/m3**
Total HpCDD	**0.023**		**0.14**	**0.0055**	**pg/m3**
OCDD	**0.047**	**J Q B**	**0.29**	**0.0056**	**pg/m3**
2,3,7,8-TCDF	ND		0.029	0.0038	pg/m3
Total TCDF	ND		0.029	0.0049	pg/m3
1,2,3,7,8-PeCDF	ND		0.14	0.0048	pg/m3
2,3,4,7,8-PeCDF	ND		0.14	0.0052	pg/m3
Total PeCDF	ND		0.14	0.0052	pg/m3
1,2,3,4,7,8-HxCDF	ND		0.14	0.0062	pg/m3
1,2,3,6,7,8-HxCDF	ND		0.14	0.0059	pg/m3
2,3,4,6,7,8-HxCDF	ND		0.14	0.0058	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.14	0.0061	pg/m3
Total HxCDF	ND		0.14	0.013	pg/m3
1,2,3,4,6,7,8-HpCDF	**0.014**	**J Q**	**0.14**	**0.0039**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	ND		0.14	0.0045	pg/m3
Total HpCDF	**0.022**		**0.14**	**0.0042**	**pg/m3**
OCDF	**0.021**	**J Q**	**0.29**	**0.0091**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	50 - 120
13C-1,2,3,7,8-PeCDD	67	50 - 120
13C-1,2,3,6,7,8-HxCDD	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	71	50 - 120
13C-1,2,3,4,7,8-HxCDF	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	77	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 001	**Work Order #....:**	L5LAP1AA	**Matrix.....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	693.04
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

QUALIFIERS

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

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 002	**Work Order #....:**	L5LAR1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	521.65
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

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	**8.0**	**J**	**100**	**0.01**	**0.00015**
Total HpCDD	**14**		**100**		
OCDD	**20**	**J B**	**200**	**0.0003**	**0.000012**
2,3,7,8-TCDF	**9.1**	**CON**	**20**	**0.1**	**0.0017**
Total TCDF	**110**		**20**		
1,2,3,7,8-PeCDF	**11**	**J Q**	**100**	**0.03**	**0.00063**
2,3,4,7,8-PeCDF	**5.2**	**J Q**	**100**	**0.3**	**0.0030**
Total PeCDF	**69**		**100**		
1,2,3,4,7,8-HxCDF	**26**	**J**	**100**	**0.1**	**0.0050**
1,2,3,6,7,8-HxCDF	**21**	**J Q**	**100**	**0.1**	**0.0040**
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	**4.9**	**J**	**100**	**0.1**	**0.00094**
Total HxCDF	**130**		**100**		
1,2,3,4,6,7,8-HpCDF	**88**	**J**	**100**	**0.01**	**0.0017**
1,2,3,4,7,8,9-HpCDF	**27**	**J Q**	**100**	**0.01**	**0.00052**
Total HpCDF	**160**		**100**		
OCDF	**220**		**200**	**0.0003**	**0.00013**
Total TEQ Concentration					**0.018**

Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 002	**Work Order #....:**	L5LAR1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	521.65
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	65	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	58	40 - 120
13C-2,3,7,8-TCDF	74	50 - 120
13C-1,2,3,7,8-PeCDF	76	50 - 120
13C-1,2,3,4,7,8-HxCDF	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

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Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 002	**Work Order #....:**	L5LAR1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	521.65
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.038	0.0042	pg/m3
Total TCDD	ND		0.038	0.0042	pg/m3
1,2,3,7,8-PeCDD	ND		0.19	0.012	pg/m3
Total PeCDD	ND		0.19	0.023	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.19	0.0090	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.19	0.0084	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.19	0.0075	pg/m3
Total HxCDD	ND		0.19	0.0090	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.015**	**J**	**0.19**	**0.0082**	**pg/m3**
Total HpCDD	**0.027**		**0.19**	**0.0082**	**pg/m3**
OCDD	**0.039**	**J B**	**0.38**	**0.011**	**pg/m3**
2,3,7,8-TCDF	**0.017**	**CON**	**0.038**	**0.011**	**pg/m3**
Total TCDF	**0.21**		**0.038**	**0.0042**	**pg/m3**
1,2,3,7,8-PeCDF	**0.021**	**J Q**	**0.19**	**0.0077**	**pg/m3**
2,3,4,7,8-PeCDF	**0.0099**	**J Q**	**0.19**	**0.0084**	**pg/m3**
Total PeCDF	**0.13**		**0.19**	**0.0081**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.049**	**J**	**0.19**	**0.0092**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.040**	**J Q**	**0.19**	**0.0084**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.19	0.0086	pg/m3
1,2,3,7,8,9-HxCDF	**0.0093**	**J**	**0.19**	**0.0088**	**pg/m3**
Total HxCDF	**0.26**		**0.19**	**0.0088**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.17**	**J**	**0.19**	**0.0052**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.052**	**J Q**	**0.19**	**0.0059**	**pg/m3**
Total HpCDF	**0.30**		**0.19**	**0.0056**	**pg/m3**
OCDF	**0.43**		**0.38**	**0.013**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	65	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	58	40 - 120
13C-2,3,7,8-TCDF	74	50 - 120
13C-1,2,3,7,8-PeCDF	76	50 - 120
13C-1,2,3,4,7,8-HxCDF	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 002	**Work Order #....:**	L5LAR1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	521.65
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 003	**Work Order #....:**	L5LAV1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	427.85
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

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	**4.4**	**J Q**	**100**	**0.01**	**0.00010**
Total HpCDD	**13**		**100**		
OCDD	**28**	**J Q B**	**200**	**0.0003**	**0.000020**
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	**12**	**J Q**	**100**	**0.01**	**0.00028**
1,2,3,4,7,8,9-HpCDF	ND		100	0.01	0
Total HpCDF	**17**		**100**		
OCDF	**19**	**J Q**	**200**	**0.0003**	**0.000013**
Total TEQ Concentration					**0.00041**

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Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 003	**Work Order #....:**	L5LAV1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	427.85
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	50 - 120
13C-1,2,3,7,8-PeCDD	69	50 - 120
13C-1,2,3,6,7,8-HxCDD	104	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	88	40 - 120
13C-OCDD	67	40 - 120
13C-2,3,7,8-TCDF	82	50 - 120
13C-1,2,3,7,8-PeCDF	77	50 - 120
13C-1,2,3,4,7,8-HxCDF	111	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	99	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 003	**Work Order #....:**	L5LAV1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	427.85
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.047	0.0058	pg/m3
Total TCDD	ND		0.047	0.0058	pg/m3
1,2,3,7,8-PeCDD	ND		0.23	0.012	pg/m3
Total PeCDD	ND		0.23	0.030	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.23	0.0098	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.23	0.0091	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.23	0.0082	pg/m3
Total HxCDD	ND		0.23	0.0098	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.010**	**J Q**	**0.23**	**0.0058**	**pg/m3**
Total HpCDD	**0.030**		**0.23**	**0.0058**	**pg/m3**
OCDD	**0.067**	**J Q B**	**0.47**	**0.0086**	**pg/m3**
2,3,7,8-TCDF	ND		0.047	0.0058	pg/m3
Total TCDF	ND		0.047	0.0058	pg/m3
1,2,3,7,8-PeCDF	ND		0.23	0.0061	pg/m3
2,3,4,7,8-PeCDF	ND		0.23	0.0065	pg/m3
Total PeCDF	ND		0.23	0.010	pg/m3
1,2,3,4,7,8-HxCDF	ND		0.23	0.010	pg/m3
1,2,3,6,7,8-HxCDF	ND		0.23	0.0096	pg/m3
2,3,4,6,7,8-HxCDF	ND		0.23	0.0098	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.23	0.010	pg/m3
Total HxCDF	ND		0.23	0.010	pg/m3
1,2,3,4,6,7,8-HpCDF	**0.027**	**J Q**	**0.23**	**0.0063**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	ND		0.23	0.0072	pg/m3
Total HpCDF	**0.039**		**0.23**	**0.0068**	**pg/m3**
OCDF	**0.046**	**J Q**	**0.47**	**0.010**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	50 - 120
13C-1,2,3,7,8-PeCDD	69	50 - 120
13C-1,2,3,6,7,8-HxCDD	104	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	88	40 - 120
13C-OCDD	67	40 - 120
13C-2,3,7,8-TCDF	82	50 - 120
13C-1,2,3,7,8-PeCDF	77	50 - 120
13C-1,2,3,4,7,8-HxCDF	111	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	99	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 003	**Work Order #....:**	L5LAV1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	427.85
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

QUALIFIERS

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

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 004	**Work Order #....:**	L5LA11AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	423.03
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

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	**5.8**	**J Q**	**100**	**0.01**	**0.00014**
Total HpCDD	**13**		**100**		
OCDD	**15**	**J Q B**	**200**	**0.0003**	**0.000011**
2,3,7,8-TCDF	**12**	**Q J**	**20**	**0.1**	**0.0028**
Total TCDF	**88**		**20**		
1,2,3,7,8-PeCDF	**8.1**	**J Q**	**100**	**0.03**	**0.00057**
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**32**		**100**		
1,2,3,4,7,8-HxCDF	**18**	**J Q**	**100**	**0.1**	**0.0043**
1,2,3,6,7,8-HxCDF	**6.6**	**J Q**	**100**	**0.1**	**0.0016**
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	**38**		**100**		
1,2,3,4,6,7,8-HpCDF	**57**	**J**	**100**	**0.01**	**0.0013**
1,2,3,4,7,8,9-HpCDF	**16**	**J**	**100**	**0.01**	**0.00038**
Total HpCDF	**91**		**100**		
OCDF	**140**	**J**	**200**	**0.0003**	**0.000099**
Total TEQ Concentration					**0.011**

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Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0H140454 - 004	**Work Order #....:**	L5LA11AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Instrument ID....:**	1D5
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	423.03
Prep Batch # ....:	0226076	**Dilution Factor....:**	2	**Units.....:**	pg
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Sonia Ouni		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	81	50 - 120
13C-1,2,3,7,8-PeCDD	61	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	82	40 - 120
13C-OCDD	57	40 - 120
13C-2,3,7,8-TCDF	79	50 - 120
13C-1,2,3,7,8-PeCDF	74	50 - 120
13C-1,2,3,4,7,8-HxCDF	98	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	76	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 004	**Work Order #....:**	L5LA11AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	423.03
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.047	0.0064	pg/m3
Total TCDD	ND		0.047	0.014	pg/m3
1,2,3,7,8-PeCDD	ND		0.24	0.020	pg/m3
Total PeCDD	ND		0.24	0.043	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.24	0.0095	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.24	0.0087	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.24	0.0078	pg/m3
Total HxCDD	ND		0.24	0.0095	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.014**	**J Q**	**0.24**	**0.0090**	**pg/m3**
Total HpCDD	**0.030**		**0.24**	**0.0090**	**pg/m3**
OCDD	**0.035**	**J Q B**	**0.47**	**0.0064**	**pg/m3**
2,3,7,8-TCDF	**0.029**	**Q J**	**0.047**	**0.0047**	**pg/m3**
Total TCDF	**0.21**		**0.047**	**0.0047**	**pg/m3**
1,2,3,7,8-PeCDF	**0.019**	**J Q**	**0.24**	**0.0092**	**pg/m3**
2,3,4,7,8-PeCDF	ND		0.24	0.010	pg/m3
Total PeCDF	**0.076**		**0.24**	**0.0097**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.042**	**J Q**	**0.24**	**0.016**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.016**	**J Q**	**0.24**	**0.015**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.24	0.015	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.24	0.016	pg/m3
Total HxCDF	**0.091**		**0.24**	**0.015**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.14**	**J**	**0.24**	**0.012**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.039**	**J**	**0.24**	**0.013**	**pg/m3**
Total HpCDF	**0.22**		**0.24**	**0.013**	**pg/m3**
OCDF	**0.32**	**J**	**0.47**	**0.022**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	81	50 - 120
13C-1,2,3,7,8-PeCDD	61	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	82	40 - 120
13C-OCDD	57	40 - 120
13C-2,3,7,8-TCDF	79	50 - 120
13C-1,2,3,7,8-PeCDF	74	50 - 120
13C-1,2,3,4,7,8-HxCDF	98	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	76	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 004	**Work Order #....:**	L5LA11AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	423.03
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

QUALIFIERS

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

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

QC DATA ASSOCIATION SUMMARY

G0H140454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-9		0226076	
002	AIR	EPA-2 TO-9		0226076	
003	AIR	EPA-2 TO-9		0226076	
004	AIR	EPA-2 TO-9		0226076	
005	AIR	EPA-2 TO-13		0226077	
006	AIR	EPA-2 TO-13		0226077	
007	AIR	EPA-2 TO-13		0226077	
008	AIR	EPA-2 TO-13		0226077	
009	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
010	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
011	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
012	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0H140000 - 076B	**Work Order #....:**	L5LC41AA	**Matrix....:**	AQ
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/17/10	**Volume....:**	0
Prep Batch # ....:	0226076	**Instrument ID....:**	1D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		20	2.2	pg
Total TCDD	ND		20	5.2	pg
1,2,3,7,8-PeCDD	ND		100	4.0	pg
Total PeCDD	ND		100	17	pg
1,2,3,4,7,8-HxCDD	ND		100	2.8	pg
1,2,3,6,7,8-HxCDD	ND		100	2.6	pg
1,2,3,7,8,9-HxCDD	ND		100	2.4	pg
Total HxCDD	ND		100	2.8	pg
1,2,3,4,6,7,8-HpCDD	ND		100	3.9	pg
Total HpCDD	ND		100	4.1	pg
OCDD	**8.6**	**J Q**	**200**	**3.9**	**pg**
2,3,7,8-TCDF	ND		20	0.84	pg
Total TCDF	ND		20	2.4	pg
1,2,3,7,8-PeCDF	ND		100	2.4	pg
2,3,4,7,8-PeCDF	ND		100	2.7	pg
Total PeCDF	ND		100	4.7	pg
1,2,3,4,7,8-HxCDF	ND		100	3.0	pg
1,2,3,6,7,8-HxCDF	ND		100	2.8	pg
2,3,4,6,7,8-HxCDF	ND		100	2.8	pg
1,2,3,7,8,9-HxCDF	ND		100	2.9	pg
Total HxCDF	ND		100	3.0	pg
1,2,3,4,6,7,8-HpCDF	ND		100	2.8	pg
1,2,3,4,7,8,9-HpCDF	ND		100	4.5	pg
Total HpCDF	ND		100	4.5	pg
OCDF	ND		200	4.4	pg

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	50 - 120
13C-1,2,3,7,8-PeCDD	82	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 120
13C-OCDD	70	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0H140000 - 076B	**Work Order #....:**	L5LC41AA	**Matrix....:**	AQ
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	2
Prep Date....:	08/14/10	**Analysis Date....:**	08/17/10	**Volume....:**	0
Prep Batch # ....:	0226076	**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).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0H140454	**Work Order # ...:**	L5LC41AC-LCS	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0H140000 - 076		L5LC41AD-LCSD		
Prep Date .....:	08/14/10	**Analysis Date ..:**	08/17/10		
Prep Batch # ...:	0226076				
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**	**372**	**pg**	**93**	**(70 - 130)**		
	400	**384**	**pg**	**96**	**(70 - 130)**	**3.1**	**(0 - 30)**
1,2,3,7,8-PeCDD	**2000**	**2160**	**pg**	**108**	**(70 - 130)**		
	2000	**2170**	**pg**	**109**	**(70 - 130)**	**0.73**	**(0 - 30)**
1,2,3,4,7,8-HxCDD	**2000**	**1890**	**pg**	**94**	**(70 - 130)**		
	2000	**2040**	**pg**	**102**	**(70 - 130)**	**7.7**	**(0 - 30)**
1,2,3,6,7,8-HxCDD	**2000**	**1880**	**pg**	**94**	**(70 - 130)**		
	2000	**2020**	**pg**	**101**	**(70 - 130)**	**7.0**	**(0 - 30)**
1,2,3,7,8,9-HxCDD	**2000**	**1790**	**pg**	**89**	**(70 - 130)**		
	2000	**1930**	**pg**	**96**	**(70 - 130)**	**7.4**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDD	**2000**	**1970**	**pg**	**98**	**(70 - 130)**		
	2000	**2030**	**pg**	**102**	**(70 - 130)**	**3.4**	**(0 - 30)**
OCDD	**4000**	**4420**	**pg**	**111**	**(70 - 130)**		
	4000	**4730**	**pg**	**118**	**(70 - 130)**	**6.6**	**(0 - 30)**
2,3,7,8-TCDF	**400**	**389**	**pg**	**97**	**(70 - 130)**		
	400	**372**	**pg**	**93**	**(70 - 130)**	**4.4**	**(0 - 30)**
1,2,3,7,8-PeCDF	**2000**	**1830**	**pg**	**92**	**(70 - 130)**		
	2000	**1950**	**pg**	**98**	**(70 - 130)**	**6.3**	**(0 - 30)**
2,3,4,7,8-PeCDF	**2000**	**1970**	**pg**	**98**	**(70 - 130)**		
	2000	**2010**	**pg**	**101**	**(70 - 130)**	**2.3**	**(0 - 30)**
1,2,3,4,7,8-HxCDF	**2000**	**2100**	**pg**	**105**	**(70 - 130)**		
	2000	**2320**	**pg**	**116**	**(70 - 130)**	**10**	**(0 - 30)**
1,2,3,6,7,8-HxCDF	**2000**	**2140**	**pg**	**107**	**(70 - 130)**		
	2000	**2380**	**pg**	**119**	**(70 - 130)**	**11**	**(0 - 30)**
2,3,4,6,7,8-HxCDF	**2000**	**2040**	**pg**	**102**	**(70 - 130)**		
	2000	**2230**	**pg**	**111**	**(70 - 130)**	**8.7**	**(0 - 30)**
1,2,3,7,8,9-HxCDF	**2000**	**1870**	**pg**	**93**	**(70 - 130)**		
	2000	**1980**	**pg**	**99**	**(70 - 130)**	**5.8**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDF	**2000**	**2160**	**pg**	**108**	**(70 - 130)**		
	2000	**2210**	**pg**	**110**	**(70 - 130)**	**2.0**	**(0 - 30)**
1,2,3,4,7,8,9-HpCDF	**2000**	**2040**	**pg**	**102**	**(70 - 130)**		
	2000	**2090**	**pg**	**105**	**(70 - 130)**	**2.6**	**(0 - 30)**
OCDF	**4000**	**4670**	**pg**	**117**	**(70 - 130)**		
	4000	**5080**	**pg**	**127**	**(70 - 130)**	**8.2**	**(0 - 30)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	(50 - 120)
	81	(50 - 120)
13C-1,2,3,7,8-PeCDD	77	(50 - 120)
	69	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	98	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0H140454 **Work Order # ...:** L5LC41AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : G0H140000 - 076 L5LC41AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	85	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	88	(40 - 120)
	72	(40 - 120)
13C-OCDD	68	(40 - 120)
	56	(40 - 120)
13C-2,3,7,8-TCDF	85	(50 - 120)
	84	(50 - 120)
13C-1,2,3,7,8-PeCDF	86	(50 - 120)
	77	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	103	(50 - 120)
	87	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	84	(40 - 120)
	74	(40 - 120)

Notes:

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

Bold print denotes control parameters

AIR, TO-13, Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 005	**Work Order #....:**	L5LA21AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	583.07
Prep Batch # ....:	0226077	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.017	0.0022	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	31	*	60 - 120
2-Fluorobiphenyl	90		58 - 105
2-Fluorophenol	76		41 - 105
Nitrobenzene-d5	79		46 - 118
Phenol-d5	90		43 - 122
Terphenyl-d14	91		69 - 110
2,4,6-Tribromophenol	112		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 006	**Work Order #....:**	L5LA61AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	493.66
Prep Batch # ....:	0226077	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.020	0.0026	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	30	*	60 - 120
2-Fluorobiphenyl	82		58 - 105
2-Fluorophenol	70		41 - 105
Nitrobenzene-d5	78		46 - 118
Phenol-d5	81		43 - 122
Terphenyl-d14	93		69 - 110
2,4,6-Tribromophenol	109		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 007	**Work Order #....:**	L5LA81AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	437.07
Prep Batch # ....:	0226077	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.023	0.0030	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	39	*	60 - 120
2-Fluorobiphenyl	87		58 - 105
2-Fluorophenol	76		41 - 105
Nitrobenzene-d5	82		46 - 118
Phenol-d5	89		43 - 122
Terphenyl-d14	94		69 - 110
2,4,6-Tribromophenol	108		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 008	**Work Order #....:**	L5LCE1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	410.25
Prep Batch # ....:	0226077	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.024	0.0032	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	42	*	60 - 120
2-Fluorobiphenyl	88		58 - 105
2-Fluorophenol	72		41 - 105
Nitrobenzene-d5	78		46 - 118
Phenol-d5	86		43 - 122
Terphenyl-d14	97		69 - 110
2,4,6-Tribromophenol	114		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G0H140454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-9		0226076	
002	AIR	EPA-2 TO-9		0226076	
003	AIR	EPA-2 TO-9		0226076	
004	AIR	EPA-2 TO-9		0226076	
005	AIR	EPA-2 TO-13		0226077	
006	AIR	EPA-2 TO-13		0226077	
007	AIR	EPA-2 TO-13		0226077	
008	AIR	EPA-2 TO-13		0226077	
009	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
010	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
011	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
012	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0H140000 - 077B	**Work Order #....:**	L5LC51AA	**Matrix....:**	AQ
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/14/10	**Analysis Date....:**	08/18/10	**Volume....:**	0
Prep Batch # ....:	0226077	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	10.0	1.3	ug

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	68	60 - 120
2-Fluorobiphenyl	72	58 - 105
2-Fluorophenol	60	41 - 105
Nitrobenzene-d5	61	46 - 118
Phenol-d5	68	43 - 122
Terphenyl-d14	94	69 - 110
2,4,6-Tribromophenol	104	61 - 118

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0H140454	**Work Order # ...:**	L5LC51AC-LCS L5LC51AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0H140000 - 077				
Prep Date .....:	08/14/10	**Analysis Date ..:**	08/18/10		
Prep Batch # ...:	0226077				
Dilution Factor :	1				
Analyst ID.....:	Kenny Q. Truong	**Instrument ID..:**	5MH	**Method.....:**	EPA-2 TO-13
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Hexachlorobenzene	**100**	**92.0**	**ug**	**92**	**(70 - 110)**		
	100	**91.8**	**ug**	**92**	**(70 - 110)**	**0.22**	**(0 - 30)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	89	(58 - 105)
	93	(58 - 105)
2-Fluorophenol	77	(41 - 105)
	77	(41 - 105)
Nitrobenzene-d5	85	(46 - 118)
	83	(46 - 118)
Phenol-d5	84	(43 - 122)
	89	(43 - 122)
Terphenyl-d14	88	(69 - 110)
	92	(69 - 110)
2,4,6-Tribromophenol	109	(61 - 118)
	114	(61 - 118)

Notes:

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

Bold print denotes control parameters

AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: UW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 009	**Work Order #....:**	L5LCF1AC	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/17/10	**Analysis Date....:**	08/18/10	**Volume....:**	805.35
Prep Batch # ....:	0229240	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.00062**	**B J**	**0.0030**	**0.00061**	**ug/m3**
Manganese	**0.640**	**J**	**0.00149**	**0.000211**	**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-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 010	**Work Order #....:**	L5LCG1AC	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/17/10	**Analysis Date....:**	08/18/10	**Volume....:**	628.99
Prep Batch # ....:	0229240	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	ND		0.0038	0.00078	ug/m3
Manganese	**0.133**	**J**	**0.00191**	**0.000270**	**ug/m3**

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 011	**Work Order #....:**	L5LCK1AC	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/17/10	**Analysis Date....:**	08/18/10	**Volume....:**	666.08
Prep Batch # ....:	0229240	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	ND		0.0036	0.00074	ug/m3
Manganese	**0.567**	**J**	**0.00180**	**0.000255**	**ug/m3**

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 012	**Work Order #....:**	L5LCN1AC	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/17/10	**Analysis Date....:**	08/18/10	**Volume....:**	657.17
Prep Batch # ....:	0229240	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	ND		0.0037	0.00075	ug/m3
Manganese	**0.119**	**J**	**0.00183**	**0.000259**	**ug/m3**

QUALIFIERS

J Estimated Result.

QC DATA ASSOCIATION SUMMARY

G0H140454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
009	AIR	SW846 6020		0229240	
010	AIR	SW846 6020		0229240	
011	AIR	SW846 6020		0229240	
012	AIR	SW846 6020		0229240	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0H170000 - 240B	**Work Order #....:**	L5NLJ1AA	**Matrix....:**	AQ
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/17/10	**Analysis Date....:**	08/18/10	**Volume....:**	0
Prep Batch # ....:	0229240	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.53**	**B**	**2.4**	**0.49**	**ug**
Manganese	**0.34**	**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 # ...:	G0H140454	**Work Order # ...:**	L5NLJ1AD-LCS L5NLJ1AE-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0H170000 - 240				
Prep Date .....:	08/17/10	**Analysis Date ..:**	08/18/10		
Prep Batch # ...:	0229240				
Dilution Factor :	1				
Analyst ID.....:	Brian Jones	**Instrument ID..:**	M01	**Method.....:**	SW846 6020
Initial Wgt/Vol:	0.08333 L				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Arsenic	**240**	**225**	**ug**	**94**	**(86 - 110)**		
	240	**226**	**ug**	**94**	**(86 - 110)**	**0.19**	**(0 - 15)**
Manganese	**240**	**223**	**ug**	**93**	**(88 - 110)**		
	240	**219**	**ug**	**91**	**(88 - 110)**	**2.0**	**(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: UW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 009	**Work Order #....:**	L5LCF1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/16/10	**Analysis Date....:**	08/17/10	**Volume....:**	805.35
Prep Batch # ....:	0229350	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000705**	**0.000000621**	**--**	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-08112010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 010	**Work Order #....:**	L5LCG1AA	**Matrix....:**	AA
Date Sampled....:	08/11/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/16/10	**Analysis Date....:**	08/17/10	**Volume....:**	628.99
Prep Batch # ....:	0229350	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000180**	**0.000000795**	--	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 011	**Work Order #....:**	L5LCK1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/16/10	**Analysis Date....:**	08/17/10	**Volume....:**	666.08
Prep Batch # ....:	0229350	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000147**	**0.000000751**	**--**	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-08122010

Trace Level Compounds

Lot - Sample #....:	G0H140454 - 012	**Work Order #....:**	L5LCN1AA	**Matrix....:**	AA
Date Sampled....:	08/12/10	**Date Received....:**	08/14/10	**Dilution Factor....:**	1
Prep Date....:	08/16/10	**Analysis Date....:**	08/17/10	**Volume....:**	657.17
Prep Batch # ....:	0229350	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000768**	**0.000000761**	--	**g/m3**

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0H140454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-9		0226076	
002	AIR	EPA-2 TO-9		0226076	
003	AIR	EPA-2 TO-9		0226076	
004	AIR	EPA-2 TO-9		0226076	
005	AIR	EPA-2 TO-13		0226077	
006	AIR	EPA-2 TO-13		0226077	
007	AIR	EPA-2 TO-13		0226077	
008	AIR	EPA-2 TO-13		0226077	
009	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
010	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
011	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	
012	AIR	CFR50B APDX B		0229350	
	AIR	SW846 6020		0229240	

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: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB
Run #8 Filename: 16AU10B1D5 S: 42 I: 1 Results: 16AU10B1D5TO9os
Acquired: 17-AUG-10 22:14:23 Processed: 18-AUG-10 10:46:38
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

08-20-10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	102210800	0.78	y	17:37	-	54.305	-	-	n
13C-2,3,7,8-TCDF	149923100	0.79	y	17:06	1.56	3756.966	0.996	93.9	n
2,3,7,8-TCDF	*	*	n	NotFnd	0.87	*	0.837	-	n
Total TCDF	368248	0.39	n	14:20	0.87	~~11.229~~ 2.40 DL	~~0.837~~	-	n
13C-2,3,7,8-TCDD	86375300	0.78	y	17:49	0.94	3613.997	4.965	90.3	n
2,3,7,8-TCDD	34423	1.38	n	17:49	0.96	~~1.665~~	2.246	-	n
Total TCDD	340228	0.87	y	15:35	0.96	~~16.459~~	~~2.246~~ 5.15 DL	-	n
37Cl-2,3,7,8-TCDD	84848400	1.00	y	17:50	1.22	3230.745	1.438	101.0	n
13C-1,2,3,7,8-PeCDF	97858500	1.63	y	22:06	1.06	3606.278	2.196	90.2	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*	2.444	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	2.693	-	n
Total F2 PeCDF	118115	0.65	n	23:50	1.03	~~4.687~~ 4.69DL	~~2.563~~	-	n
Total F1 PeCDF	311059	0.34	n	14:40	1.03	~~12.343~~	~~1.935~~	-	n
13C-1,2,3,7,8-PeCDD	54385700	1.70	y	24:07	0.65	3293.646	1.223	82.3	n
1,2,3,7,8-PeCDD	52450	1.23	n	24:13	0.92	~~4.171~~	4.017	-	n
Total PeCDD	343415	2.06	n	21:47	0.92	~~27.312~~ 16.55 DL	4.017	-	n
13C-1,2,3,7,8,9-HxCDD	62700400	1.33	y	32:05	-	44.112	-	-	n
13C-1,2,3,4,7,8-HxCDF	61274600	0.51	y	30:16	0.99	3964.276	3.845	99.1	n
1,2,3,4,7,8-HxCDF	21239	1.33	y	30:17	1.15	~~1.202~~	3.001	-	n
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	1.24	*	2.785	-	n
2,3,4,6,7,8-HxCDF	11174	3.46	n	31:21	1.22	~~0.599~~	2.842	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	2.921	-	n
Total HxCDF	157716	0.28	n	27:38	1.20	~~8.619~~	~~2.885~~ 3.001	-	n
13C-1,2,3,6,7,8-HxCDD	49221500	1.28	y	31:44	0.77	4089.181	2.465	102.2	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	2.762	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	2.568	-	n
1,2,3,7,8,9-HxCDD	37066	1.14	y	32:05	1.24	2.425 DL	~~2.287~~	-	n
Total HxCDD	243440	0.34	n	29:08	1.13	~~17.319~~	~~2.524~~ 2.762	-	n
13C-1,2,3,4,6,7,8-HpCDF	53179100	0.40	y	33:55	0.98	3458.578	10.557	86.5	n
1,2,3,4,6,7,8-HpCDF	50365	3.02	n	33:55	1.35	2.807	2.342	-	n
1,2,3,4,7,8,9-HpCDF	71498	1.30	n	35:10	1.19	4.534	2.665	-	n
Total HpCDF	188345	3.02	n	33:55	1.27	~~11.285~~ 7.34	~~2.493~~ 4.534	-	n
13C-1,2,3,4,6,7,8-HpCDD	47006200	1.13	y	34:49	0.81	3721.939	3.974	93.0	n
1,2,3,4,6,7,8-HpCDD	46732	0.70	n	34:49	1.03	3.875 DL	2.855	-	n
Total HpCDD	228109	0.67	n	34:12	1.03	~~18.913~~ 8.00	2.855 4.13	-	n
13C-OCDD	54133300	0.93	y	37:28	0.62	5614.174	5.724	70.2	n
OCDF	*	*	n	NotFnd	1.44	*	4.389	-	n

OCDD	63117	0.71	n	37:28	1.09		8.555	J,Q	3.942	- y

Run text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB
Run #8 Filename: 16AU10B1D5 S: 42 I: 1 Results: 16au10b1d5TO9
Acquired: 17-AUG-10 22:14:23 Processed: 18-AUG-10 10:46:38
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	102210800	0.78	y	17:37	-	54.305	-	-	n
13C-2,3,7,8-TCDF	149923100	0.79	y	17:06	1.56	3756.966	0.996	93.9	n
2,3,7,8-TCDF	*	*	n	NotFnd	0.87	*	0.837	-	n
Total TCDF	368248	0.39	n	14:20	0.87	11.229	0.837	-	n
13C-2,3,7,8-TCDD	86375300	0.78	y	17:49	0.94	3613.997	4.965	90.3	n
2,3,7,8-TCDD	34423	1.38	n	17:49	0.96	1.665	2.246	-	n
Total TCDD	340228	0.87	y	15:35	0.96	16.459	2.246	-	n
37Cl-2,3,7,8-TCDD	84848400	1.00	y	17:50	1.22	3230.745	1.438	101.0	n
13C-1,2,3,7,8-PeCDF	97858500	1.63	y	22:06	1.06	3606.278	2.196	90.2	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*	2.444	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	2.693	-	n
Total F2 PeCDF	118115	0.65	n	23:50	1.03	4.687	2.563	-	n
Total F1 PeCDF	311059	0.34	n	14:40	1.03	12.343	1.935	-	n
13C-1,2,3,7,8-PeCDD	54385700	1.70	y	24:07	0.65	3293.646	1.223	82.3	n
1,2,3,7,8-PeCDD	52450	1.23	n	24:13	0.92	4.171	4.017	-	n
Total PeCDD	343415	2.06	n	21:47	0.92	27.312	4.017	-	n
13C-1,2,3,7,8,9-HxCDD	62700400	1.33	y	32:05	-	44.112	-	-	n
13C-1,2,3,4,7,8-HxCDF	61274600	0.51	y	30:16	0.99	3964.276	3.845	99.1	n
1,2,3,4,7,8-HxCDF	21239	1.33	y	30:17	1.15	1.202	3.001	-	n
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	1.24	*	2.785	-	n
2,3,4,6,7,8-HxCDF	11174	3.46	n	31:21	1.22	0.599	2.842	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	2.921	-	n
Total HxCDF	157716	0.28	n	27:38	1.20	8.619	2.885	-	n
13C-1,2,3,6,7,8-HxCDD	49221500	1.28	y	31:44	0.77	4089.181	2.465	102.2	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	2.762	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	2.568	-	n
1,2,3,7,8,9-HxCDD	37066	1.14	y	32:05	1.24	2.425	2.287	-	n
Total HxCDD	243440	0.34	n	29:08	1.13	17.319	2.524	-	n
13C-1,2,3,4,6,7,8-HpCDF	53179100	0.40	y	33:55	0.98	3458.578	10.557	86.5	n
1,2,3,4,6,7,8-HpCDF	50365	3.02	n	33:55	1.35	2.807	2.342	-	n
1,2,3,4,7,8,9-HpCDF	71498	1.30	n	35:10	1.19	4.534	2.665	-	n
Total HpCDF	188345	3.02	n	33:55	1.27	11.285	2.493	-	n
13C-1,2,3,4,6,7,8-HpCDD	47006200	1.13	y	34:49	0.81	3721.939	3.974	93.0	n
1,2,3,4,6,7,8-HpCDD	46732	0.70	n	34:49	1.03	3.875	2.855	-	n
Total HpCDD	228109	0.67	n	34:12	1.03	18.913	2.855	-	n
13C-OCDD	54133300	0.93	y	37:28	0.62	5614.174	5.724	70.2	n
OCDF	*	*	n	NotFnd	1.44	*	4.389	-	n

OCDD	86177	0.76 y	37:28	1.09	11.680	3.942	- n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:16
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	5.61 of which	* named and	5.61	unnamed
Conc:	11.23 of which	* named and	11.23	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:20	0.39	n	0.81	11610	4.5	y	n
						29957	2.5	n	n
	2	14:43	0.57	n	2.40	34181	6.9	y	n
						60156	6.2	y	n
	3	15:57	0.73	y	0.52	7157	2.2	n	n
						9862	2.4	n	n
	4	16:06	0.71	y	0.80	10803	3.9	y	n
						15305	3.2	y	n
	5	16:31	3.87	n	0.11	8131	3.2	y	n
						2102	0.5	n	n
	6	16:54	0.26	n	0.45	6375	2.5	n	n
						24521	4.8	y	n
	7	17:16	0.63	n	0.51	7264	2.8	n	n
						11598	2.3	n	n
	8	17:49	0.85	y	0.85	12850	4.7	y	n
						15153	2.0	n	n
	9	17:55	1.12	n	0.53	11000	2.5	n	n
						9855	2.4	n	n
	10	18:17	0.21	n	0.35	4939	1.7	n	n
						23096	2.3	n	n
	11	18:39	0.22	n	0.25	3581	1.1	n	n
						16250	3.7	y	n
	12	18:57	1.74	n	0.66	21276	6.5	y	n
						12219	2.4	n	n
	13	19:09	3.50	n	0.97	63234	21.4	y	n
						18061	4.1	y	n
	14	19:15	0.38	n	0.94	13423	3.1	y	n
						35568	6.2	y	n
	15	19:54	1.57	n	0.71	20655	6.2	y	n
						13115	2.5	n	n

	16	20:08	0.40	n	0.37	5260	1.5	n n
						13173	2.1	n n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:10
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	8.23 of which	0.83 named and	7.40 unnamed
Conc:	16.46 of which	1.67 named and	14.79 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	15:35	0.87	y	2.35	22639	3.2	y	n
						26031	4.0	y	n
	2	16:07	0.34	n	0.56	4992	0.8	n	n
						14514	2.1	n	n
	3	16:59	1.42	n	0.76	12585	2.0	n	n
						8850	1.5	n	n
	4	17:07	3.82	n	1.33	59478	8.2	y	n
						15579	2.9	n	n
	5	17:38	0.57	n	2.27	20424	2.4	n	n
						35722	6.4	y	n
2,3,7,8-TCDD	6	17:49	1.38	n	1.67	26926	4.0	y	n
						19448	2.2	n	n
	7	18:10	1.78	n	0.89	18430	2.1	n	n
						10363	1.7	n	n
	8	18:21	1.57	n	0.73	13436	2.1	n	n
						8573	2.0	n	n
	9	18:55	0.76	y	5.15	45979	7.5	y	n
						60405	5.3	y	n
	10	19:01	0.11	n	0.75	6775	1.0	n	n
						60405	5.3	y	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:1
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	2.34 of which	* named and	2.34	unnamed
Conc:	4.69 of which	* named and	4.69	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	23:50	0.65	n	4.69	71795	8.5	y	n
						110545	8.0	y	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:8
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	6.17 of which	* named and	6.17	unnamed
Conc:	12.34 of which	* named and	12.34	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:40	0.34	n	0.42	6490	2.2	n	n
						18842	2.8	n	n
	2	15:13	0.99	n	4.66	71416	19.1	y	n
						72429	9.9	y	n
	3	17:01	0.77	n	0.77	11780	2.4	n	n
						15326	1.6	n	n
	4	17:49	0.94	n	0.87	13383	4.2	y	n
						14309	1.5	n	n
	5	18:22	0.25	n	0.35	5328	2.1	n	n
						21128	2.9	n	n
	6	18:49	0.55	n	3.45	52888	19.2	y	n
						95326	9.2	y	n
	7	18:58	2.39	n	1.48	34885	6.0	y	n
						14601	1.5	n	n
	8	19:33	0.37	n	0.34	5162	1.9	n	n
						14125	2.1	n	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:6
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	13.66 of which	2.09 named and	11.57	unnamed
Conc:	27.31 of which	4.17 named and	23.14	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:47	2.06	n	1.11	11255	1.6	n	n
						5454	1.8	n	n
	2	23:47	3.10	n	16.55	252897	18.7	y	n
						81626	24.8	y	n
1,2,3,7,8-PeCDD	3	24:13	1.23	n	4.17	31882	3.2	y	n
						25879	8.5	y	n
	4	25:07	0.91	n	2.62	19996	2.4	n	n
						21882	6.4	y	n
	5	25:36	4.27	n	1.00	21069	1.7	n	n
						4937	3.0	y	n
	6	26:28	2.38	n	1.86	21871	1.6	n	n
						9187	2.8	n	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	4.31 of which	0.90 named and	3.41 unnamed
Conc:	8.62 of which	1.80 named and	6.82 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:38	0.28	n	1.02	10406	1.6	n	n
						36675	5.9	y	n
1,2,3,4,7,8-HxCDF	2	30:17	1.33	y	1.20	12106	1.6	n	n
						9133	1.8	n	n
	3	30:39	1.55	n	2.37	30019	2.5	n	n
						19407	2.7	n	n
2,3,4,6,7,8-HxCDF	4	31:21	3.46	n	0.60	17271	1.9	n	n
						4989	1.0	n	n
	5	31:41	2.53	n	0.82	17100	1.4	n	n
						6757	1.6	n	n
	6	32:24	0.80	n	2.61	26514	3.4	y	n
						33005	4.5	y	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:12
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	8.66 of which	1.21 named and	7.45 unnamed
Conc:	17.32 of which	2.42 named and	14.89 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	29:08	0.34	n	1.52	11671	3.7	y	n
						34241	3.3	y	n
	2	29:17	0.33	n	0.78	5993	1.5	n	n
						18170	2.5	n	n
	3	29:26	0.29	n	0.50	3806	1.1	n	n
						13209	1.4	n	n
	4	29:29	0.24	n	0.42	3184	0.9	n	n
						13209	1.4	n	n
	5	30:14	0.83	n	1.49	11442	4.1	y	n

						13805	1.4	n	n
	6	30:17	1.61	n	2.23	22228	7.3	y	n
						13805	1.4	n	n
	7	30:30	0.73	n	1.86	14254	2.9	n	n
						19451	2.9	n	n
	8	30:36	0.41	n	1.05	8048	3.0	n	n
						19451	2.9	n	n
1,2,3,7,8,9-HxCDD	9	32:05	1.14	y	2.42	19724	5.5	y	n
						17342	2.8	n	n
	10	32:48	1.20	y	1.41	10613	2.6	n	n
						8862	1.4	n	n
	11	33:08	2.40	n	0.45	6703	1.7	n	n
						2792	0.6	n	n
	12	33:19	1.03	n	3.19	24485	7.3	y	n
						23793	2.6	n	n

Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	5.64 of which	3.67 named and	1.97	unnamed
Conc:	11.28 of which	7.34 named and	3.94	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:55	3.02	n	2.81	74453	9.5	y	n
						24689	4.3	y	n
	2	35:01	1.09	y	2.44	21457	2.8	n	n
						19692	3.0	y	n
1,2,3,4,7,8,9-HpCDF	3	35:10	1.30	n	4.53	45664	4.7	y	n
						35048	4.5	y	n
	4	36:14	1.42	n	1.50	17626	1.6	n	n
						12419	1.6	n	n

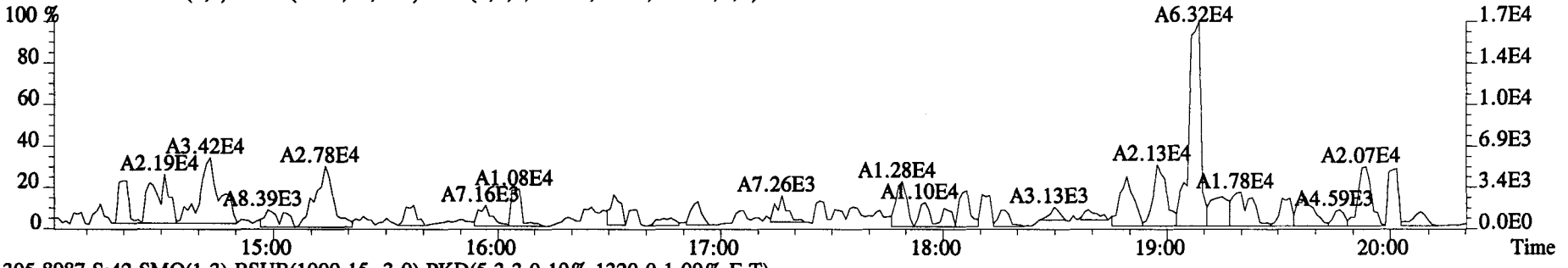
Run Text: L5LC4-1-AAB Sample text: L5LC4-1-AAB :G0H140454-1MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
Run: 8 File: 16AU10B1D5 S:42 Acq:17-AUG-10 22:14:23
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

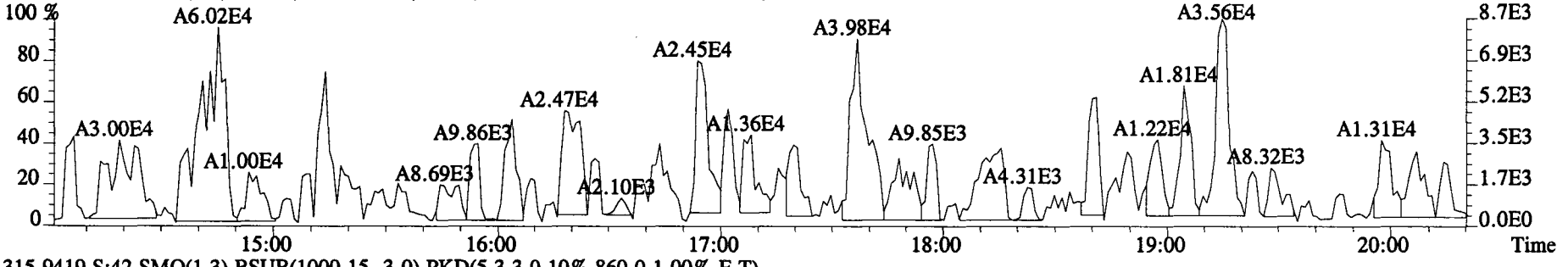
Amount:	9.46 of which	1.94 named and	7.52	unnamed
Conc:	18.91 of which	3.87 named and	15.04	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:12	0.67	n	4.13	25407	3.7	y	n
						37918	8.4	y	n
1,2,3,4,6,7,8-HpCDD	2	34:49	0.70	n	3.87	23824	3.1	y	n
						33875	8.6	y	n
	3	35:01	0.91	y	10.91	62706	10.2	y	n
						68834	13.4	y	n

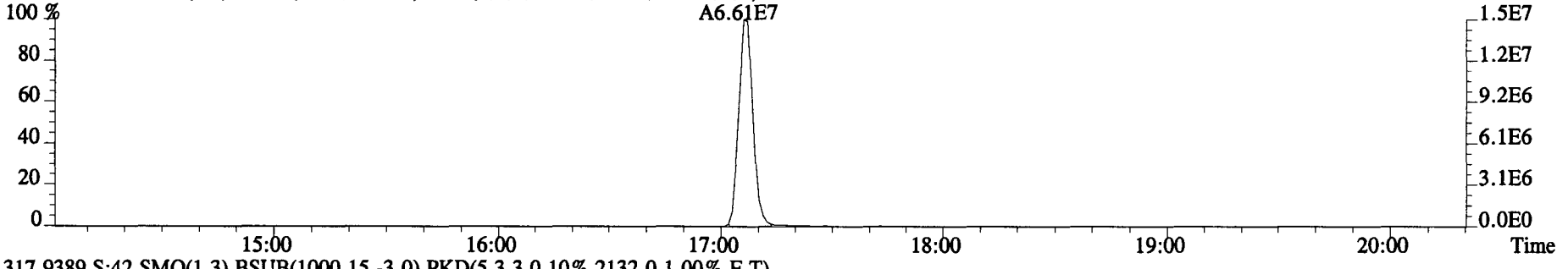
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
303.9016 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)



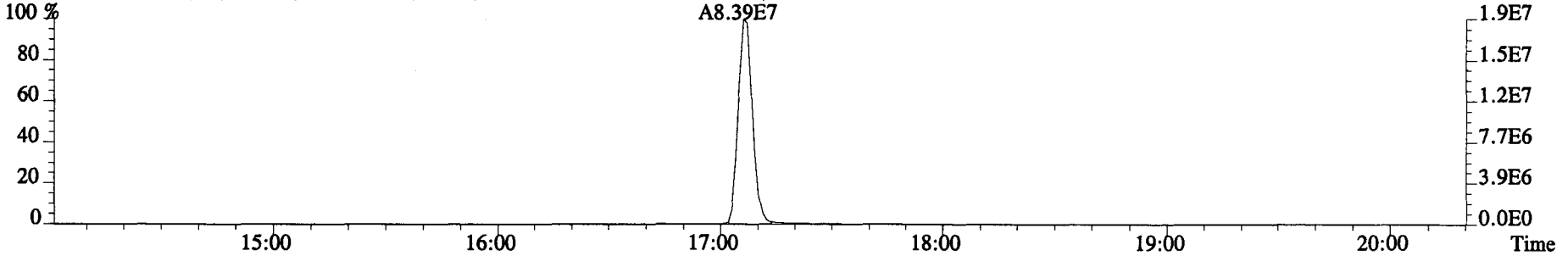
305.8987 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)

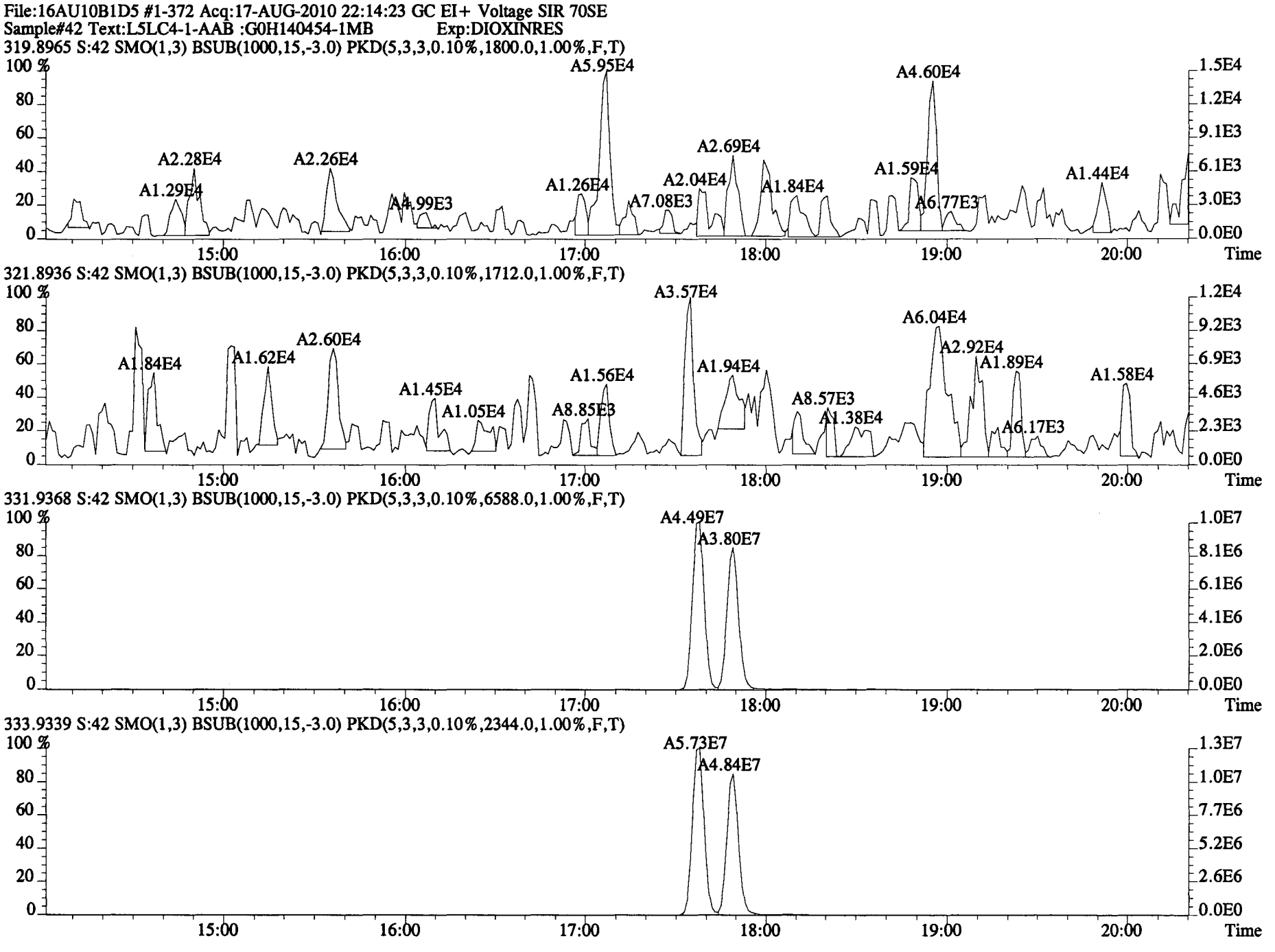


315.9419 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860.0,1.00%,F,T)

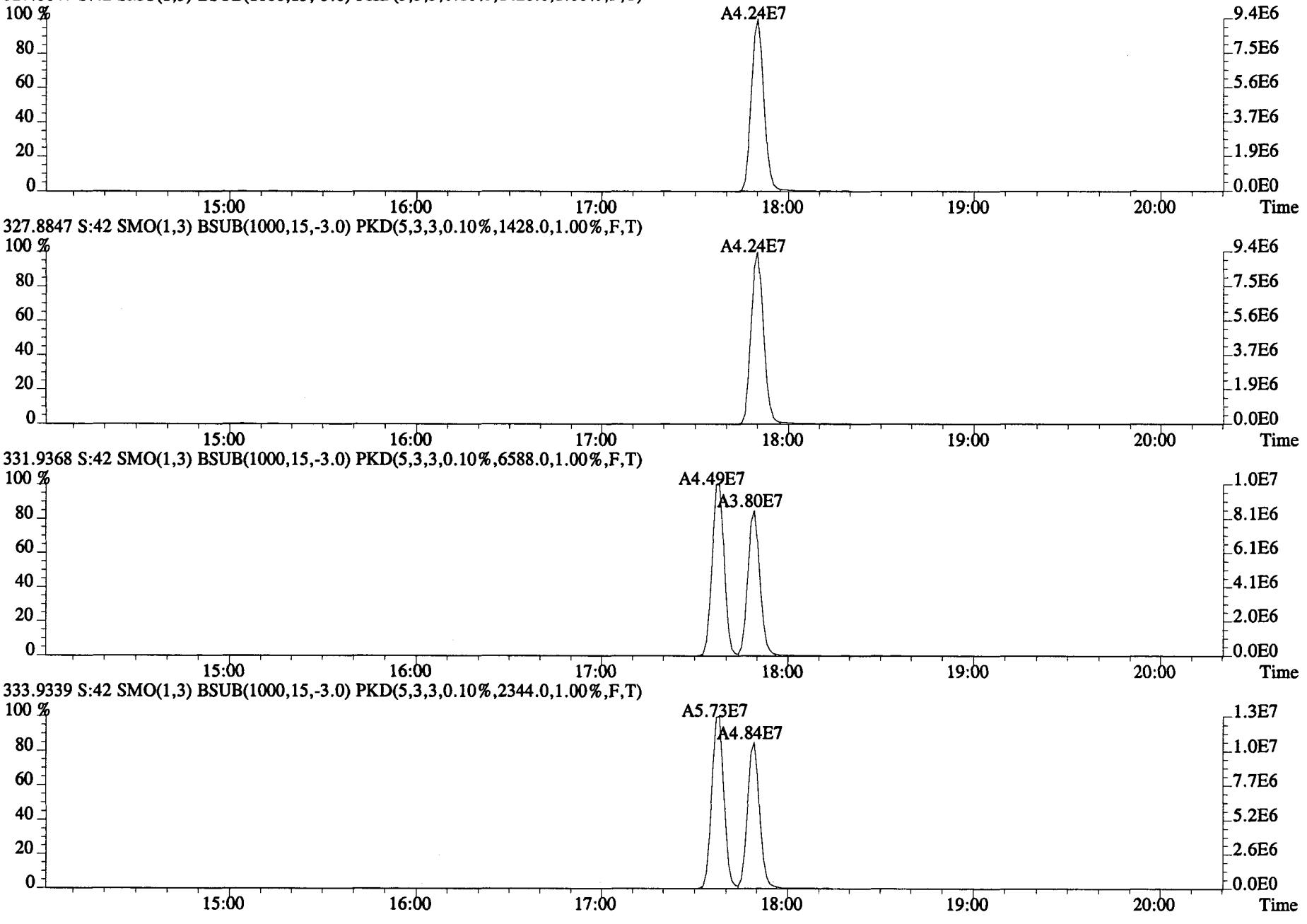


317.9389 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2132.0,1.00%,F,T)

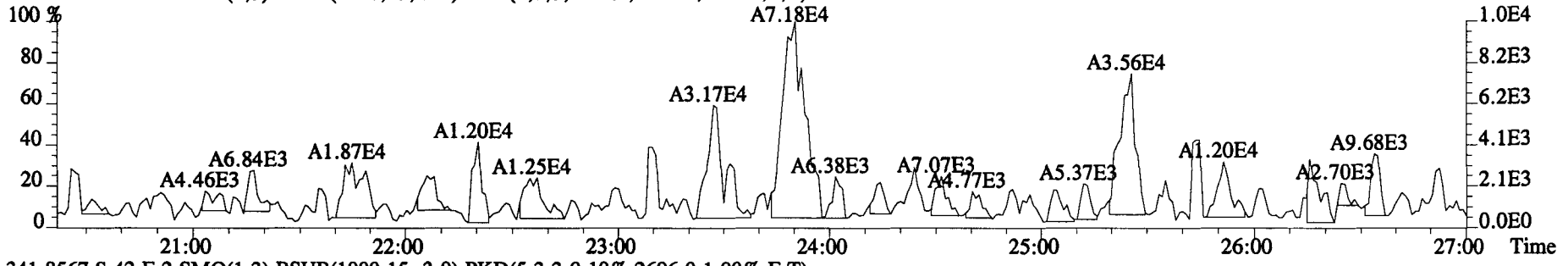



File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
319.8965 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1800.0,1.00%,F,T)
A5.95E4
A4.60E4
A2.69E4
A2.28E4
A2.26E4
A1.29E4
A4.99E3
A1.26E4
A7.08E3
A2.04E4
A1.84E4
A1.59E4
A6.77E3
A1.44E4
321.8936 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1712.0,1.00%,F,T)
A3.57E4
A6.04E4
A2.60E4
A1.84E4
A1.62E4
A2.92E4
A1.89E4
A1.94E4
A1.56E4
A1.45E4
A1.05E4
A8.85E3
A8.57E3
A1.38E4
A1.58E4
A6.17E3
331.9368 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6588.0,1.00%,F,T)
A4.49E7
A3.80E7
333.9339 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2344.0,1.00%,F,T)
A5.73E7
A4.84E7
100 %
80
60
40
20
0
15:00
16:00
17:00
18:00
19:00
20:00
Time
1.5E4
1.2E4
9.1E3
6.1E3
3.0E3
0.0E0
1.2E4
9.2E3
6.9E3
4.6E3
2.3E3
0.0E0
1.0E7
8.1E6
6.1E6
4.1E6
2.0E6
0.0E0
1.3E7
1.0E7
7.7E6
5.2E6
2.6E6
0.0E0

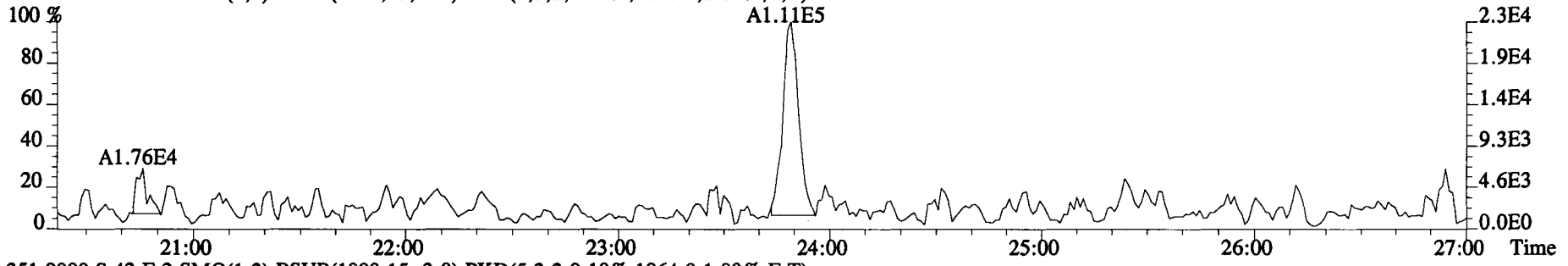
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES



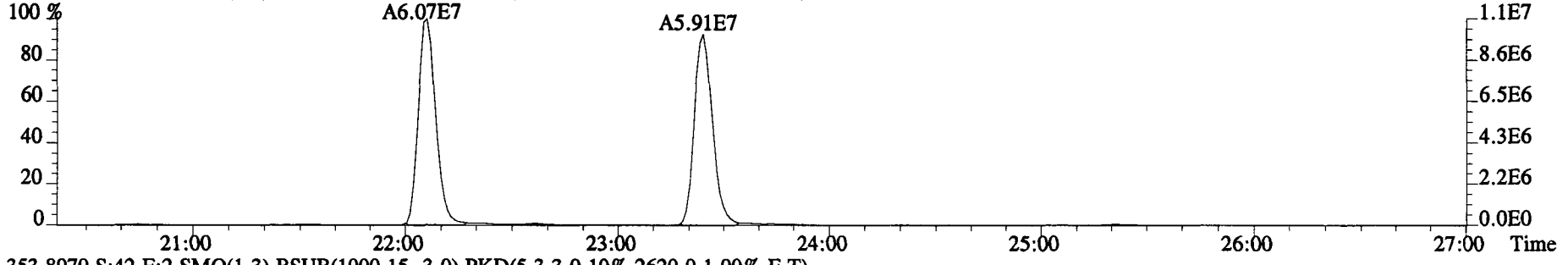
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
339.8597 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)



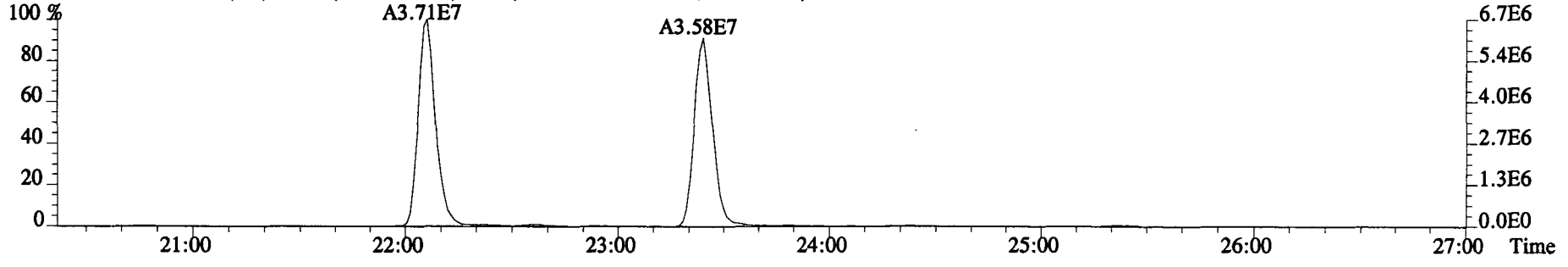
341.8567 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)



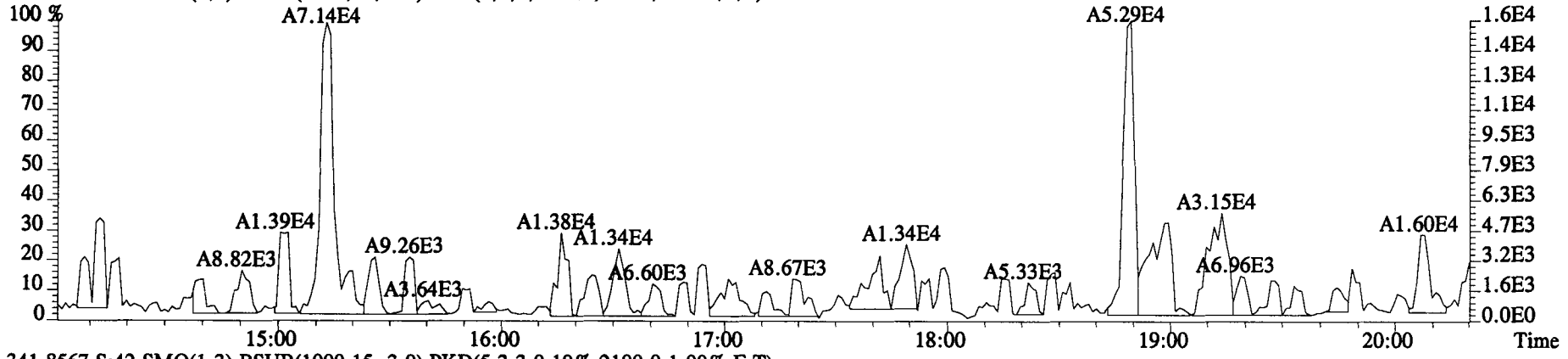
351.9000 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1864.0,1.00%,F,T)



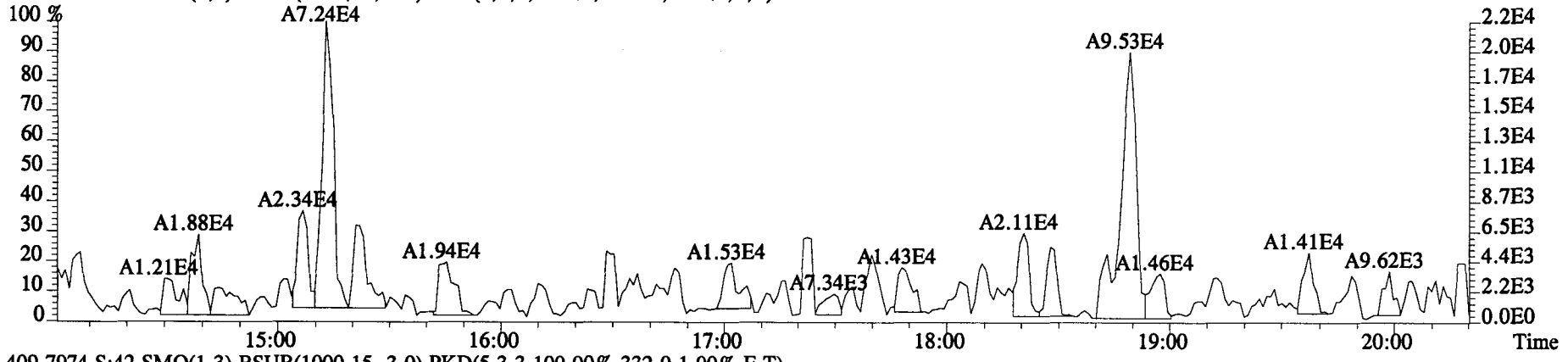
353.8970 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2620.0,1.00%,F,T)



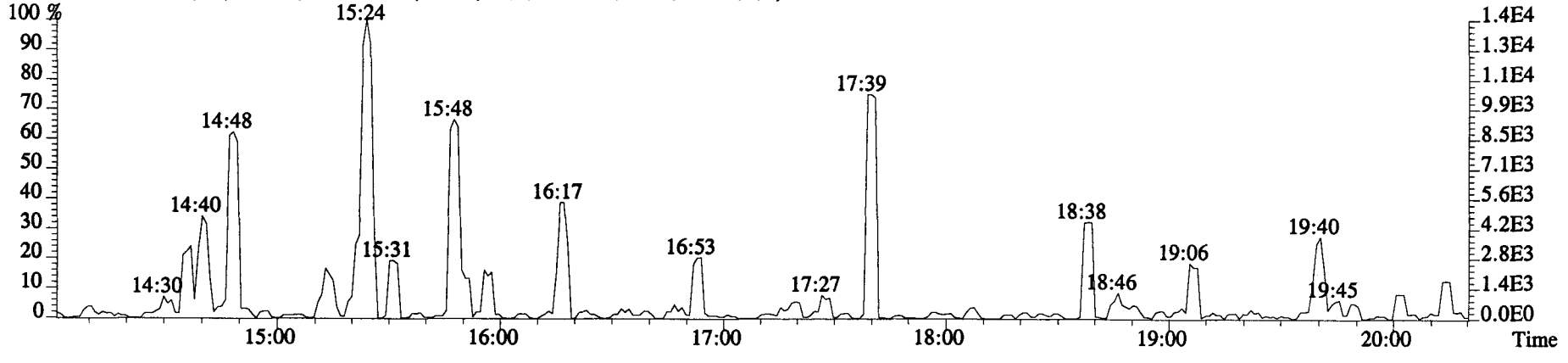
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
339.8597 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



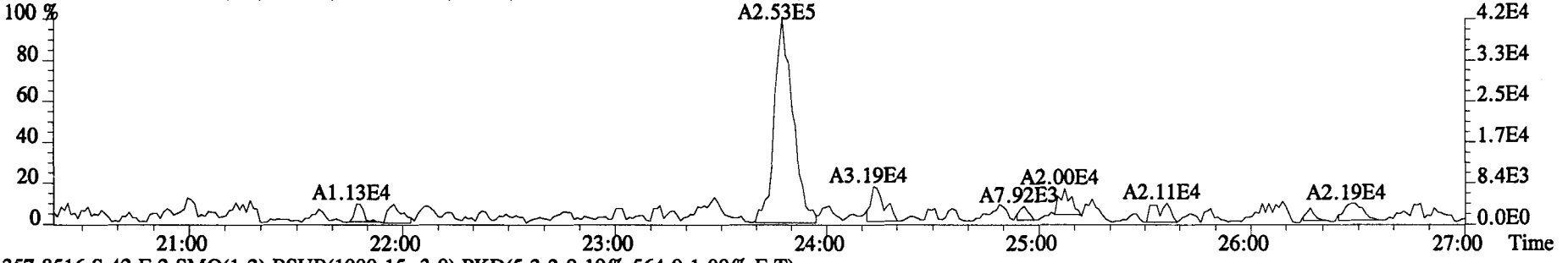
341.8567 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2100.0,1.00%,F,T)



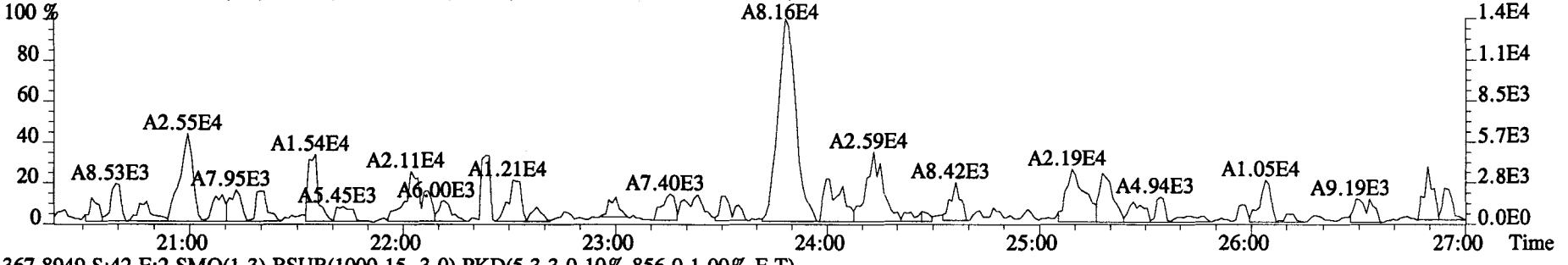
409.7974 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,332.0,1.00%,F,T)



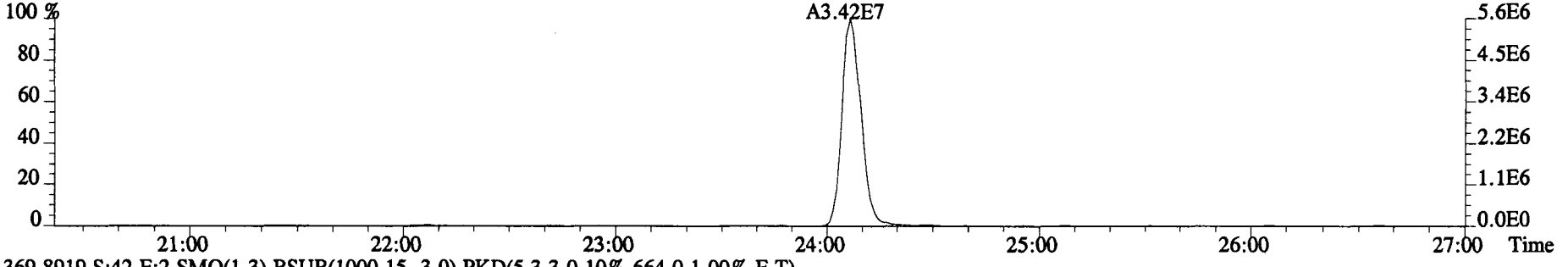
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
355.8546 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2220.0,1.00%,F,T)



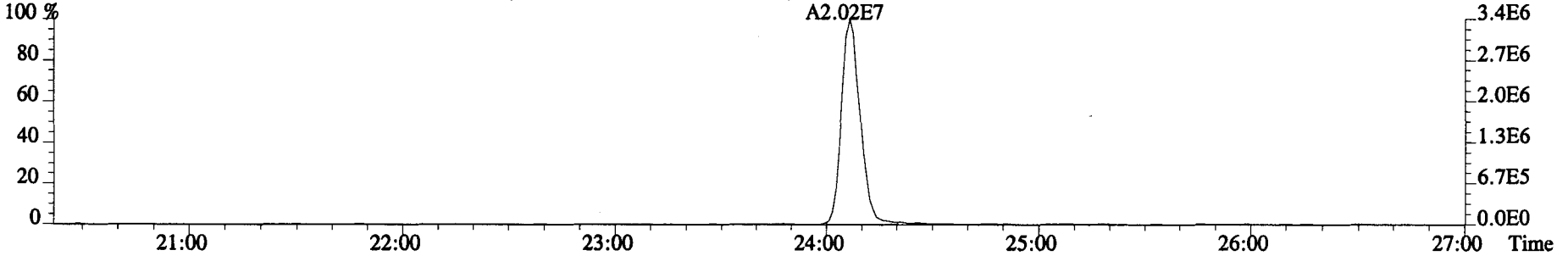
357.8516 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,564.0,1.00%,F,T)



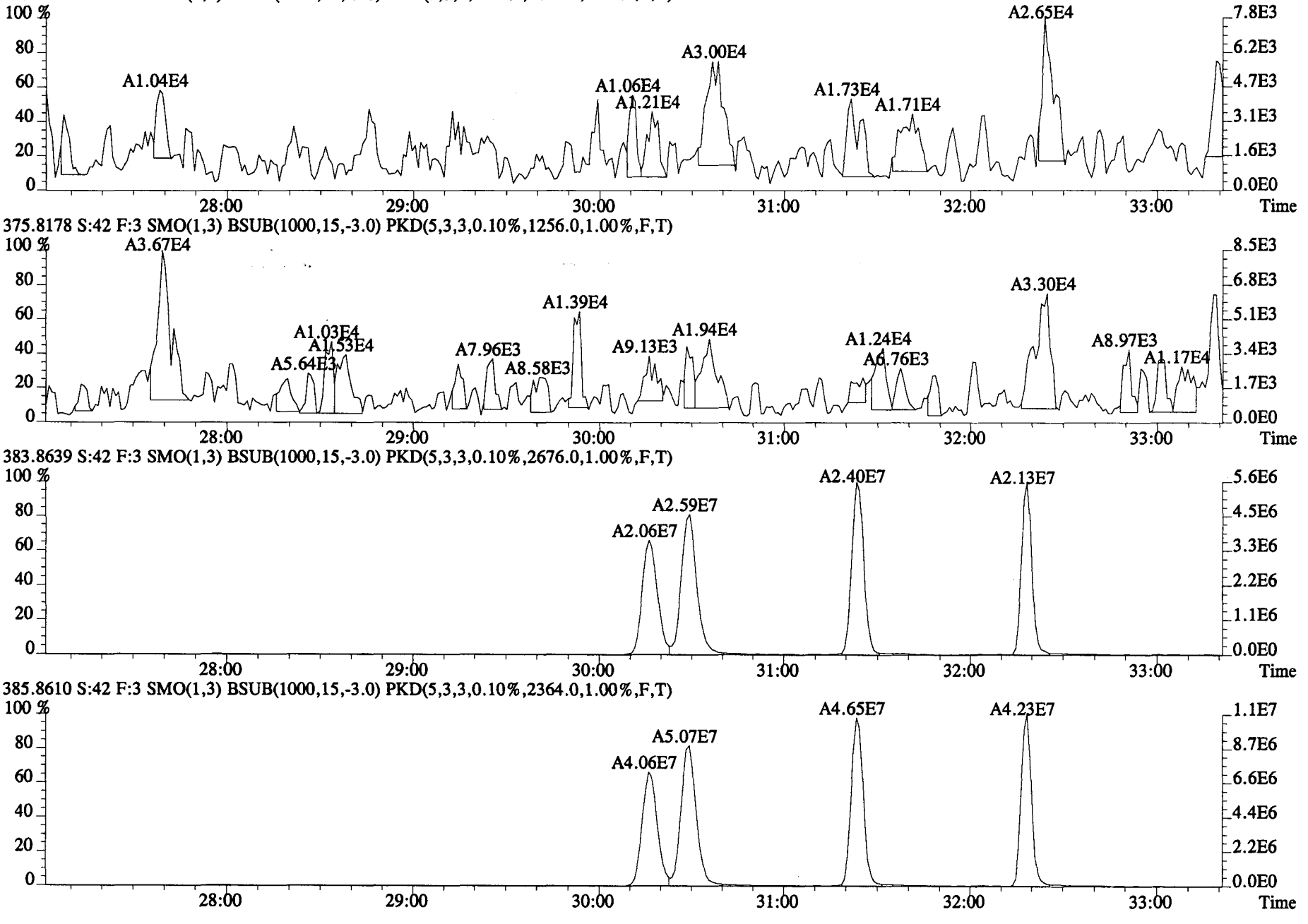
367.8949 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,856.0,1.00%,F,T)



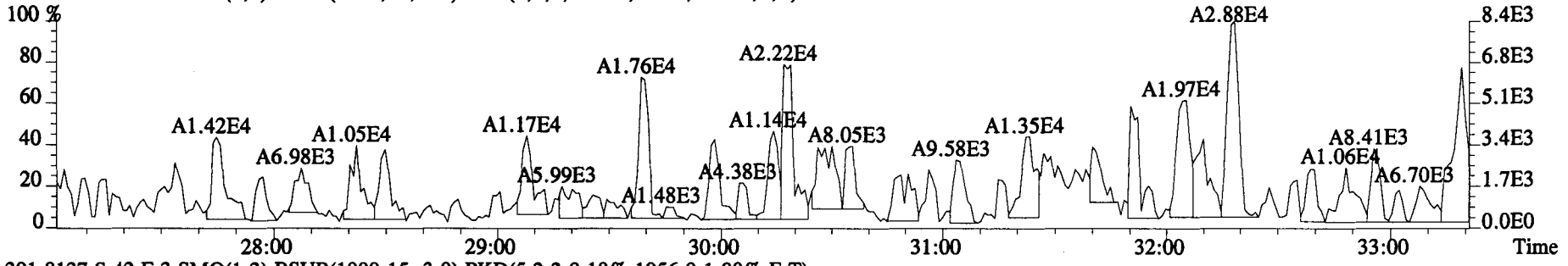
369.8919 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



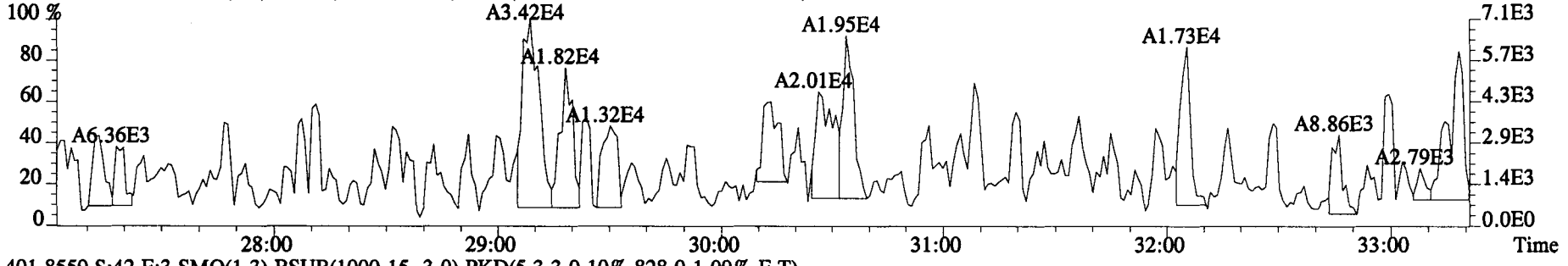
File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES



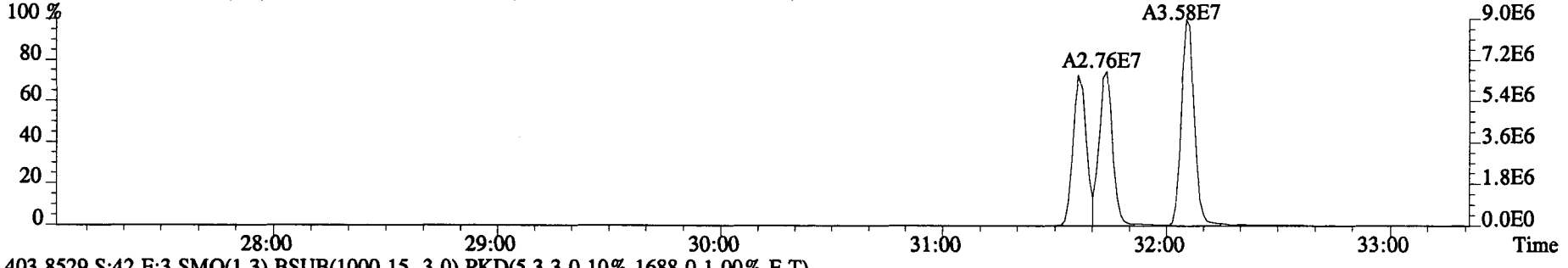
File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
389.8157 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,864.0,1.00%,F,T)



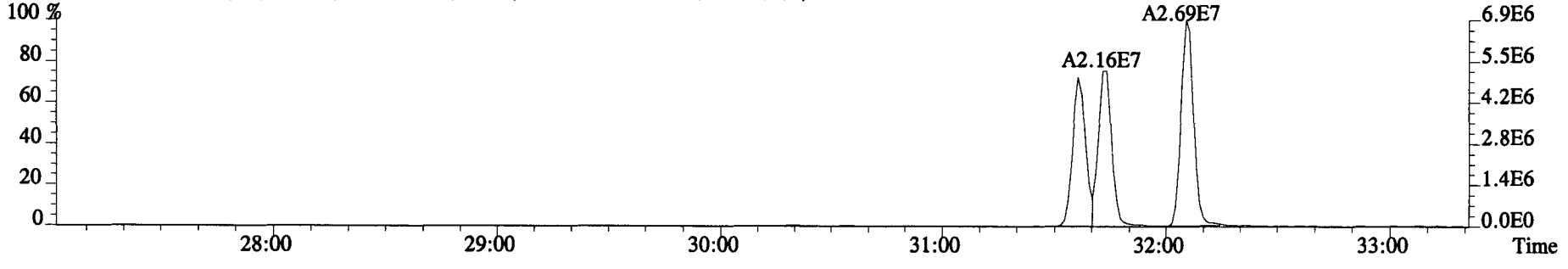
391.8127 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1956.0,1.00%,F,T)



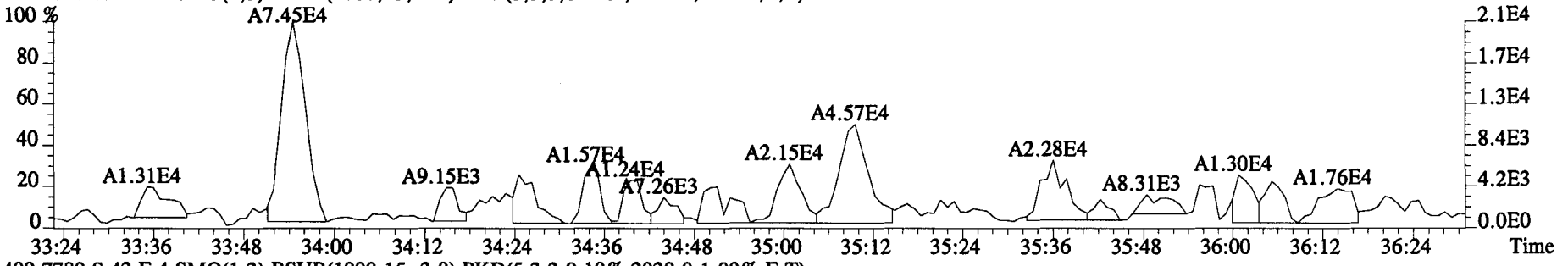
401.8559 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)



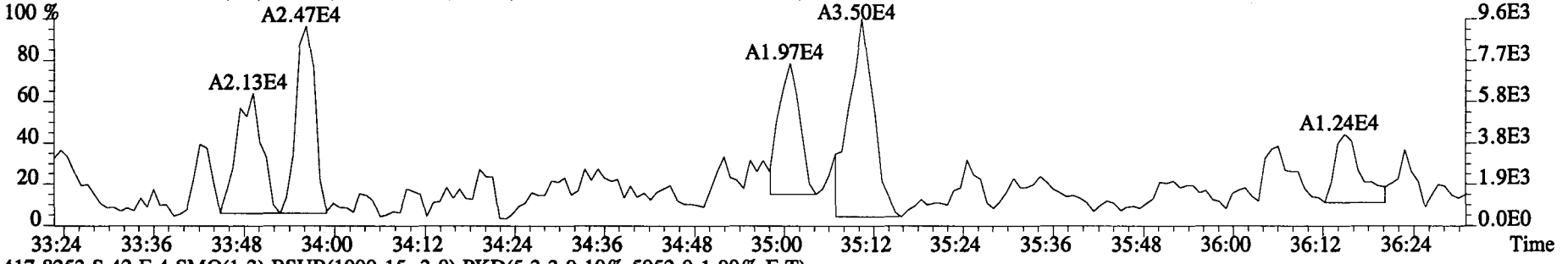
403.8529 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1688.0,1.00%,F,T)



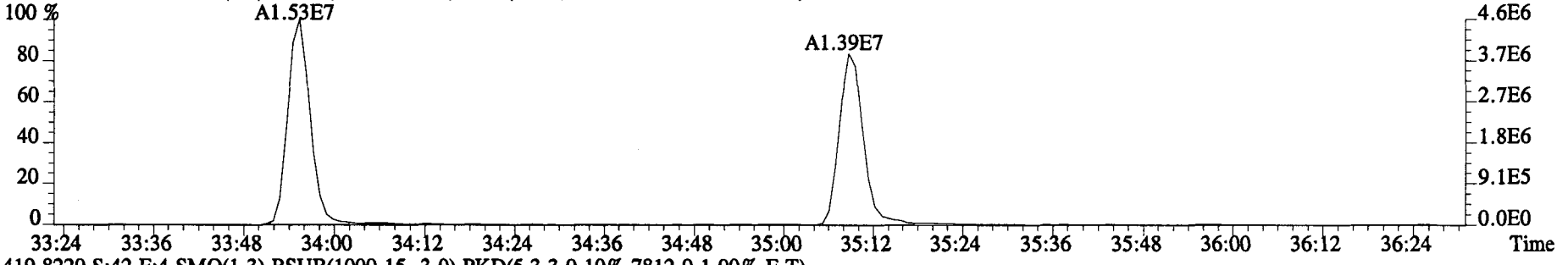
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
407.7818 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



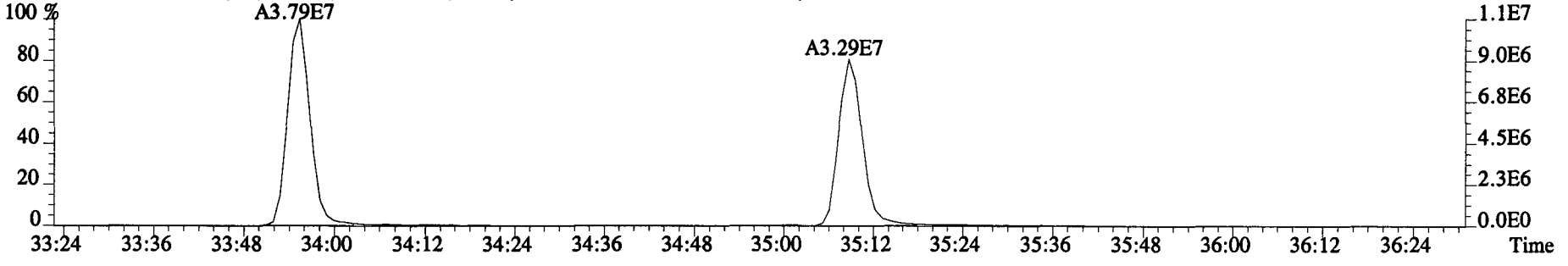
409.7789 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



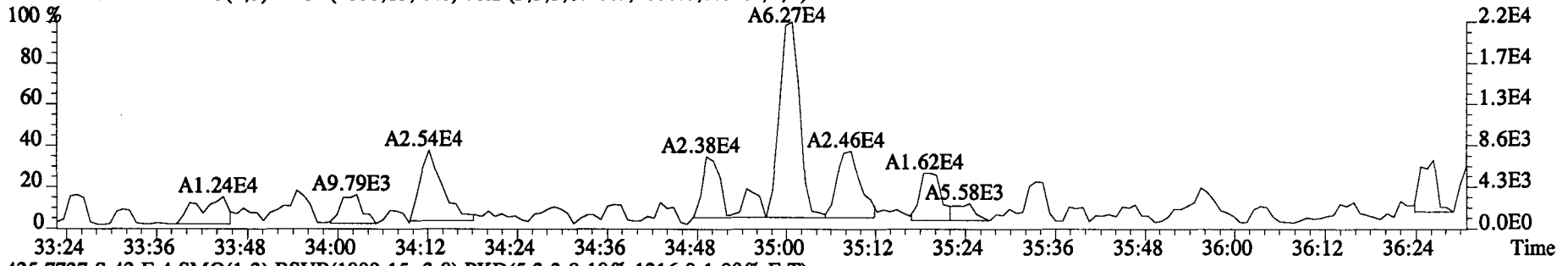
417.8253 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5952.0,1.00%,F,T)



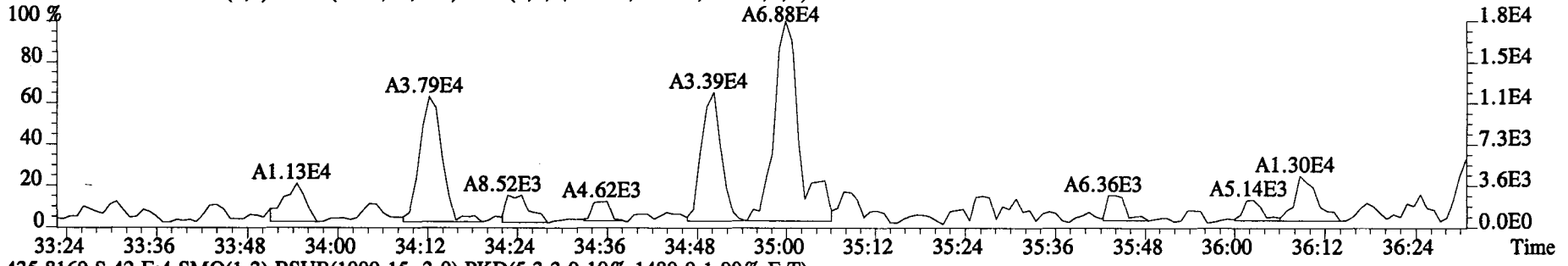
419.8220 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7812.0,1.00%,F,T)



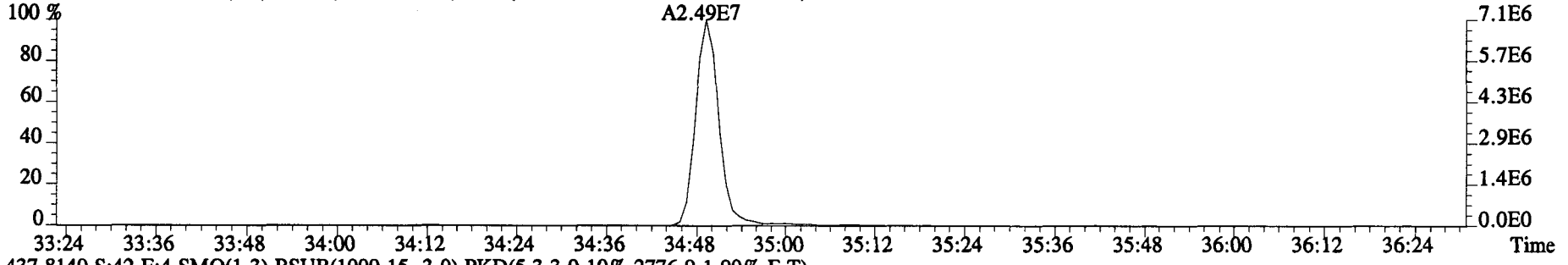
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
423.7766 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2000.0,1.00%,F,T)



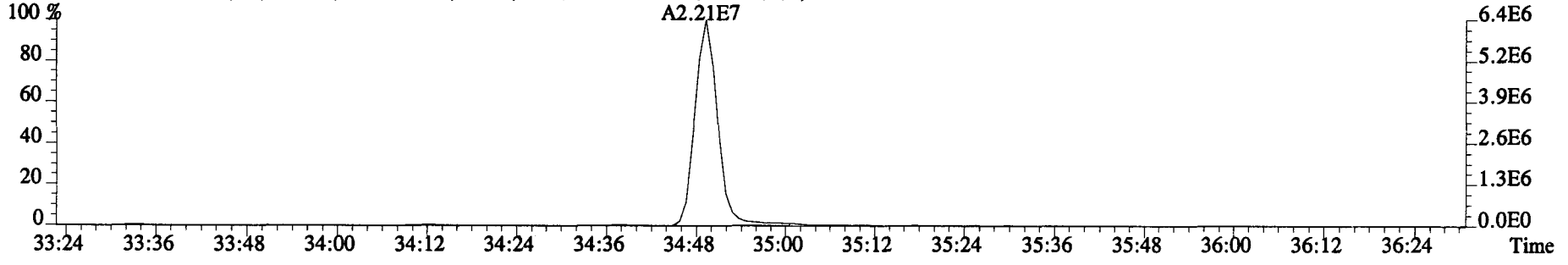
425.7737 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)



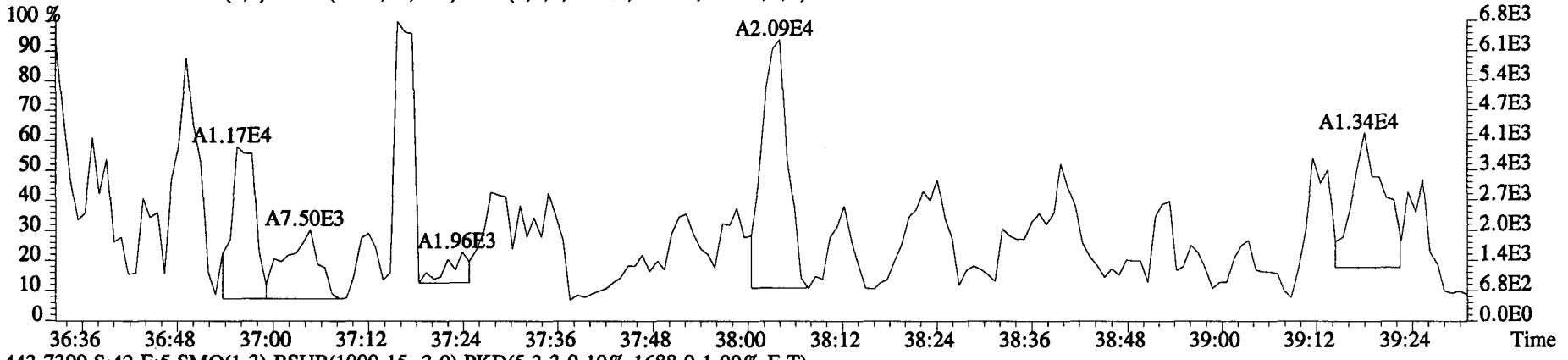
435.8169 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1480.0,1.00%,F,T)



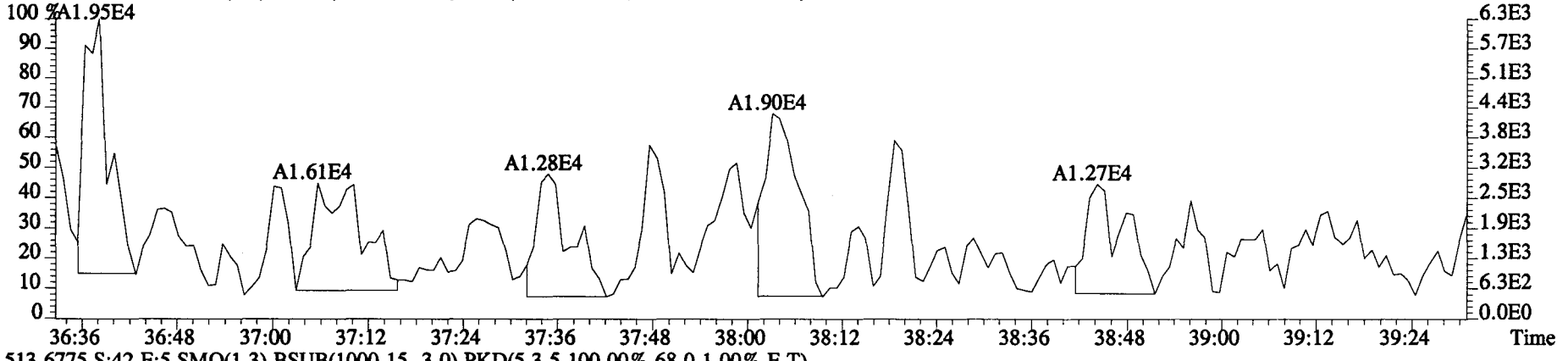
437.8140 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2776.0,1.00%,F,T)



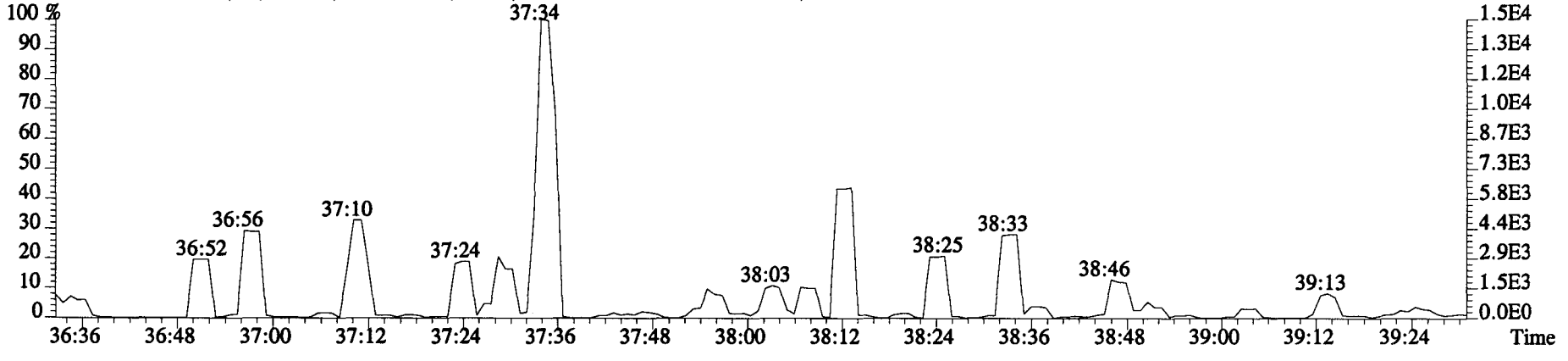
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
441.7428 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1924.0,1.00%,F,T)



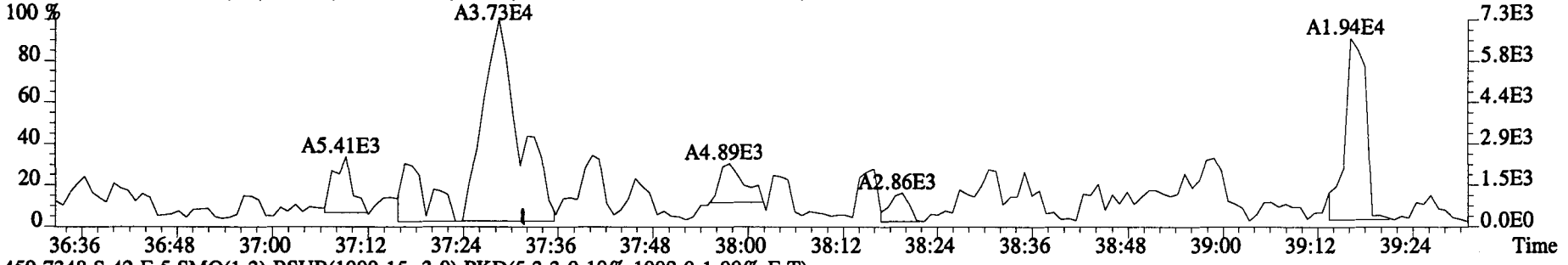
443.7399 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1688.0,1.00%,F,T)



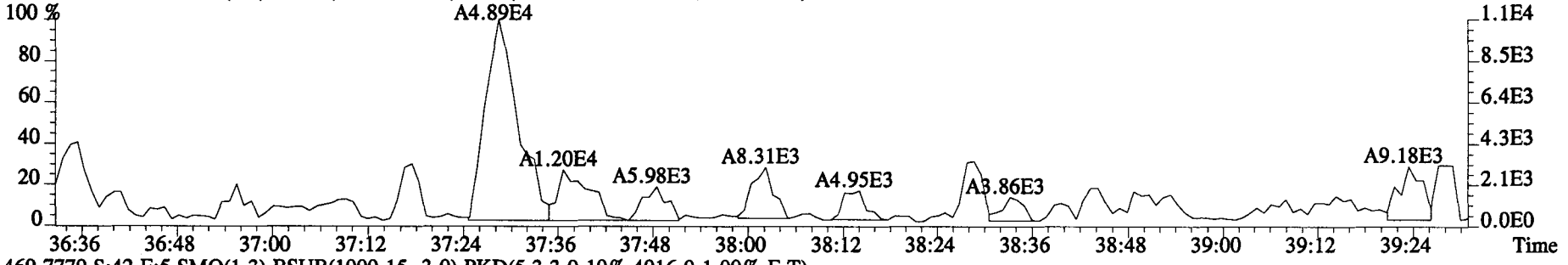
513.6775 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,68.0,1.00%,F,T)



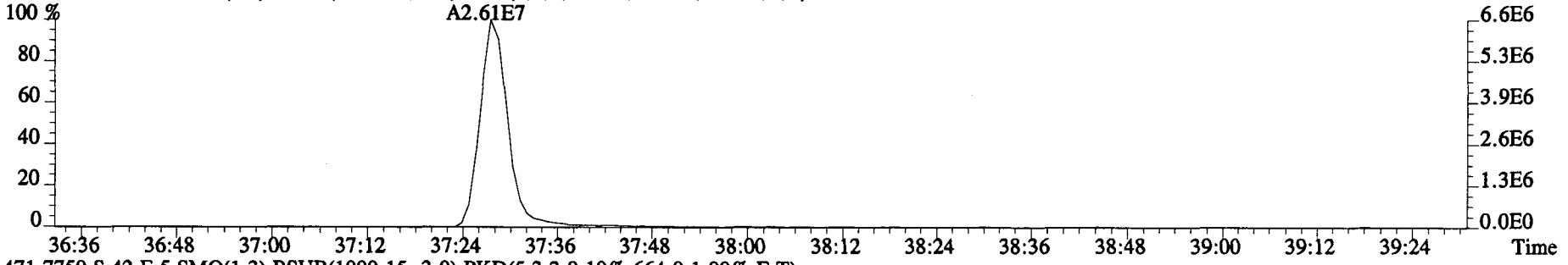
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
457.7377 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1440.0,1.00%,F,T)



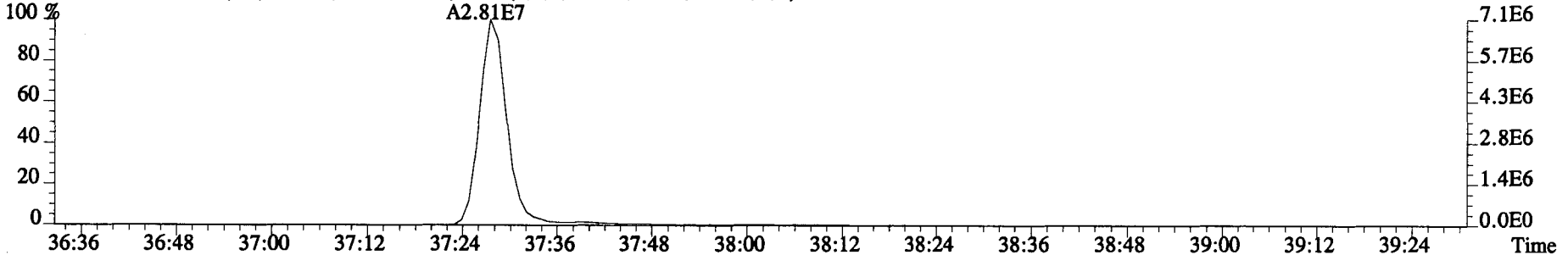
459.7348 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)



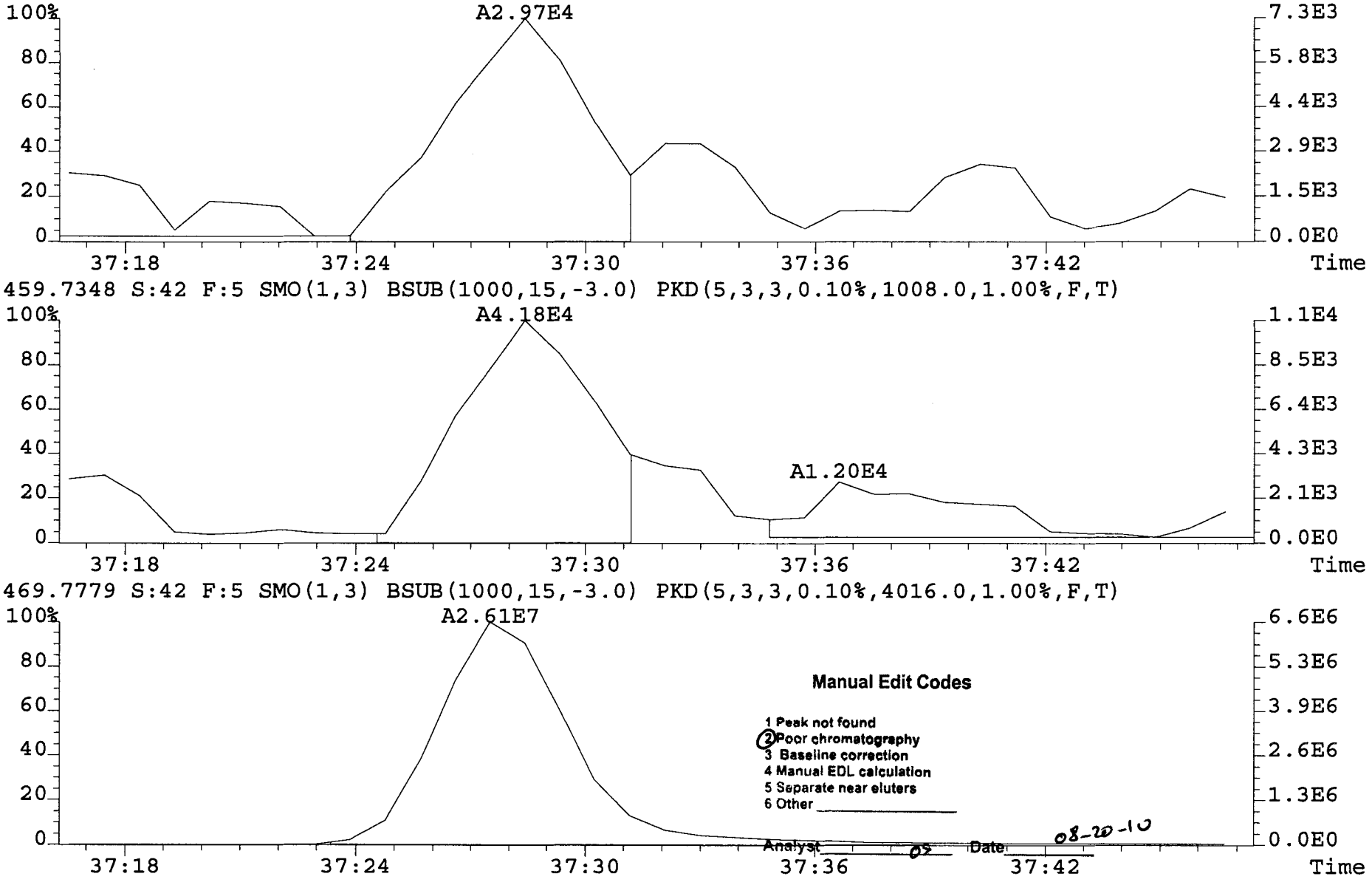
469.7779 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4016.0,1.00%,F,T)



471.7750 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1M Exp:DIOXINRES



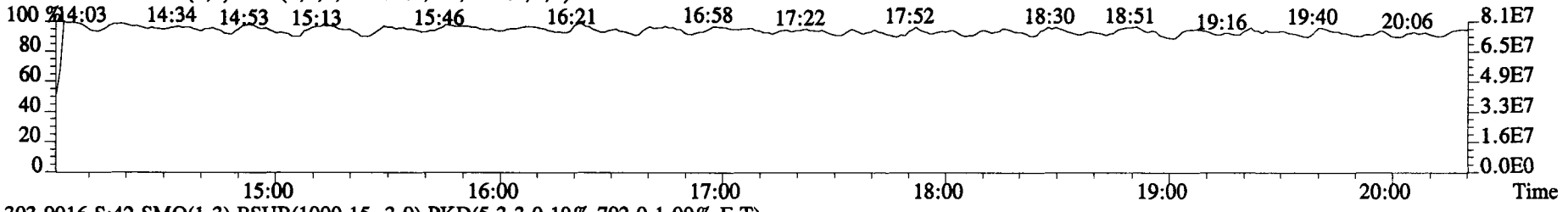
Manual Edit Codes

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

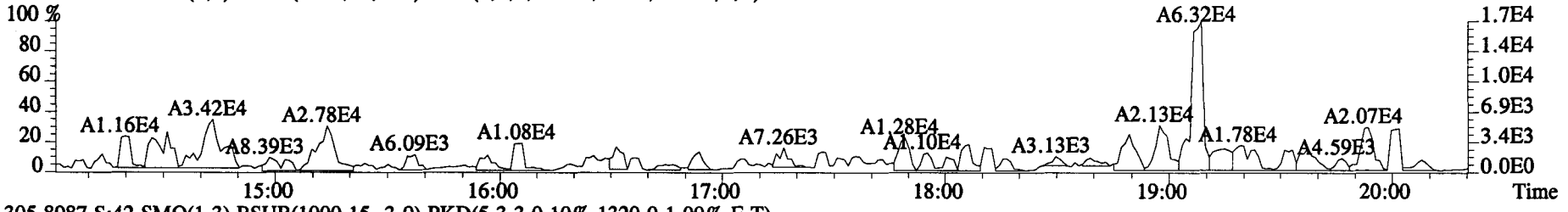
Analyst _____ Date 08-20-10

File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES

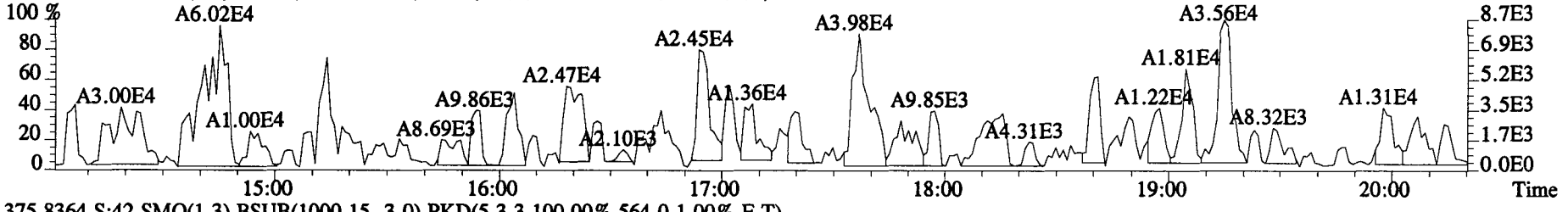
292.9825 S:42 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



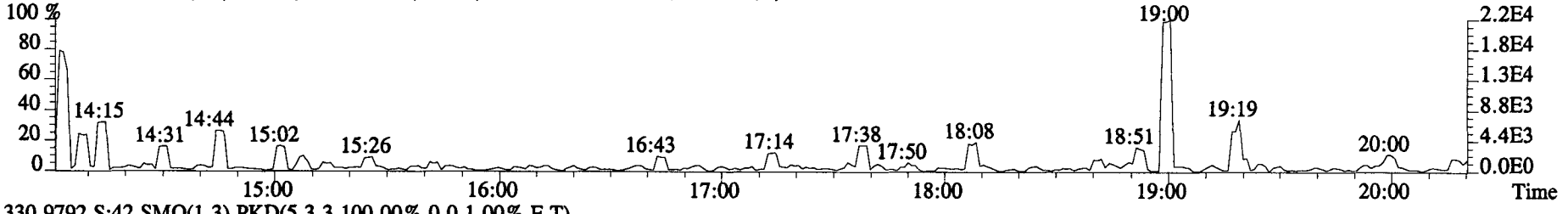
303.9016 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)



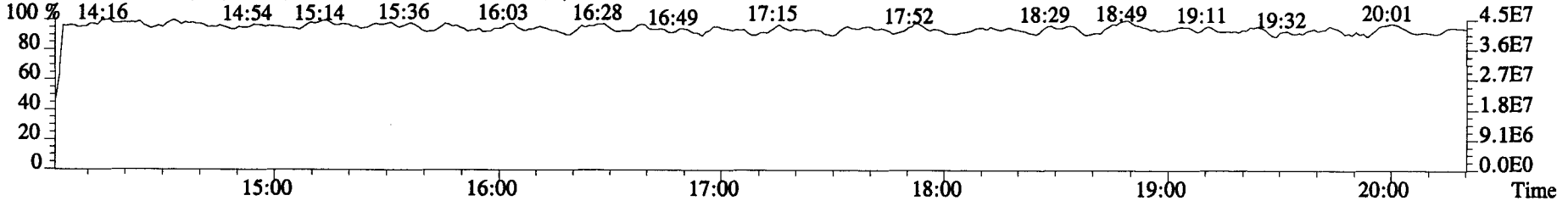
305.8987 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)



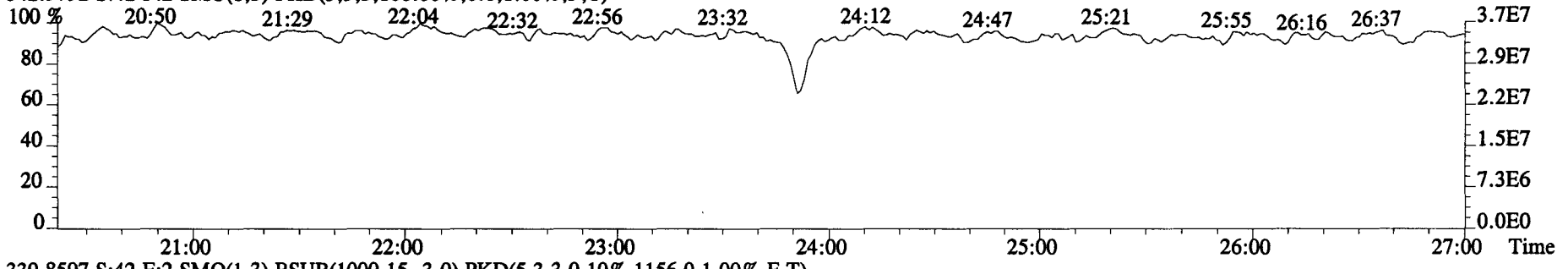
375.8364 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,564.0,1.00%,F,T)



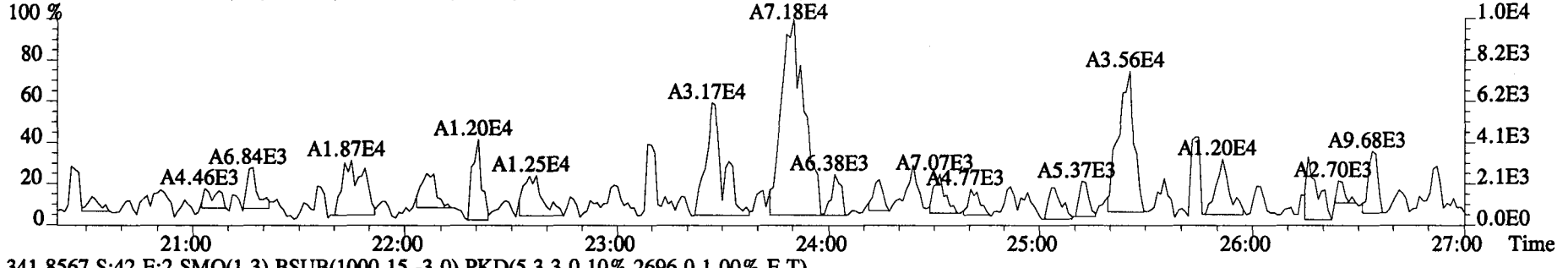
330.9792 S:42 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



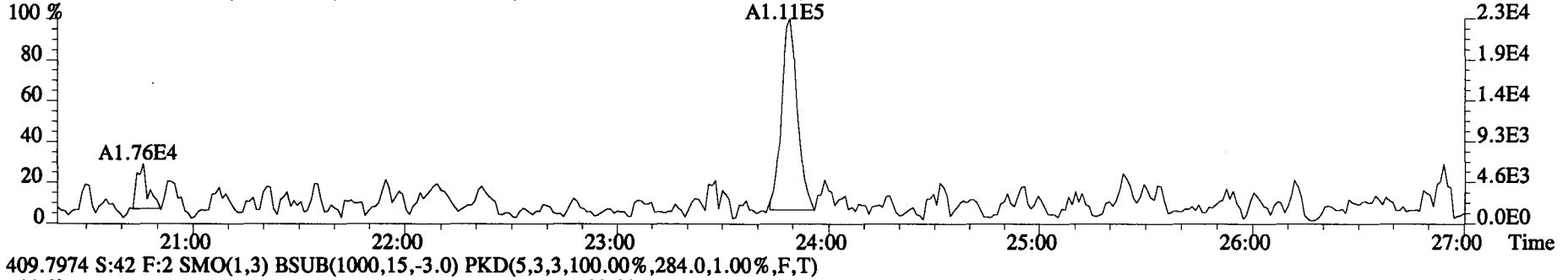
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
342.9792 S:42 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



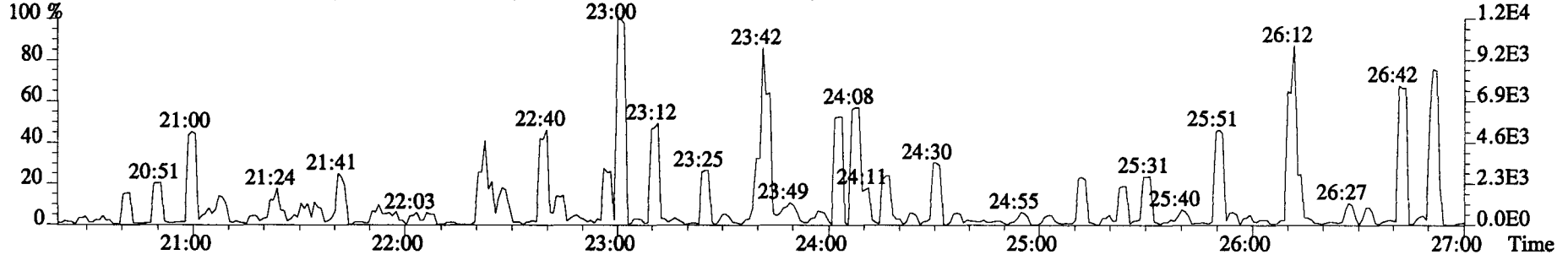
339.8597 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)



341.8567 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)

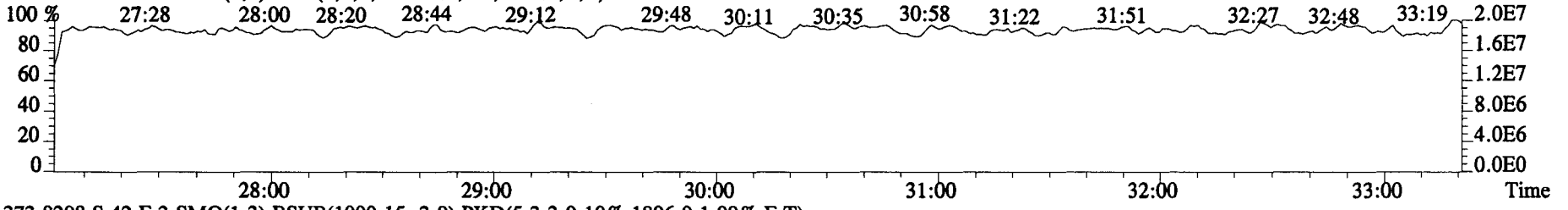


409.7974 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,284.0,1.00%,F,T)

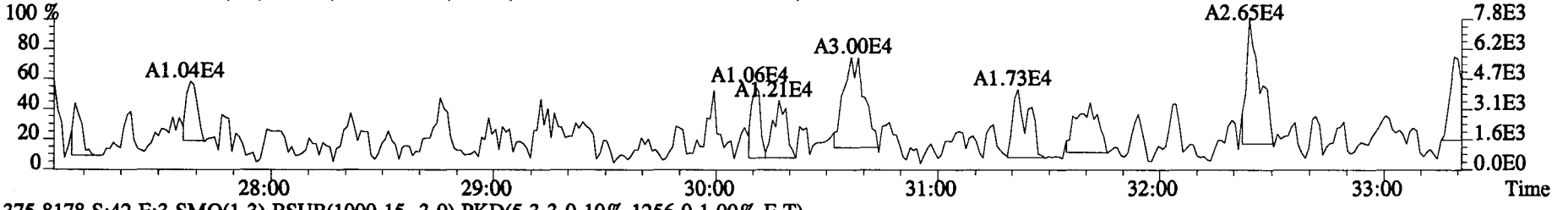


File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES

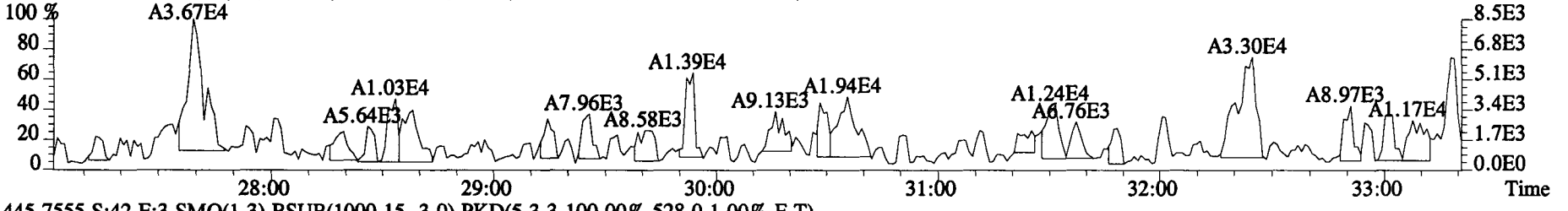
392.9760 S:42 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



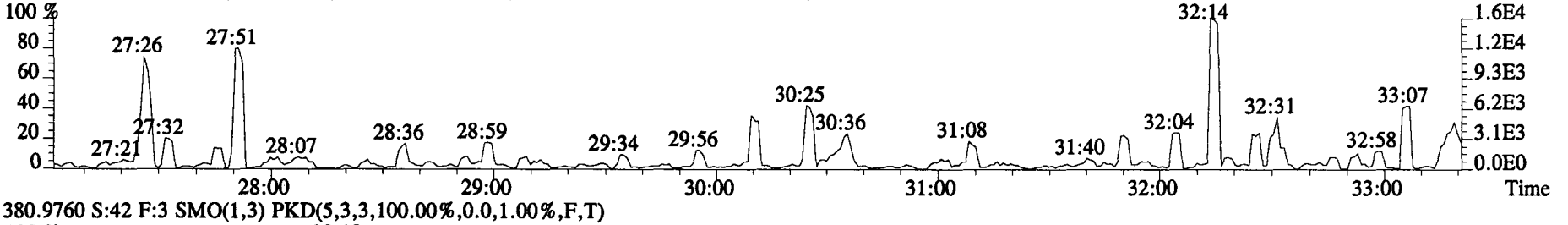
373.8208 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)



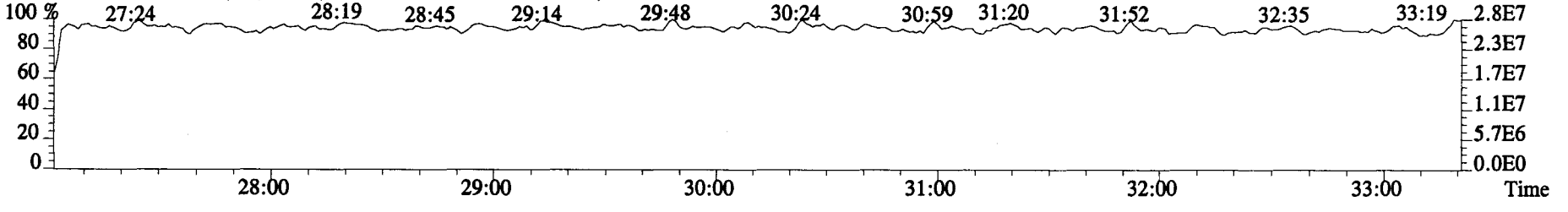
375.8178 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)



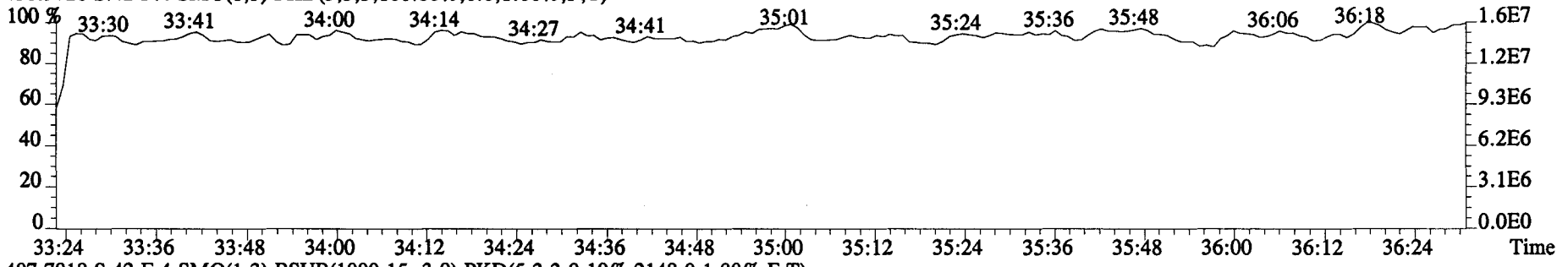
445.7555 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,528.0,1.00%,F,T)



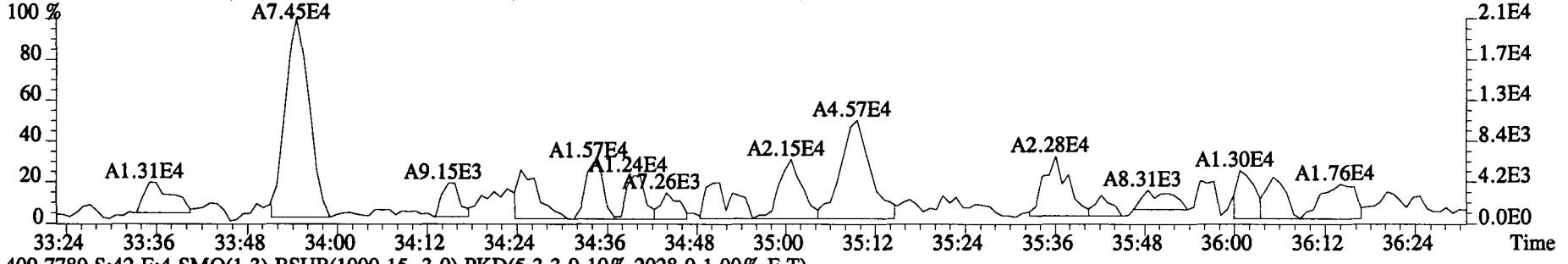
380.9760 S:42 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



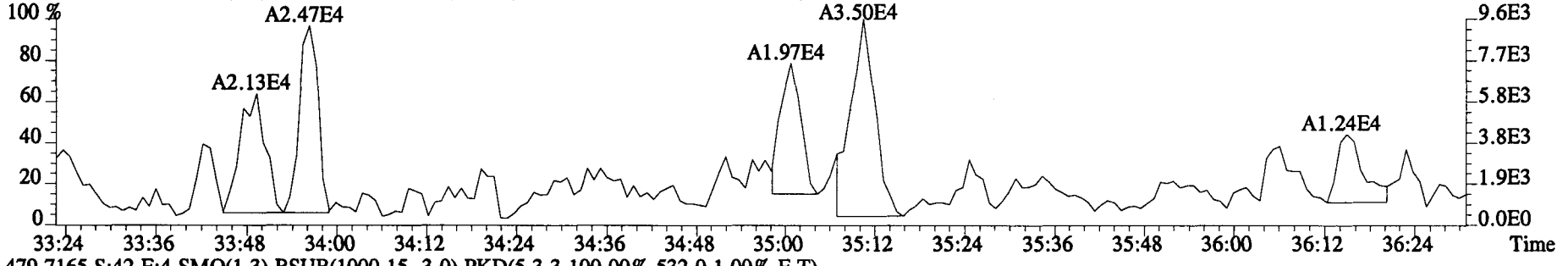
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
430.9728 S:42 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



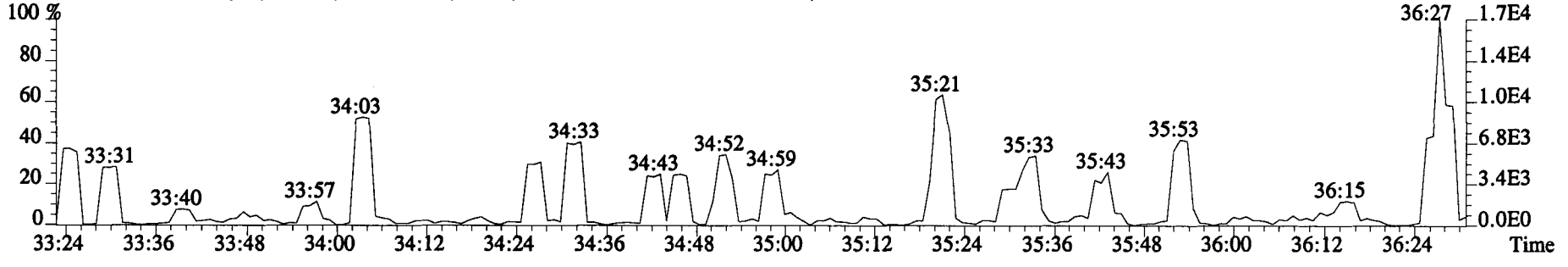
407.7818 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



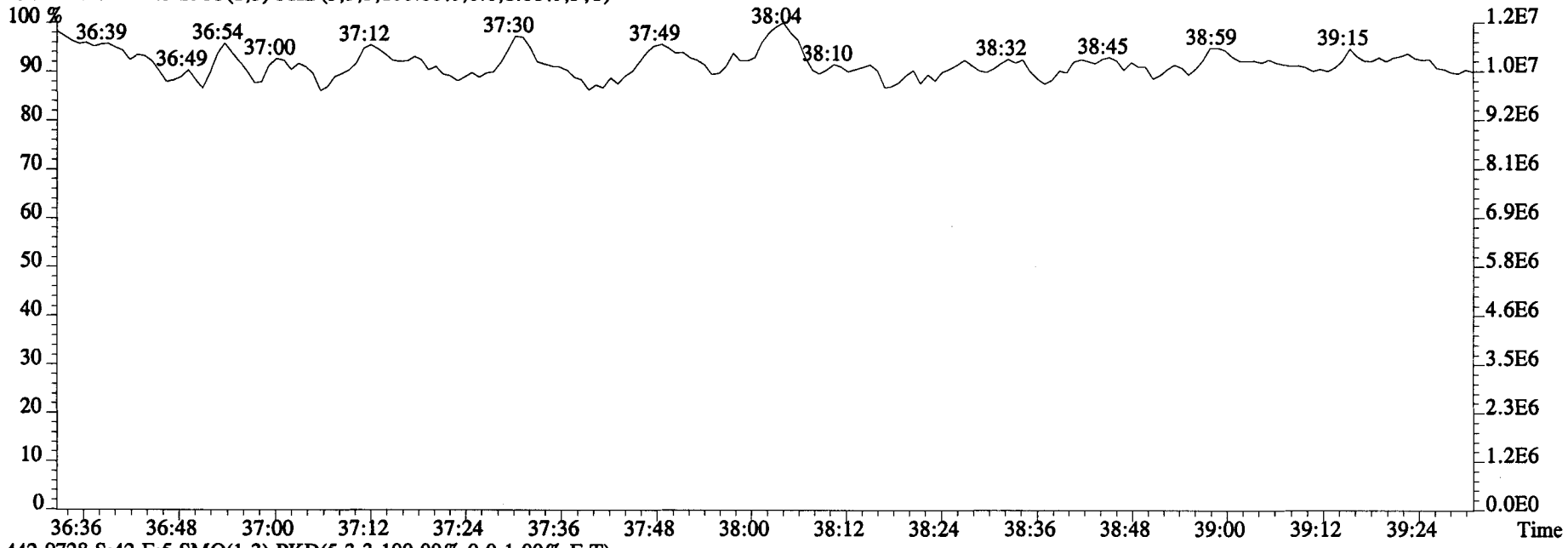
409.7789 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



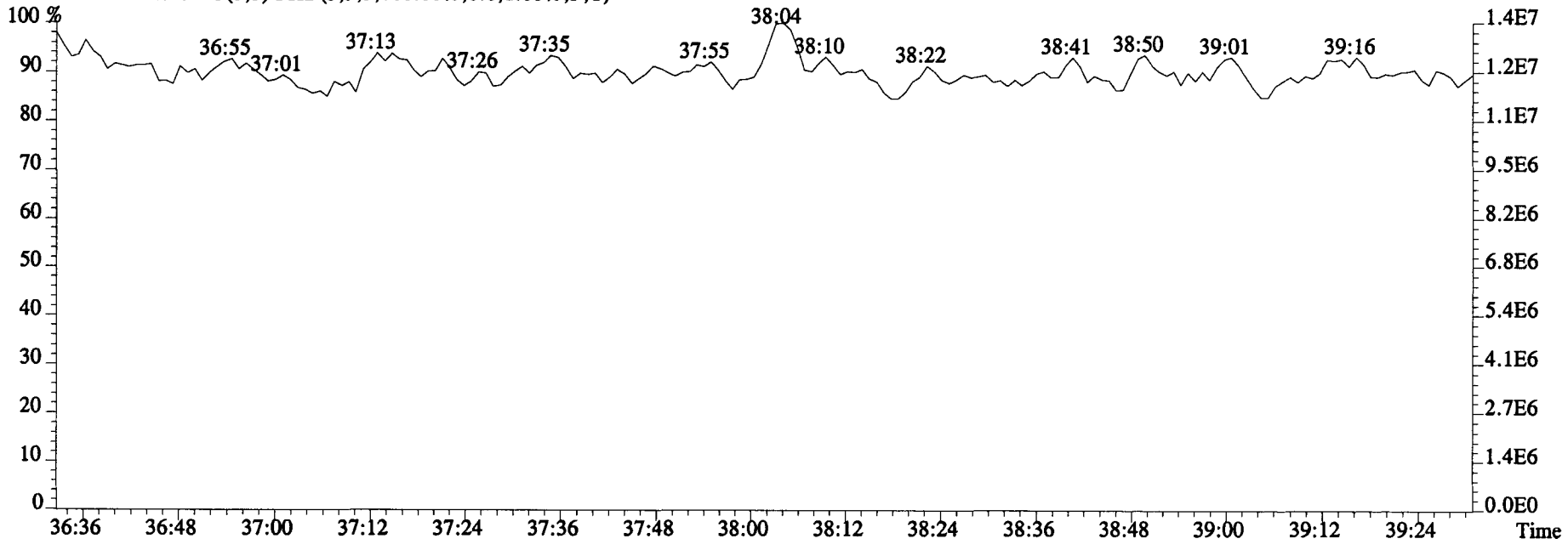
479.7165 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,532.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
454.9728 S:42 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:42 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

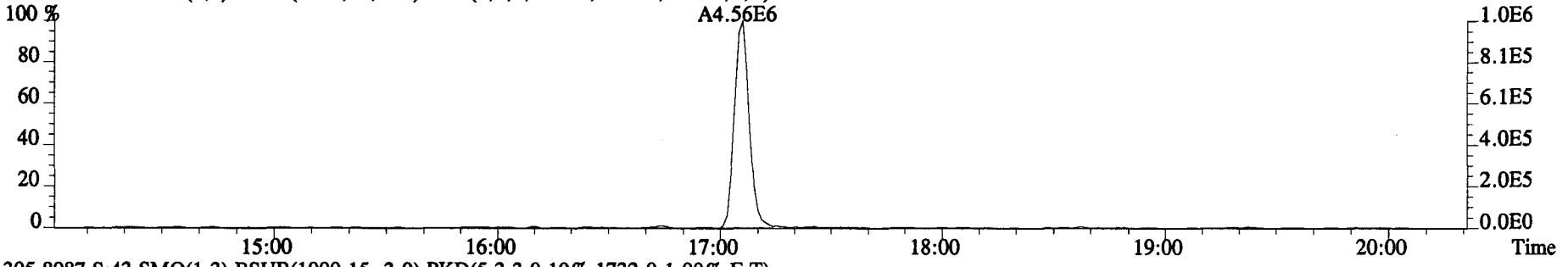


Run text: L5LC4-1-ACC Sample text: L5LC4-1-ACC :G0H140454-1LCS
Run #9 Filename: 16AU10B1D5 S: 43 I: 1 Results: 16AU10B1D5TO9
Acquired: 17-AUG-10 22:58:21 Processed: 18-AUG-10 10:46:46
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

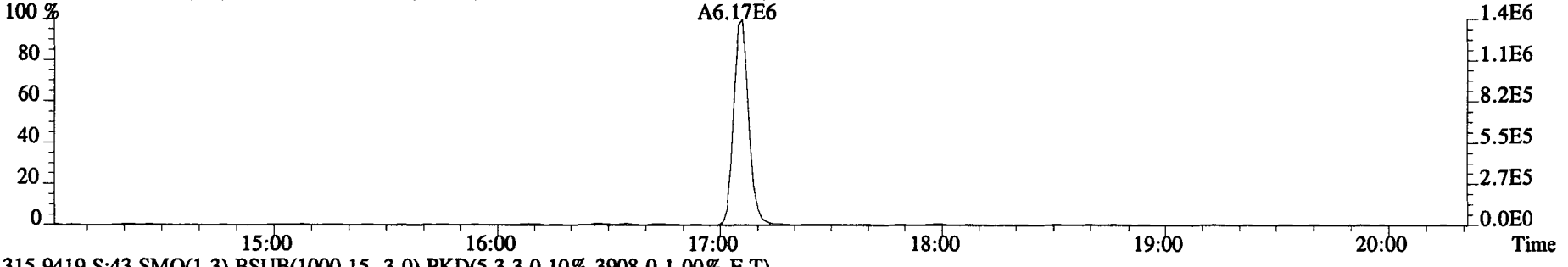
05
08-20-10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	94901300	0.82	y	17:36	-	50.42	-	-	n
13C-2,3,7,8-TCDF	126158100	0.80	y	17:05	1.56	3404.93	1.61	85.1	n
2,3,7,8-TCDF	10733870	0.74	y	17:06	0.87	388.95	1.37	-	n
Total TCDF	11157725	0.85	y	14:20	0.87	404.31	1.37	-	n
13C-2,3,7,8-TCDD	79707100	0.77	y	17:47	0.94	3591.86	4.38	89.8	n
2,3,7,8-TCDD	7101630	0.79	y	17:48	0.96	372.29	2.81	-	n
Total TCDD	7177343	3.29	n	17:05	0.96	376.26	2.81	-	n
37Cl-2,3,7,8-TCDD	186738	1.00	y	17:48	1.22	7.71	1.08	0.2	n
13C-1,2,3,7,8-PeCDF	86244800	1.71	y	22:04	1.06	3423.09	1.26	85.6	n
1,2,3,7,8-PeCDF	42692100	1.68	y	22:05	1.08	1833.52	3.32	-	n
2,3,4,7,8-PeCDF	41544300	1.62	y	23:23	0.98	1965.61	3.66	-	n
Total F2 PeCDF	85548935	0.83	n	20:44	1.03	3858.23	3.48	-	n
Total F1 PeCDF	217284	0.63	n	14:13	1.03	9.78	2.23	-	n
13C-1,2,3,7,8-PeCDD	47025800	1.72	y	24:05	0.65	3067.28	1.06	76.7	n
1,2,3,7,8-PeCDD	23445380	1.63	y	24:06	0.92	2156.44	5.97	-	n
Total PeCDD	23639013	1.35	y	22:58	0.92	2174.25	5.97	-	n
13C-1,2,3,7,8,9-HxCDD	56145100	1.28	y	32:04	-	39.50	-	-	n
13C-1,2,3,4,7,8-HxCDF	57131800	0.52	y	30:14	0.99	4127.81	10.41	103.2	n
1,2,3,4,7,8-HxCDF	34573700	1.26	y	30:16	1.15	2098.56	9.33	-	n
1,2,3,6,7,8-HxCDF	37958900	1.27	y	30:28	1.24	2138.33	8.66	-	n
2,3,4,6,7,8-HxCDF	35492100	1.22	y	31:23	1.22	2040.69	8.84	-	n
1,2,3,7,8,9-HxCDF	31608400	1.25	y	32:18	1.19	1867.48	9.08	-	n
Total HxCDF	139633100	1.26	y	30:16	1.20	8145.06	8.97	-	n
13C-1,2,3,6,7,8-HxCDD	42349900	1.30	y	31:43	0.77	3929.09	1.53	98.2	n
1,2,3,4,7,8-HxCDD	20580410	1.27	y	31:36	1.03	1889.34	6.12	-	n
1,2,3,6,7,8-HxCDD	22037330	1.32	y	31:44	1.11	1880.84	5.69	-	n
1,2,3,7,8,9-HxCDD	23524600	1.31	y	32:05	1.24	1788.46	5.07	-	n
Total HxCDD	66273401	2.46	n	31:22	1.13	5569.63	5.59	-	n
13C-1,2,3,4,6,7,8-HpCDF	46306800	0.41	y	33:54	0.98	3363.25	8.26	84.1	n
1,2,3,4,6,7,8-HpCDF	33771900	1.08	y	33:55	1.35	2161.46	5.08	-	n
1,2,3,4,7,8,9-HpCDF	27982000	1.04	y	35:09	1.19	2037.68	5.78	-	n
Total HpCDF	61753900	1.08	y	33:55	1.27	4199.14	5.41	-	n
13C-1,2,3,4,6,7,8-HpCDD	39978600	1.06	y	34:48	0.81	3535.09	3.09	88.4	n
1,2,3,4,6,7,8-HpCDD	20166710	1.08	y	34:49	1.03	1965.99	7.11	-	n
Total HpCDD	20250433	1.32	n	33:54	1.03	1974.15	7.11	-	n
13C-OCDD	46676700	0.91	y	37:27	0.62	5406.05	2.66	67.6	n
OCDF	39410300	0.87	y	37:34	1.44	4674.61	9.96	-	n
OCDD	28130300	0.86	y	37:27	1.09	4421.75	6.08	-	n

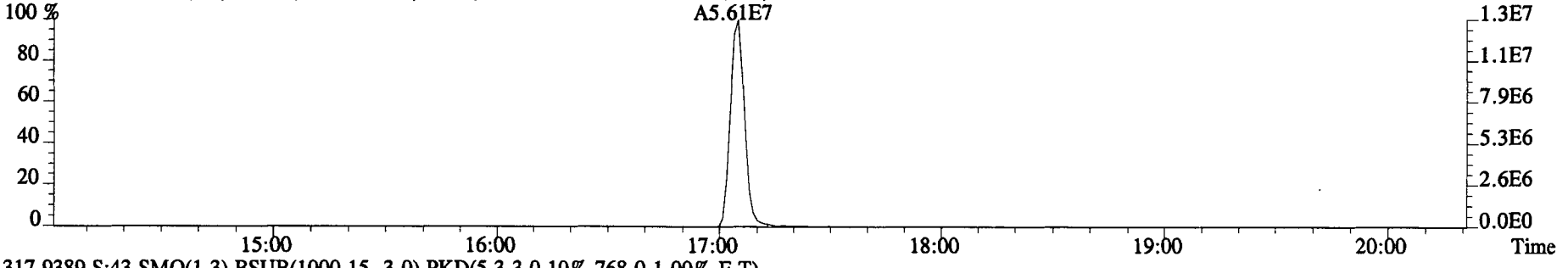
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
303.9016 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1232.0,1.00%,F,T)



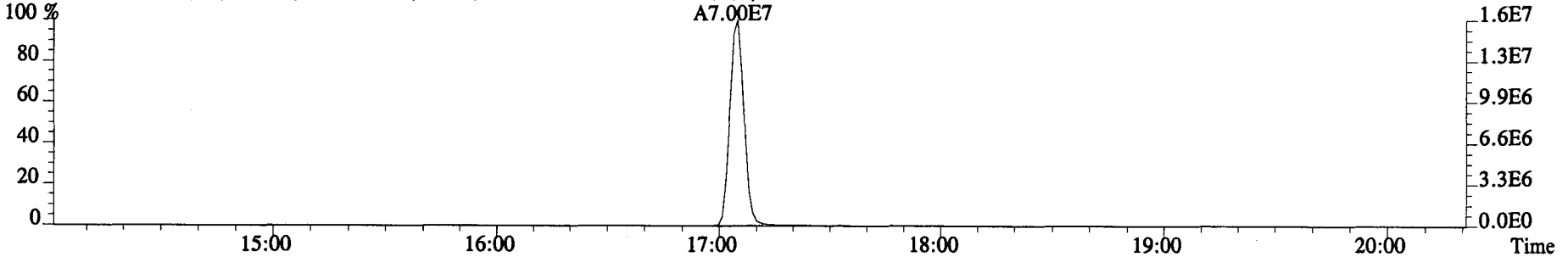
305.8987 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1732.0,1.00%,F,T)



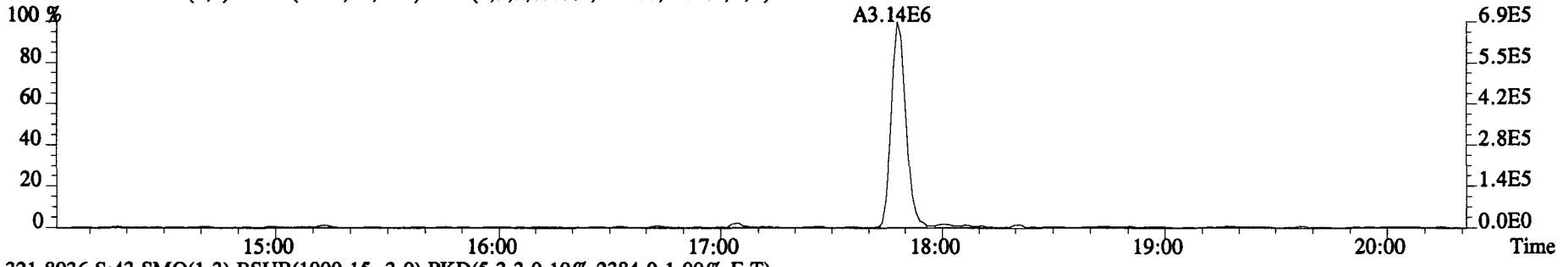
315.9419 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)



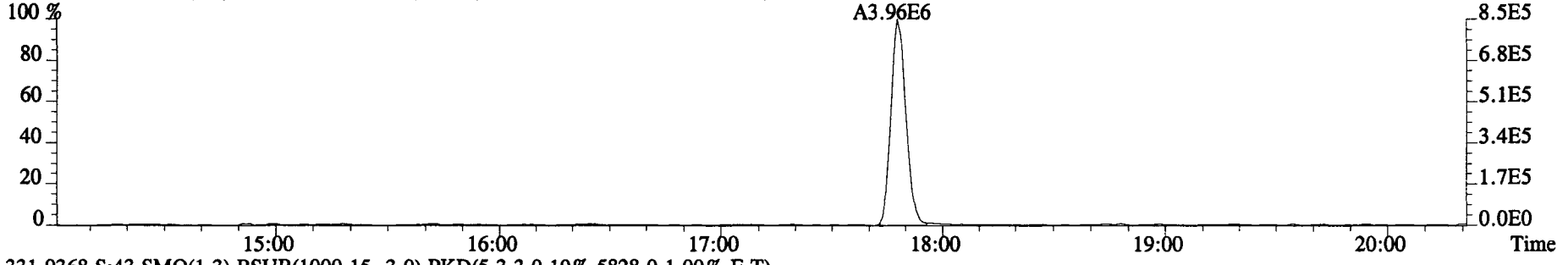
317.9389 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768.0,1.00%,F,T)



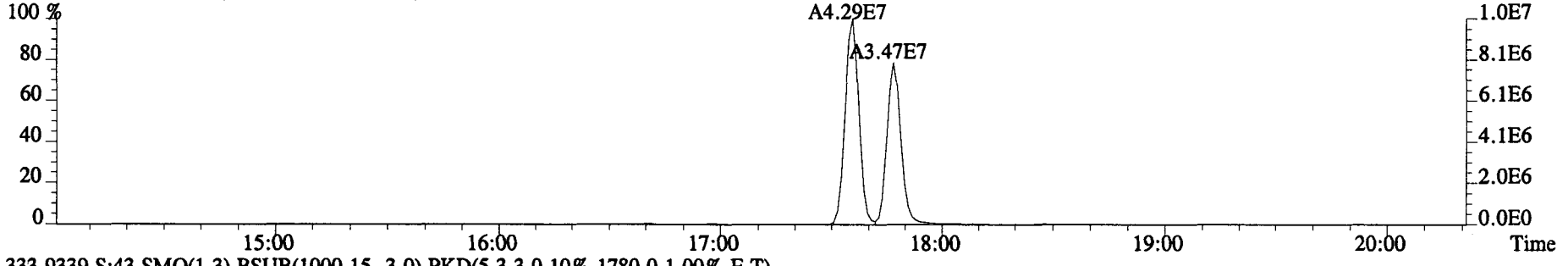
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
319.8965 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1724.0,1.00%,F,T)



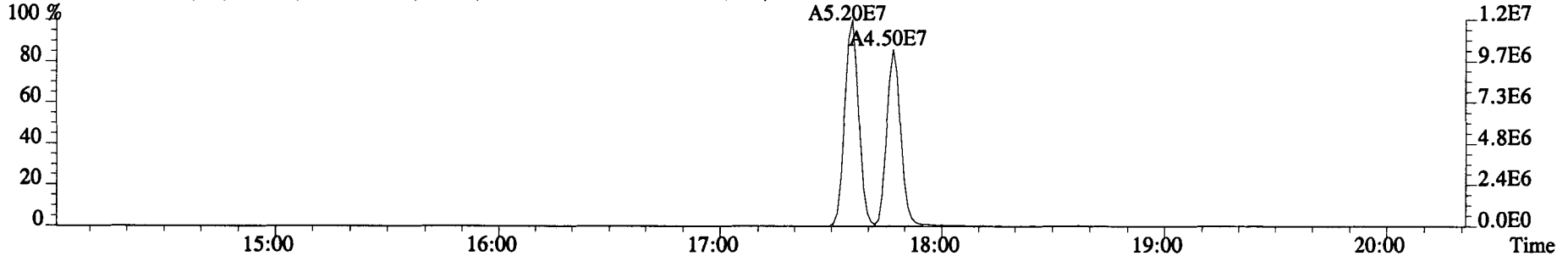
321.8936 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



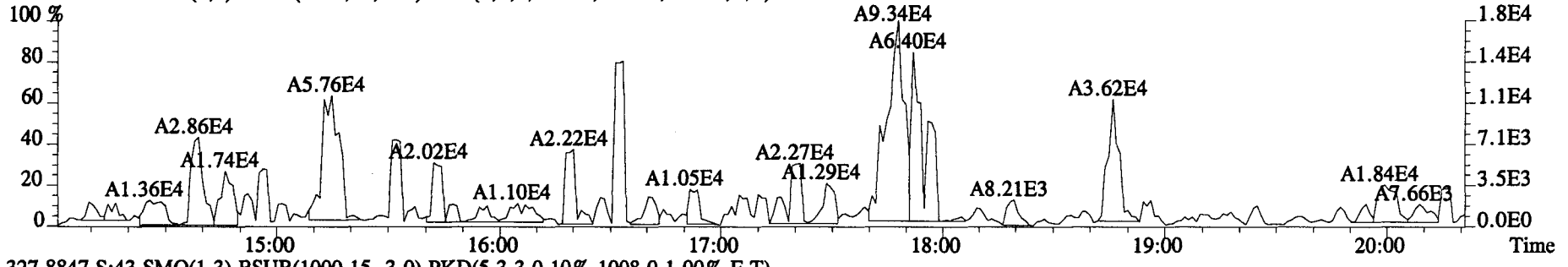
331.9368 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5828.0,1.00%,F,T)



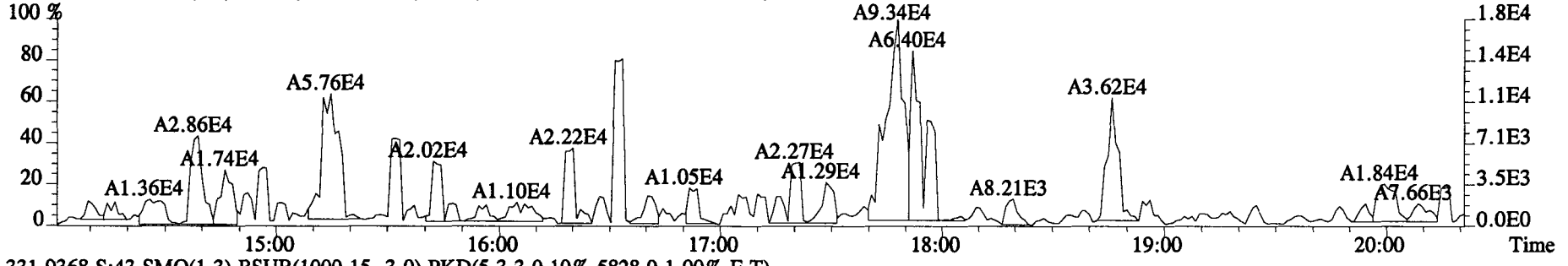
333.9339 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1780.0,1.00%,F,T)



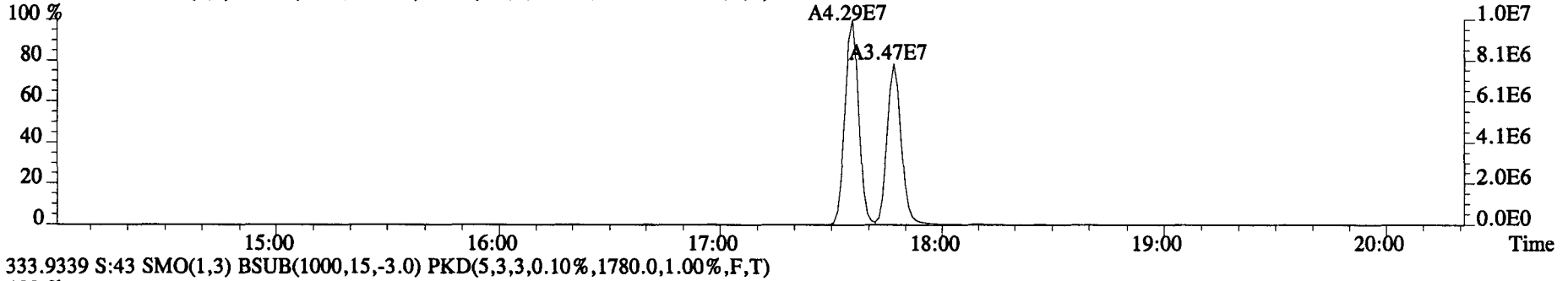
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
327.8847 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)



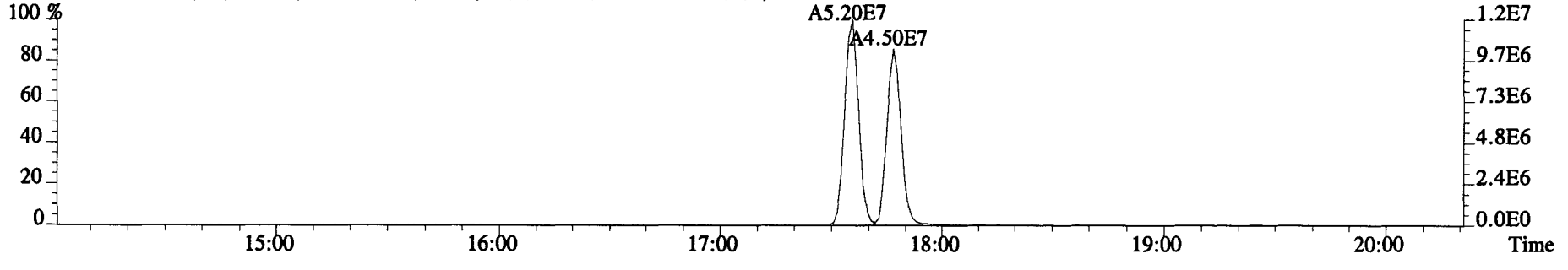
327.8847 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)



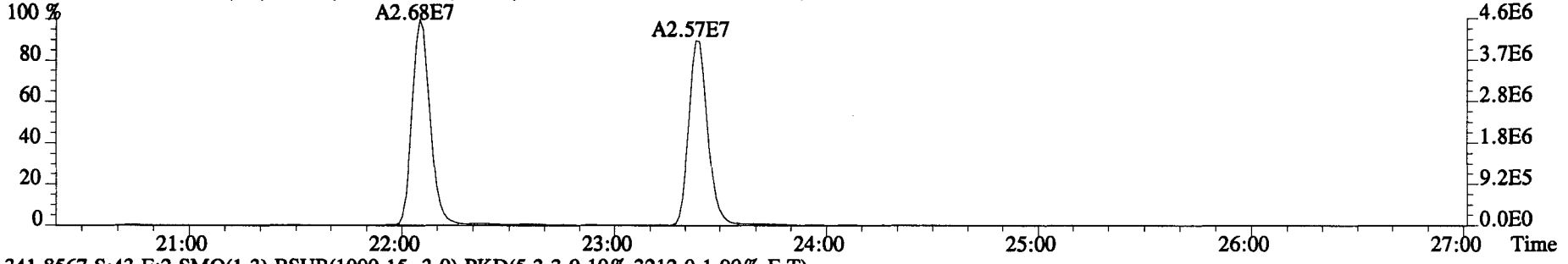
331.9368 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5828.0,1.00%,F,T)



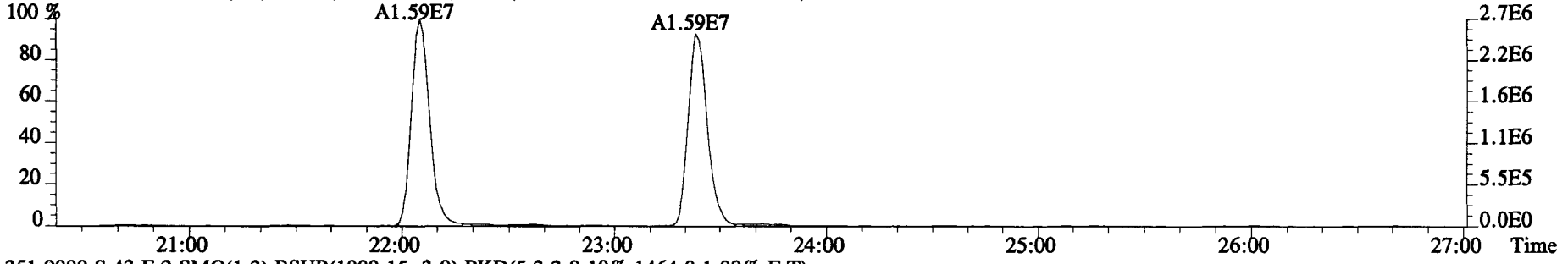
333.9339 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1780.0,1.00%,F,T)



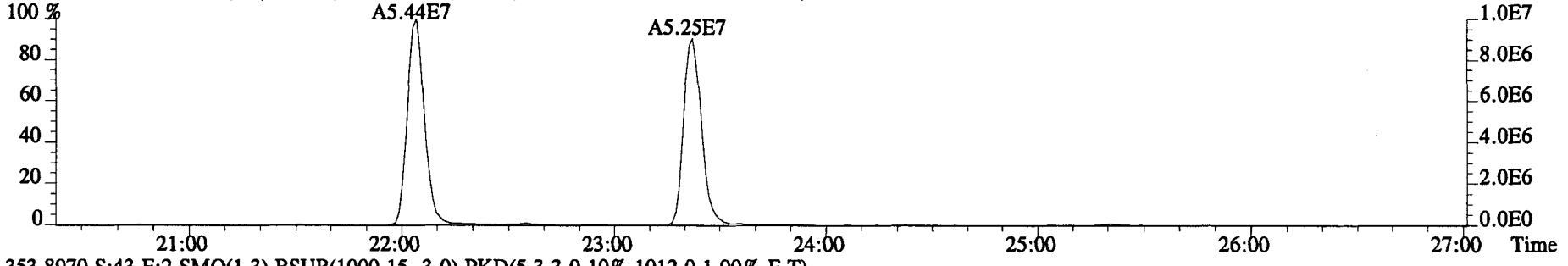
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
339.8597 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1476.0,1.00%,F,T)



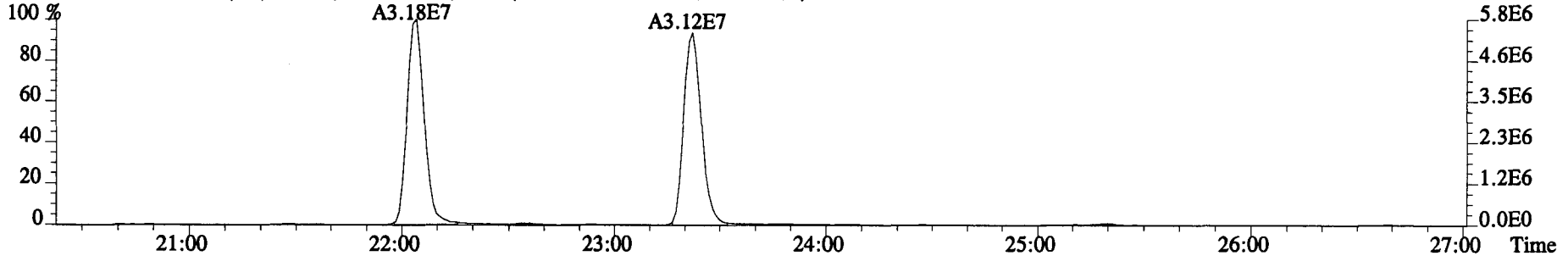
341.8567 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3212.0,1.00%,F,T)



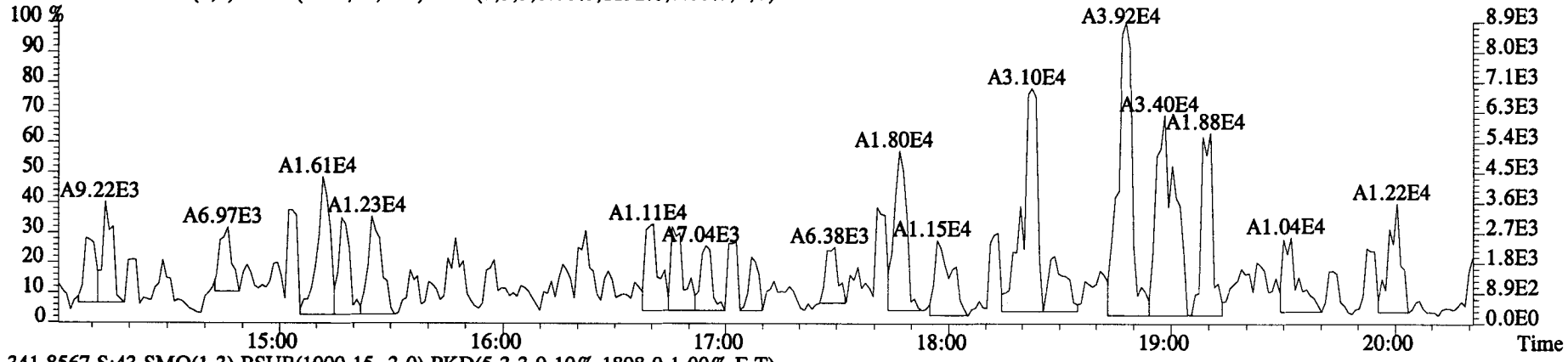
351.9000 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1464.0,1.00%,F,T)



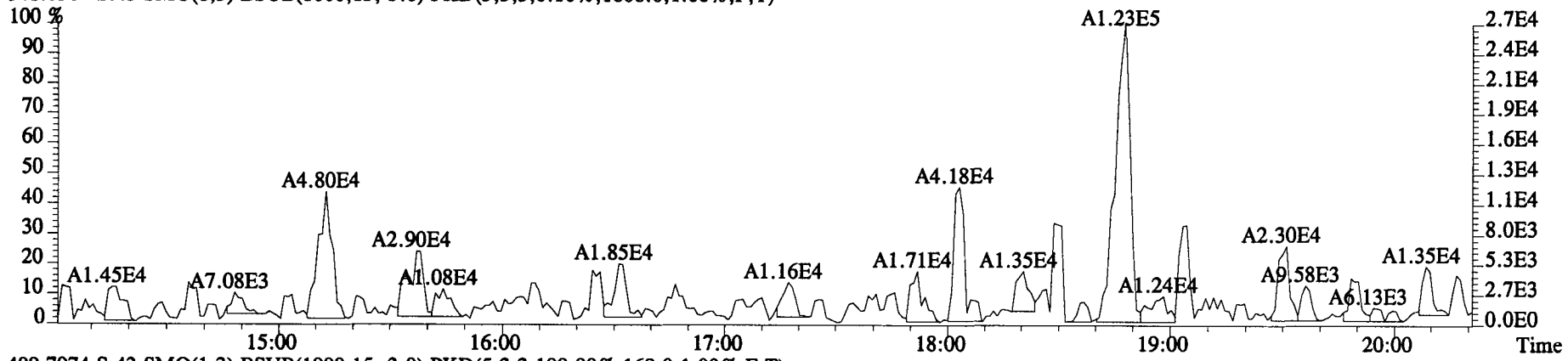
353.8970 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)



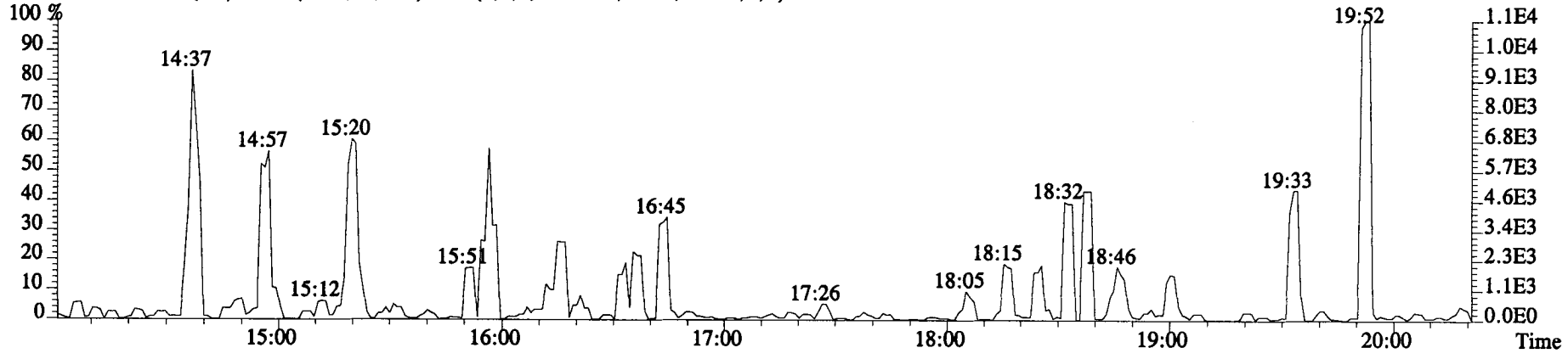
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
339.8597 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,F,T)



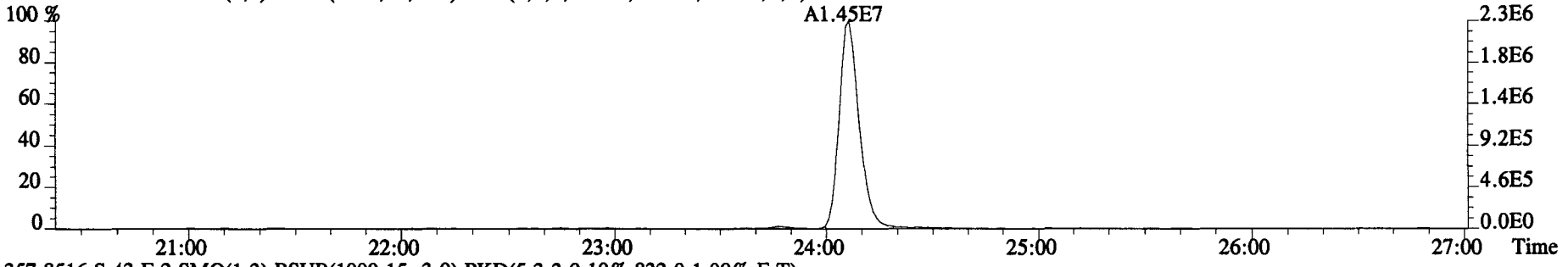
341.8567 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1808.0,1.00%,F,T)



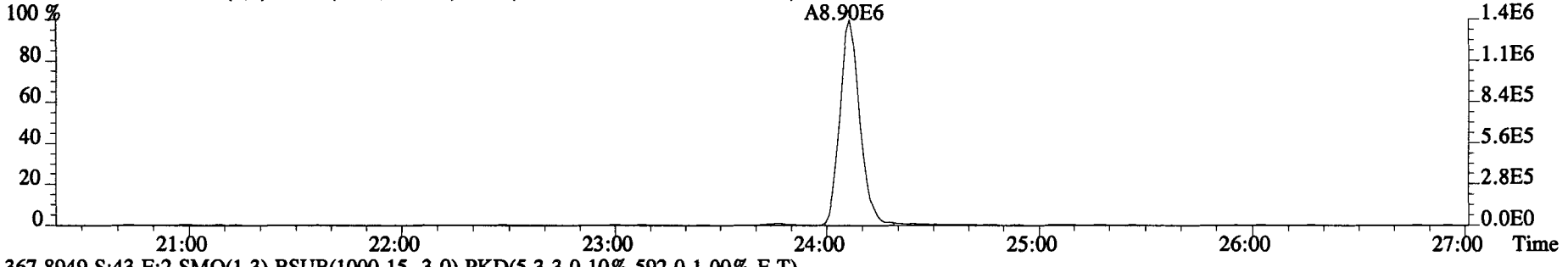
409.7974 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)



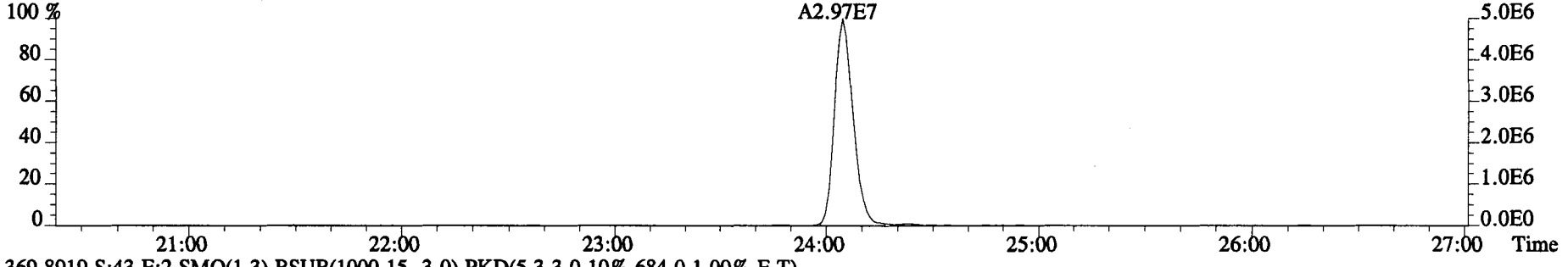
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
355.8546 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2792.0,1.00%,F,T)



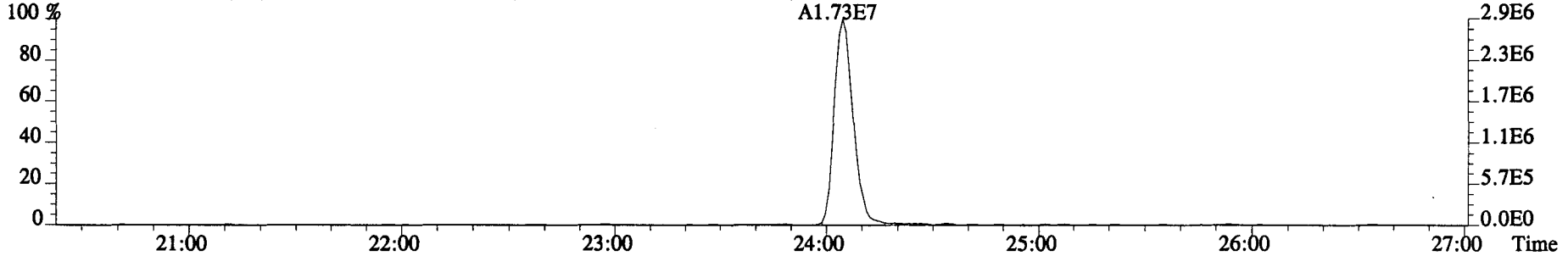
357.8516 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T)



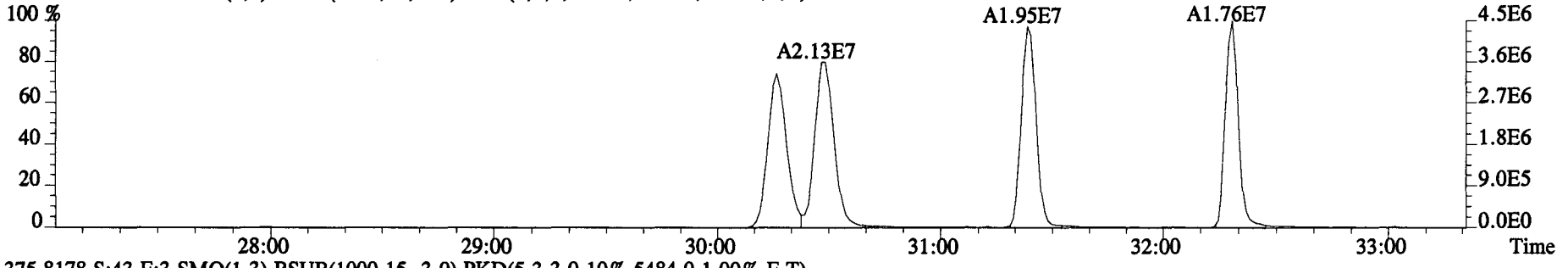
367.8949 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



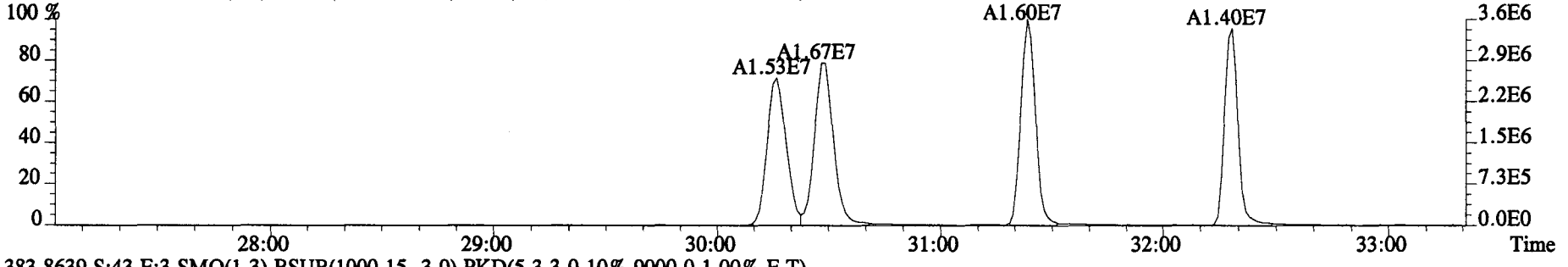
369.8919 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,684.0,1.00%,F,T)



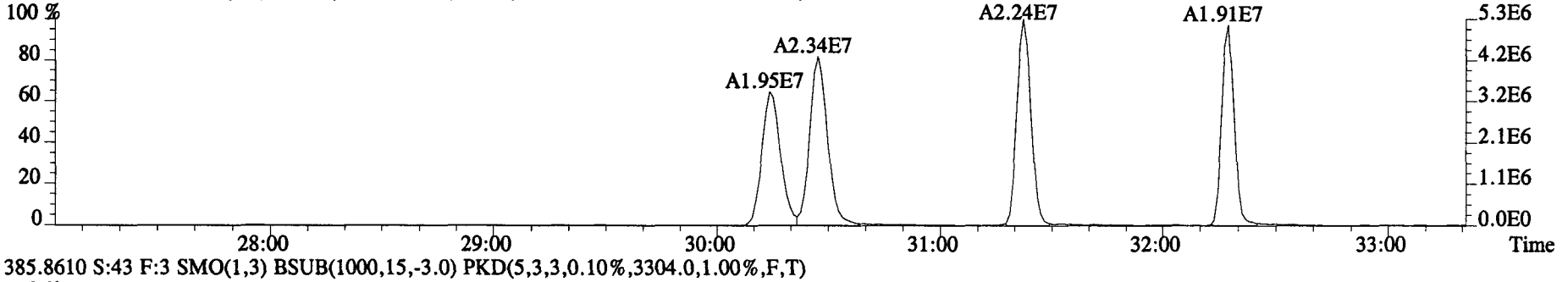
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
373.8208 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3304.0,1.00%,F,T)



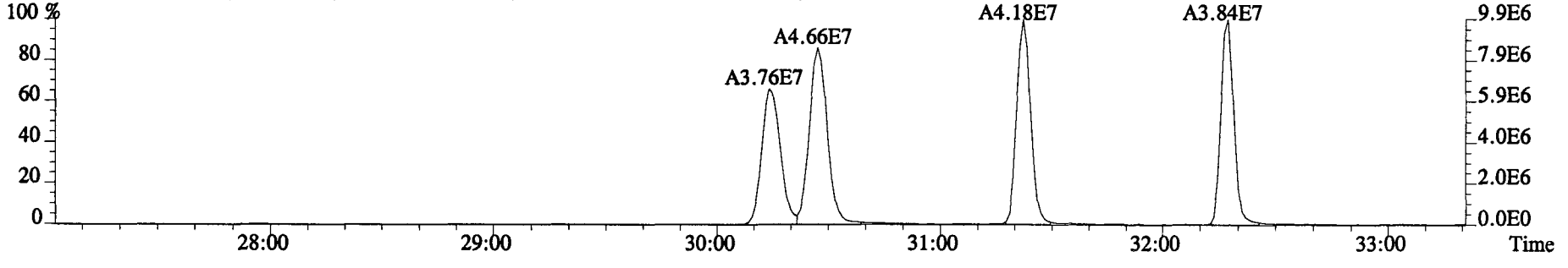
375.8178 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5484.0,1.00%,F,T)



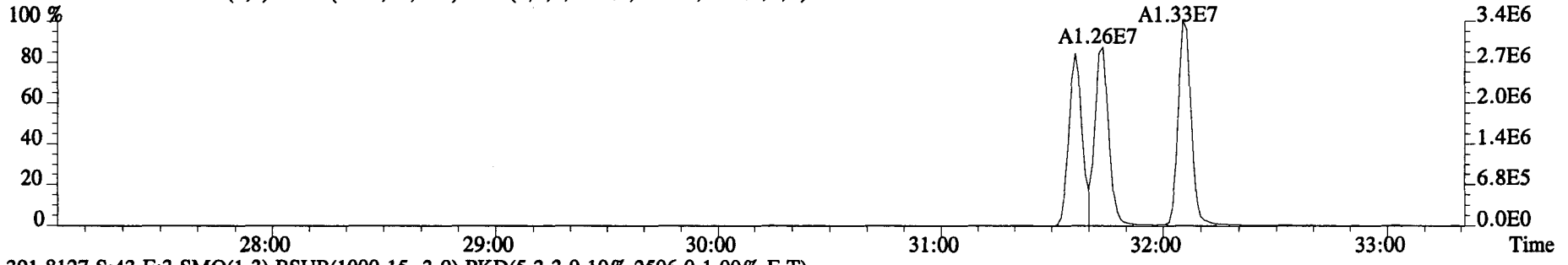
383.8639 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9000.0,1.00%,F,T)



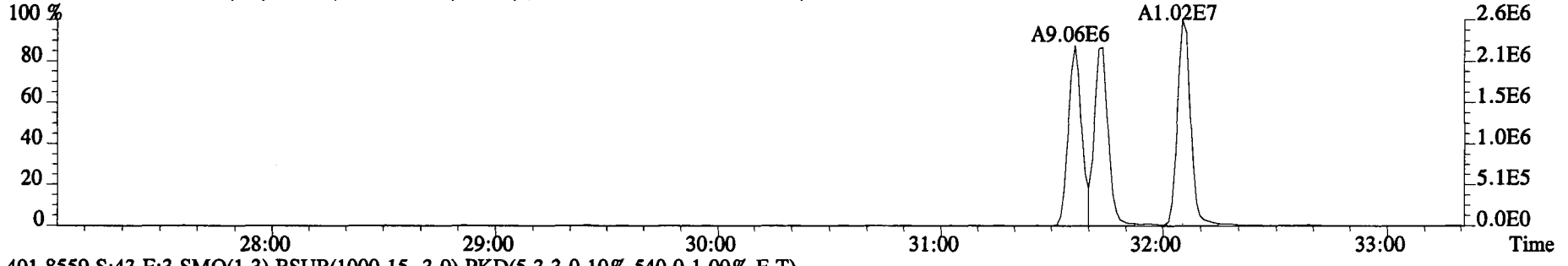
385.8610 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3304.0,1.00%,F,T)



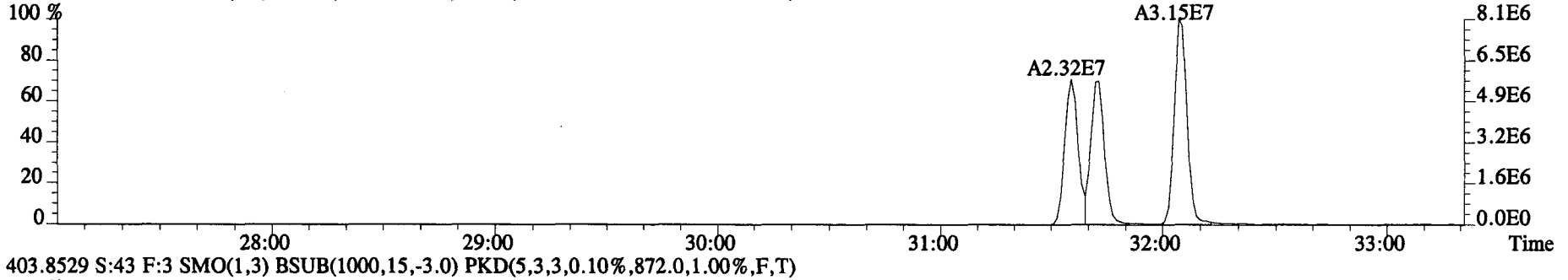
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
389.8157 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)



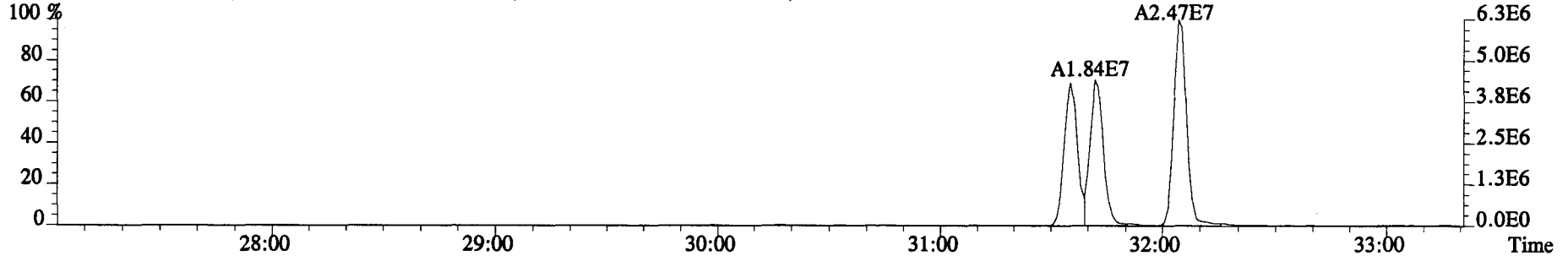
391.8127 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



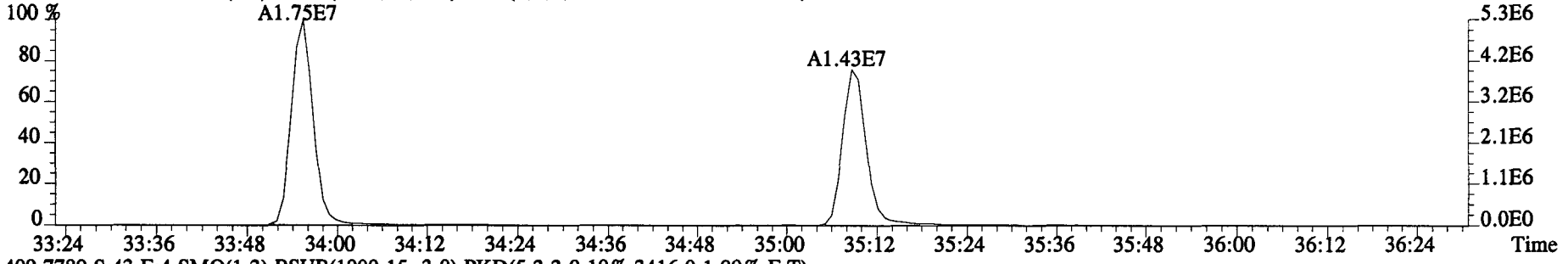
401.8559 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,540.0,1.00%,F,T)



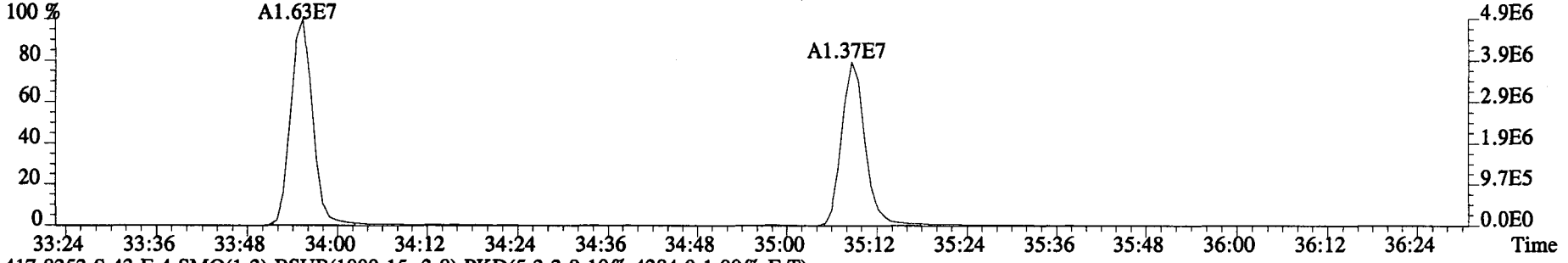
403.8529 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,872.0,1.00%,F,T)



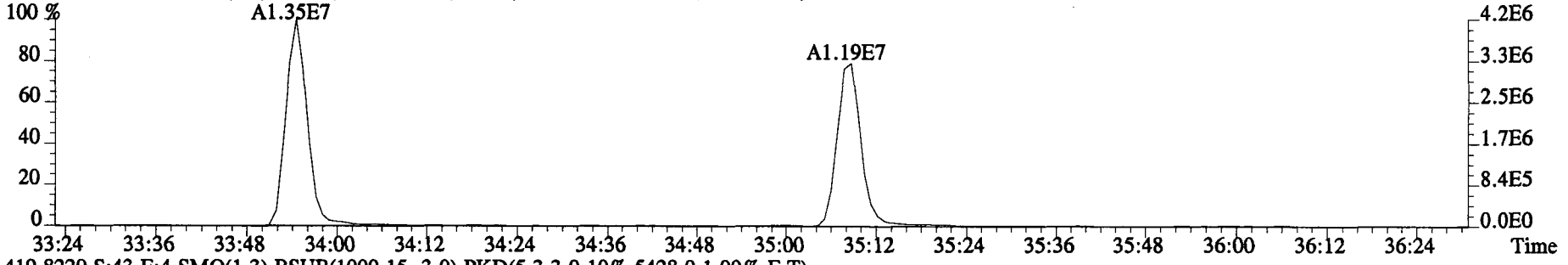
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
407.7818 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4736.0,1.00%,F,T)



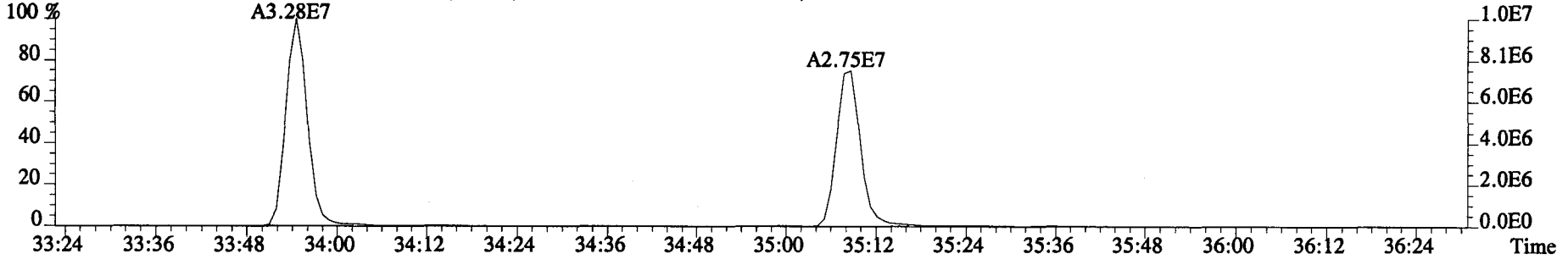
409.7789 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3416.0,1.00%,F,T)



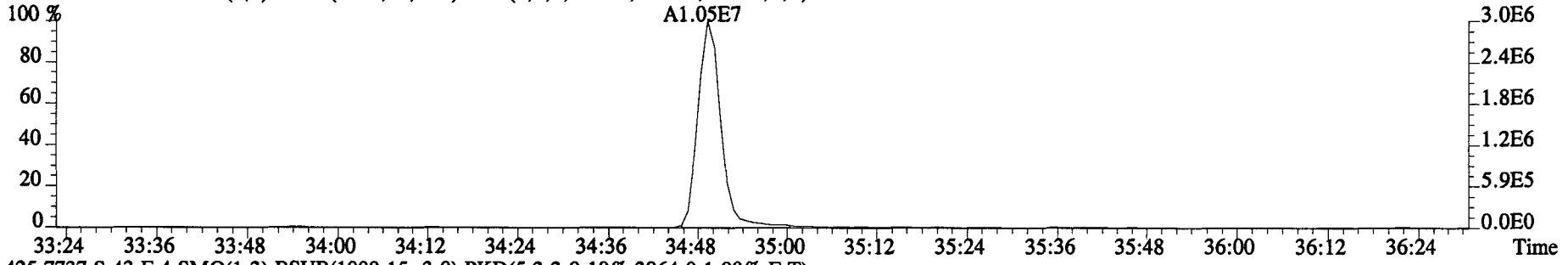
417.8253 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4284.0,1.00%,F,T)



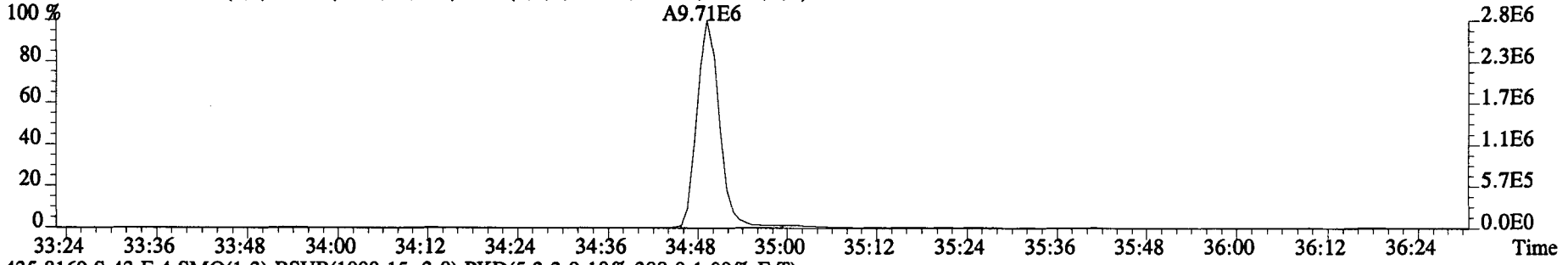
419.8220 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5428.0,1.00%,F,T)



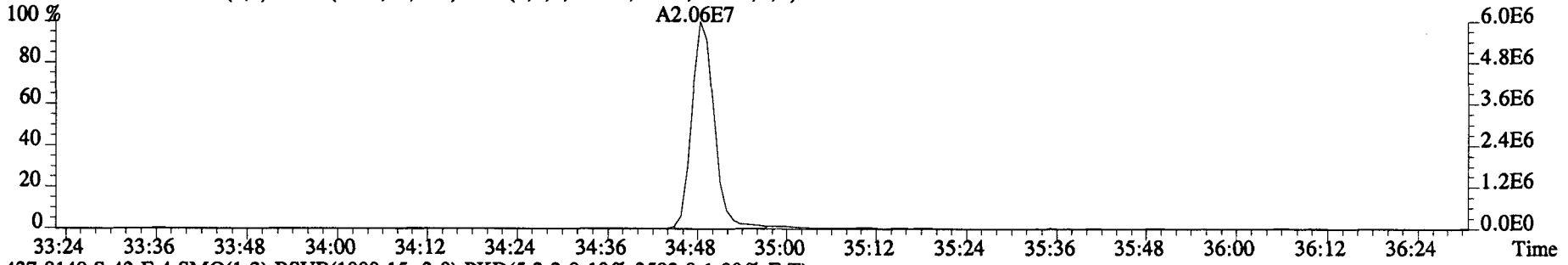
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
423.7766 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3124.0,1.00%,F,T)



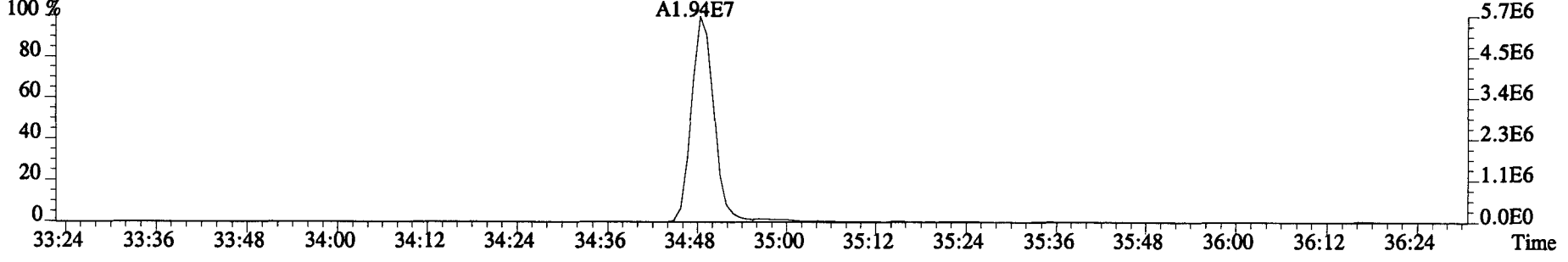
425.7737 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3964.0,1.00%,F,T)



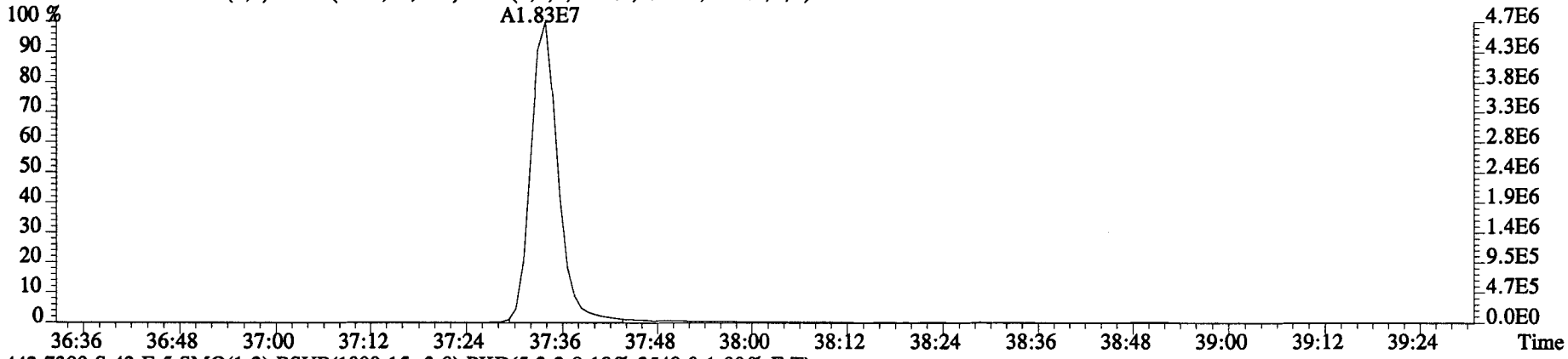
435.8169 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,388.0,1.00%,F,T)



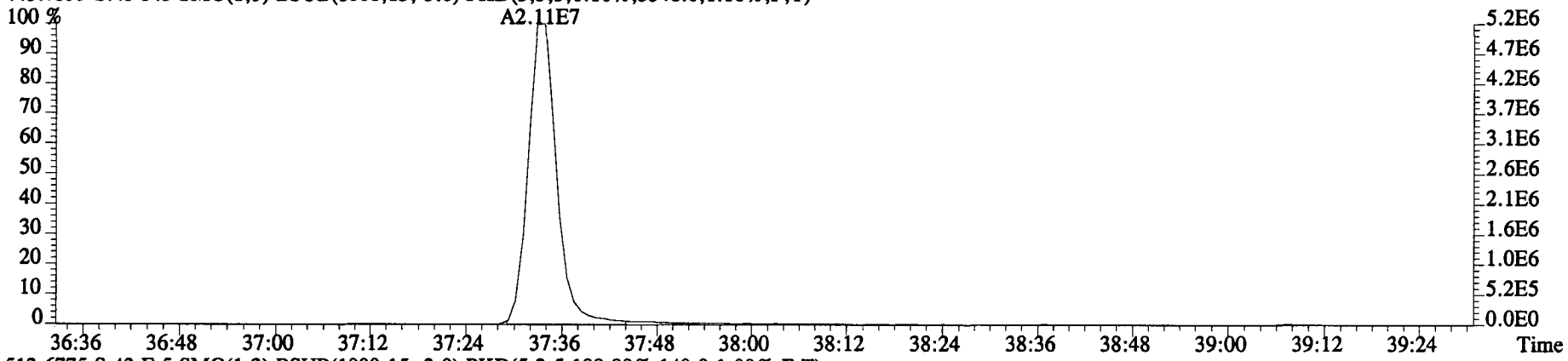
437.8140 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2592.0,1.00%,F,T)



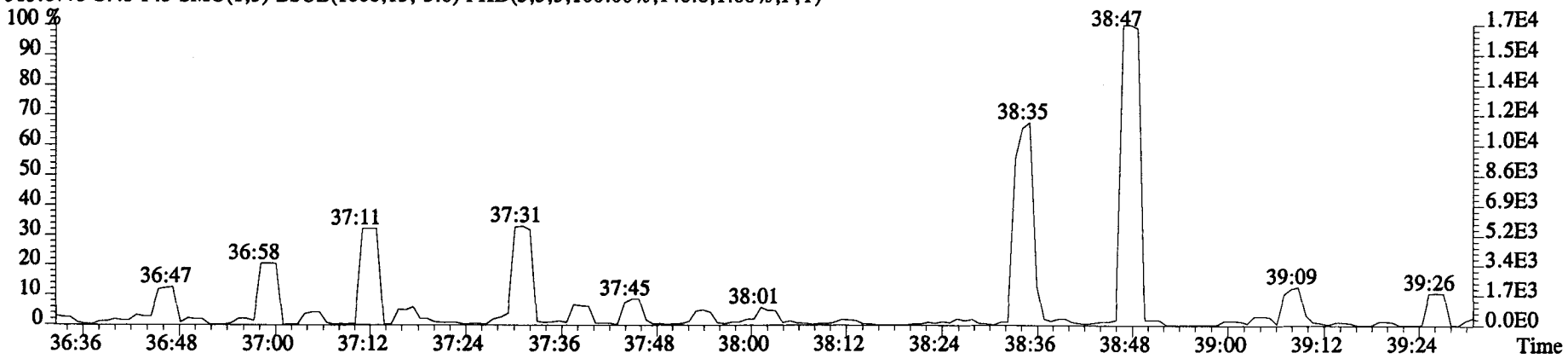
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
441.7428 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3560.0,1.00%,F,T)



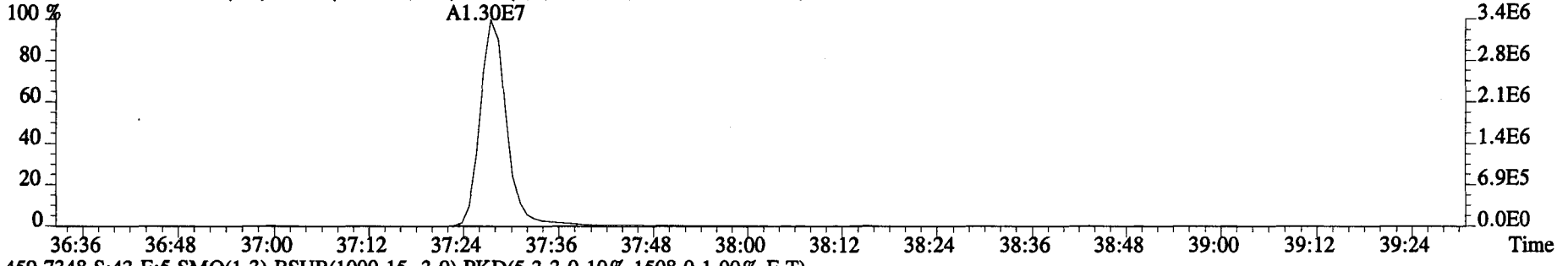
443.7399 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3548.0,1.00%,F,T)



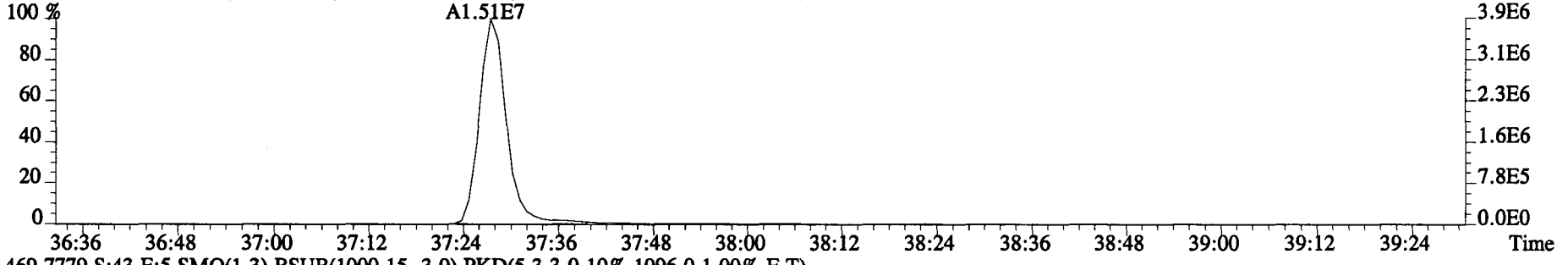
513.6775 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,140.0,1.00%,F,T)



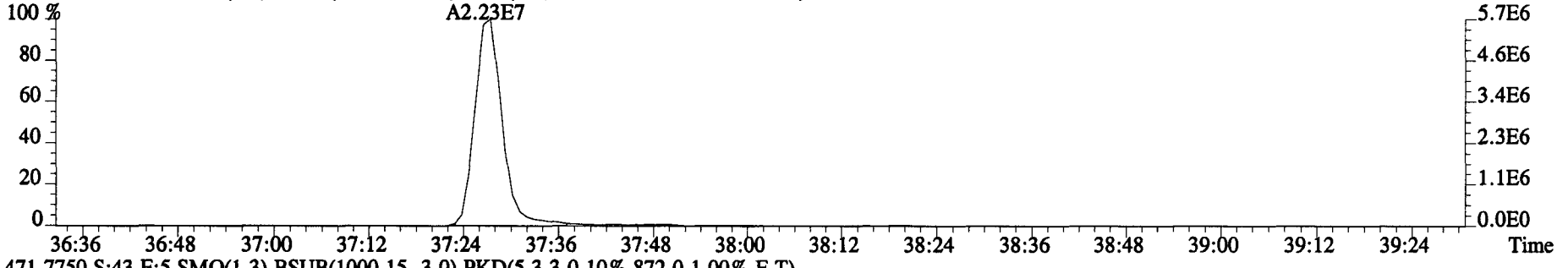
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
457.7377 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1764.0,1.00%,F,T)



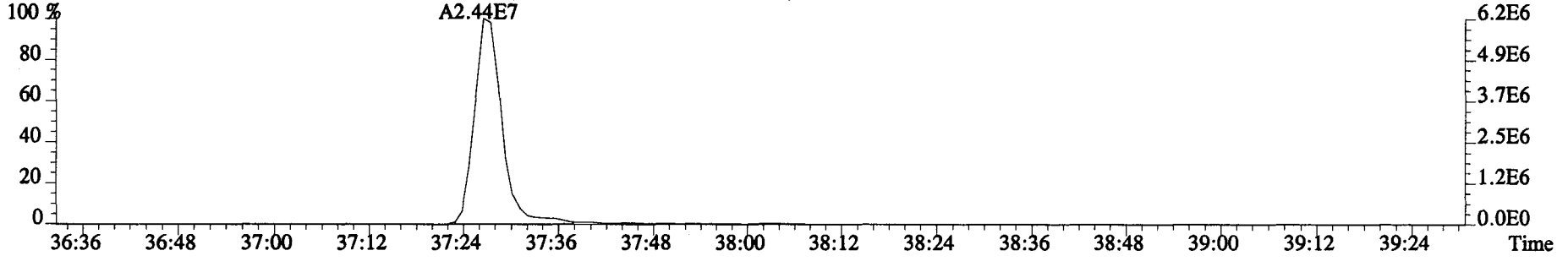
459.7348 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508.0,1.00%,F,T)



469.7779 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)

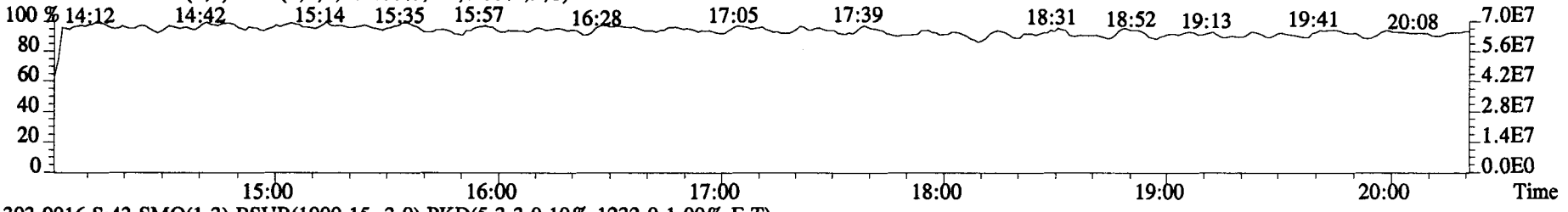


471.7750 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,872.0,1.00%,F,T)

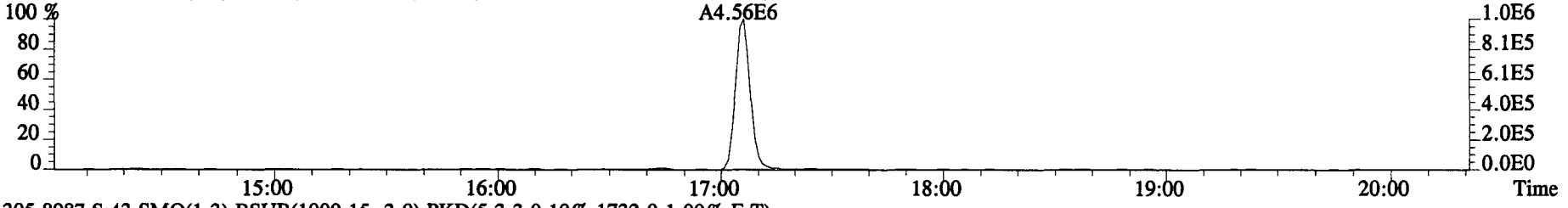


File:16AU10B1D5 #1-373 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES

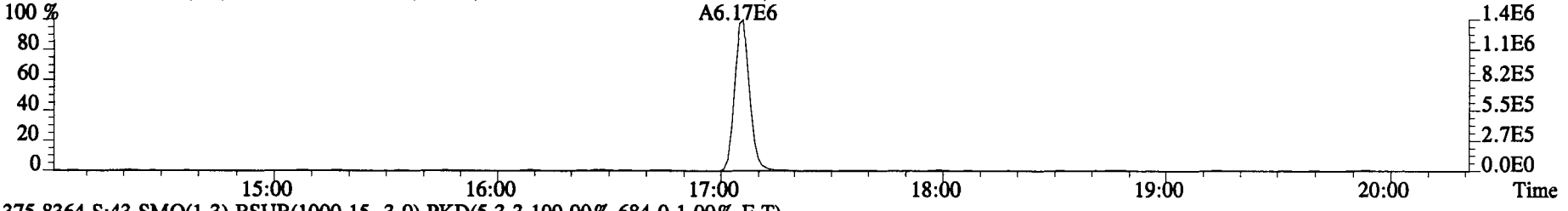
292.9825 S:43 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



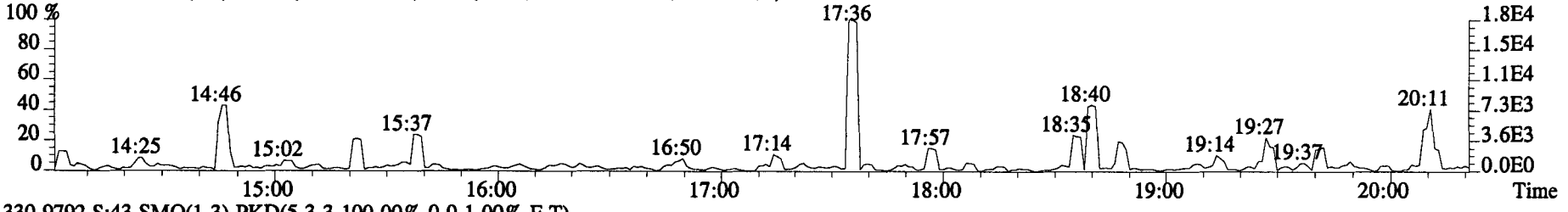
303.9016 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1232.0,1.00%,F,T)



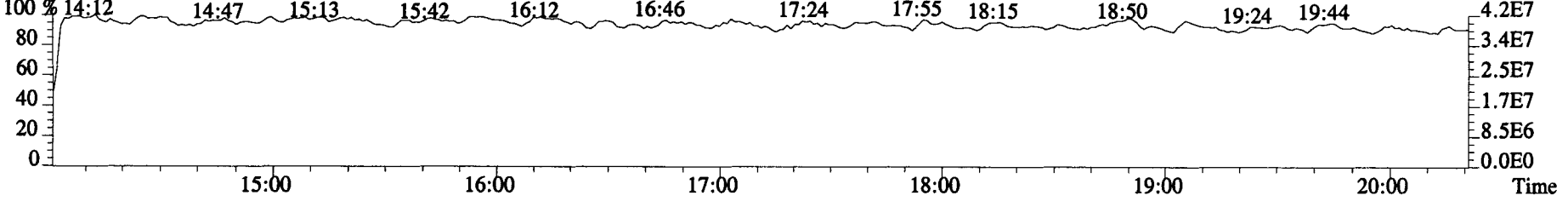
305.8987 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1732.0,1.00%,F,T)



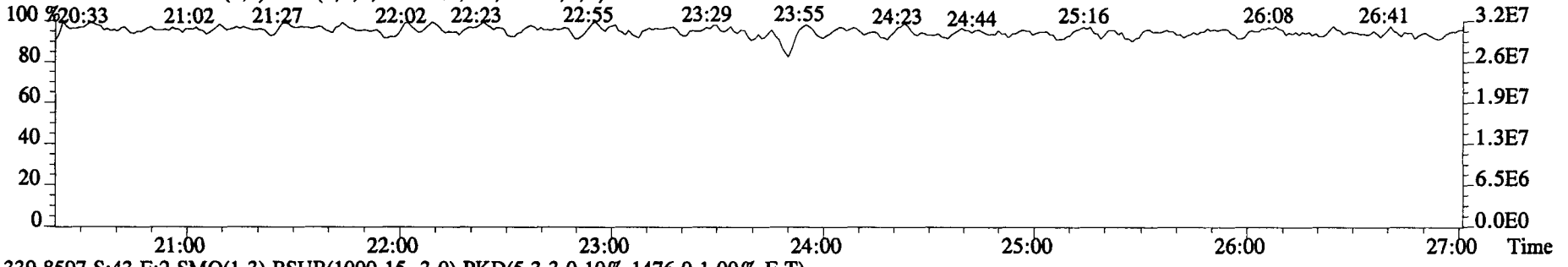
375.8364 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,684.0,1.00%,F,T)



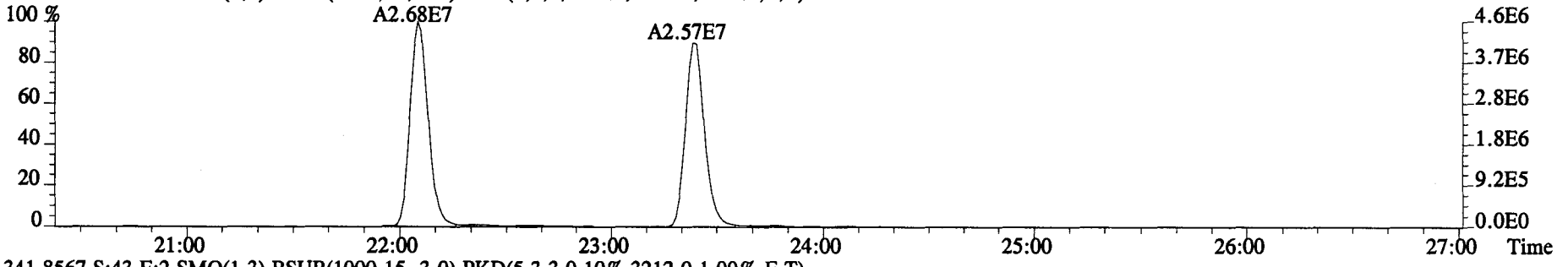
330.9792 S:43 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



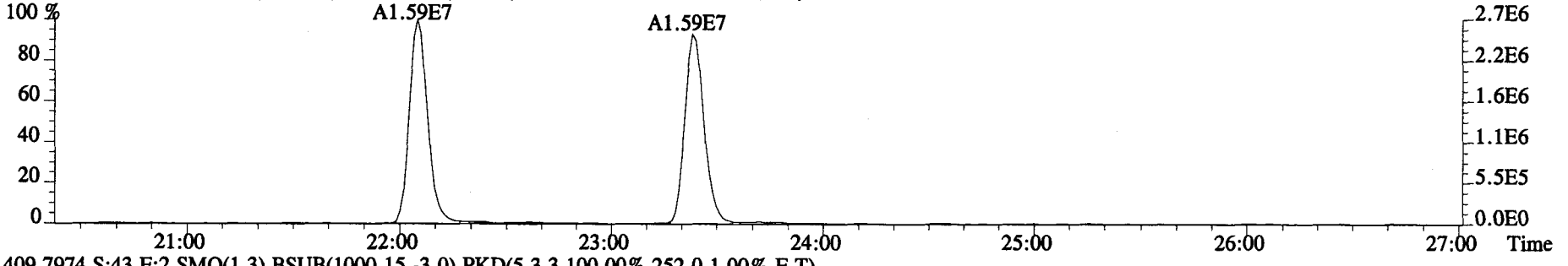
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
342.9792 S:43 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



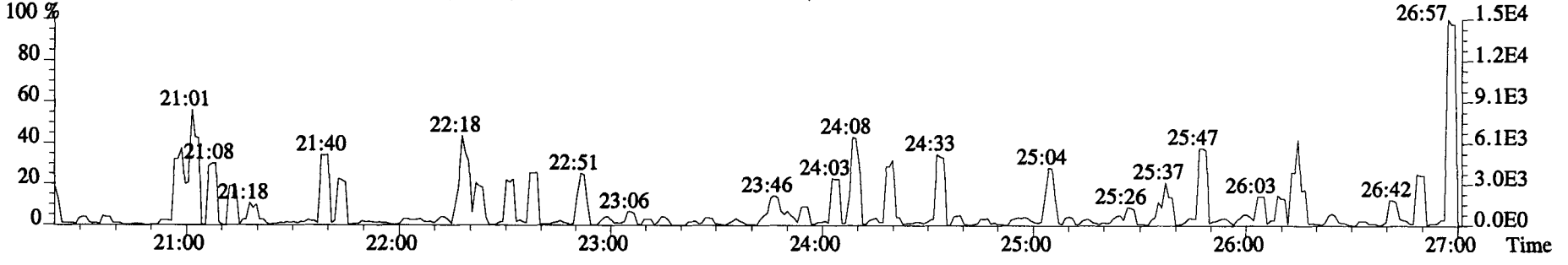
339.8597 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1476.0,1.00%,F,T)



341.8567 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3212.0,1.00%,F,T)

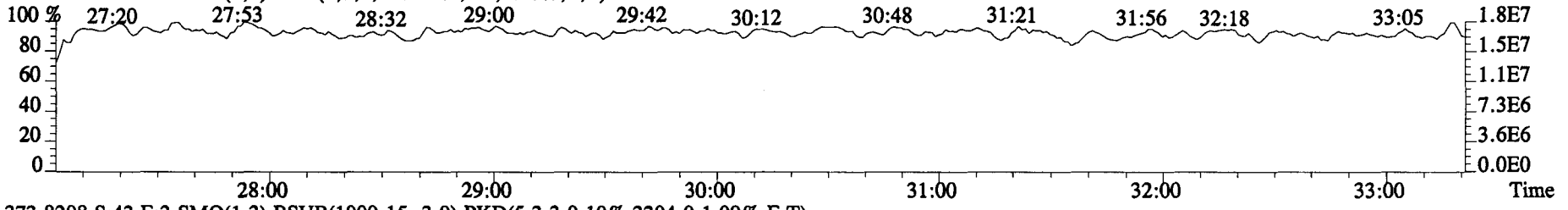


409.7974 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,252.0,1.00%,F,T)

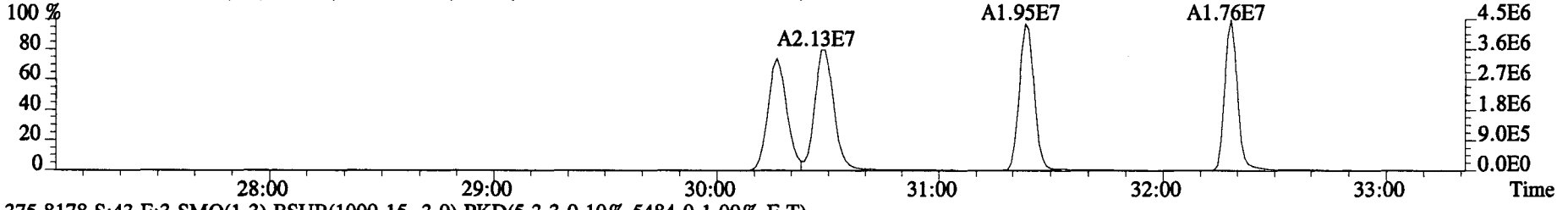


File:16AU10B1D5 #1-406 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES

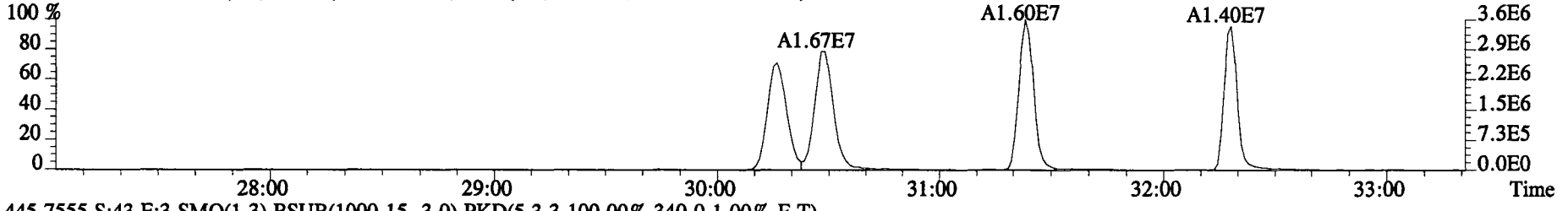
392.9760 S:43 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



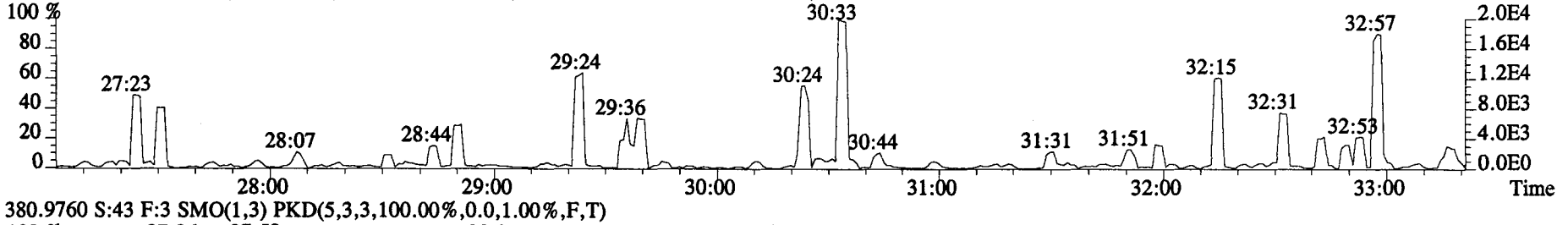
373.8208 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3304.0,1.00%,F,T)



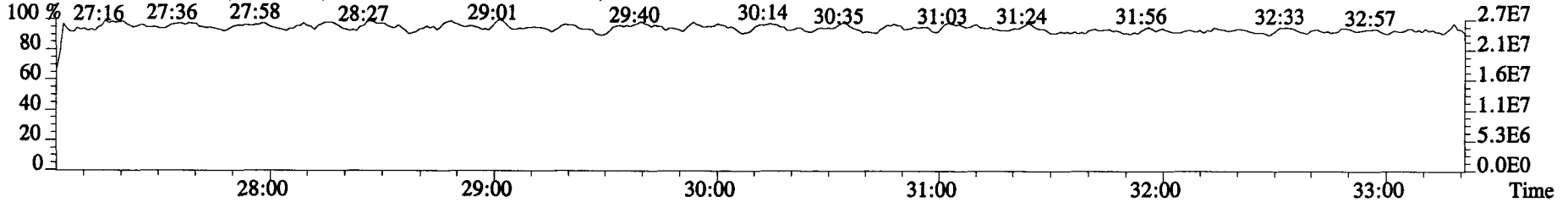
375.8178 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5484.0,1.00%,F,T)



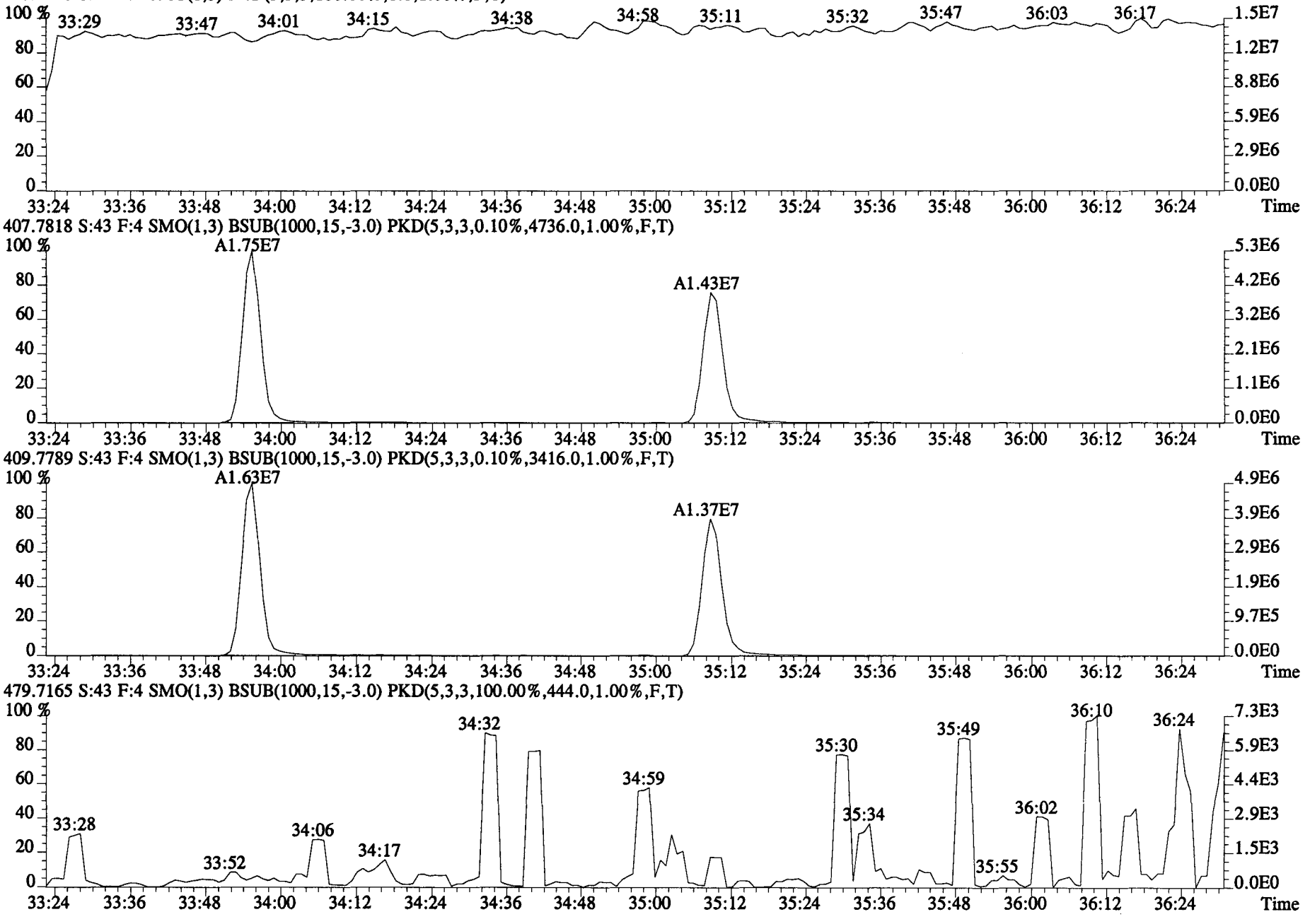
445.7555 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,340.0,1.00%,F,T)



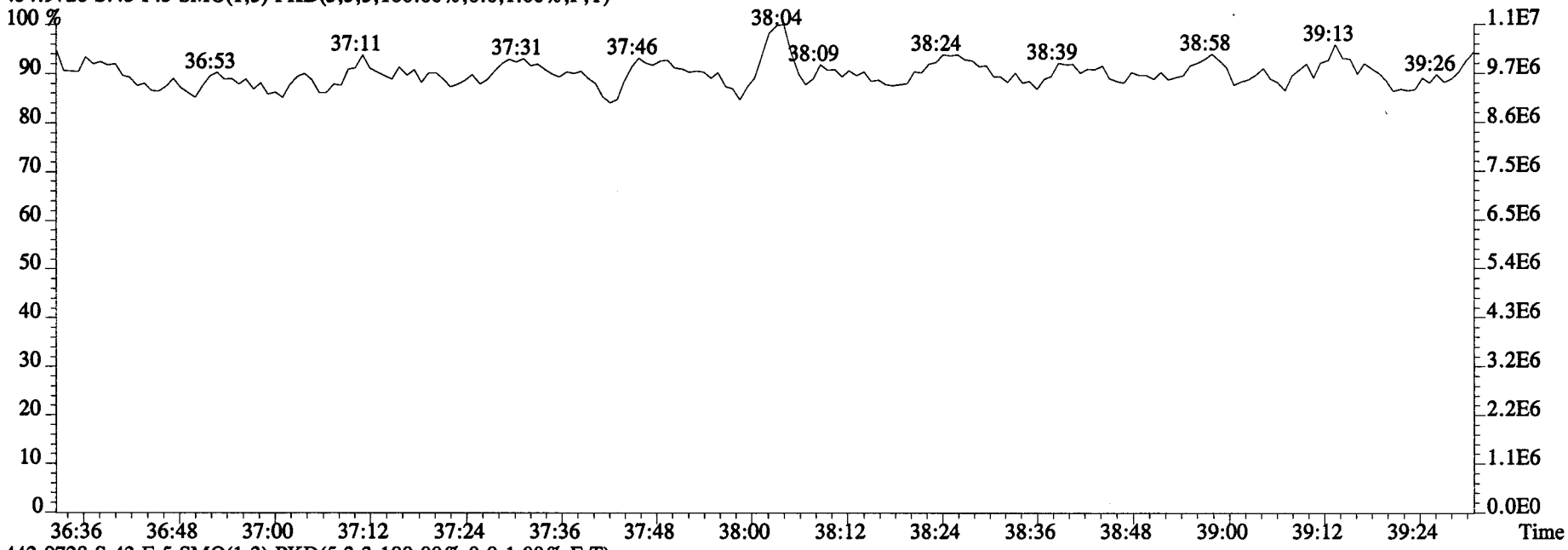
380.9760 S:43 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



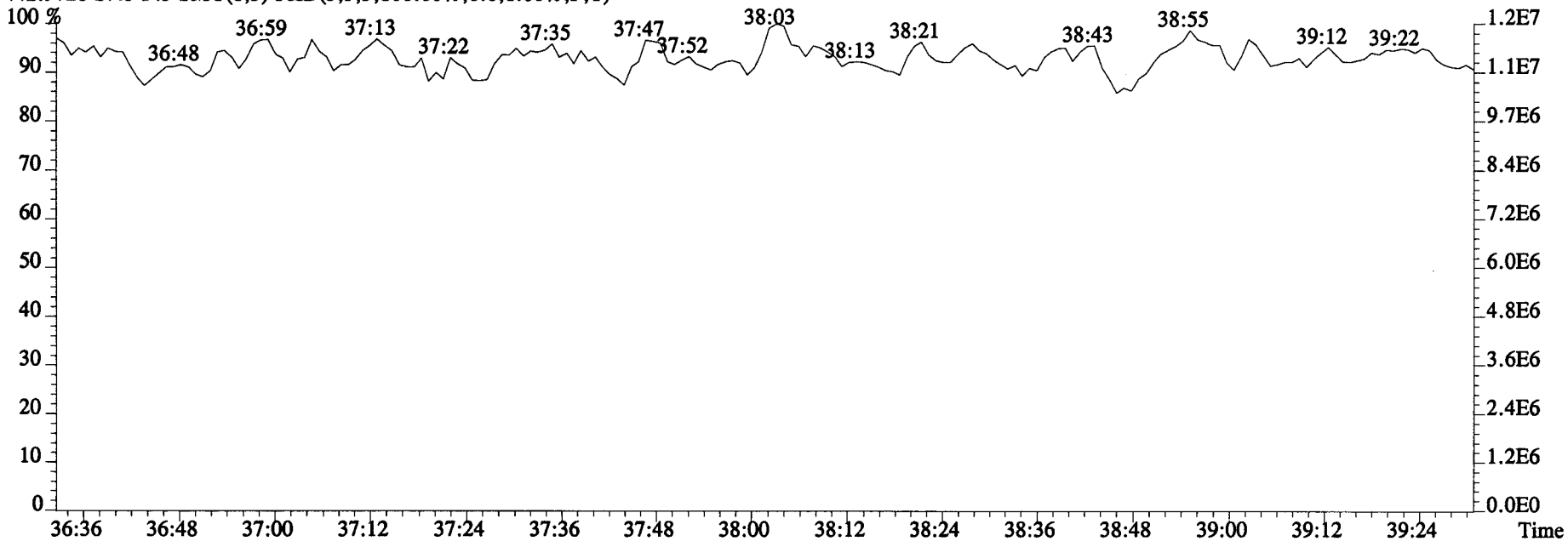
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES



File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:58:21 GC EI+ Voltage SIR 70SE
Sample#43 Text:L5LC4-1-ACC :G0H140454-1LCS Exp:DIOXINRES
454.9728 S:43 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:43 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

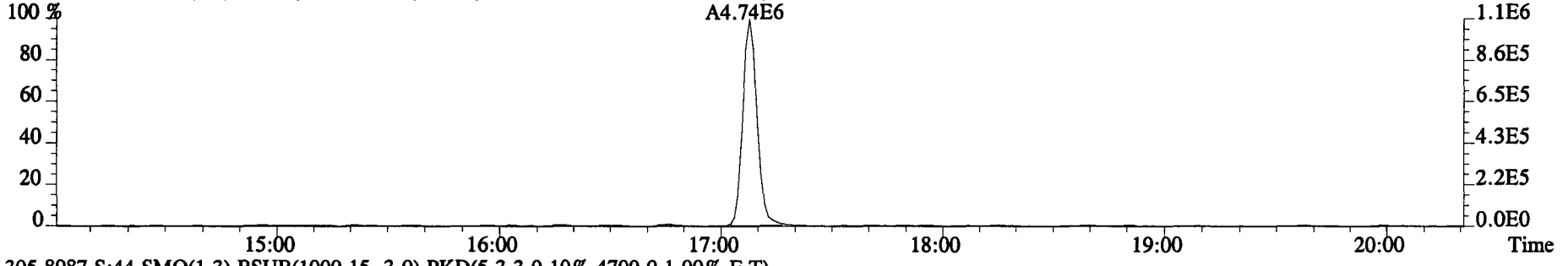


Run text: L5LC4-1-ADL Sample text: L5LC4-1-ADL :G0H140454-1DCS
Run #10 Filename: 16AU10B1D5 S: 44 I: 1 Results: 16AU10B1D5TO9
Acquired: 17-AUG-10 23:42:21 Processed: 18-AUG-10 10:46:48
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

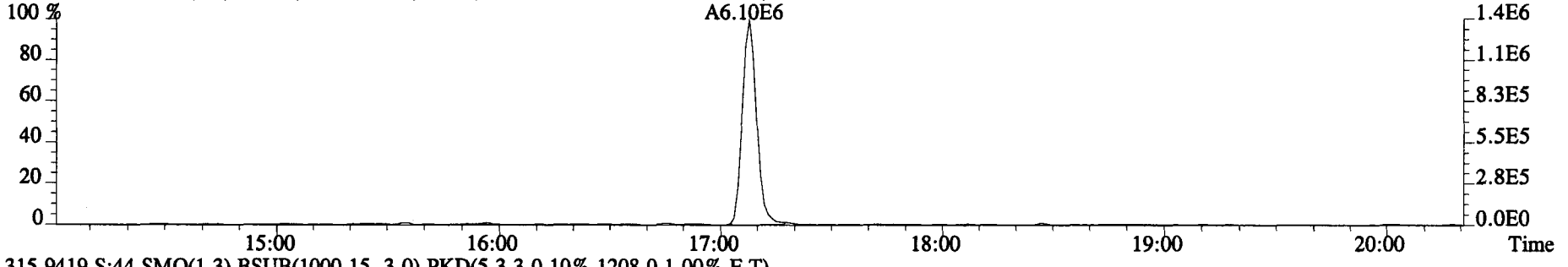
05 08-20-10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	101970700	0.81	y	17:37	-	54.18	-	-	n
13C-2,3,7,8-TCDF	133194500	0.78	y	17:07	1.56	3345.62	0.74	83.6	n
2,3,7,8-TCDF	10839790	0.78	y	17:08	0.87	372.04	2.68	-	n
Total TCDF	10852702	0.78	y	17:08	0.87	372.48	2.68	-	n
13C-2,3,7,8-TCDD	77001100	0.78	y	17:49	0.94	3229.36	4.36	80.7	n
2,3,7,8-TCDD	7076850	0.79	y	17:51	0.96	384.02	2.97	-	n
Total TCDD	7180103	0.82	y	15:40	0.96	389.63	2.97	-	n
37Cl-2,3,7,8-TCDD	107024	1.00	y	17:50	1.22	4.57	1.07	0.1	n
13C-1,2,3,7,8-PeCDF	83589400	1.74	y	22:06	1.06	3087.69	2.07	77.2	n
1,2,3,7,8-PeCDF	44085400	1.61	y	22:08	1.08	1953.51	4.06	-	n
2,3,4,7,8-PeCDF	41190700	1.64	y	23:26	0.98	2010.79	4.47	-	n
Total F2 PeCDF	85789357	2.22	n	20:43	1.03	3988.14	4.25	-	n
Total F1 PeCDF	233015	0.31	n	14:32	1.03	10.82	2.56	-	n
13C-1,2,3,7,8-PeCDD	45265200	1.69	y	24:06	0.65	2747.76	0.69	68.7	n
1,2,3,7,8-PeCDD	22734790	1.68	y	24:08	0.92	2172.41	7.73	-	n
Total PeCDD	23025302	2.28	n	23:49	0.92	2200.17	7.73	-	n
13C-1,2,3,7,8,9-HxCDD	62743100	1.32	y	32:05	-	44.14	-	-	n
13C-1,2,3,4,7,8-HxCDF	53876500	0.52	y	30:16	0.99	3483.27	7.50	87.1	n
1,2,3,4,7,8-HxCDF	36045900	1.24	y	30:18	1.15	2320.11	8.89	-	n
1,2,3,6,7,8-HxCDF	39811900	1.29	y	30:30	1.24	2378.23	8.25	-	n
2,3,4,6,7,8-HxCDF	36531300	1.31	y	31:24	1.22	2227.35	8.42	-	n
1,2,3,7,8,9-HxCDF	31586500	1.30	y	32:19	1.19	1978.95	8.65	-	n
Total HxCDF	144089512	1.24	y	30:18	1.20	8911.68	8.55	-	n
13C-1,2,3,6,7,8-HxCDD	40782700	1.29	y	31:44	0.77	3385.80	1.26	84.6	n
1,2,3,4,7,8-HxCDD	21408950	1.26	y	31:37	1.03	2040.93	6.04	-	n
1,2,3,6,7,8-HxCDD	22753100	1.32	y	31:44	1.11	2016.55	5.62	-	n
1,2,3,7,8,9-HxCDD	24405900	1.27	y	32:06	1.24	1926.76	5.01	-	n
Total HxCDD	68567950	1.26	y	31:37	1.13	5984.24	5.52	-	n
13C-1,2,3,4,6,7,8-HpCDF	45551700	0.40	y	33:55	0.98	2960.50	8.85	74.0	n
1,2,3,4,6,7,8-HpCDF	33896700	1.06	y	33:56	1.35	2205.41	6.67	-	n
1,2,3,4,7,8,9-HpCDF	28248800	1.05	y	35:09	1.19	2091.21	7.59	-	n
Total HpCDF	62145500	1.06	y	33:56	1.27	4296.62	7.10	-	n
13C-1,2,3,4,6,7,8-HpCDD	36601900	1.09	y	34:49	0.81	2896.16	3.68	72.4	n
1,2,3,4,6,7,8-HpCDD	19104990	1.08	y	34:50	1.03	2034.31	6.04	-	n
Total HpCDD	19564177	0.58	n	33:54	1.03	2083.20	6.04	-	n
13C-OCDD	43435900	0.93	y	37:27	0.62	4501.68	2.14	56.3	n
OCDF	39823200	0.87	y	37:34	1.44	5076.01	8.39	-	n
OCDD	27979600	0.87	y	37:28	1.09	4726.21	10.18	-	n

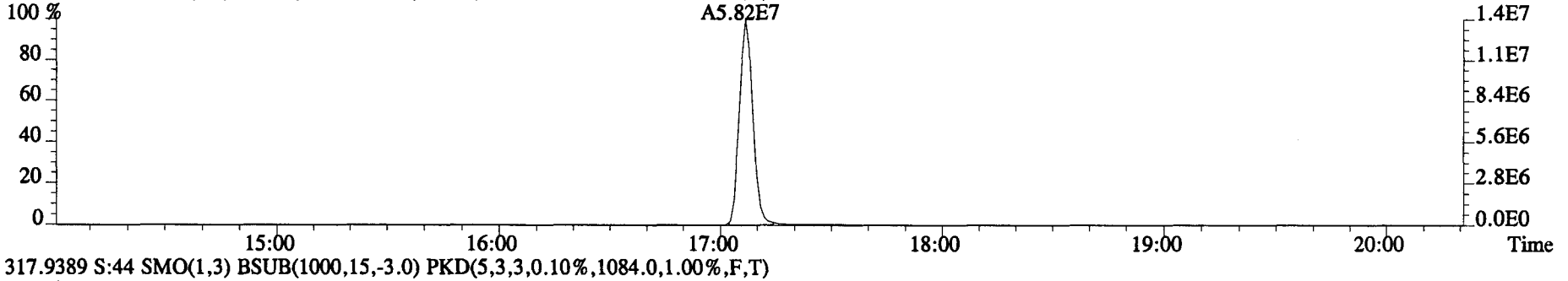
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
303.9016 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1516.0,1.00%,F,T)



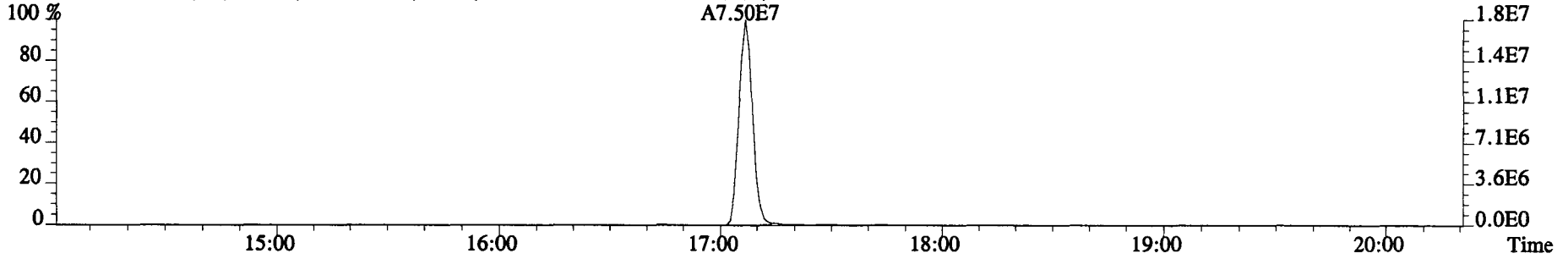
305.8987 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4700.0,1.00%,F,T)



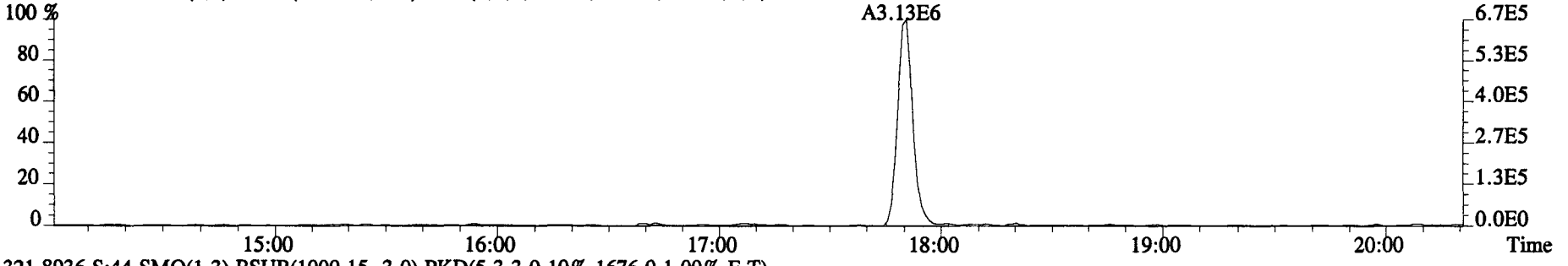
315.9419 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1208.0,1.00%,F,T)



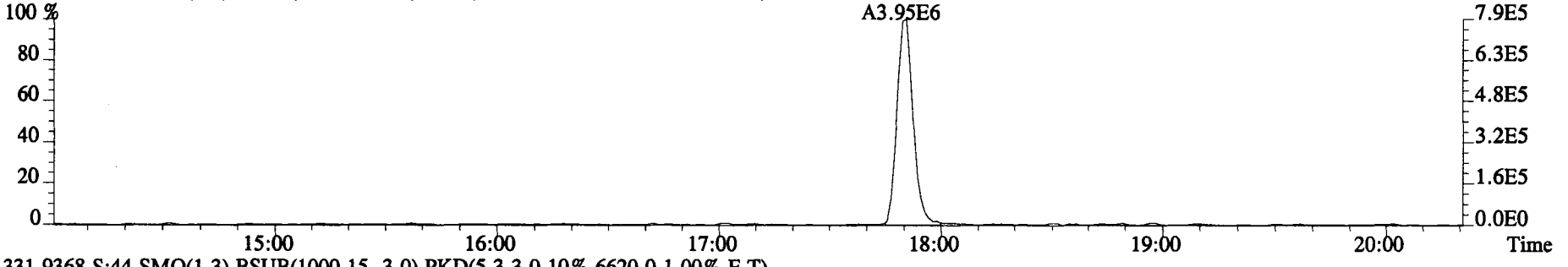
317.9389 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



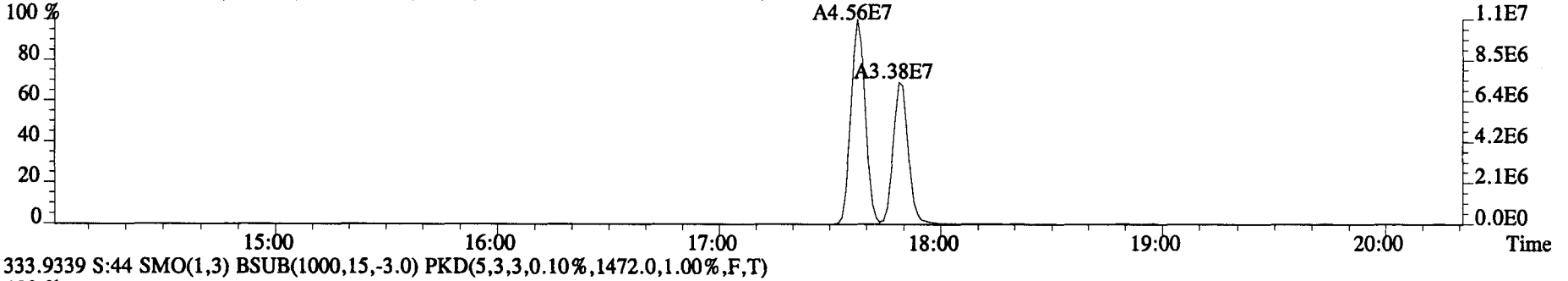
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
319.8965 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2352.0,1.00%,F,T)



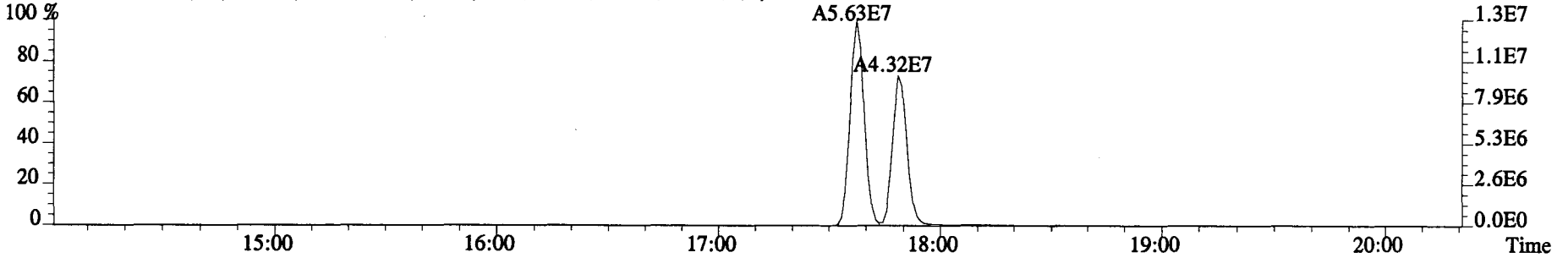
321.8936 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1676.0,1.00%,F,T)



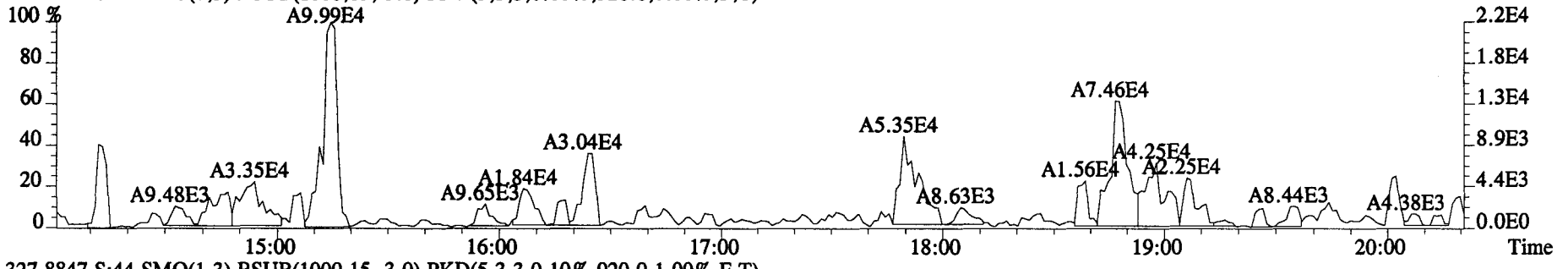
331.9368 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6620.0,1.00%,F,T)



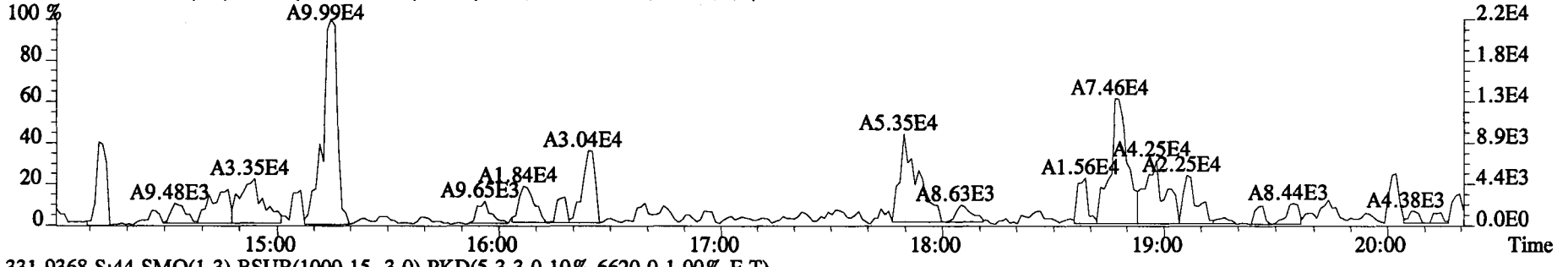
333.9339 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



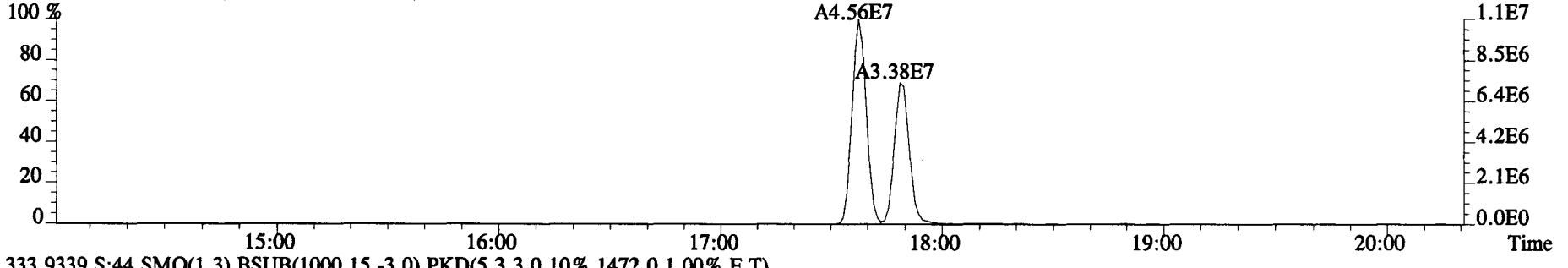
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
327.8847 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



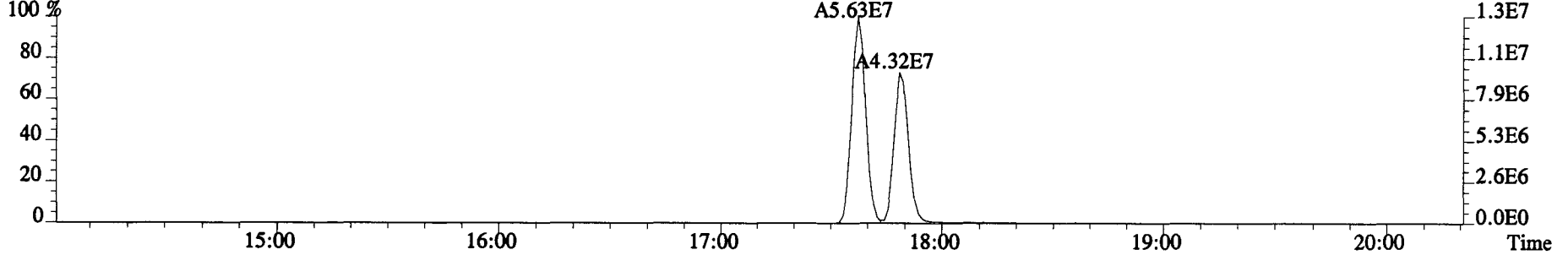
327.8847 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



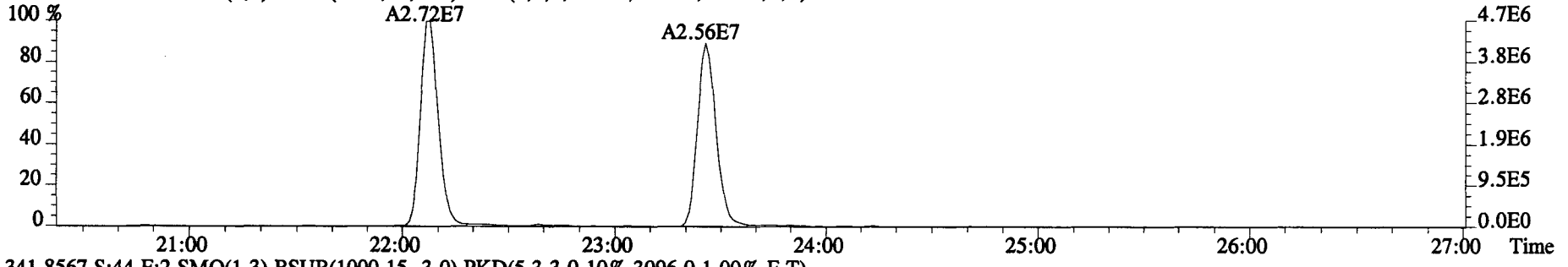
331.9368 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6620.0,1.00%,F,T)



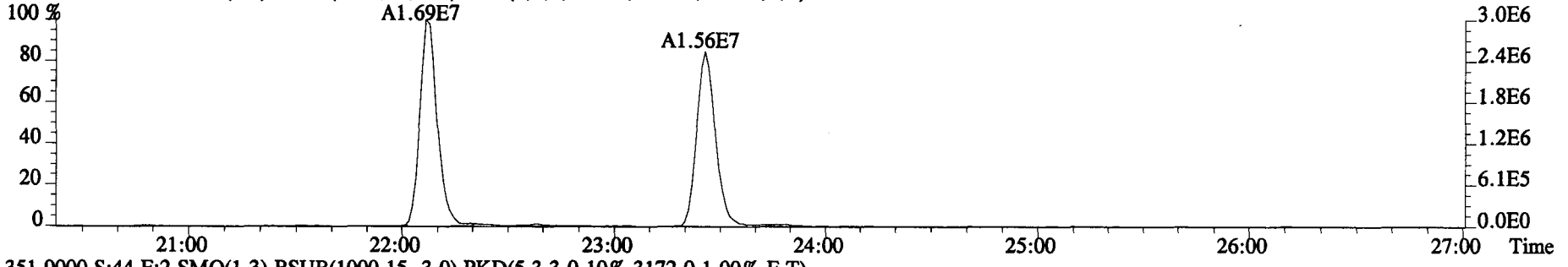
333.9339 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



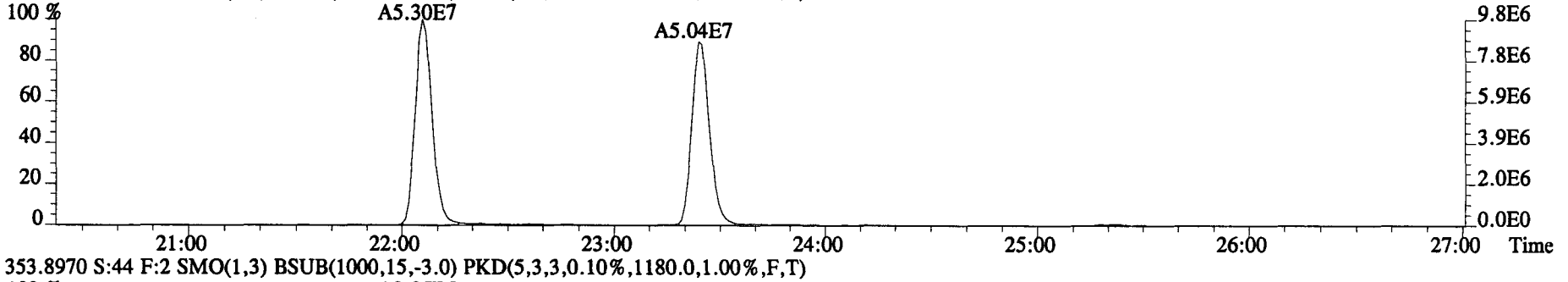
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
339.8597 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)



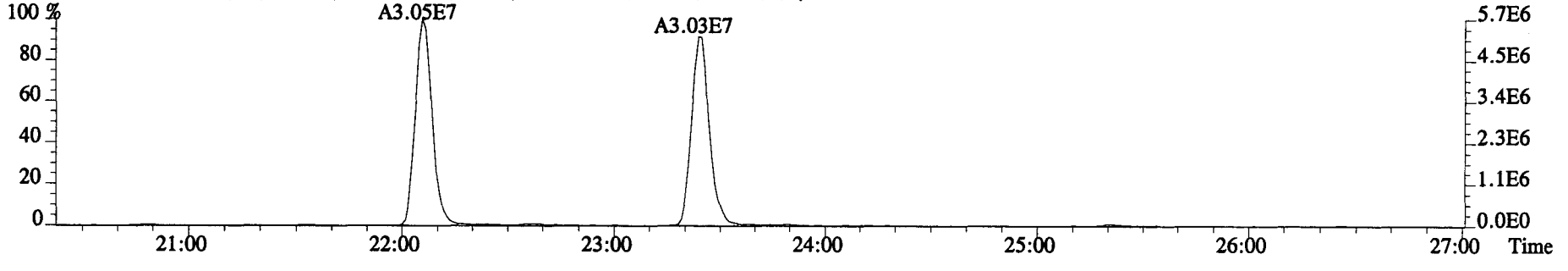
341.8567 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3096.0,1.00%,F,T)



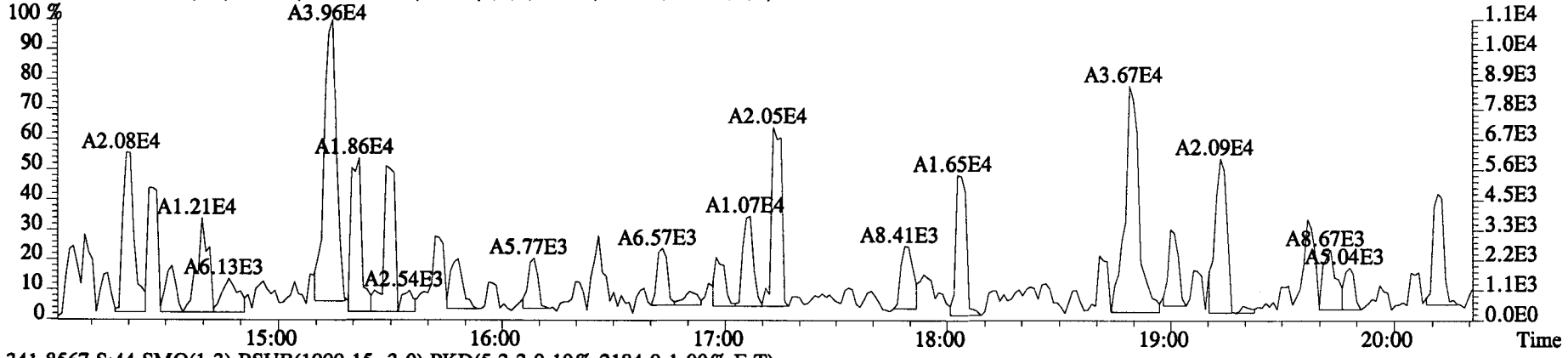
351.9000 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



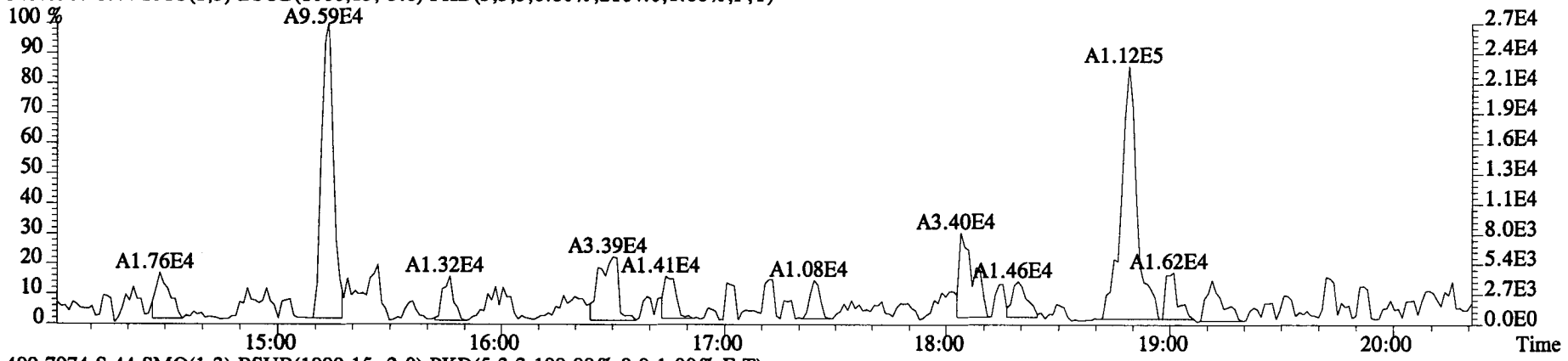
353.8970 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1180.0,1.00%,F,T)



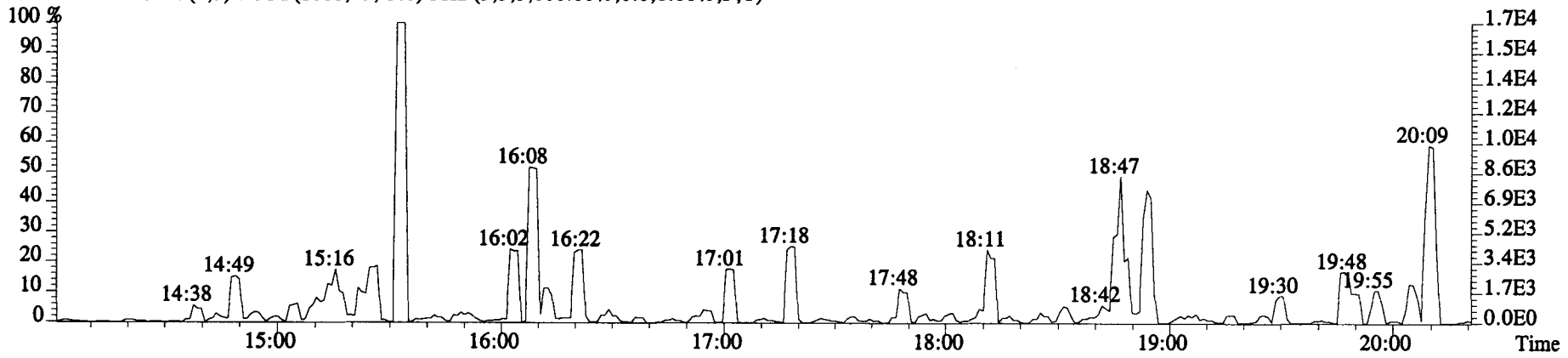
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
339.8597 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)



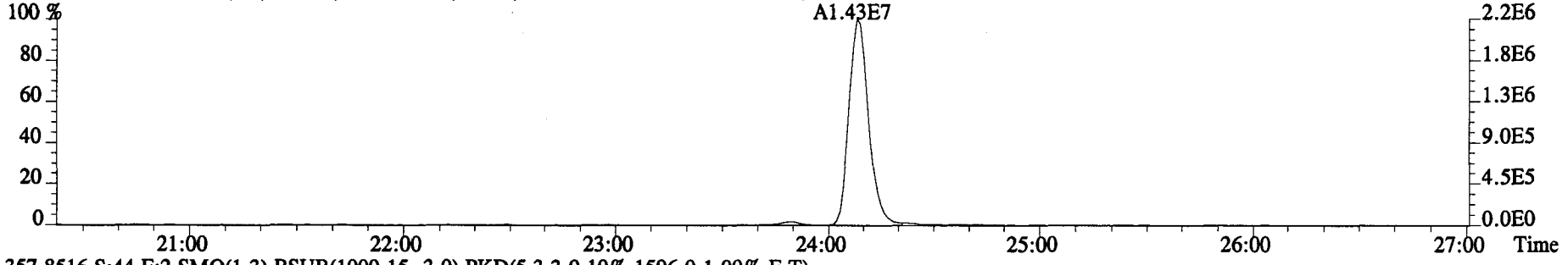
341.8567 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2184.0,1.00%,F,T)



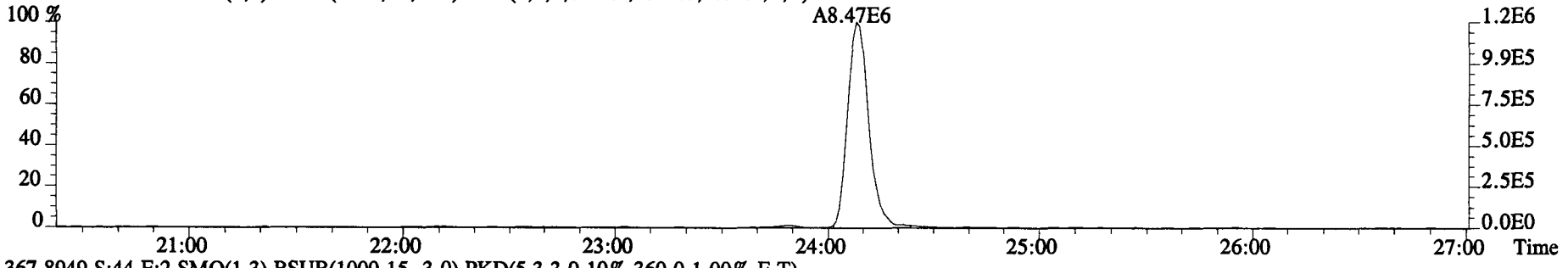
409.7974 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



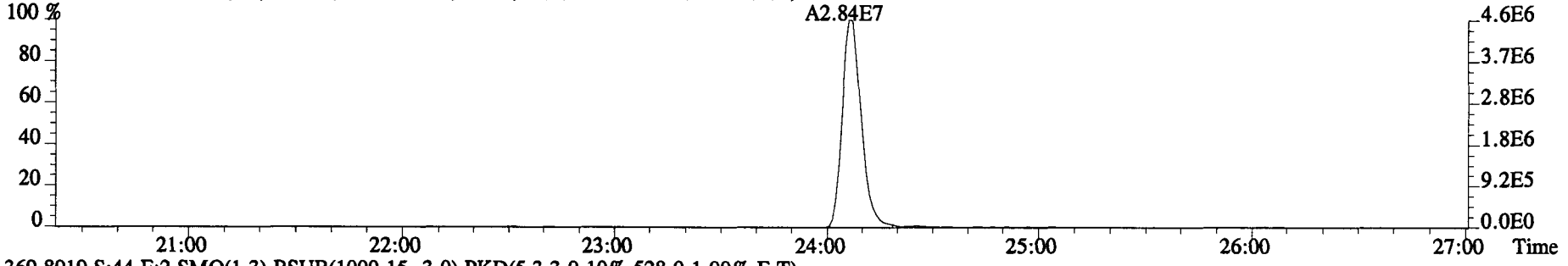
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
355.8546 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)



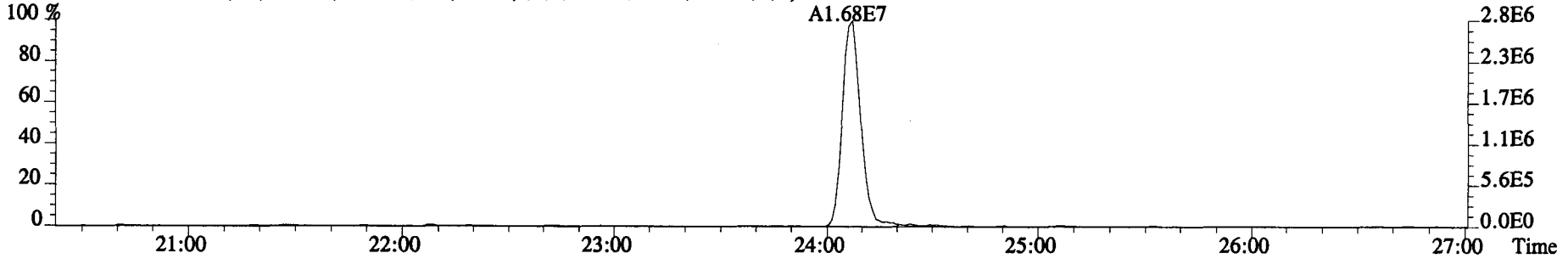
357.8516 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1596.0,1.00%,F,T)



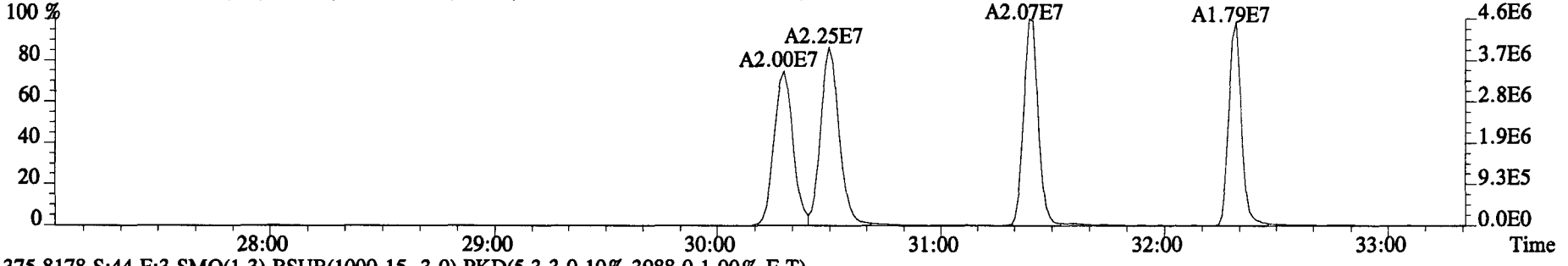
367.8949 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,360.0,1.00%,F,T)



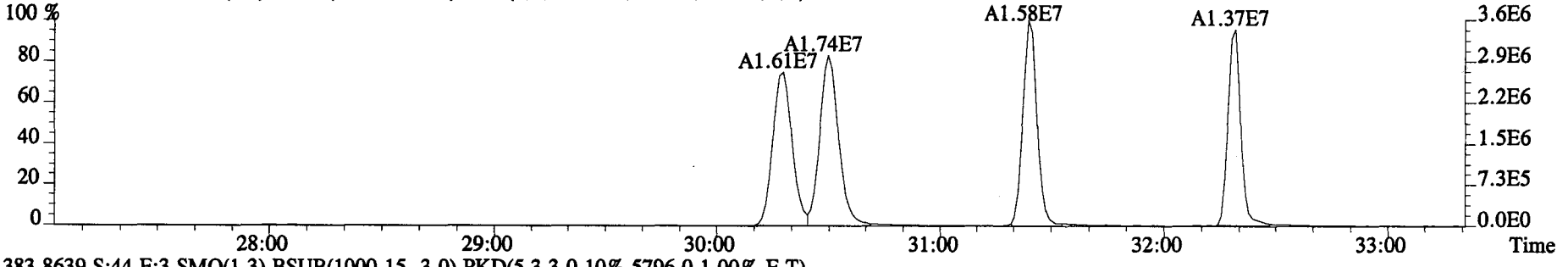
369.8919 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,528.0,1.00%,F,T)



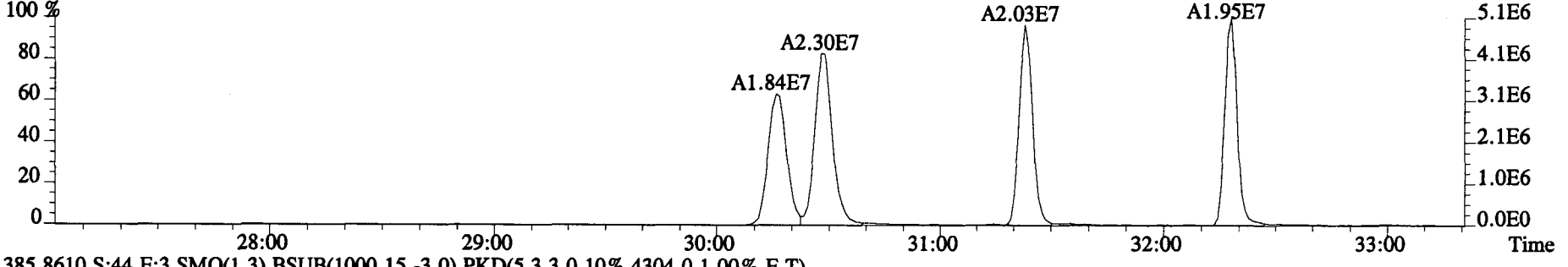
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
373.8208 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4188.0,1.00%,F,T)



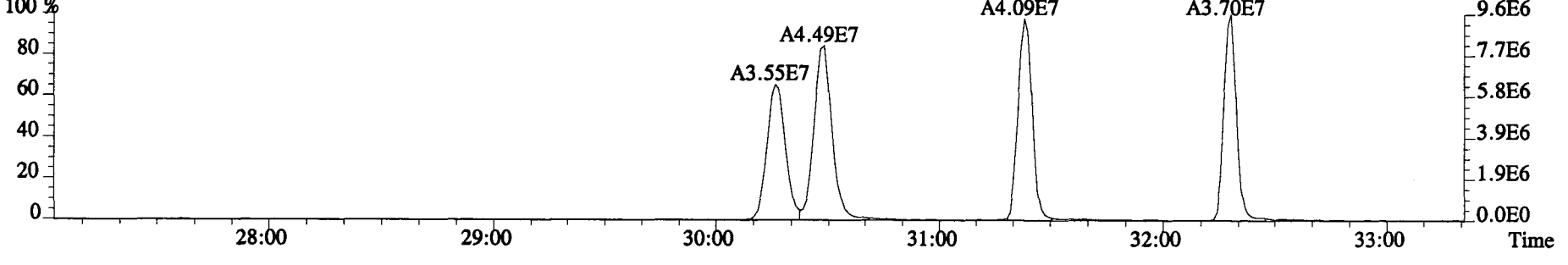
375.8178 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3988.0,1.00%,F,T)



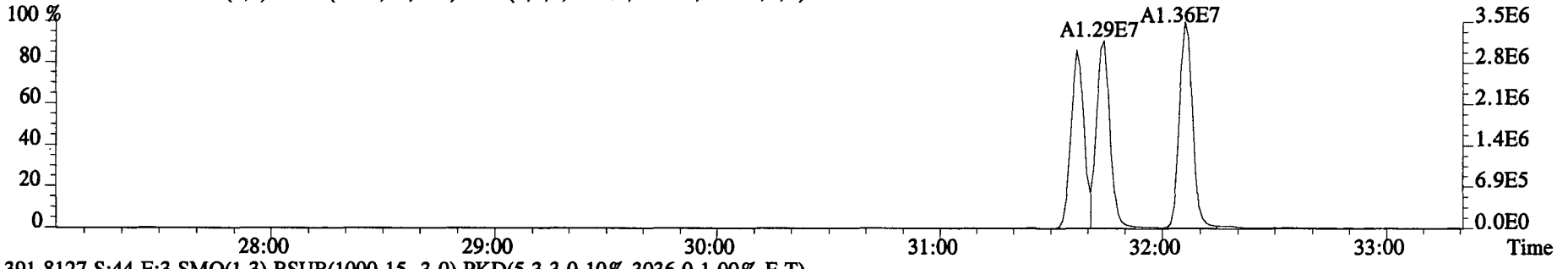
383.8639 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5796.0,1.00%,F,T)



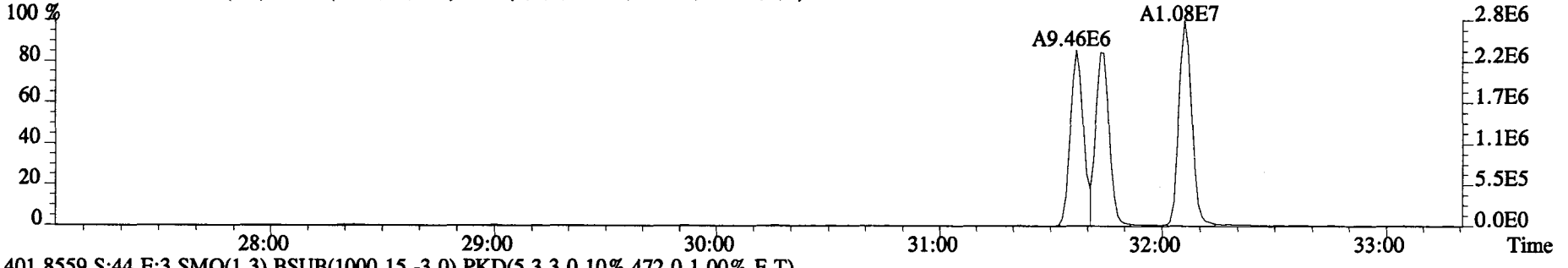
385.8610 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4304.0,1.00%,F,T)



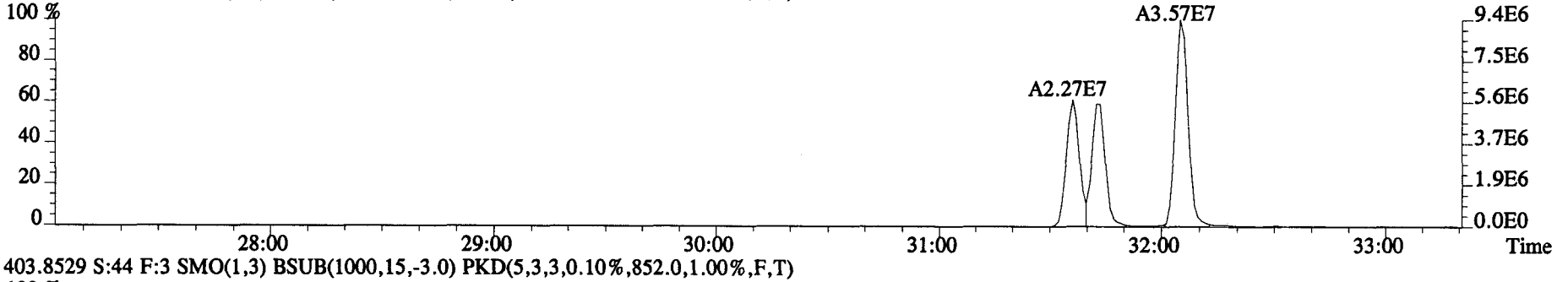
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
389.8157 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2064.0,1.00%,F,T)



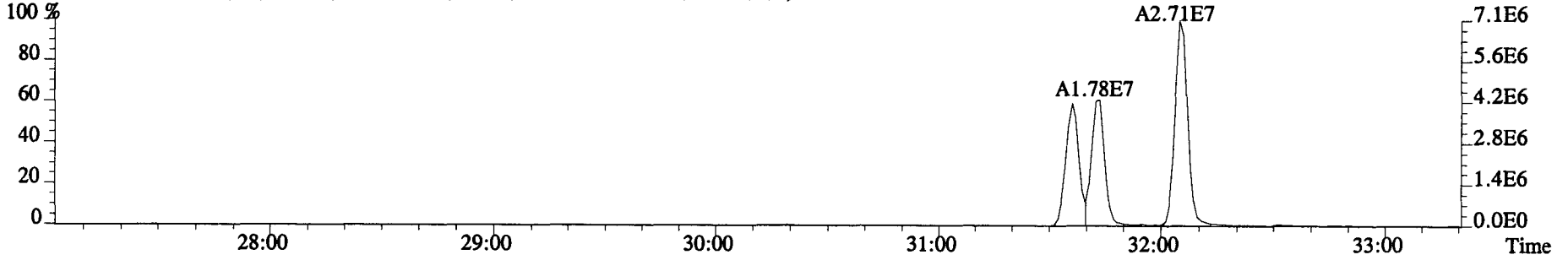
391.8127 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3036.0,1.00%,F,T)



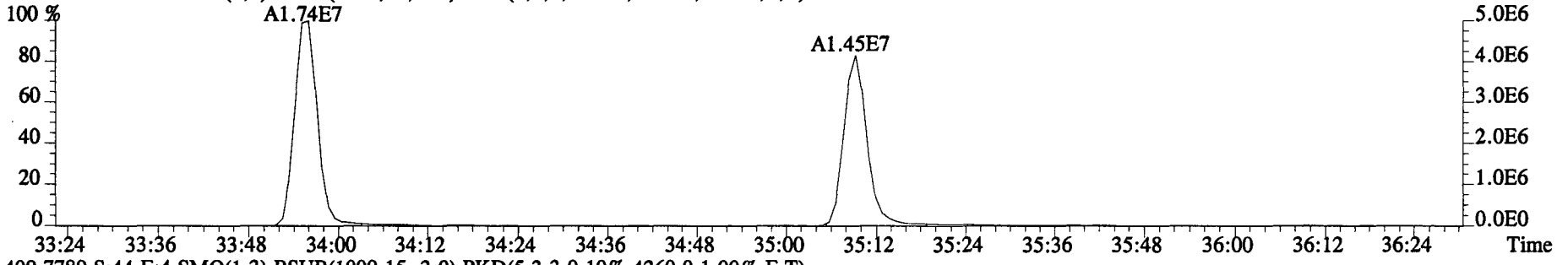
401.8559 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,472.0,1.00%,F,T)



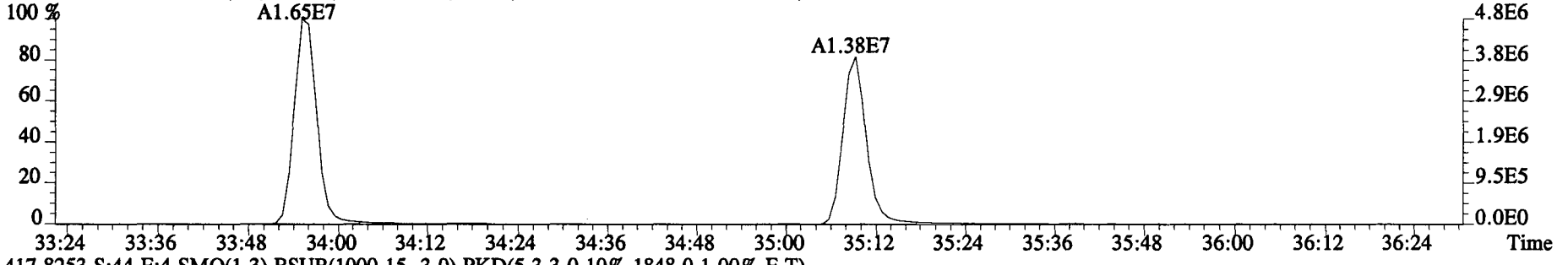
403.8529 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,852.0,1.00%,F,T)



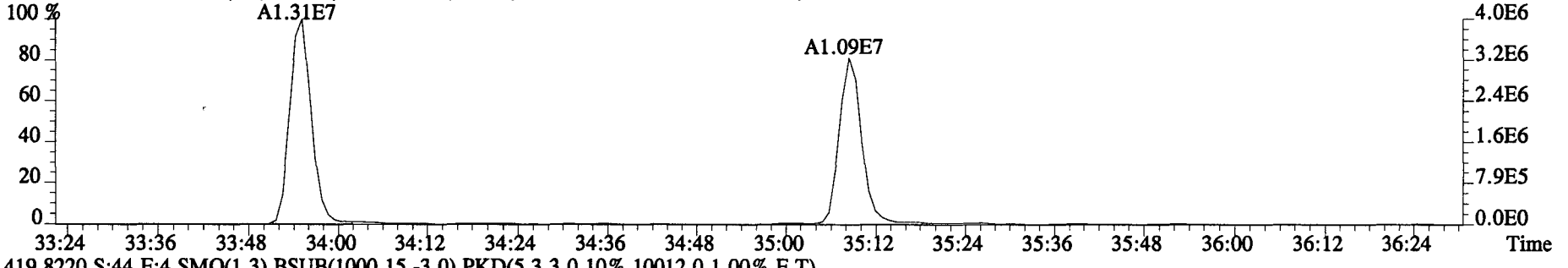
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
407.7818 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5964.0,1.00%,F,T)



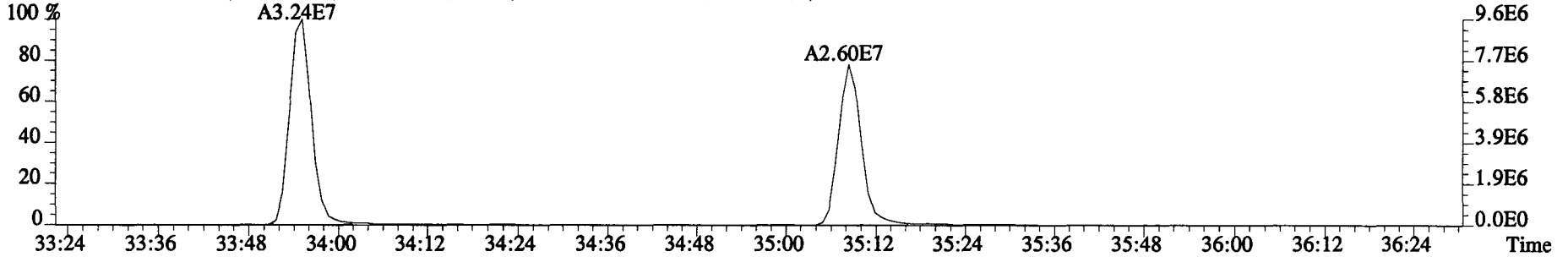
409.7789 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4260.0,1.00%,F,T)



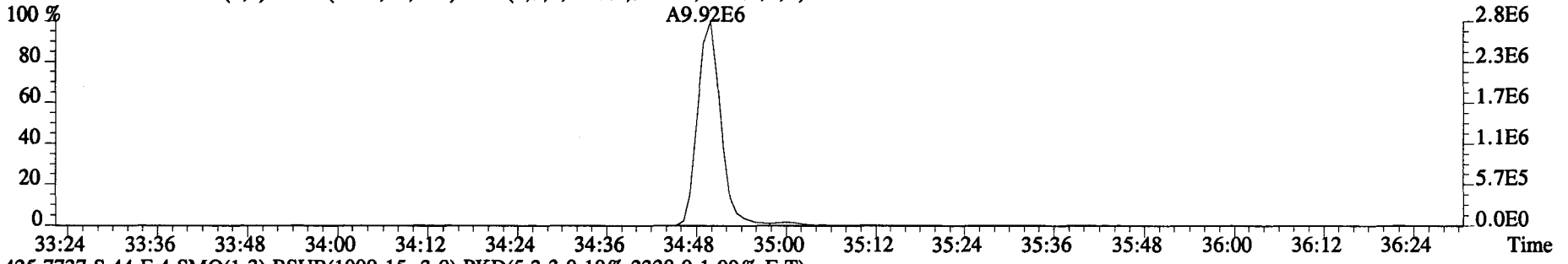
417.8253 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1848.0,1.00%,F,T)



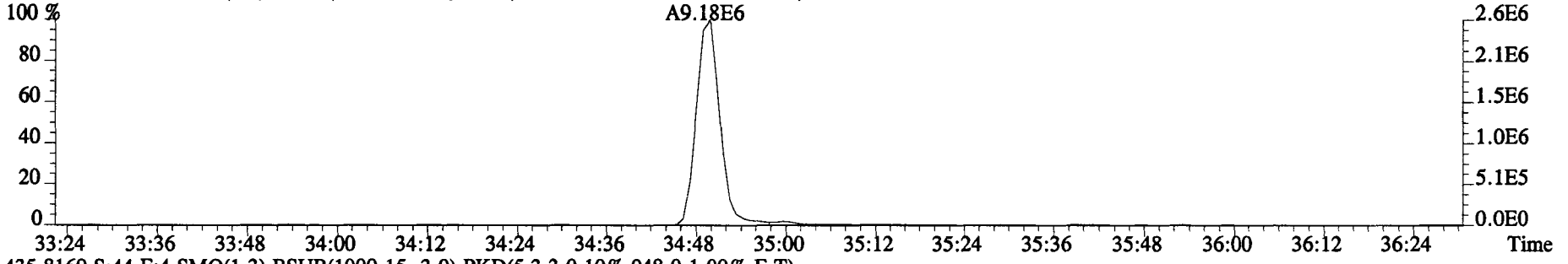
419.8220 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10012.0,1.00%,F,T)



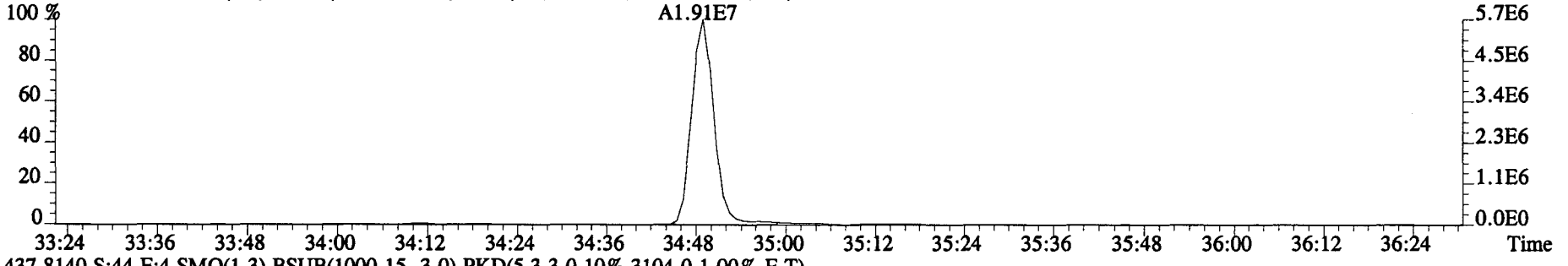
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
423.7766 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3244.0,1.00%,F,T)



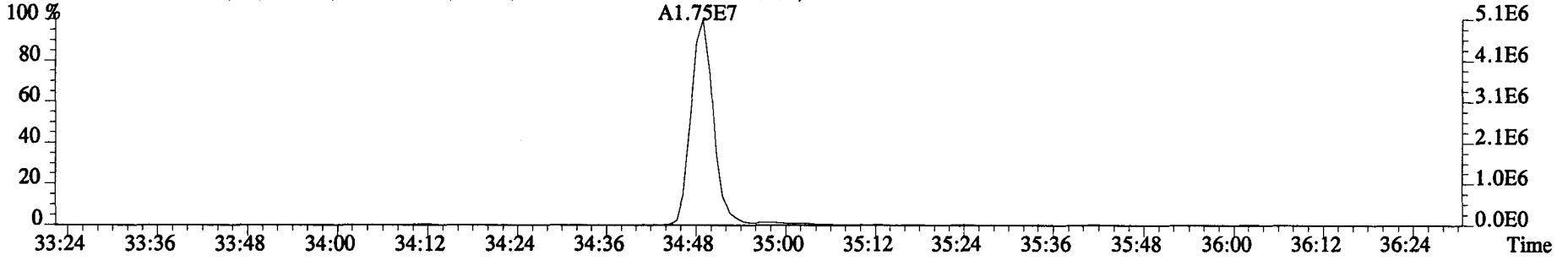
425.7737 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



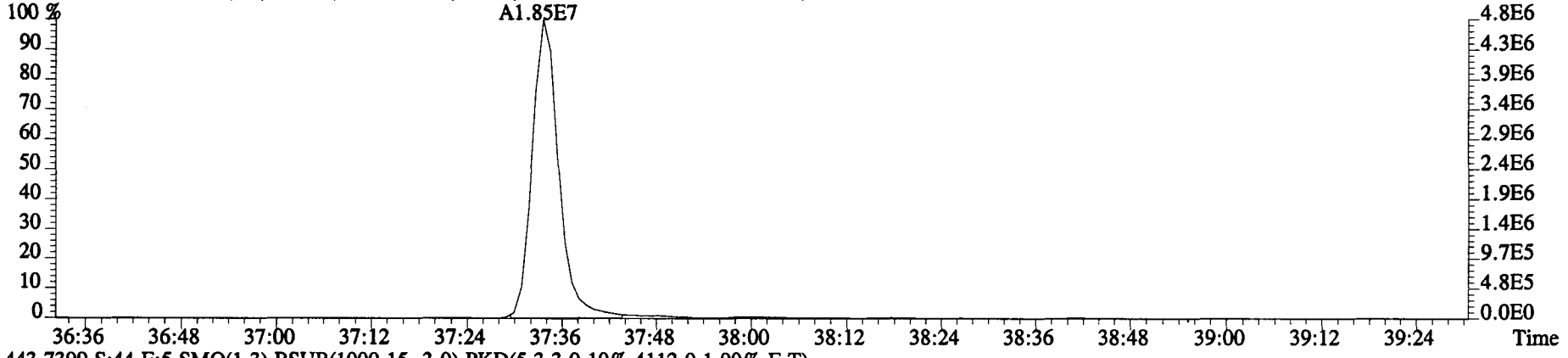
435.8169 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,948.0,1.00%,F,T)



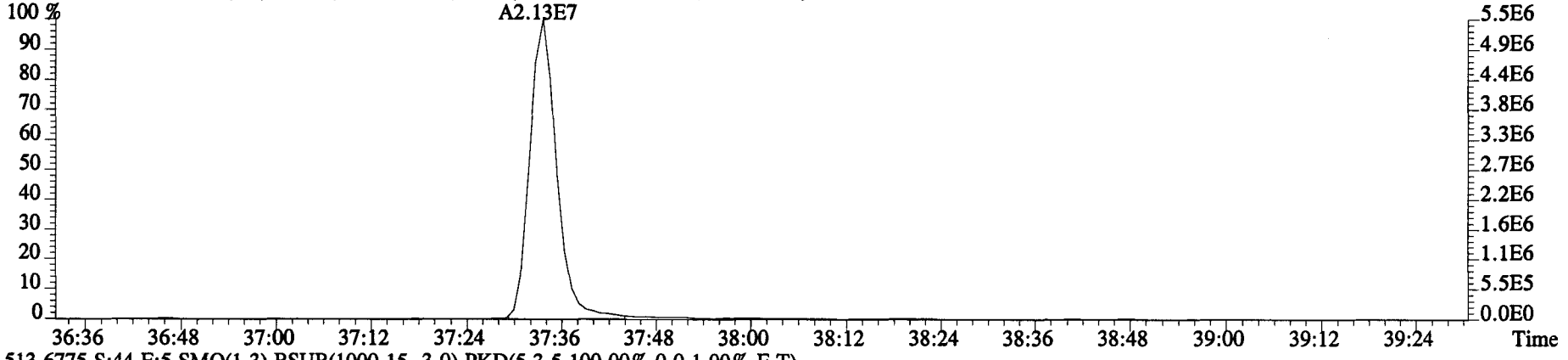
437.8140 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3104.0,1.00%,F,T)



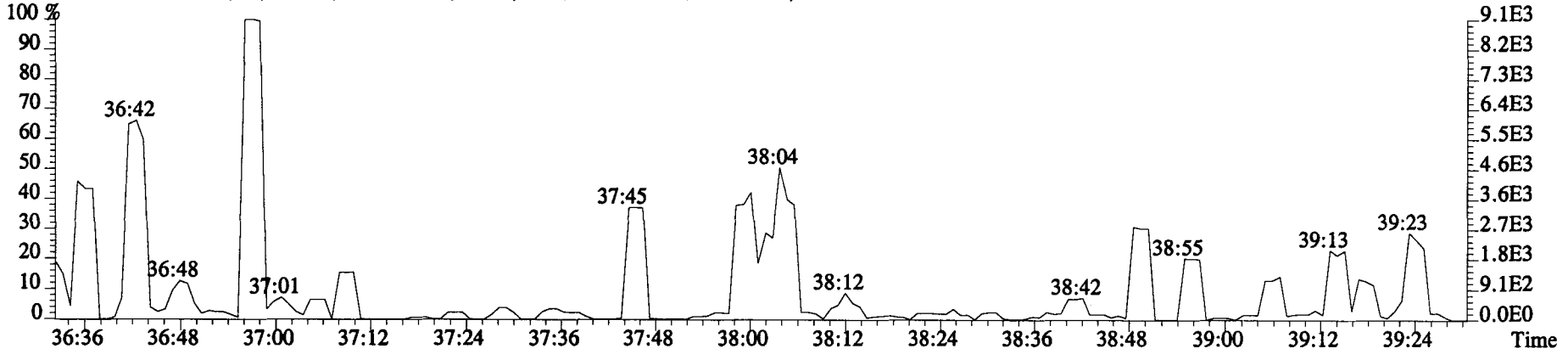
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
441.7428 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1620.0,1.00%,F,T)



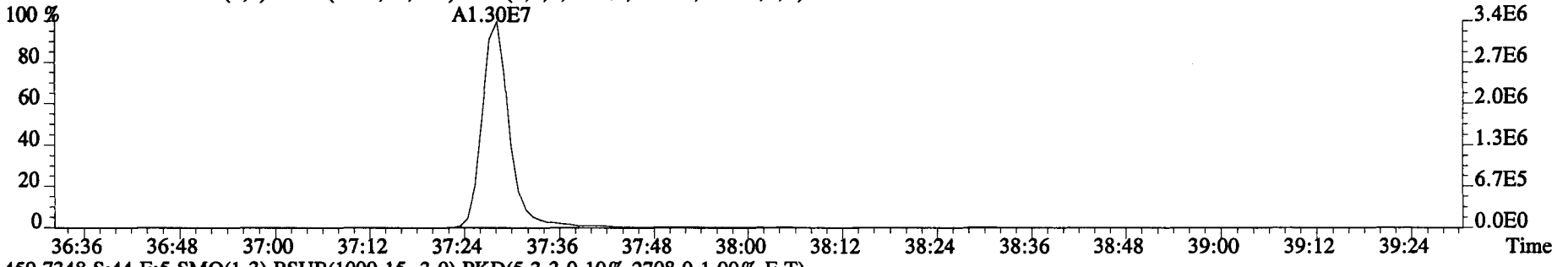
443.7399 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4112.0,1.00%,F,T)



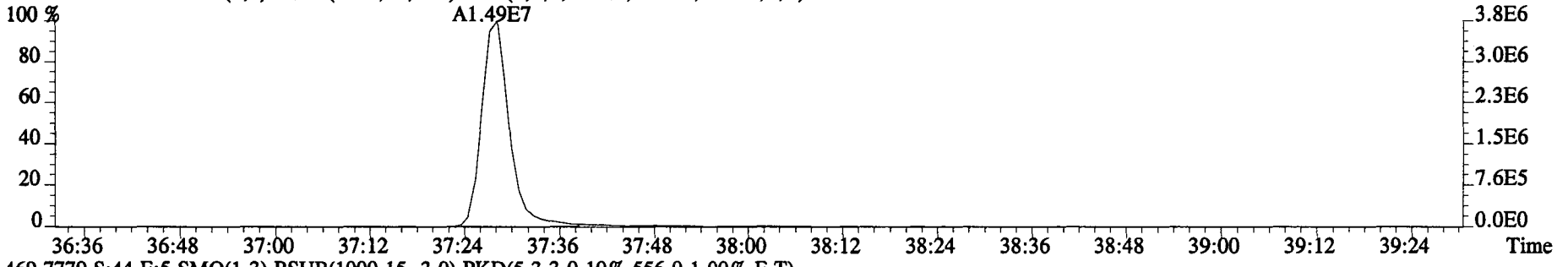
513.6775 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



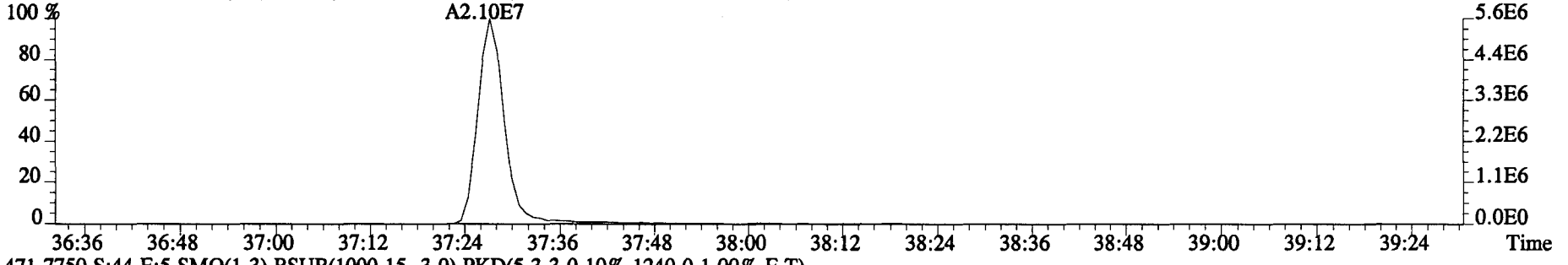
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
457.7377 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2536.0,1.00%,F,T)



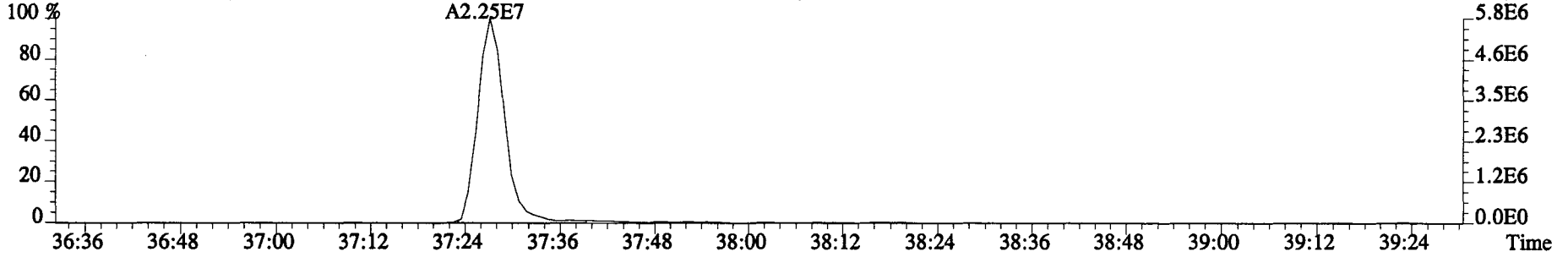
459.7348 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2708.0,1.00%,F,T)



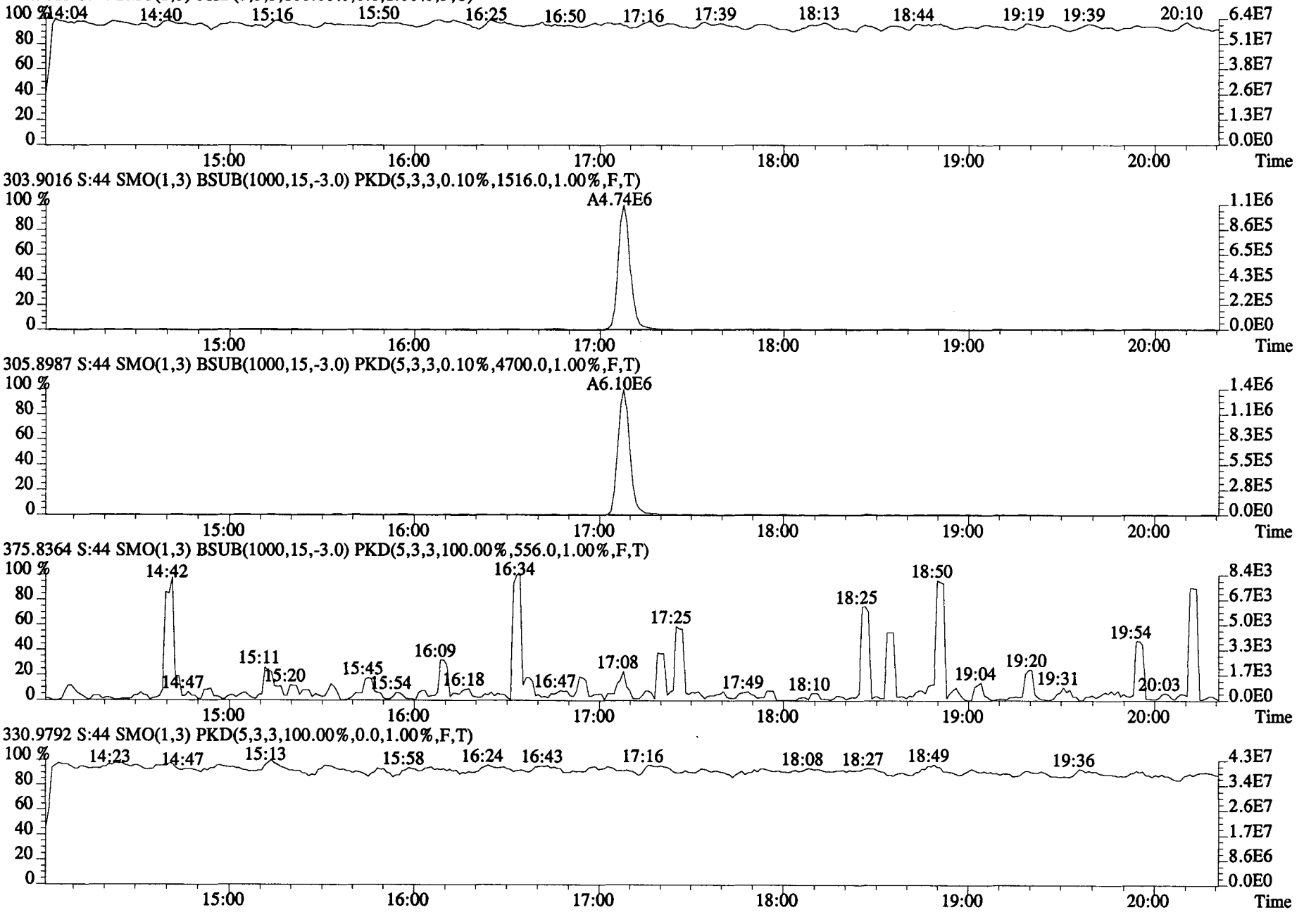
469.7779 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,556.0,1.00%,F,T)



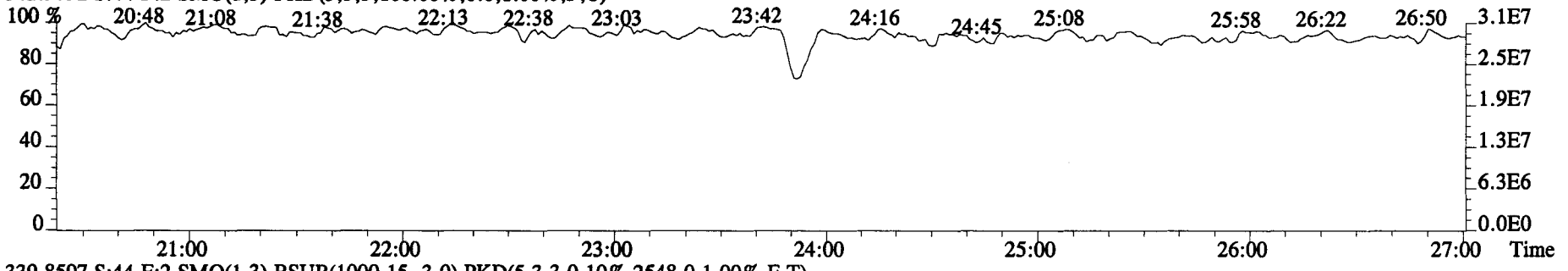
471.7750 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)



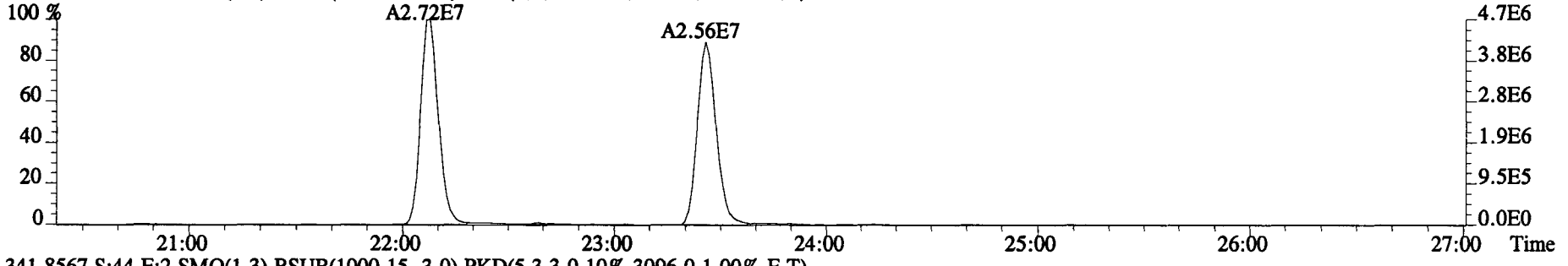
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES



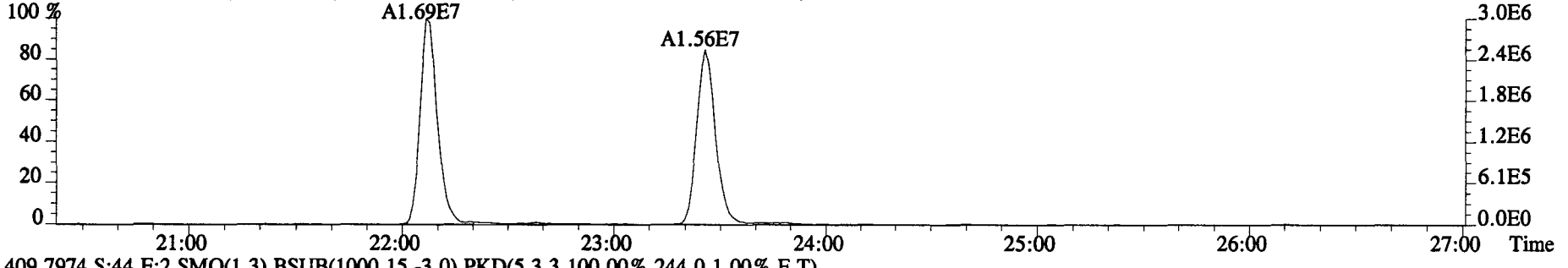
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
342.9792 S:44 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



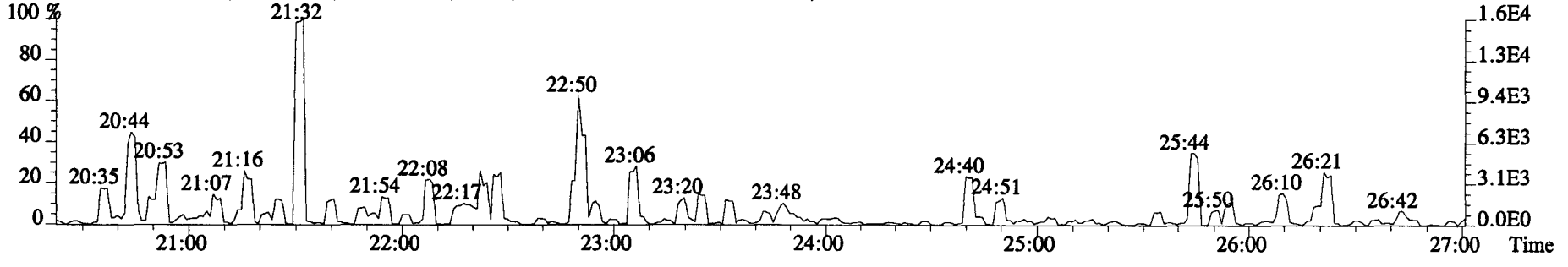
339.8597 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)



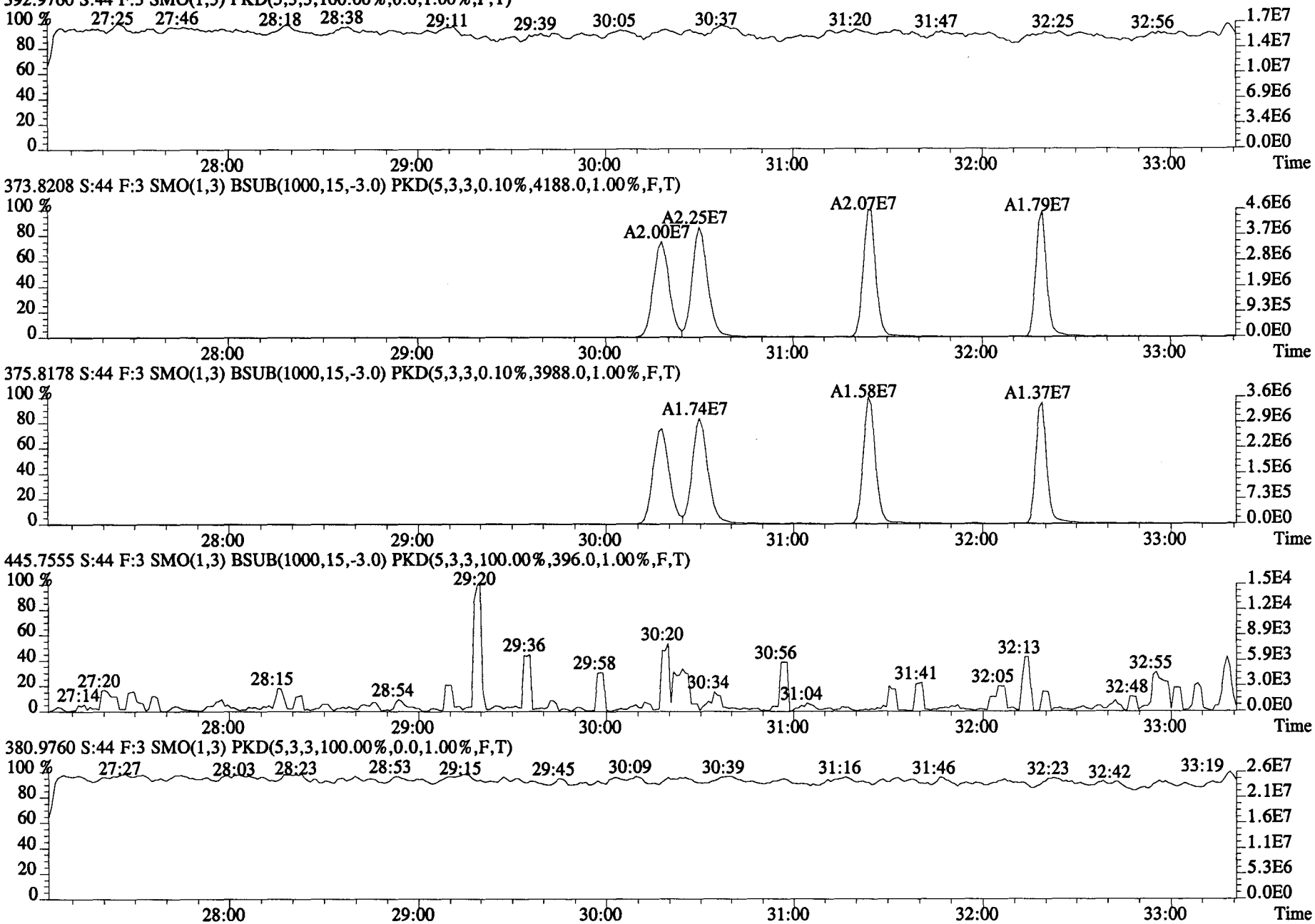
341.8567 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3096.0,1.00%,F,T)



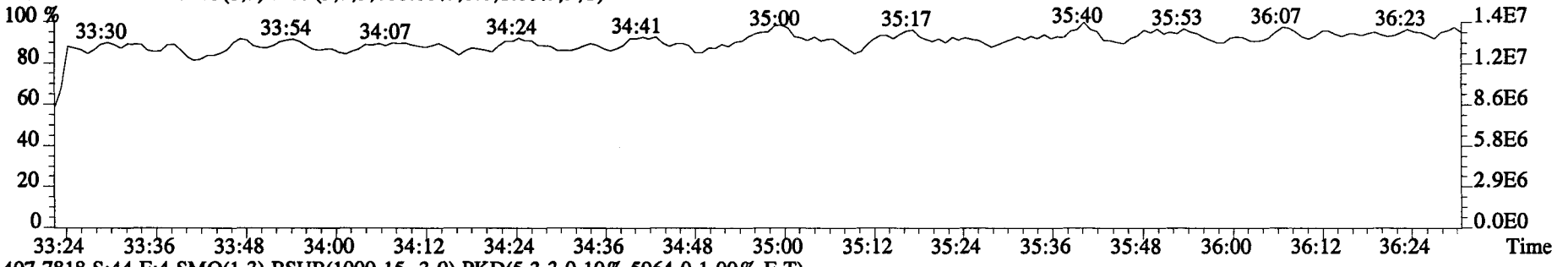
409.7974 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,244.0,1.00%,F,T)



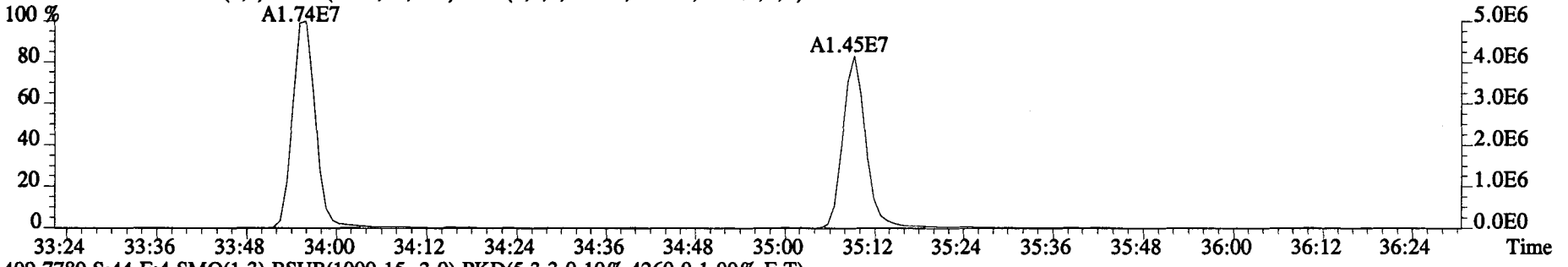
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES



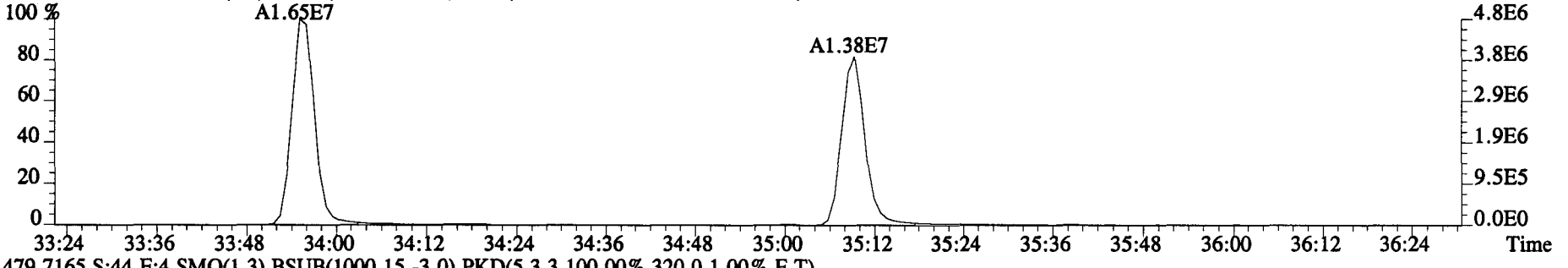
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
430.9728 S:44 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



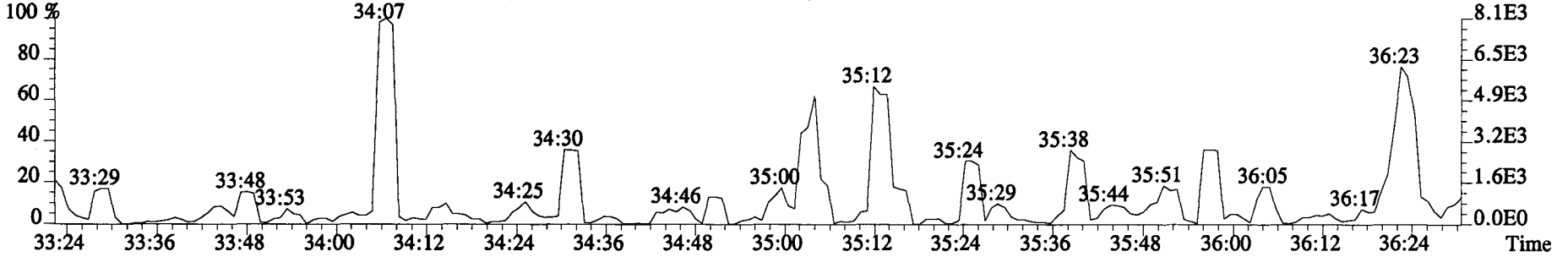
407.7818 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5964.0,1.00%,F,T)



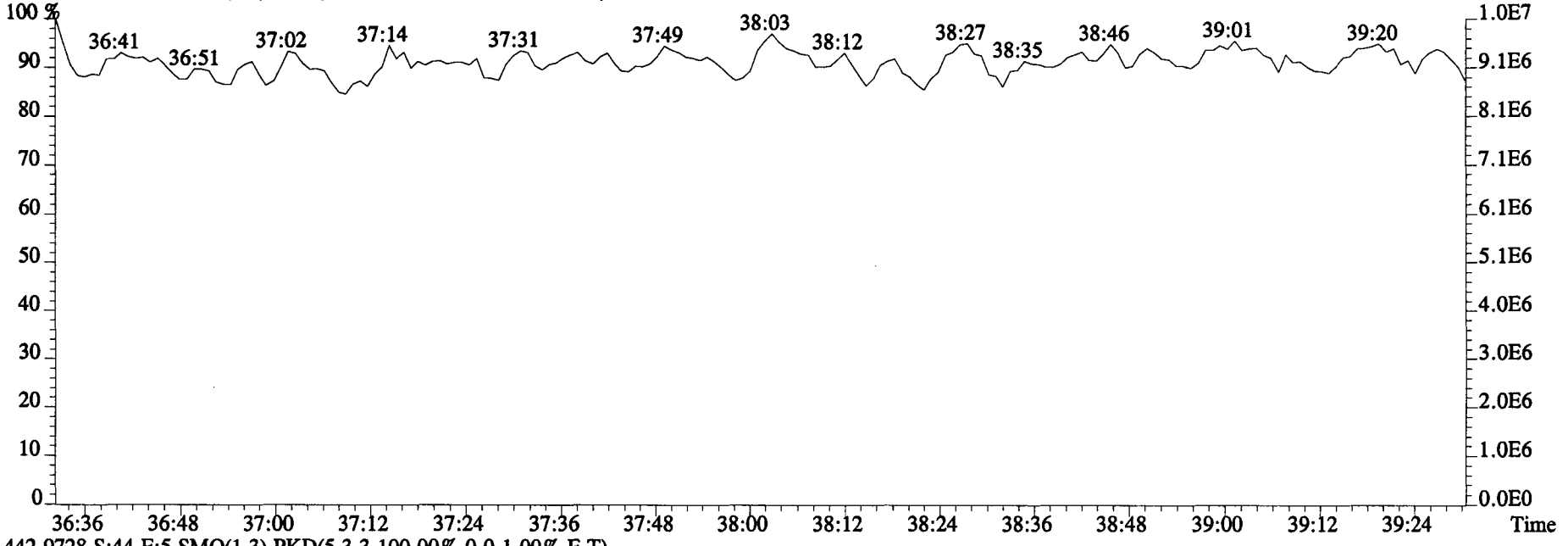
409.7789 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4260.0,1.00%,F,T)



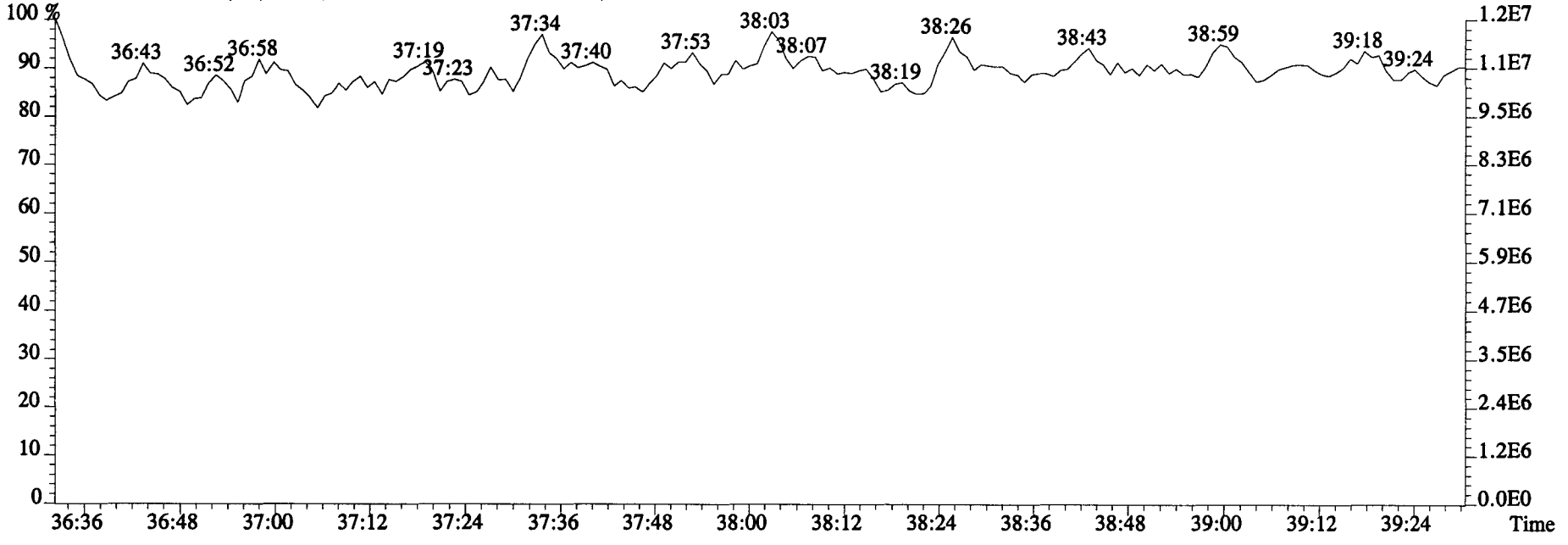
479.7165 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,320.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:17-AUG-2010 23:42:21 GC EI+ Voltage SIR 70SE
Sample#44 Text:L5LC4-1-ADL :G0H140454-1DCS Exp:DIOXINRES
454.9728 S:44 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:44 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1
Run #11 Filename: 16AU10B1D5 S: 45 I: 1 Results: 16au10b1d5to9os
Acquired: 18-AUG-10 00:26:17 Processed: 18-AUG-10 10:46:49
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	110137000	0.81	y	17:37	-	58.516	-	-	n
13C-2,3,7,8-TCDF	137791100	0.79	y	17:06	1.56	3204.450	1.258	80.1	n
2,3,7,8-TCDF	77453	0.71	y	17:09	0.87	2.570 DL	1.944	-	n
Total TCDF	416186	0.76	y	14:36	0.87	~~13.808~~	~~1.944~~ 3.41	-	n
13C-2,3,7,8-TCDD	84361300	0.78	y	17:49	0.94	3275.707	3.561	81.9	n
2,3,7,8-TCDD	49922	0.67	y	17:54	0.96	2.473 J	1.889	-	n
Total TCDD	332447	3.10	n	14:53	0.96	~~16.466~~	~~1.889~~ 2.473	-	n
37Cl-2,3,7,8-TCDD	76793800	1.00	y	17:50	1.22	2993.860	0.708	93.6	n
13C-1,2,3,7,8-PeCDF	83135700	1.65	y	22:06	1.06	2843.228	0.750	71.1	n
1,2,3,7,8-PeCDF	34863	0.86	n	22:08	1.08	~~1.553~~	3.264	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	3.596	-	n
Total F2 PeCDF	263620	4.09	n	20:49	1.03	~~12.238~~	~~3.422~~ 3.596	-	n
Total F1 PeCDF	220066	0.42	n	14:20	1.03	~~10.279~~	2.106	-	n
13C-1,2,3,7,8-PeCDD	47889900	1.73	y	24:07	0.65	2691.533	1.074	67.3	n
1,2,3,7,8-PeCDD	16610	3.11	n	24:13	0.92	~~1.500~~	5.066	-	n
Total PeCDD	239349	1.97	n	20:57	0.92	~~21.617~~	~~5.066~~ 6.57	-	n
13C-1,2,3,7,8,9-HxCDD	58705100	1.32	y	32:06	-	41.301	-	-	n
13C-1,2,3,4,7,8-HxCDF	53107700	0.49	y	30:17	0.99	3669.741	6.571	91.7	n
1,2,3,4,7,8-HxCDF	50395	0.82	n	30:21	1.15	~~3.291~~	4.269	-	n
1,2,3,6,7,8-HxCDF	67696	1.55	n	30:30	1.24	4.102 DL	3.962	-	n
2,3,4,6,7,8-HxCDF	31030	2.63	n	31:27	1.22	~~1.919~~	4.044	-	n
1,2,3,7,8,9-HxCDF	59547	1.09	y	32:22	1.19	3.785	4.155	-	n
Total HxCDF	503580	1.77	n	27:37	1.20	~~31.611~~	~~4.104~~ 9.54	-	n
13C-1,2,3,6,7,8-HxCDD	40699100	1.35	y	31:44	0.77	3611.277	1.577	90.3	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	3.840	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	3.570	-	n
1,2,3,7,8,9-HxCDD	41089	1.49	n	32:08	1.24	3.251 DL	3.180	-	n
Total HxCDD	41089	1.49	n	32:08	1.13	~~3.251~~	~~3.509~~ 3.84	-	n
13C-1,2,3,4,6,7,8-HpCDF	44042100	0.41	y	33:55	0.98	3059.279	6.930	76.5	n
1,2,3,4,6,7,8-HpCDF	148249	1.31	n	33:55	1.35	9.976 JQ	2.681	-	y
1,2,3,4,7,8,9-HpCDF	32370	2.10	n	35:09	1.19	~~2.478~~	3.050	-	n
Total HpCDF	285814	1.31	n	33:55	1.27	15.057 ~~19.990~~	2.853	-	y
13C-1,2,3,4,6,7,8-HpCDD	37568000	1.11	y	34:49	0.81	3177.069	7.735	79.4	n
1,2,3,4,6,7,8-HpCDD	86540	1.10	y	34:50	1.03	8.978 J	3.770	-	n
Total HpCDD	276161	0.82	n	34:13	1.03	16.0 ~~28.650~~	3.770	-	n
13C-OCDD	47627800	0.87	y	37:27	0.62	5275.655	2.475	65.9	n
OCDF	124253	0.54	n	37:35	1.44	14.444 JQ	6.299	-	n

OCDD	213491	1.49	n	37:28	1.09		32.888	JD	3.926	- y

Run text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1
Run #11 Filename: 16AU10B1D5 S: 45 I: 1 Results: 16AU10B1D5TO9os
Acquired: 18-AUG-10 00:26:17 Processed: 18-AUG-10 10:46:49
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

08-20-10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	110137000	0.81	y	17:37	-	58.516	-	-	n
13C-2,3,7,8-TCDF	137791100	0.79	y	17:06	1.56	3204.450	1.258	80.1	n
2,3,7,8-TCDF	77453	0.71	y	17:09	0.87	S/N<2.5 2.570 DL	~~1.944~~	-	n
Total TCDF	416186	0.76	y	14:36	0.87	~~13.808~~	~~1.944~~ 3.41	-	n
13C-2,3,7,8-TCDD	84361300	0.78	y	17:49	0.94	3275.707	3.561	81.9	n
2,3,7,8-TCDD	49922	0.67	y	17:54	0.96	S/N<2.5 2.473 DL	~~1.889~~	-	n
Total TCDD	332447	3.10	n	14:53	0.96	~~16.466~~	~~1.889~~ 2.473	-	n
37Cl-2,3,7,8-TCDD	76793800	1.00	y	17:50	1.22	2993.860	0.708	93.6	n
13C-1,2,3,7,8-PeCDF	83135700	1.65	y	22:06	1.06	2843.228	0.750	71.1	n
1,2,3,7,8-PeCDF	34863	0.86	n	22:08	1.08	~~1.553~~	3.264	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	~~*~~	3.596	-	n
Total F2 PeCDF	263620	4.09	n	20:49	1.03	~~12.238~~	~~3.422~~	-	n
Total F1 PeCDF	220066	0.42	n	14:20	1.03	~~10.279~~	~~2.106~~ 3.596	-	n
13C-1,2,3,7,8-PeCDD	47889900	1.73	y	24:07	0.65	2691.533	1.074	67.3	n
1,2,3,7,8-PeCDD	16610	3.11	n	24:13	0.92	~~1.500~~	5.066	-	n
Total PeCDD	239349	1.97	n	20:57	0.92	~~21.617~~ 6.57 DL	5.066	-	n
13C-1,2,3,7,8,9-HxCDD	58705100	1.32	y	32:06	-	41.301	-	-	n
13C-1,2,3,4,7,8-HxCDF	53107700	0.49	y	30:17	0.99	3669.741	6.571	91.7	n
1,2,3,4,7,8-HxCDF	50395	0.82	n	30:21	1.15	~~3.291~~	4.269	-	n
1,2,3,6,7,8-HxCDF	67696	1.55	n	30:30	1.24	S/N<2.5 4.102 DL	~~3.962~~	-	n
2,3,4,6,7,8-HxCDF	31030	2.63	n	31:27	1.22	~~1.919~~	4.044	-	n
1,2,3,7,8,9-HxCDF	59547	1.09	y	32:22	1.19	~~3.785~~	4.155	-	n
Total HxCDF	503580	1.77	n	27:37	1.20	~~31.611~~ 9.34 DL	4.104	-	n
13C-1,2,3,6,7,8-HxCDD	40699100	1.35	y	31:44	0.77	3611.277	1.577	90.3	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	~~*~~	3.840	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	~~*~~	3.570	-	n
1,2,3,7,8,9-HxCDD	41089	1.49	n	32:08	1.24	S/N<2.5 3.251 DL	~~3.180~~	-	n
Total HxCDD	41089	1.49	n	32:08	1.13	~~3.251~~	~~3.509~~ 3.84	-	n
13C-1,2,3,4,6,7,8-HpCDF	44042100	0.41	y	33:55	0.98	3059.279	6.930	76.5	n
1,2,3,4,6,7,8-HpCDF	221144	1.74	m	33:54	1.35	14.881 QJ	2.681	-	y
1,2,3,4,7,8,9-HpCDF	32370	2.10	n	35:09	1.19	~~2.478~~	3.050	-	n
Total HpCDF	358709	1.74	n	33:54	1.27	15,057 ~~24.895~~ 19.96	2.853	-	y
13C-1,2,3,4,6,7,8-HpCDD	37568000	1.11	y	34:49	0.81	3177.069	7.735	79.4	n
1,2,3,4,6,7,8-HpCDD	86540	1.10	y	34:50	1.03	8.978 J	3.770	-	n
Total HpCDD	276161	0.82	n	34:13	1.03	~~28.650~~ 16.0	3.770	-	n
13C-OCDD	47627800	0.87	y	37:27	0.62	5275.655	2.475	65.9	n
OCDF	124253	0.54	n	37:35	1.44	14.444 J,Q	6.299	-	n

OCDD	213491	1.49	n	37:28	1.09	32.888	0.5	3.926	- y

Run text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1
Run #11 Filename: 16AU10B1D5 S: 45 I: 1 Results: 16au10b1d5TO9
Acquired: 18-AUG-10 00:26:17 Processed: 18-AUG-10 10:46:49
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	110137000	0.81	y	17:37	-	58.516	-	-	n
13C-2,3,7,8-TCDF	137791100	0.79	y	17:06	1.56	3204.450	1.258	80.1	n
2,3,7,8-TCDF	77453	0.71	y	17:09	0.87	2.570	1.944	-	n
Total TCDF	416186	0.76	y	14:36	0.87	13.808	1.944	-	n
13C-2,3,7,8-TCDD	84361300	0.78	y	17:49	0.94	3275.707	3.561	81.9	n
2,3,7,8-TCDD	49922	0.67	y	17:54	0.96	2.473	1.889	-	n
Total TCDD	332447	3.10	n	14:53	0.96	16.466	1.889	-	n
37Cl-2,3,7,8-TCDD	76793800	1.00	y	17:50	1.22	2993.860	0.708	93.6	n
13C-1,2,3,7,8-PeCDF	83135700	1.65	y	22:06	1.06	2843.228	0.750	71.1	n
1,2,3,7,8-PeCDF	34863	0.86	n	22:08	1.08	1.553	3.264	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	3.596	-	n
Total F2 PeCDF	263620	4.09	n	20:49	1.03	12.238	3.422	-	n
Total F1 PeCDF	220066	0.42	n	14:20	1.03	10.279	2.106	-	n
13C-1,2,3,7,8-PeCDD	47889900	1.73	y	24:07	0.65	2691.533	1.074	67.3	n
1,2,3,7,8-PeCDD	16610	3.11	n	24:13	0.92	1.500	5.066	-	n
Total PeCDD	239349	1.97	n	20:57	0.92	21.617	5.066	-	n
13C-1,2,3,7,8,9-HxCDD	58705100	1.32	y	32:06	-	41.301	-	-	n
13C-1,2,3,4,7,8-HxCDF	53107700	0.49	y	30:17	0.99	3669.741	6.571	91.7	n
1,2,3,4,7,8-HxCDF	50395	0.82	n	30:21	1.15	3.291	4.269	-	n
1,2,3,6,7,8-HxCDF	67696	1.55	n	30:30	1.24	4.102	3.962	-	n
2,3,4,6,7,8-HxCDF	31030	2.63	n	31:27	1.22	1.919	4.044	-	n
1,2,3,7,8,9-HxCDF	59547	1.09	y	32:22	1.19	3.785	4.155	-	n
Total HxCDF	503580	1.77	n	27:37	1.20	31.611	4.104	-	n
13C-1,2,3,6,7,8-HxCDD	40699100	1.35	y	31:44	0.77	3611.277	1.577	90.3	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	3.840	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	3.570	-	n
1,2,3,7,8,9-HxCDD	41089	1.49	n	32:08	1.24	3.251	3.180	-	n
Total HxCDD	41089	1.49	n	32:08	1.13	3.251	3.509	-	n
13C-1,2,3,4,6,7,8-HpCDF	44042100	0.41	y	33:55	0.98	3059.279	6.930	76.5	n
1,2,3,4,6,7,8-HpCDF	204092	1.89	n	33:54	1.35	13.734	2.681	-	n
1,2,3,4,7,8,9-HpCDF	32370	2.10	n	35:09	1.19	2.478	3.050	-	n
Total HpCDF	341657	1.89	n	33:54	1.27	23.747	2.853	-	n
13C-1,2,3,4,6,7,8-HpCDD	37568000	1.11	y	34:49	0.81	3177.069	7.735	79.4	n
1,2,3,4,6,7,8-HpCDD	86540	1.10	y	34:50	1.03	8.978	3.770	-	n
Total HpCDD	276161	0.82	n	34:13	1.03	28.650	3.770	-	n
13C-OCDD	47627800	0.87	y	37:27	0.62	5275.655	2.475	65.9	n
OCDF	124253	0.54	n	37:35	1.44	14.444	6.299	-	n

OCDD	231746	1.34	n	37:28	1.09	35.700	3.926	- n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:9
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC┐ Cal: TO90727101D5 Results: 16AU10B1┐

Amount:	6.90 of which	1.28 named and	5.62	unnamed
Conc:	13.81 of which	2.57 named and	11.24	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:36	0.76	y	1.43	18647	2.0	n	n
						24564	2.1	n	n
	2	15:30	0.75	y	3.41	43949	4.9	y	n
						58731	4.7	y	n
	3	15:40	0.65	n	1.78	23376	2.4	n	n
						36010	2.4	n	n
	4	15:58	0.41	n	1.12	14712	2.2	n	n
						36224	4.0	y	n
	5	16:36	0.32	n	0.38	5010	1.3	n	n
						15583	1.7	n	n
2,3,7,8-TCDF	6	17:09	0.71	y	2.57	32135	2.9	n	n
						45318	4.1	y	n
	7	17:33	1.82	n	0.61	18858	2.2	n	n
						10381	1.3	n	n
	8	17:38	3.86	n	0.61	40024	3.4	y	n
						10381	1.3	n	n
	9	18:50	0.90	n	1.89	28861	3.7	y	n
						32219	3.3	y	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:15
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC┐ Cal: TO90727101D5 Results: 16AU10B1┐

Amount:	8.23 of which	1.24 named and	7.00 unnamed
Conc:	16.47 of which	2.47 named and	13.99 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:53	3.10	n	0.20	7218	1.2	n	n
						2325	0.6	n	n

	2	15:13	3.25	n	0.92	34019	5.5	y	n
						10475	2.0	n	n
	3	15:53	0.28	n	1.57	13809	2.2	n	n
						49967	5.8	y	n
	4	16:18	1.35	n	1.34	20736	2.4	n	n
						15334	2.6	n	n
	5	16:29	1.12	n	1.11	14298	2.3	n	n
						12718	2.4	n	n
	6	16:39	4.81	n	1.02	56198	5.6	y	n
						11691	2.7	n	n
	7	17:05	4.54	n	0.84	43492	6.2	y	n
						9576	1.8	n	n
	8	17:16	7.44	n	0.43	36670	4.2	y	n
						4928	1.1	n	n
	9	17:25	2.96	n	0.42	14240	2.4	n	n
						4803	0.6	n	n
2,3,7,8-TCDD	10	17:54	0.67	y	2.47	20096	2.4	n	n
						29826	3.9	y	n
	11	18:04	0.86	y	1.98	18411	2.4	n	n
						21471	3.0	y	n
	12	18:23	3.15	n	0.75	27102	3.5	y	n
						8604	1.7	n	n
	13	18:41	0.19	n	1.09	9534	1.8	n	n
						51157	7.1	y	n
	14	18:53	0.21	n	0.49	4261	0.9	n	n
						20782	4.3	y	n
	15	18:56	1.10	n	1.82	22910	2.9	n	n
						20782	4.3	y	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:7
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	6.12 of which	0.78 named and	5.34	unnamed
Conc:	12.24 of which	1.55 named and	10.68	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:49	4.09	n	1.89	64955	4.4	y	n
						15893	2.1	n	n
	2	21:07	0.87	n	0.74	9581	1.2	n	n
						11017	1.5	n	n
	3	21:33	0.81	n	1.63	21152	3.4	y	n
						26085	1.9	n	n
	4	21:38	1.15	n	2.31	30061	3.0	n	n
						26085	1.9	n	n
	5	21:59	0.90	n	0.98	12801	1.6	n	n
						14180	1.8	n	n
1,2,3,7,8-PeCDF	6	22:08	0.86	n	1.55	21191	2.0	n	n
						24628	3.2	y	n
	7	23:51	0.51	n	3.14	40820	3.2	y	n
						79927	5.3	y	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:10
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	5.14 of which	* named and	5.14	unnamed
Conc:	10.28 of which	* named and	10.28	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:20	0.42	n	0.43	5647	1.7	n	n
						13558	2.5	n	n
	2	14:30	0.57	n	0.95	12420	3.8	y	n
						21725	2.6	n	n
	3	15:13	0.32	n	1.77	23003	6.0	y	n
						71784	9.8	y	n
	4	16:05	0.61	n	0.62	8047	2.1	n	n

					13258	2.1	n	n
5	16:41	0.33	n	0.64	8335	2.4	n	n
					25596	3.1	y	n
6	17:17	1.77	y	1.01	13781	3.2	y	n
					7799	1.3	n	n
7	18:49	0.34	n	2.83	36805	5.5	y	n
					108942	13.3	y	n
8	19:25	0.55	n	0.97	12626	2.6	n	n
					23150	2.9	n	n
9	19:33	0.55	n	0.47	6169	1.1	n	n
					11170	2.1	n	n
10	20:14	1.24	n	0.58	7597	1.9	n	n
					6137	1.3	n	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:11
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	10.81 of which	0.75 named and	10.06	unnamed
Conc:	21.62 of which	1.50 named and	20.12	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:57	1.97	n	2.89	24767	3.5	y	n
						12563	2.3	n	n
	2	21:25	1.36	y	1.62	10315	1.5	n	n
						7577	2.2	n	n
	3	22:20	1.28	n	1.05	7040	1.3	n	n
						5481	1.6	n	n
	4	23:26	1.78	n	2.07	16036	2.1	n	n
						8985	1.4	n	n
	5	23:50	5.13	n	6.57	146318	11.2	y	n
						28547	6.4	y	n
1,2,3,7,8-PeCDD	6	24:13	3.11	n	1.50	20278	3.1	y	n
						6514	2.1	n	n
	7	24:20	0.62	n	0.60	4027	0.7	n	n
						6514	2.1	n	n
	8	24:55	4.42	n	0.83	15986	1.5	n	n
						3618	0.8	n	n
	9	25:11	3.13	n	1.15	15575	1.8	n	n
						4980	1.6	n	n
	10	26:12	0.89	n	1.89	12735	1.8	n	n
						14237	4.2	y	n
	11	26:20	2.14	n	1.45	13417	1.2	n	n
						6282	2.0	n	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:11
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	15.81 of which	6.55 named and	9.26	unnamed
Conc:	31.61 of which	13.10 named and	18.51	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:37	1.77	n	2.91	36636	3.3	y	n
						20719	2.5	n	n
	2	27:43	1.73	n	1.42	17439	2.8	n	n
						10068	1.2	n	n
	3	28:01	1.24	y	9.34	82357	7.1	y	n
						66466	4.2	y	n
1,2,3,4,7,8-HxCDF	4	30:21	0.82	n	~~3.29~~	27897	3.4	y	n
						34084	3.4	y	n
1,2,3,6,7,8-HxCDF	5	30:30	1.55	n	4.10	46844	5.2	y	n
						30221	2.7	n	n
2,3,4,6,7,8-HxCDF	6	31:27	2.63	n	1.92	36373	4.2	y	n
						13853	1.6	n	n
	7	31:58	1.57	n	1.41	15804	1.8	n	n
						10062	1.6	n	n
	8	32:00	0.90	n	1.02	9013	1.1	n	n
						10062	1.6	n	n
1,2,3,7,8,9-HxCDF	9	32:22	1.09	y	3.78	31078	3.1	y	n
						28469	2.9	n	n
	10	32:27	1.04	n	1.05	9286	1.3	n	n
						8899	1.3	n	n
	11	33:19	0.74	n	1.35	11919	2.3	n	n
						16007	2.2	n	n

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Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:1
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	1.63	of which	1.63	named and	* unnamed
Conc:	3.25	of which	3.25	named and	* unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,7,8,9-HxCDD	1	32:08	1.49	n	3.25	27312	6.1	y	n
						18344	1.4	n	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	11.87 of which	8.11 named and	3.77	unnamed
Conc:	23.75 of which	16.21 named and	7.54	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:54	1.89	n	13.73	188731	17.4	y	n
						100045	17.1	y	n
	2	34:16	0.87	n	5.08	36179	4.1	y	n
						41563	6.9	y	n
	3	35:02	1.45	n	2.45	24314	2.3	n	n
						16778	1.7	n	n
1,2,3,4,7,8,9-HpCDF	4	35:09	2.10	n	2.48	33388	3.2	y	n
						15868	2.7	n	n

See 8A

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	14.32 of which	4.49 named and	9.84	unnamed
Conc:	28.65 of which	8.98 named and	19.67	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:13	0.82	n	7.02	34512	5.6	y	n
						42026	8.0	y	n
1,2,3,4,6,7,8-HpCDD	2	34:50	1.10	y	8.98	45311	6.4	y	n
						41230	6.0	y	n
	3	35:00	1.42	n	8.18	54936	7.0	y	n
						38654	5.5	y	n
	4	35:08	1.27	n	3.33	20023	2.4	n	n
						15728	3.0	n	n
	5	36:01	0.49	n	1.14	5600	1.0	n	n
						11455	1.8	n	n

Run Text: L5LAP-1-AA Sample text: L5LAP-1-AA :G0H140454-1

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? yes #Hom:4
Run: 11 File: 16AU10B1D5 S:45 Acq:18-AUG-10 00:26:17
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16au10b1

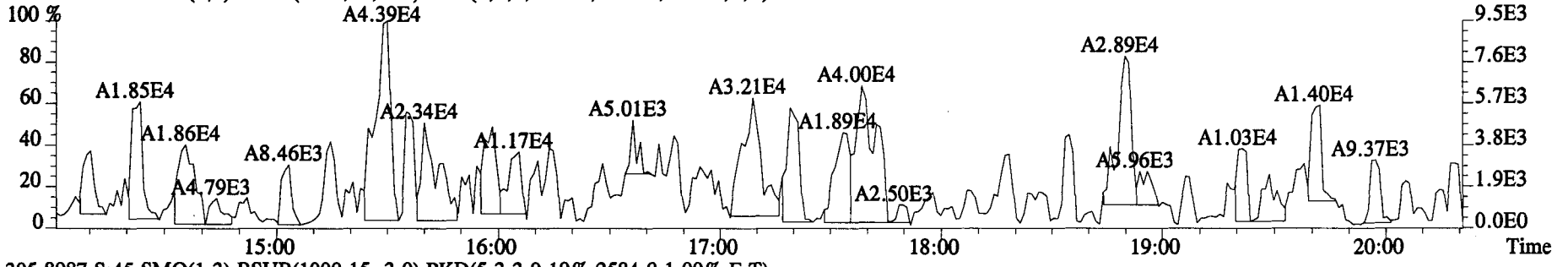
Amount:	9.995 of which	6.227 named and	3.768 unnamed
Conc:	19.990 of which	12.454 named and	7.535 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:55	1.310 n	9.976	95177	17.498	y	y
					72671	17.631	y	y
	2	34:16	0.870 n	5.083	36179	4.140	y	n
					41563	6.921	y	n
	3	35:02	1.449 n	2.452	24314	2.289	n	n
					16778	1.729	n	n
1,2,3,4,7,8,9-HpCDF	4	35:09	2.104 n	2.478	33389	3.193	y	n
					15868	2.727	n	n

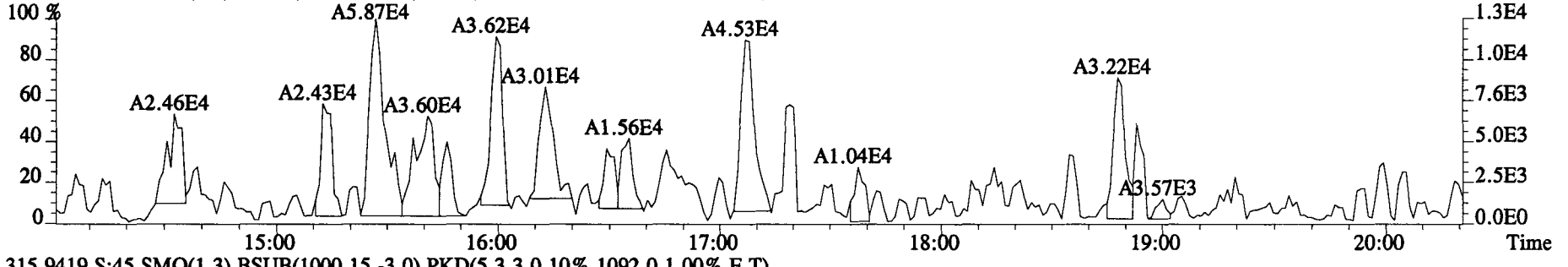
15.055

File:16AU10B1D5 #1-373 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

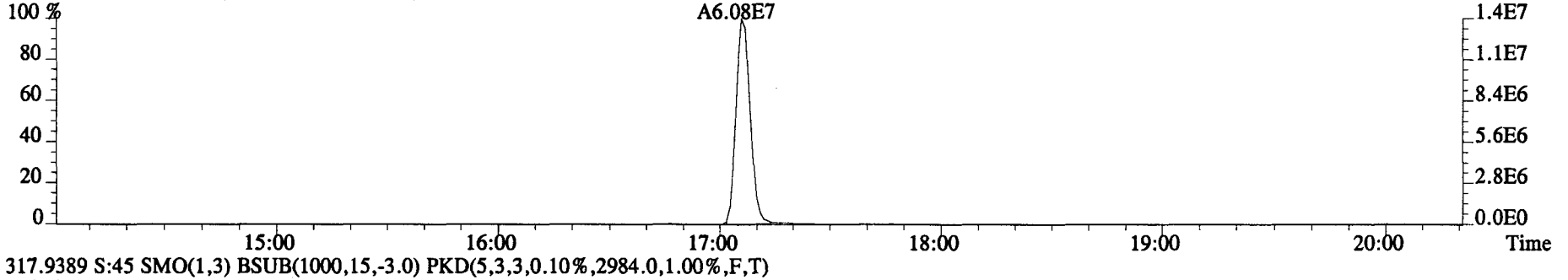
303.9016 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1856.0,1.00%,F,T)



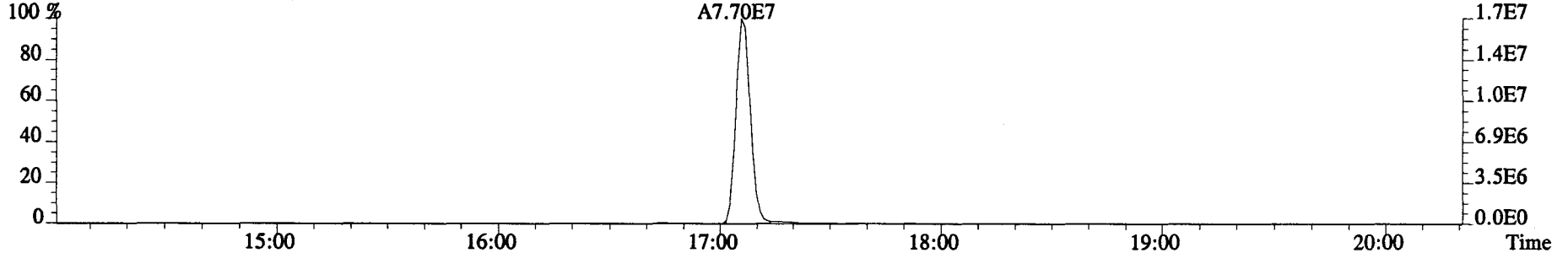
305.8987 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2584.0,1.00%,F,T)



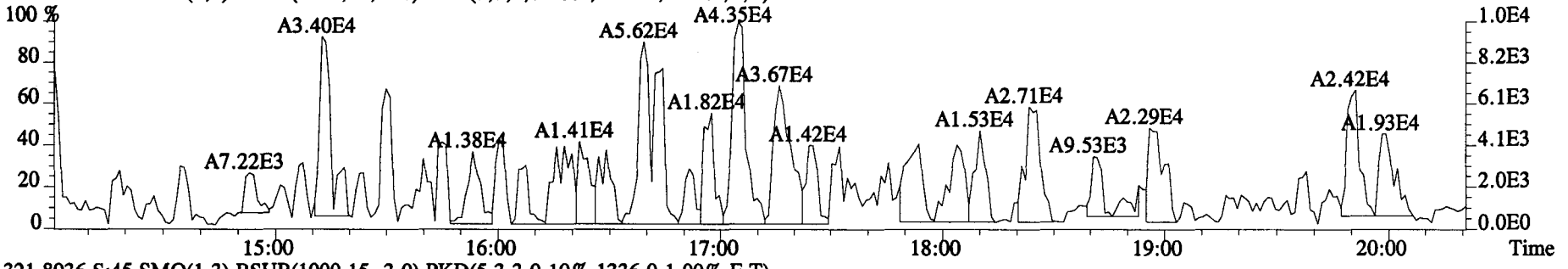
315.9419 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1092.0,1.00%,F,T)



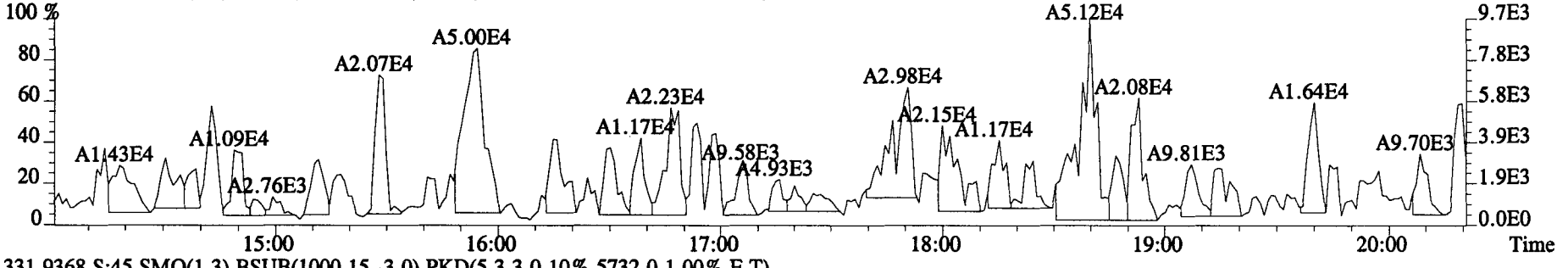
317.9389 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2984.0,1.00%,F,T)



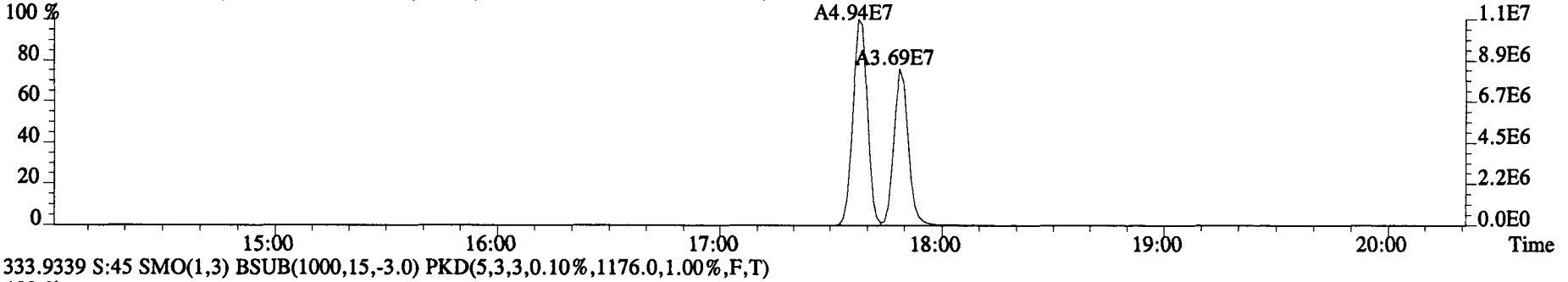
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
319.8965 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1604.0,1.00%,F,T)



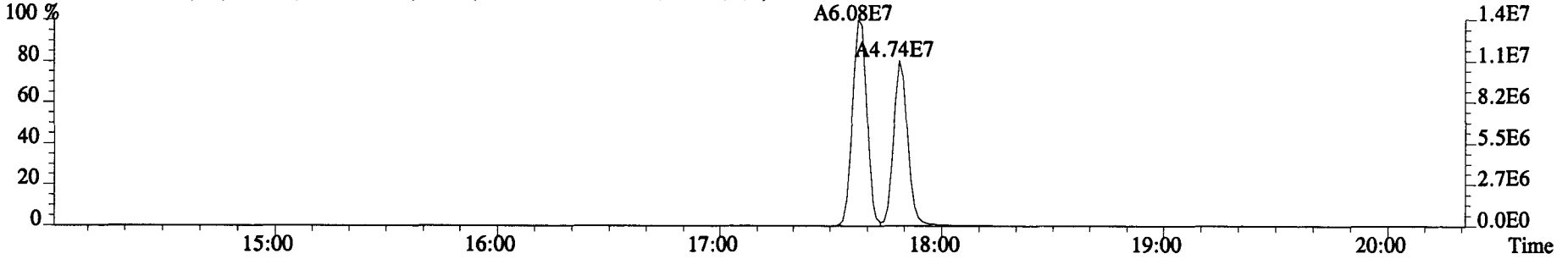
321.8936 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



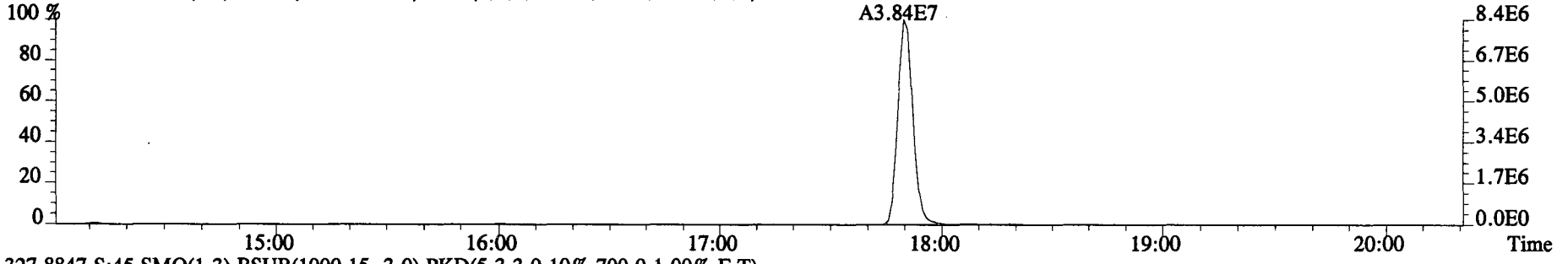
331.9368 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5732.0,1.00%,F,T)



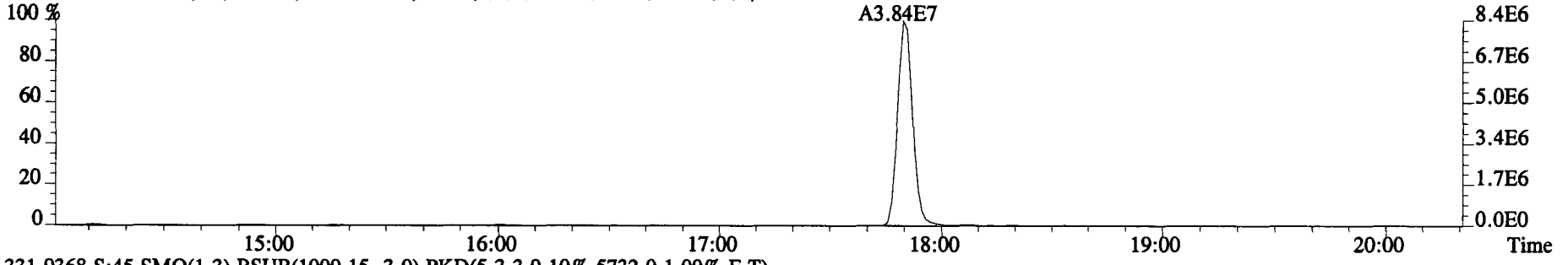
333.9339 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)



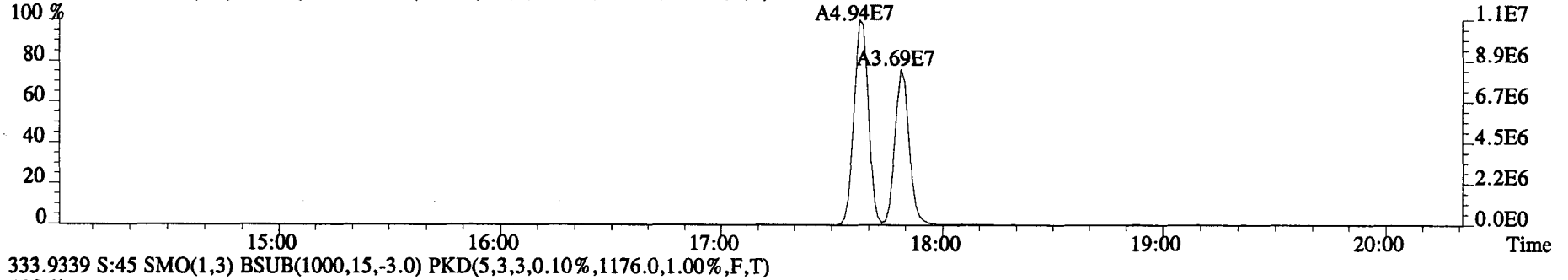
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
327.8847 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)



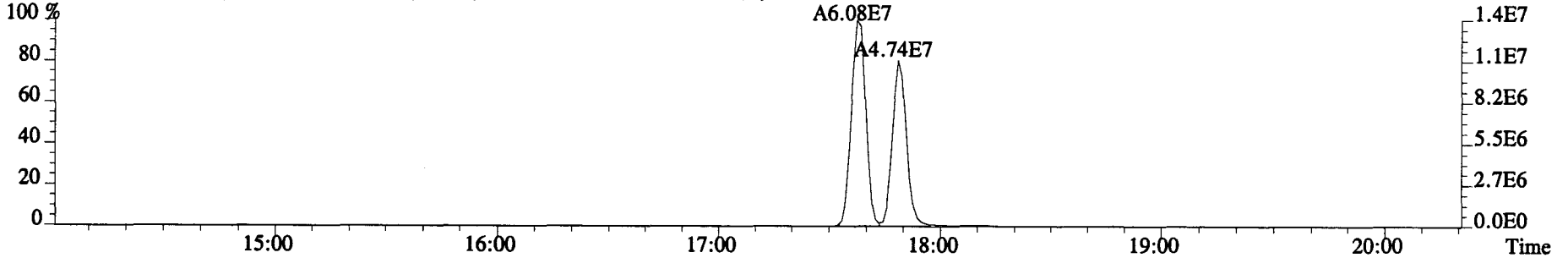
327.8847 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)



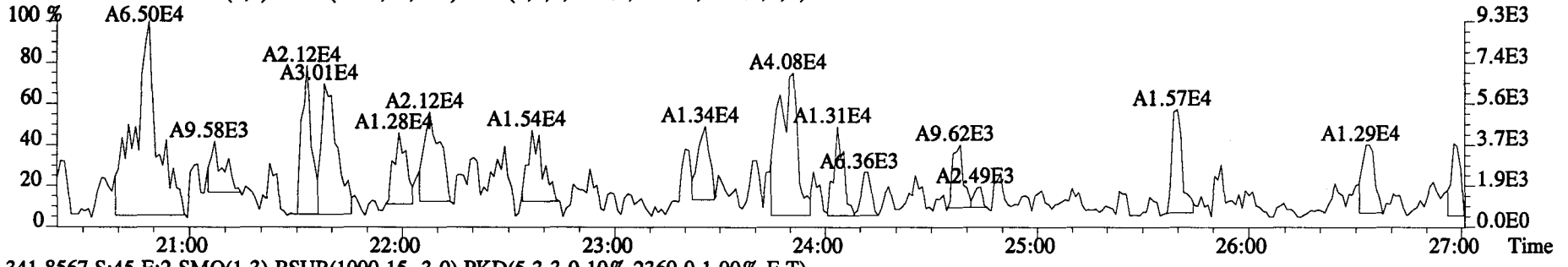
331.9368 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5732.0,1.00%,F,T)

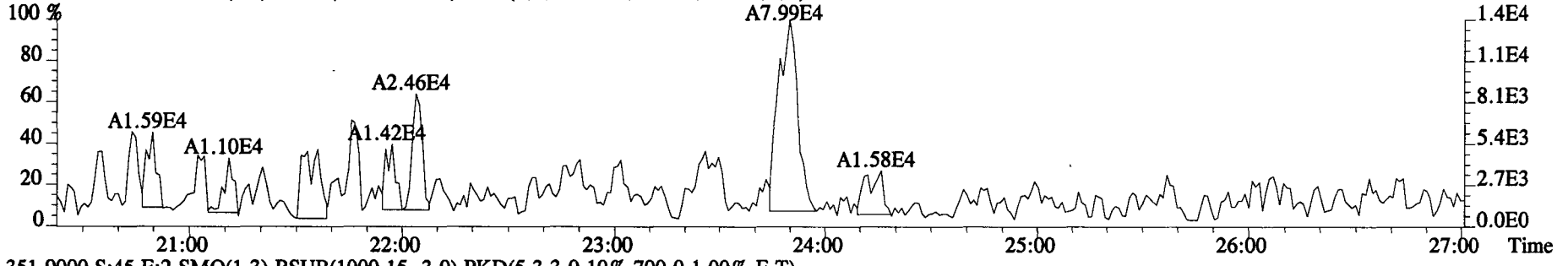


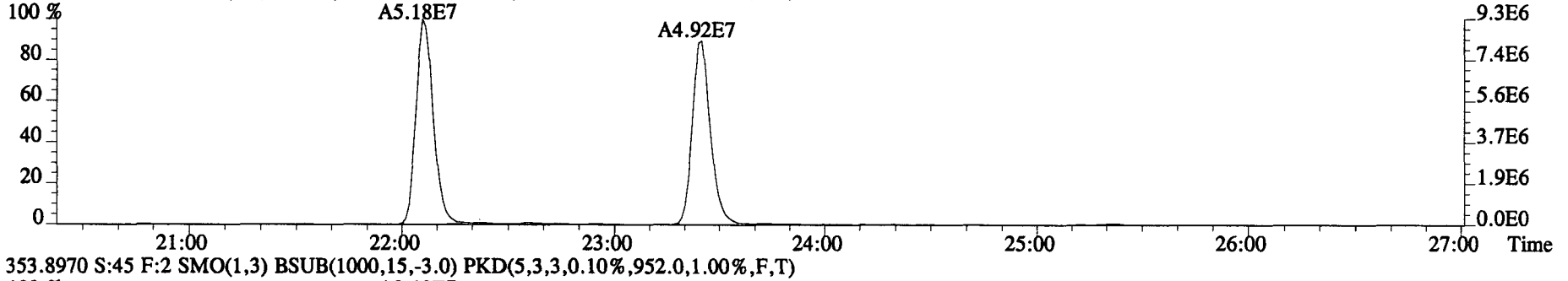
333.9339 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)

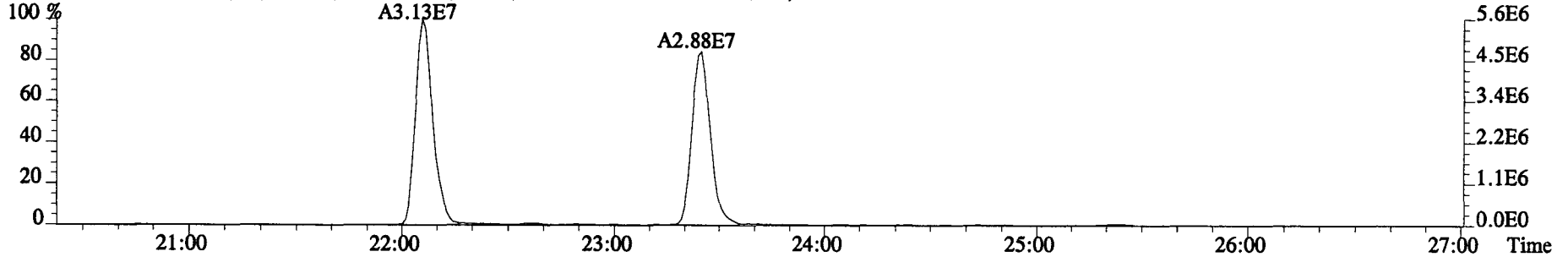


File:16AU10B1D5 #1-414 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

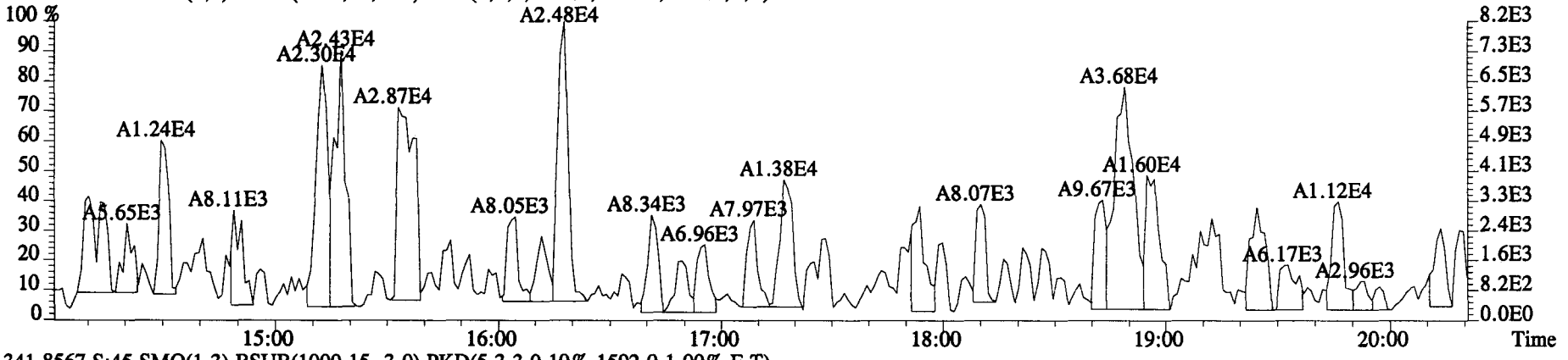




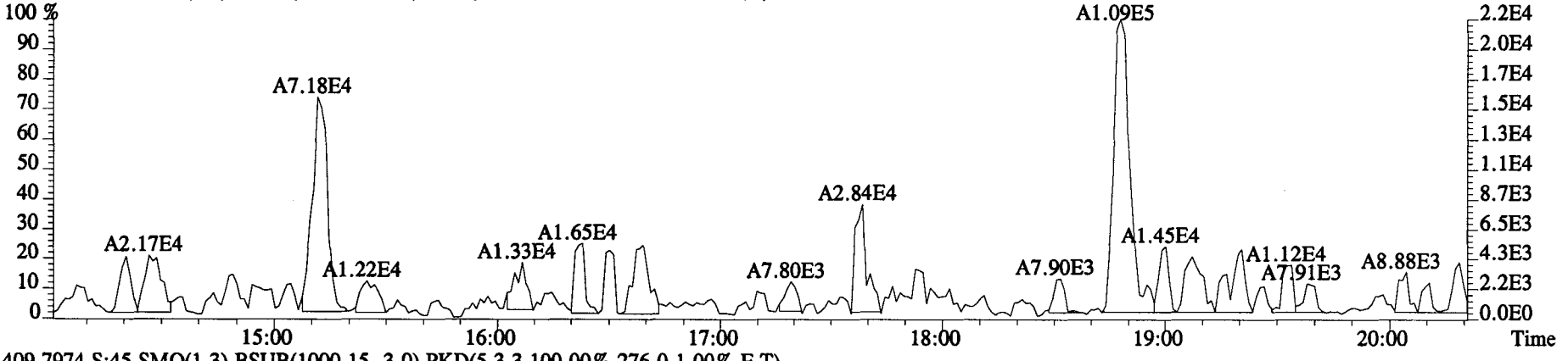




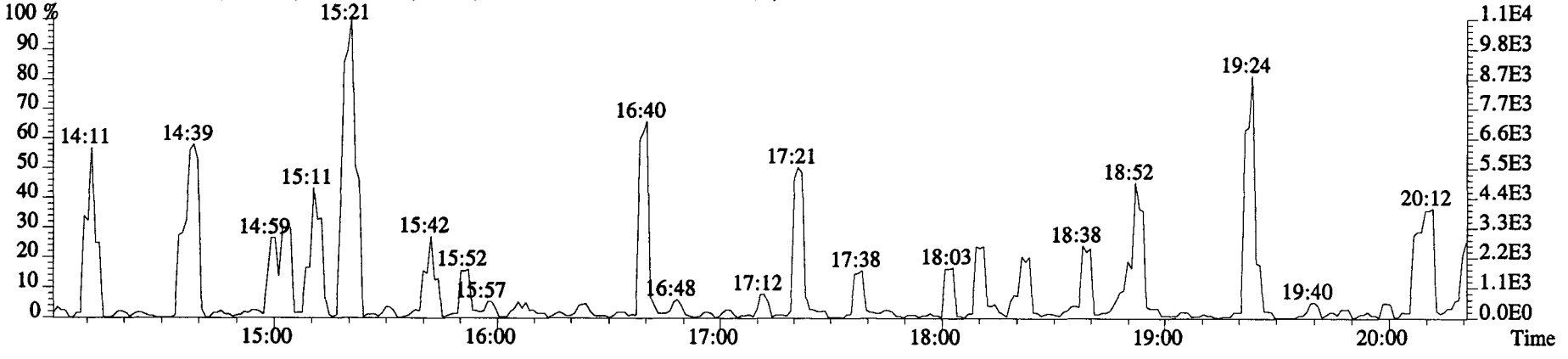
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
339.8597 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)



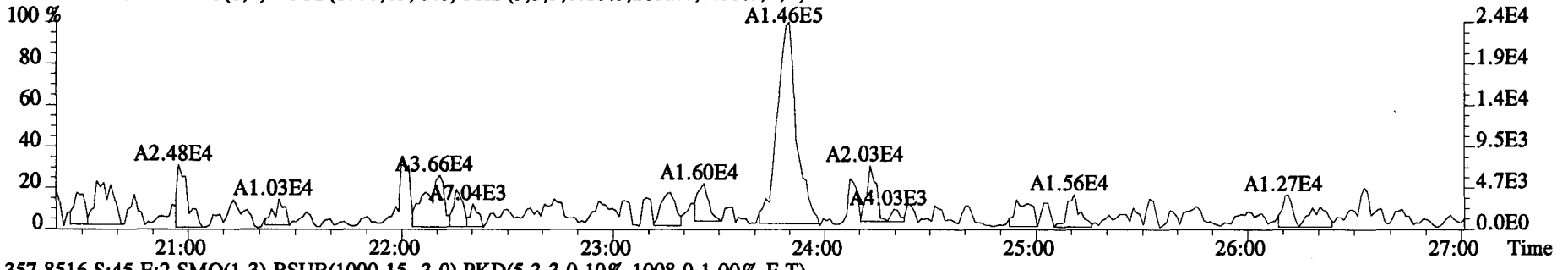
341.8567 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)

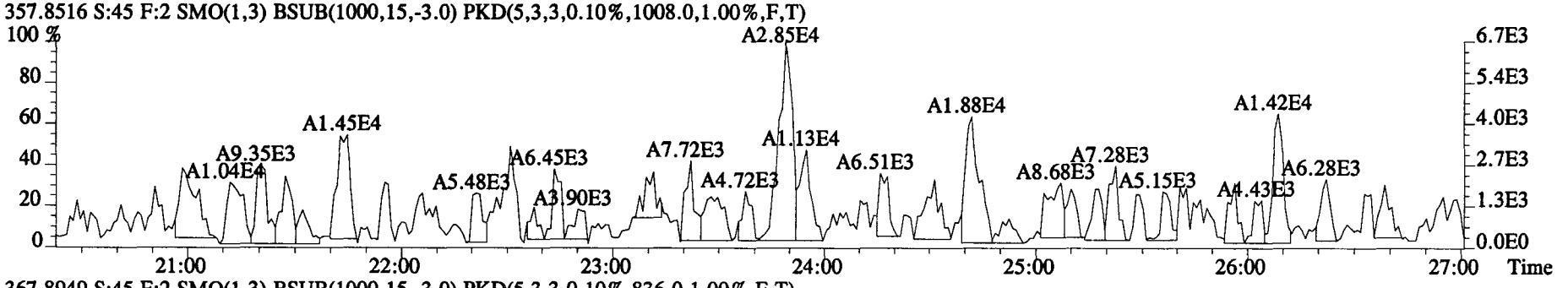


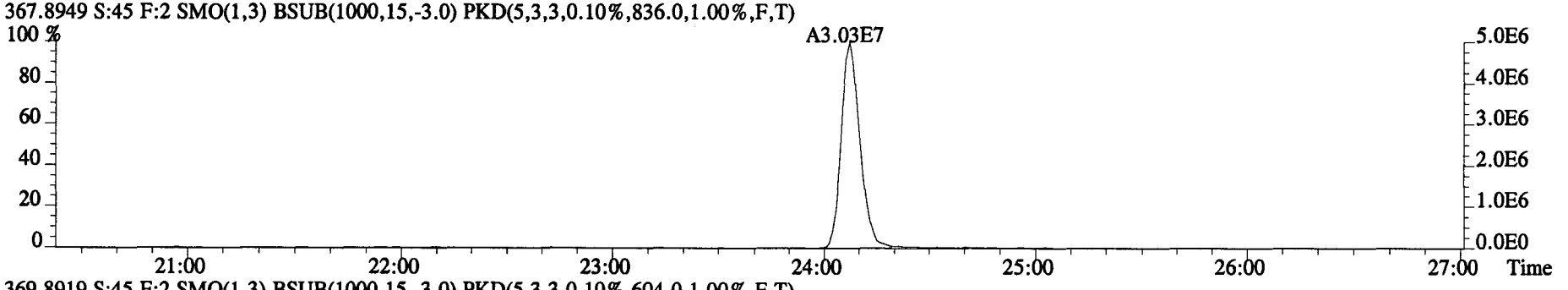
409.7974 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,276.0,1.00%,F,T)

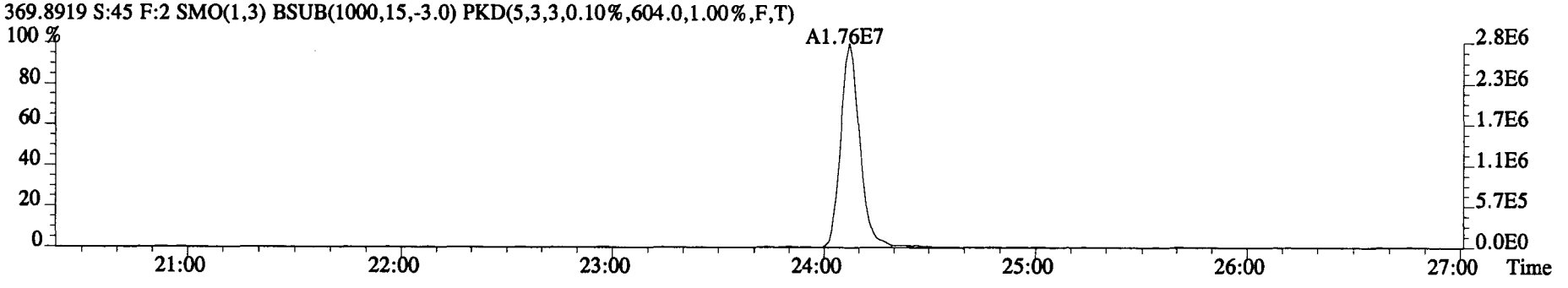


File:16AU10B1D5 #1-414 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES



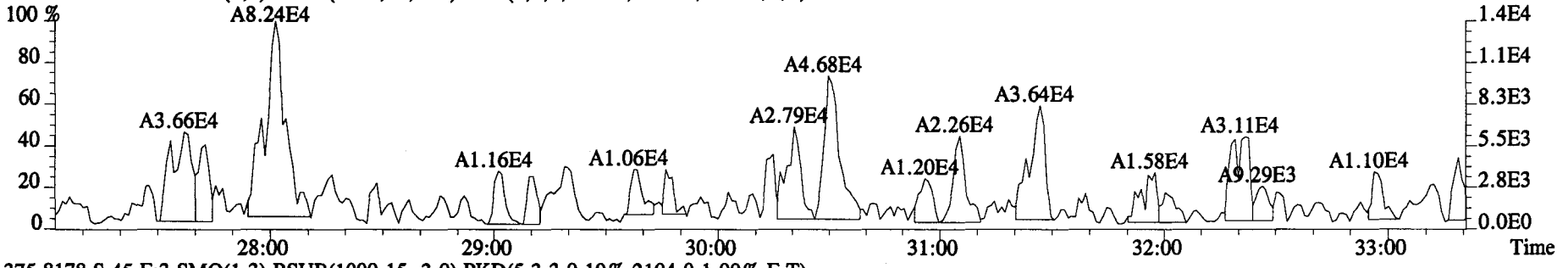




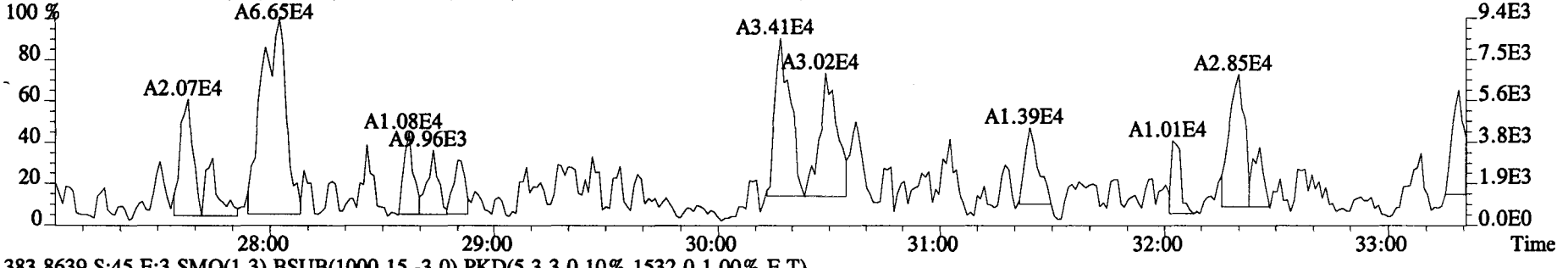


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

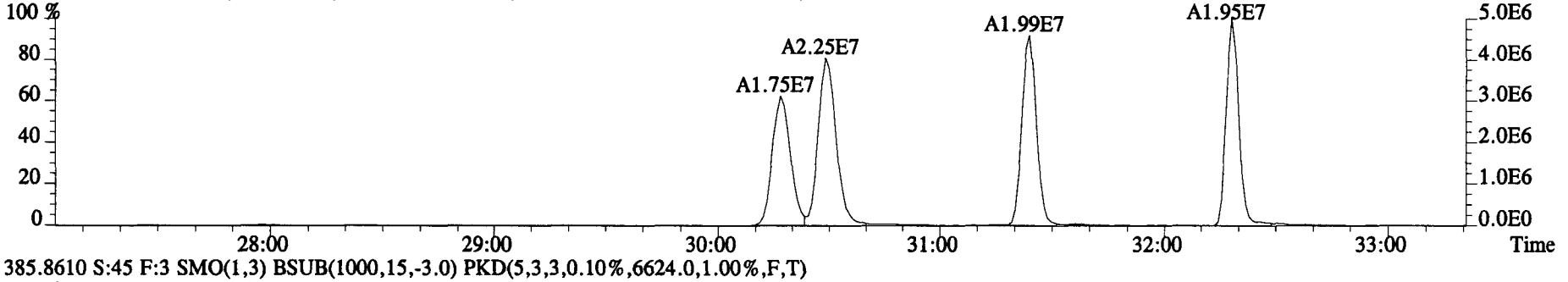
373.8208 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)



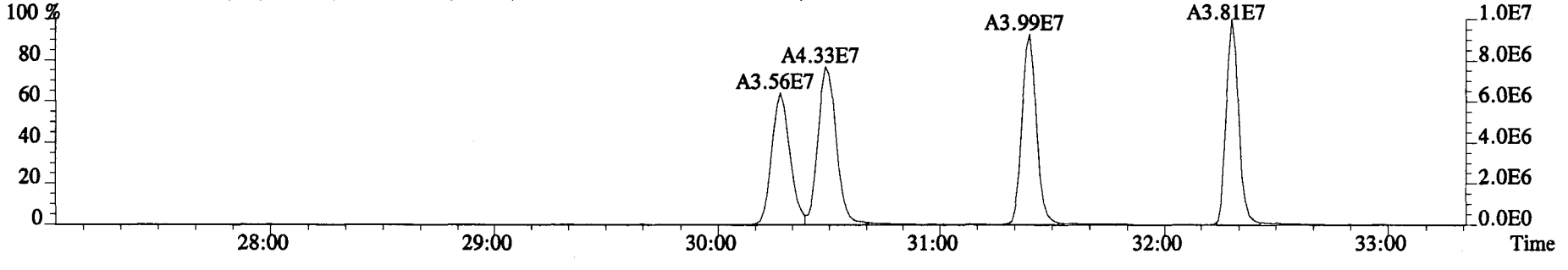
375.8178 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2104.0,1.00%,F,T)



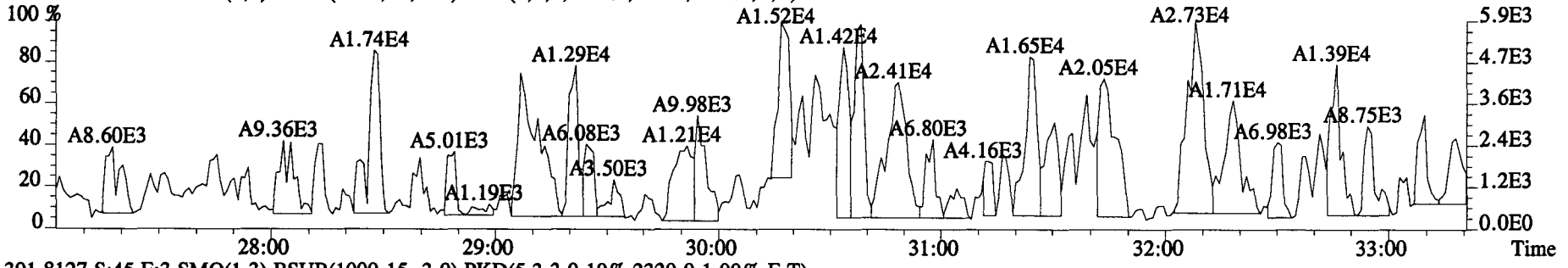
383.8639 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)



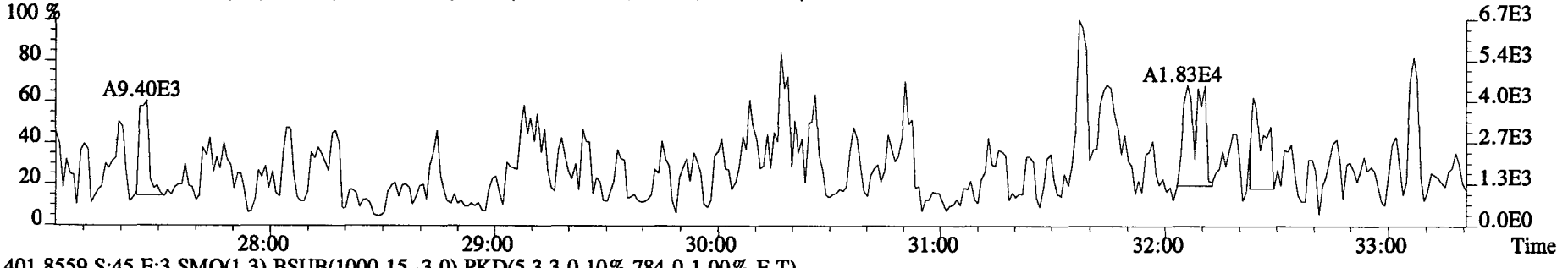
385.8610 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6624.0,1.00%,F,T)



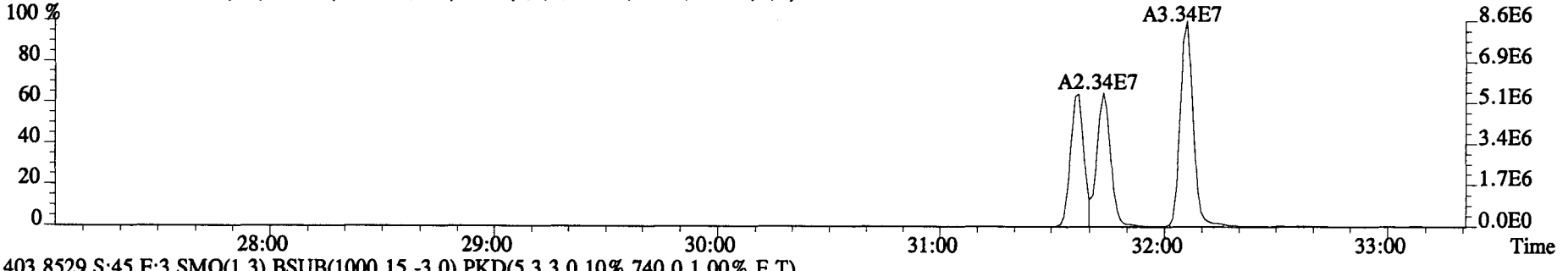
File:16AU10B1D5 #1-406 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
389.8157 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,896.0,1.00%,F,T)



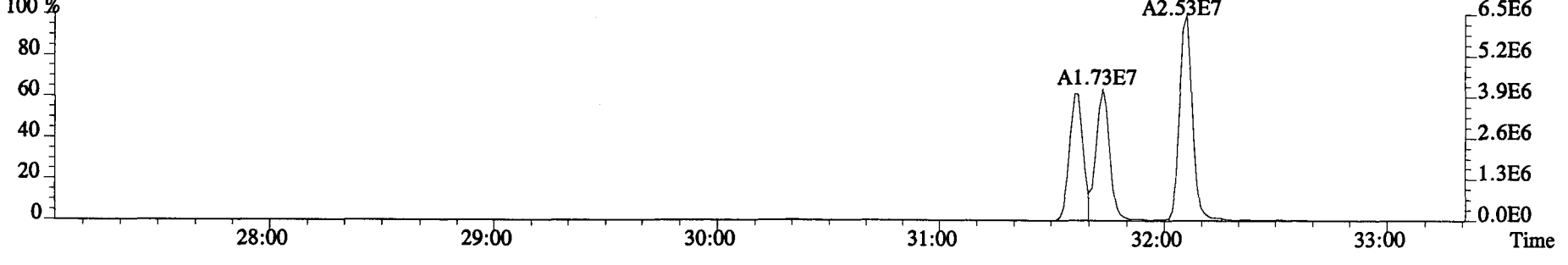
391.8127 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2320.0,1.00%,F,T)



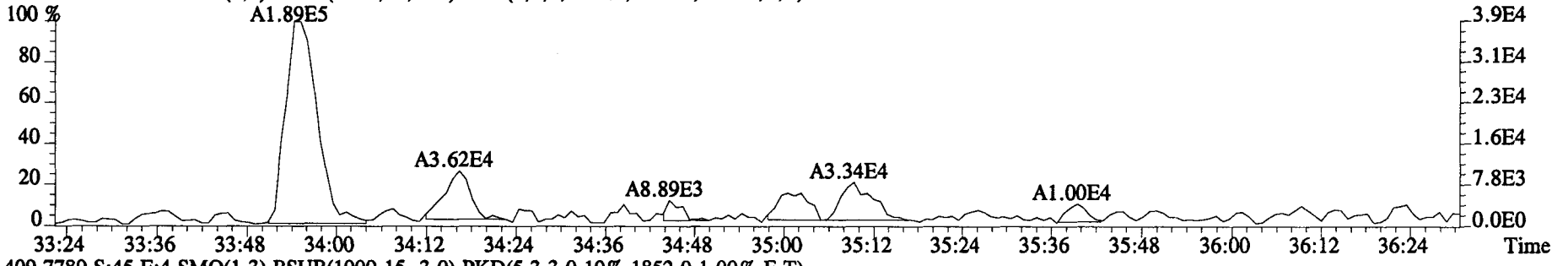
401.8559 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



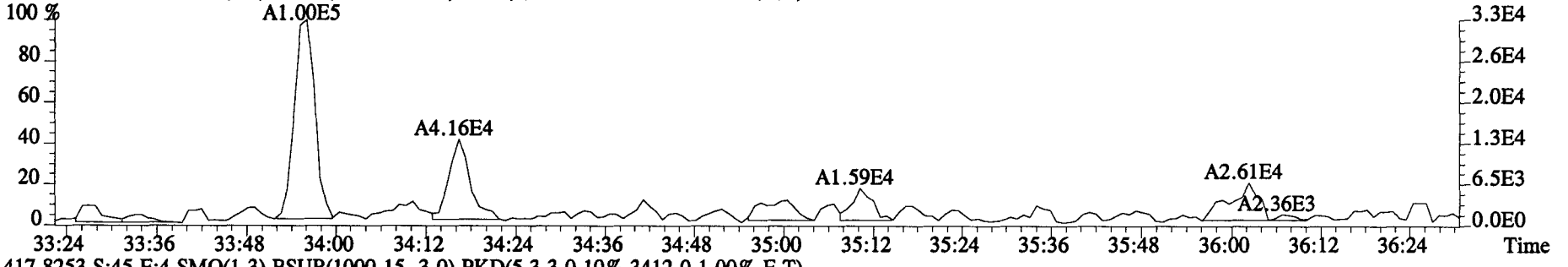
403.8529 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,740.0,1.00%,F,T)



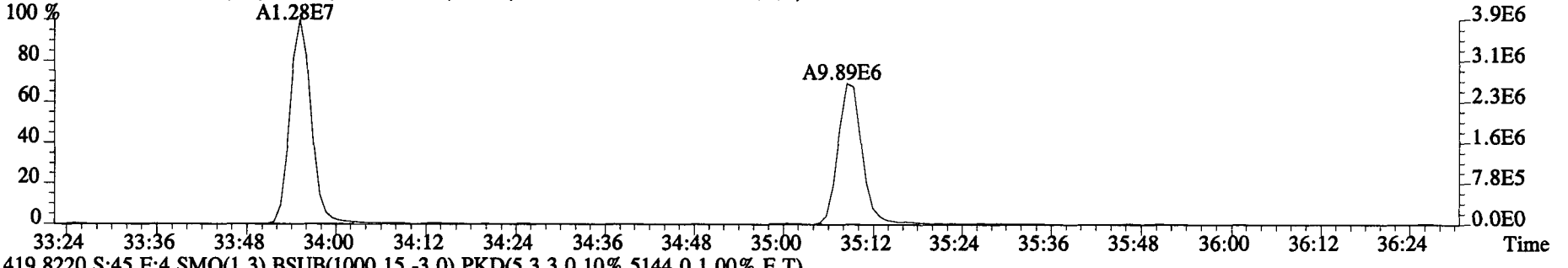
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
407.7818 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2204.0,1.00%,F,T)



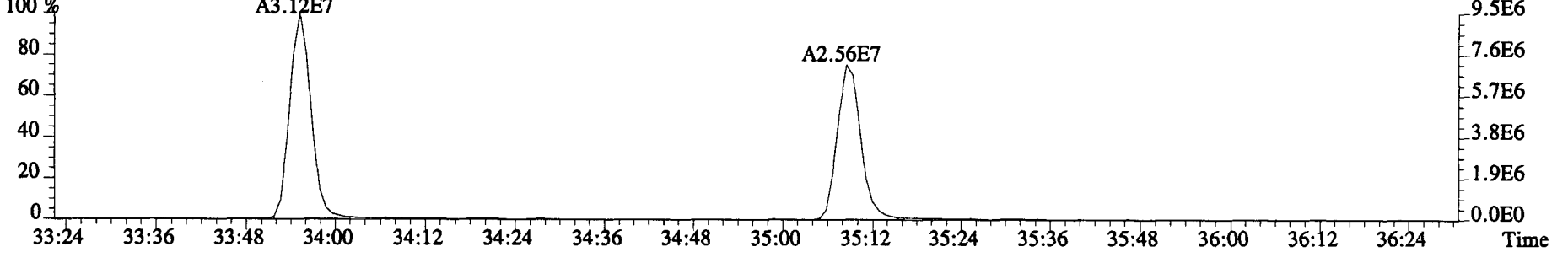
409.7789 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T)



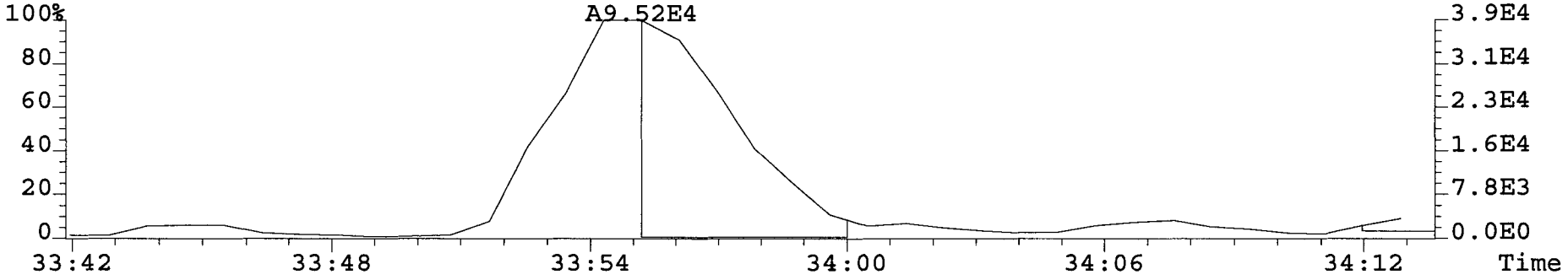
417.8253 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412.0,1.00%,F,T)



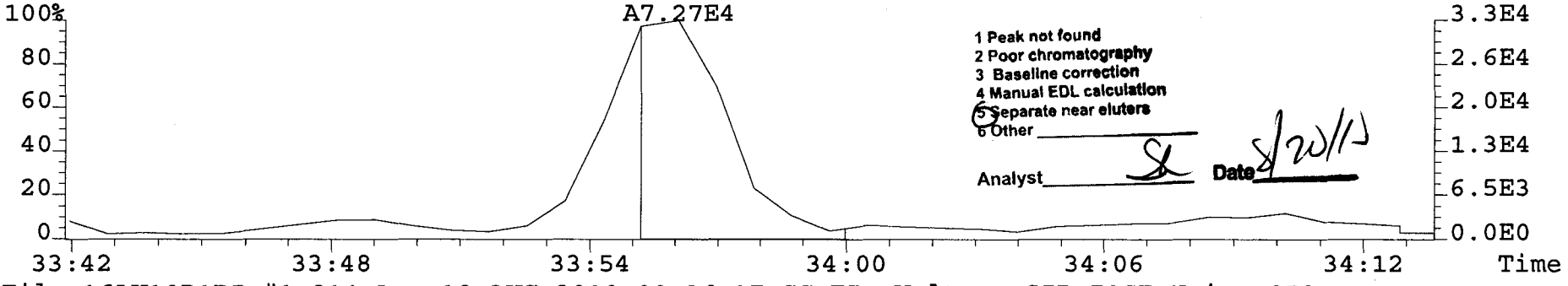
419.8220 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5144.0,1.00%,F,T)



File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE Noise:551
407.7818 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2204.0,1.00%,F,T) Exp:DIOXINRES
Sample Text:L5LAP-1-AA :G0H140454-1



File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE Noise:463
409.7789 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T) Exp:DIOXINRES
Sample Text:L5LAP-1-AA :G0H140454-1

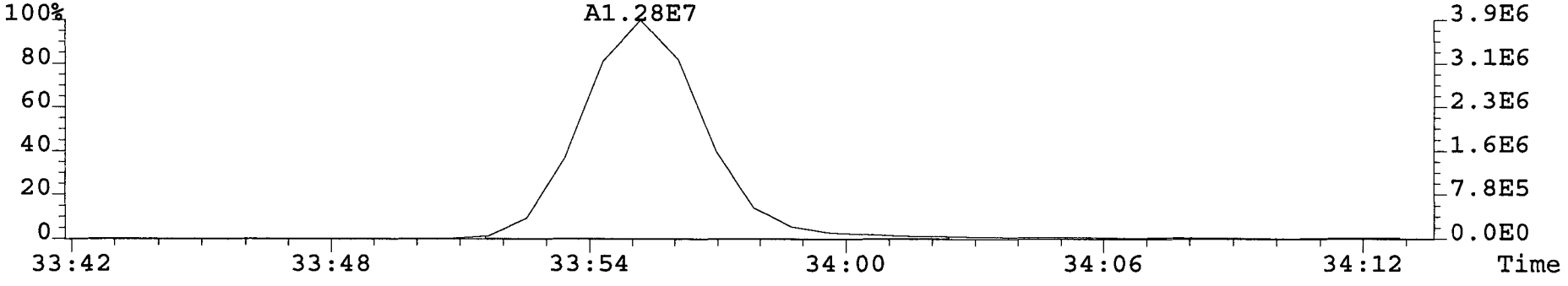


Manual Edit Codes

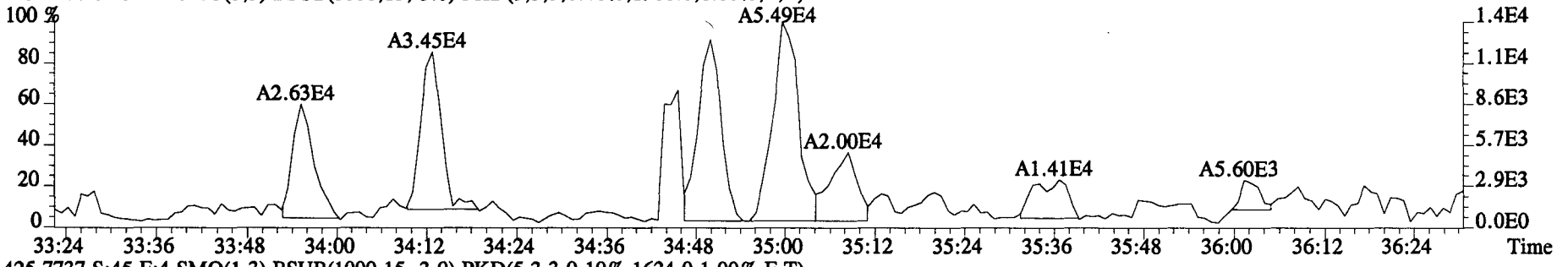
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst _____ Date 8/20/12

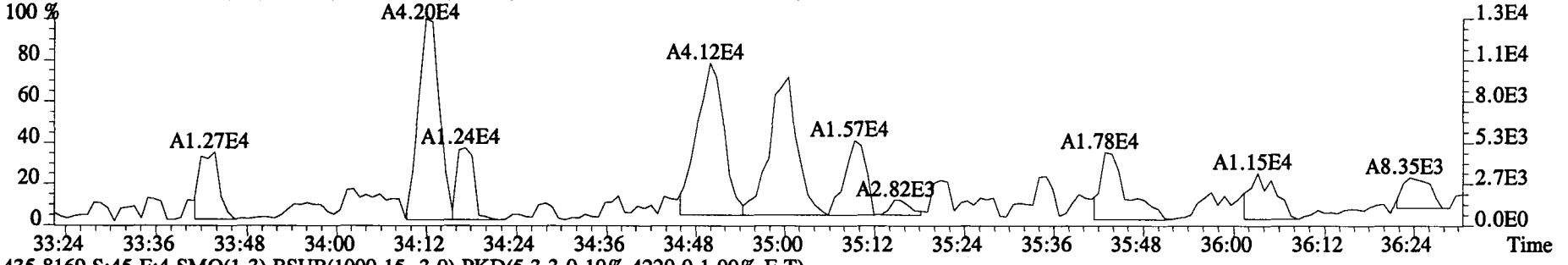
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE Noise:853
417.8253 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412.0,1.00%,F,T) Exp:DIOXINRES
Sample Text:L5LAP-1-AA :G0H140454-1



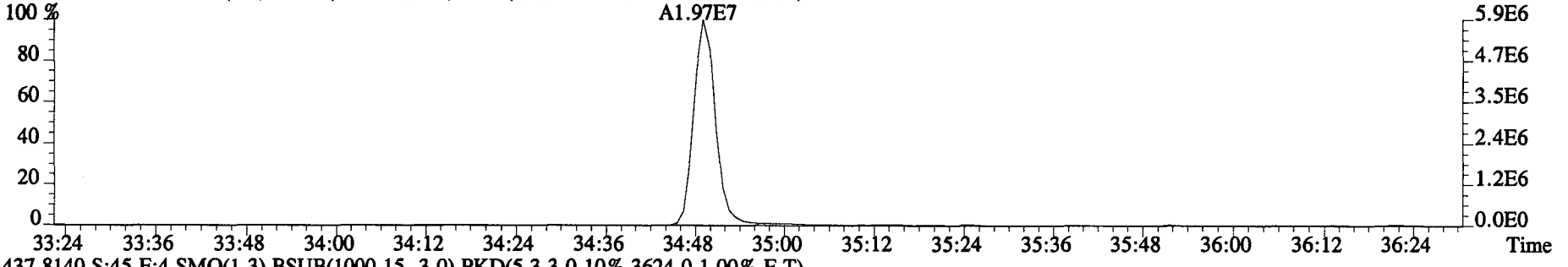
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
423.7766 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1968.0,1.00%,F,T)



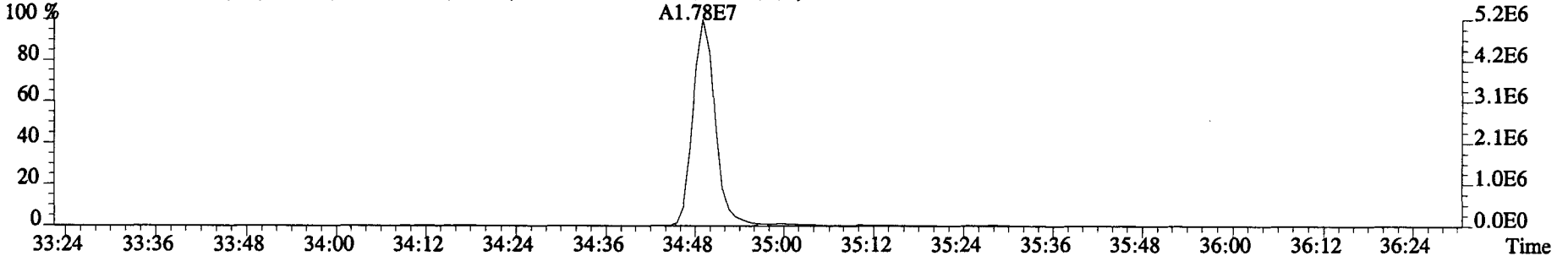
425.7737 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)



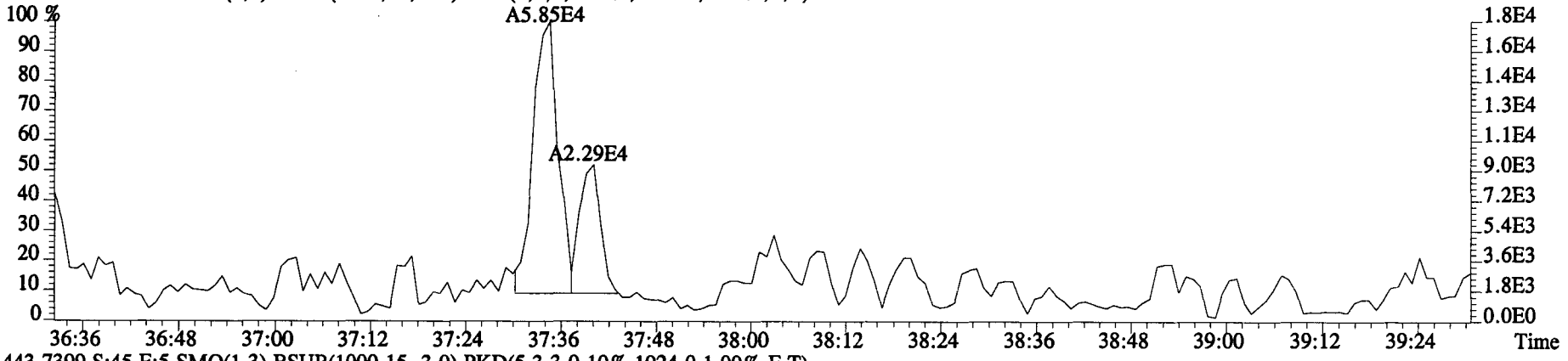
435.8169 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4220.0,1.00%,F,T)



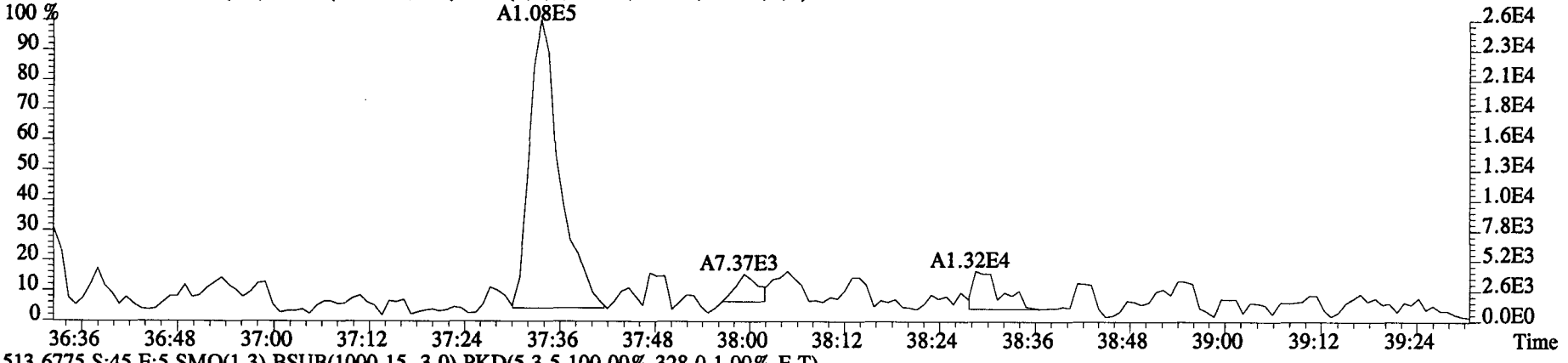
437.8140 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3624.0,1.00%,F,T)



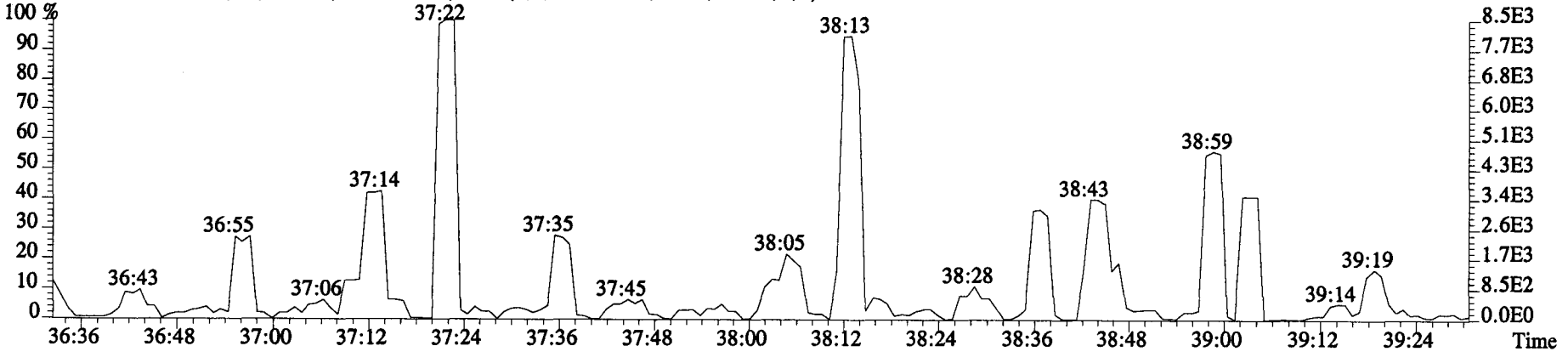
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
441.7428 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2728.0,1.00%,F,T)



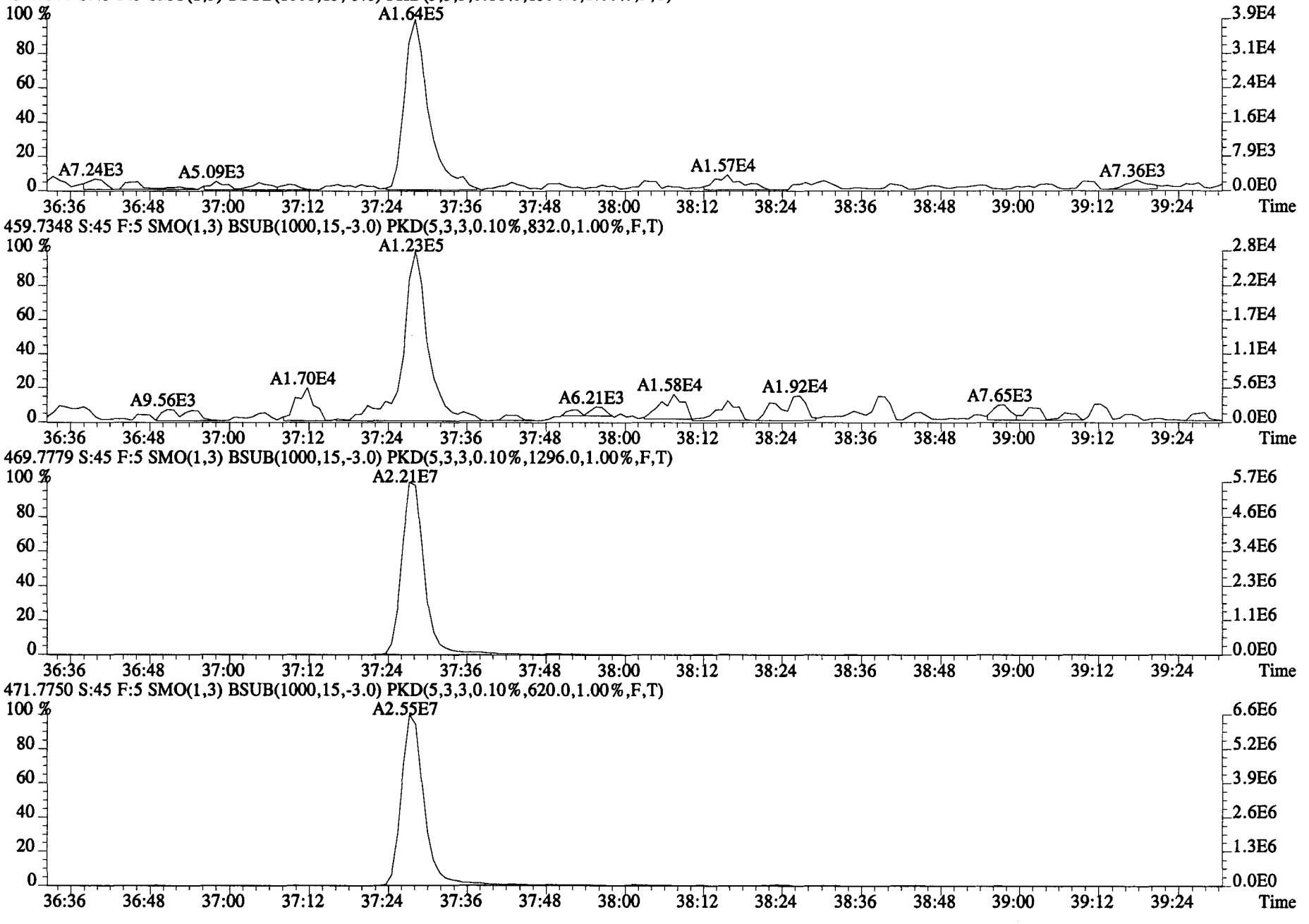
443.7399 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1924.0,1.00%,F,T)



513.6775 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,328.0,1.00%,F,T)

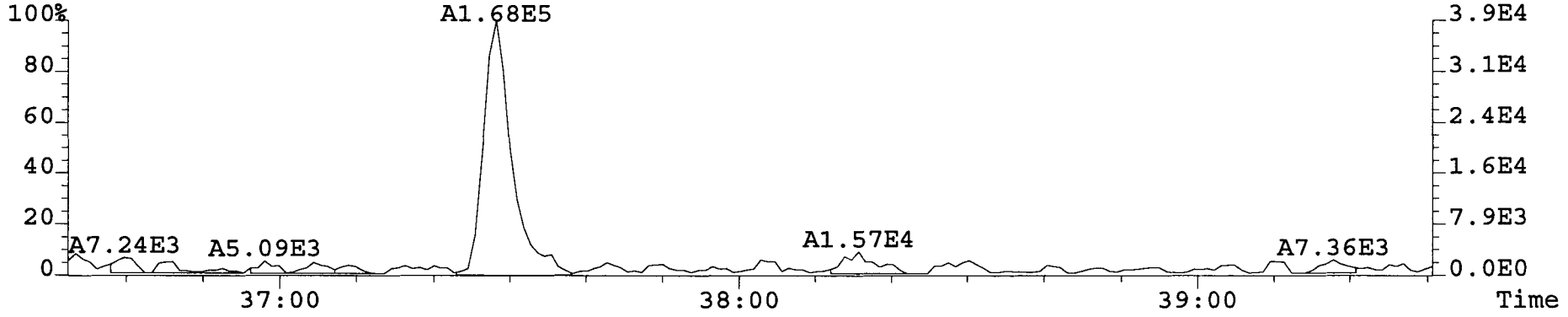


File:16AU10B1D5 #1-196 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

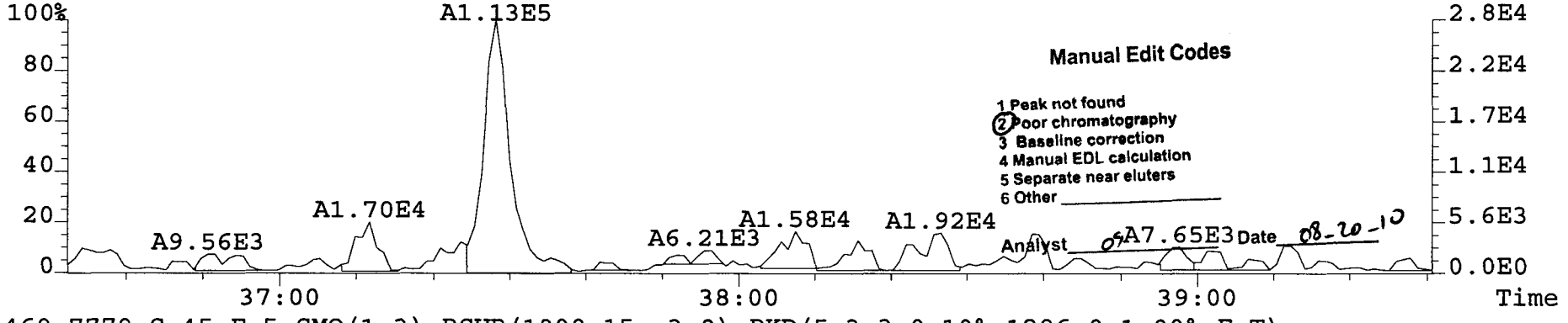


File:16AU10B1D5 #1-196 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

457.7377 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356.0,1.00%,F,T)



459.7348 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T)

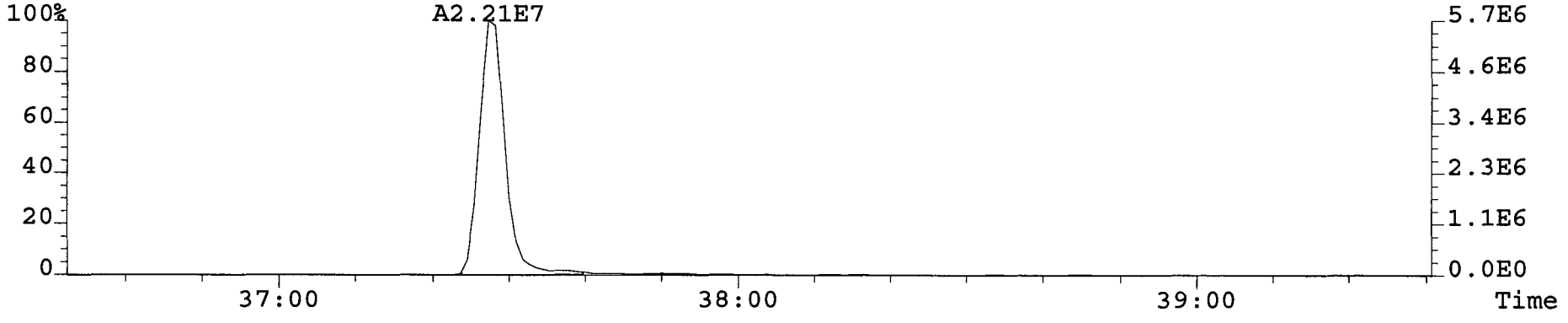


Manual Edit Codes

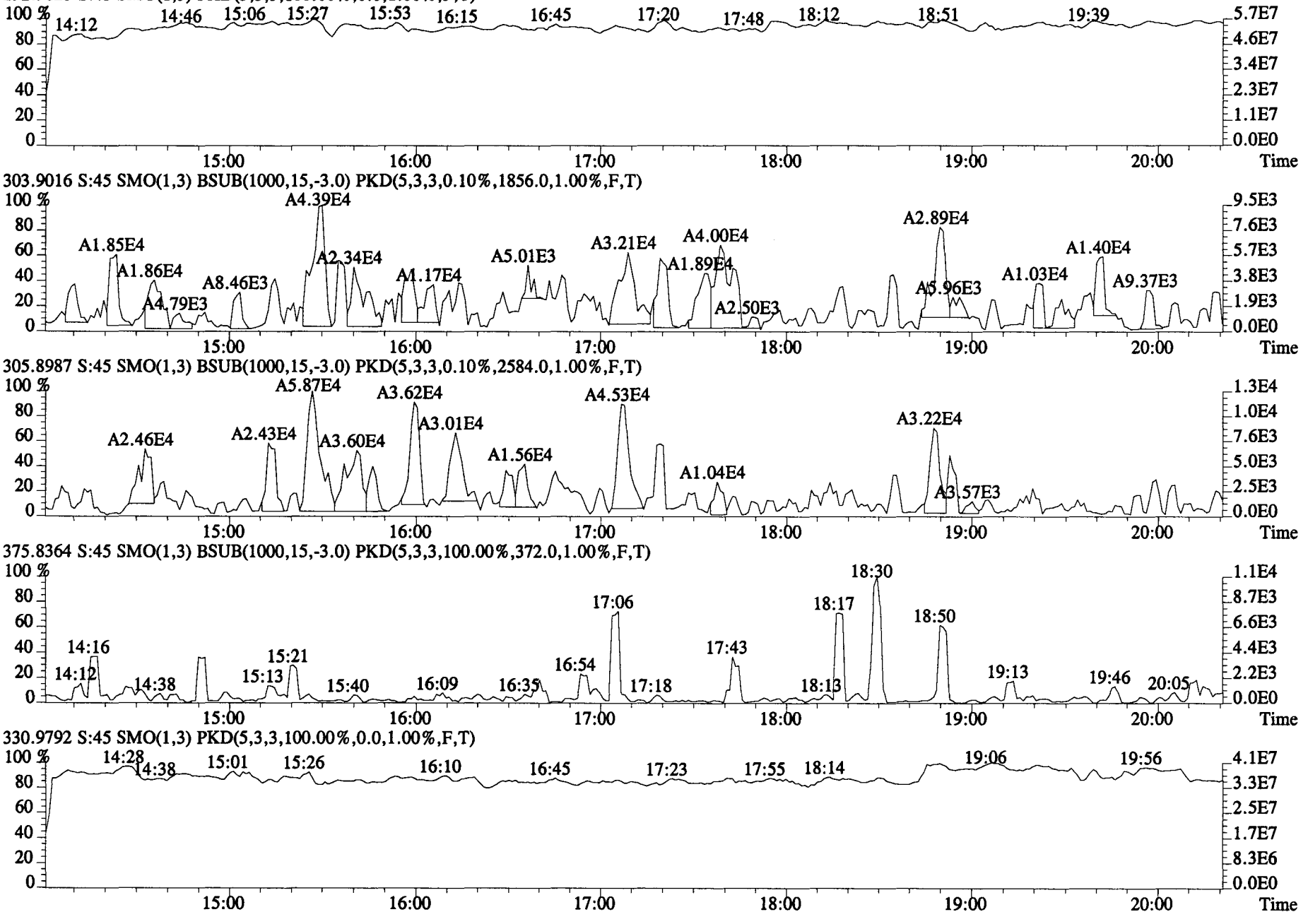
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst _____ Date 08-20-10

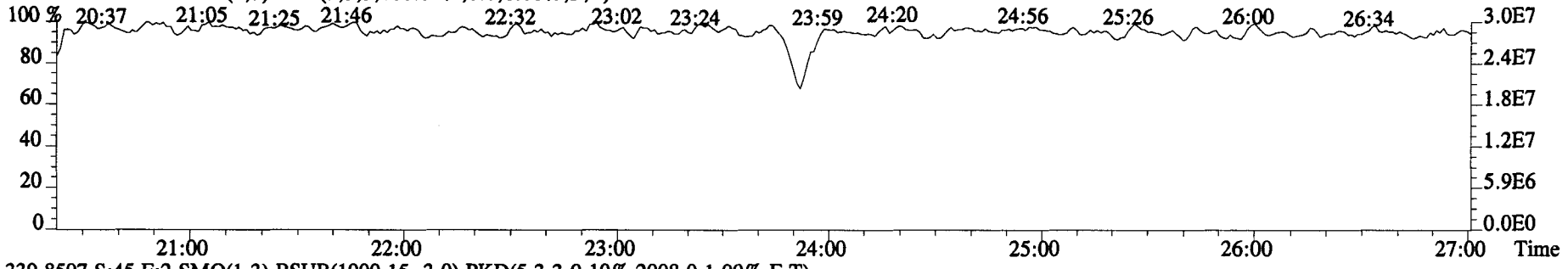
469.7779 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1296.0,1.00%,F,T)



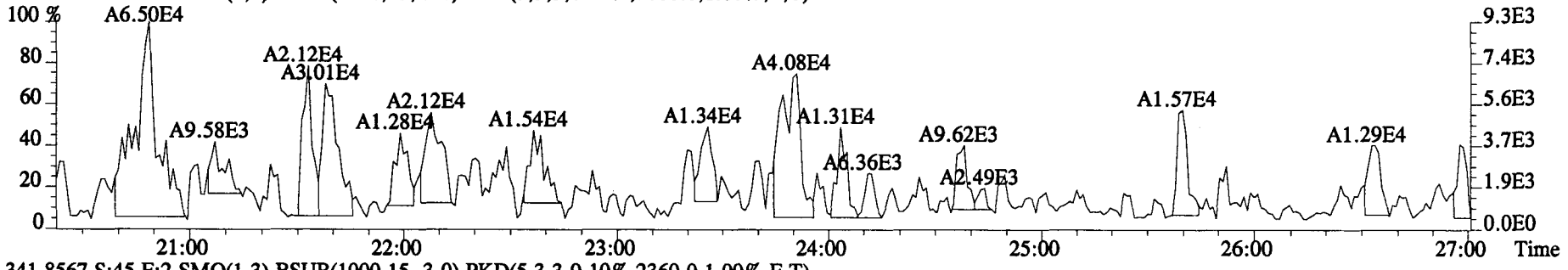
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES



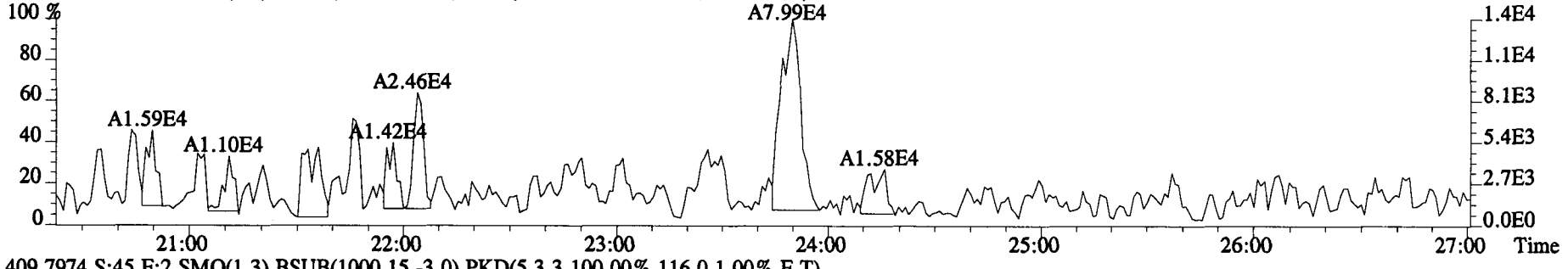
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
342.9792 S:45 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



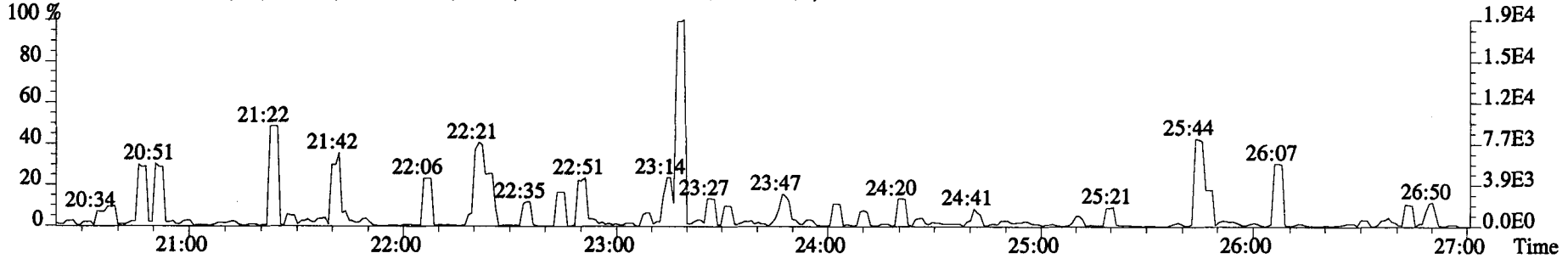
339.8597 S:45 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2008.0,1.00%,F,T)



341.8567 S:45 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2360.0,1.00%,F,T)

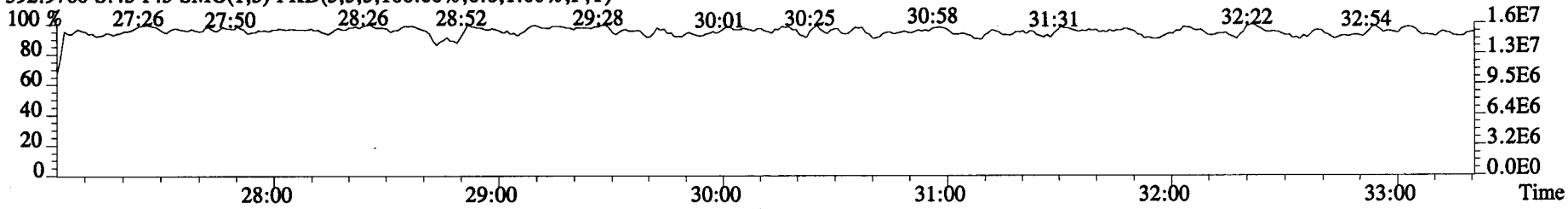


409.7974 S:45 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,116.0,1.00%,F,T)

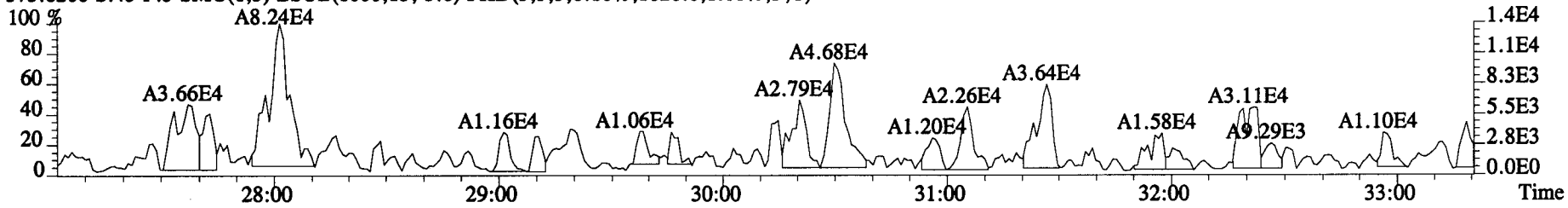


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES

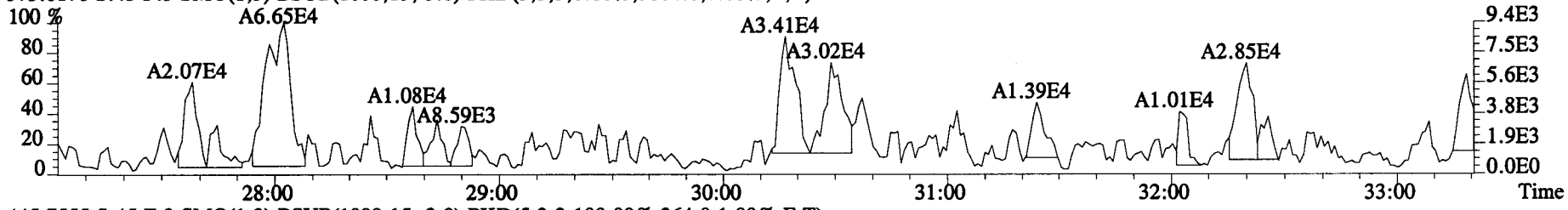
392.9760 S:45 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



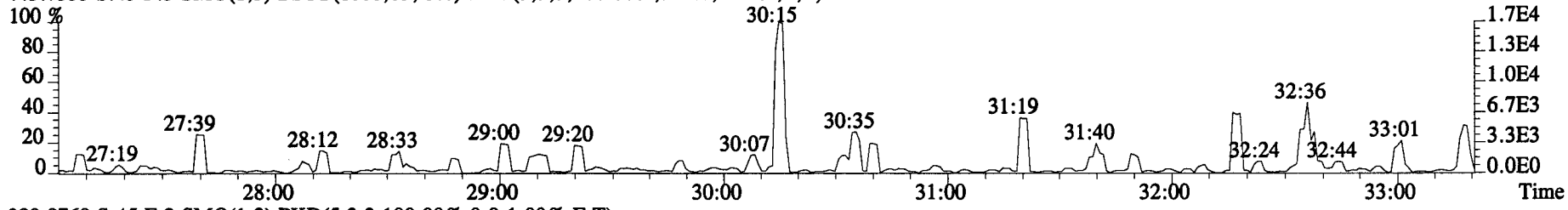
373.8208 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)



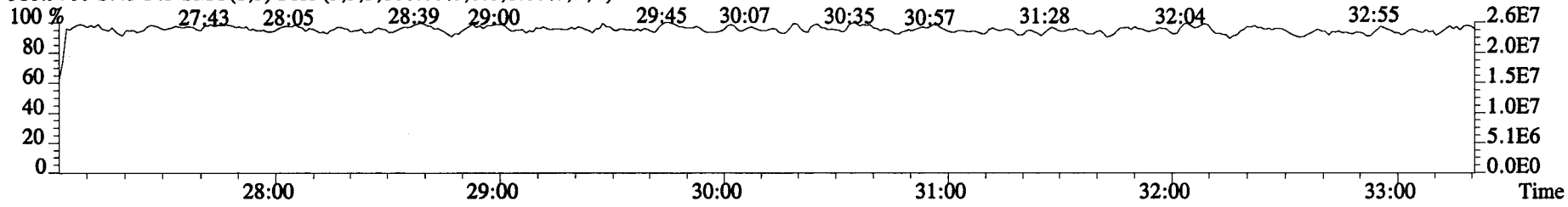
375.8178 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2104.0,1.00%,F,T)



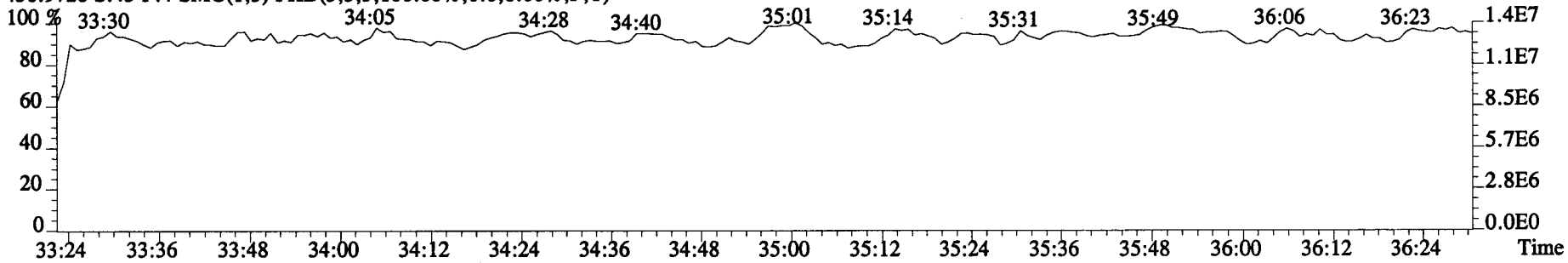
445.7555 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,364.0,1.00%,F,T)



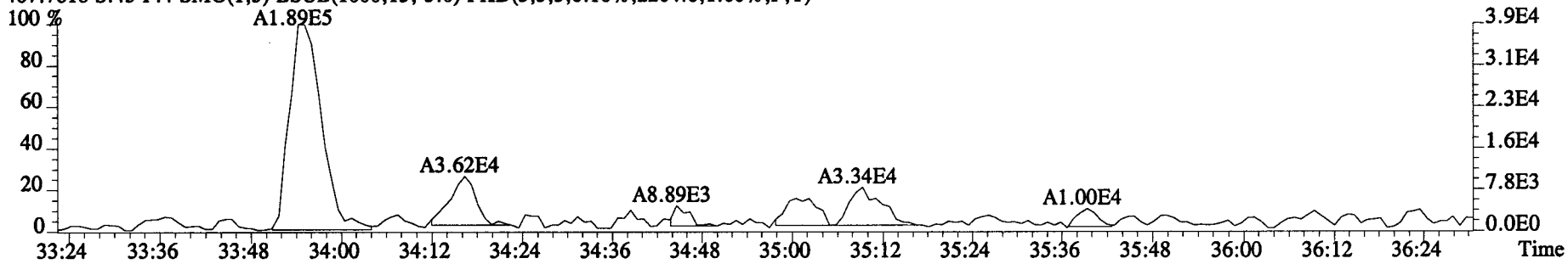
380.9760 S:45 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



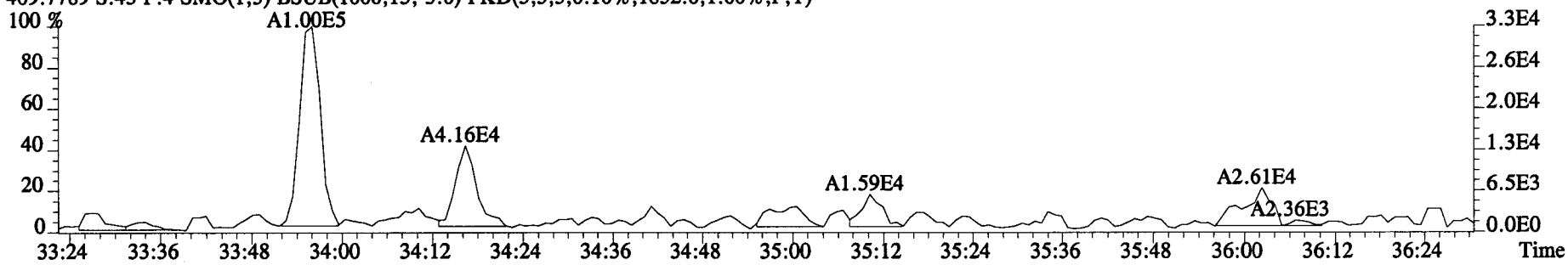
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
430.9728 S:45 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



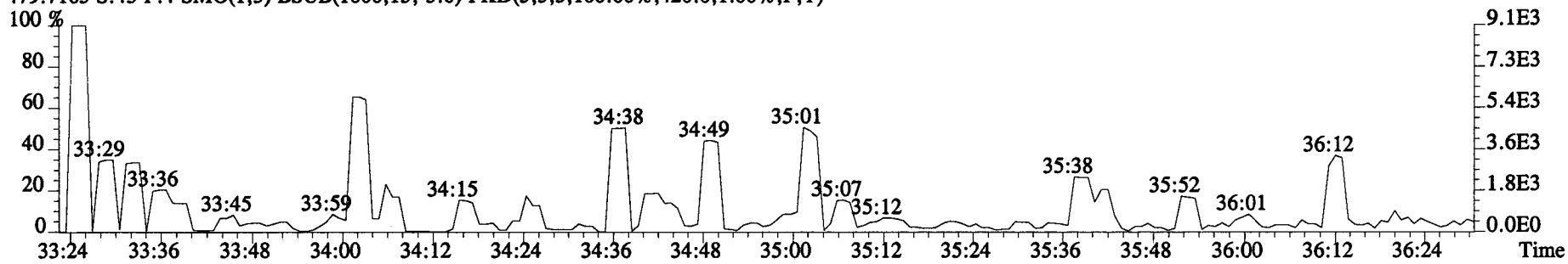
407.7818 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2204.0,1.00%,F,T)



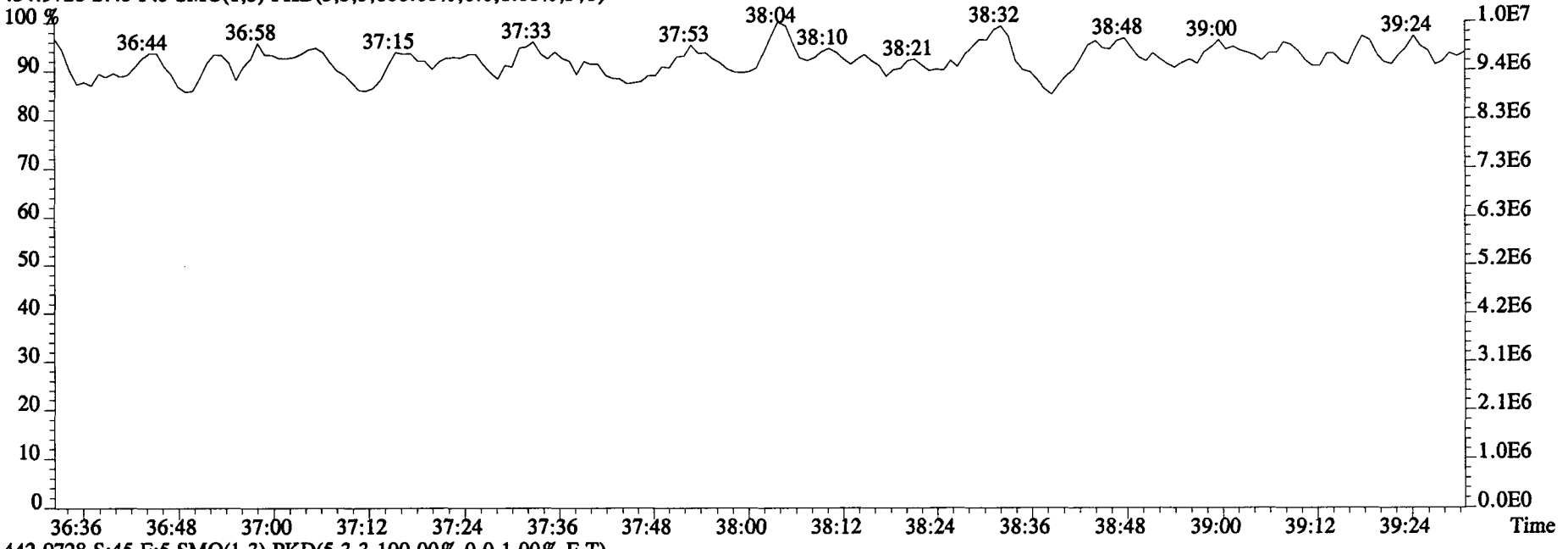
409.7789 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T)



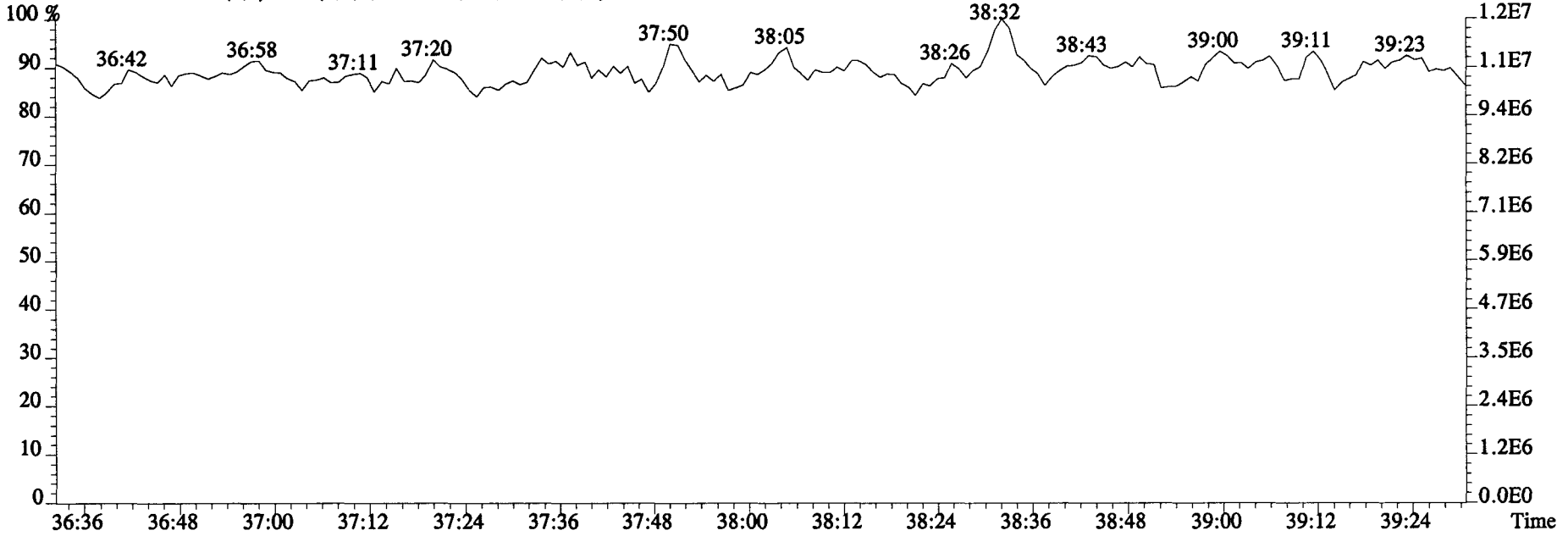
479.7165 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,420.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 00:26:17 GC EI+ Voltage SIR 70SE
Sample#45 Text:L5LAP-1-AA :G0H140454-1 Exp:DIOXINRES
454.9728 S:45 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:45 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2
Run #12 Filename: 16AU10B1D5 S: 46 I: 1 Results: 16AU10B1D5TO9os
Acquired: 18-AUG-10 01:10:16 Processed: 18-AUG-10 10:46:50
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

as 08-20-10 SL 8/20/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	99420100	0.79	y	17:37	-	52.822	-	-	n
13C-2,3,7,8-TCDF	115255000	0.80	y	17:06	1.56	2969.280	0.402	74.2	n
2,3,7,8-TCDF	517880	0.66	y	17:08	0.87	~~20.541~~	2.209	-	n
Total TCDF	2850733	0.53	n	14:40	0.87	~~113.071~~ 108.5	2.209	-	n
13C-2,3,7,8-TCDD	78769600	0.81	y	17:49	0.94	3388.281	3.456	84.7	n
2,3,7,8-TCDD	13051	0.73	y	17:52	0.96	~~0.692~~	2.240	-	n
Total TCDD	279733	1.08	n	14:18	0.96	~~14.839~~	2.240	-	n
37Cl-2,3,7,8-TCDD	74153400	1.00	y	17:50	1.22	3096.143	1.025	96.8	n
13C-1,2,3,7,8-PeCDF	80287400	1.64	y	22:06	1.06	3041.800	3.016	76.0	n
1,2,3,7,8-PeCDF	236559	0.86	n	22:09	1.08	10.914 Q J	4.036	-	y
2,3,4,7,8-PeCDF	102072	2.07	n	23:26	0.98	5.188 J Q	4.447	-	n
Total F2 PeCDF	1681832	1.30	n	20:35	1.03	~~81.066~~ 69.06	4.232	-	y
Total F1 PeCDF	322194	0.56	n	14:36	1.03	~~15.583~~ 5.30	1.193	-	n
13C-1,2,3,7,8-PeCDD	41472200	1.68	y	24:08	0.65	2582.093	1.235	64.6	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	6.014	-	n
Total PeCDD	245010	1.06	n	21:00	0.92	~~25.553~~ 12.22 DL	6.014	-	n
13C-1,2,3,7,8,9-HxCDD	51044200	1.28	y	32:06	-	35.912	-	-	n
13C-1,2,3,4,7,8-HxCDF	48596500	0.50	y	30:17	0.99	3862.000	8.282	96.5	n
1,2,3,4,7,8-HxCDF	360800	1.12	y	30:19	1.15	25.746 J	4.770	-	y
1,2,3,6,7,8-HxCDF	316416	0.92	n	30:31	1.24	20.955 Q J	4.427	-	y
2,3,4,6,7,8-HxCDF	41523	3.51	n	31:25	1.22	~~2.807~~	4.519	-	n
1,2,3,7,8,9-HxCDF	70172	1.17	y	32:20	1.19	4.874 J	4.643	-	n
Total HxCDF	2059538	1.20	y	27:39	1.20	~~141.555~~ 134.315	4.586	-	y
13C-1,2,3,6,7,8-HxCDD	36256000	1.30	y	31:44	0.77	3699.860	1.781	92.5	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	4.718	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	4.386	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.24	*	3.907	-	n
Total HxCDD	144968	2.48	n	28:43	1.13	~~14.205~~	~~4.311~~ 4.718	-	n
13C-1,2,3,4,6,7,8-HpCDF	40401900	0.42	y	33:55	0.98	3227.619	6.570	80.7	n
1,2,3,4,6,7,8-HpCDF	1194165	1.18	y	33:56	1.35	87.599 J	2.683	-	n
1,2,3,4,7,8,9-HpCDF	324678	1.36	n	35:11	1.19	27.099 Q J	3.053	-	y
Total HpCDF	2095331	1.18	y	33:56	1.27	~~159.712~~ 156.002	2.856	-	y
13C-1,2,3,4,6,7,8-HpCDD	32576800	1.08	y	34:50	0.81	3168.447	1.878	79.2	n
1,2,3,4,6,7,8-HpCDD	66521	1.19	y	34:50	1.03	7.958 J	4.303	-	n
Total HpCDD	195752	0.42	n	33:48	1.03	~~23.419~~ 13.98	4.303	-	n
13C-OCDD	36489000	0.88	y	37:28	0.62	4648.440	1.480	58.1	n
OCDF	1472821	0.77	y	37:35	1.44	223.472	6.664	-	n

OCDD	101236	0.95	y	37:29	1.09	20.356/	5.816	-	y

Run text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2
Run #12 Filename: 16AU10B1D5 S: 46 I: 1 Results: 16AU10B1D5TO9
Acquired: 18-AUG-10 01:10:16 Processed: 18-AUG-10 10:46:50
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	99420100	0.79	y	17:37	-	52.82	-	-	n
13C-2,3,7,8-TCDF	115255000	0.80	y	17:06	1.56	2969.28	0.40	74.2	n
2,3,7,8-TCDF	517880	0.66	y	17:08	0.87	20.54	2.21	-	n
Total TCDF	2850733	0.53	n	14:40	0.87	113.07	2.21	-	n
13C-2,3,7,8-TCDD	78769600	0.81	y	17:49	0.94	3388.28	3.46	84.7	n
2,3,7,8-TCDD	13051	0.73	y	17:52	0.96	0.69	2.24	-	n
Total TCDD	279733	1.08	n	14:18	0.96	14.84	2.24	-	n
37Cl-2,3,7,8-TCDD	74153400	1.00	y	17:50	1.22	3096.14	1.02	96.8	n
13C-1,2,3,7,8-PeCDF	80287400	1.64	y	22:06	1.06	3041.80	3.02	76.0	n
1,2,3,7,8-PeCDF	291715	0.94	n	22:09	1.08	13.46	4.04	-	n
2,3,4,7,8-PeCDF	102072	2.07	n	23:26	0.98	5.19	4.45	-	n
Total F2 PeCDF	1662427	1.30	n	20:35	1.03	80.00	4.23	-	n
Total F1 PeCDF	322194	0.56	n	14:36	1.03	15.58	1.19	-	n
13C-1,2,3,7,8-PeCDD	41472200	1.68	y	24:08	0.65	2582.09	1.24	64.6	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	6.01	-	n
Total PeCDD	245010	1.06	n	21:00	0.92	25.55	6.01	-	n
13C-1,2,3,7,8,9-HxCDD	51044200	1.28	y	32:06	-	35.91	-	-	n
13C-1,2,3,4,7,8-HxCDF	48596500	0.50	y	30:17	0.99	3862.00	8.28	96.5	n
1,2,3,4,7,8-HxCDF	475232	1.04	n	30:19	1.15	33.91	4.77	-	n
1,2,3,6,7,8-HxCDF	276234	0.84	n	30:31	1.24	18.29	4.43	-	n
2,3,4,6,7,8-HxCDF	41522	3.51	n	31:25	1.22	2.81	4.52	-	n
1,2,3,7,8,9-HxCDF	70172	1.17	y	32:20	1.19	4.87	4.64	-	n
Total HxCDF	1939281	1.20	y	27:39	1.20	133.71	4.59	-	n
13C-1,2,3,6,7,8-HxCDD	36256000	1.30	y	31:44	0.77	3699.86	1.78	92.5	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	4.72	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	4.39	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.24	*	3.91	-	n
Total HxCDD	144968	2.48	n	28:43	1.13	14.20	4.31	-	n
13C-1,2,3,4,6,7,8-HpCDF	40401900	0.42	y	33:55	0.98	3227.62	6.57	80.7	n
1,2,3,4,6,7,8-HpCDF	1194165	1.18	y	33:56	1.35	87.60	2.68	-	n
1,2,3,4,7,8,9-HpCDF	333424	1.31	n	35:11	1.19	27.83	3.05	-	n
Total HpCDF	2104077	1.18	y	33:56	1.27	160.44	2.86	-	n
13C-1,2,3,4,6,7,8-HpCDD	32576800	1.08	y	34:50	0.81	3168.45	1.88	79.2	n
1,2,3,4,6,7,8-HpCDD	66521	1.19	y	34:50	1.03	7.96	4.30	-	n
Total HpCDD	195752	0.42	n	33:48	1.03	23.42	4.30	-	n
13C-OCDD	36489000	0.88	y	37:28	0.62	4648.44	1.48	58.1	n
OCDF	1472821	0.77	y	37:35	1.44	223.47	6.66	-	n
OCDD	99569	1.07	n	37:29	1.09	20.02	5.82	-	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:16
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	56.54 of which	10.27 named and	46.26	unnamed	
Conc:	113.07 of which	20.54 named and	92.53	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:40	0.53	n	3.69	40480	5.4	y	n
						75941	5.7	y	n
	2	15:01	1.25	n	1.31	23260	4.3	y	n
						18611	2.0	n	n
	3	15:12	2.70	n	1.13	43526	7.3	y	n
						16096	1.6	n	n
	4	15:27	0.74	y	17.29	185294	28.7	y	n
						250730	19.0	y	n
	5	15:42	0.69	y	10.97	112443	17.1	y	n
						164112	10.5	y	n
	6	15:58	1.44	n	6.03	123787	13.5	y	n
						85888	4.6	y	n
	7	16:13	1.12	n	8.87	140981	18.4	y	n
						126341	9.9	y	n
	8	16:27	0.70	y	12.14	126027	18.0	y	n
						179948	13.7	y	n
	9	16:35	0.75	y	10.25	110888	15.0	y	n
						147520	9.5	y	n
	10	16:46	0.73	y	12.27	130484	19.3	y	n
						178932	12.6	y	n
	11	16:58	0.69	y	3.17	32474	6.1	y	n
						47388	4.2	y	n
2,3,7,8-TCDF	12	17:08	0.66	y	20.54	206390	27.6	y	n
						311490	18.6	y	n
	13	17:35	1.14	n	3.28	53254	5.8	y	n
						46784	3.4	y	n
	14	18:03	0.76	y	1.02	11156	2.6	n	n
						14650	1.5	n	n
	15	18:32	2.58	n	0.55	20220	3.6	y	n
						7847	0.7	n	n

	16	20:11	1.65	n	0.55	13005	2.6	n n
						7900	0.8	n n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:12
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	7.42 of which	0.35 named and	7.07	unnamed
Conc:	14.84 of which	0.69 named and	14.15	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:18	1.08	n	0.66	7624	1.8	n	n
						7080	1.2	n	n
	2	15:10	0.20	n	0.97	7954	1.9	n	n
						39676	3.3	y	n
	3	15:35	0.20	n	0.88	7249	1.7	n	n
						36536	5.8	y	n
	4	15:55	0.53	n	1.65	13552	2.9	n	n
						25799	3.2	y	n
	5	16:43	0.88	y	2.19	19258	4.4	y	n
						21937	2.8	n	n
	6	17:04	3.36	n	1.45	51708	8.2	y	n
						15401	2.4	n	n
	7	17:10	1.50	n	1.34	21414	4.8	y	n
						14269	2.3	n	n
	8	17:45	0.37	n	1.49	12200	2.4	n	n
						32695	3.2	y	n
2,3,7,8-TCDD	9	17:52	0.73	y	0.69	5504	1.2	n	n
						7547	1.2	n	n
	10	18:59	0.71	y	1.74	13629	3.2	y	n
						19156	2.2	n	n
	11	19:10	2.14	n	0.60	13578	2.8	n	n
						6355	1.1	n	n
	12	19:34	1.10	n	1.18	13779	2.2	n	n
						12577	2.1	n	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:11
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	40.00 of which	9.32 named and	30.68 unnamed
Conc:	80.00 of which	18.65 named and	61.36 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:35	1.30	n	6.55	82283	6.5	y	n
						63492	3.7	y	n
	2	20:46	1.93	n	21.94	343807	24.4	y	n
						177866	7.9	y	n
	3	21:16	1.08	n	3.65	45878	6.3	y	n
						42309	1.9	n	n
	4	21:21	0.36	n	1.20	15023	2.0	n	n
						42309	1.9	n	n
	5	21:40	0.99	n	12.15	152742	11.5	y	n
						154211	4.5	y	n
	6	22:00	2.55	n	3.90	80705	6.9	y	n
						31595	2.3	n	n
1,2,3,7,8-PeCDF	7	22:09	0.94	n	13.46	177317	15.1	y	n
						188040	7.6	y	n
	8	22:26	1.64	y	2.64	33875	3.6	y	n
						20714	1.1	n	n
	9	22:42	2.03	n	7.34	120596	8.7	y	n
						59508	3.5	y	n
2,3,4,7,8-PeCDF	10	23:26	2.07	n	5.19	82763	8.2	y	n
						40028	2.8	n	n
	11	23:51	0.29	n	2.00	25124	3.3	y	n
						86066	3.8	y	n

See 3A

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:13
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	7.79 of which	* named and	7.79 unnamed
Conc:	15.58 of which	* named and	15.58 unnamed

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:12
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	40.53 of which	8.05 named and	32.48	unnamed
Conc:	81.07 of which	16.10 named and	64.97	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:35	1.30	n	6.55	82283	6.5	y	n
						63492	3.7	y	n
	2	20:46	1.93	n	21.94	343807	24.4	y	n
						177866	7.9	y	n
	3	21:16	1.08	n	3.65	45878	6.3	y	n
						42309	1.9	n	n
	4	21:21	0.36	n	1.20	15023	2.0	n	n
						42309	1.9	n	n
	5	21:40	0.99	n	12.15	152742	11.5	y	n
						154211	4.5	y	n
	6	22:00	2.55	n	3.90	80705	6.9	y	n
						31595	2.3	n	n
1,2,3,7,8-PeCDF	7	22:09	0.86	n	10.91	143791	15.5	y	y
						167571	7.9	y	y
	8	22:13	1.28	n	3.61	45322	6.2	y	y
						35293	2.5	n	y
	9	22:26	1.64	y	2.64	33875	3.6	y	n
						20714	1.1	n	n
	10	22:42	2.03	n	7.34	120596	8.7	y	n
						59508	3.5	y	n
2,3,4,7,8-PeCDF	11	23:26	2.07	n	5.19	82763	8.2	y	n
						40028	2.8	n	n
	12	23:51	0.29	n	2.00	25124	3.3	y	n
						86066	3.8	y	n

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:36	0.56	n	0.31	3934	1.6	n	n
						6985	2.4	n	n
	2	15:00	4.99	n	0.66	26876	10.7	y	n
						5381	1.6	n	n
	3	15:13	0.83	n	2.92	36699	15.8	y	n
						44274	11.2	y	n
	4	15:21	0.08	n	0.15	1855	0.9	n	n
						22501	4.8	y	n
	5	15:32	5.96	n	0.47	22540	8.3	y	n
						3782	1.7	n	n
	6	15:38	6.39	n	0.31	16273	6.6	y	n
						2546	0.7	n	n
	7	16:44	0.57	n	0.41	5109	2.8	n	n
						8941	2.3	n	n
	8	17:03	0.29	n	0.40	4974	2.0	n	n
						17358	6.3	y	n
	9	17:46	0.33	n	0.30	3770	1.9	n	n
						11579	3.7	y	n
	10	18:00	1.13	n	0.84	10535	5.1	y	n
						9303	3.4	y	n
	11	18:34	6.40	n	0.40	20759	5.3	y	n
						3241	1.0	n	n
	12	18:49	0.74	n	3.12	39248	7.3	y	n
						52946	13.9	y	n
	13	19:13	0.66	n	5.30	66546	24.4	y	n
						100233	18.5	y	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:7
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	12.78	of which	* named and	12.78	unnamed
Conc:	25.55	of which	* named and	25.55	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:00	1.06	n	4.23	24650	1.9	n	n
						23175	7.2	y	n
	2	22:07	3.39	n	4.76	60694	3.3	y	n
						17893	7.4	y	n
	3	23:06	0.91	n	1.10	6417	0.8	n	n
						7085	2.6	n	n
	4	23:48	2.75	n	12.22	126301	7.5	y	n
						45941	15.7	y	n
	5	24:06	0.88	n	1.18	6891	0.9	n	n
						7826	4.3	y	n
	6	25:49	1.80	n	1.03	6971	1.0	n	n
						3880	2.2	n	n
	7	25:54	2.37	n	1.03	9190	1.1	n	n
						3880	2.2	n	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:10
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	66.86	of which	29.94 named and	36.91	unnamed
Conc:	133.71	of which	59.89 named and	73.83	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:39	1.20	y	23.05	183617	12.5	y	n
						152395	10.5	y	n
	2	28:01	1.22	y	31.90	255318	17.7	y	n
						209610	16.6	y	n
1,2,3,4,7,8-HxCDF	3	30:19	1.04	n	33.91	263075	20.7	y	n
						254171	18.1	y	n
1,2,3,6,7,8-HxCDF	4	30:31	0.84	n	18.29	152915	12.2	y	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:11
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC┐ Cal: TO90727101D5 Results: 16AU10B1┐

Amount:	70.78 of which	27.19 named and	43.59	unnamed
Conc:	141.55 of which	54.38 named and	87.17	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:39	1.20	y	23.05	183617	12.5	y	n
						152395	10.5	y	n
	2	28:01	1.22	y	31.90	255318	17.7	y	n
						209610	16.6	y	n
	3	30:17	1.08	y	13.34	101151	15.0	y	y
						93354	11.3	y	y
1,2,3,4,7,8-HxCDF	4	30:19	1.12	y	25.75	190409	21.6	y	y
						170391	18.4	y	y
1,2,3,6,7,8-HxCDF	5	30:31	0.92	n	20.96	175159	13.1	y	y
						189577	14.7	y	y
	6	30:46	1.29	y	8.28	68082	5.4	y	n
						52661	4.6	y	n
	7	31:00	5.73	n	1.82	67759	4.8	y	n
						11827	1.5	n	n
	8	31:19	1.75	n	6.16	70047	7.6	y	n
						40114	4.5	y	n
2,3,4,6,7,8-HxCDF	9	31:25	3.51	n	2.81	65101	6.2	y	n
						18537	3.2	y	n
1,2,3,7,8,9-HxCDF	10	32:20	1.17	y	4.87	37867	3.6	y	n
						32306	4.8	y	n
	11	32:26	1.87	n	2.61	31871	4.8	y	n
						17005	2.5	n	n

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						183097	14.4	y	n
	5	30:46	1.29	y	8.28	68082	5.4	y	n
						52661	4.6	y	n
	6	31:00	5.73	n	1.82	67759	4.8	y	n
						11827	1.5	n	n
	7	31:19	1.75	n	6.16	70047	7.6	y	n
						40114	4.5	y	n
2,3,4,6,7,8-HxCDF	8	31:25	3.51	n	2.81	65101	6.2	y	n
						18537	3.2	y	n
1,2,3,7,8,9-HxCDF	9	32:20	1.17	y	4.87	37867	3.6	y	n
						32306	4.8	y	n
	10	32:26	1.87	n	2.61	31871	4.8	y	n
						17005	2.5	n	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	7.10	of which	* named and	7.10	unnamed
Conc:	14.20	of which	* named and	14.20	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	28:43	2.48	n	1.27	14385	1.9	n	n
						5793	0.9	n	n
	2	30:18	2.75	n	3.24	40482	4.4	y	n
						14740	2.2	n	n
	3	30:39	7.00	n	1.17	37424	4.3	y	n
						5349	0.8	n	n
	4	31:24	0.75	n	2.00	11284	2.0	n	n
						15074	1.7	n	n
	5	31:53	1.41	y	2.70	16113	2.3	n	n
						11395	2.1	n	n
	6	32:18	0.50	n	2.20	12437	2.1	n	n
						24689	2.0	n	n
	7	32:38	0.57	n	1.63	9208	1.9	n	n
						16040	2.6	n	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	80.22 of which	57.71 named and	22.51	unnamed
Conc:	160.44 of which	115.43 named and	45.01	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:56	1.18	y	87.60	645587	92.9	y	n
						548578	92.5	y	n
	2	34:09	0.99	y	19.29	123188	17.5	y	n
						123915	18.1	y	n
	3	34:17	0.71	n	22.01	143720	20.9	y	n
						201874	30.8	y	n
	4	34:27	4.20	n	1.20	31499	2.6	n	n
						7507	1.7	n	n
	5	35:01	1.00	y	2.51	16120	3.0	y	n
						16040	2.4	n	n
1,2,3,4,7,8,9-HpCDF	6	35:11	1.31	n	27.83	214096	27.5	y	n
						163443	24.6	y	n

Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	11.71 of which	3.98 named and	7.73	unnamed
Conc:	23.42 of which	7.96 named and	15.46	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	33:48	0.42	n	1.46	6227	1.1	n	n
						14742	2.1	n	n
	2	34:13	0.61	n	6.02	25652	3.6	y	n
						41928	7.0	y	n
1,2,3,4,6,7,8-HpCDD	3	34:50	1.19	y	7.96	36111	6.4	y	n
						30410	5.8	y	n
	4	35:01	0.87	n	7.98	34004	5.6	y	n
						39113	5.7	y	n

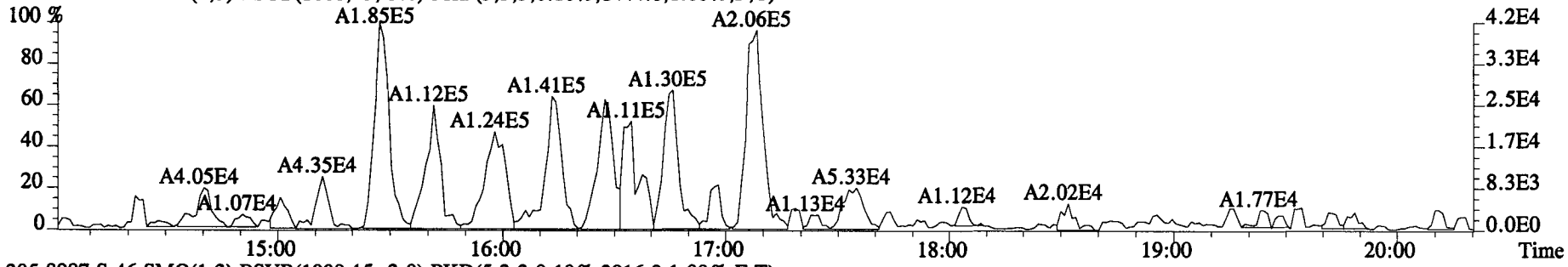
Run Text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? yes #Hom:6
Run: 12 File: 16AU10B1D5 S:46 Acq:18-AUG-10 01:10:16
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

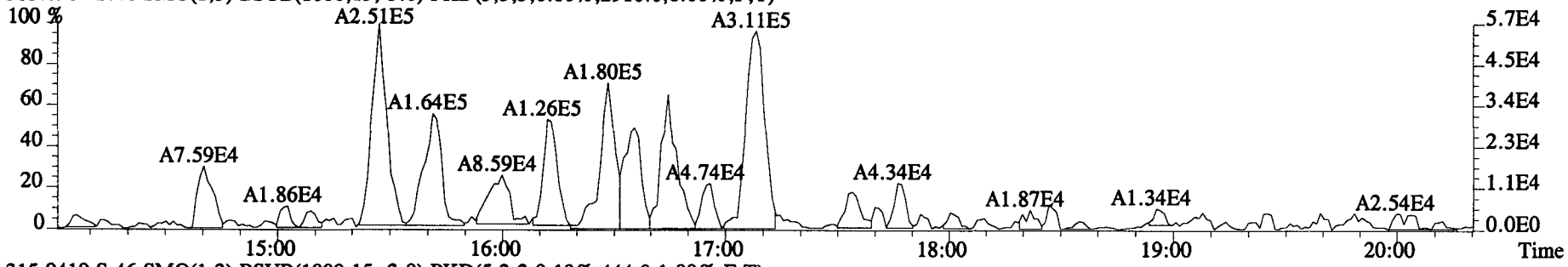
Amount:	79.86 of which	57.35 named and	22.51	unnamed
Conc:	159.71 of which	114.70 named and	45.01	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:56	1.18	y	87.60	645587	92.9	y	n
						548578	92.5	y	n
	2	34:09	0.99	y	19.29	123188	17.5	y	n
						123915	18.1	y	n
	3	34:17	0.71	n	22.01	143720	20.9	y	n
						201874	30.8	y	n
	4	34:27	4.20	n	1.20	31499	2.6	n	n
						7507	1.7	n	n
	5	35:01	1.00	y	2.51	16120	3.0	y	n
						16040	2.4	n	n
1,2,3,4,7,8,9-HpCDF	6	35:11	1.36	n	27.10	215983	27.9	y	y
						159156	24.9	y	y

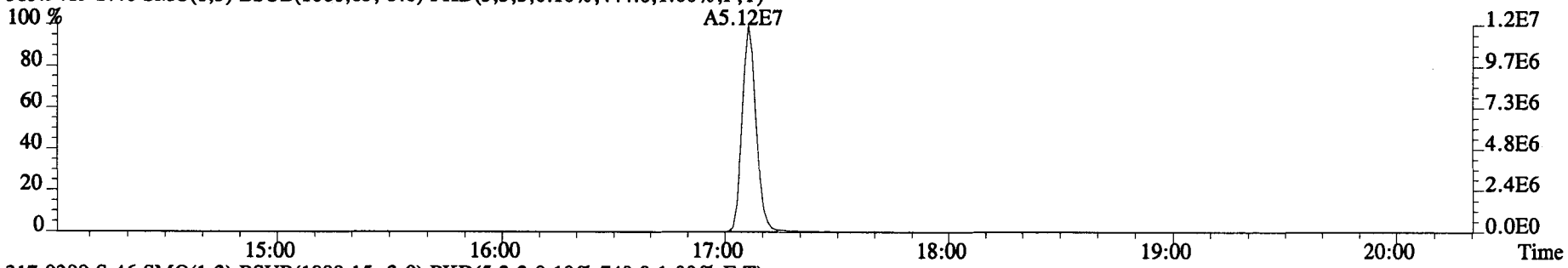
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
303.9016 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1444.0,1.00%,F,T)



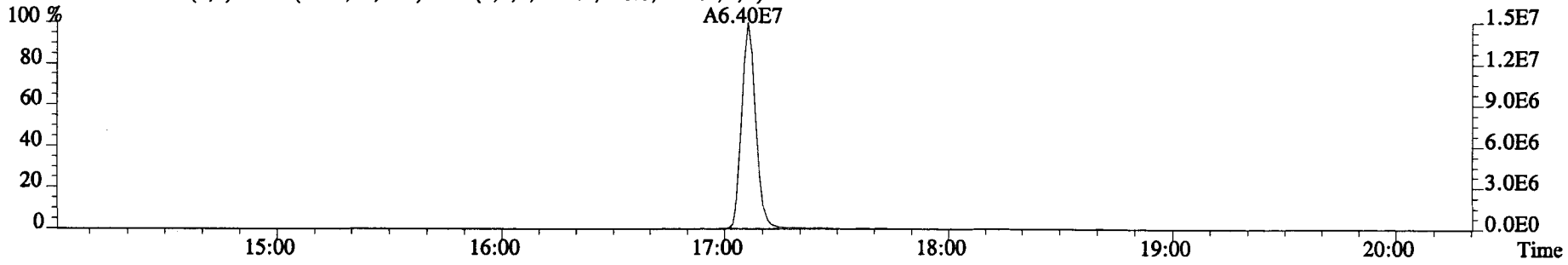
305.8987 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2916.0,1.00%,F,T)



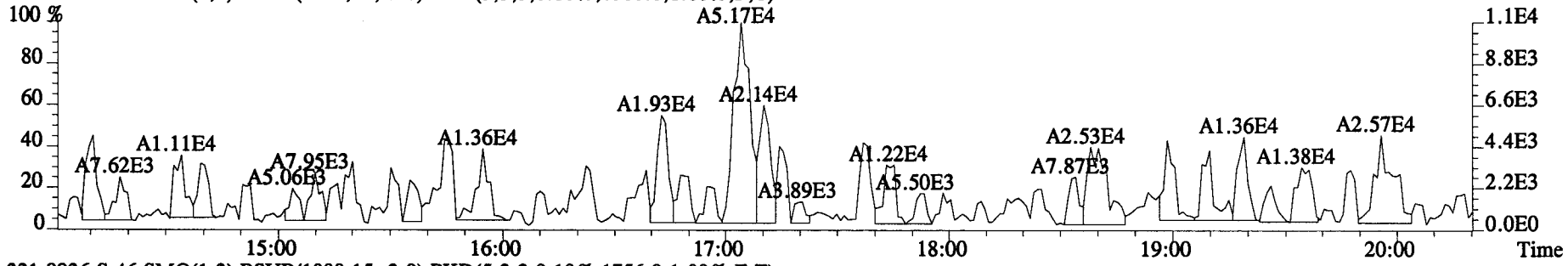
315.9419 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444.0,1.00%,F,T)



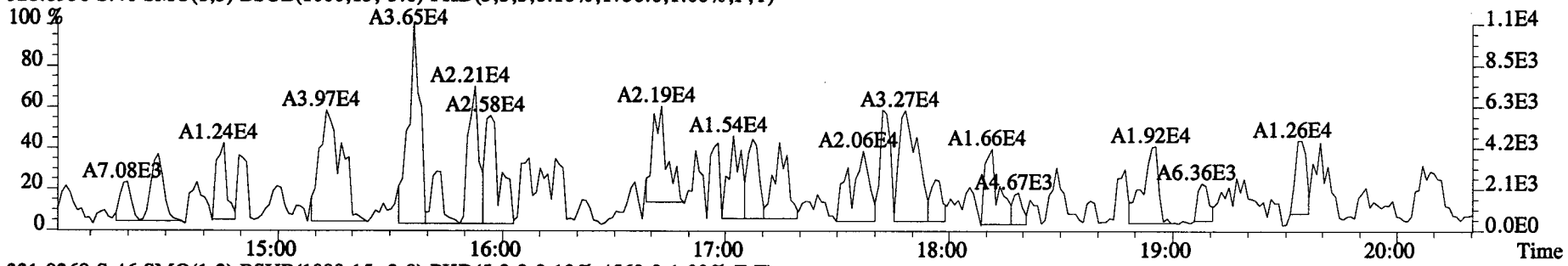
317.9389 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,740.0,1.00%,F,T)



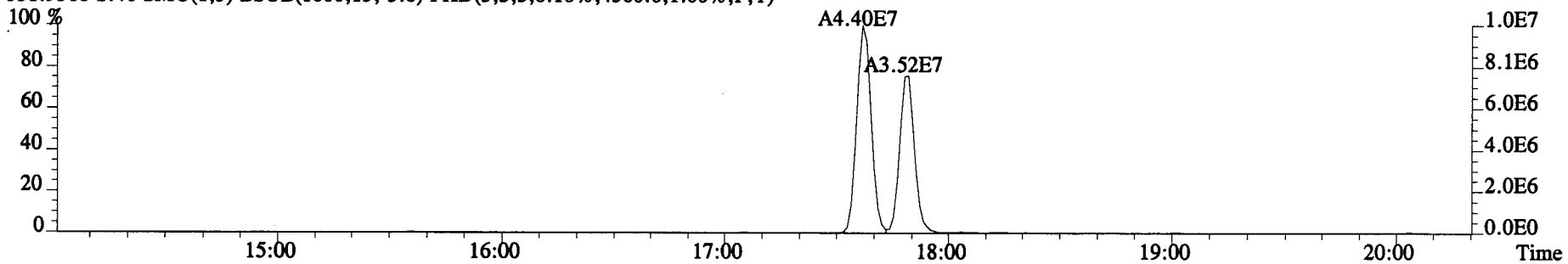
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
319.8965 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



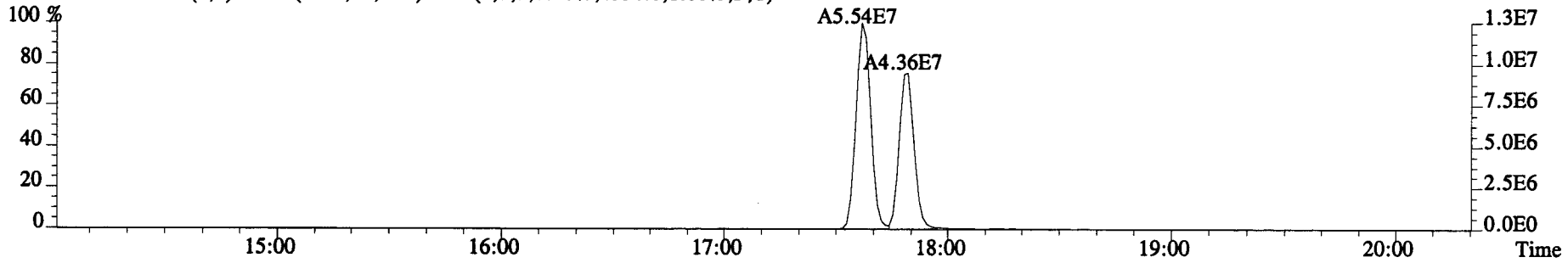
321.8936 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1756.0,1.00%,F,T)



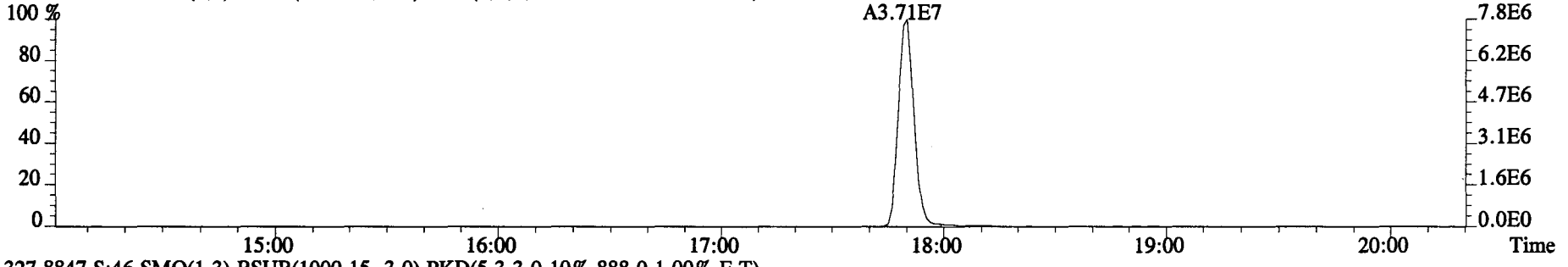
331.9368 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4560.0,1.00%,F,T)



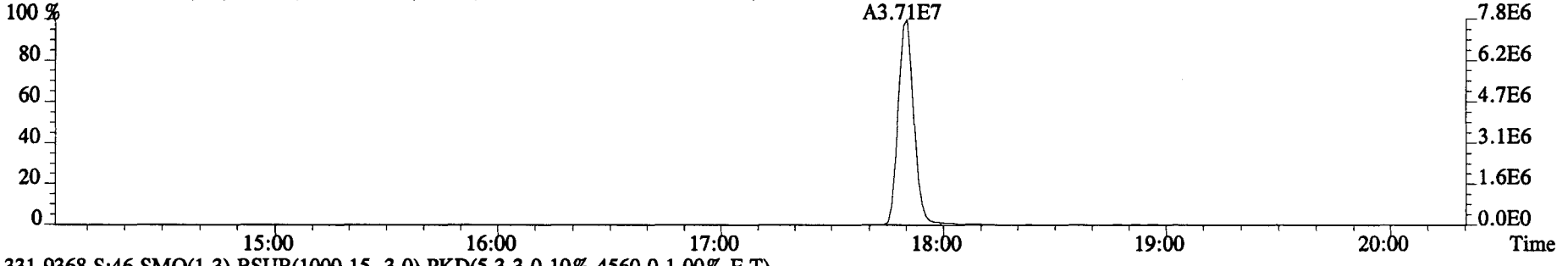
333.9339 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)



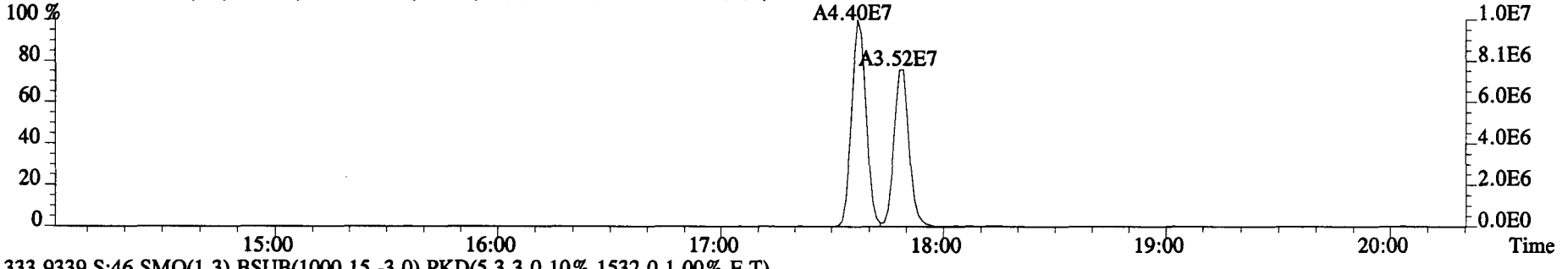
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
327.8847 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,888.0,1.00%,F,T)



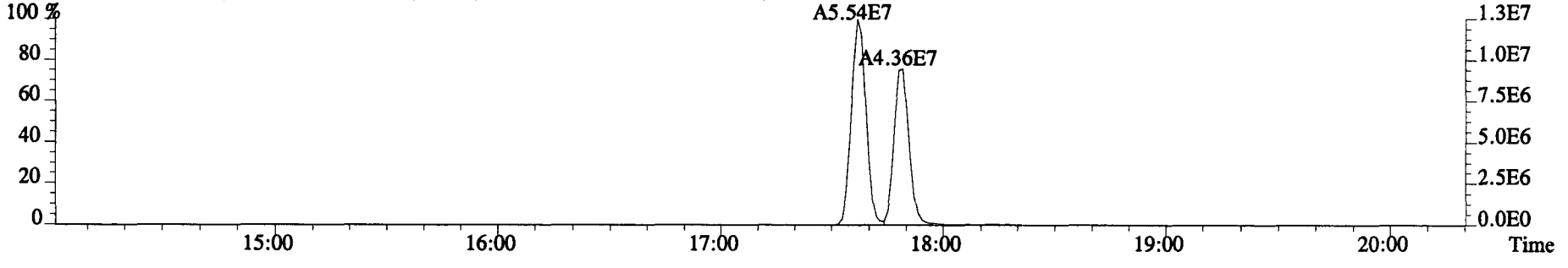
327.8847 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,888.0,1.00%,F,T)



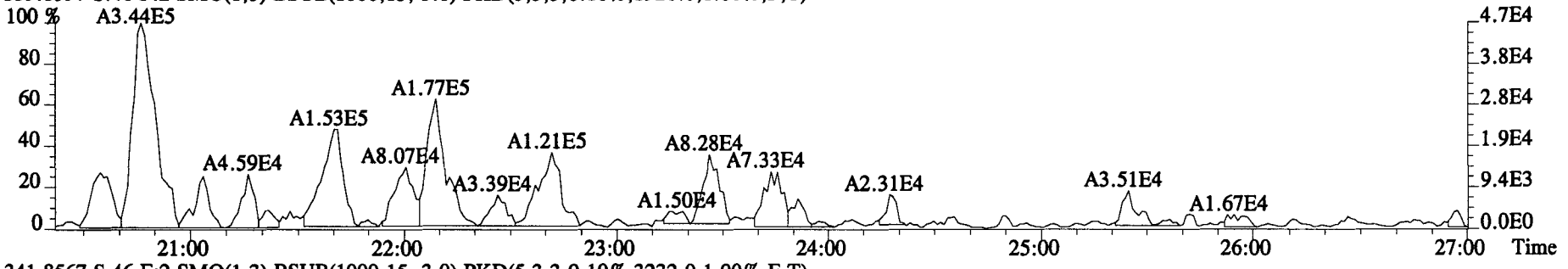
331.9368 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4560.0,1.00%,F,T)



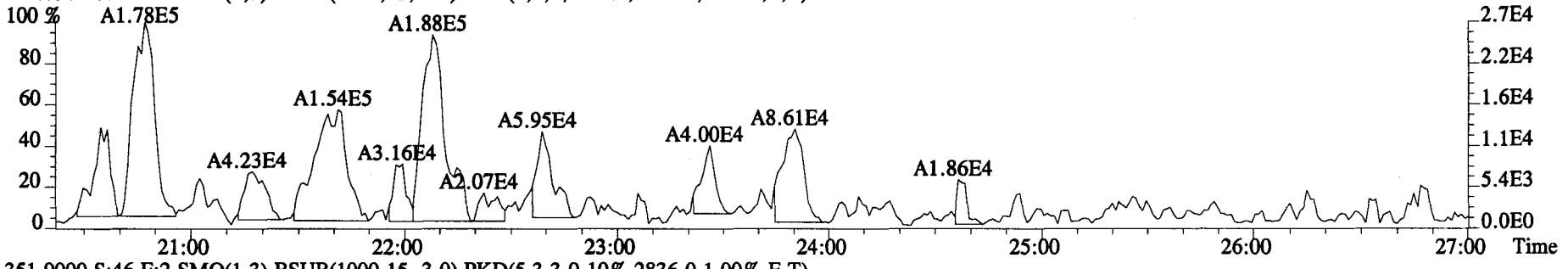
333.9339 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)



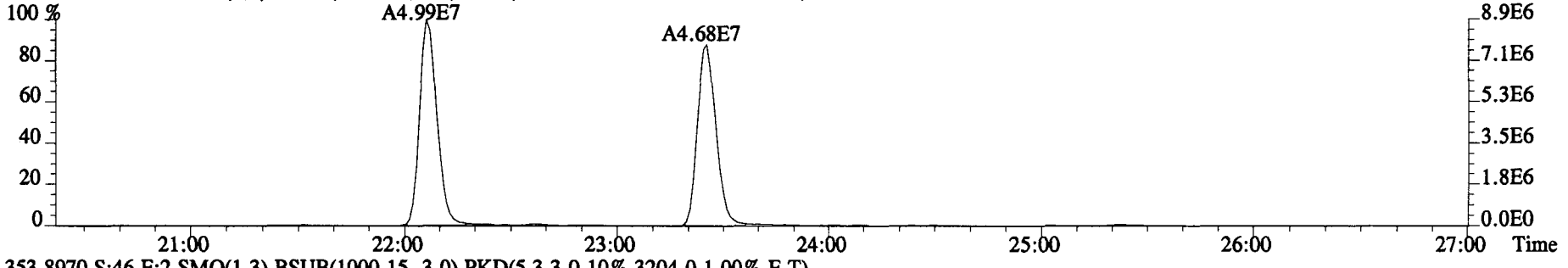
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
339.8597 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)



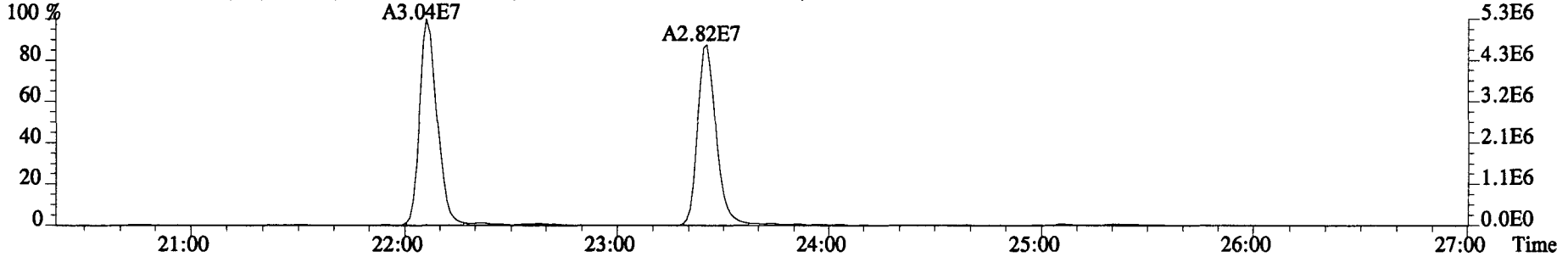
341.8567 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3232.0,1.00%,F,T)



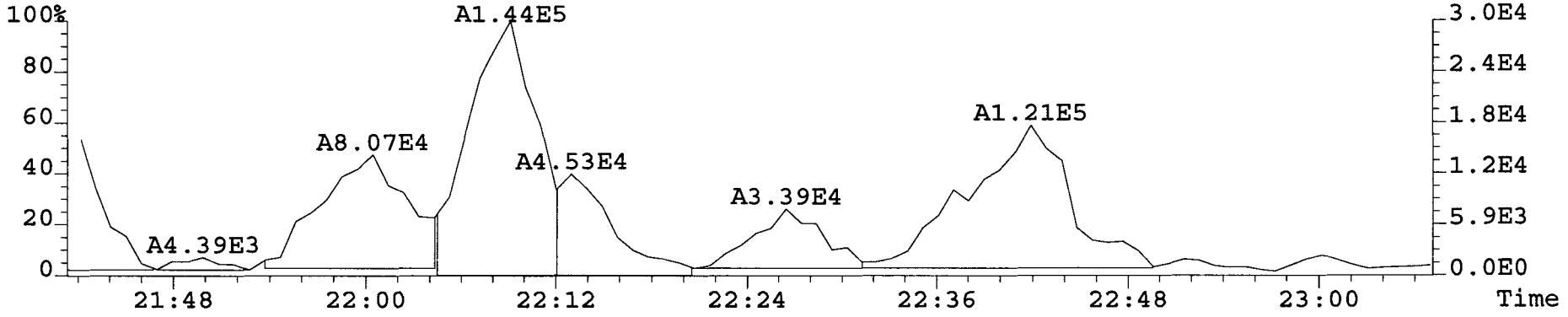
351.9000 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)



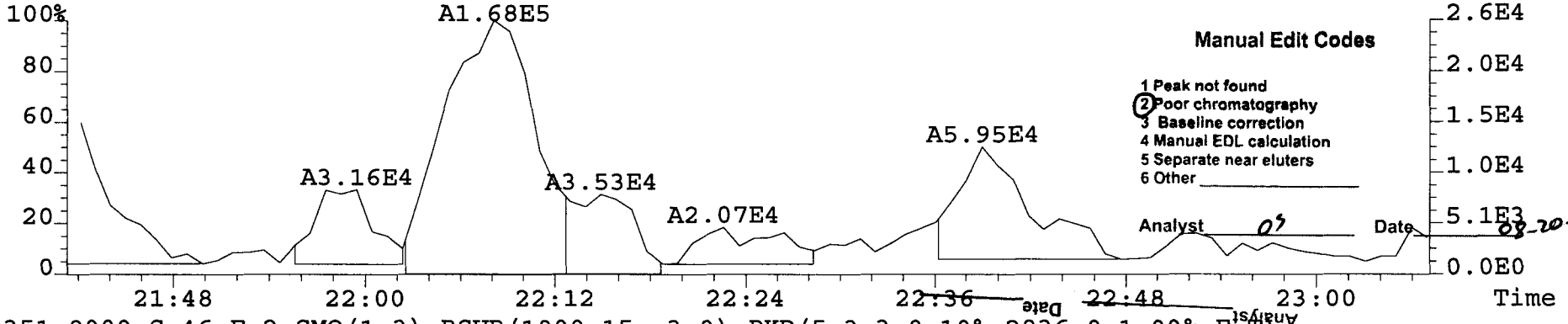
353.8970 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3204.0,1.00%,F,T)



File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
339.8597 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)



341.8567 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3232.0,1.00%,F,T)

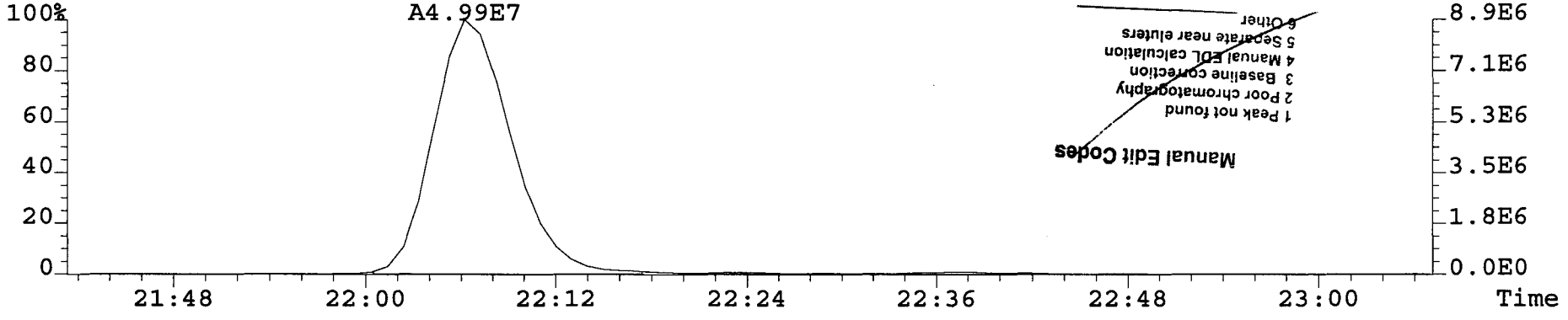


Manual Edit Codes

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

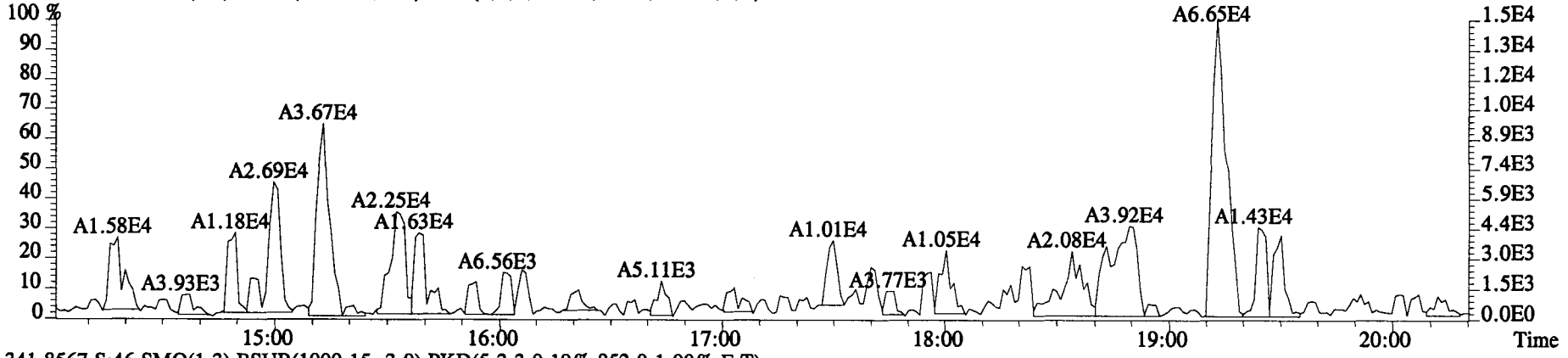
Analyst OS Date 08-20-10

351.9000 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)

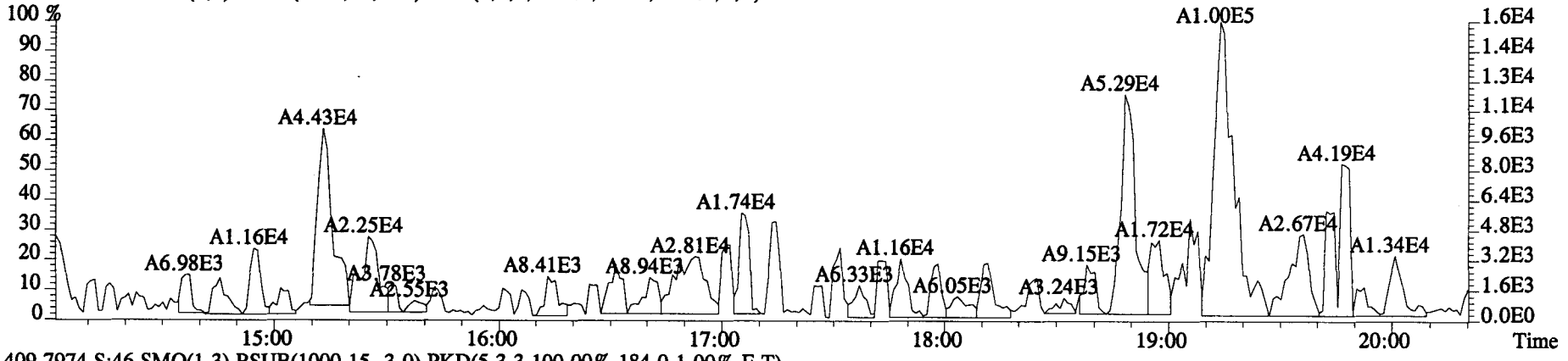


Manual Edit Codes
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other

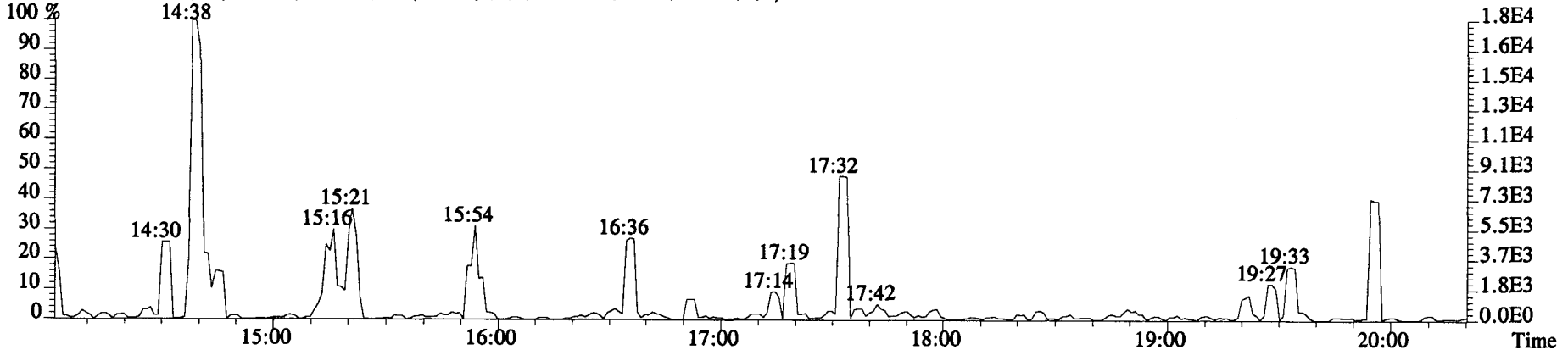
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
339.8597 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T)



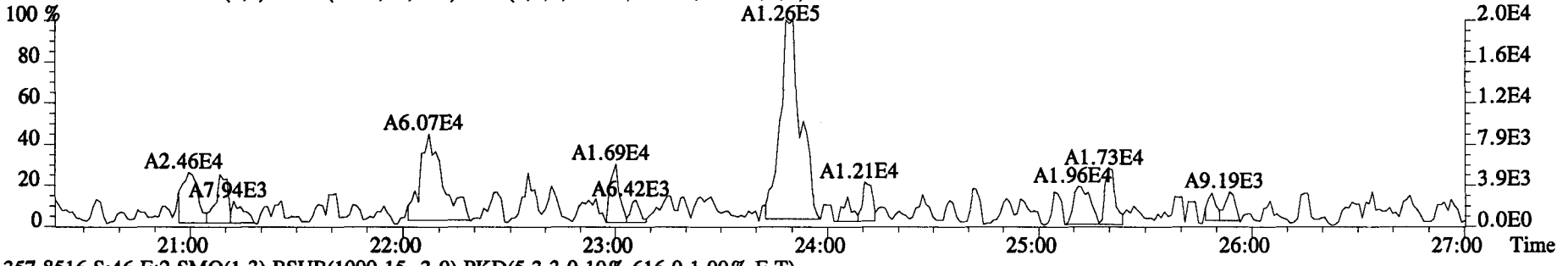
341.8567 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,852.0,1.00%,F,T)



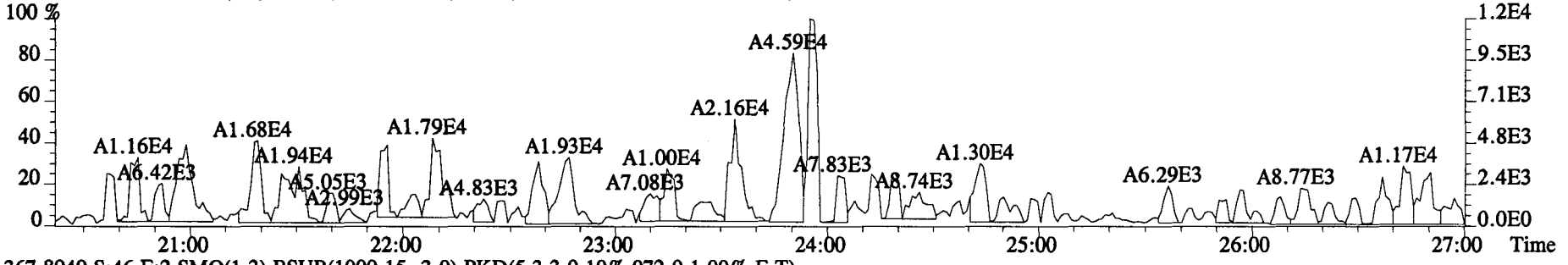
409.7974 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,184.0,1.00%,F,T)



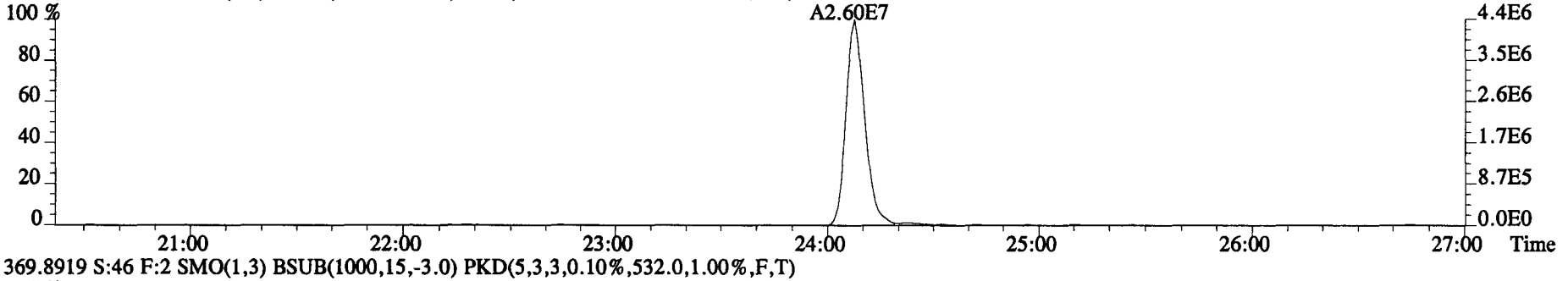
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
355.8546 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2540.0,1.00%,F,T)



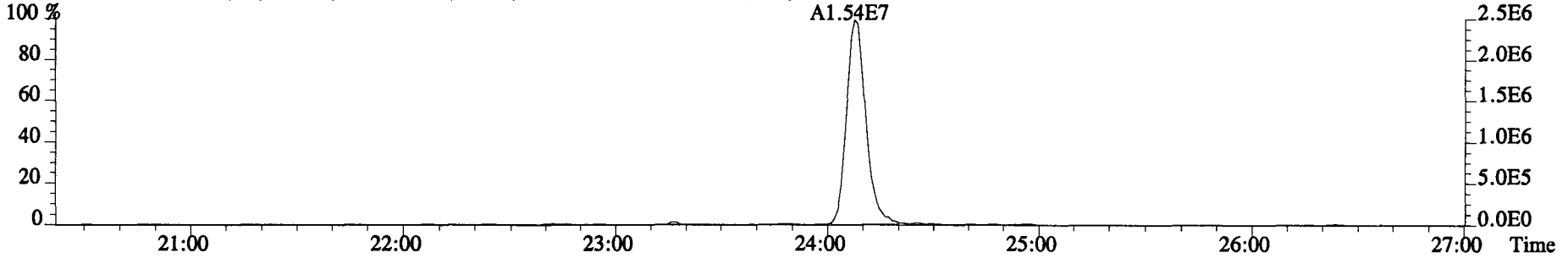
357.8516 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



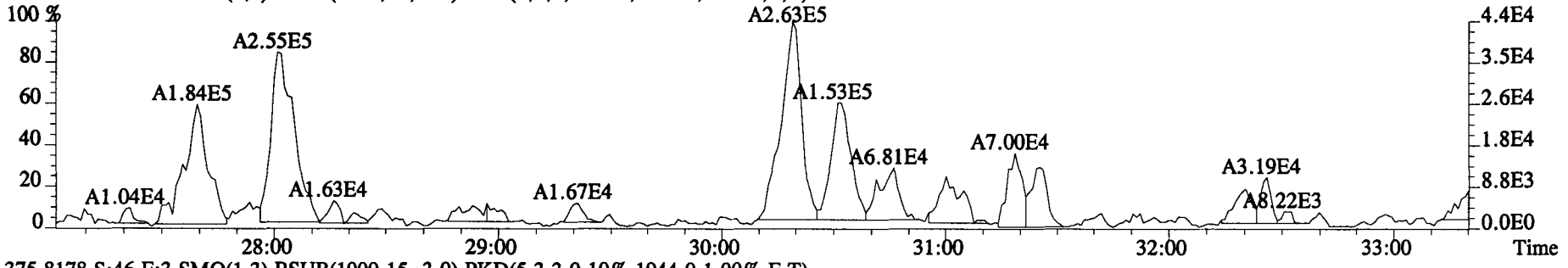
367.8949 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,972.0,1.00%,F,T)



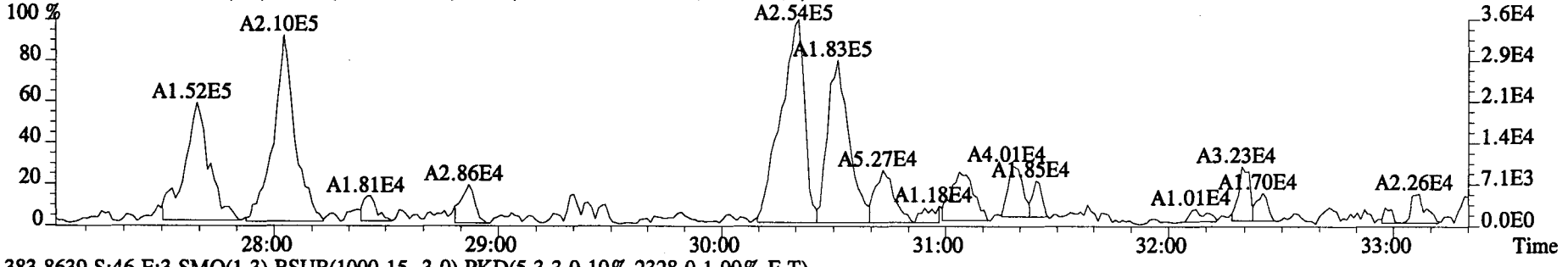
369.8919 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



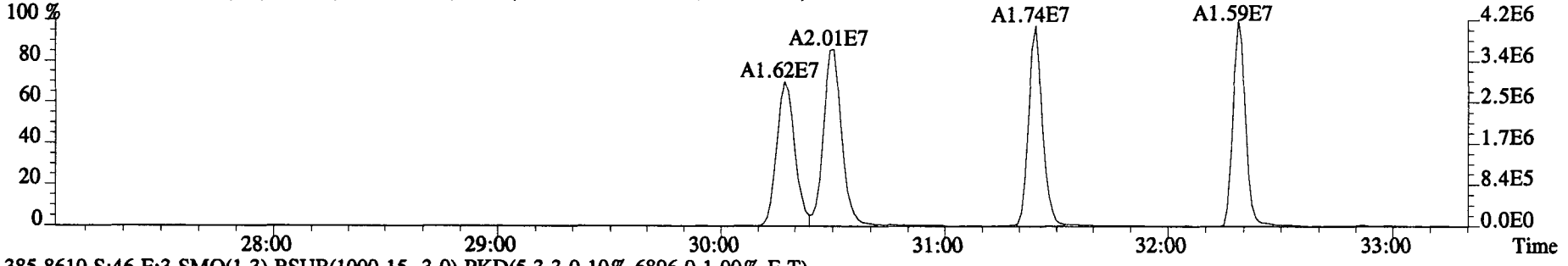
File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
373.8208 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2040.0,1.00%,F,T)



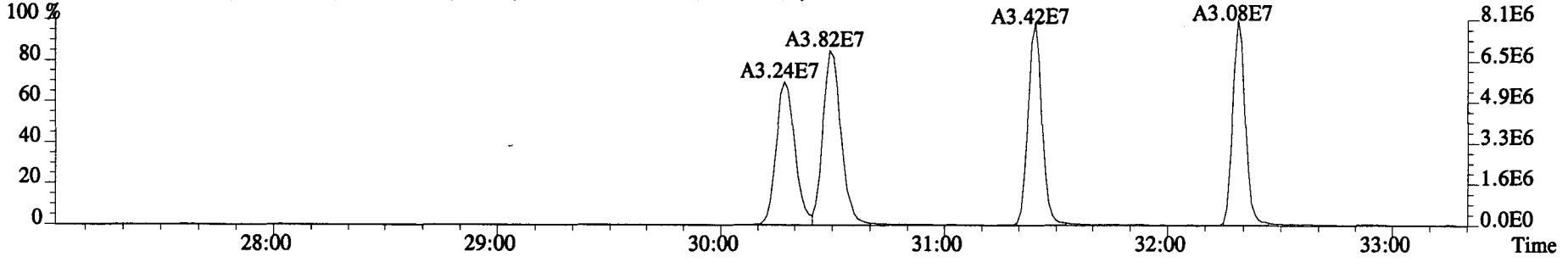
375.8178 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1944.0,1.00%,F,T)



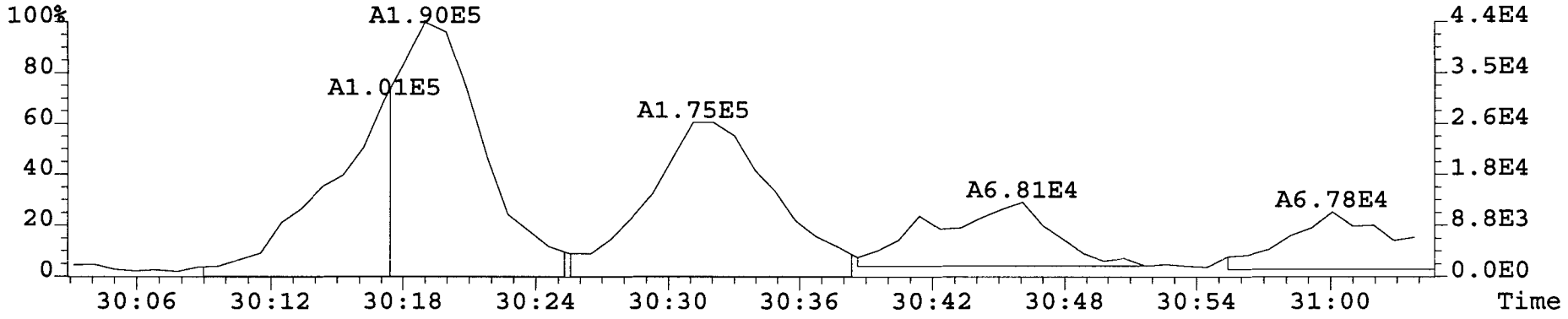
383.8639 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



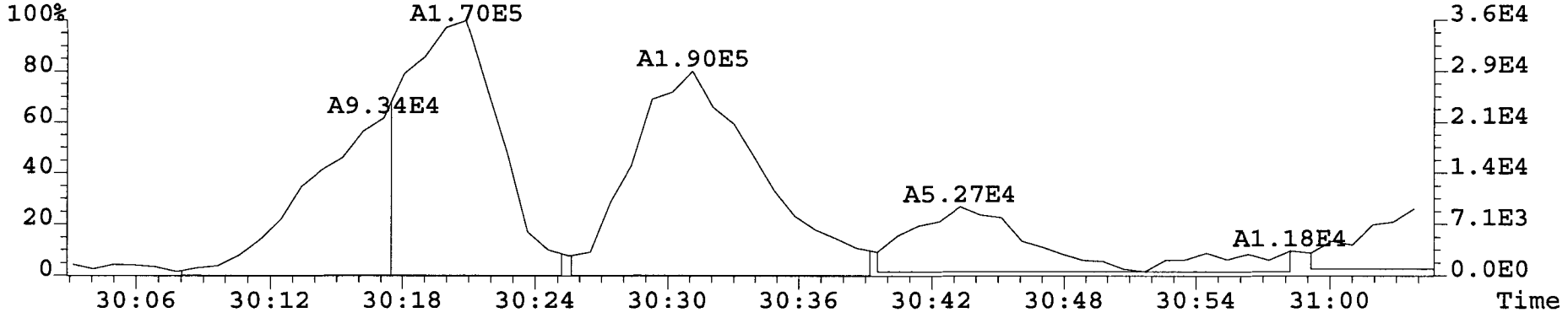
385.8610 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6896.0,1.00%,F,T)



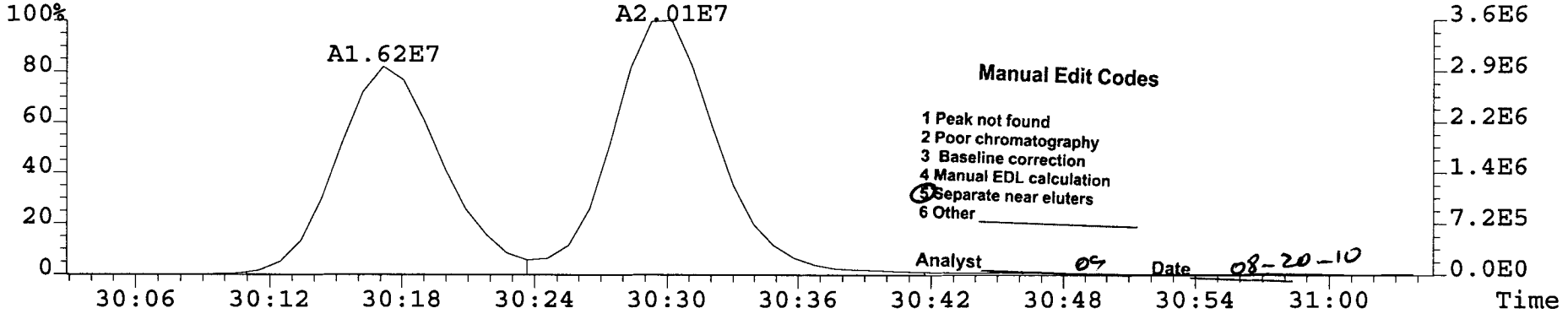
File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
373.8208 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2040.0,1.00%,F,T)



375.8178 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1944.0,1.00%,F,T)



383.8639 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



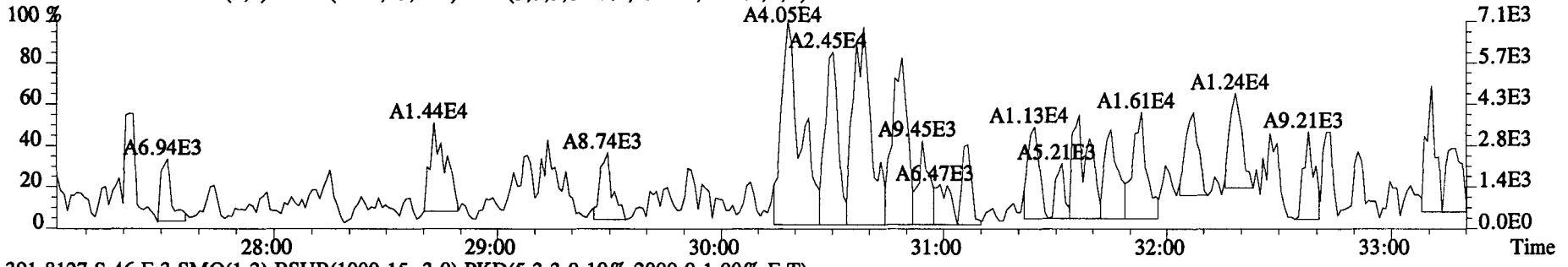
Manual Edit Codes

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

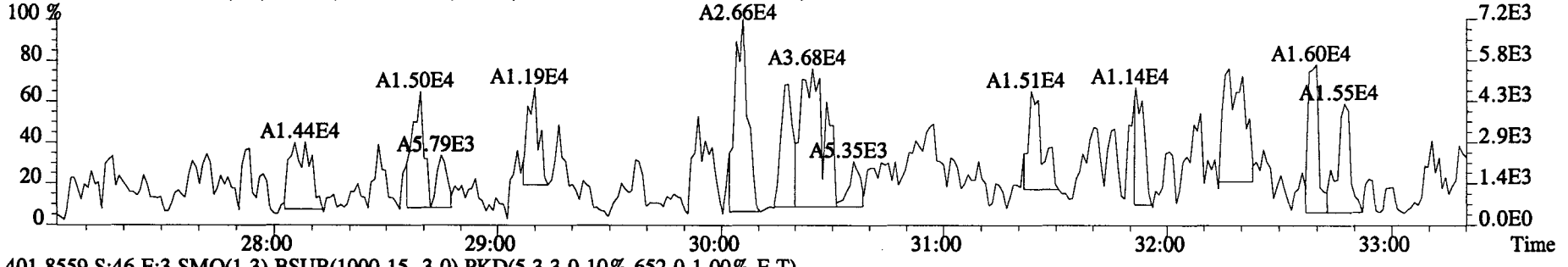
Analyst DS Date 08-20-10

File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES

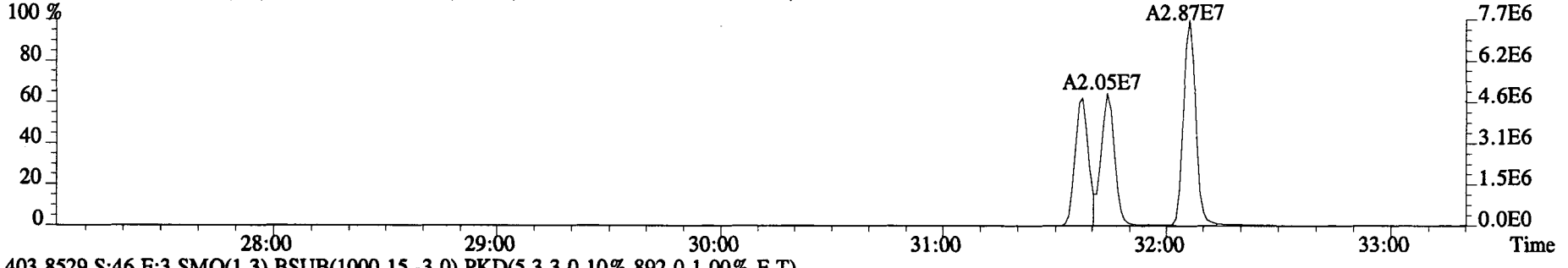
389.8157 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,F,T)



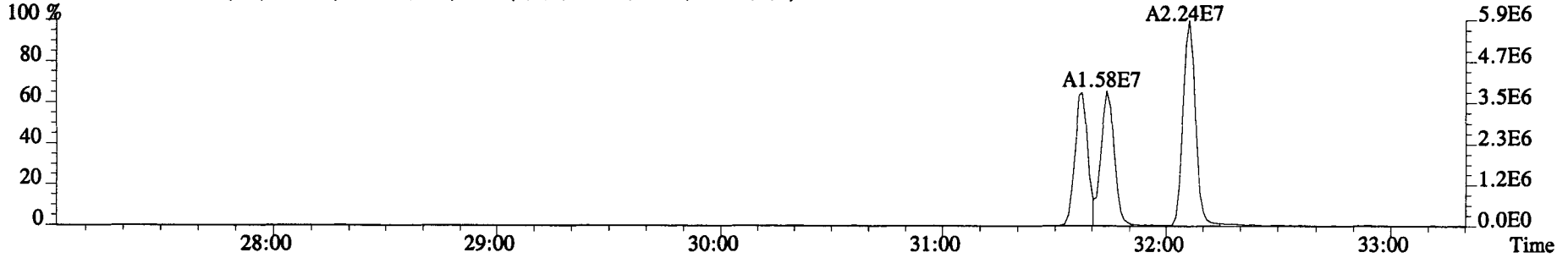
391.8127 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2000.0,1.00%,F,T)



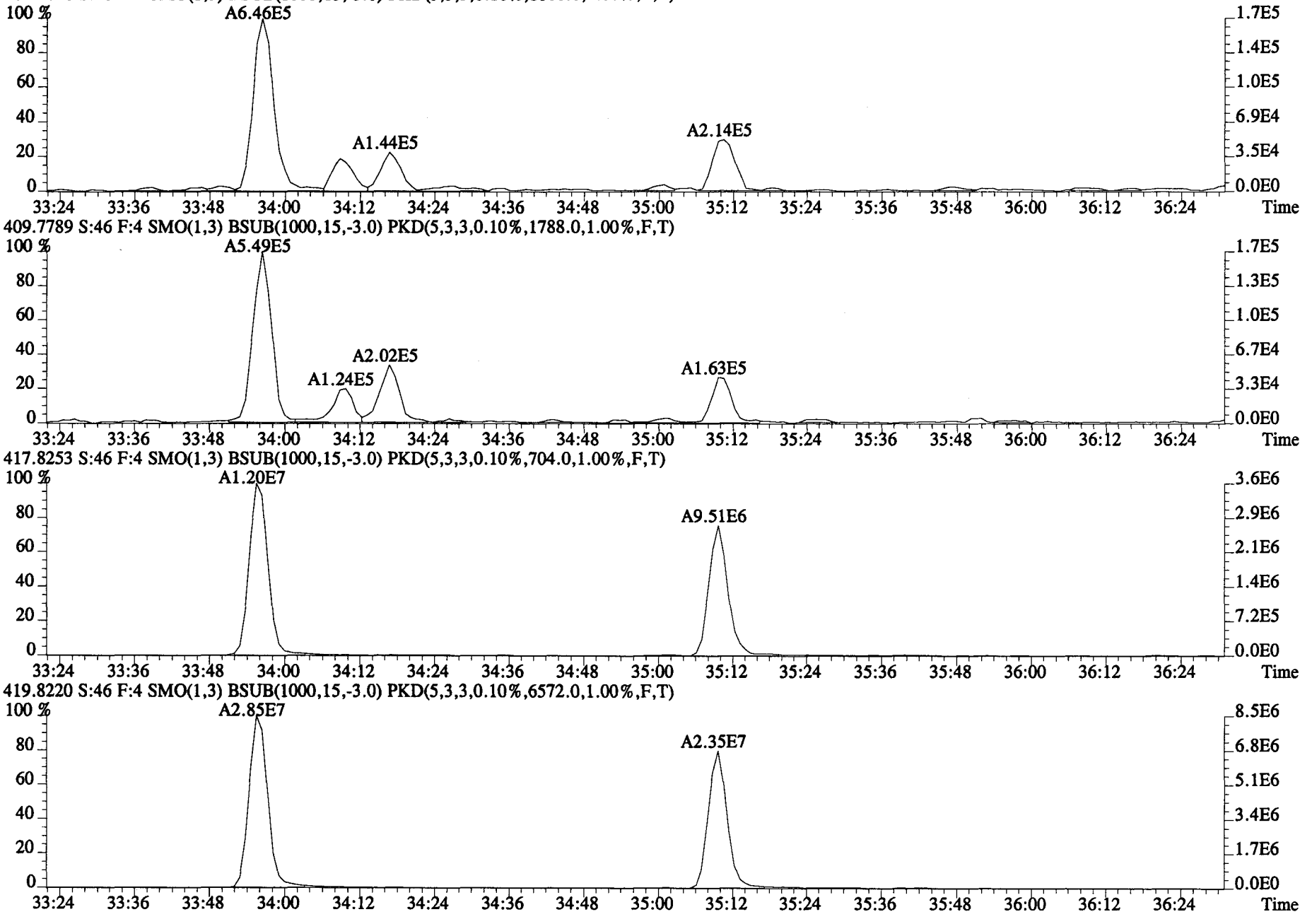
401.8559 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)



403.8529 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)

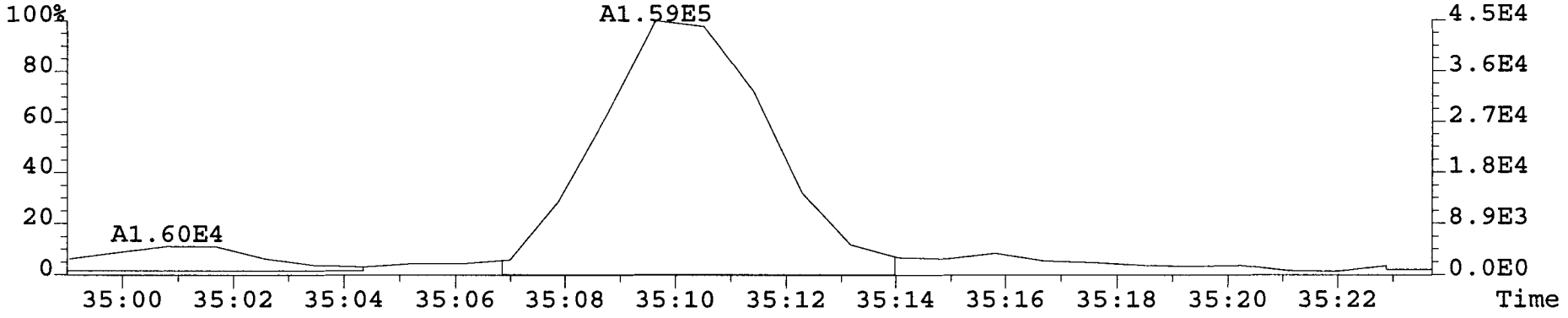


File:16AU10B1D5 #1-215 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES

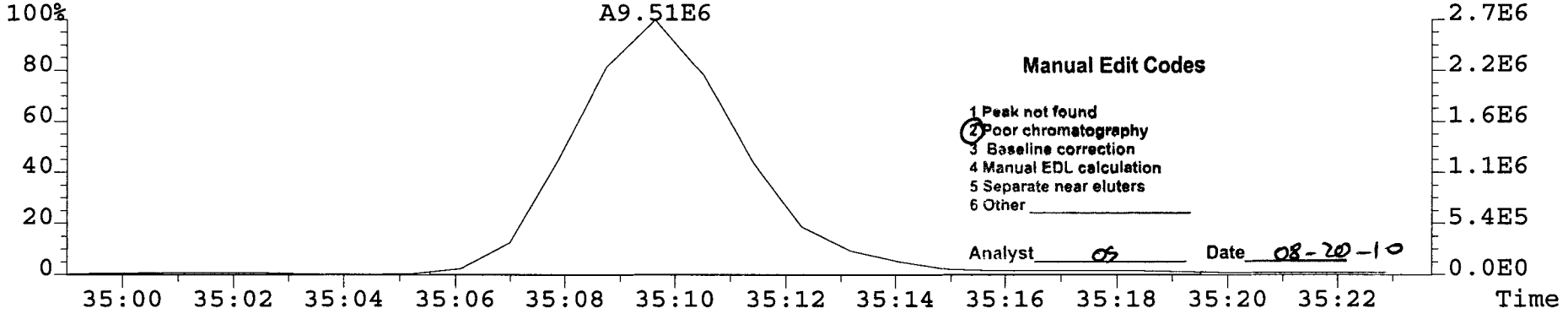


File:16AU10B1D5 #1-215 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
407.7818 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)

409.7789 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1788.0,1.00%,F,T)



417.8253 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704.0,1.00%,F,T)

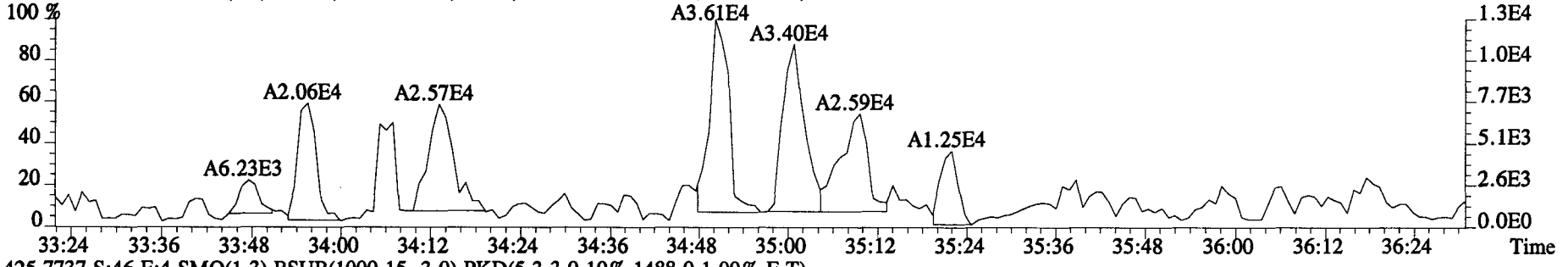


Manual Edit Codes

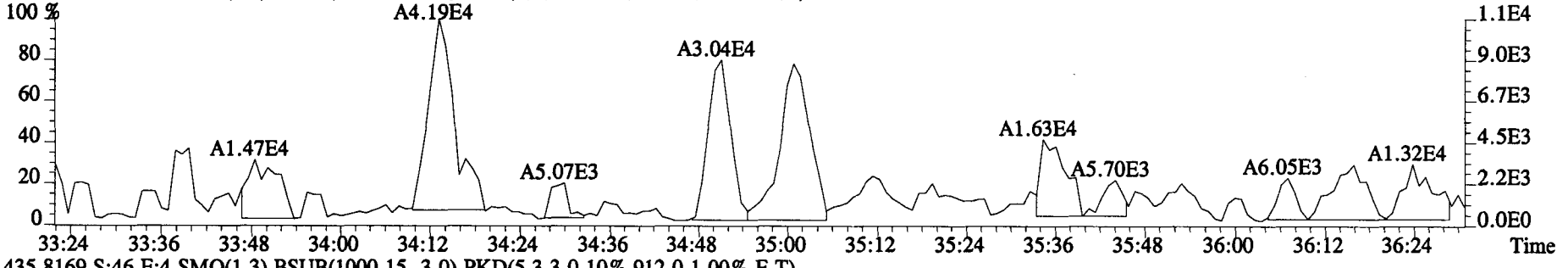
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst OS Date 08-20-10

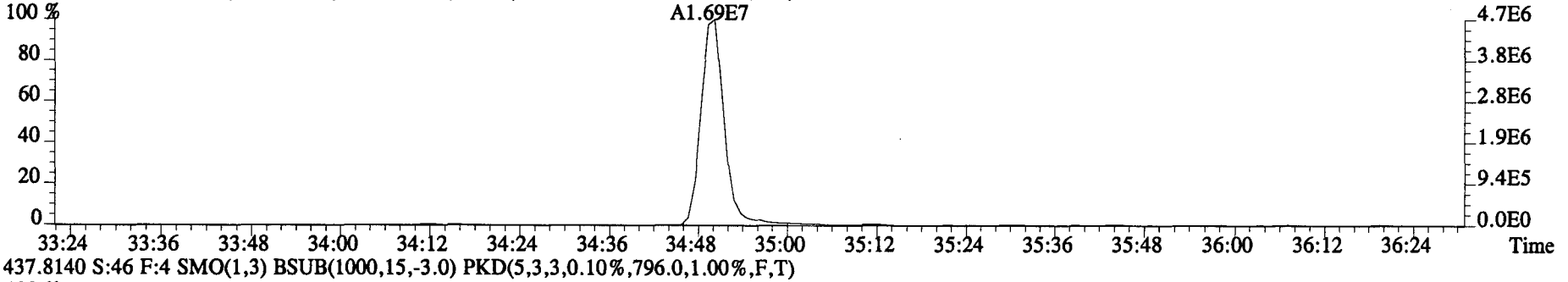
File:16AU10B1D5 #1-215 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
423.7766 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T)



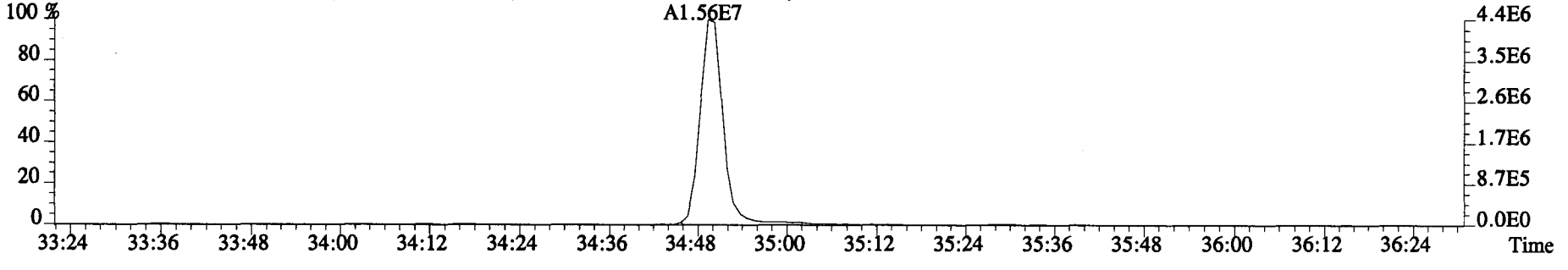
425.7737 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)



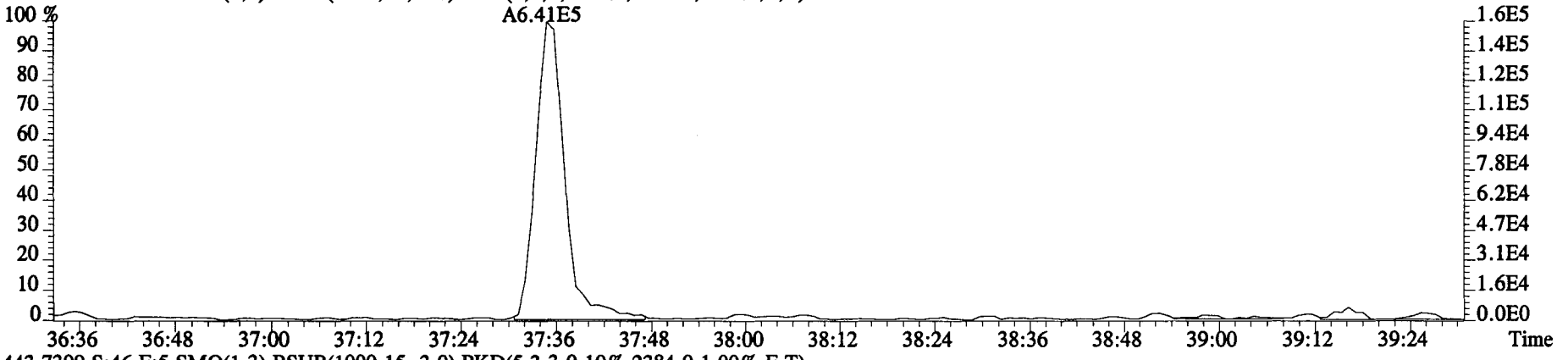
435.8169 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,912.0,1.00%,F,T)



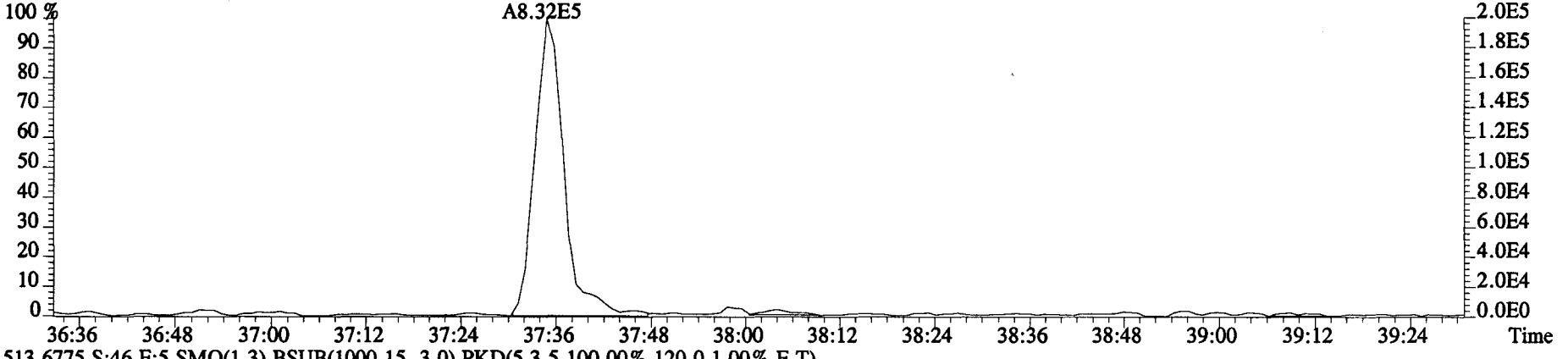
437.8140 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,796.0,1.00%,F,T)



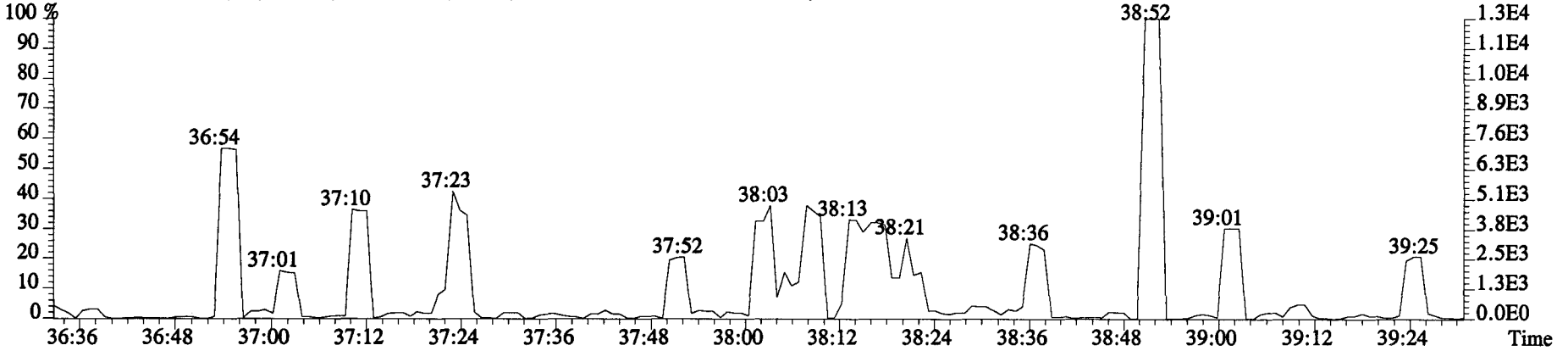
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
441.7428 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1388.0,1.00%,F,T)



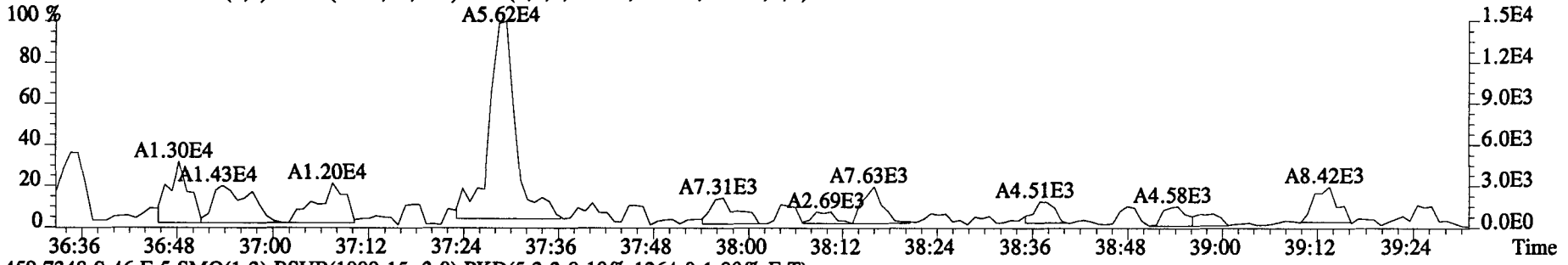
443.7399 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



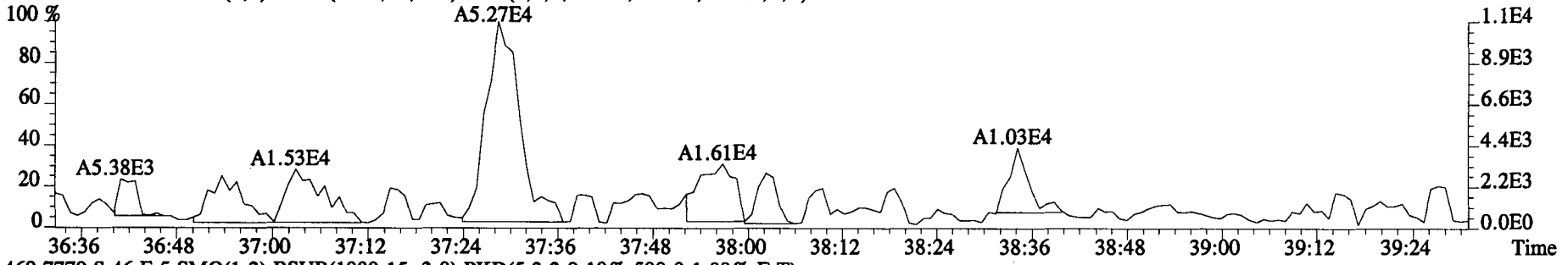
513.6775 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,120.0,1.00%,F,T)



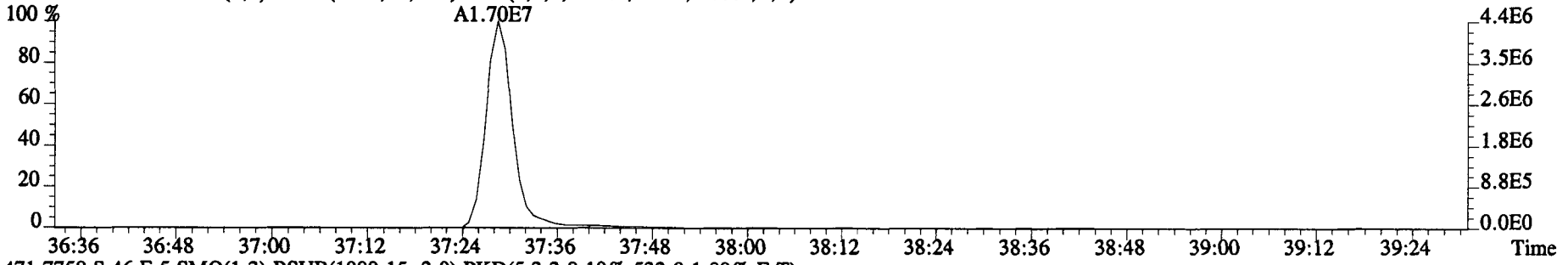
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
457.7377 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1220.0,1.00%,F,T)



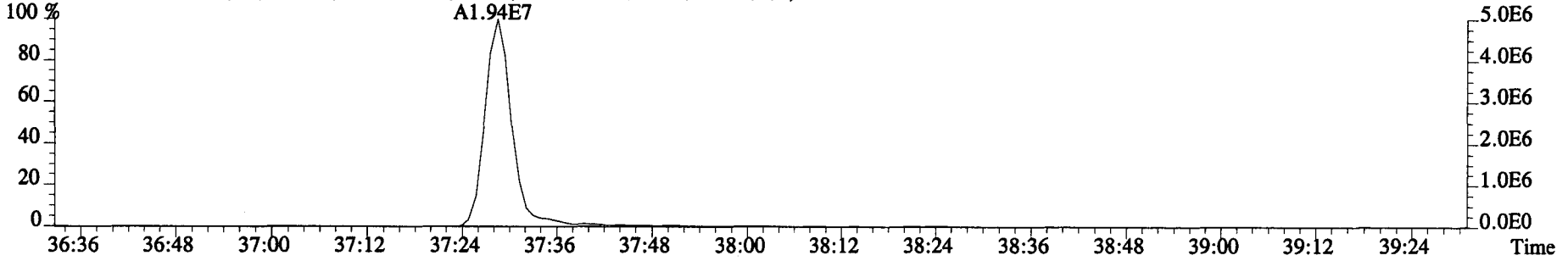
459.7348 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T)



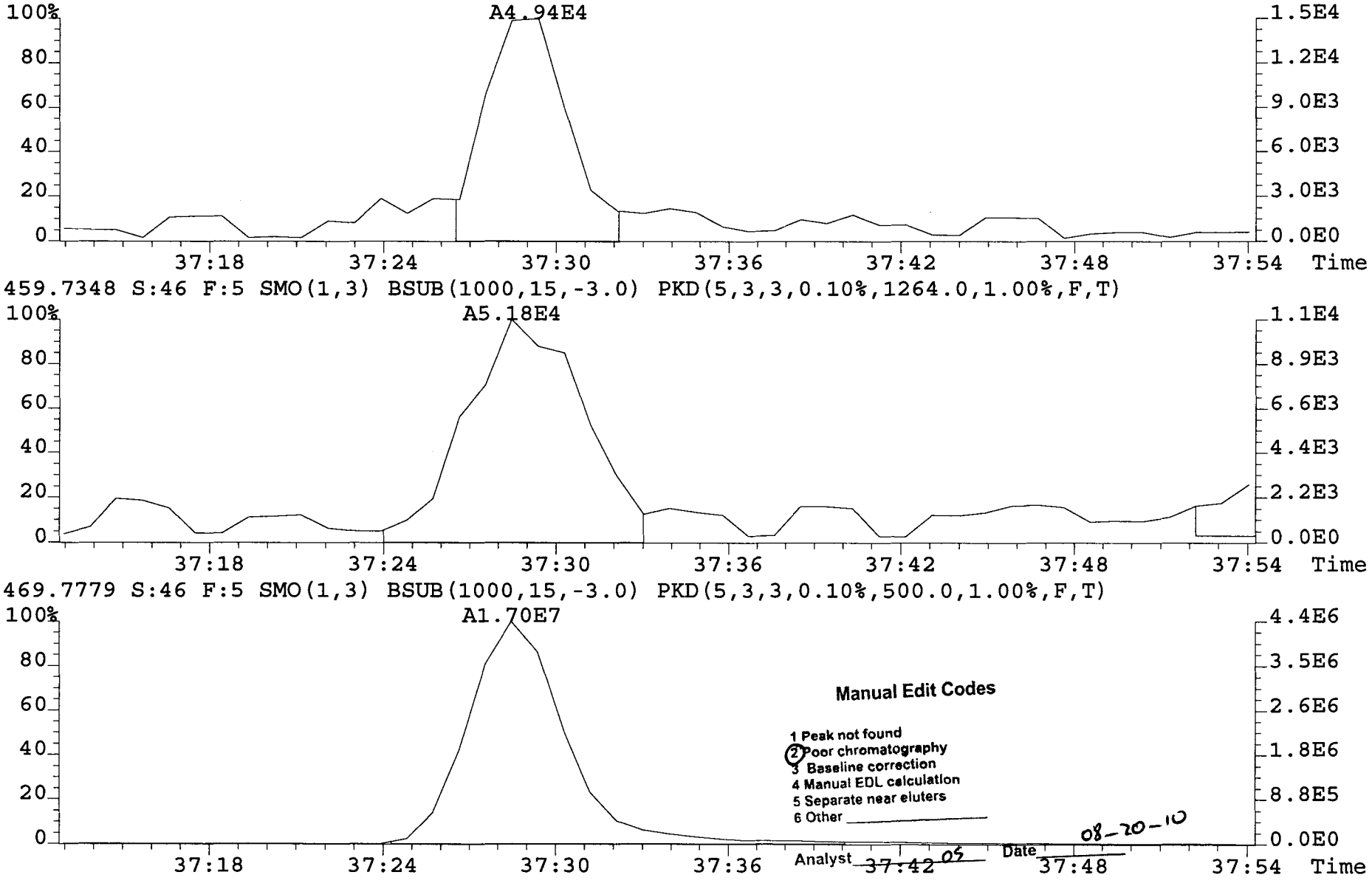
469.7779 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,500.0,1.00%,F,T)



471.7750 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES



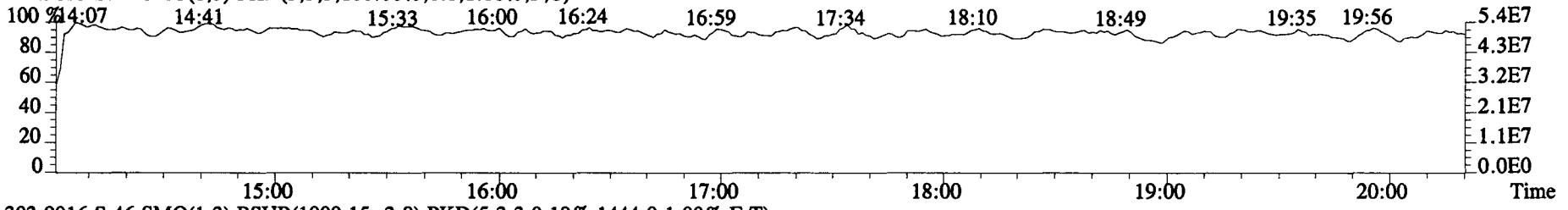
Manual Edit Codes

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

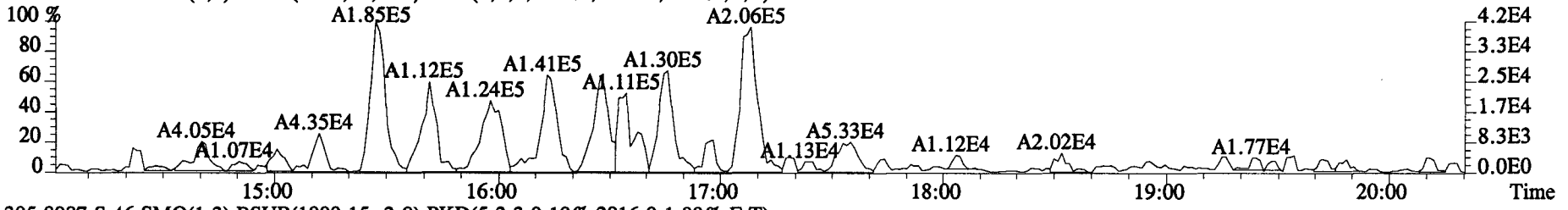
Analyst ~~37:42~~ DS Date 08-20-10

File:16AU10B1D5 #1-372 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES

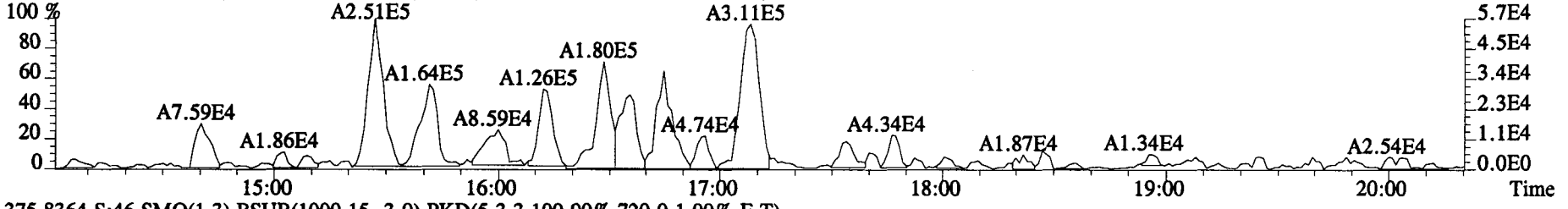
292.9825 S:46 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



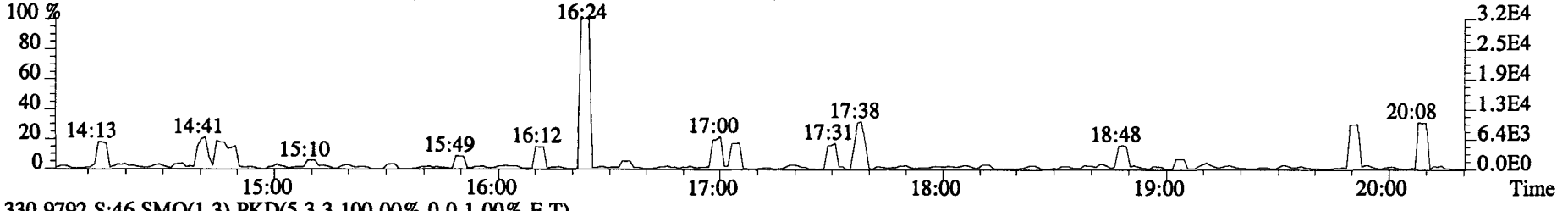
303.9016 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1444.0,1.00%,F,T)



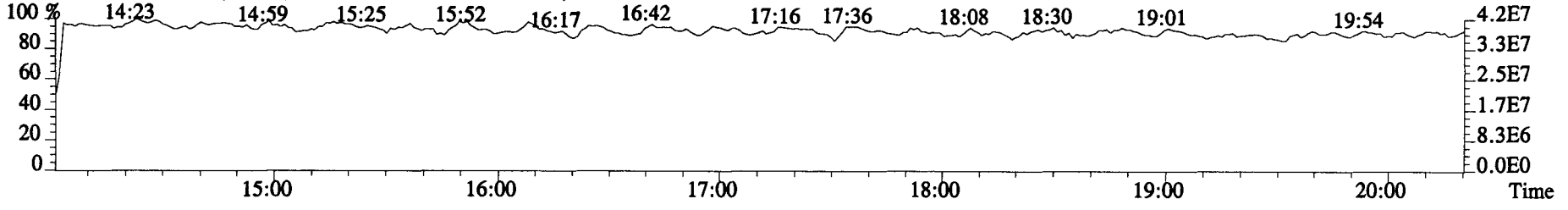
305.8987 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2916.0,1.00%,F,T)



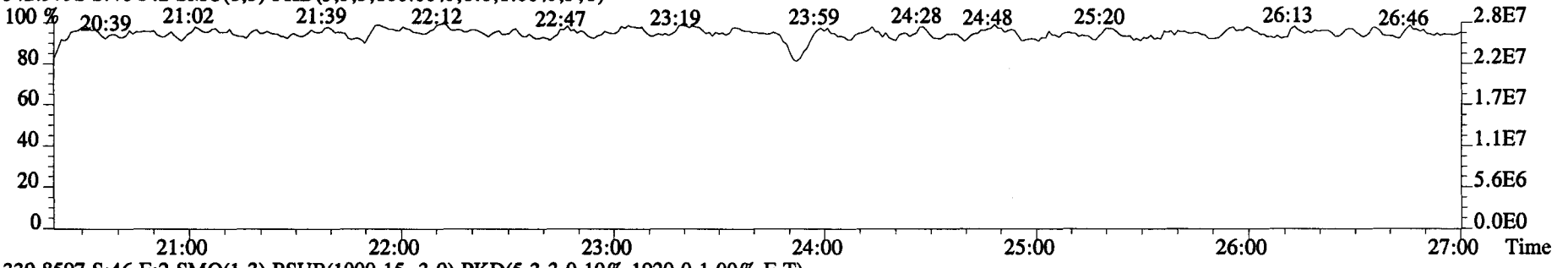
375.8364 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,720.0,1.00%,F,T)



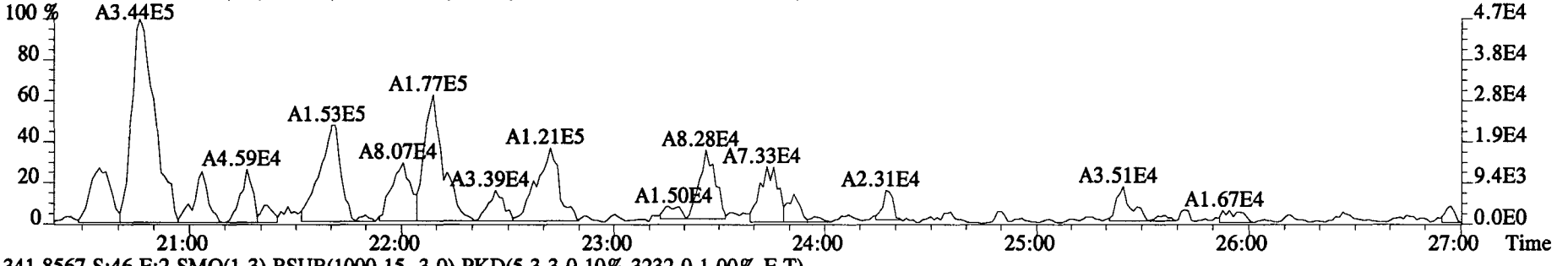
330.9792 S:46 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



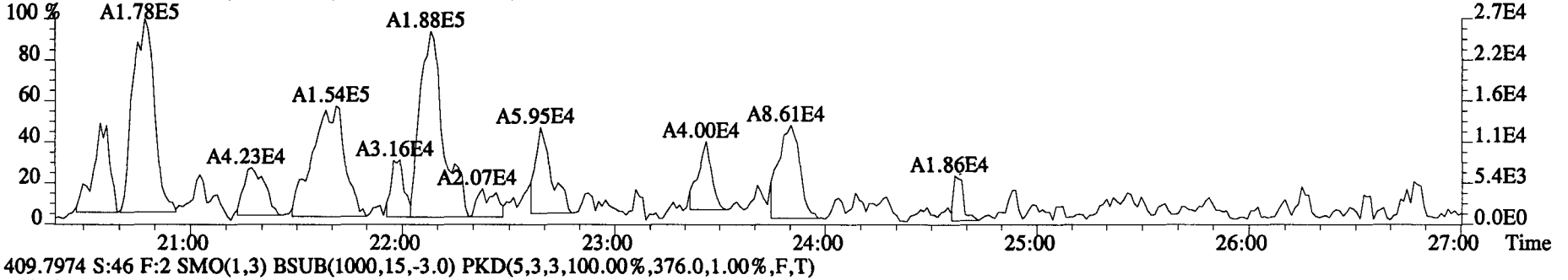
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
342.9792 S:46 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



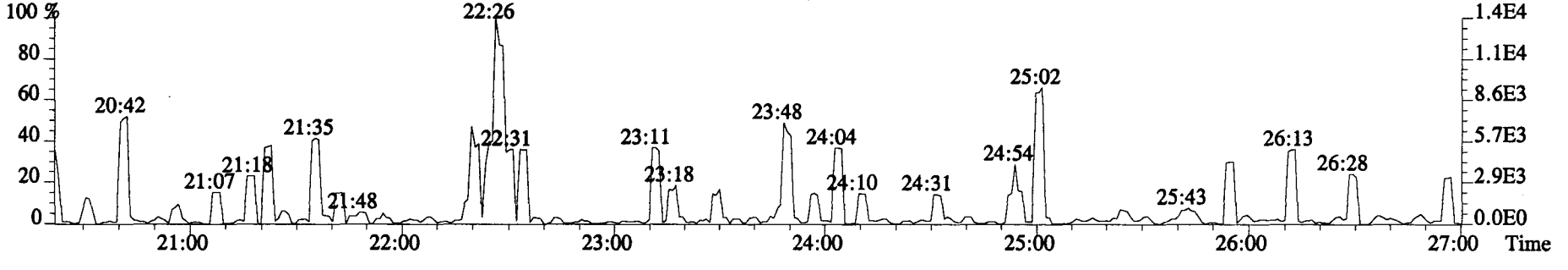
339.8597 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)



341.8567 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3232.0,1.00%,F,T)

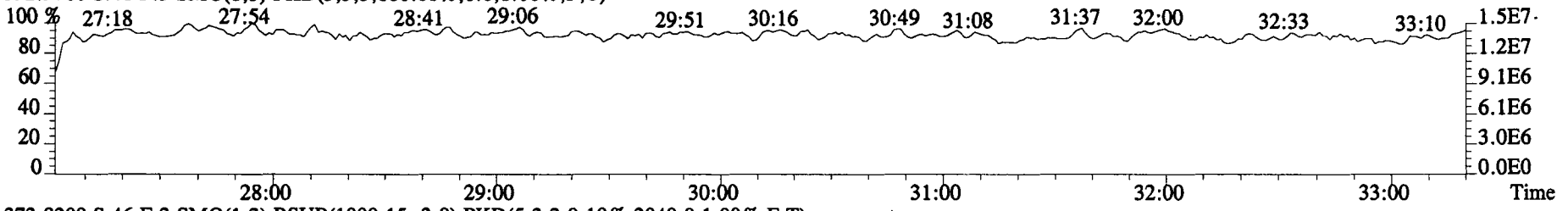


409.7974 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,376.0,1.00%,F,T)

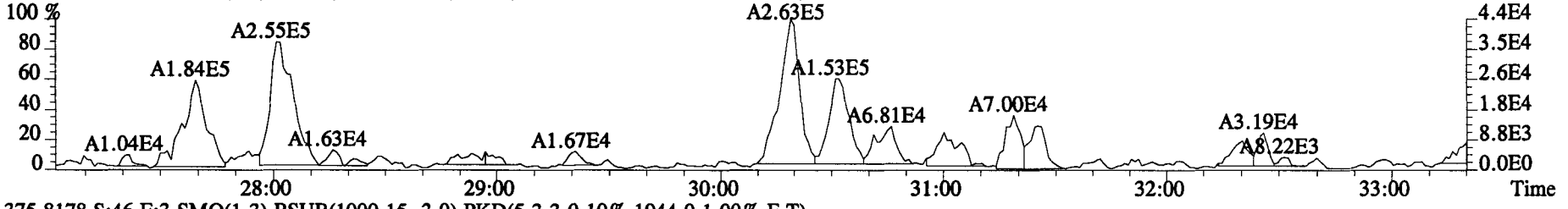


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES

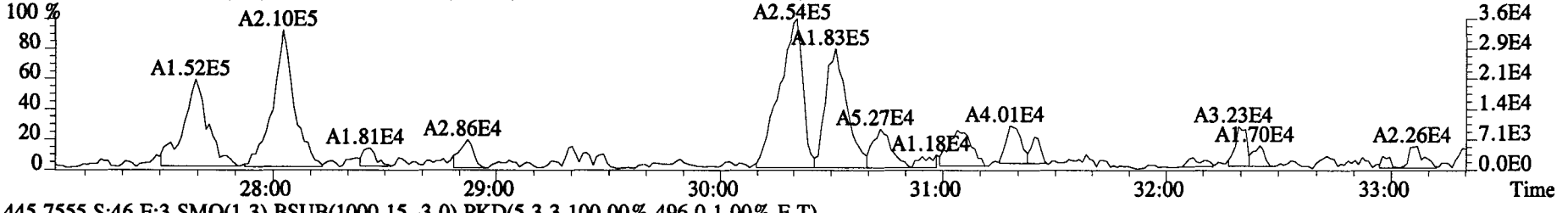
392.9760 S:46 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



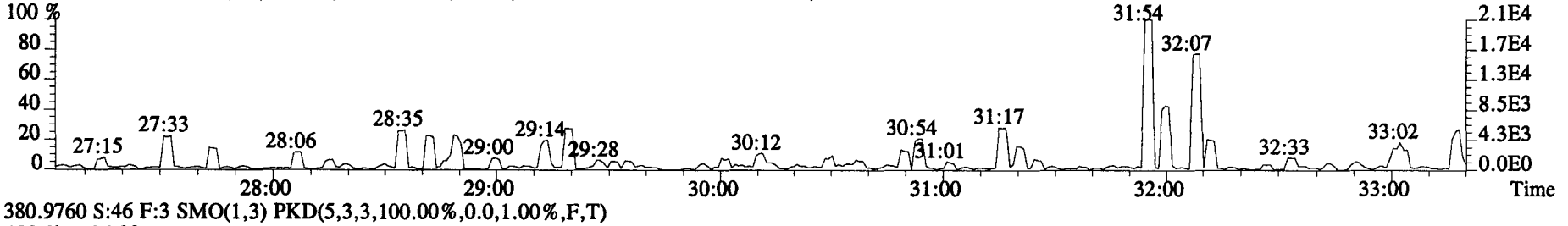
373.8208 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2040.0,1.00%,F,T)



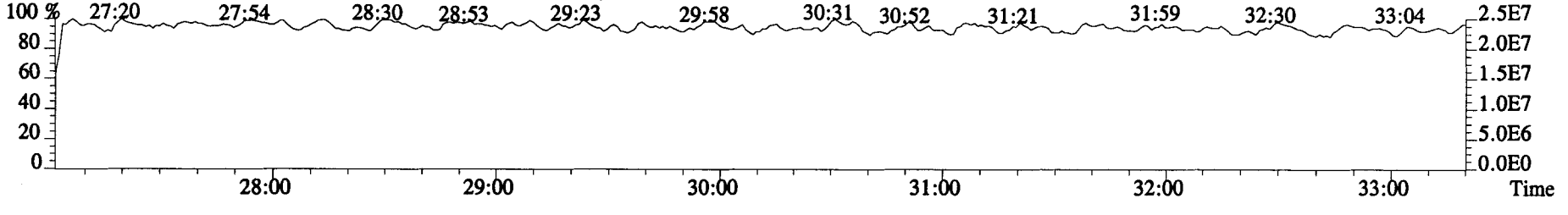
375.8178 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1944.0,1.00%,F,T)



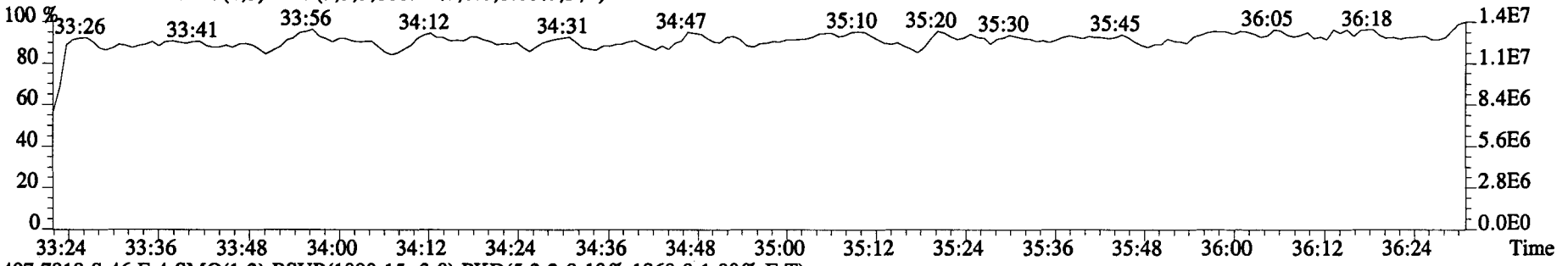
445.7555 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,496.0,1.00%,F,T)



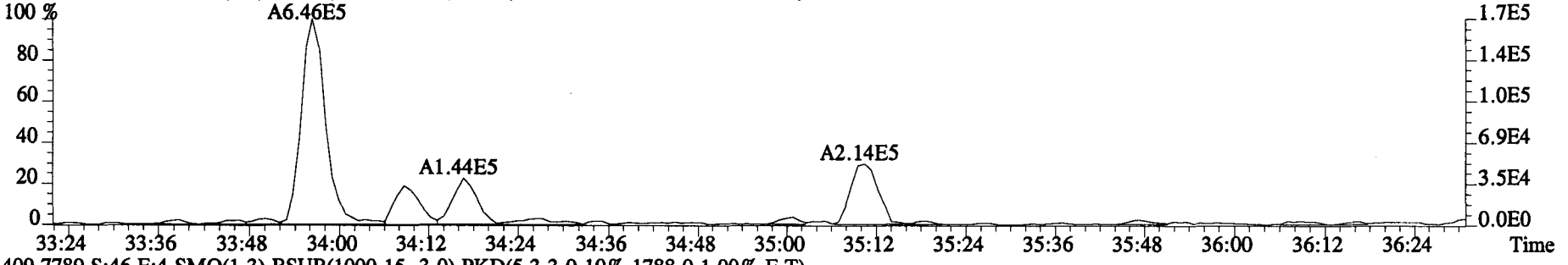
380.9760 S:46 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



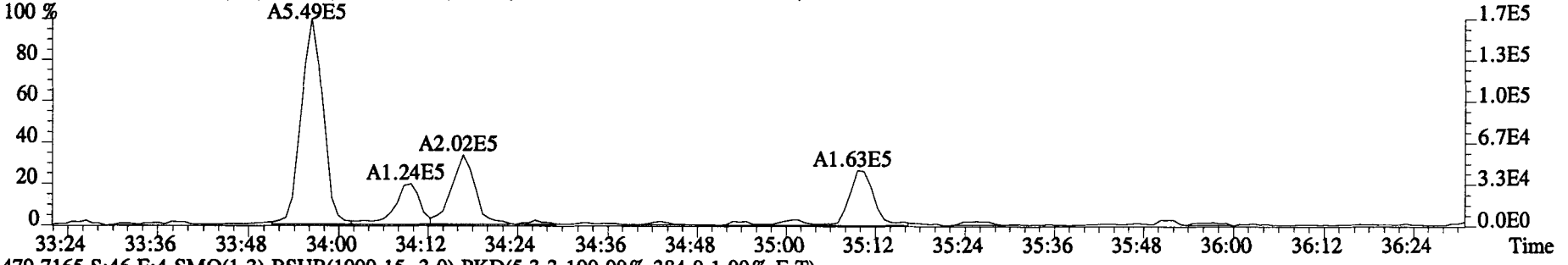
File:16AU10B1D5 #1-215 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
430.9728 S:46 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



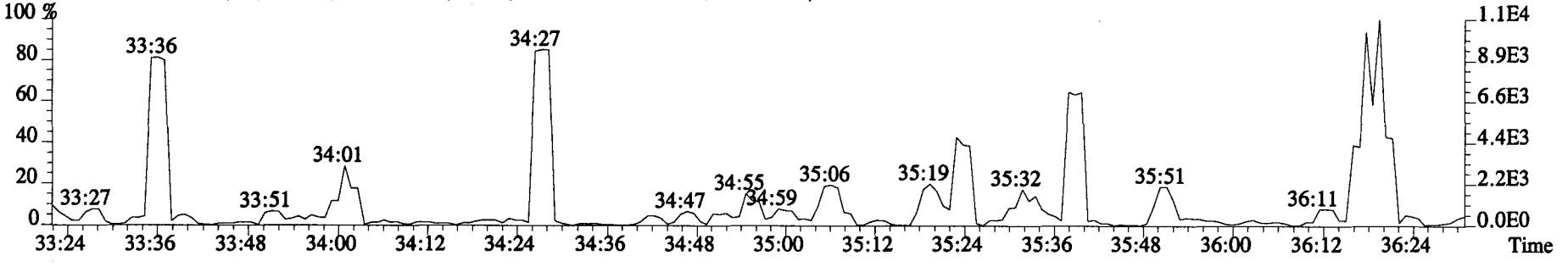
407.7818 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)



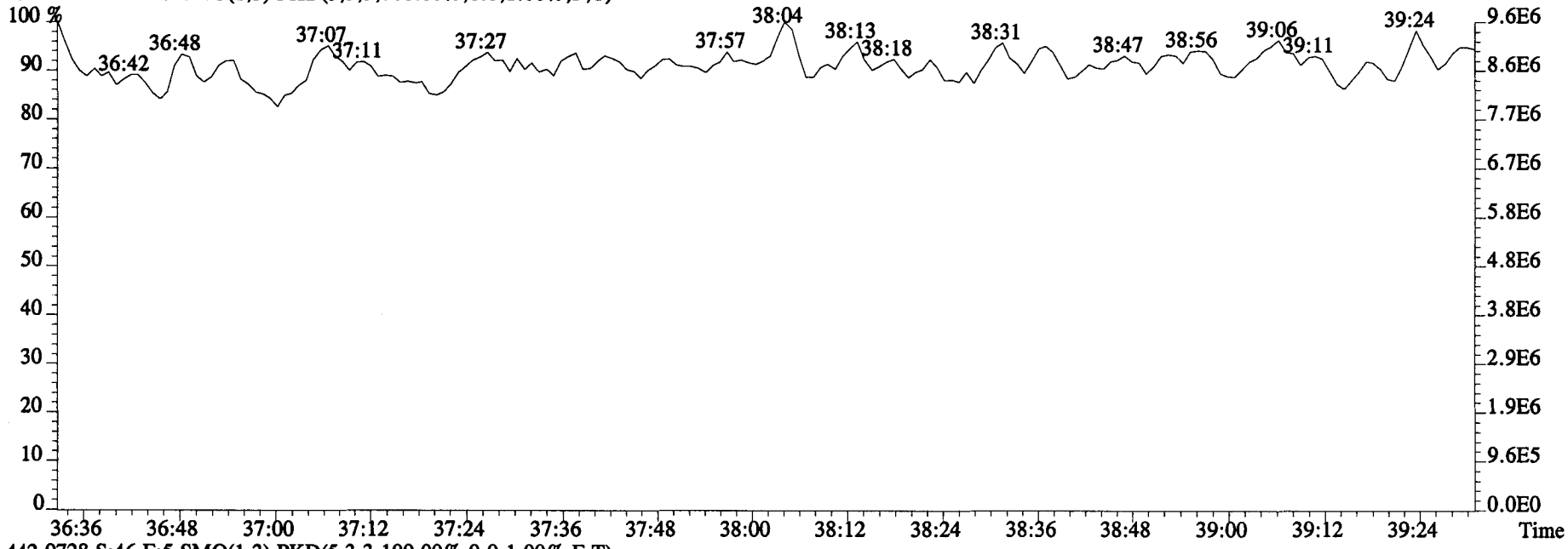
409.7789 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1788.0,1.00%,F,T)



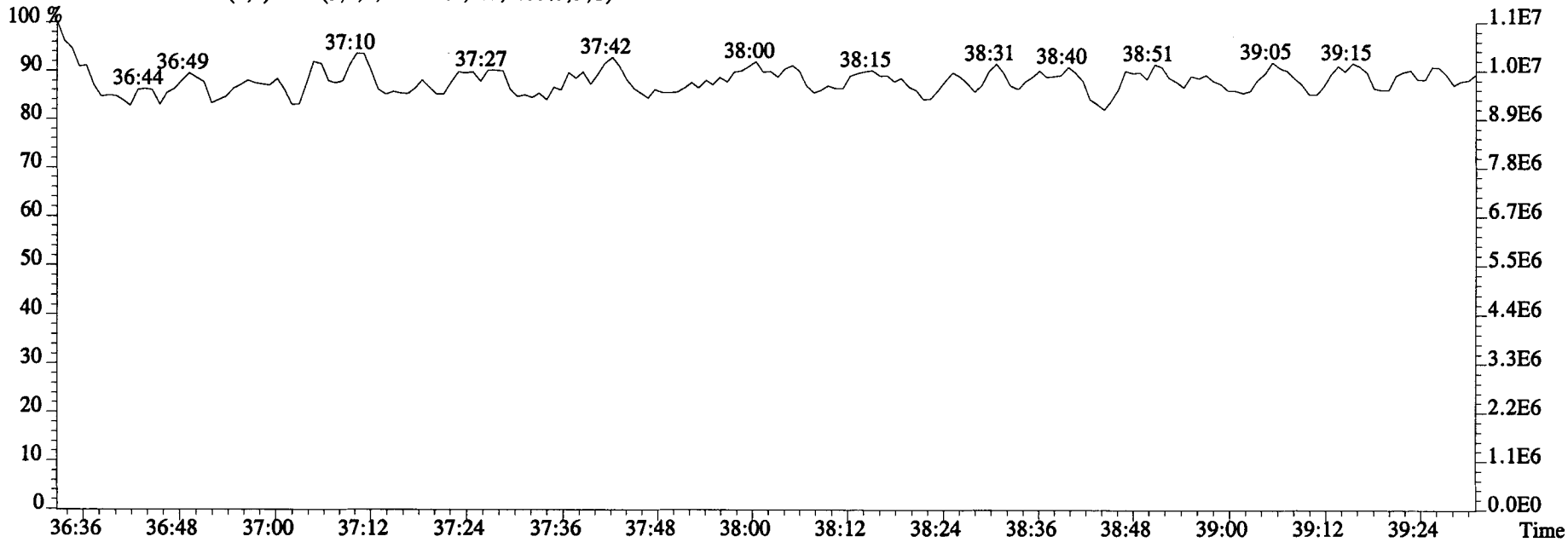
479.7165 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,384.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:10:16 GC EI+ Voltage SIR 70SE
Sample#46 Text:L5LAR-1-AA :G0H140454-2 Exp:DIOXINRES
454.9728 S:46 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:46 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2
Run #12 Filename: 18AU105D2 S: 7 I: 1 Results: 18au105d2db225os
Acquired: 18-AUG-10 18:18:45 Processed: 19-AUG-10 08:42:08
Run: 18AU105D2 Analyte: DB225 Cal: DB2250726105D2
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 g

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	88556500	0.80	y	15:02	-	149.969		-	-	n
13C-2,3,7,8-TCDF	143301200	0.77	y	16:10	2.11	3065.690		32.093	76.6	n
2,3,7,8-TCDF	342874	0.92	n	16:12	1.06	9.062	3,9	5.920	-	y
13C-2,3,7,8-TCDD	69410400	0.77	y	14:45	0.88	3543.720		34.119	88.6	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.64	*		9.556	-	n
37Cl-2,3,7,8-TCDD	76148200	1.00	y	14:45	1.29	2667.062		15.112	166.7	n

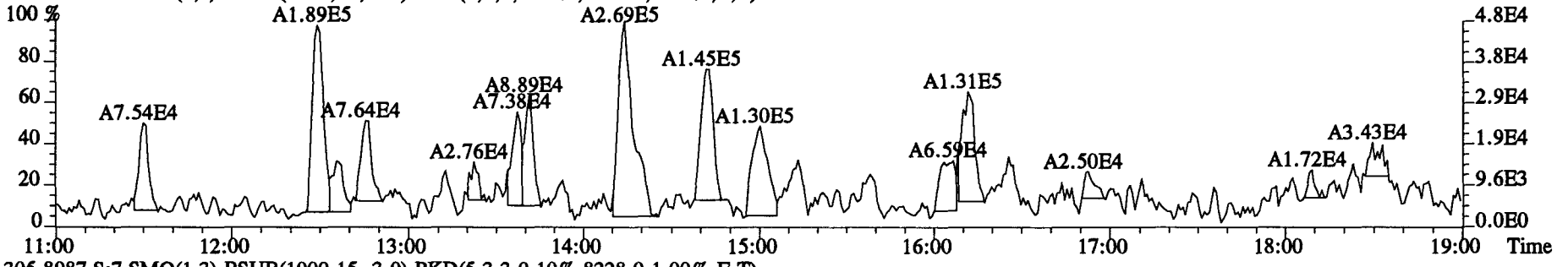
05
08-20-10

Run text: L5LAR-1-AA Sample text: L5LAR-1-AA :G0H140454-2
Run #12 Filename: 18AU105D2 S: 7 I: 1 Results: 18AU105D2DB225
Acquired: 18-AUG-10 18:18:45 Processed: 19-AUG-10 08:42:08
Run: 18AU105D2 Analyte: DB225 Cal: DB2250726105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000g

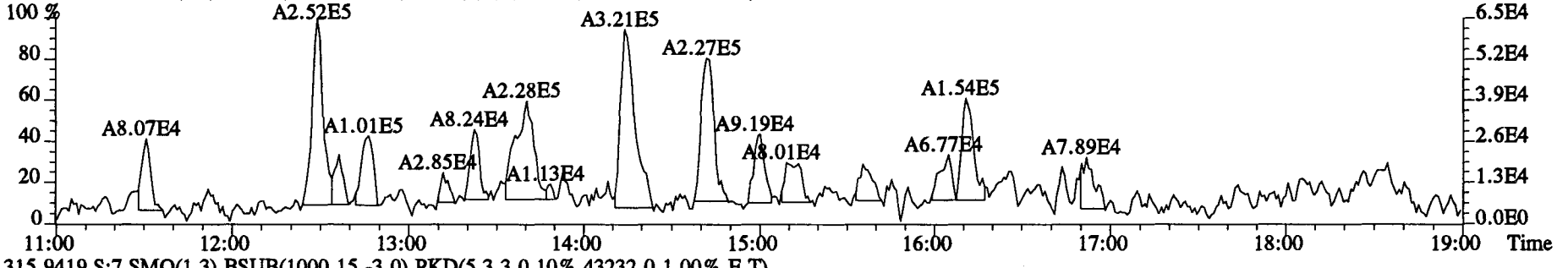
Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	88556500	0.80	y	15:02	-	149.97	-	-	n
13C-2,3,7,8-TCDF	143301200	0.77	y	16:10	2.11	3065.69	32.09	76.6	n
2,3,7,8-TCDF	284739	0.85	y	16:12	~~1.06~~ 0.85	~~73~~ 59.39	5.92	-	n
13C-2,3,7,8-TCDD	69410400	0.77	y	14:45	0.88	3543.72	34.12	88.6	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.64	*	9.56	-	n
37Cl-2,3,7,8-TCDD	76148200	1.00	y	14:45	1.29	2667.06	15.11	166.7	n

File:18AU105D2 #1-1242 Acq:18-AUG-2010 18:18:45 GC EI+ Voltage SIR 70SE
Sample#7 Text:L5LAR-1-AA :G0H140454-2 Exp:DB225RES

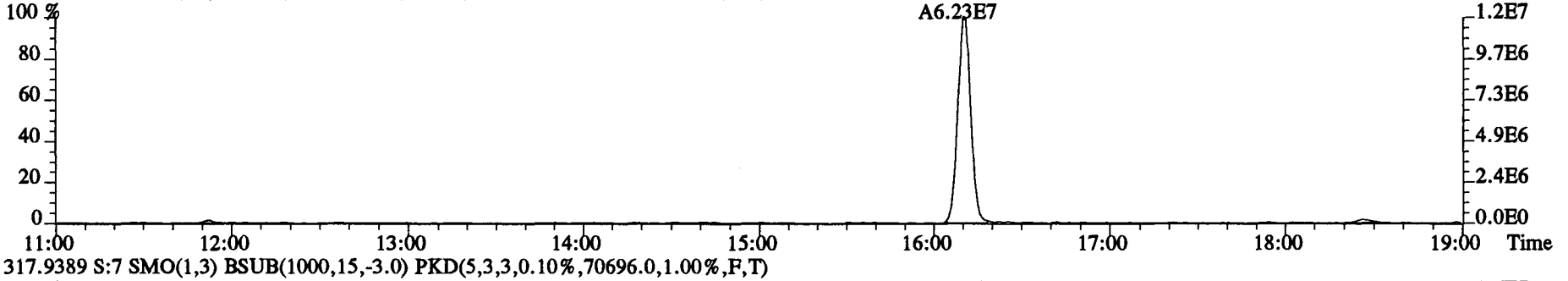
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6388.0,1.00%,F,T)



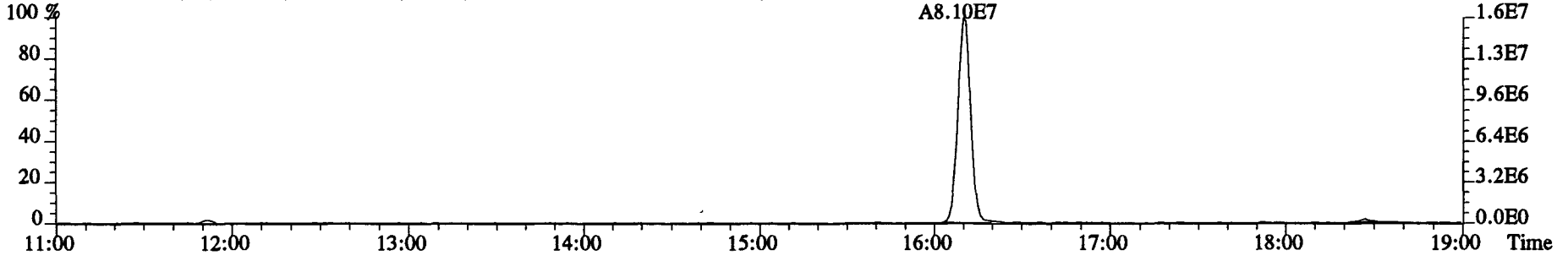
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8228.0,1.00%,F,T)



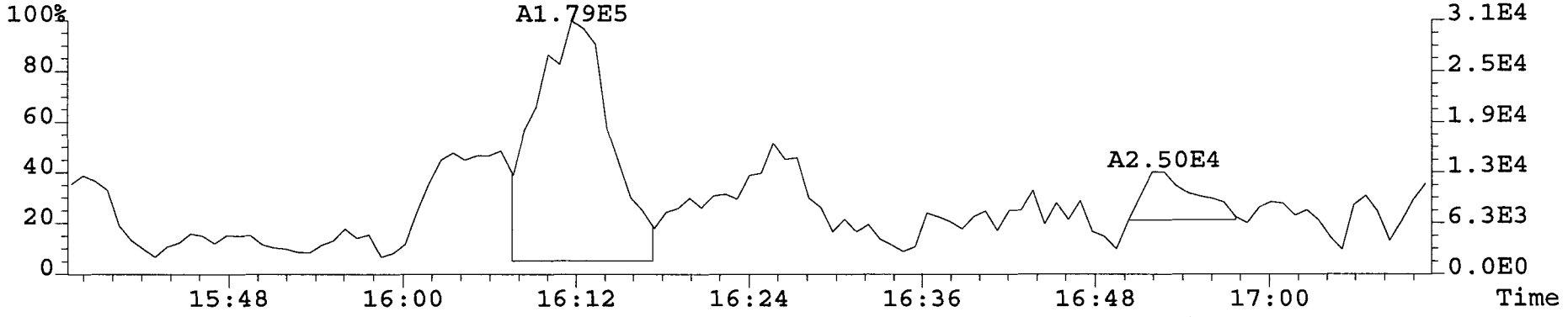
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43232.0,1.00%,F,T)



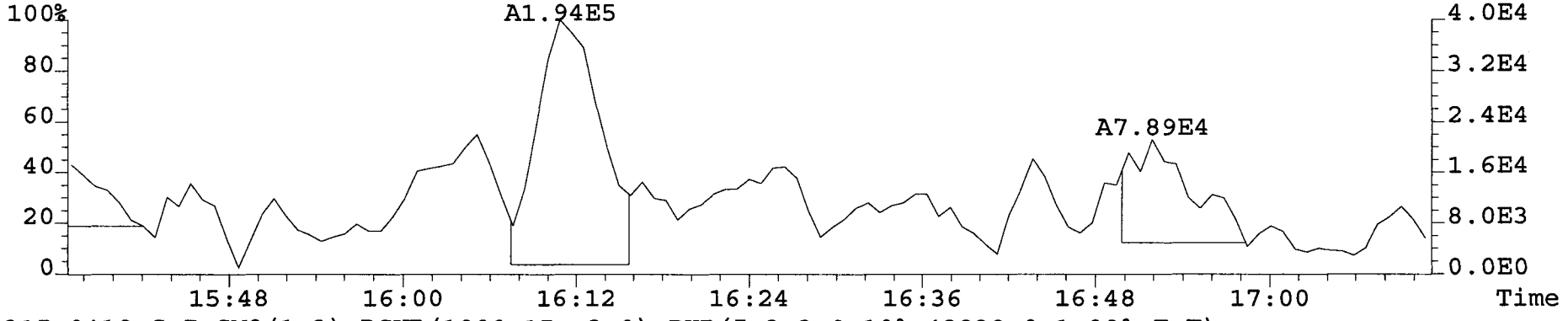
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,70696.0,1.00%,F,T)



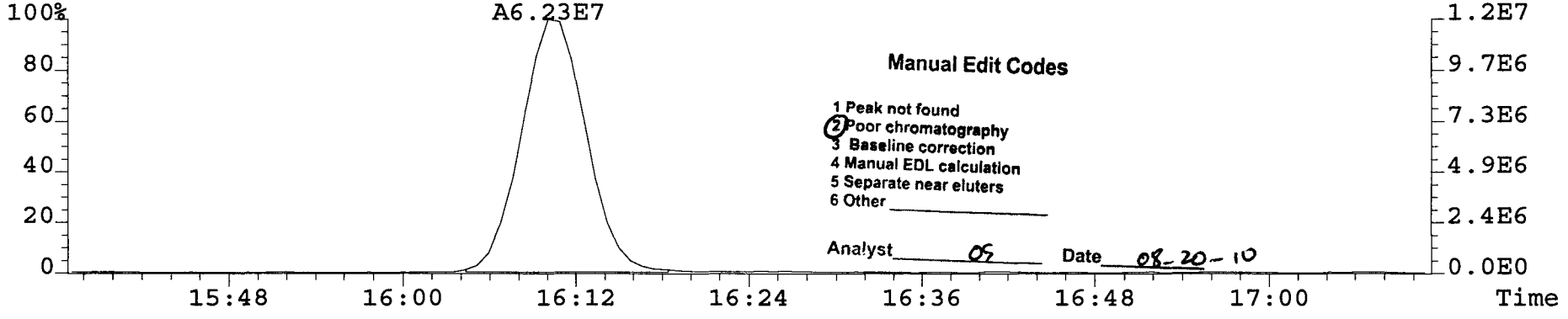
File:18AU105D2 #1-1242 Acq:18-AUG-2010 18:18:45 GC EI+ Voltage SIR 70SE
Sample#7 Text:L5LAR-1-AA :G0H140454-2 Exp:DB225RES
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6388.0,1.00%,F,T)



305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8228.0,1.00%,F,T)



315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43232.0,1.00%,F,T)

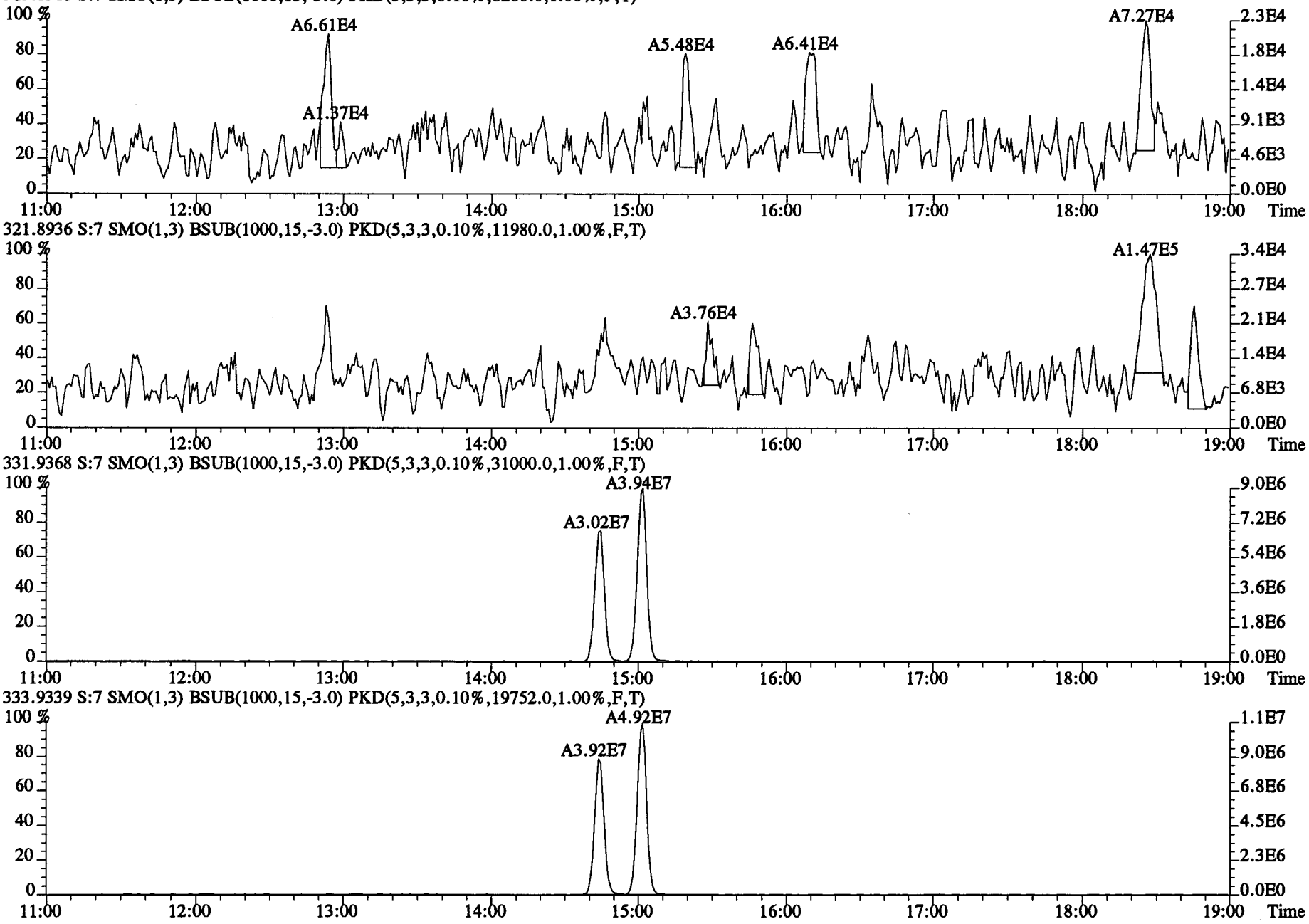


Manual Edit Codes

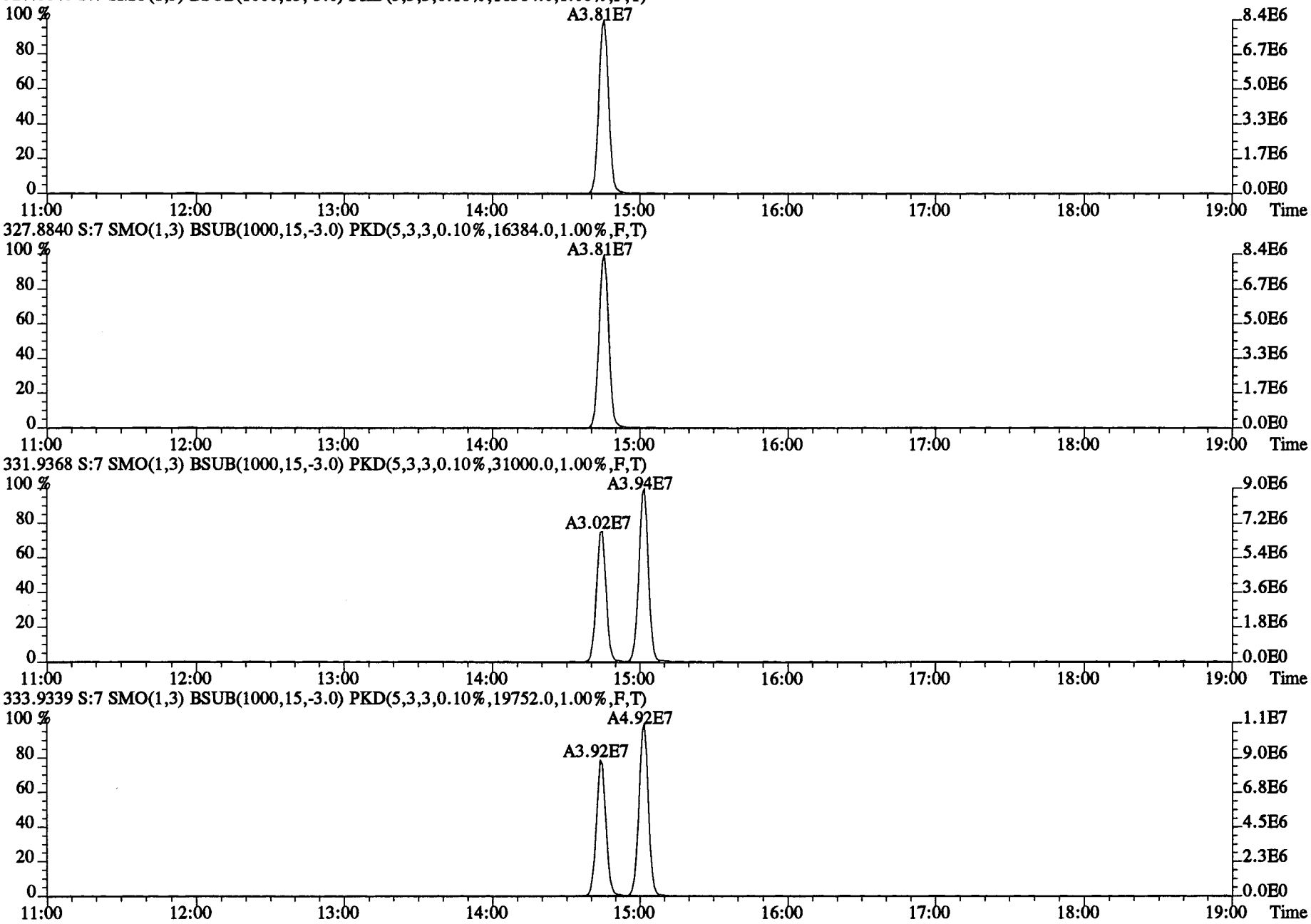
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst OS Date 08-20-10

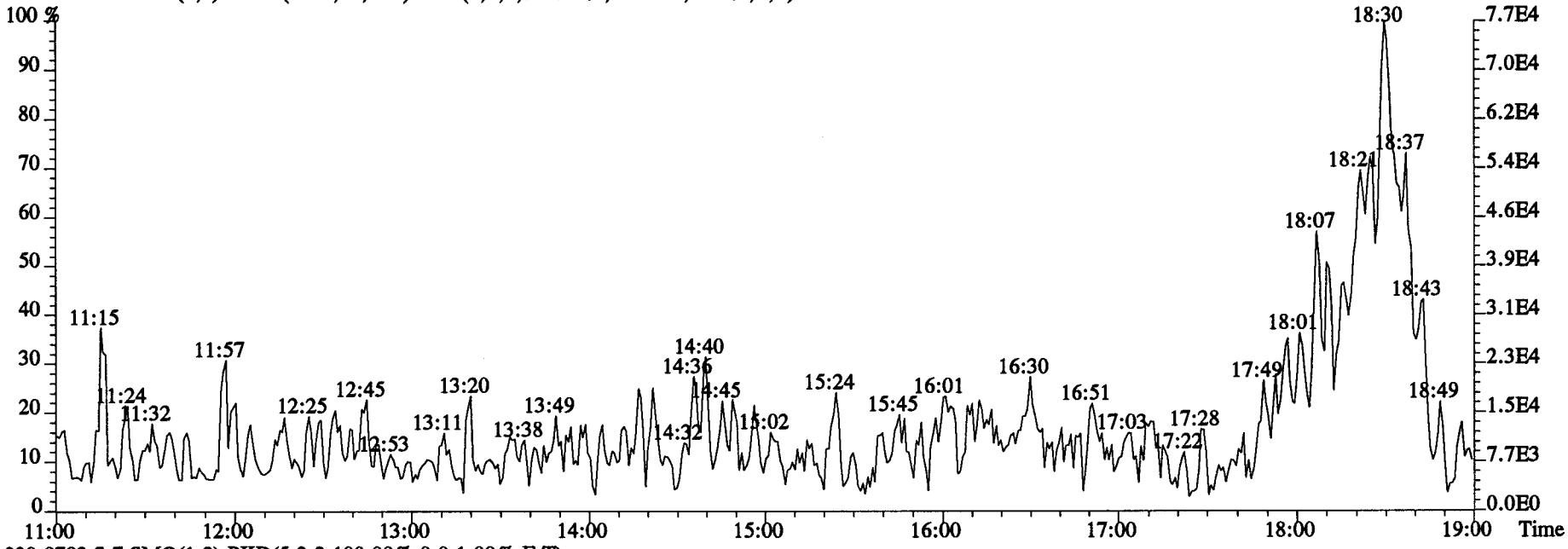
File:18AU105D2 #1-1242 Acq:18-AUG-2010 18:18:45 GC EI+ Voltage SIR 70SE
Sample#7 Text:L5LAR-1-AA :G0H140454-2 Exp:DB225RES



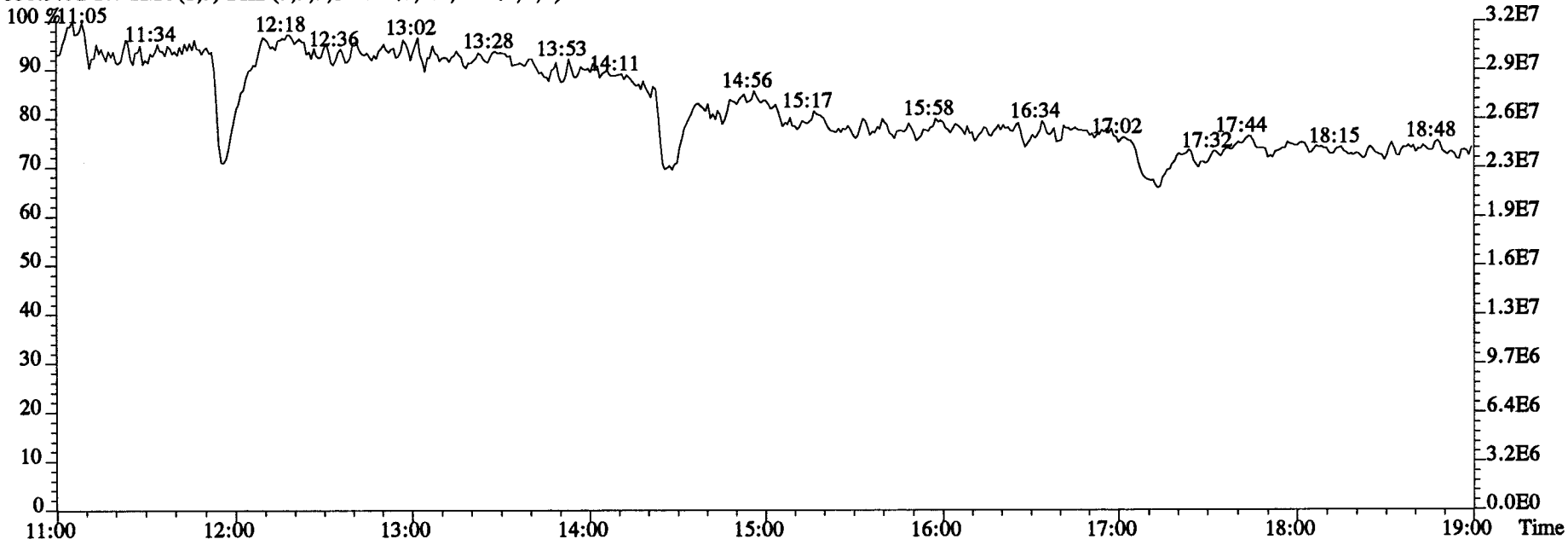
File:18AU105D2 #1-1242 Acq:18-AUG-2010 18:18:45 GC EI+ Voltage SIR 70SE
Sample#7 Text:L5LAR-1-AA :G0H140454-2 Exp:DB225RES



File:18AU105D2 #1-1242 Acq:18-AUG-2010 18:18:45 GC EI+ Voltage SIR 70SE
Sample#7 Text:L5LAR-1-AA :G0H140454-2 Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,11568.0,1.00%,F,T)



330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3
Run #13 Filename: 16AU10B1D5 S: 47 I: 1 Results: 16AU10B1D5TO9os
Acquired: 18-AUG-10 01:54:13 Processed: 18-AUG-10 10:46:52
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Samp

08-20-10

8/20/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	92746600	0.81	y	17:36	-	49.277	-	-	n
13C-2,3,7,8-TCDF	119033400	0.81	y	17:05	1.56	3287.278	0.406	82.2	n
2,3,7,8-TCDF	65175	0.78	y	17:06	0.87	2.503	~~1.870~~	-	n
Total TCDF	261045	0.55	n	14:08	0.87	~~10.025~~	~~1.870~~ 2.503	-	n
13C-2,3,7,8-TCDD	75479100	0.80	y	17:47	0.94	3480.356	4.779	87.0	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.96	*	2.452	-	n
Total TCDD	127228	1.32	n	15:05	0.96	~~7.043~~	2.452	-	n
37Cl-2,3,7,8-TCDD	72846800	1.00	y	17:48	1.22	3174.186	1.136	99.2	n
13C-1,2,3,7,8-PeCDF	75931000	1.67	y	22:04	1.06	3083.746	0.870	77.1	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*	2.558	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	2.818	-	n
Total F2 PeCDF	205038	1.92	n	21:36	1.03	~~10.486~~ 4.36 DL	2.681	-	n
Total F1 PeCDF	334051	0.32	n	14:32	1.03	~~17.084~~	~~1.957~~	-	n
13C-1,2,3,7,8-PeCDD	41343600	1.63	y	24:05	0.65	2759.302	1.691	69.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	5.142	-	n
Total PeCDD	166682	1.23	n	23:22	0.92	~~17.438~~ 13.21 DL	5.142	-	n
13C-1,2,3,7,8,9-HxCDD	44381700	1.30	y	32:04	-	31.224	-	-	n
13C-1,2,3,4,7,8-HxCDF	48612700	0.51	y	30:15	0.99	4443.237	4.931	111.1	n
1,2,3,4,7,8-HxCDF	52080	2.15	n	30:13	1.15	~~3.715~~	4.430	-	n
1,2,3,6,7,8-HxCDF	18426	0.83	n	30:27	1.24	~~1.220~~	4.111	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.22	*	4.196	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	4.312	-	n
Total HxCDF	203188	1.76	n	27:27	1.20	~~14.035~~	~~4.259~~ 4.43	-	n
13C-1,2,3,6,7,8-HxCDD	35324300	1.26	y	31:43	0.77	4145.925	1.493	103.6	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	4.249	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	3.950	-	n
1,2,3,7,8,9-HxCDD	17534	0.52	n	32:07	1.24	~~1.598~~	3.518	-	n
Total HxCDD	140734	1.07	y	27:20	1.13	~~13.988~~	~~3.882~~ 4.249	-	n
13C-1,2,3,4,6,7,8-HpCDF	38553400	0.42	y	33:54	0.98	3542.302	9.118	88.6	n
1,2,3,4,6,7,8-HpCDF	151346	1.39	n	33:54	1.35	11.634 Q	2.741	-	y
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.19	*	3.119	-	n
Total HpCDF	254878	1.39	n	33:54	1.27	~~20.106~~ 16.72	2.918	-	y
13C-1,2,3,4,6,7,8-HpCDD	31536400	1.09	y	34:48	0.81	3527.708	7.072	88.2	n
1,2,3,4,6,7,8-HpCDD	35537	1.93	n	34:50	1.03	4.392 J Q	2.515	-	n
Total HpCDD	270473	3.08	n	33:48	1.03	~~33.426~~ 12.82	2.515	-	n
13C-OCDD	36378000	0.95	y	37:27	0.62	5329.992	2.287	66.6	n
OCDF	128024	0.67	n	37:34	1.44	19.484 J Q	4.297	-	n

OCDD	141251	0.67	m	37:27	1.09	28.489	J	3.682	- y

Run text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3
Run #13 Filename: 16AU10B1D5 S: 47 I: 1 Results: 16AU10B1D5TO9
Acquired: 18-AUG-10 01:54:13 Processed: 18-AUG-10 10:46:52
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	92746600	0.81	y	17:36	-	49.28	-	-	n
13C-2,3,7,8-TCDF	119033400	0.81	y	17:05	1.56	3287.28	0.41	82.2	n
2,3,7,8-TCDF	65175	0.78	y	17:06	0.87	2.50	1.87	-	n
Total TCDF	261045	0.55	n	14:08	0.87	10.03	1.87	-	n
13C-2,3,7,8-TCDD	75479100	0.80	y	17:47	0.94	3480.36	4.78	87.0	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.96	*	2.45	-	n
Total TCDD	127228	1.32	n	15:05	0.96	7.04	2.45	-	n
37Cl-2,3,7,8-TCDD	72846800	1.00	y	17:48	1.22	3174.19	1.14	99.2	n
13C-1,2,3,7,8-PeCDF	75931000	1.67	y	22:04	1.06	3083.75	0.87	77.1	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*	2.56	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	0.98	*	2.82	-	n
Total F2 PeCDF	205038	1.92	n	21:36	1.03	10.49	2.68	-	n
Total F1 PeCDF	334051	0.32	n	14:32	1.03	17.08	1.96	-	n
13C-1,2,3,7,8-PeCDD	41343600	1.63	y	24:05	0.65	2759.30	1.69	69.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	5.14	-	n
Total PeCDD	166682	1.23	n	23:22	0.92	17.44	5.14	-	n
13C-1,2,3,7,8,9-HxCDD	44381700	1.30	y	32:04	-	31.22	-	-	n
13C-1,2,3,4,7,8-HxCDF	48612700	0.51	y	30:15	0.99	4443.24	4.93	111.1	n
1,2,3,4,7,8-HxCDF	52080	2.15	n	30:13	1.15	3.72	4.43	-	n
1,2,3,6,7,8-HxCDF	18426	0.83	n	30:27	1.24	1.22	4.11	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.22	*	4.20	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	4.31	-	n
Total HxCDF	203188	1.76	n	27:27	1.20	14.03	4.26	-	n
13C-1,2,3,6,7,8-HxCDD	35324300	1.26	y	31:43	0.77	4145.92	1.49	103.6	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.03	*	4.25	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.11	*	3.95	-	n
1,2,3,7,8,9-HxCDD	17534	0.52	n	32:07	1.24	1.60	3.52	-	n
Total HxCDD	140734	1.07	y	27:20	1.13	13.99	3.88	-	n
13C-1,2,3,4,6,7,8-HpCDF	38553400	0.42	y	33:54	0.98	3542.30	9.12	88.6	n
1,2,3,4,6,7,8-HpCDF	156413	1.35	n	33:54	1.35	12.02	2.74	-	n
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.19	*	3.12	-	n
Total HpCDF	259945	1.35	n	33:54	1.27	20.50	2.92	-	n
13C-1,2,3,4,6,7,8-HpCDD	31536400	1.09	y	34:48	0.81	3527.71	7.07	88.2	n
1,2,3,4,6,7,8-HpCDD	35537	1.93	n	34:50	1.03	4.39	2.52	-	n
Total HpCDD	270473	3.08	n	33:48	1.03	33.43	2.52	-	n
13C-OCDD	36378000	0.95	y	37:27	0.62	5329.99	2.29	66.6	n
OCDF	128024	0.67	n	37:34	1.44	19.48	4.30	-	n
OCDD	149971	0.71	n	37:27	1.09	30.25	3.68	-	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:9
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	5.01 of which	1.25 named and	3.76	unnamed
Conc:	10.03 of which	2.50 named and	7.52	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:08	0.55	n	1.00	11337	1.9	n	n
						20650	2.0	n	n
	2	14:36	1.42	n	0.46	9554	1.4	n	n
						6746	0.9	n	n
	3	14:43	4.89	n	0.46	33022	5.5	y	n
						6746	0.9	n	n
	4	15:23	0.95	n	1.60	22387	2.0	n	n
						23482	2.7	n	n
	5	16:27	0.81	y	0.80	9356	1.2	n	n
						11540	1.8	n	n
	6	16:31	0.32	n	0.48	5447	0.9	n	n
						17230	3.2	y	n
	7	16:45	0.72	y	2.06	22457	2.3	n	n
						31155	3.1	y	n
2,3,7,8-TCDF	8	17:06	0.78	y	2.50	28493	3.6	y	n
						36682	3.7	y	n
	9	19:51	1.63	n	0.67	15991	2.2	n	n
						9794	1.0	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:7
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	3.52 of which	* named and	3.52	unnamed
Conc:	7.04 of which	* named and	7.04	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	15:05	1.32	n	0.77	10417	1.4	n	n
						7889	1.5	n	n

2	15:38	2.06	n	0.68	14325	1.4	n	n
					6966	1.4	n	n
3	16:18	1.40	n	1.12	16021	1.5	n	n
					11457	2.3	n	n
4	16:44	1.30	n	0.66	8721	1.0	n	n
					6701	1.5	n	n
5	18:08	0.82	y	1.46	11807	1.4	n	n
					14477	2.7	n	n
6	18:18	3.16	n	0.96	30807	3.8	y	n
					9756	2.4	n	n
7	20:11	1.77	n	1.40	25249	3.7	y	n
					14263	3.5	y	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:7
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	5.24 of which	* named and	5.24	unnamed
Conc:	10.49 of which	* named and	10.49	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:36	1.92	n	1.55	22712	2.9	n	n
						11847	1.8	n	n
	2	21:52	0.67	n	0.66	7865	2.6	n	n
						11736	1.4	n	n
	3	21:58	1.33	y	1.40	15646	4.8	y	n
						11736	1.4	n	n
	4	23:11	0.92	n	0.88	10437	3.8	y	n
						11406	1.5	n	n
	5	23:44	0.55	n	4.36 DL	51807	7.6	y	n
						94937	5.7	y	n
	6	24:07	0.34	n	0.85	10051	2.2	n	n
						29586	2.4	n	n
	7	25:53	4.74	n	0.80	28912	4.9	y	n
						6105	0.8	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:16
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	8.54	of which		* named and	8.54	unnamed		
Conc:	17.08	of which		* named and	17.08	unnamed		

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:32	0.32	n	0.36	4268	1.9	n	n
						13543	1.8	n	n
	2	14:37	0.69	n	0.78	9284	3.8	y	n
						13543	1.8	n	n
	3	14:50	0.37	n	0.74	8848	3.4	y	n
						23944	4.3	y	n
	4	15:12	0.42	n	2.66	31643	9.5	y	n
						75875	11.9	y	n
	5	15:30	0.64	n	0.93	11092	5.1	y	n
						17280	2.2	n	n
	6	15:48	2.30	n	1.02	17976	7.7	y	n
						7821	1.4	n	n
	7	16:32	0.38	n	0.41	4916	2.2	n	n
						13063	2.0	n	n
	8	16:38	0.55	n	0.60	7163	2.0	n	n
						13063	2.0	n	n
	9	17:21	1.50	y	0.93	10895	2.8	n	n
						7268	1.4	n	n
	10	17:38	0.40	n	0.70	8292	3.6	y	n
						20568	2.4	n	n
	11	17:46	0.08	n	0.15	1766	0.8	n	n
						22175	3.8	y	n
	12	18:27	0.58	n	1.20	14262	5.4	y	n
						24499	4.2	y	n
	13	18:46	0.46	n	3.93	46720	16.3	y	n
						101126	8.6	y	n
	14	19:04	0.21	n	0.83	9831	4.5	y	n
						46281	5.1	y	n
	15	19:15	6.15	n	0.97	45706	12.2	y	n
						7432	1.3	n	n
	16	19:49	0.96	n	0.87	10282	2.9	n	n

					10671	1.8	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	8.72	of which	* named and	8.72	unnamed
Conc:	17.44	of which	* named and	17.44	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	23:22	1.23	n	2.27	13167	2.8	n	n
						10702	1.7	n	n
	2	23:39	0.44	n	0.91	5308	1.2	n	n
						11962	3.1	y	n
	3	23:47	2.19	n	13.21	108680	12.6	y	n
						49529	8.2	y	n
	4	26:18	5.82	n	1.04	22801	3.4	y	n
						3917	0.8	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:7
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC┐ Cal: TO90727101D5 Results: 16AU10B1┐

Amount:	7.02 of which	2.47 named and	4.55	unnamed
Conc:	14.03 of which	4.94 named and	9.10	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:27	1.76	n	1.10	12642	1.9	n	n
						7181	1.7	n	n
	2	27:34	1.10	y	3.18	24285	3.2	y	n
						22089	4.3	y	n
	3	27:58	1.08	y	2.52	19092	1.8	n	n
						17626	2.8	n	n
1,2,3,4,7,8-HxCDF	4	30:13	2.15	n	3.72	50036	2.9	n	n
						23250	3.0	n	n
1,2,3,6,7,8-HxCDF	5	30:27	0.83	n	1.22	10200	1.3	n	n
						12340	1.6	n	n
	6	30:34	1.49	n	1.90	18349	2.4	n	n
						12340	1.6	n	n
	7	30:54	4.95	n	0.40	12944	1.3	n	n
						2617	0.5	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC┐ Cal: TO90727101D5 Results: 16AU10B1┐

Amount:	6.99 of which	0.80 named and	6.20	unnamed
Conc:	13.99 of which	1.60 named and	12.39	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:20	1.07	y	1.84	9467	1.8	n	n
						8807	1.5	n	n
	2	29:04	1.23	y	1.99	10913	2.6	n	n
						8847	1.4	n	n
	3	29:09	1.46	n	1.99	12956	2.8	n	n
						8847	1.4	n	n
	4	30:02	0.56	n	0.93	5094	1.4	n	n

						9037	1.7	n	n
	5	31:17	1.10	y	2.80	14559	2.5	n	n
						13280	1.9	n	n
	6	31:23	1.13	y	2.85	15028	3.9	y	n
						13280	1.9	n	n
1,2,3,7,8,9-HxCDD	7	32:07	0.52	n	1.60	9706	1.8	n	n
						18595	2.1	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	10.25 of which	6.01 named and	4.24	unnamed
Conc:	20.50 of which	12.02 named and	8.47	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:54	1.35	n	12.02	103465	13.0	y	n
						76673	15.4	y	n
	2	34:06	1.74	n	1.51	15777	2.1	n	n
						9076	2.1	n	n
	3	34:16	1.03	y	5.09	31581	4.5	y	n
						30573	6.3	y	n
	4	35:39	1.08	y	1.87	11852	1.5	n	n
						11011	2.8	n	n

Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? yes #Hom:4
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	10.05 of which	5.82 named and	4.24	unnamed
Conc:	20.11 of which	11.63 named and	8.47	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:54	1.39	n	11.63	103465	13.0	y	n
						74189	15.8	y	y
	2	34:06	1.74	n	1.51	15777	2.1	n	n
						9076	2.1	n	n
	3	34:16	1.03	y	5.09	31581	4.5	y	n
						30573	6.3	y	n
	4	35:39	1.08	y	1.87	11852	1.5	n	n
						11011	2.8	n	n

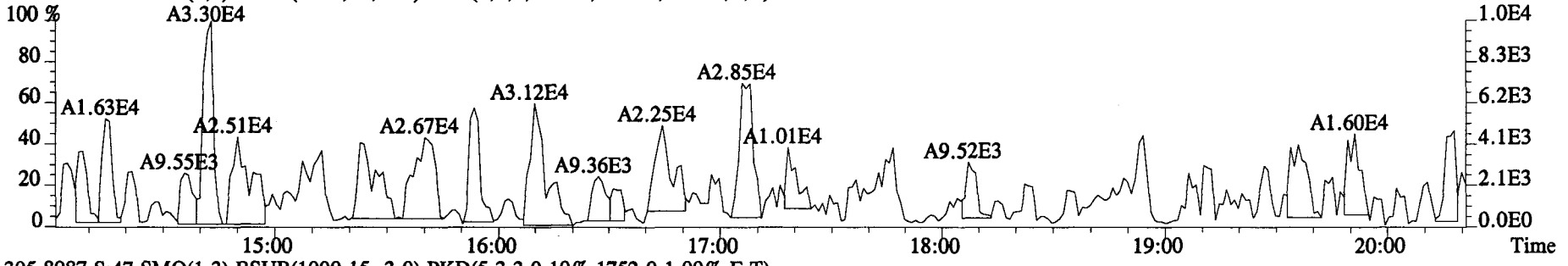
Run Text: L5LAV-1-AA Sample text: L5LAV-1-AA :G0H140454-3

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:11
Run: 13 File: 16AU10B1D5 S:47 Acq:18-AUG-10 01:54:13
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

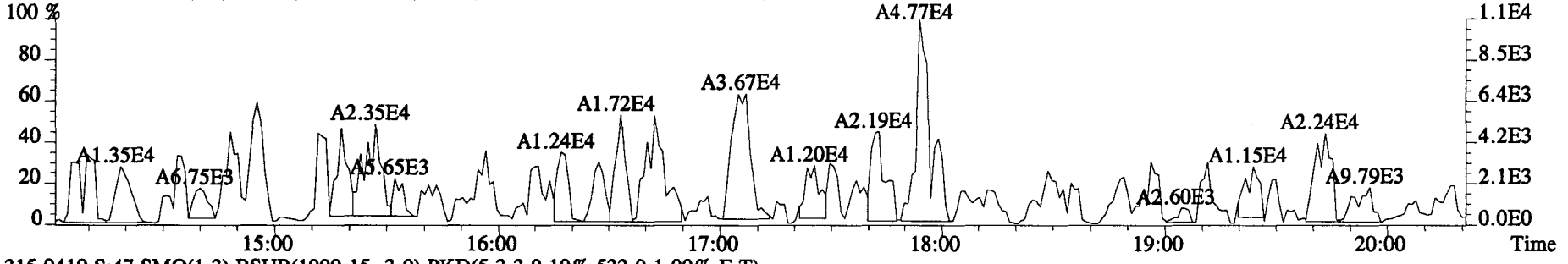
Amount:	16.71 of which	2.20 named and	14.52 unnamed
Conc:	33.43 of which	4.39 named and	29.03 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	33:48	3.08	n	0.75	9163	2.8	n	n
						2978	1.3	n	n
	2	33:54	1.91	n	3.18	24103	5.8	y	n
						12614	4.3	y	n
	3	34:12	0.92	y	8.43	32649	7.8	y	n
						35551	9.2	y	n
1,2,3,4,6,7,8-HpCDD	4	34:50	1.93	n	4.39	33680	8.3	y	n
						17420	7.5	y	n
	5	35:00	0.71	n	7.62	31425	7.8	y	n
						44557	12.6	y	n
	6	35:08	1.94	n	2.36	18198	4.8	y	n
						9358	4.6	y	n
	7	35:12	1.77	n	1.01	7092	1.9	n	n
						4015	2.0	n	n
	8	35:17	0.93	y	0.85	3288	1.1	n	n
						3550	1.0	n	n
	9	35:33	5.35	n	0.89	18849	3.2	y	n
						3520	1.3	n	n
	10	35:51	2.93	n	1.22	14244	3.5	y	n
						4859	2.4	n	n
	11	36:31	1.06	y	2.73	11359	3.5	y	n
						10716	7.1	y	n

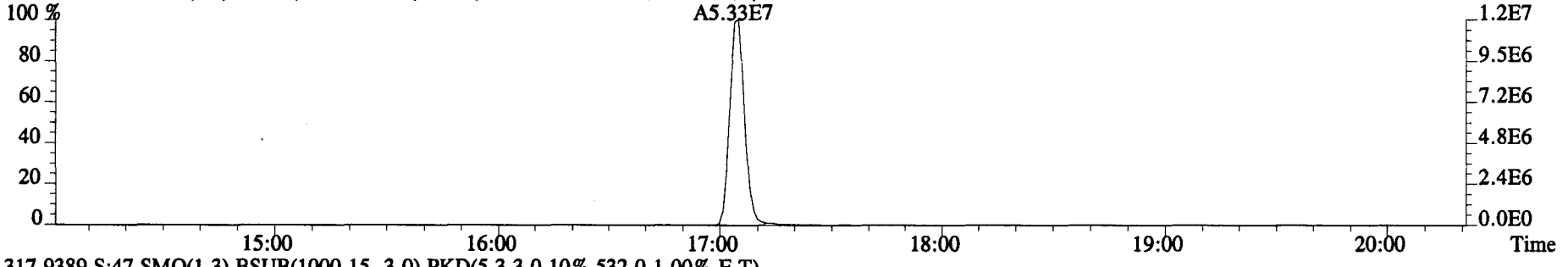
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
303.9016 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



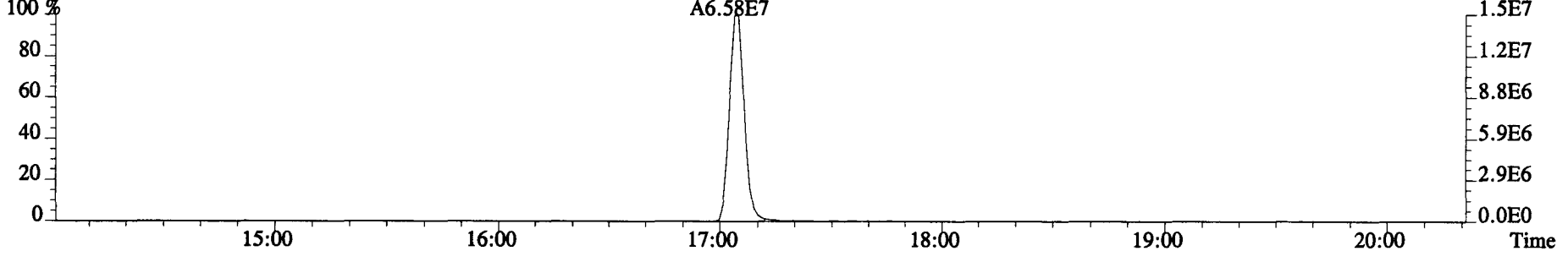
305.8987 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1752.0,1.00%,F,T)



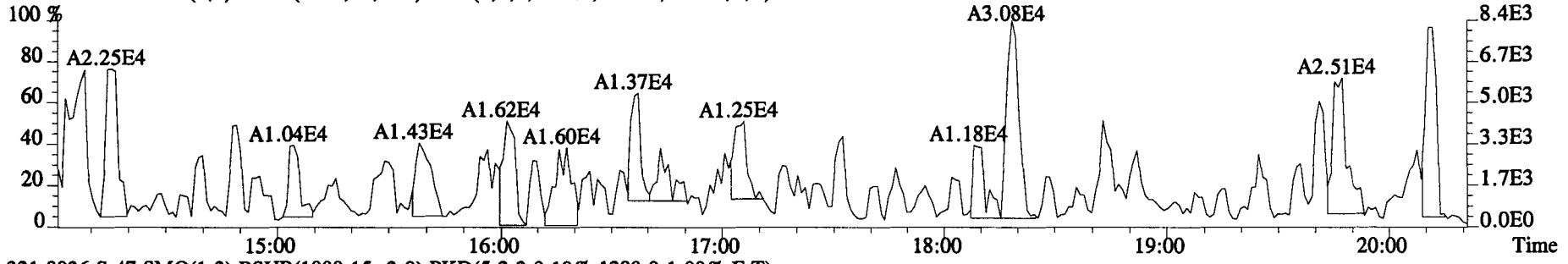
315.9419 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



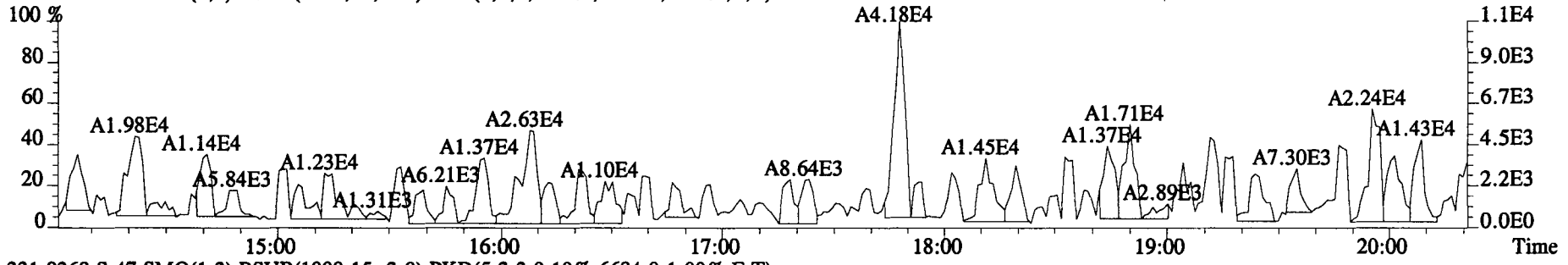
317.9389 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



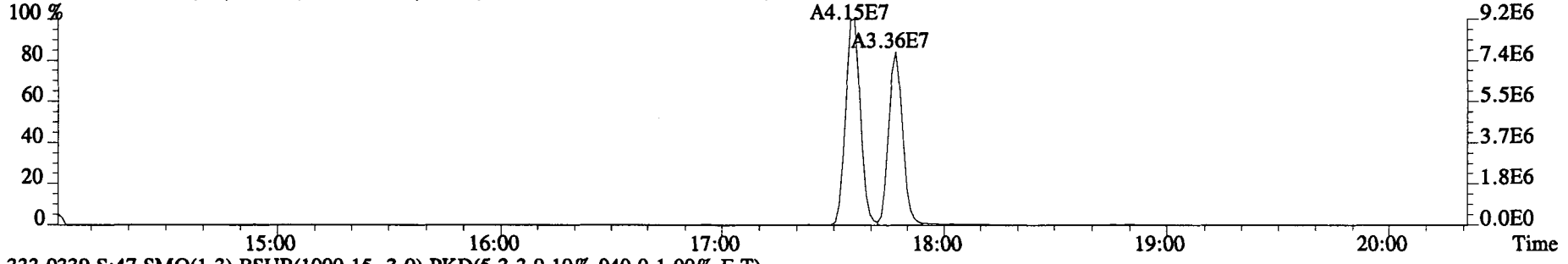
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
319.8965 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)



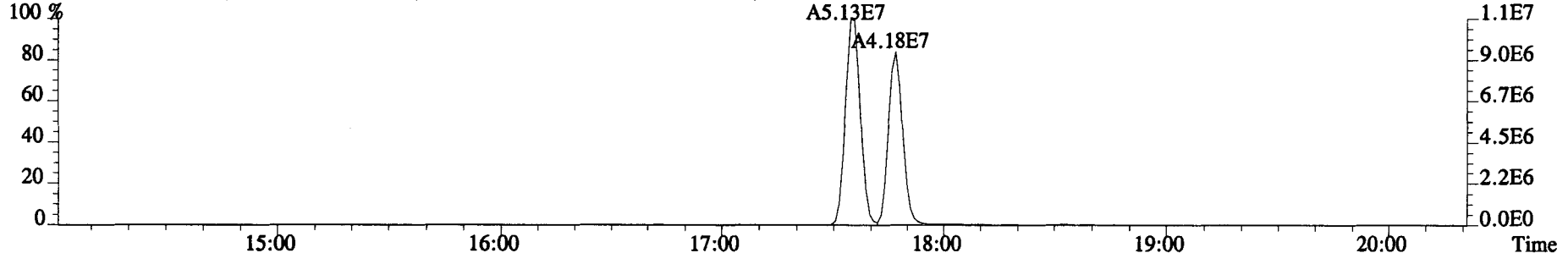
321.8936 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1280.0,1.00%,F,T)



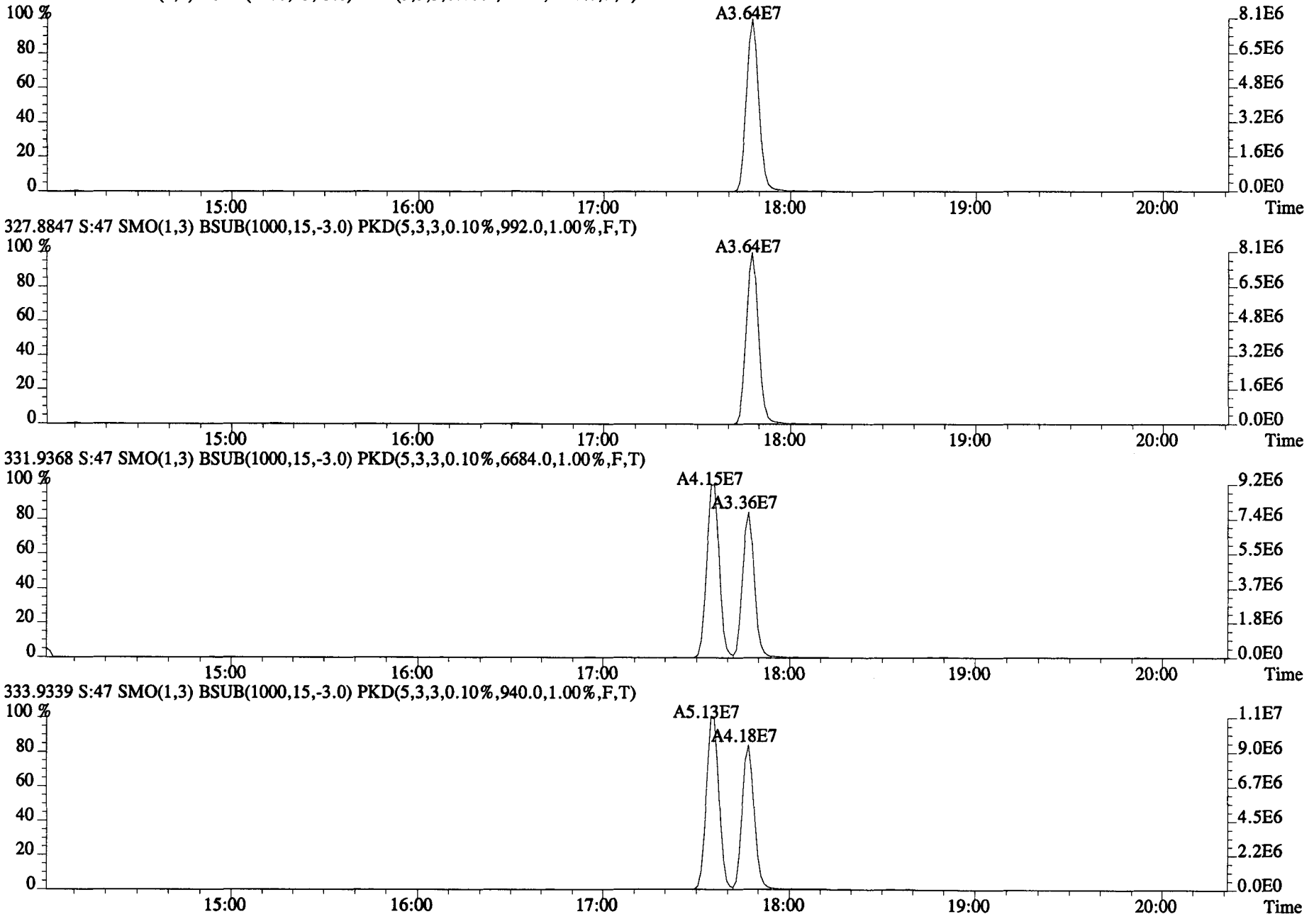
331.9368 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6684.0,1.00%,F,T)



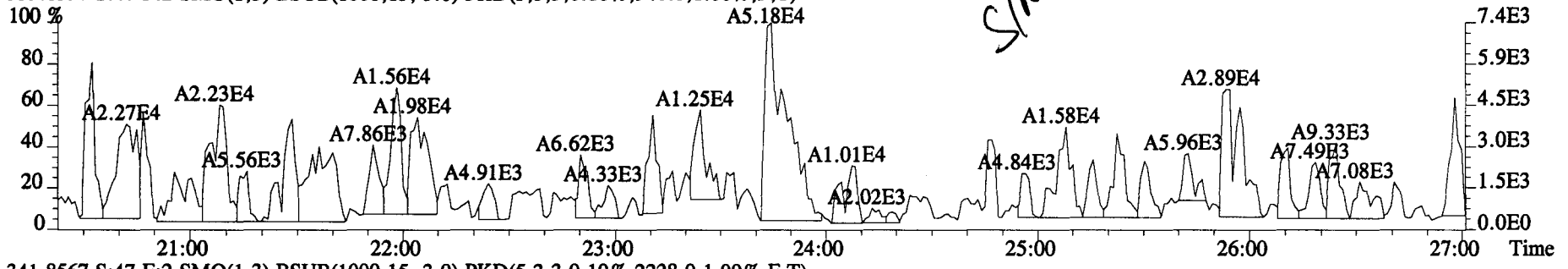
333.9339 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,940.0,1.00%,F,T)

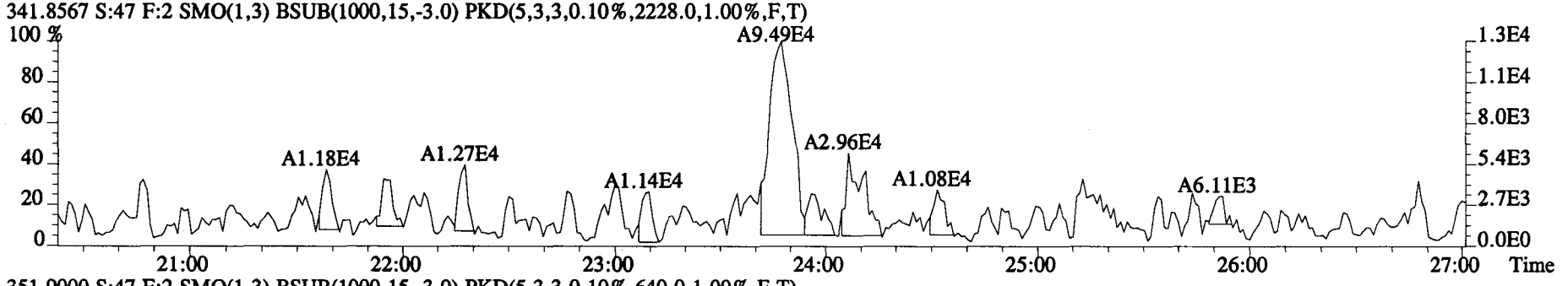


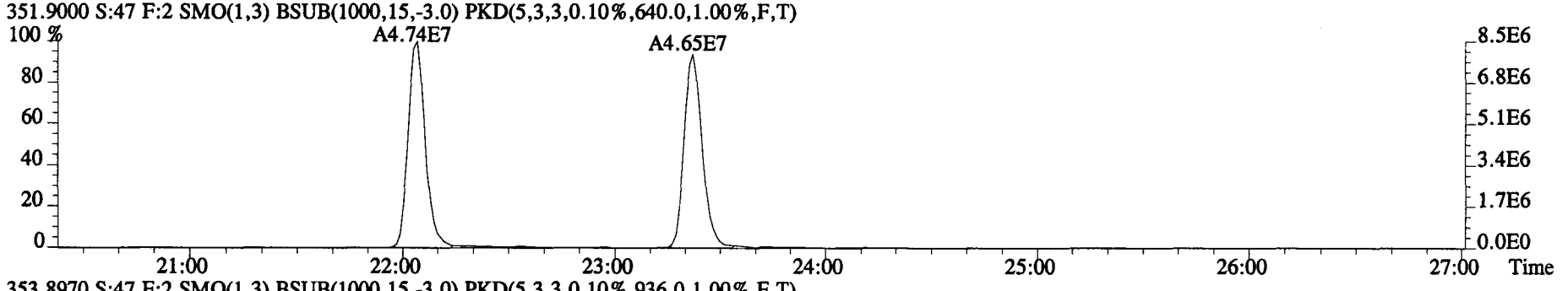
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES

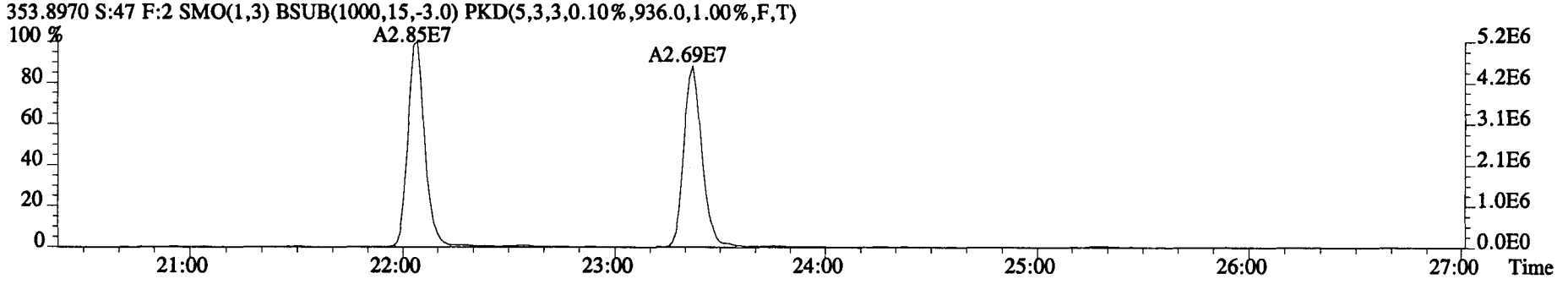


File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES

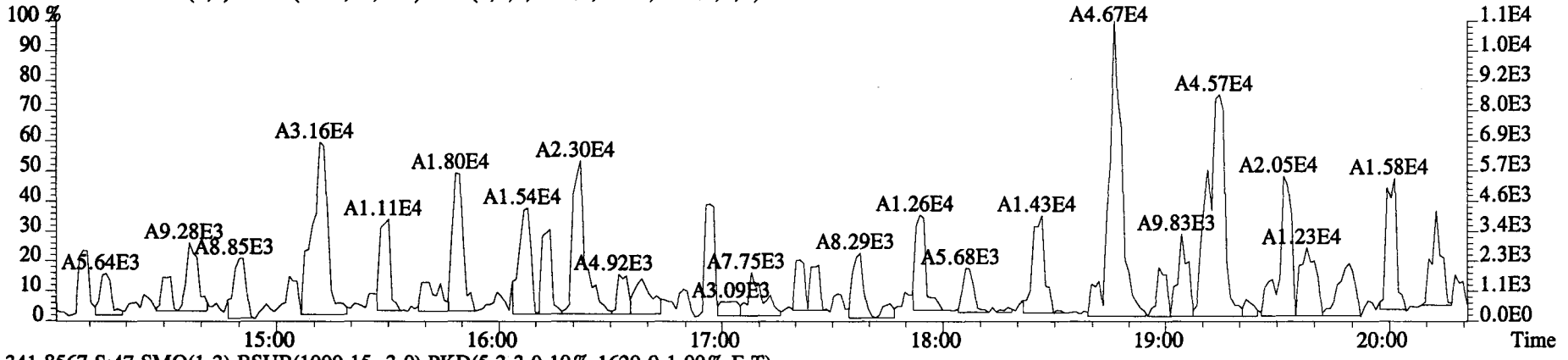




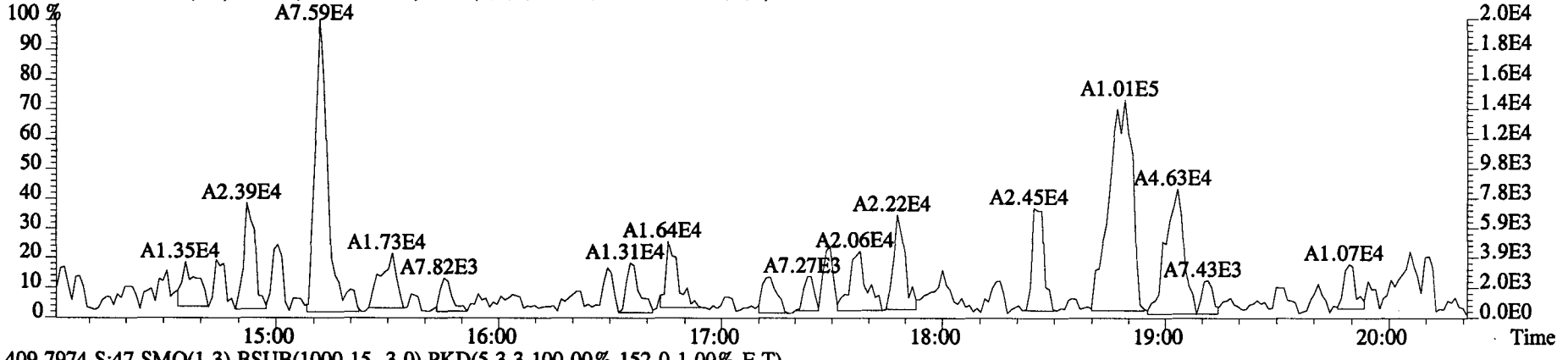




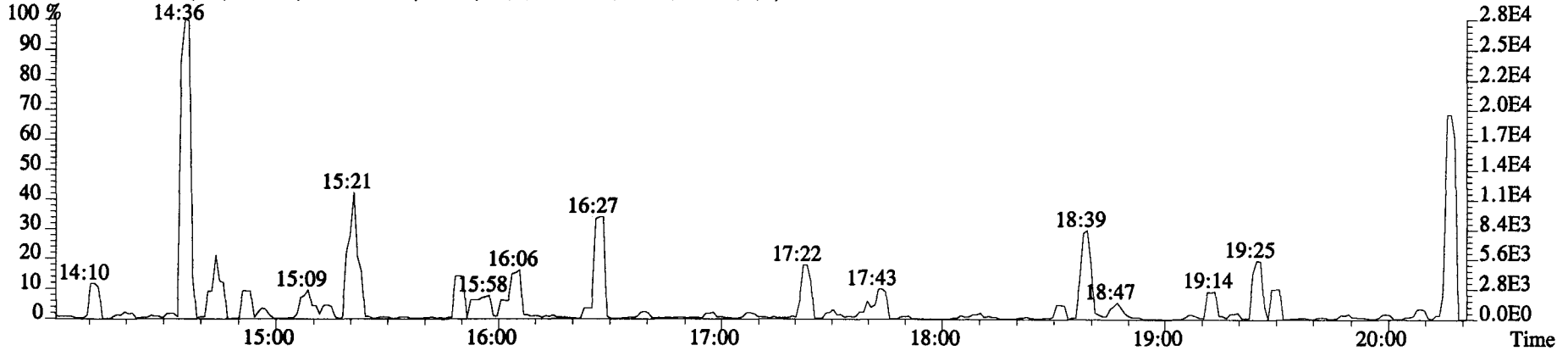
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
339.8597 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,692.0,1.00%,F,T)



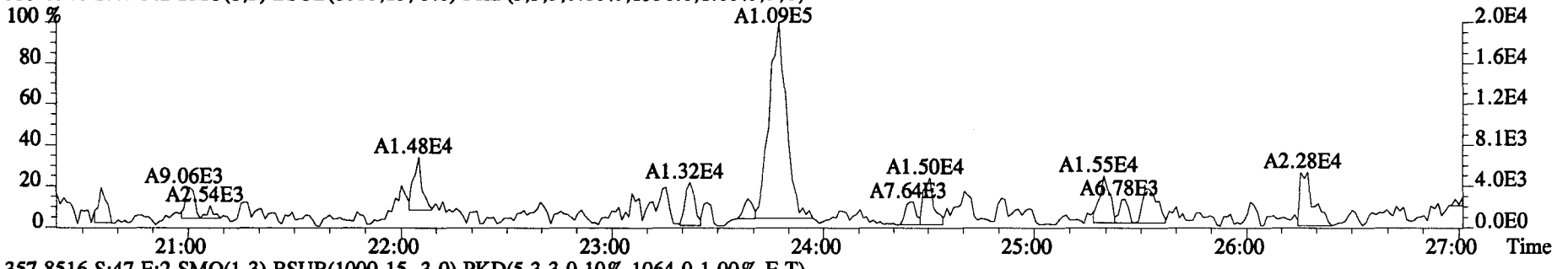
341.8567 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1620.0,1.00%,F,T)



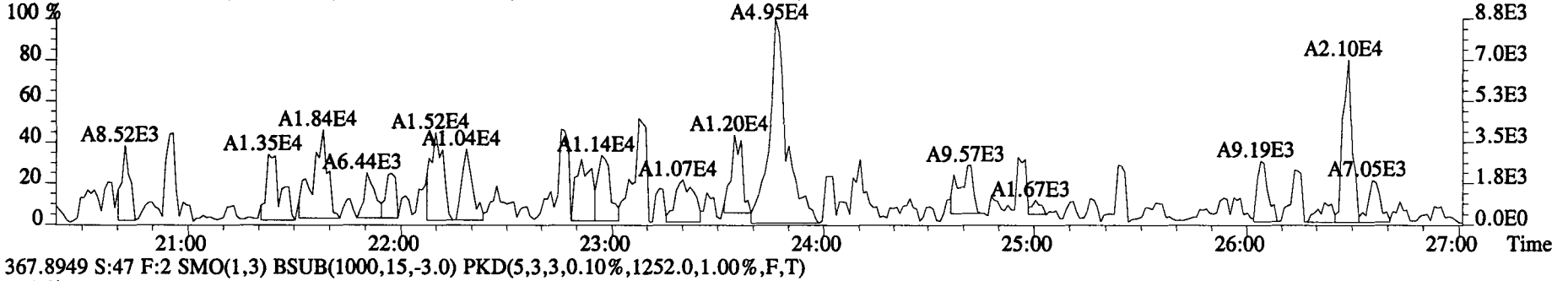
409.7974 S:47 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,152.0,1.00%,F,T)



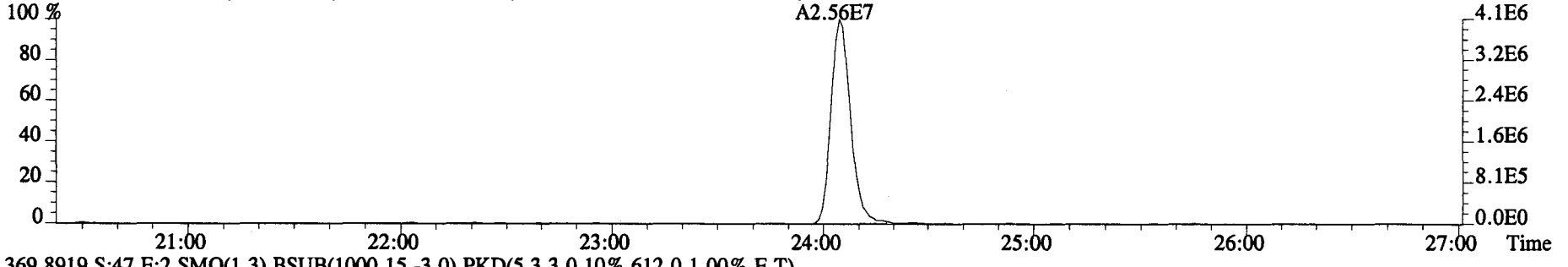
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
355.8546 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



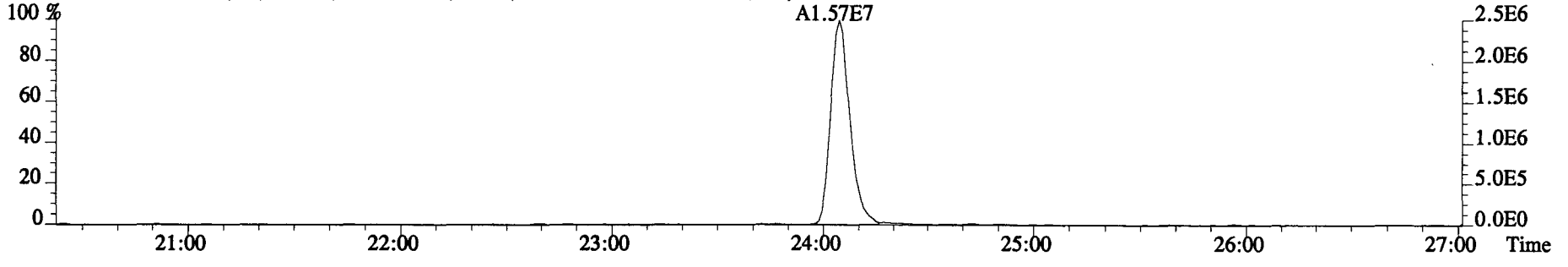
357.8516 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,F,T)



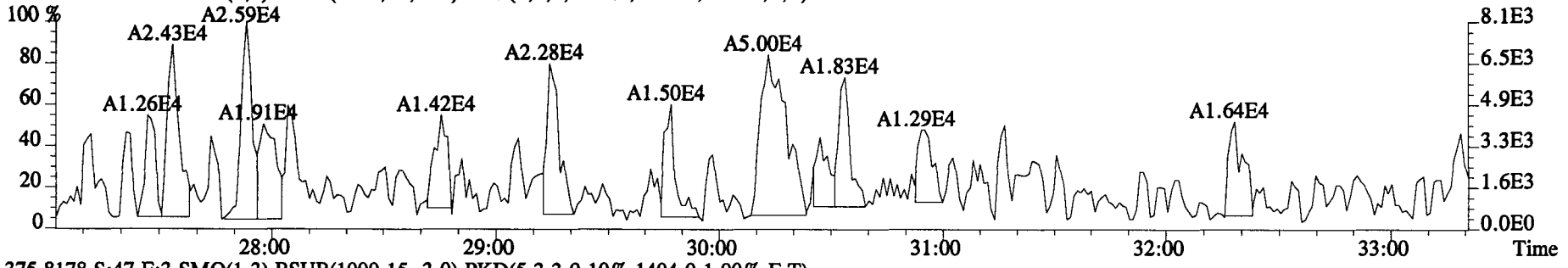
367.8949 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1252.0,1.00%,F,T)



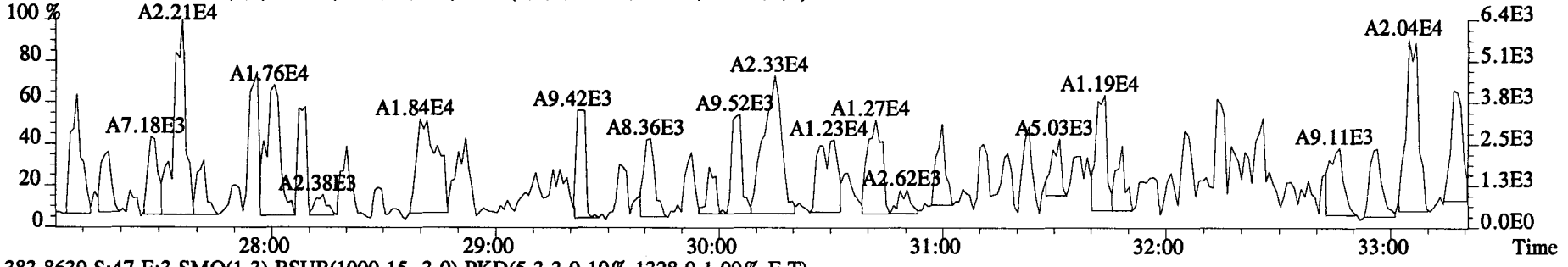
369.8919 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,612.0,1.00%,F,T)



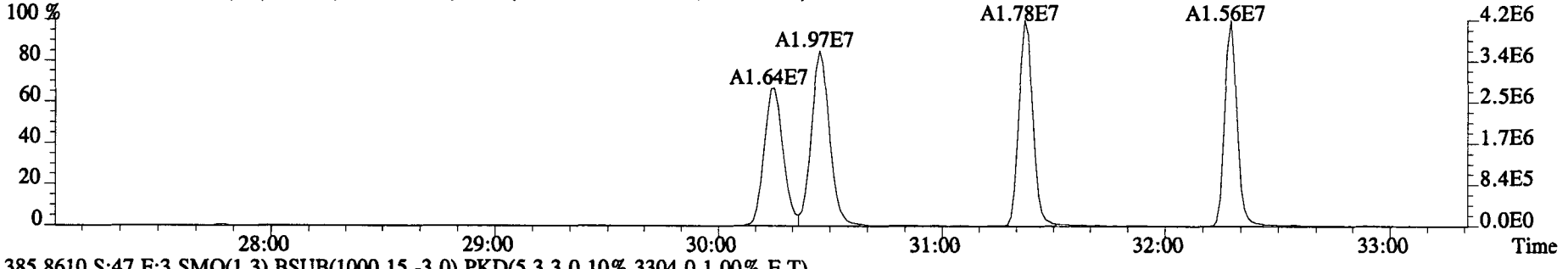
File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
373.8208 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



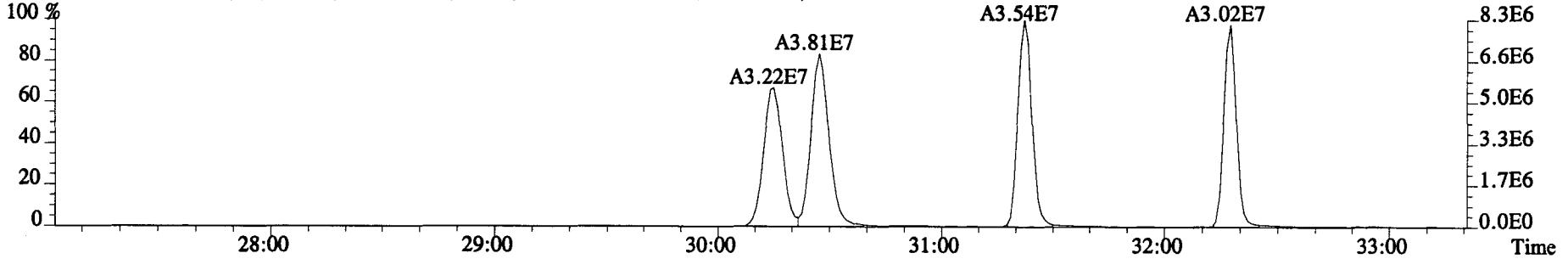
375.8178 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1404.0,1.00%,F,T)



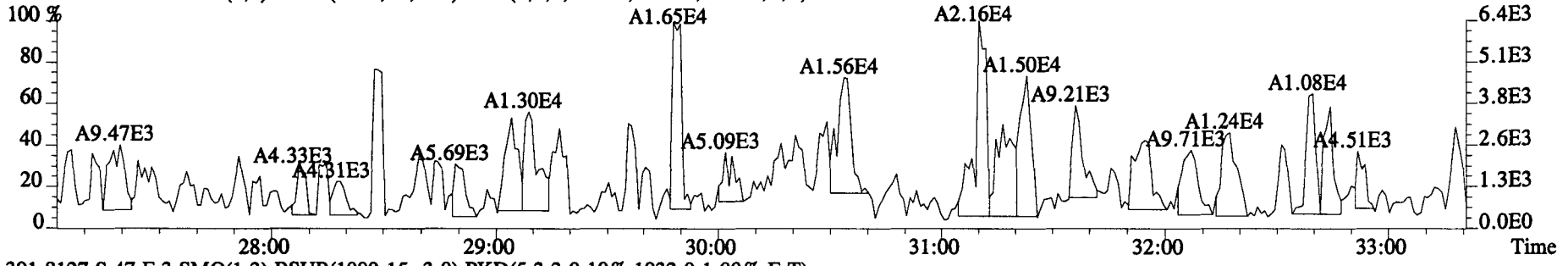
383.8639 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1328.0,1.00%,F,T)



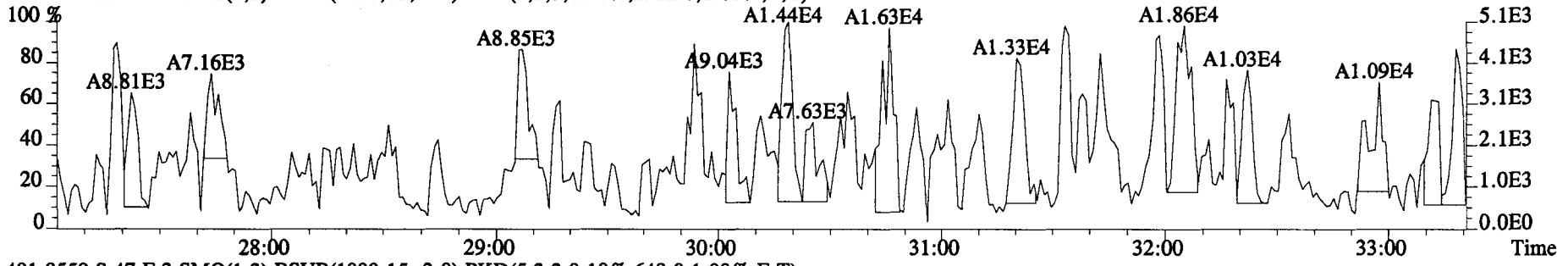
385.8610 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3304.0,1.00%,F,T)



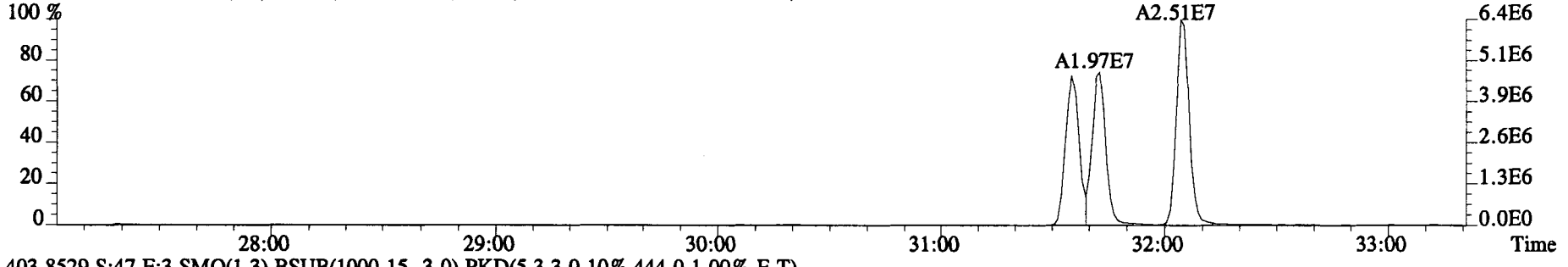
File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
389.8157 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1108.0,1.00%,F,T)



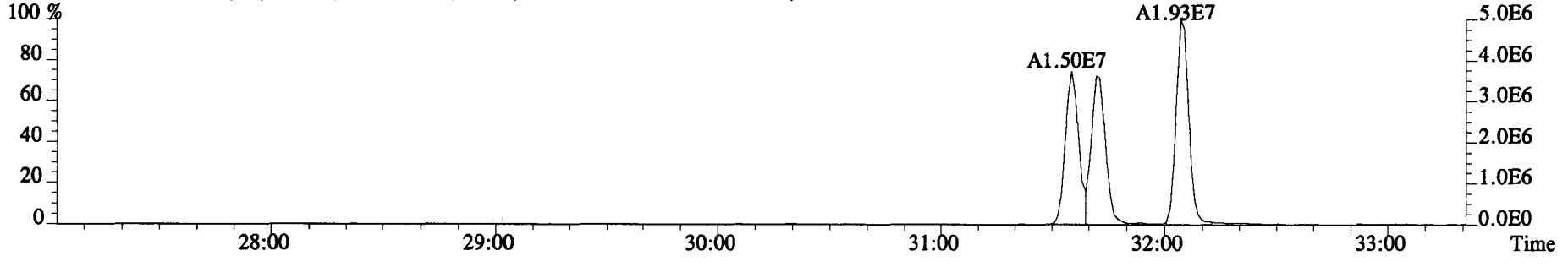
391.8127 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1932.0,1.00%,F,T)



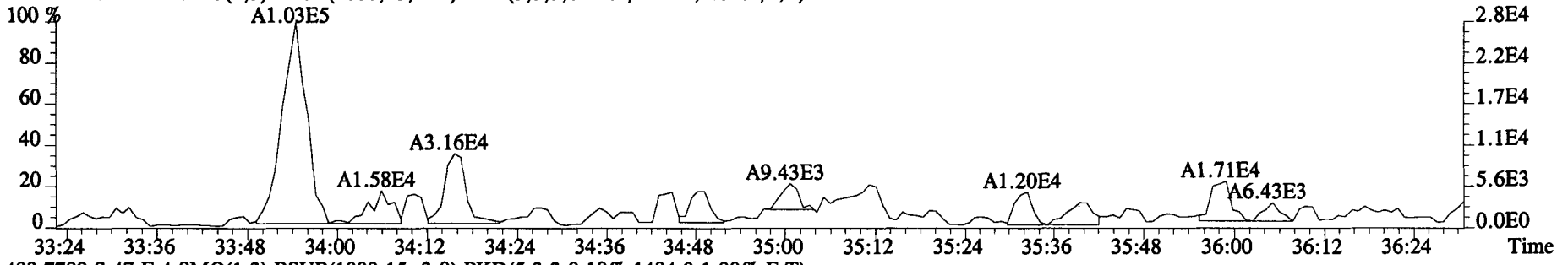
401.8559 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)



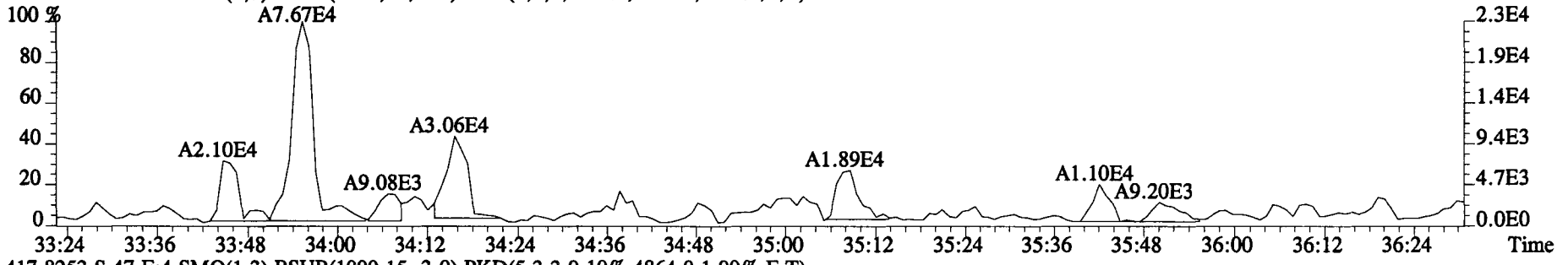
403.8529 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444.0,1.00%,F,T)



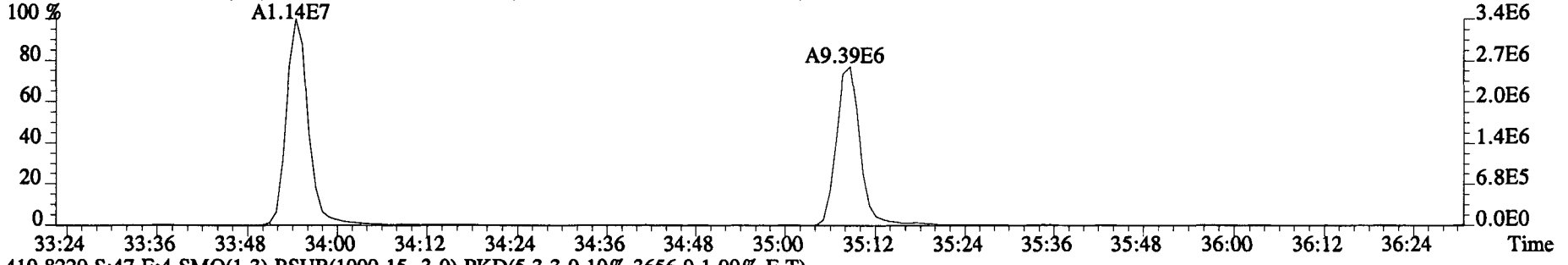
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
407.7818 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)



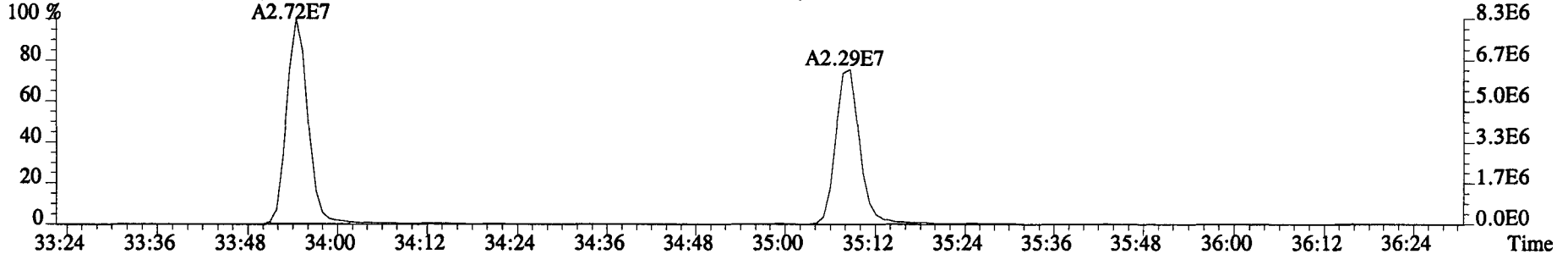
409.7789 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



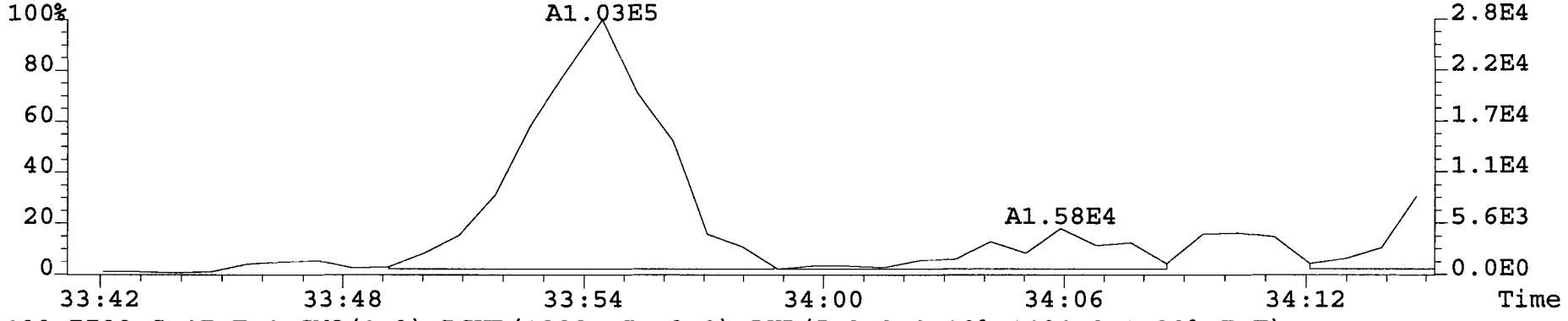
417.8253 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4864.0,1.00%,F,T)



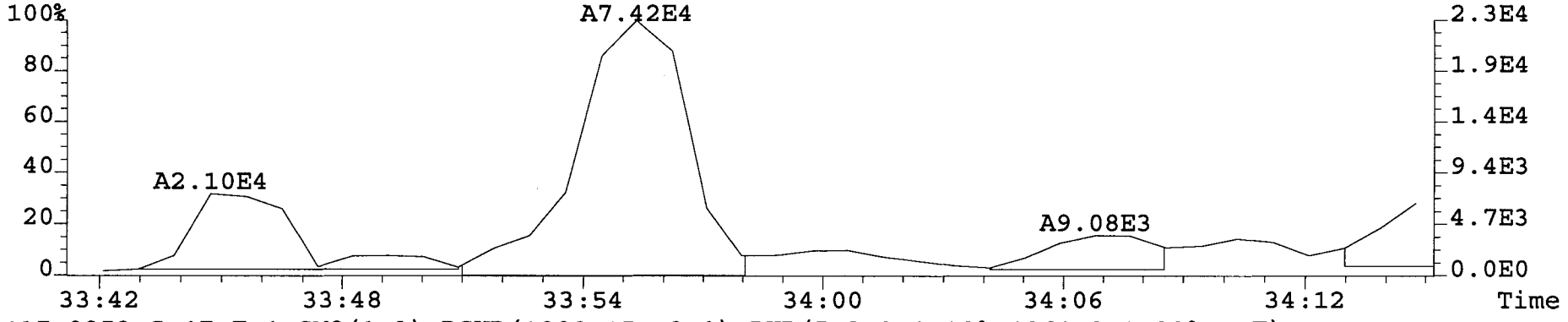
419.8220 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3656.0,1.00%,F,T)



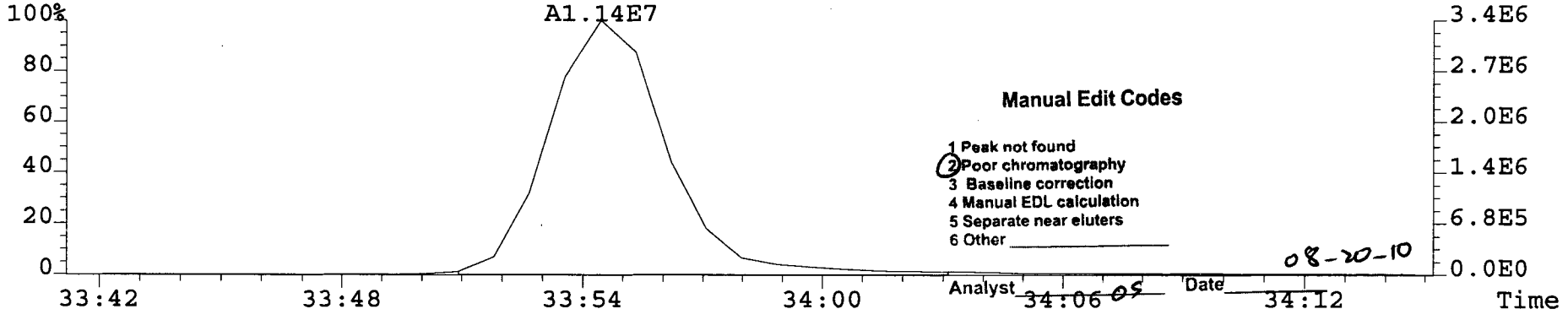
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
407.7818 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)



409.7789 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



417.8253 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4864.0,1.00%,F,T)

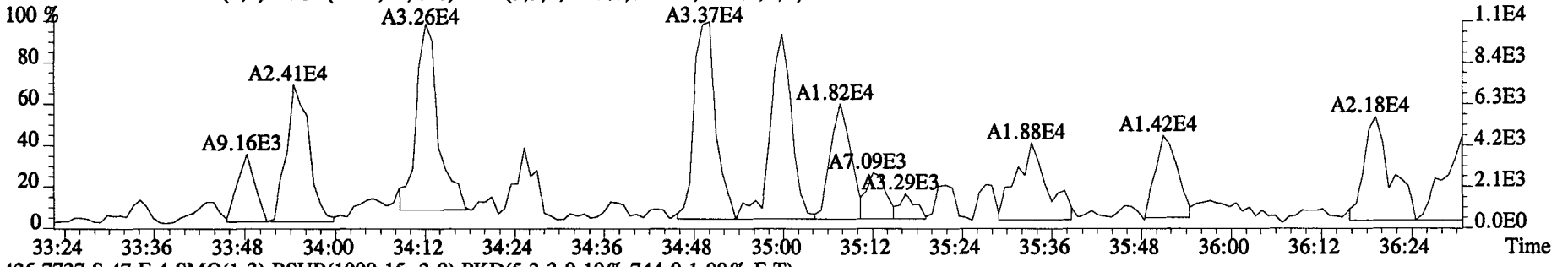


Manual Edit Codes

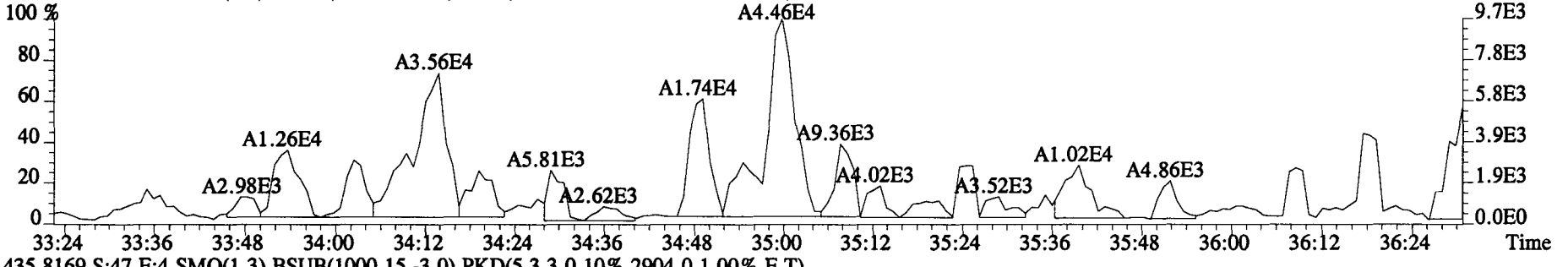
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst 34:06 05 Date 08-20-10

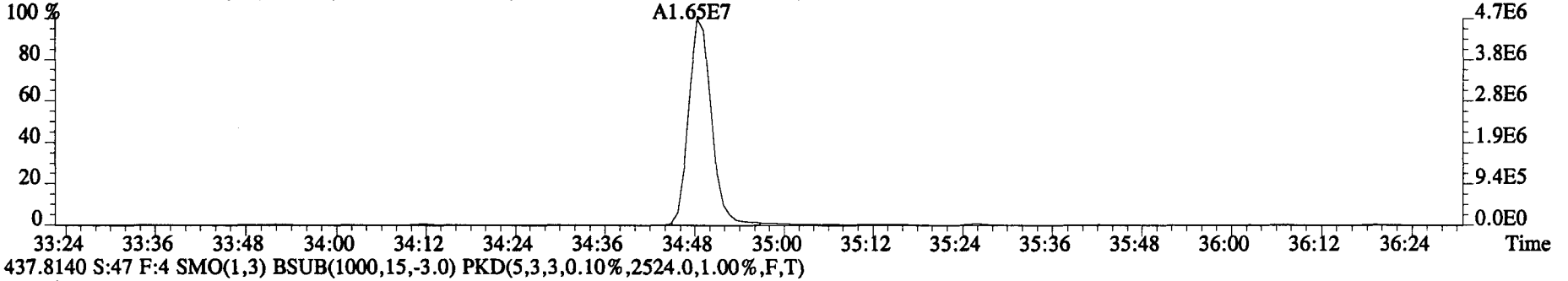
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
423.7766 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1216.0,1.00%,F,T)



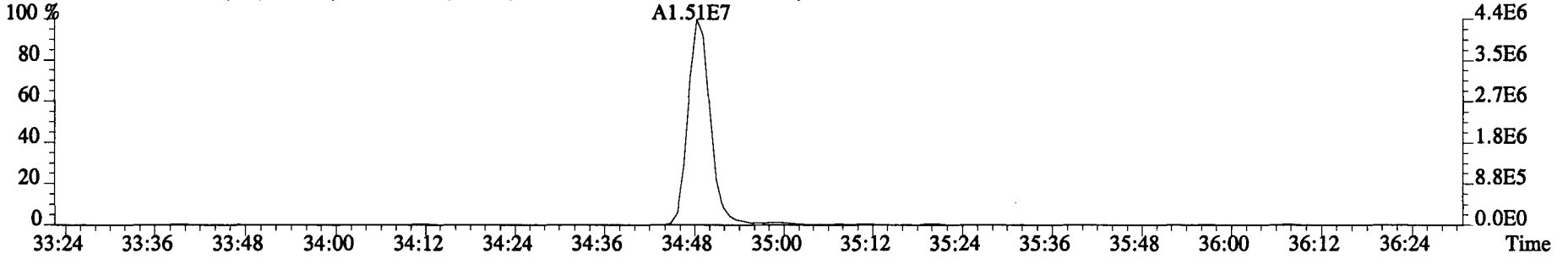
425.7737 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,744.0,1.00%,F,T)



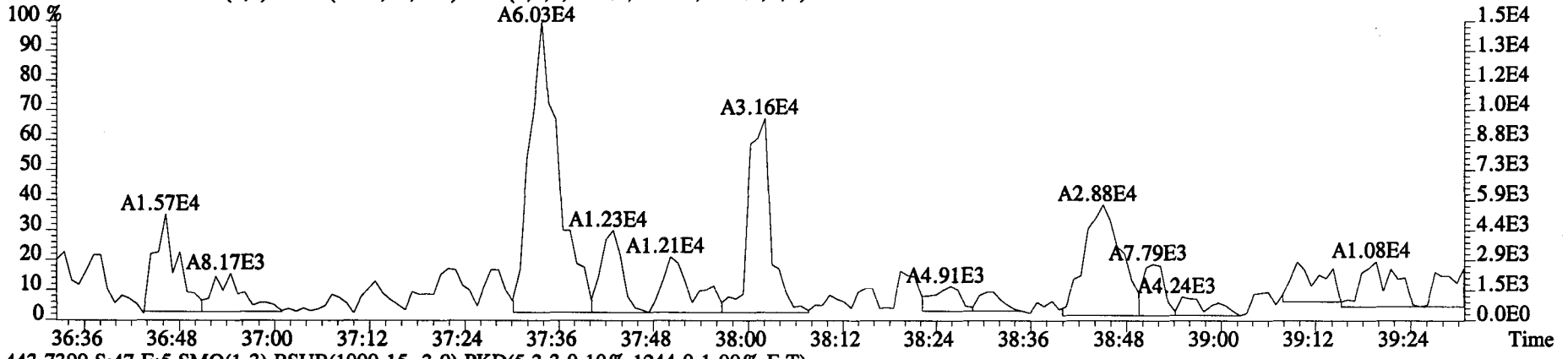
435.8169 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904.0,1.00%,F,T)



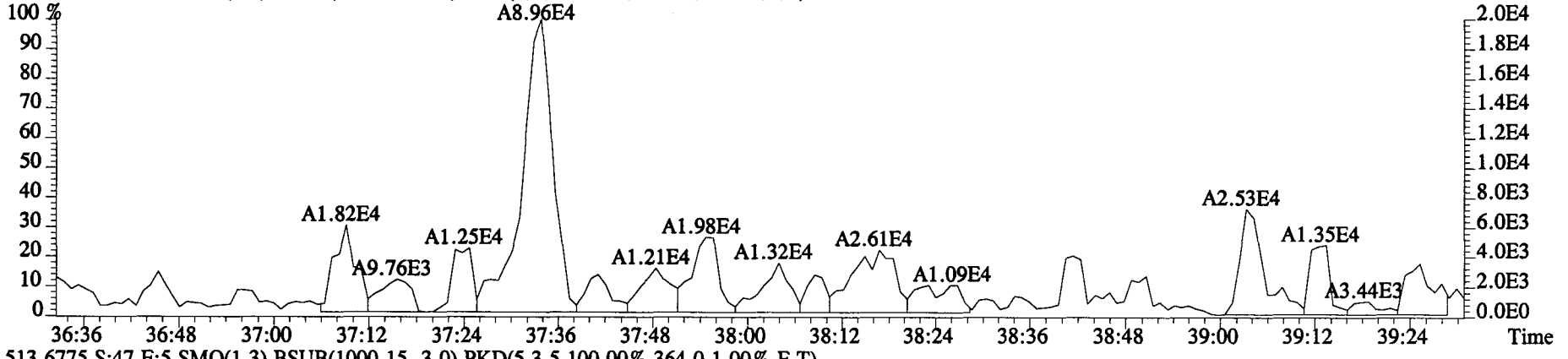
437.8140 S:47 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2524.0,1.00%,F,T)



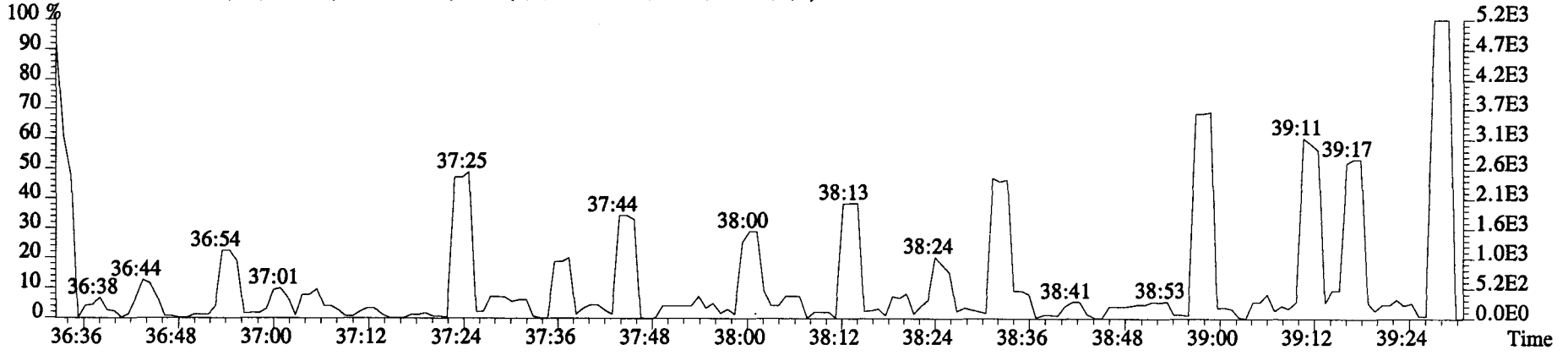
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
441.7428 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)



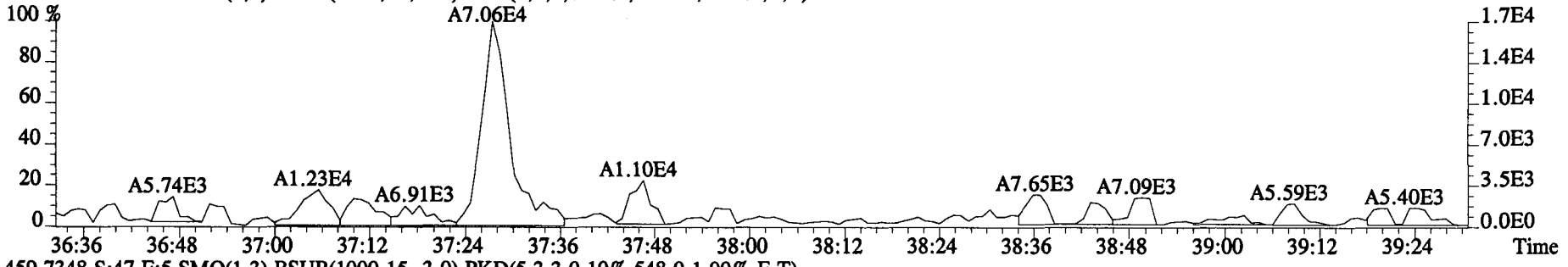
443.7399 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1244.0,1.00%,F,T)



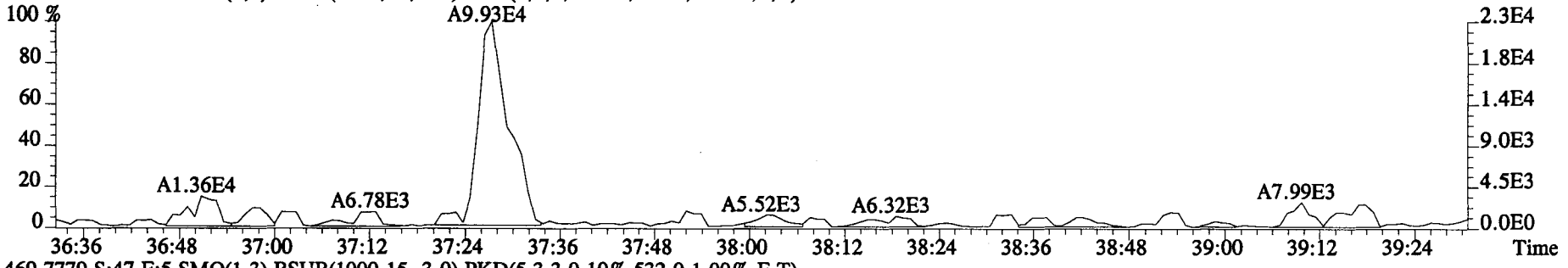
513.6775 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,364.0,1.00%,F,T)



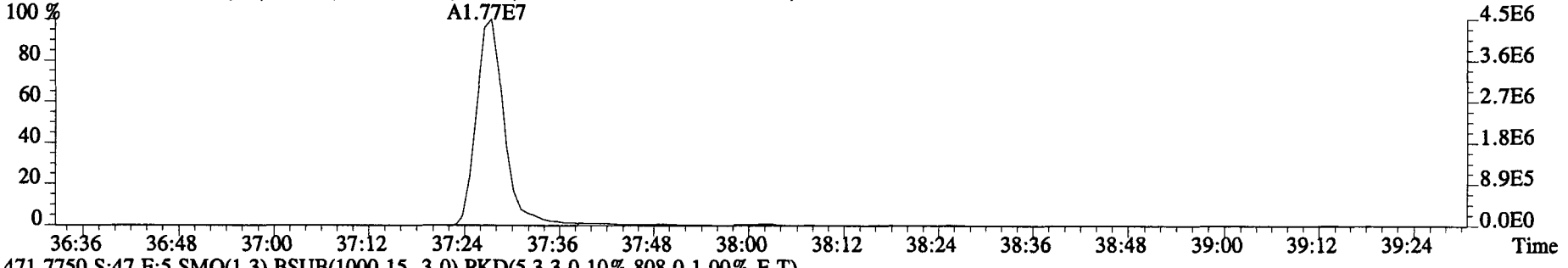
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
457.7377 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1004.0,1.00%,F,T)



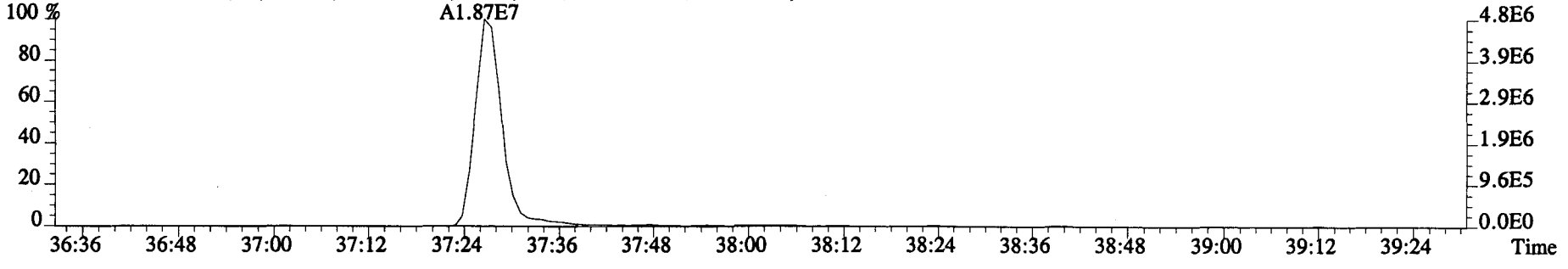
459.7348 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,548.0,1.00%,F,T)



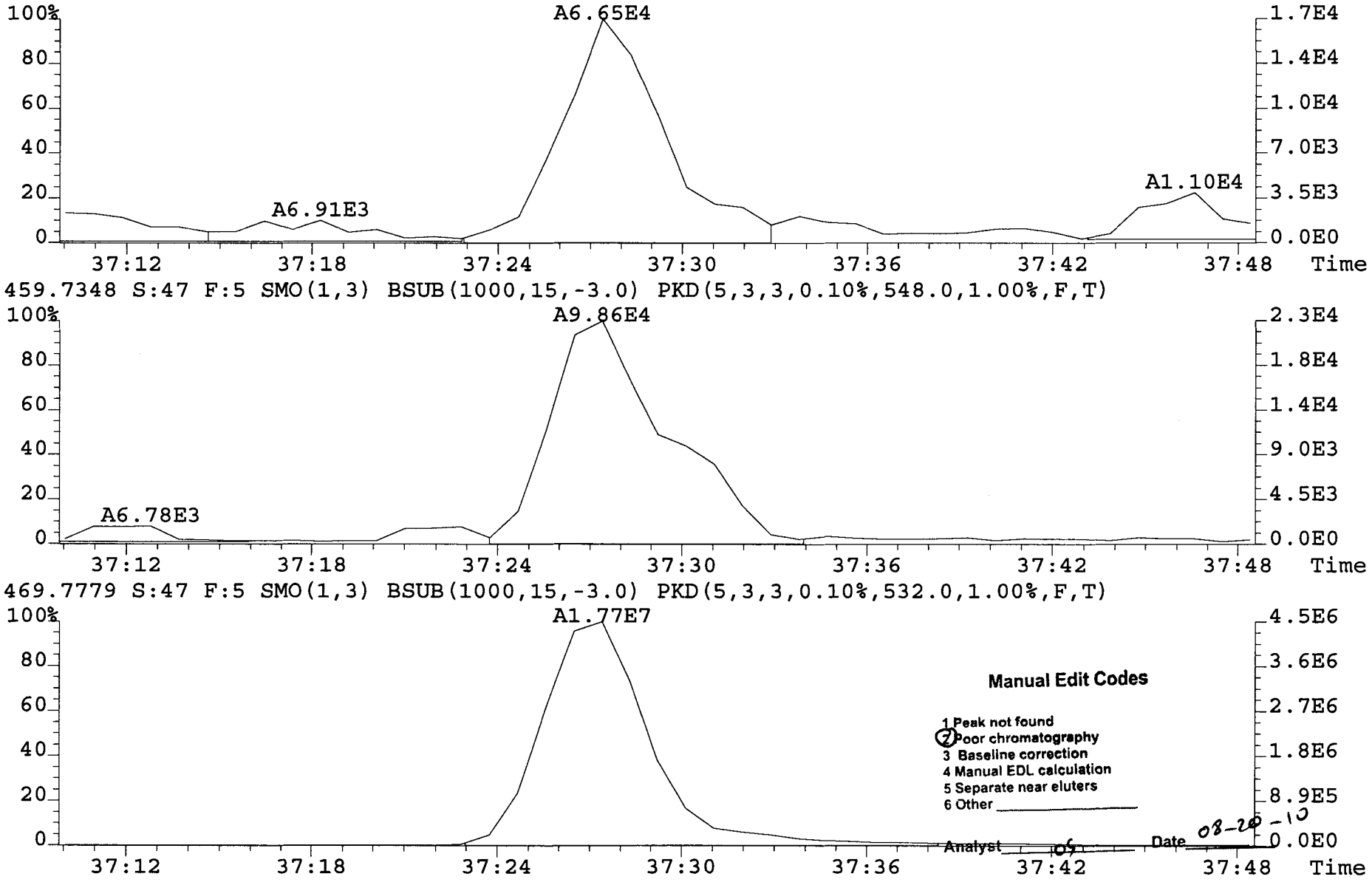
469.7779 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



471.7750 S:47 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES

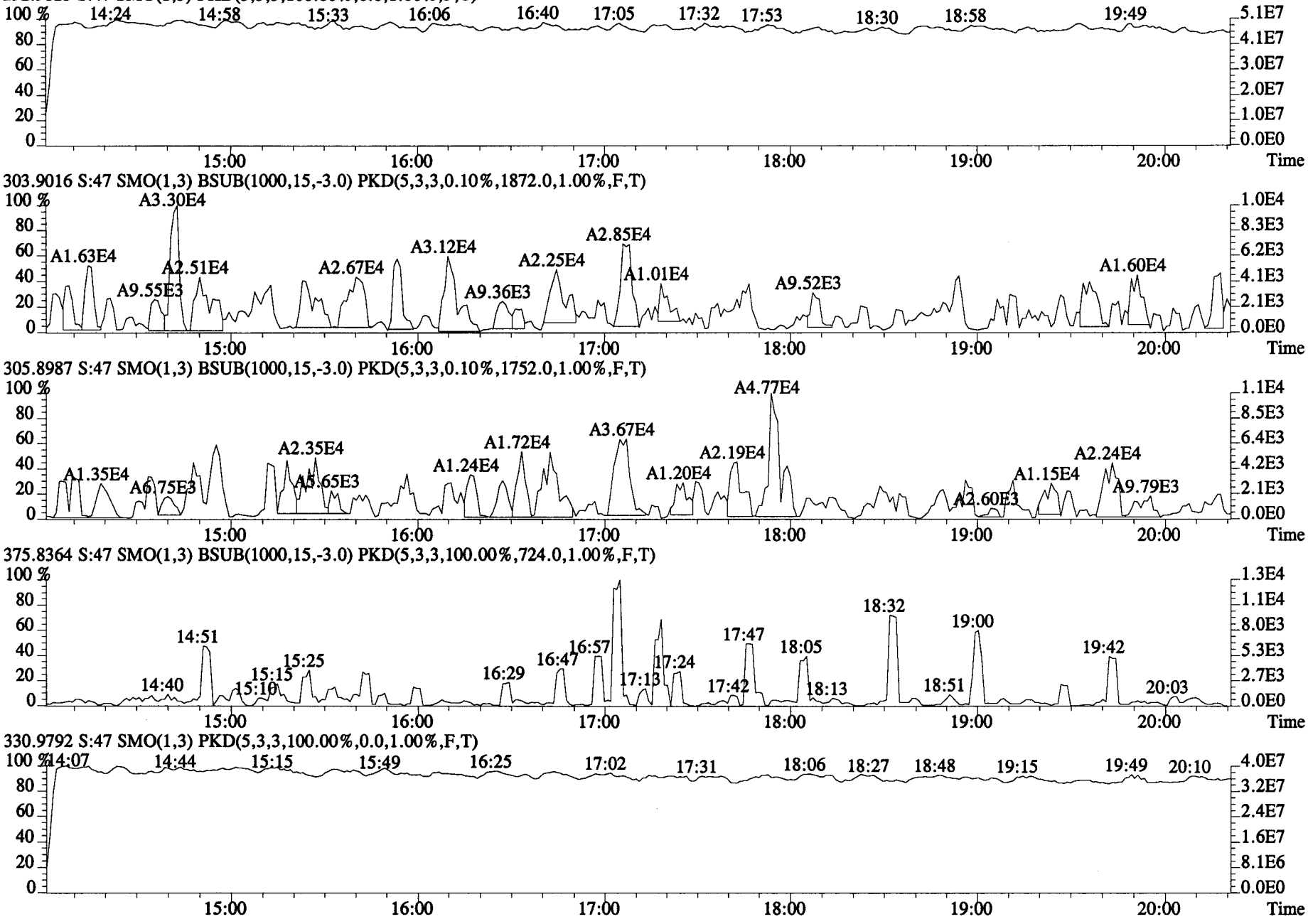


Manual Edit Codes

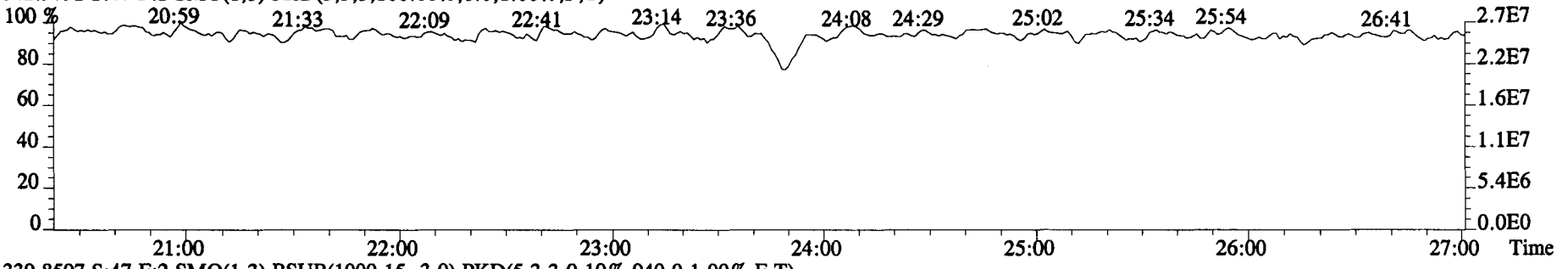
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst _____ Date 08-20-10

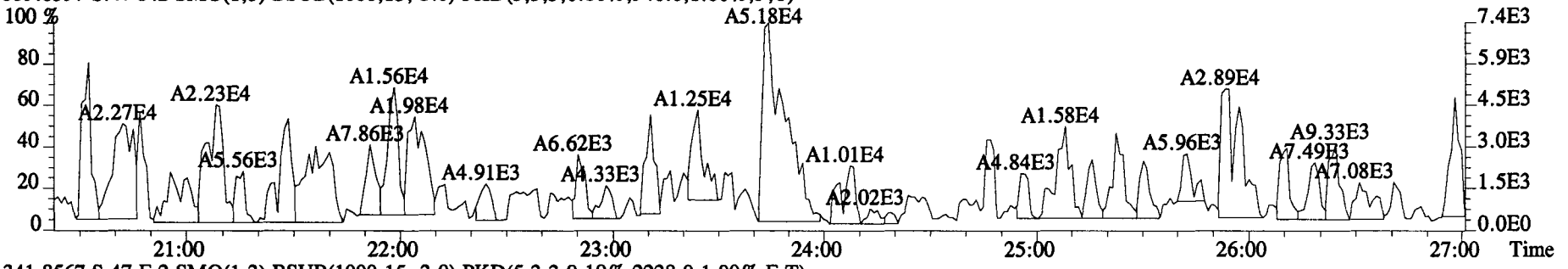
File:16AU10B1D5 #1-373 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES



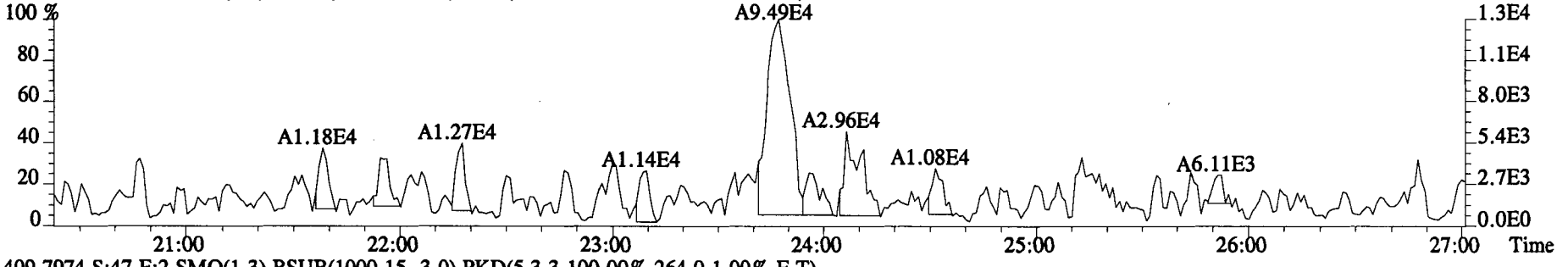
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
342.9792 S:47 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



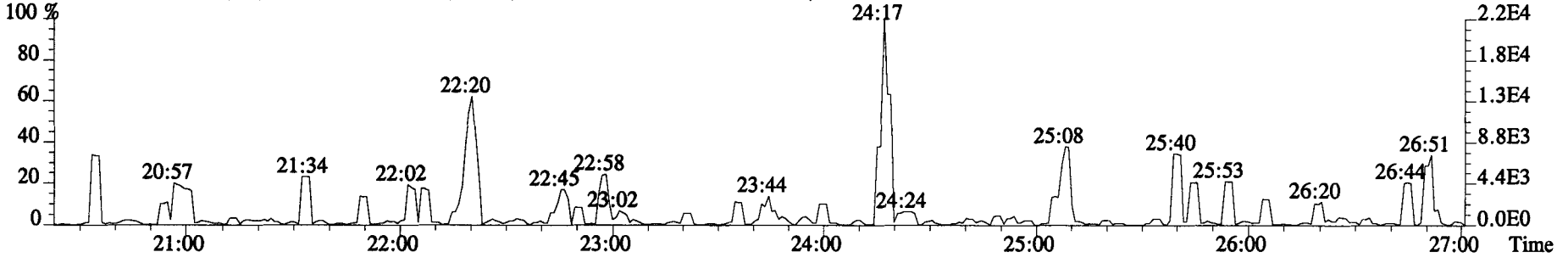
339.8597 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,940.0,1.00%,F,T)



341.8567 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2228.0,1.00%,F,T)

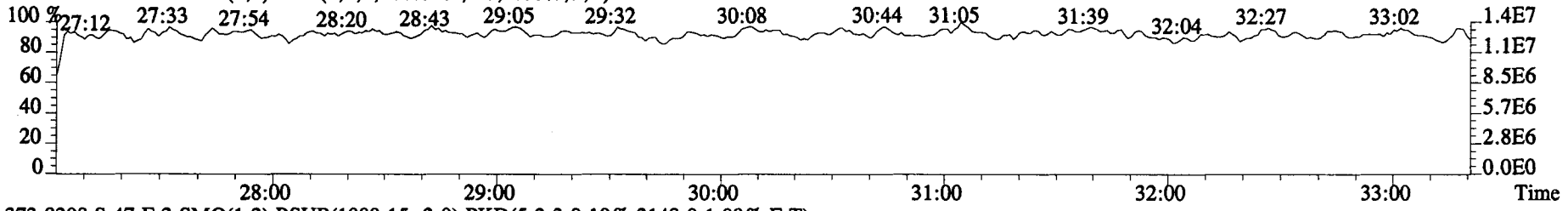


409.7974 S:47 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,264.0,1.00%,F,T)

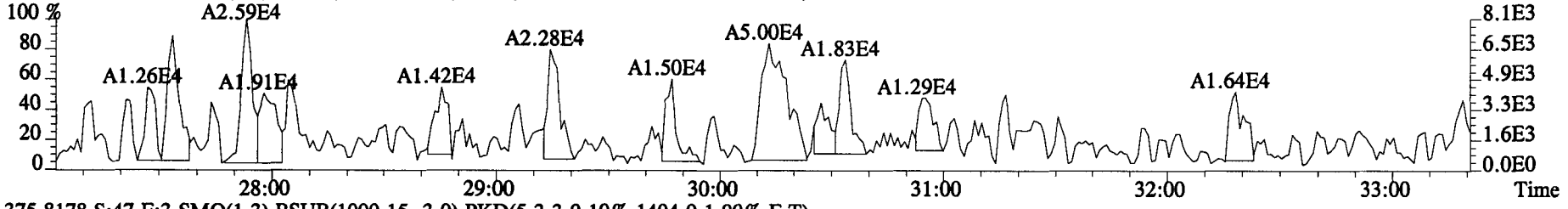


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES

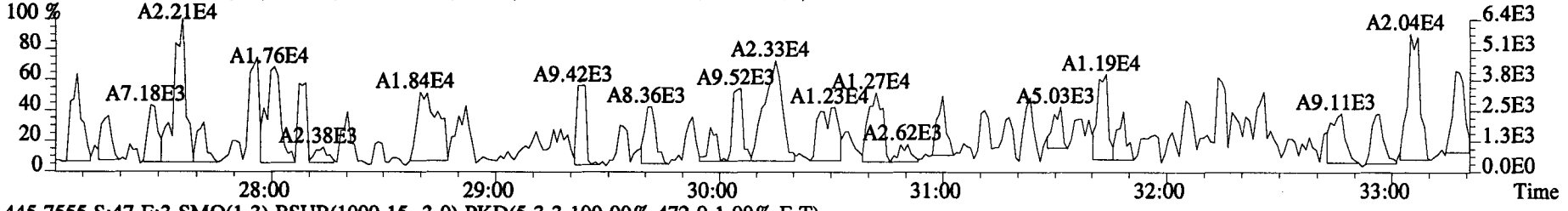
392.9760 S:47 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



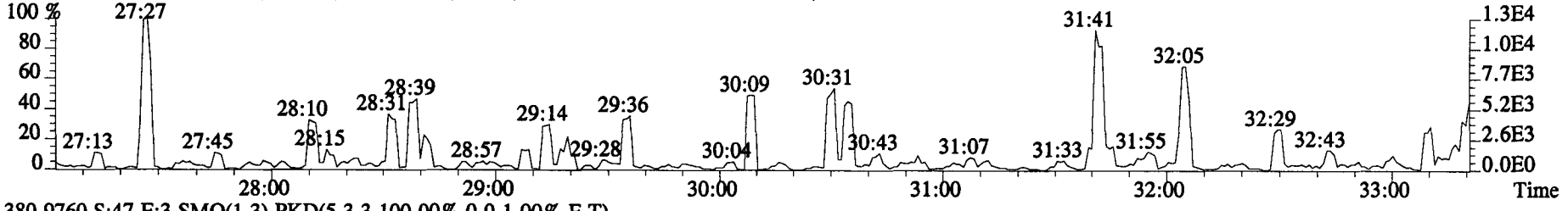
373.8208 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



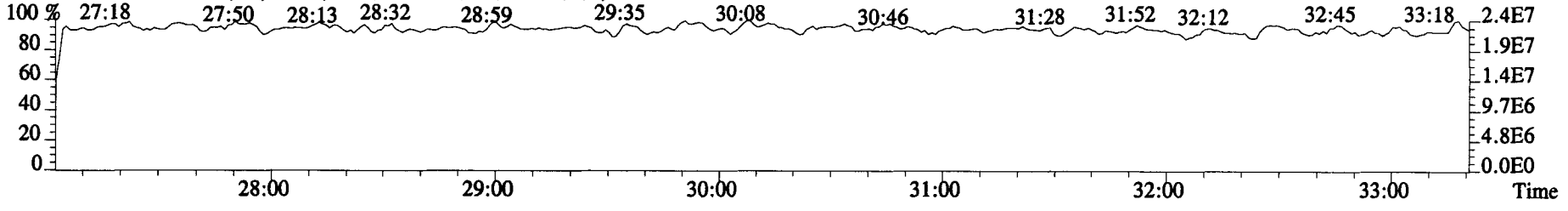
375.8178 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1404.0,1.00%,F,T)



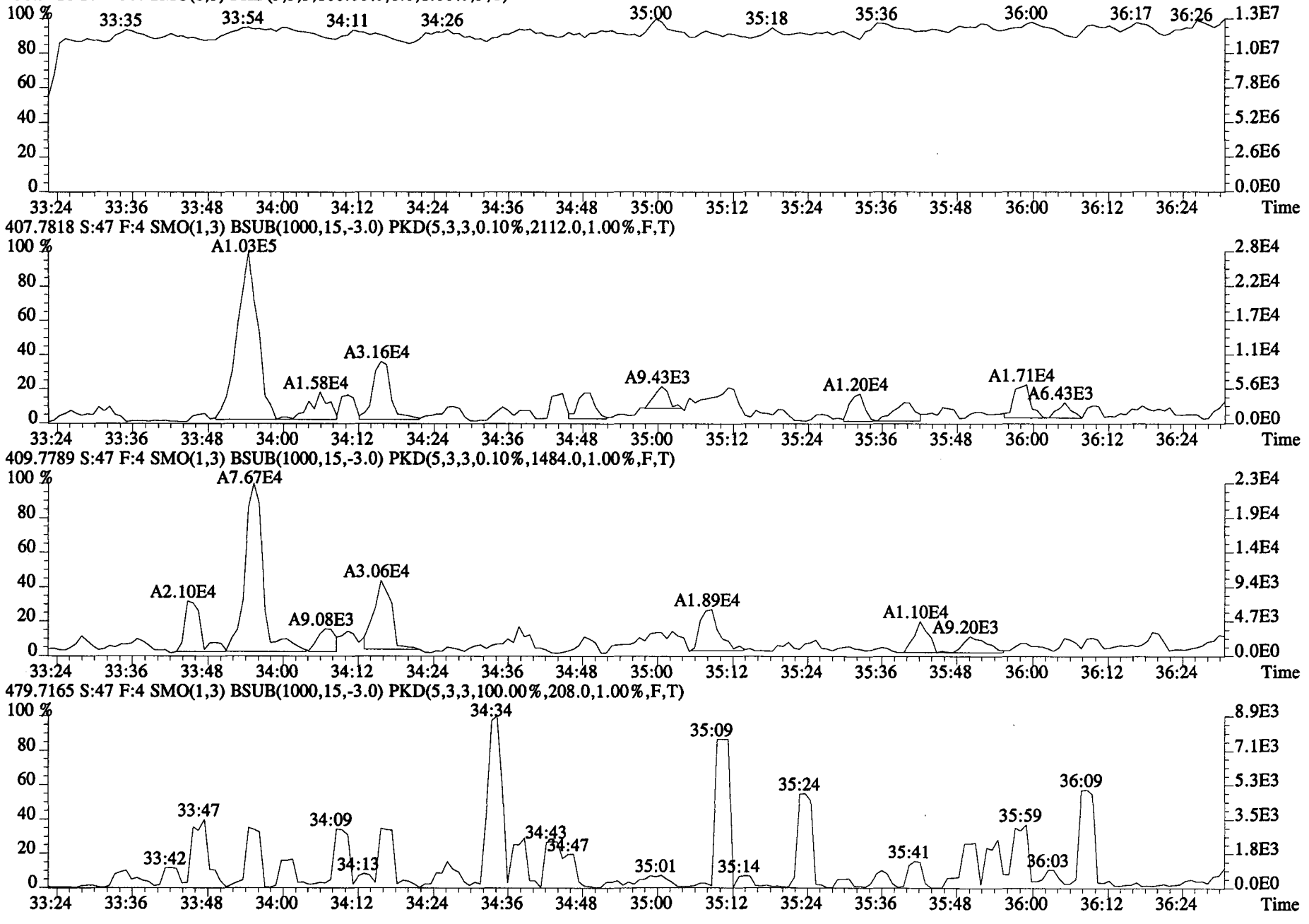
445.7555 S:47 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,472.0,1.00%,F,T)



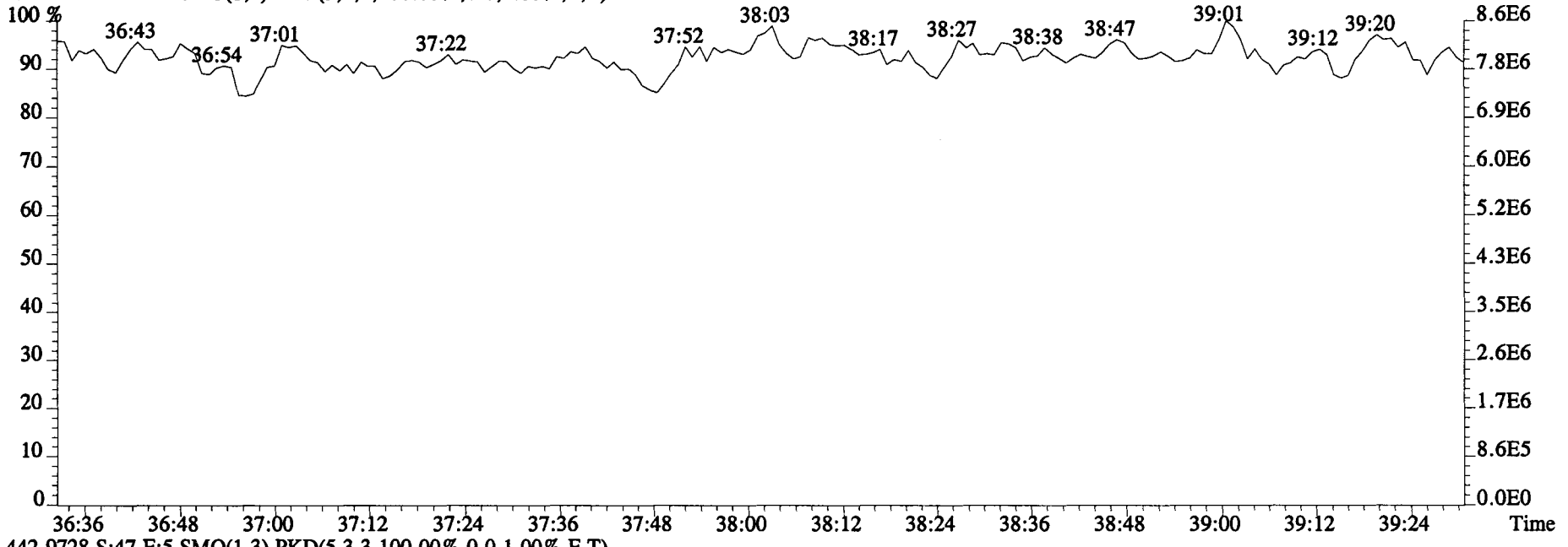
380.9760 S:47 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



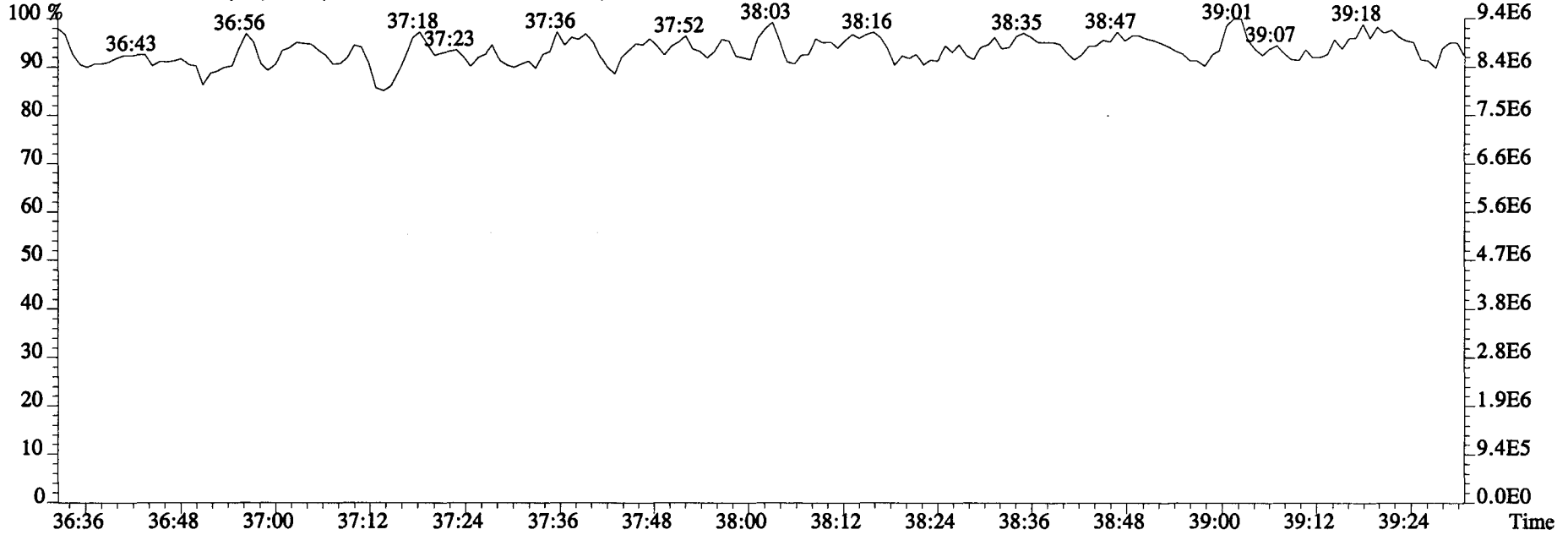
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 01:54:13 GC EI+ Voltage SIR 70SE
Sample#47 Text:L5LAV-1-AA :G0H140454-3 Exp:DIOXINRES
454.9728 S:47 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:47 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4
Run #14 Filename: 16AU10B1D5 S: 48 I: 1 Results: 16AU10B1D5TO9os
Acquired: 18-AUG-10 02:38:11 Processed: 18-AUG-10 10:46:53
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	80499000	0.78	y	17:37	-	42.769	-	-	n
13C-2,3,7,8-TCDF	99710000	0.79	y	17:06	1.56	3172.589	0.417	79.3	n
2,3,7,8-TCDF	267268	0.94	n	17:08	0.87	12.254 J,Q	1.952	-	n
Total TCDF	1976955	1.28	n	14:41	0.87	~~90.638~~ ~~88.628~~	1.952	-	n
13C-2,3,7,8-TCDD	61103400	0.77	y	17:48	0.94	3246.160	4.375	81.2	n
2,3,7,8-TCDD	40202	0.44	n	17:47	0.96	2.749	~~1.753~~	-	n
Total TCDD	433697	2.18	n	14:34	0.96	~~29.658~~ ~~8.94~~	~~1.753~~ 5.99	-	n
37Cl-2,3,7,8-TCDD	56011400	1.00	y	17:49	1.22	3014.808	1.775	94.2	n
13C-1,2,3,7,8-PeCDF	63325000	1.70	y	22:06	1.06	2963.071	3.905	74.1	n
1,2,3,7,8-PeCDF	138460	2.63	n	22:07	1.08	8.099 J,Q	3.870	-	n
2,3,4,7,8-PeCDF	37248	0.78	n	23:24	0.98	~~2.400~~	4.264	-	n
Total F2 PeCDF	861120	2.14	n	20:35	1.03	~~52.526~~ 36.16	4.058	-	n
Total F1 PeCDF	136925	0.31	n	15:13	1.03	~~8.396~~ 4.49	~~3.362~~	-	n
13C-1,2,3,7,8-PeCDD	31955800	1.60	y	24:08	0.65	2457.244	1.230	61.4	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	8.411	-	n
Total PeCDD	166123	0.40	n	21:03	0.92	~~22.485~~ 17.98 DL	8.411	-	n
13C-1,2,3,7,8,9-HxCDD	42089900	1.27	y	32:05	-	29.612	-	-	n
13C-1,2,3,4,7,8-HxCDF	40615300	0.48	y	30:16	0.99	3914.402	9.244	97.9	n
1,2,3,4,7,8-HxCDF	206536	1.46	n	30:17	1.15	17.634 J,Q	6.733	-	n
1,2,3,6,7,8-HxCDF	83162	2.46	n	30:31	1.24	6.590 J,Q	6.249	-	n
2,3,4,6,7,8-HxCDF	33781	2.08	n	31:26	1.22	~~2.732~~	6.378	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	6.554	-	n
Total HxCDF	656833	0.77	n	27:38	1.20	~~54.320~~ ~~44.91~~	6.473	-	n
13C-1,2,3,6,7,8-HxCDD	29659400	1.35	y	31:44	0.77	3670.593	2.139	91.8	n
1,2,3,4,7,8-HxCDD	8624	0.33	n	31:38	1.03	~~1.130~~	3.962	-	n
1,2,3,6,7,8-HxCDD	18502	0.44	n	31:46	1.11	~~2.255~~	3.684	-	n
1,2,3,7,8,9-HxCDD	26327	1.56	n	32:06	1.24	~~2.858~~	3.281	-	n
Total HxCDD	153380	0.67	n	29:31	1.13	~~18.212~~	~~3.621~~ 3.962	-	n
13C-1,2,3,4,6,7,8-HpCDF	31263590	0.39	y	33:55	0.98	3028.920	6.892	75.7	n
1,2,3,4,6,7,8-HpCDF	605256	1.20	y	33:55	1.35	57.377 J	5.010	-	n
1,2,3,4,7,8,9-HpCDF	152090	0.92	y	35:10	1.19	16.405 J	5.700	-	n
Total HpCDF	927670	1.20	y	33:55	1.27	90.968	5.333	-	n
13C-1,2,3,4,6,7,8-HpCDD	27647200	1.06	y	34:49	0.81	3261.052	1.873	81.5	n
1,2,3,4,6,7,8-HpCDD	41158	1.40	n	34:50	1.03	5.802 J,Q	3.831	-	n
Total HpCDD	179296	1.91	n	34:13	1.03	~~25.275~~ 12.51	3.831	-	n
13C-OCDD	29464400	0.89	y	37:28	0.62	4552.096	1.961	56.9	n
OCDF	718607	0.81	y	37:35	1.44	135.030 J	9.191	-	n

OCDD	58970	1.26	n	37:28	1.09	14.684	J,Q	2.696	- y

Run text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4
Run #14 Filename: 16AU10B1D5 S: 48 I: 1 Results: 16AU10B1D5TO9
Acquired: 18-AUG-10 02:38:11 Processed: 18-AUG-10 10:46:53
Run: 16AU10B1D5 Analyte: TO92XCRS Cal: TO90727101D5
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	80499000	0.78	y	17:37	-	42.77	-	-	n
13C-2,3,7,8-TCDF	99710000	0.79	y	17:06	1.56	3172.59	0.42	79.3	n
2,3,7,8-TCDF	267268	0.94	n	17:08	0.87	12.25	1.95	-	n
Total TCDF	1976955	1.28	n	14:41	0.87	90.64	1.95	-	n
13C-2,3,7,8-TCDD	61103400	0.77	y	17:48	0.94	3246.16	4.38	81.2	n
2,3,7,8-TCDD	40202	0.44	n	17:47	0.96	2.75	1.75	-	n
Total TCDD	433697	2.18	n	14:34	0.96	29.66	1.75	-	n
37Cl-2,3,7,8-TCDD	56011400	1.00	y	17:49	1.22	3014.81	1.78	94.2	n
13C-1,2,3,7,8-PeCDF	63325000	1.70	y	22:06	1.06	2963.07	3.90	74.1	n
1,2,3,7,8-PeCDF	138460	2.63	n	22:07	1.08	8.10	3.87	-	n
2,3,4,7,8-PeCDF	37248	0.78	n	23:24	0.98	2.40	4.26	-	n
Total F2 PeCDF	861120	2.14	n	20:35	1.03	52.53	4.06	-	n
Total F1 PeCDF	136925	0.31	n	15:13	1.03	8.40	3.36	-	n
13C-1,2,3,7,8-PeCDD	31955800	1.60	y	24:08	0.65	2457.24	1.23	61.4	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.92	*	8.41	-	n
Total PeCDD	166123	0.40	n	21:03	0.92	22.49	8.41	-	n
13C-1,2,3,7,8,9-HxCDD	42089900	1.27	y	32:05	-	29.61	-	-	n
13C-1,2,3,4,7,8-HxCDF	40615300	0.48	y	30:16	0.99	3914.40	9.24	97.9	n
1,2,3,4,7,8-HxCDF	206536	1.46	n	30:17	1.15	17.63	6.73	-	n
1,2,3,6,7,8-HxCDF	83162	2.46	n	30:31	1.24	6.59	6.25	-	n
2,3,4,6,7,8-HxCDF	33781	2.08	n	31:26	1.22	2.73	6.38	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.19	*	6.55	-	n
Total HxCDF	656833	0.77	n	27:38	1.20	54.32	6.47	-	n
13C-1,2,3,6,7,8-HxCDD	29659400	1.35	y	31:44	0.77	3670.59	2.14	91.8	n
1,2,3,4,7,8-HxCDD	8624	0.33	n	31:38	1.03	1.13	3.96	-	n
1,2,3,6,7,8-HxCDD	18502	0.44	n	31:46	1.11	2.25	3.68	-	n
1,2,3,7,8,9-HxCDD	26327	1.56	n	32:06	1.24	2.86	3.28	-	n
Total HxCDD	153380	0.67	n	29:31	1.13	18.21	3.62	-	n
13C-1,2,3,4,6,7,8-HpCDF	31263590	0.39	y	33:55	0.98	3028.92	6.89	75.7	n
1,2,3,4,6,7,8-HpCDF	605256	1.20	y	33:55	1.35	57.38	5.01	-	n
1,2,3,4,7,8,9-HpCDF	152090	0.92	y	35:10	1.19	16.40	5.70	-	n
Total HpCDF	927670	1.20	y	33:55	1.27	90.97	5.33	-	n
13C-1,2,3,4,6,7,8-HpCDD	27647200	1.06	y	34:49	0.81	3261.05	1.87	81.5	n
1,2,3,4,6,7,8-HpCDD	41158	1.40	n	34:50	1.03	5.80	3.83	-	n
Total HpCDD	179296	1.91	n	34:13	1.03	25.28	3.83	-	n
13C-OCDD	29464400	0.89	y	37:28	0.62	4552.10	1.96	56.9	n
OCDF	718607	0.81	y	37:35	1.44	135.03	9.19	-	n
OCDD	77698	1.39	n	37:28	1.09	19.35	2.70	-	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:15
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	45.32 of which	6.13 named and	39.19 unnamed
Conc:	90.64 of which	12.25 named and	78.38 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:41	1.28	n	7.54	118870	12.8	y	n
						92925	13.1	y	n
	2	15:02	0.71	y	4.20	37988	6.4	y	n
						53575	7.3	y	n
	3	15:11	0.73	y	3.19	29356	3.1	y	n
						40252	6.3	y	n
	4	15:27	0.70	y	20.06	180723	20.3	y	n
						256825	36.2	y	n
	5	15:42	0.69	y	8.44	75486	6.3	y	n
						108696	10.2	y	n
	6	15:59	0.26	n	4.10	38892	3.5	y	n
						151980	14.1	y	n
	7	16:13	0.69	y	7.65	68433	8.3	y	n
						98510	13.7	y	n
	8	16:30	0.45	n	5.13	48631	4.5	y	n
						107428	10.6	y	n
	9	16:34	0.32	n	2.79	26473	3.8	y	n
						82266	14.6	y	n
	10	16:44	1.05	n	10.28	132857	15.8	y	n
						126679	14.4	y	n
	11	16:56	0.36	n	2.39	22637	3.9	y	n
						62956	6.3	y	n
2,3,7,8-TCDF	12	17:08	0.94	n	12.25	142445	15.2	y	n
						150999	17.7	y	n
	13	18:12	0.64	n	1.18	11223	2.0	n	n
						17418	2.5	n	n
	14	19:22	1.76	n	0.94	20336	3.6	y	n
						11572	1.8	n	n
	15	19:56	4.68	n	0.49	28544	2.3	n	n
						6093	1.0	n	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:19
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	14.83 of which	1.37 named and	13.45 unnamed
Conc:	29.66 of which	2.75 named and	26.91 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:34	2.18	n	1.52	27396	4.0	y	n
						12545	4.8	y	n
	2	14:55	0.49	n	1.62	10297	3.0	n	n
						20895	7.3	y	n
	3	15:04	0.37	n	1.13	7198	1.6	n	n
						19518	7.1	y	n
	4	15:13	1.21	n	1.38	13756	3.2	y	n
						11369	3.9	y	n
	5	15:36	1.61	n	2.95	39066	9.3	y	n
						24332	8.9	y	n
	6	15:54	0.58	n	5.99	38076	8.6	y	n
						65368	19.3	y	n
	7	16:30	0.42	n	0.90	5698	1.5	n	n
						13407	3.5	y	n
	8	16:41	0.46	n	0.38	2414	0.6	n	n
						5274	2.3	n	n
	9	16:48	1.19	n	1.03	10130	2.8	n	n
						8496	3.1	y	n
	10	17:37	1.68	n	1.55	21421	4.1	y	n
						12781	2.5	n	n
2,3,7,8-TCDD	11	17:47	0.44	n	2.75	17489	3.9	y	n
						39374	13.3	y	n
	12	17:58	2.21	n	0.71	12891	3.0	n	n
						5840	2.4	n	n
	13	18:25	4.19	n	0.69	23714	3.7	y	n
						5664	2.1	n	n
	14	18:49	0.78	y	1.17	7539	1.7	n	n
						9630	2.5	n	n
	15	19:06	0.67	y	1.60	9425	2.6	n	n
						14025	5.7	y	n
	16	19:17	1.58	n	0.98	12836	2.5	n	n

						8122	3.1	y	n
	17	19:26	0.46	n	0.82	5234	1.8	n	n
						11382	4.1	y	n
	18	19:43	3.94	n	0.43	14121	3.3	y	n
						3587	1.2	n	n
	19	19:53	1.74	n	2.07	29768	5.6	y	n
						17126	6.7	y	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:11
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	26.26 of which	5.25 named and	21.02 unnamed
Conc:	52.53 of which	10.50 named and	42.03 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:35	2.14	n	3.28	44774	8.9	y	n
						20951	1.6	n	n
	2	20:46	1.21	n	18.02	178656	24.5	y	n
						148157	8.2	y	n
	3	21:38	1.77	y	7.70	80222	8.6	y	n
						45372	2.4	n	n
	4	21:46	2.77	n	1.37	24170	5.4	y	n
						8739	0.7	n	n
1,2,3,7,8-PeCDF	5	22:07	2.63	n	8.10	142951	15.4	y	n
						54298	4.0	y	n
	6	22:45	0.33	n	1.35	13411	3.0	y	n
						40493	1.9	n	n
2,3,4,7,8-PeCDF	7	23:24	0.78	n	2.40	22641	3.5	y	n
						28915	1.5	n	n
	8	23:30	1.16	n	2.02	20030	4.5	y	n
						17313	1.1	n	n
	9	23:47	0.79	n	6.04	59862	7.1	y	n
						75884	4.1	y	n
	10	25:56	1.45	y	1.28	12318	3.2	y	n
						8483	0.9	n	n
	11	26:03	0.96	n	0.97	9659	2.0	n	n
						10050	1.1	n	n

32.14

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:4
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	4.20	of which		* named and	4.20	unnamed			
Conc:	8.40	of which		* named and	8.40	unnamed			

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	15:13	0.31	n	1.34	13238	3.5	y	n
						42837	3.7	y	n
	2	18:44	0.25	n	1.14	11344	3.4	y	n
						45794	5.3	y	n
	3	18:50	0.31	n	1.42	14091	3.9	y	n
						45794	5.3	y	n
	4	19:15	0.92	n	4.49	44556	8.7	y	n
						48353	4.0	y	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

Amount:	11.24	of which		* named and	11.24	unnamed			
Conc:	22.49	of which		* named and	22.49	unnamed			

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:03	0.40	n	0.54	2425	0.4	n	n
						6019	1.6	n	n
	2	22:31	0.84	n	2.45	11004	1.4	n	n
						13149	3.9	y	n
	3	23:48	1.98	n	17.98	103332	7.7	y	n
						52098	8.2	y	n
	4	25:31	3.84	n	1.51	16820	1.4	n	n
						4385	1.5	n	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:8
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11

Tables: Run: 16AU10B1D5 Analyte: TO92XC¶ Cal: TO90727101D5 Results: 16AU10B1¶

Amount:	27.16 of which	13.48 named and	13.68 unnamed
Conc:	54.32 of which	26.96 named and	27.36 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	27:38	0.77	n	7.04	47485	4.1	y	n
						61315	4.1	y	n
	2	27:48	0.89	n	1.17	7890	1.5	n	n
						8816	1.3	n	n
	3	28:02	1.01	n	13.65	92021	6.7	y	n
						91286	5.5	y	n
1,2,3,4,7,8-HxCDF	4	30:17	1.46	n	17.63	134683	9.4	y	n
						92203	5.1	y	n
1,2,3,6,7,8-HxCDF	5	30:31	2.46	n	6.59	91405	6.6	y	n
						37126	2.8	n	n
	6	30:40	1.39	y	4.69	33202	2.2	n	n
						23897	3.0	n	n
2,3,4,6,7,8-HxCDF	7	31:26	2.08	n	2.73	31362	3.1	y	n
						15081	1.7	n	n
	8	32:24	2.26	n	0.82	10073	1.1	n	n
						4461	0.7	n	n

38.32

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:12
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	9.11 of which	3.12 named and	5.98 unnamed
Conc:	18.21 of which	6.24 named and	11.97 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	29:31	0.67	n	1.20	5567	2.2	n	n
						8288	1.5	n	n
	2	29:47	0.08	n	0.15	683	0.3	n	n
						8283	1.9	n	n
	3	29:53	0.93	n	1.67	7709	2.0	n	n
						8283	1.9	n	n
	4	30:48	0.94	n	3.31	15313	4.0	y	n
						16294	2.1	n	n
	5	30:57	1.05	n	0.63	2929	1.2	n	n
						2795	0.5	n	n
1,2,3,4,7,8-HxCDD	6	31:38	0.33	n	1.13	4774	1.5	n	n
						14655	2.8	n	n
1,2,3,6,7,8-HxCDD	7	31:46	0.44	n	2.25	10242	3.6	y	n
						23154	3.8	y	n
1,2,3,7,8,9-HxCDD	8	32:06	1.56	n	2.86	18353	3.7	y	n
						11753	2.0	n	n
	9	32:31	1.27	y	1.32	6168	2.7	n	n
						4869	1.1	n	n
	10	32:35	0.80	n	0.84	3885	1.3	n	n
						4869	1.1	n	n
	11	32:53	2.54	n	1.85	17491	4.5	y	n
						6900	1.4	n	n
	12	33:19	4.00	n	0.99	14713	4.1	y	n
						3682	1.2	n	n

Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC╗ Cal: TO90727101D5 Results: 16AU10B1╗

Amount:	45.48 of which	36.89 named and	8.59 unnamed

Conc: 90.97 of which 73.78 named and 17.19 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:55	1.20	y	57.38	329519	26.7	y	n
						275737	33.8	y	n
	2	34:09	0.67	n	5.53	27928	2.9	n	n
						41763	6.5	y	n
	3	34:17	1.55	n	11.66	87997	7.8	y	n
						56638	7.0	y	n
1,2,3,4,7,8,9-HpCDF	4	35:10	0.92	y	16.40	72996	7.0	y	n
						79093	10.1	y	n

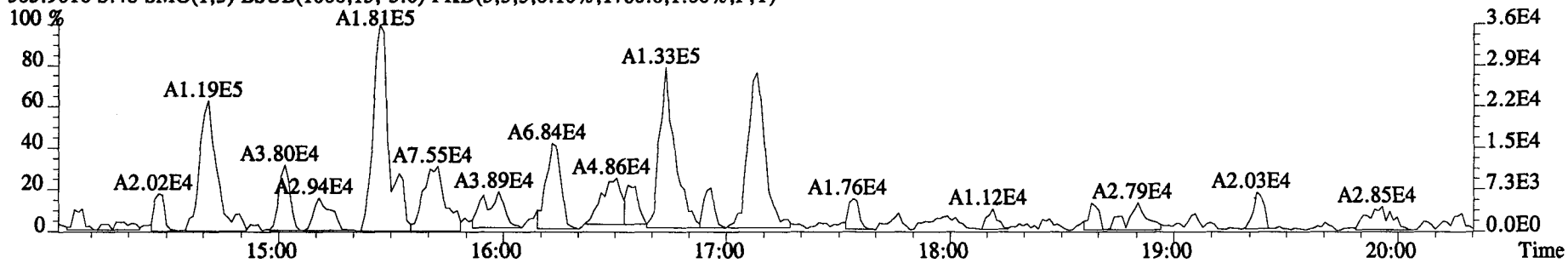
Run Text: L5LA1-1-AA Sample text: L5LA1-1-AA :G0H140454-4

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:6
Run: 14 File: 16AU10B1D5 S:48 Acq:18-AUG-10 02:38:11
Tables: Run: 16AU10B1D5 Analyte: TO92XC Cal: TO90727101D5 Results: 16AU10B1

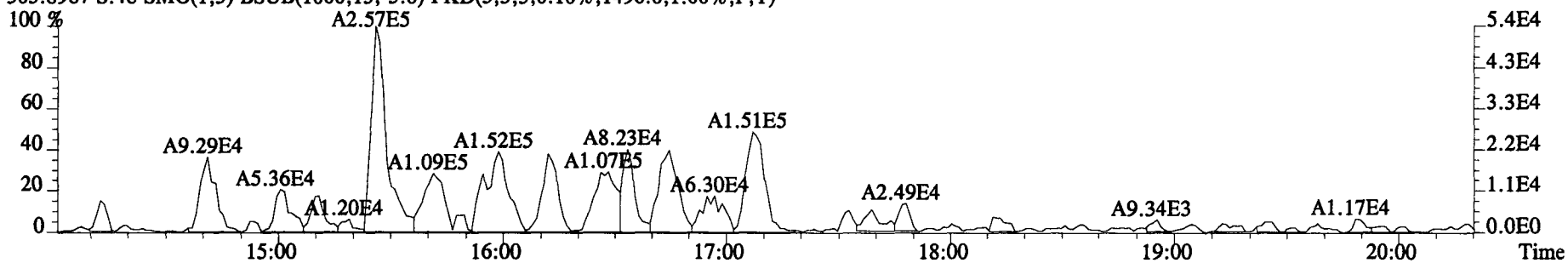
Amount: 12.64 of which 2.90 named and 9.74 unnamed
Conc: 25.28 of which 5.80 named and 19.47 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:13	1.91	n	6.71	44540	7.8	y	n
						23320	5.6	y	n
1,2,3,4,6,7,8-HpCDD	2	34:50	1.40	n	5.80	28270	5.2	y	n
						20176	4.4	y	n
	3	34:59	2.36	n	6.17	50673	9.2	y	n
						21464	5.8	y	n
	4	35:09	1.12	y	2.87	10750	2.7	n	n
						9609	2.5	n	n
	5	35:14	1.61	n	2.42	13533	2.6	n	n
						8403	1.9	n	n
	6	35:56	0.67	n	1.31	4729	1.1	n	n
						7015	1.3	n	n

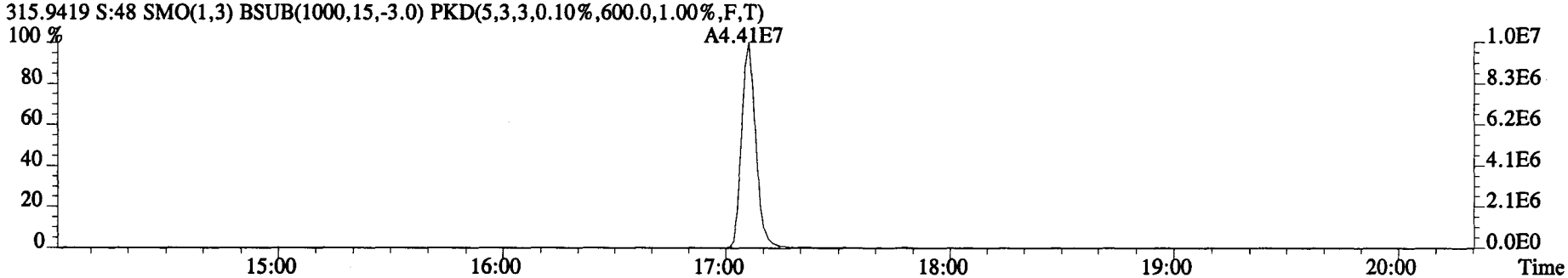
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
303.9016 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1780.0,1.00%,F,T)



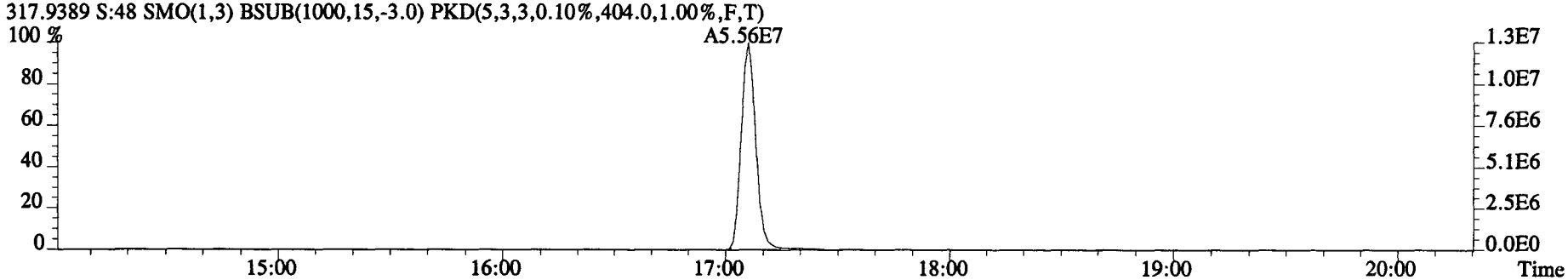
305.8987 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1496.0,1.00%,F,T)



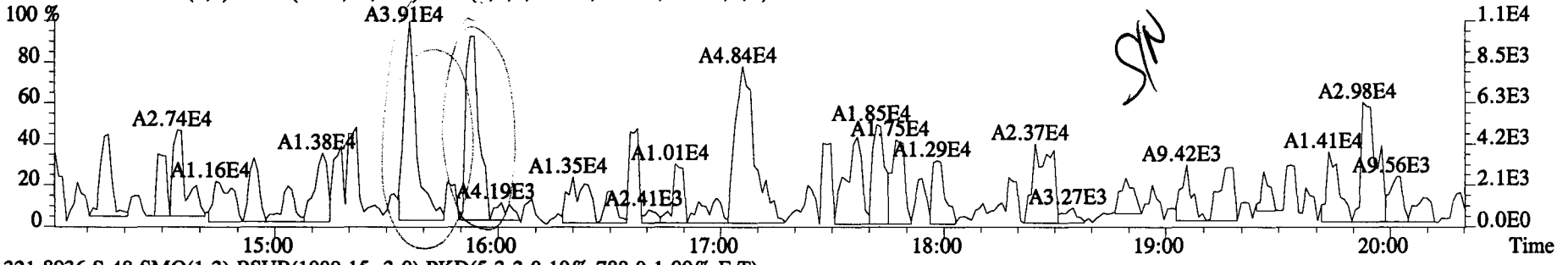
315.9419 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T)



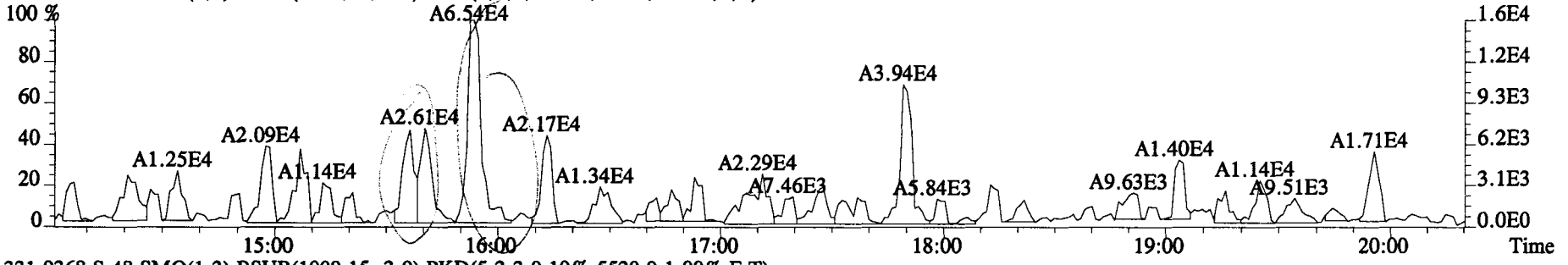
317.9389 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,404.0,1.00%,F,T)



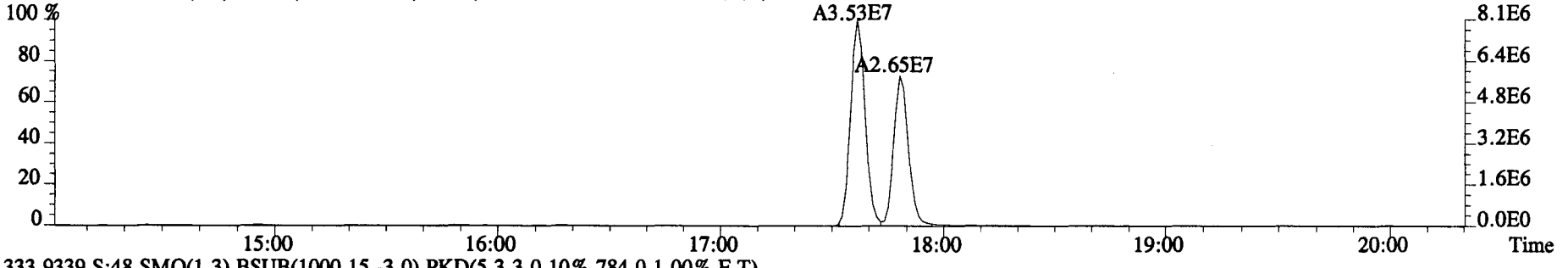
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
319.8965 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)



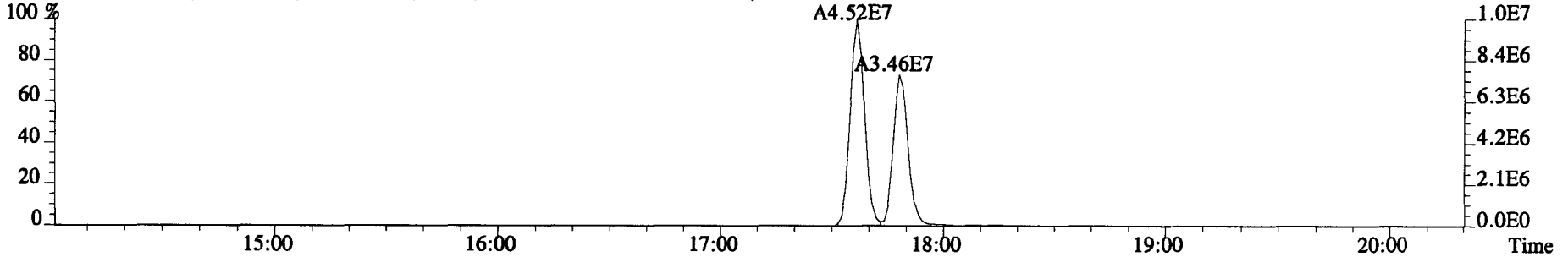
321.8936 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)



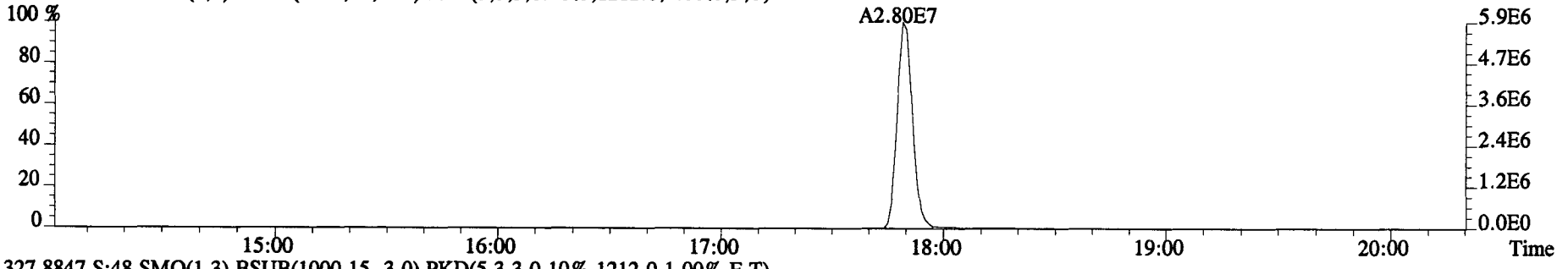
331.9368 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5520.0,1.00%,F,T)



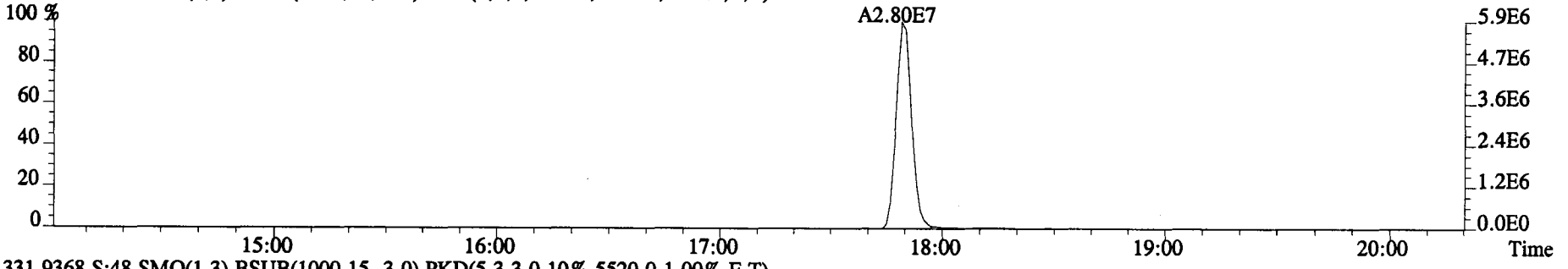
333.9339 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



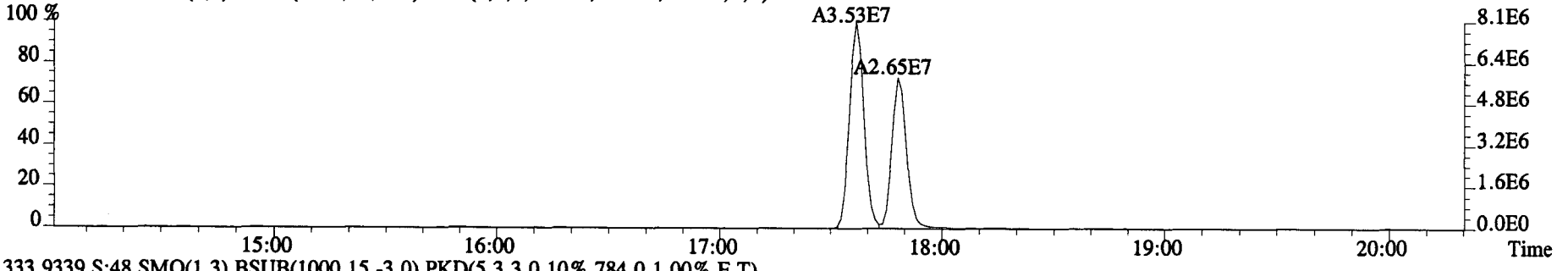
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
327.8847 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)



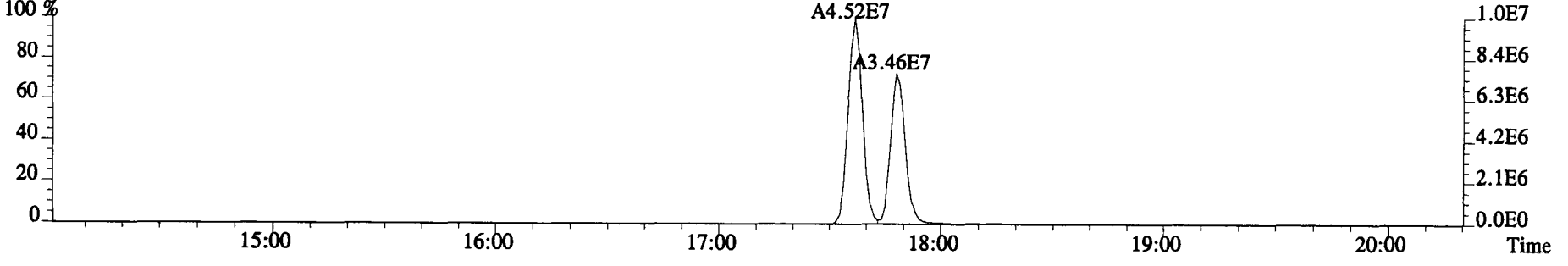
327.8847 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)



331.9368 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5520.0,1.00%,F,T)

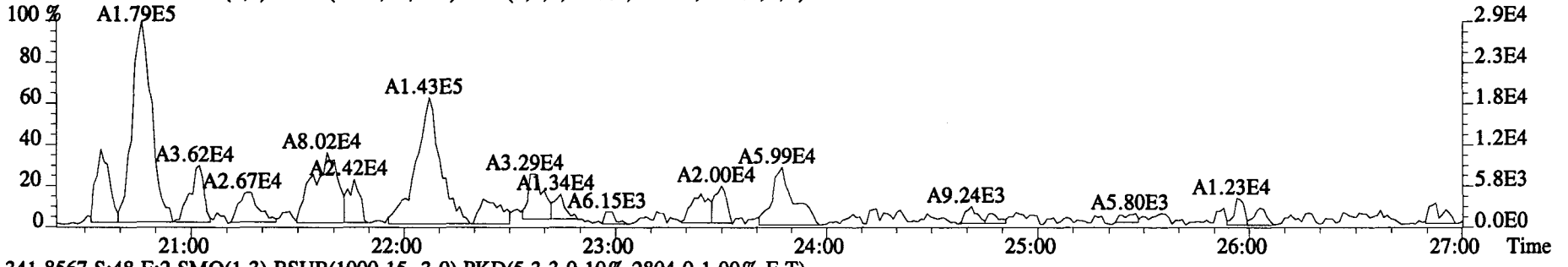


333.9339 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)

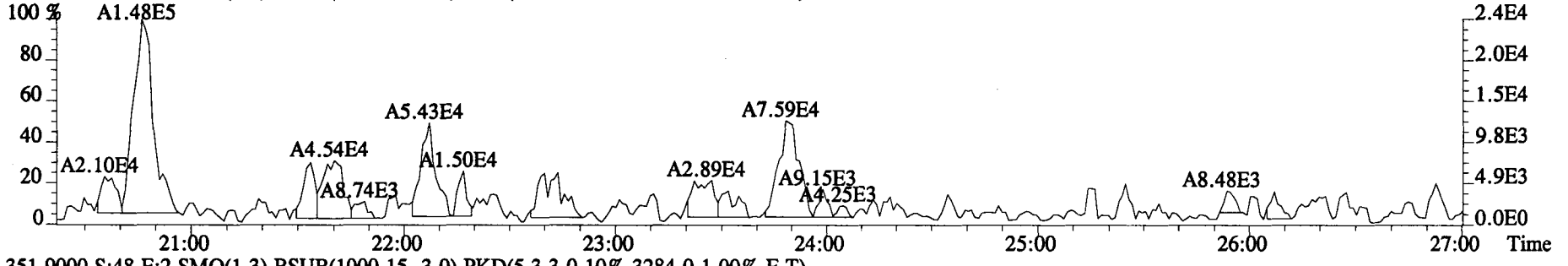


File:16AU10B1D5 #1-414 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES

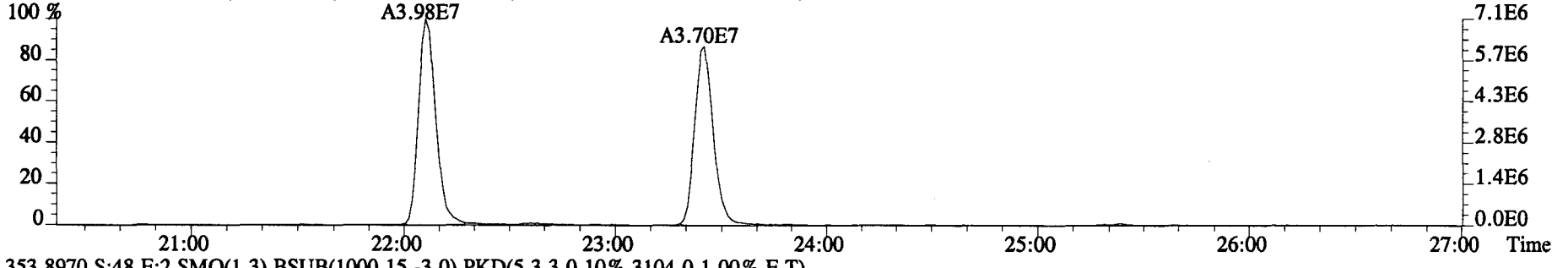
339.8597 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



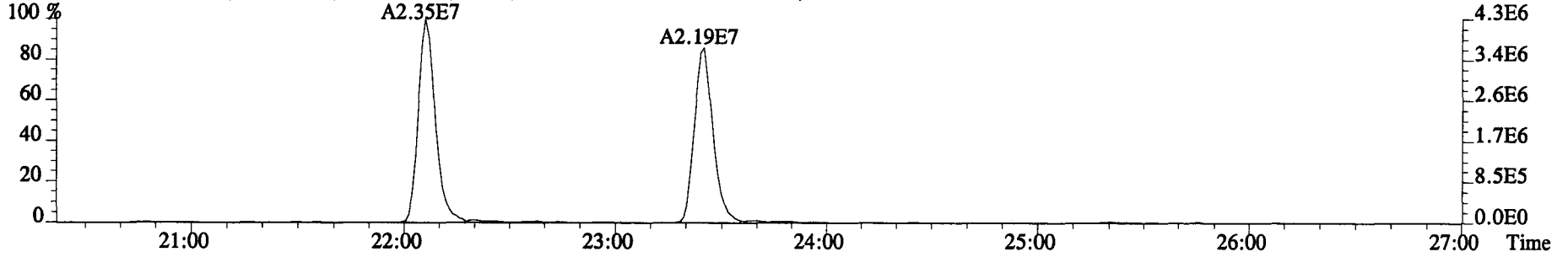
341.8567 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2804.0,1.00%,F,T)



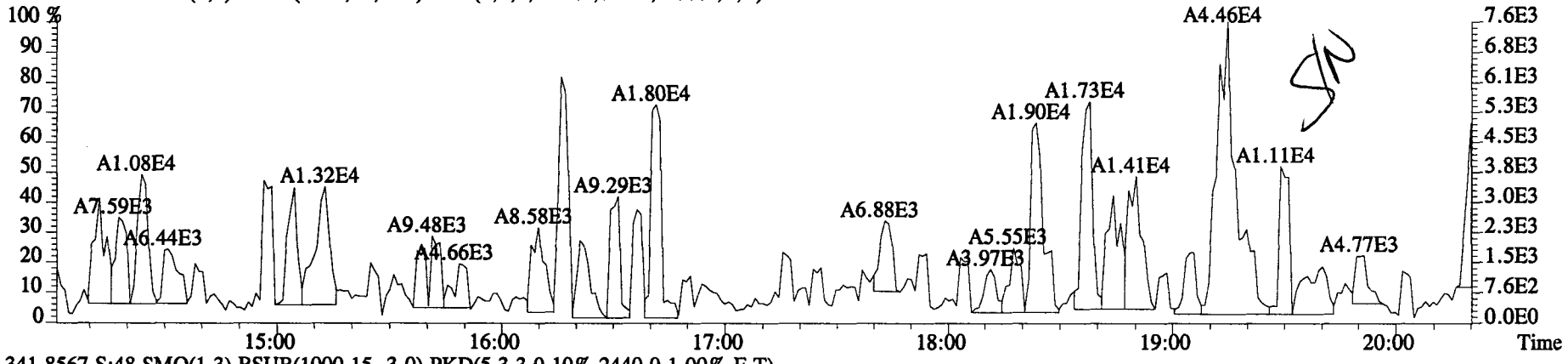
351.9000 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3284.0,1.00%,F,T)



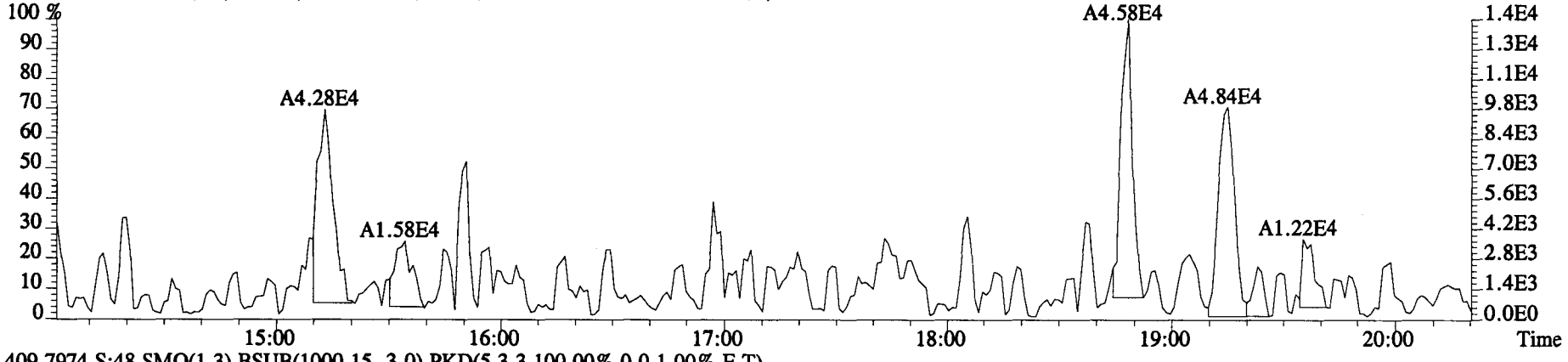
353.8970 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3104.0,1.00%,F,T)



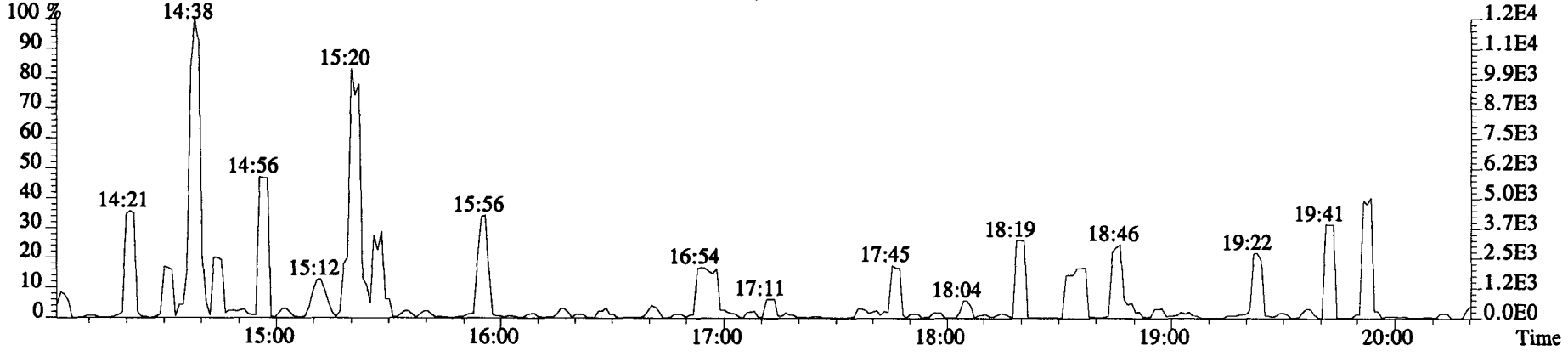
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
339.8597 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,848.0,1.00%,F,T)



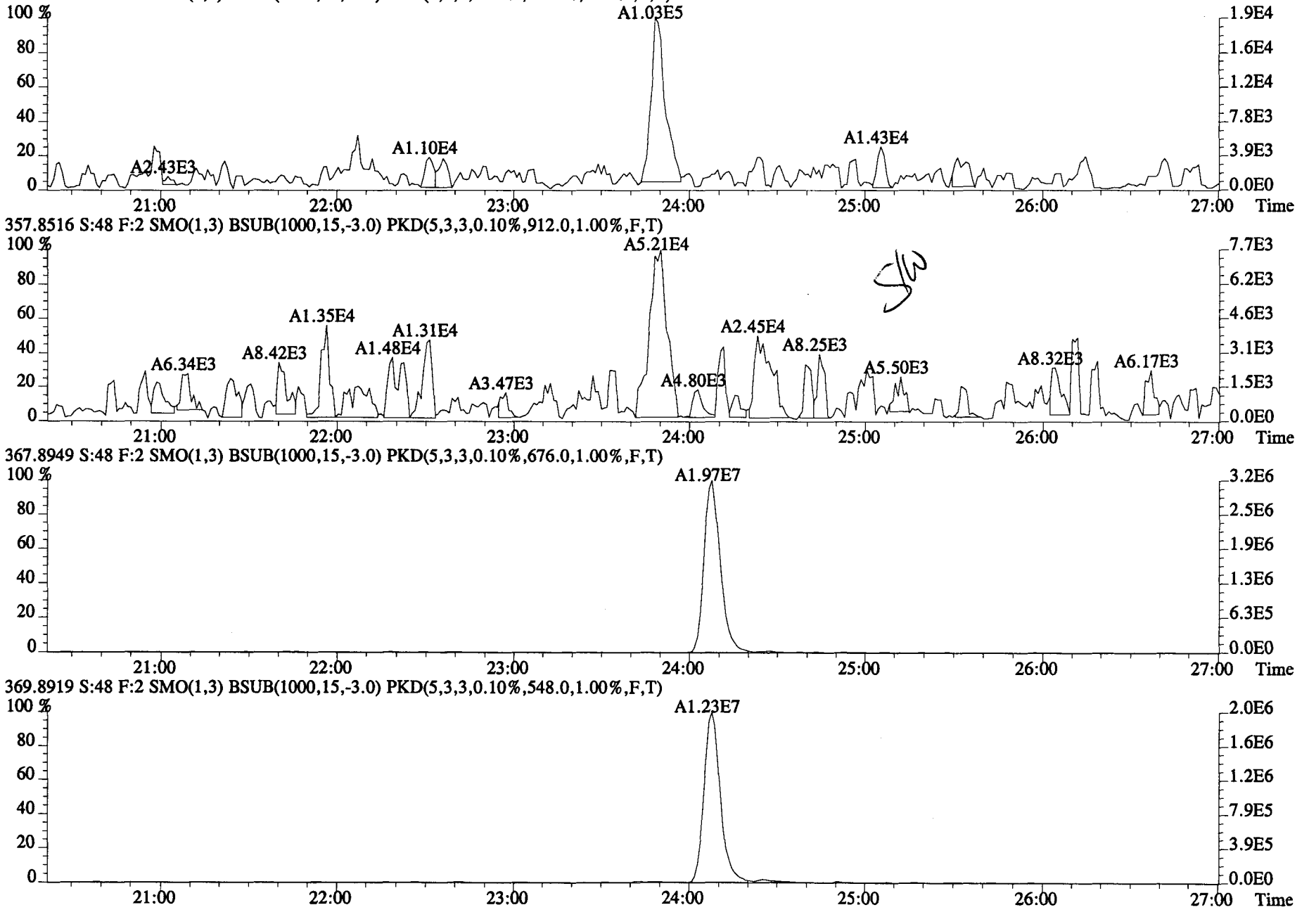
341.8567 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2440.0,1.00%,F,T)



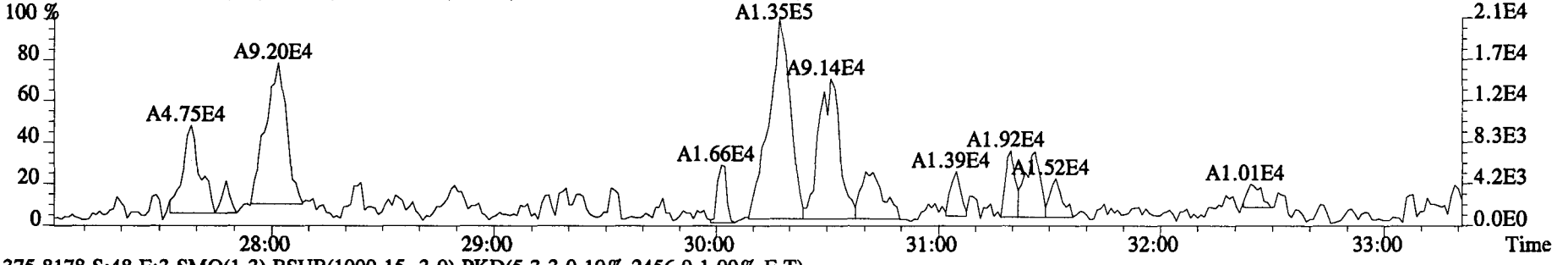
409.7974 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



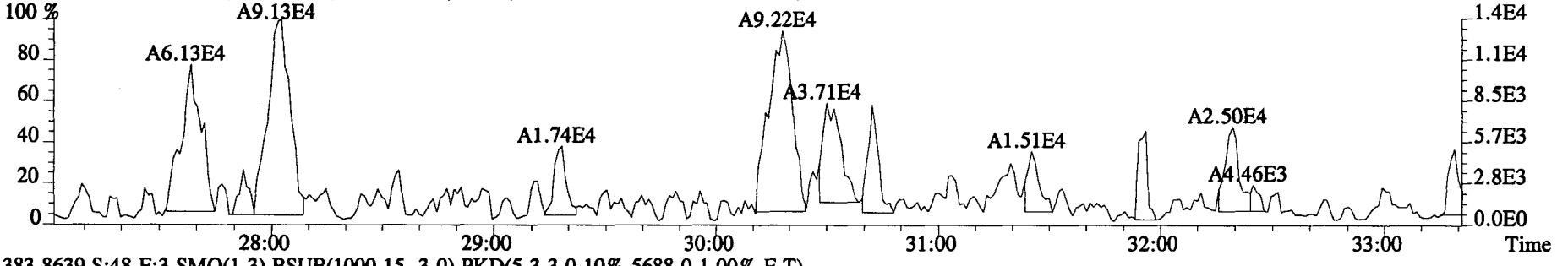
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES



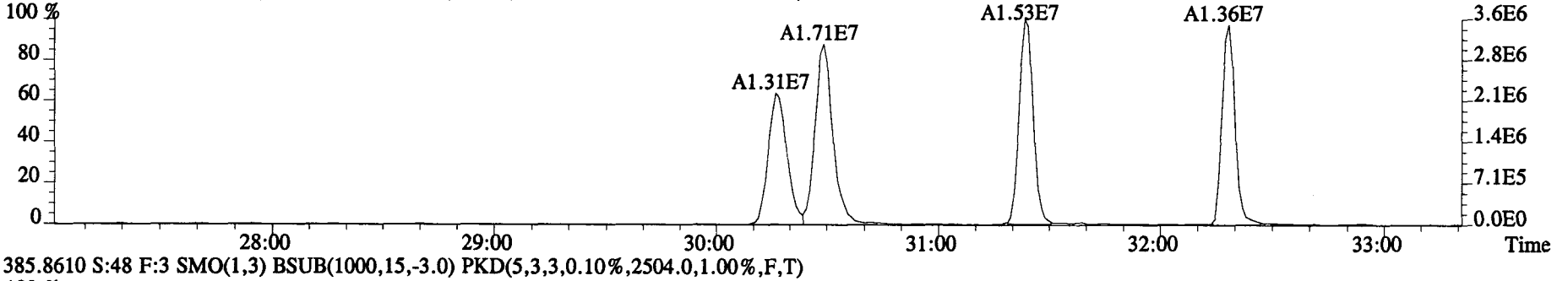
File:16AU10B1D5 #1-407 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
373.8208 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2136.0,1.00%,F,T)



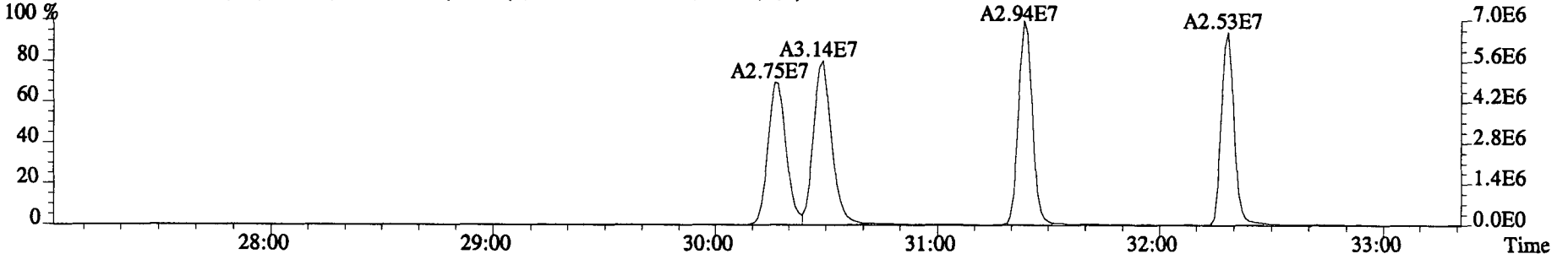
375.8178 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2456.0,1.00%,F,T)



383.8639 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5688.0,1.00%,F,T)

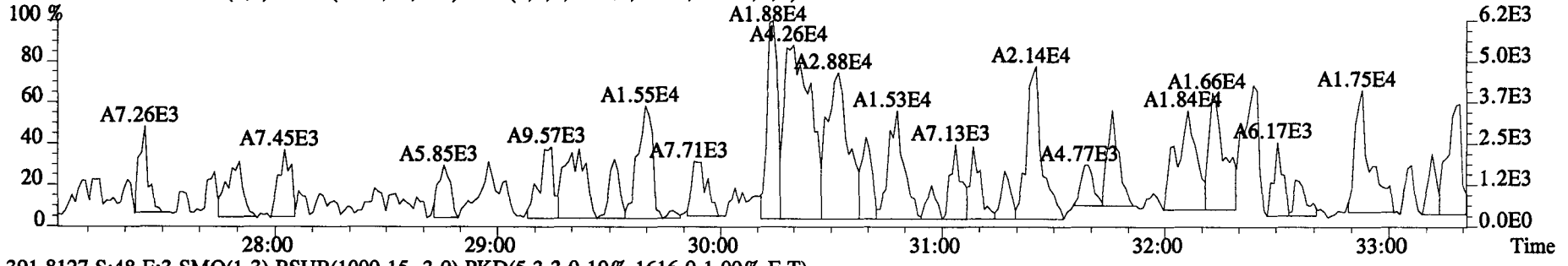


385.8610 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2504.0,1.00%,F,T)

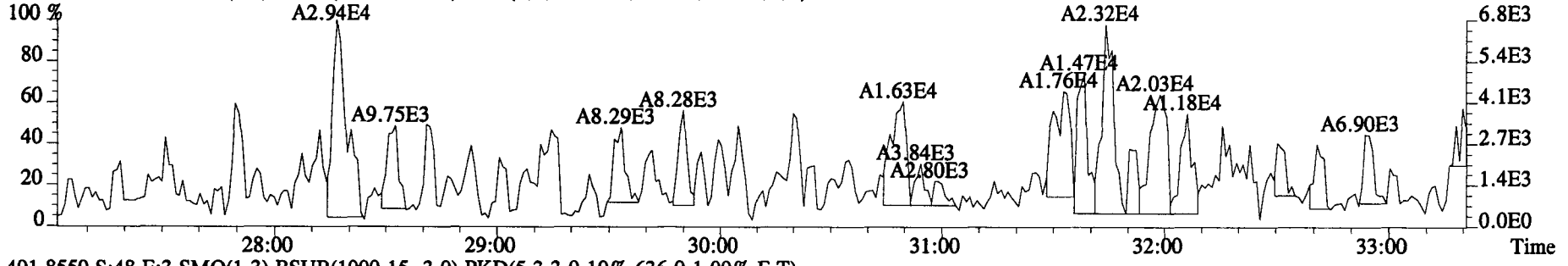


File:16AU10B1D5 #1-407 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES

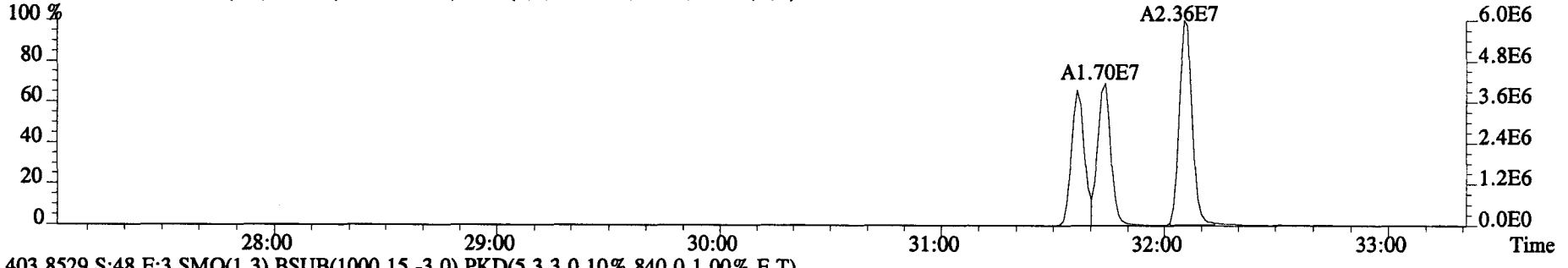
389.8157 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



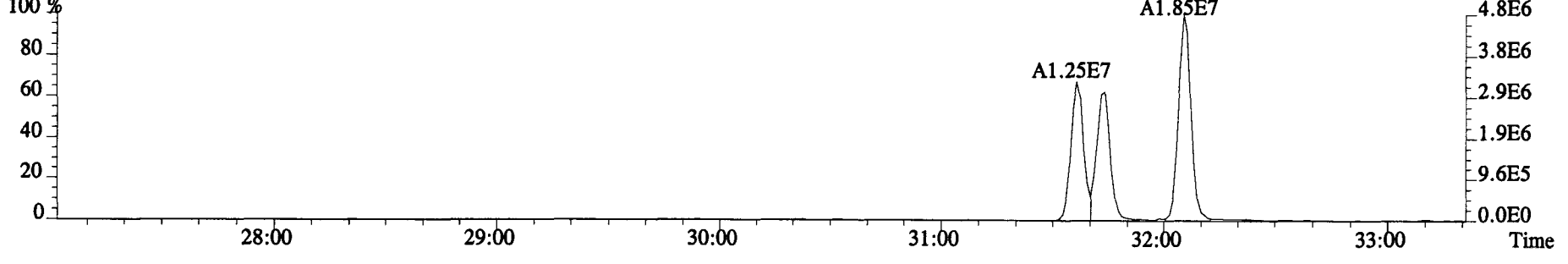
391.8127 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



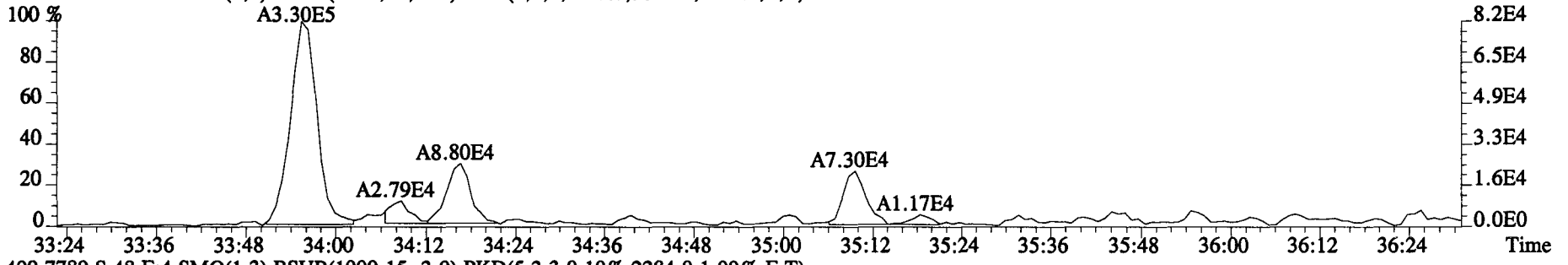
401.8559 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)



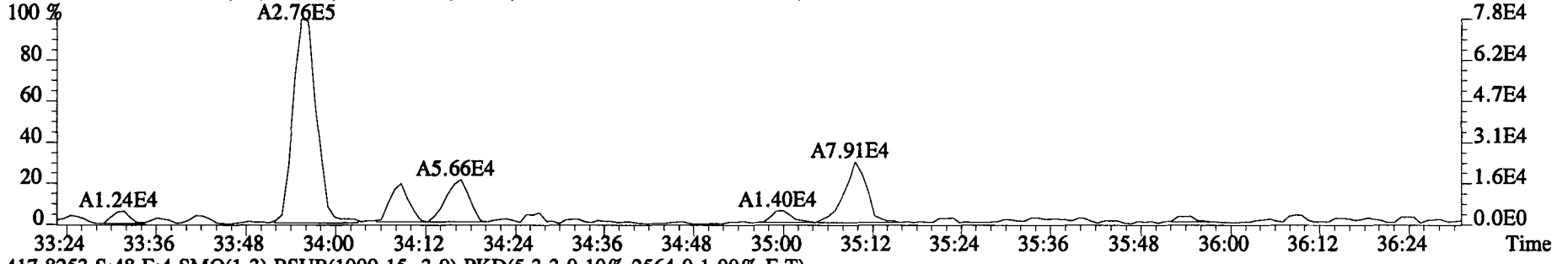
403.8529 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)



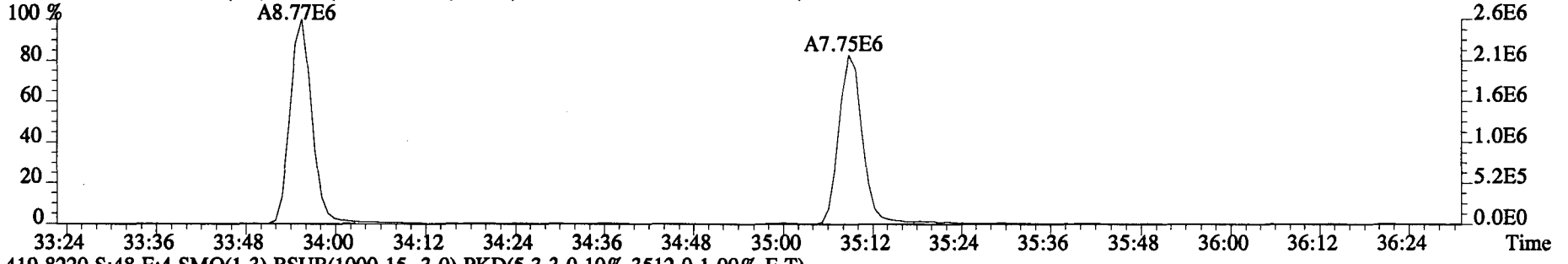
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
407.7818 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3032.0,1.00%,F,T)



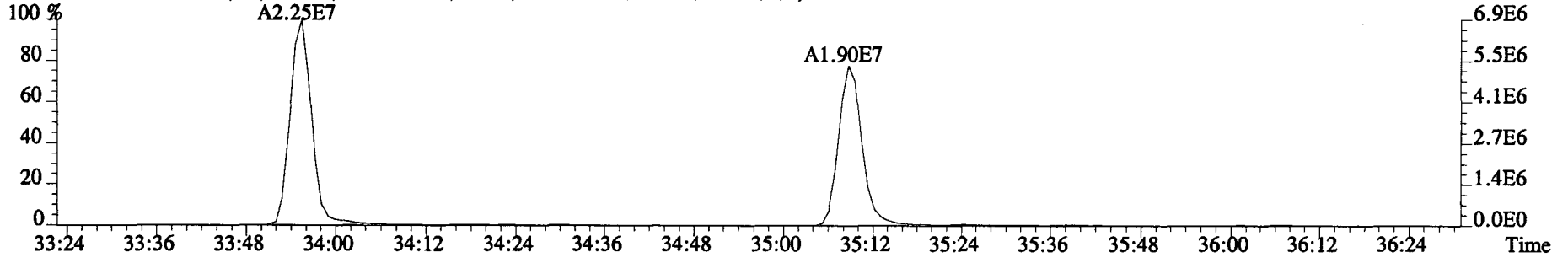
409.7789 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2284.0,1.00%,F,T)



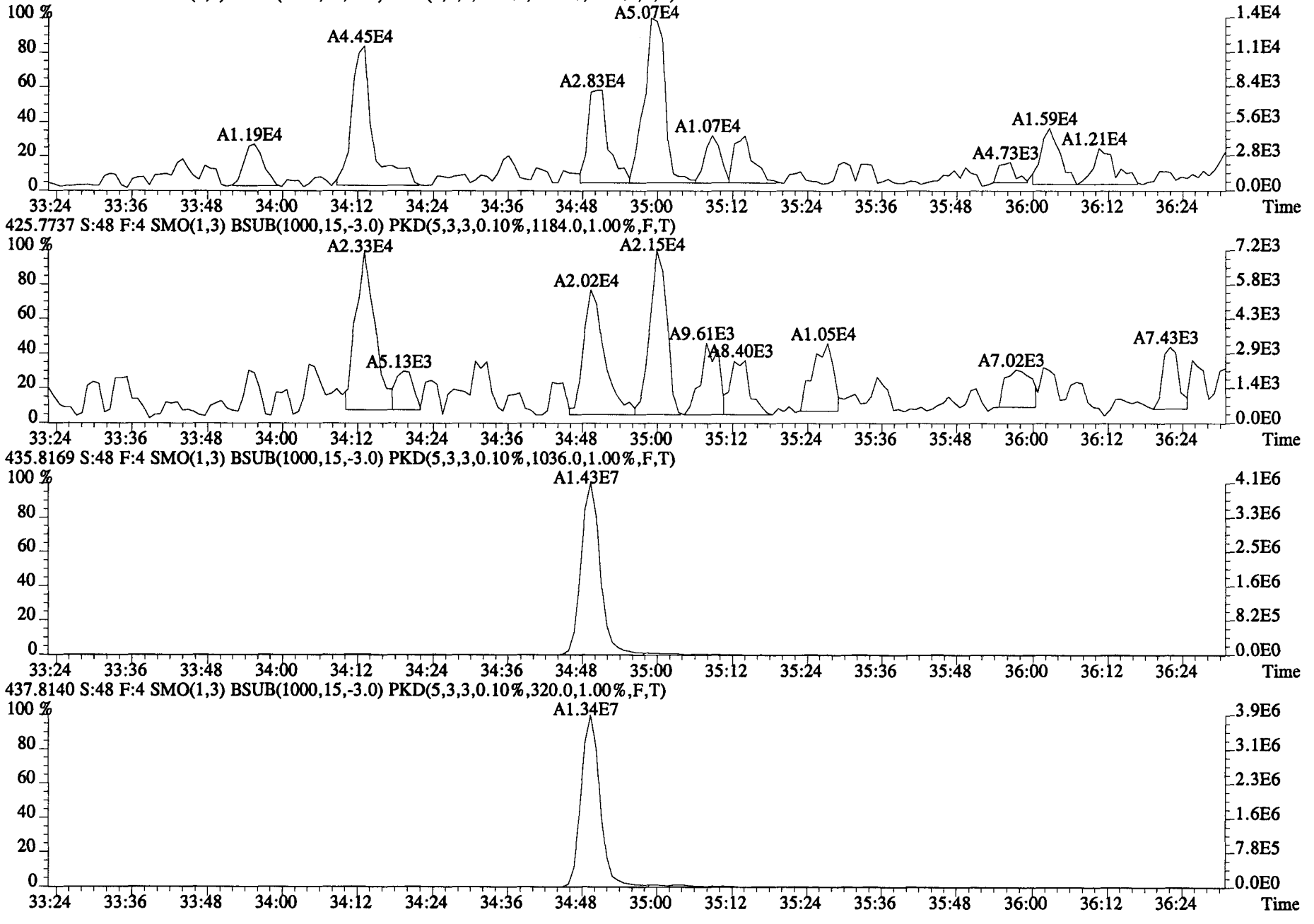
417.8253 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2564.0,1.00%,F,T)



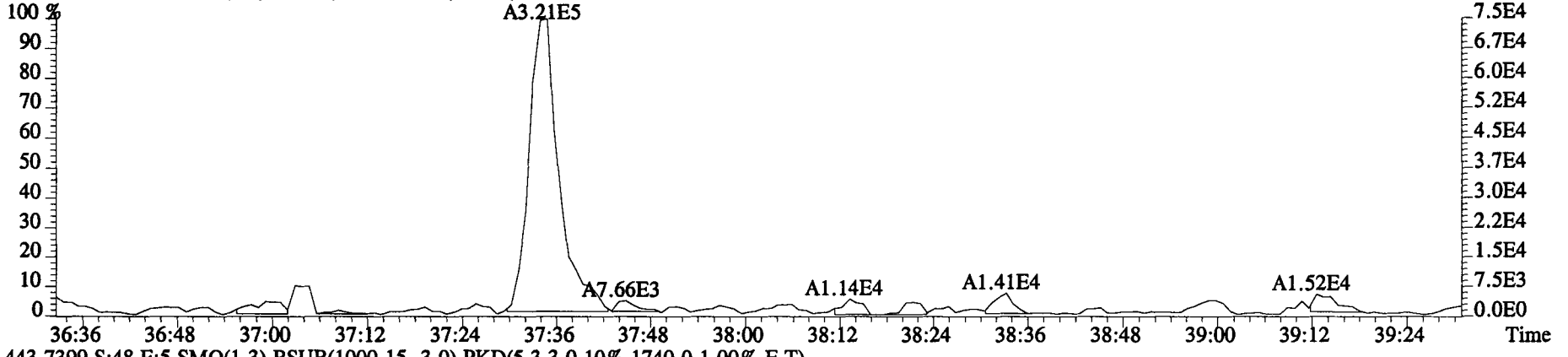
419.8220 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3512.0,1.00%,F,T)



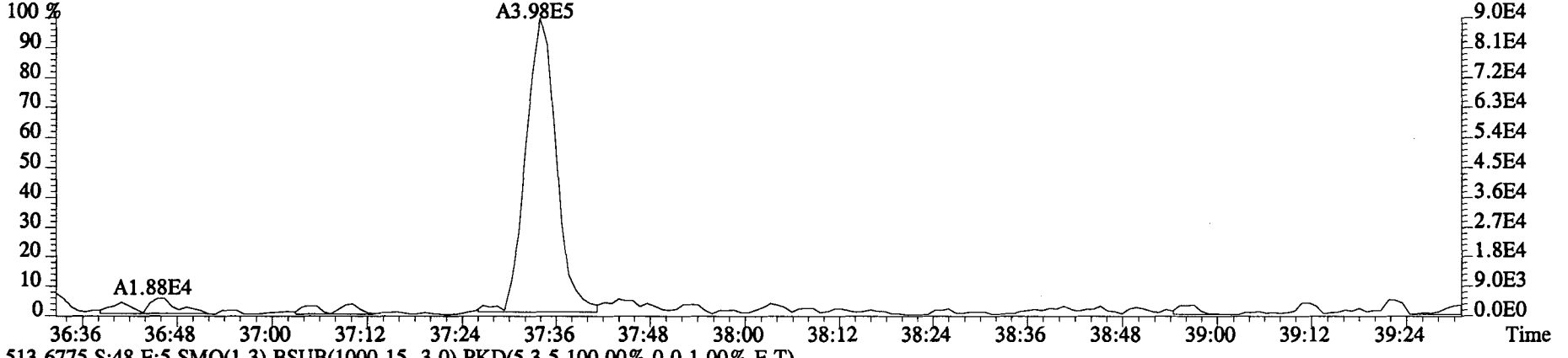
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES



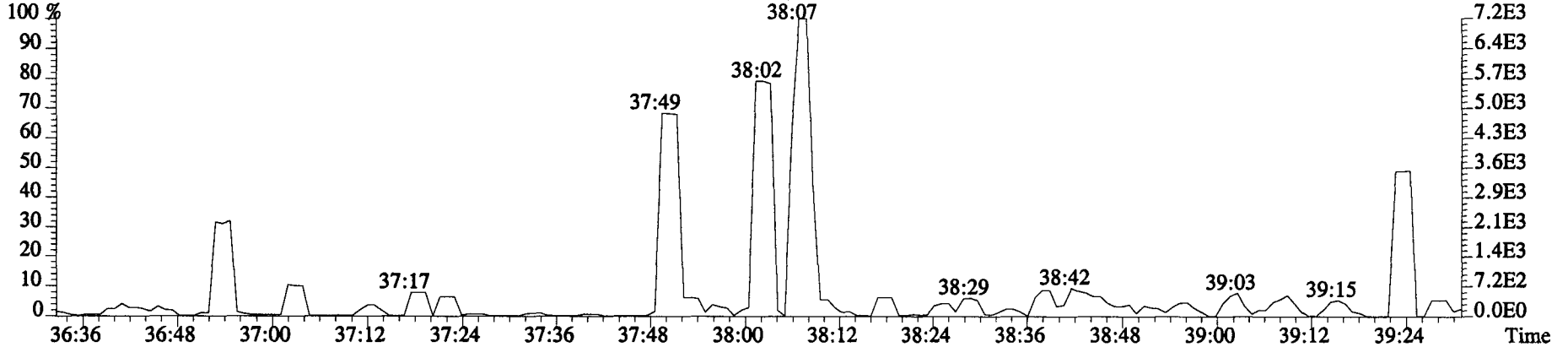
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
441.7428 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2380.0,1.00%,F,T)



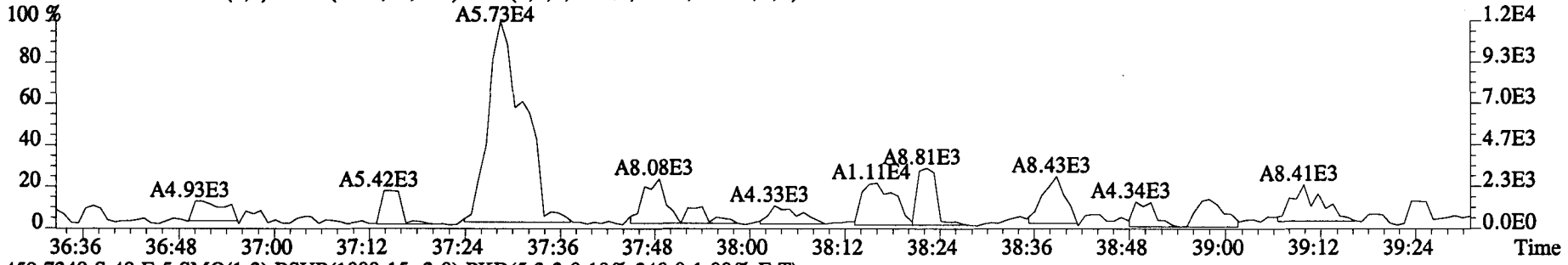
443.7399 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1740.0,1.00%,F,T)



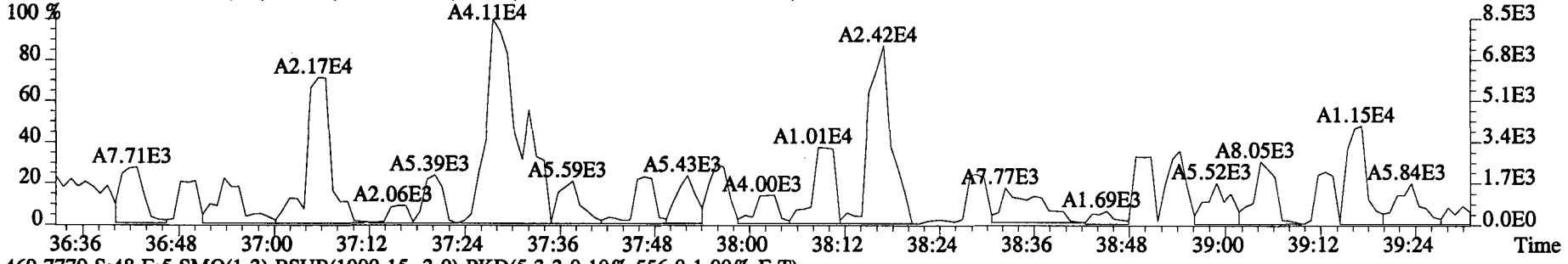
513.6775 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



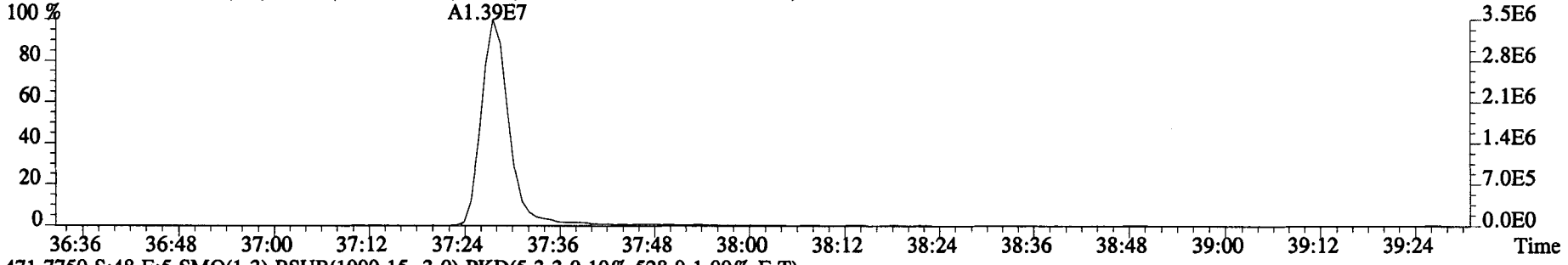
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
457.7377 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,672.0,1.00%,F,T)



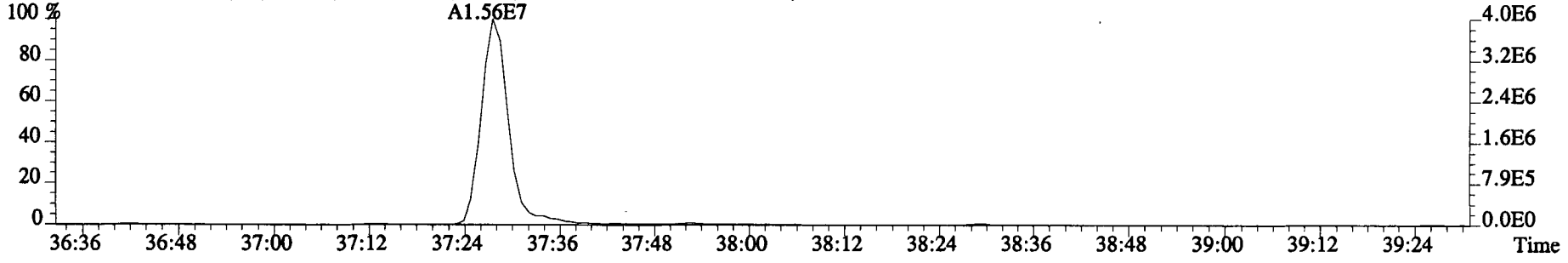
459.7348 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,240.0,1.00%,F,T)



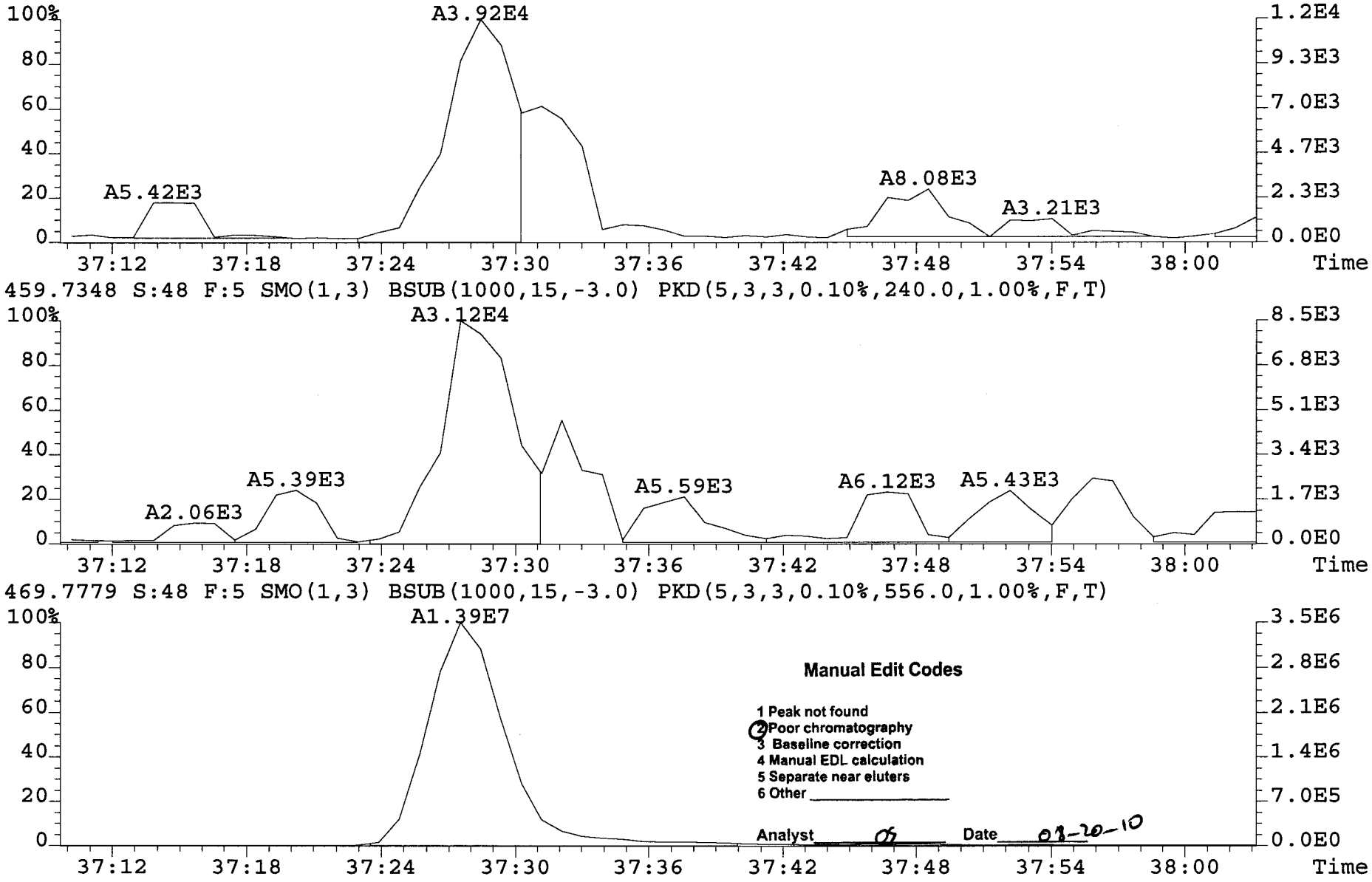
469.7779 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,556.0,1.00%,F,T)



471.7750 S:48 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,528.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES



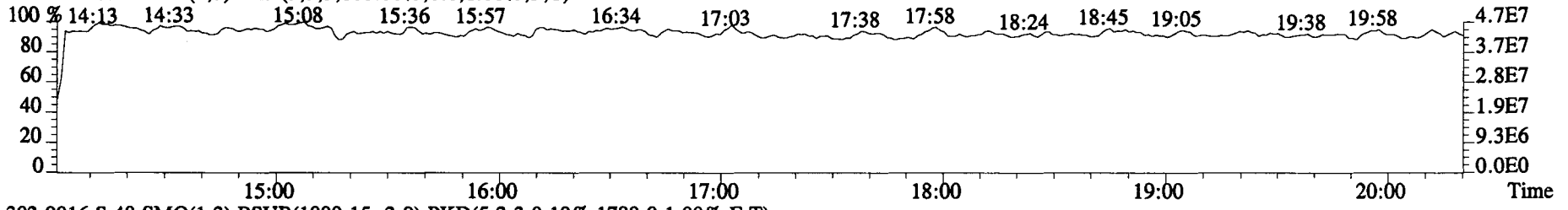
Manual Edit Codes

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

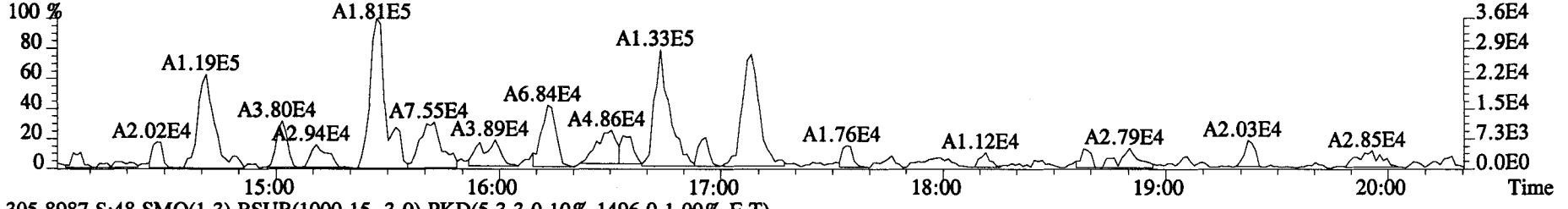
Analyst _____ Date 08-20-10

File:16AU10B1D5 #1-372 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES

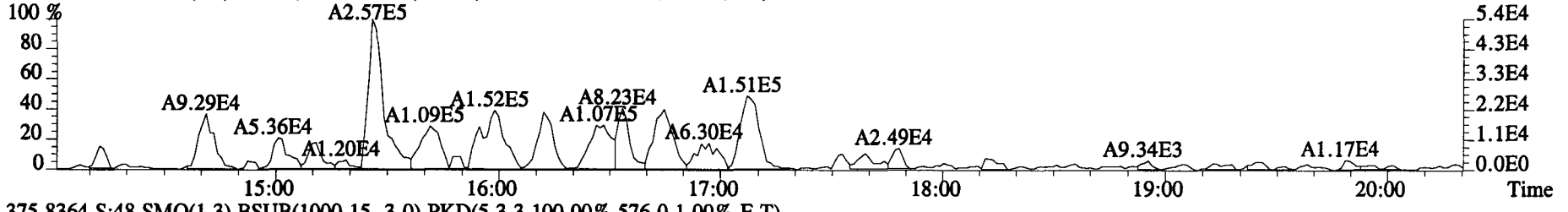
292.9825 S:48 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



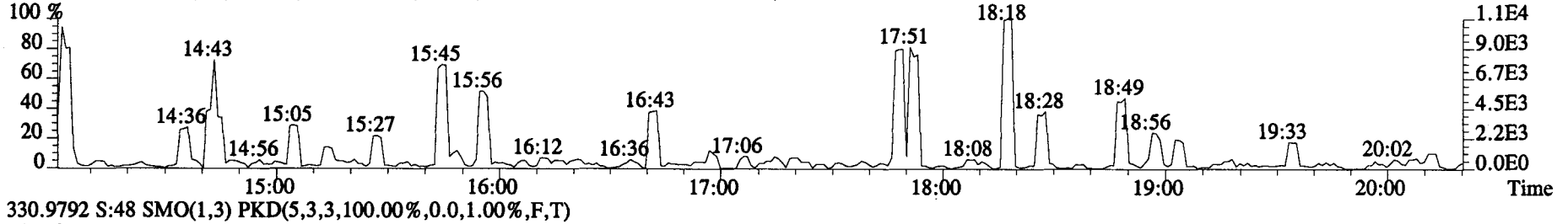
303.9016 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1780.0,1.00%,F,T)



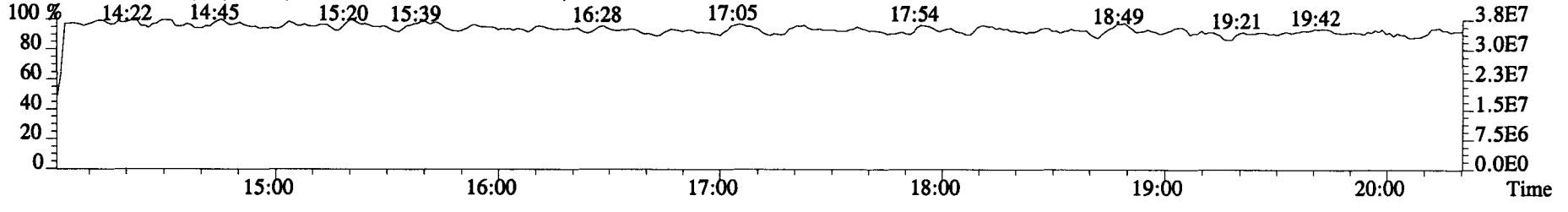
305.8987 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1496.0,1.00%,F,T)



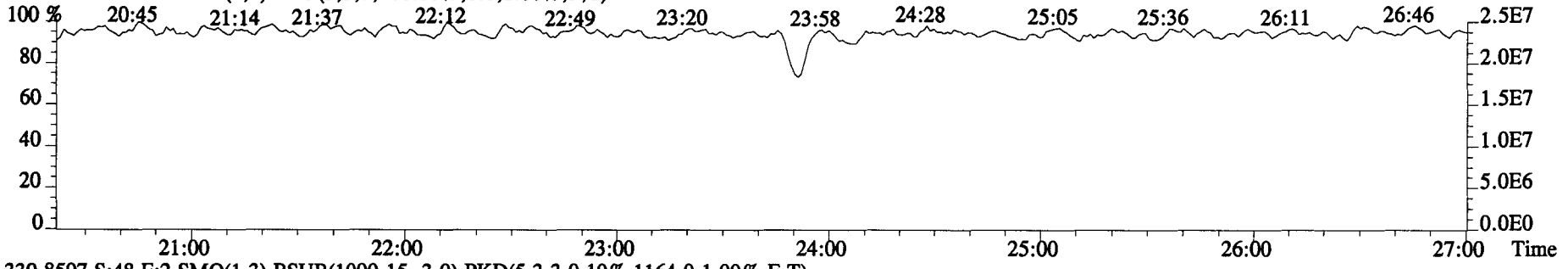
375.8364 S:48 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,576.0,1.00%,F,T)



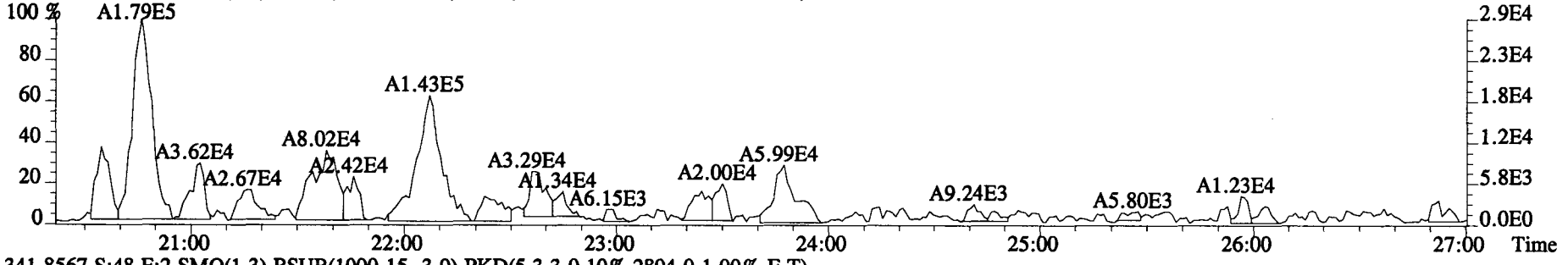
330.9792 S:48 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



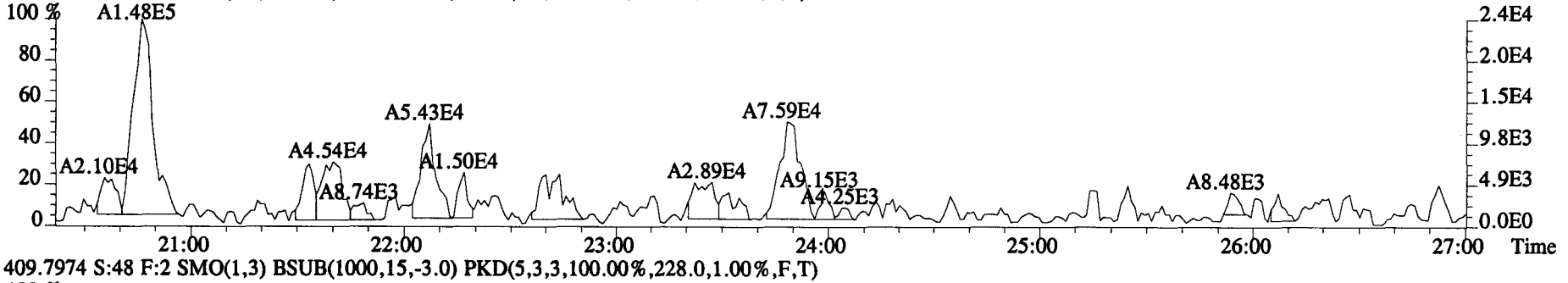
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
342.9792 S:48 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



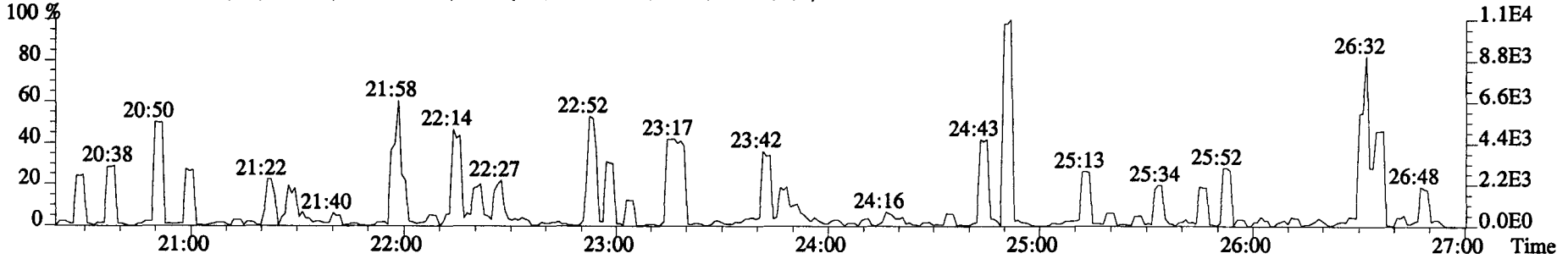
339.8597 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



341.8567 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2804.0,1.00%,F,T)

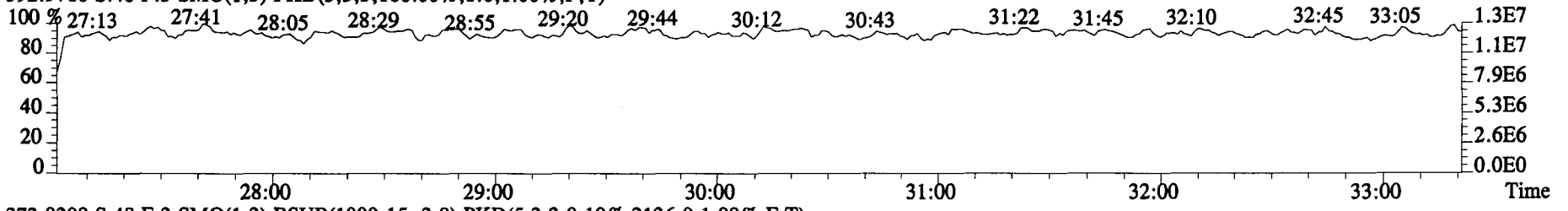


409.7974 S:48 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,228.0,1.00%,F,T)

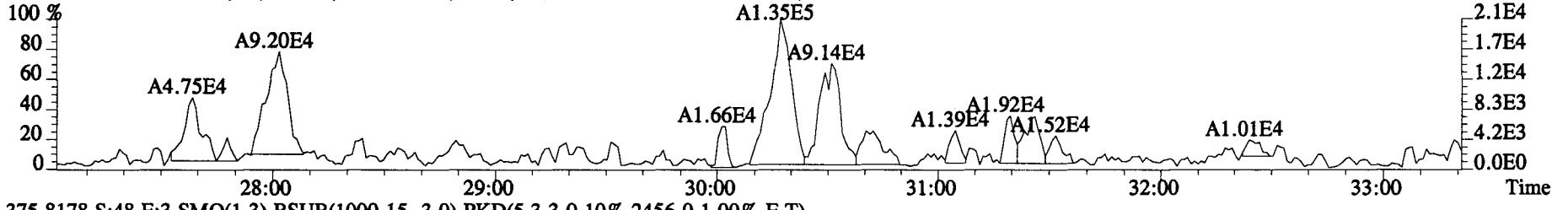


File:16AU10B1D5 #1-407 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES

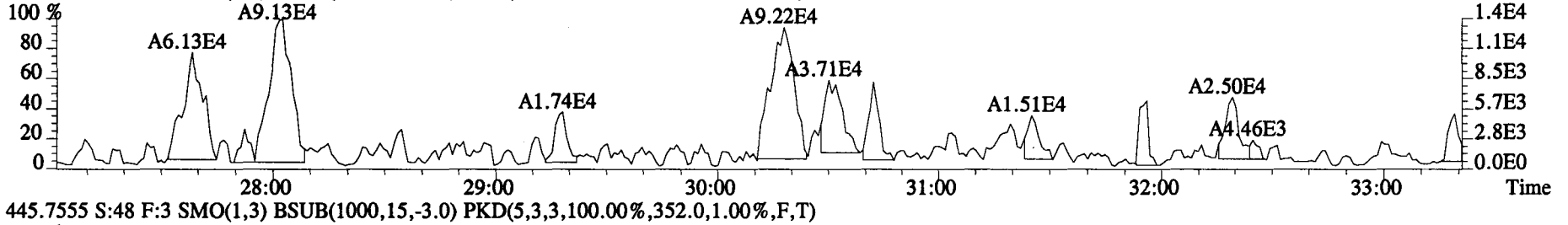
392.9760 S:48 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



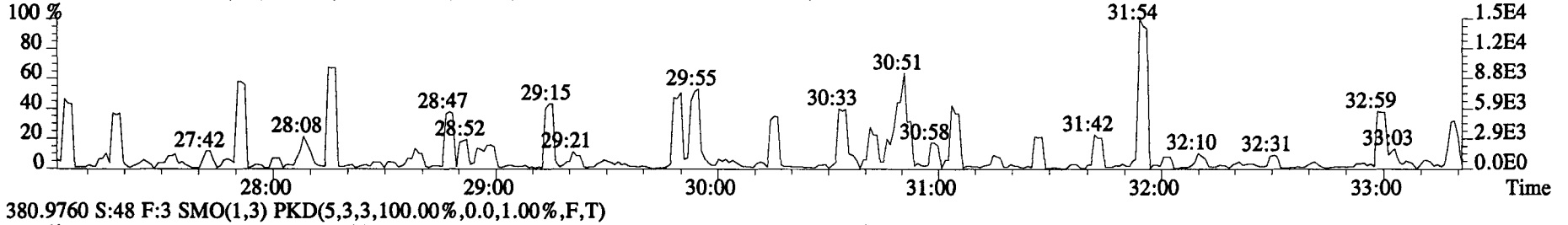
373.8208 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2136.0,1.00%,F,T)



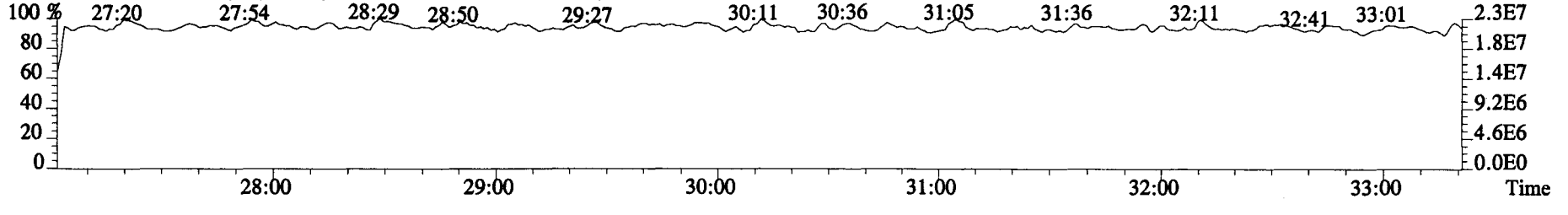
375.8178 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2456.0,1.00%,F,T)



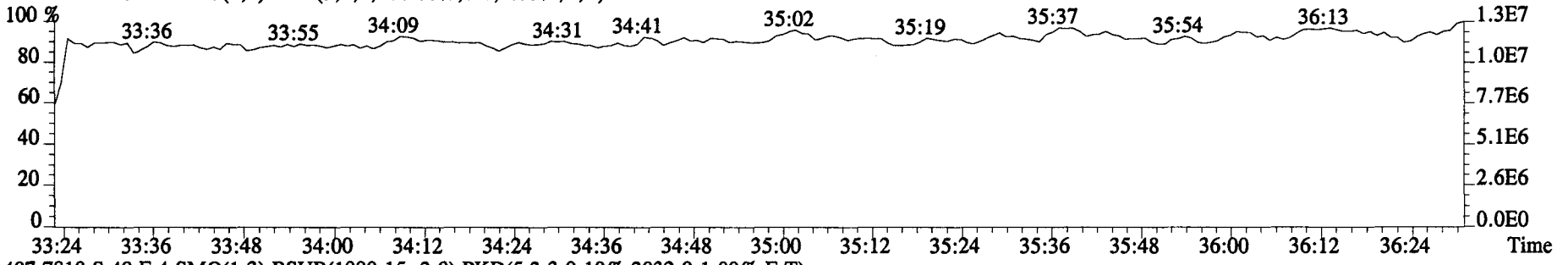
445.7555 S:48 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,352.0,1.00%,F,T)



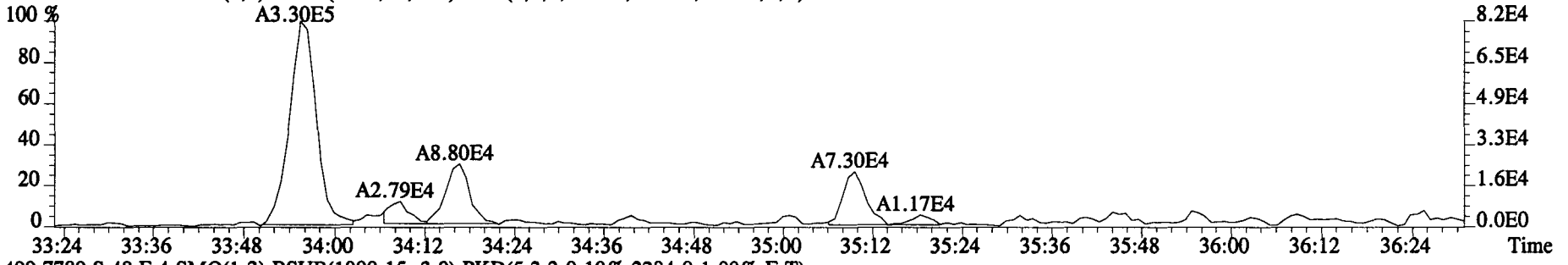
380.9760 S:48 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



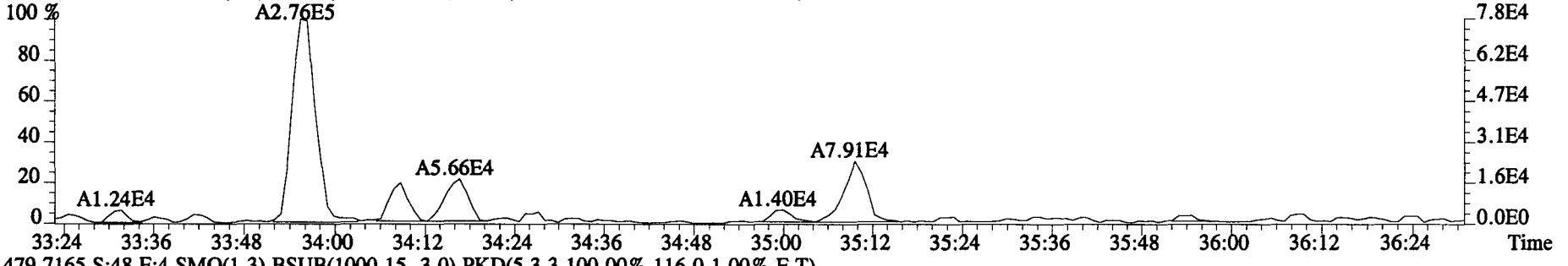
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
430.9728 S:48 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



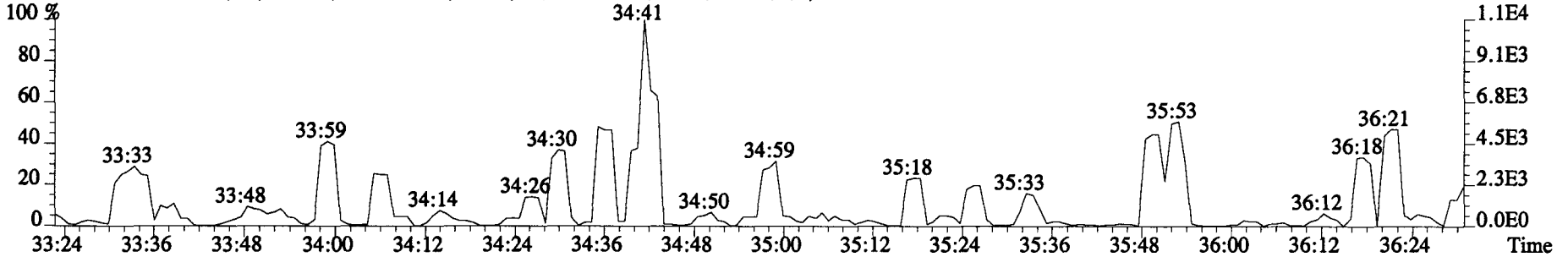
407.7818 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3032.0,1.00%,F,T)



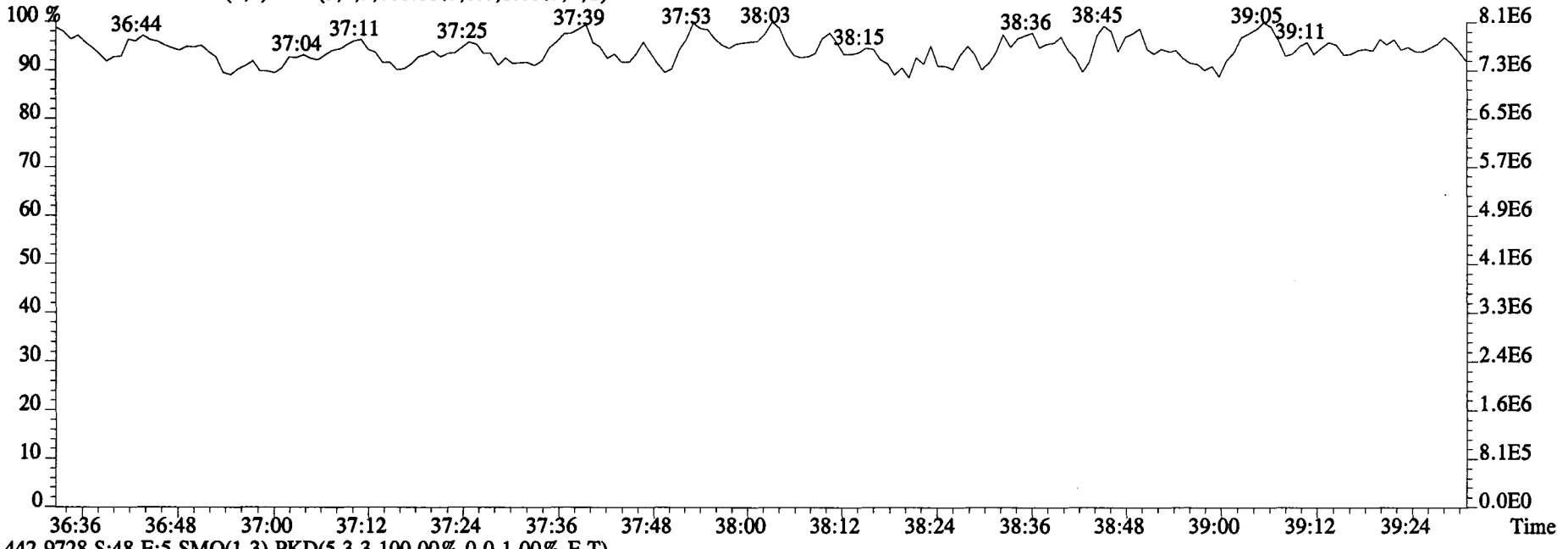
409.7789 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2284.0,1.00%,F,T)



479.7165 S:48 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,116.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 02:38:11 GC EI+ Voltage SIR 70SE
Sample#48 Text:L5LA1-1-AA :G0H140454-4 Exp:DIOXINRES
454.9728 S:48 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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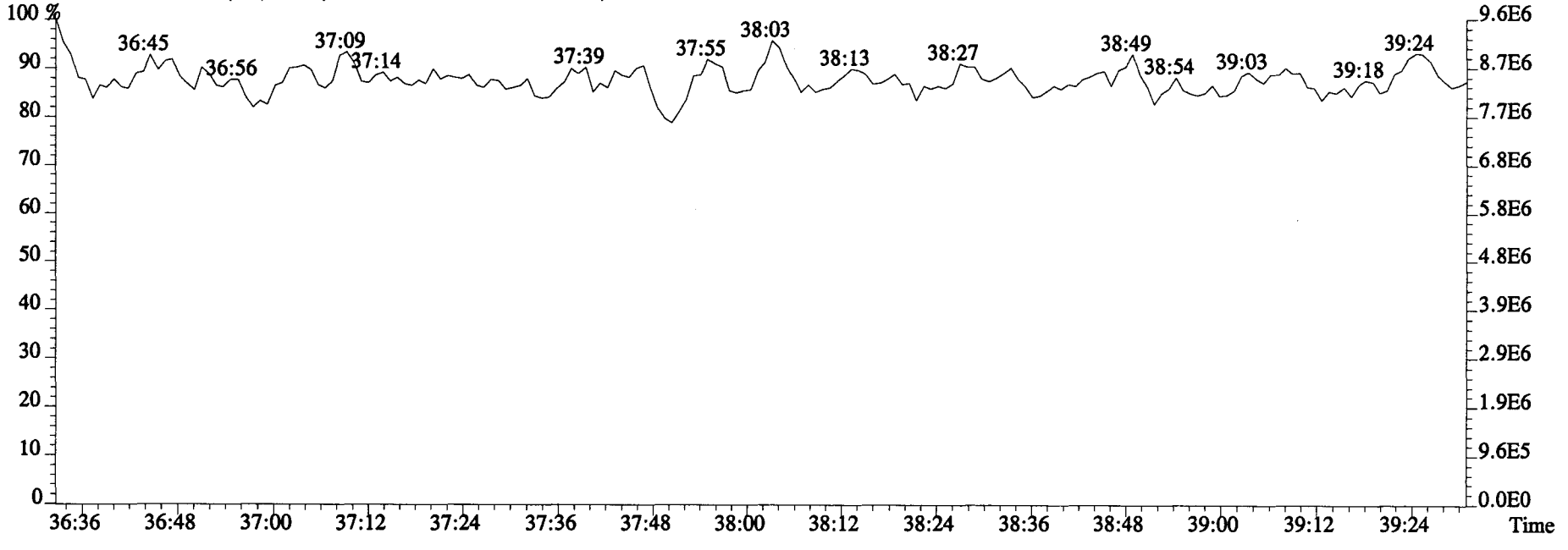


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID TO9 **Associated ICAL** TO90727101D5

Column ID DB5 **Instrument ID** 1D5

STD ID ST0816E, ST0816F **STD Solution** 10DXN336

Analyzed by MG, AM **Date Analyzed** 08/17/10, 08/18/10

Std. Pkg. By JRB **Date Std. Pkg. Assembled** 8/18/10

Std. Pkg. Reviewed By AS **Date Std. Pkg. Reviewed** 08-18-10

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: ST0816E File text: ST0816E :CS3 10DXN336
Run #6 Filename 16AU10B1D5 S: 40 I: 1
Acquired: 17-AUG-10 20:46:24 Processed: 17-AUG-10 21:38:52
Run: 16AU10B1D5 Analyte: TO9 Cal: TO90727101D5 Results: 16AU10B1D5TO9

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	100726800	0.81	y	17:40	-	100.00	-	n
13C-2,3,7,8-TCDF	145828800	0.79	y	17:09	1.45	100.00	-7.3	n
2,3,7,8-TCDF	12848320	0.76	y	17:10	0.88	10.00	0.7	n
Total TCDF	13028928	1.67	n	15:04	0.88	10.00	0.7	n
13C-2,3,7,8-TCDD	90595300	0.81	y	17:51	0.90	100.00	-3.8	n
2,3,7,8-TCDD	7559600	0.76	y	17:53	0.83	10.00	-12.8	n
Total TCDD	7757921	0.66	y	14:49	0.83	10.00	-12.8	n
37Cl-2,3,7,8-TCDD	9877400	1.00	y	17:52	1.09	10.00	-10.4	n
13C-1,2,3,7,8-PeCDF	106180700	1.60	y	22:09	1.05	100.00	-0.7	n
1,2,3,7,8-PeCDF	52157100	1.68	y	22:11	0.98	50.00	-9.0	n
2,3,4,7,8-PeCDF	47007400	1.62	y	23:29	0.89	50.00	-9.7	n
Total F2 PeCDF	100256278	2.39	n	20:50	0.93	100.00	-9.3	n
Total F1 PeCDF	250979	0.78	n	14:55	0.93	100.00	-9.3	n
13C-1,2,3,7,8-PeCDD	54181700	1.64	y	24:10	0.54	100.00	-16.8	n
1,2,3,7,8-PeCDD	28000600	1.66	y	24:12	1.03	50.00	11.8	n
Total PeCDD	28173289	2.76	n	23:53	1.03	50.00	11.8	n
13C-1,2,3,7,8,9-HxCDD	57818300	1.33	y	32:07	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	64671100	0.51	y	30:19	1.12	100.00	13.4	n
1,2,3,4,7,8-HxCDF	39255300	1.30	y	30:21	1.21	50.00	5.2	n
1,2,3,6,7,8-HxCDF	42200900	1.27	y	30:33	1.31	50.00	5.0	n
2,3,4,6,7,8-HxCDF	39883900	1.27	y	31:26	1.23	50.00	1.3	n
1,2,3,7,8,9-HxCDF	35980400	1.24	y	32:20	1.11	50.00	-6.1	n
Total HxCDF	157386069	1.30	y	30:21	1.22	200.00	1.4	n
13C-1,2,3,6,7,8-HxCDD	47874800	1.30	y	31:45	0.83	100.00	7.8	n
1,2,3,4,7,8-HxCDD	24294000	1.27	y	31:39	1.01	50.00	-1.4	n
1,2,3,6,7,8-HxCDD	26346900	1.23	y	31:46	1.10	50.00	-0.5	n
1,2,3,7,8,9-HxCDD	27466600	1.29	y	32:08	1.15	50.00	-7.6	n
Total HxCDD	78107500	1.27	y	31:39	1.09	150.00	-3.4	n
13C-1,2,3,4,6,7,8-HpCDF	53313900	0.43	y	33:56	0.92	100.00	-6.0	n
1,2,3,4,6,7,8-HpCDF	38467900	1.03	y	33:57	1.44	50.00	6.9	n
1,2,3,4,7,8,9-HpCDF	31710200	1.03	y	35:10	1.19	50.00	0.3	n
Total HpCDF	70178100	1.03	y	33:57	1.32	100.00	3.8	n
13C-1,2,3,4,6,7,8-HpCDD	44807900	1.09	y	34:50	0.77	100.00	-3.8	n
1,2,3,4,6,7,8-HpCDD	22699000	1.06	y	34:51	1.01	50.00	-1.3	n
Total HpCDD	22885559	0.66	n	33:27	1.01	50.00	-1.3	n
13C-OCDD	52801700	0.92	y	37:28	0.46	200.00	-25.8	n
OCDF	45563900	0.89	y	37:36	1.73	100.00	19.4	n
OCDD	31358900	0.89	y	37:29	1.19	100.00	8.9	n

Run text: ST0816F File text: ST0816F :CS3 10DXN336
Run #15 Filename 16AU10B1D5 S: 55 I: 1
Acquired: 18-AUG-10 07:45:48 Processed: 18-AUG-10 10:47:01
Run: 16AU10B1D5 Analyte: TO9 Cal: TO90727101D5 Results: 16AU10B1D5TO9

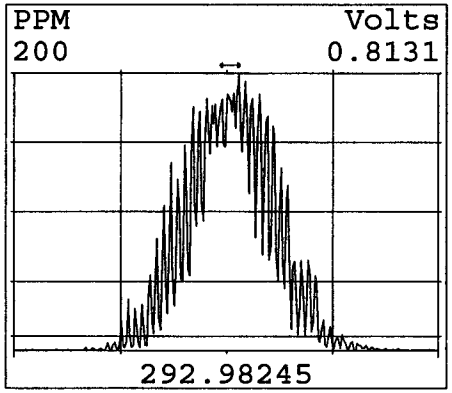
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	119722000	0.82	y	17:34	-	100.00	-	n
13C-2,3,7,8-TCDF	188459600	0.79	y	17:04	1.57	100.00	0.8	n
2,3,7,8-TCDF	14747740	0.76	y	17:05	0.78	10.00	-10.6	n
Total TCDF	14974171	0.58	n	14:58	0.78	10.00	-10.6	n
13C-2,3,7,8-TCDD	110939100	0.79	y	17:45	0.93	100.00	-0.9	n
2,3,7,8-TCDD	10125580	0.80	y	17:47	0.91	10.00	-4.7	n
Total TCDD	10331664	0.90	n	15:09	0.91	10.00	-4.7	n
37Cl-2,3,7,8-TCDD	11292020	1.00	y	17:48	1.02	10.00	-16.3	n
13C-1,2,3,7,8-PeCDF	121004300	1.63	y	22:03	1.01	100.00	-4.8	n
1,2,3,7,8-PeCDF	59484800	1.64	y	22:04	0.98	50.00	-9.0	n
2,3,4,7,8-PeCDF	55112800	1.63	y	23:22	0.91	50.00	-7.1	n
Total F2 PeCDF	115657262	1.17	n	20:43	0.95	100.00	-8.1	n
Total F1 PeCDF	386884	0.38	n	14:07	0.95	100.00	-8.1	n
13C-1,2,3,7,8-PeCDD	63633400	1.74	y	24:03	0.53	100.00	-17.7	n
1,2,3,7,8-PeCDD	32887800	1.61	y	24:05	1.03	50.00	11.8	n
Total PeCDD	33086968	1.32	y	23:22	1.03	50.00	11.8	n
13C-1,2,3,7,8,9-HxCDD	67197200	1.26	y	32:04	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	77079700	0.50	y	30:14	1.15	100.00	16.3	n
1,2,3,4,7,8-HxCDF	48457300	1.26	y	30:15	1.26	50.00	9.0	n
1,2,3,6,7,8-HxCDF	49741900	1.28	y	30:28	1.29	50.00	3.8	n
2,3,4,6,7,8-HxCDF	47490100	1.26	y	31:23	1.23	50.00	1.2	n
1,2,3,7,8,9-HxCDF	46249700	1.31	y	32:18	1.20	50.00	1.3	n
Total HxCDF	191939000	1.26	y	30:15	1.25	200.00	3.8	n
13C-1,2,3,6,7,8-HxCDD	56156000	1.32	y	31:42	0.84	100.00	8.8	n
1,2,3,4,7,8-HxCDD	29424300	1.33	y	31:36	1.05	50.00	1.9	n
1,2,3,6,7,8-HxCDD	30499800	1.33	y	31:43	1.09	50.00	-1.8	n
1,2,3,7,8,9-HxCDD	34236100	1.29	y	32:05	1.22	50.00	-1.9	n
Total HxCDD	94160200	1.33	y	31:36	1.12	150.00	-0.7	n
13C-1,2,3,4,6,7,8-HpCDF	62020500	0.43	y	33:54	0.92	100.00	-5.9	n
1,2,3,4,6,7,8-HpCDF	47062300	1.07	y	33:55	1.52	50.00	12.4	n
1,2,3,4,7,8,9-HpCDF	38908200	1.04	y	35:08	1.25	50.00	5.8	n
Total HpCDF	85970500	1.07	y	33:55	1.39	100.00	9.3	n
13C-1,2,3,4,6,7,8-HpCDD	53756900	1.07	y	34:48	0.80	100.00	-0.7	n
1,2,3,4,6,7,8-HpCDD	28292600	1.05	y	34:49	1.05	50.00	2.6	n
Total HpCDD	28292600	1.05	y	34:49	1.05	50.00	2.6	n
13C-OCDD	65818300	0.93	y	37:26	0.49	200.00	-20.4	n
OCDF	55761900	0.91	y	37:34	1.69	100.00	17.3	n
OCDD	41299300	0.88	y	37:27	1.25	100.00	15.1	n

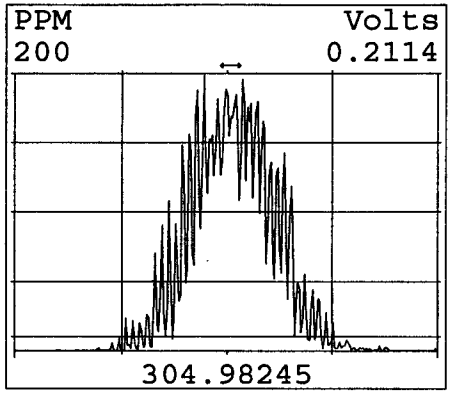
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16AU10B1D5	1	CP0816	DB-5 CPSM 3732-07				1.00000	
16AU10B1D5	2	ST0816	CS3 10DXN336				1.00000	
16AU10B1D5	3	L5EN7-1-AA	G0H110000-209B (469)	20	8290/SOLID	92	10.00000	g
16AU10B1D5	4	L43HV-1-AF	F0H040461-18	20	8290/SOLID	89	10.10500	g
16AU10B1D5	5	L43HX-1-AF	F0H040461-19	20	8290/SOLID		10.23500	g
16AU10B1D5	6	L43H9-1-AA	G0H040469-1	20	8290/SOLID	92	10.02000	g
16AU10B1D5	7	L43JN-1-AA	G0H040469-2	20	8290/SOLID		10.15000	g
16AU10B1D5	8	L43G4-1-AF	F0H040461-4 (10X)	20	8290/SOLID	89	10.05500	g
16AU10B1D5	9	L5EN7-1-AC	G0H110000-209C (469)	20	8290/SOLID	92	10.00000	g
16AU10B1D5	10	ST0816A	CS3 10DXN336				1.00000	
16AU10B1D5	11	CP0816A	DB-5 CPSM 3732-07				1.00000	
16AU10B1D5	12	SB0816	Solvent Blank C-14				1.00000	
16AU10B1D5	13	L45KR-1-AF	F0H050443-1	20	8290/SOLID	93	10.31500	g
16AU10B1D5	14	L45KR-1-AP	F0H050443-1S	20	8290/SOLID		10.38500	g
16AU10B1D5	15	L45KR-1-AQ	F0H050443-1D	20	8290/SOLID		10.17500	g
16AU10B1D5	16	L45LE-1-AF	F0H050443-3	20	8290/SOLID		10.06500	g
16AU10B1D5	17	L45LF-1-AF	F0H050443-4	20	8290/SOLID		10.18500	g
16AU10B1D5	18	L45LH-1-AF	F0H050443-5	20	8290/SOLID		10.03500	g
16AU10B1D5	19	L45LK-1-AF	F0H050443-7	20	8290/SOLID		10.13000	g
16AU10B1D5	20	L45LM-1-AF	F0H050443-8	20	8290/SOLID		10.03000	g
16AU10B1D5	21	L45LN-1-AF	F0H050443-9	20	8290/SOLID		10.27000	g
16AU10B1D5	22	L43JQ-1-AA	G0H040469-3	20	8290/SOLID	92	10.36000	g
\U10B1D5	23	L5CPK-1-AA	G0H040469-4	20	8290/SOLID		10.09000	g
16AU10B1D5	24	ST0816B	CS3 10DXN336				1.00000	
16AU10B1D5	25	ST0816C	CS3 10DXN336				1.00000	
16AU10B1D5	26	CP0816B	DB-5 CPSM 3732-07				1.00000	
16AU10B1D5	27	L5HKJ-1-AA	G0H120000-384B	20	1613B/WATER	83	1.00000	L
16AU10B1D5	28	L5HKJ-1-AC	G0H120000-384C	20	1613B/WATER		1.00000	L
16AU10B1D5	29	L5HKJ-1-AD	G0H120000-384L	20	1613B/WATER		1.00000	L
16AU10B1D5	30	L4KHC-1-AC	G0G220602-1	20	1613B/WATER		0.91152	L
16AU10B1D5	31	L5GQV-1-AC	G0H120000-236C RI	20	1613B/WATER	94	1.00000	L
16AU10B1D5	32	L5GQV-1-AA	G0H120000-236B RI	20	1613B/WATER		1.00000	L
16AU10B1D5	33	L49F6-1-AA	G0H060648-1 RI	20	1613B/WATER		0.95144	L
16AU10B1D5	34	L5DW3-1-AA	G0H100575-1 RI	20	1613B(T)/WATER		1.06447	L
16AU10B1D5	35	L46J0-1-AA	G0H050563-1	20	1613B(T)/SOLID	92	10.26000	g
16AU10B1D5	36	L49E5-1-AA	G0H060642-1 RI	20	1613B(T)/WATER		0.81093	L
16AU10B1D5	37	L5A88-1-AA	G0H090499-1	20	1613B(T)/SOLID	93	10.01000	g
16AU10B1D5	38	L49G2-1-AA	G0H060653-1 RI	20	1613B(T)/WATER	92	0.93008	L
16AU10B1D5	39	ST0816D	CS3 10DXN336				1.00000	
16AU10B1D5	40	ST0816E	CS3 10DXN336				1.00000	
16AU10B1D5	41	CP0816C	DB-5 CPSM 3732-07				1.00000	
16AU10B1D5	42	L5LC4-1-AAB	G0H140454-1MB	20	TO9/AIR	96	0.50000	Sam
16AU10B1D5	43	L5LC4-1-ACC	G0H140454-1LCS	20	TO9/AIR		0.50000	Sam
16AU10B1D5	44	L5LC4-1-ADL	G0H140454-1DCS	20	TO9/AIR		0.50000	Sam
16AU10B1D5	45	L5LAP-1-AA	G0H140454-1	20	TO9/AIR		0.50000	Sam
16AU10B1D5	46	L5LAR-1-AA	G0H140454-2	20	TO9/AIR		0.50000	Sam
16AU10B1D5	47	L5LAV-1-AA	G0H140454-3	20	TO9/AIR		0.50000	Sam
AU10B1D5	48	L5LA1-1-AA	G0H140454-4	20	TO9/AIR		0.50000	Sam
AU10B1D5	49	L44TW-1-AA	G0H040633-7	20	8290/WATER	87	0.96680	L
16AU10B1D5	50	L48DT-1-AA	G0H060532-3	20	8290/SOLID	92	10.17000	g
16AU10B1D5	51	L48JE-1-AA	G0H060556-1	20	8290/SOLID		10.30000	g
16AU10B1D5	52	L48JP-1-AA	G0H060556-2	20	8290/SOLID		10.27000	g
16AU10B1D5	53	L48JW-1-AA	G0H060558-1	20	8290/SOLID		10.19000	g

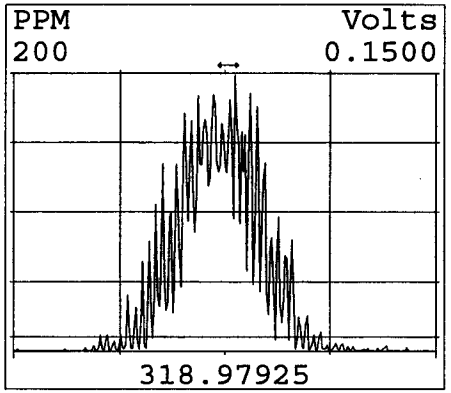
16AU10B1D5 54	SB0816A	Solvent Blank C-14	1.00000
16AU10B1D5 55	ST0816F	CS3 10DXN336	1.00000
16AU10B1D5 56			1.00000
16AU10B1D5 57			1.00000
AU10B1D5 58			1.00000
16AU10B1D5 59		MG,AM 08/16/10	1.00000

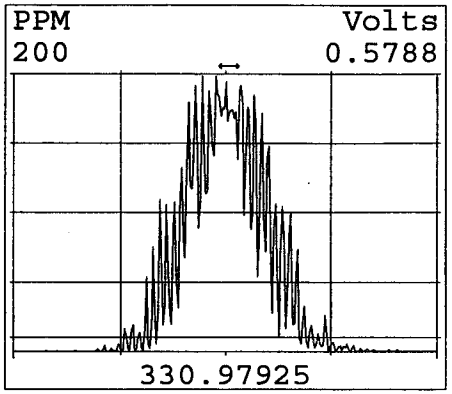
reviewed by ms 8/18/10

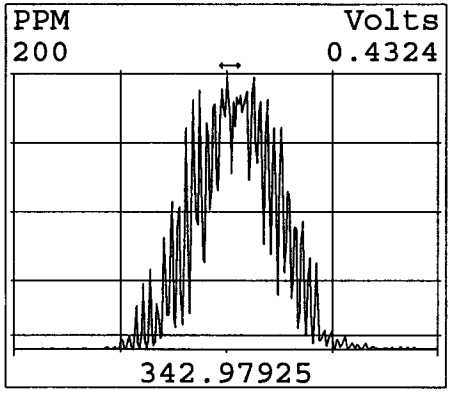
Peak Locate Examination:16-AUG-2010:16:03 File:16AU10B1D5
Experiment:DIOXINRES Function:1 Reference:PFK

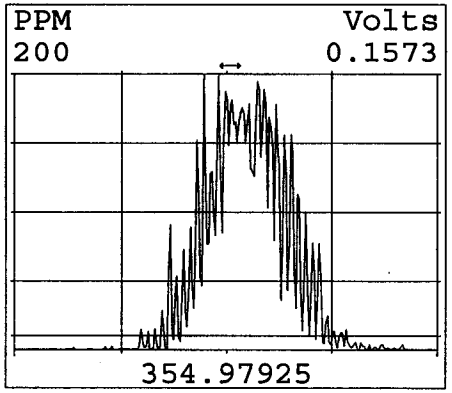


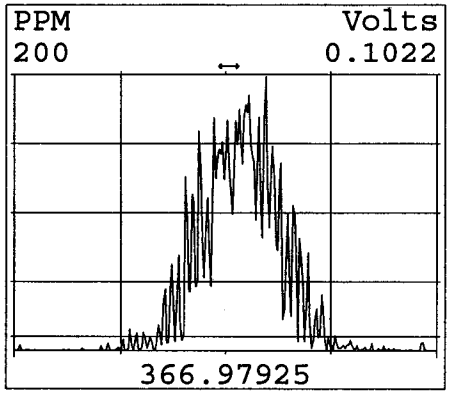


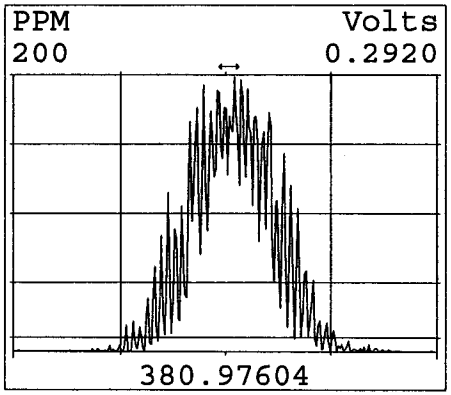


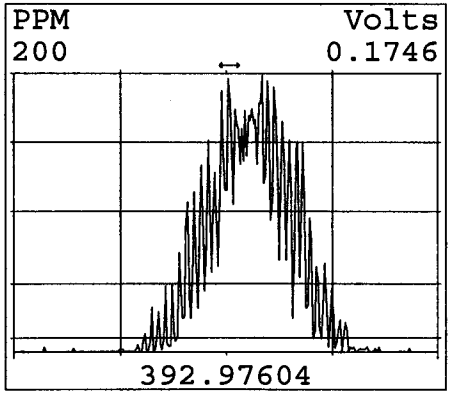


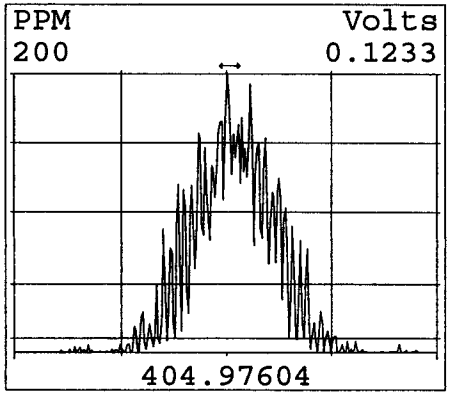


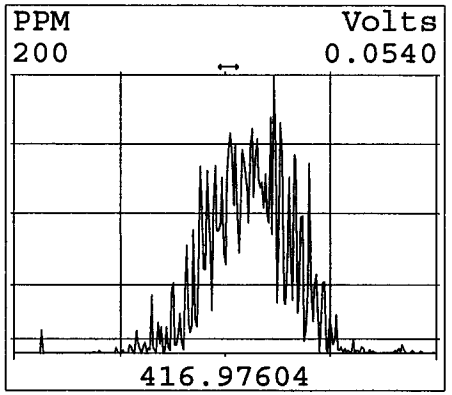




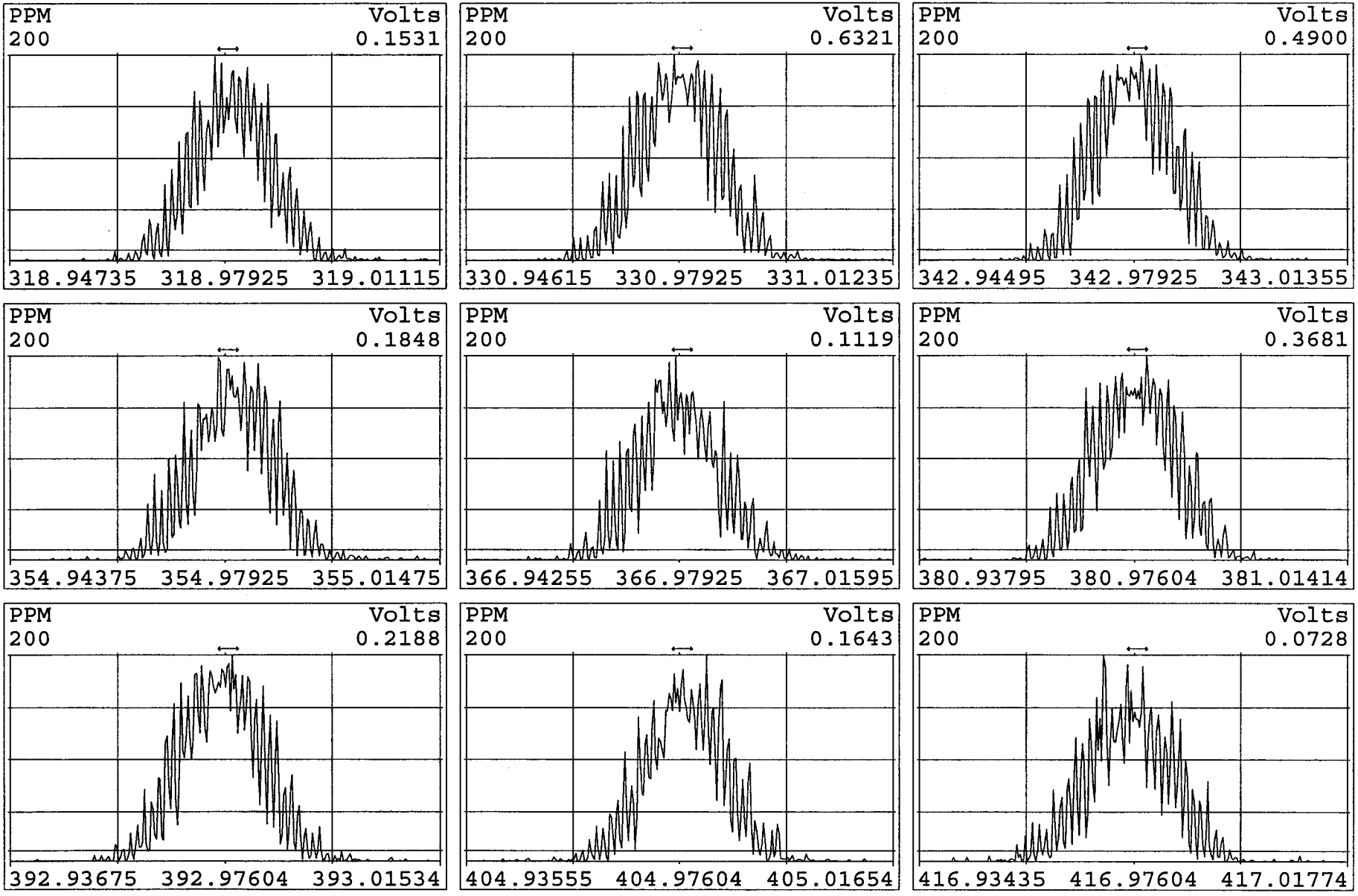




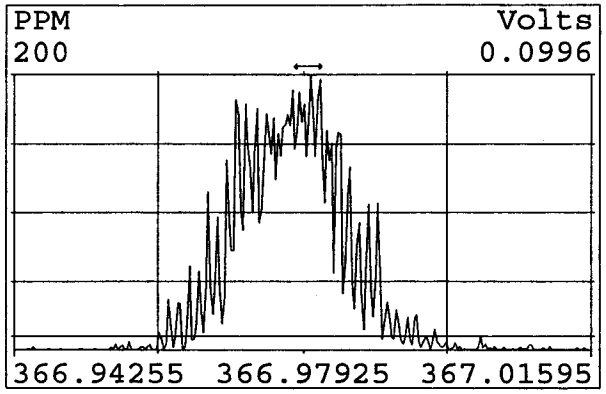


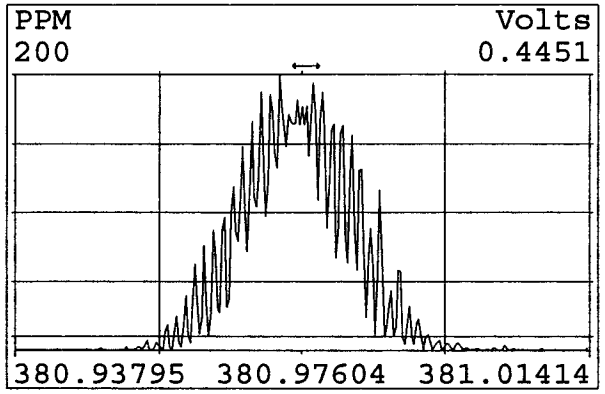


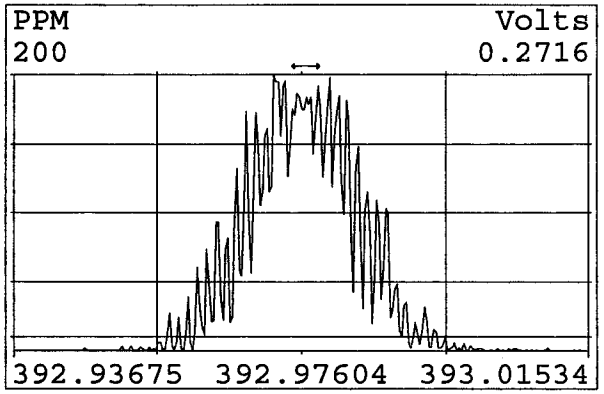
Peak Locate Examination:16-AUG-2010:16:04 File:16AU10B1D5
Experiment:DIOXINRES Function:2 Reference:PFK

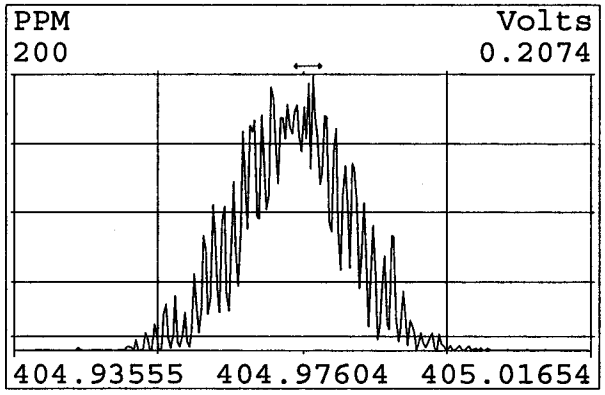


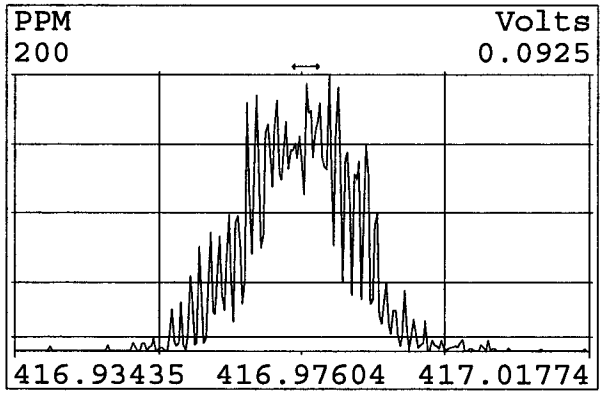
Peak Locate Examination:16-AUG-2010:16:05 File:16AU10B1D5
Experiment:DIOXINRES Function:3 Reference:PFK

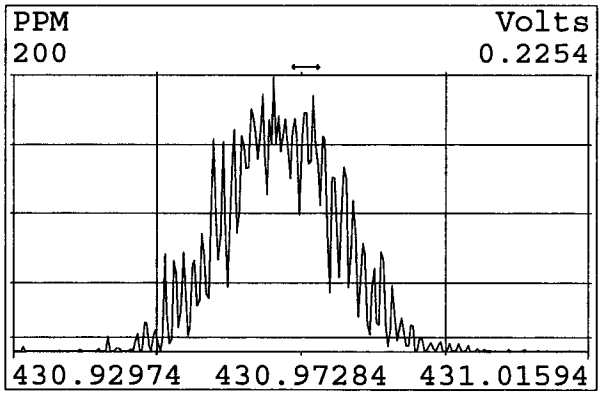


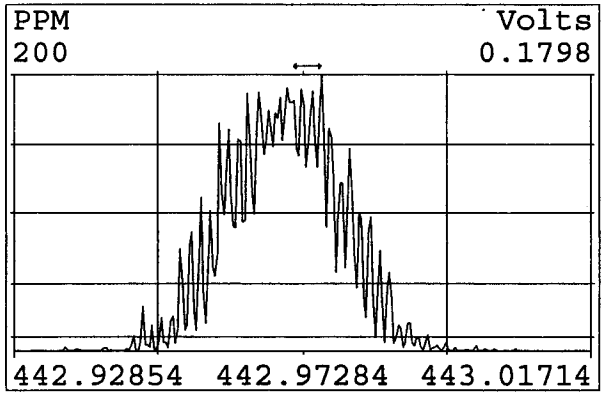


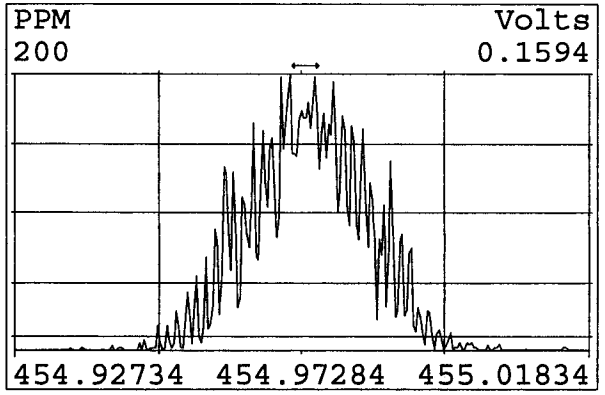




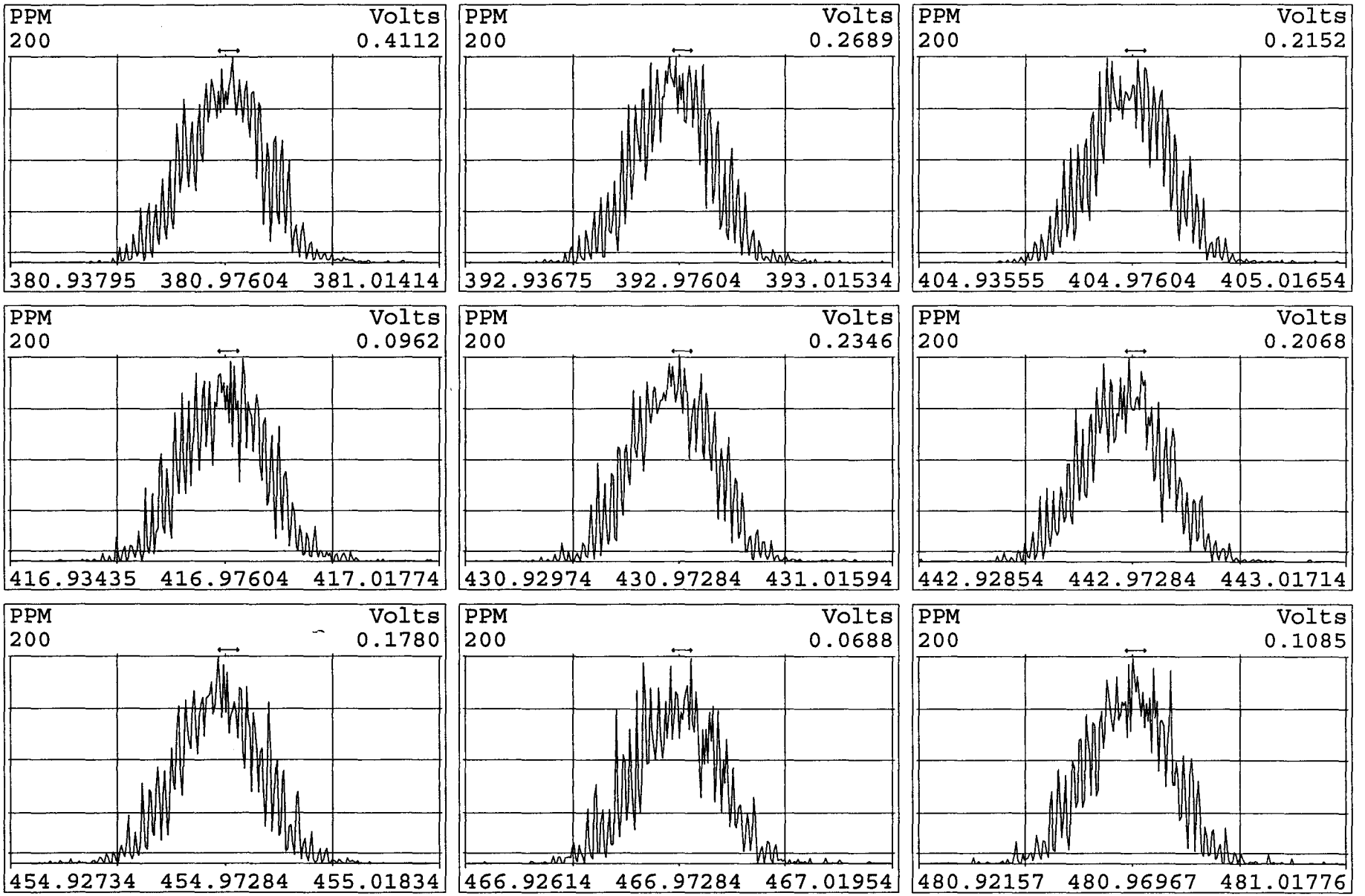




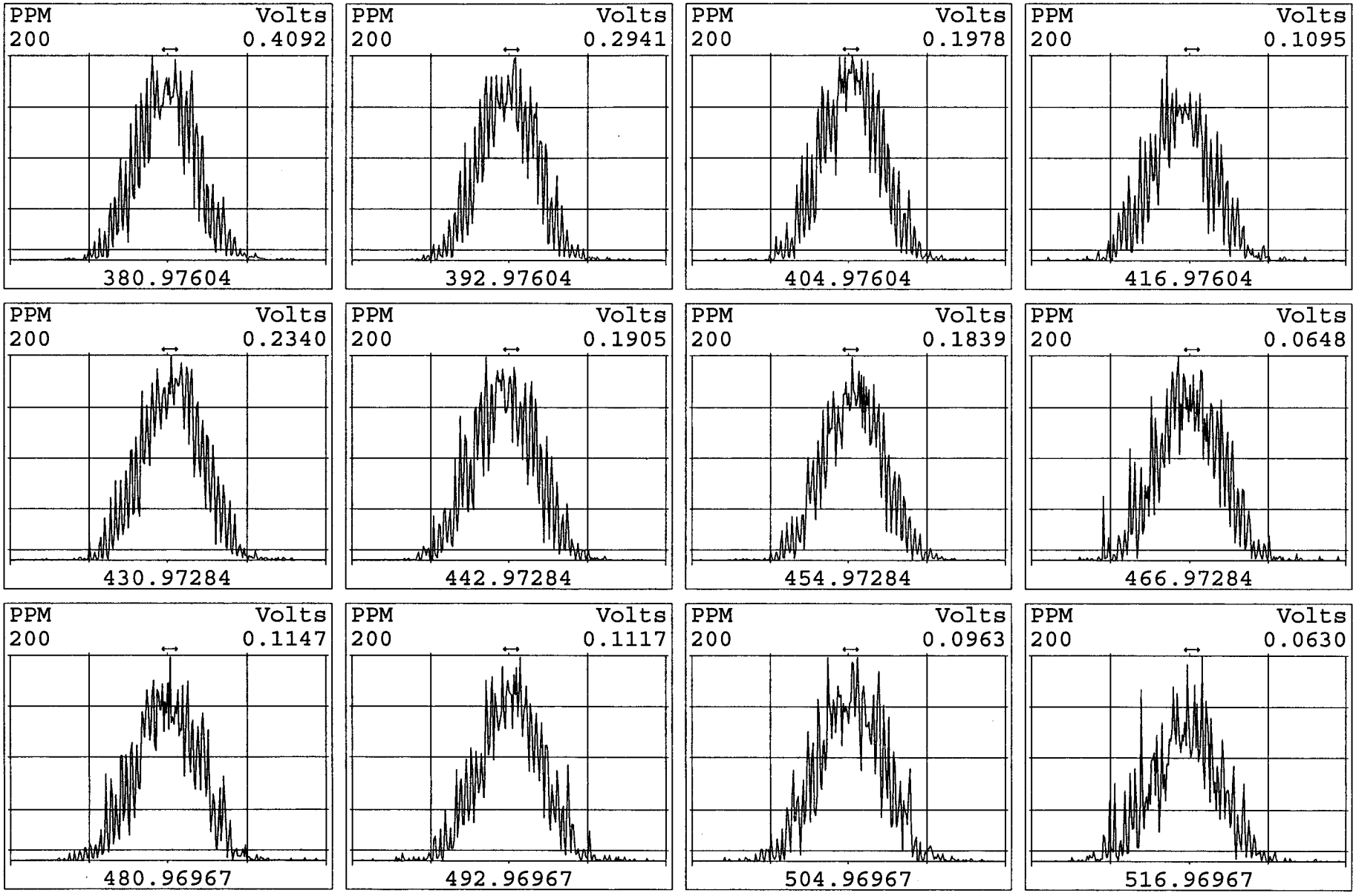




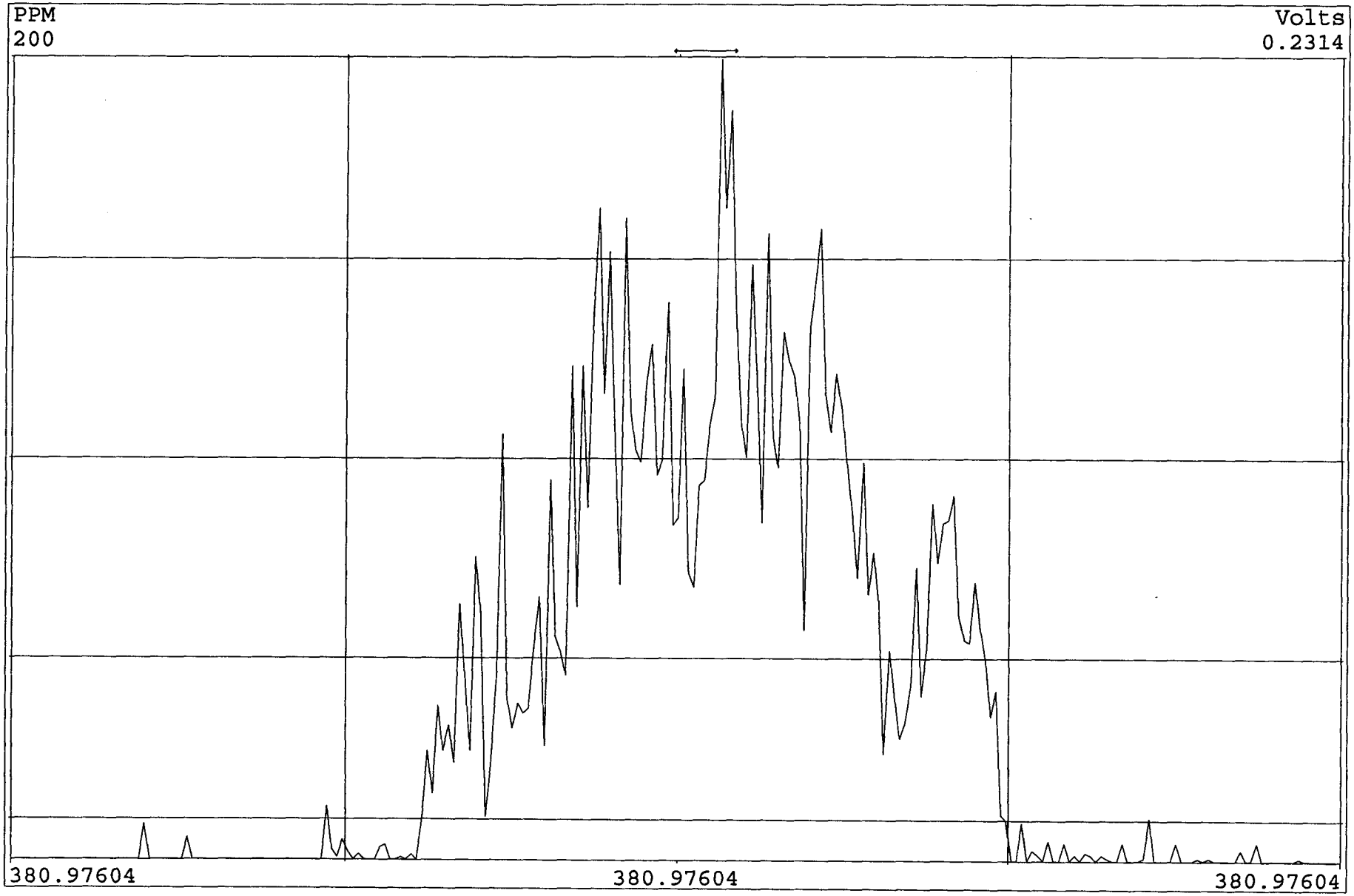
Peak Locate Examination:16-AUG-2010:16:06 File:16AU10B1D5
Experiment:DIOXINRES Function:4 Reference:PFK



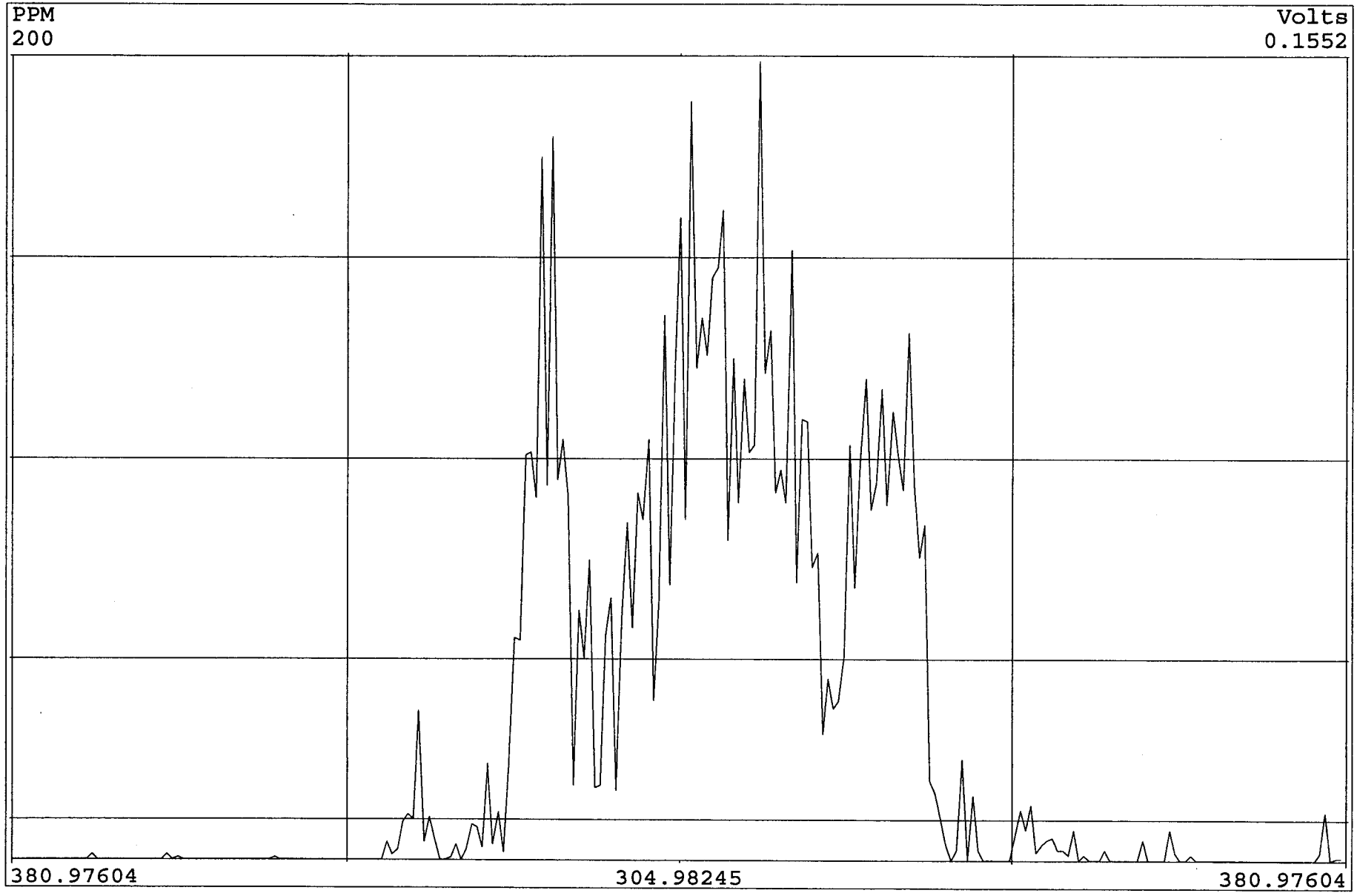
Peak Locate Examination:16-AUG-2010:16:06 File:16AU10B1D5
Experiment:DIOXINRES Function:5 Reference:PFK



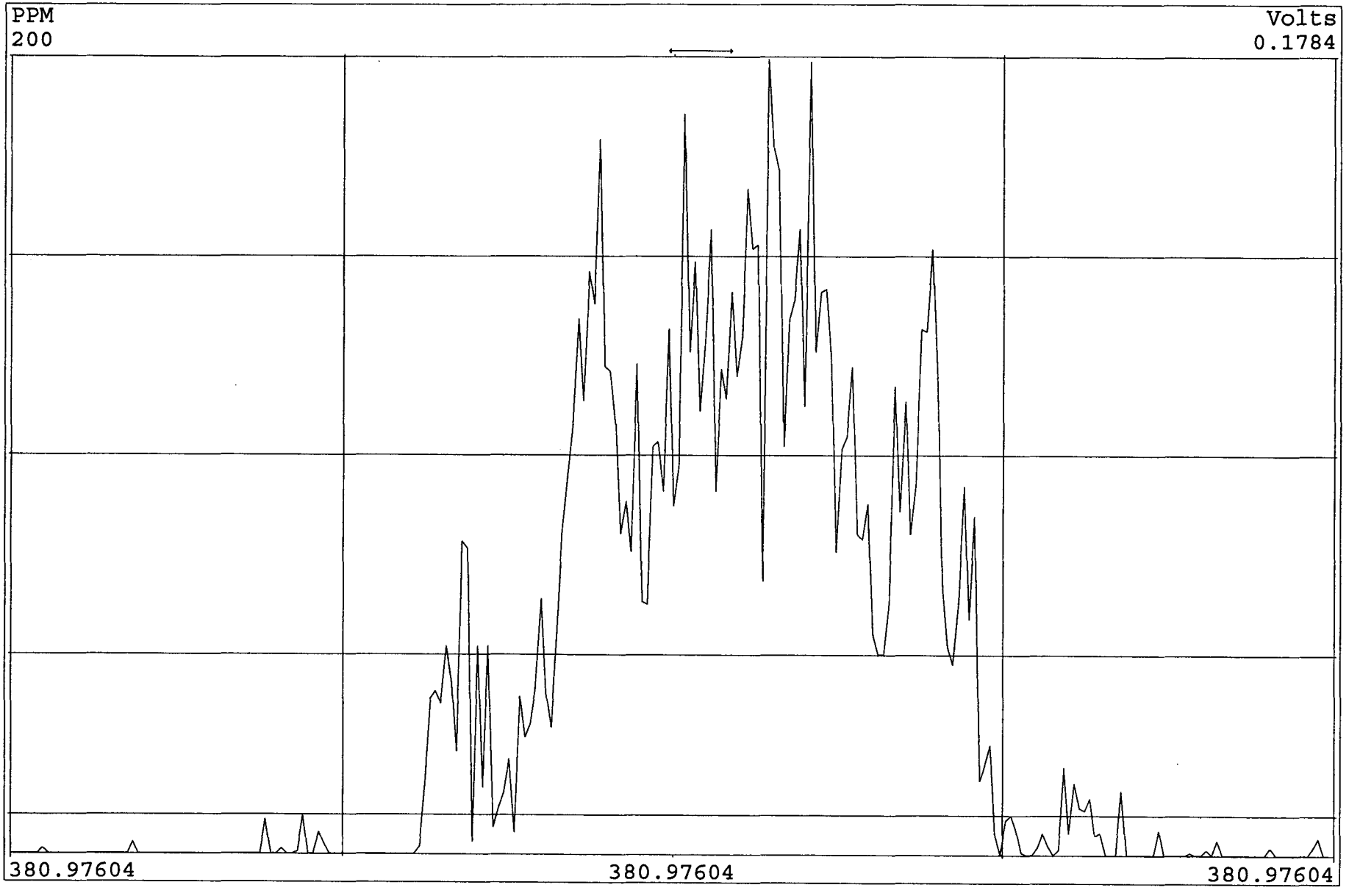
SIRLM Examination:17-AUG-2010:19:56 File:16AU10B1D5
Experiment:DIOXINRES Function:6



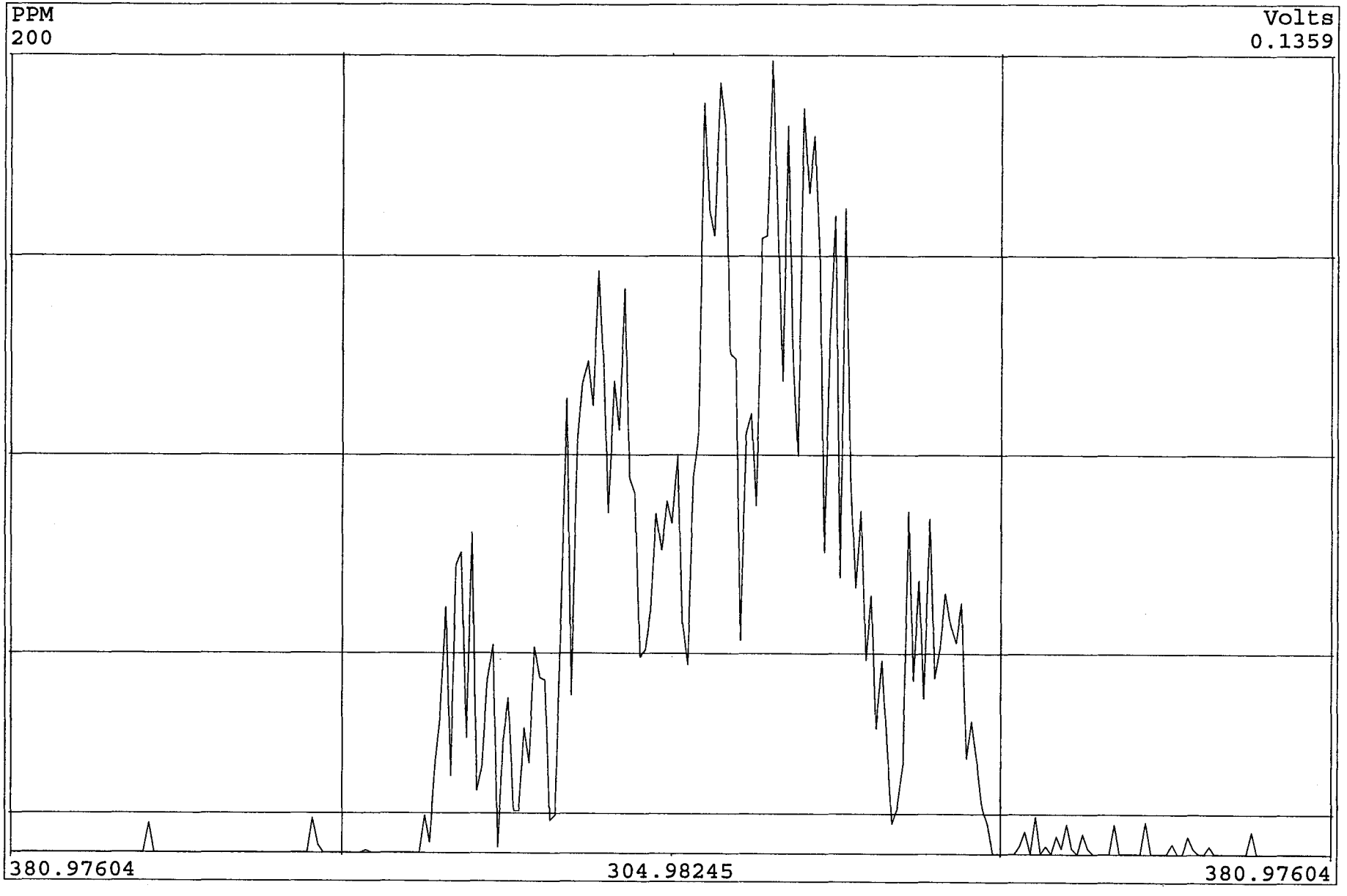
SIRLM Examination:17-AUG-2010:19:57 File:16AU10B1D5
Experiment:DIOXINRES Function:7



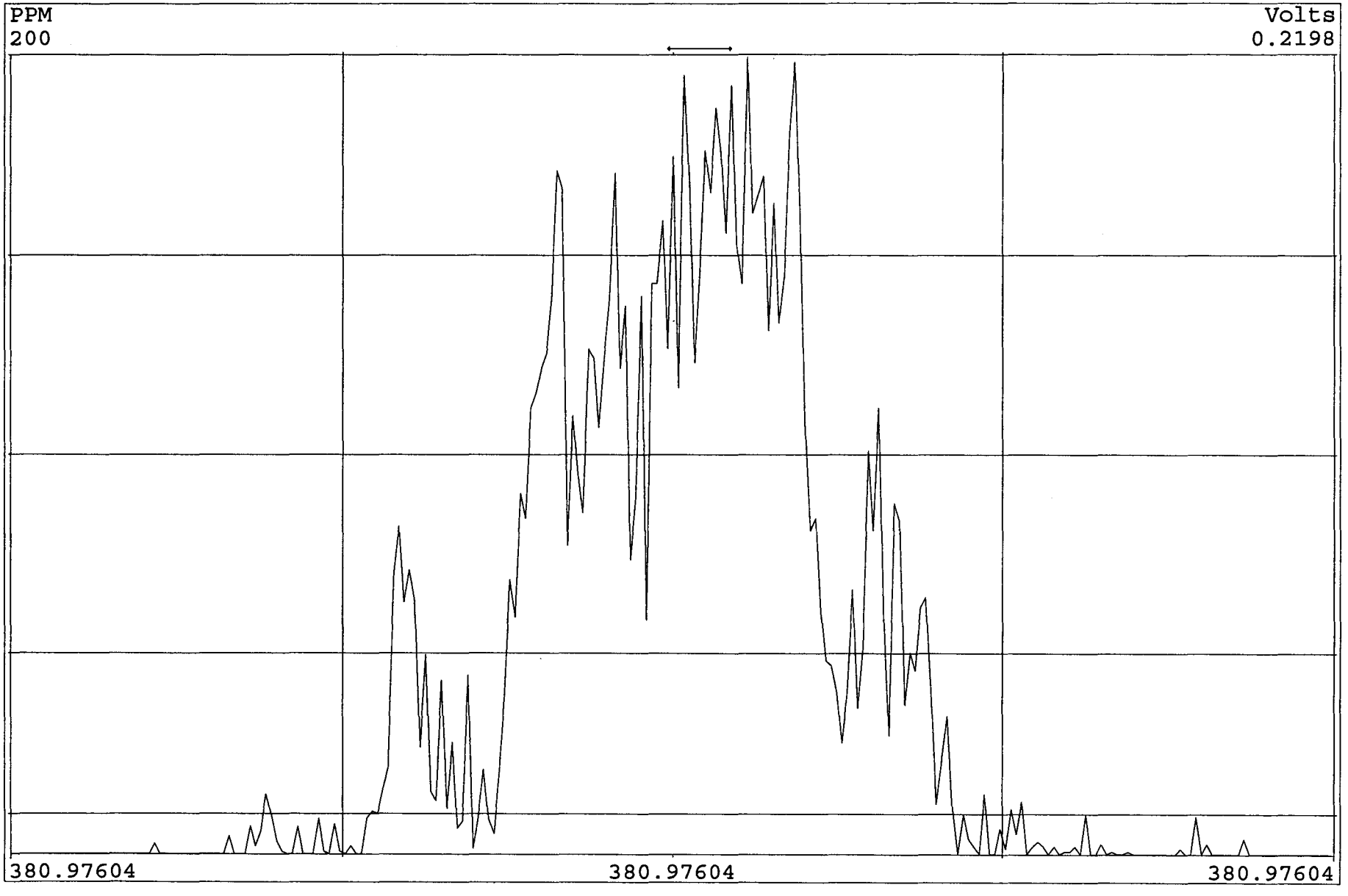
SIRLM Examination:17-AUG-2010:20:40 File:16AU10B1D5
Experiment:DIOXINRES Function:6



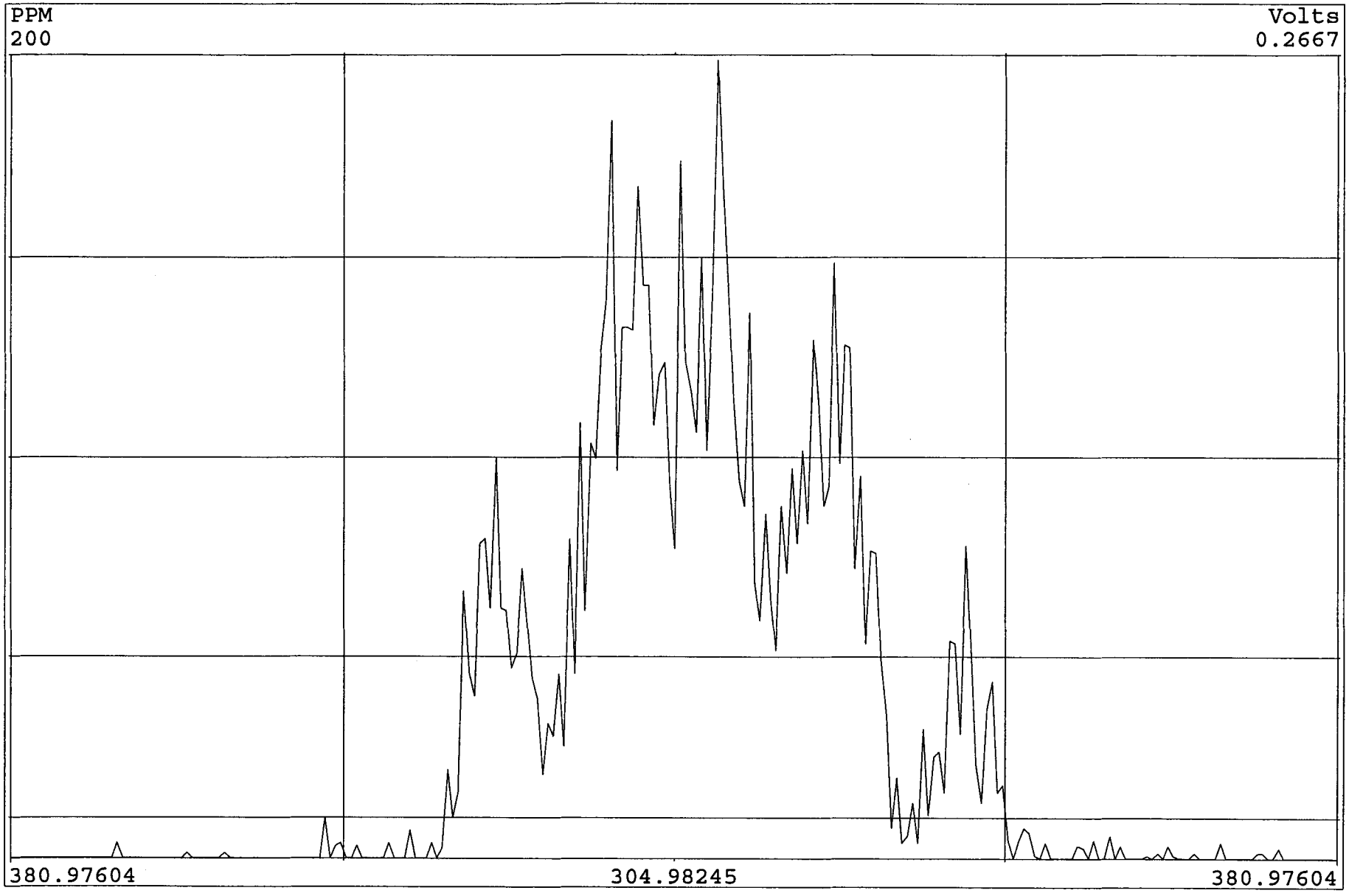
SIRLM Examination:17-AUG-2010:20:41 File:16AU10B1D5
Experiment:DIOXINRES Function:7



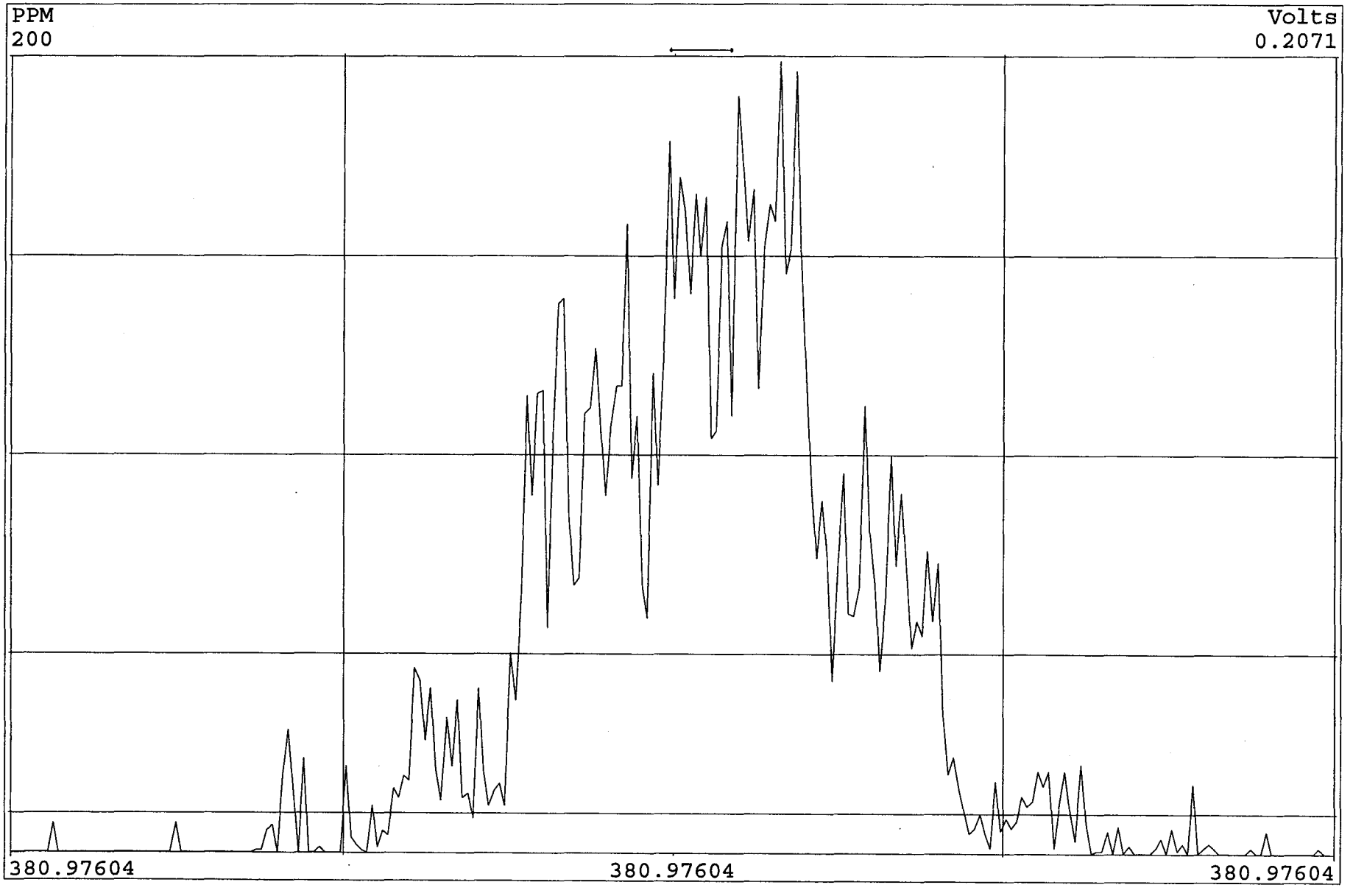
SIRLM Examination:17-AUG-2010:21:27 File:16AU10B1D5
Experiment:DIOXINRES Function:6



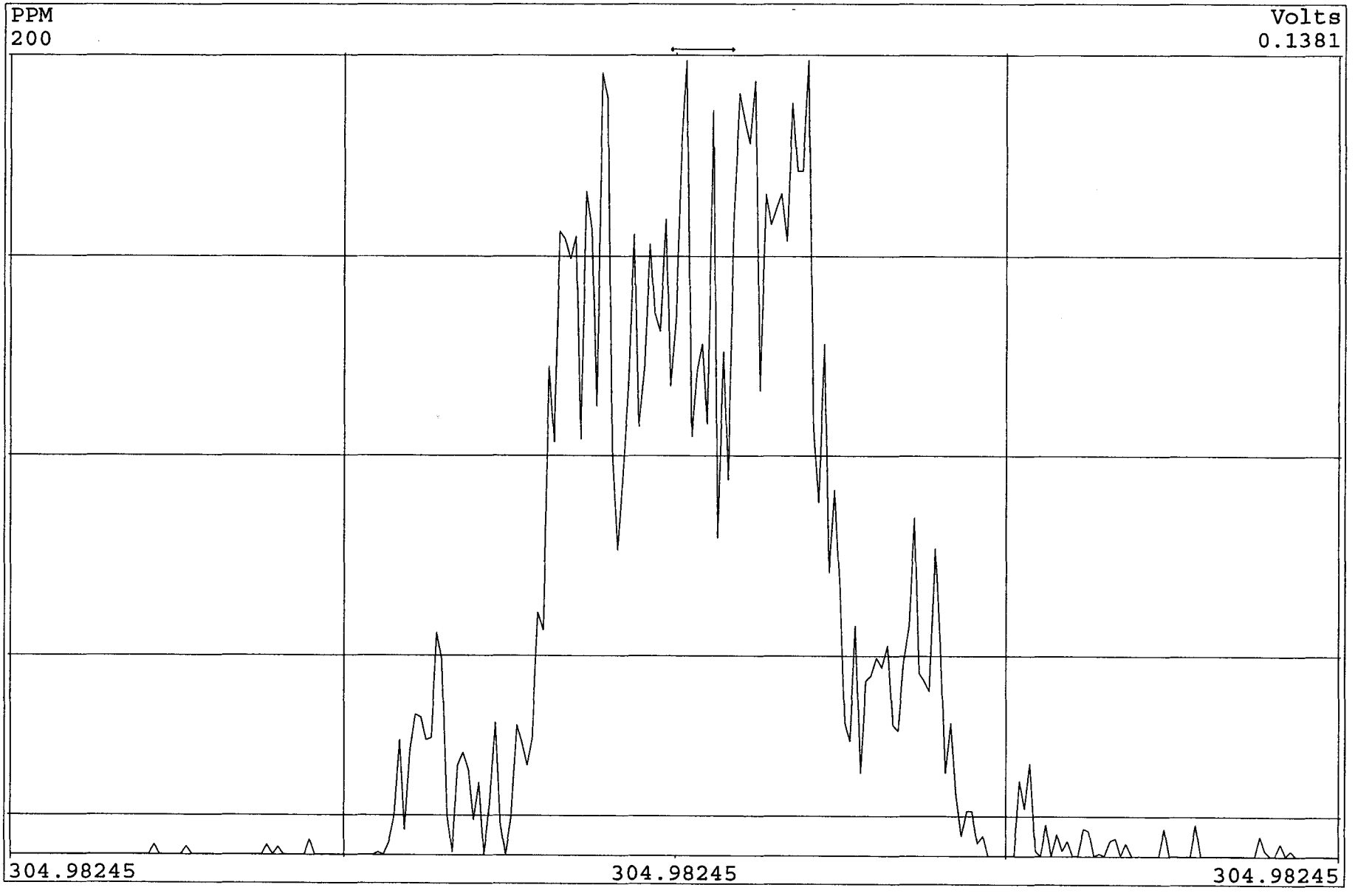
SIRLM Examination:17-AUG-2010:21:27 File:16AU10B1D5
Experiment:DIOXINRES Function:7



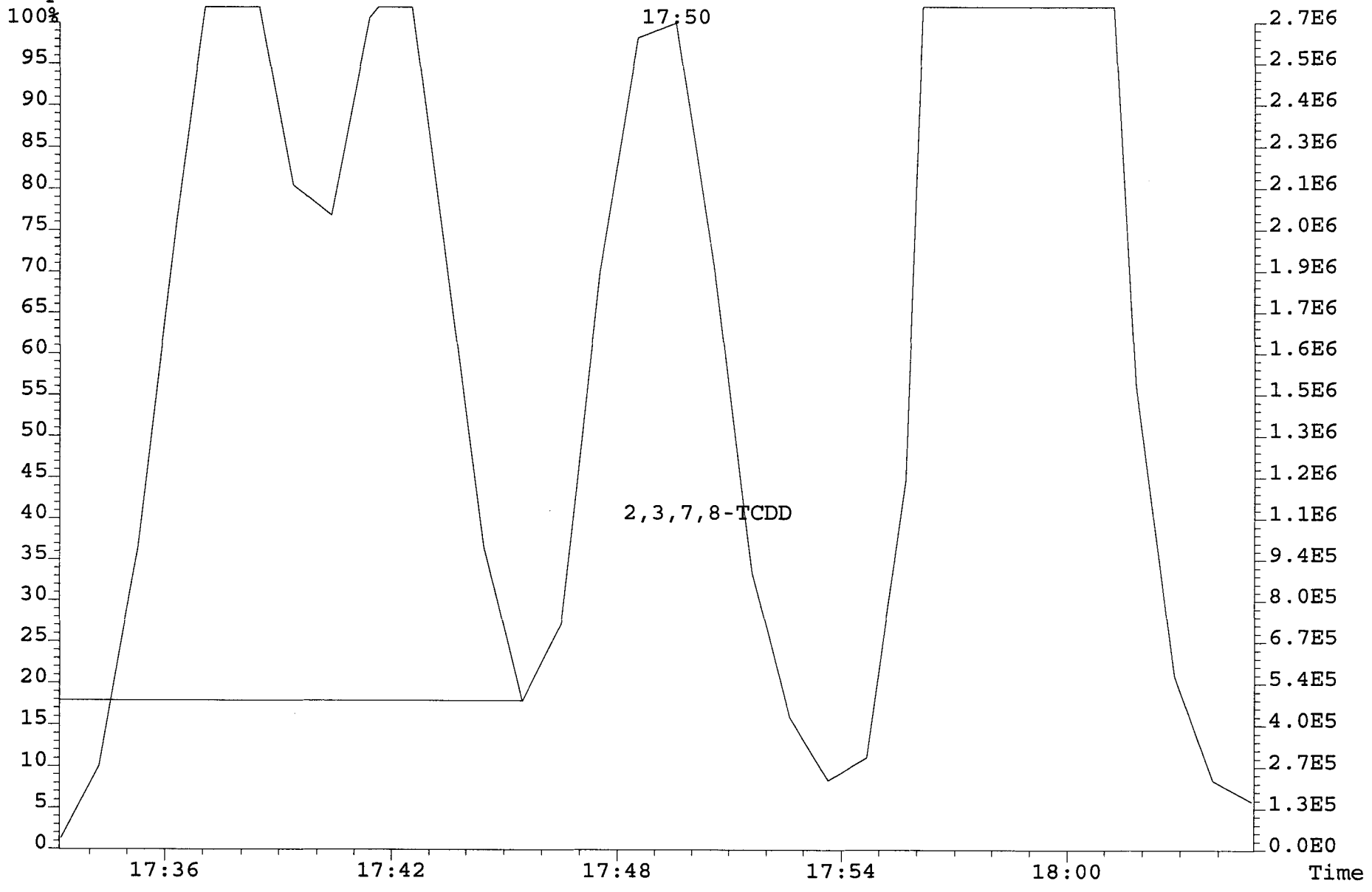
SIRLM Examination:18-AUG-2010:08:26 File:16AU10B1D5
Experiment:DIOXINRES Function:6



SIRLM Examination:18-AUG-2010:08:27 File:16AU10B1D5
Experiment:DIOXINRES Function:7



File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
321.8936 S:41 Exp:DIOXINRES
Sample Text:CP0816C :DB-5 CPSM 3732-07



Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

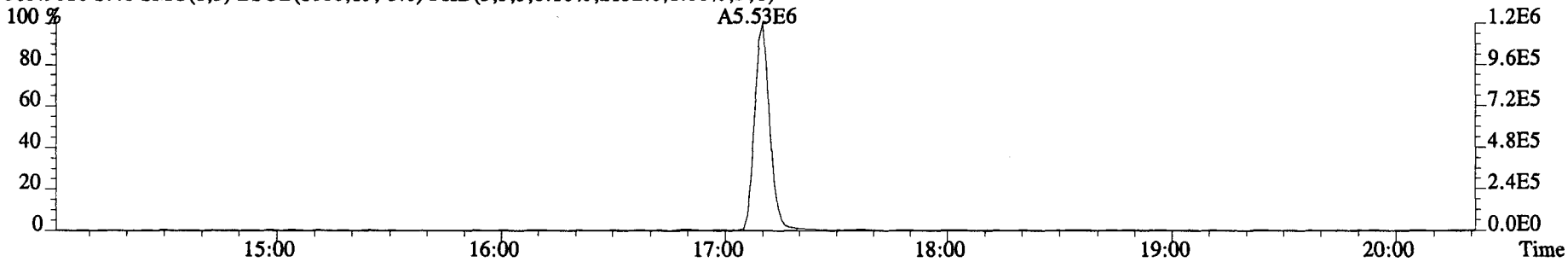
ST0727C :CS1 10DXN342 ST0727A :CS2 10DXN335 ST0727 :CS3 10DXN336
ST0727E :CS4 10DXN337 ST0727D :CS5 10DXN339

Name	Mean	S. D.	%RSD	27JL101D5 S5 RRF1	27JL101D5 S3 RRF2	27JL101D5 S2 RRF3	27JL101D5 S7 RRF4	27JL101D5 S6 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.562	0.047	3.01 %	1.50	1.53	1.58	1.57	1.63
2,3,7,8-TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99
Total TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99
13C-2,3,7,8-TCDD	0.935	0.034	3.61 %	0.95	0.94	0.96	0.88	0.95
2,3,7,8-TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10
Total TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10
37Cl-2,3,7,8-TCDD	1.216	0.130	10.7 %	1.21	1.04	1.14	1.32	1.36
13C-1,2,3,7,8-PeCDF	1.062	0.125	11.8 %	1.17	1.16	1.13	0.94	0.91
1,2,3,7,8-PeCDF	1.080	0.159	14.7 %	0.88	0.96	1.09	1.24	1.23
2,3,4,7,8-PeCDF	0.980	0.172	17.6 %	0.77	0.85	0.98	1.14	1.16
Total F2 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19
Total F1 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19
13C-1,2,3,7,8-PeCDD	0.646	0.051	7.89 %	0.70	0.69	0.66	0.59	0.59
1,2,3,7,8-PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06
Total PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	0.986	0.051	5.22 %	1.02	1.00	1.04	0.97	0.91
1,2,3,4,7,8-HxCDF	1.153	0.147	12.7 %	0.95	1.06	1.20	1.26	1.30
1,2,3,6,7,8-HxCDF	1.243	0.165	13.3 %	0.99	1.17	1.31	1.36	1.39
2,3,4,6,7,8-HxCDF	1.218	0.140	11.5 %	1.02	1.13	1.29	1.29	1.36
1,2,3,7,8,9-HxCDF	1.185	0.124	10.5 %	1.03	1.09	1.25	1.24	1.33
Total HxCDF	1.200	0.143	11.9 %	1.00	1.11	1.26	1.29	1.34
13C-1,2,3,6,7,8-HxCDD	0.768	0.045	5.92 %	0.76	0.80	0.82	0.70	0.76
1,2,3,4,7,8-HxCDD	1.029	0.150	14.6 %	0.86	0.89	1.06	1.23	1.10

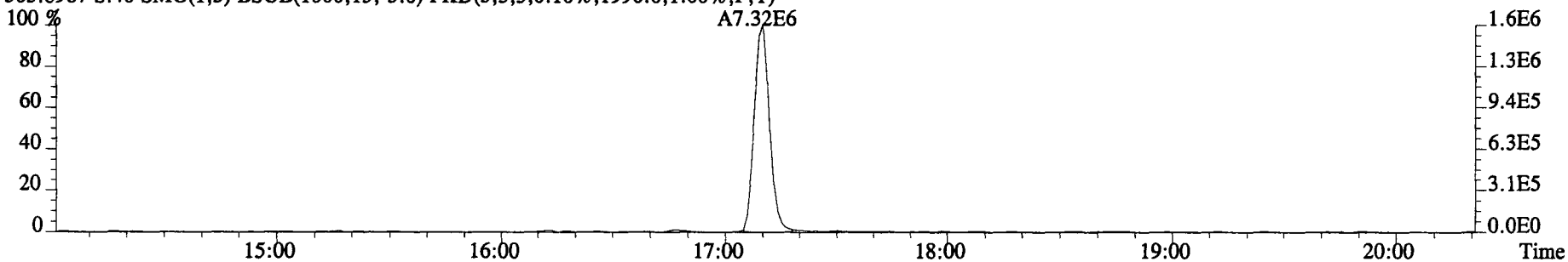
1,2,3,6,7,8-HxCDD	1.107	0.138	12.5 %	0.96	0.97	1.13	1.26	1.21
1,2,3,7,8,9-HxCDD	1.242	0.157	12.6 %	1.07	1.10	1.27	1.45	1.32
Total HxCDD	1.126	0.148	13.1 %	0.96	0.99	1.15	1.31	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.981	0.075	7.67 %	1.02	1.03	1.06	0.92	0.89
1,2,3,4,6,7,8-HpCDF	1.350	0.158	11.7 %	1.11	1.27	1.42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

File:16AU10B1D5 #1-373 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES

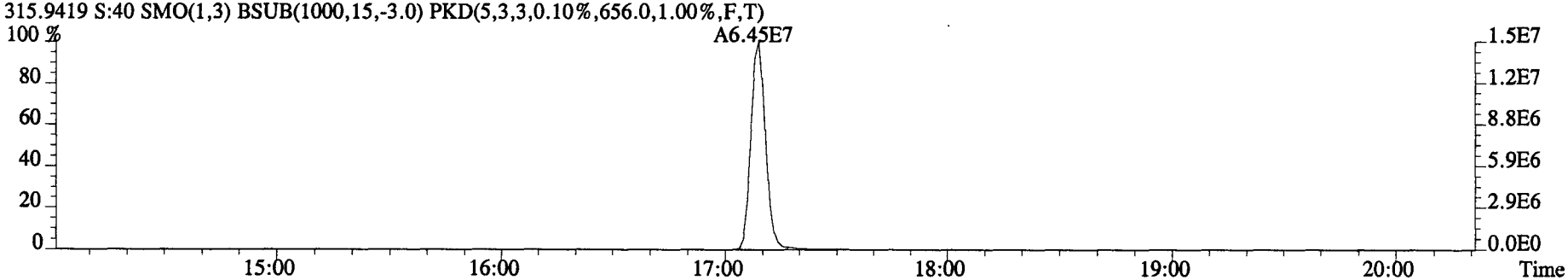
303.9016 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2152.0,1.00%,F,T)



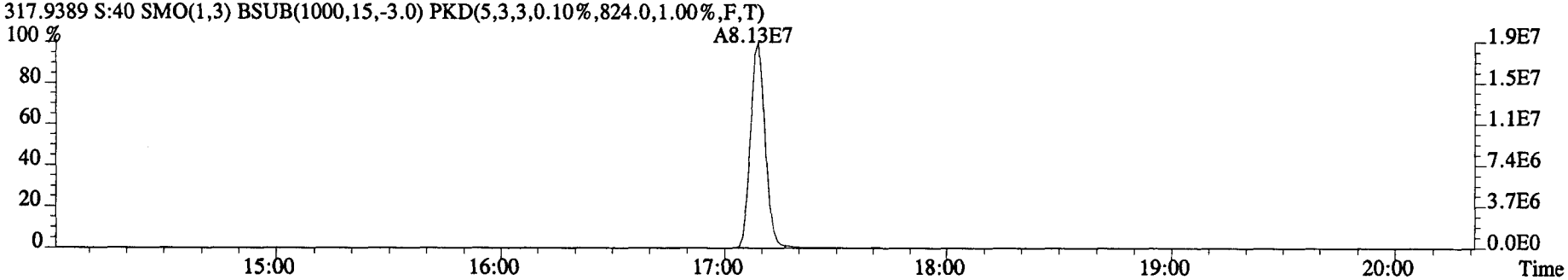
305.8987 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1996.0,1.00%,F,T)



315.9419 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,656.0,1.00%,F,T)

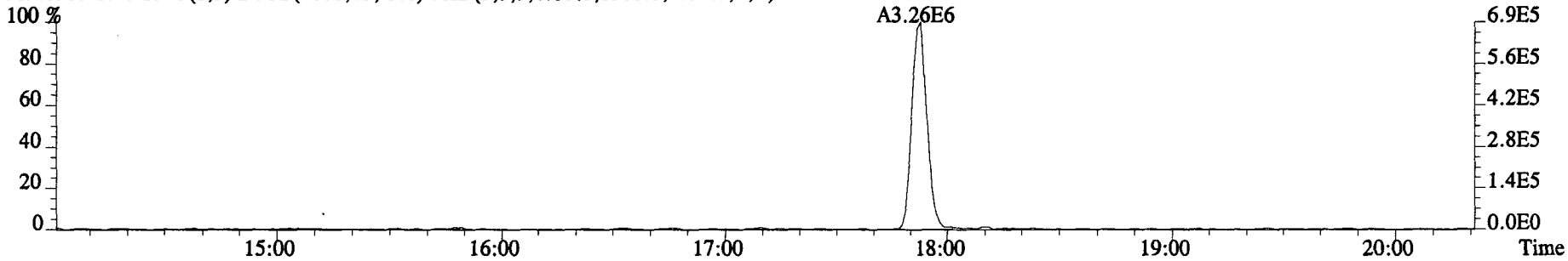


317.9389 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)

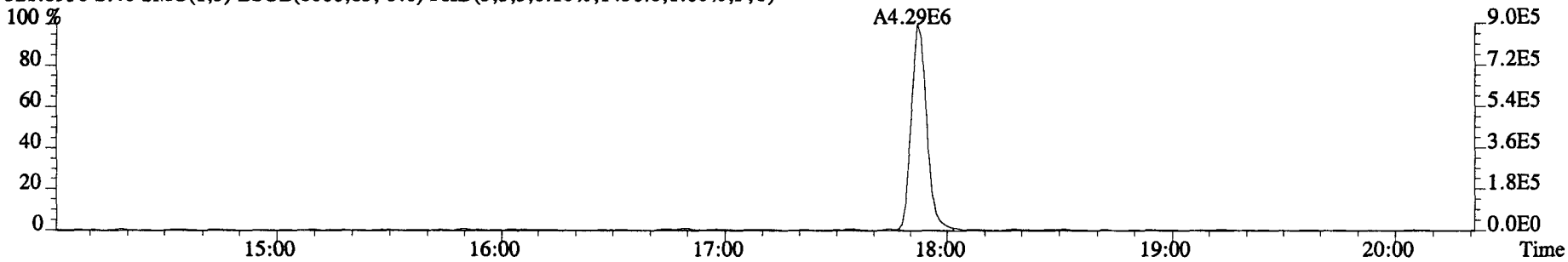


File:16AU10B1D5 #1-373 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES

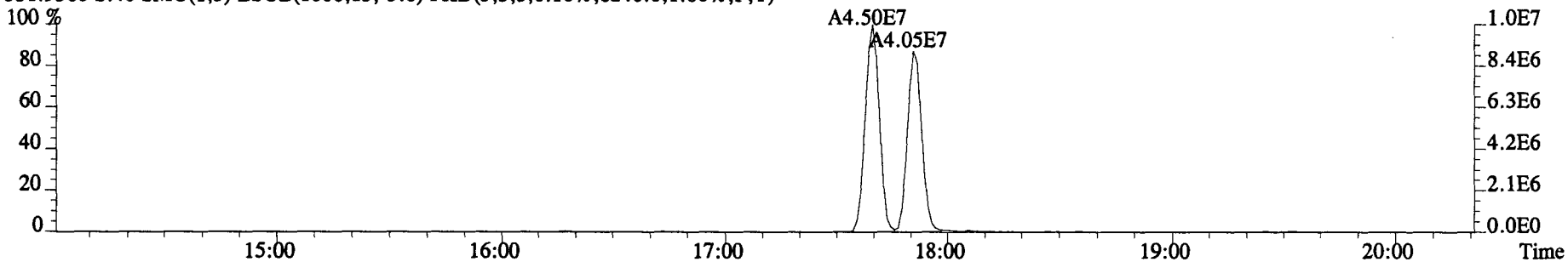
319.8965 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1388.0,1.00%,F,T)



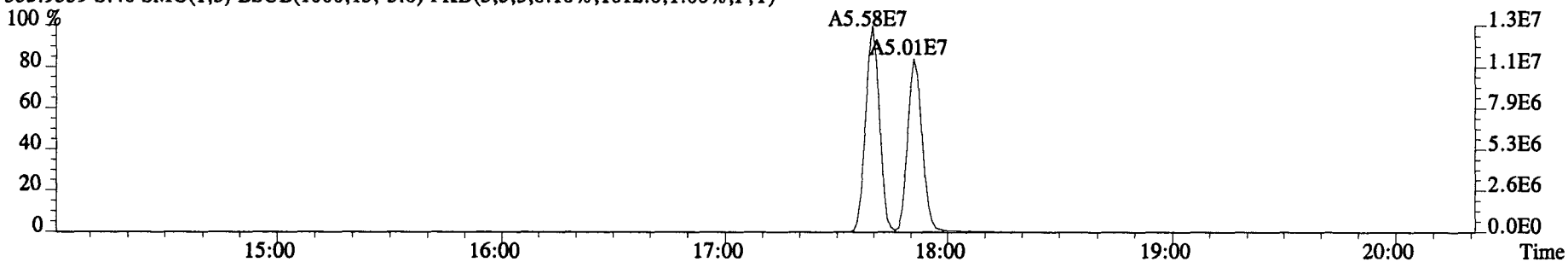
321.8936 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1436.0,1.00%,F,T)



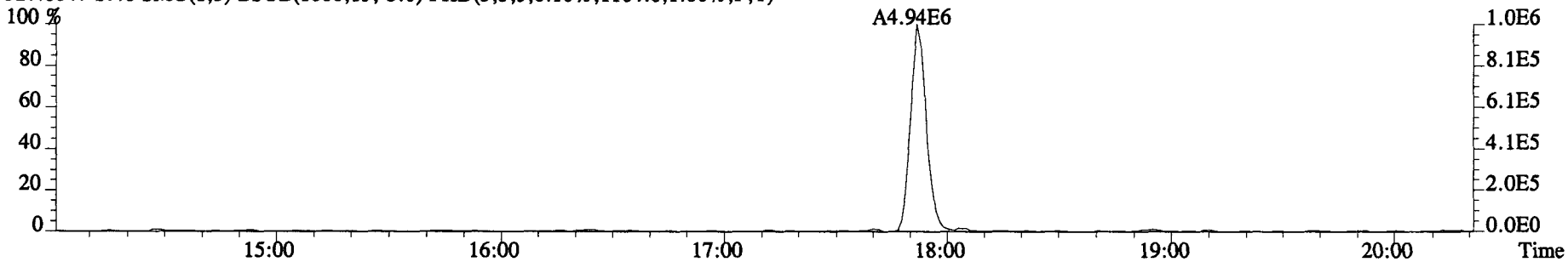
331.9368 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8240.0,1.00%,F,T)



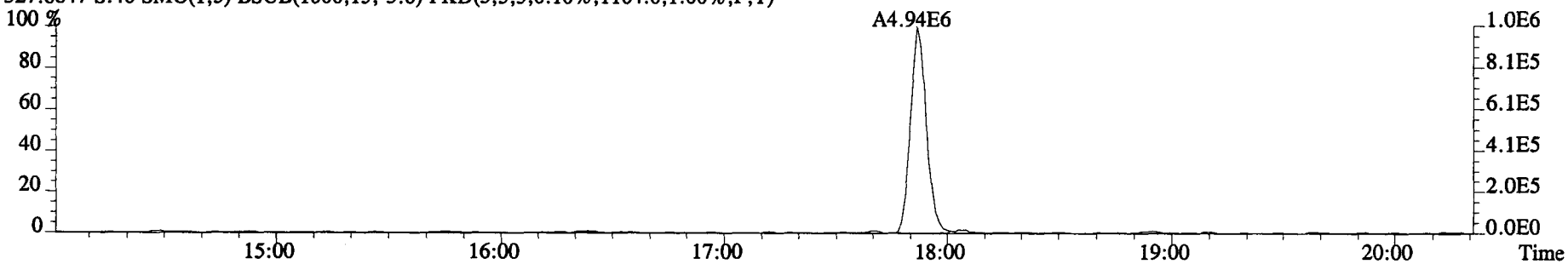
333.9339 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)



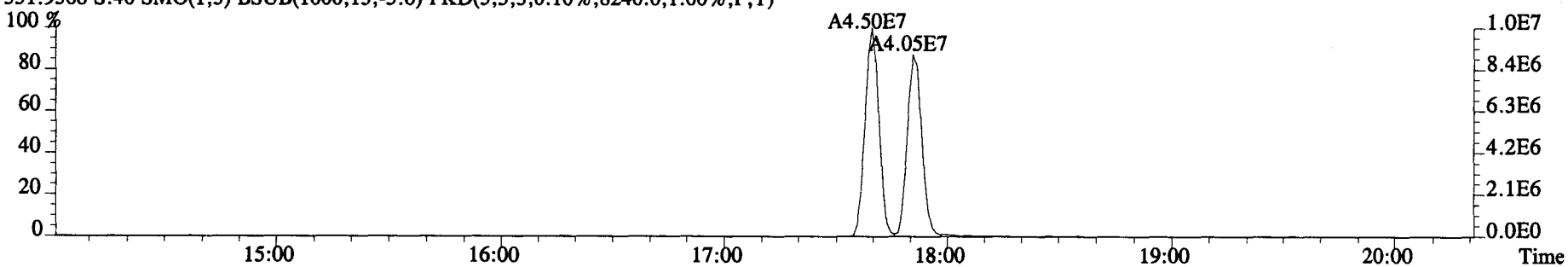
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
327.8847 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



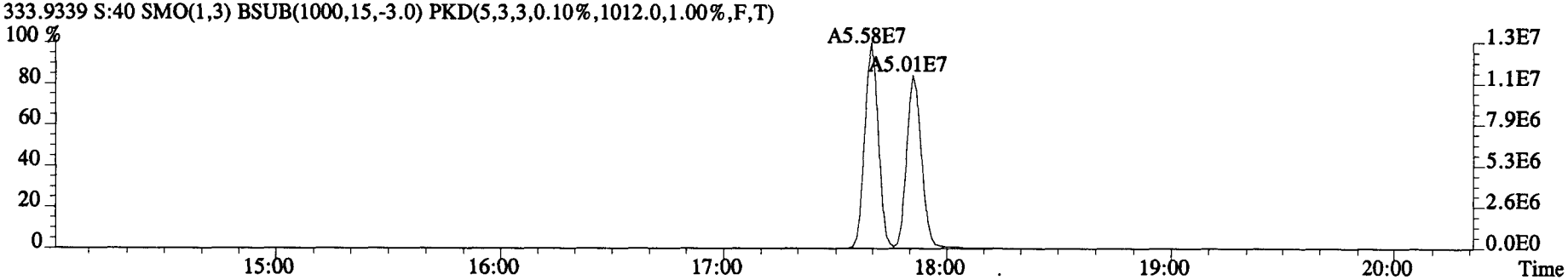
327.8847 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



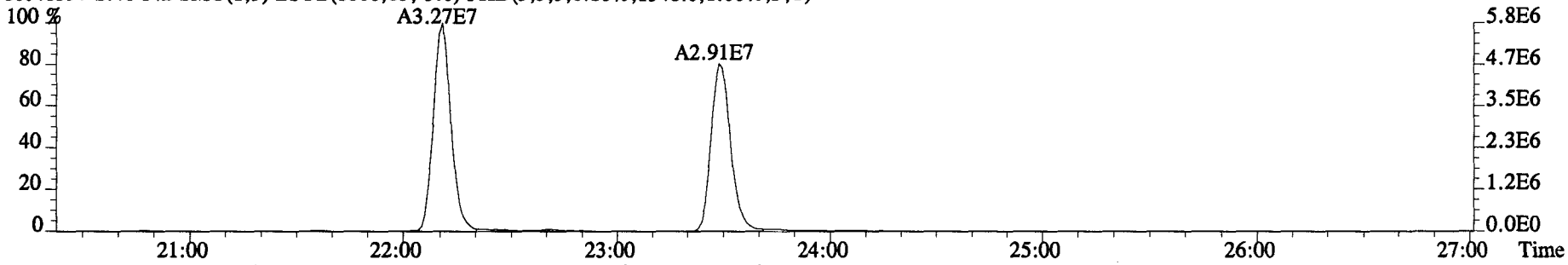
331.9368 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8240.0,1.00%,F,T)



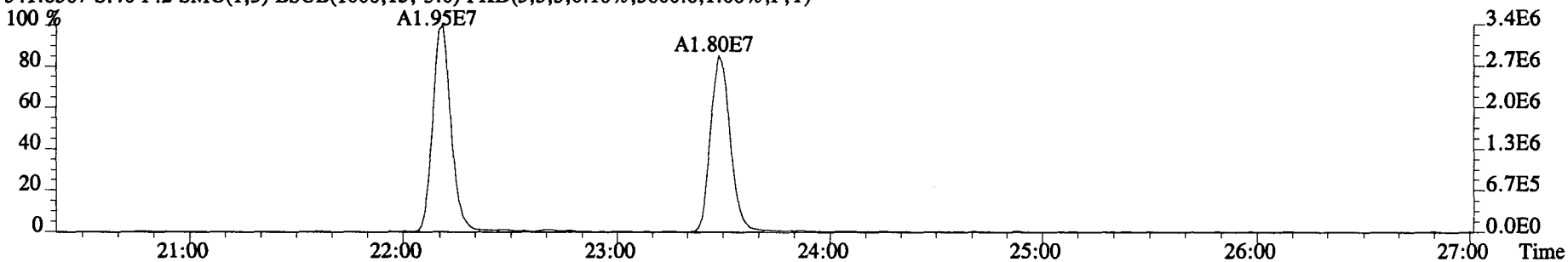
333.9339 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)



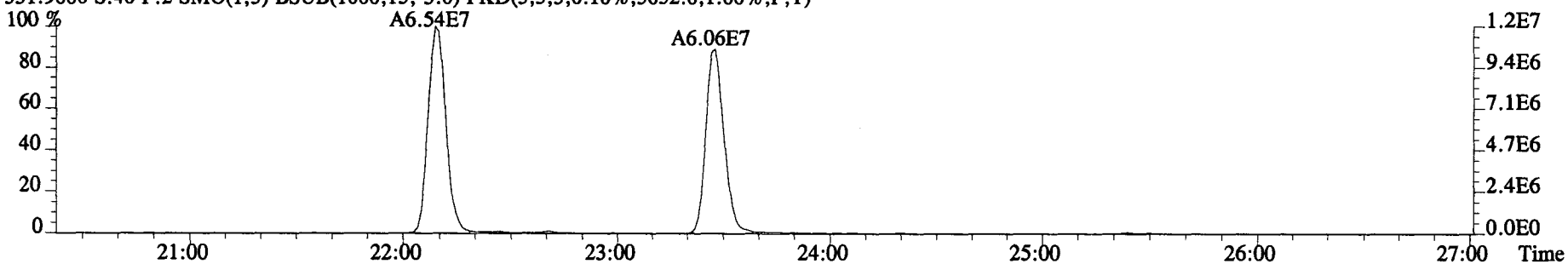
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1548.0,1.00%,F,T)



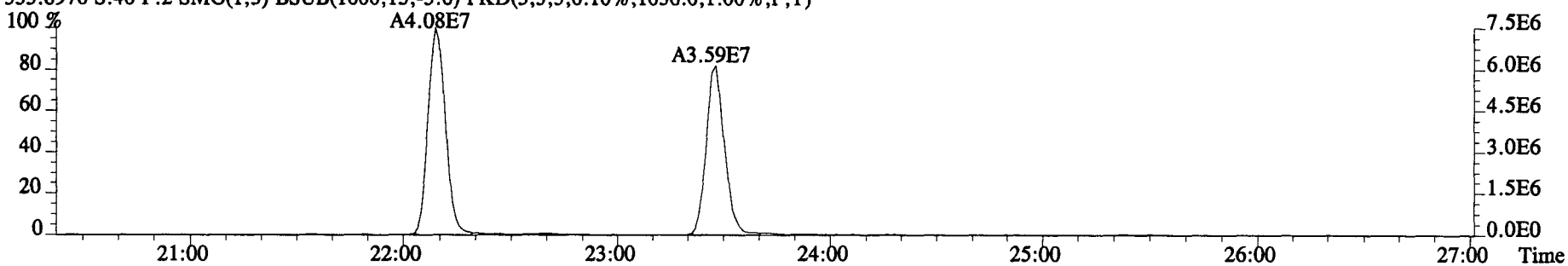
341.8567 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3600.0,1.00%,F,T)



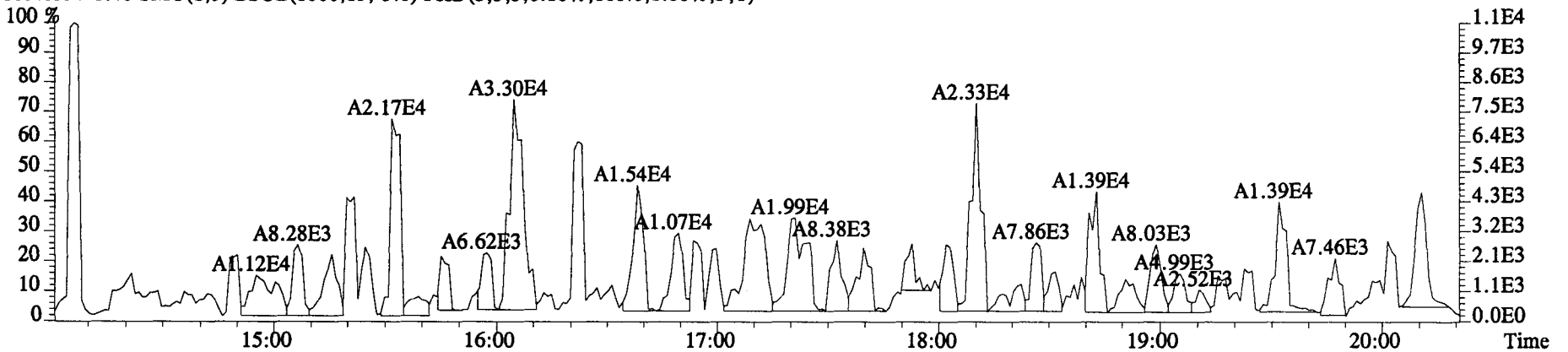
351.9000 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3052.0,1.00%,F,T)



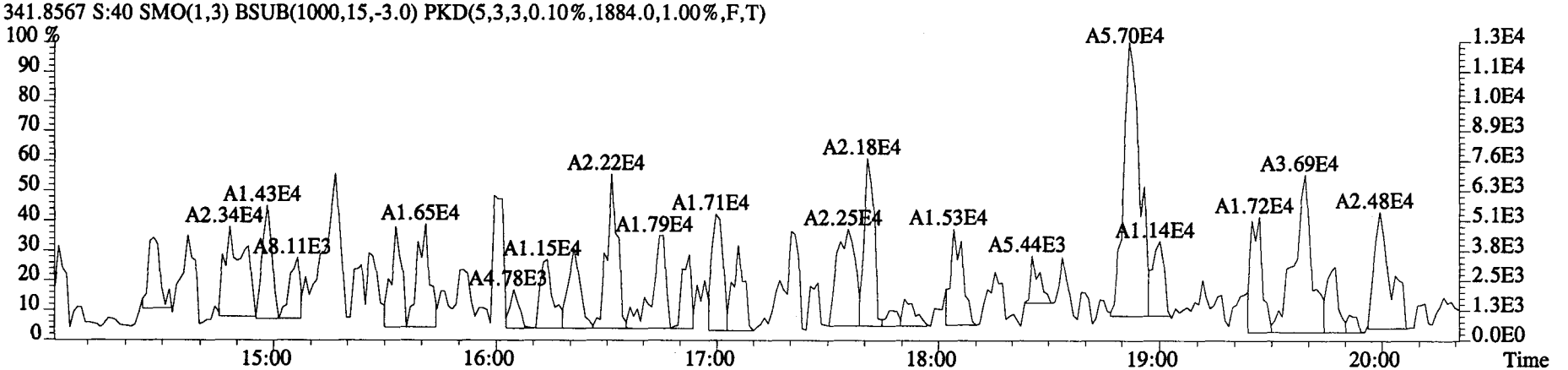
353.8970 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1036.0,1.00%,F,T)



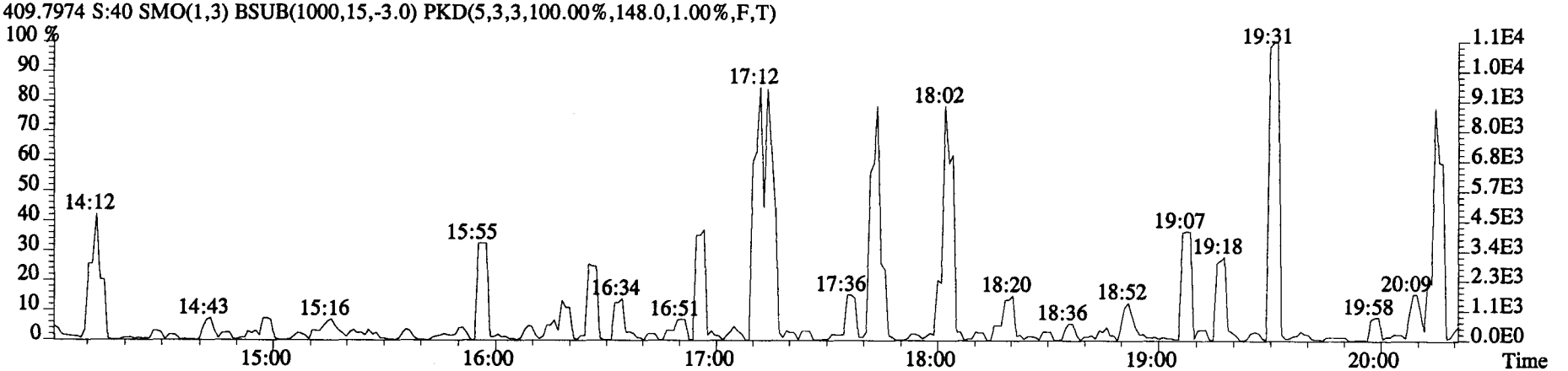
File:16AU10B1D5 #1-373 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868.0,1.00%,F,T)



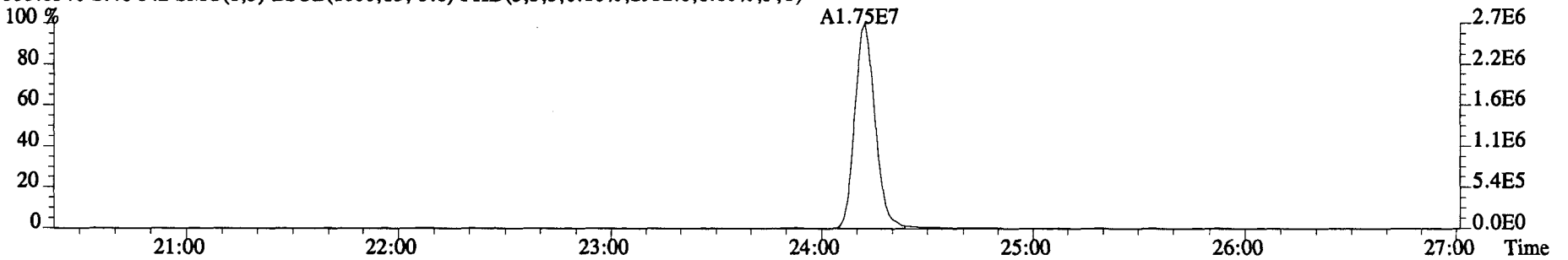
341.8567 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1884.0,1.00%,F,T)



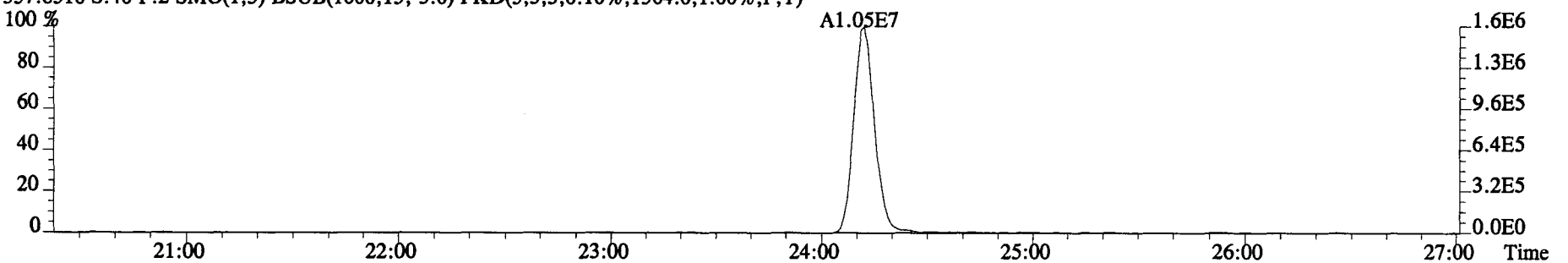
409.7974 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,148.0,1.00%,F,T)



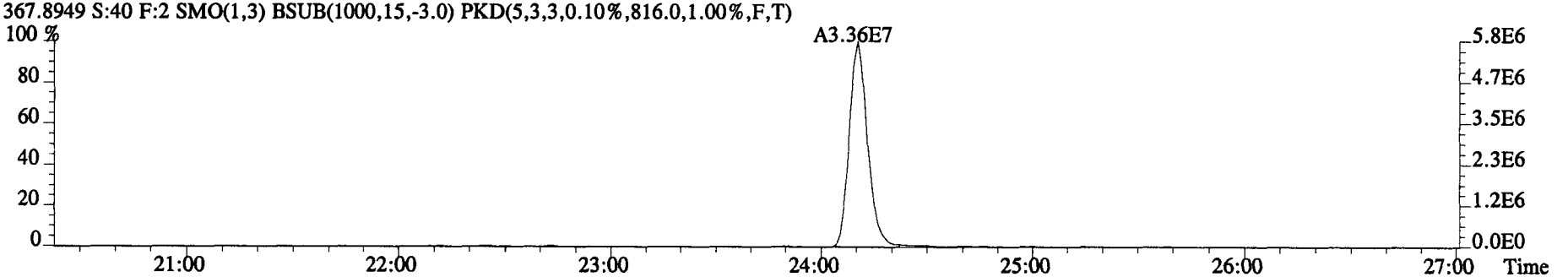
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
355.8546 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)



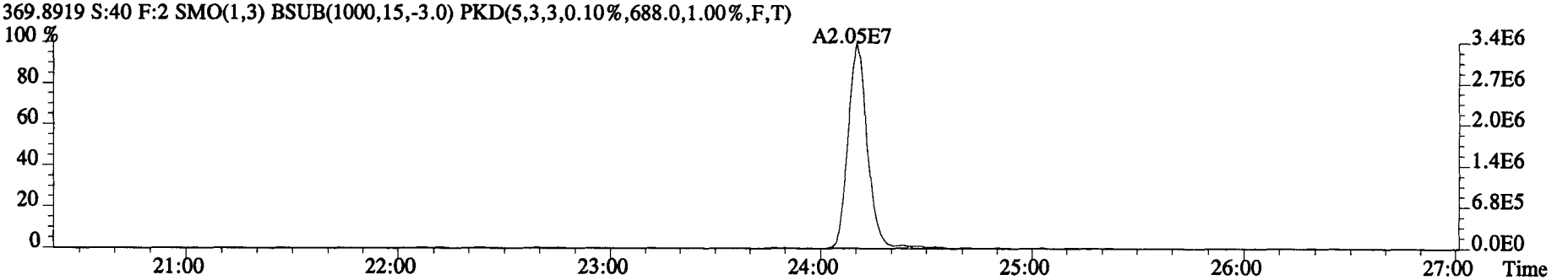
357.8516 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1364.0,1.00%,F,T)



367.8949 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,816.0,1.00%,F,T)

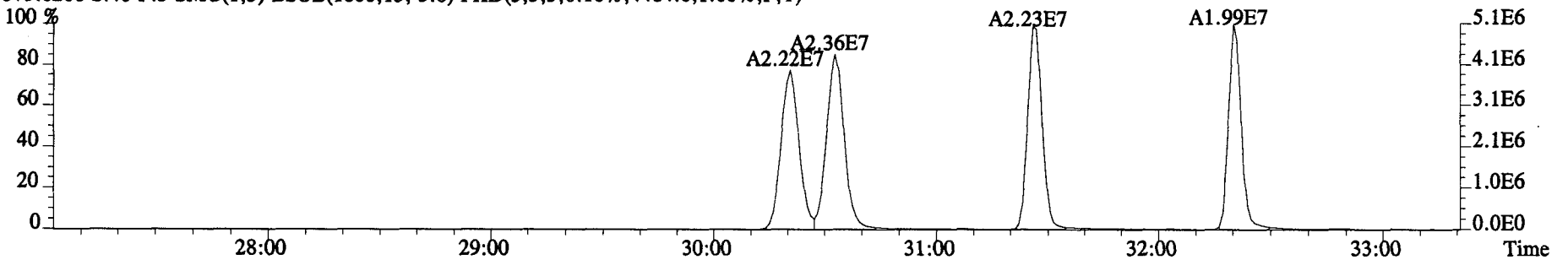


369.8919 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)

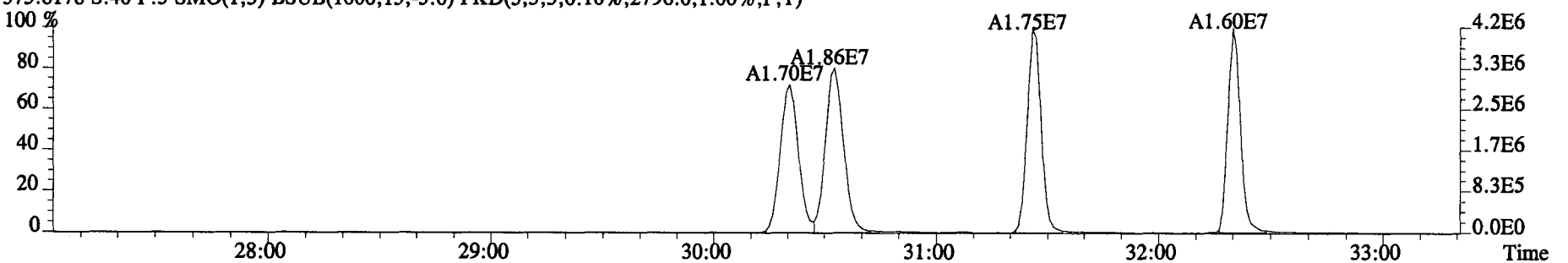


File:16AU10B1D5 #1-406 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES

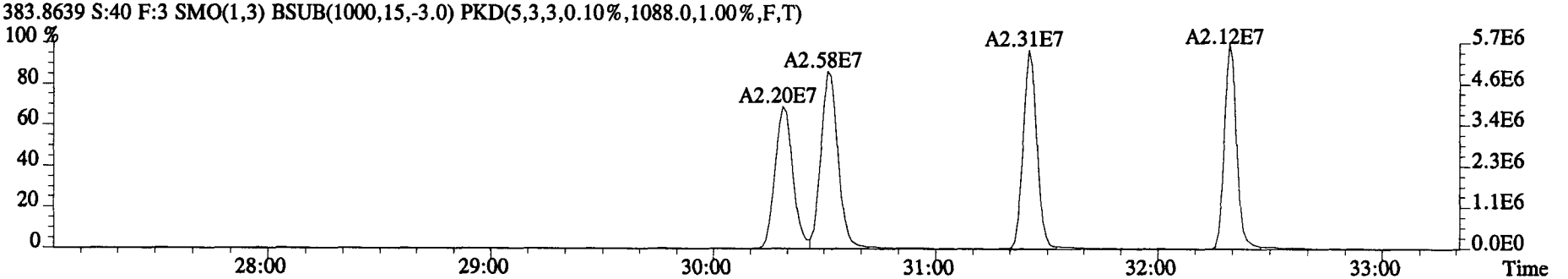
373.8208 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4484.0,1.00%,F,T)



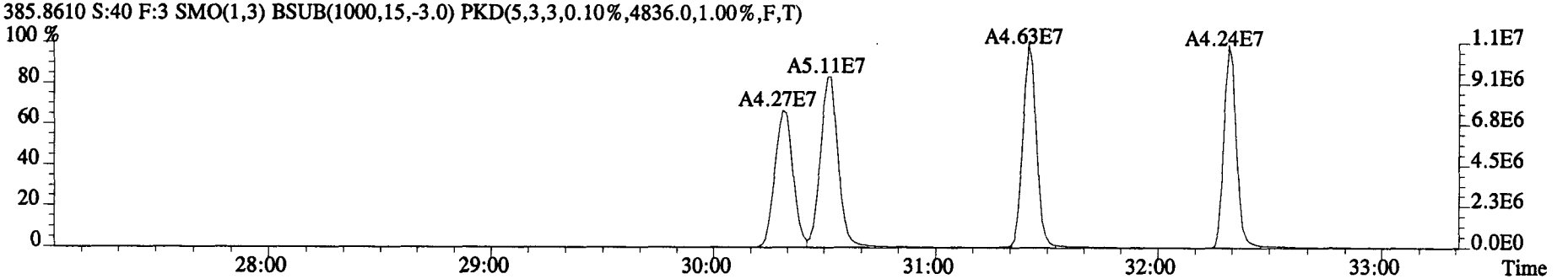
375.8178 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



383.8639 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1088.0,1.00%,F,T)

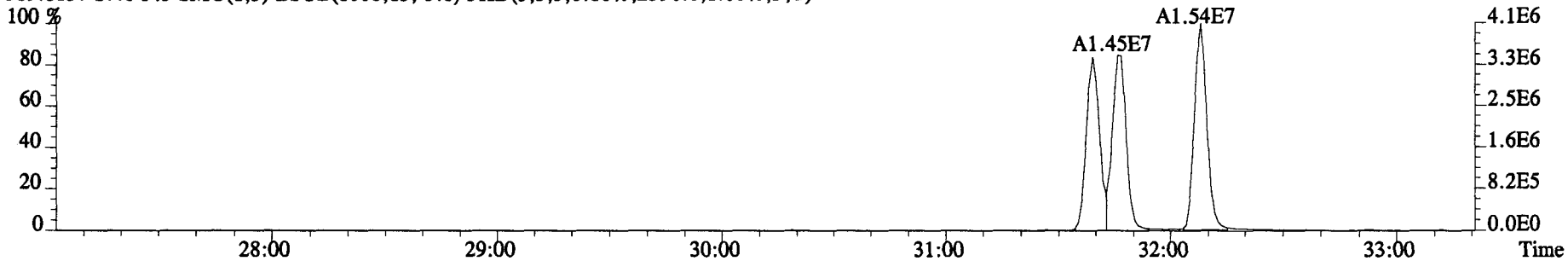


385.8610 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4836.0,1.00%,F,T)

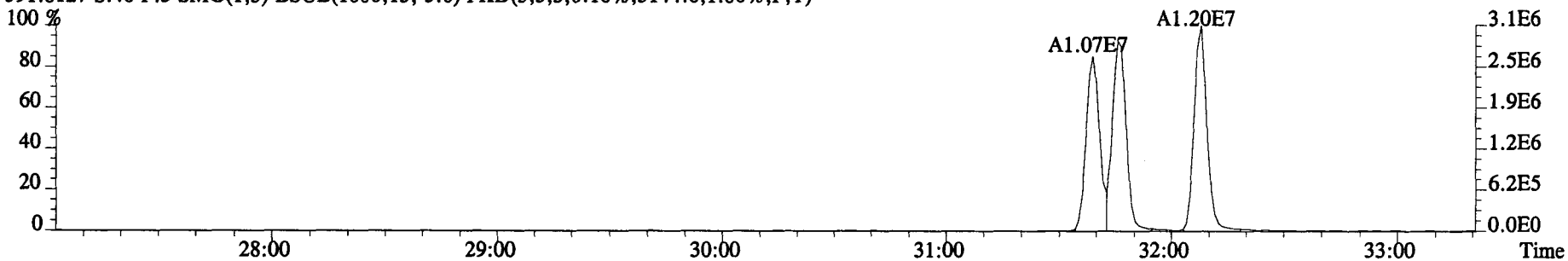


File:16AU10B1D5 #1-406 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES

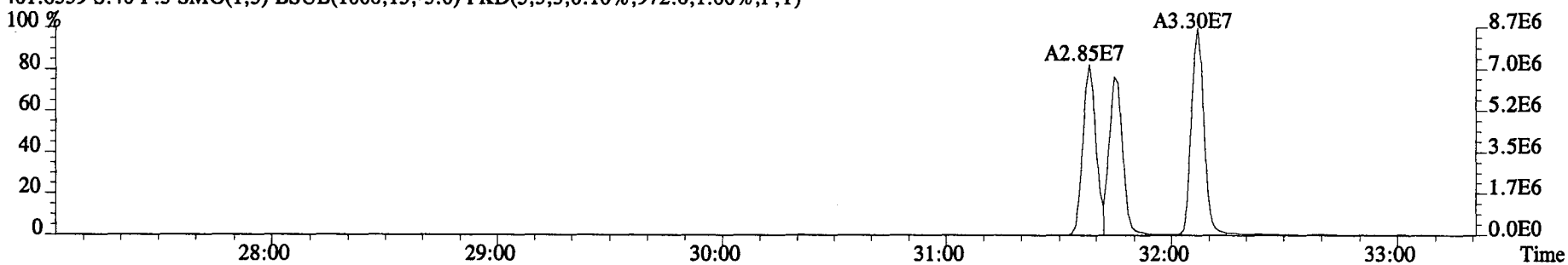
389.8157 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



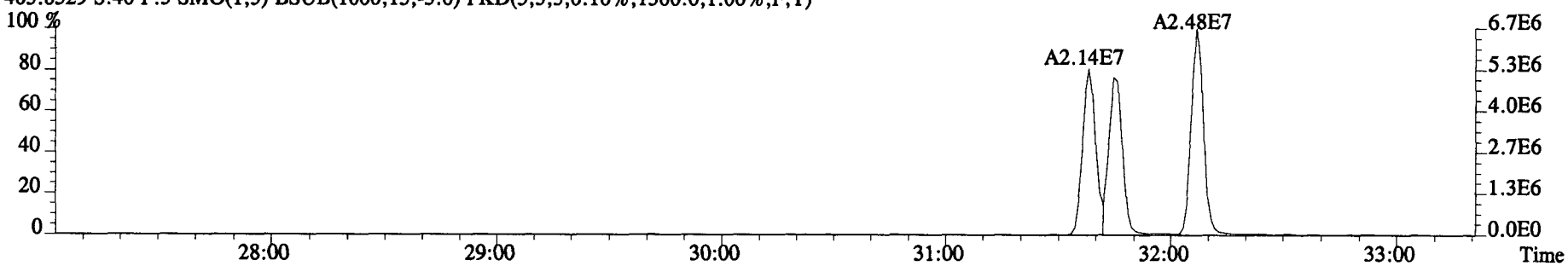
391.8127 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3144.0,1.00%,F,T)



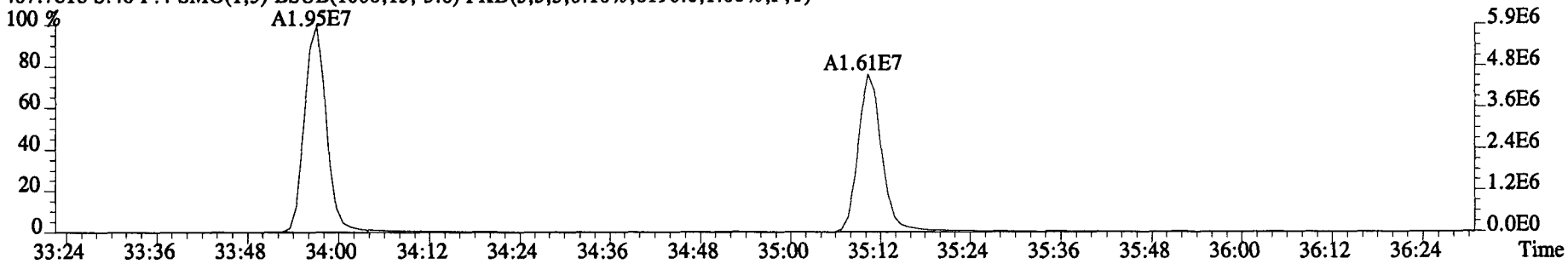
401.8559 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,972.0,1.00%,F,T)



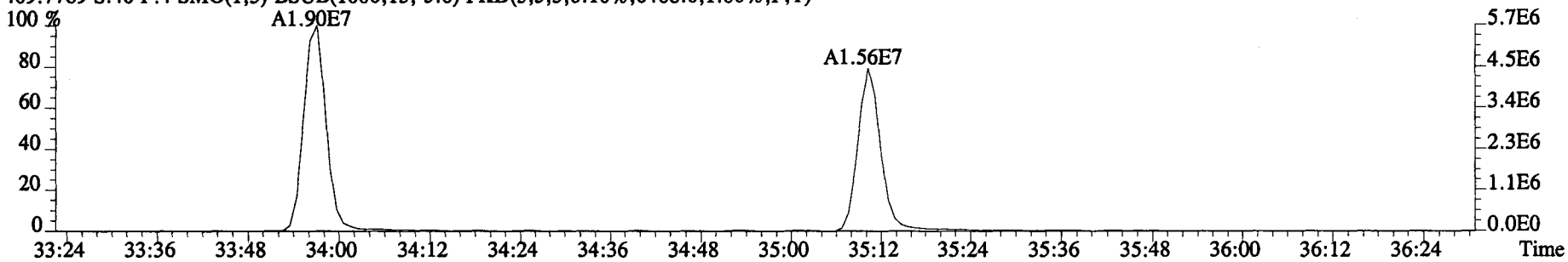
403.8529 S:40 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



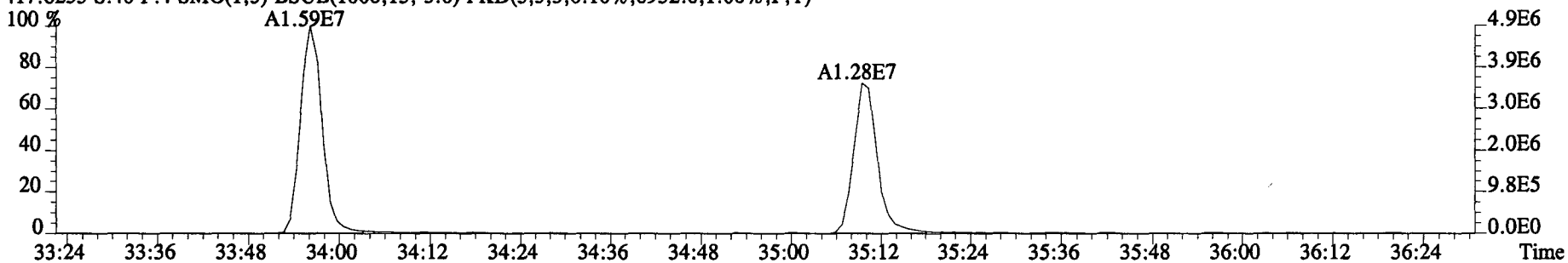
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
407.7818 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6196.0,1.00%,F,T)



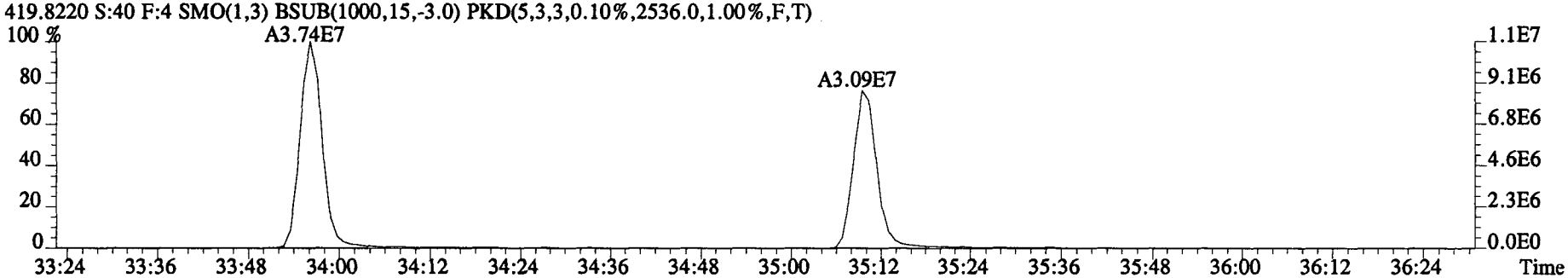
409.7789 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6468.0,1.00%,F,T)



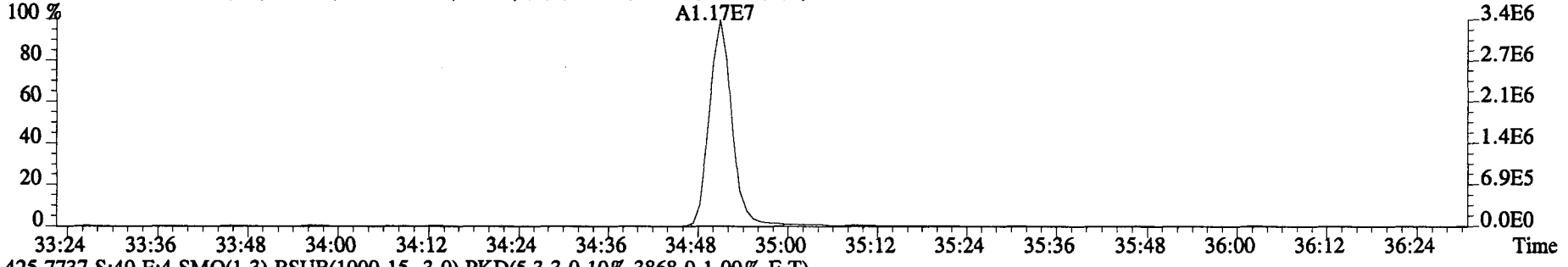
417.8253 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6932.0,1.00%,F,T)



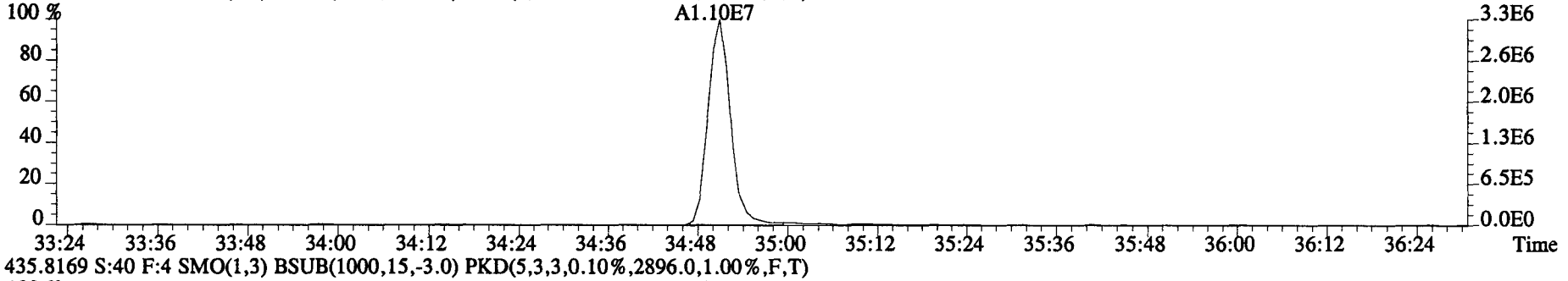
419.8220 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2536.0,1.00%,F,T)



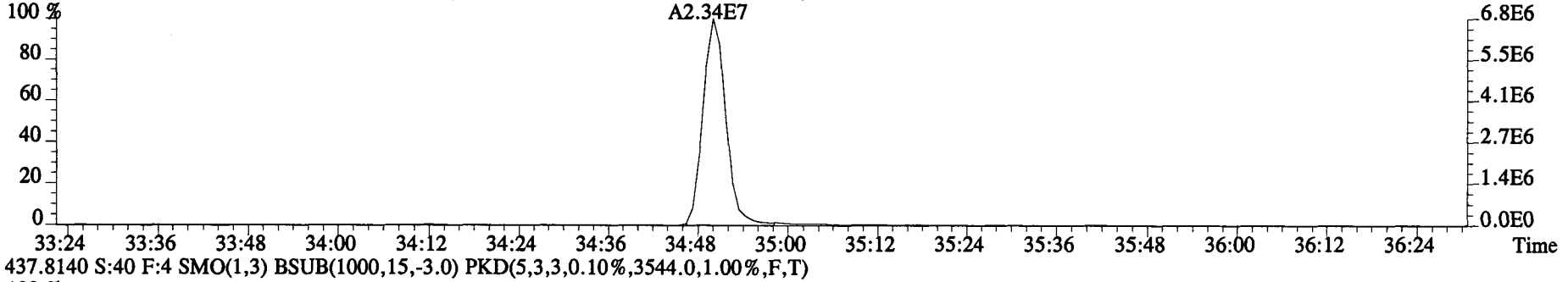
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
423.7766 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2964.0,1.00%,F,T)



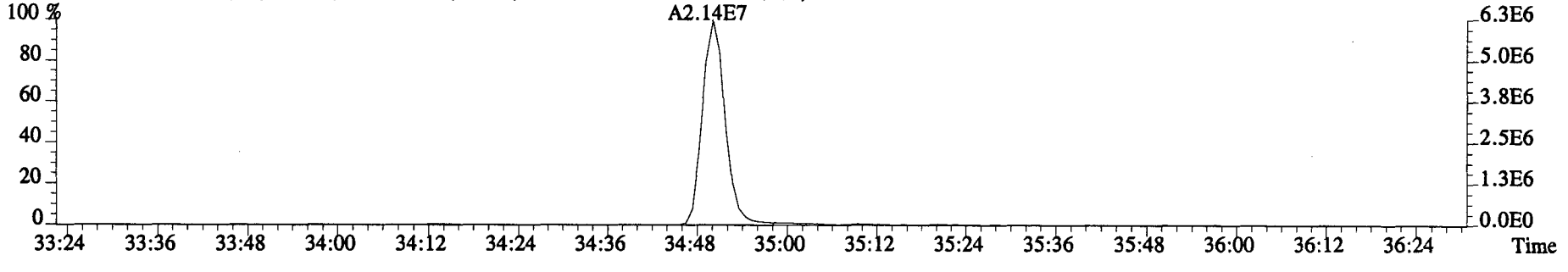
425.7737 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3868.0,1.00%,F,T)



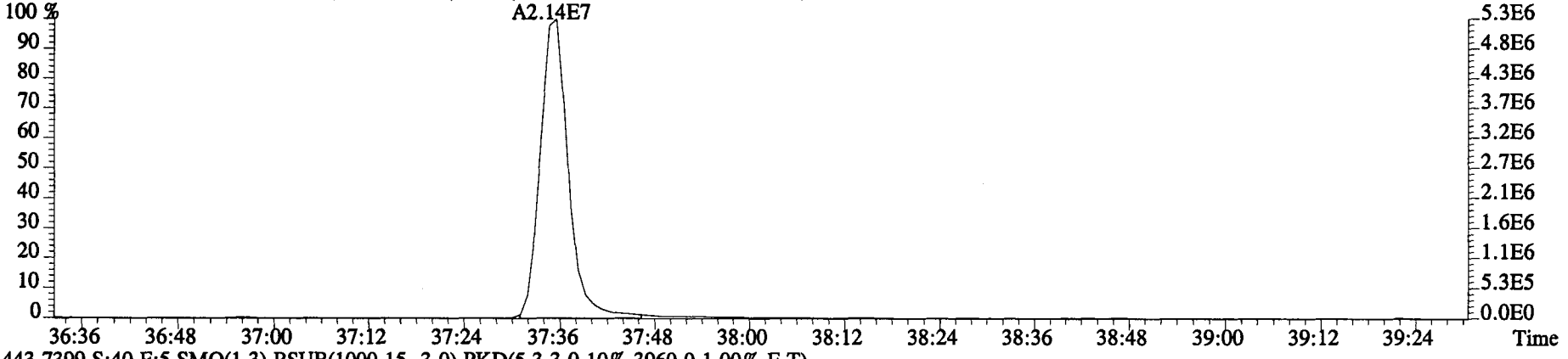
435.8169 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2896.0,1.00%,F,T)



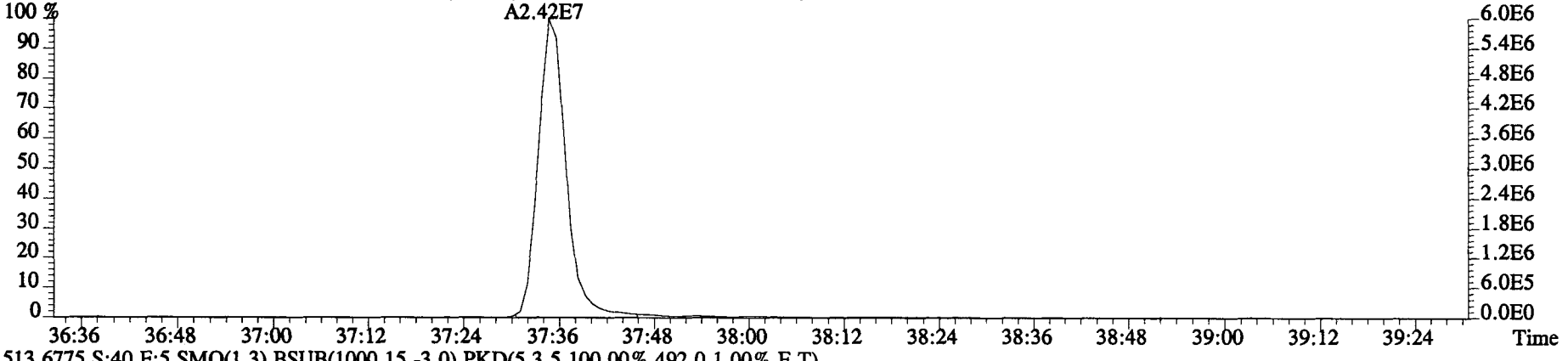
437.8140 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3544.0,1.00%,F,T)



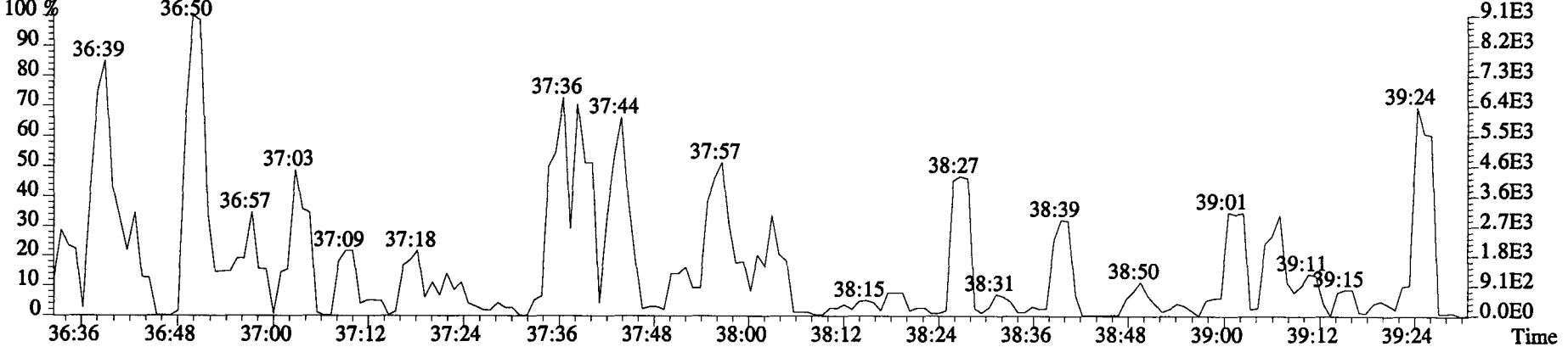
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
441.7428 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3188.0,1.00%,F,T)



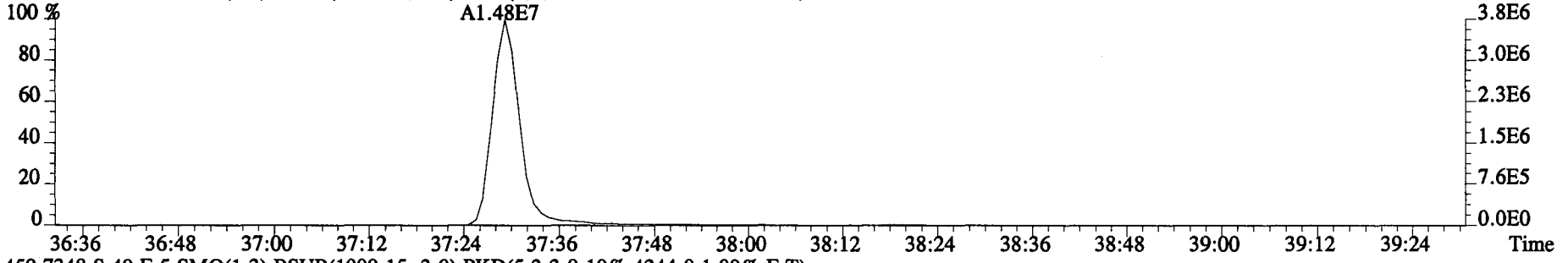
443.7399 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3960.0,1.00%,F,T)



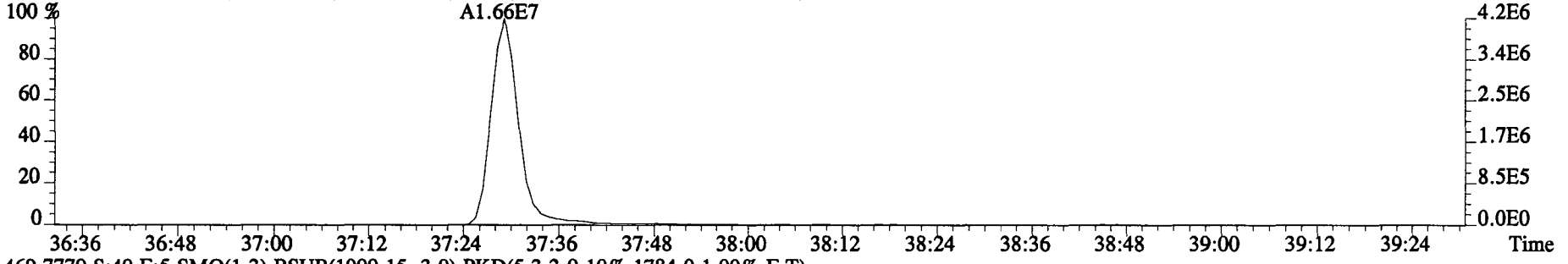
513.6775 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,492.0,1.00%,F,T)



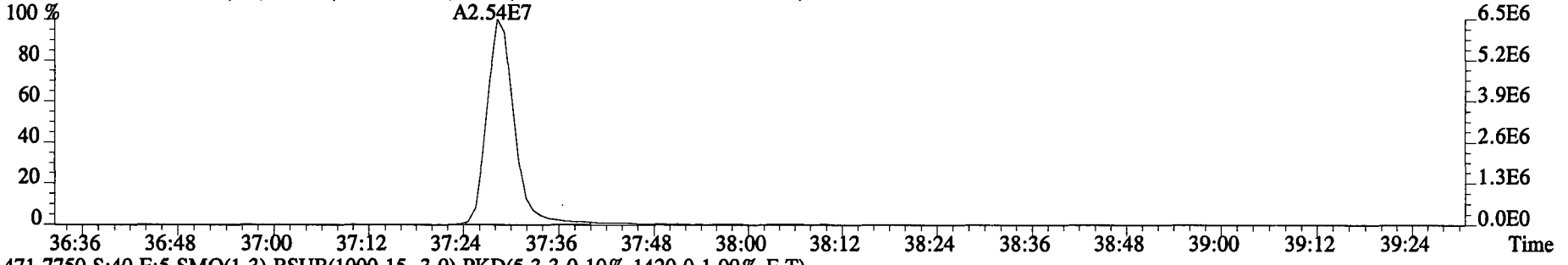
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
457.7377 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3144.0,1.00%,F,T)



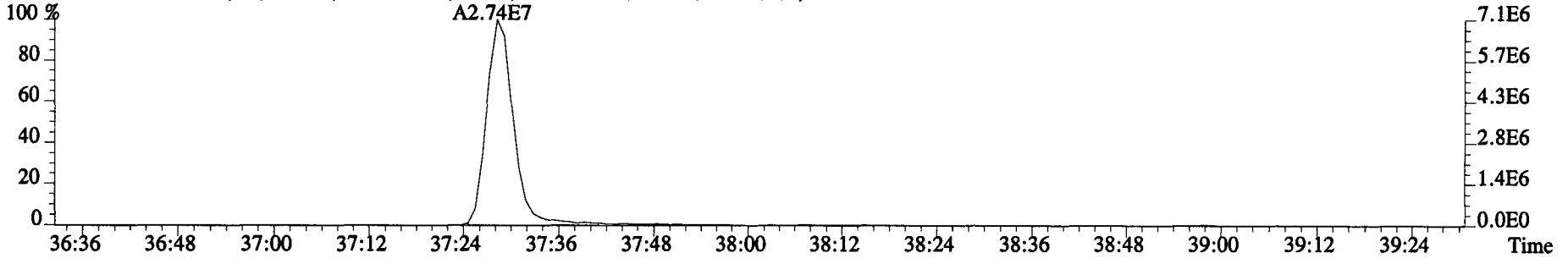
459.7348 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4244.0,1.00%,F,T)



469.7779 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1784.0,1.00%,F,T)

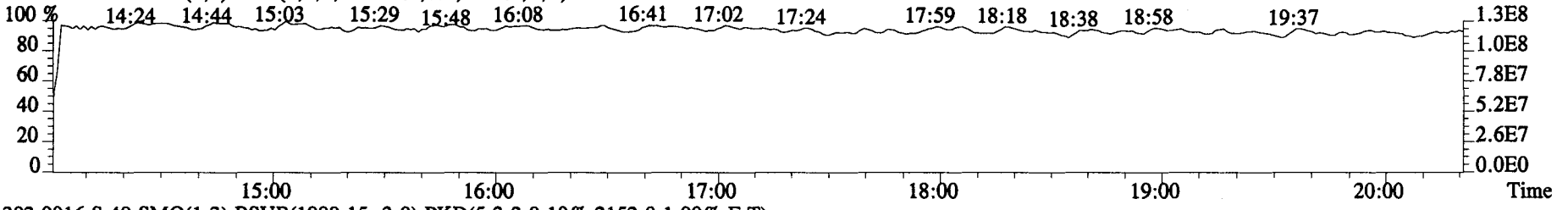


471.7750 S:40 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)

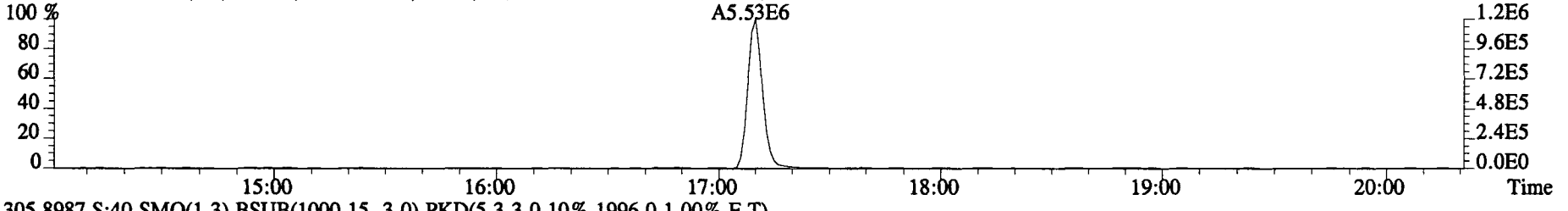


File:16AU10B1D5 #1-373 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES

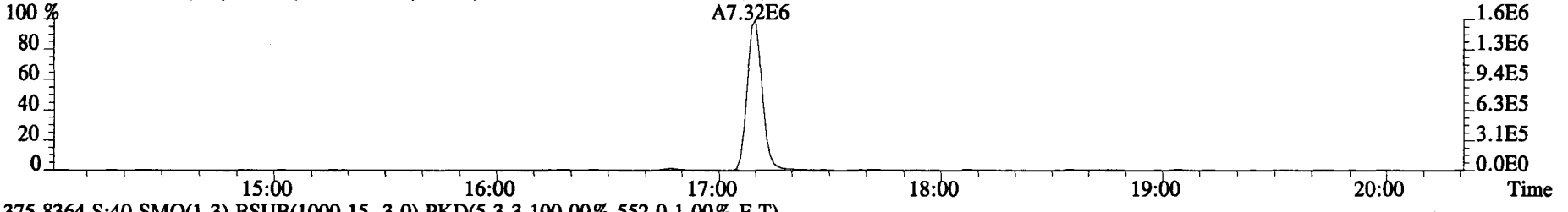
292.9825 S:40 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



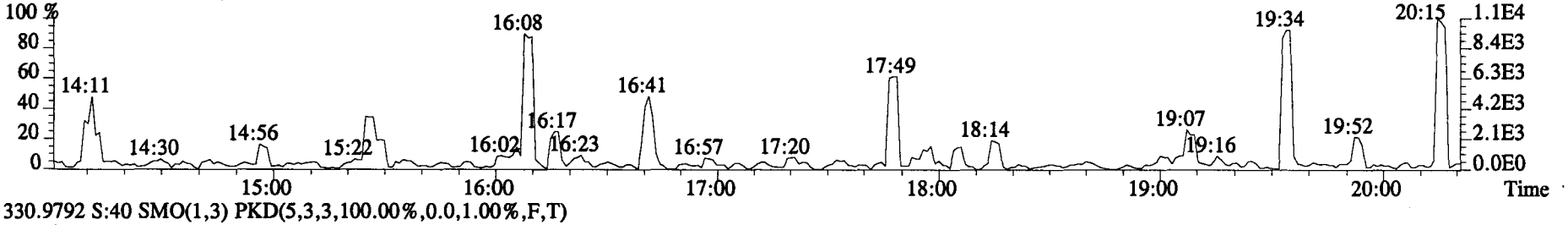
303.9016 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2152.0,1.00%,F,T)



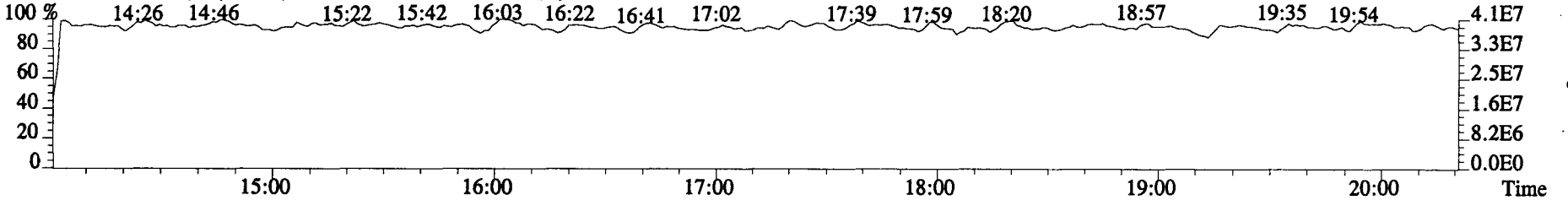
305.8987 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1996.0,1.00%,F,T)



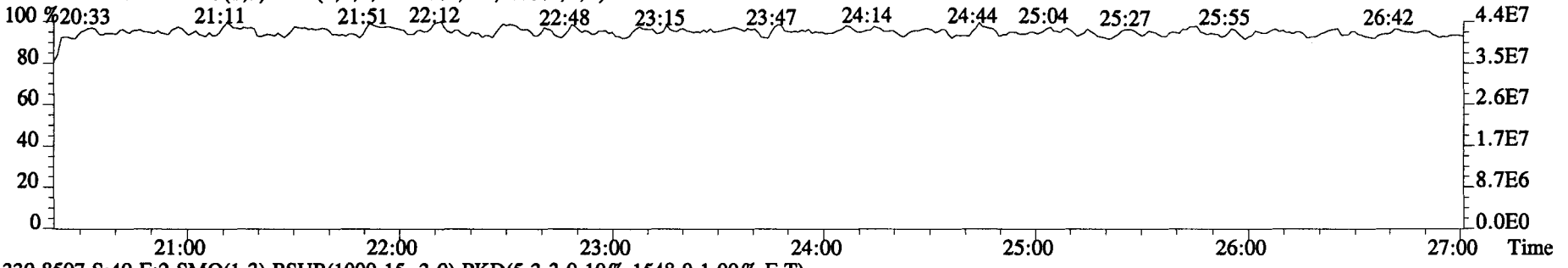
375.8364 S:40 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,552.0,1.00%,F,T)



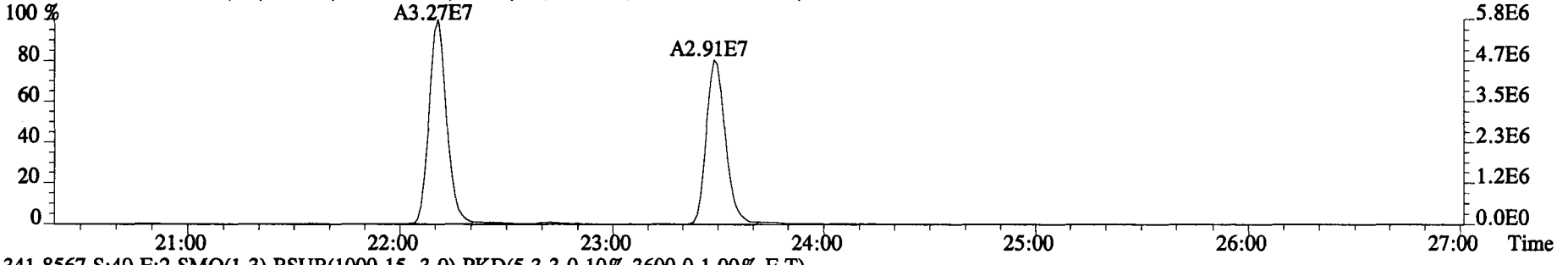
330.9792 S:40 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



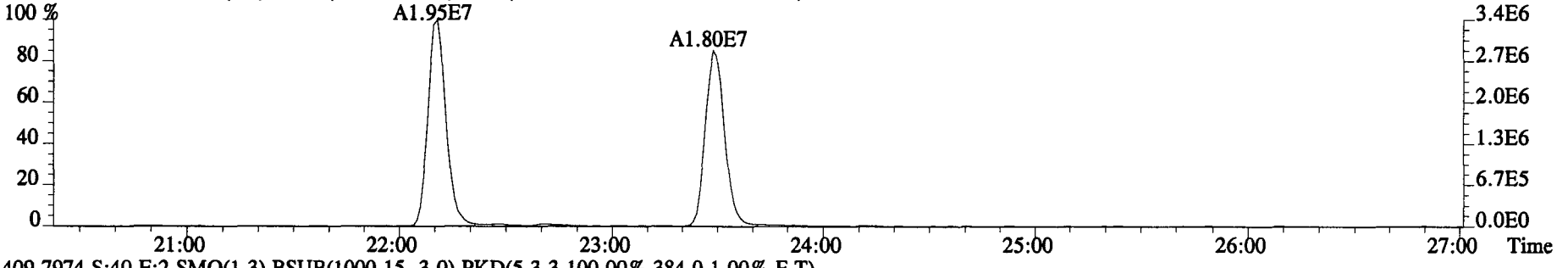
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
342.9792 S:40 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



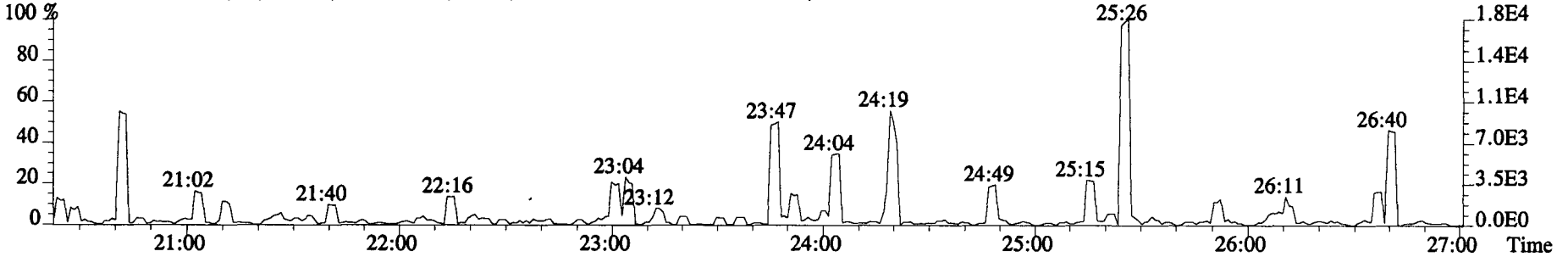
339.8597 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1548.0,1.00%,F,T)



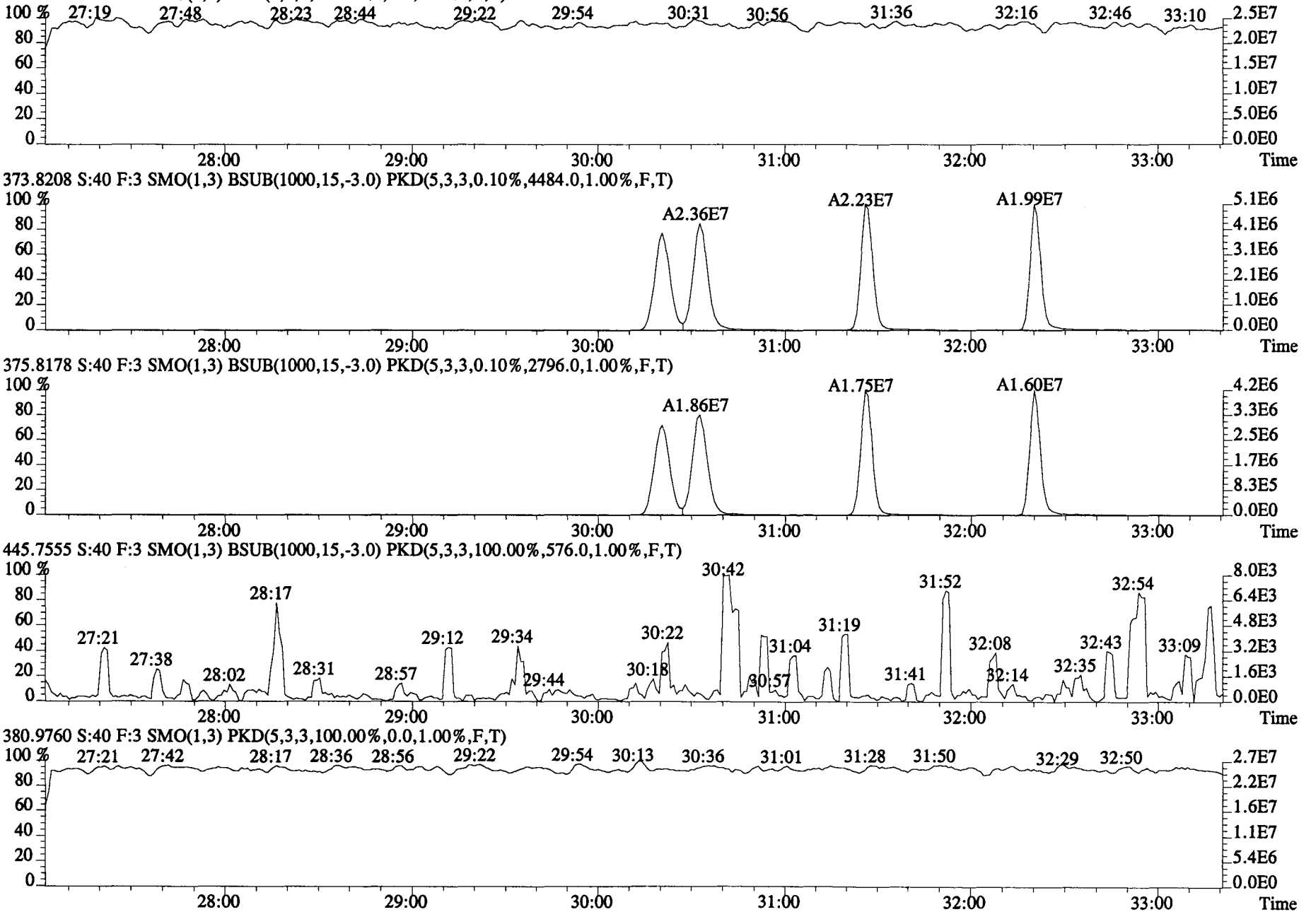
341.8567 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3600.0,1.00%,F,T)



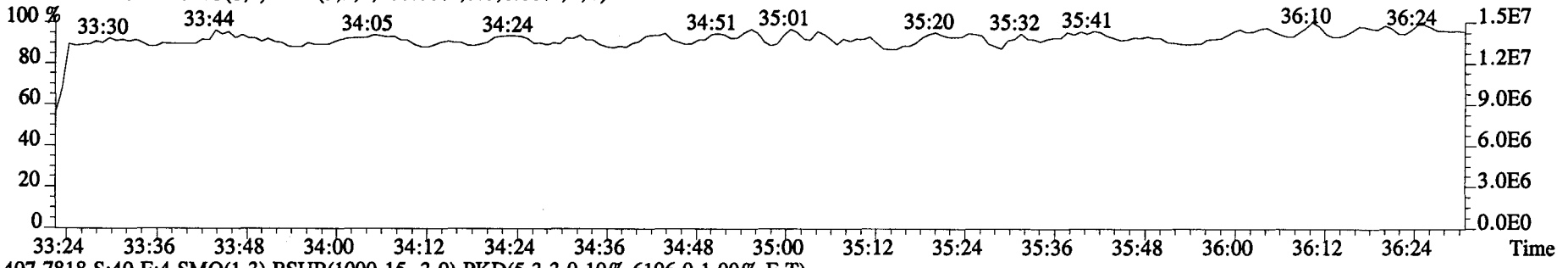
409.7974 S:40 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,384.0,1.00%,F,T)



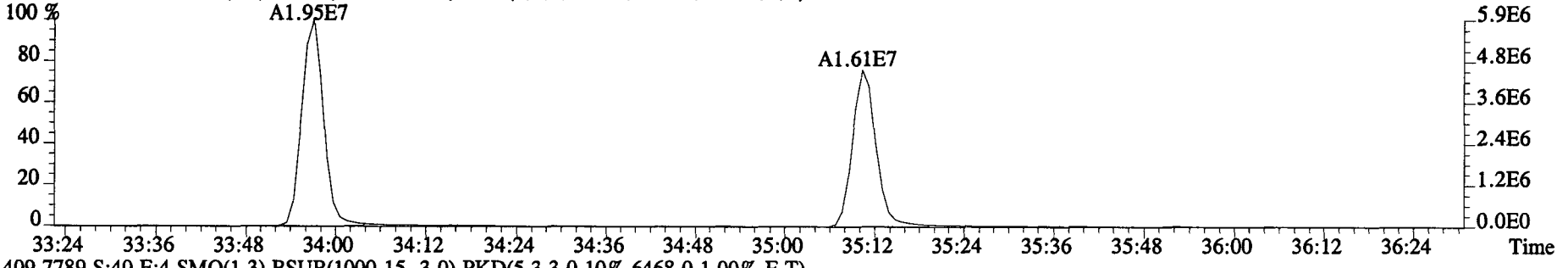
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES



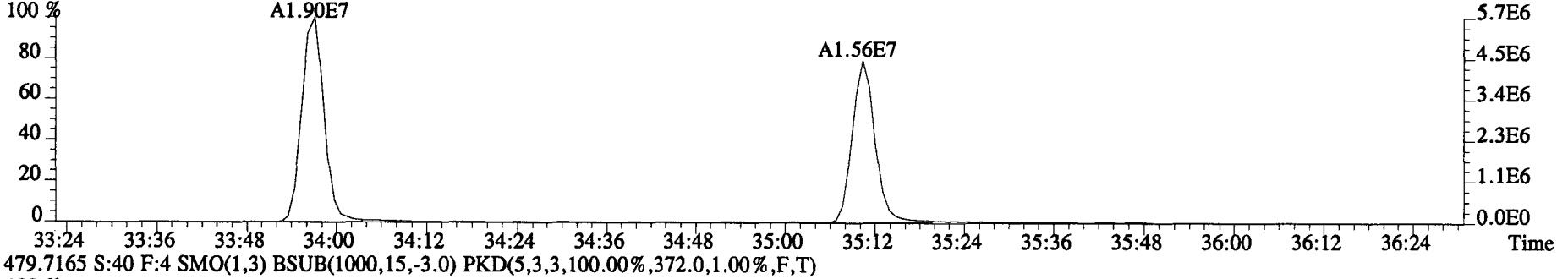
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
430.9728 S:40 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



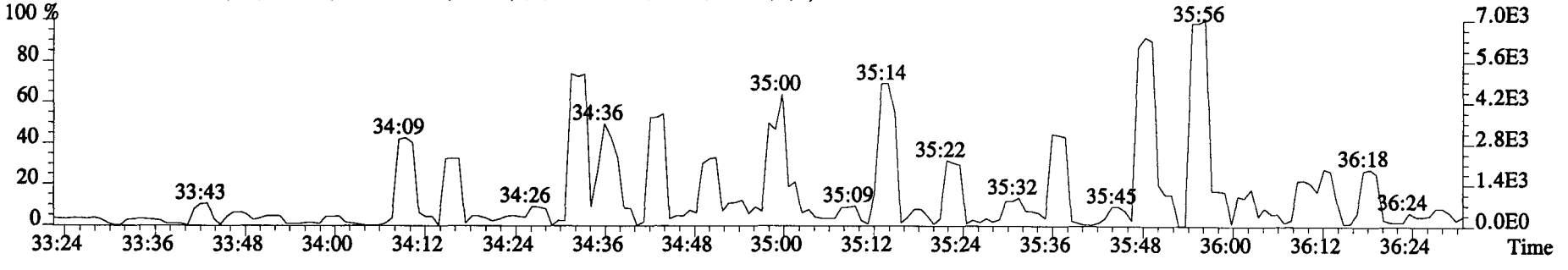
407.7818 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6196.0,1.00%,F,T)



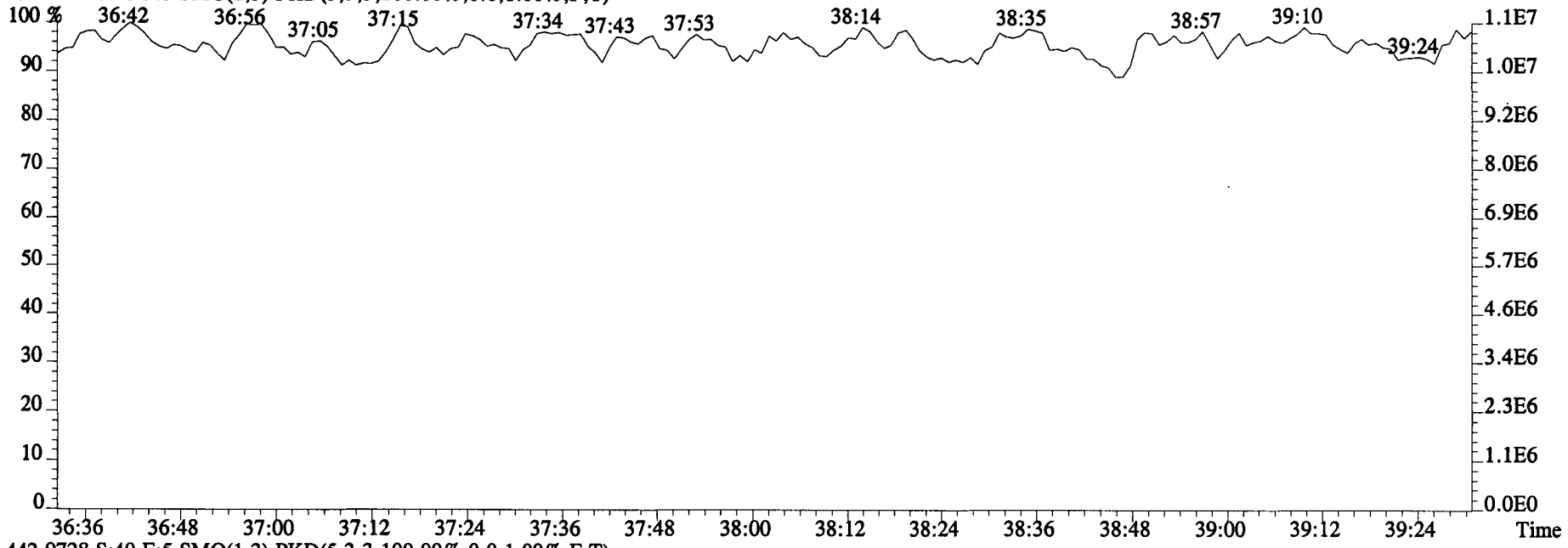
409.7789 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6468.0,1.00%,F,T)



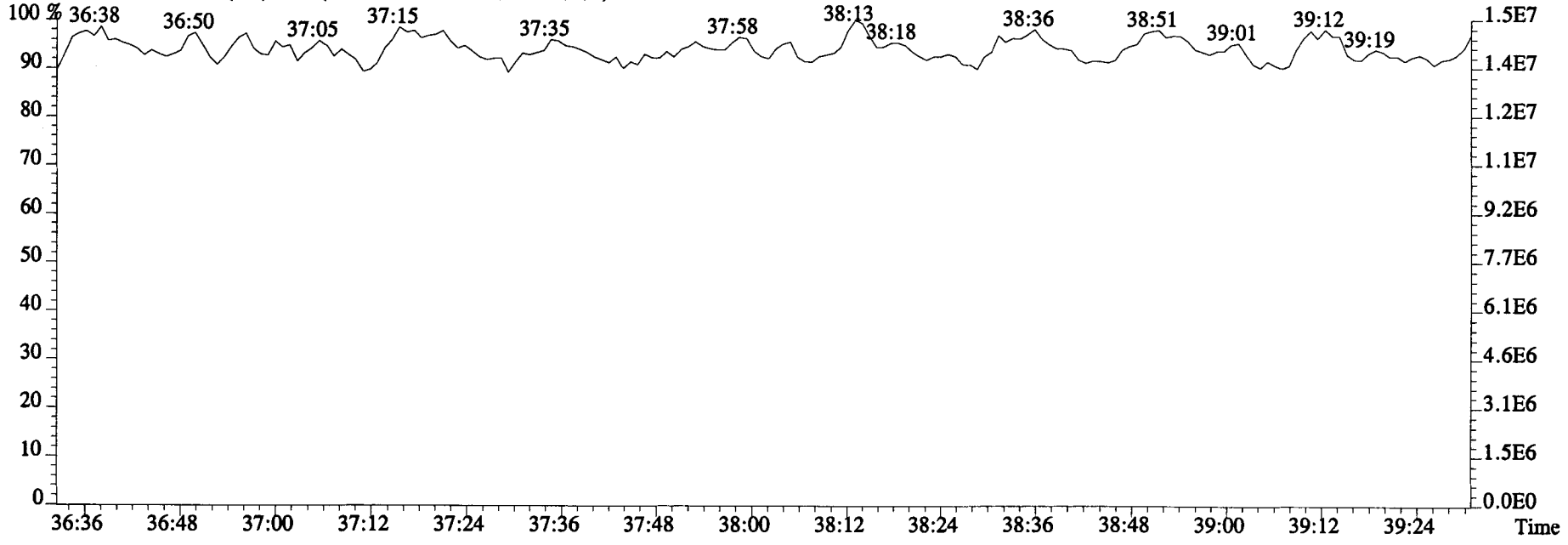
479.7165 S:40 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,372.0,1.00%,F,T)



File:16AU10B1D5 #1-196 Acq:17-AUG-2010 20:46:24 GC EI+ Voltage SIR 70SE
Sample#40 Text:ST0816E :CS3 10DXN336 Exp:DIOXINRES
454.9728 S:40 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

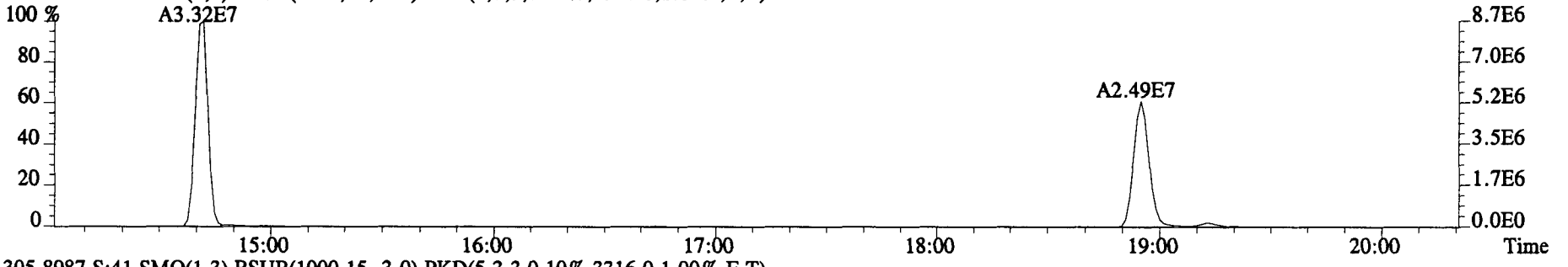


442.9728 S:40 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

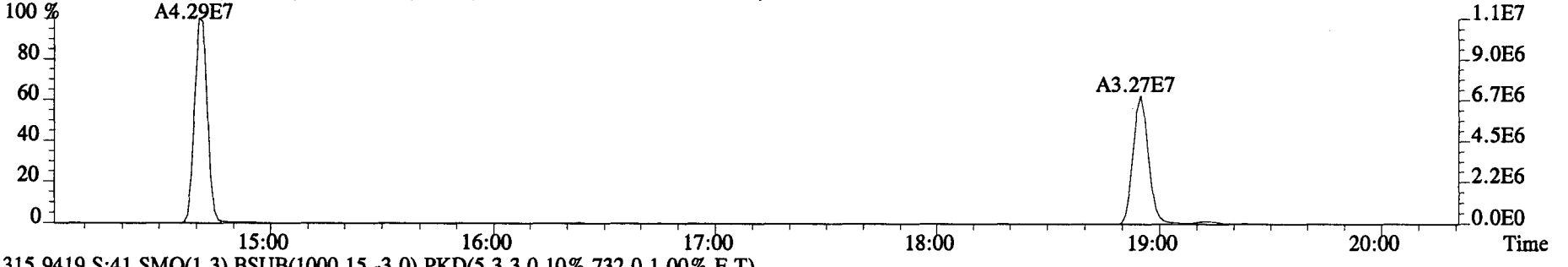


File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

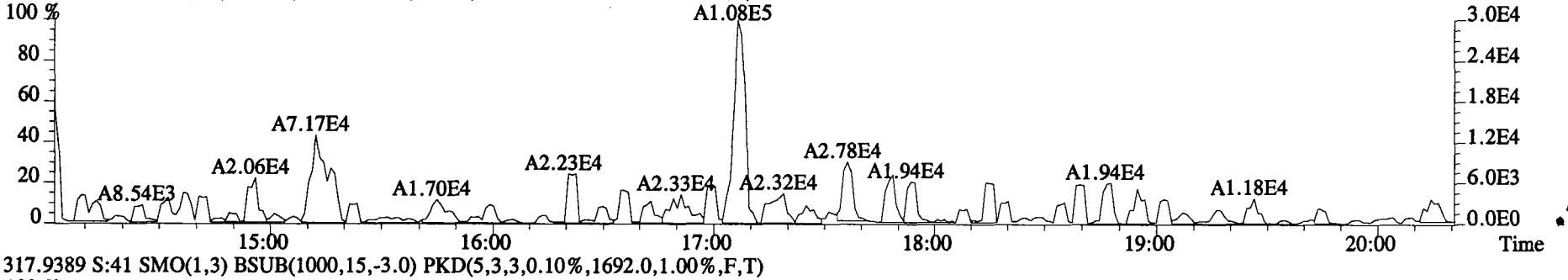
303.9016 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2900.0,1.00%,F,T)



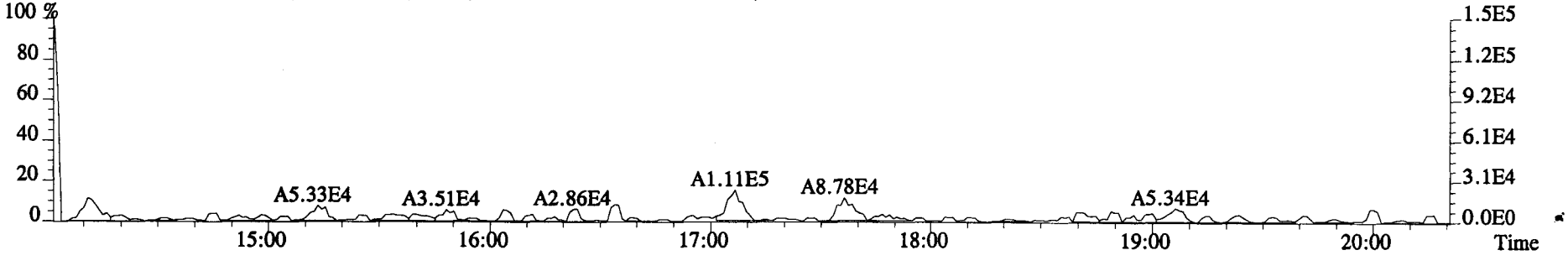
305.8987 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3316.0,1.00%,F,T)



315.9419 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)

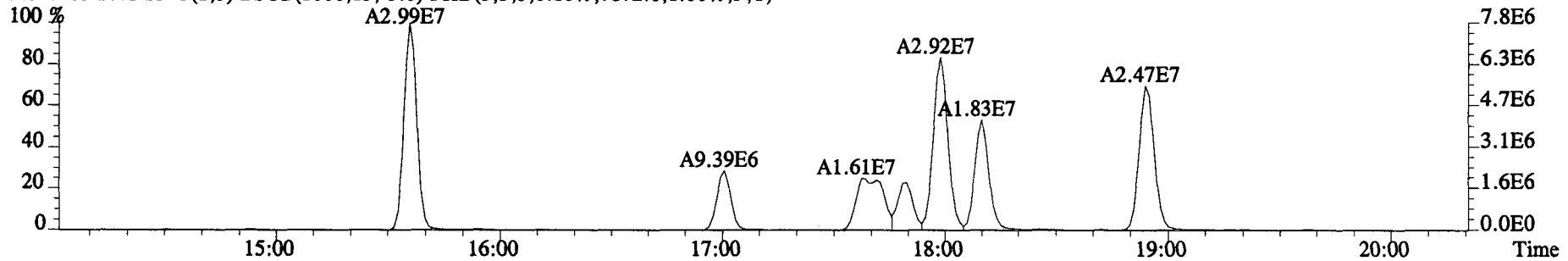


317.9389 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1692.0,1.00%,F,T)

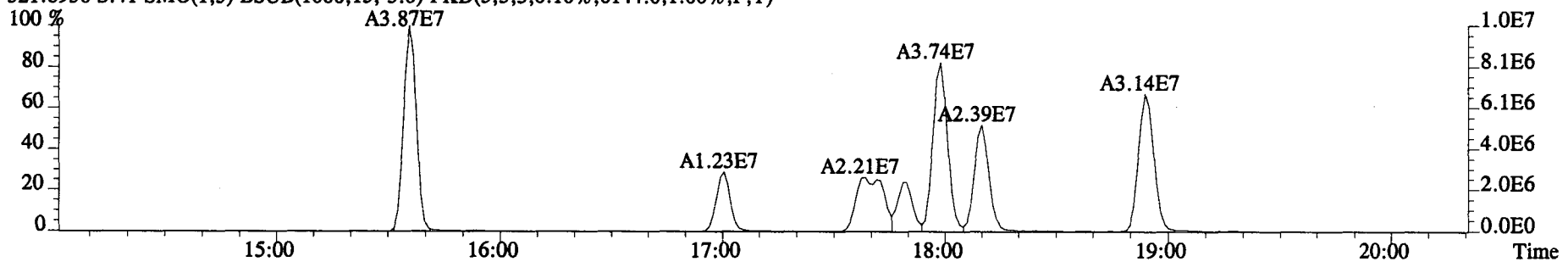


File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

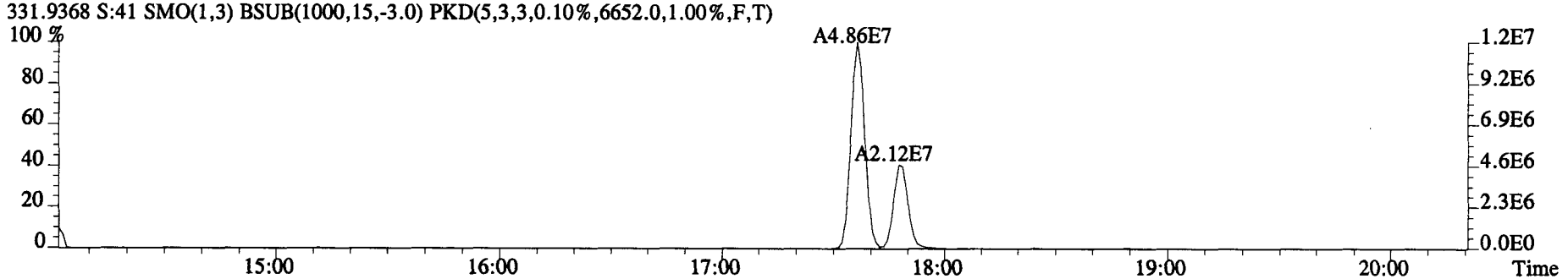
319.8965 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7872.0,1.00%,F,T)



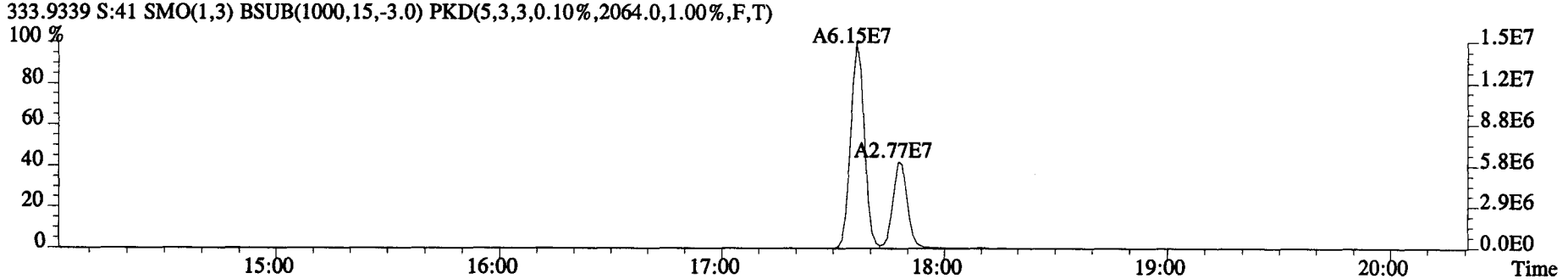
321.8936 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6144.0,1.00%,F,T)



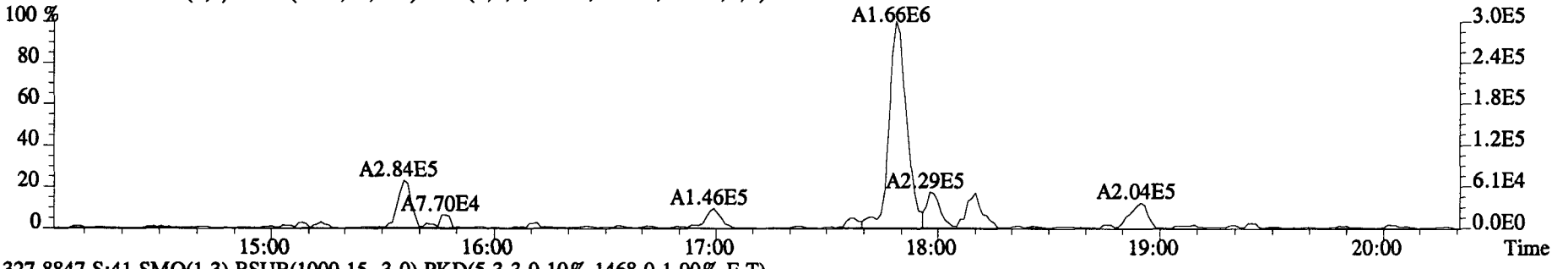
331.9368 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6652.0,1.00%,F,T)



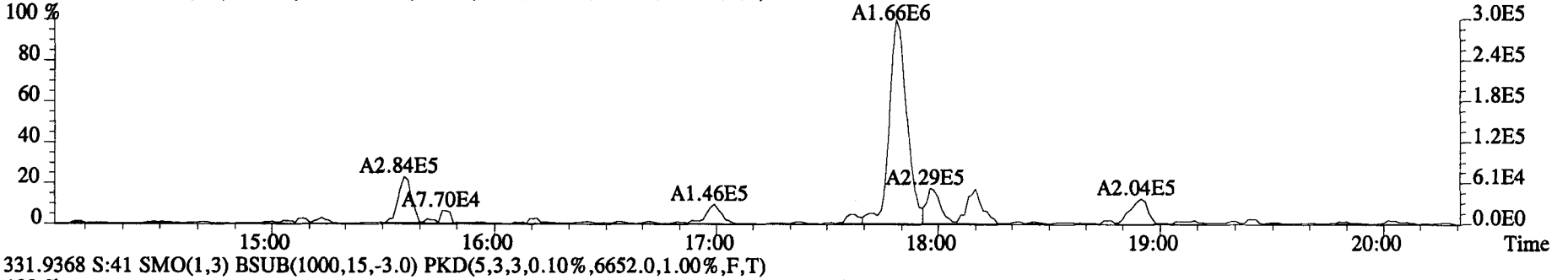
333.9339 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2064.0,1.00%,F,T)



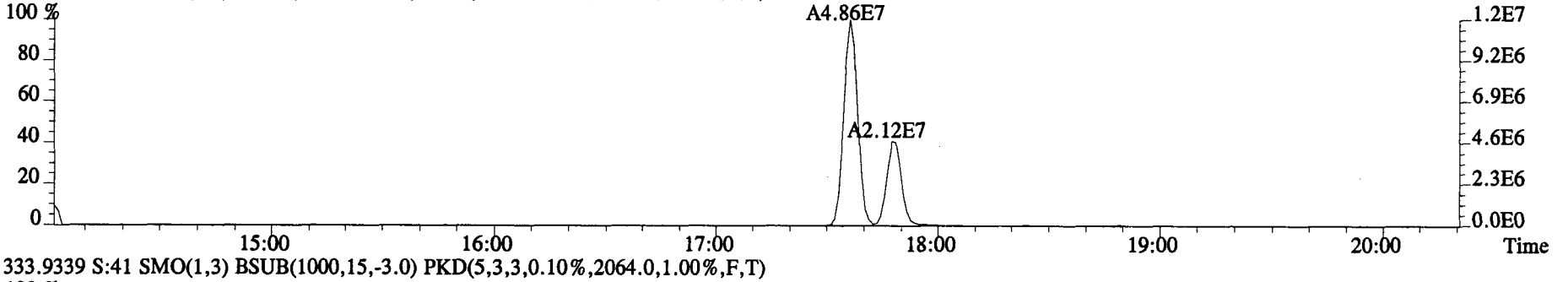
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
327.8847 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T)



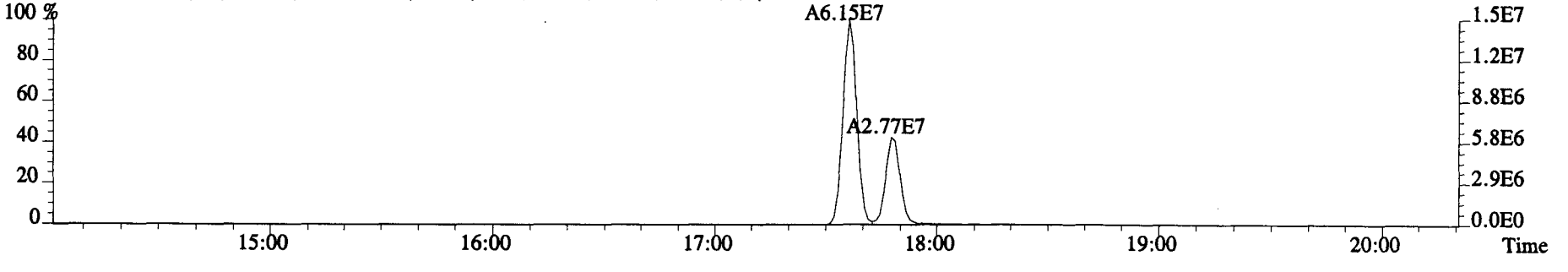
327.8847 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T)



331.9368 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6652.0,1.00%,F,T)

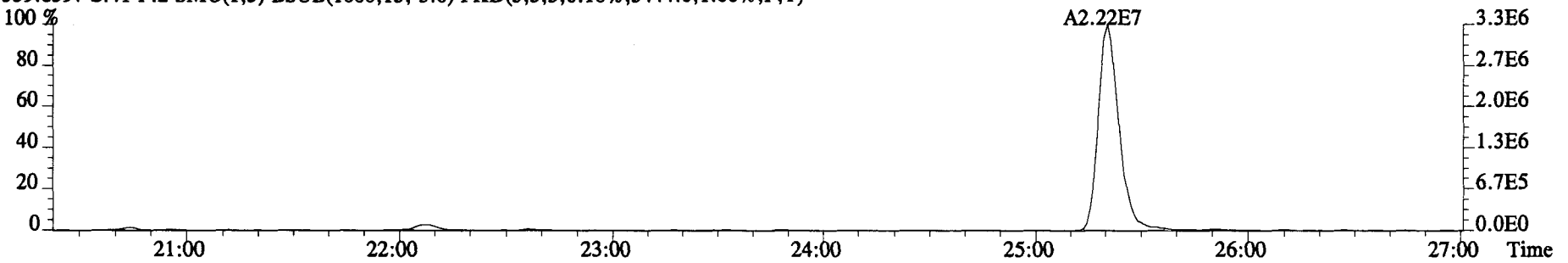


333.9339 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2064.0,1.00%,F,T)

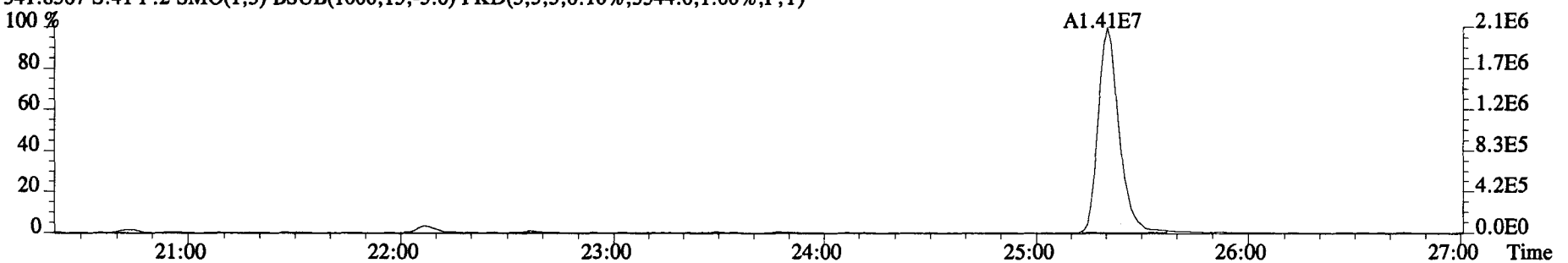


File:16AU10B1D5 #1-414 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

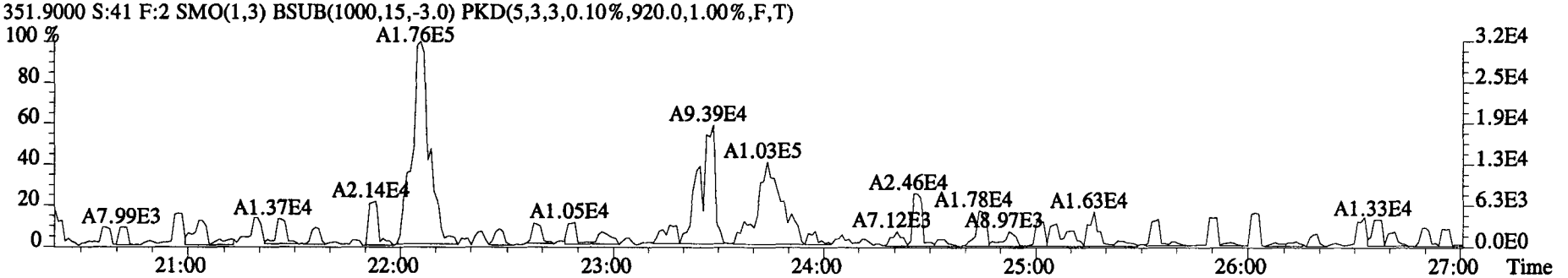
339.8597 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3444.0,1.00%,F,T)



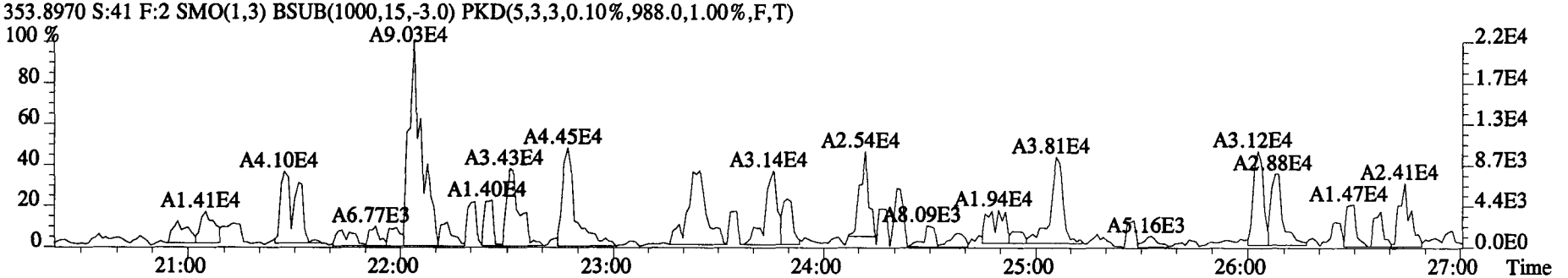
341.8567 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3544.0,1.00%,F,T)



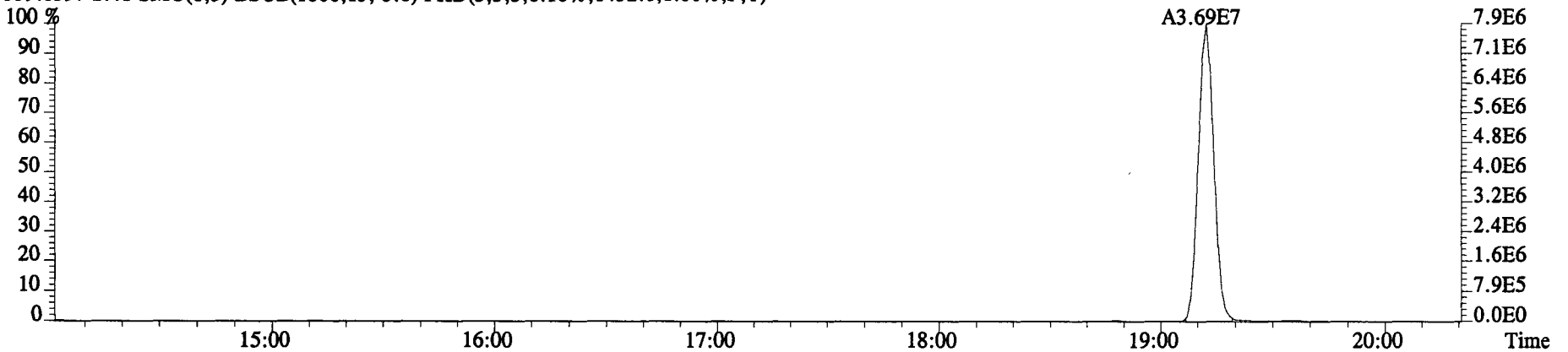
351.9000 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



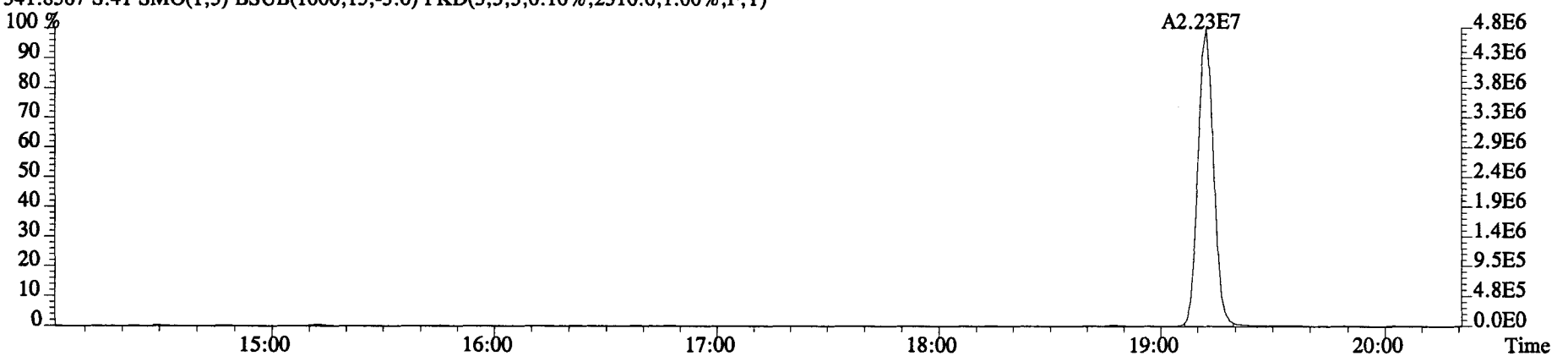
353.8970 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,988.0,1.00%,F,T)



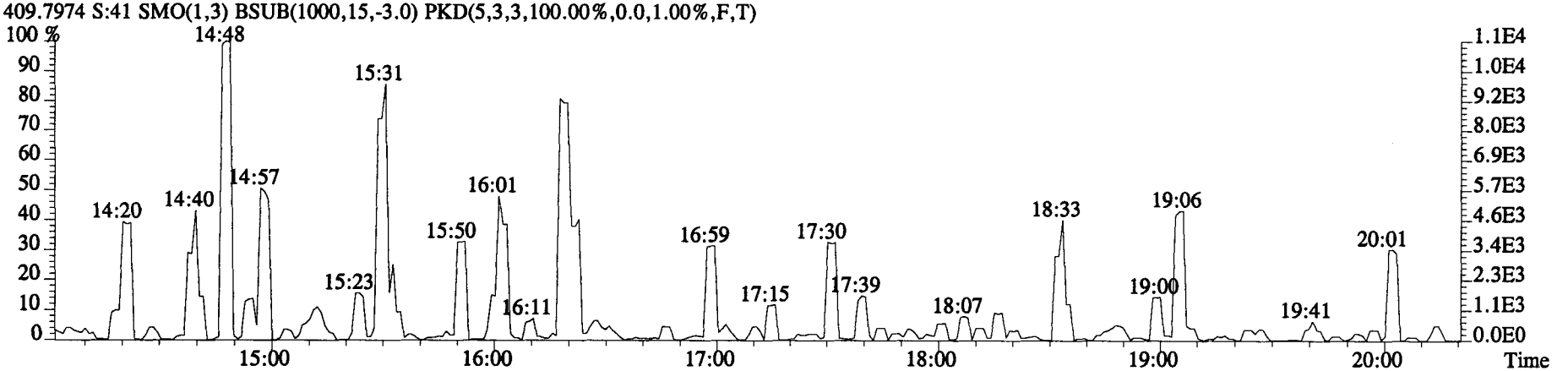
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
339.8597 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T)



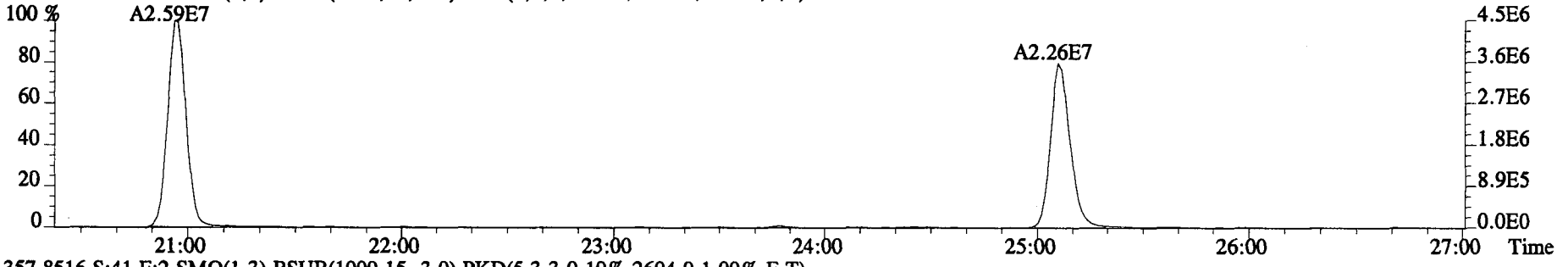
341.8567 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2316.0,1.00%,F,T)



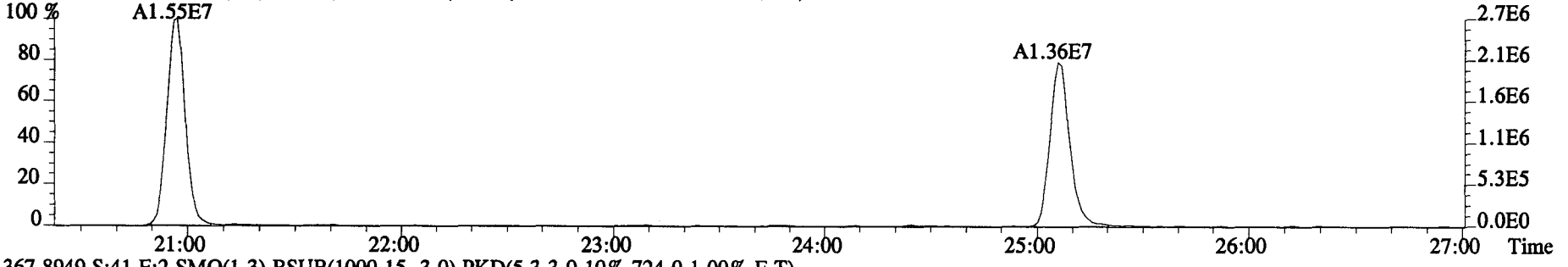
409.7974 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



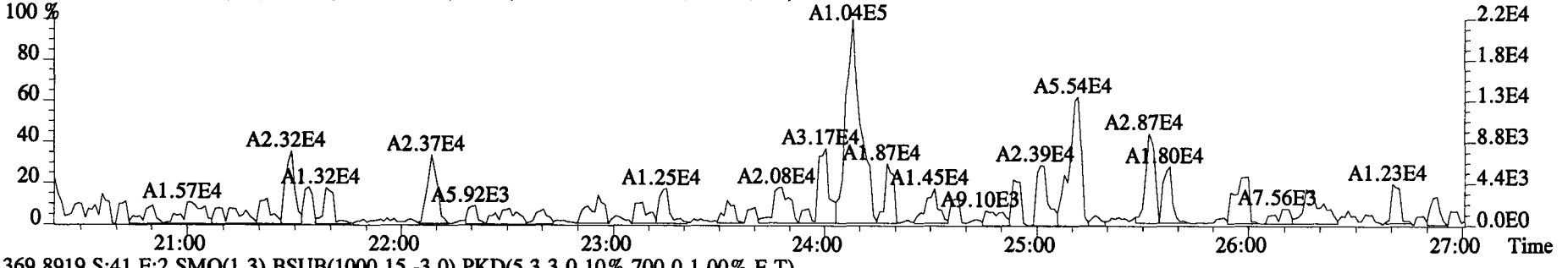
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
355.8546 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4684.0,1.00%,F,T)



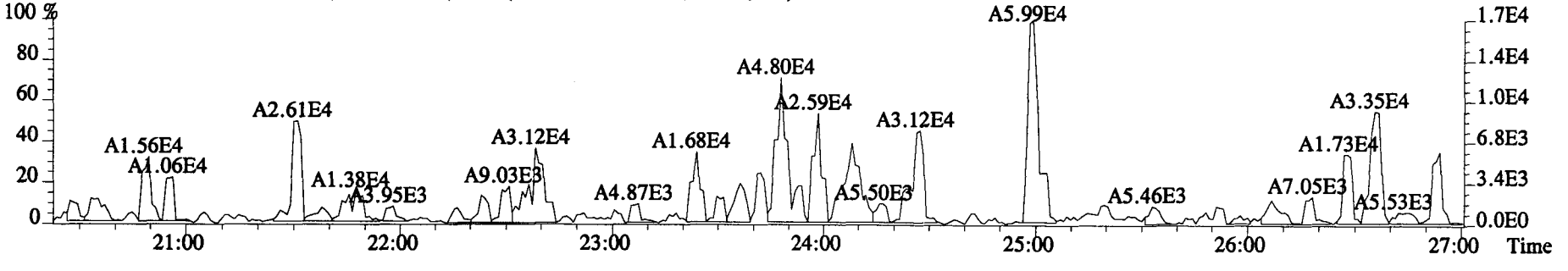
357.8516 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2604.0,1.00%,F,T)



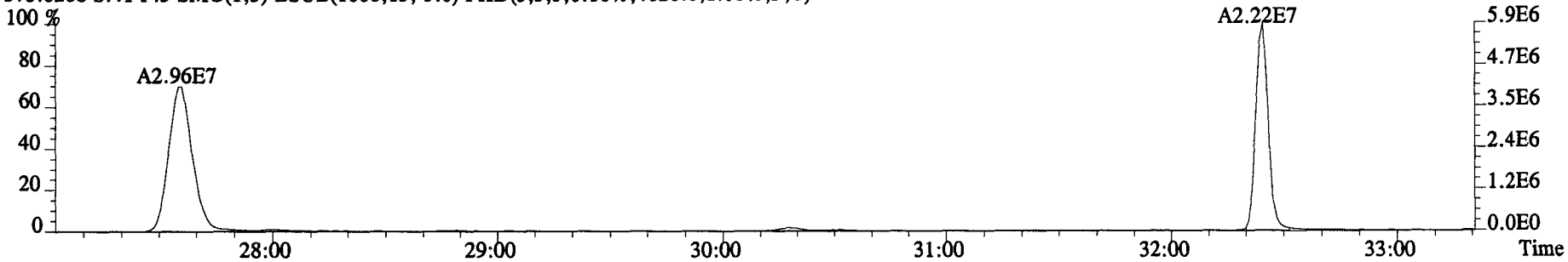
367.8949 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,724.0,1.00%,F,T)

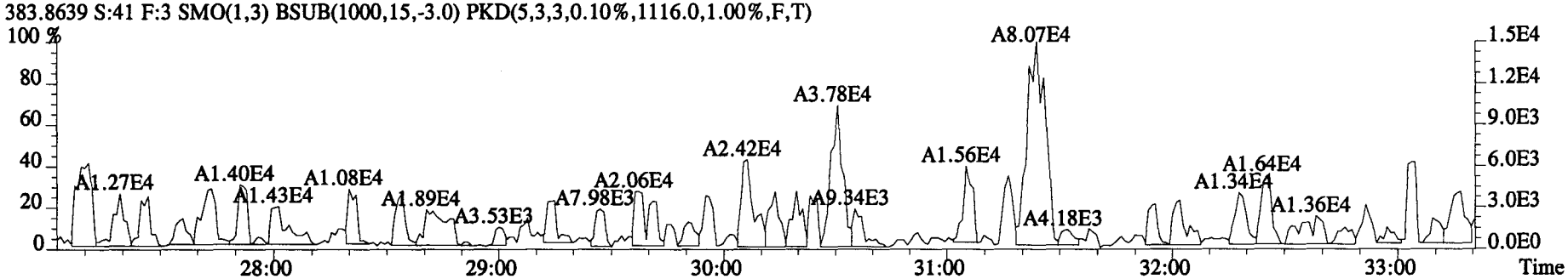


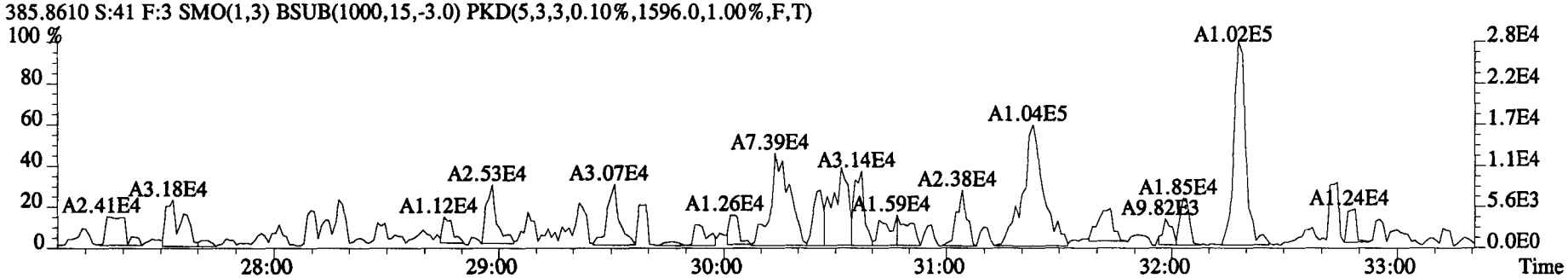
369.8919 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)



File:16AU10B1D5 #1-406 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

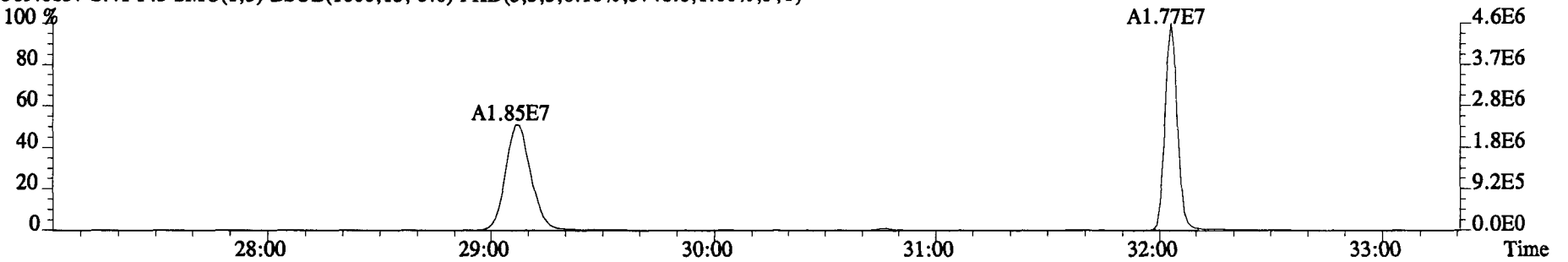




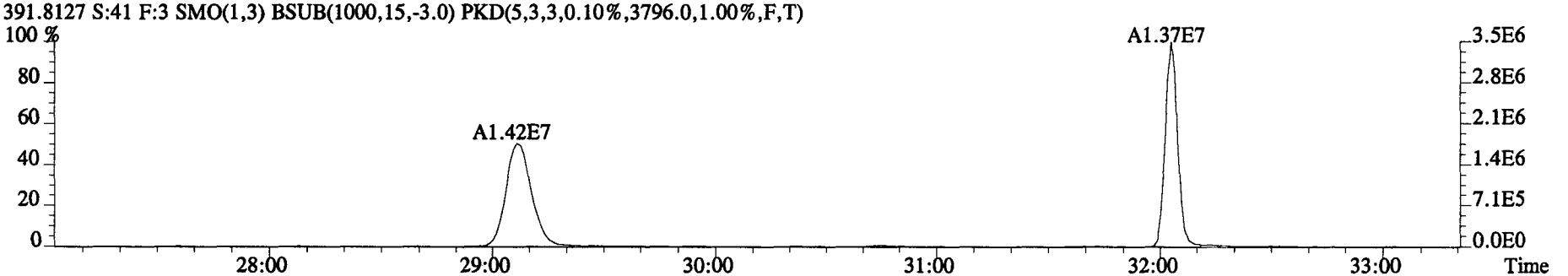


File:16AU10B1D5 #1-406 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

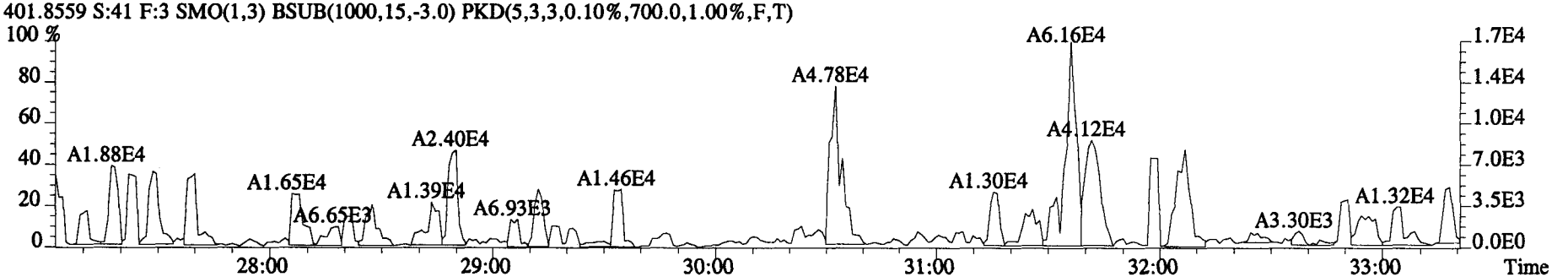
389.8157 S:41 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)



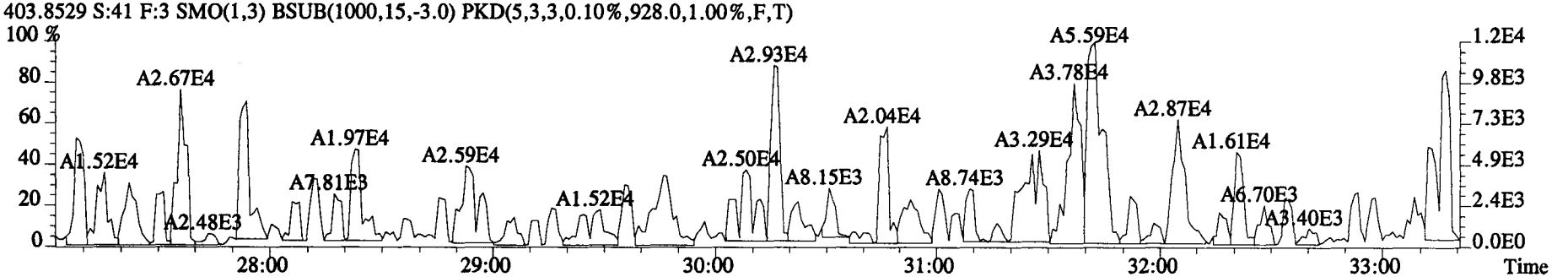
391.8127 S:41 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3796.0,1.00%,F,T)



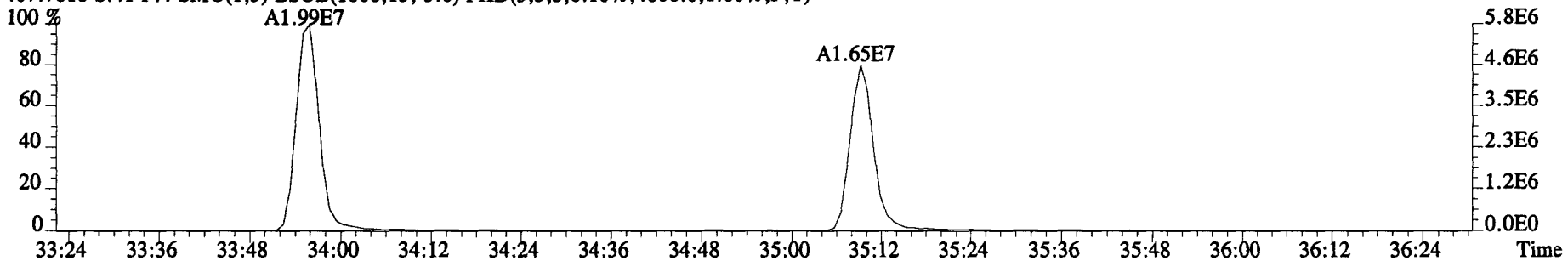
401.8559 S:41 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,700.0,1.00%,F,T)

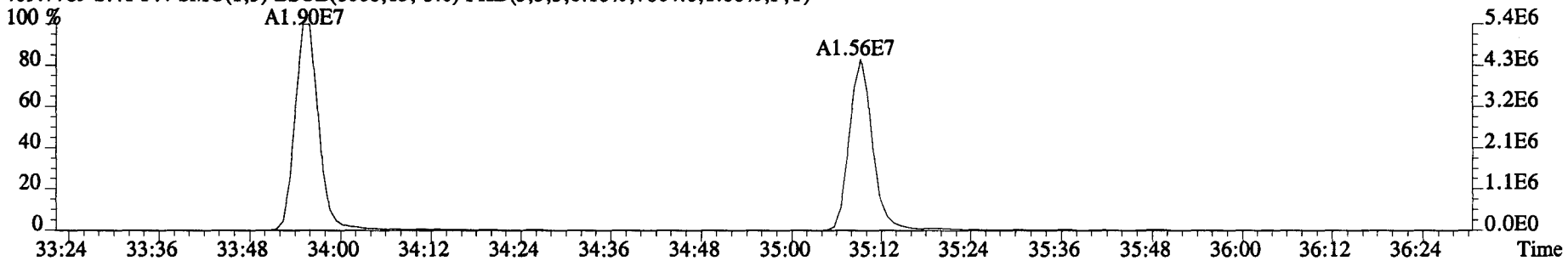


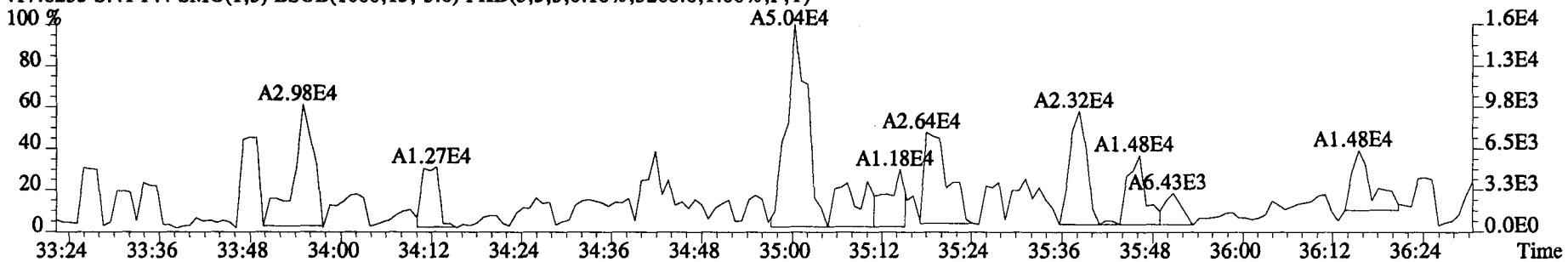
403.8529 S:41 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,928.0,1.00%,F,T)

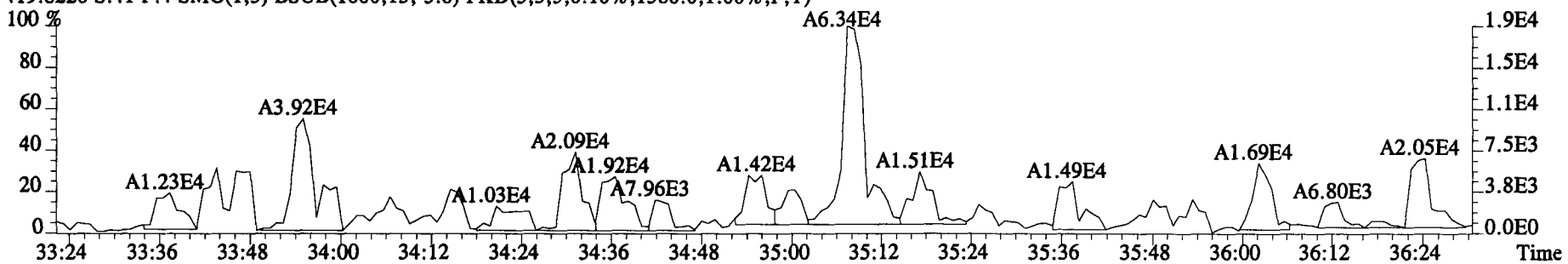


File:16AU10B1D5 #1-214 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

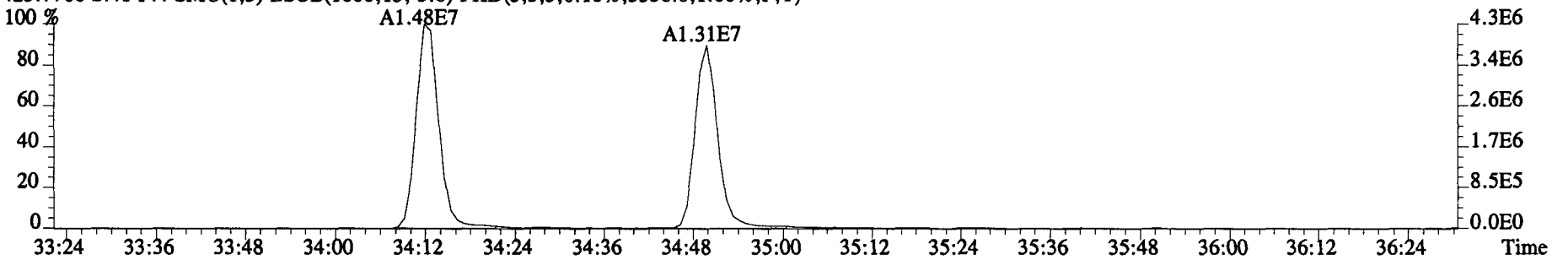




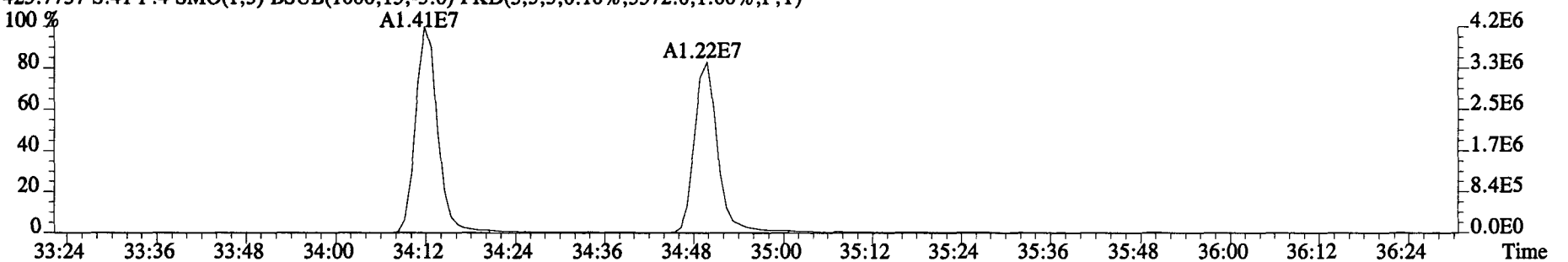




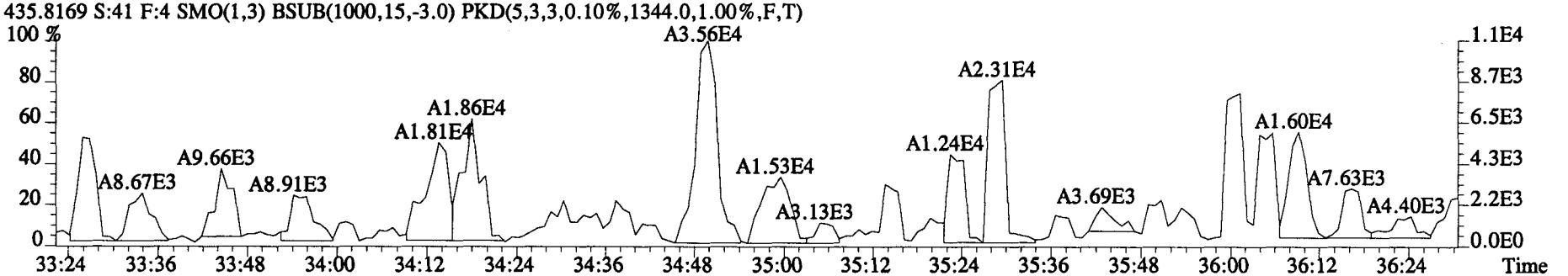
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
423.7766 S:41 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5556.0,1.00%,F,T)



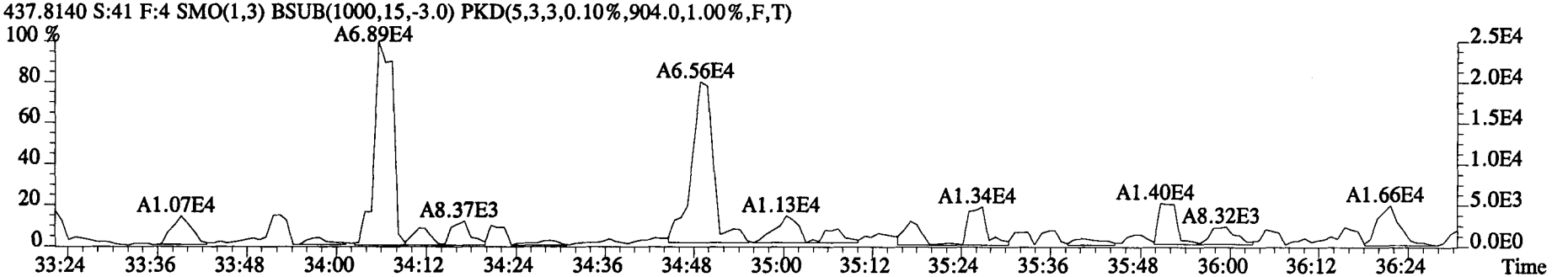
425.7737 S:41 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3572.0,1.00%,F,T)



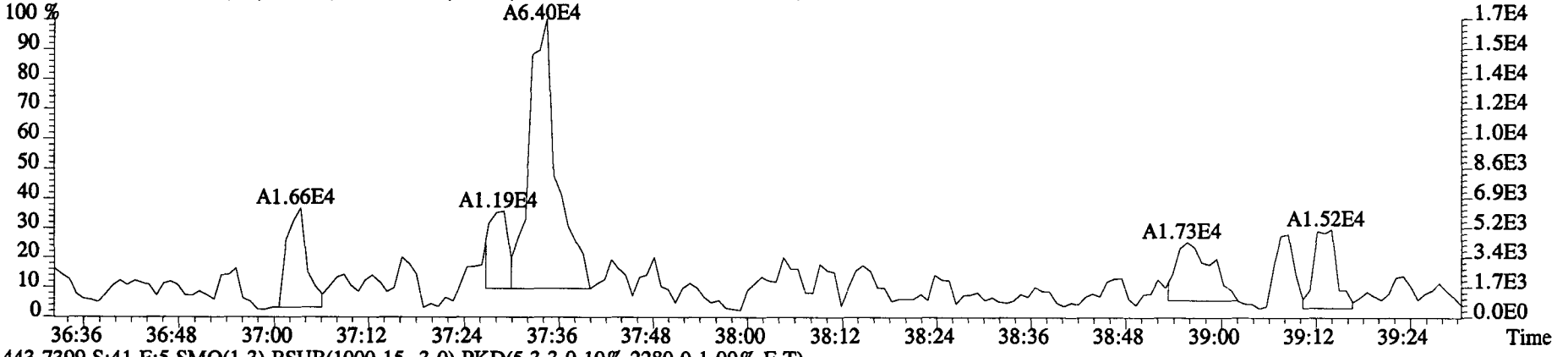
435.8169 S:41 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1344.0,1.00%,F,T)



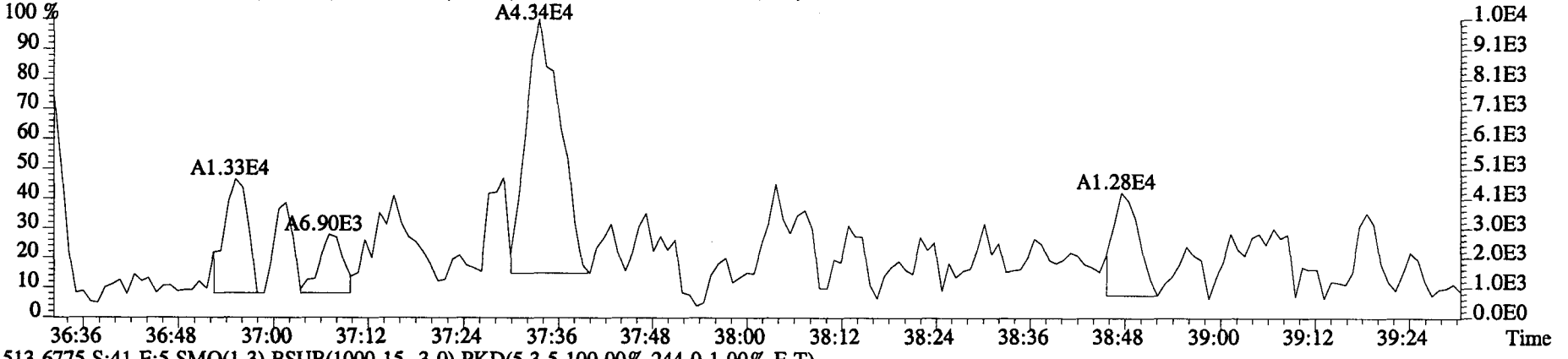
437.8140 S:41 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)



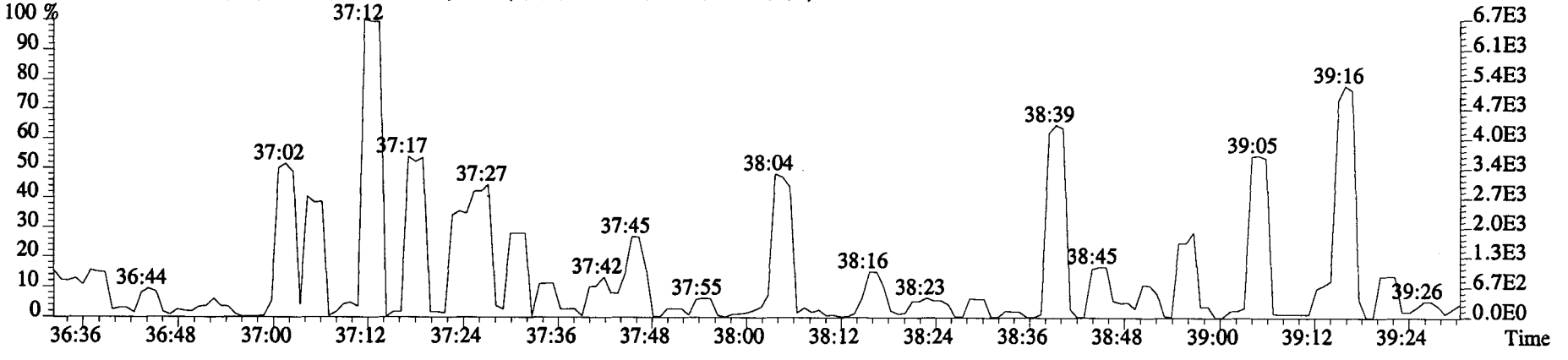
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
441.7428 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2280.0,1.00%,F,T)



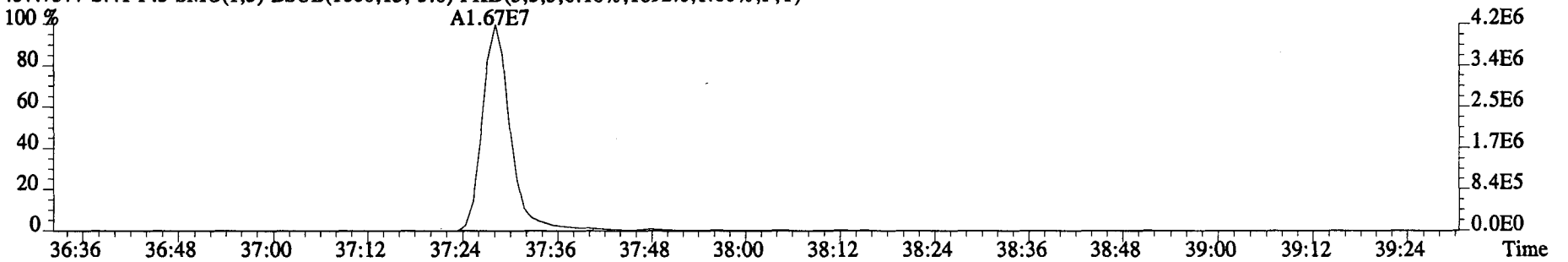
443.7399 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2280.0,1.00%,F,T)



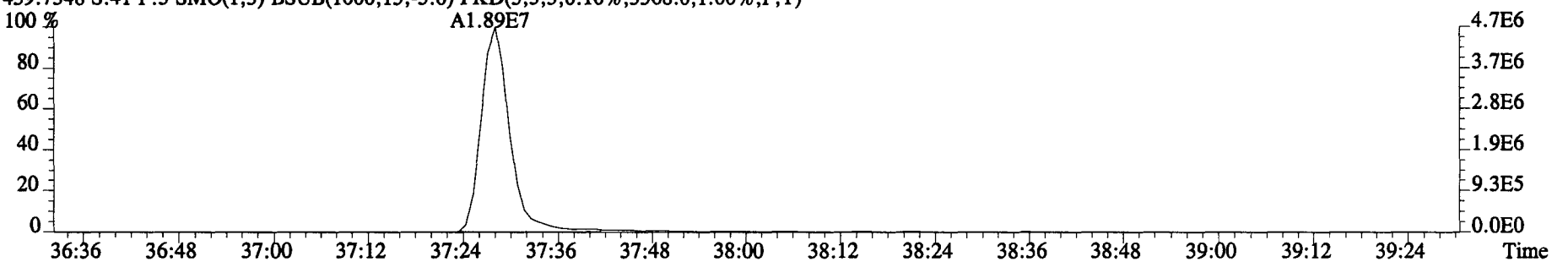
513.6775 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,244.0,1.00%,F,T)



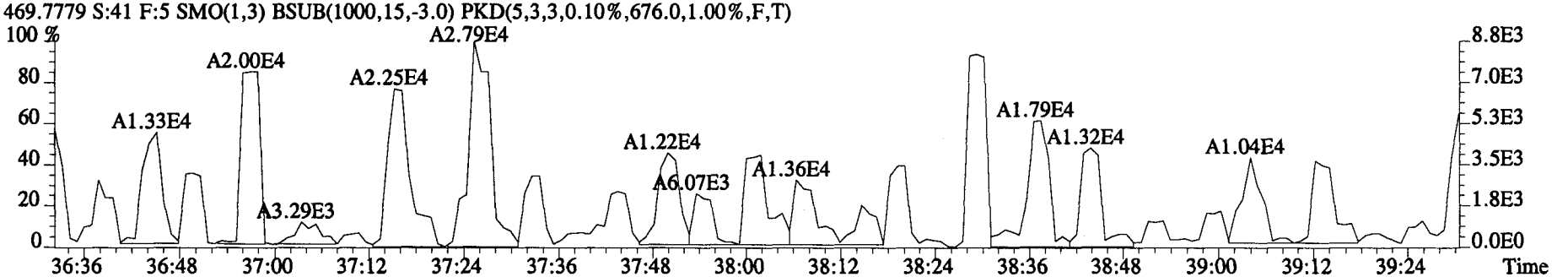
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
457.7377 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1892.0,1.00%,F,T)



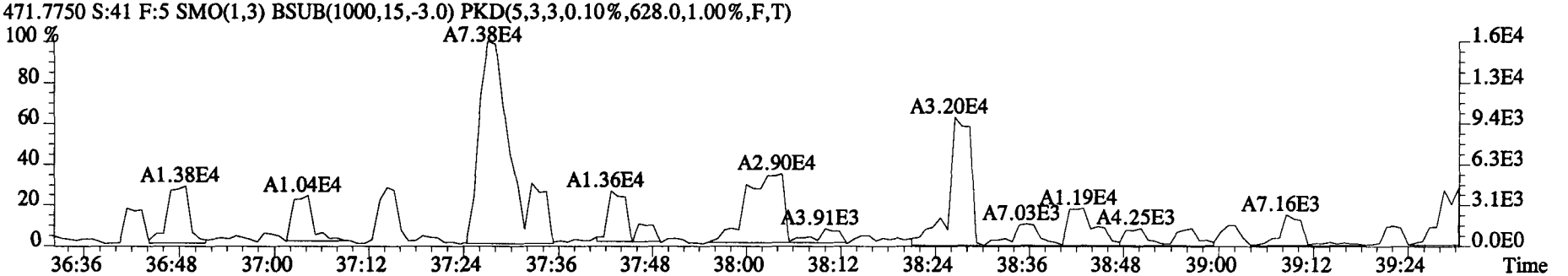
459.7348 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3368.0,1.00%,F,T)



469.7779 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)

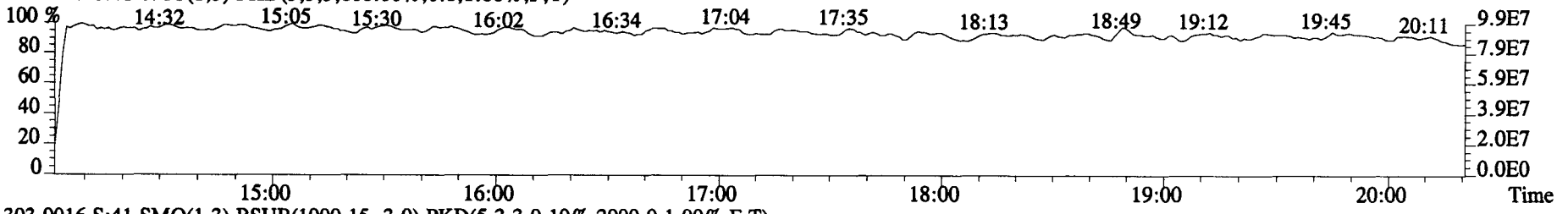


471.7750 S:41 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,628.0,1.00%,F,T)

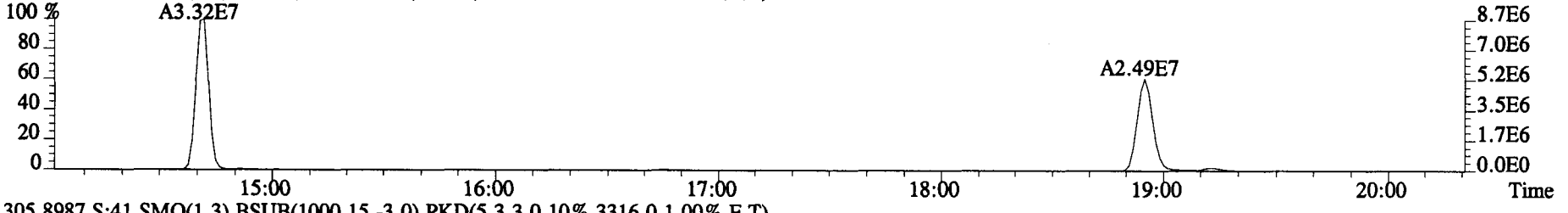


File:16AU10B1D5 #1-372 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

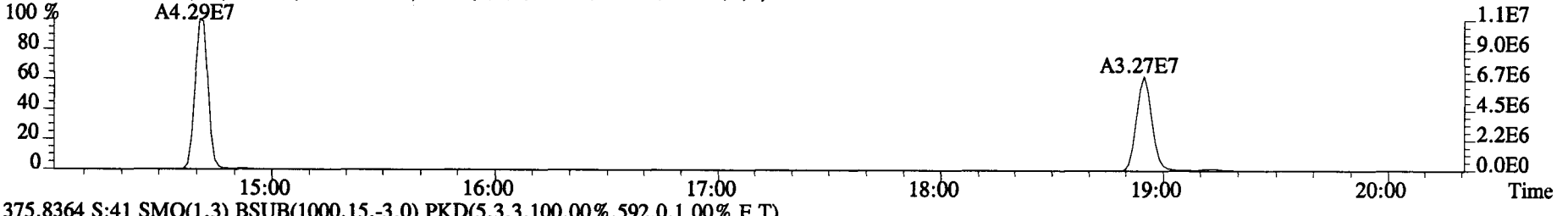
292.9825 S:41 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



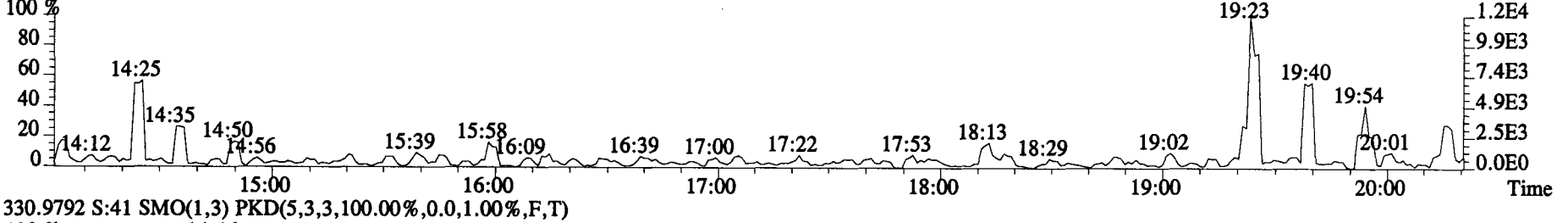
303.9016 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2900.0,1.00%,F,T)



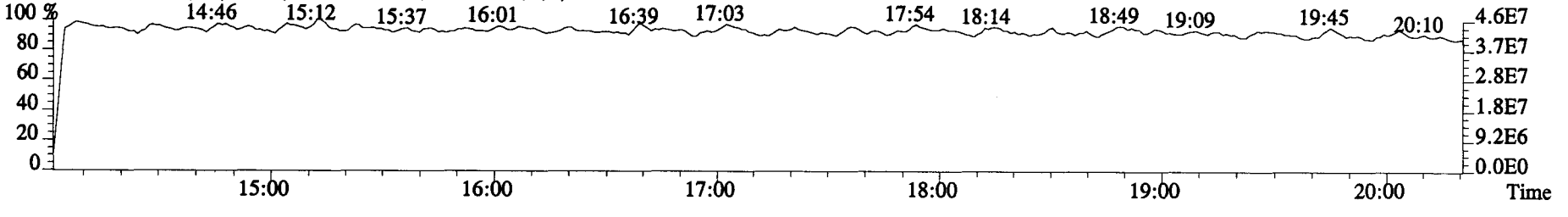
305.8987 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3316.0,1.00%,F,T)



375.8364 S:41 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,592.0,1.00%,F,T)

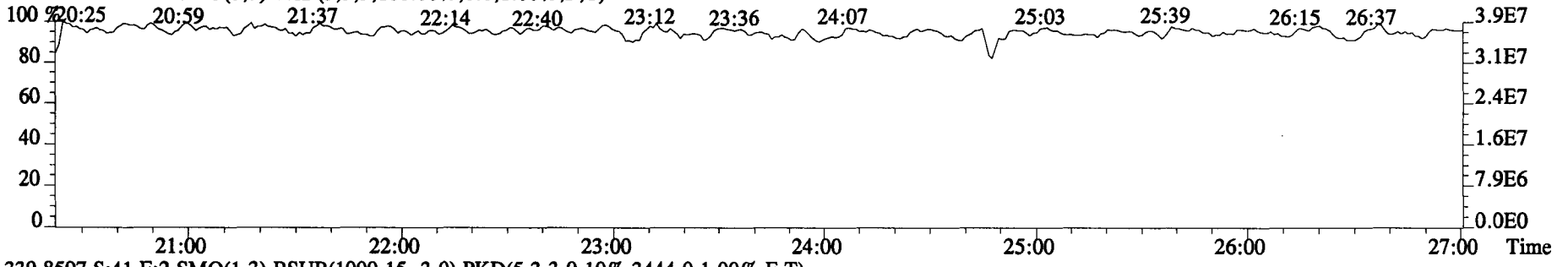


330.9792 S:41 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

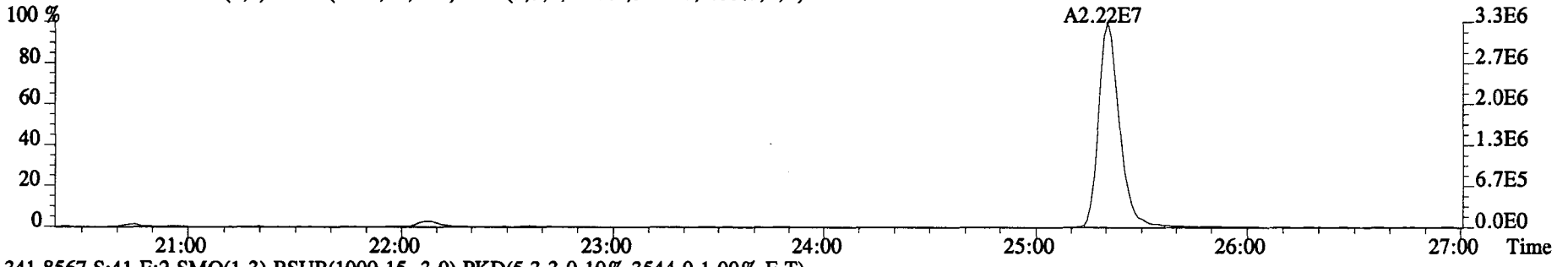


File:16AU10B1D5 #1-414 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES

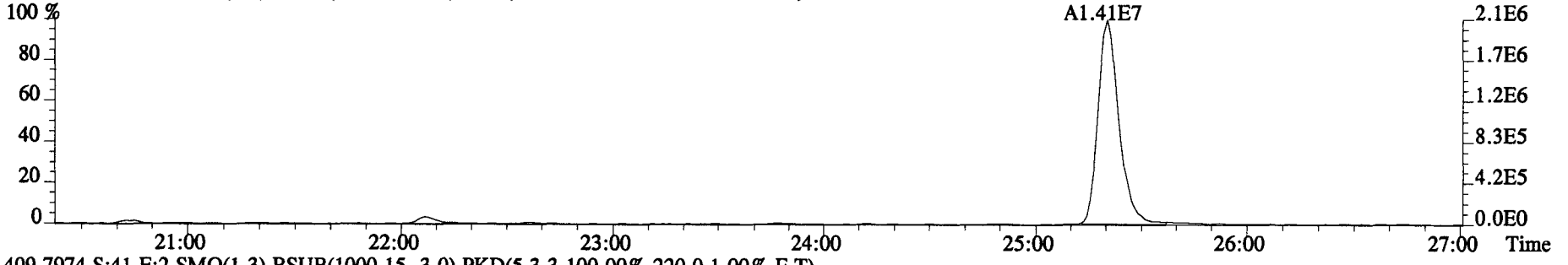
342.9792 S:41 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



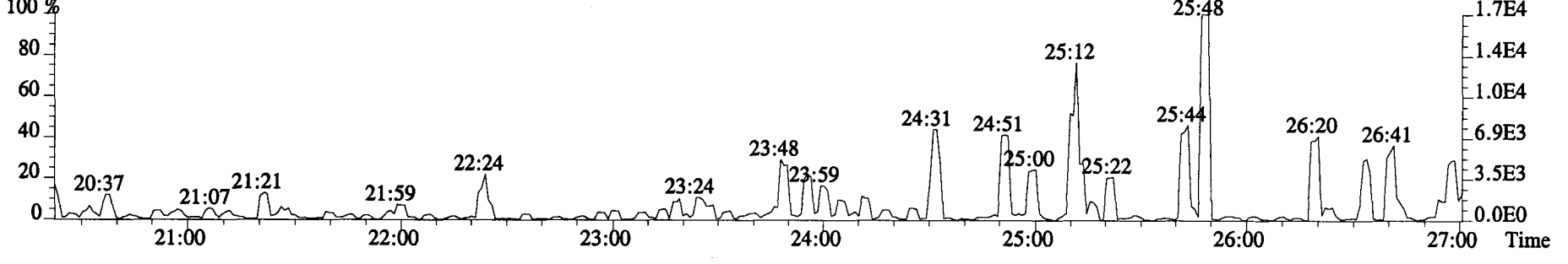
339.8597 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3444.0,1.00%,F,T)



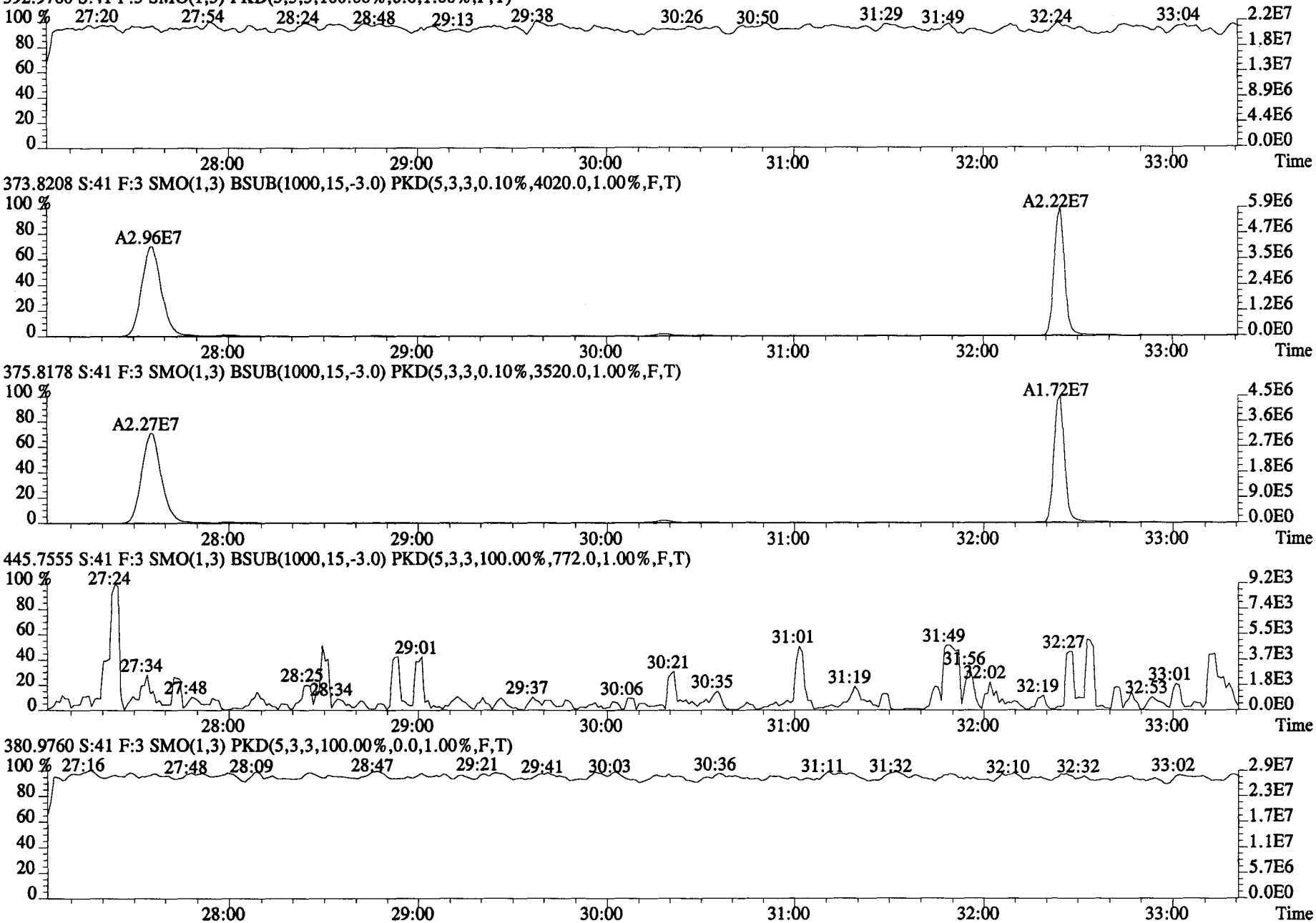
341.8567 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3544.0,1.00%,F,T)



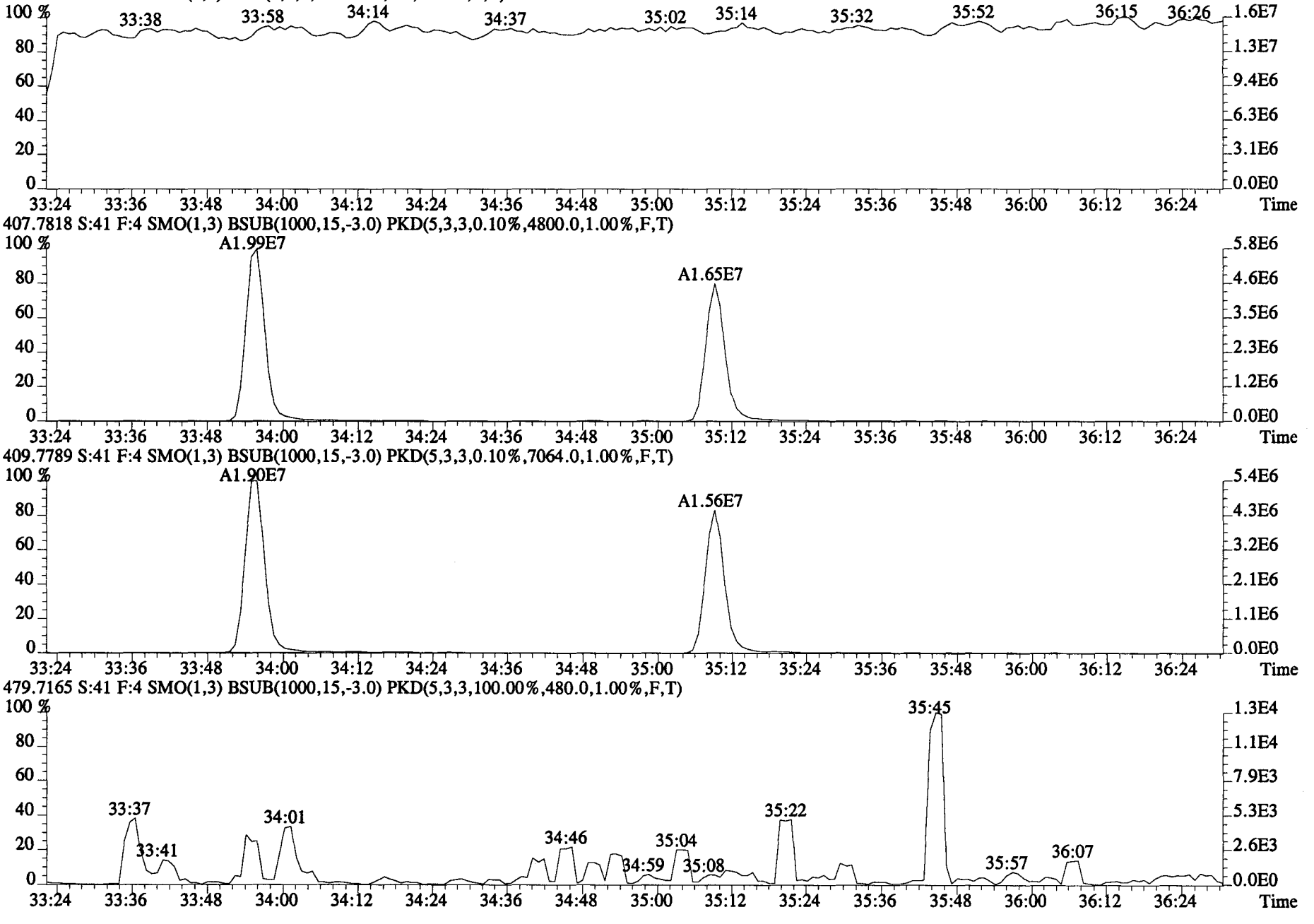
409.7974 S:41 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,220.0,1.00%,F,T)



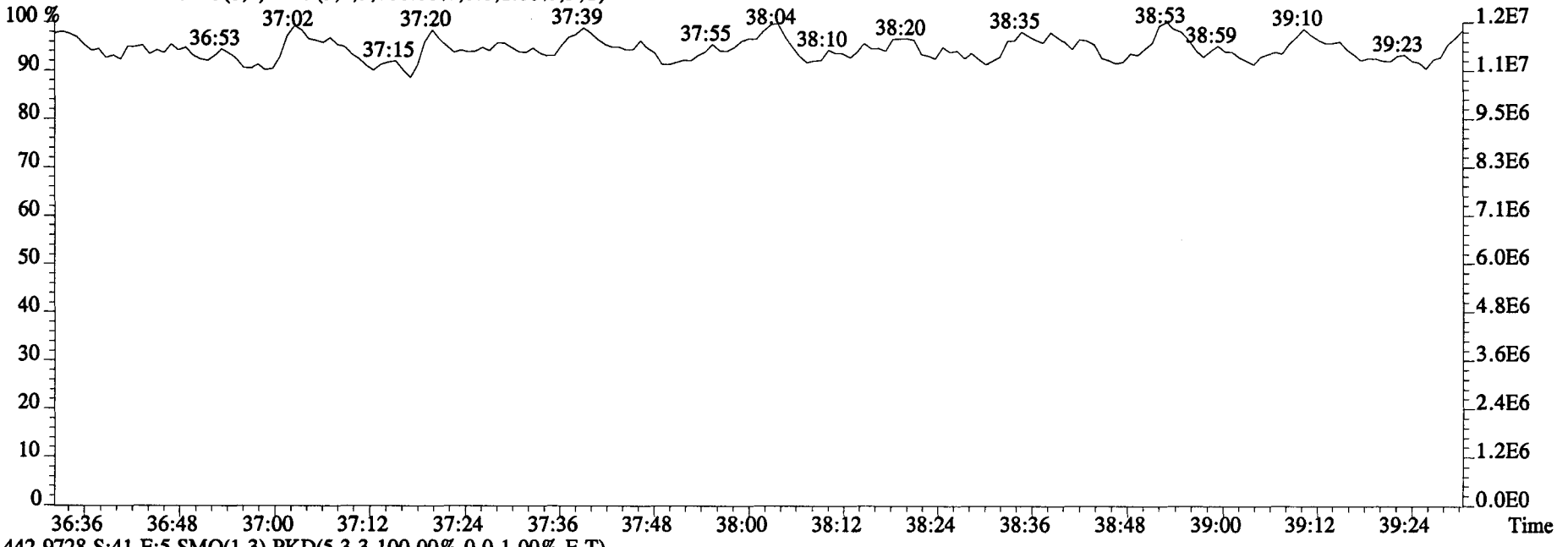
File:16AU10B1D5 #1-406 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES



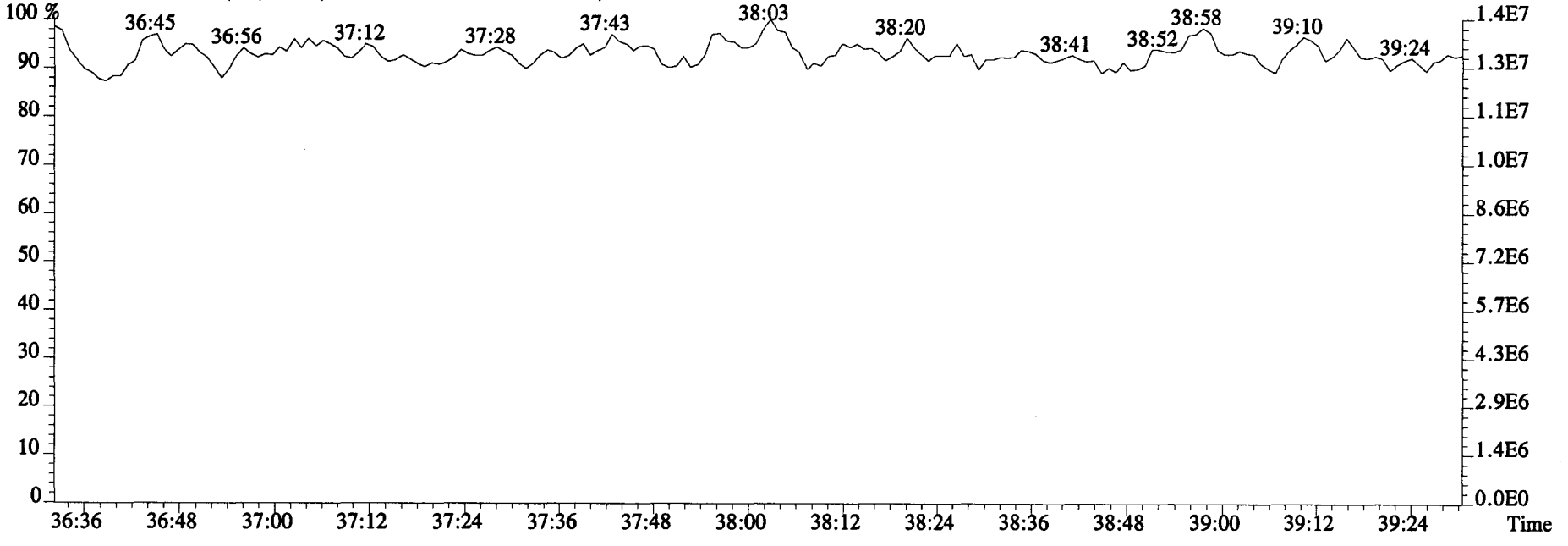
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES



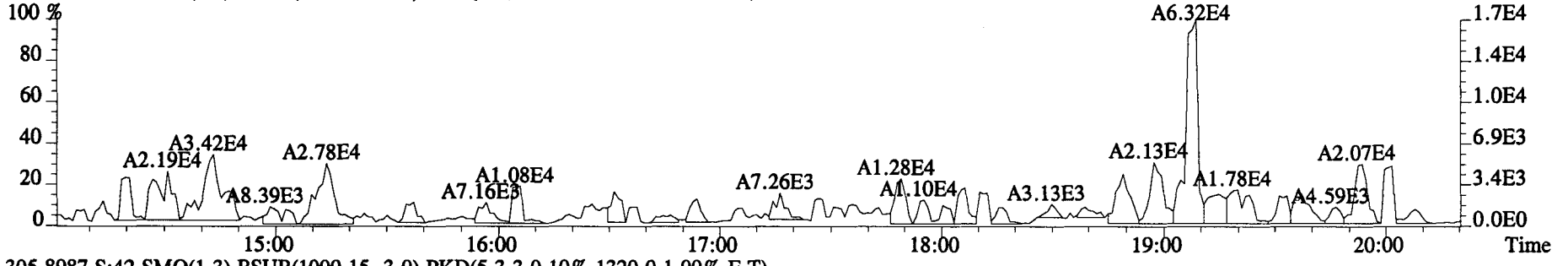
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 21:30:24 GC EI+ Voltage SIR 70SE
Sample#41 Text:CP0816C :DB-5 CPSM 3732-07 Exp:DIOXINRES
454.9728 S:41 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



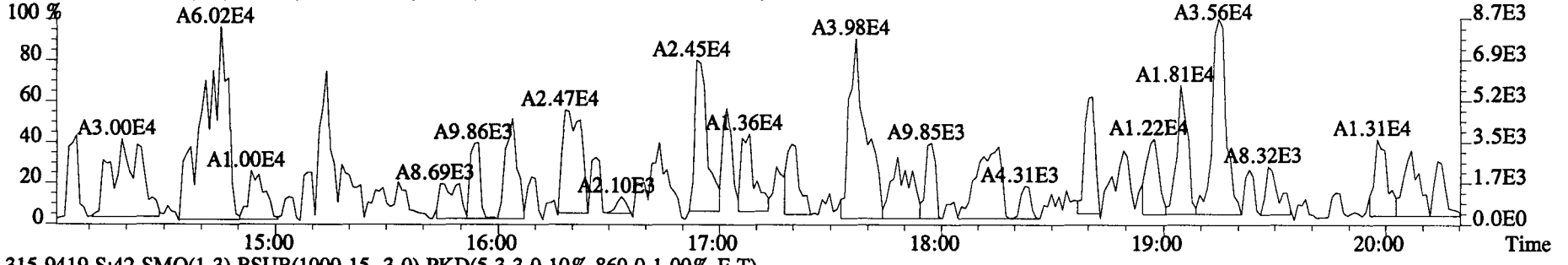
442.9728 S:41 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



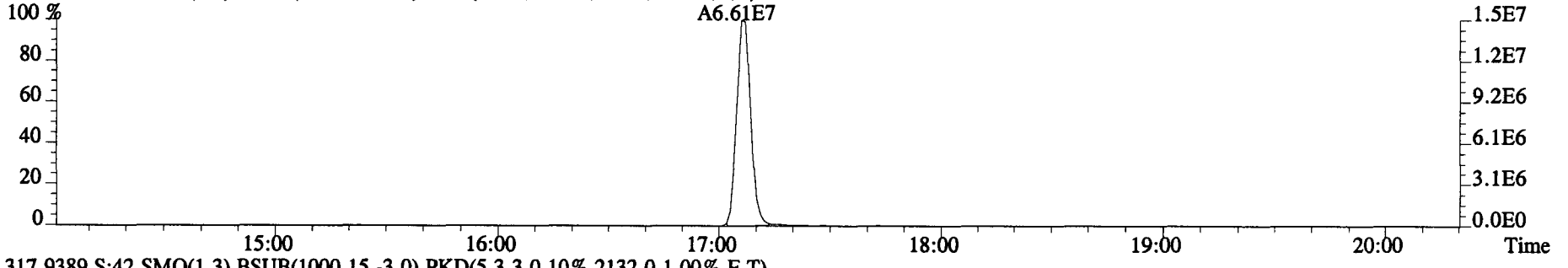
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
303.9016 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)



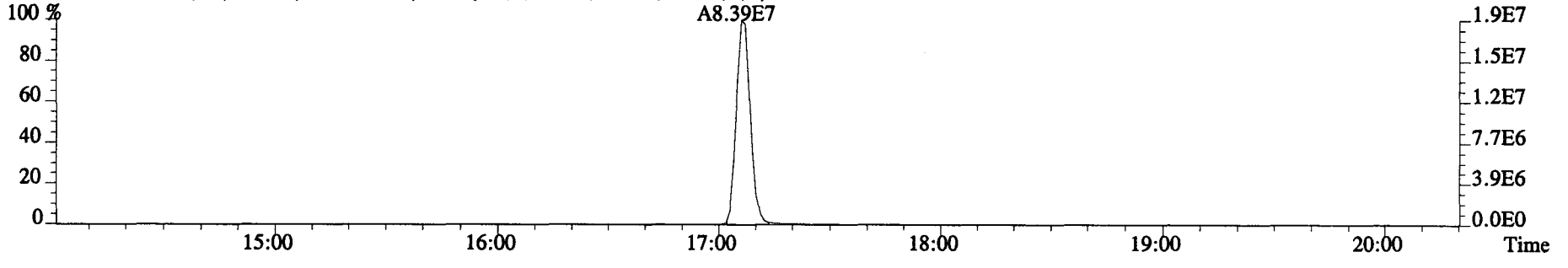
305.8987 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)



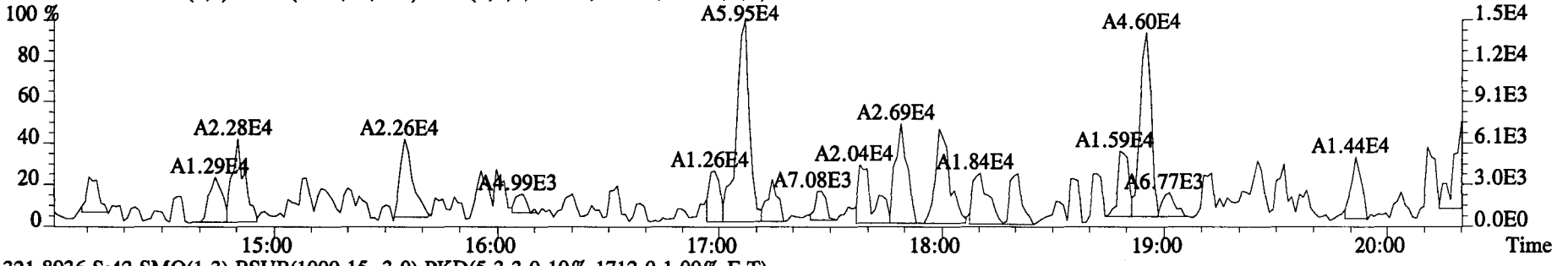
315.9419 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860.0,1.00%,F,T)



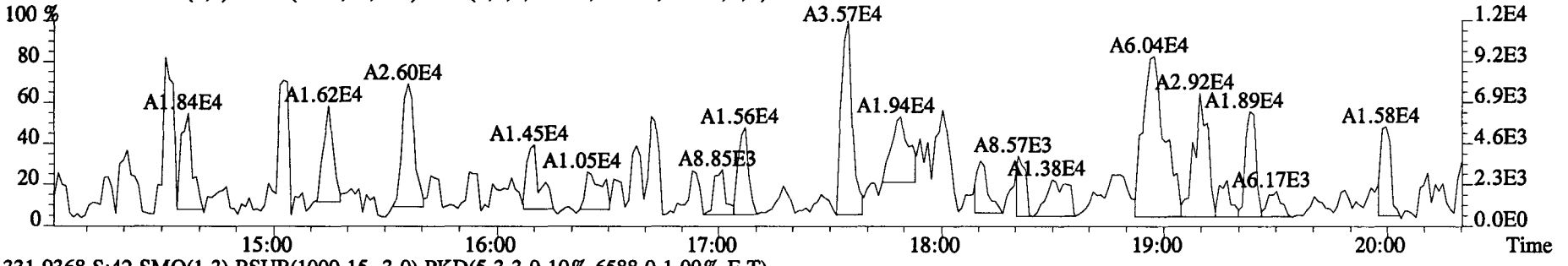
317.9389 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2132.0,1.00%,F,T)



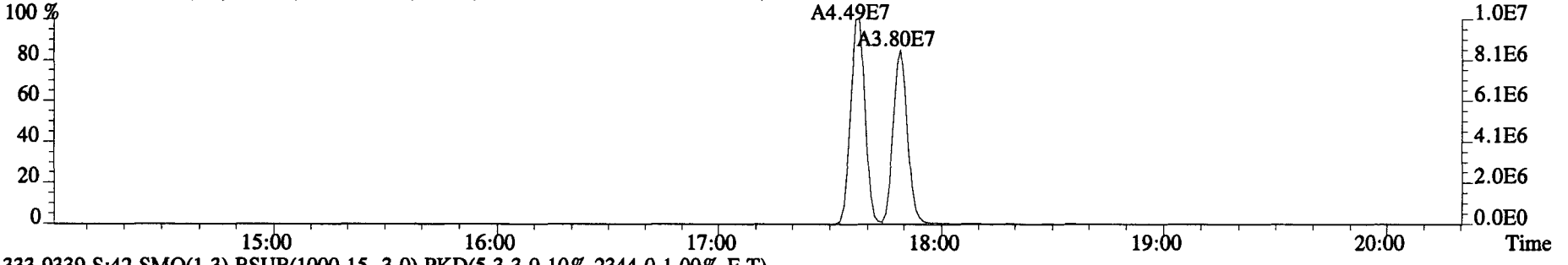
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
319.8965 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1800.0,1.00%,F,T)



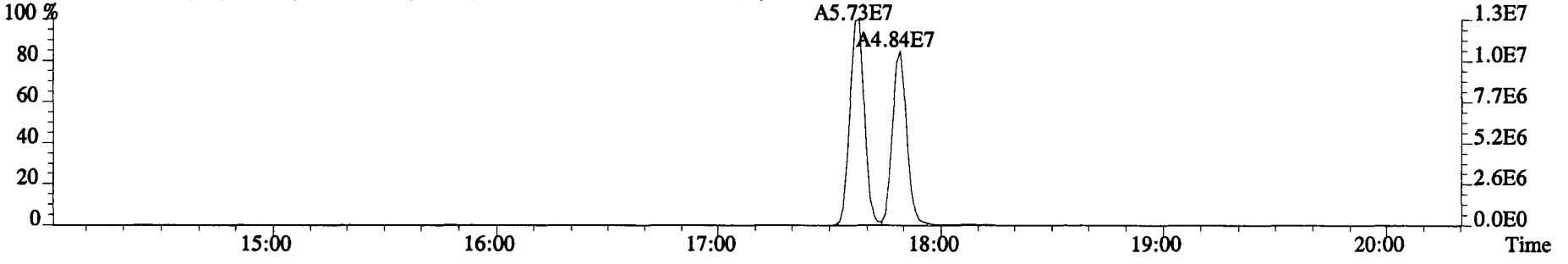
321.8936 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1712.0,1.00%,F,T)



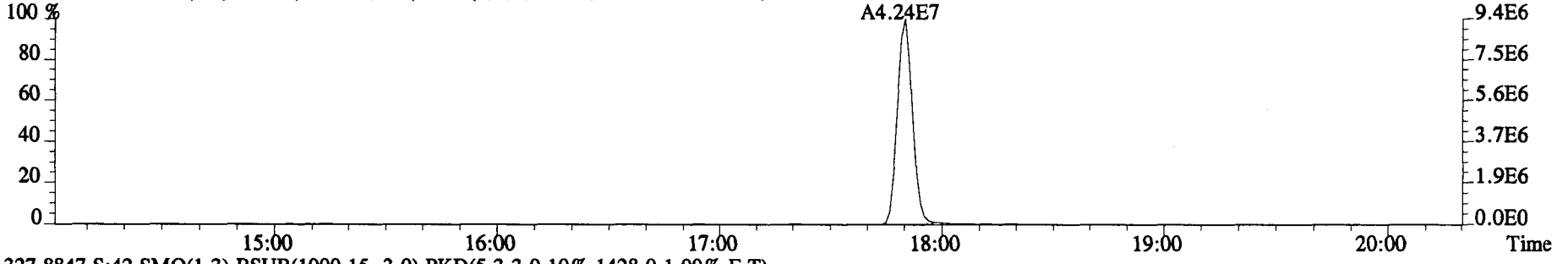
331.9368 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6588.0,1.00%,F,T)



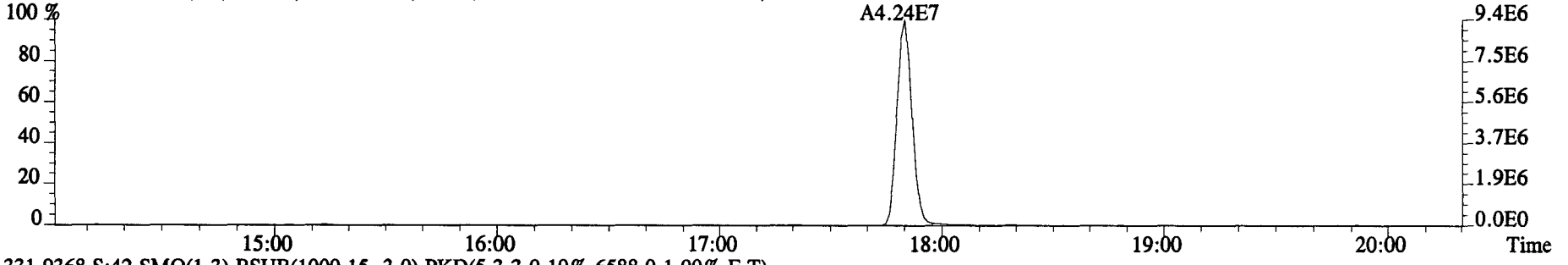
333.9339 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2344.0,1.00%,F,T)



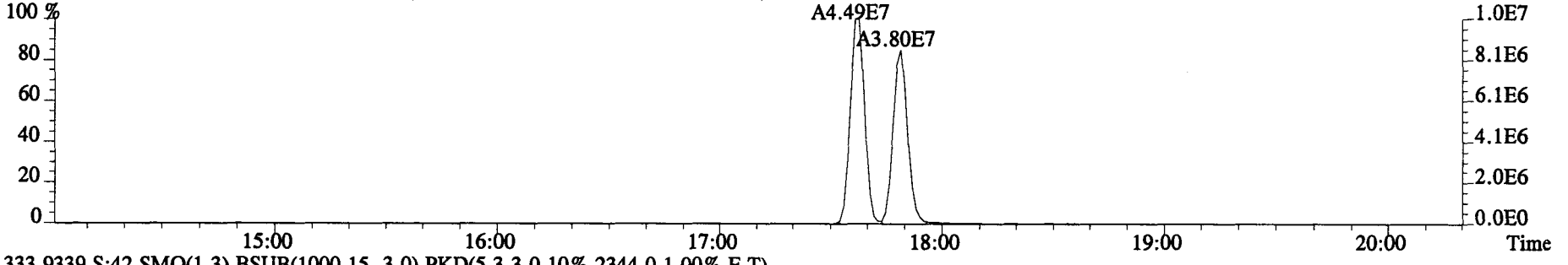
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
327.8847 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1428.0,1.00%,F,T)



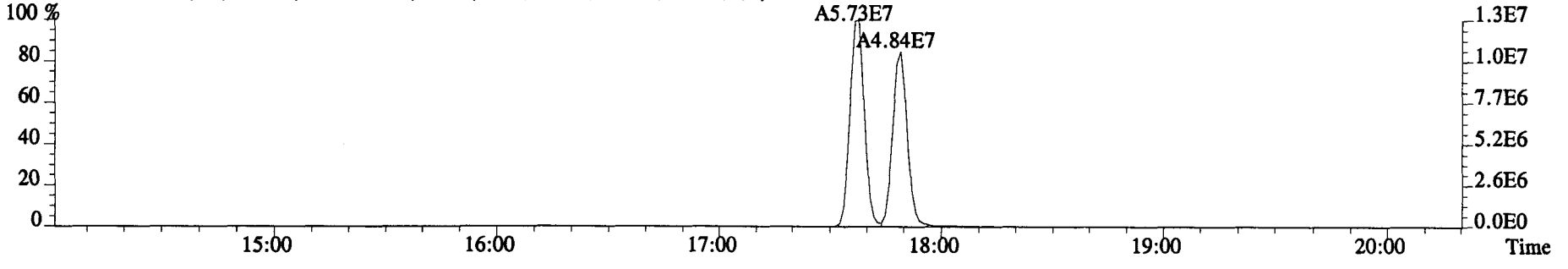
327.8847 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1428.0,1.00%,F,T)



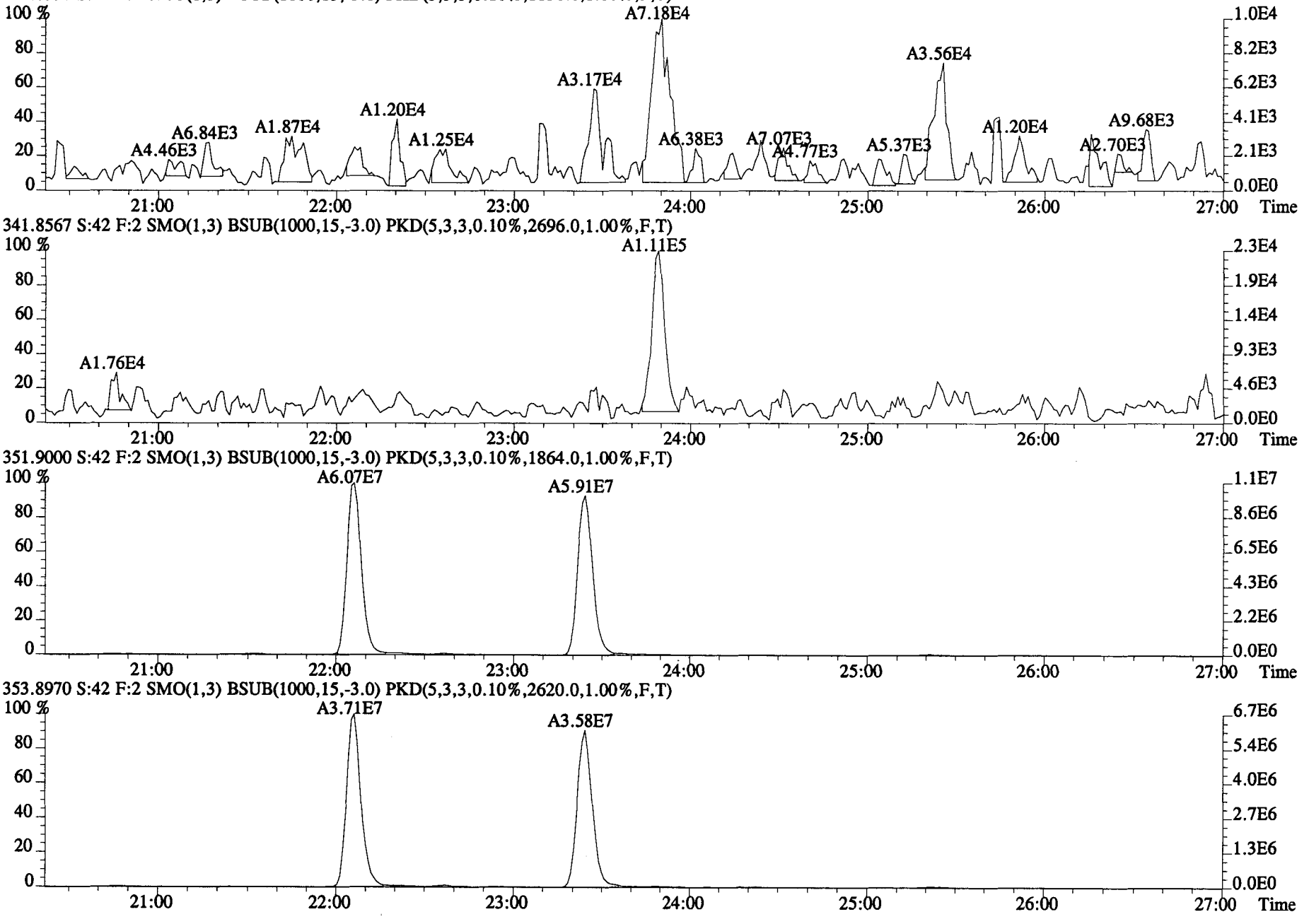
331.9368 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6588.0,1.00%,F,T)



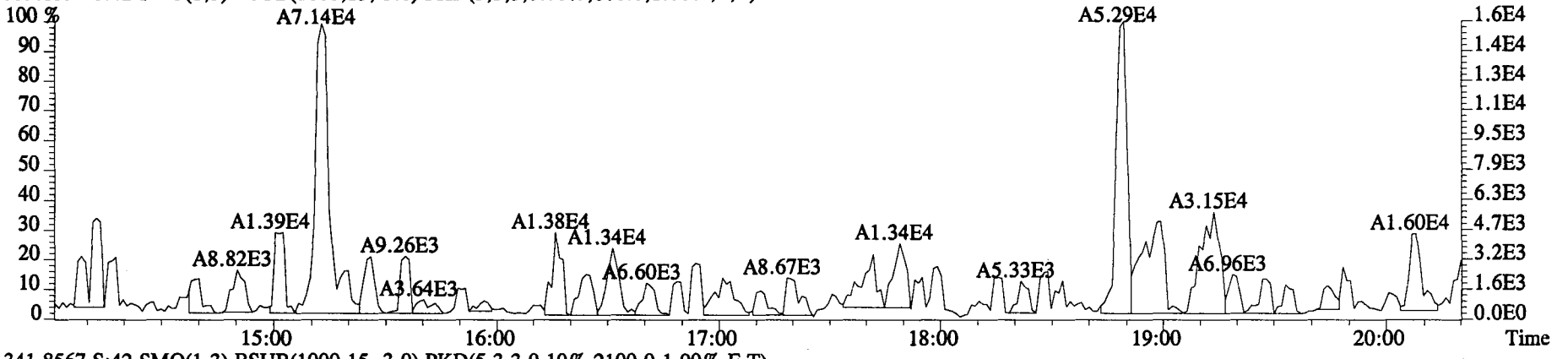
333.9339 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2344.0,1.00%,F,T)



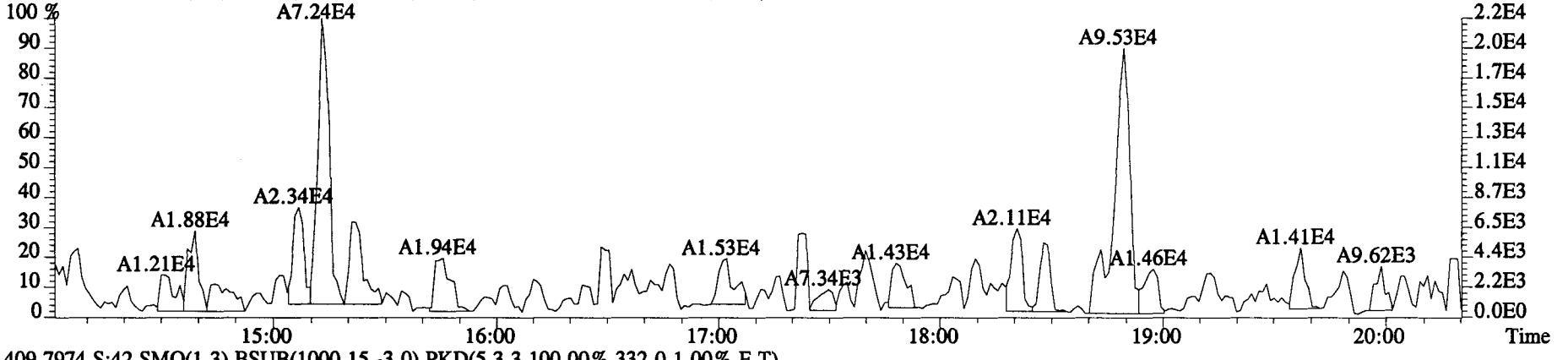
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES



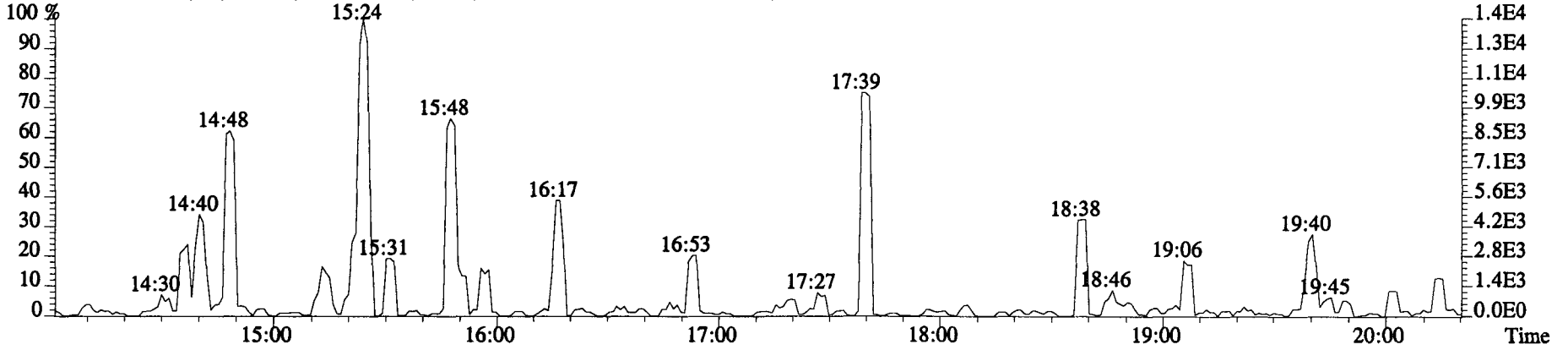
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
339.8597 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



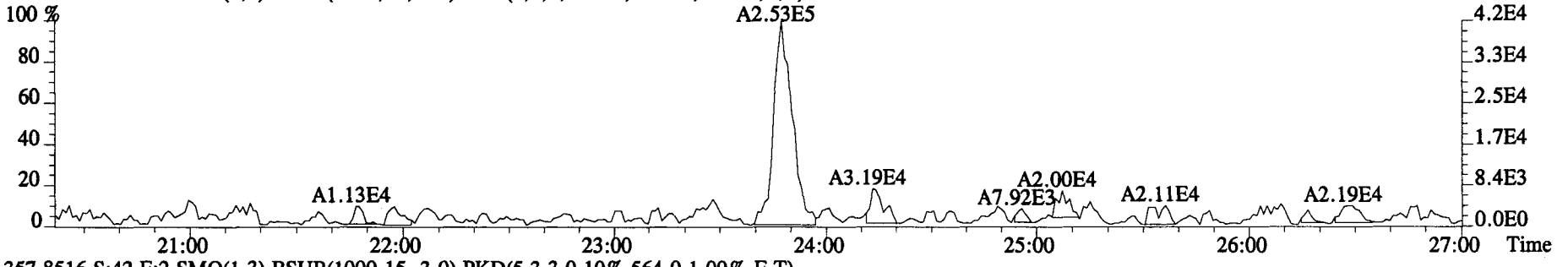
341.8567 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2100.0,1.00%,F,T)



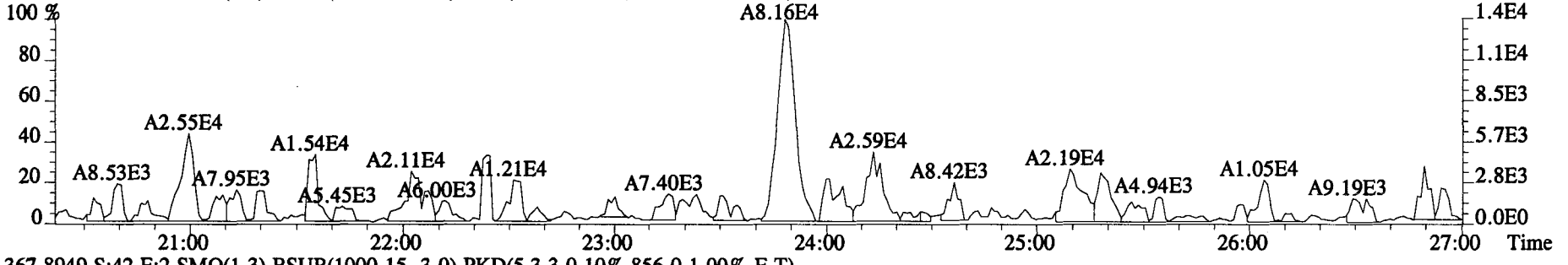
409.7974 S:42 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,332.0,1.00%,F,T)



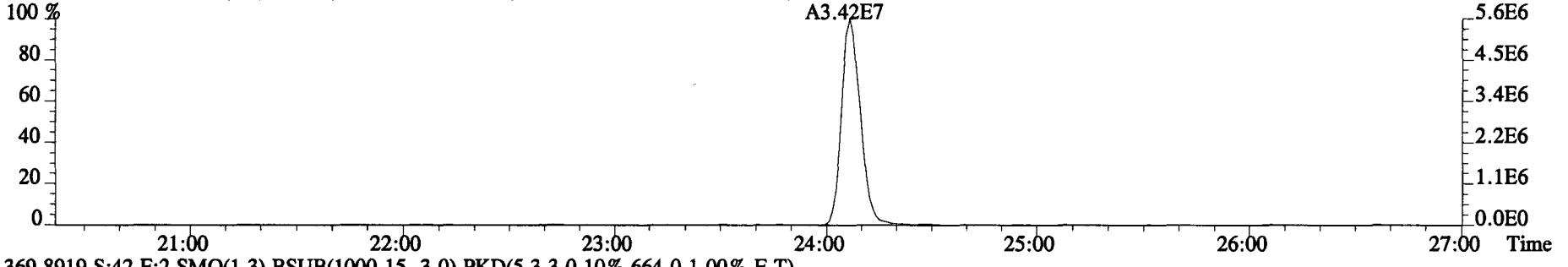
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
355.8546 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2220.0,1.00%,F,T)



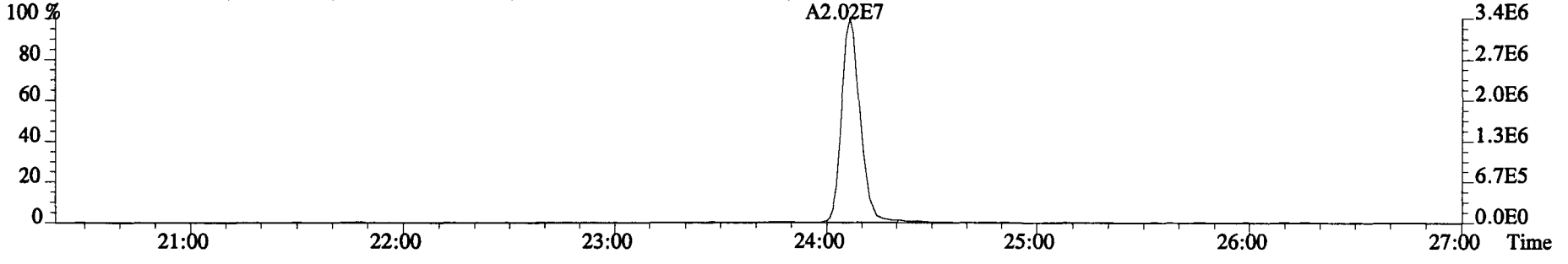
357.8516 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,564.0,1.00%,F,T)



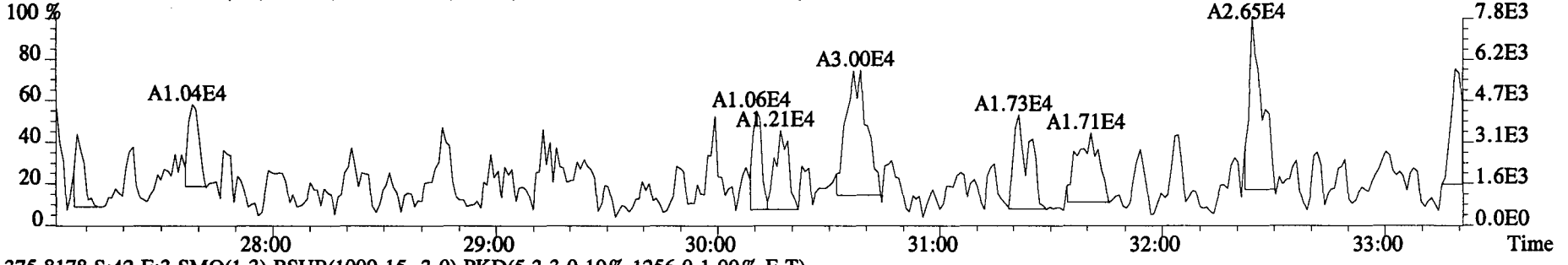
367.8949 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,856.0,1.00%,F,T)



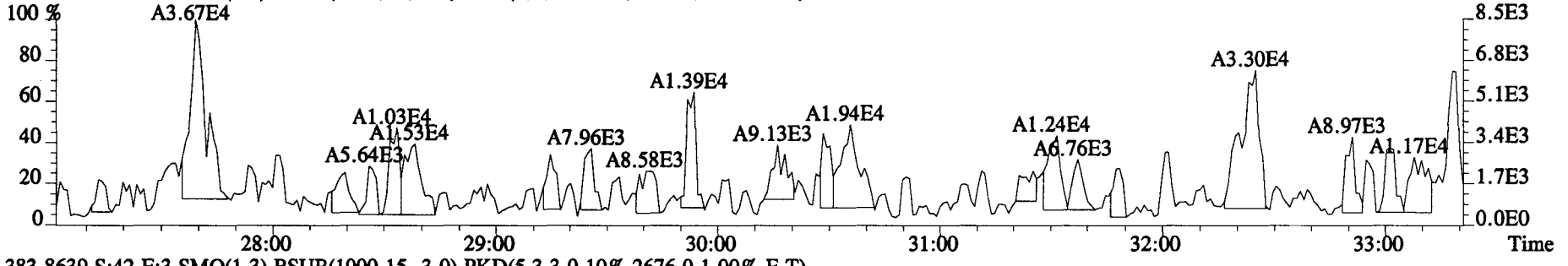
369.8919 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



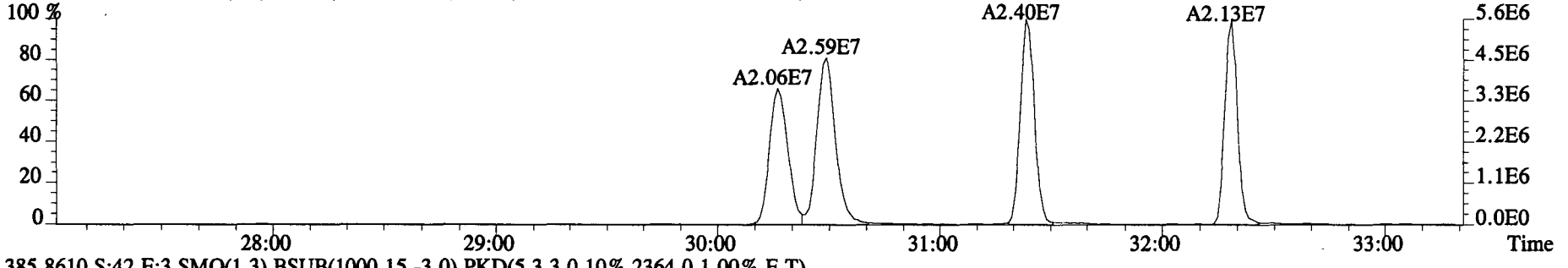
File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
373.8208 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)



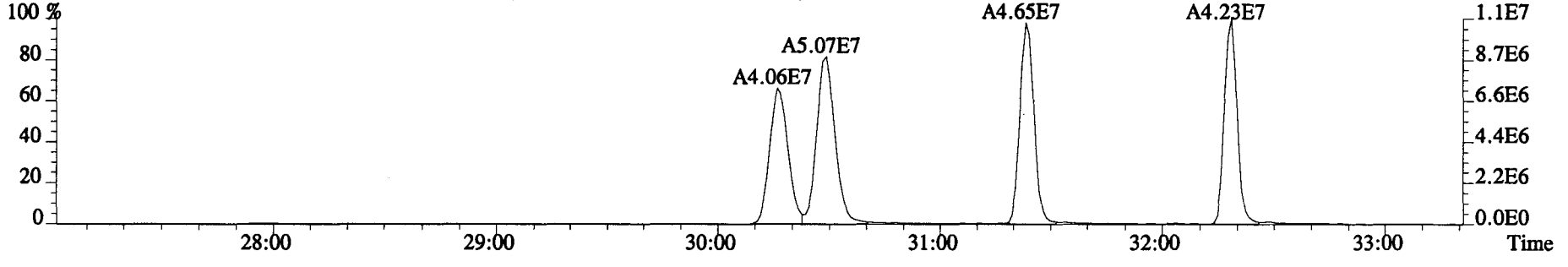
375.8178 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)



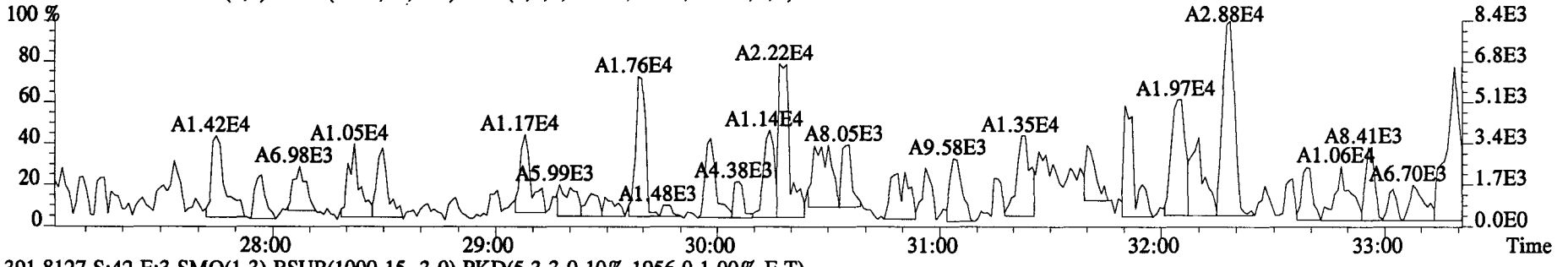
383.8639 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2676.0,1.00%,F,T)

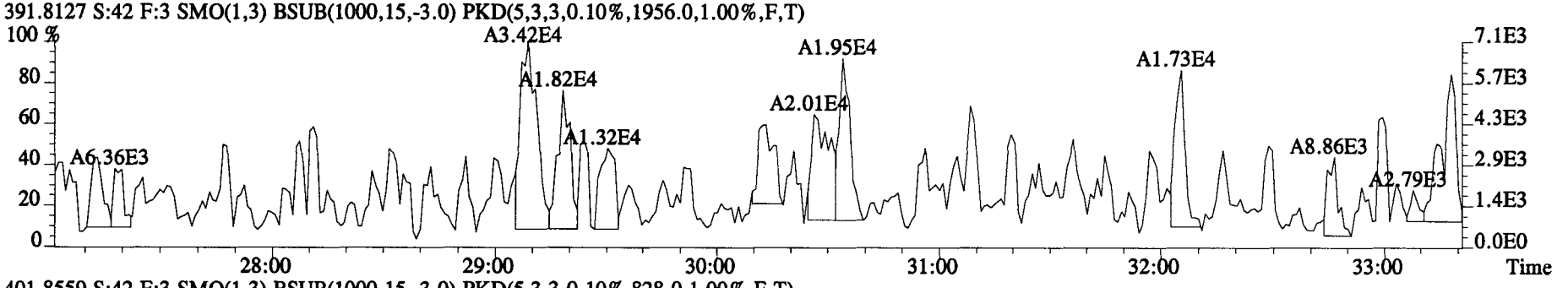


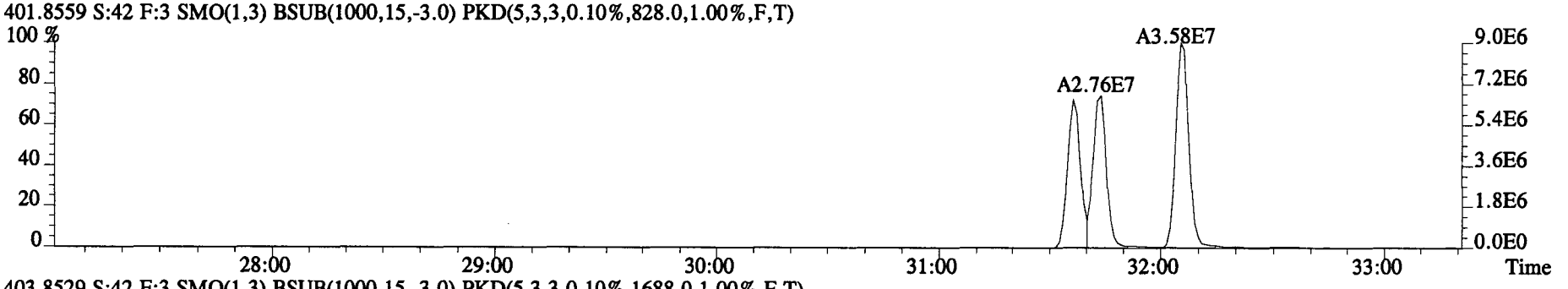
385.8610 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2364.0,1.00%,F,T)

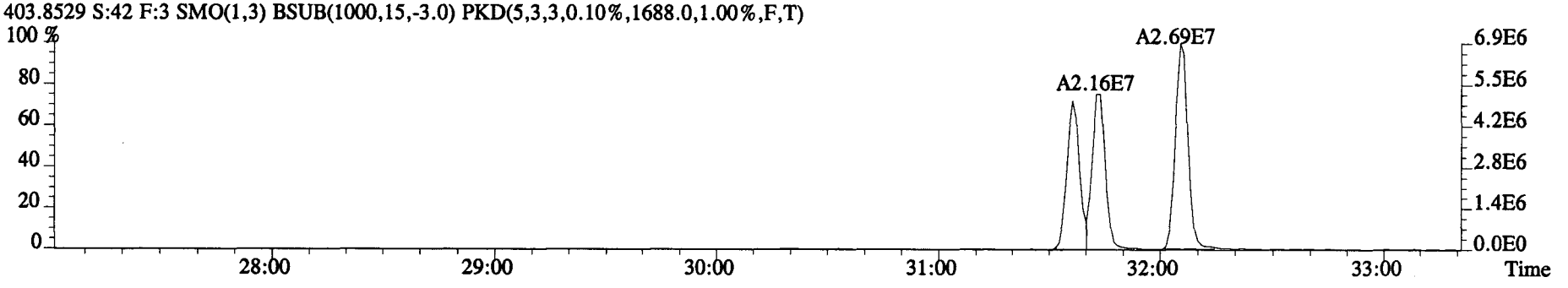


File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES

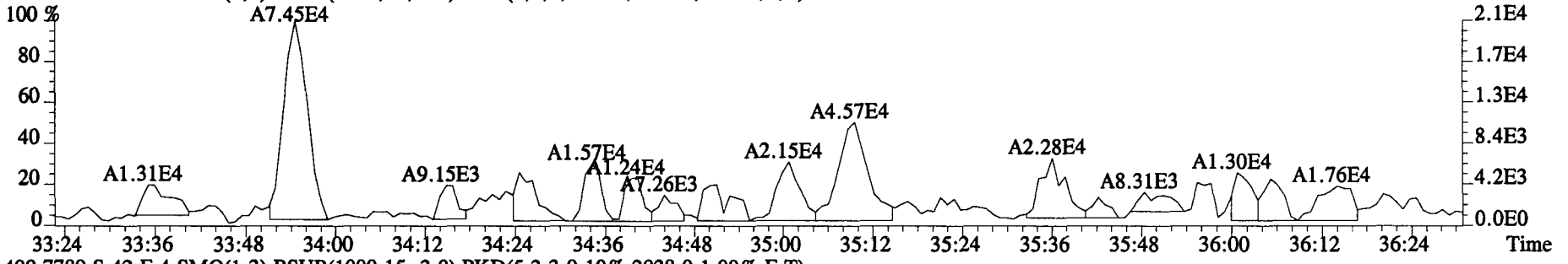




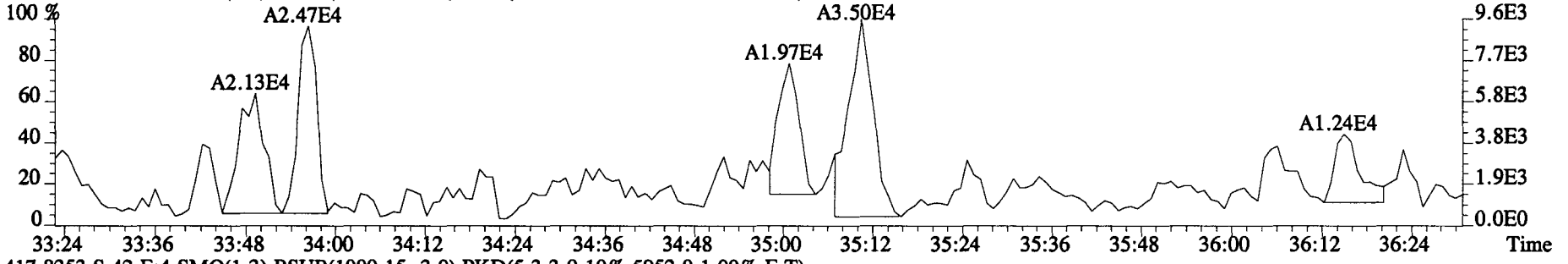




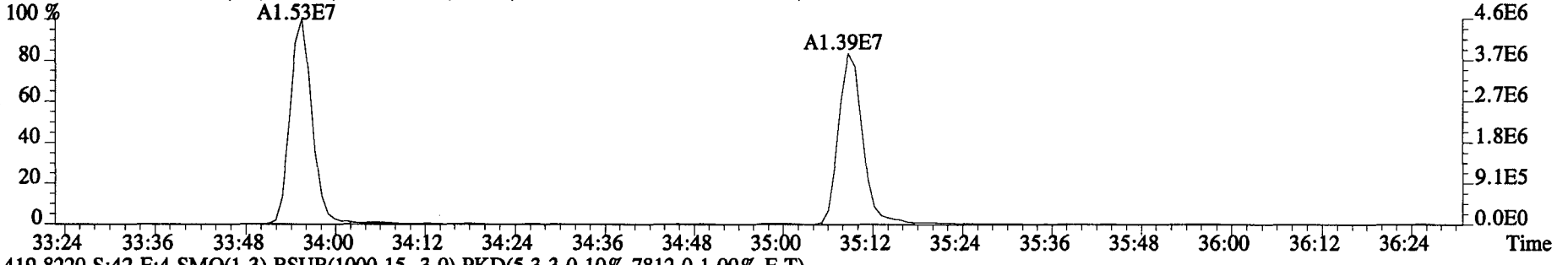
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
407.7818 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



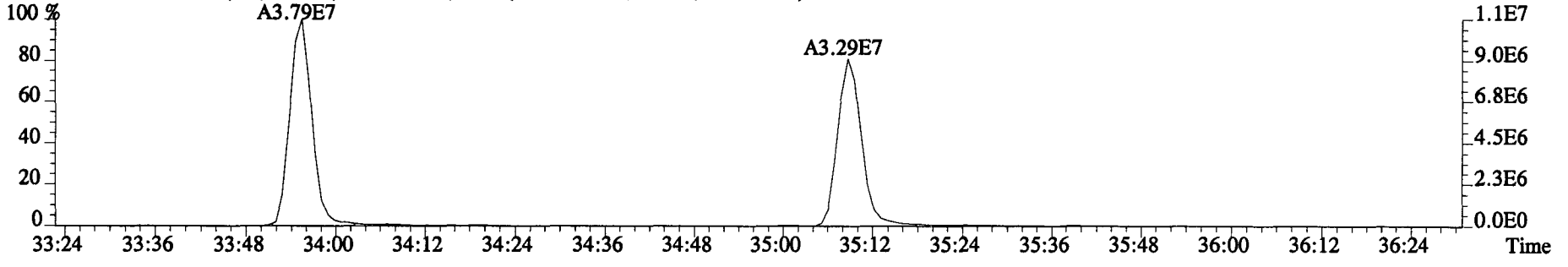
409.7789 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



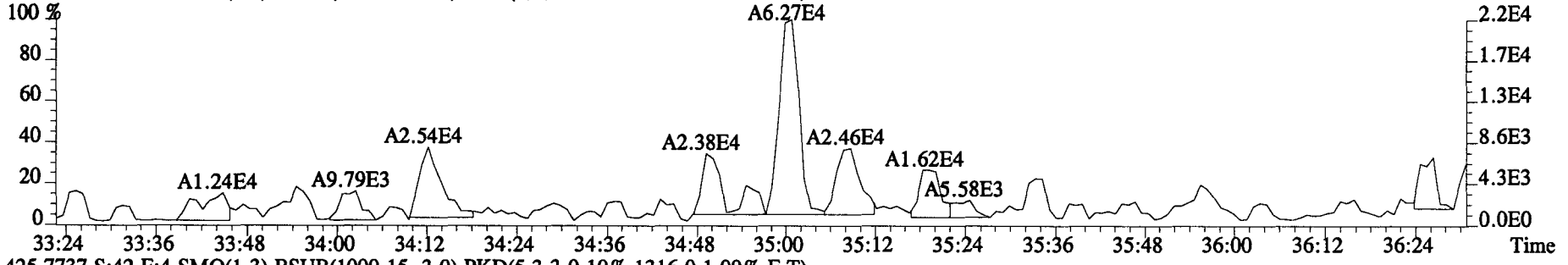
417.8253 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5952.0,1.00%,F,T)



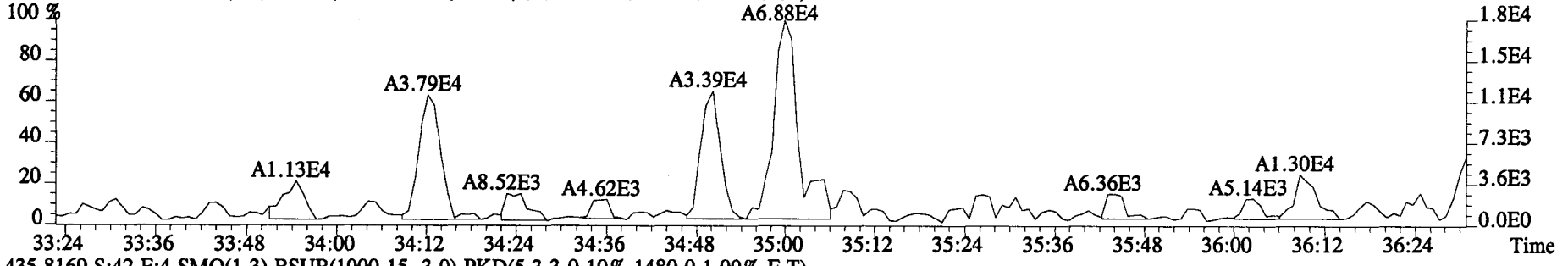
419.8220 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7812.0,1.00%,F,T)



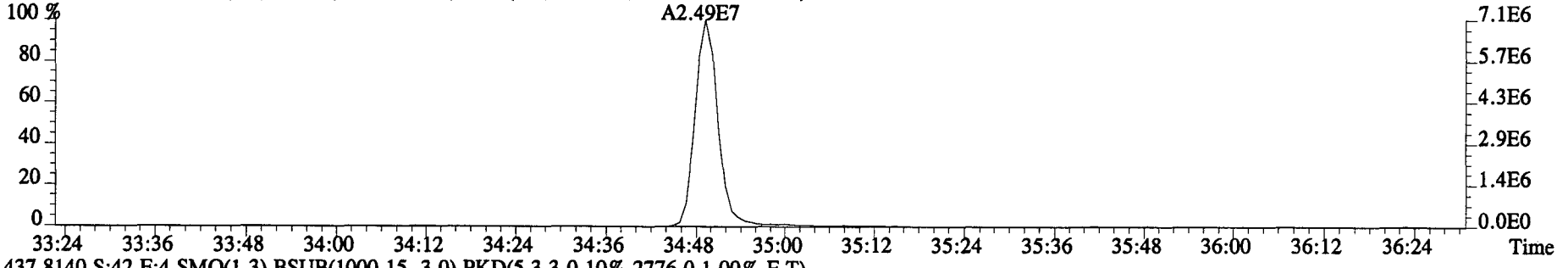
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
423.7766 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2000.0,1.00%,F,T)



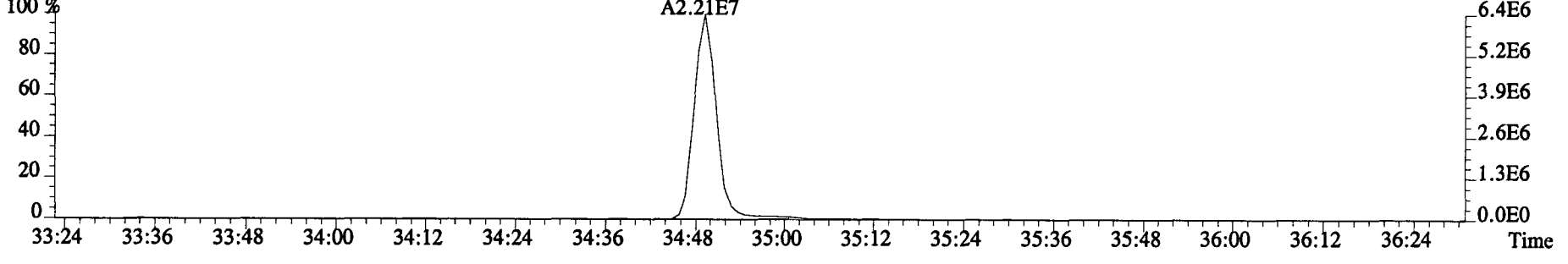
425.7737 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)



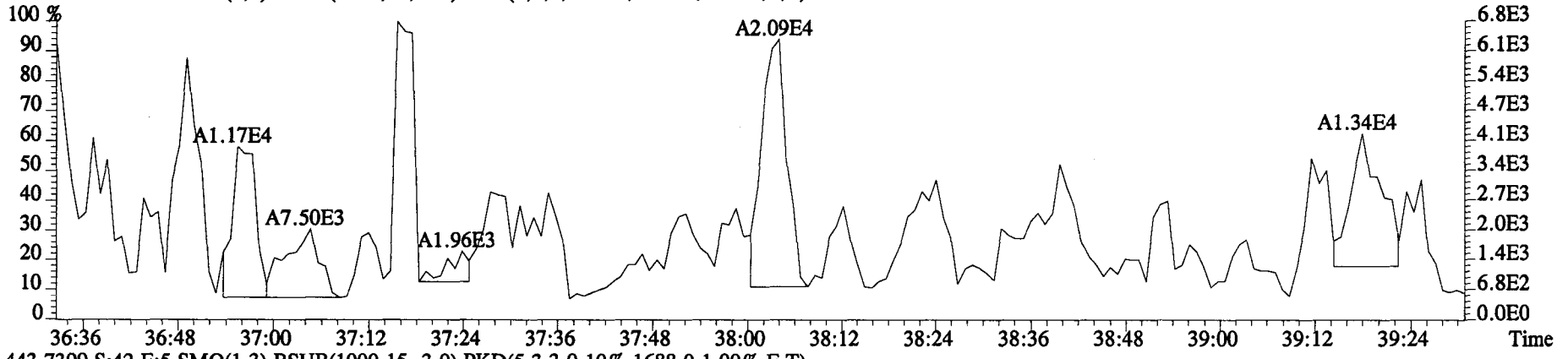
435.8169 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1480.0,1.00%,F,T)



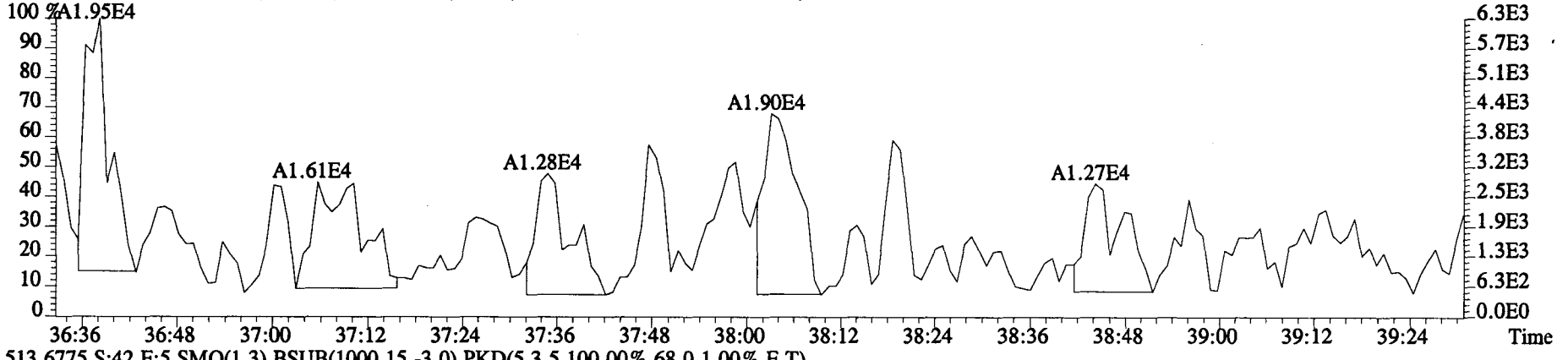
437.8140 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2776.0,1.00%,F,T)



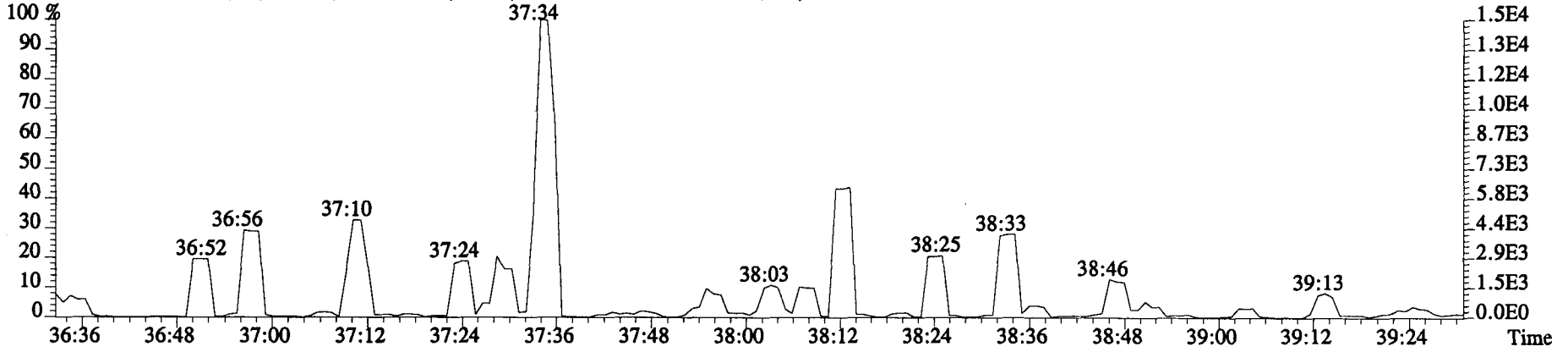
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
441.7428 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1924.0,1.00%,F,T)



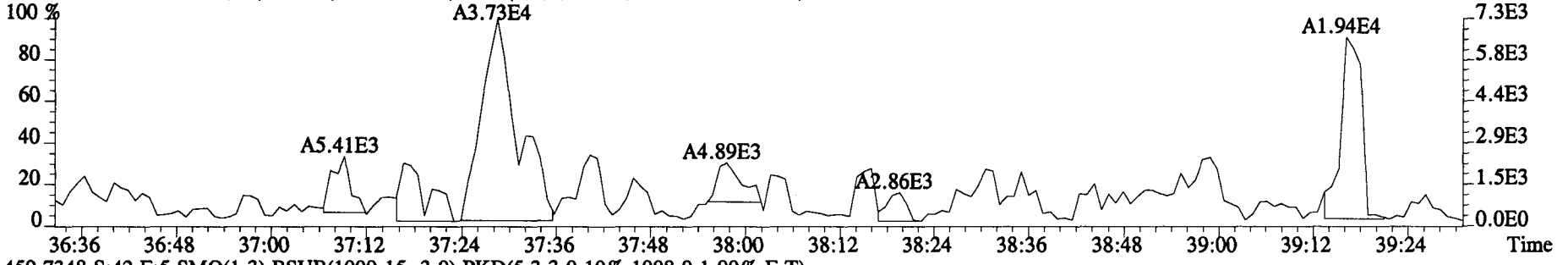
443.7399 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1688.0,1.00%,F,T)



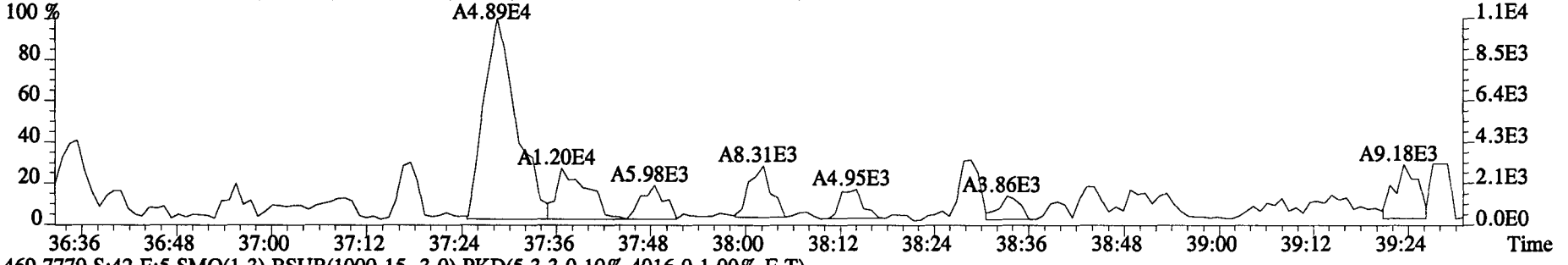
513.6775 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,68.0,1.00%,F,T)



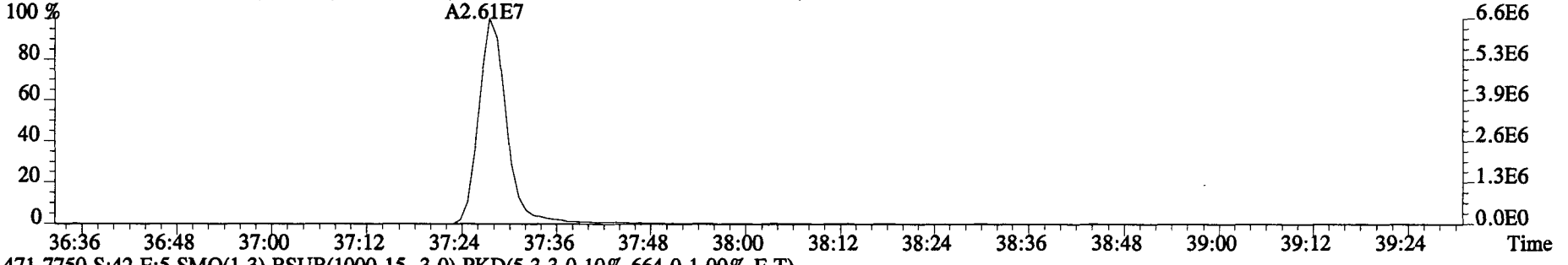
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
457.7377 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1440.0,1.00%,F,T)



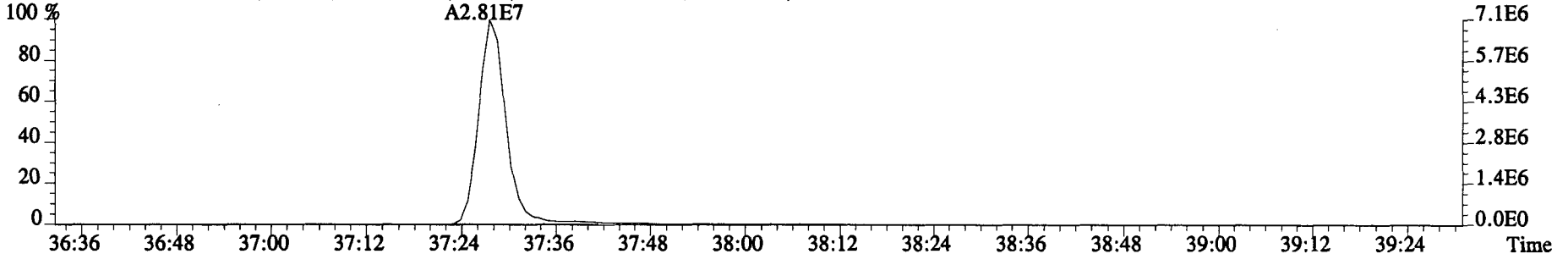
459.7348 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)



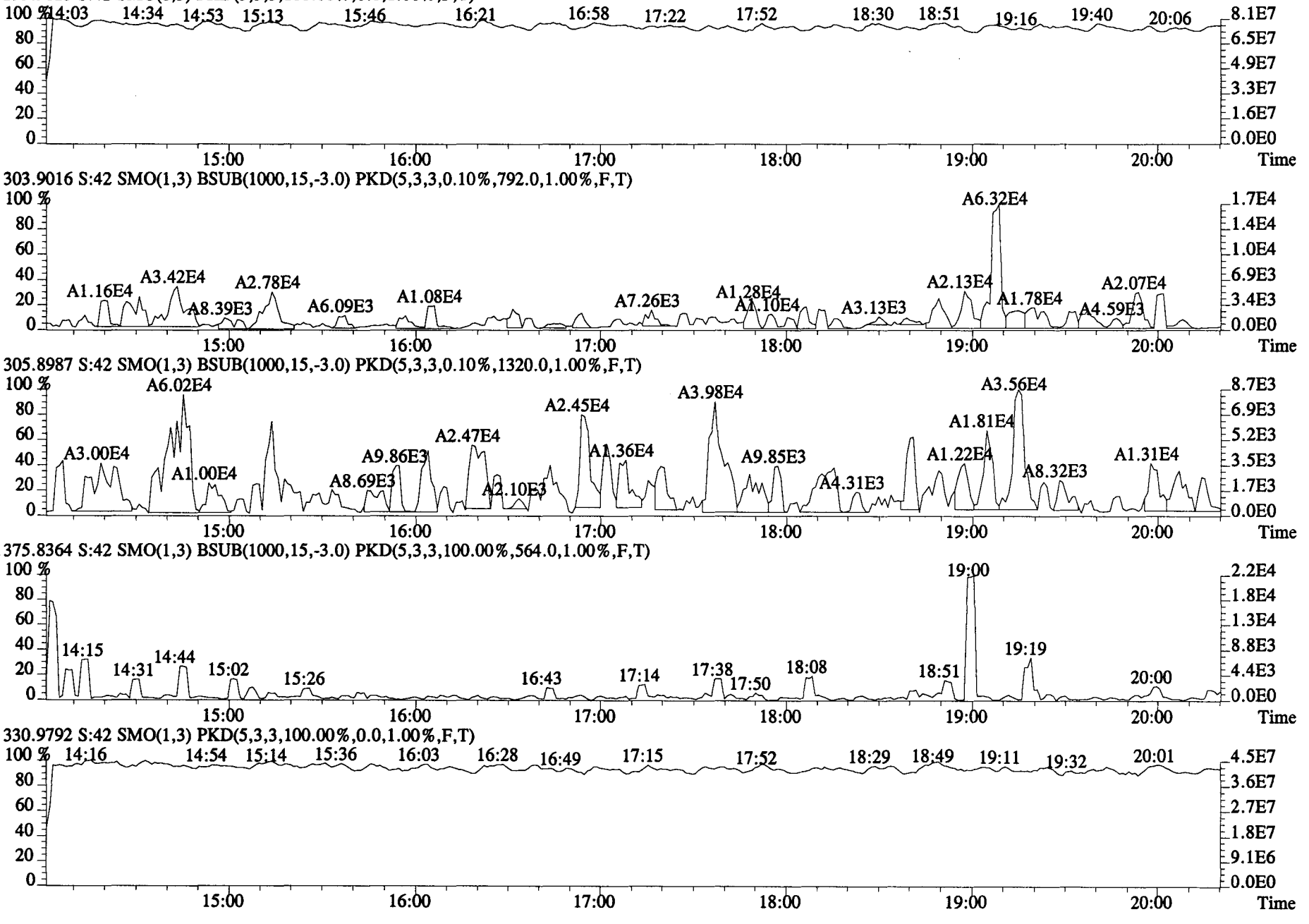
469.7779 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4016.0,1.00%,F,T)



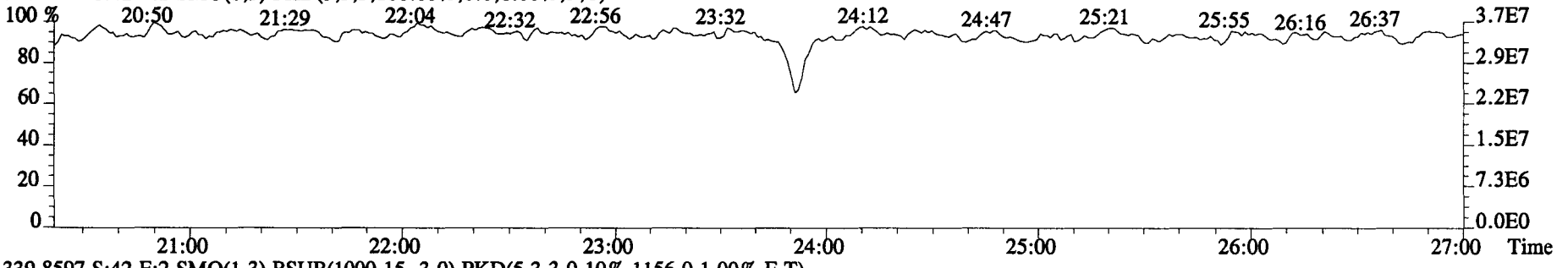
471.7750 S:42 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



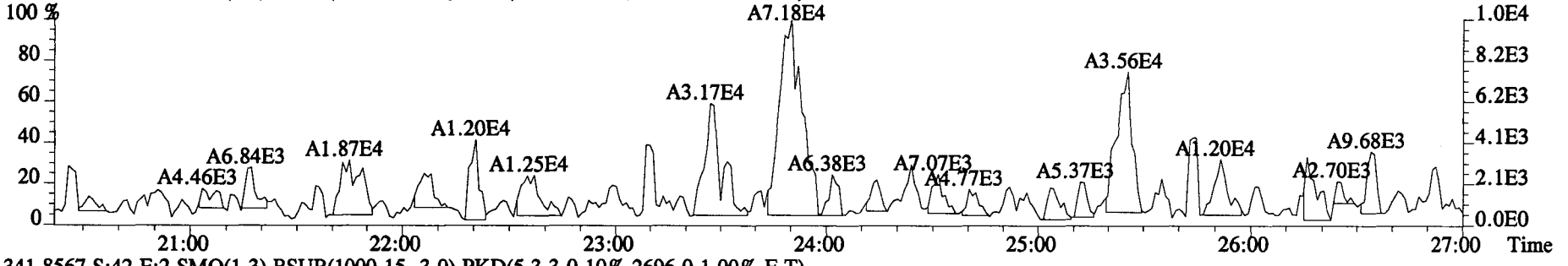
File:16AU10B1D5 #1-372 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES



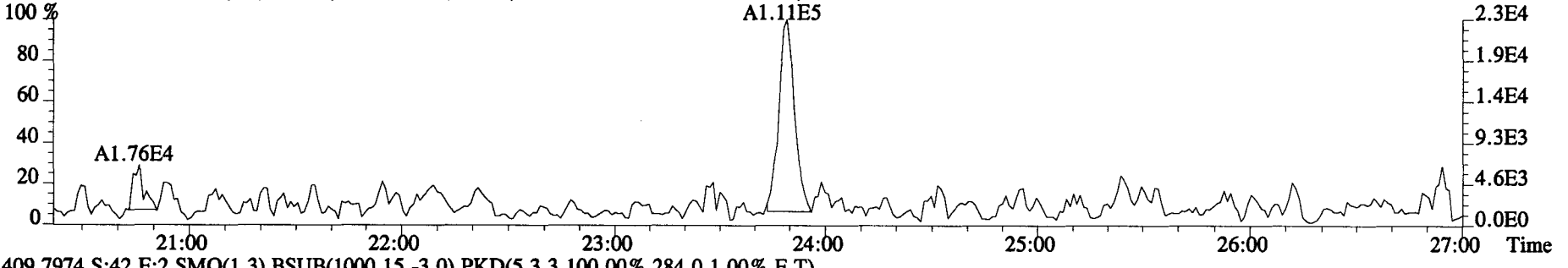
File:16AU10B1D5 #1-414 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
342.9792 S:42 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



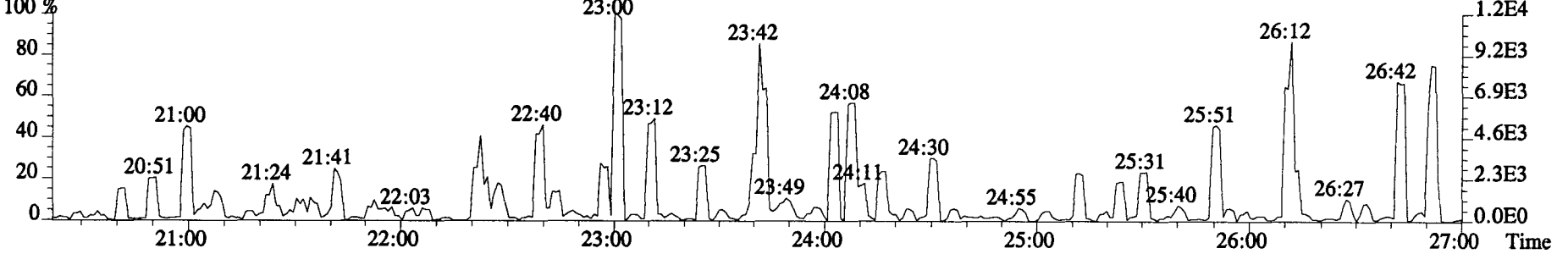
339.8597 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)



341.8567 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)

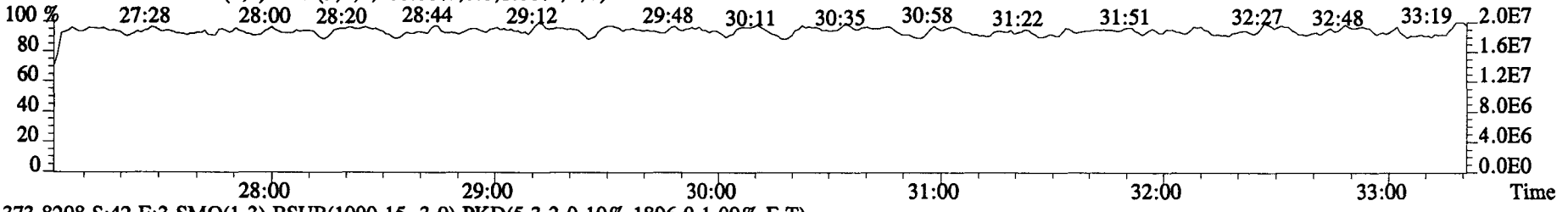


409.7974 S:42 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,284.0,1.00%,F,T)

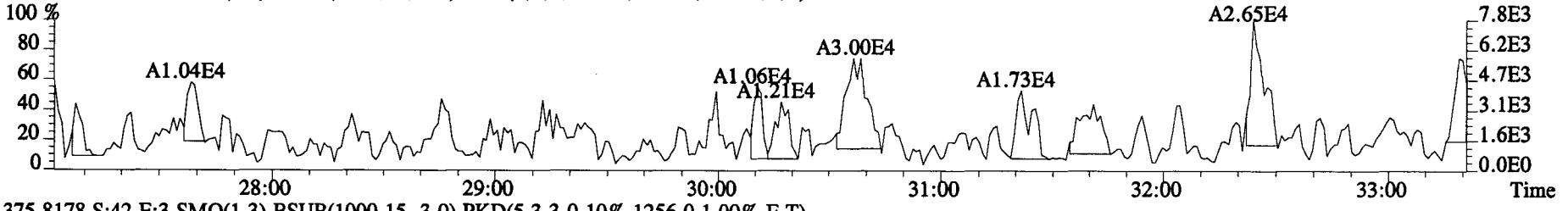


File:16AU10B1D5 #1-407 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES

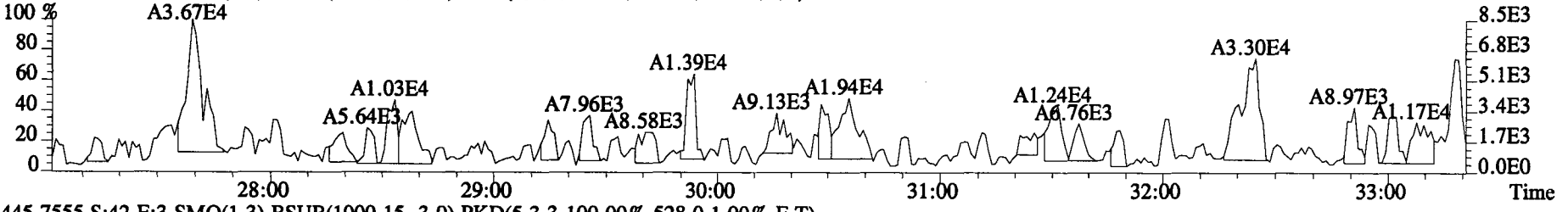
392.9760 S:42 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



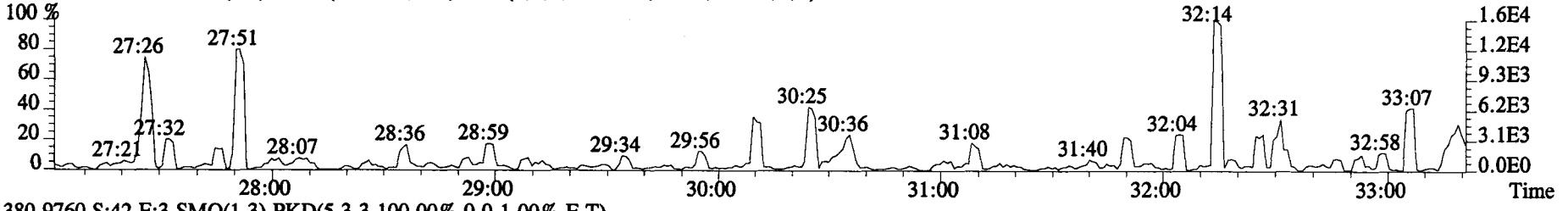
373.8208 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)



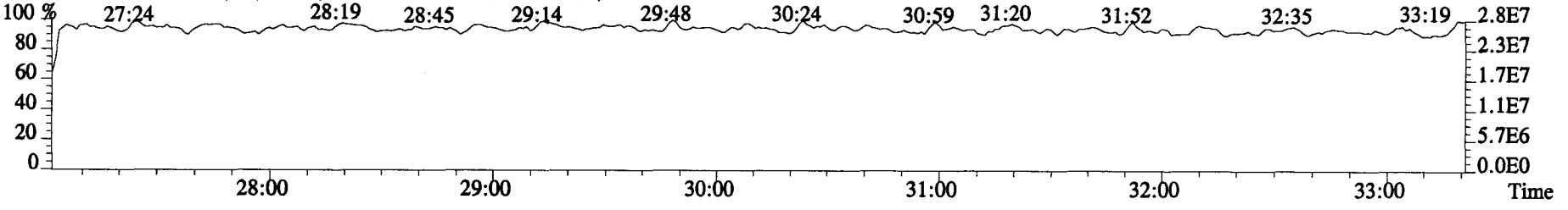
375.8178 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)



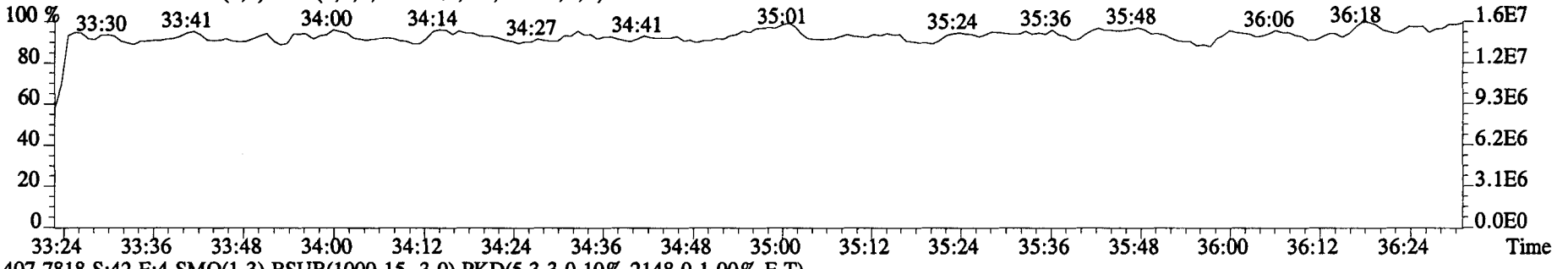
445.7555 S:42 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,528.0,1.00%,F,T)



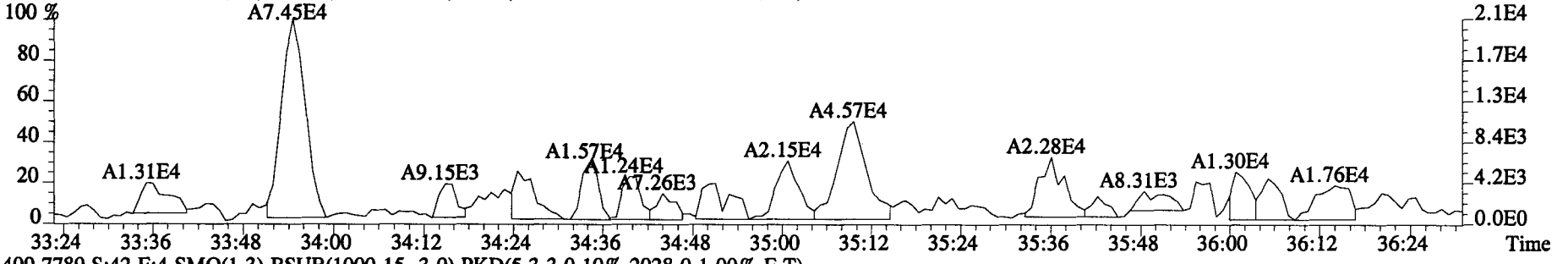
380.9760 S:42 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



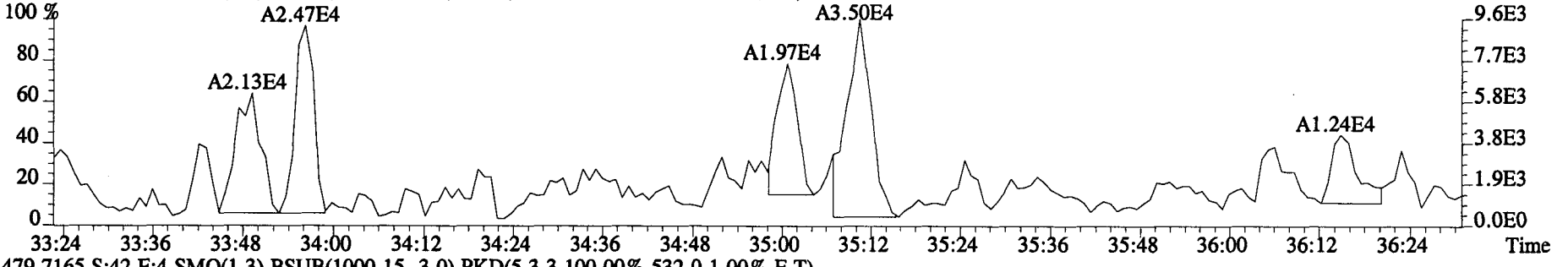
File:16AU10B1D5 #1-214 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
430.9728 S:42 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



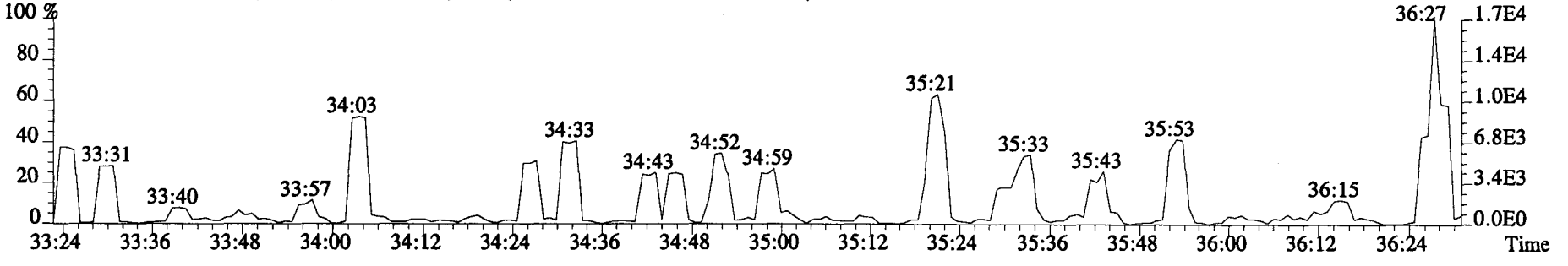
407.7818 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



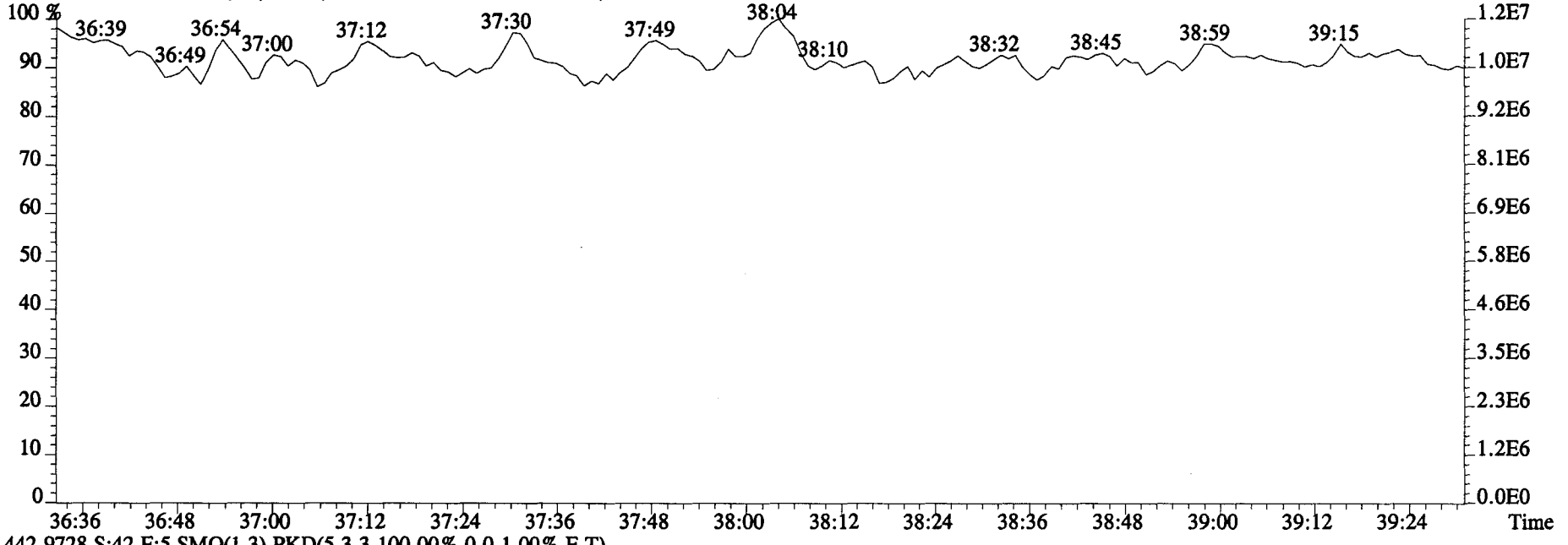
409.7789 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



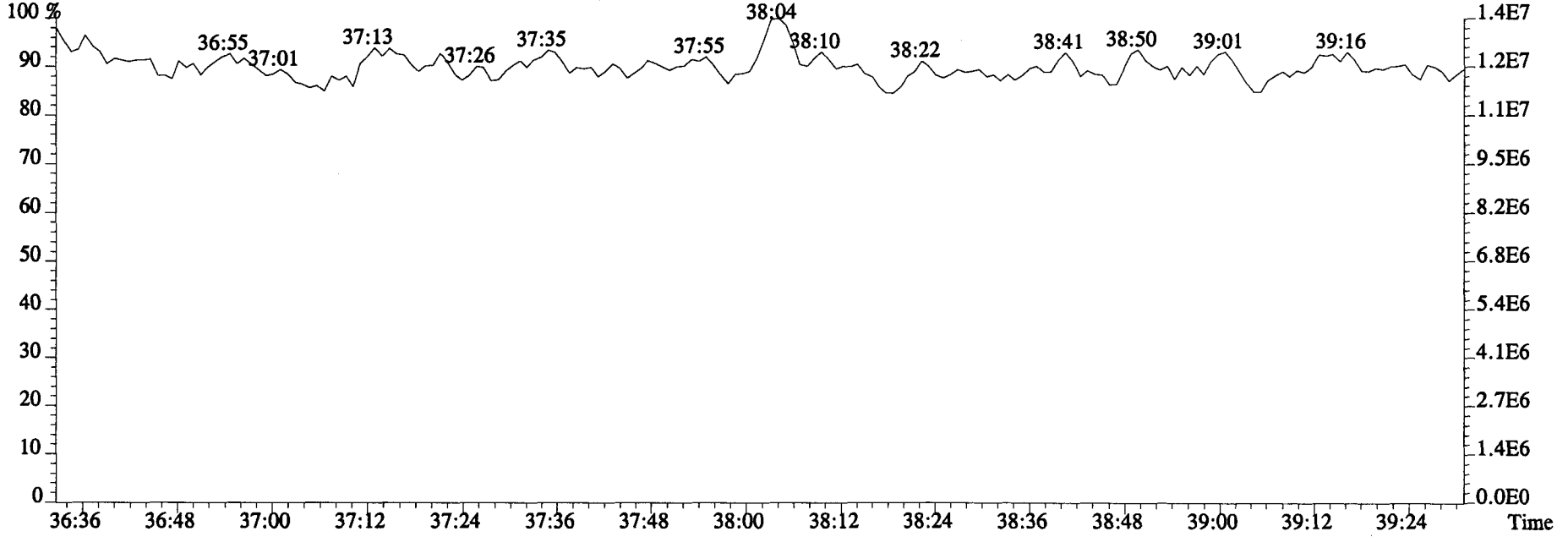
479.7165 S:42 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,532.0,1.00%,F,T)



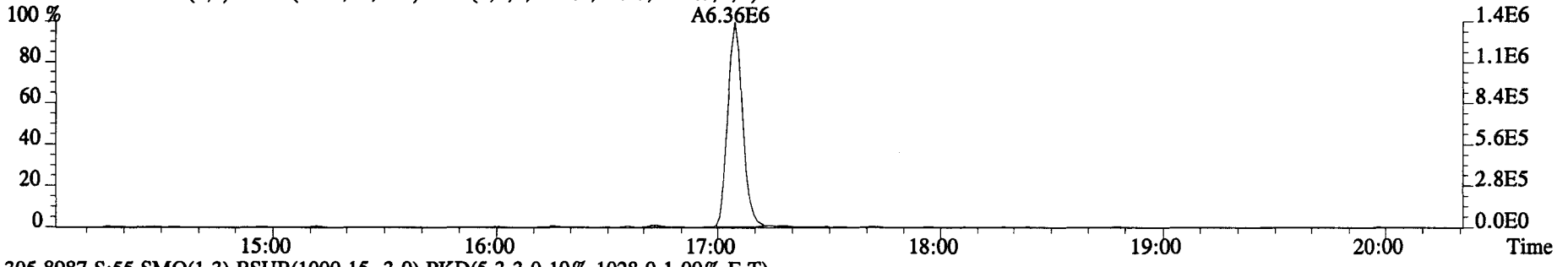
File:16AU10B1D5 #1-196 Acq:17-AUG-2010 22:14:23 GC EI+ Voltage SIR 70SE
Sample#42 Text:L5LC4-1-AAB :G0H140454-1MB Exp:DIOXINRES
454.9728 S:42 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



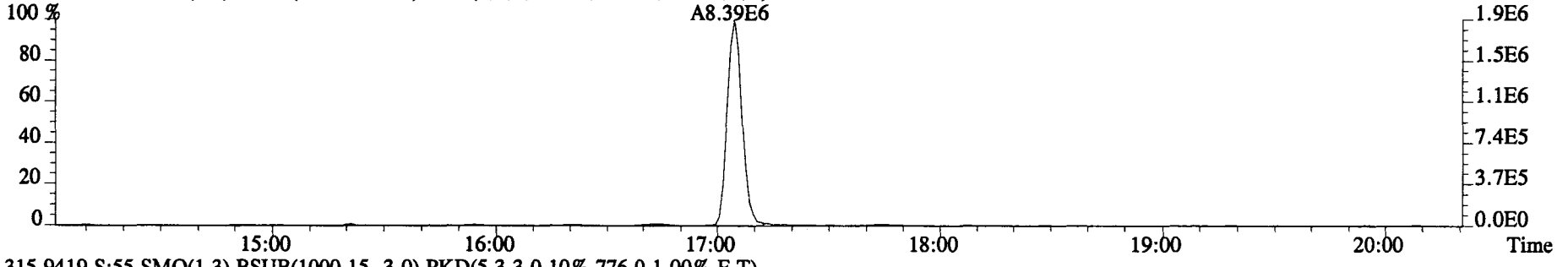
442.9728 S:42 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



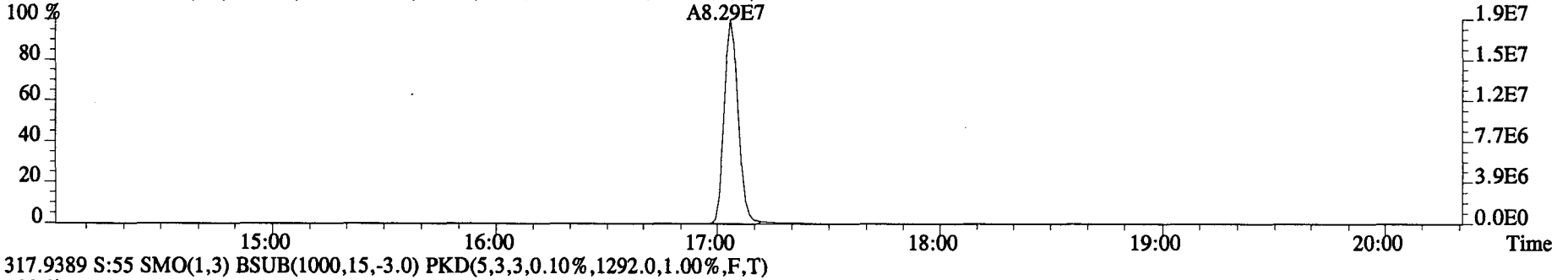
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
303.9016 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,516.0,1.00%,F,T)



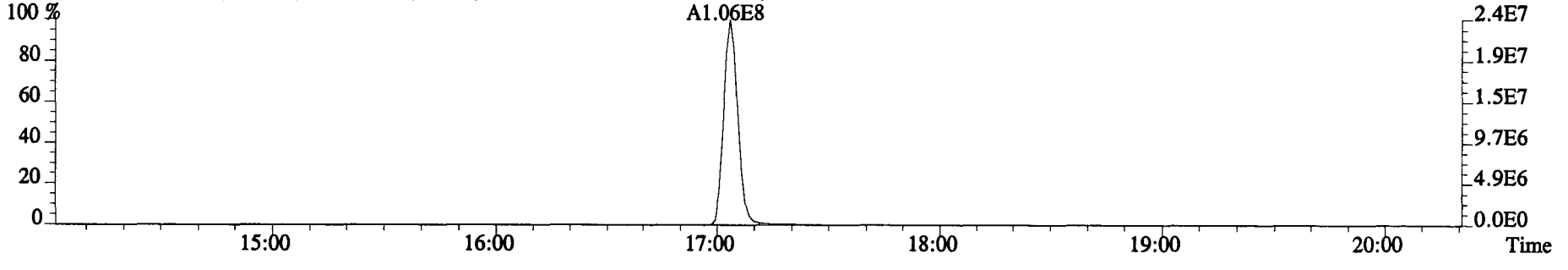
305.8987 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1028.0,1.00%,F,T)



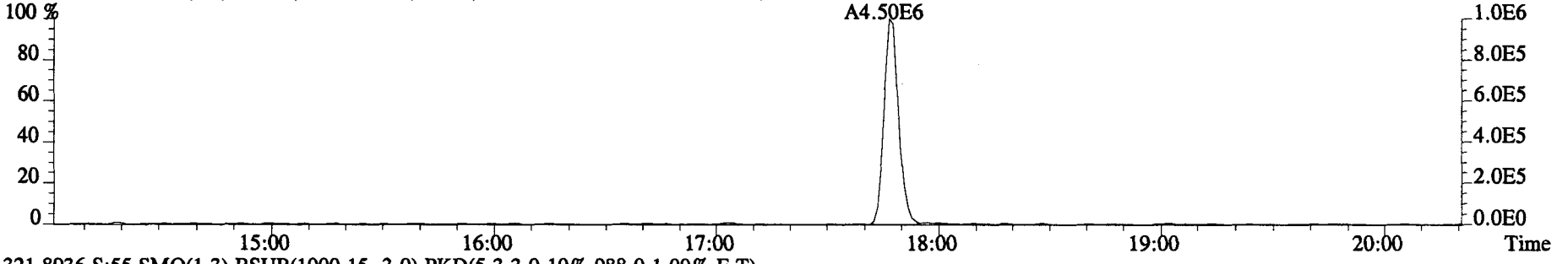
315.9419 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



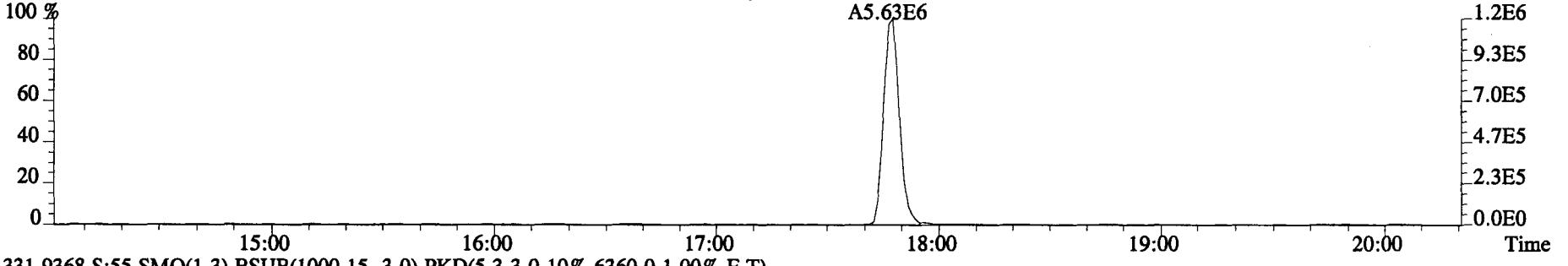
317.9389 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1292.0,1.00%,F,T)



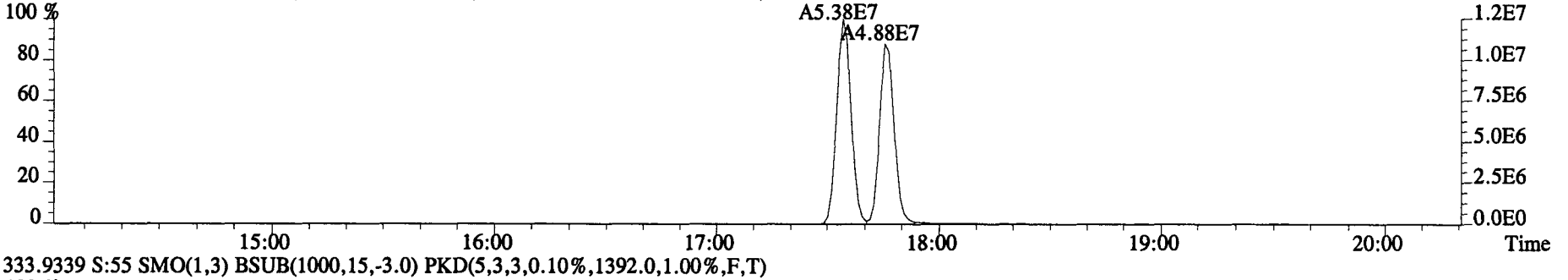
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
319.8965 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1352.0,1.00%,F,T)



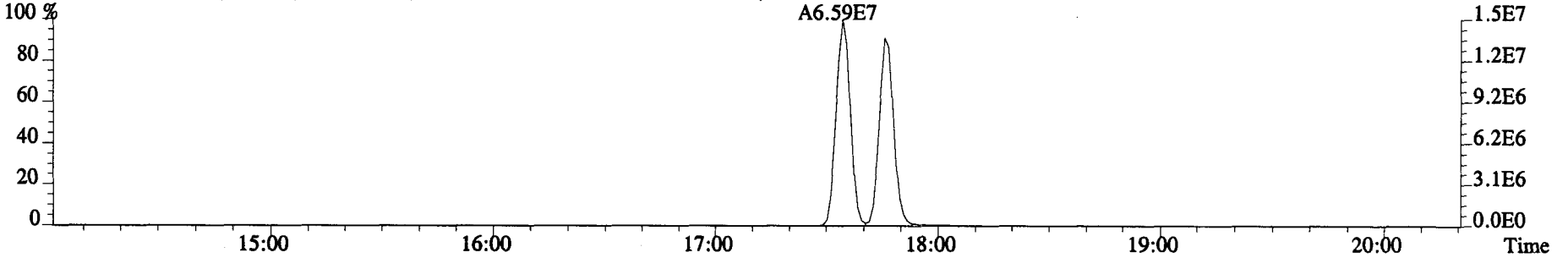
321.8936 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,988.0,1.00%,F,T)



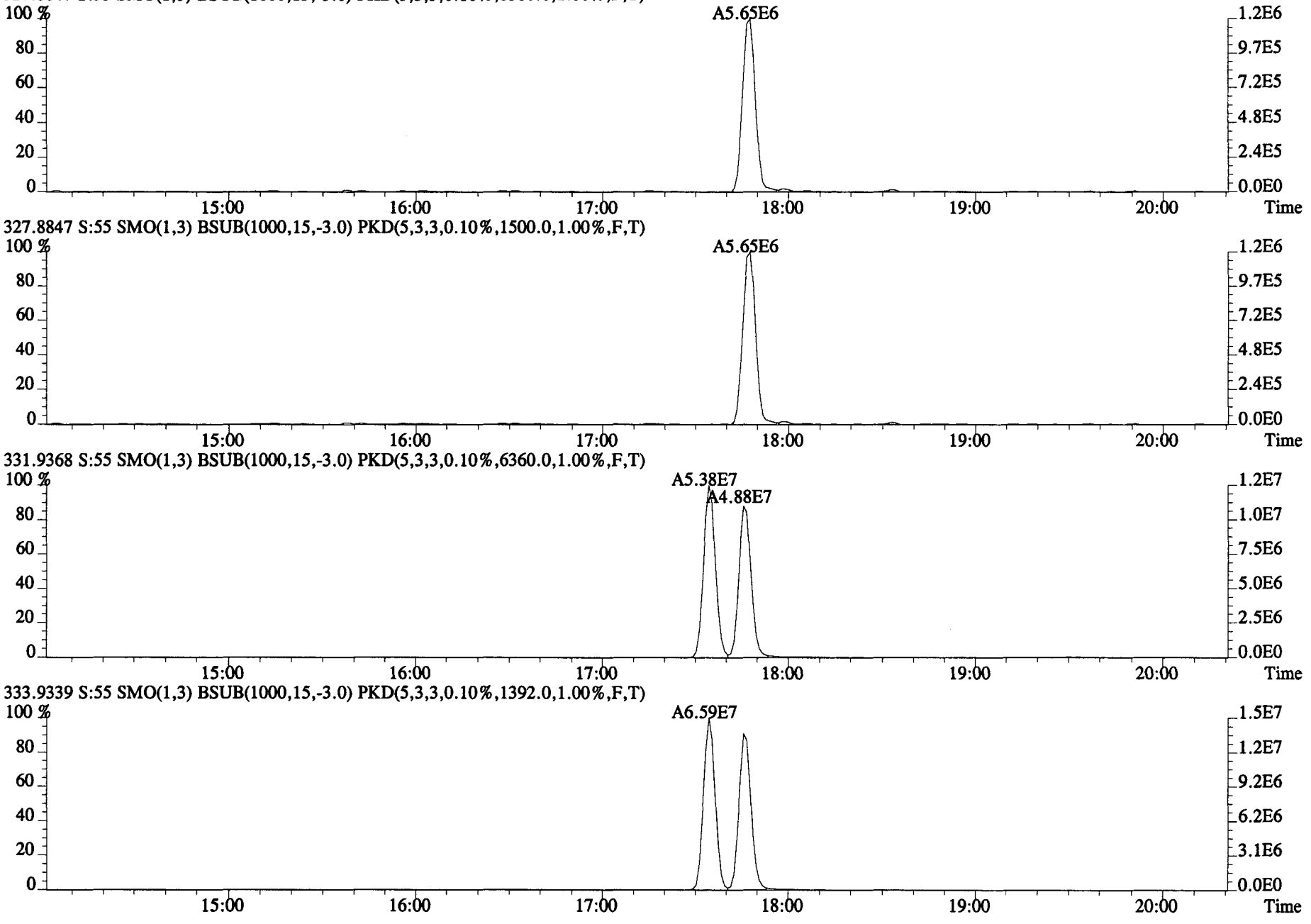
331.9368 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6360.0,1.00%,F,T)



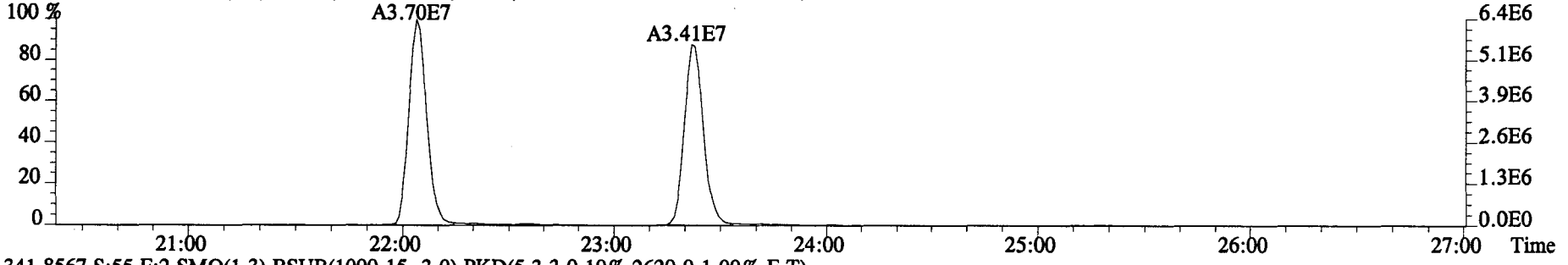
333.9339 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



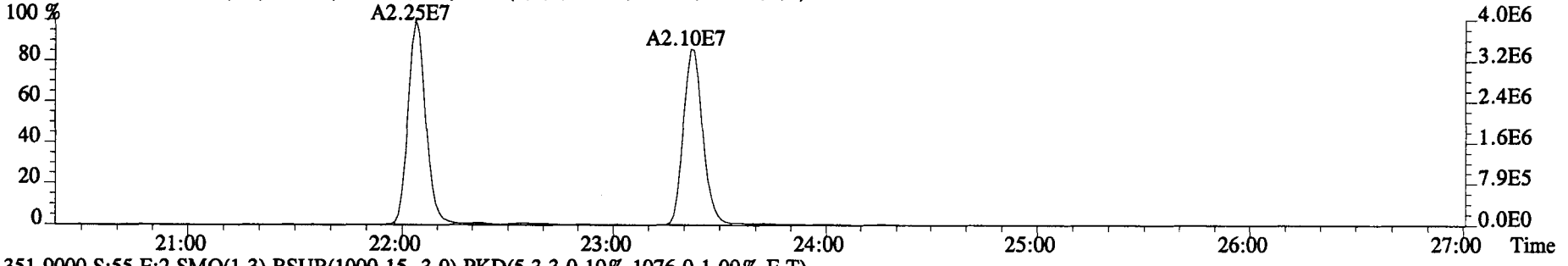
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES



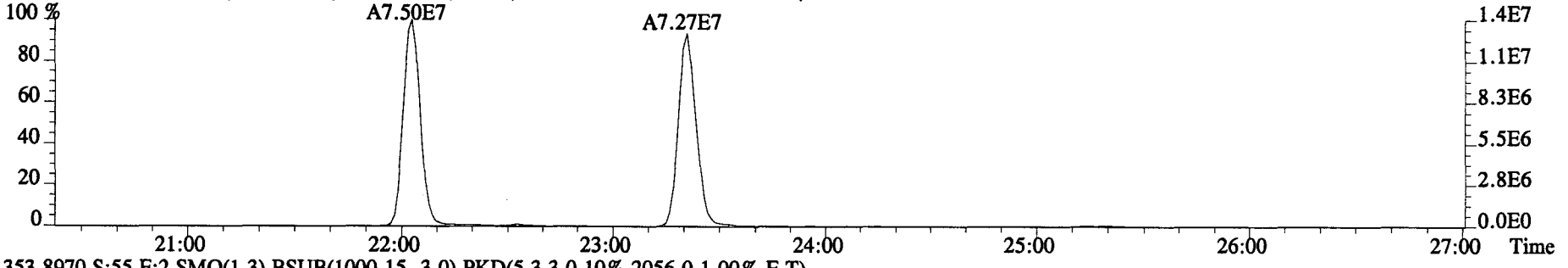
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128.0,1.00%,F,T)



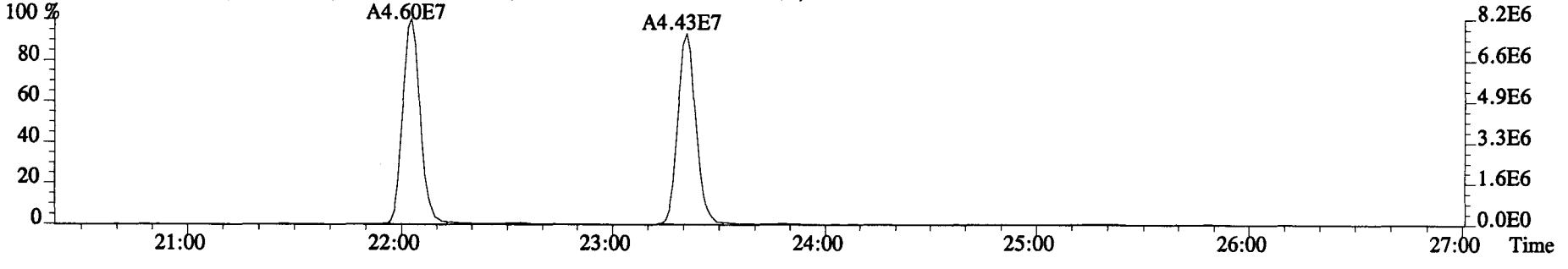
341.8567 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2620.0,1.00%,F,T)



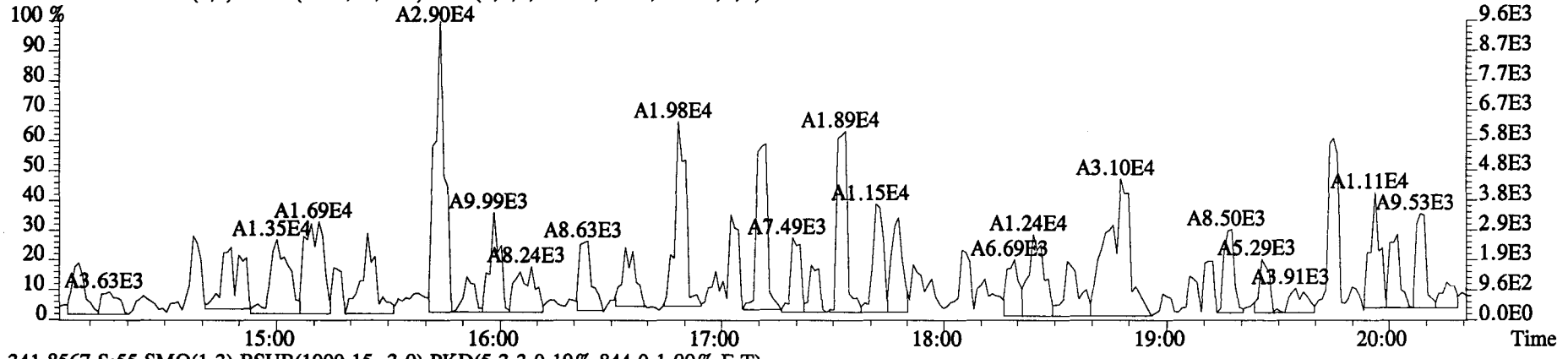
351.9000 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1076.0,1.00%,F,T)



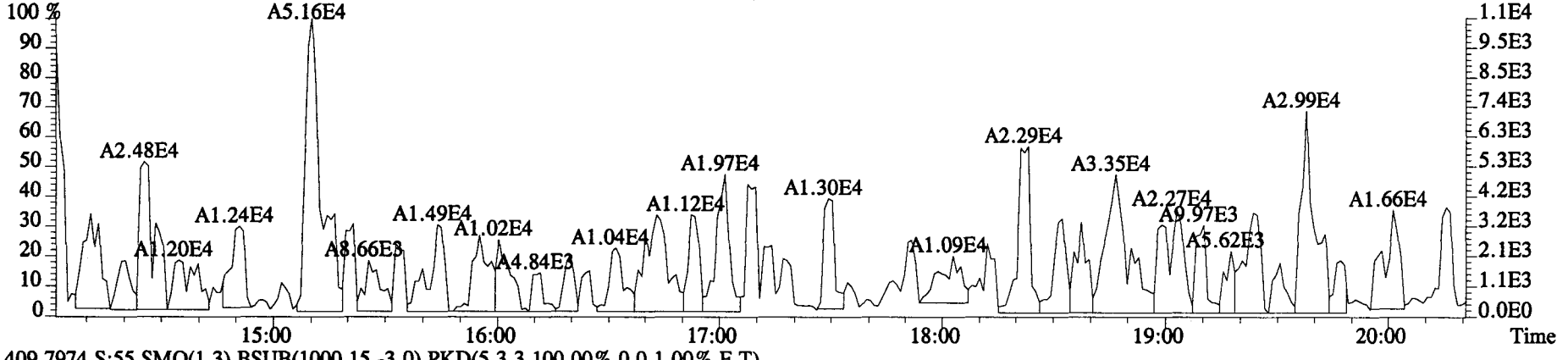
353.8970 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



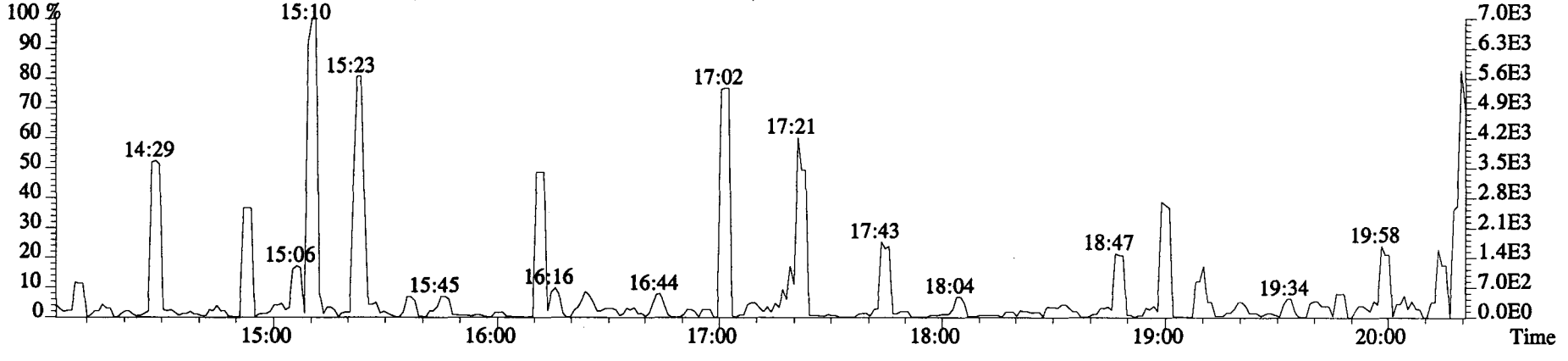
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



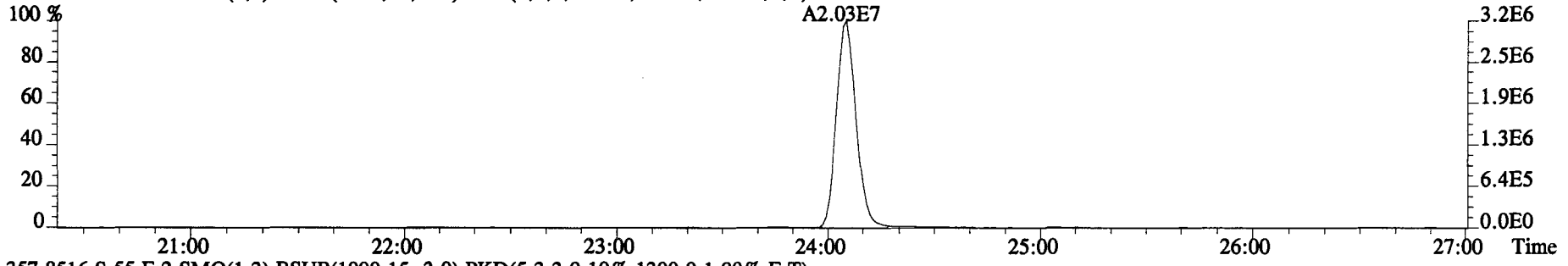
341.8567 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,844.0,1.00%,F,T)



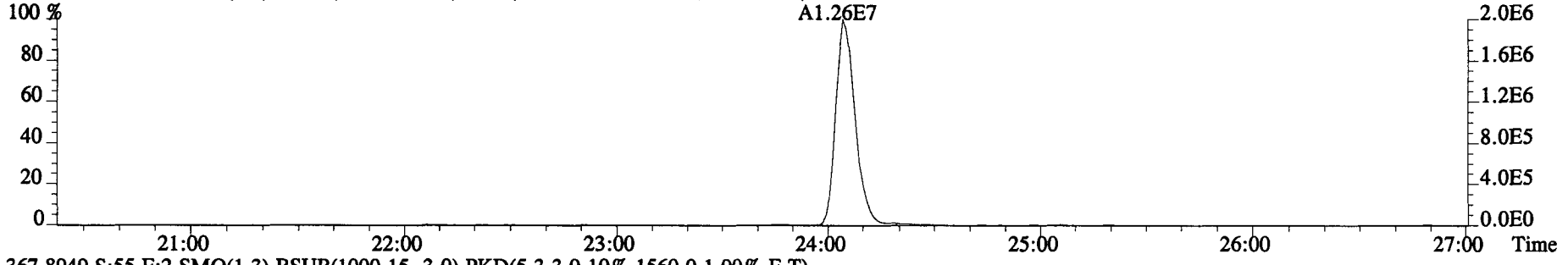
409.7974 S:55 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



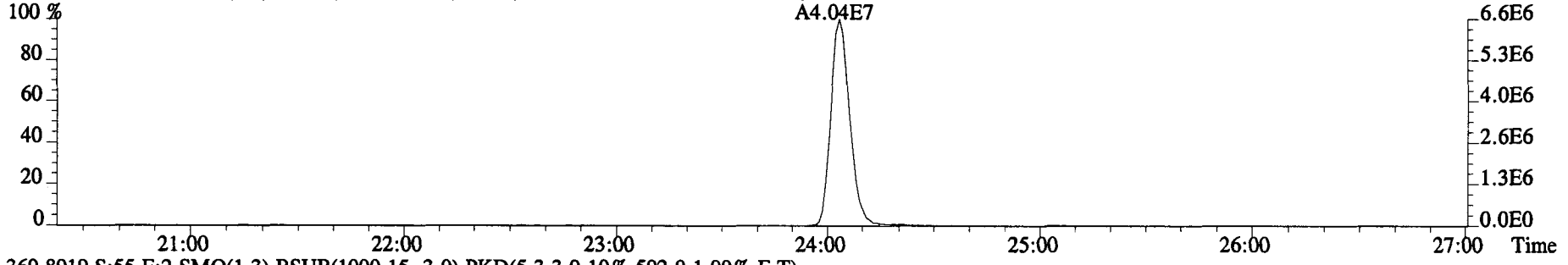
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
355.8546 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



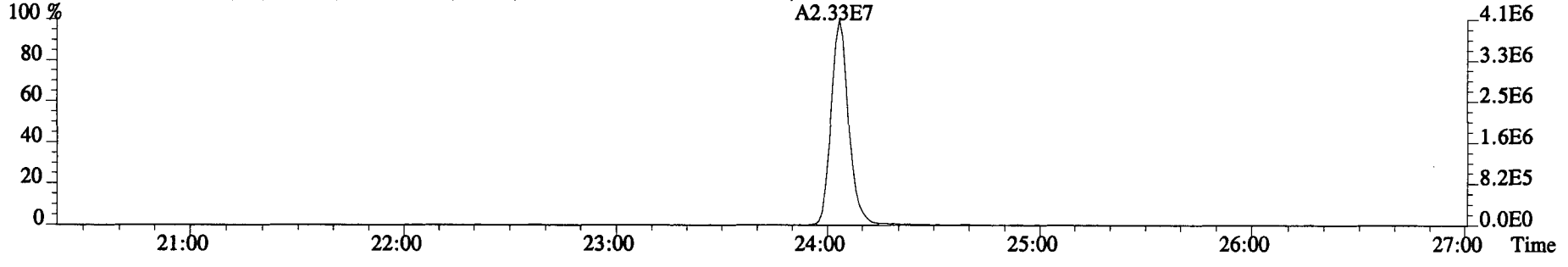
357.8516 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



367.8949 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1560.0,1.00%,F,T)

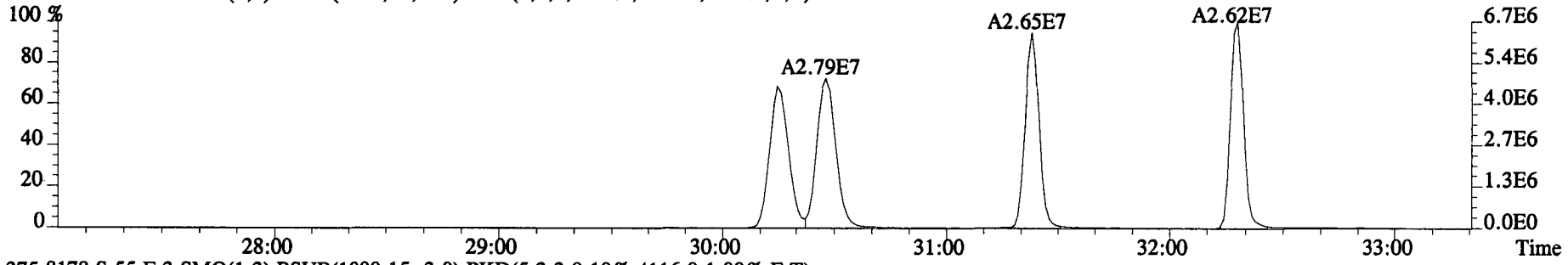


369.8919 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)

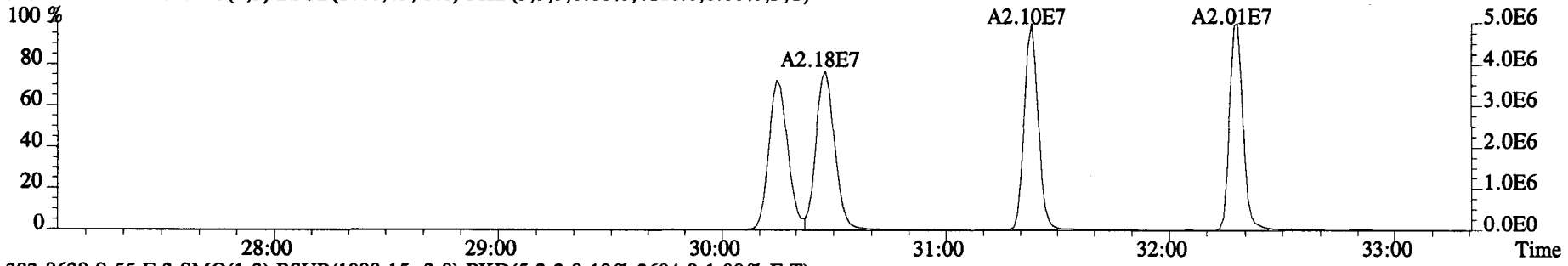


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES

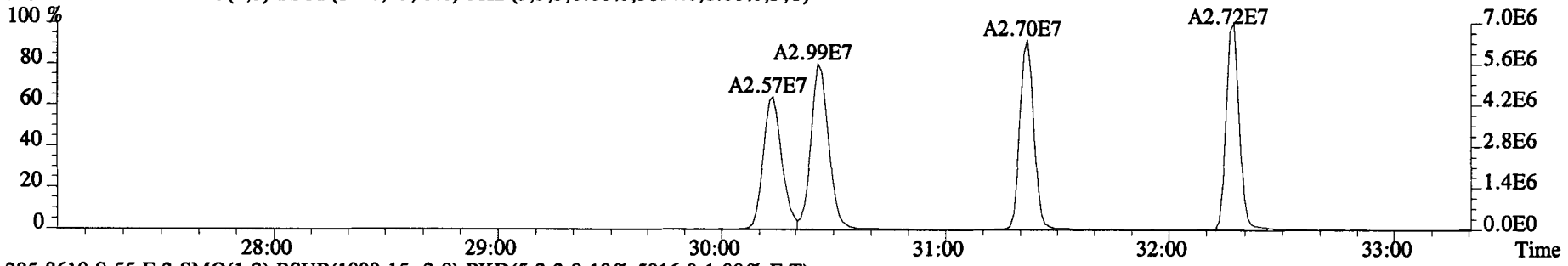
373.8208 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3732.0,1.00%,F,T)



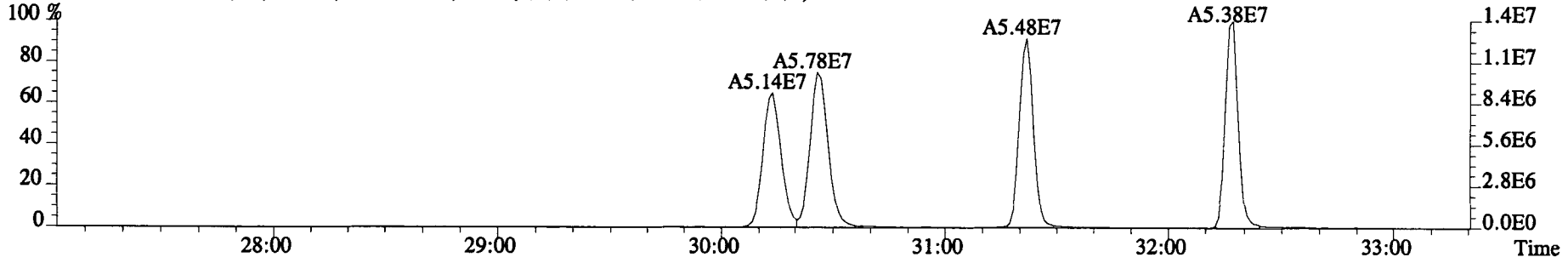
375.8178 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4116.0,1.00%,F,T)



383.8639 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3604.0,1.00%,F,T)

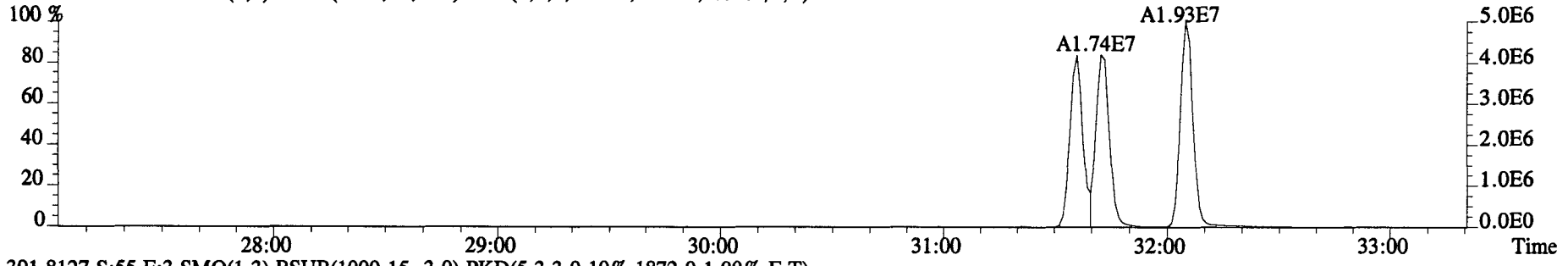


385.8610 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5016.0,1.00%,F,T)

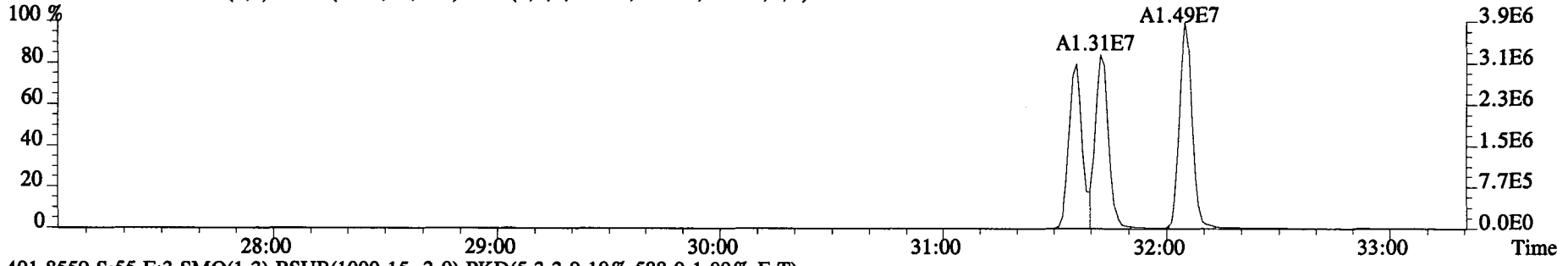


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES

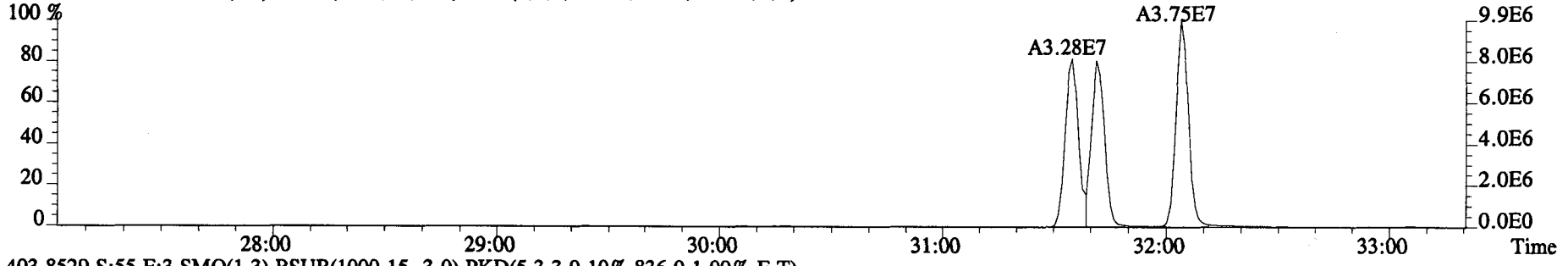
389.8157 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T)



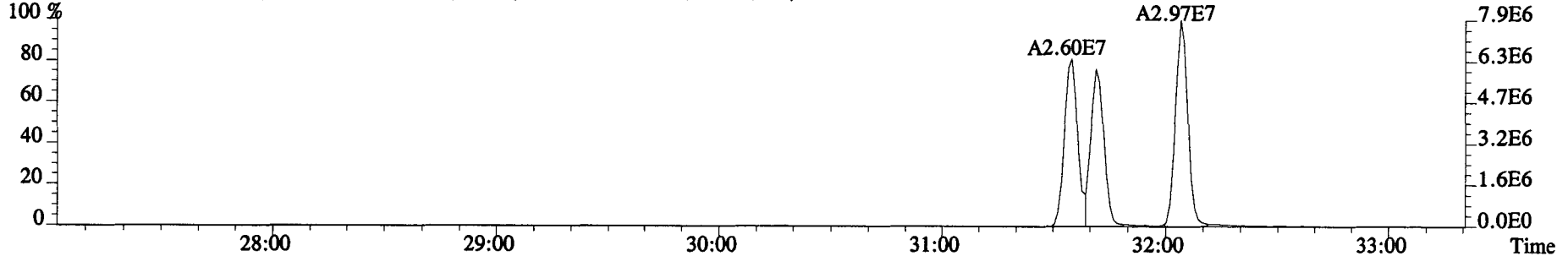
391.8127 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



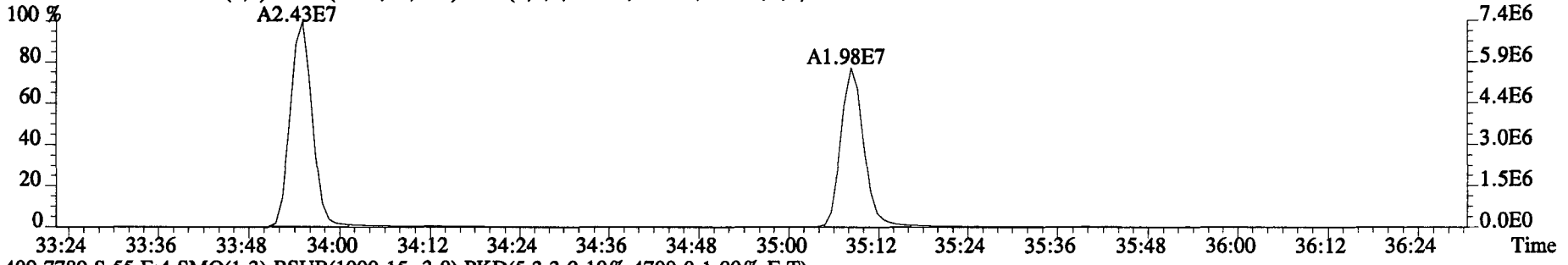
401.8559 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,588.0,1.00%,F,T)



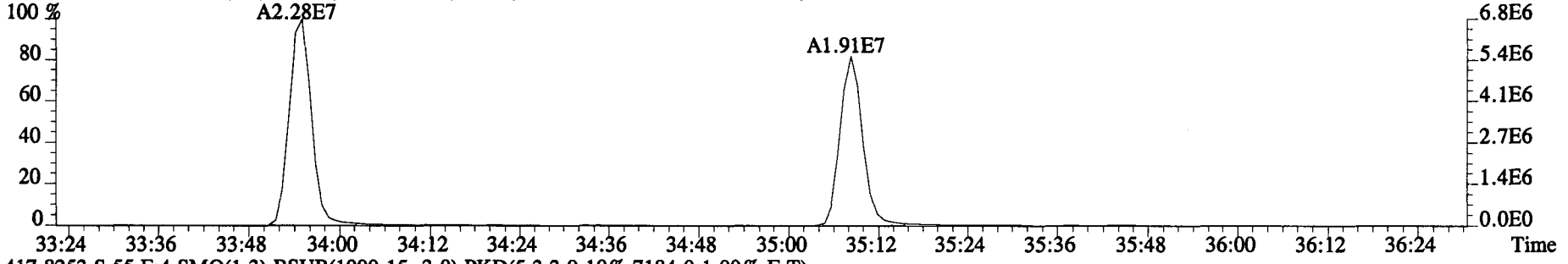
403.8529 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)



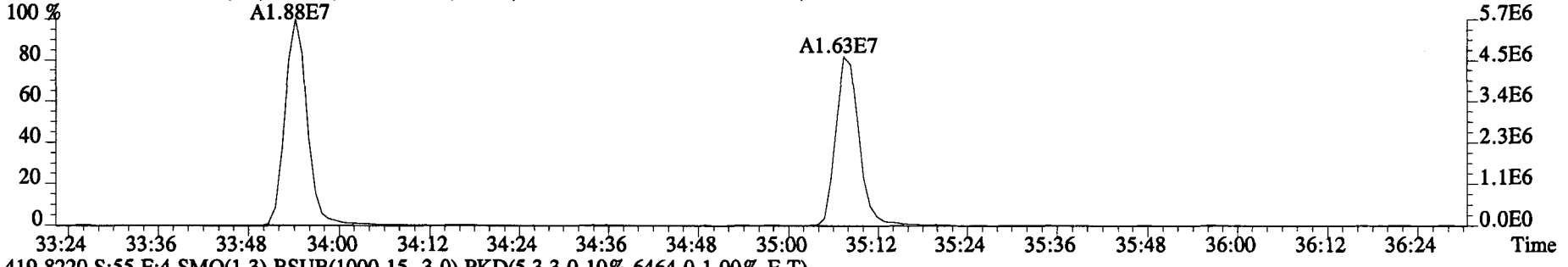
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
407.7818 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6684.0,1.00%,F,T)



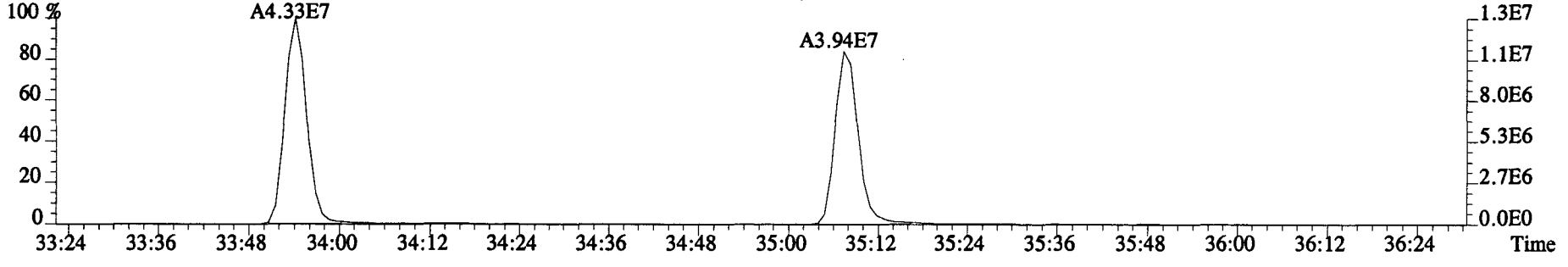
409.7789 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4700.0,1.00%,F,T)



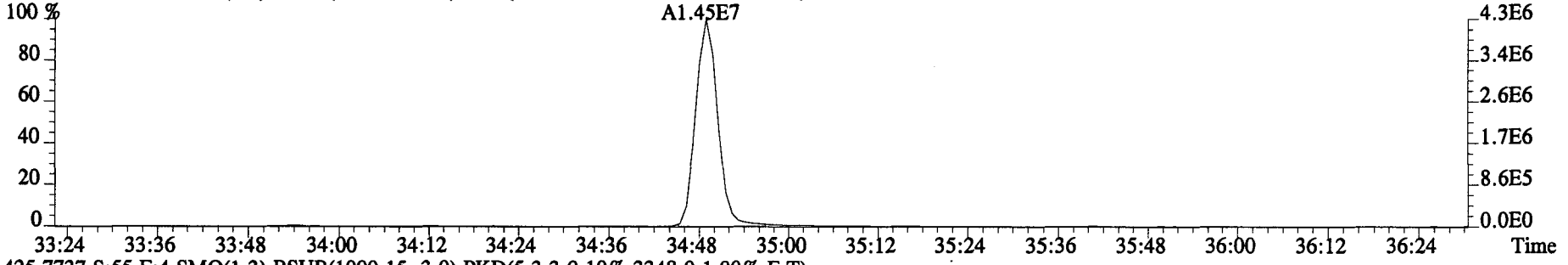
417.8253 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7184.0,1.00%,F,T)



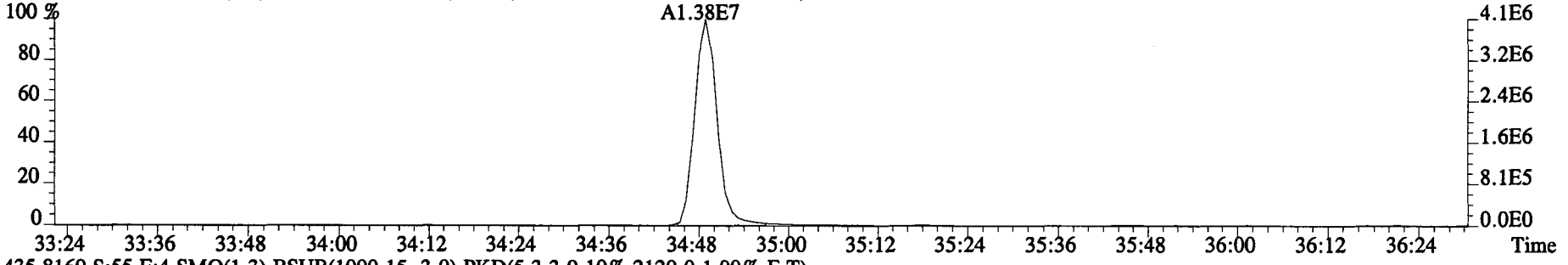
419.8220 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6464.0,1.00%,F,T)



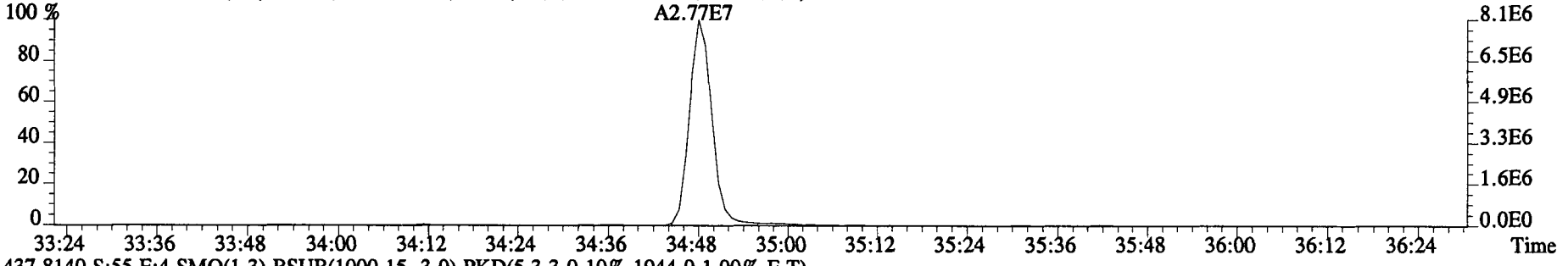
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
423.7766 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1576.0,1.00%,F,T)



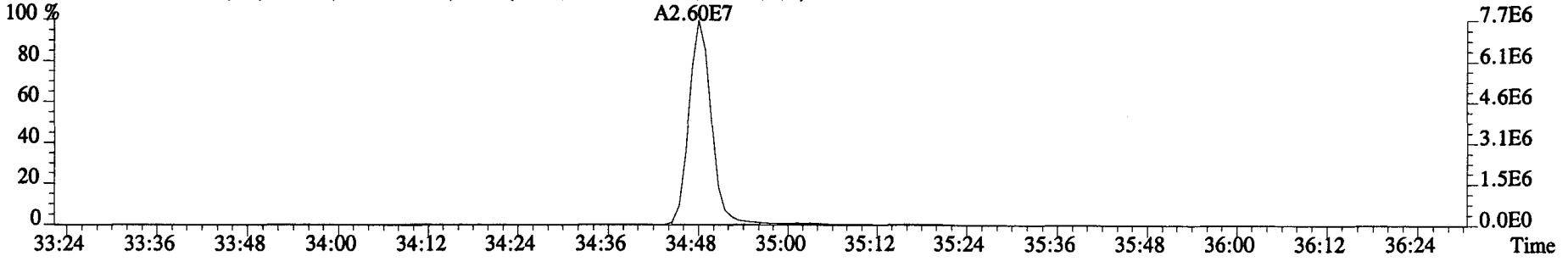
425.7737 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3348.0,1.00%,F,T)



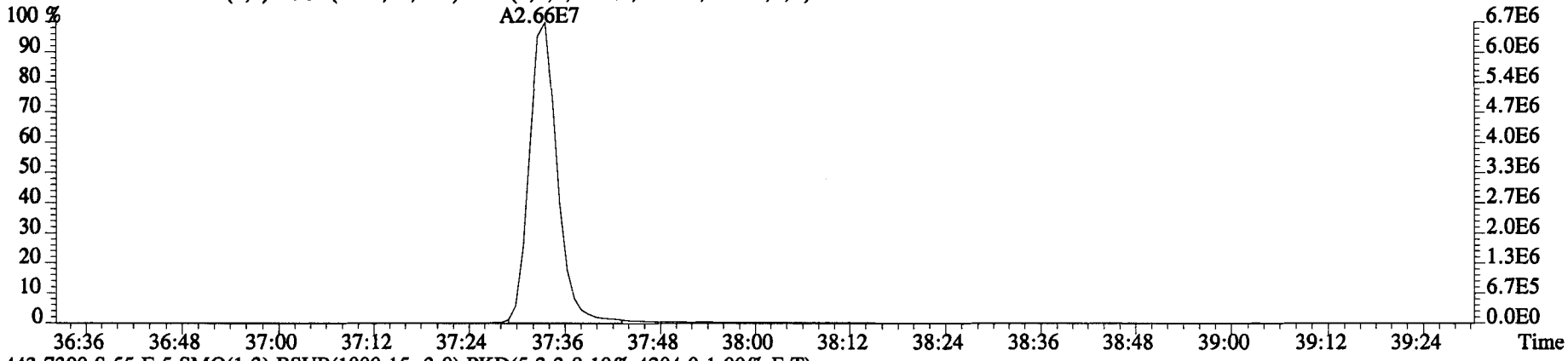
435.8169 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2120.0,1.00%,F,T)



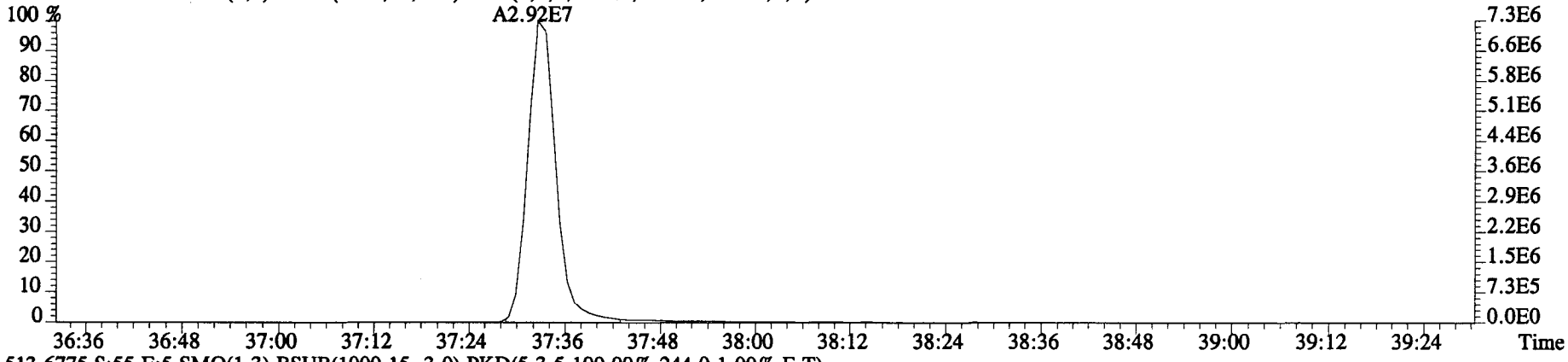
437.8140 S:55 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1944.0,1.00%,F,T)



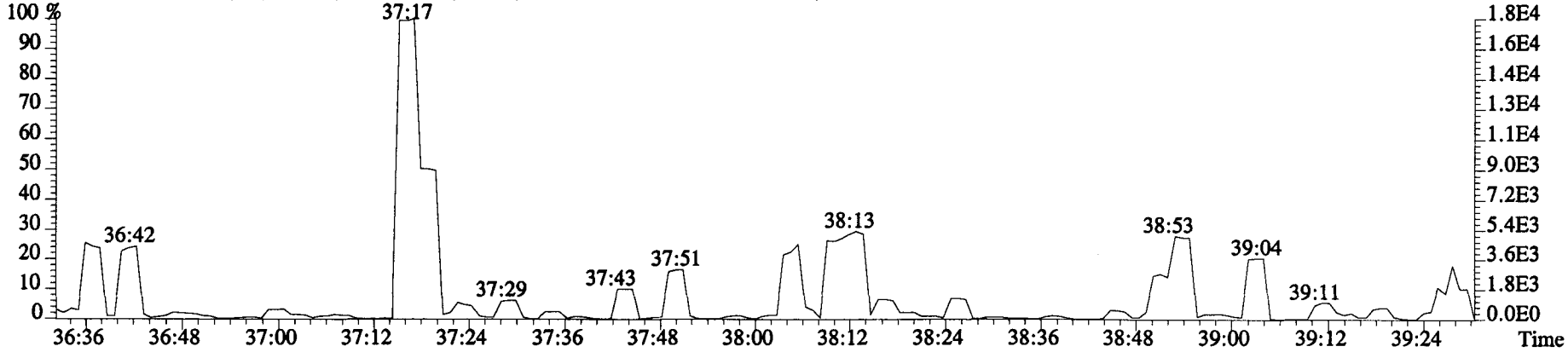
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
441.7428 S:55 F:5 SMO(1,3) BSUB(1000;15,-3.0) PKD(5,3,3,0.10%,2952.0,1.00%,F,T)



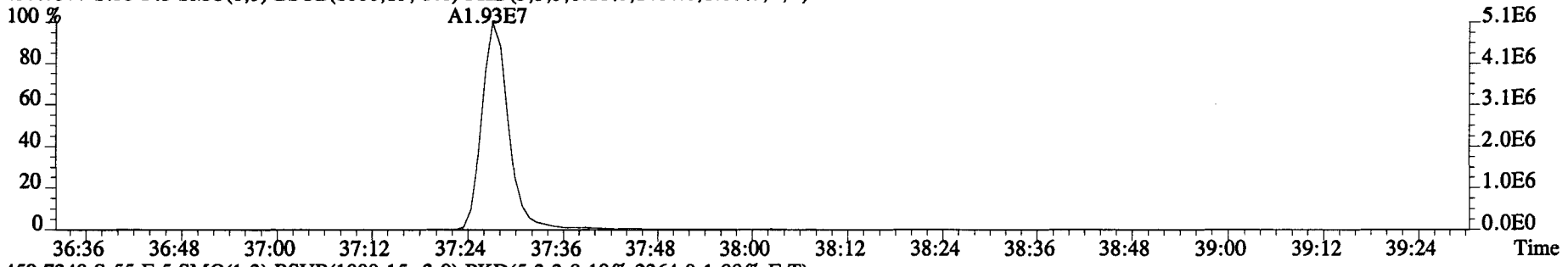
443.7399 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4204.0,1.00%,F,T)



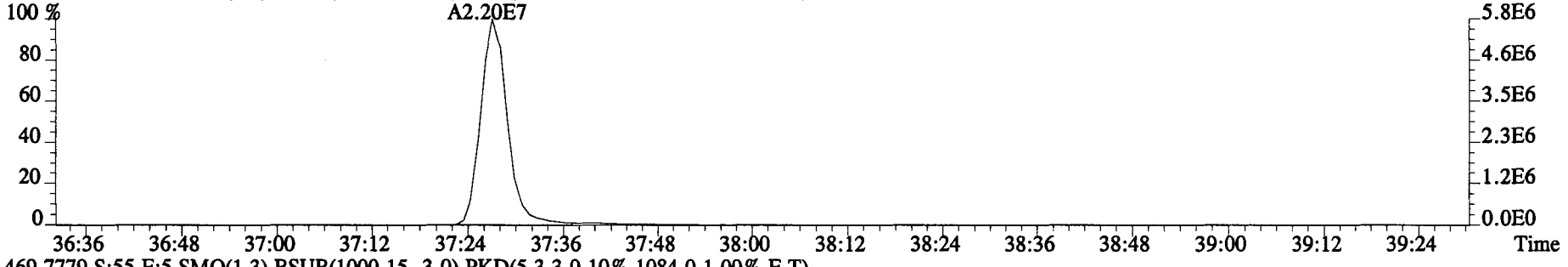
513.6775 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,244.0,1.00%,F,T)



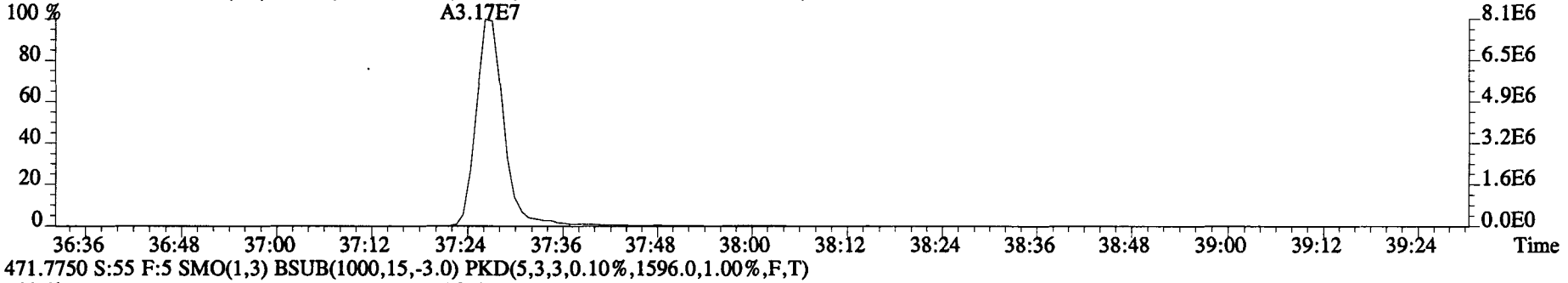
File:16AU10B1D5 #1-196 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
457.7377 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1464.0,1.00%,F,T)



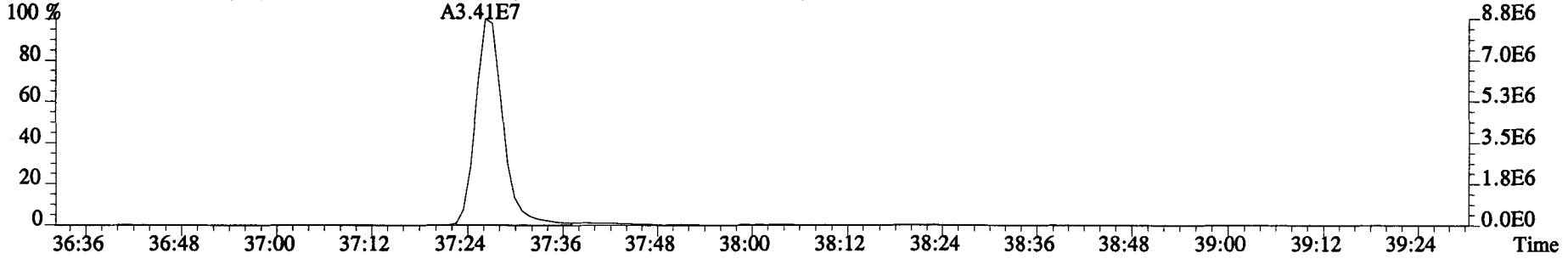
459.7348 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2364.0,1.00%,F,T)



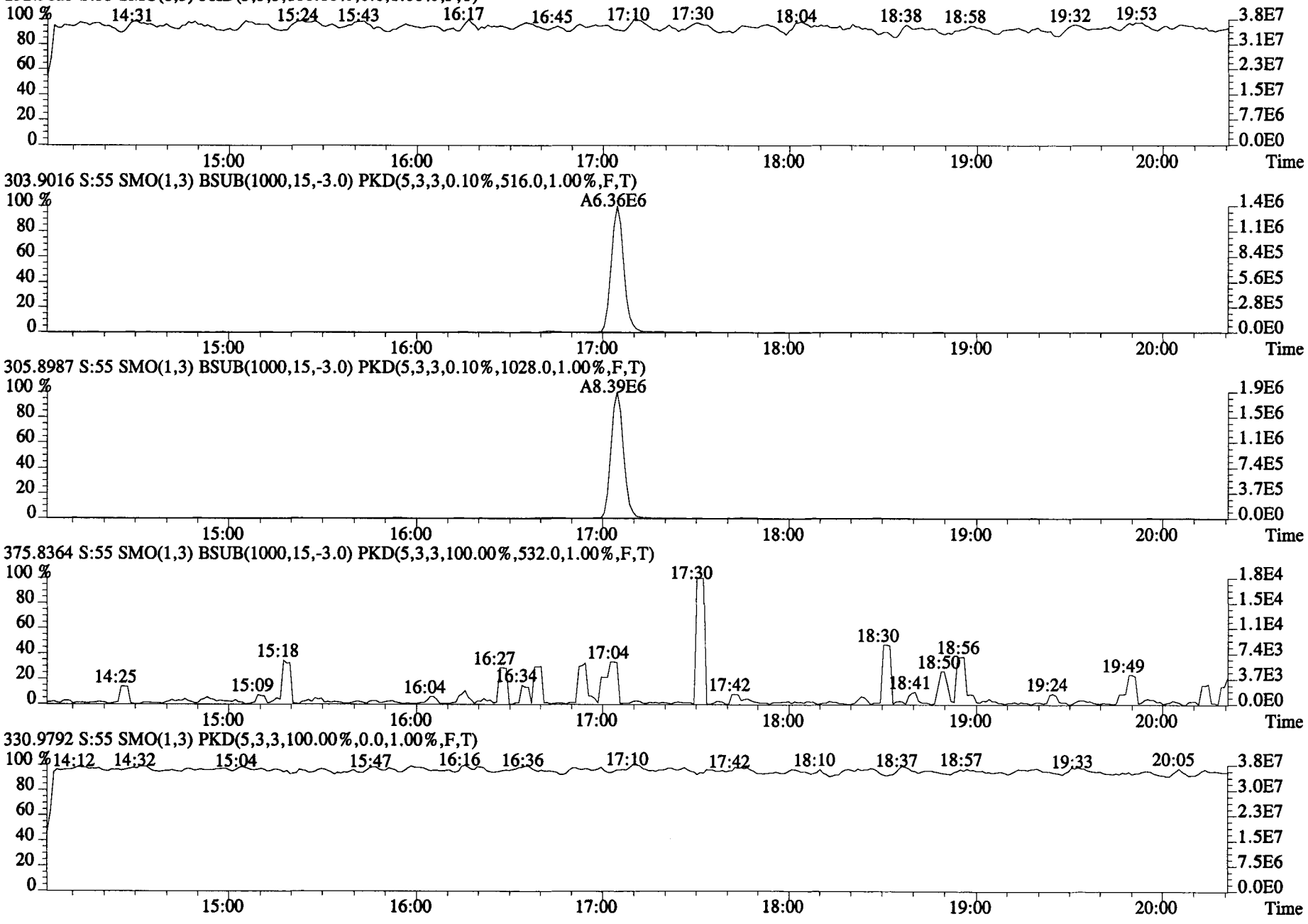
469.7779 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



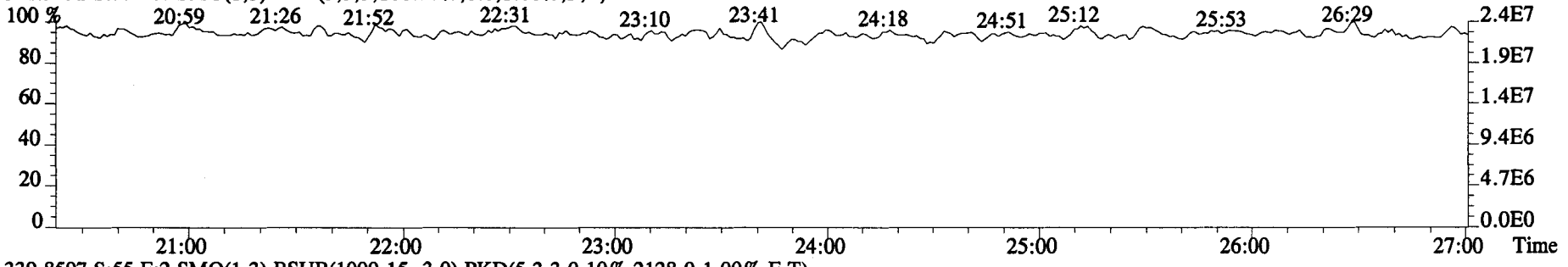
471.7750 S:55 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1596.0,1.00%,F,T)



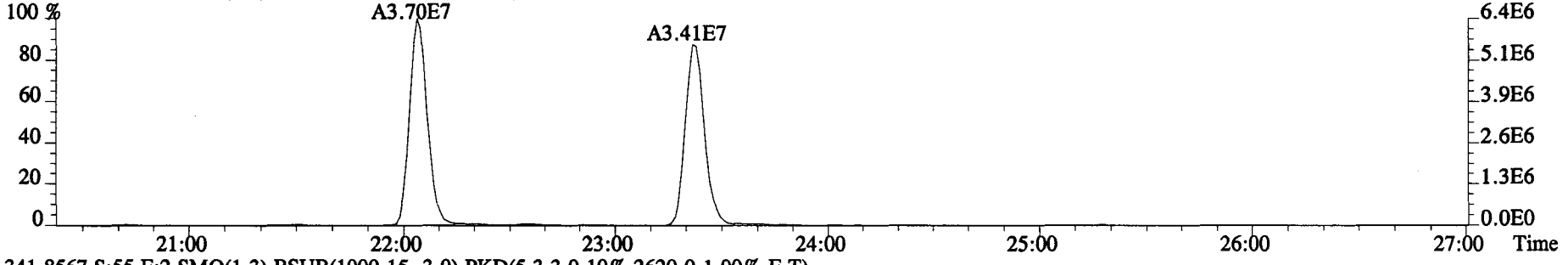
File:16AU10B1D5 #1-372 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES



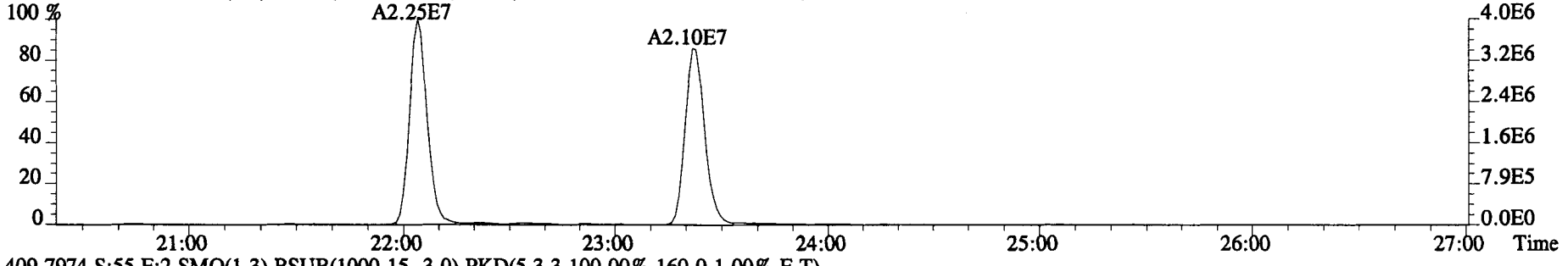
File:16AU10B1D5 #1-414 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
342.9792 S:55 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



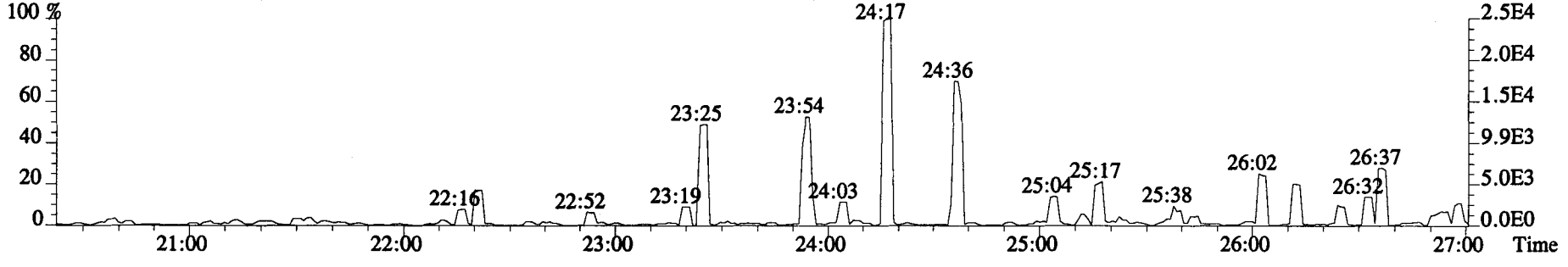
339.8597 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128.0,1.00%,F,T)



341.8567 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2620.0,1.00%,F,T)

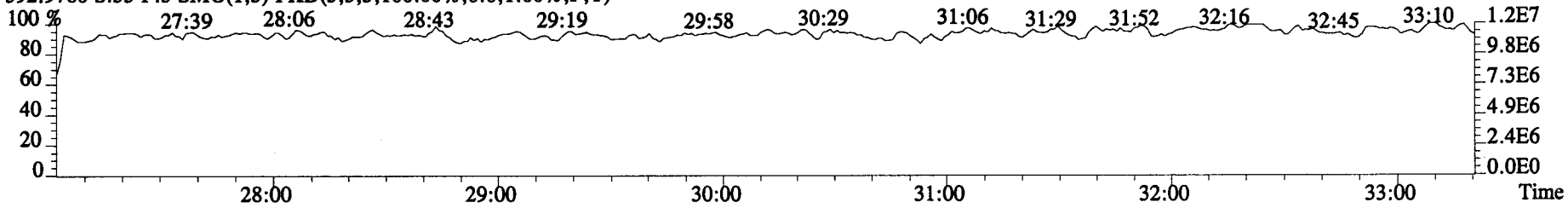


409.7974 S:55 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)

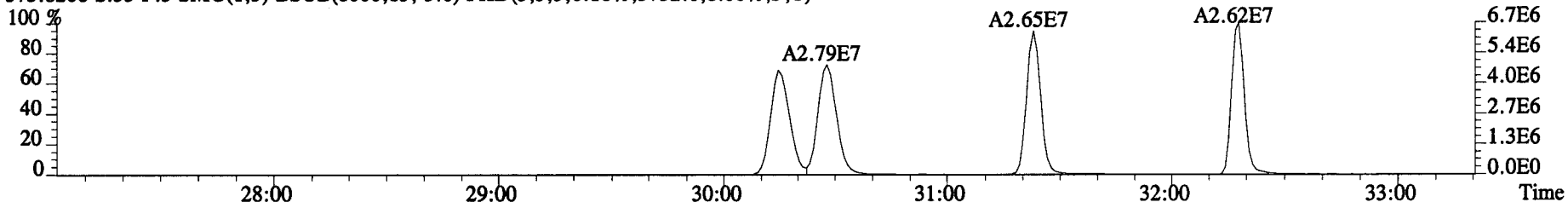


File:16AU10B1D5 #1-406 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES

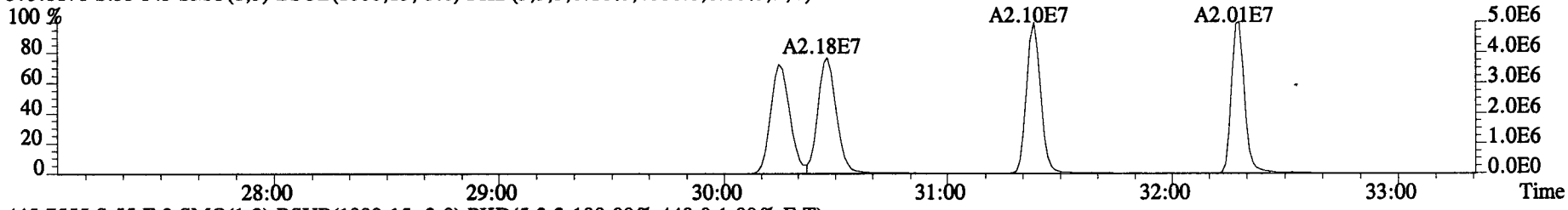
392.9760 S:55 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



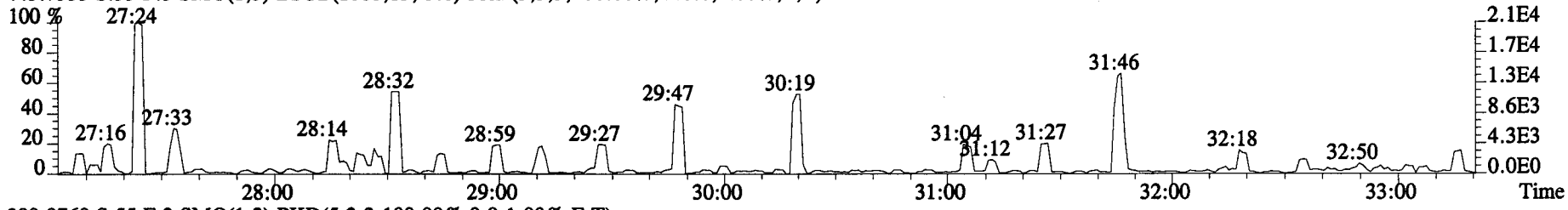
373.8208 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3732.0,1.00%,F,T)



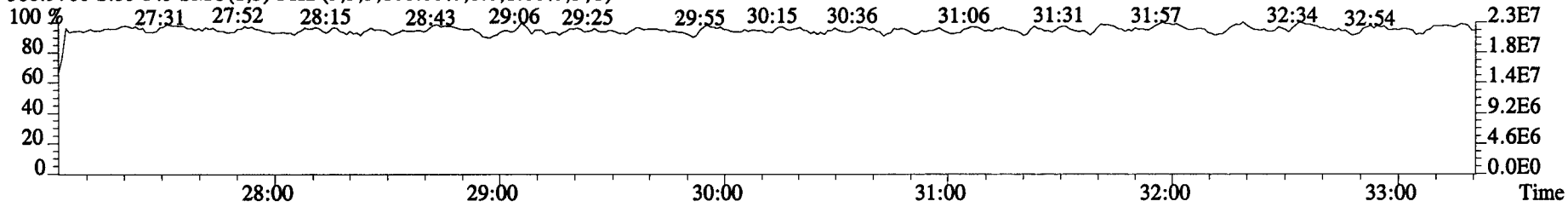
375.8178 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4116.0,1.00%,F,T)



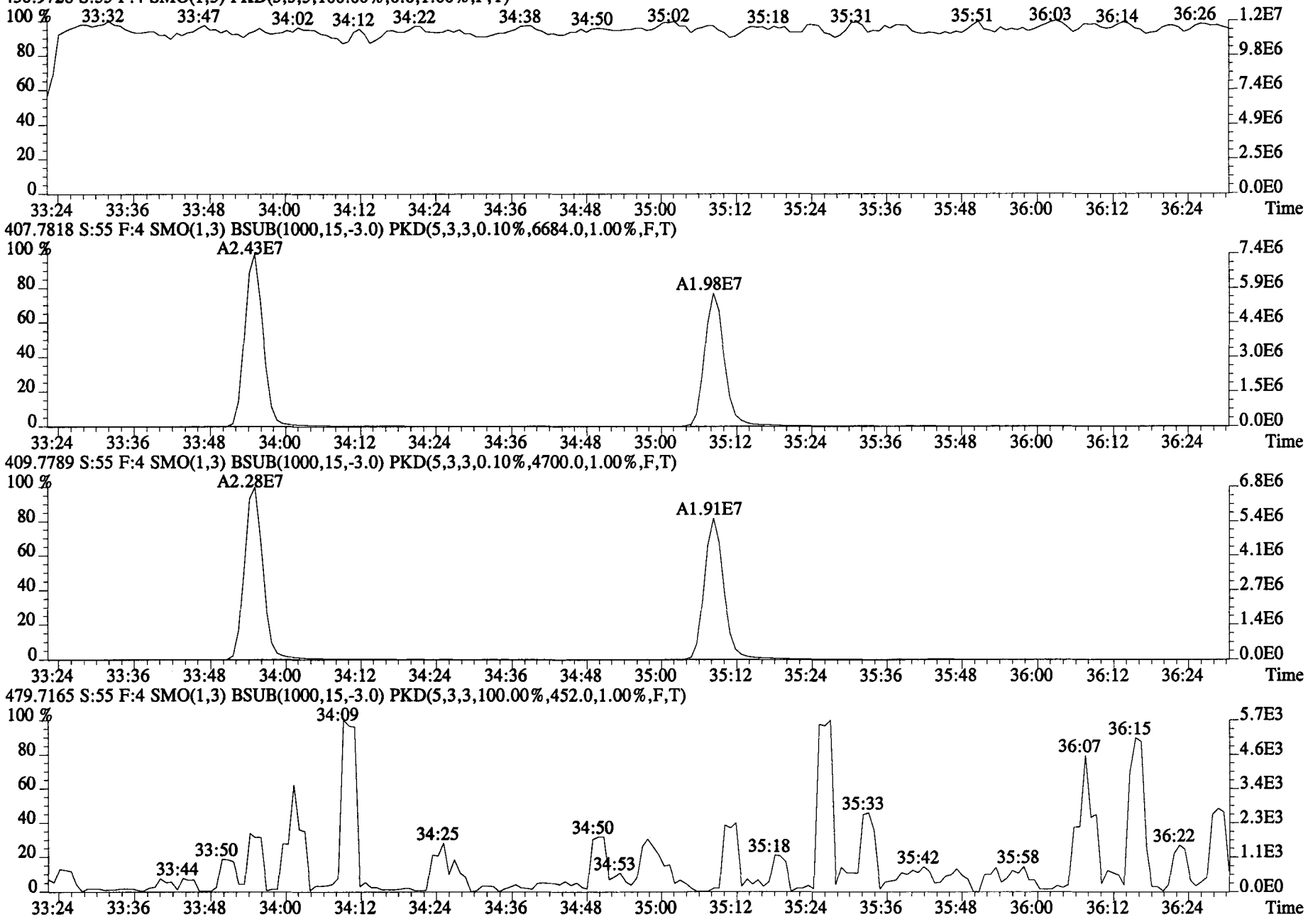
445.7555 S:55 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,440.0,1.00%,F,T)



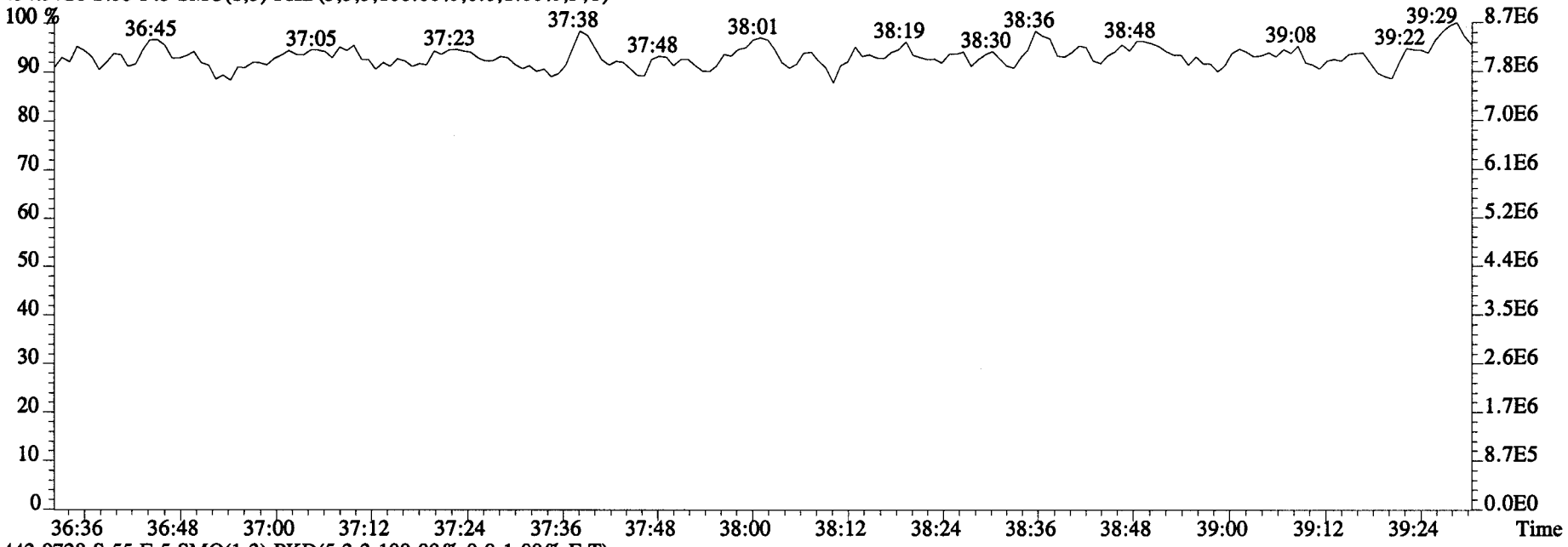
380.9760 S:55 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



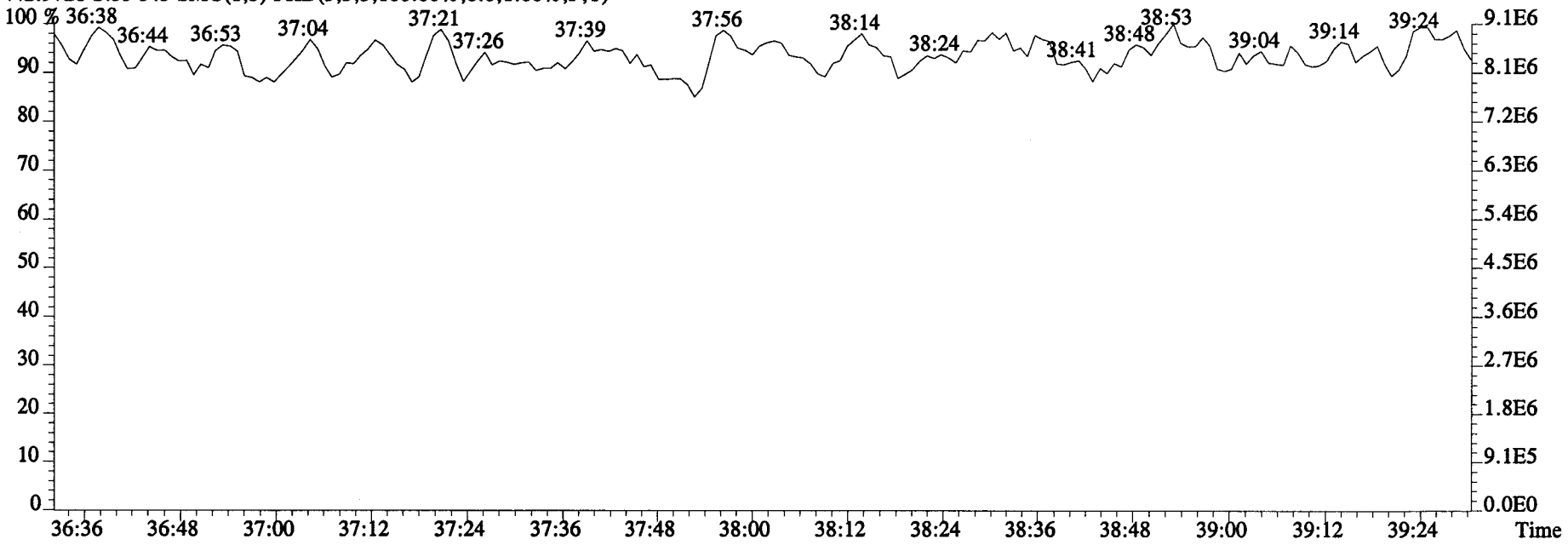
File:16AU10B1D5 #1-214 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES



File:16AU10B1D5 #1-196 Acq:18-AUG-2010 07:45:48 GC EI+ Voltage SIR 70SE
Sample#55 Text:ST0816F :CS3 10DXN336 Exp:DIOXINRES
454.9728 S:55 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:55 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
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Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID DB225 (8290) **Associated ICAL** DB225072610502

Column ID DB225 **Instrument ID** 5D2

STD ID ST0818, ST0818B **STD Solution** 10DXN336

Analyzed by NK, ICSS, AM **Date Analyzed** 8-18-10

Std. Pkg. By NK **Date Std. Pkg. Assembled** 8-19-10

Std. Pkg. Reviewed By AS **Date Std. Pkg. Reviewed** 08-19-10

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

COMMENTS: 2,3,7,8-TCDF in ending std is above 20% but lower than 25%. Average RRF of 0.85 is used to calculate the concentration of the analytes.

NCM = 07-111038

* **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: ST0818 File text: CS-3 10DXN336
Run #6 Filename 18AU105D2 S: 2 I: 1
Acquired: 18-AUG-10 15:29:48 Processed: 18-AUG-10 15:49:47
Run: 21AP105D2 Analyte: DB225 Cal: DB2250726105D2 Results: 18AU105D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	81318900	0.80 y	15:04	-	100.00	-	n
13C-2,3,7,8-TCDF	163212300	0.79 y	16:13	2.01	100.00	-4.9	n
2,3,7,8-TCDF	14223170	0.75 y	16:15	0.87	10.00	-17.5	n
13C-2,3,7,8-TCDD	78583500	0.79 y	14:47	0.97	100.00	9.2	n
2,3,7,8-TCDD	12500130	0.79 y	14:47	1.59	10.00	-2.8	n
37Cl-2,3,7,8-TCDD	12247320	1.00 y	14:47	1.51	10.00	16.8	n

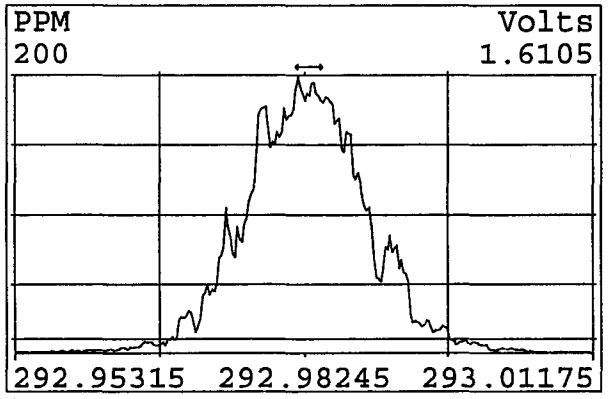
Run text: ST0818B File text: ST0818B :CS3 10DXN336
Run #7 Filename 18AU105D2 S: 14 I: 1
Acquired: 18-AUG-10 22:15:15 Processed: 18-AUG-10 22:40:11
Run: 21AP105D2 Analyte: DB225 Cal: DB2250726105D2 Results: 18AU105D2DB225

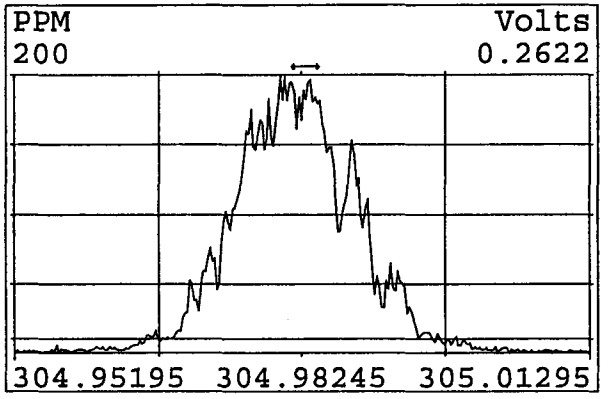
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	82533988	0.77 y	14:60	-	100.00	-	n
13C-2,3,7,8-TCDF	155120688	0.78 y	16:09	1.88	100.00	-11.0	n
2,3,7,8-TCDF	12812843	0.71 y	16:10	0.83	10.00	-21.8	n
13C-2,3,7,8-TCDD	77497200	0.81 y	14:43	0.94	100.00	6.1	n
2,3,7,8-TCDD	12403066	0.79 y	14:43	1.60	10.00	-2.2	n
37Cl-2,3,7,8-TCDD	12232460	1.00 y	14:43	1.48	10.00	14.9	n

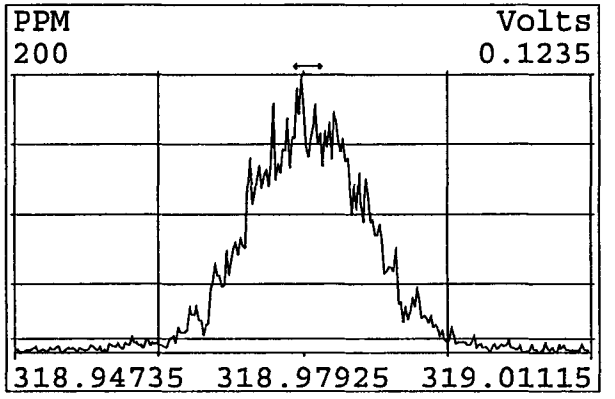
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
18AU105D2	1	CP0818	DB-225 CPSM 3732-06				1.0000	
18AU105D2	2	ST0818	CS3 10DXN336				1.0000	
18AU105D2	3	SB0818	Solvent Blank C-14				1.0000	
18AU105D2	4	L5KMJ-1-AD	G0H130616-2	20	8290/SOLID	95	10.1200	g
18AU105D2	5	L5KMK-1-AD	G0H130616-3	20	8290/SOLID		10.5300	g
18AU105D2	6	L5KJ5-1-AD	G0H130600-5	20	8290/SOLID		10.7300	g
18AU105D2	7	L5LAR-1-AA	G0H140454-2	20	8290/SOLID		0.5000	g
18AU105D2	8	L43HD-1-AF	F0H040461-9	20	8290/SOLID		10.1300	g
18AU105D2	9	L5KL5-1-AD	G0H130611-1	20	8290/SOLID	97	10.4900	g
18AU105D2	10	L5KL8-1-AD	G0H130611-2	20	8290/SOLID		10.6900	g
18AU105D2	11	L5KL9-1-AD	G0H130611-3	20	8290/SOLID		10.1800	g
18AU105D2	12	ST0818A	CS3 10DXN336				1.0000	
18AU105D2	13	CP0818A	DB-225 CPSM 3732-06				1.0000	
18AU105D2	14	ST0818B	CS3 10DXN336				1.0000	
18AU105D2	15	SB0818A	Solvent Blank C-14				1.0000	
18AU105D2	16	L5KMA-1-AD	G0H130611-4	20	8290/SOLID	97	10.3000	g
18AU105D2	17	L5KMD-1-AD	G0H130614-1	20	8290/SOLID		10.0200	g
18AU105D2	18	L5KME-1-AD	G0H130614-2	20	8290/SOLID		10.5600	g
18AU105D2	19	L49H9-1-AC	G0H060658-4	20	8290/SOLID	94	10.0300	g
18AU105D2	20	L49JA-1-AC	G0H060658-5	20	8290/SOLID		10.3300	g
18AU105D2	21	L49JC-1-AC	G0H060658-6	20	8290/SOLID		10.1900	g
18AU105D2	22	L49JE-1-AC	G0H060658-8	20	8290/SOLID		10.0600	g
18AU105D2	23	L49JG-1-AC	G0H060658-10	20	8290/SOLID		10.2700	g
18AU105D2	24	L49JH-1-AC	G0H060658-11	20	8290/SOLID		10.5600	g
18AU105D2	25	L49JK-1-AC	G0H060658-13	20	8290/SOLID		10.1300	g
18AU105D2	26	L49JL-1-AC	G0H060658-14	20	8290/SOLID		10.4900	g
18AU105D2	27	L46FE-1-AC	G0H050544-3	20	8290/SOLID	92	10.4700	g
18AU105D2	28	L46WJ-1-AC	G0H050601-2	20	8290/SOLID	96	10.2000	g
18AU105D2	29	L46WL-1-AC	G0H050601-3	20	8290/SOLID		10.0400	g
18AU105D2	30	SB0818B	Solvent Blank C-14				1.0000	
18AU105D2	31	ST0818C	CS3 10DXN336				1.0000	
18AU105D2	32	CP0818B	DB-225 CPSM 3732-06				1.0000	
18AU105D2	33	SB0818C	Solvent Blank C-14				1.0000	
18AU105D2	34	L46WL-1-AA	G0H050601-4	20	8290/SOLID	96	10.0000	g
18AU105D2	35	L44QG-1-AA	G0H040630-1	20	8290/SOLID	89	10.1800	g
18AU105D2	36	L44QC-1-AC	G0H040628-1	20	8290/SOLID	87	5.3700	g
18AU105D2	37	L44QQ-1-AC	G0H040628-4	20	8290/SOLID		5.0100	g
18AU105D2	38	L44QT-1-AC	G0H040628-5	20	8290/SOLID		5.0400	g
18AU105D2	39	L44Q4-1-AC	G0H040628-9	20	8290/SOLID		5.7600	g
18AU105D2	40	L44NF-1-AA	G0H040623-1	20	8290/SOLID	89	10.0400	g
18AU105D2	41	L44NH-1-AA	G0H040623-2	20	8290/SOLID		10.0300	g
18AU105D2	42	L48JW-1-AA	G0H060558-1	20	8290/SOLID	92	10.1900	g
18AU105D2	43						1.0000	
18AU105D2	44						1.0000	
18AU105D2	45						1.0000	
18AU105D2	46		KSS, NK, AM 08-18-10				1.0000	

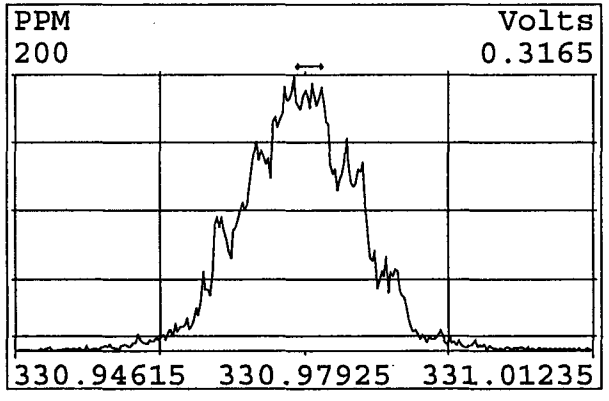
log file reviewed
8-18-10 am

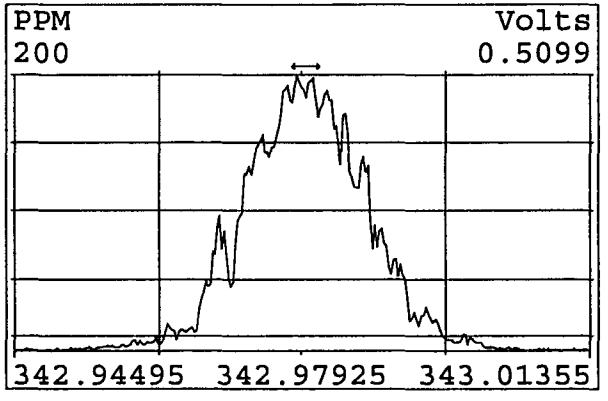
Peak Locate Examination:18-AUG-2010:14:54 File:18AU105D2
Experiment:DB225RES Function:1 Reference:PFK

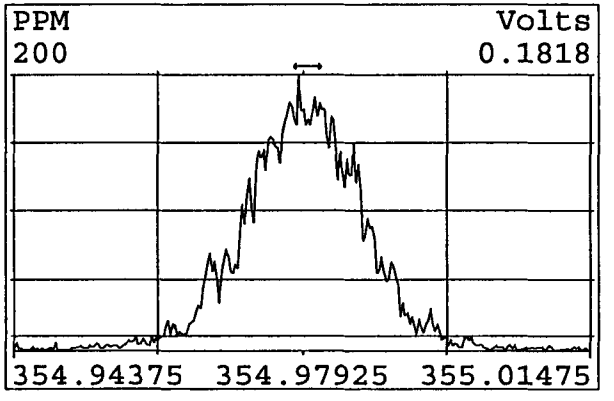


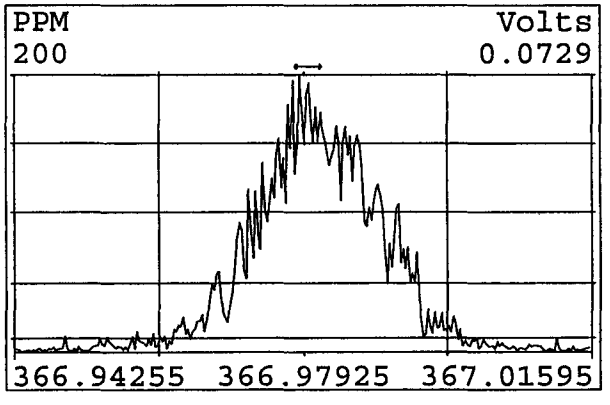


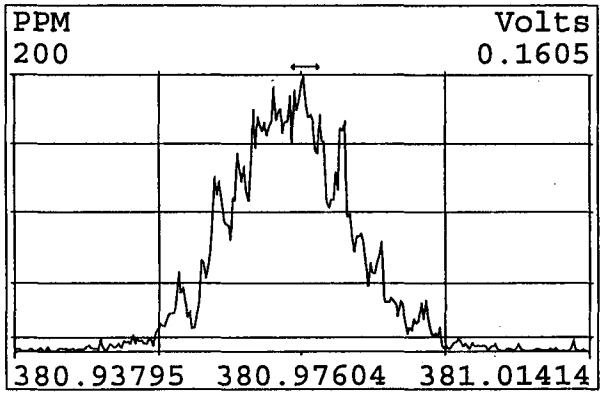




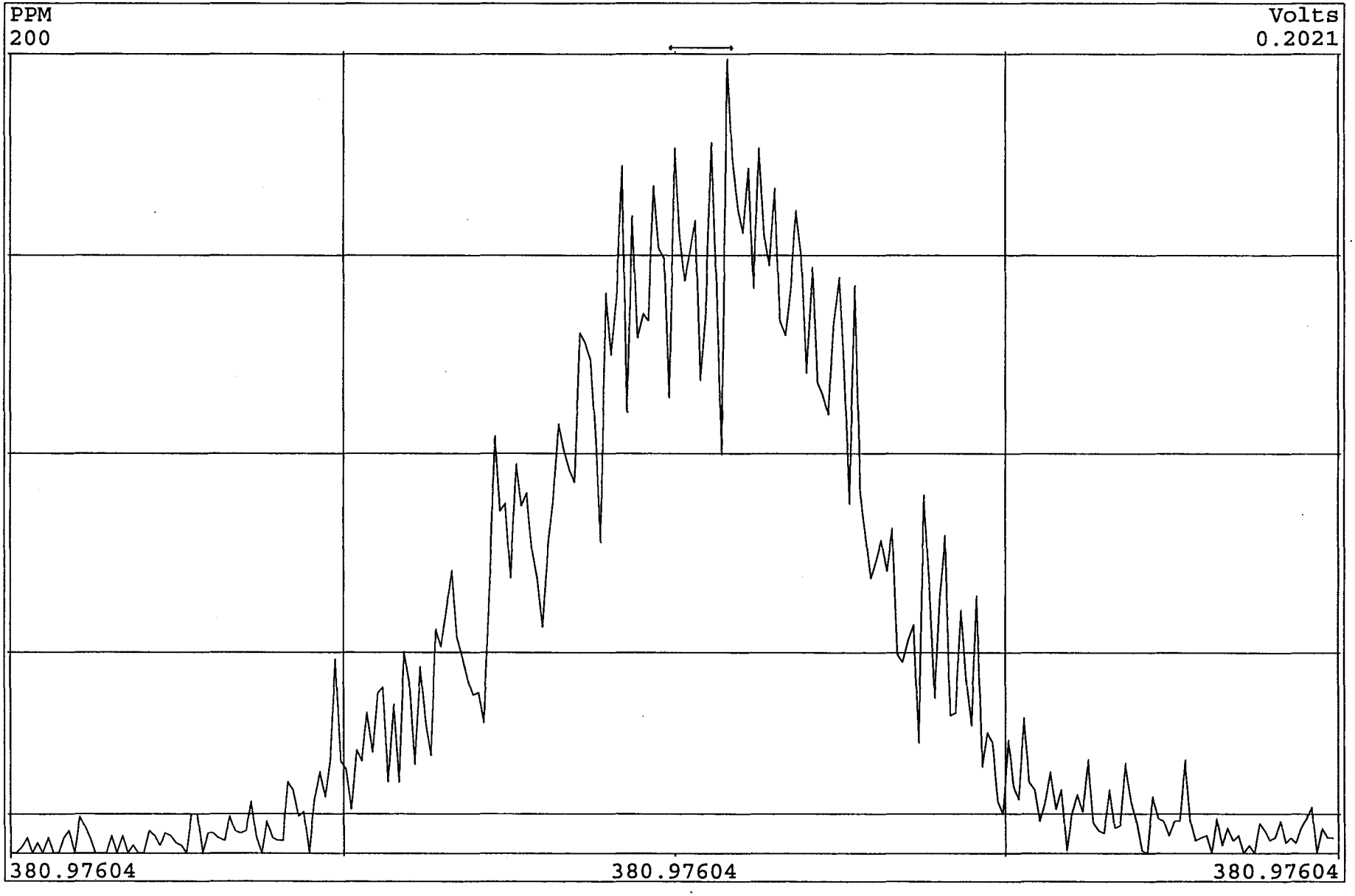




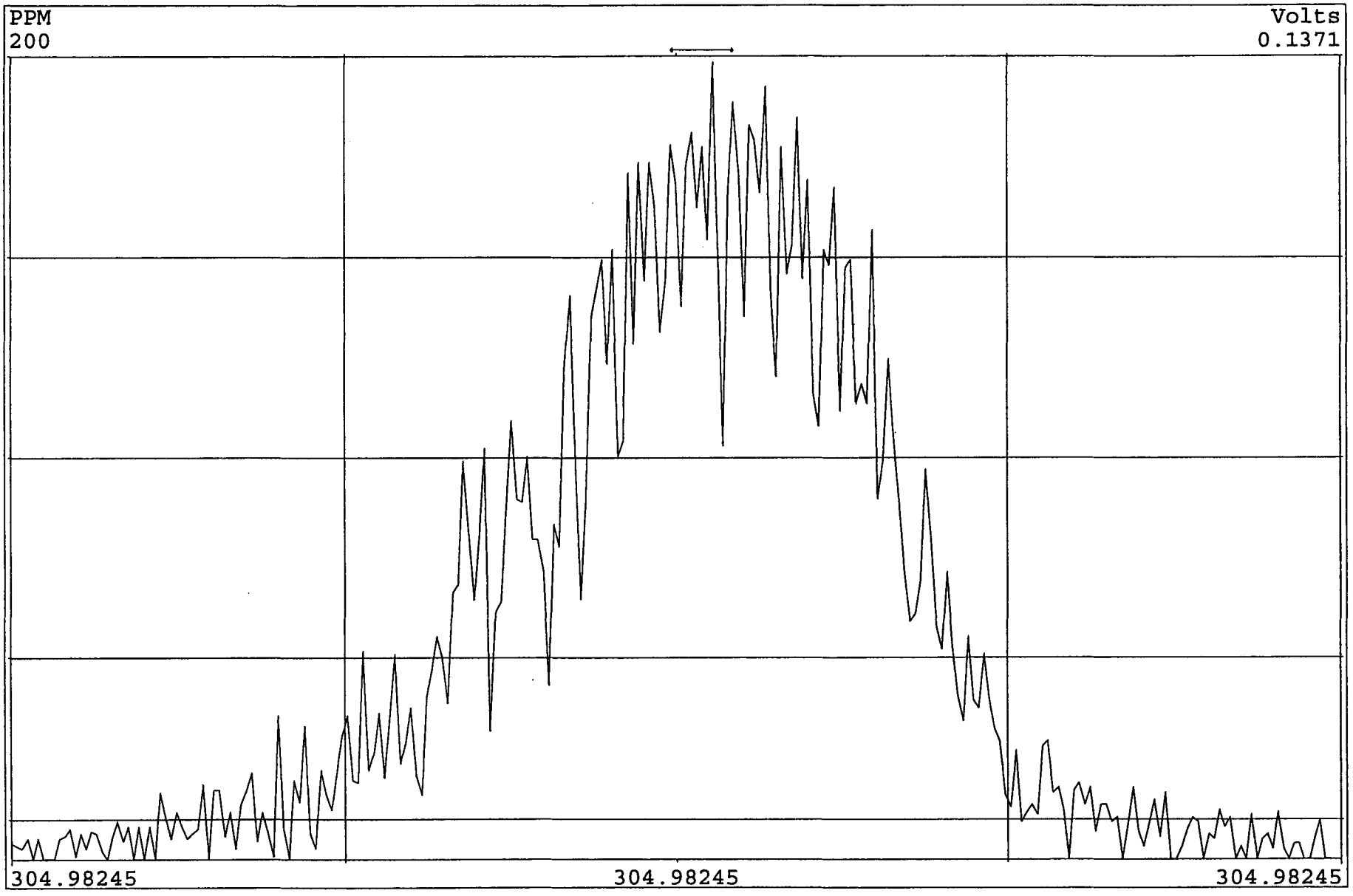




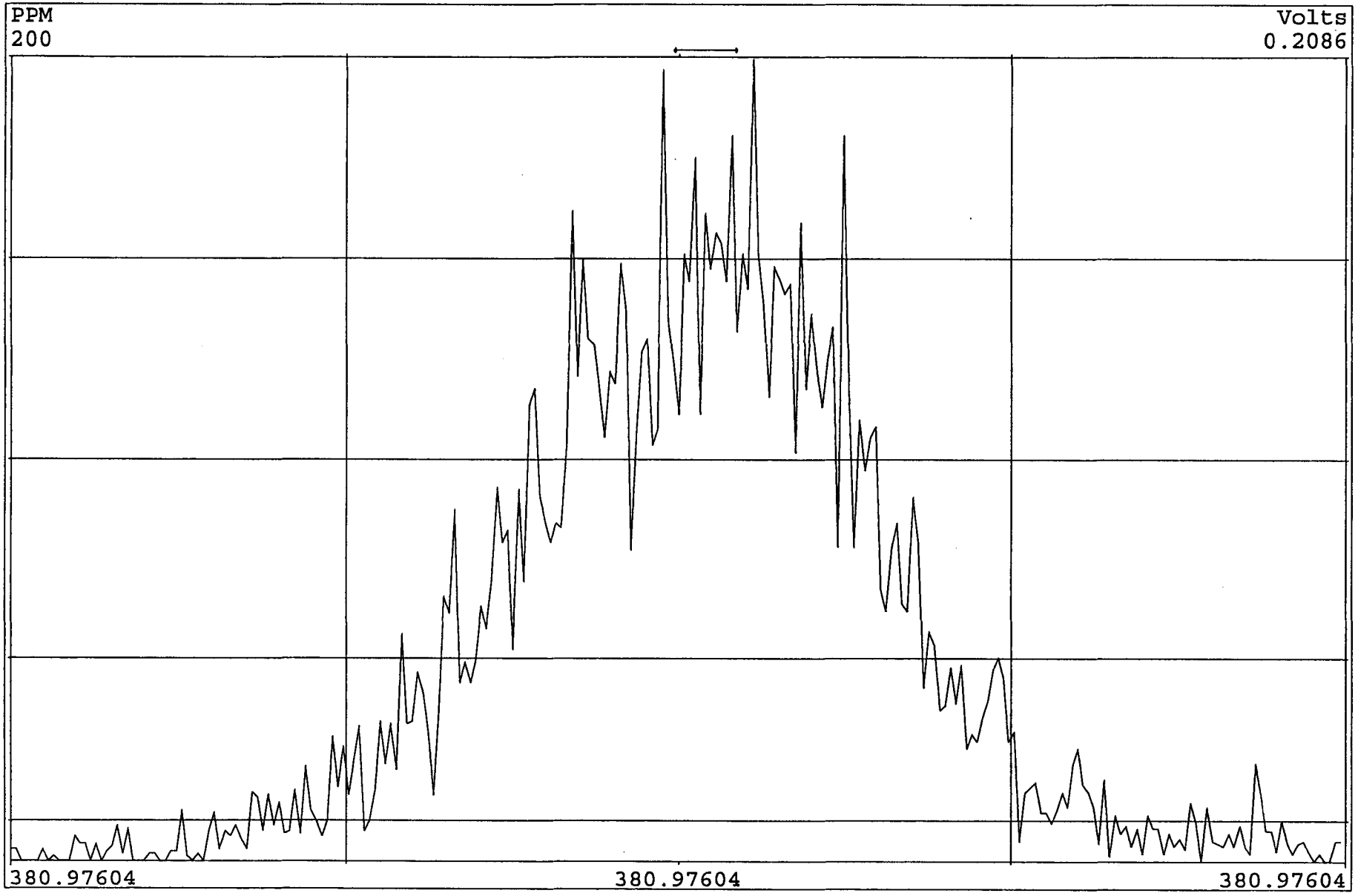
SIRLM Examination:18-AUG-2010:20:59 File:18AU105D2
Experiment:DB225RES Function:2



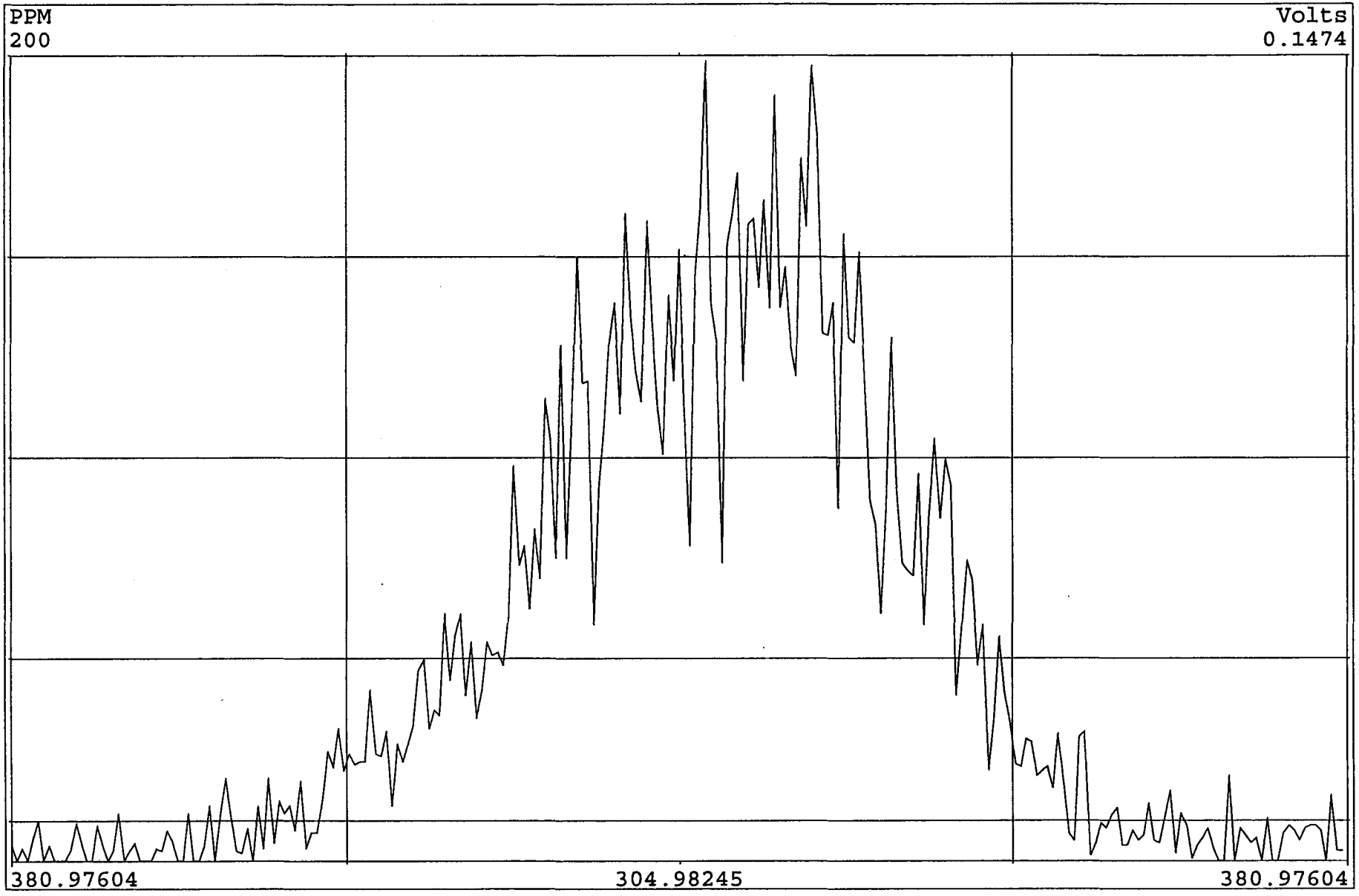
SIRLM Examination:18-AUG-2010:21:01 File:18AU105D2
Experiment:DB225RES Function:3



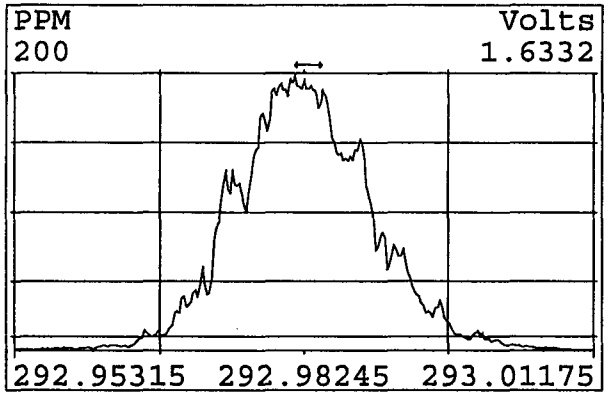
SIRLM Examination:18-AUG-2010:21:33 File:18AU105D2
Experiment:DB225RES Function:2

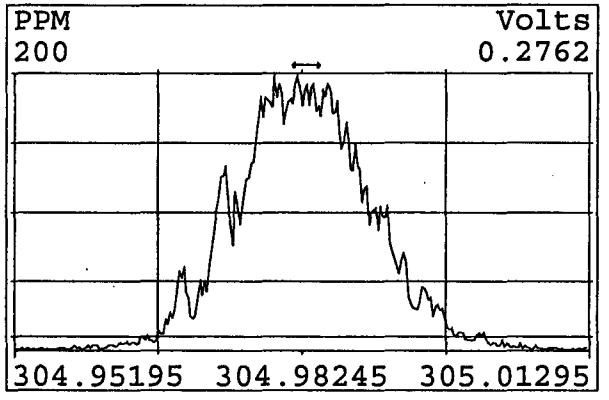


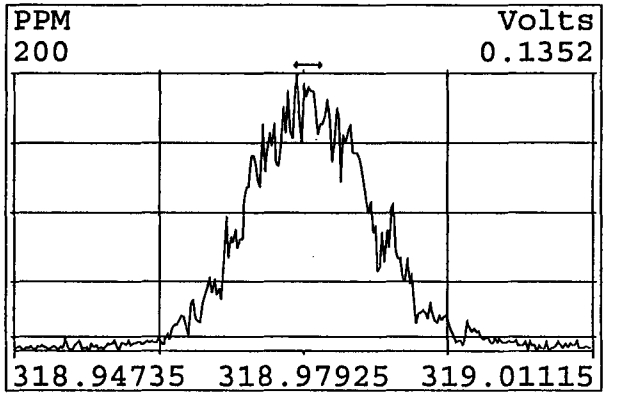
SIRLM Examination:18-AUG-2010:21:34 File:18AU105D2
Experiment:DB225RES Function:3

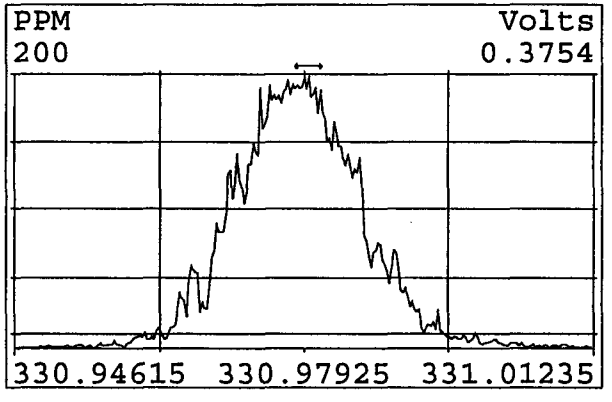


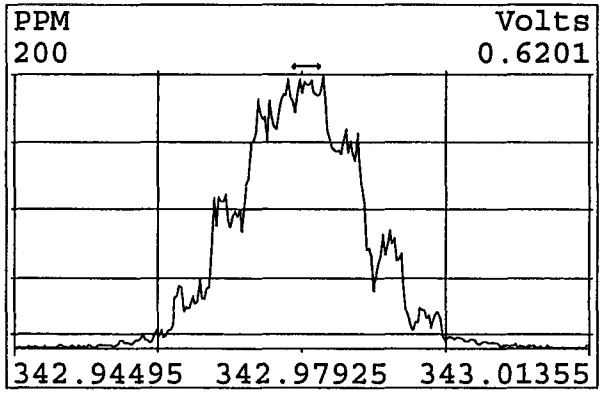
Peak Locate Examination:18-AUG-2010:23:00 File:RESCHK18AU105D2
Experiment:DB225RES Function:1 Reference:PFK

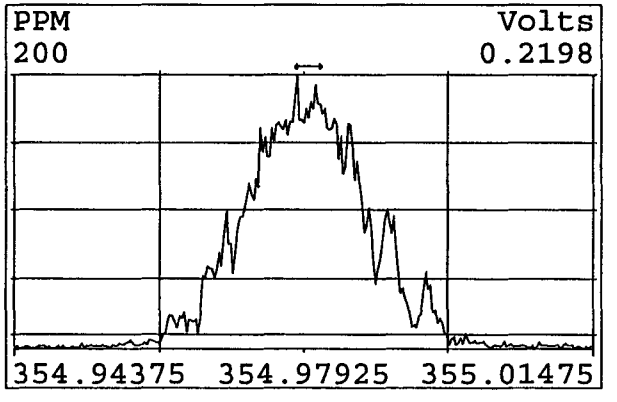


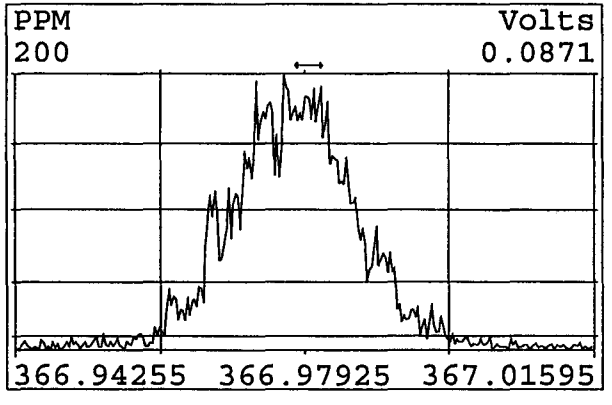


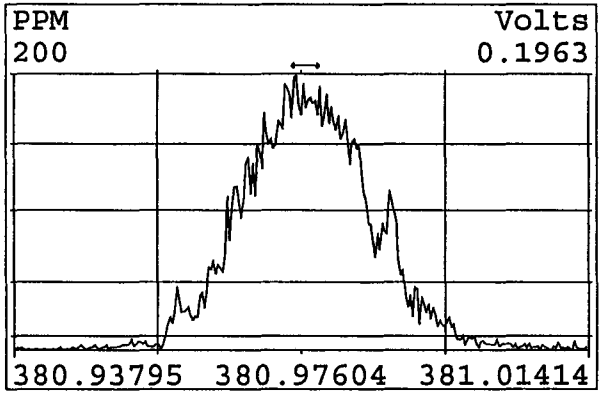




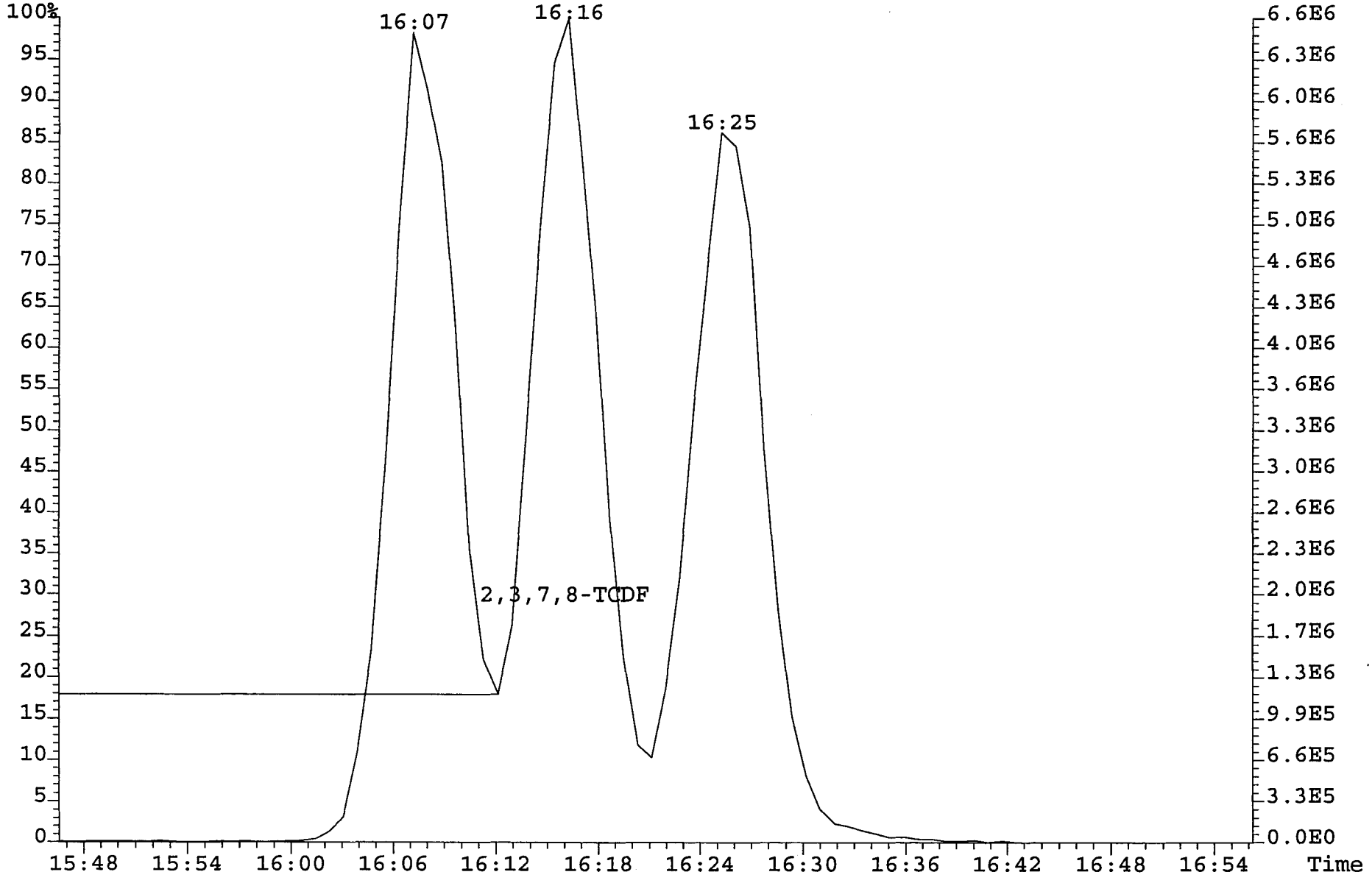








File:18AU105D2 #1-709 Acq:18-AUG-2010 14:56:02 GC EI+ Voltage SIR 70SE
Sample#1 Exp:DB225RES
303.9016 BSUB(128,15,-3.0)

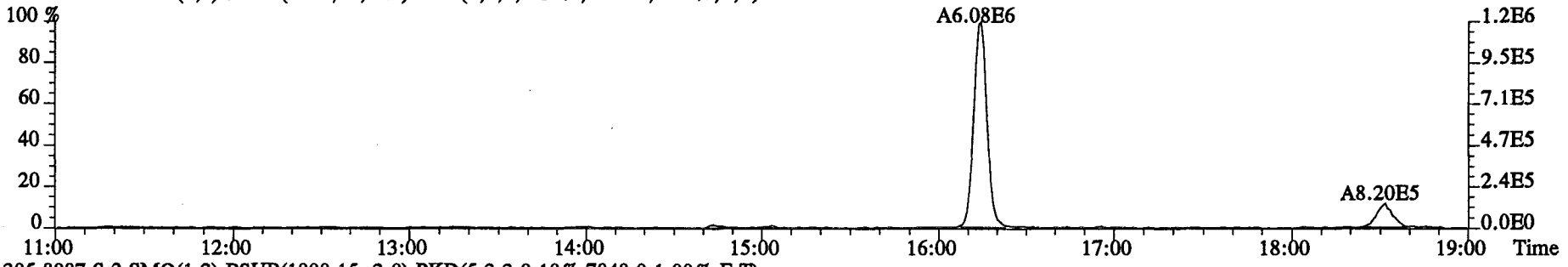


Run: 21AP105D2 Analyte: DB225 Cal: DB2250726105D2

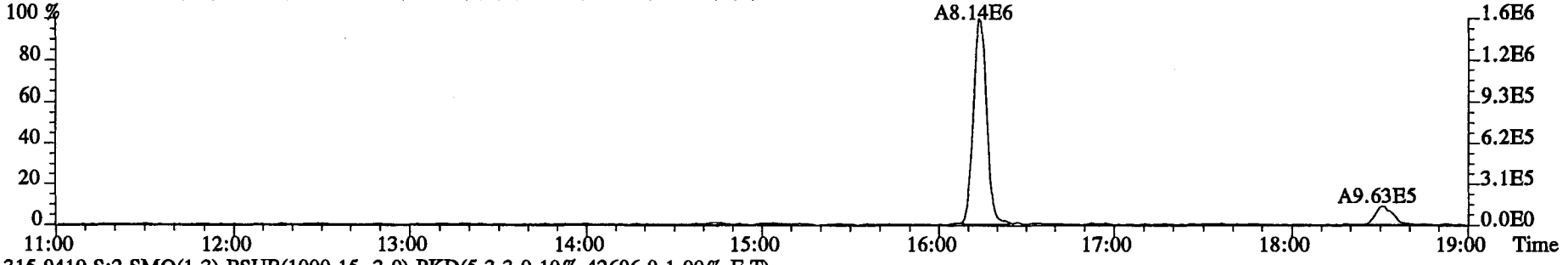
ST0726A :CS-1 10DXN342 RI ST0726B :CS-2 10DXN335 ST0726C :CS-3 10DXN336
ST0726E :CS-4 10DXN337 ST0726D :CS-5 10DXN339

Name	Mean	S. D.	%RSD	26JL105D2 S6 RRF1	26JL105D2 S5 RRF2	26JL105D2 S7 RRF3	26JL105D2 S9 RRF4	26JL105D2 S8 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.290	0.038	2.92 %	1.28	1.24	1.34	1.28	1.31

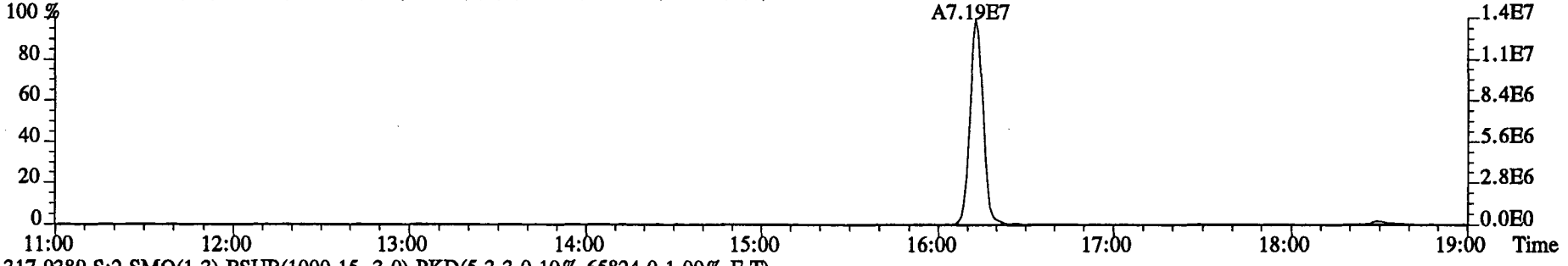
File:18AU105D2 #1-1242 Acq:18-AUG-2010 15:29:48 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0818 :CS3 10DXN336 Exp:DB225RES
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6272.0,1.00%,F,T)



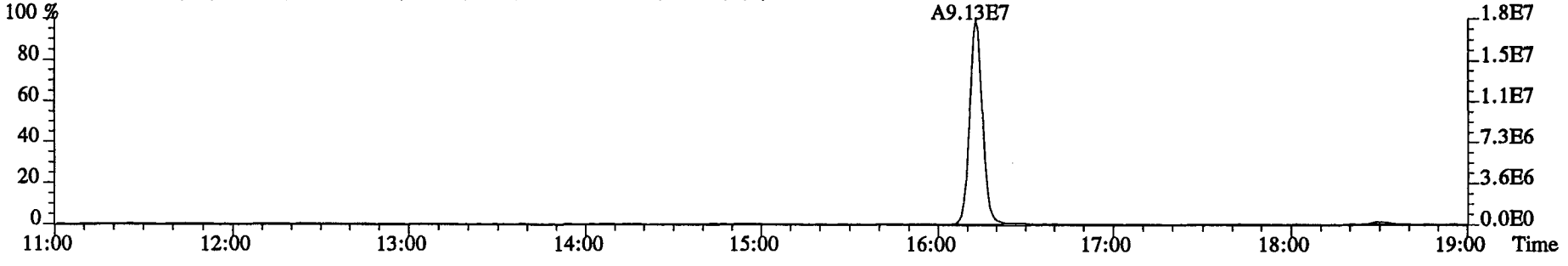
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7848.0,1.00%,F,T)



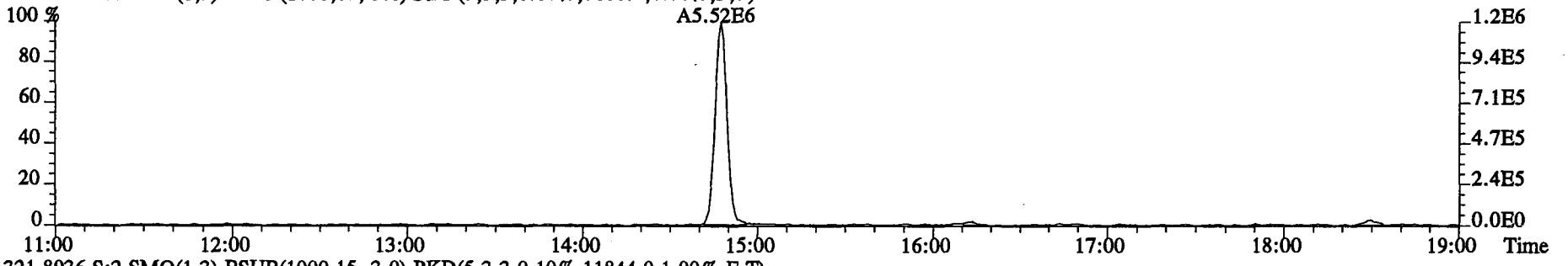
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,42696.0,1.00%,F,T)



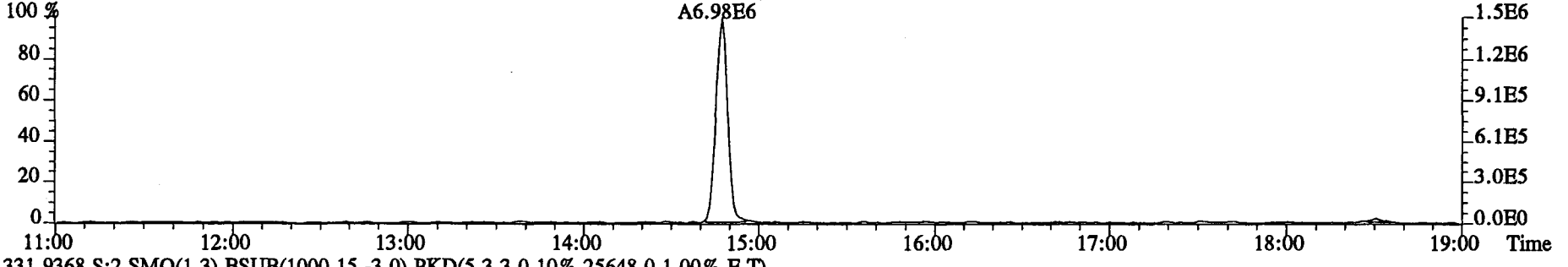
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,65824.0,1.00%,F,T)



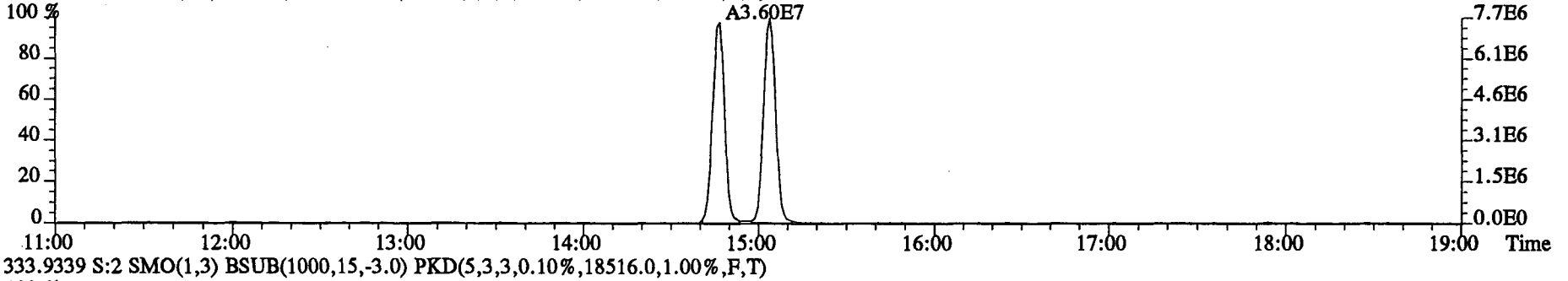
File:18AU105D2 #1-1242 Acq:18-AUG-2010 15:29:48 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0818 :CS3 10DXN336 Exp:DB225RES
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7600.0,1.00%,F,T)



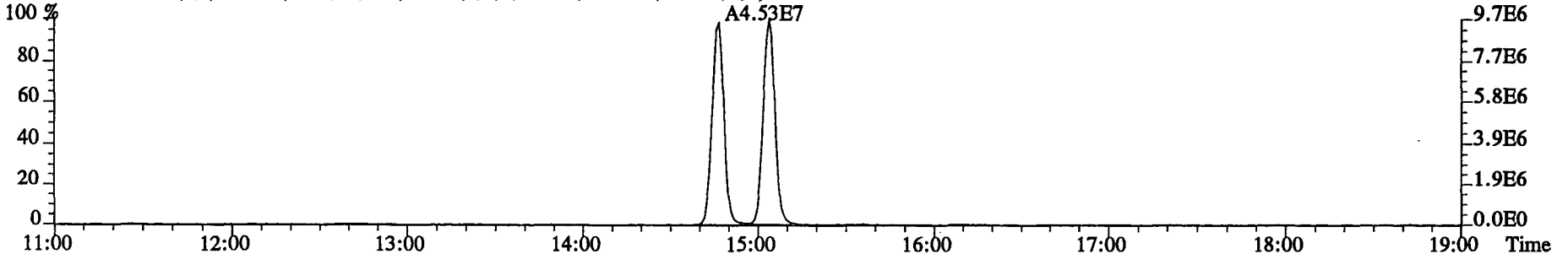
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11844.0,1.00%,F,T)



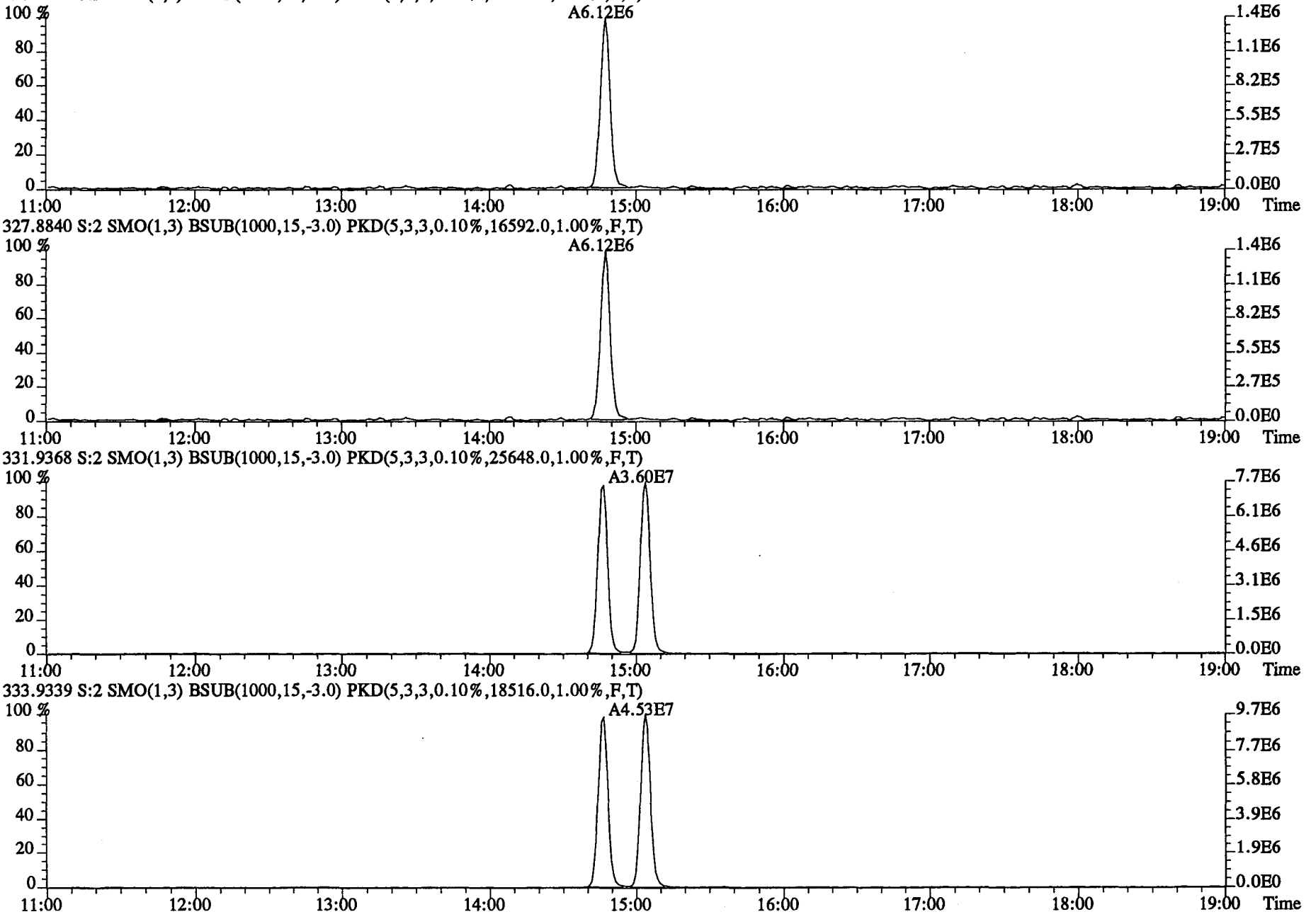
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25648.0,1.00%,F,T)



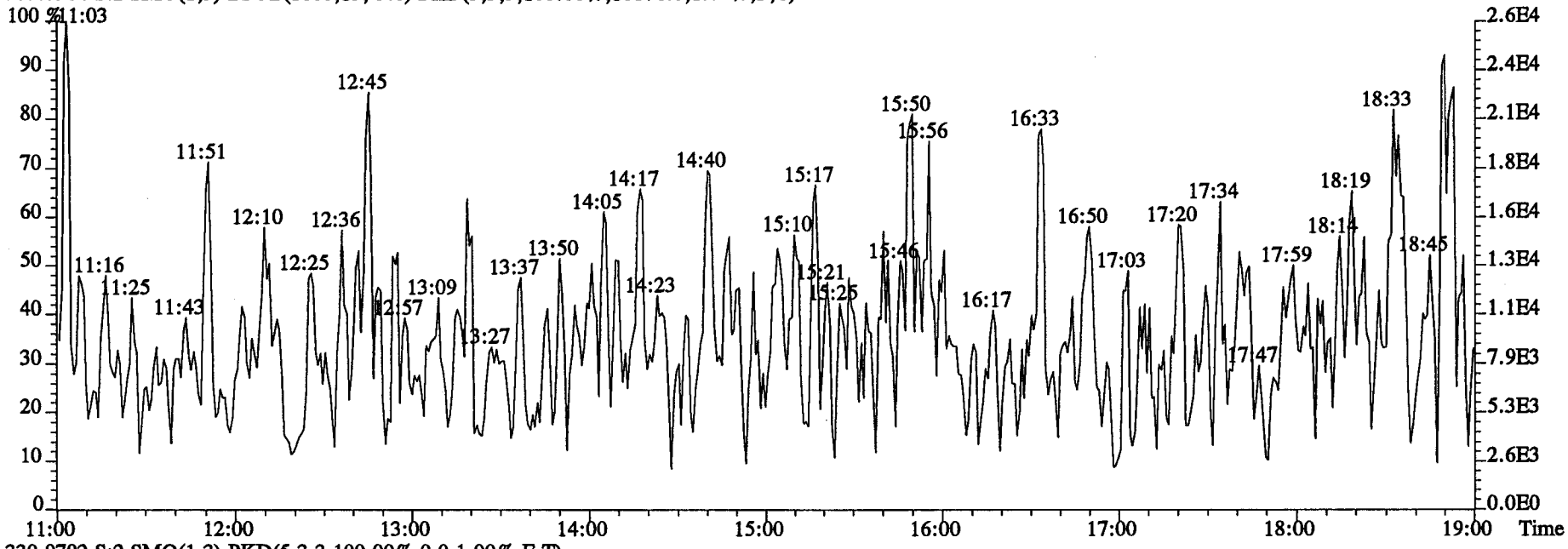
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18516.0,1.00%,F,T)



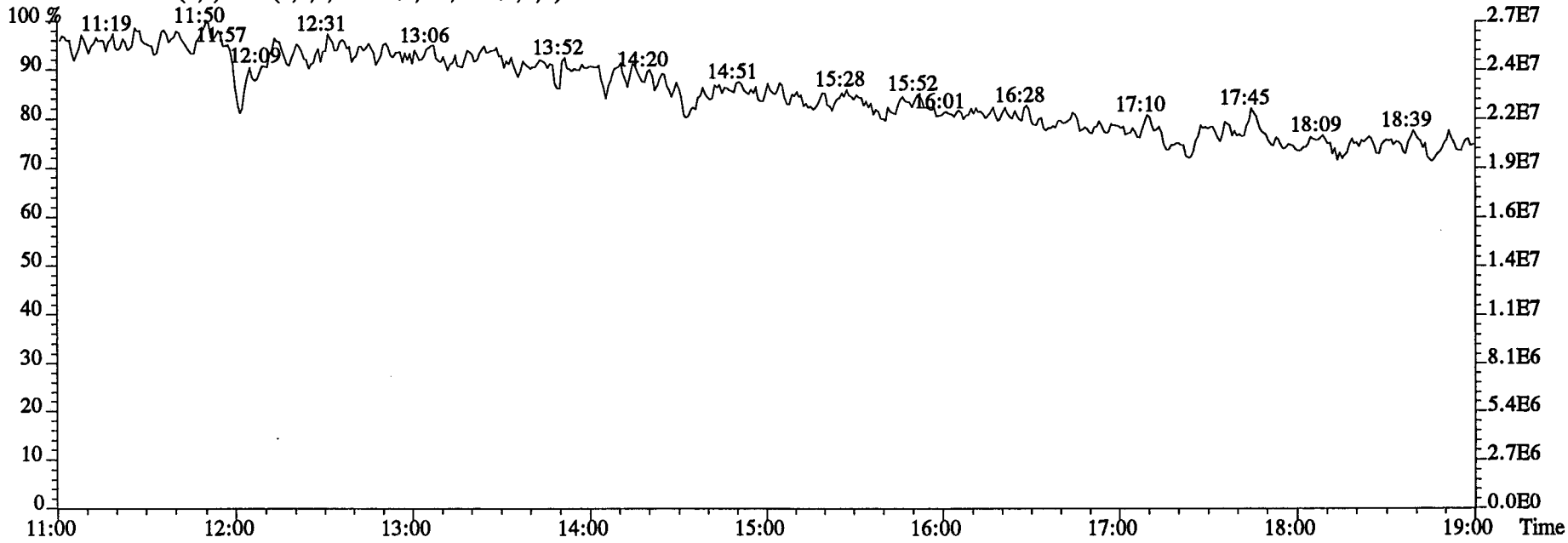
File:18AU105D2 #1-1242 Acq:18-AUG-2010 15:29:48 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0818 :CS3 10DXN336 Exp:DB225RES



File:18AU105D2 #1-1242 Acq:18-AUG-2010 15:29:48 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0818 :CS3 10DXN336 Exp:DB225RES
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,10876.0,1.00%,F,T)

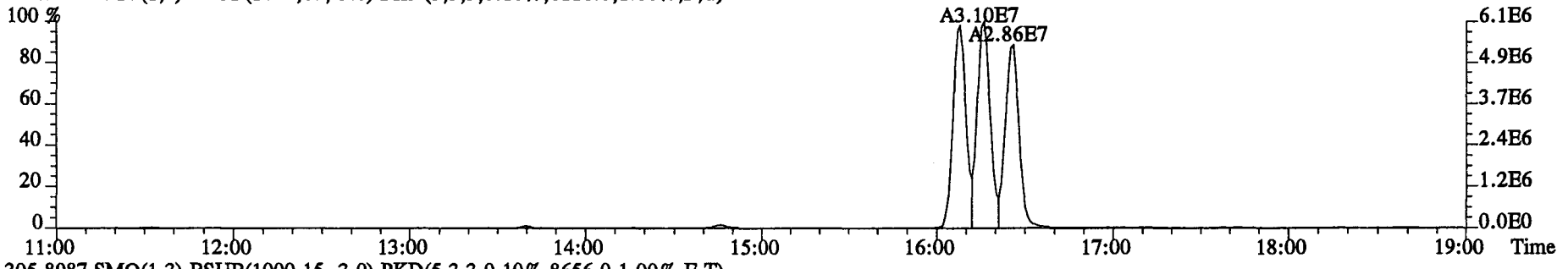


330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

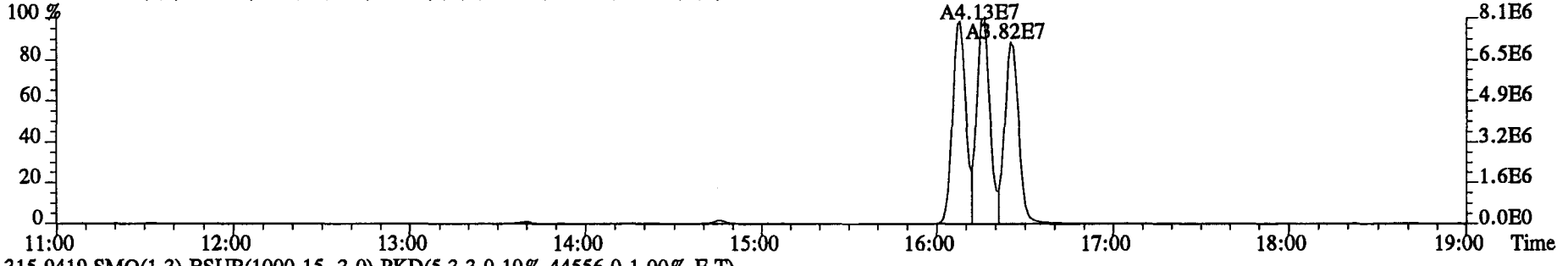


File:18AU105D2 #1-1242 Acq:18-AUG-2010 14:56:02 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0818 :DB-225 CPSM 3732-06 Exp:DB225RES

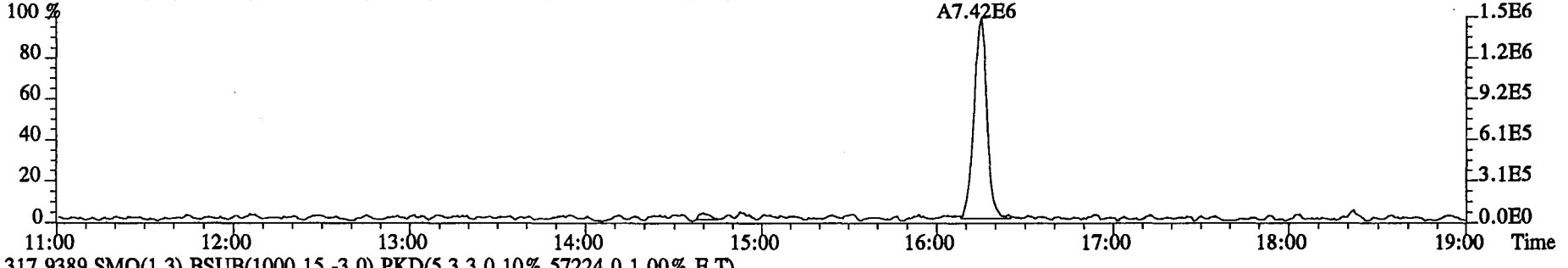
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6116.0,1.00%,F,T)



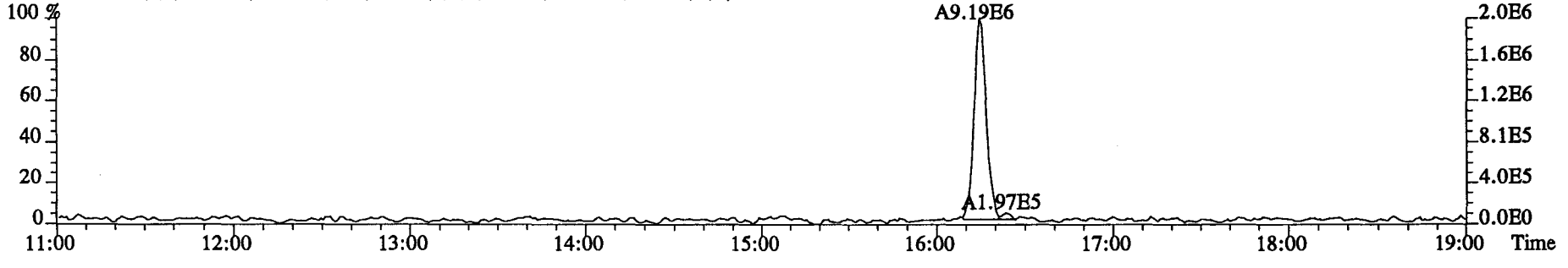
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8656.0,1.00%,F,T)



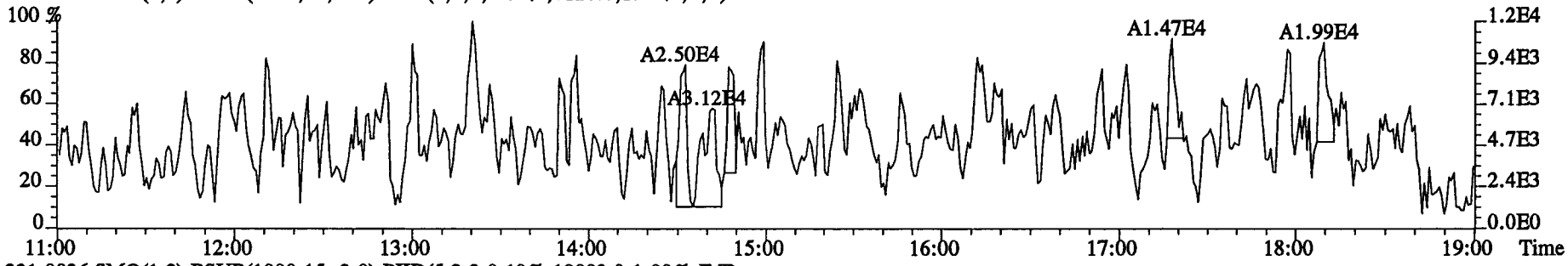
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44556.0,1.00%,F,T)



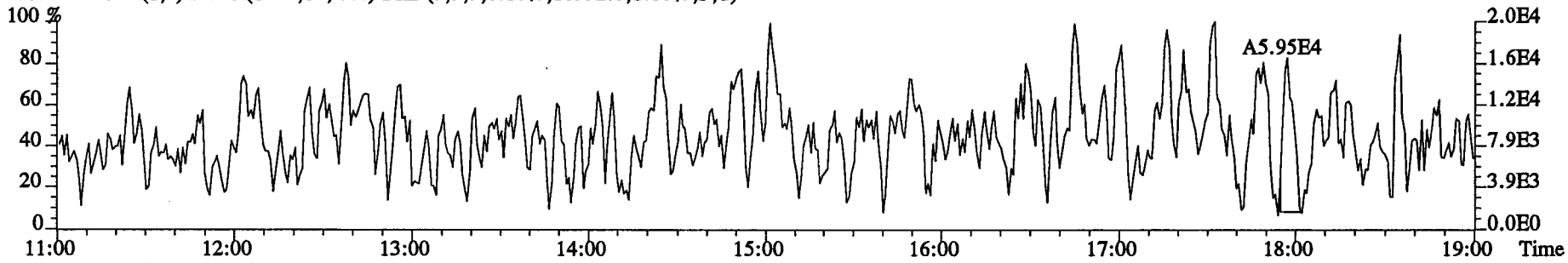
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57224.0,1.00%,F,T)



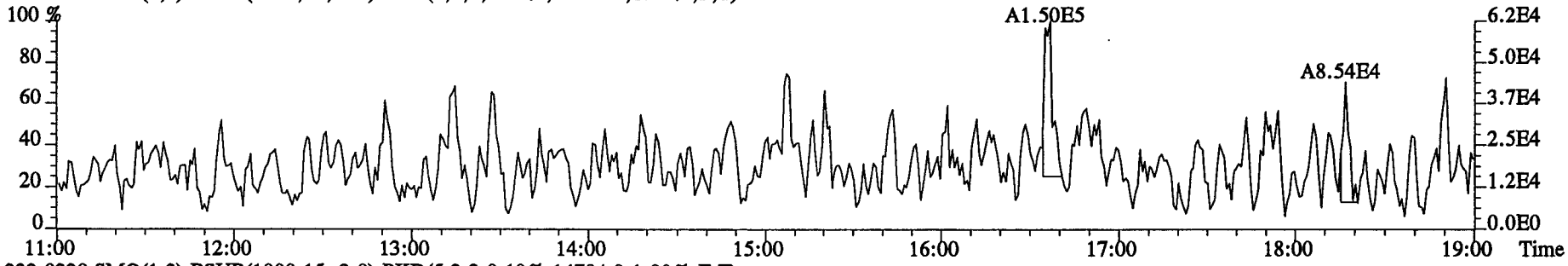
File:18AU105D2 #1-1242 Acq:18-AUG-2010 14:56:02 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0818 :DB-225 CPSM 3732-06 Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6128.0,1.00%,F,T)



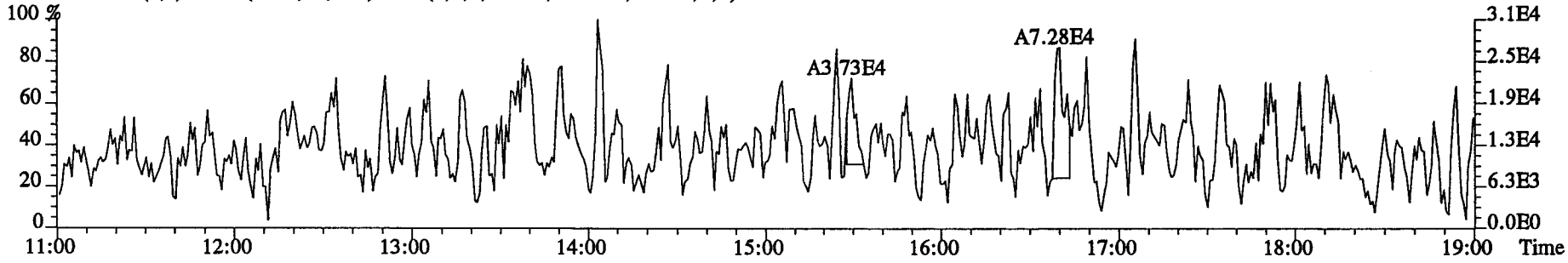
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10992.0,1.00%,F,T)



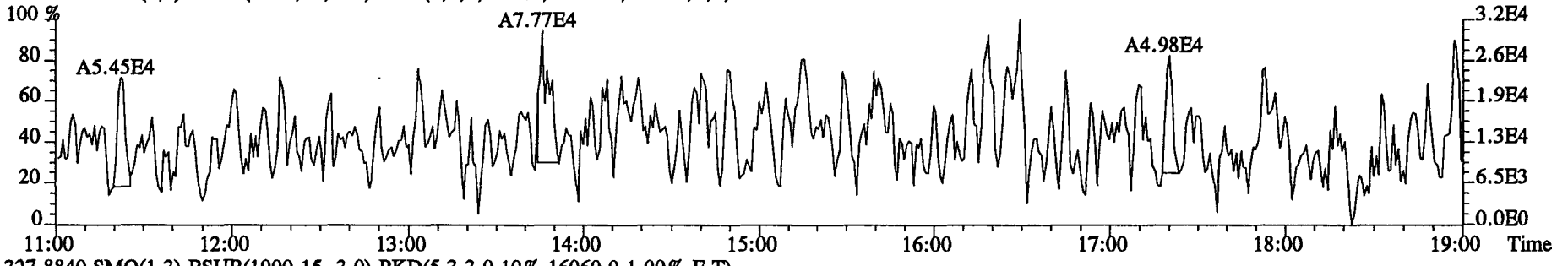
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22660.0,1.00%,F,T)



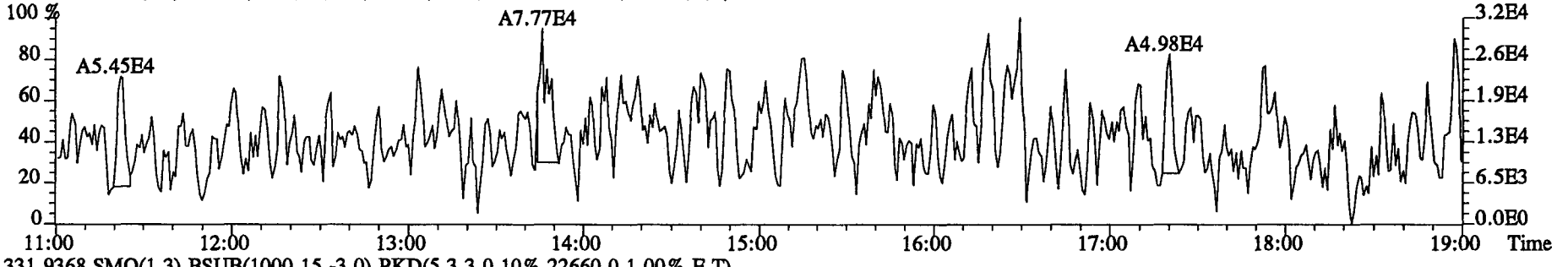
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14784.0,1.00%,F,T)



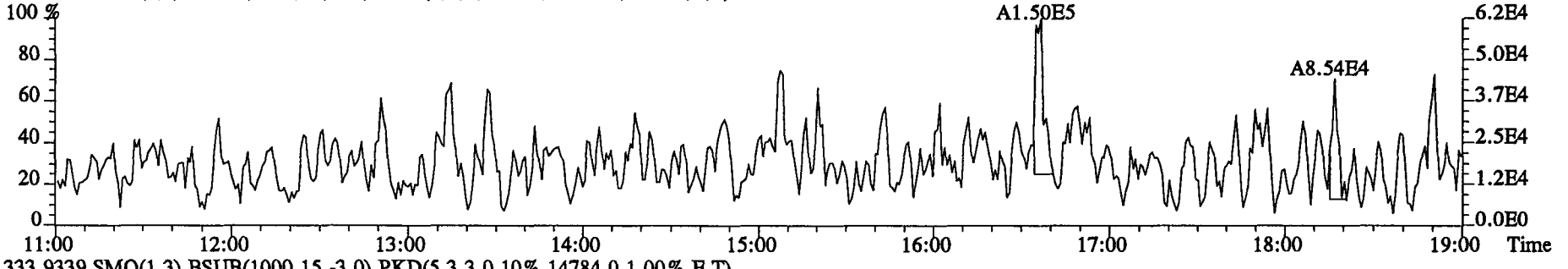
File:18AU105D2 #1-1242 Acq:18-AUG-2010 14:56:02 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0818 :DB-225 CPSM 3732-06 Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16060.0,1.00%,F,T)



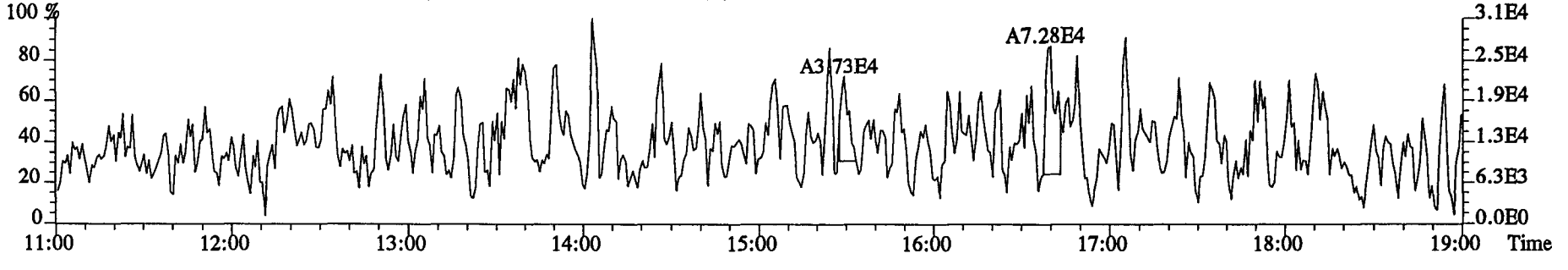
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16060.0,1.00%,F,T)



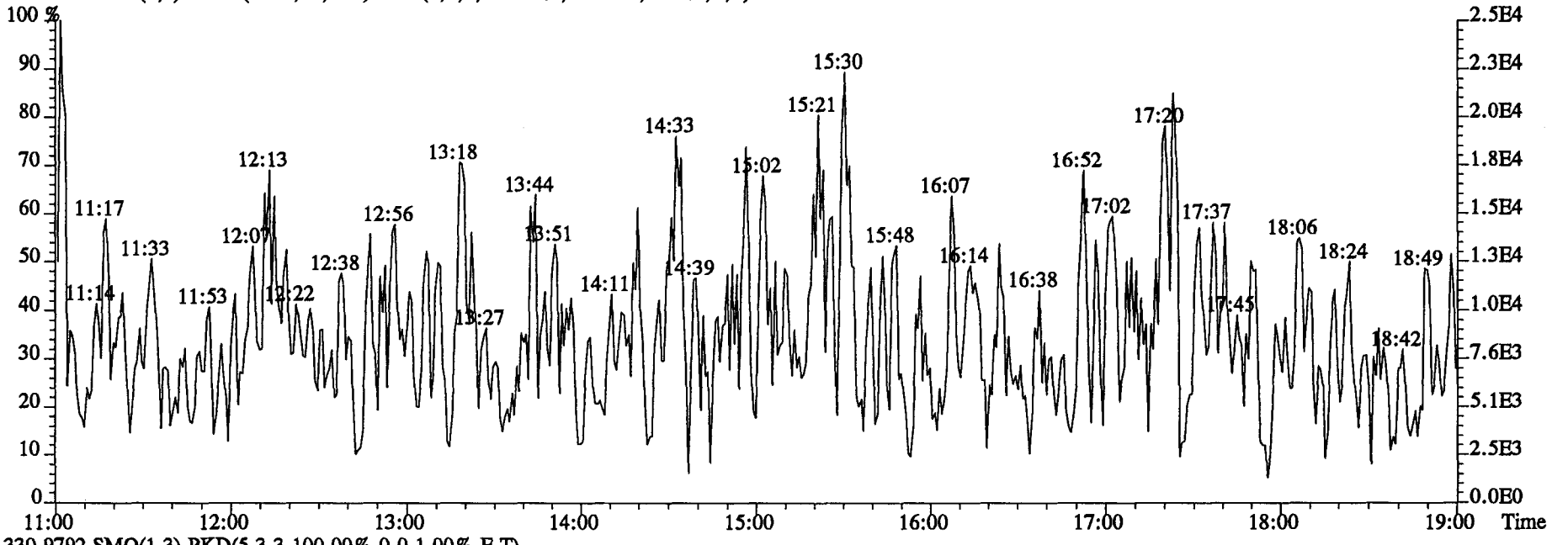
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22660.0,1.00%,F,T)



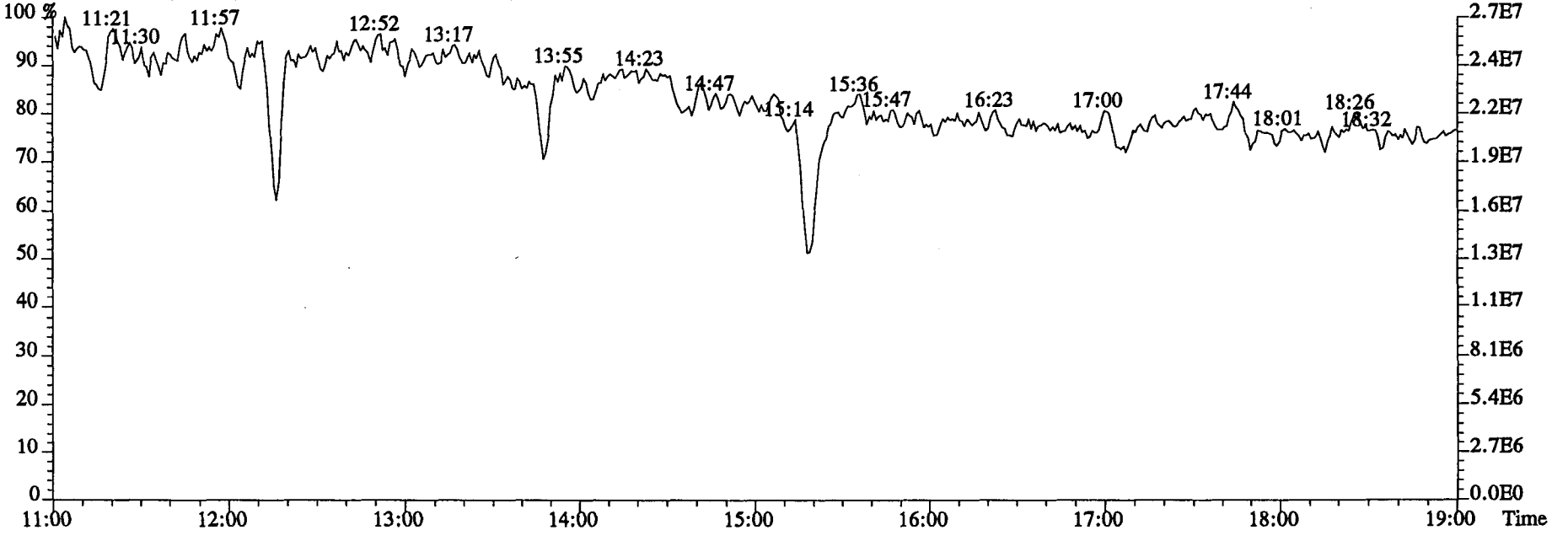
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14784.0,1.00%,F,T)



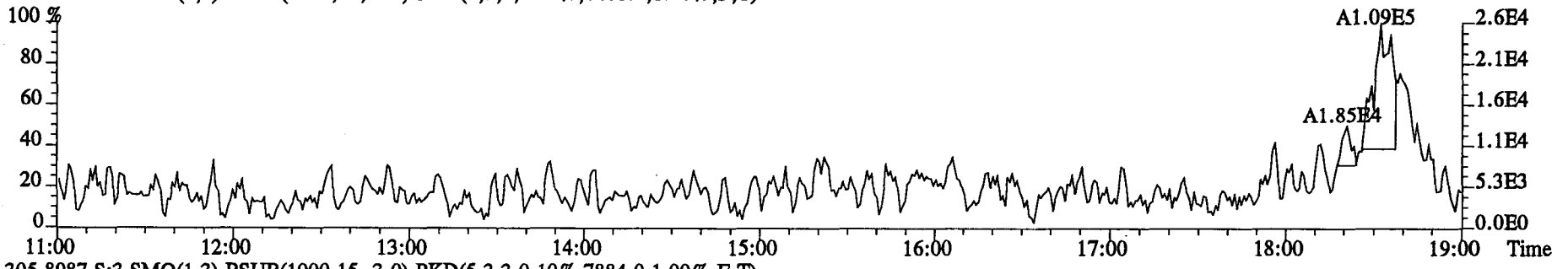
File:18AU105D2 #1-1242 Acq:18-AUG-2010 14:56:02 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0818 :DB-225 CPSM 3732-06 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,10420.0,1.00%,F,T)



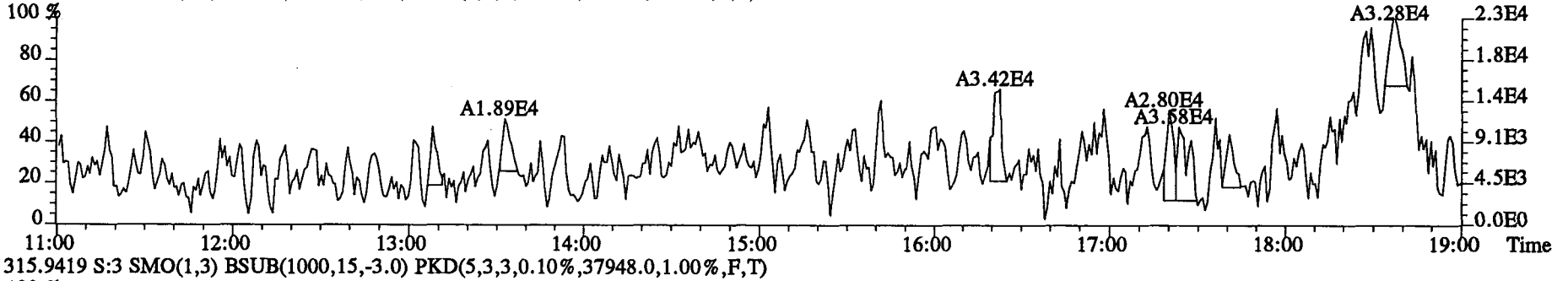
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



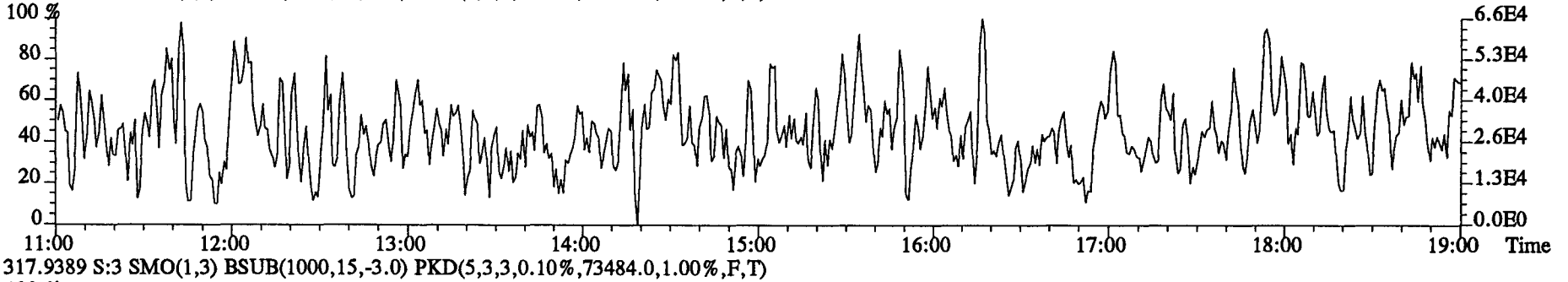
File:18AU105D2 #1-1242 Acq:18-AUG-2010 16:03:35 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB0818 :Solvent Blank C-14 Exp:DB225RES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6408.0,1.00%,F,T)



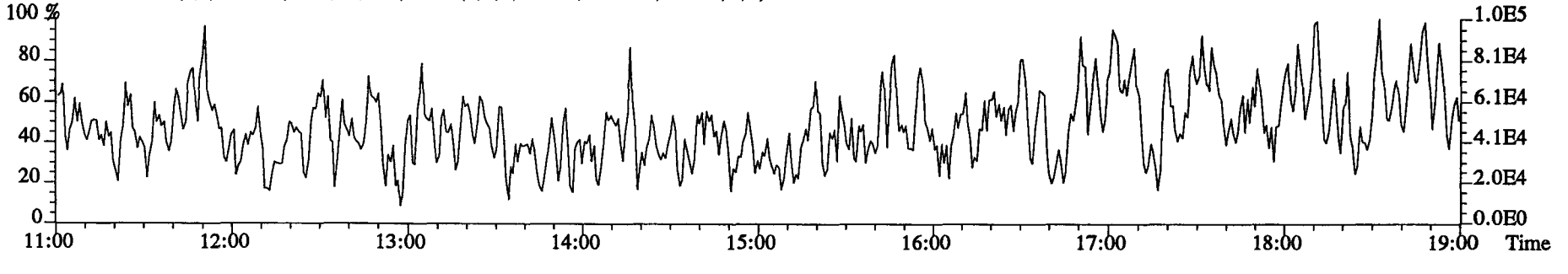
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7884.0,1.00%,F,T)



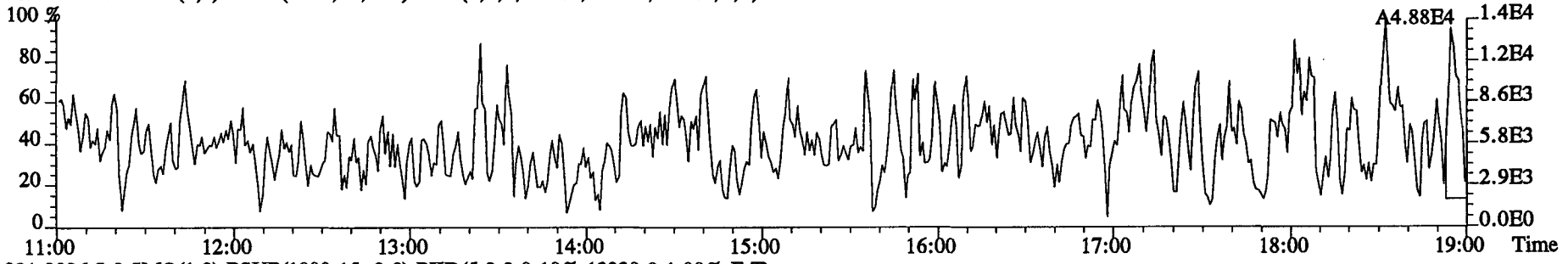
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37948.0,1.00%,F,T)



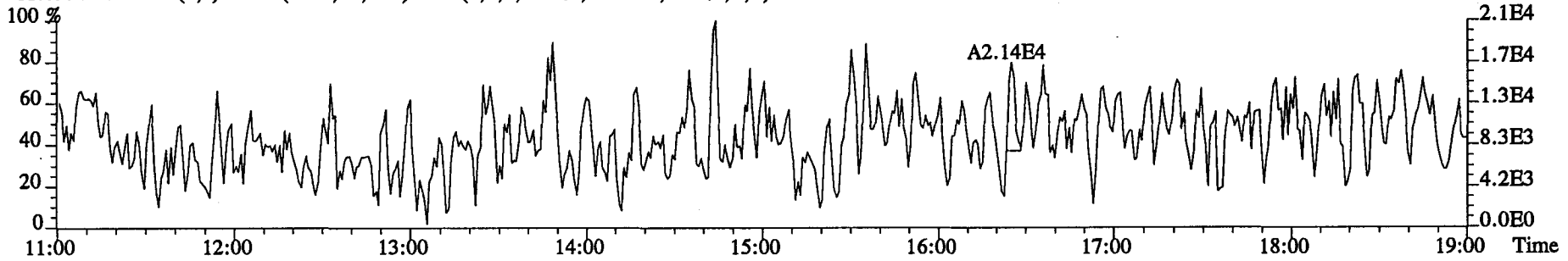
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,73484.0,1.00%,F,T)



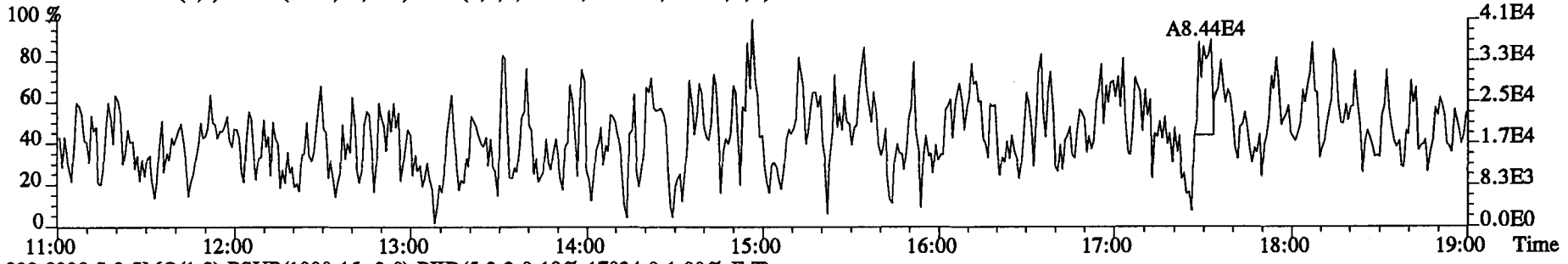
File:18AU105D2 #1-1242 Acq:18-AUG-2010 16:03:35 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB0818 :Solvent Blank C-14 Exp:DB225RES
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7728.0,1.00%,F,T)



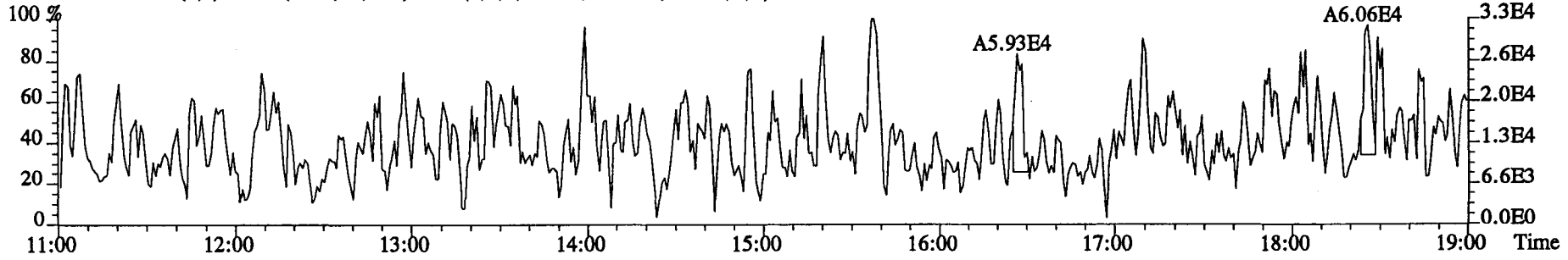
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12320.0,1.00%,F,T)



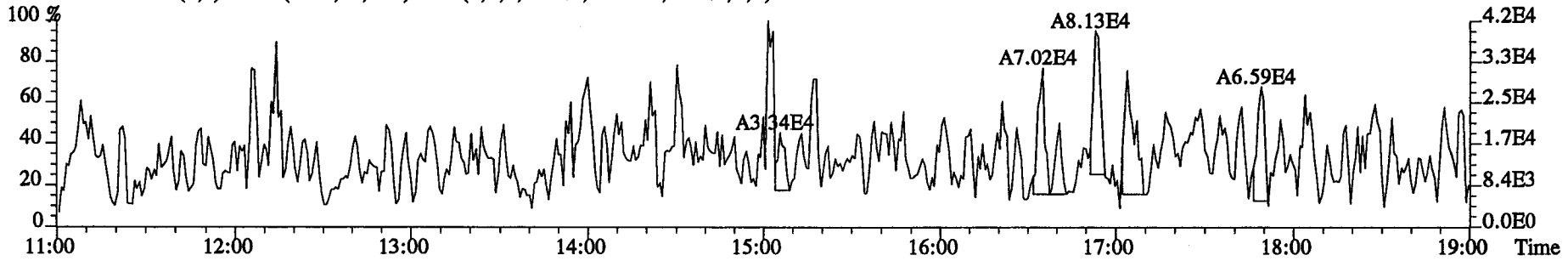
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25264.0,1.00%,F,T)



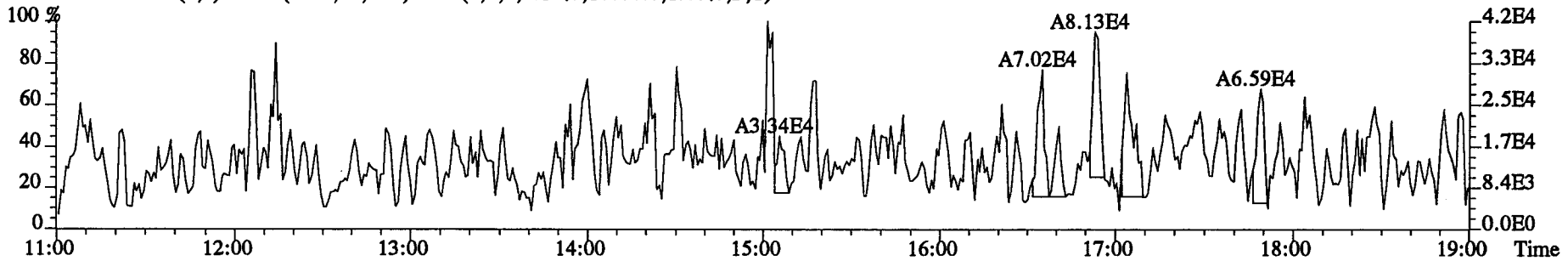
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17924.0,1.00%,F,T)



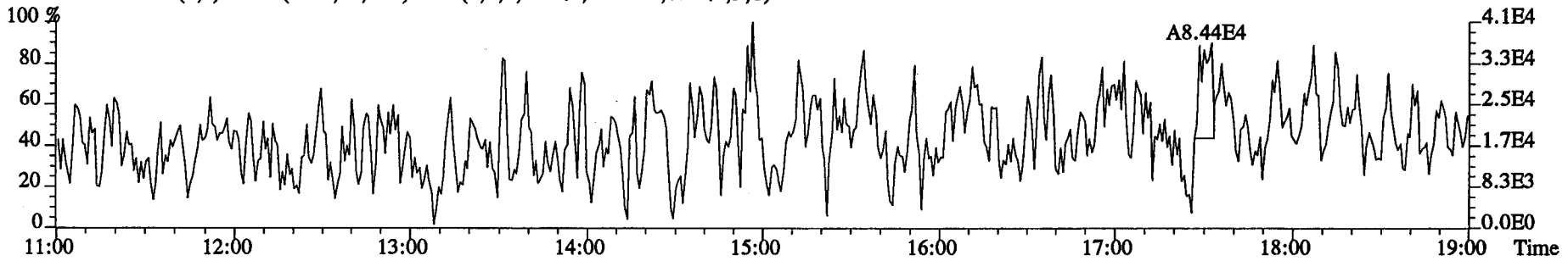
File:18AU105D2 #1-1242 Acq:18-AUG-2010 16:03:35 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB0818 :Solvent Blank C-14 Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16876.0,1.00%,F,T)



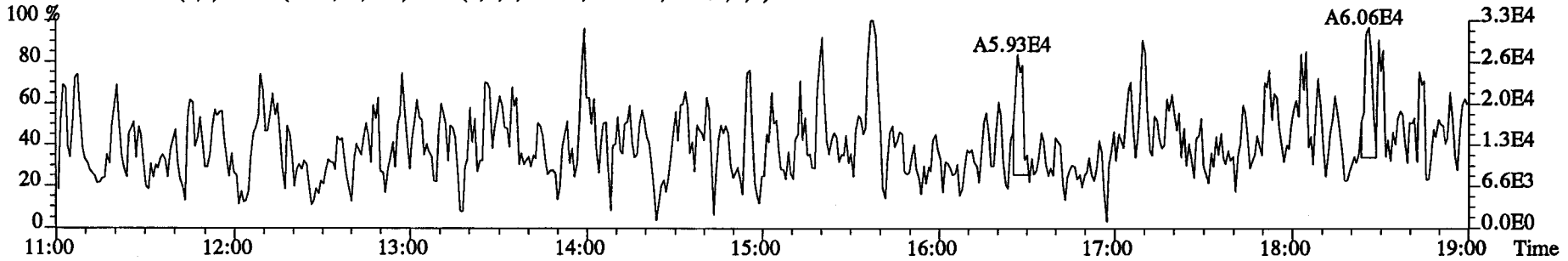
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16876.0,1.00%,F,T)



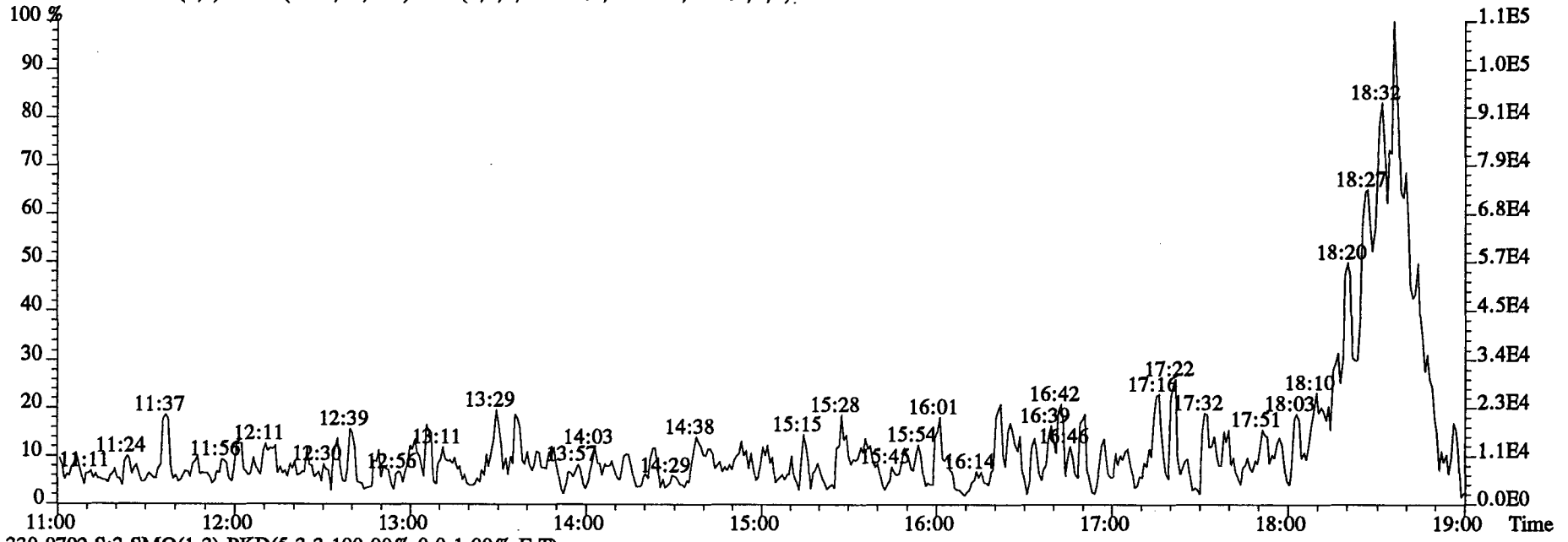
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25264.0,1.00%,F,T)



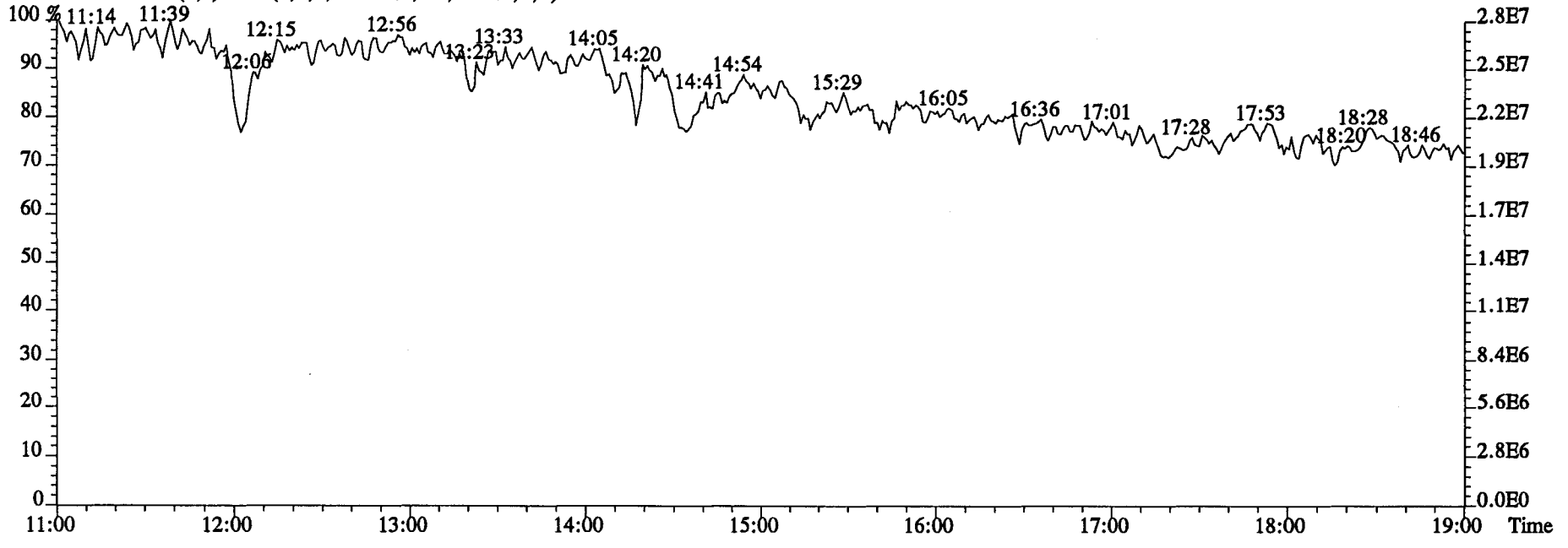
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17924.0,1.00%,F,T)



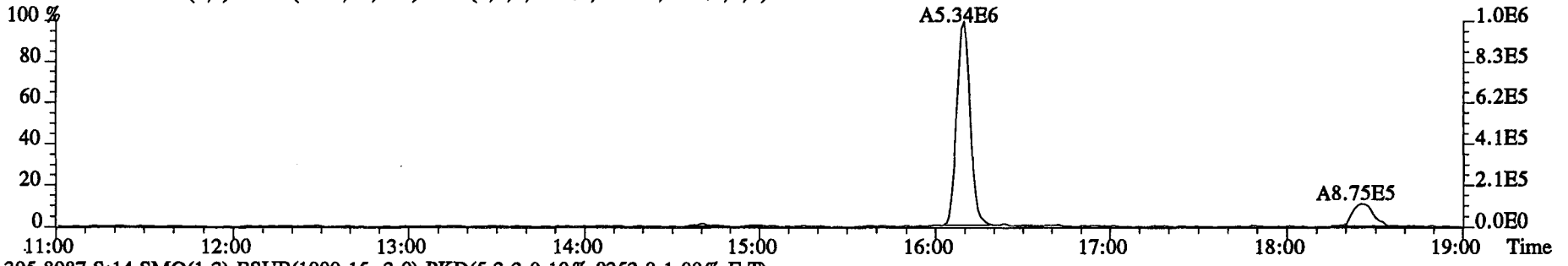
File:18AU105D2 #1-1242 Acq:18-AUG-2010 16:03:35 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB0818 :Solvent Blank C-14 Exp:DB225RES
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,11396.0,1.00%,F,T)



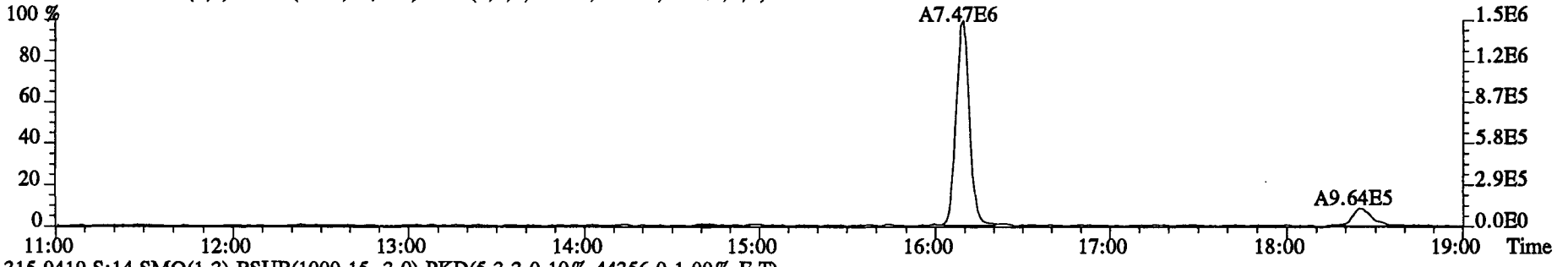
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



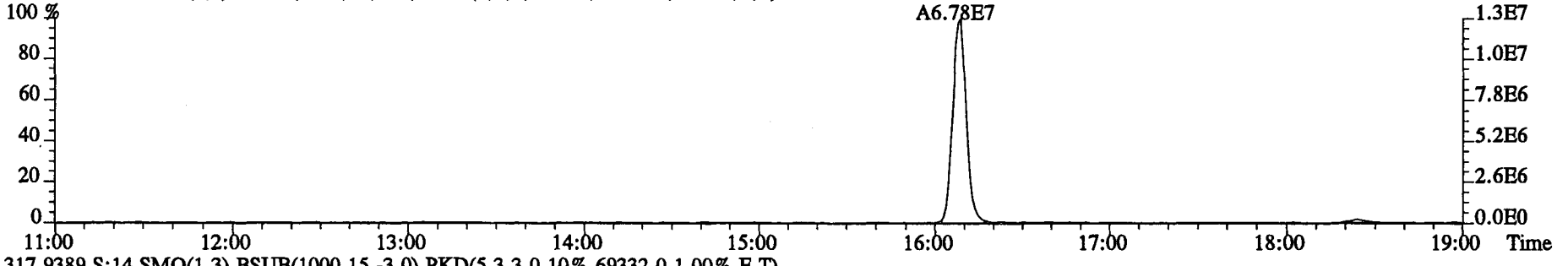
File:18AU105D2 #1-1242 Acq:18-AUG-2010 22:15:15 GC EI+ Voltage SIR 70SE
Sample#14 Text:ST0818B :CS3 10DXN336 Exp:DB225RES
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5996.0,1.00%,F,T)



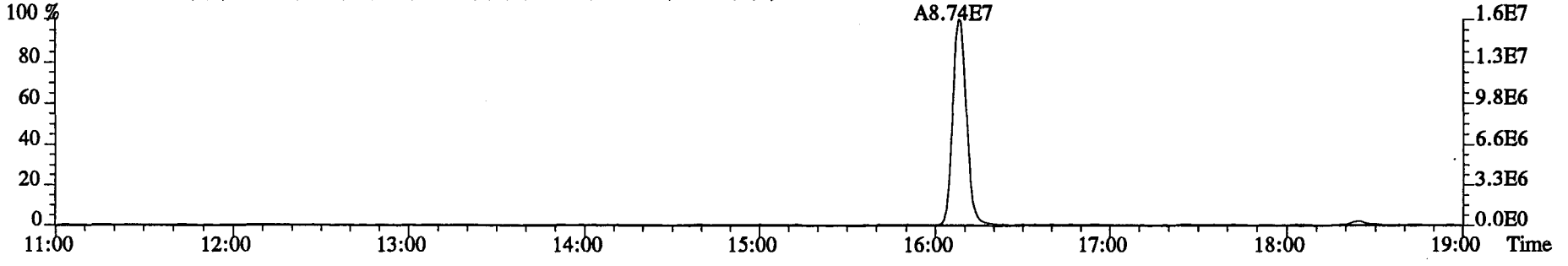
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9352.0,1.00%,F,T)



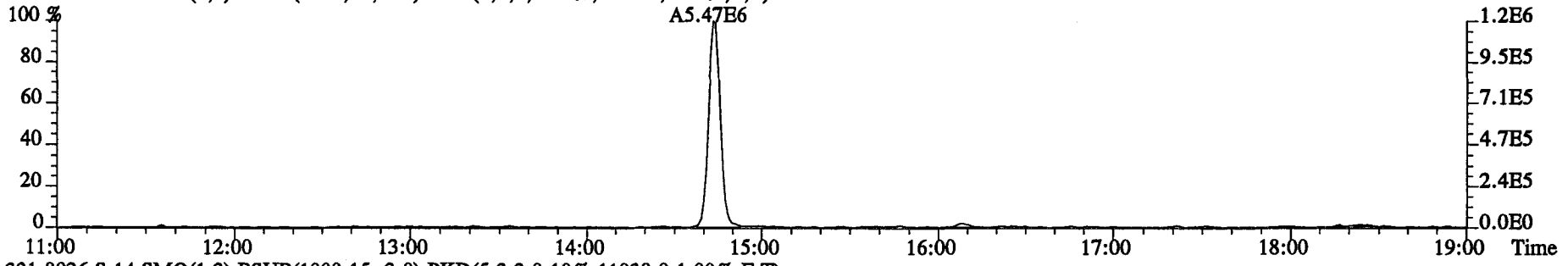
315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44356.0,1.00%,F,T)



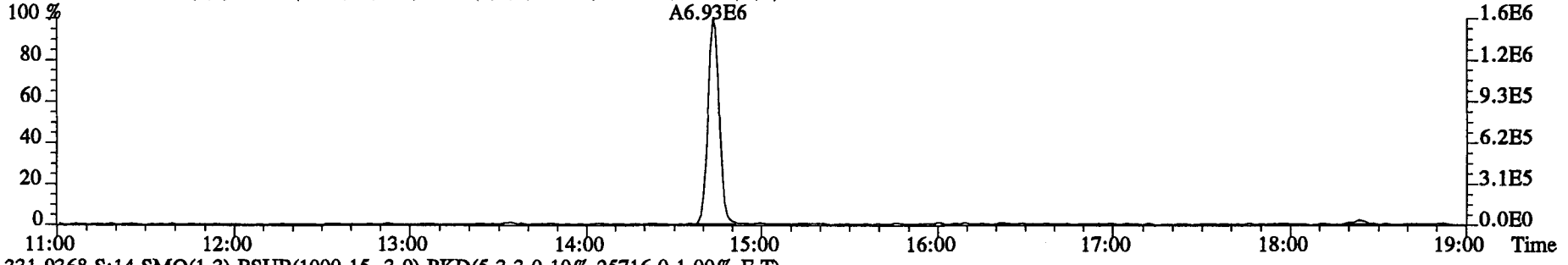
317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,69332.0,1.00%,F,T)



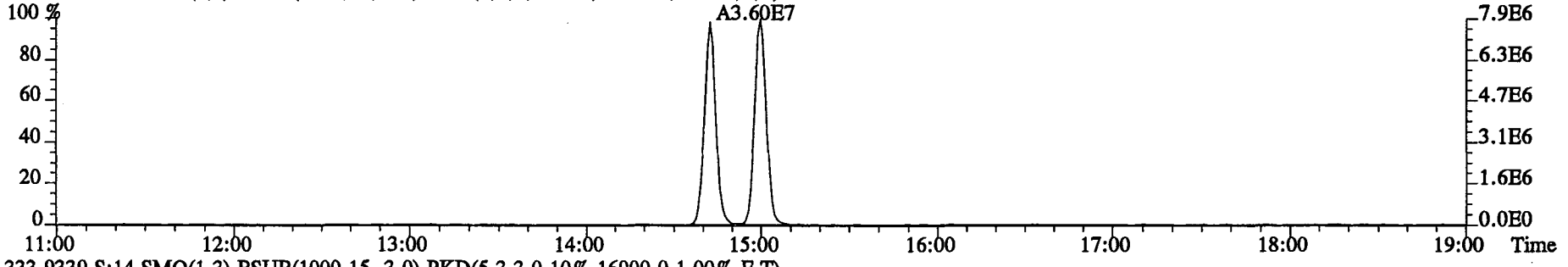
File:18AU105D2 #1-1242 Acq:18-AUG-2010 22:15:15 GC EI+ Voltage SIR 70SE
Sample#14 Text:ST0818B :CS3 10DXN336 Exp:DB225RES
319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6584.0,1.00%,F,T)



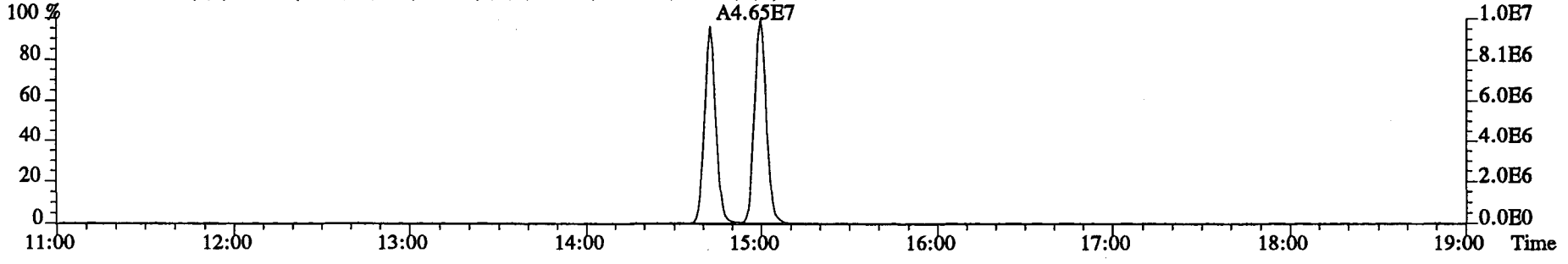
321.8936 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11028.0,1.00%,F,T)



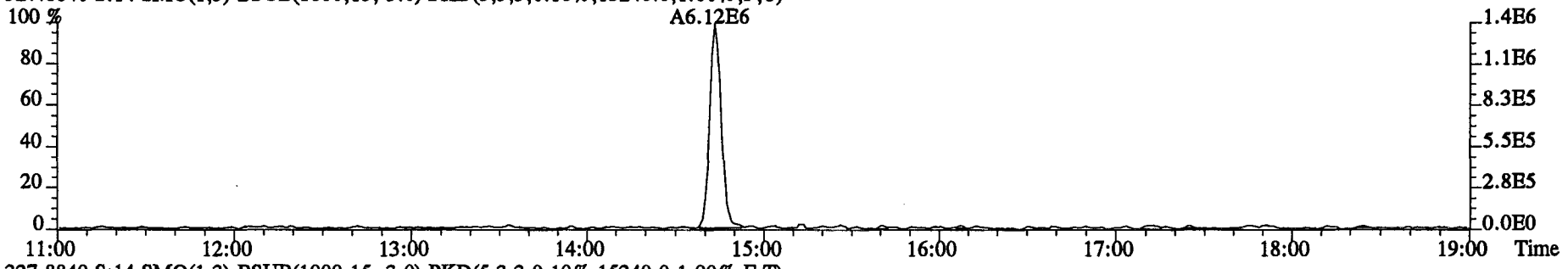
331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25716.0,1.00%,F,T)



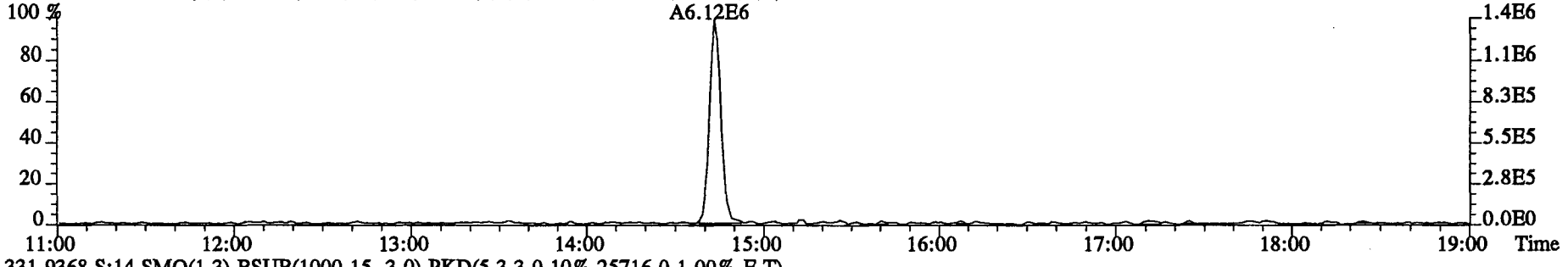
333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16900.0,1.00%,F,T)



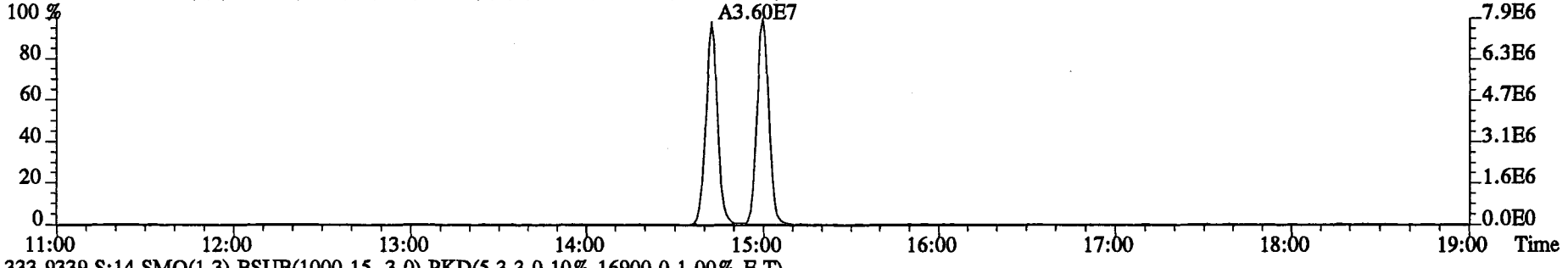
File:18AU105D2 #1-1242 Acq:18-AUG-2010 22:15:15 GC EI+ Voltage SIR 70SE
Sample#14 Text:ST0818B :CS3 10DXN336 Exp:DB225RES
327.8840 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15240.0,1.00%,F,T)



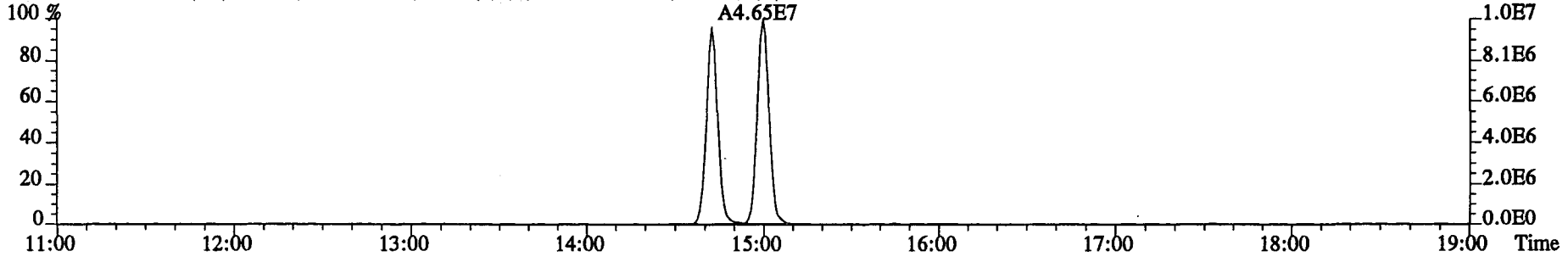
327.8840 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15240.0,1.00%,F,T)



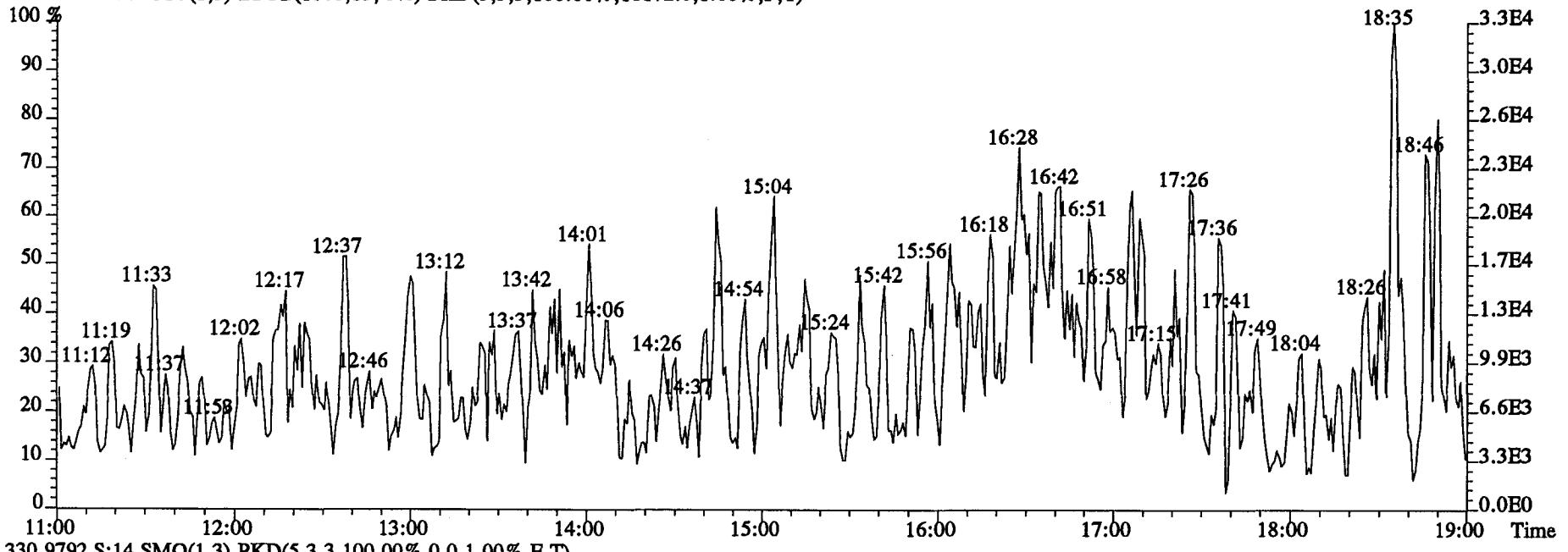
331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25716.0,1.00%,F,T)



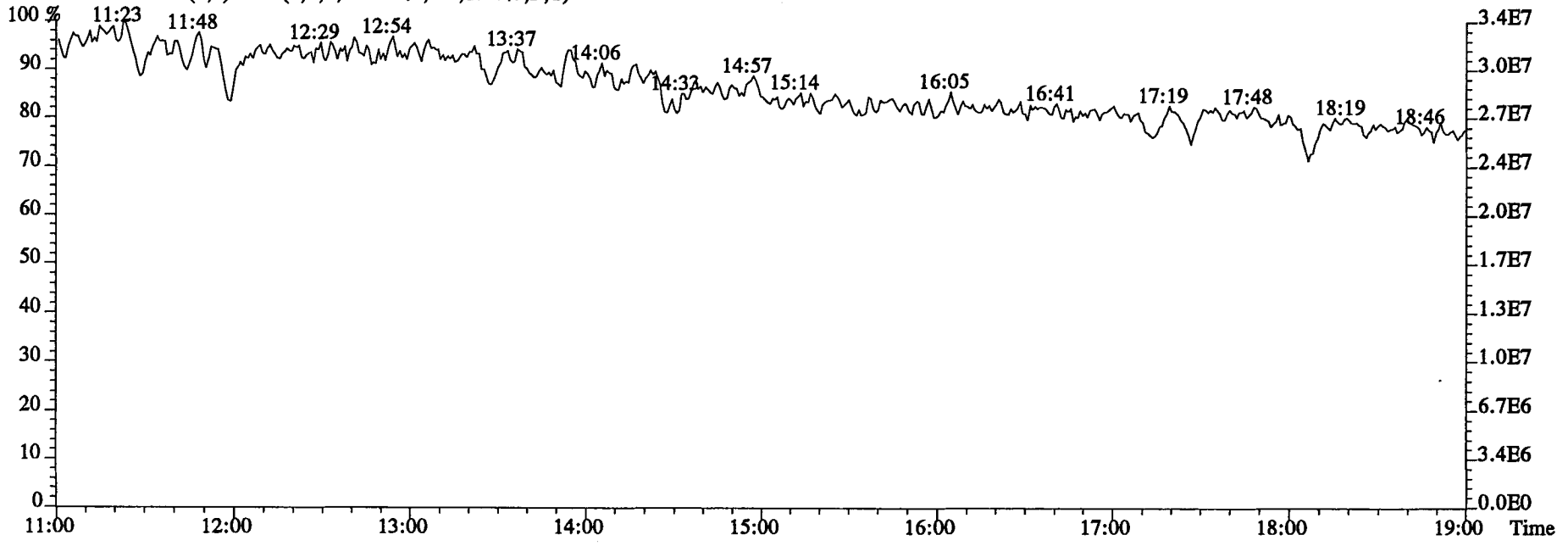
333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16900.0,1.00%,F,T)



File:18AU105D2 #1-1242 Acq:18-AUG-2010 22:15:15 GC EI+ Voltage SIR 70SE
Sample#14 Text:ST0818B :CS3 10DXN336 Exp:DB225RES
375.8364 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,10172.0,1.00%,F,T)



330.9792 S:14 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (8290,1613,T09,23,0023A,TETRAS) 072710105

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

Column ID DB5 | Instrument ID 105

STD ID's STD727(C,A,_,E,D) | STD Solution 10DXN(342,335,336,337,339)

GC Program DCDD | Multiplier Setting 270

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

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

Reviewed By JRB | Date Reviewed 7/28/10

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

COMMENTS:
CS3 Retention Times 13C-1,2,3,4-TCDD 17:47
13C-1,2,3,7,8,9-HxCDD 32:13

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

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

Name	Mean	S. D.	%RSD	27JL101D5 S5 RRF1	27JL101D5 S3 RRF2	27JL101D5 S2 RRF3	27JL101D5 S7 RRF4	27JL101D5 S6 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.562	0.047	3.01 %	1.50	1.53	1.58	1.57	1.63
2,3,7,8-TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99
Total TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99
13C-2,3,7,8-TCDD	0.935	0.034	3.61 %	0.95	0.94	0.96	0.88	0.95
2,3,7,8-TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10
Total TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10
37Cl-2,3,7,8-TCDD	1.216	0.130	10.7 %	1.21	1.04	1.14	1.32	1.36
13C-1,2,3,7,8-PeCDF	1.062	0.125	11.8 %	1.17	1.16	1.13	0.94	0.91
1,2,3,7,8-PeCDF	1.080	0.159	14.7 %	0.88	0.96	1.09	1.24	1.23
2,3,4,7,8-PeCDF	0.980	0.172	17.6 %	0.77	0.85	0.98	1.14	1.16
Total F2 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19
Total F1 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19
13C-1,2,3,7,8-PeCDD	0.646	0.051	7.89 %	0.70	0.69	0.66	0.59	0.59
1,2,3,7,8-PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06
Total PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	0.986	0.051	5.22 %	1.02	1.00	1.04	0.97	0.91
1,2,3,4,7,8-HxCDF	1.153	0.147	12.7 %	0.95	1.06	1.20	1.26	1.30
1,2,3,6,7,8-HxCDF	1.243	0.165	13.3 %	0.99	1.17	1.31	1.36	1.39
2,3,4,6,7,8-HxCDF	1.218	0.140	11.5 %	1.02	1.13	1.29	1.29	1.36
1,2,3,7,8,9-HxCDF	1.185	0.124	10.5 %	1.03	1.09	1.25	1.24	1.33
Total HxCDF	1.200	0.143	11.9 %	1.00	1.11	1.26	1.29	1.34
13C-1,2,3,6,7,8-HxCDD	0.768	0.045	5.92 %	0.76	0.80	0.82	0.70	0.76
1,2,3,4,7,8-HxCDD	1.029	0.150	14.6 %	0.86	0.89	1.06	1.23	1.10

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

Run #1 Filename 27JL101D5 S: 5 I: 1
Acquired: 27-JUL-10 10:54:32 Processed: 28-JUL-10 10:46:44
Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5
Comments:
Sample text: ST0727C :CS1 10DXN342

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

OCDD	6022620	0.90	y	37:36	0.88	5.00	n

Run #2 Filename 27JL101D5 S: 3 I: 1
Acquired: 27-JUL-10 09:25:53 Processed: 28-JUL-10 10:46:45
Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5
Comments:
Sample text: ST0727A :CS2 10DXN335

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

Run #3 Filename 27JL101D5 S: 2 I: 1
Acquired: 27-JUL-10 08:41:56 Processed: 28-JUL-10 10:46:45
Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5
Comments:
Sample text: ST0727 :CS3 10DXN336

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

Run #4 Filename 27JL101D5 S: 7 I: 1
Acquired: 27-JUL-10 12:22:47 Processed: 28-JUL-10 10:46:46
Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5
Comments:
Sample text: ST0727E :CS4 10DXN337

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

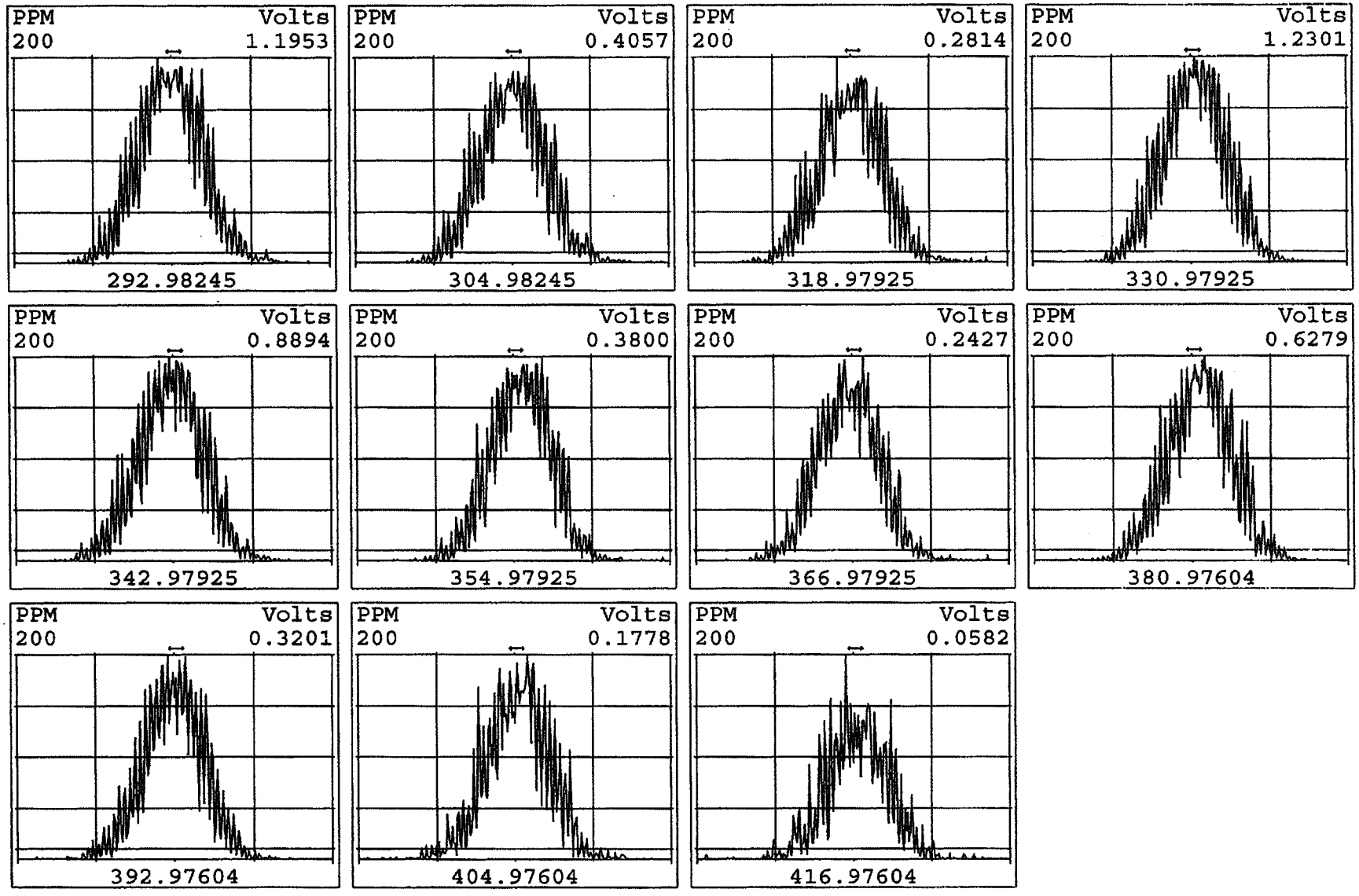
Run #5 Filename 27JL101D5 S: 6 I: 1
Acquired: 27-JUL-10 11:38:49 Processed: 28-JUL-10 10:46:47
Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5
Comments:
Sample text: ST0727D :CS5 10DXN339

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

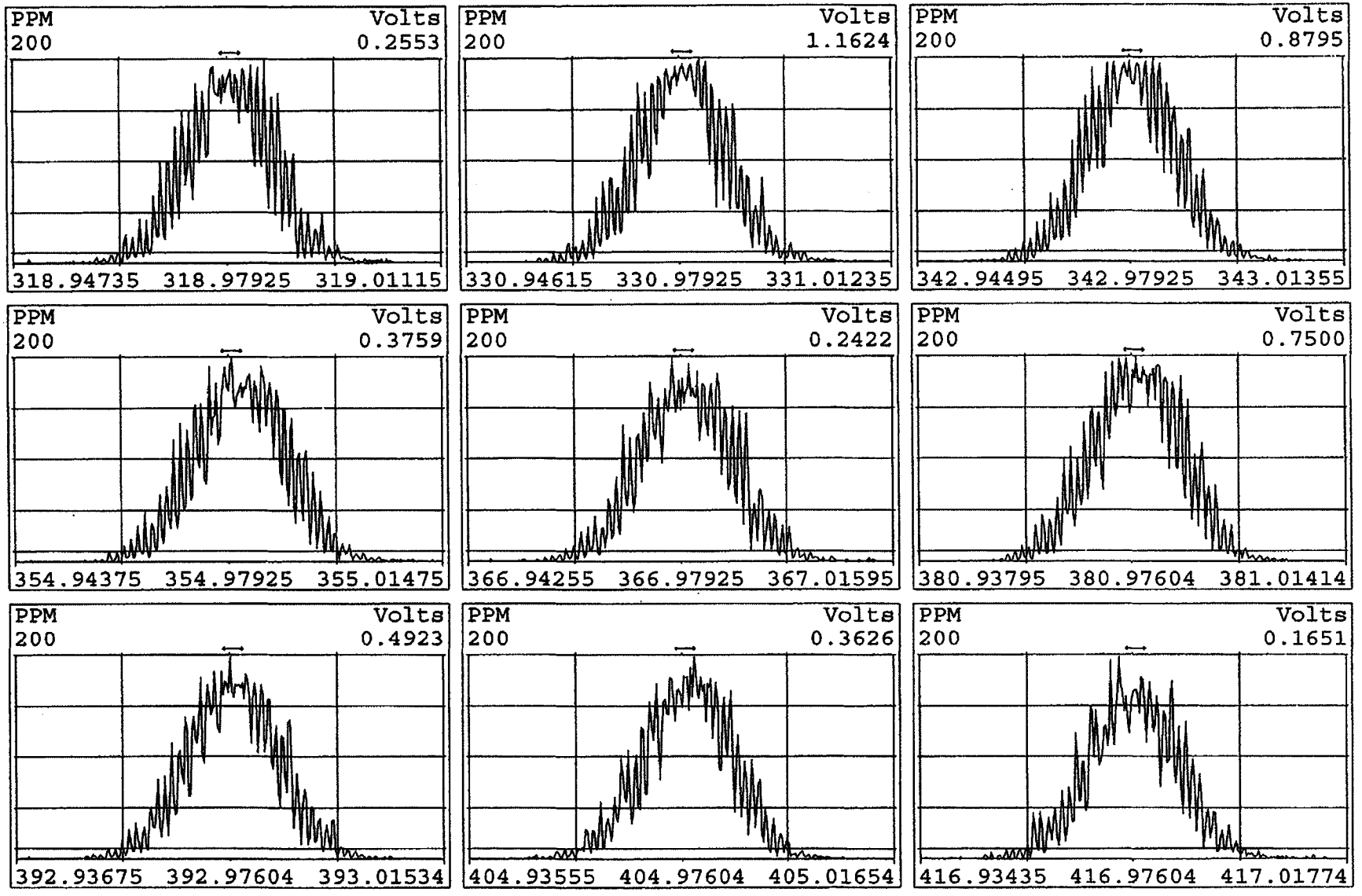
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
27JL101D5	1	CP0727	DB-5 CPSM 3732-07				1.00000	
27JL101D5	2	ST0727	CS3 10DXN336				1.00000	
27JL101D5	3	ST0727A	CS2 10DXN335				1.00000	
27JL101D5	4	ST0727B	CS1 10DXN342 - native TCDF out of ratio				1.00000	
27JL101D5	5	ST0727C	CS1 10DXN342				1.00000	
27JL101D5	6	ST0727D	CS5 10DXN339				1.00000	
27JL101D5	7	ST0727E	CS4 10DXN337				1.00000	
27JL101D5	8	ST0727F	2nd Source 10DXN340				1.00000	
27JL101D5	9	ST0727G	CS3 10DXN336				1.00000	
27JL101D5	10	CP0727A	DB-5 CPSM 3732-07				1.00000	
27JL101D5	11	L4LM1-1-AAB	G0G230000-245B	20	8290/SOLID	70	10.00000	g
27JL101D5	12	L4LM1-1-ACC	G0G230000-245C	20	8290/SOLID		10.00000	g
27JL101D5	13	L4K1D-1-AA	G0G230451-1	20	8290/SOLID		10.70000	g
27JL101D5	14	L4K1D-1-AFS	G0G230451-1S	20	8290/SOLID		10.04000	g
27JL101D5	15	L4K1D-1-AGD	G0G230451-1D	20	8290/SOLID		10.47000	g
27JL101D5	16	L4K1G-1-AA	G0G230451-2	20	8290/SOLID		10.60000	g
27JL101D5	17	ST0727H	CS3 10DXN336				1.00000	
27JL101D5	18						1.00000	
27JL101D5	19						1.00000	
27JL101D5	20						1.00000	
27JL101D5	21						1.00000	
27JL101D5	22		MG, AM 07/27/10				1.00000	

log file reviewed
7-27-10 am

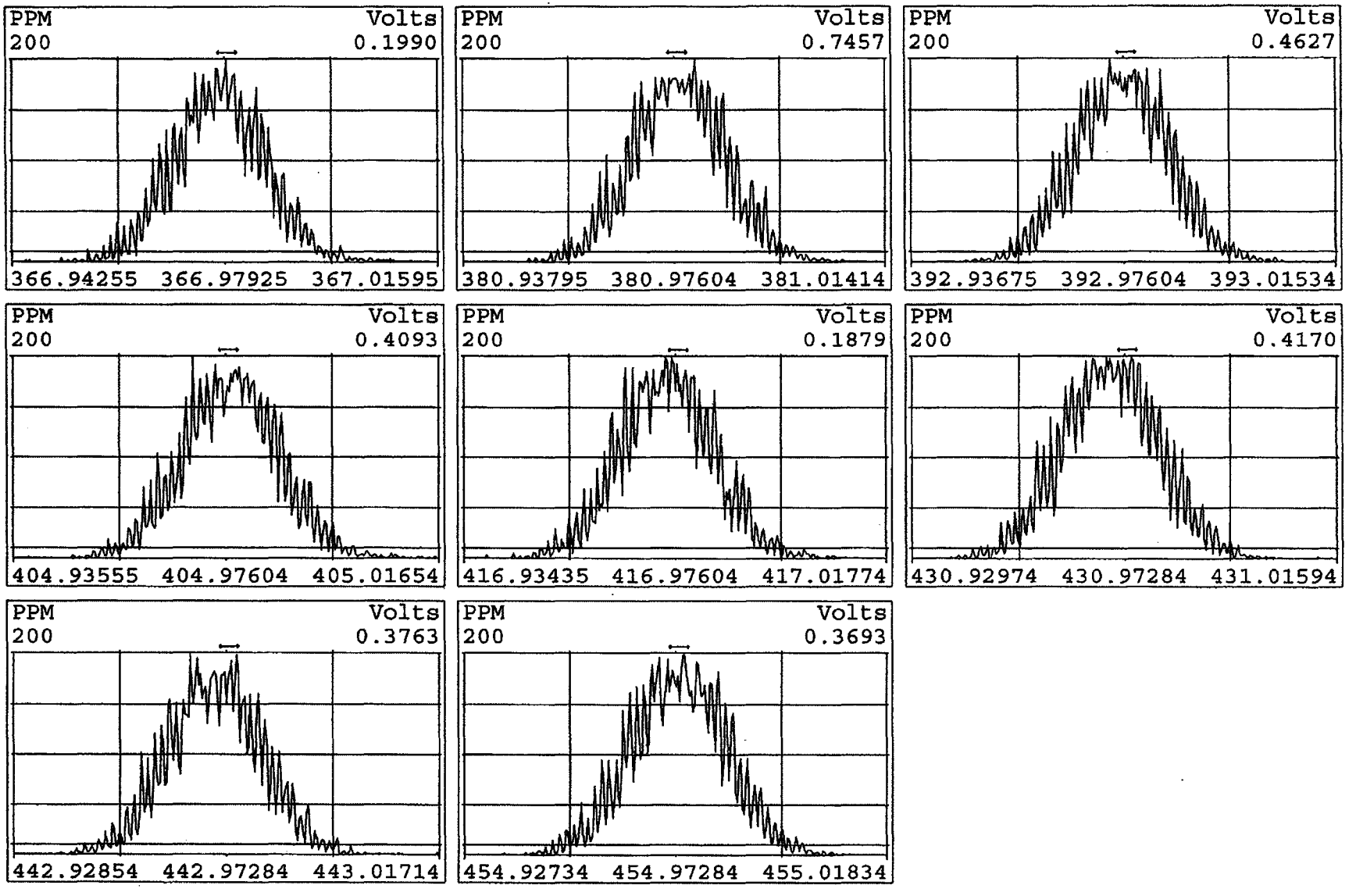
Peak Locate Examination:27-JUL-2010:07:49 File:27JL101D5
Experiment:DIOXINRES Function:1 Reference:PFK



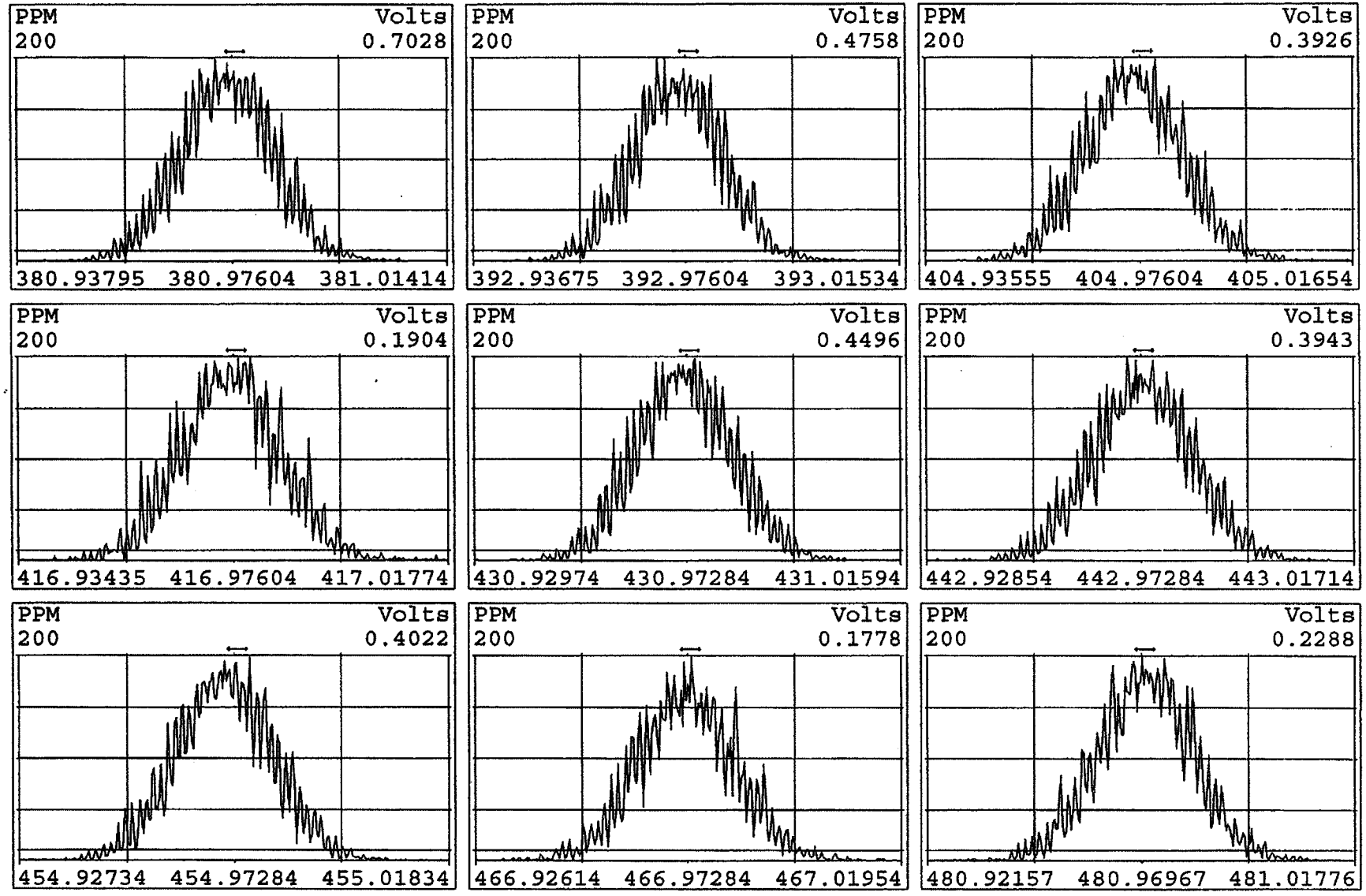
Peak Locate Examination:27-JUL-2010:07:50 File:27JL101D5
Experiment:DIOXINRES Function:2 Reference:PFK



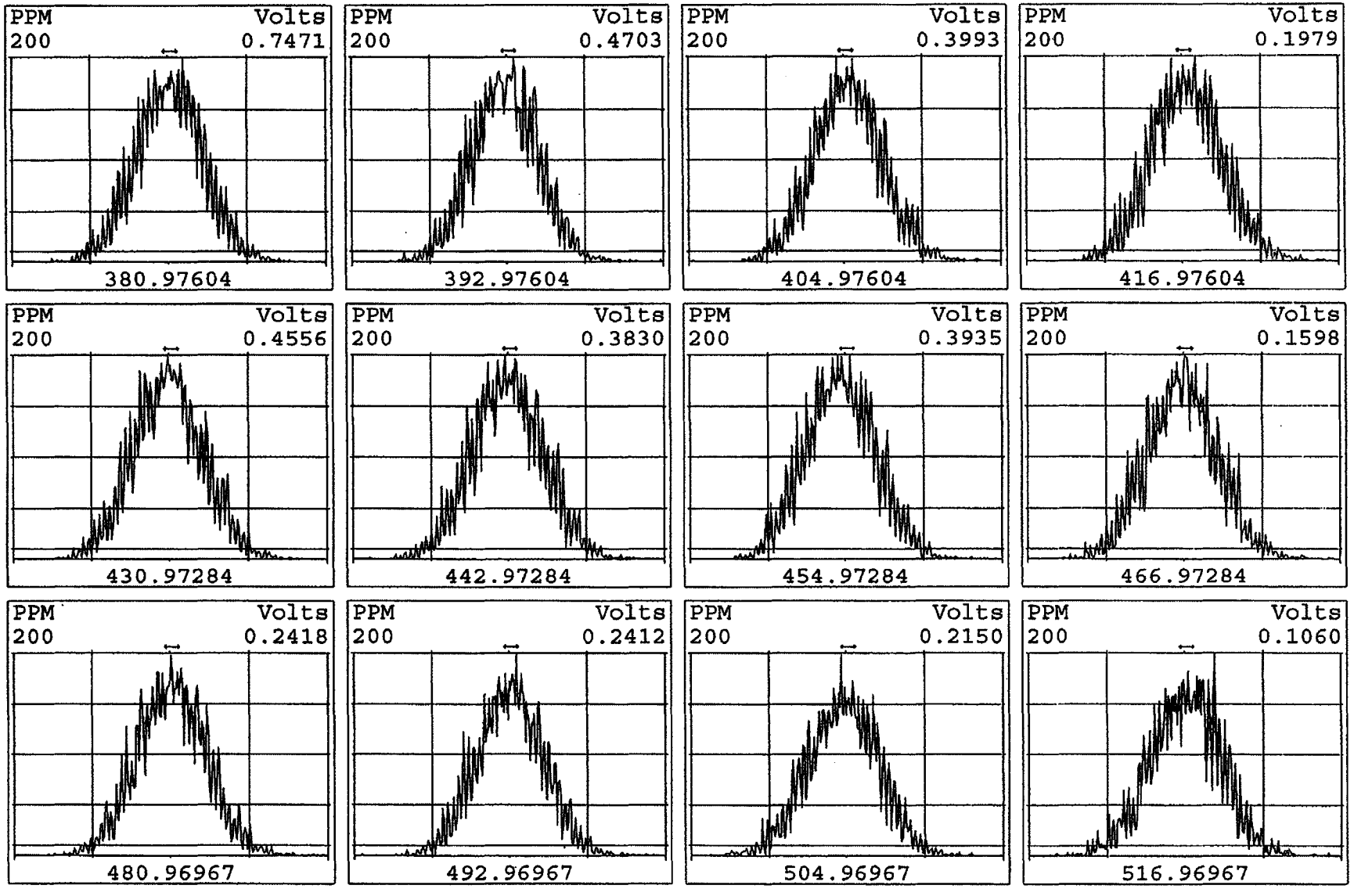
Peak Locate Examination:27-JUL-2010:07:51 File:27JL101D5
Experiment:DIOXINRES Function:3 Reference:PFK



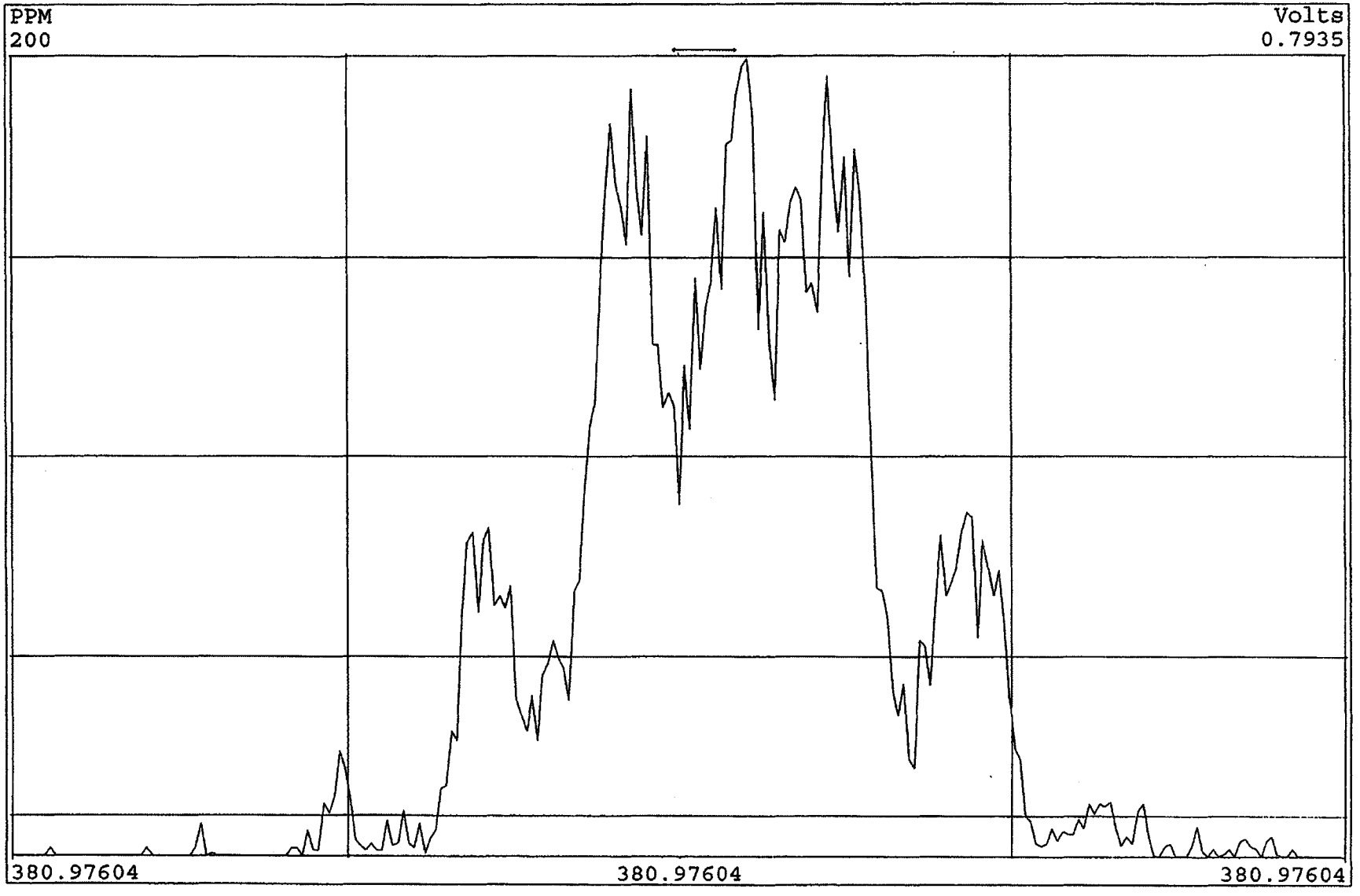
Peak Locate Examination:27-JUL-2010:07:56 File:27JL101D5
Experiment:DIOXINRES Function:4 Reference:PFK



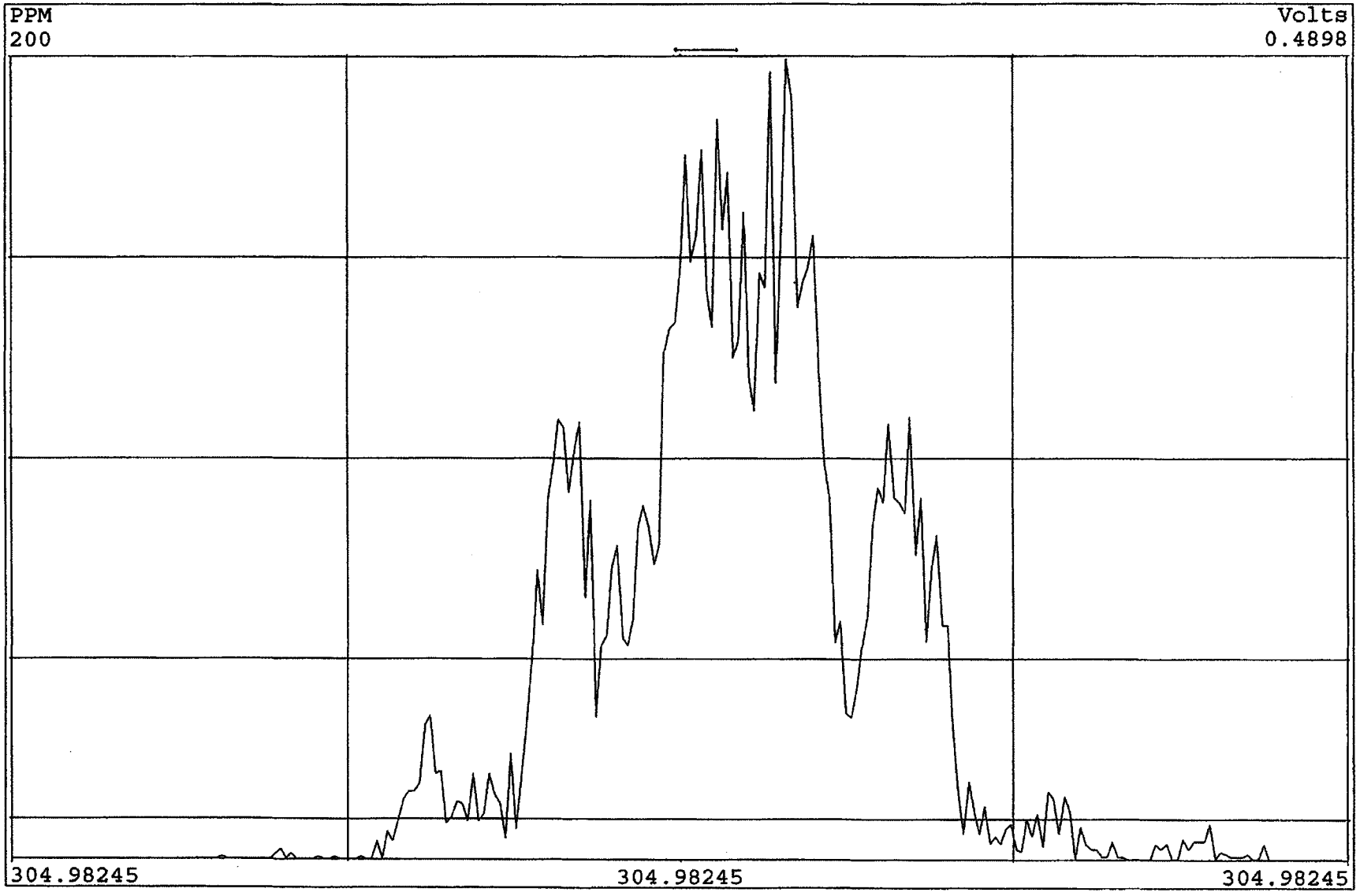
Peak Locate Examination:27-JUL-2010:07:56 File:27JL101D5
Experiment:DIOXINRES Function:5 Reference:PFK



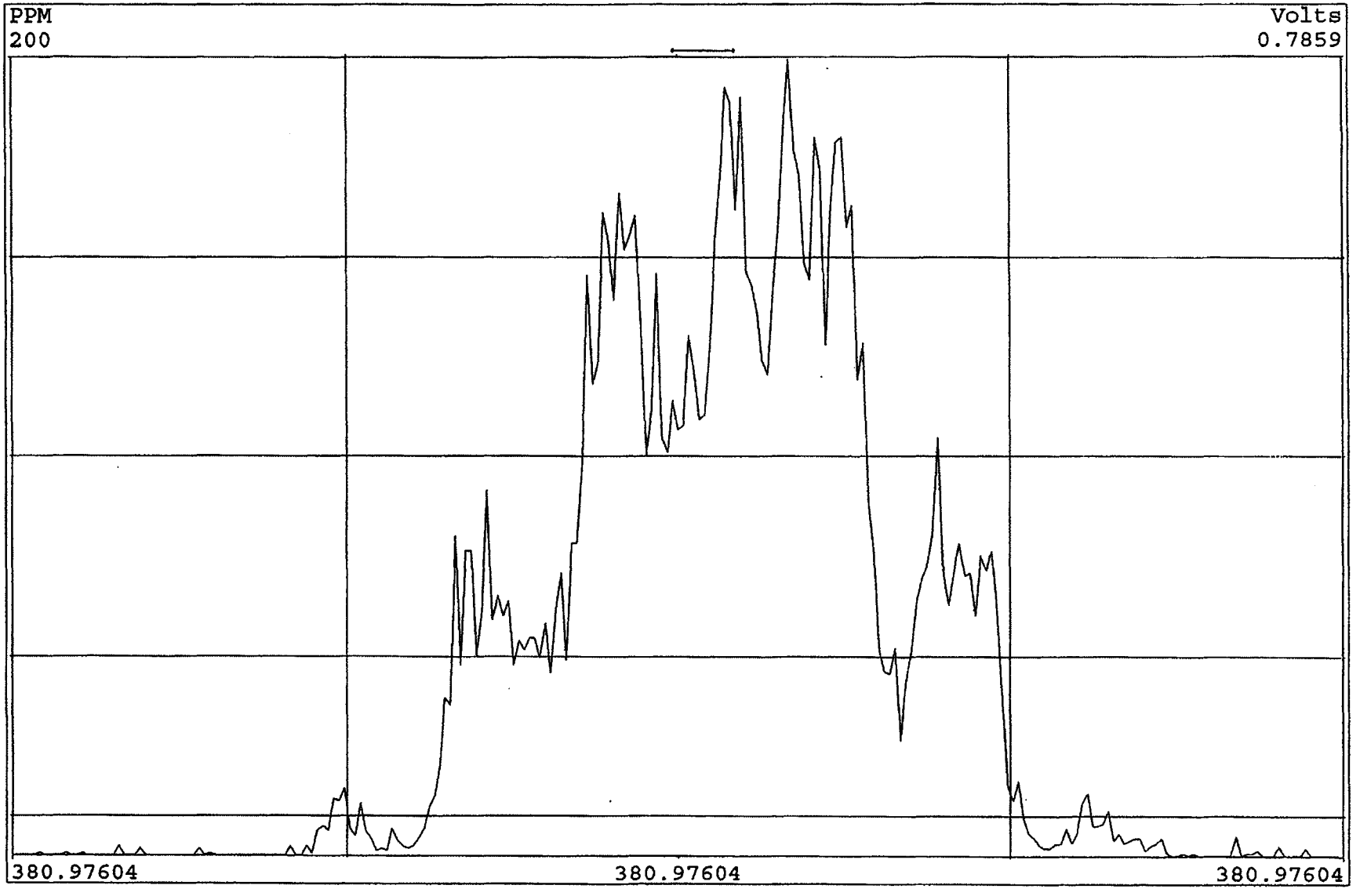
SIRLM Examination:27-JUL-2010:13:47 File:27JL101D5
Experiment:DIOXINRES Function:6



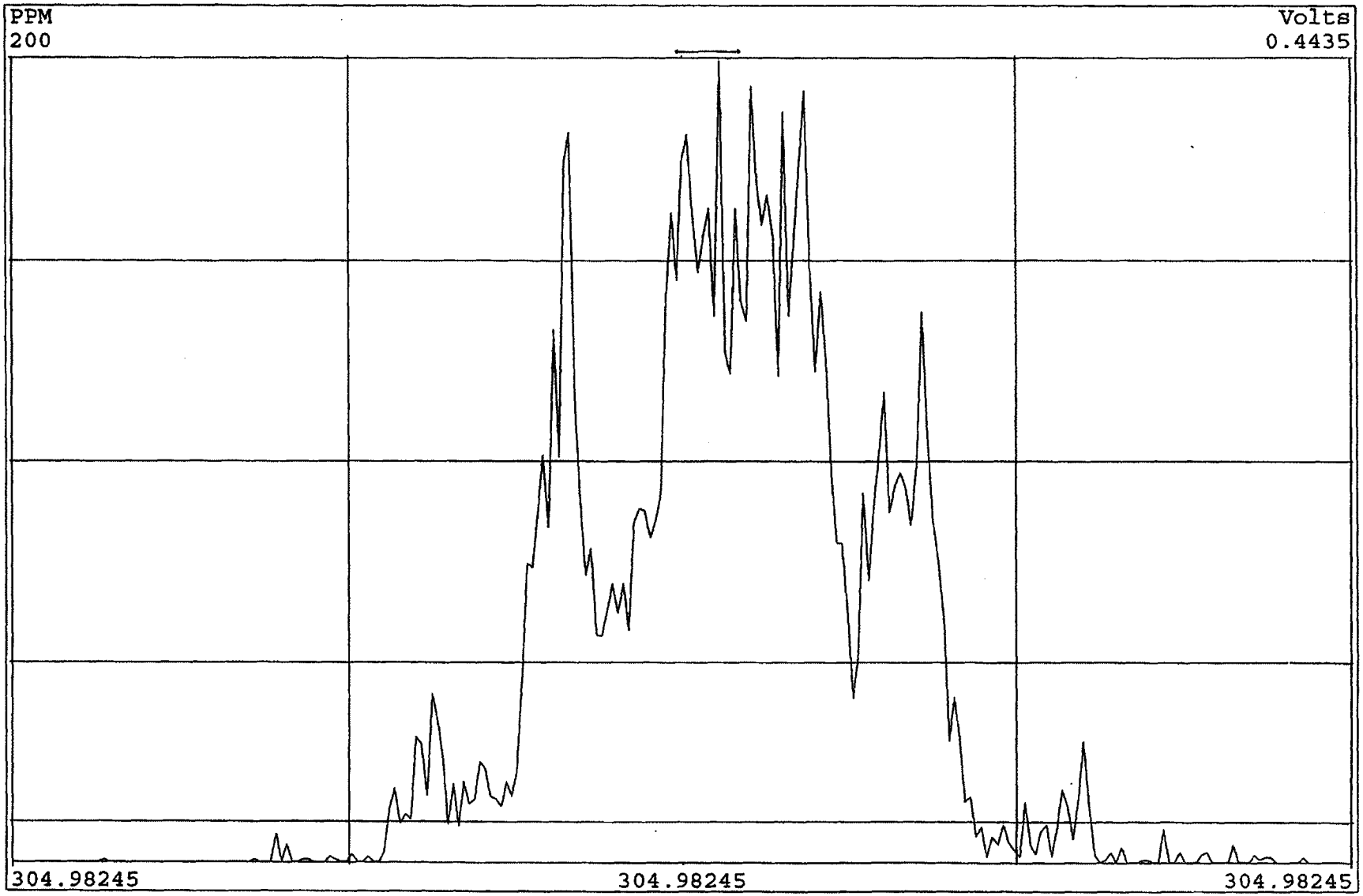
SIRLM Examination:27-JUL-2010:13:48 File:27JL101D5
Experiment:DIOXINRES Function:7



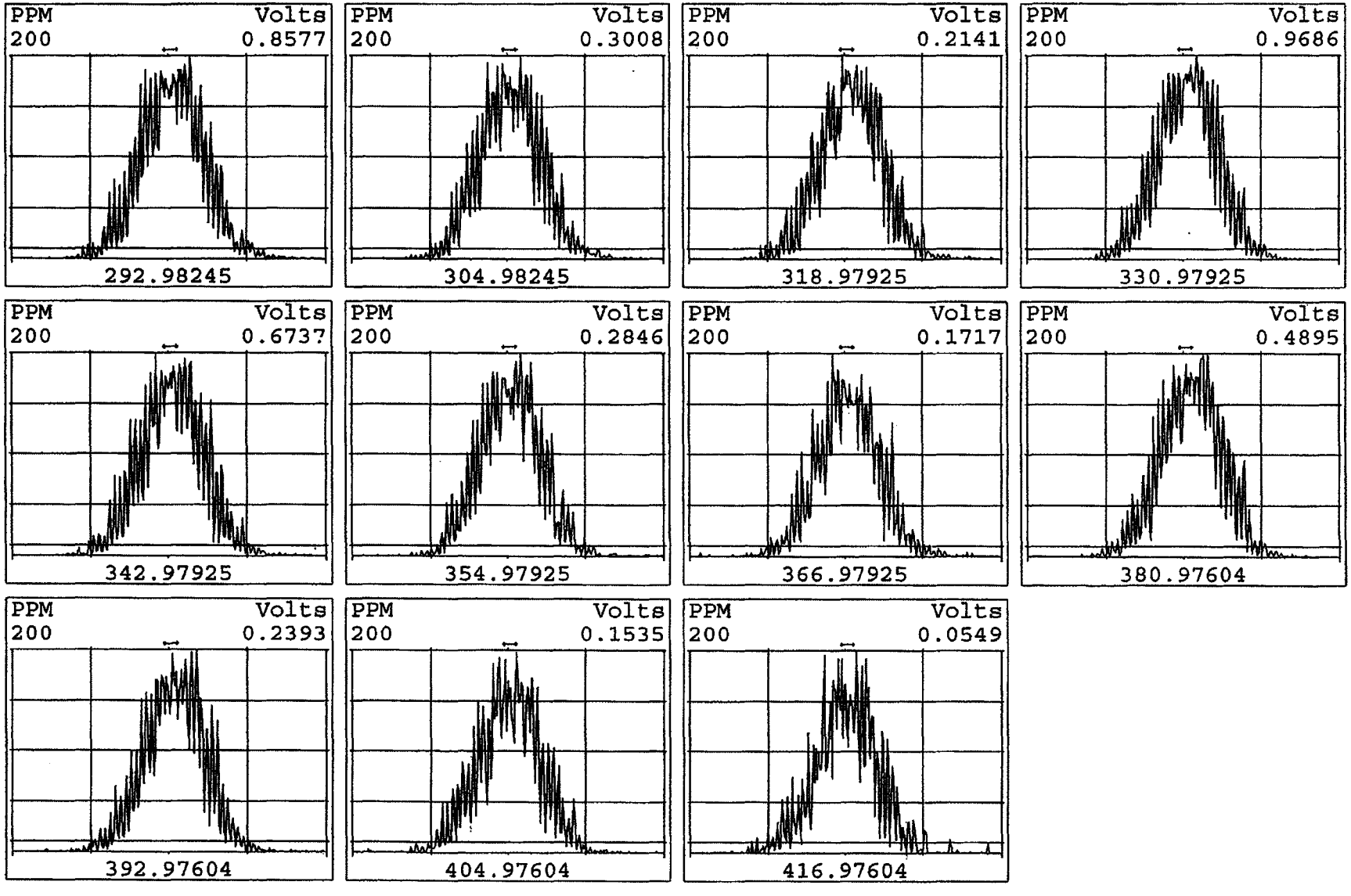
SIRLM Examination:27-JUL-2010:14:31 File:27JL101D5
Experiment:DIOXINRES Function:6



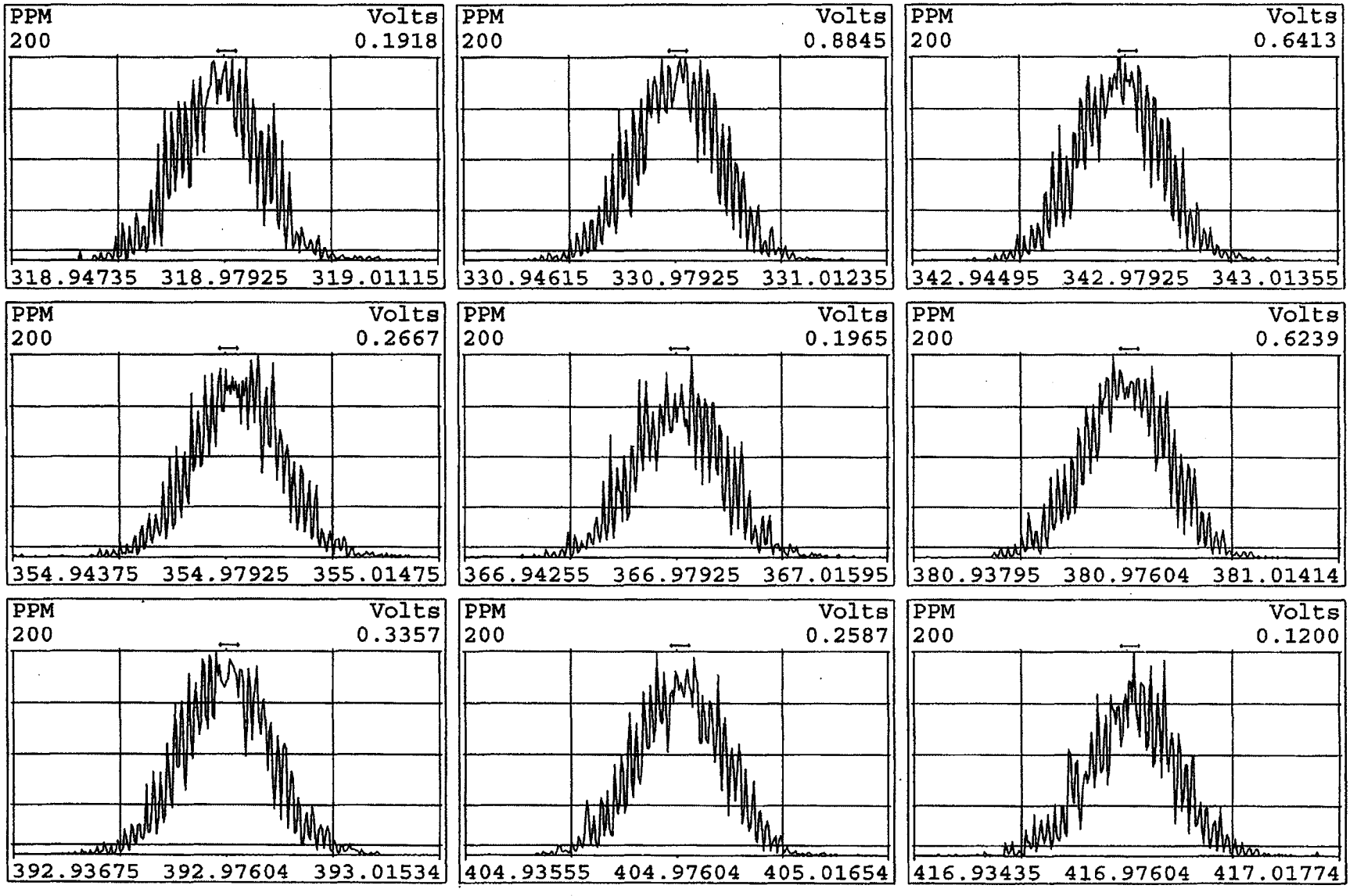
SIRLM Examination:27-JUL-2010:14:32 File:27JL101D5
Experiment:DIOXINRES Function:7



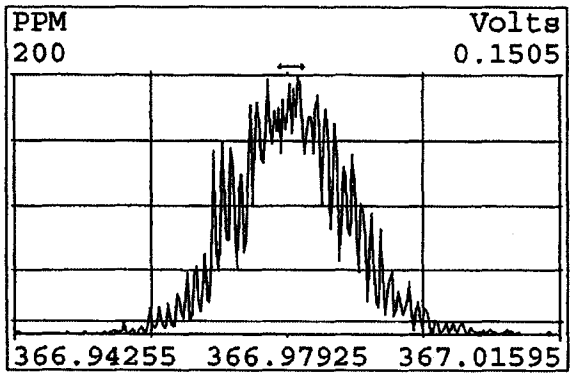
Peak Locate Examination:27-JUL-2010:20:35 File:RESCHK27JL101D5
Experiment:DIOXINRES Function:1 Reference:PFK

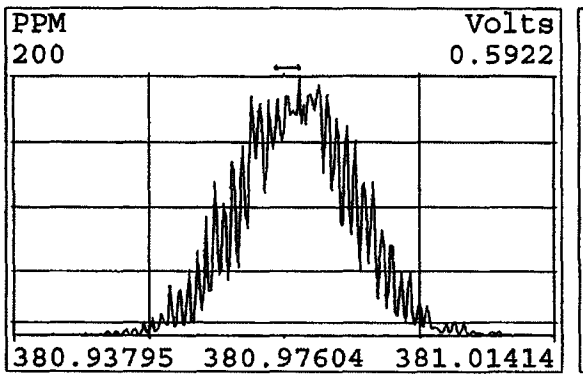


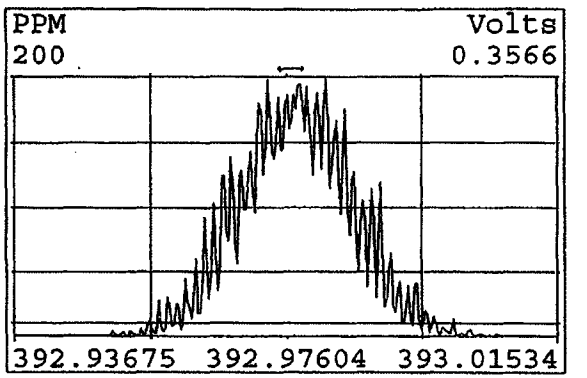
Peak Locate Examination:27-JUL-2010:20:36 File:RESCHK27JL101D5
Experiment:DIOXINRES Function:2 Reference:PFK

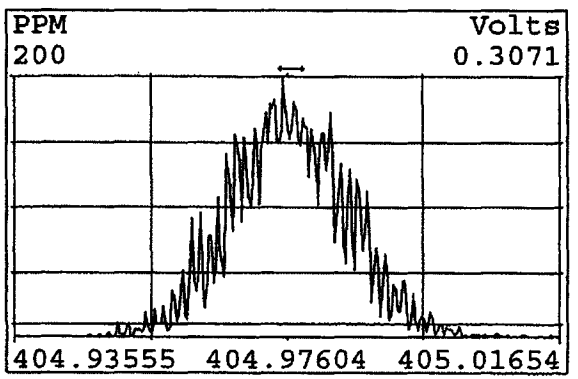


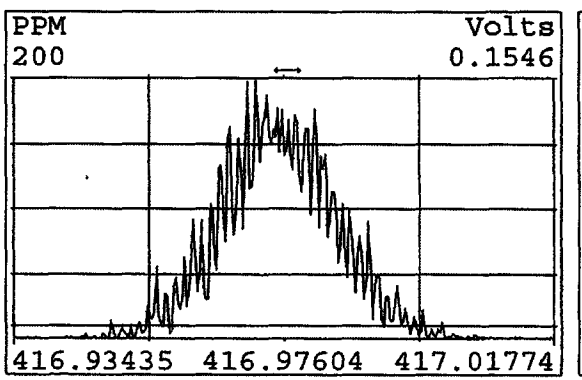
Peak Locate Examination:27-JUL-2010:20:41 File:RESCHK27JL101D5
Experiment:DIOXINRES Function:3 Reference:PFK

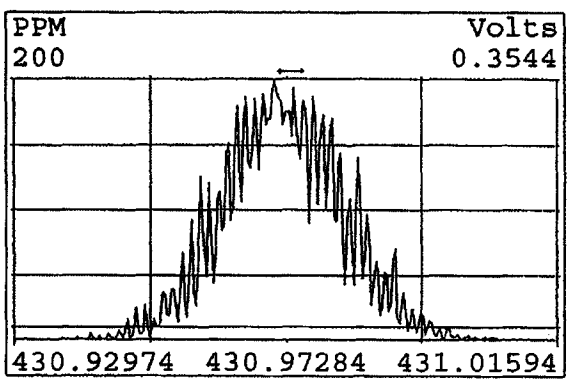


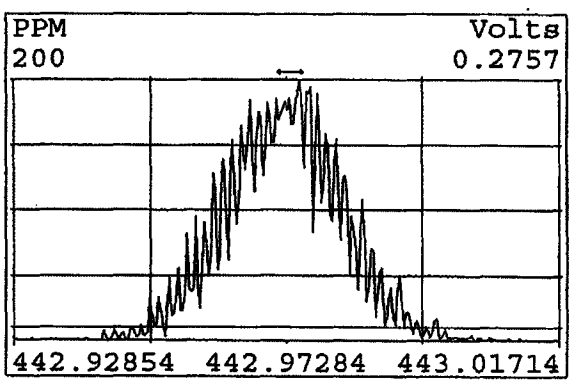


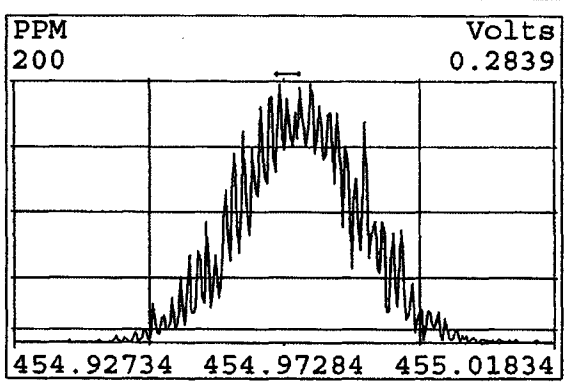




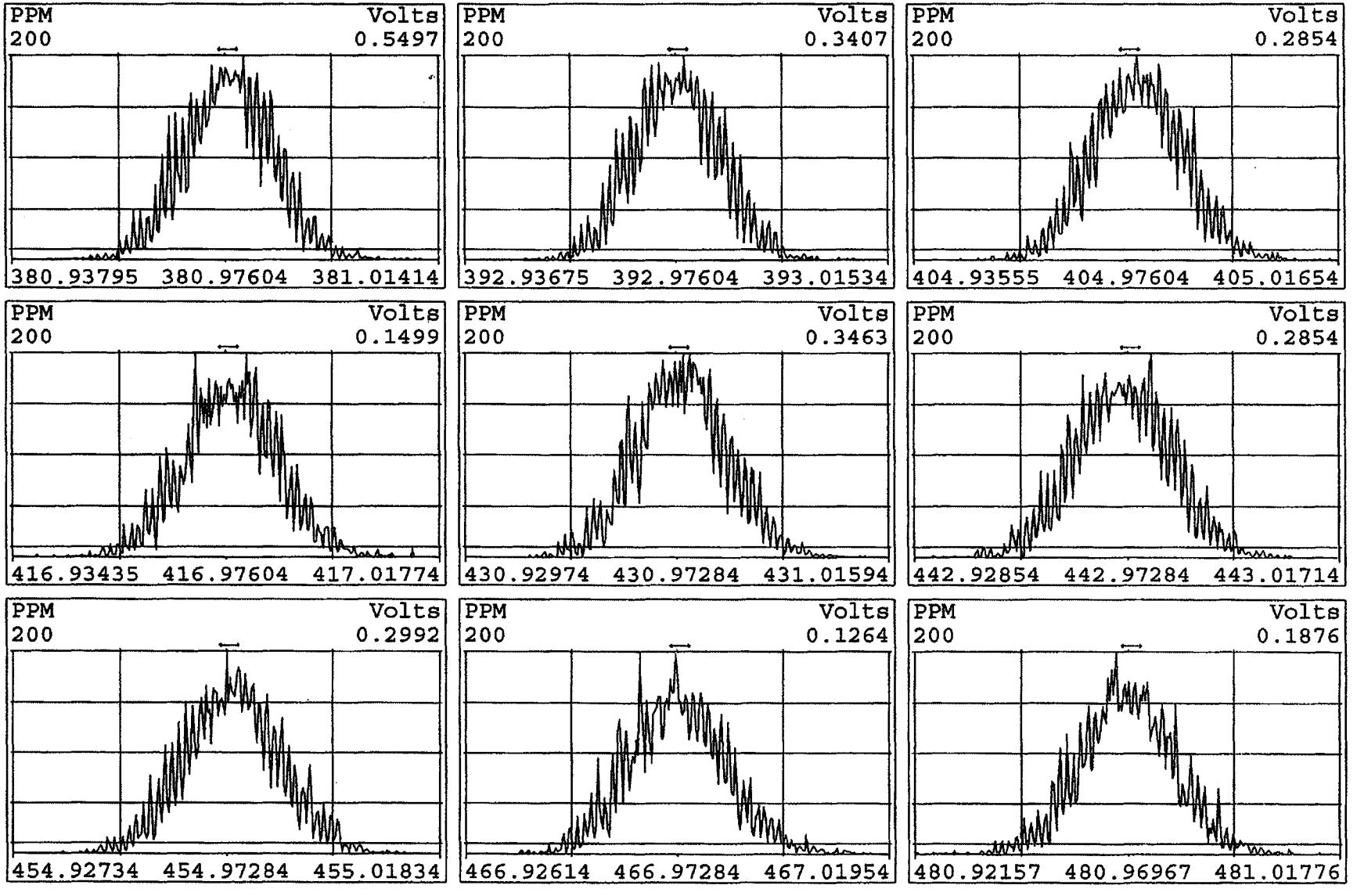




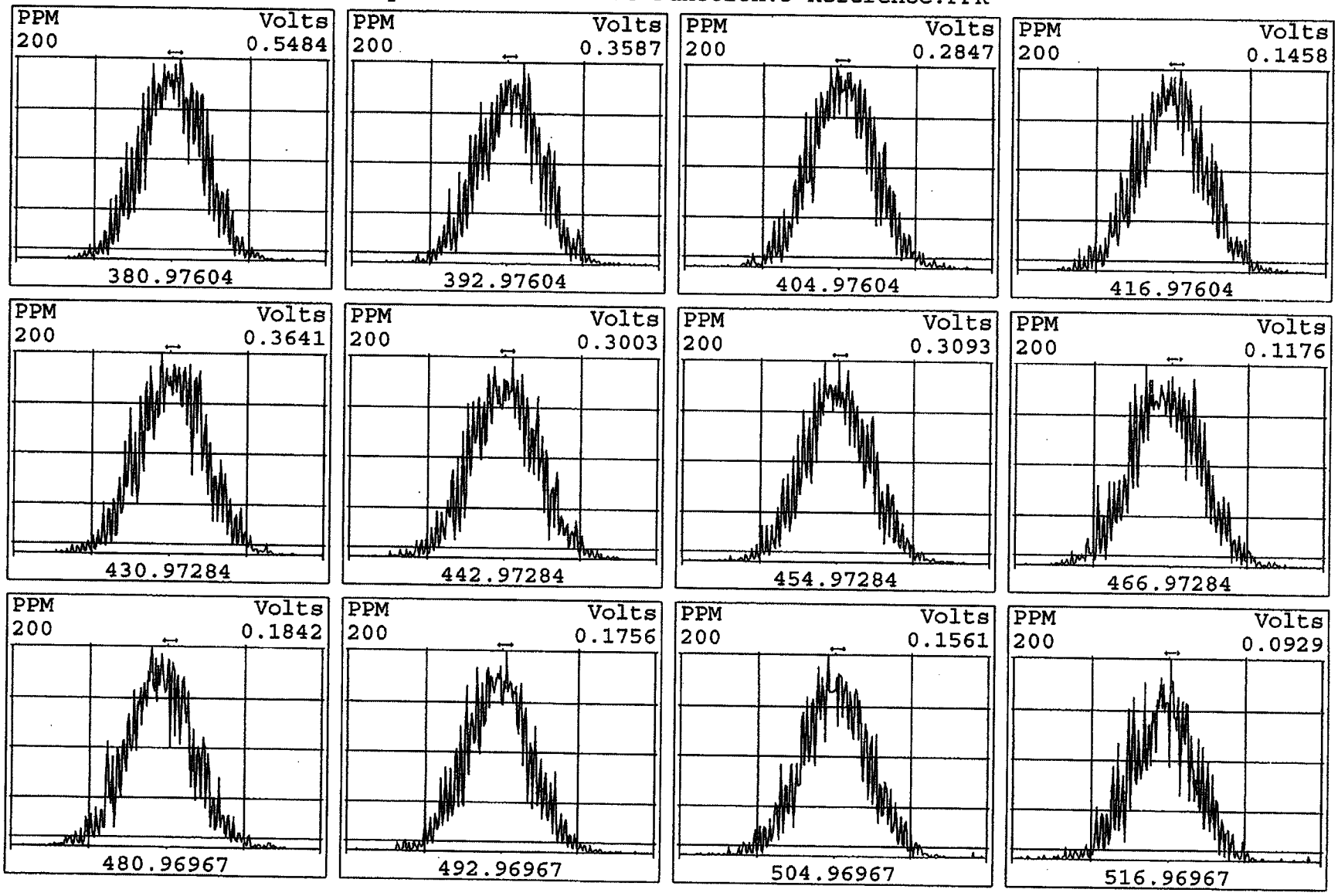




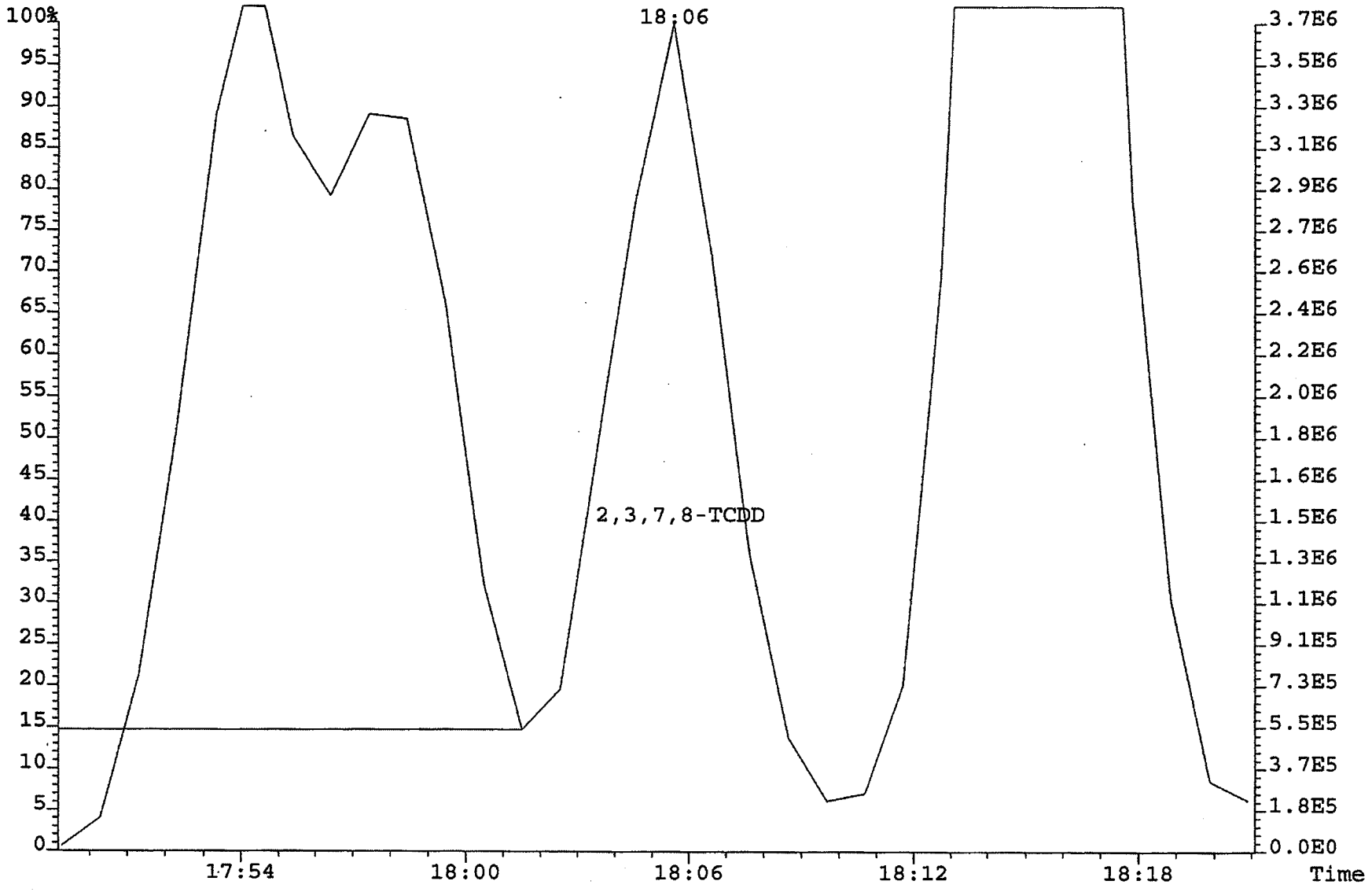
Peak Locate Examination:27-JUL-2010:20:43 File:RESCHK27JL101D5
Experiment:DIOXINRES Function:4 Reference:PFK



Peak Locate Examination:27-JUL-2010:20:49 File:RESCHK27JL101D5
Experiment:DIOXINRES Function:5 Reference:PFK



File:27JL101D5 #1-382 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
321.8936 Exp:DIOXINRES

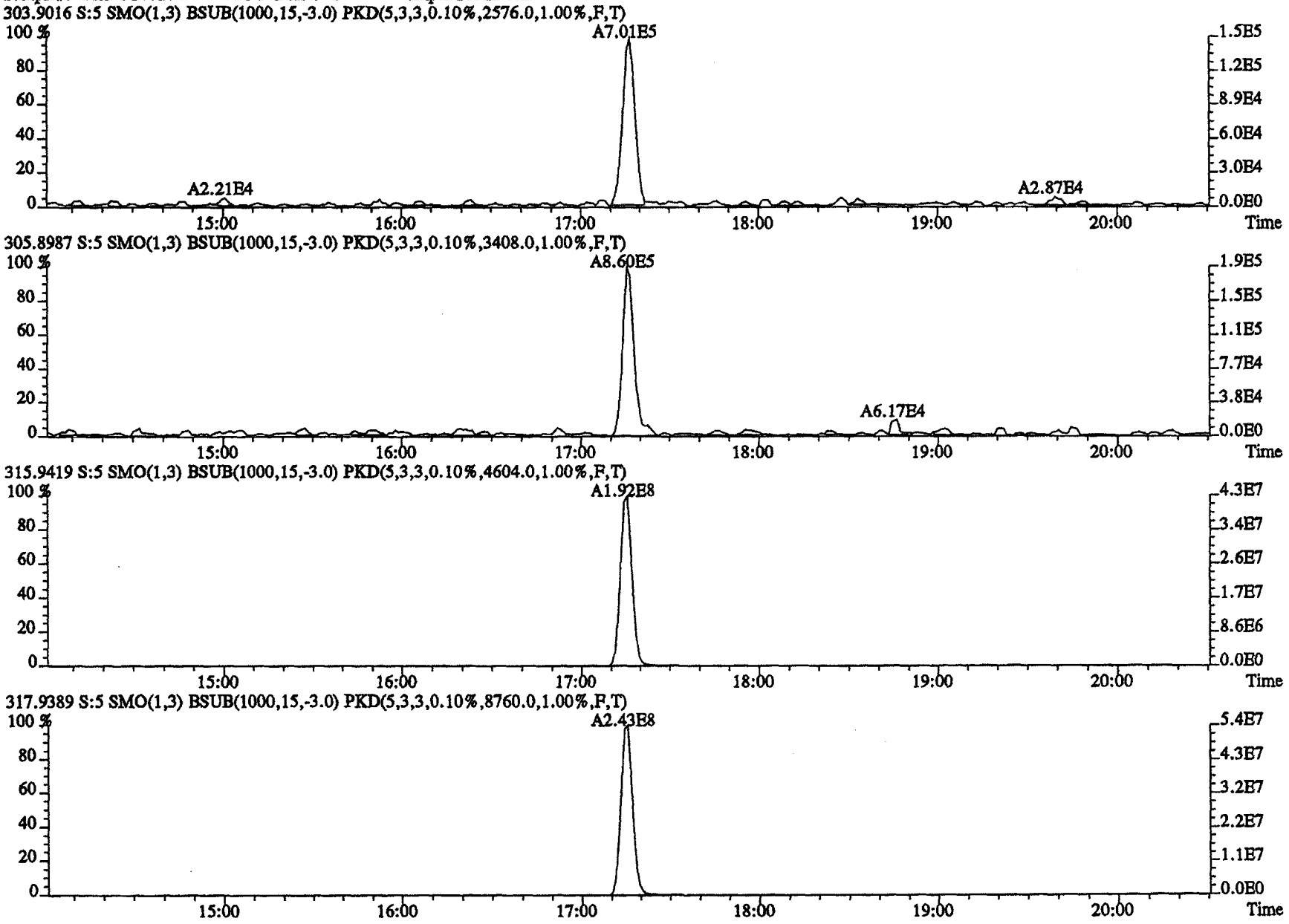


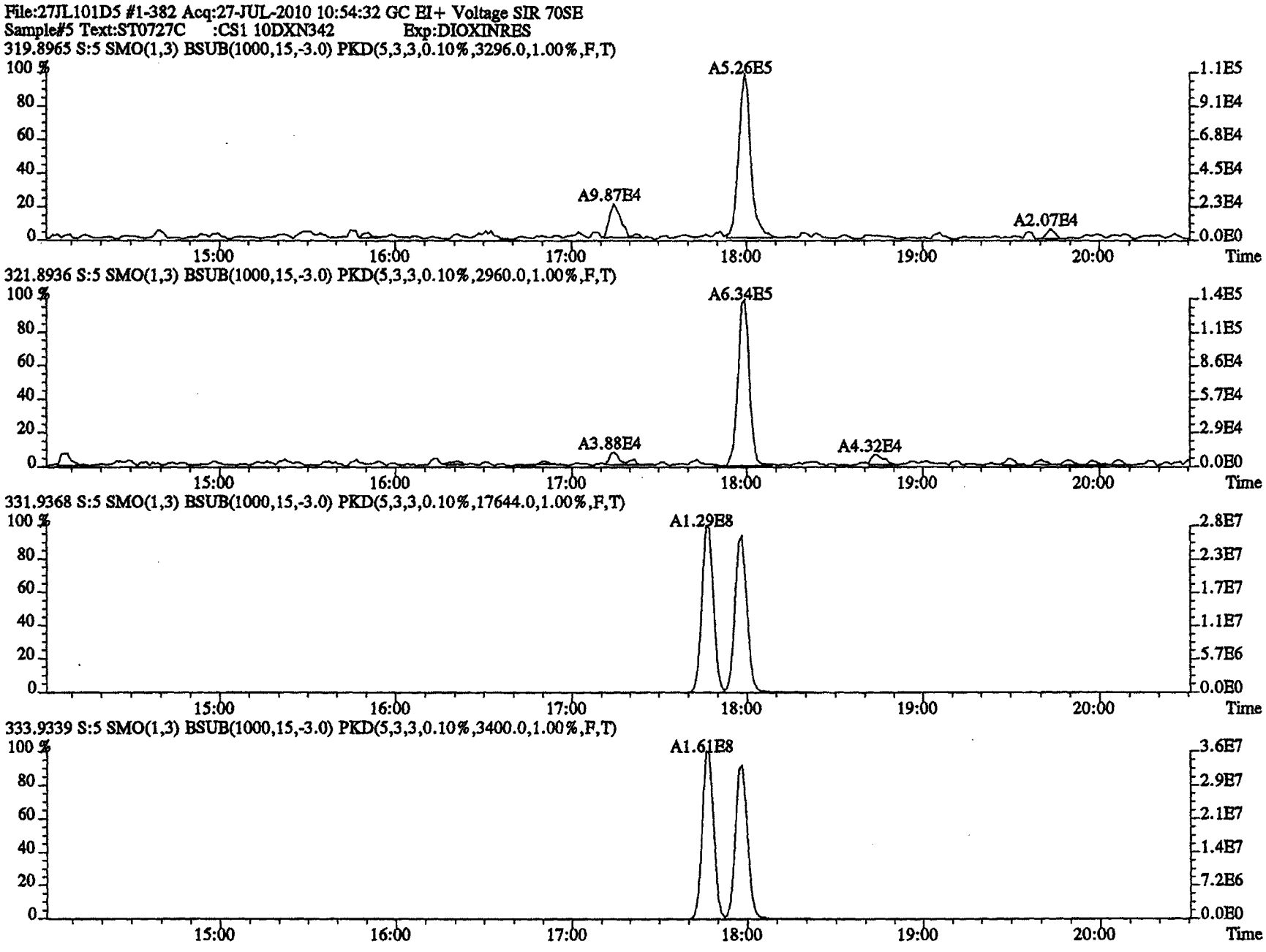
Run text: ST0727F Sample text: ST0727F :2nd Source 10DXN340
Run #6 Filename: 27JL101D5 S: 8 I: 1 Results: 27JL101D51613
Acquired: 27-JUL-10 13:06:44 Processed: 27-JUL-10 13:49:15
Run: 27JL101D5 Analyte: 1613 Cal: 16130727101D5
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	337280000	0.80	y	17:47	-	89.60	-	4.5	n
13C-2,3,7,8-TCDF	521696000	0.80	y	17:15	1.56	1980.90	0.80	99.0	n
2,3,7,8-TCDF	42944500	0.74	y	17:16	0.87	188.15	0.41	-	n
Total TCDF	43247626	1.03	n	16:34	0.87	189.48	0.41	-	n
13C-2,3,7,8-TCDD	330765000	0.80	y	17:58	0.94	2096.98	2.24	104.8	n
2,3,7,8-TCDD	29214900	0.78	y	17:59	0.96	184.53	0.63	-	n
Total TCDD	29341091	1.75	n	17:15	0.96	185.33	0.63	-	n
37Cl-2,3,7,8-TCDD	82730400	1.00	y	17:59	1.14	431.87	0.49	108.0	n
13C-1,2,3,7,8-PeCDF	412015000	1.64	y	22:19	1.06	2300.65	1.56	115.0	n
1,2,3,7,8-PeCDF	106465900	1.58	y	22:21	1.08	478.56	0.75	-	n
13C-2,3,4,7,8-PeCDF	378487000	1.63	y	23:39	1.01	2228.11	1.65	111.4	n
2,3,4,7,8-PeCDF	94125200	1.60	y	23:40	1.03	485.10	0.91	-	n
Total F2 PeCDF	203691851	2.40	n	20:59	1.05	978.56	0.83	-	n
Total F1 PeCDF	222392	0.91	n	15:23	1.05	1.07	0.67	-	n
13C-1,2,3,7,8-PeCDD	238860500	1.58	y	24:22	0.65	2191.86	1.08	109.6	n
1,2,3,7,8-PeCDD	50569700	1.67	y	24:23	0.92	457.86	1.27	-	n
Total PeCDD	50744435	0.81	n	22:20	0.92	459.44	1.27	-	n
13C-1,2,3,7,8,9-HxCDD	261457000	1.28	y	32:14	-	91.97	-	-	n
13C-1,2,3,4,7,8-HxCDF	286693900	0.51	y	30:30	0.99	2224.04	0.66	111.2	n
1,2,3,4,7,8-HxCDF	81067900	1.25	y	30:31	1.15	490.29	0.60	-	n
13C-1,2,3,6,7,8-HxCDF	338655000	0.53	y	30:42	1.14	2262.64	0.57	113.1	n
1,2,3,6,7,8-HxCDF	87905400	1.27	y	30:43	1.07	483.58	0.52	-	n
13C-2,3,4,6,7,8-HxCDF	322498000	0.52	y	31:33	1.09	2265.65	0.60	113.3	n
2,3,4,6,7,8-HxCDF	84487700	1.29	y	31:34	1.10	474.45	0.43	-	n
13C-1,2,3,7,8,9-HxCDF	311789000	0.53	y	32:26	1.08	2211.14	0.60	110.6	n
1,2,3,7,8,9-HxCDF	81683000	1.27	y	32:27	1.09	482.72	0.41	-	n
Total HxCDF	335144000	1.25	y	30:31	1.10	1931.03	0.49	-	n
13C-1,2,3,4,7,8-HxCDD	220065800	1.29	y	31:46	0.80	2100.44	0.85	105.0	n
1,2,3,4,7,8-HxCDD	53268200	1.28	y	31:47	0.98	491.57	1.17	-	n
13C-1,2,3,6,7,8-HxCDD	222211700	1.29	y	31:53	0.77	2213.55	0.89	110.7	n
1,2,3,6,7,8-HxCDD	54964000	1.31	y	31:54	1.11	447.02	1.06	-	n
1,2,3,7,8,9-HxCDD	63579100	1.27	y	32:15	1.21	473.39	0.96	-	n
Total HxCDD	171811300	1.28	y	31:47	1.10	1411.98	1.06	-	n
13C-1,2,3,4,6,7,8-HpCDF	285878900	0.44	y	34:02	0.98	2229.35	4.39	111.5	n
1,2,3,4,6,7,8-HpCDF	95529400	1.06	y	34:03	1.35	495.18	1.03	-	n
13C-1,2,3,4,7,8,9-HpCDF	249318800	0.45	y	35:15	0.88	2168.86	4.90	108.4	n
1,2,3,4,7,8,9-HpCDF	79843500	1.03	y	35:16	1.32	484.85	1.30	-	n
Total HpCDF	177173445	1.06	y	34:03	1.34	990.10	1.15	-	n

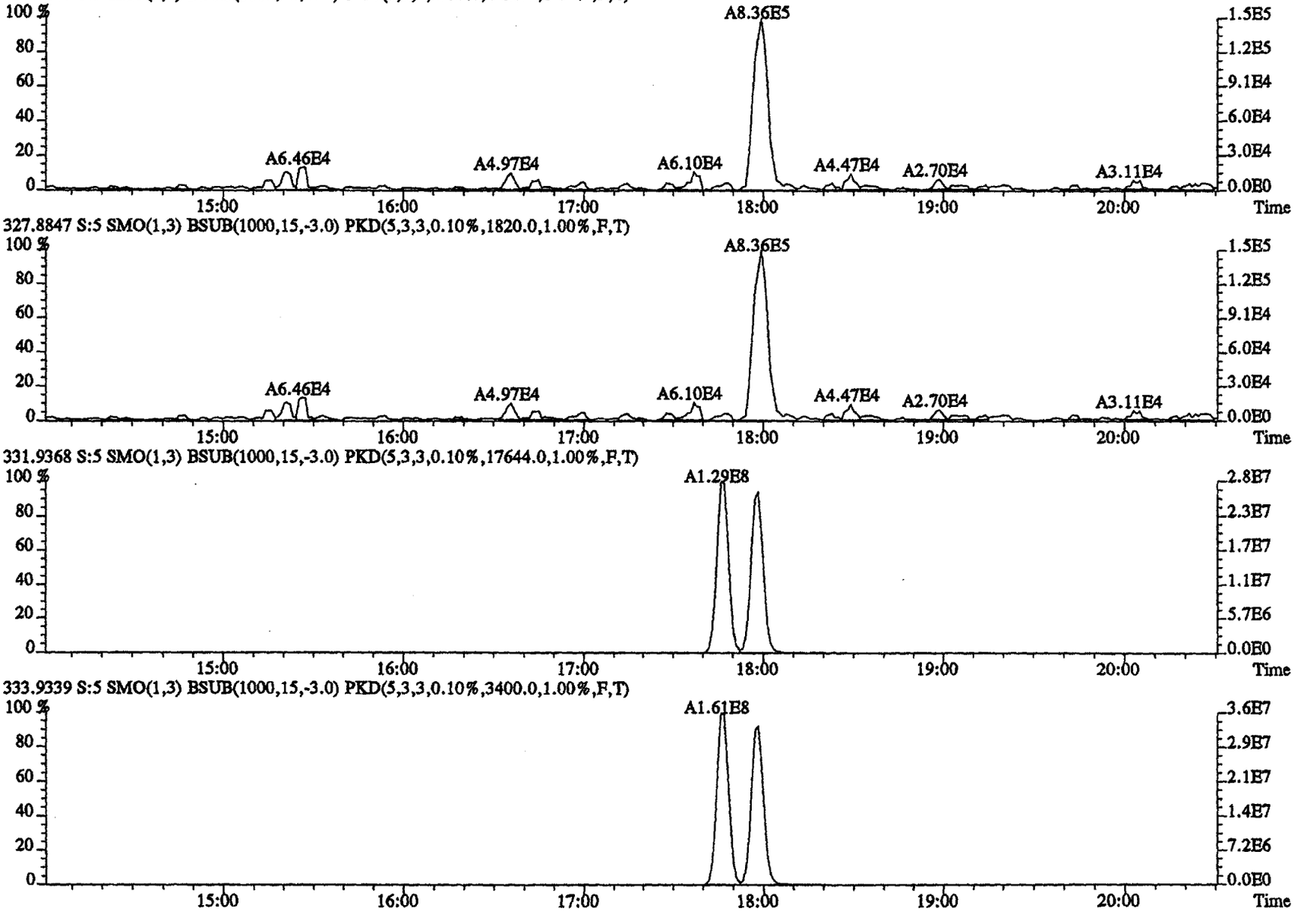
13C-1,2,3,4,6,7,8-HpCDD	239256000	1.11	y	34:56	0.81	2271.52	2.14	113.6	n
1,2,3,4,6,7,8-HpCDD	57115100	1.06	y	34:57	1.03	465.19	0.82	-	n
Total HpCDD	58367666	2.73	n	34:02	1.03	475.39	0.82	-	n
13C-OCDD	346321000	0.92	y	37:35	0.62	4306.66	5.23	107.7	n
OCDF	119805200	0.87	y	37:42	1.44	957.64	1.36	-	n
OCDD	90839200	0.91	y	37:35	1.09	962.24	1.43	-	n

File:27JL101D5 #1-382 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES

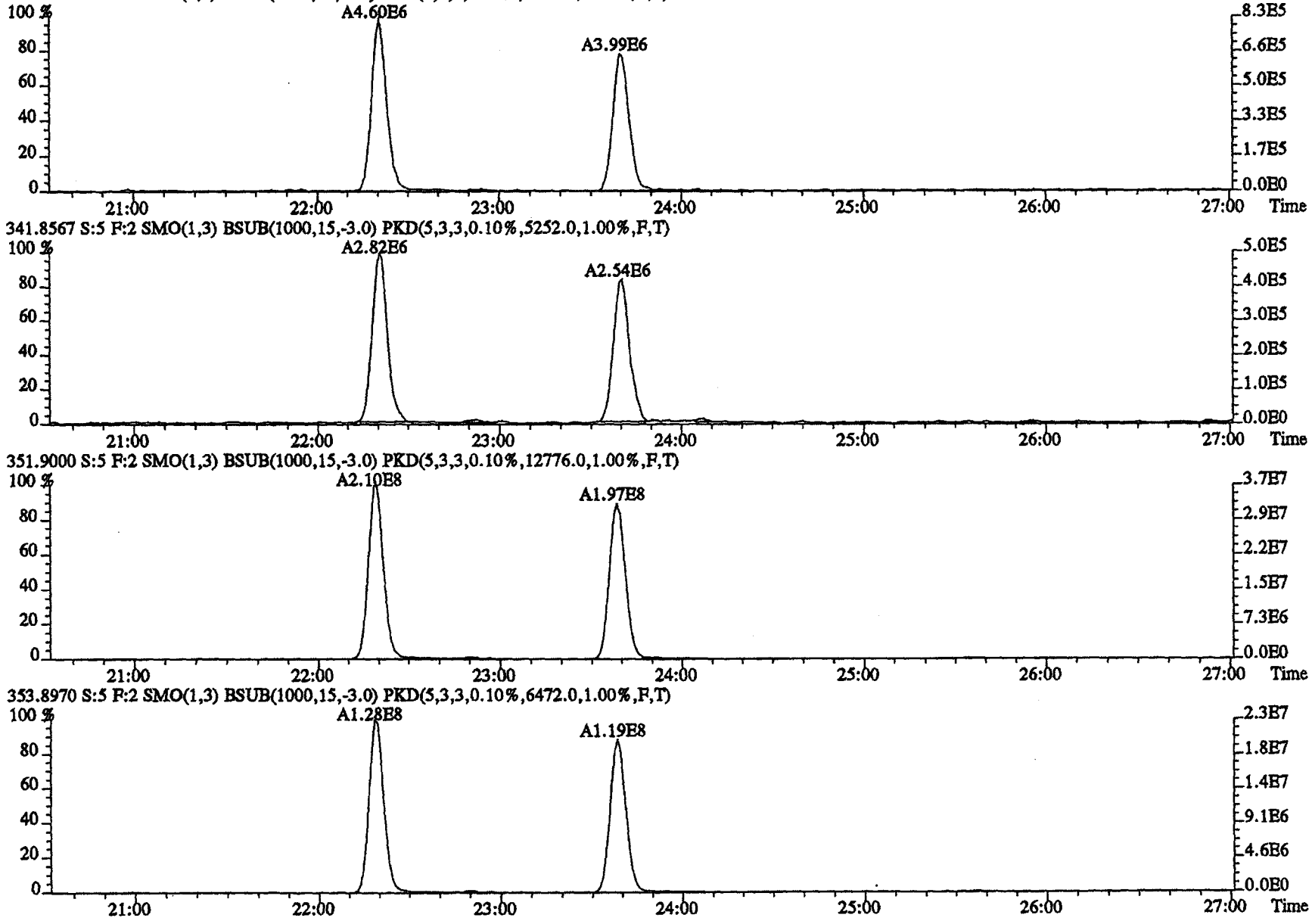




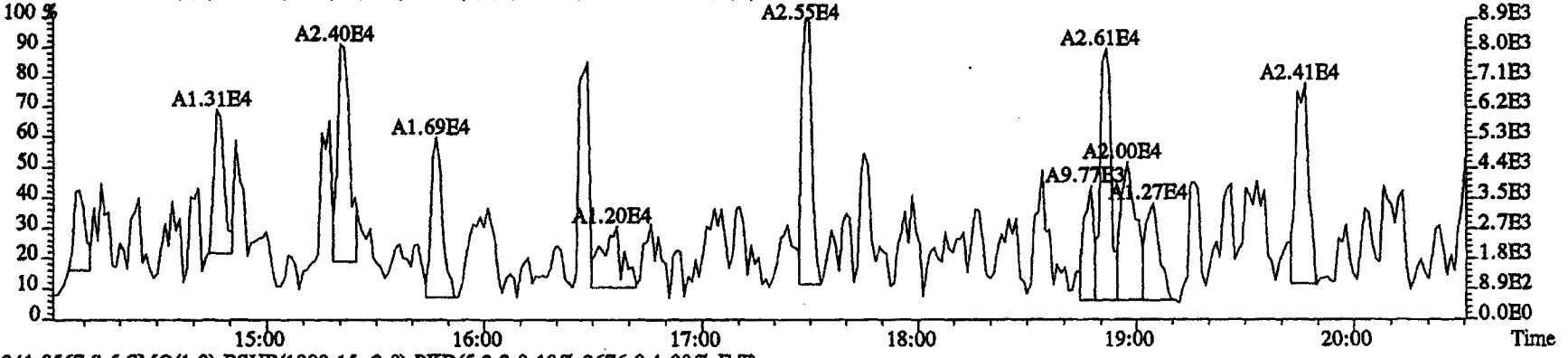
File:27JL101D5 #1-382 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES



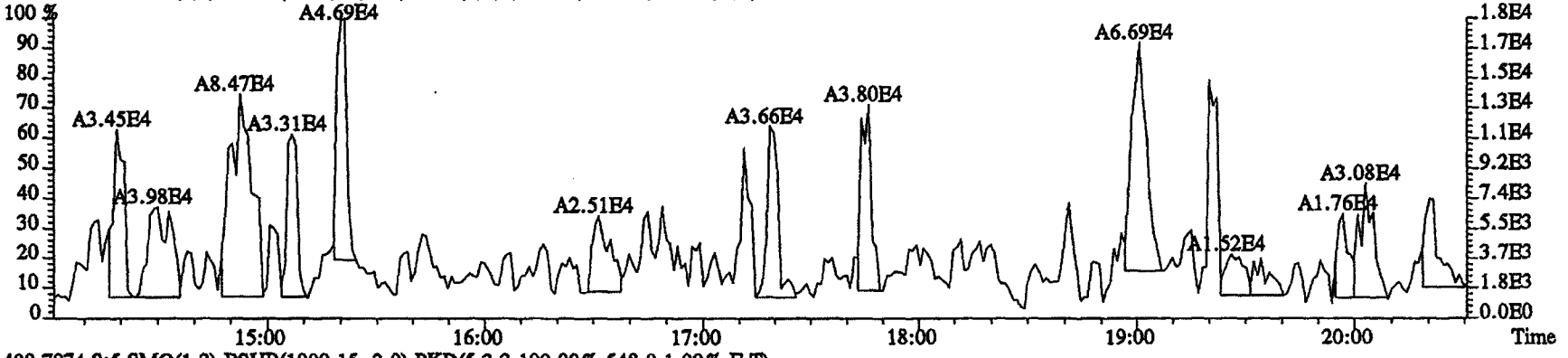
File:27JL101D5 #1-404 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES



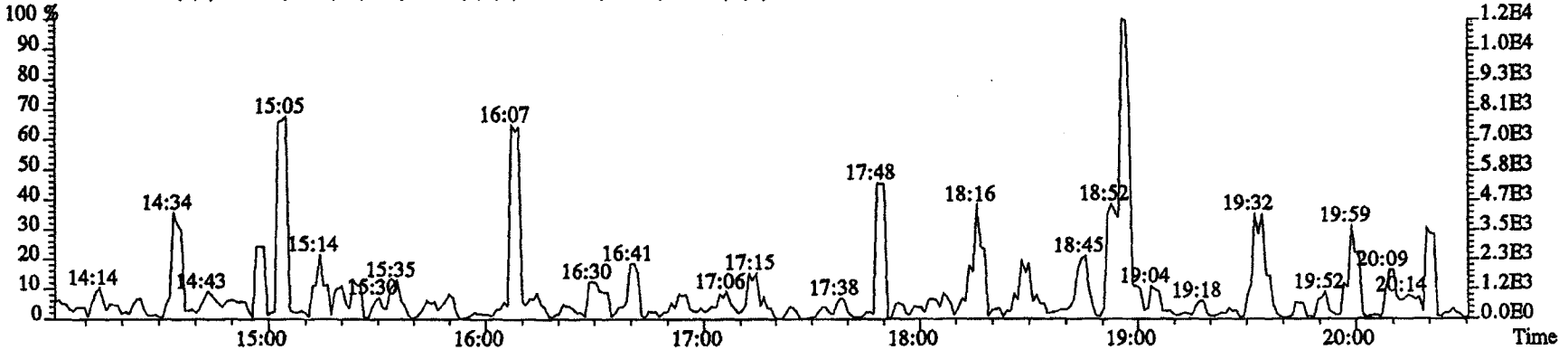
File:27JL101D5 #1-382 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
339.8597 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2332.0,1.00%,F,T)



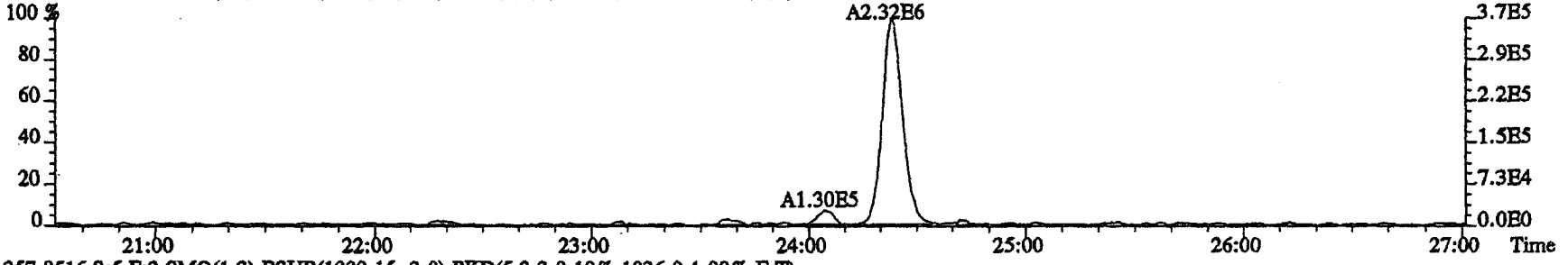
341.8567 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3676.0,1.00%,F,T)



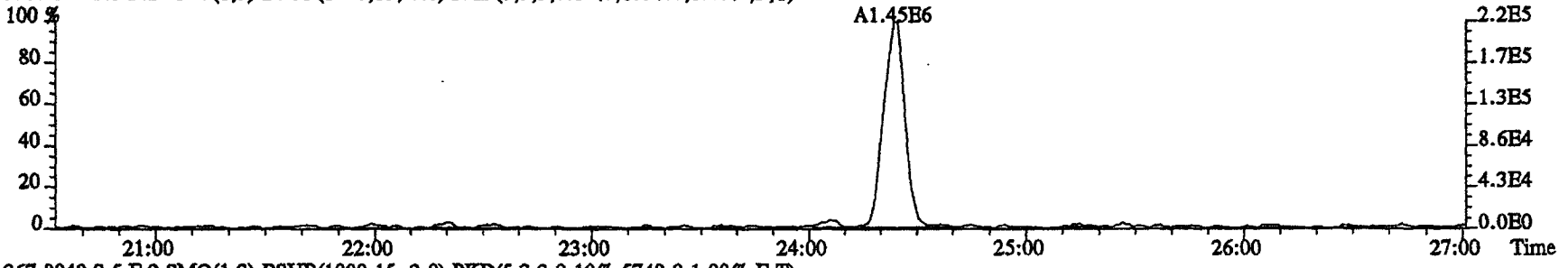
409.7974 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,548.0,1.00%,F,T)



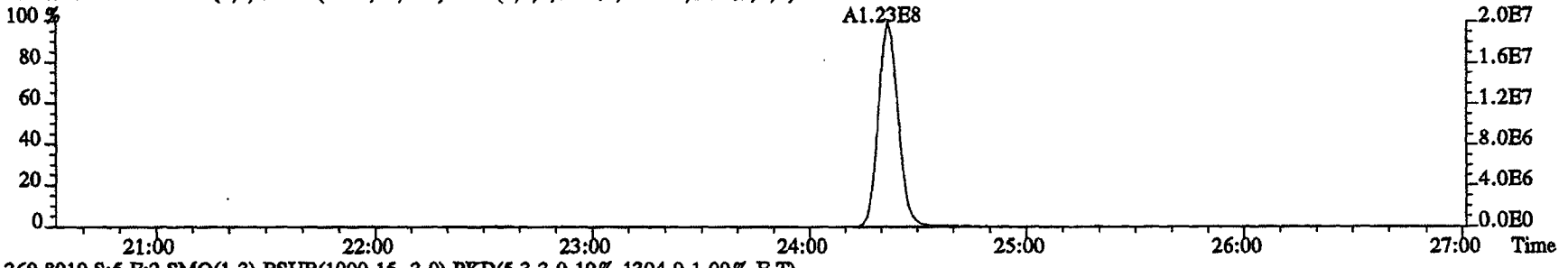
File:27JL101D5 #1-404 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)



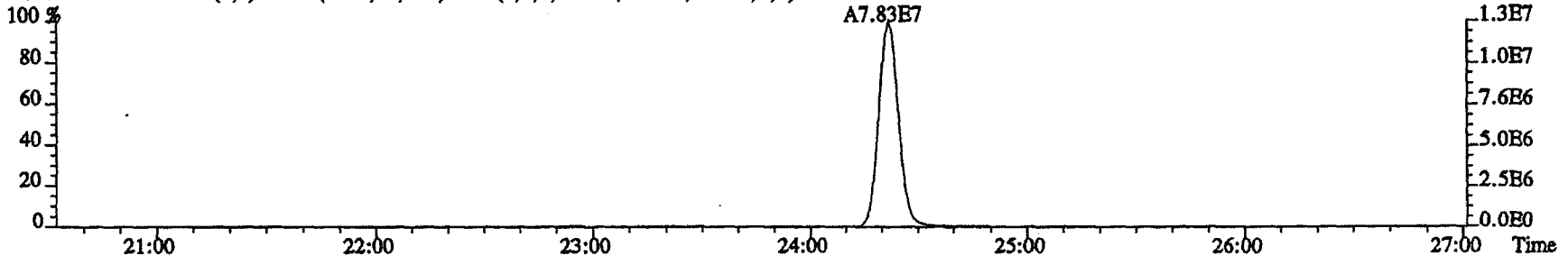
357.8516 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1836.0,1.00%,F,T)



367.8949 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5748.0,1.00%,F,T)

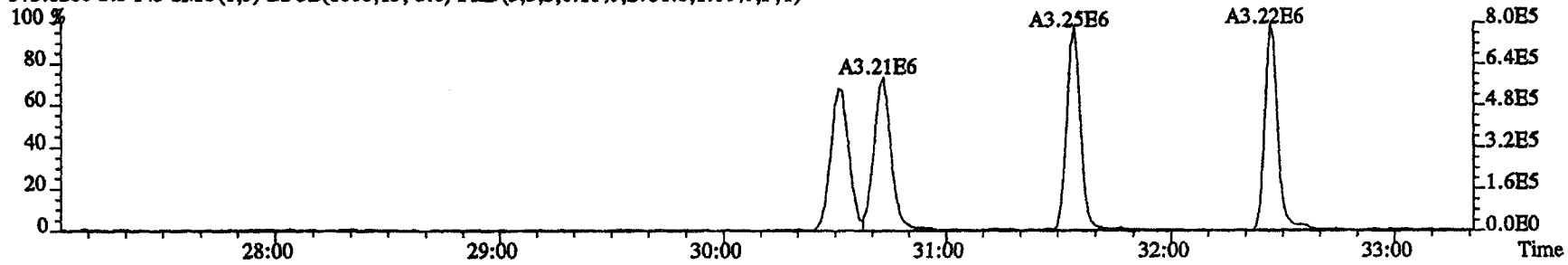


369.8919 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1304.0,1.00%,F,T)

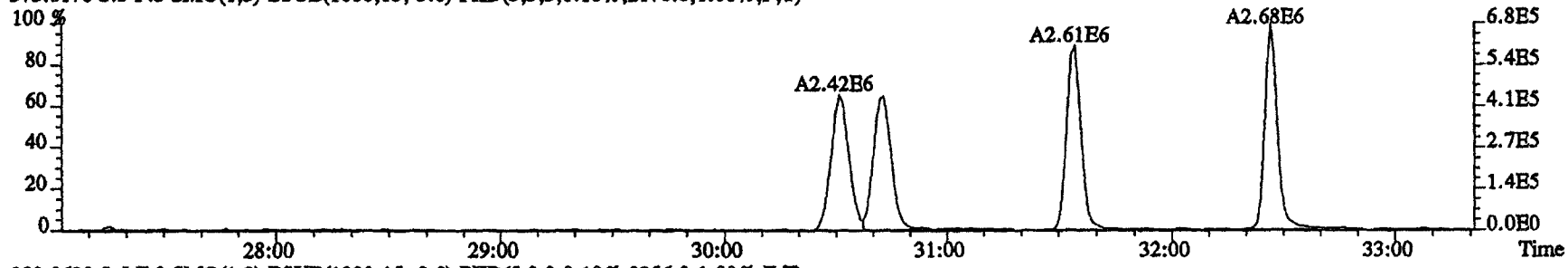


File:27JL101D5 #1-406 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES

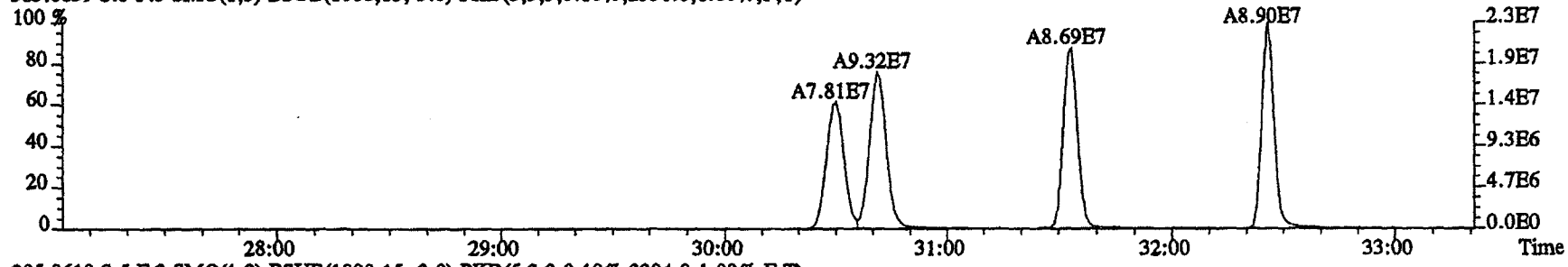
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)



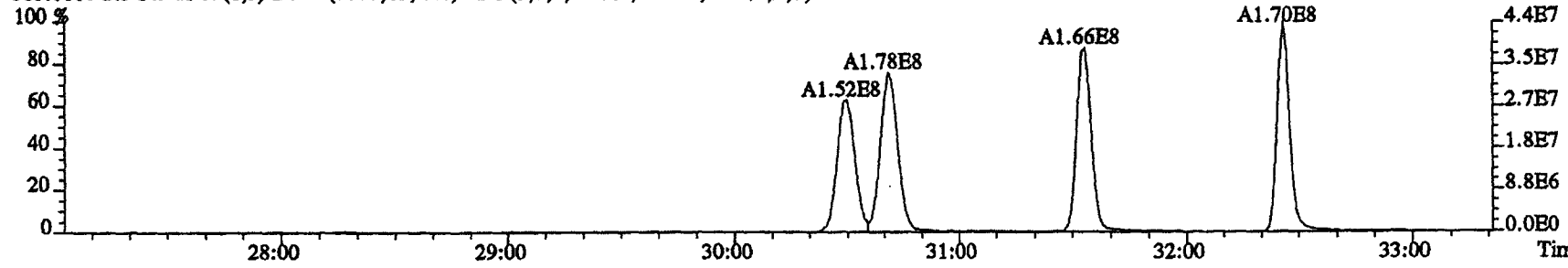
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2176.0,1.00%,F,T)



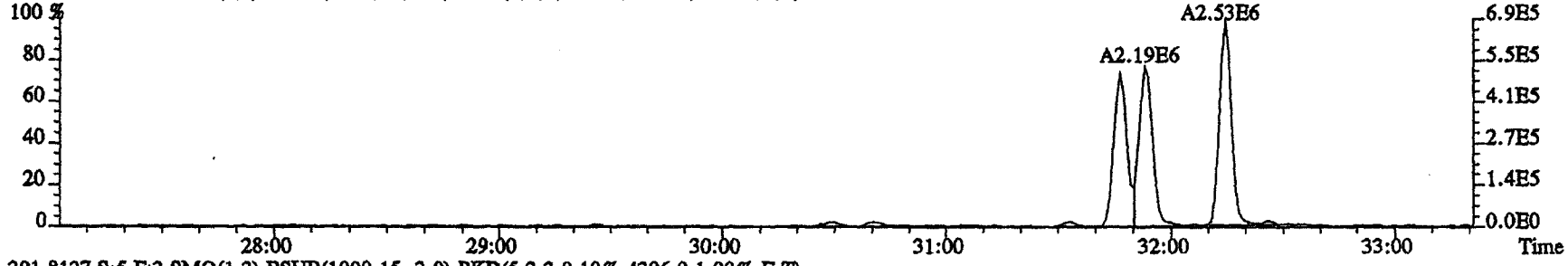
383.8639 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2356.0,1.00%,F,T)



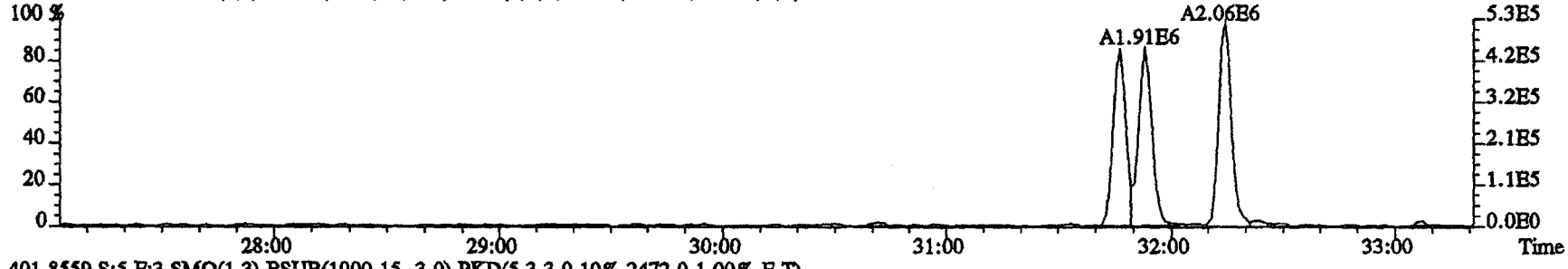
385.8610 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2204.0,1.00%,F,T)



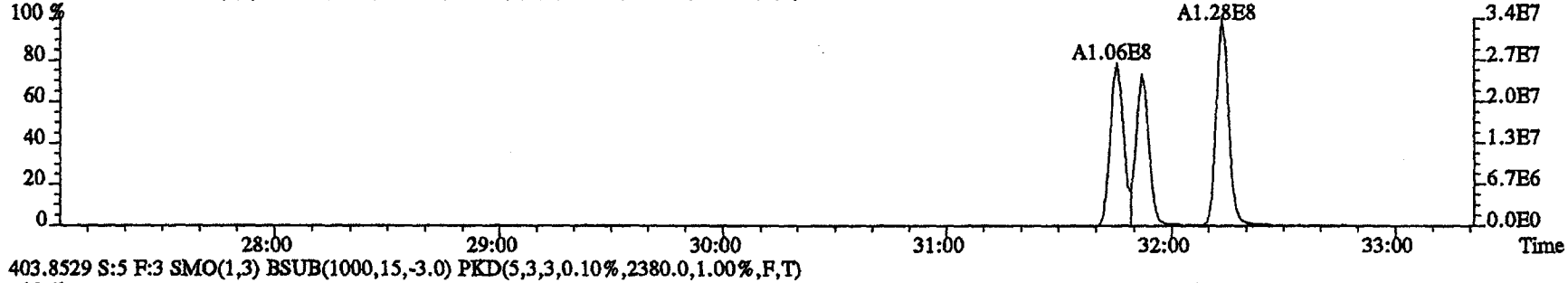
File:27JL101D5 #1-406 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



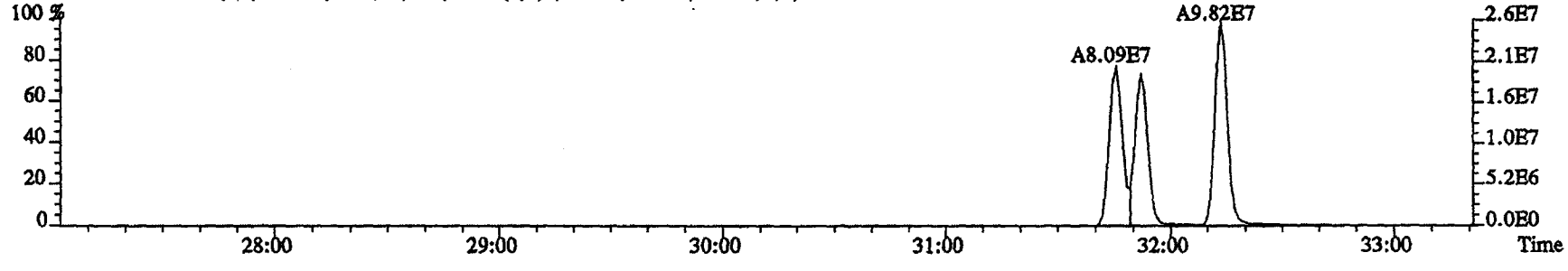
391.8127 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4396.0,1.00%,F,T)



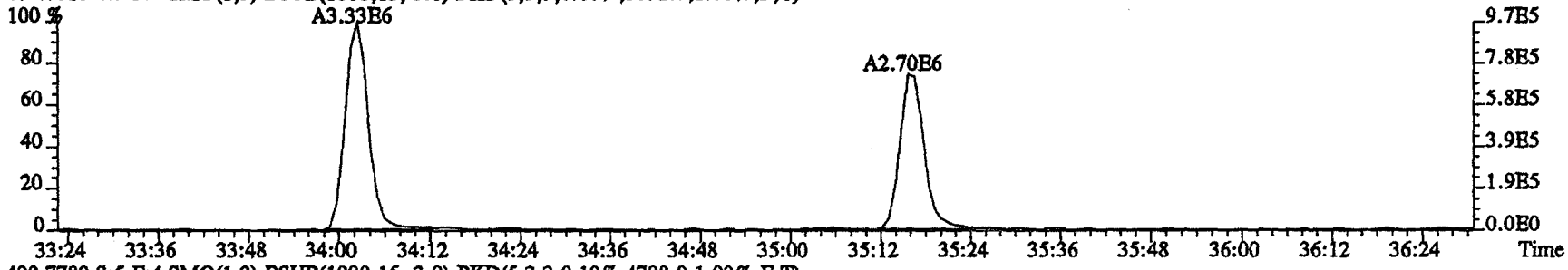
401.8559 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2472.0,1.00%,F,T)



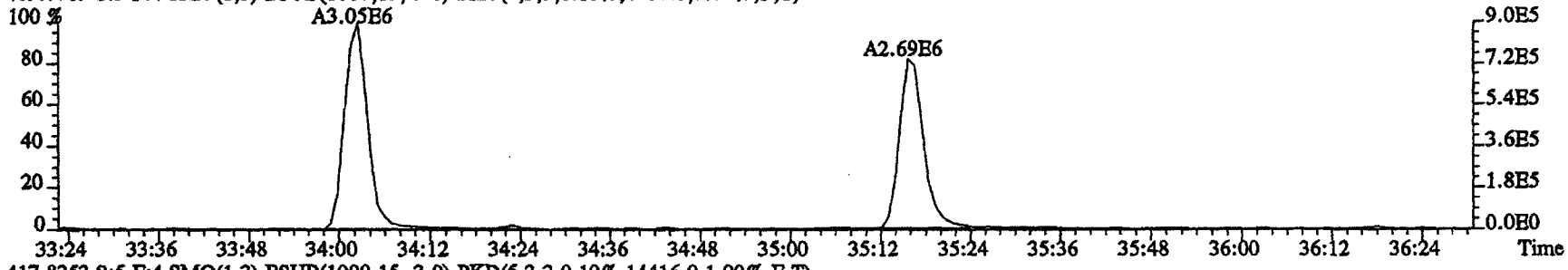
403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2380.0,1.00%,F,T)



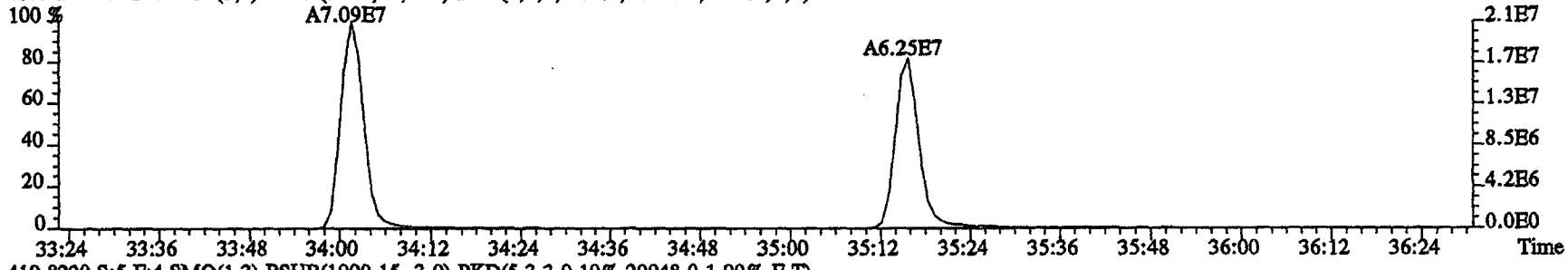
File:27JL101D5 #1-214 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5052.0,1.00%,F,T)



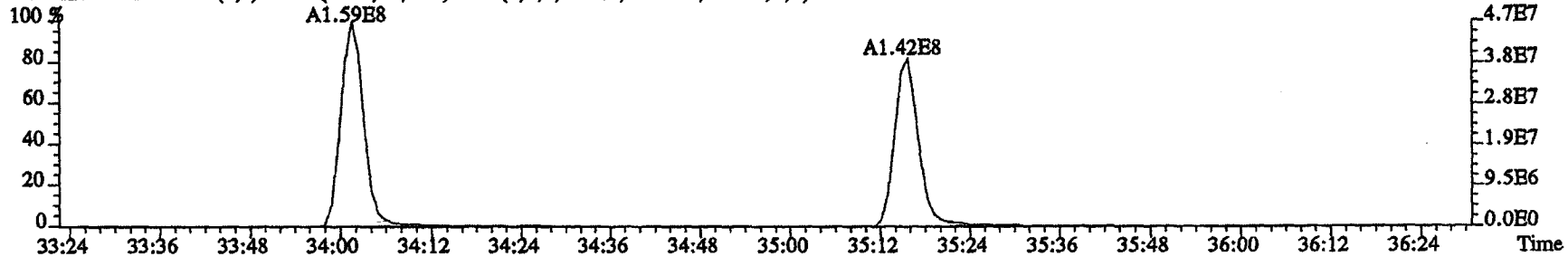
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4708.0,1.00%,F,T)



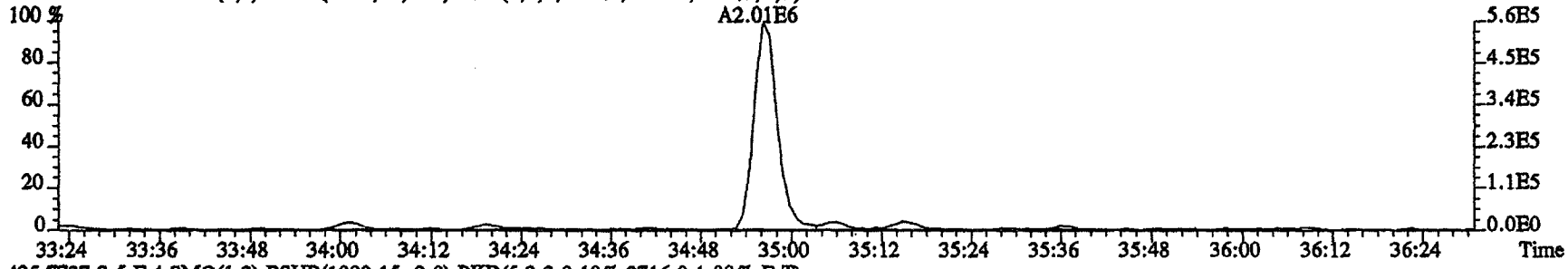
417.8253 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14416.0,1.00%,F,T)



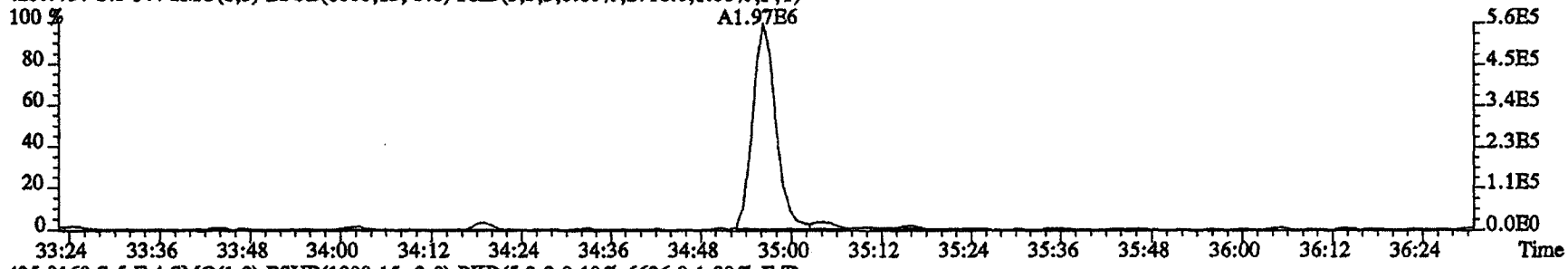
419.8220 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20948.0,1.00%,F,T)



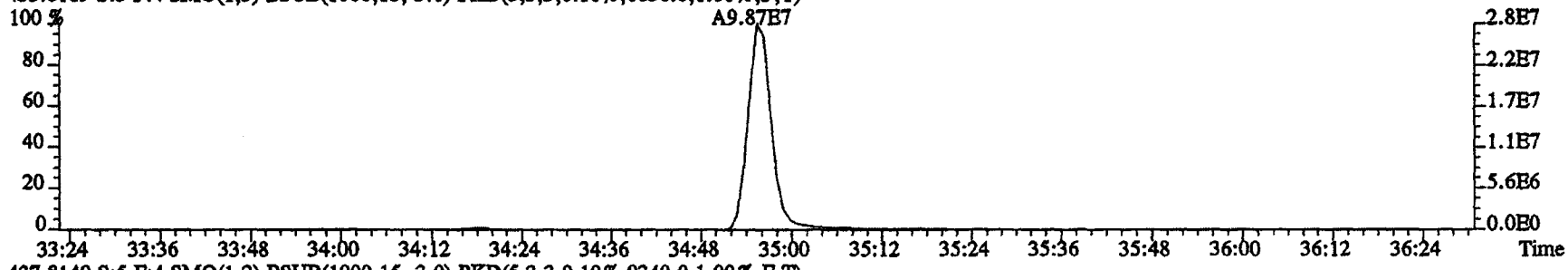
File:27JL101D5 #1-214 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3400.0,1.00%,F,T)



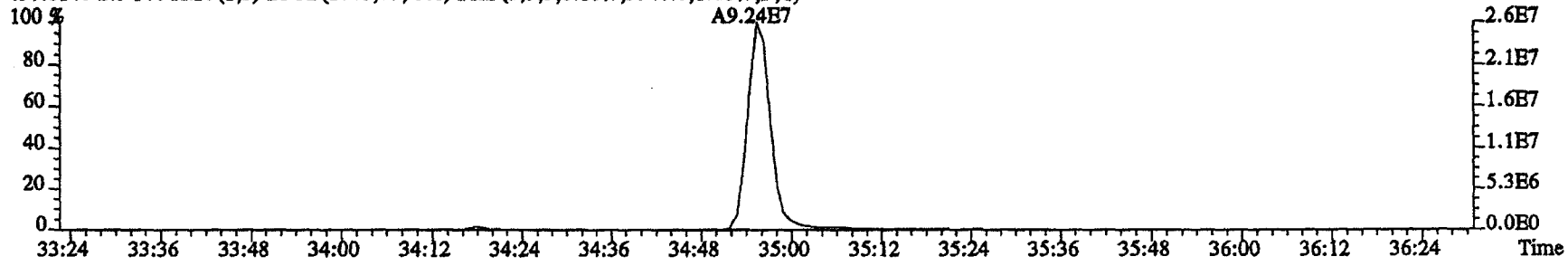
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2716.0,1.00%,F,T)



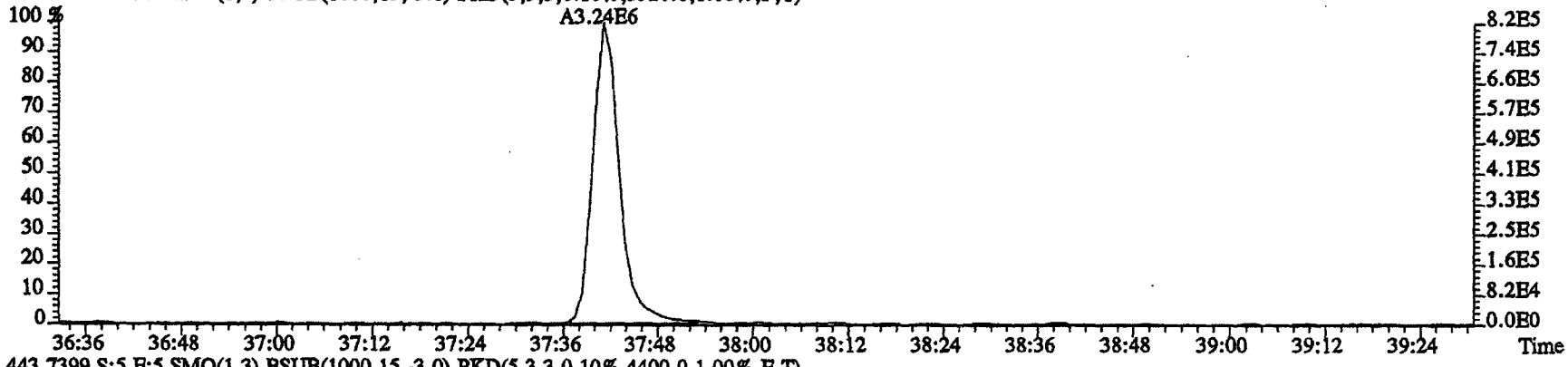
435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6636.0,1.00%,F,T)



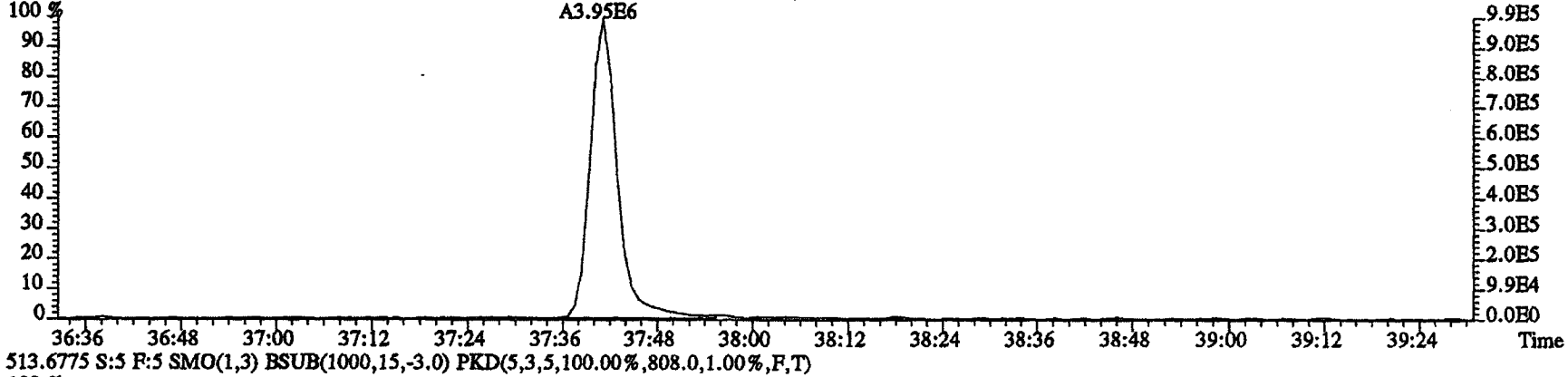
437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9340.0,1.00%,F,T)



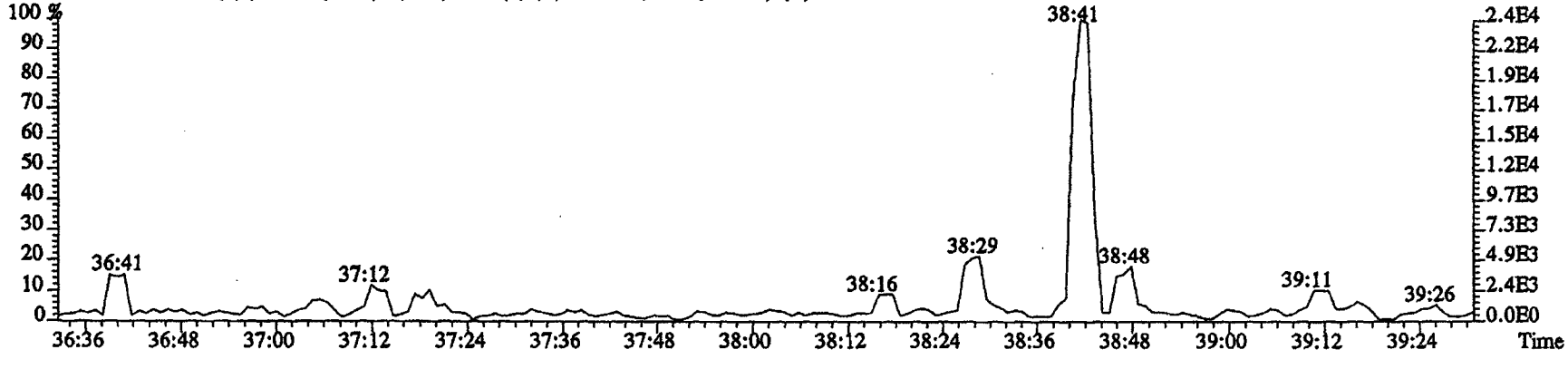
File:27JL101D5 #1-196 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)

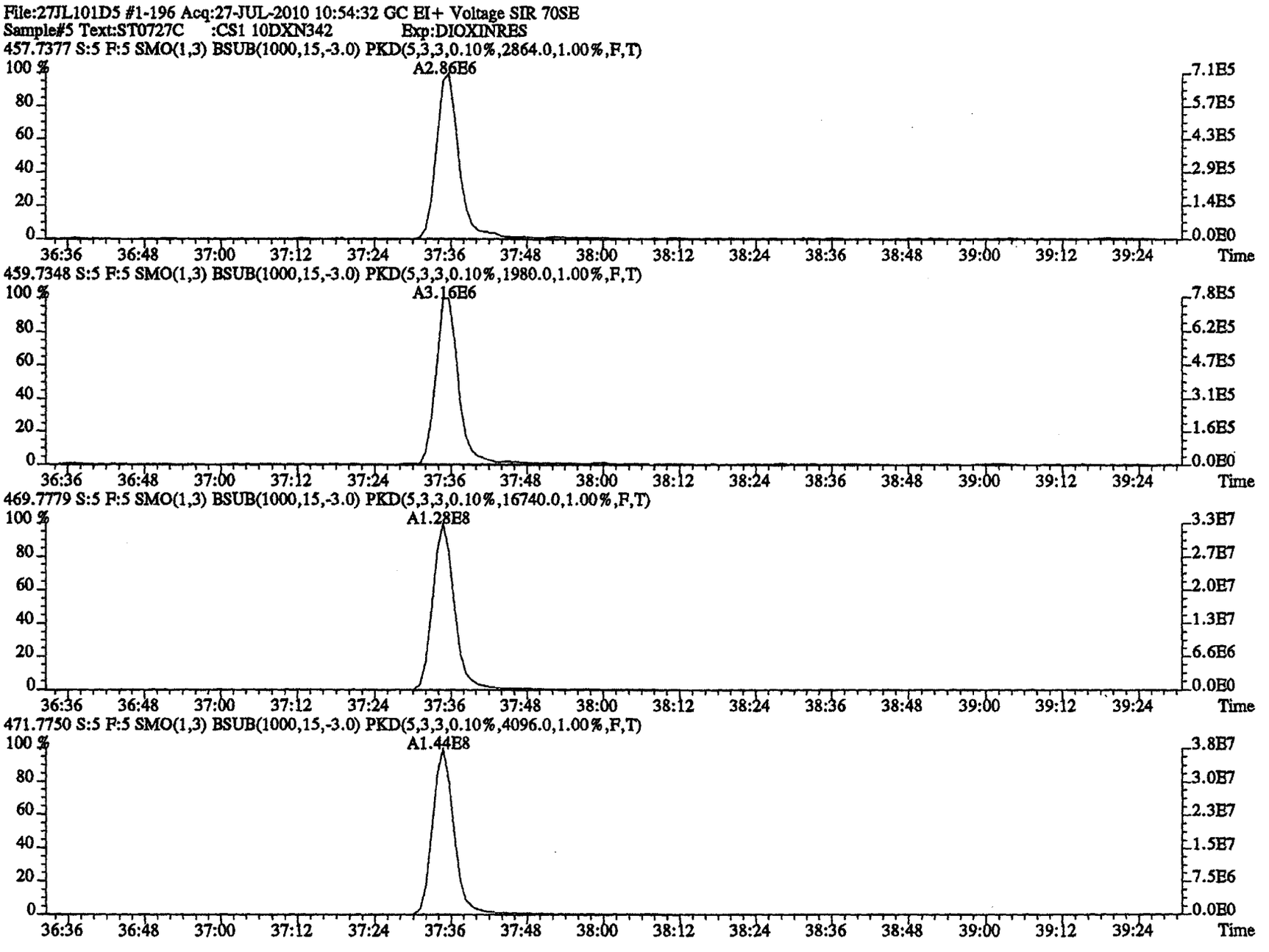


443.7399 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4400.0,1.00%,F,T)

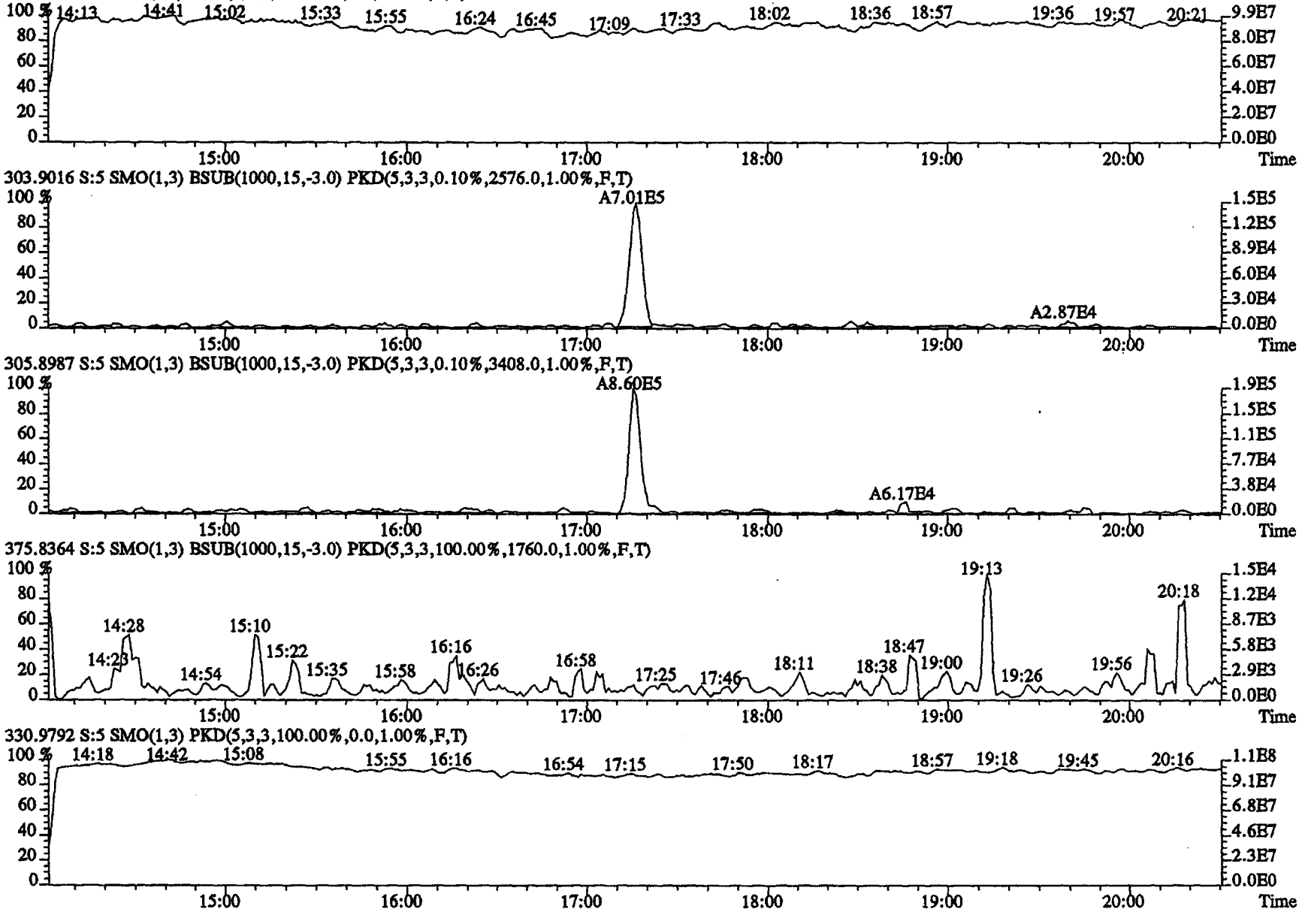


513.6775 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,808.0,1.00%,F,T)

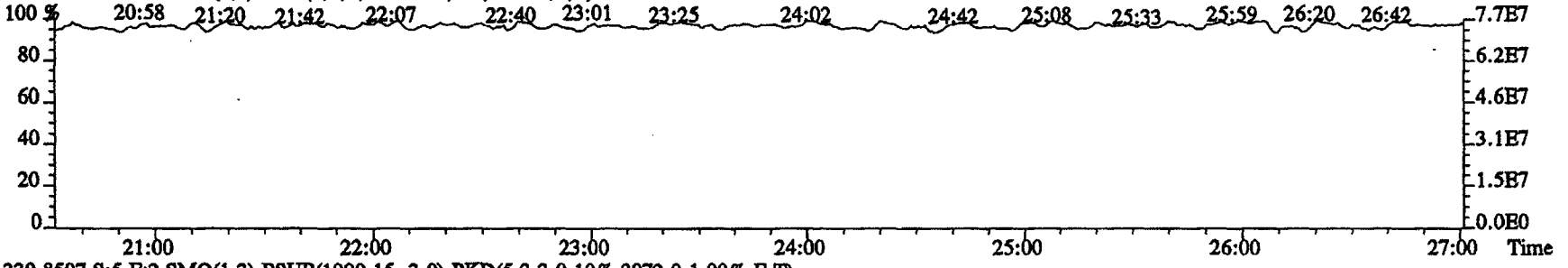




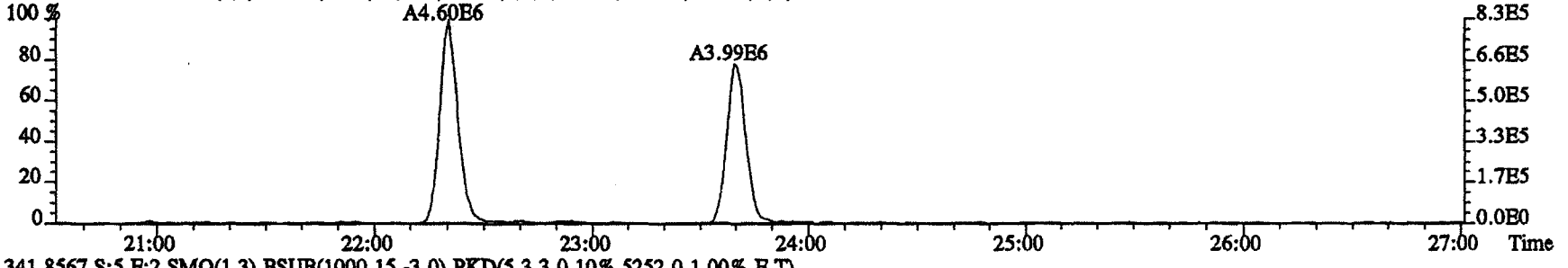
File:27JL101D5 #1-382 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES



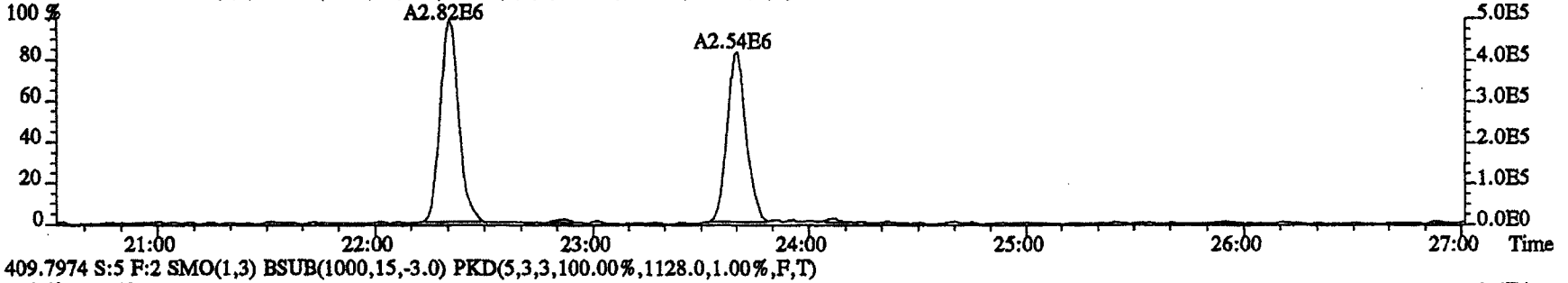
File:27JL101D5 #1-404 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



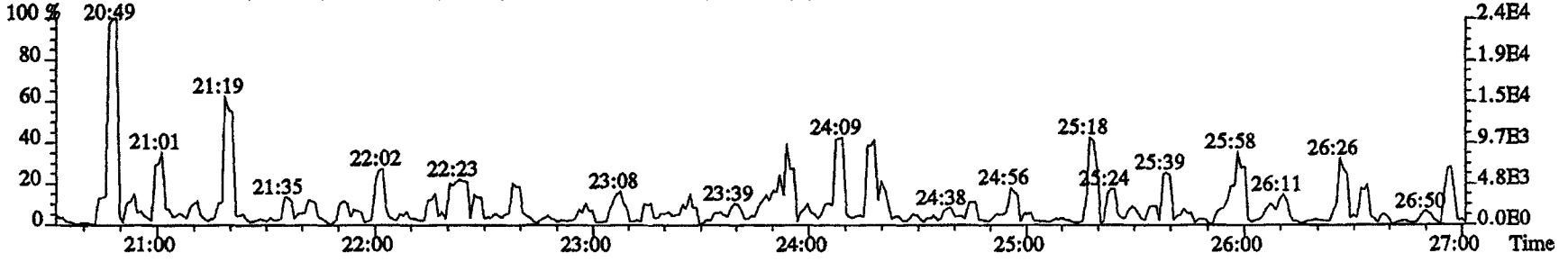
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2972.0,1.00%,F,T)

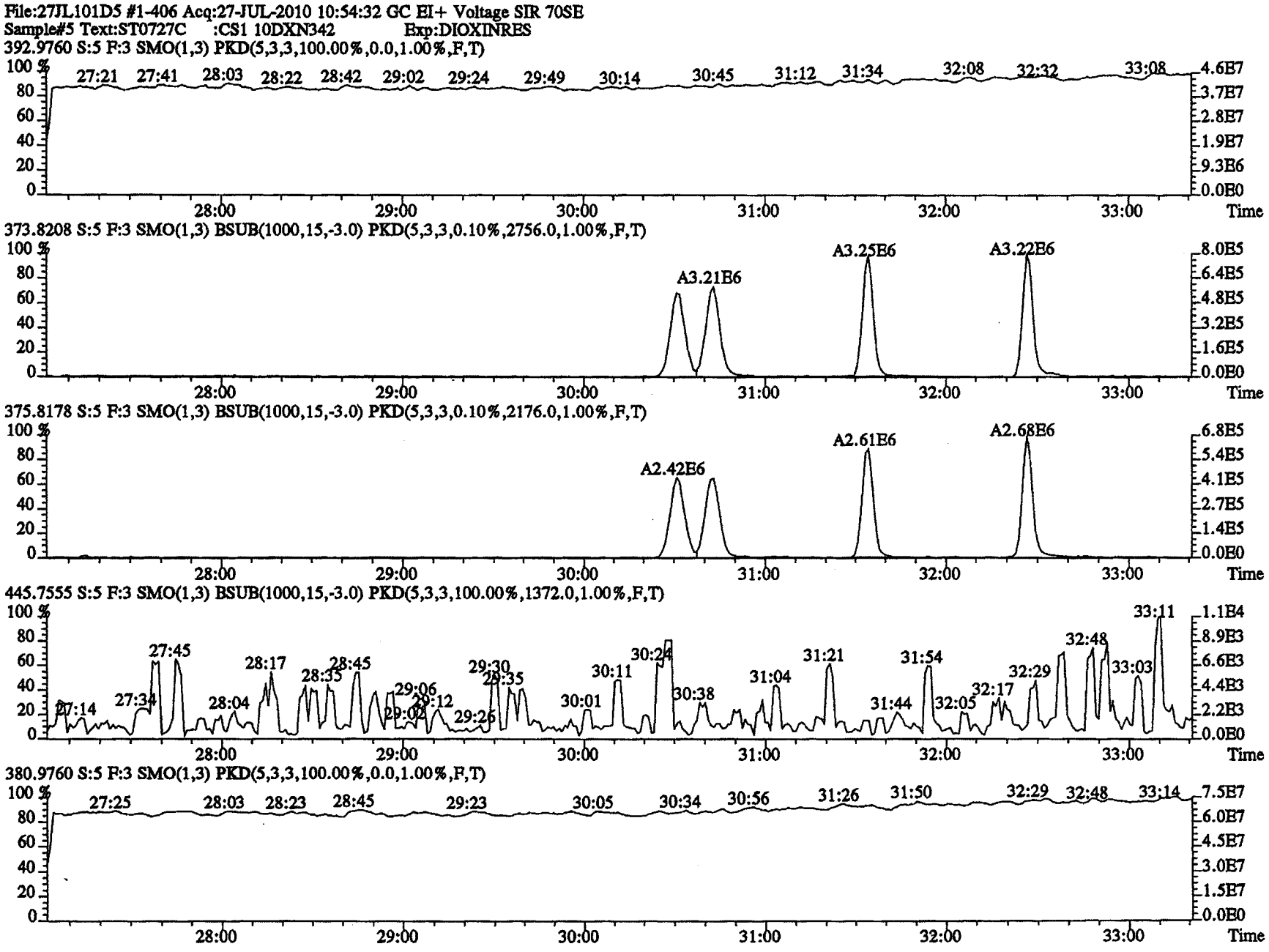


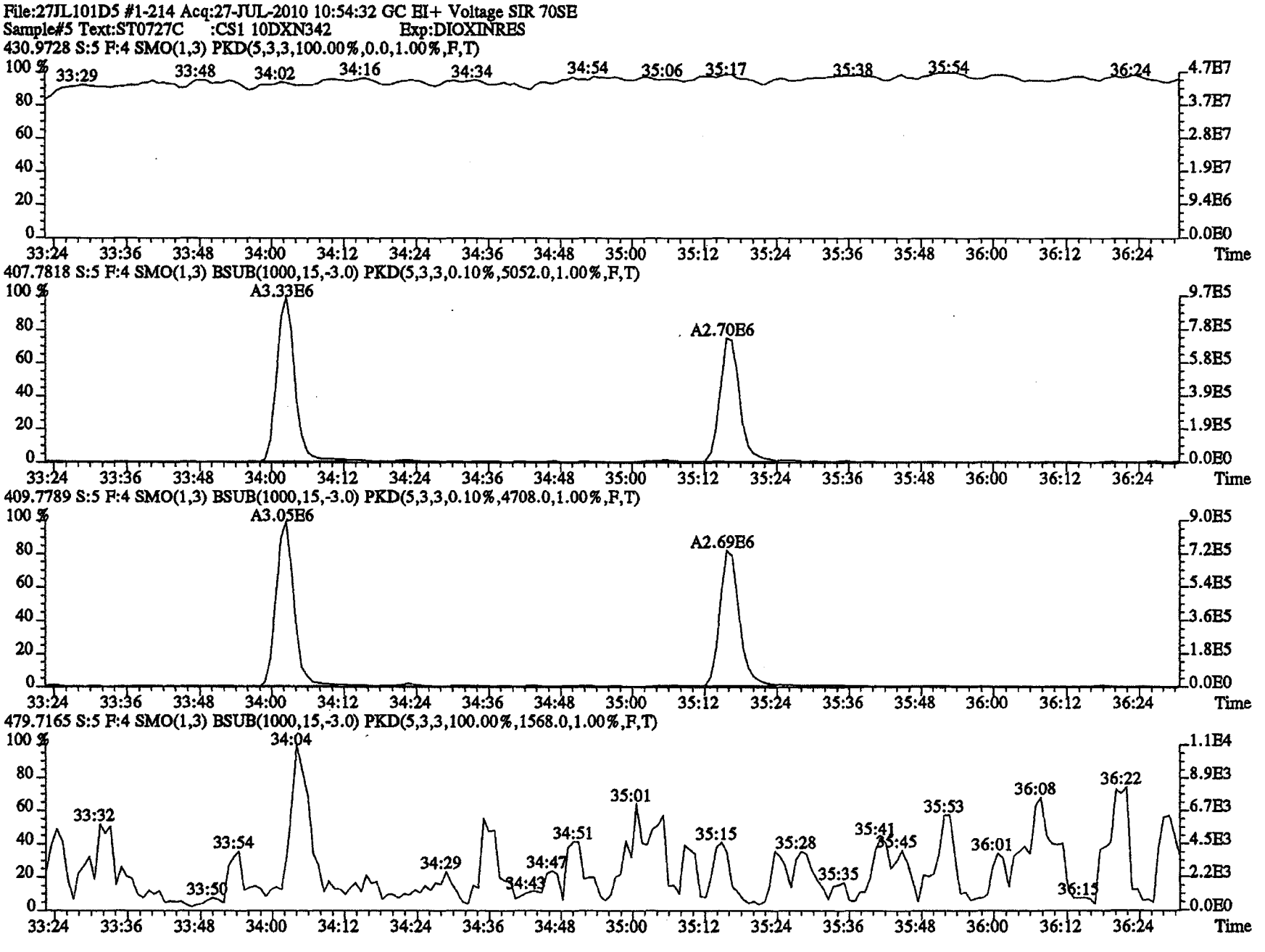
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)

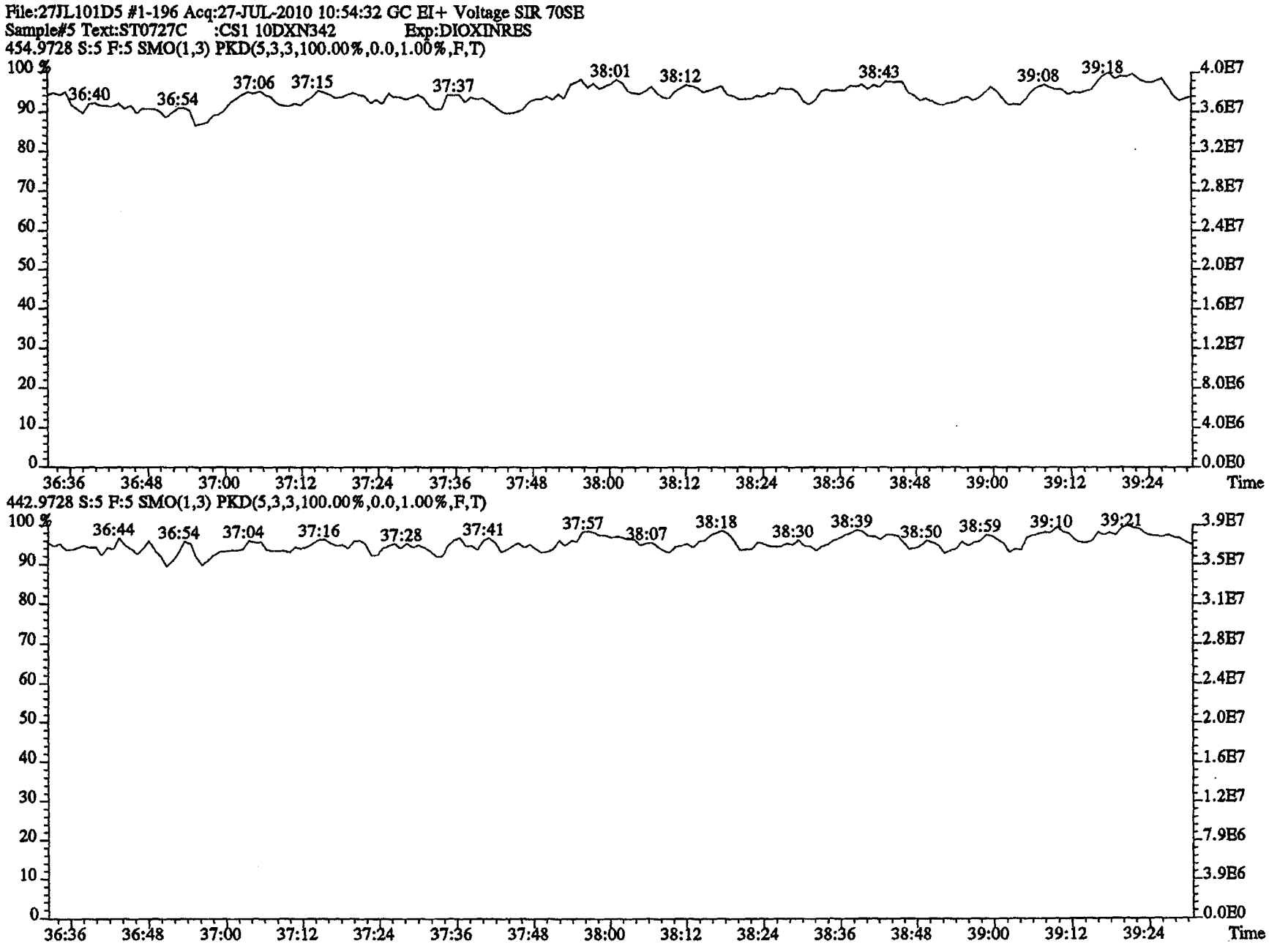


409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1128.0,1.00%,F,T)

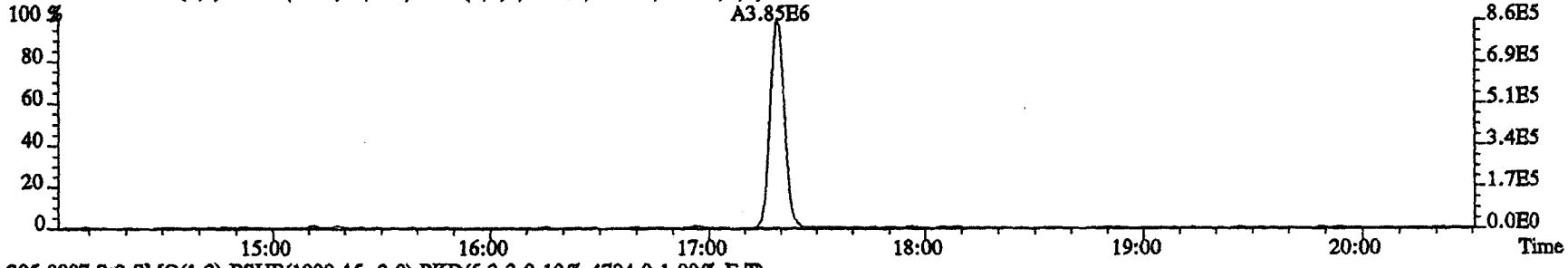




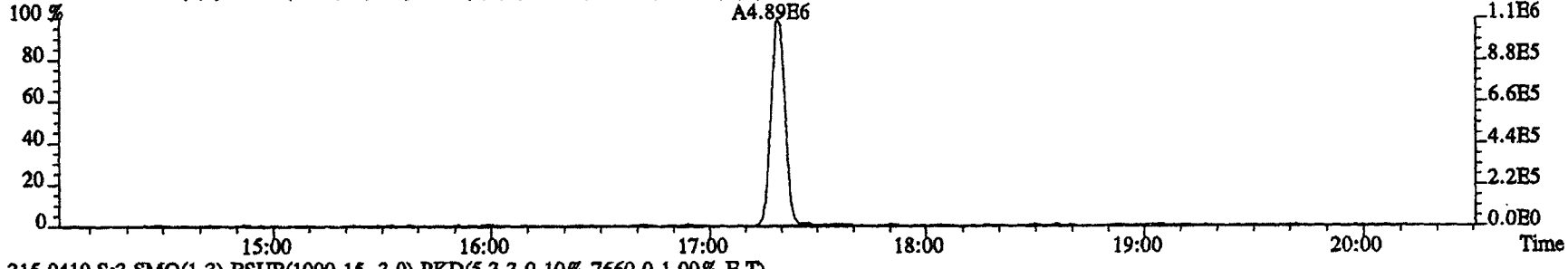



File:27JL101D5 #1-196 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
36:40
36:54
37:06
37:15
37:37
38:01
38:12
38:43
39:08
39:18
4.0E7
3.6E7
3.2E7
2.8E7
2.4E7
2.0E7
1.6E7
1.2E7
8.0E6
4.0E6
0.0E0
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
Time
442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
36:44
36:54
37:04
37:16
37:28
37:41
37:57
38:07
38:18
38:30
38:39
38:50
38:59
39:10
39:21
3.9E7
3.5E7
3.1E7
2.8E7
2.4E7
2.0E7
1.6E7
1.2E7
7.9E6
3.9E6
0.0E0
36:36
36:48
37:00
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
Time

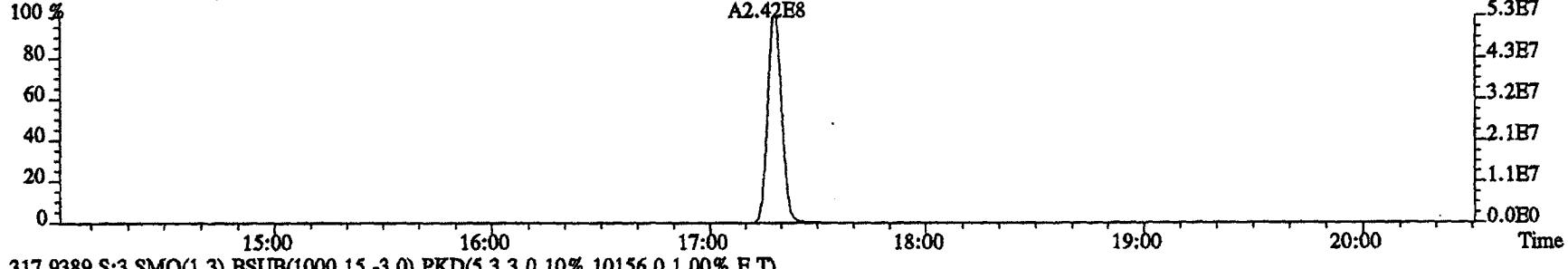
File:27JL101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3556.0,1.00%,F,T)



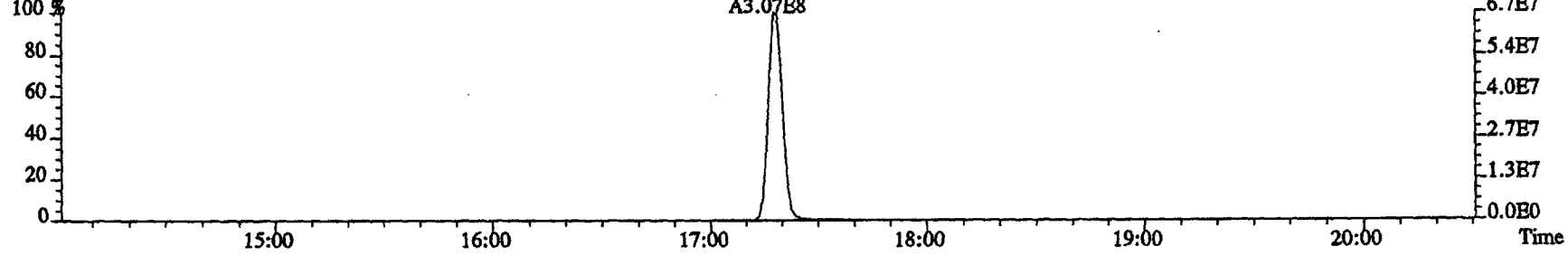
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704.0,1.00%,F,T)



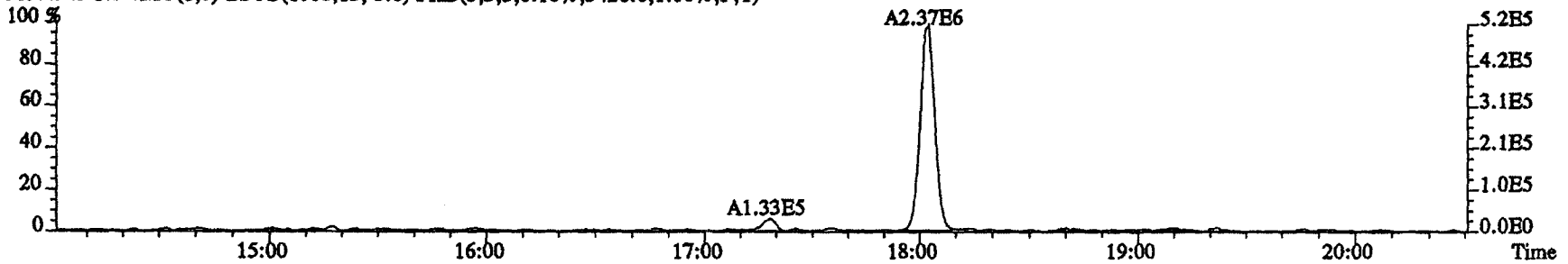
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7660.0,1.00%,F,T)



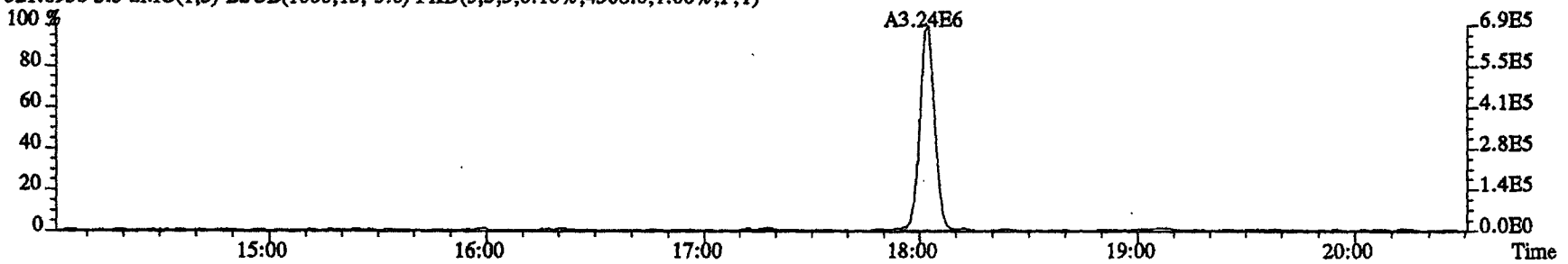
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10156.0,1.00%,F,T)



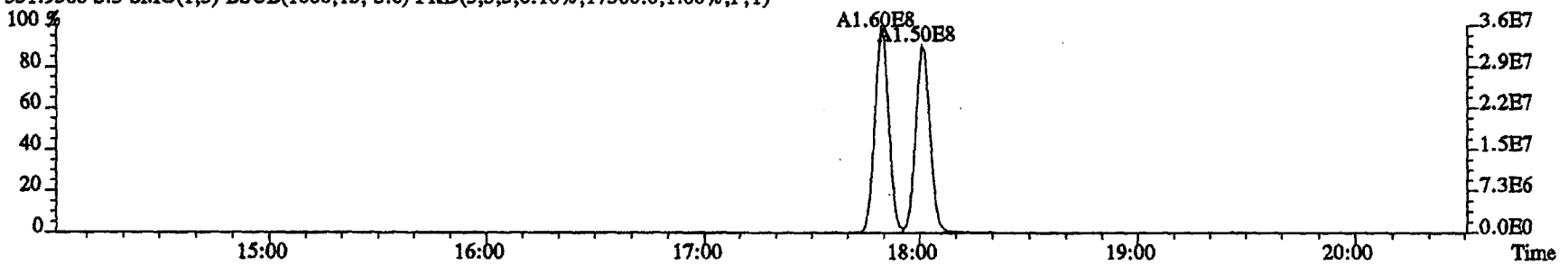
File:27JL101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3428.0,1.00%,F,T)



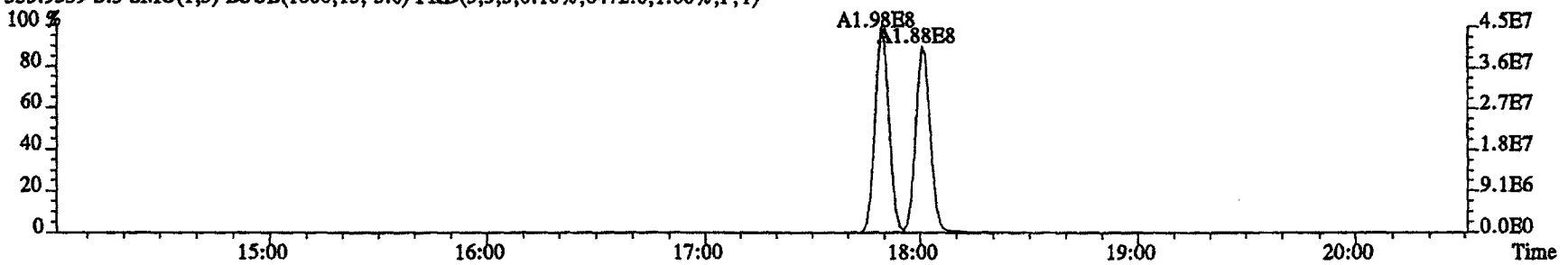
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4308.0,1.00%,F,T)



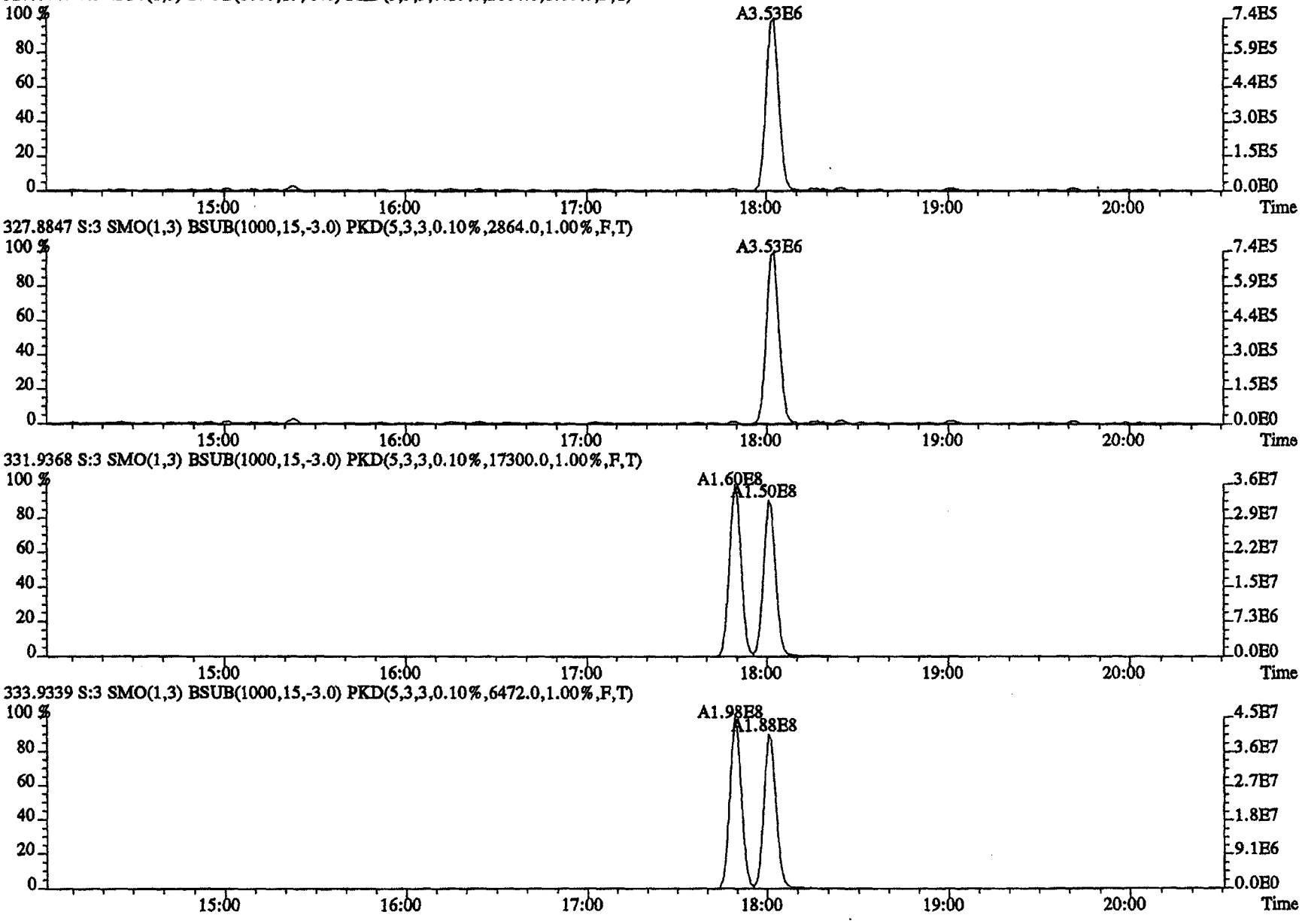
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17300.0,1.00%,F,T)



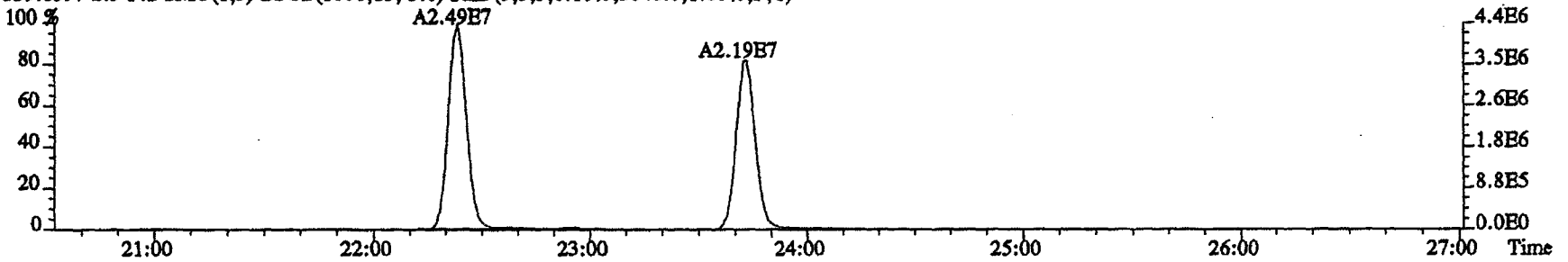
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6472.0,1.00%,F,T)



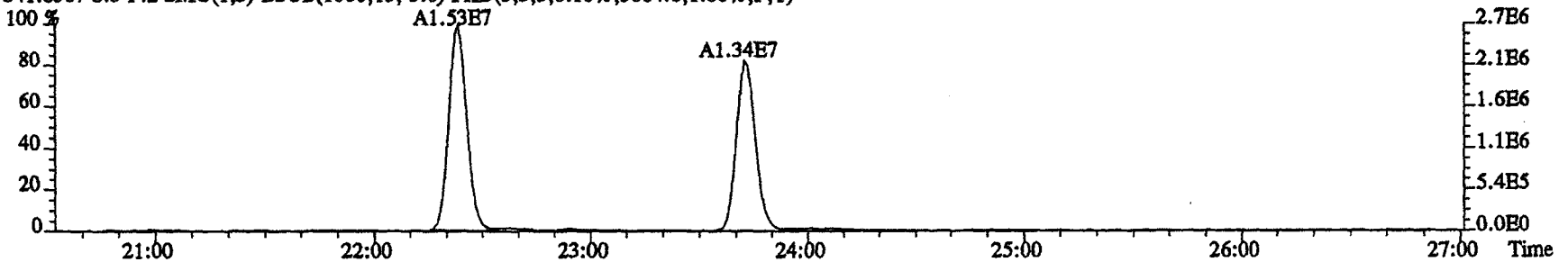
File:27JL101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES



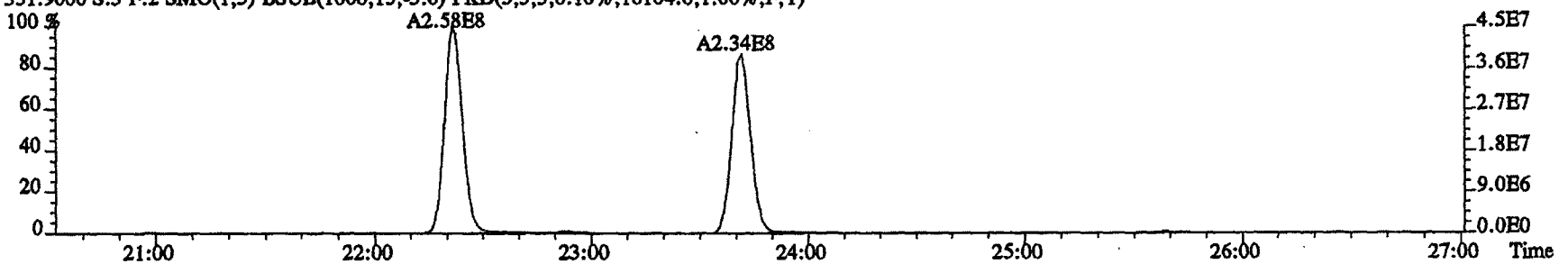
File:27JL101D5 #1-404 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3848.0,1.00%,F,T)



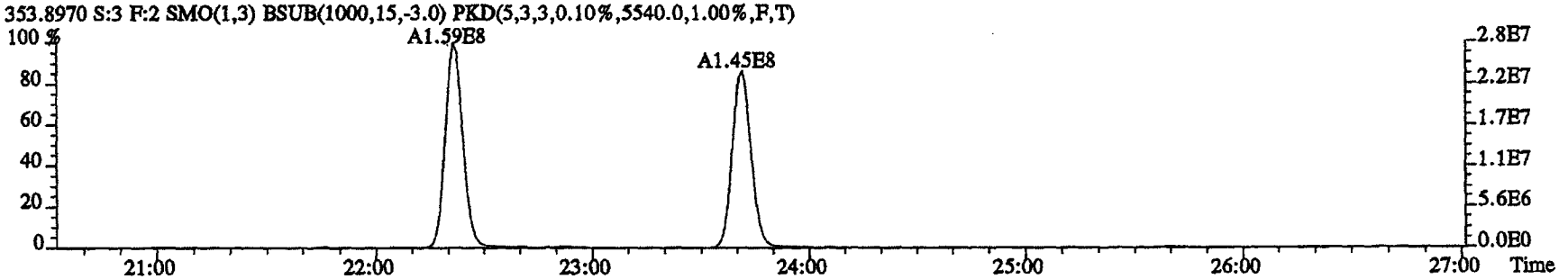
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5864.0,1.00%,F,T)



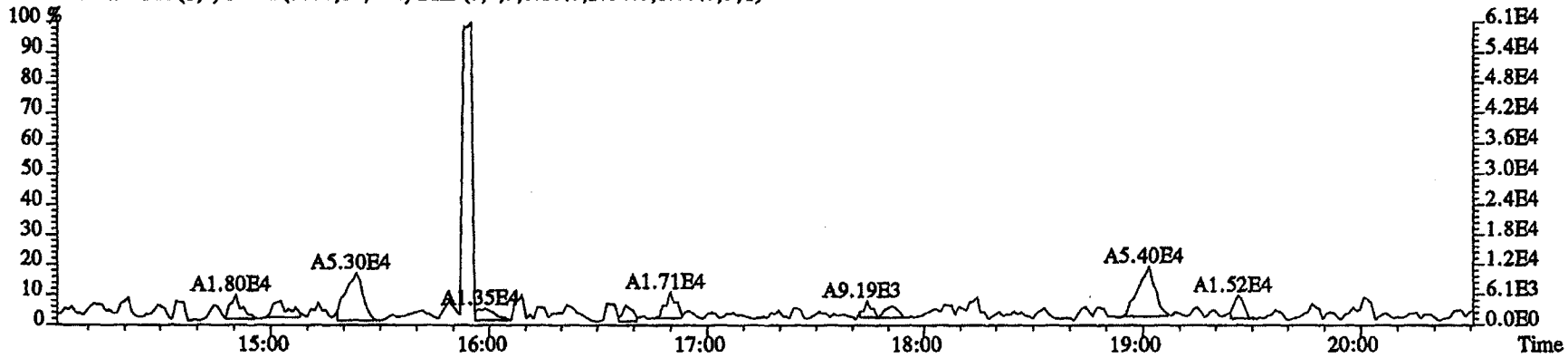
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16104.0,1.00%,F,T)



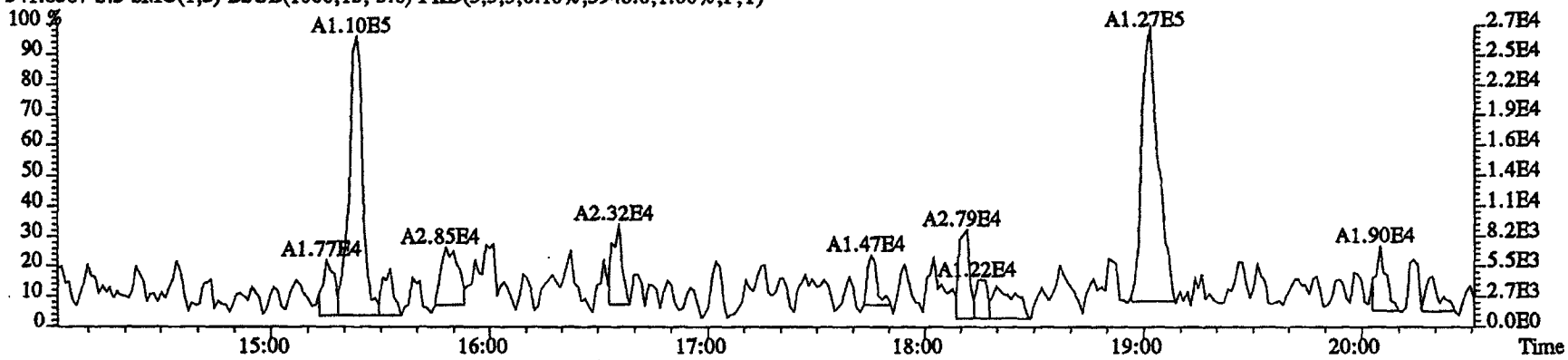
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5540.0,1.00%,F,T)



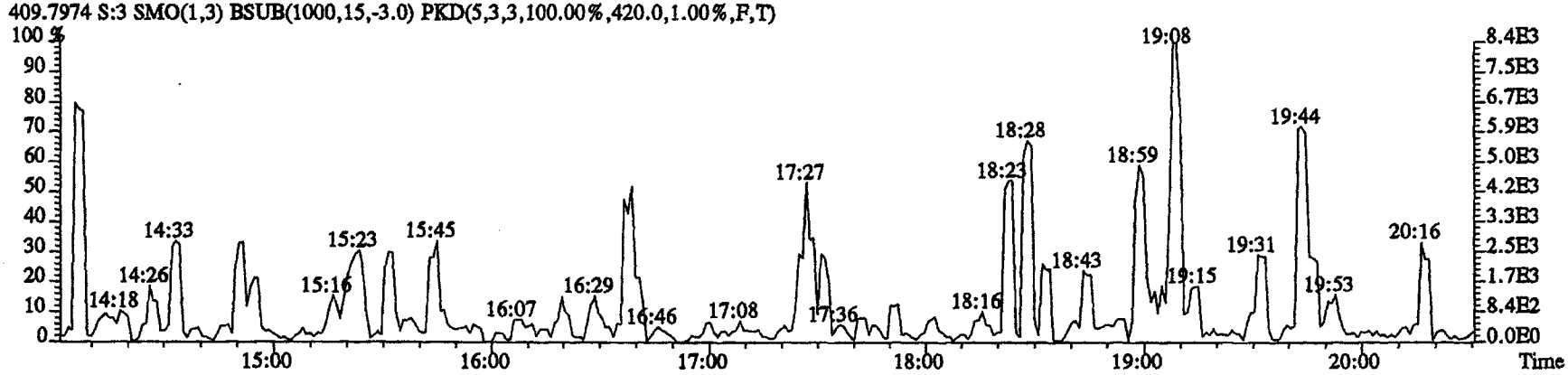
File:27JL101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)



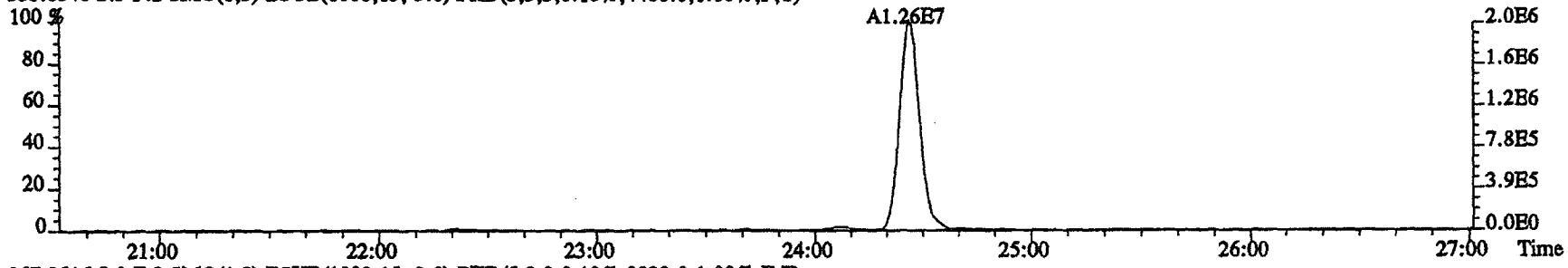
341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3948.0,1.00%,F,T)



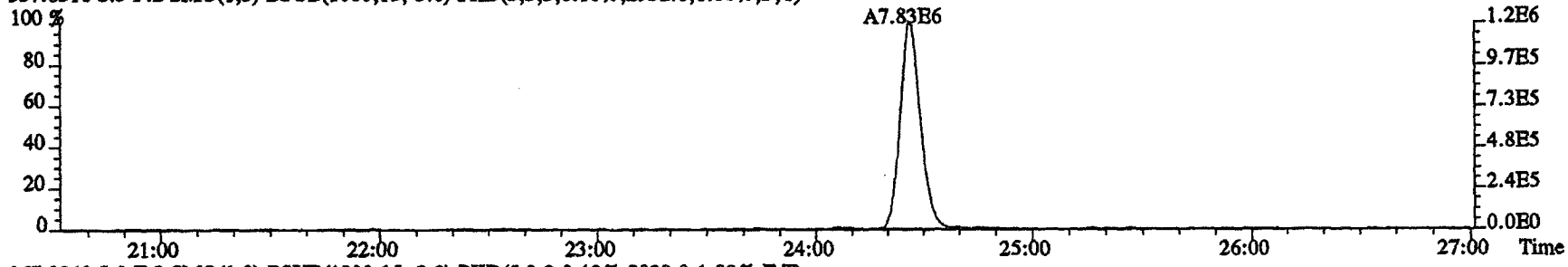
409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,420.0,1.00%,F,T)



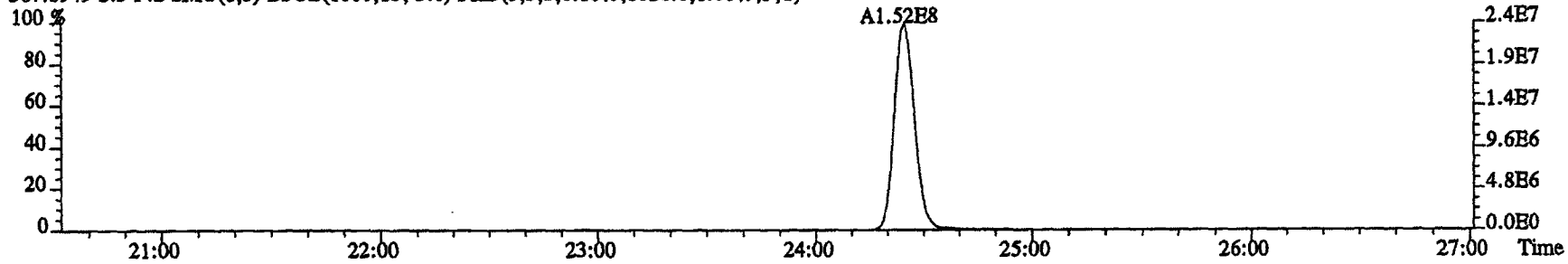
File:27JL101D5 #1-404 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4480.0,1.00%,F,T)



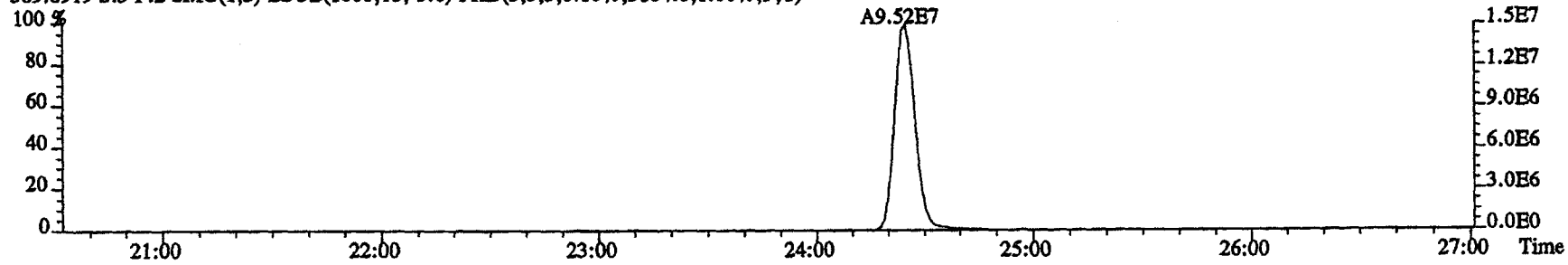
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)



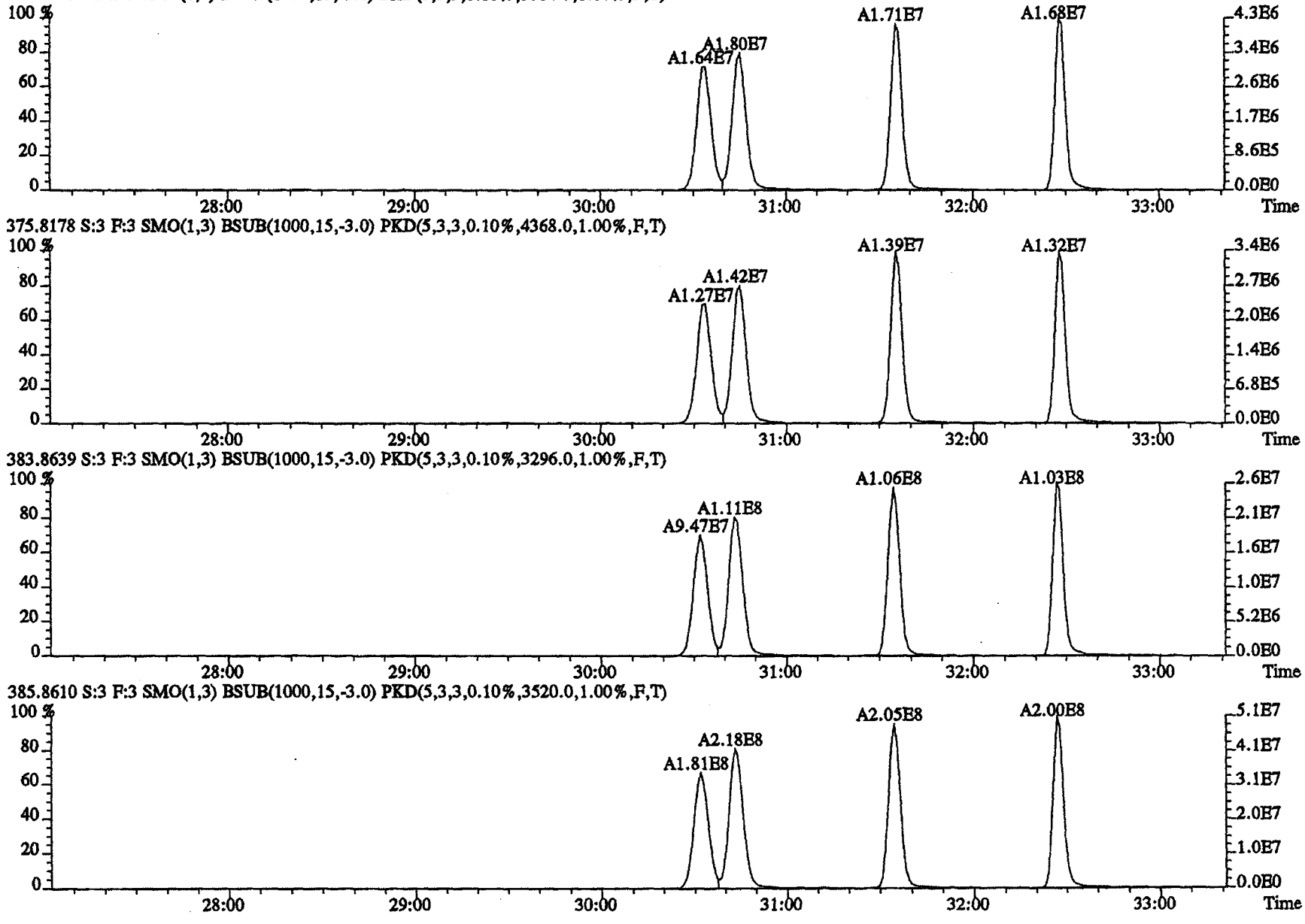
367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8828.0,1.00%,F,T)



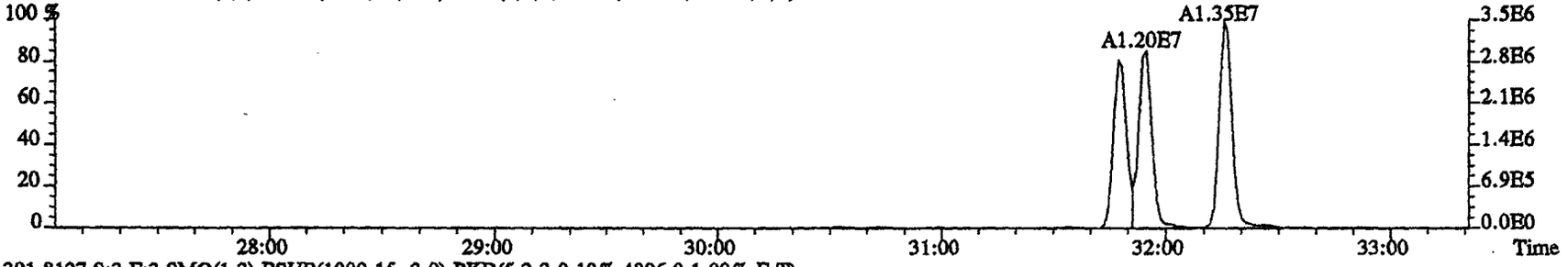
369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3184.0,1.00%,F,T)



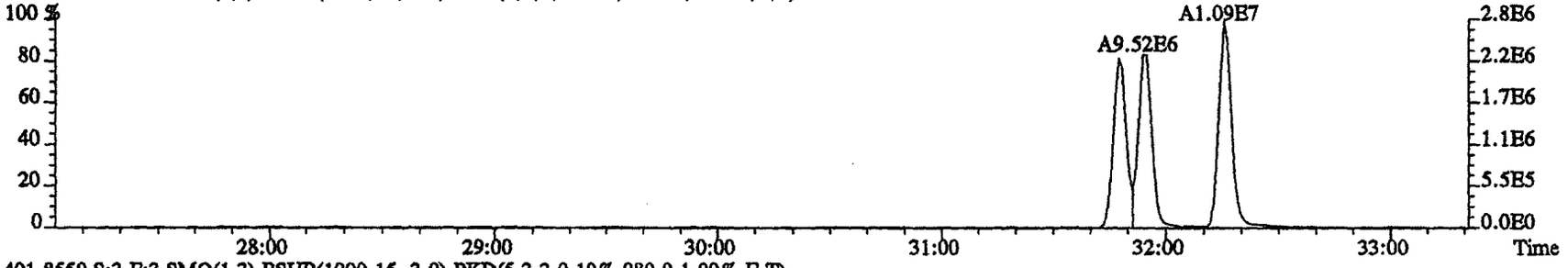
File:27JL101D5 #1-406 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES



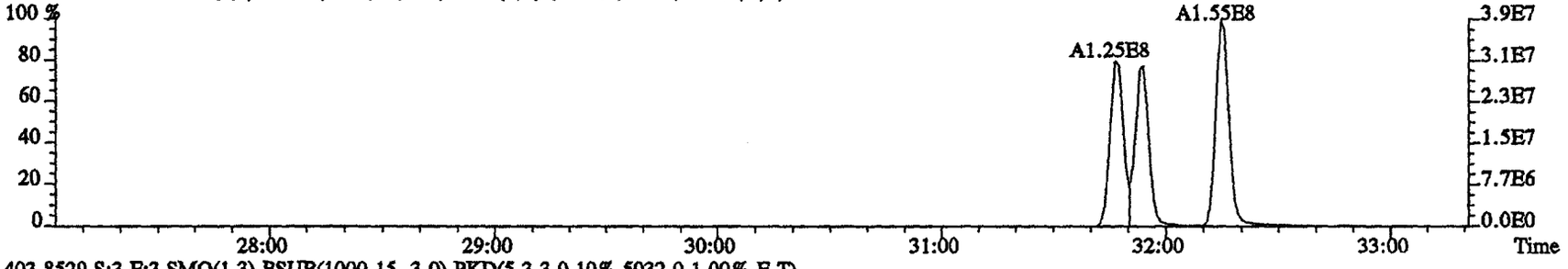
File:27JL101D5 #1-406 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3392.0,1.00%,F,T)



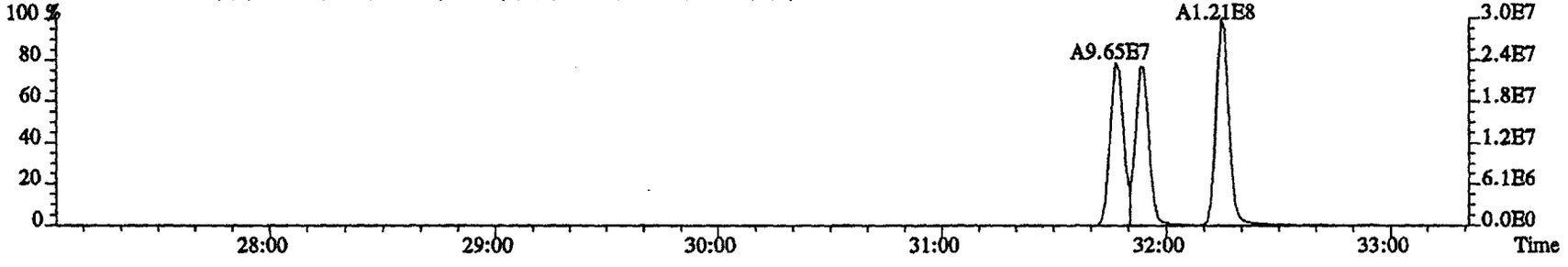
391.8127 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4896.0,1.00%,F,T)



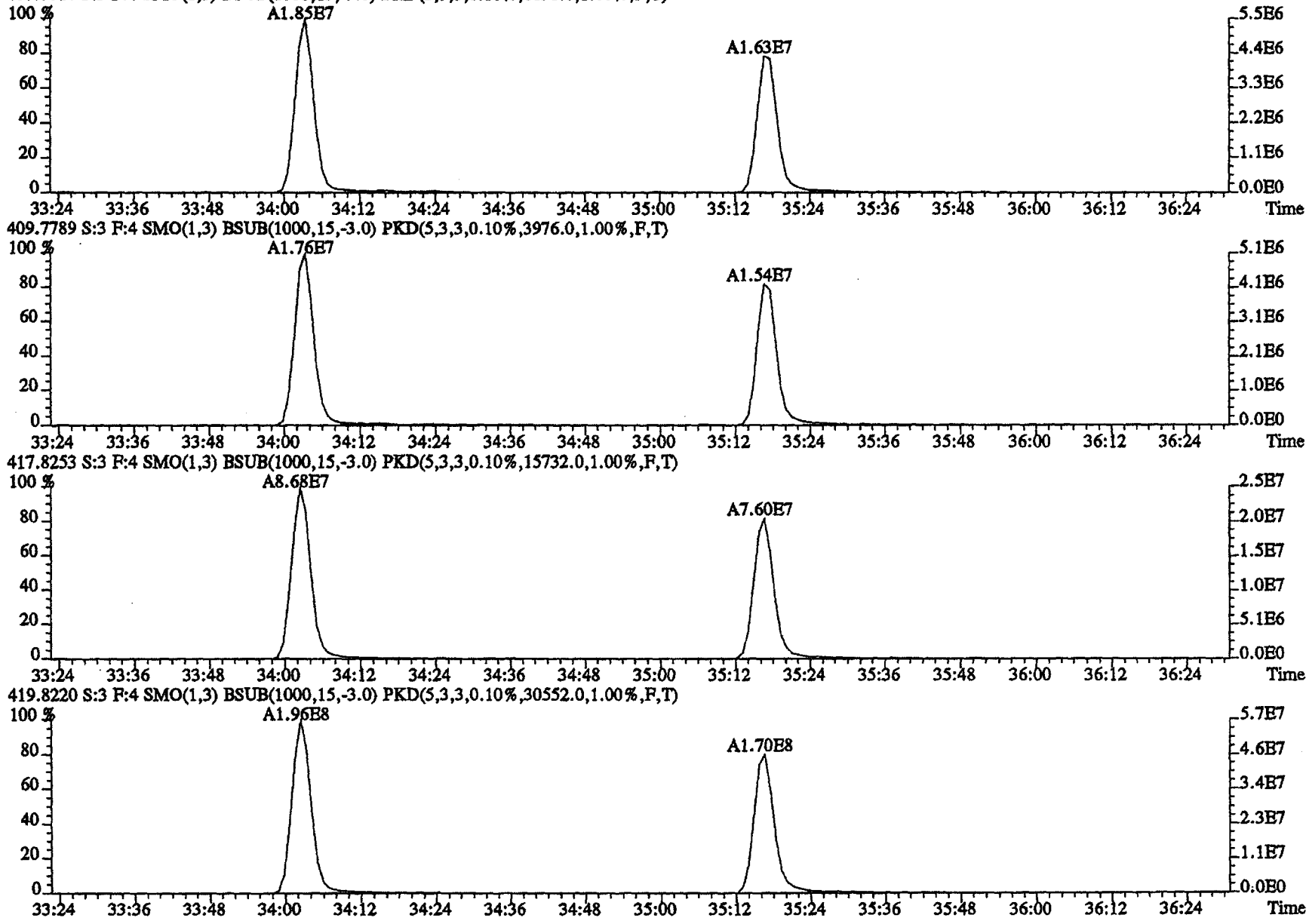
401.8559 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,980.0,1.00%,F,T)



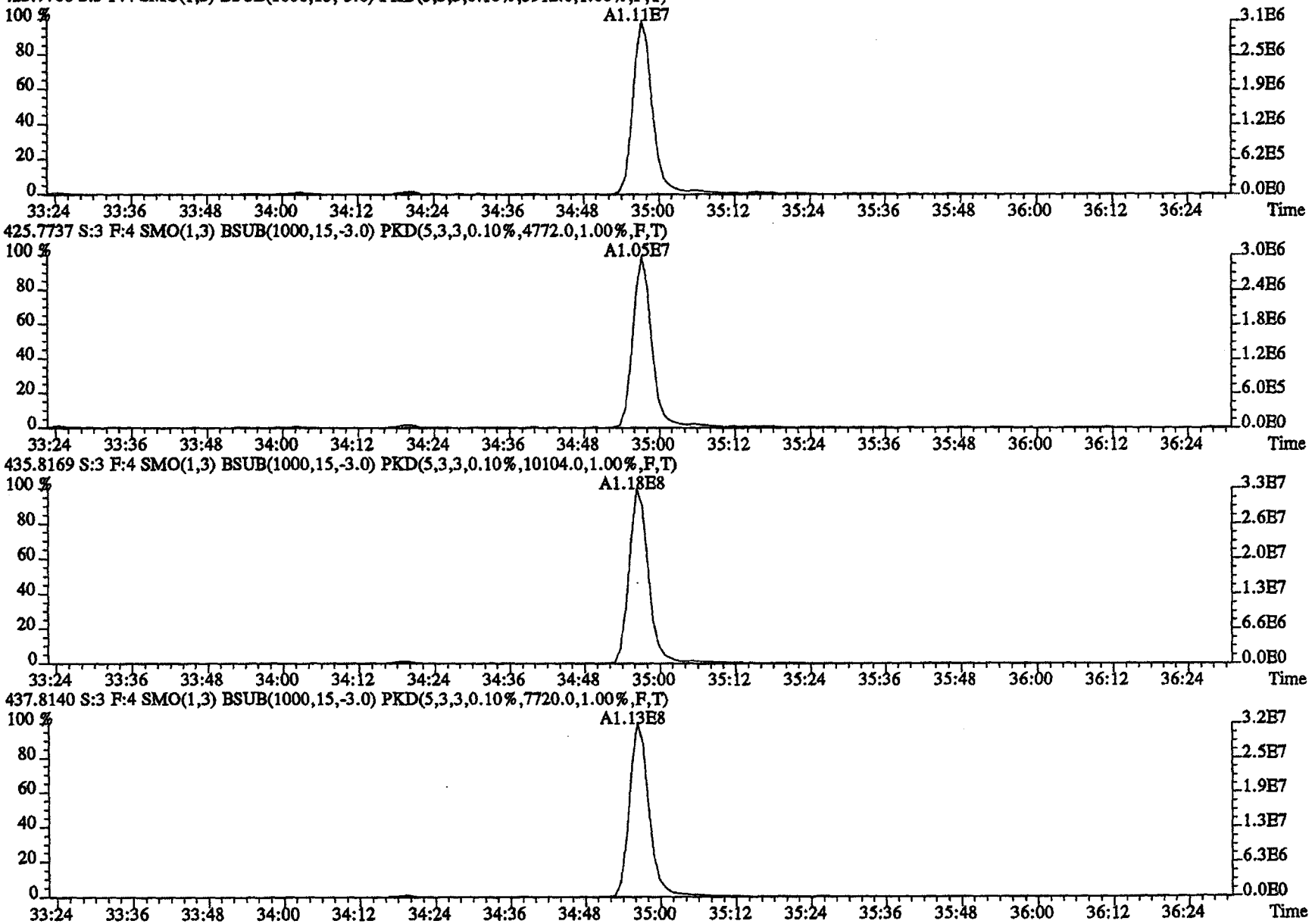
403.8529 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5032.0,1.00%,F,T)



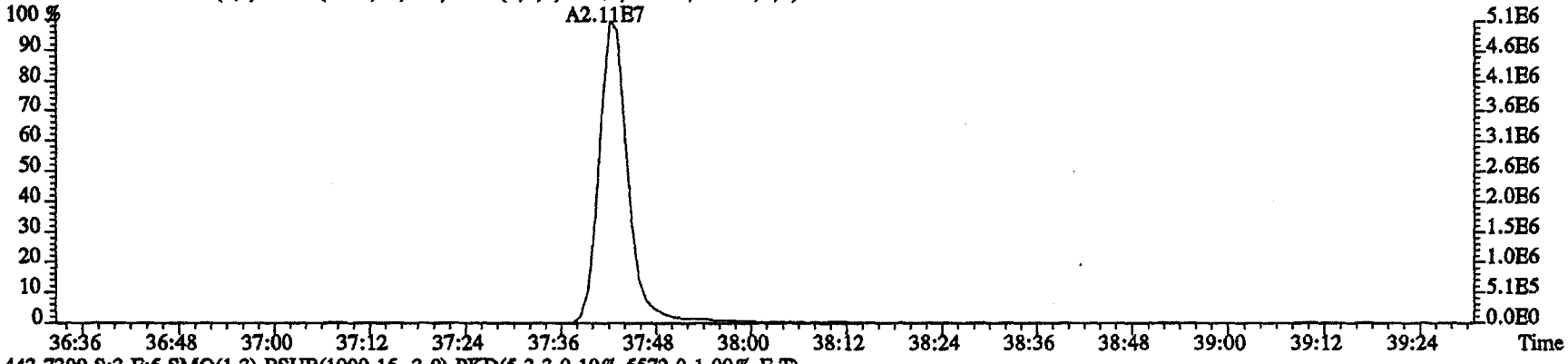
File:27JL101D5 #1-214 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES



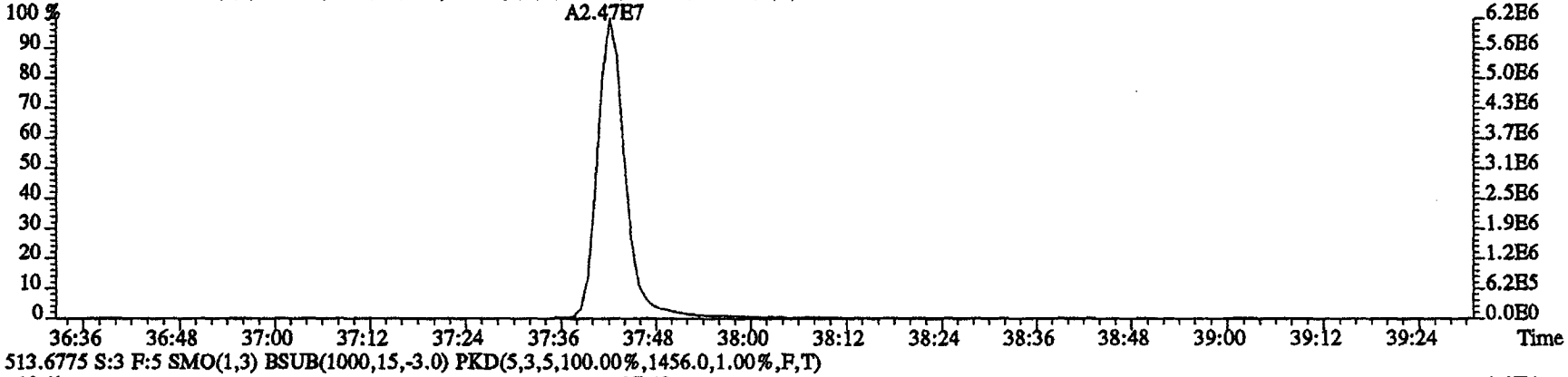
File:27JL101D5 #1-214 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES



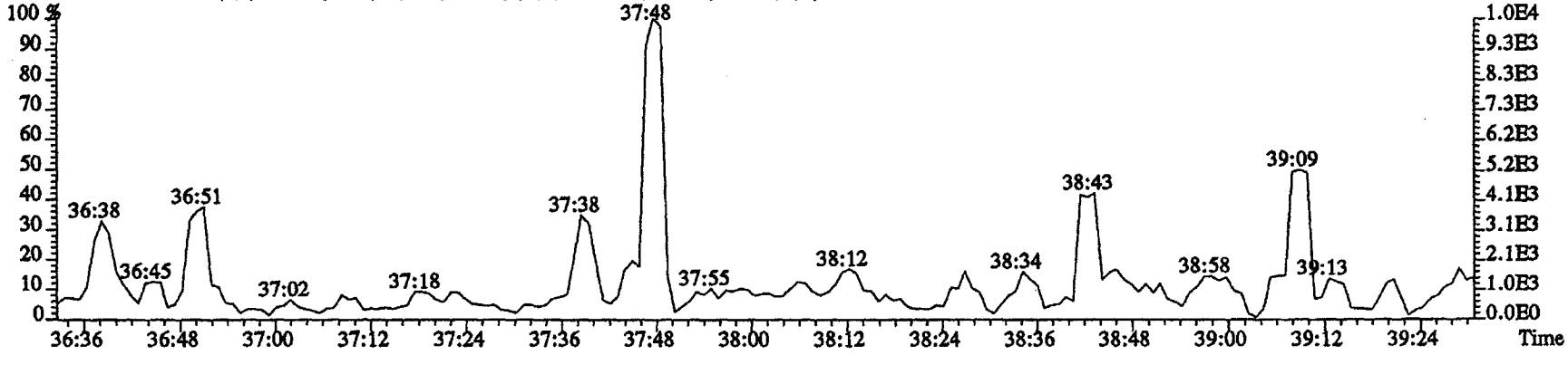
File:27JL101D5 #1-196 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)



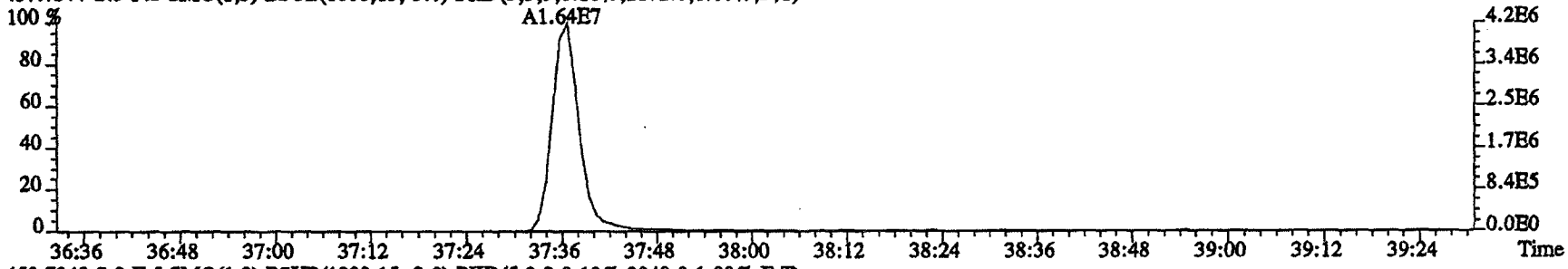
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5572.0,1.00%,F,T)



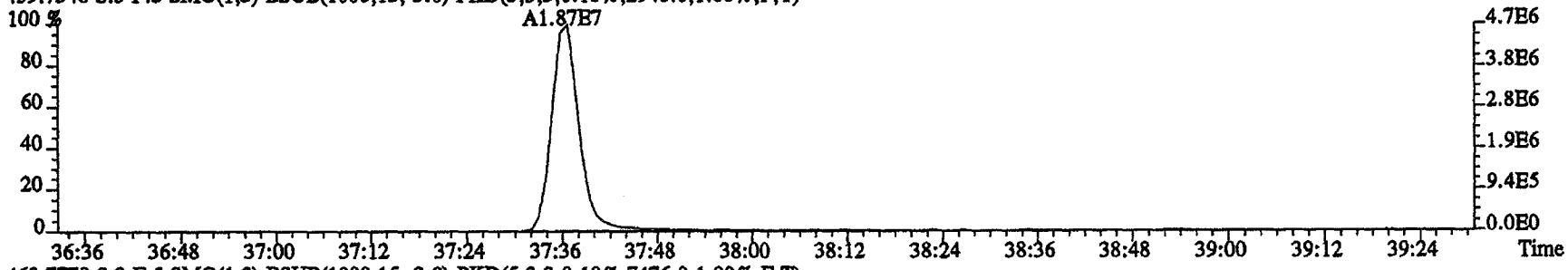
513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1456.0,1.00%,F,T)



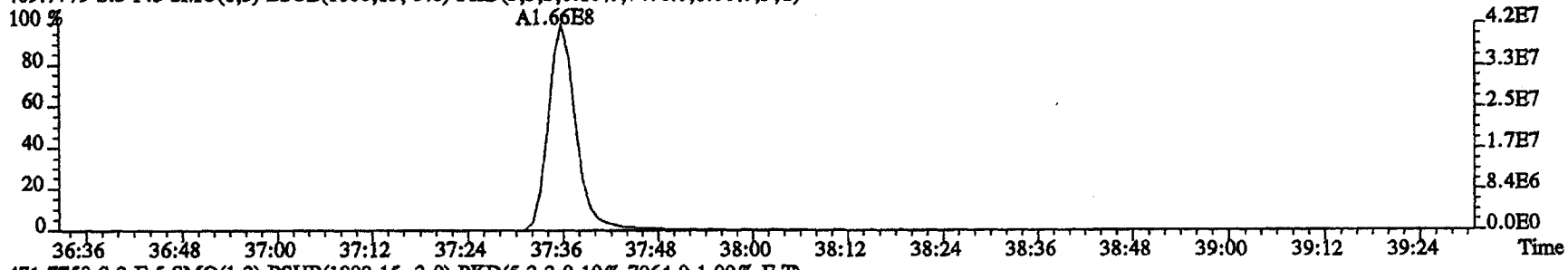
File:27JL101D5 #1-196 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2172.0,1.00%,F,T)



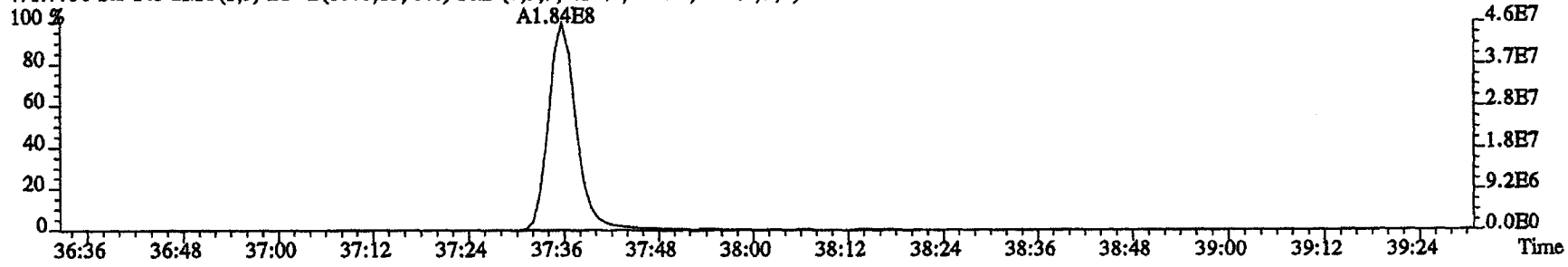
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2940.0,1.00%,F,T)



469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7476.0,1.00%,F,T)

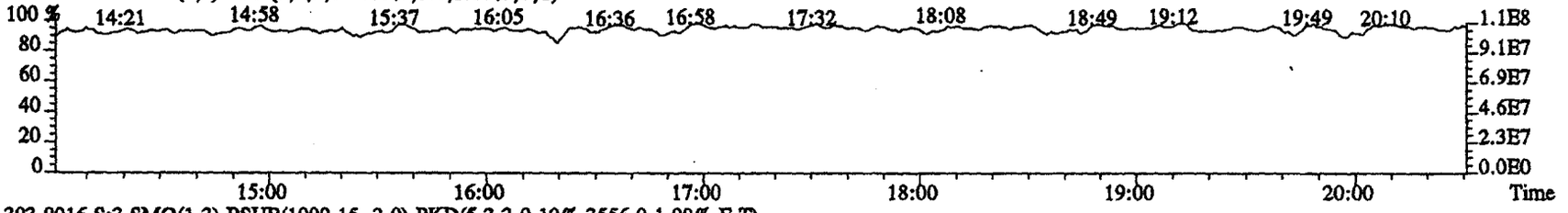


471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7064.0,1.00%,F,T)

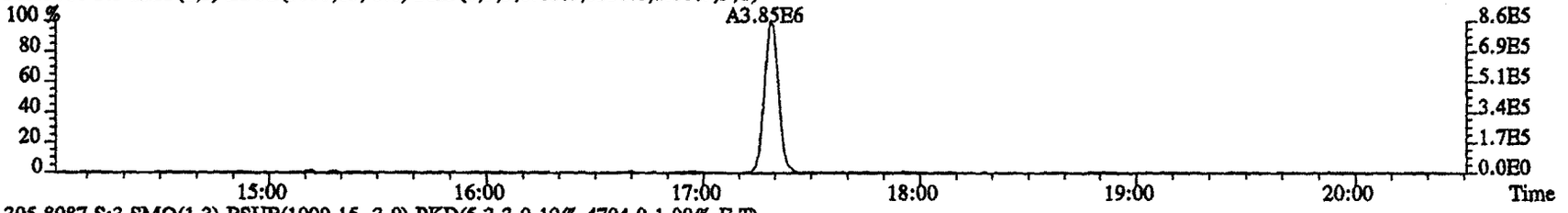


File:27JL101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES

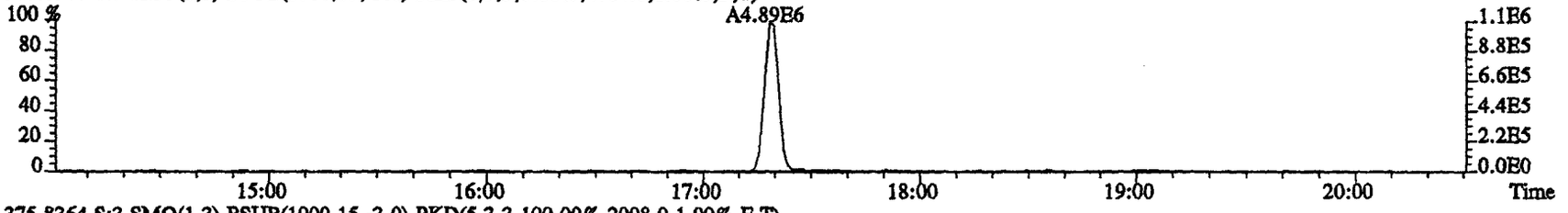
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



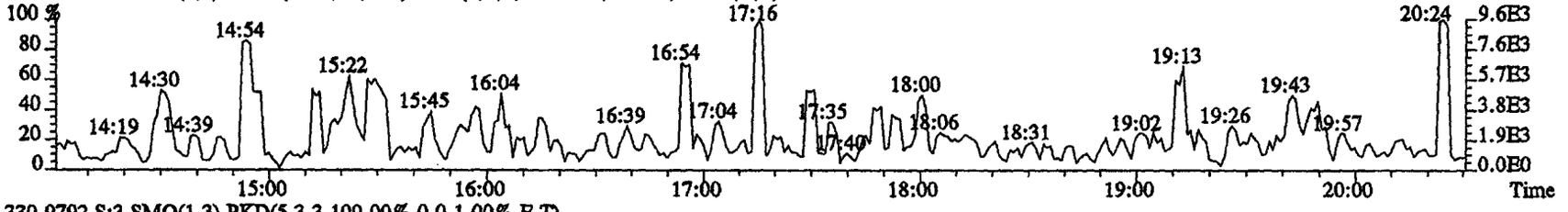
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3556.0,1.00%,F,T)



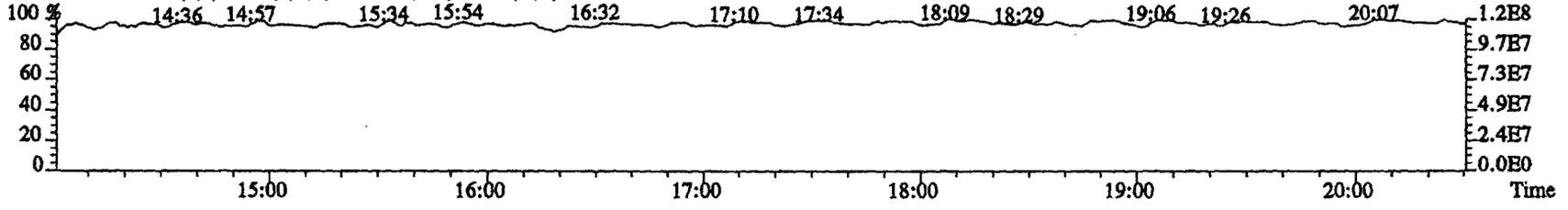
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704.0,1.00%,F,T)



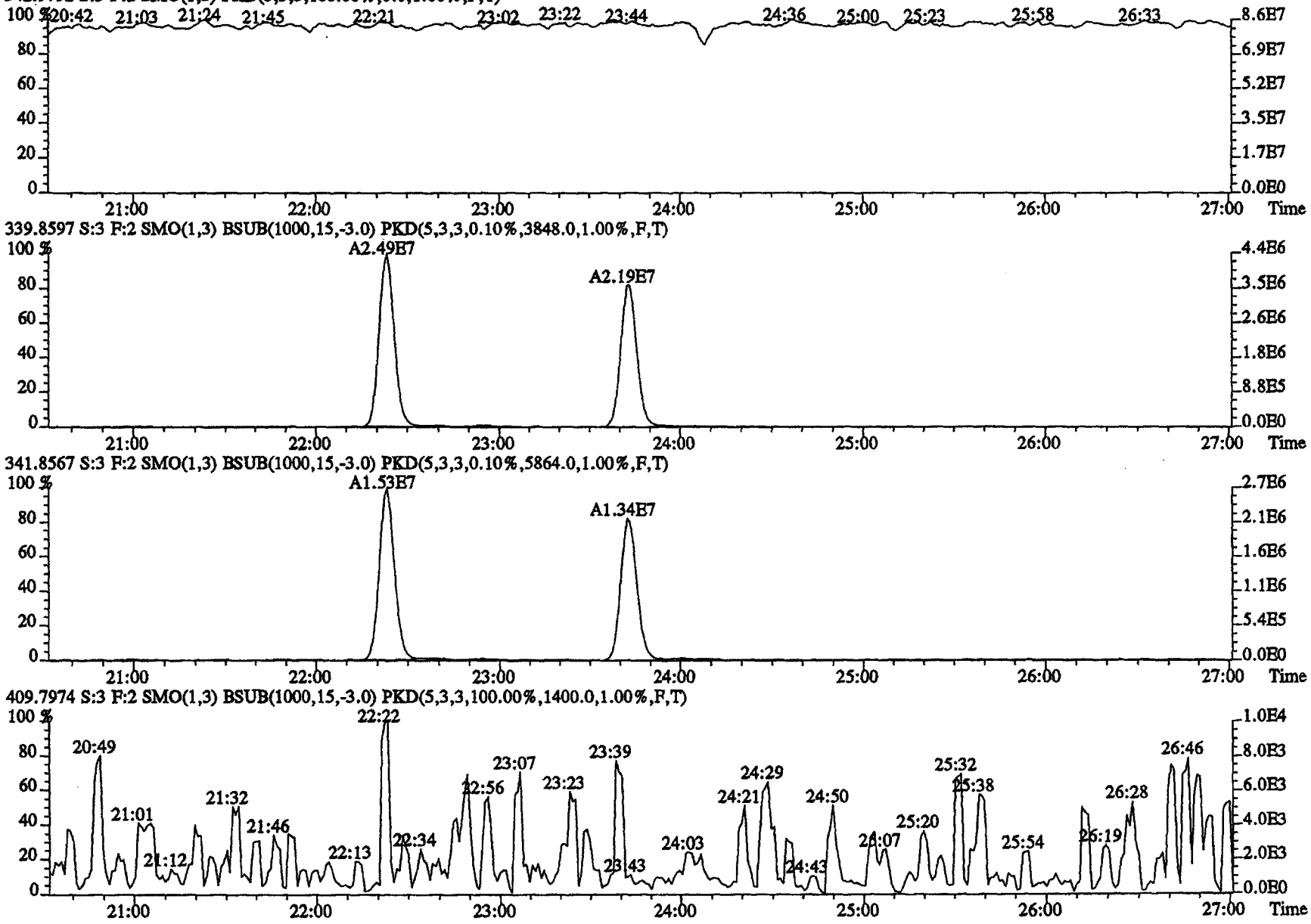
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2008.0,1.00%,F,T)



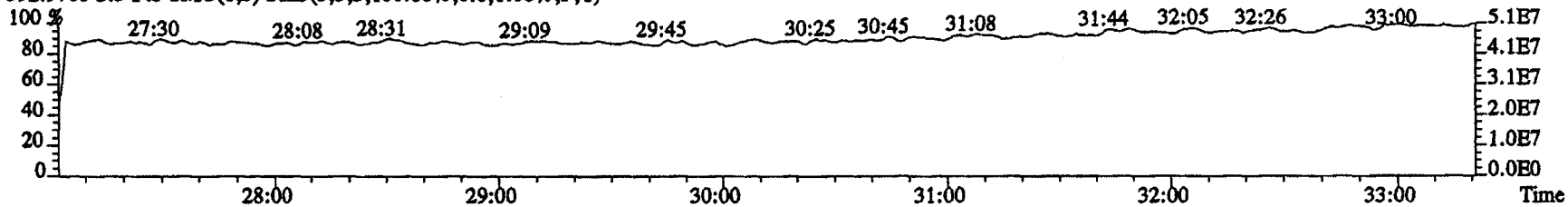
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



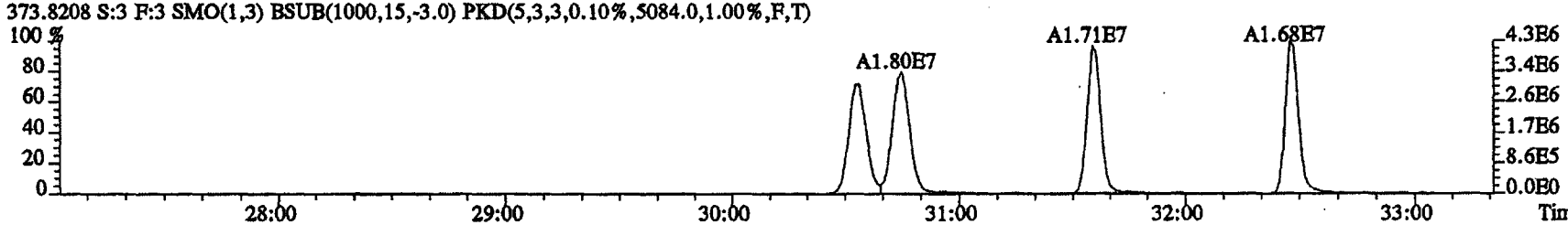
File:27JL101D5 #1-404 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES



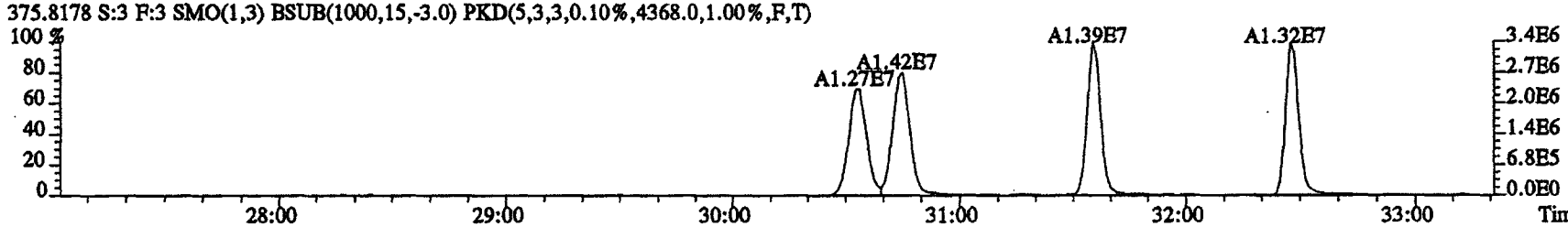
File:27JL101D5 #1-406 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



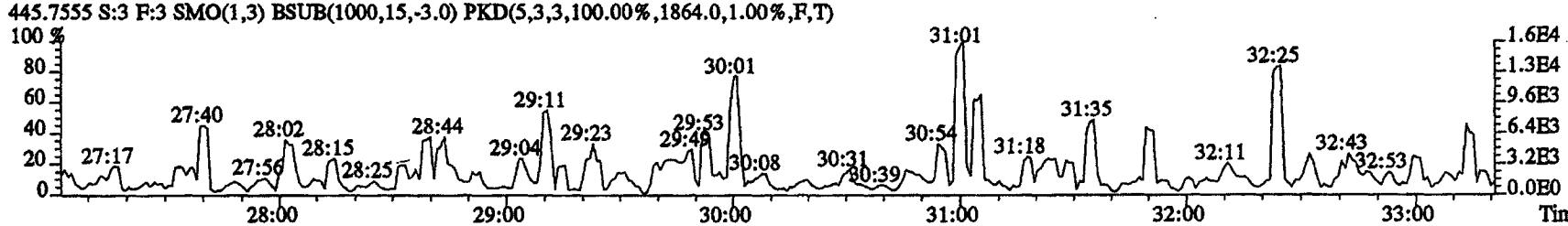
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5084.0,1.00%,F,T)



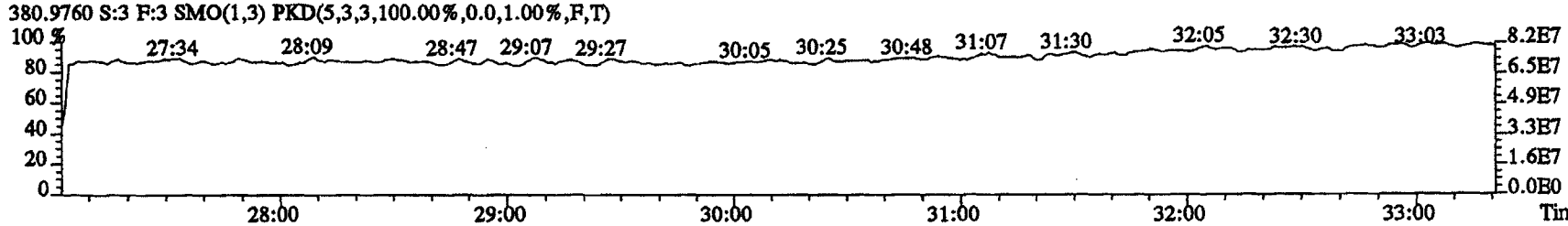
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4368.0,1.00%,F,T)

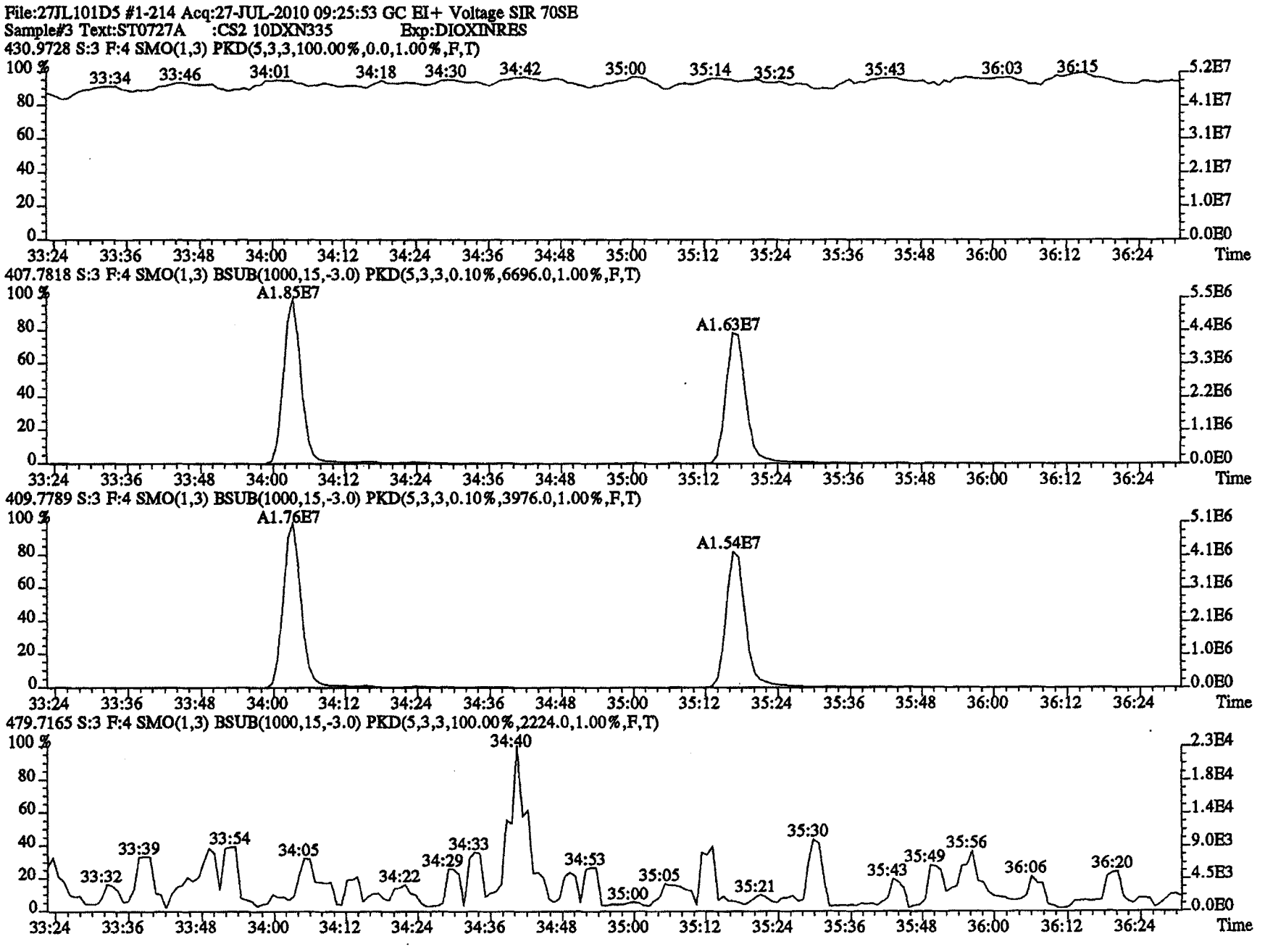


445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1864.0,1.00%,F,T)

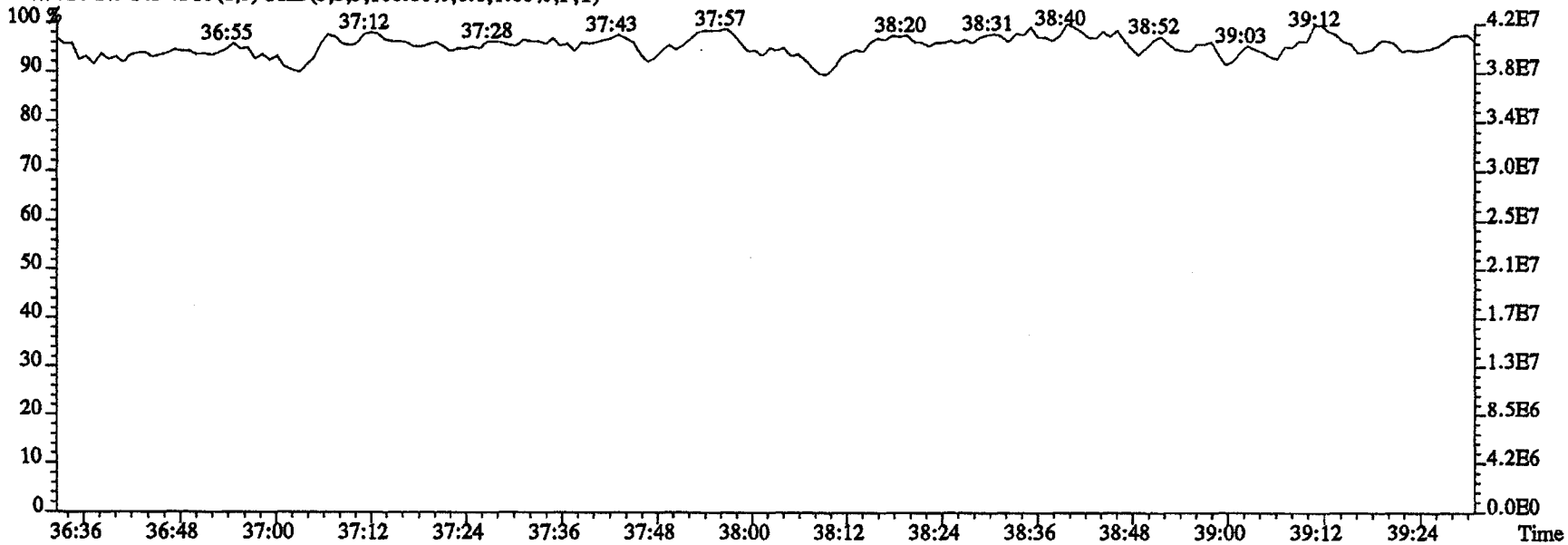


380.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

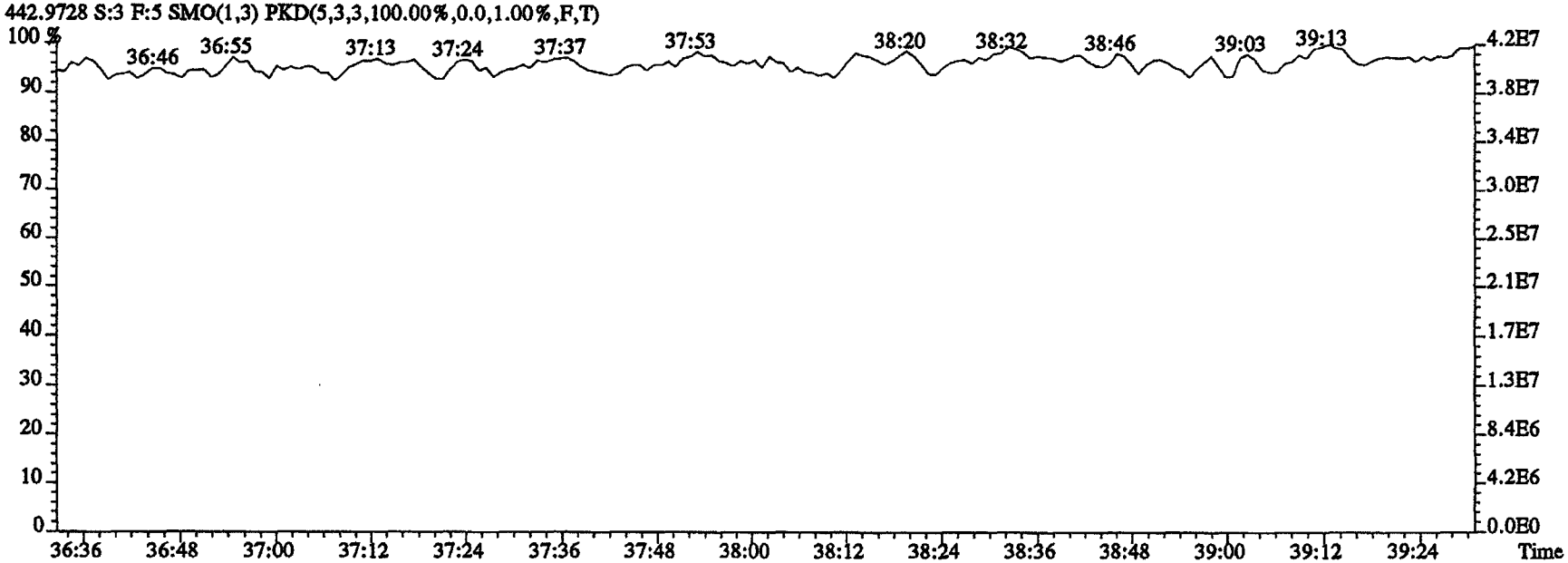




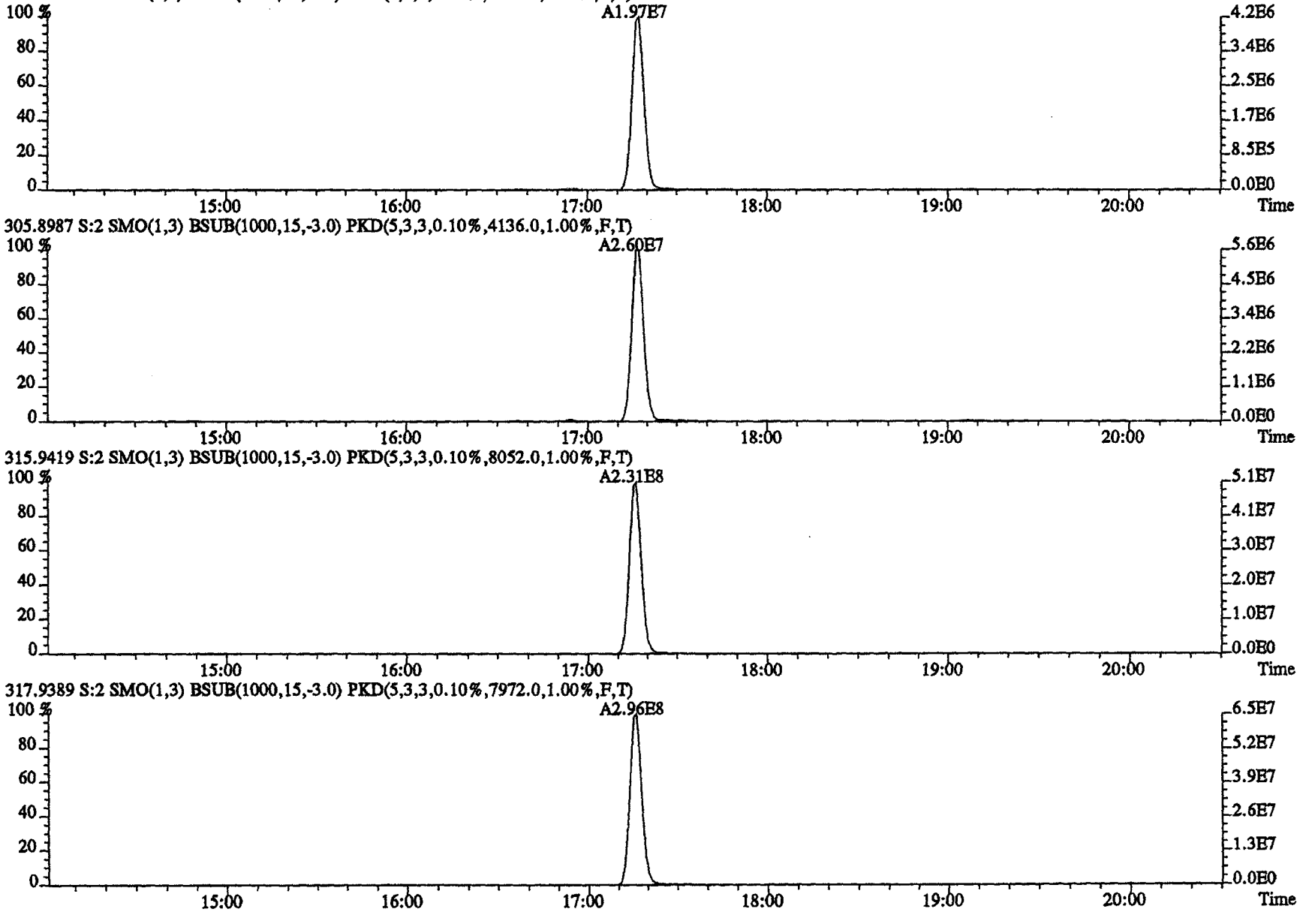
File:27JL101D5 #1-196 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

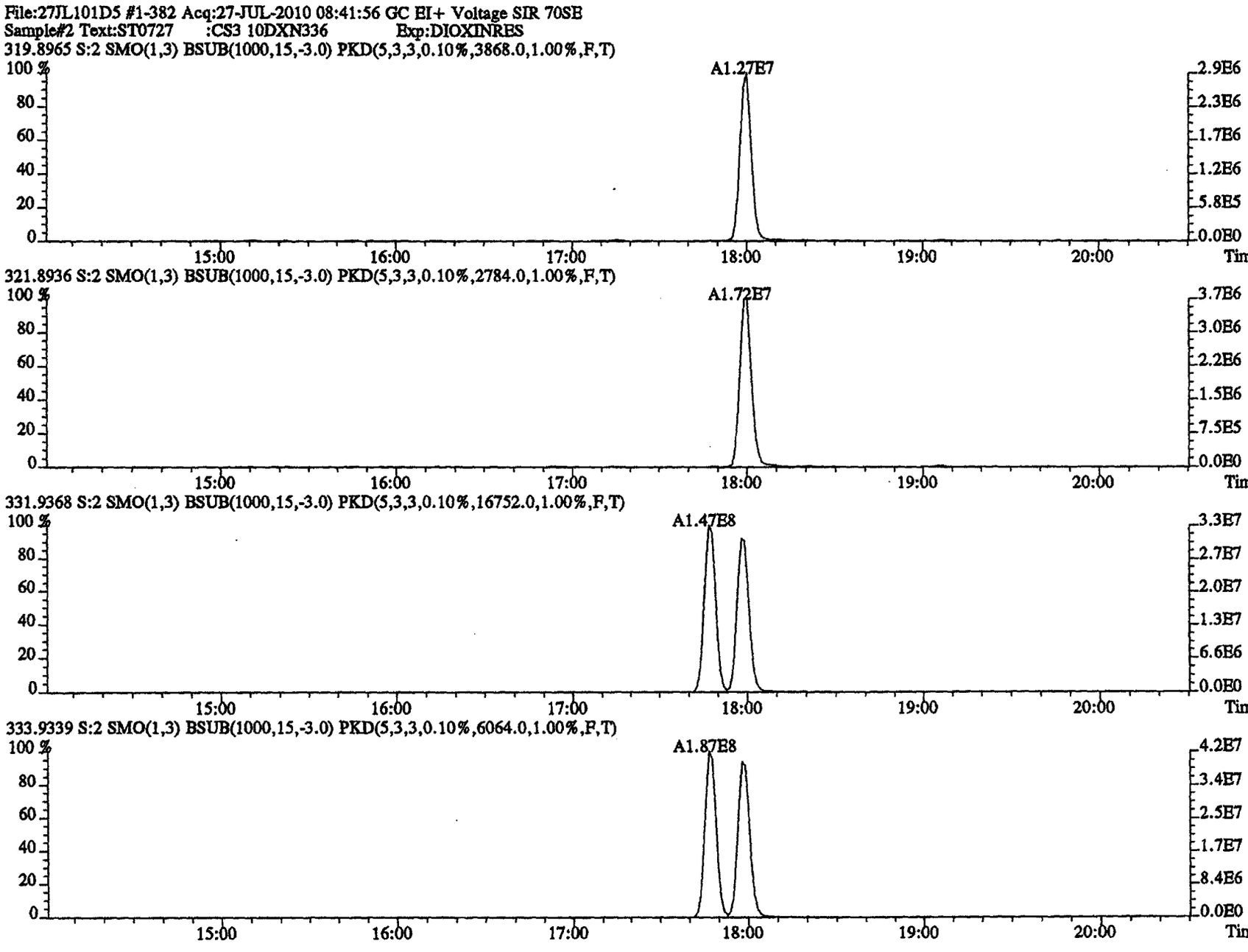


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

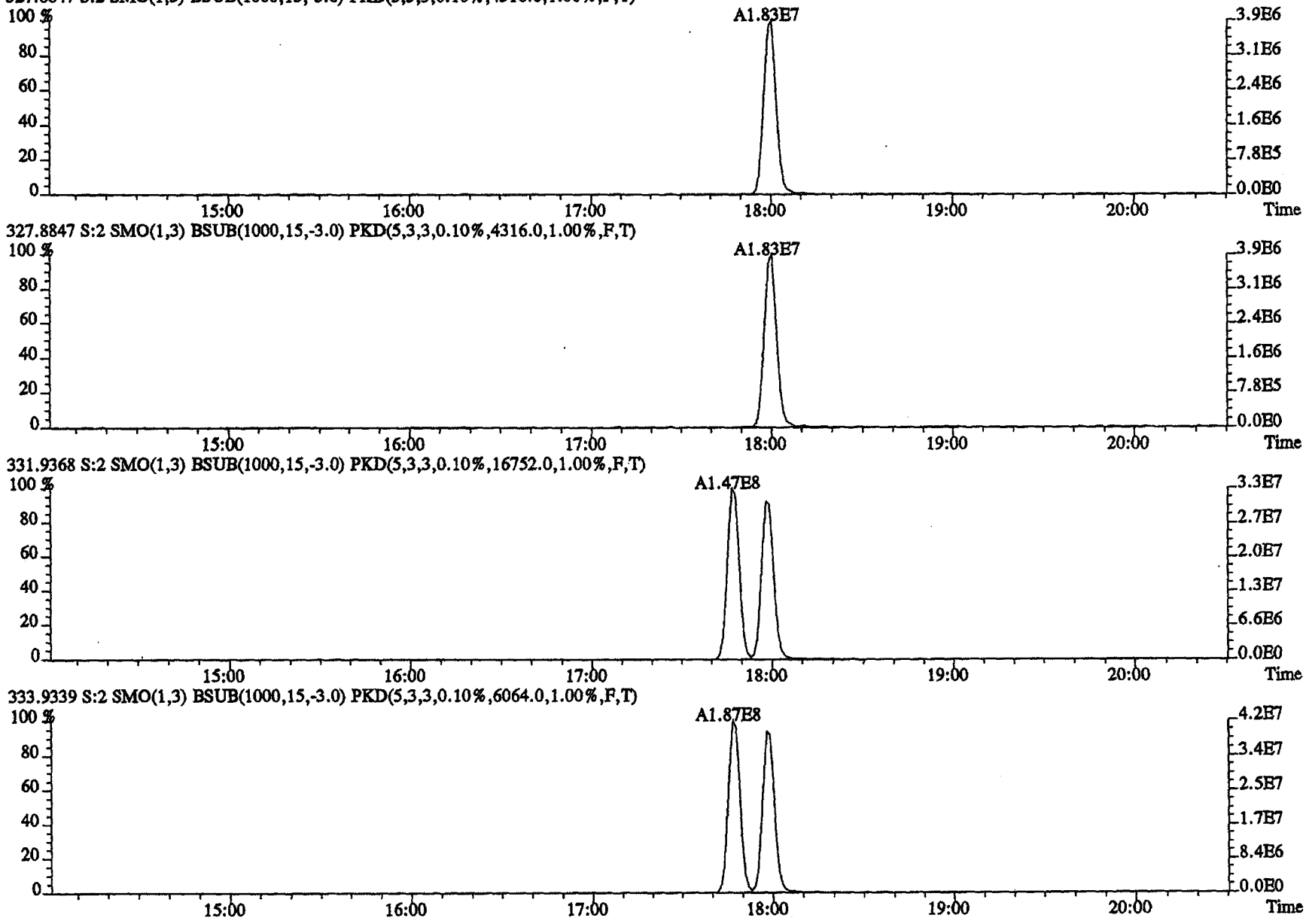


File:27JL101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

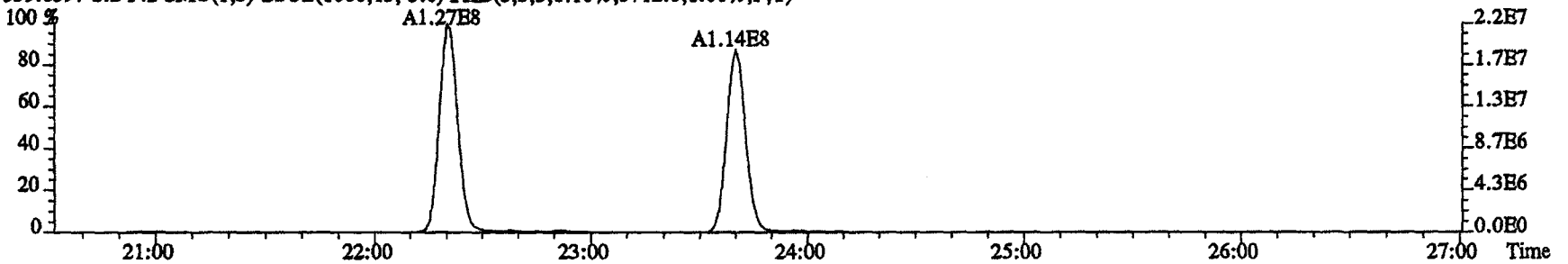




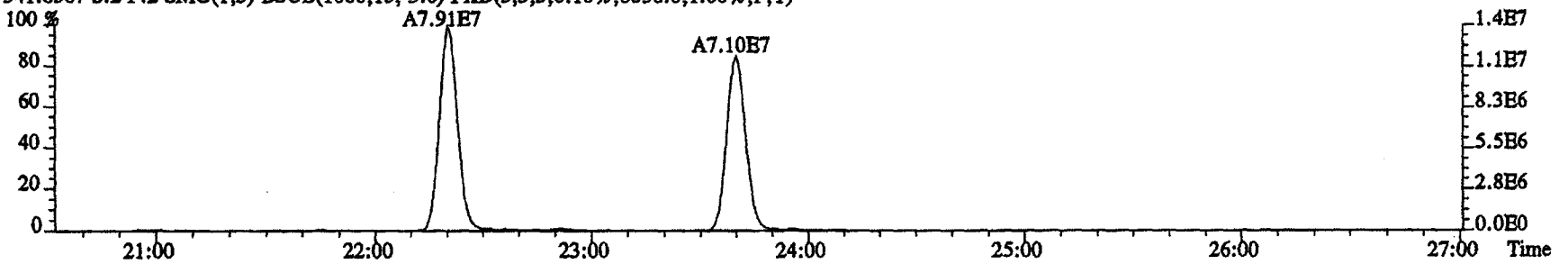
File:27JL101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES



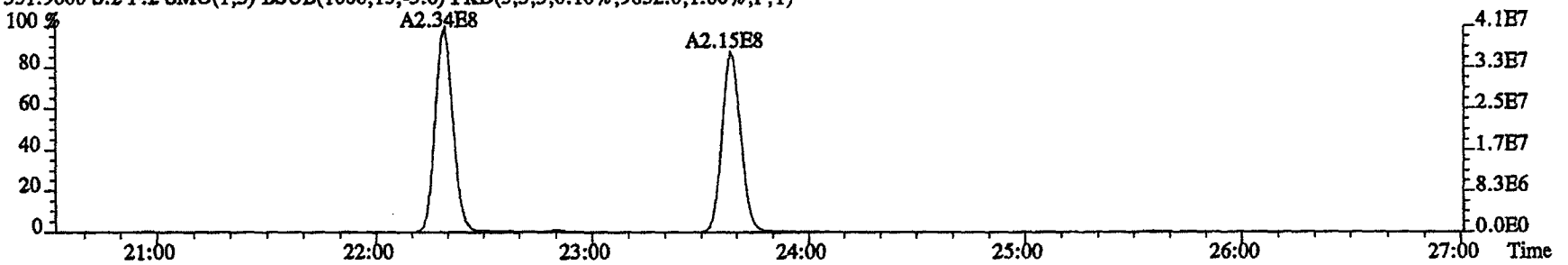
File:27JL101D5 #1-404 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5712.0,1.00%,F,T)



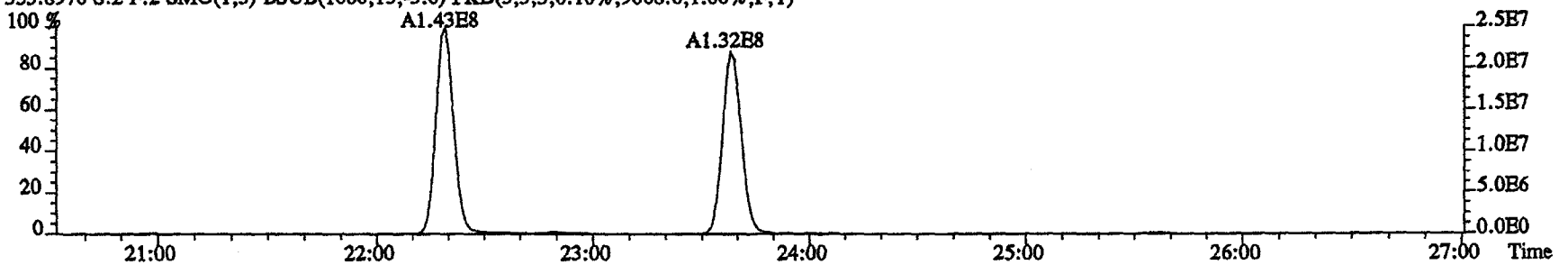
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8056.0,1.00%,F,T)



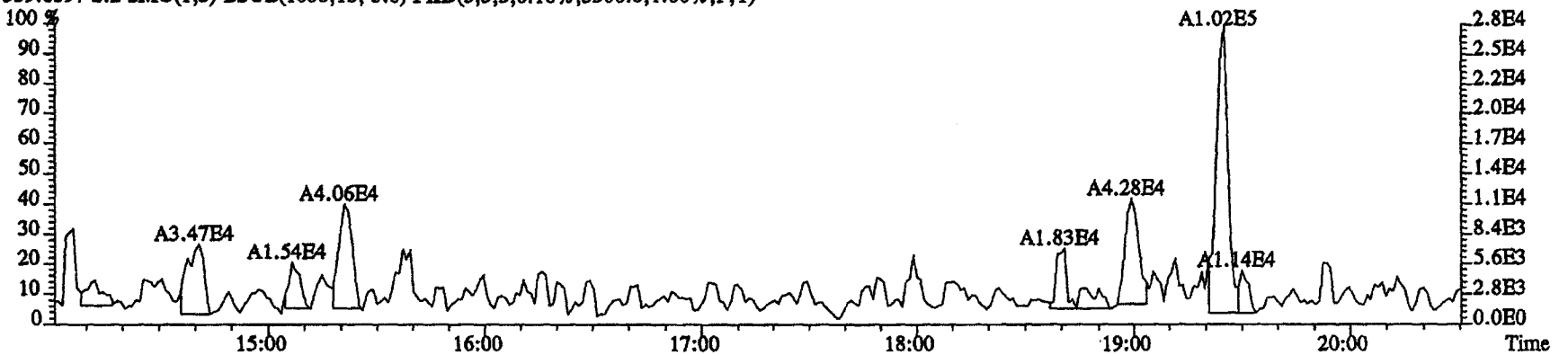
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9652.0,1.00%,F,T)



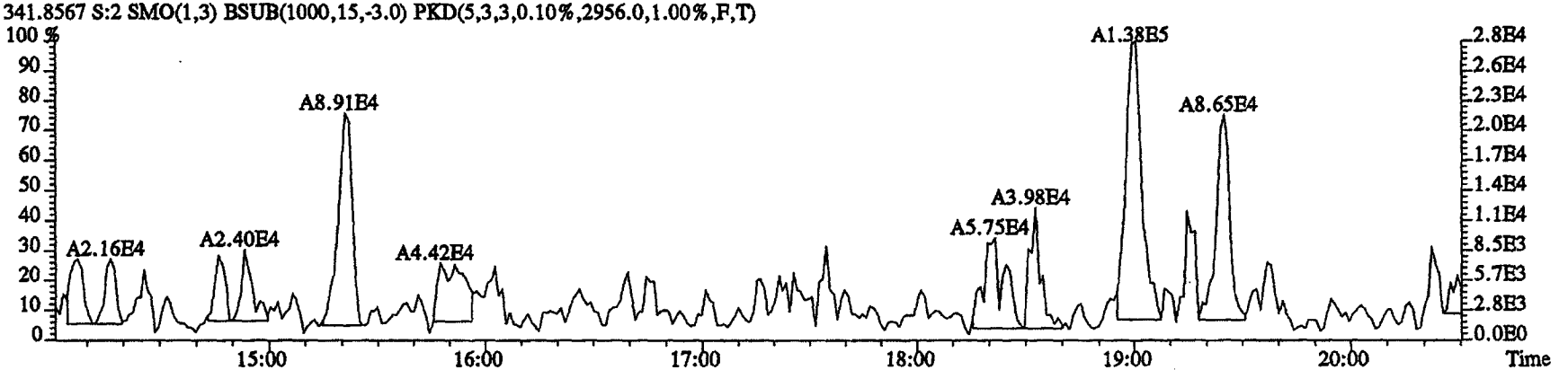
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9068.0,1.00%,F,T)



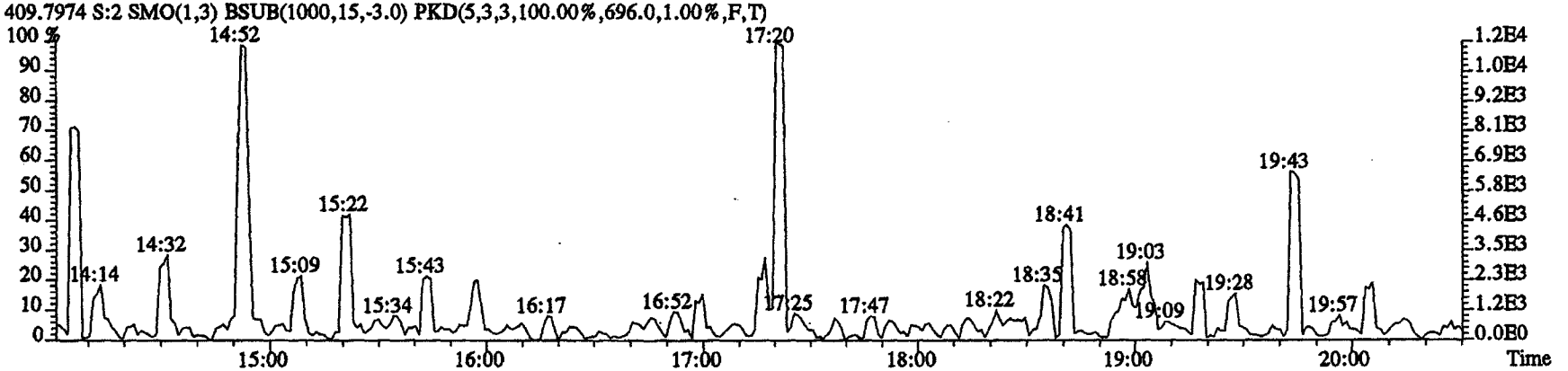
File:27JL101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3300.0,1.00%,F,T)



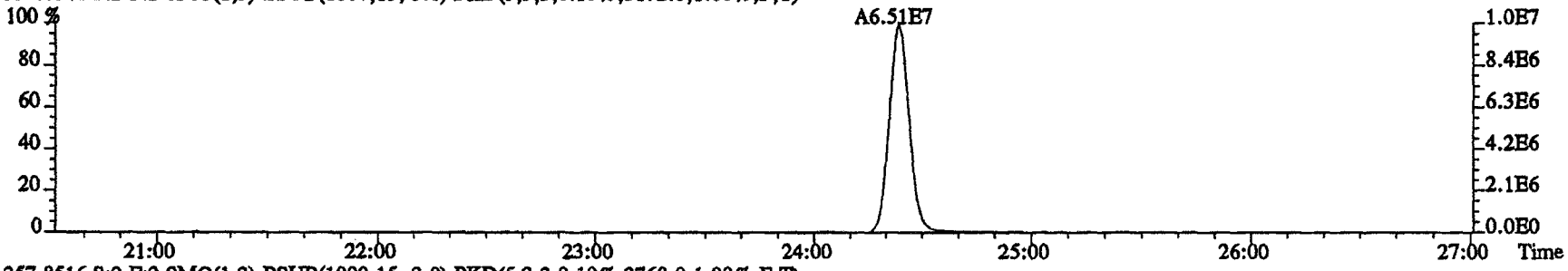
341.8567 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2956.0,1.00%,F,T)



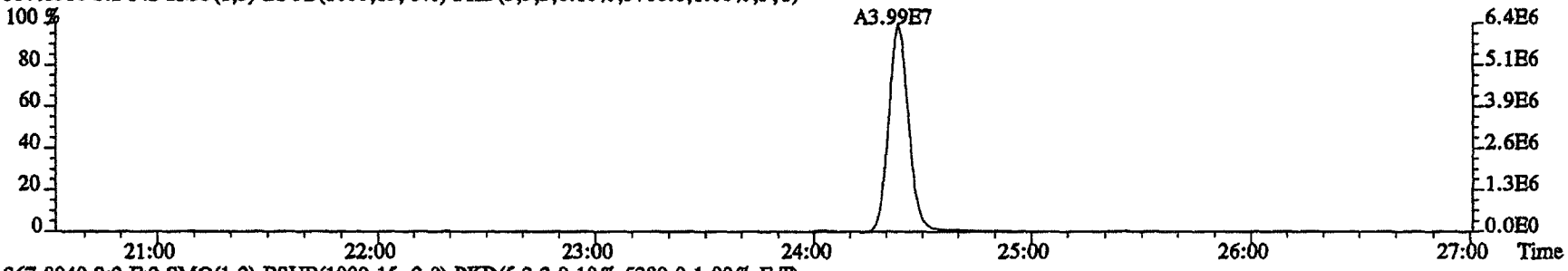
409.7974 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,696.0,1.00%,F,T)



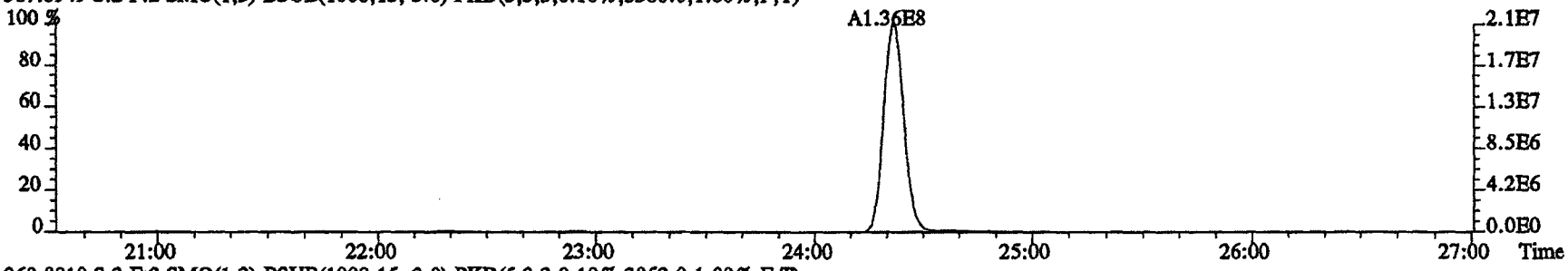
File:27JL101D5 #1-404 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5172.0,1.00%,F,T)



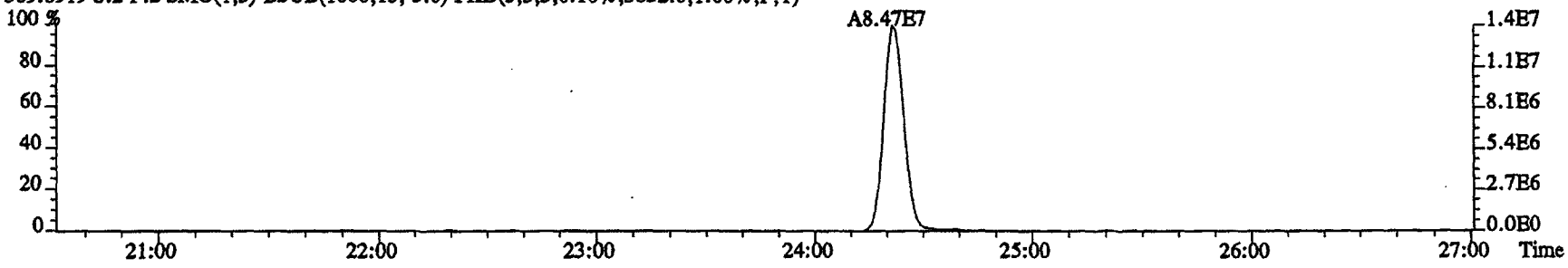
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3768.0,1.00%,F,T)



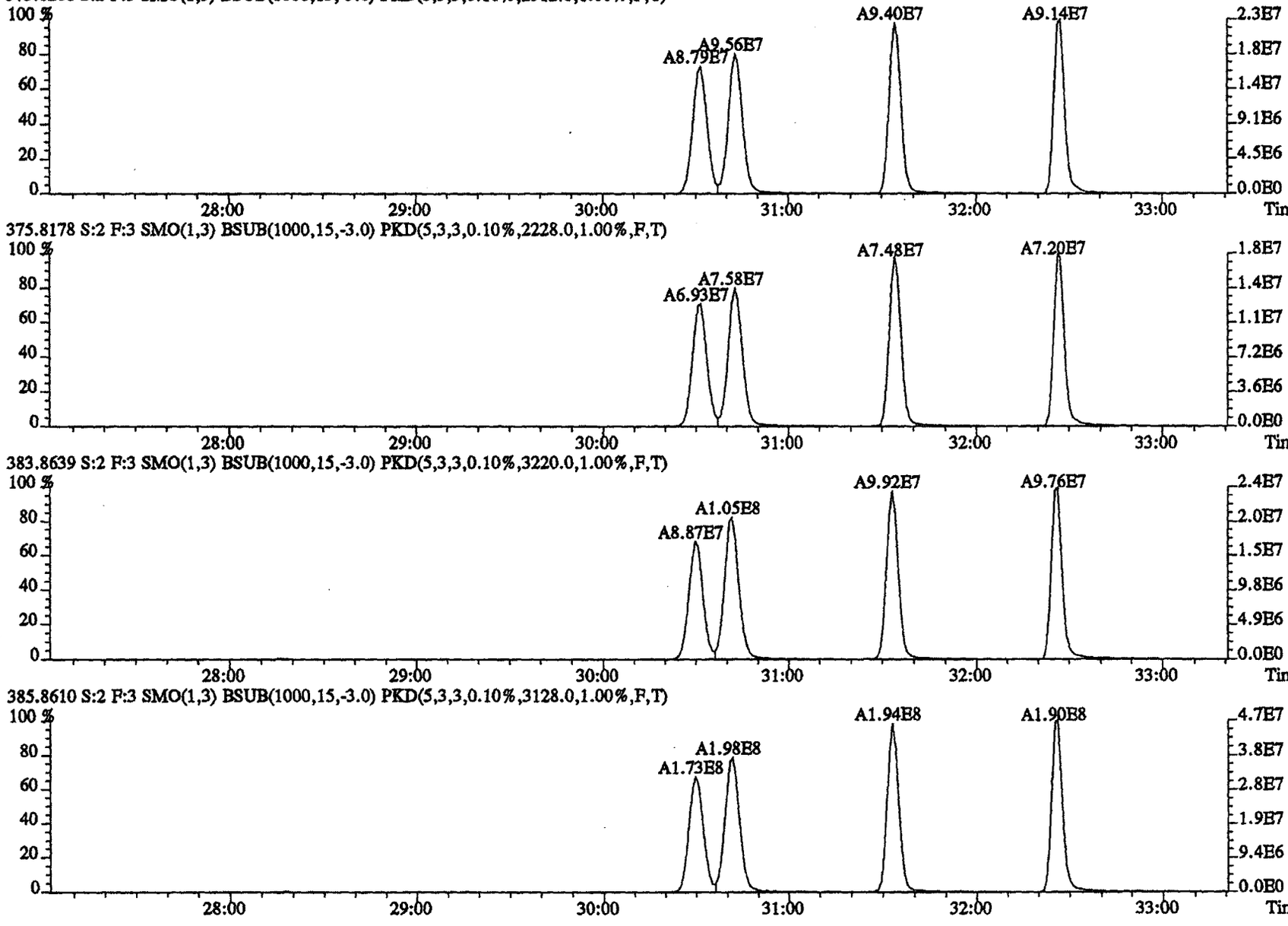
367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5380.0,1.00%,F,T)



369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3852.0,1.00%,F,T)

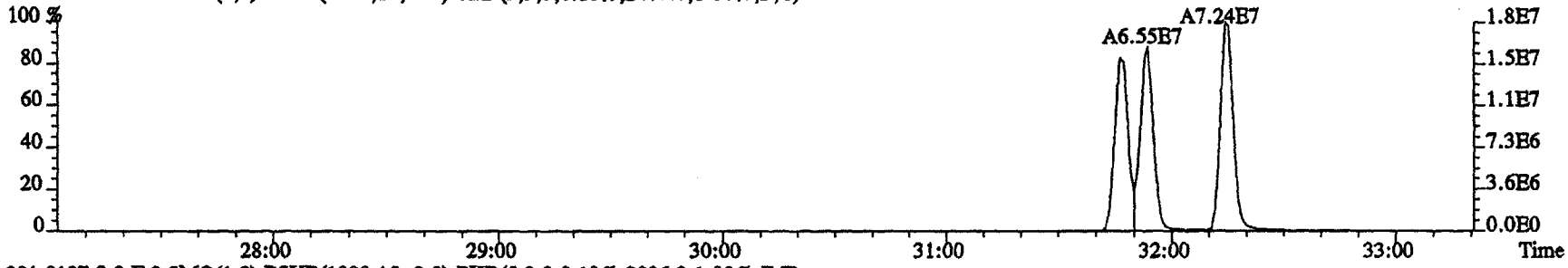


File:27JL101D5 #1-406 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

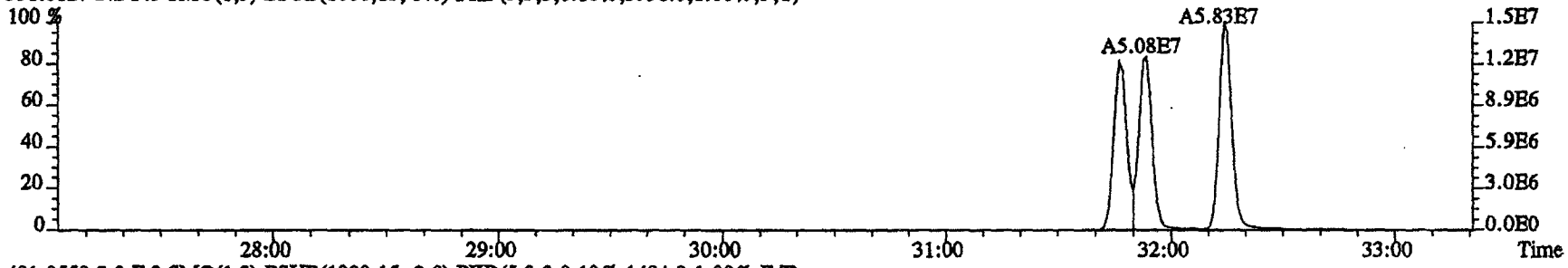


File:27JL101D5 #1-406 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

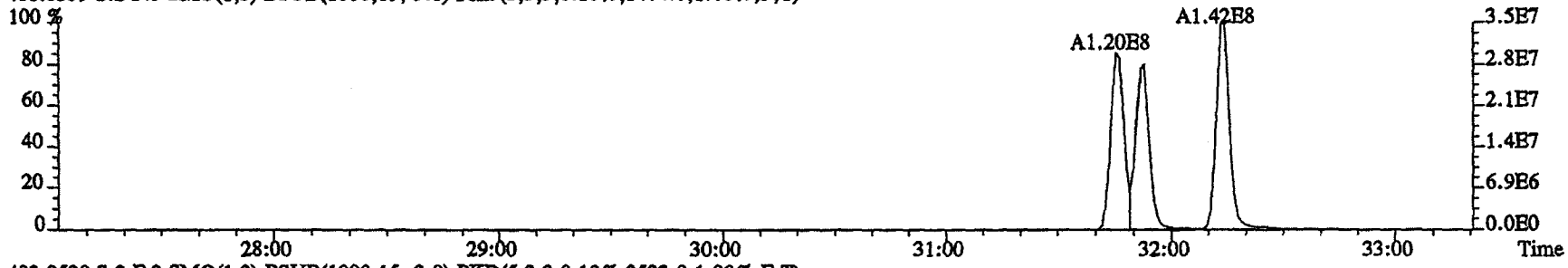
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2408.0,1.00%,F,T)



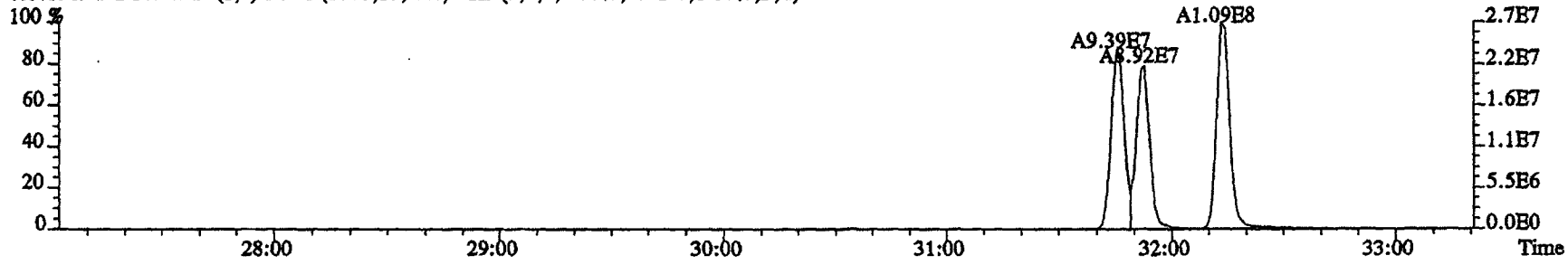
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)



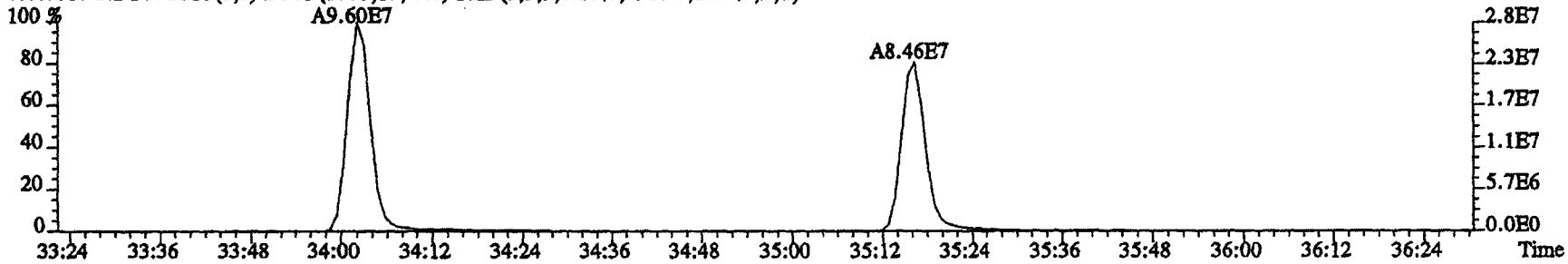
401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



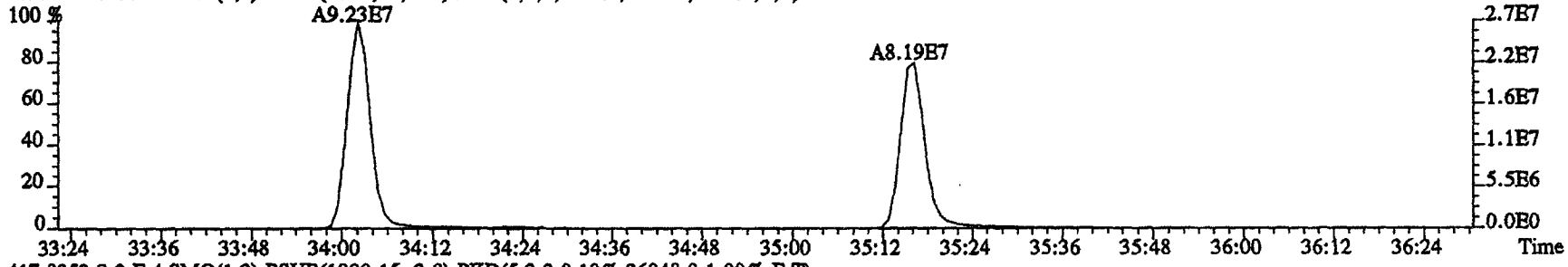
403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3532.0,1.00%,F,T)



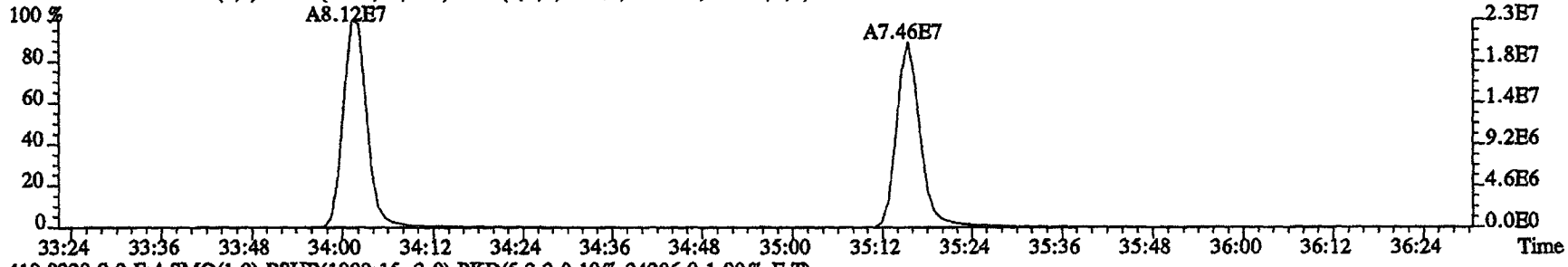
File:27JL101D5 #1-214 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7916.0,1.00%,F,T)



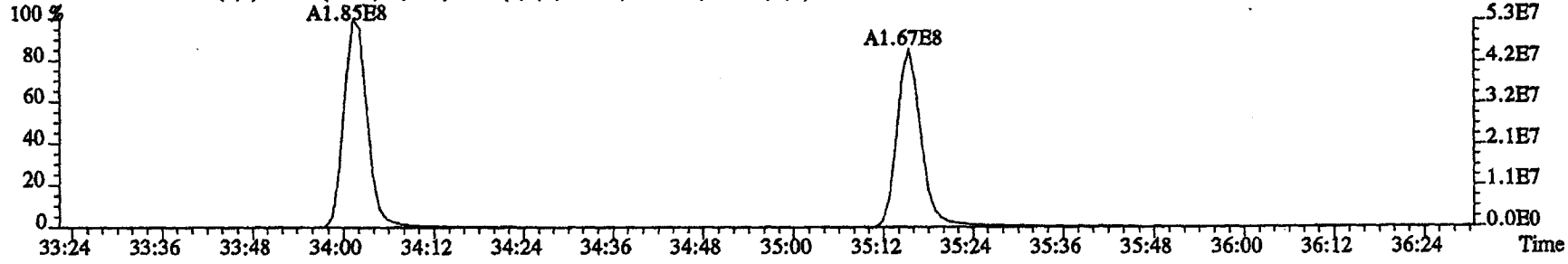
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7240.0,1.00%,F,T)



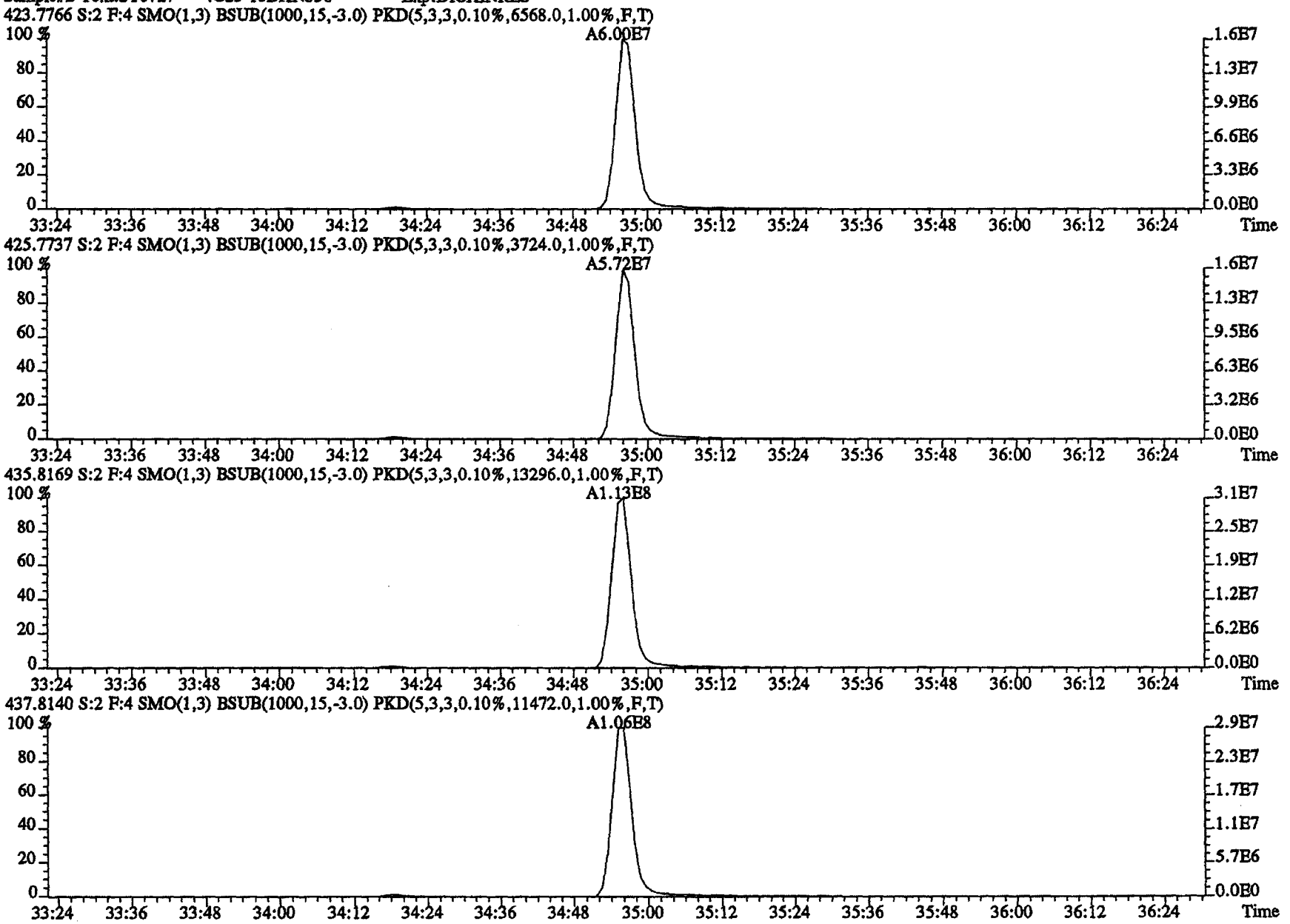
417.8253 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26848.0,1.00%,F,T)



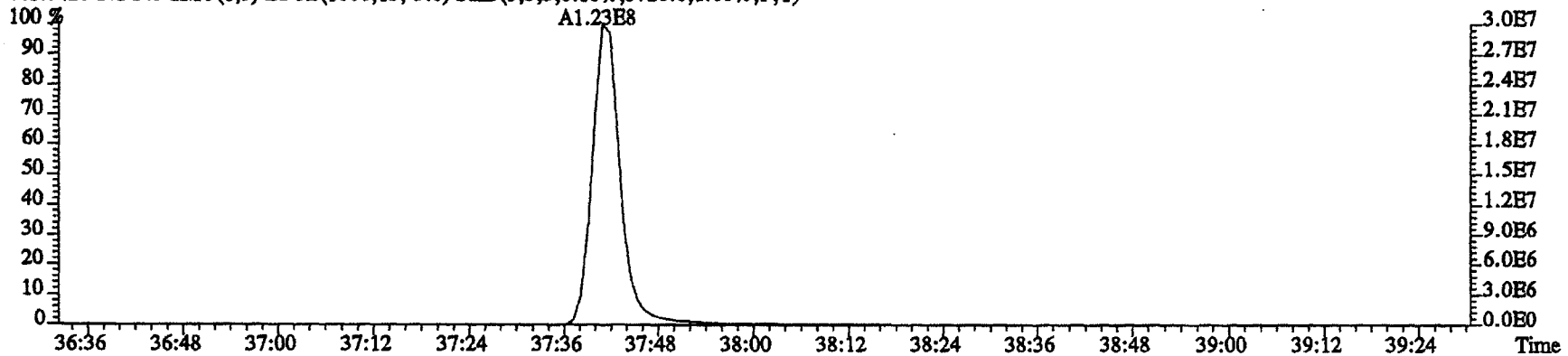
419.8220 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24296.0,1.00%,F,T)



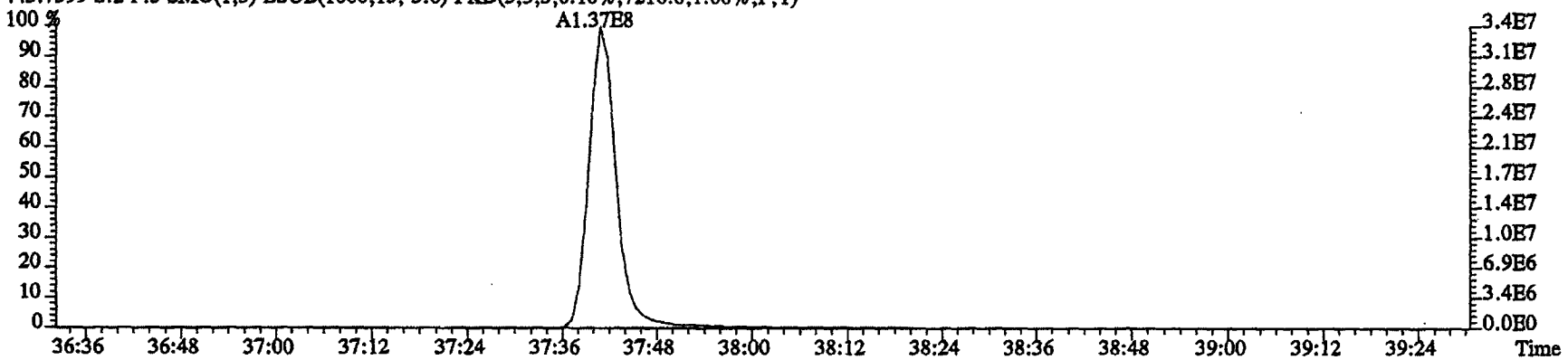
File:27JL101D5 #1-214 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES



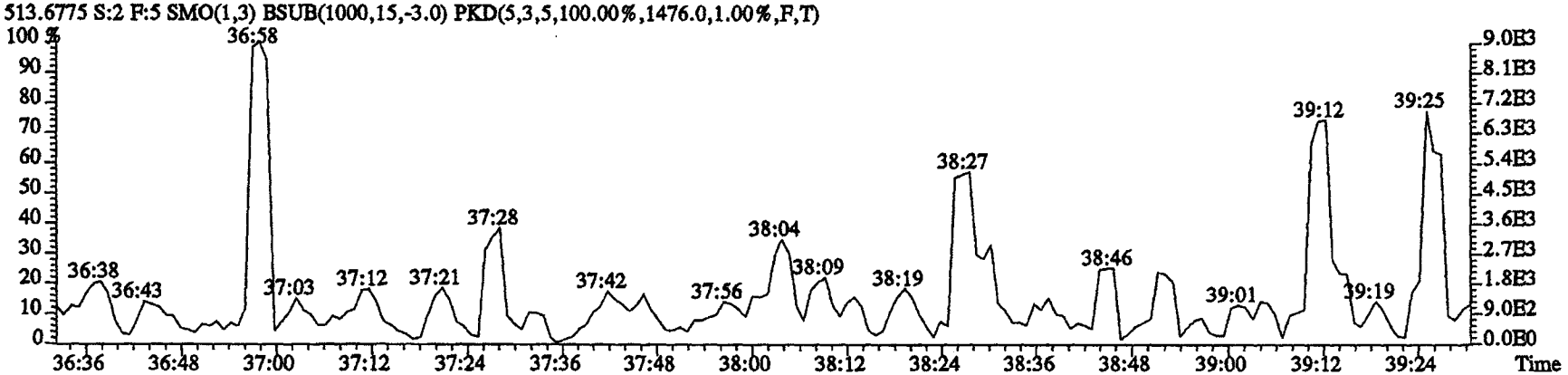
File:27JL101D5 #1-196 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5720.0,1.00%,F,T)

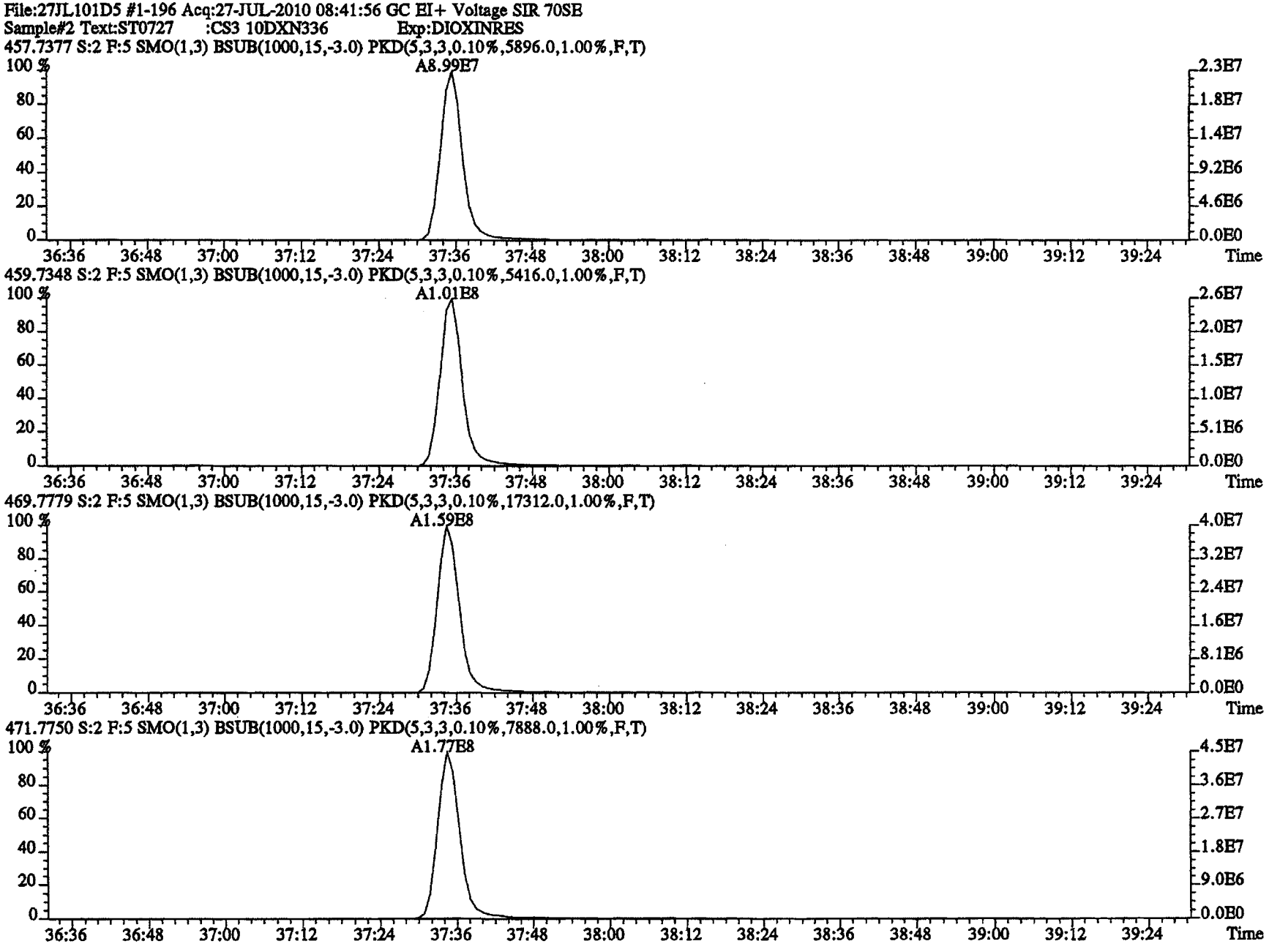


443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7216.0,1.00%,F,T)



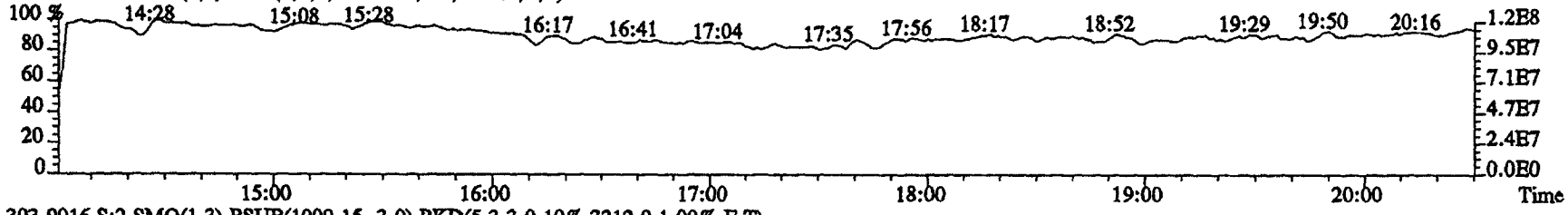
513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1476.0,1.00%,F,T)



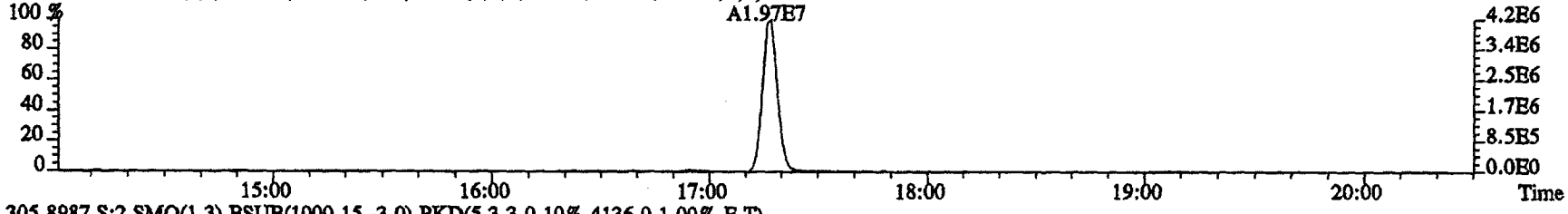

File:27JL101D5 #1-196 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5896.0,1.00%,F,T)
A8.99E7
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5416.0,1.00%,F,T)
A1.01E8
469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17312.0,1.00%,F,T)
A1.59E8
471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7888.0,1.00%,F,T)
A1.77E8
100 %
80
60
40
20
0
36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24
Time
2.3E7 1.8E7 1.4E7 9.2E6 4.6E6 0.0E0
2.6E7 2.0E7 1.5E7 1.0E7 5.1E6 0.0E0
4.0E7 3.2E7 2.4E7 1.6E7 8.1E6 0.0E0
4.5E7 3.6E7 2.7E7 1.8E7 9.0E6 0.0E0

File:27JL101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

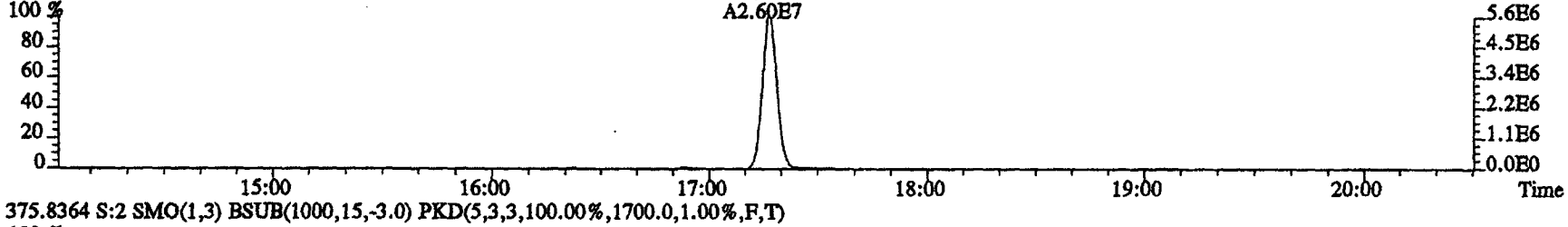
292.9825 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



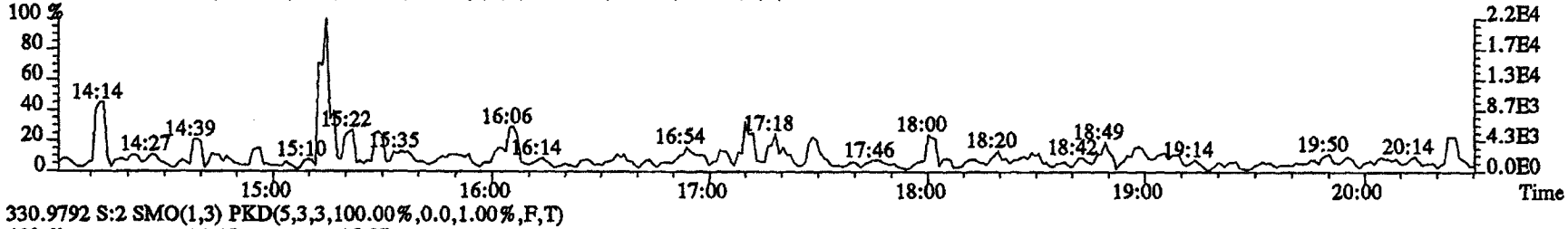
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3212.0,1.00%,F,T)



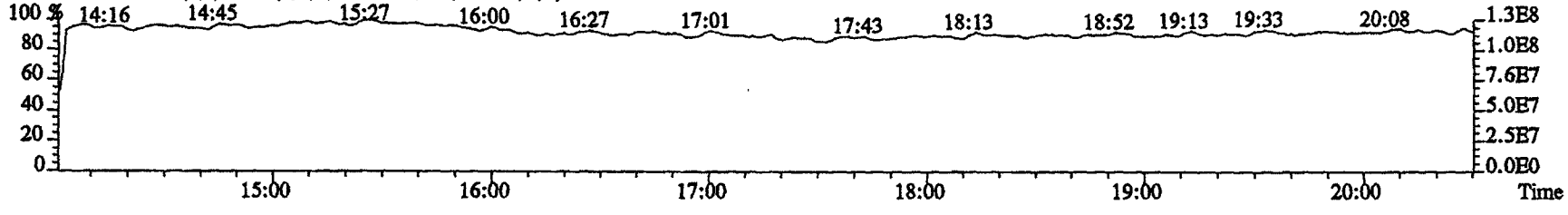
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4136.0,1.00%,F,T)



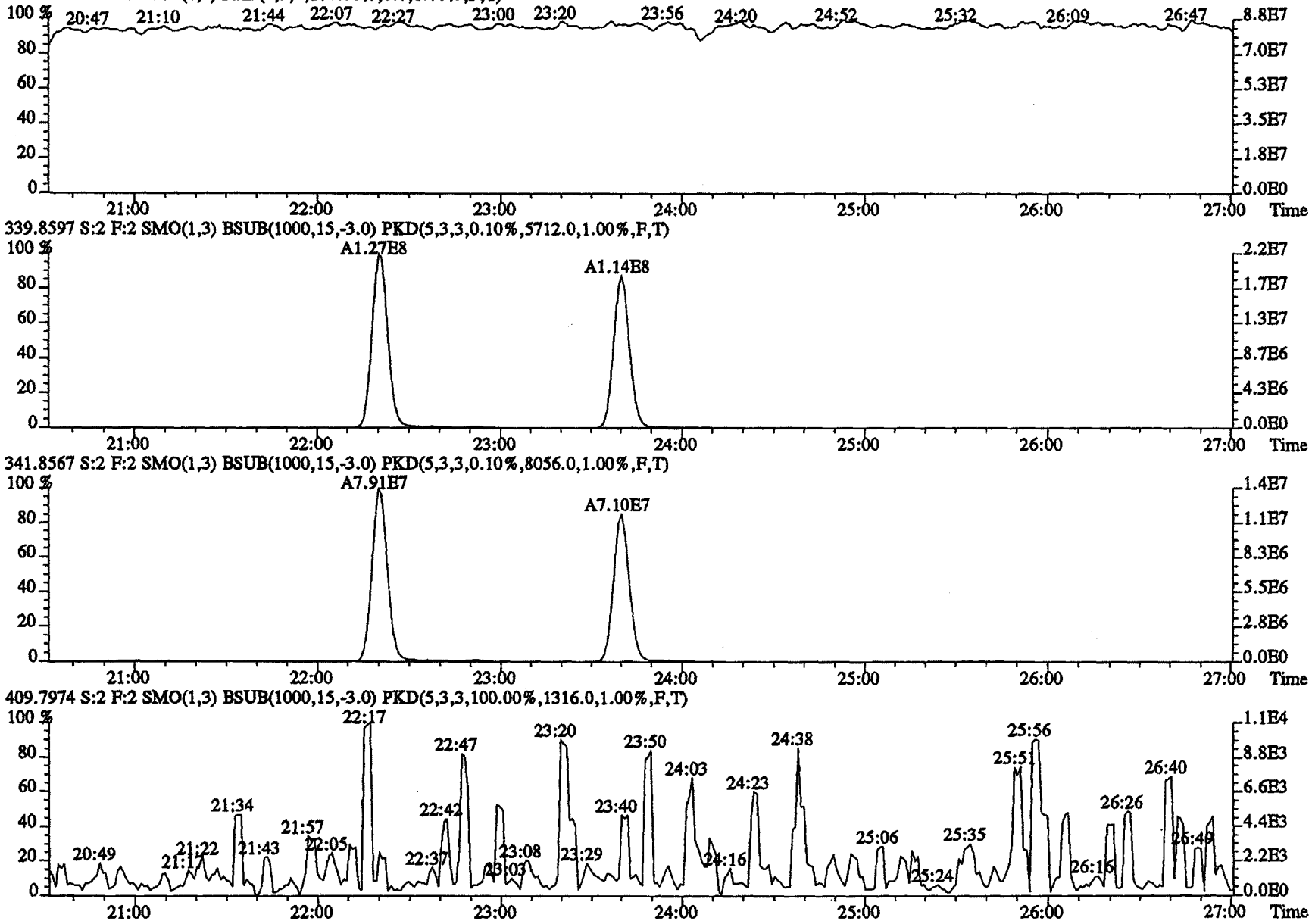
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1700.0,1.00%,F,T)



330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

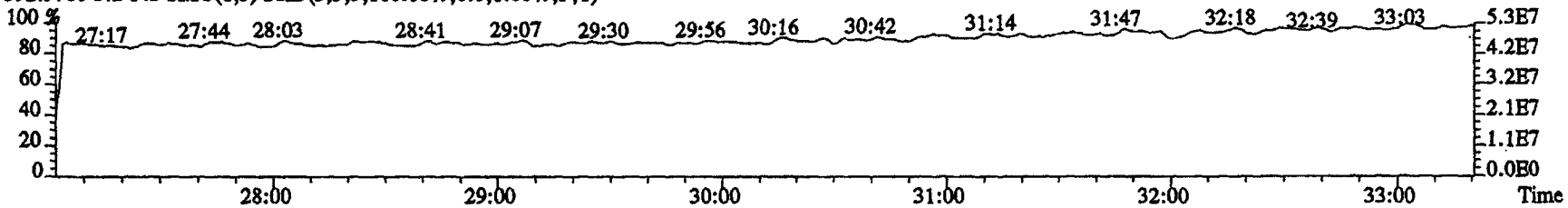


File:27JL101D5 #1-404 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

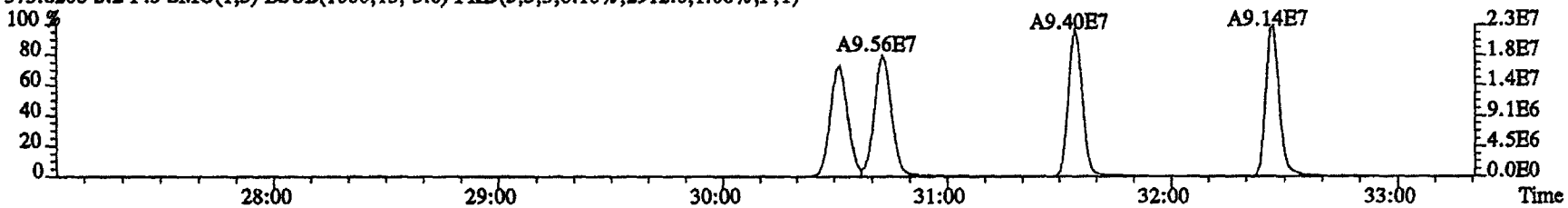


File:27JL101D5 #1-406 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

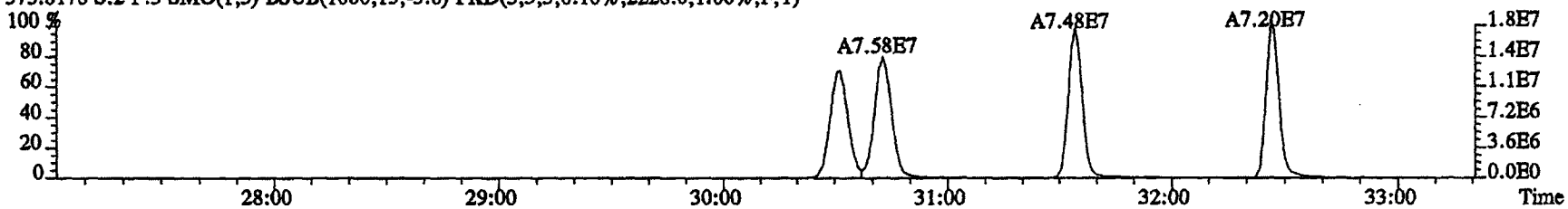
392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



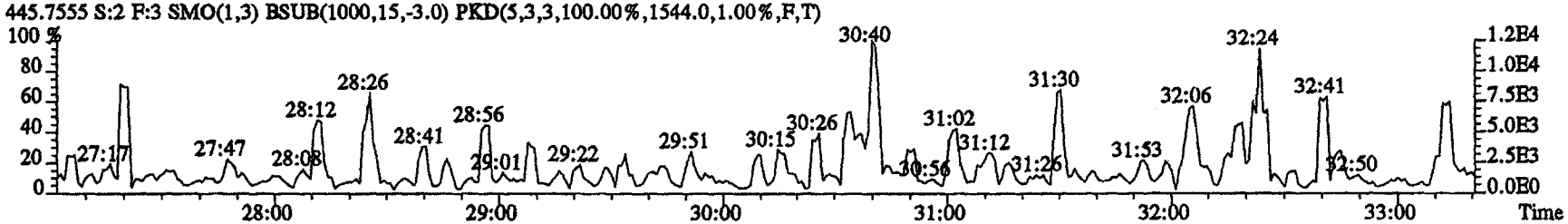
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2912.0,1.00%,F,T)



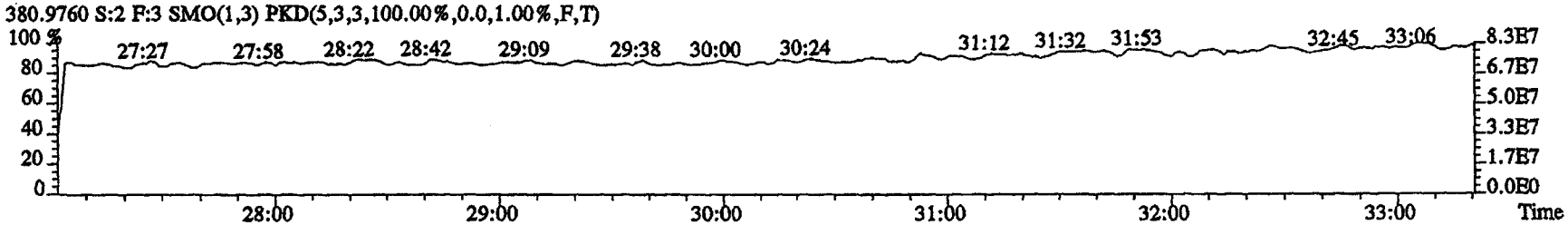
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2228.0,1.00%,F,T)

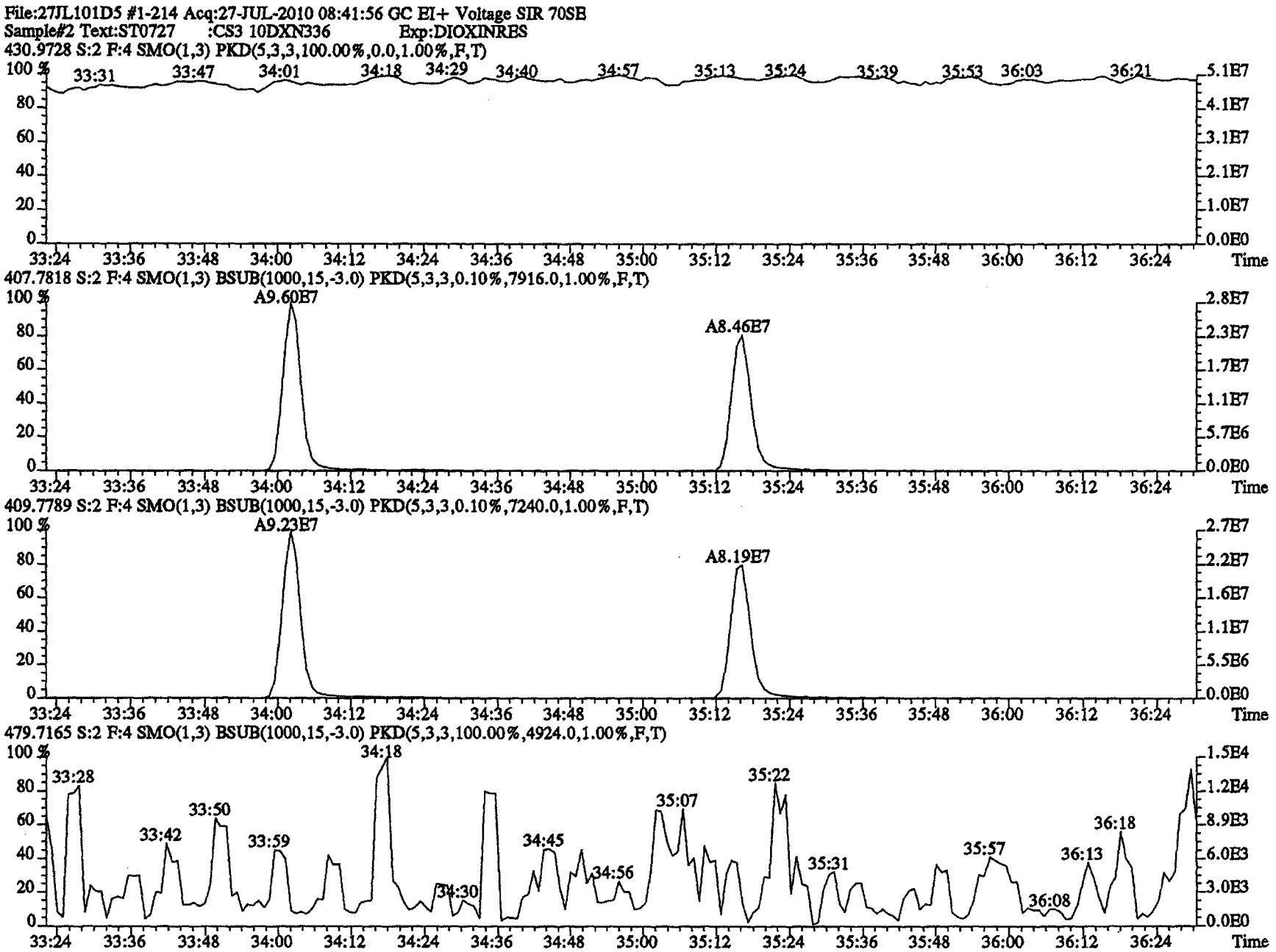


445.7555 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1544.0,1.00%,F,T)

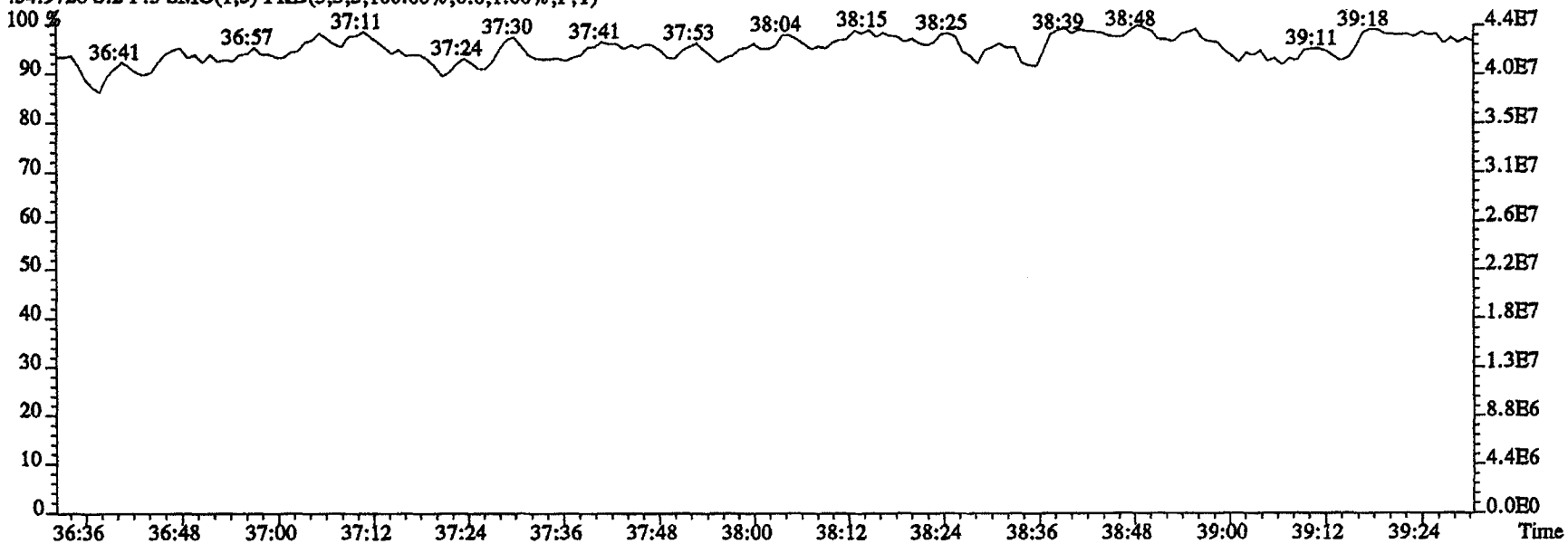


380.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

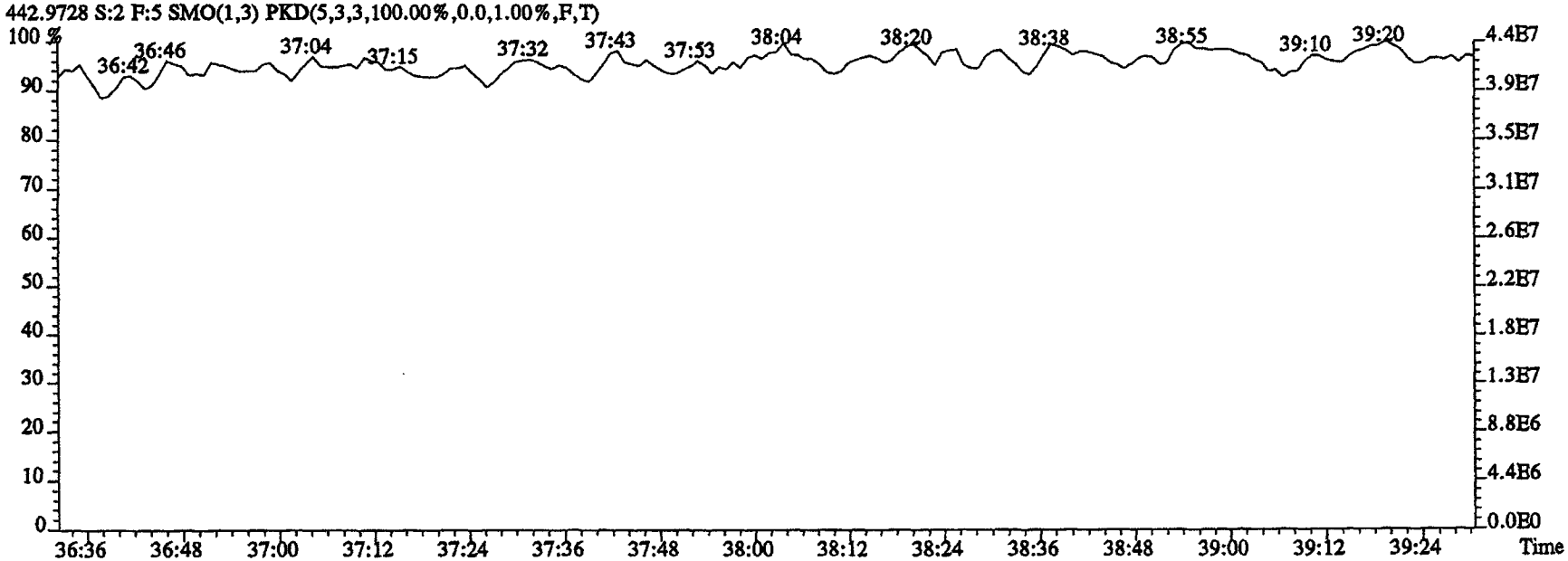




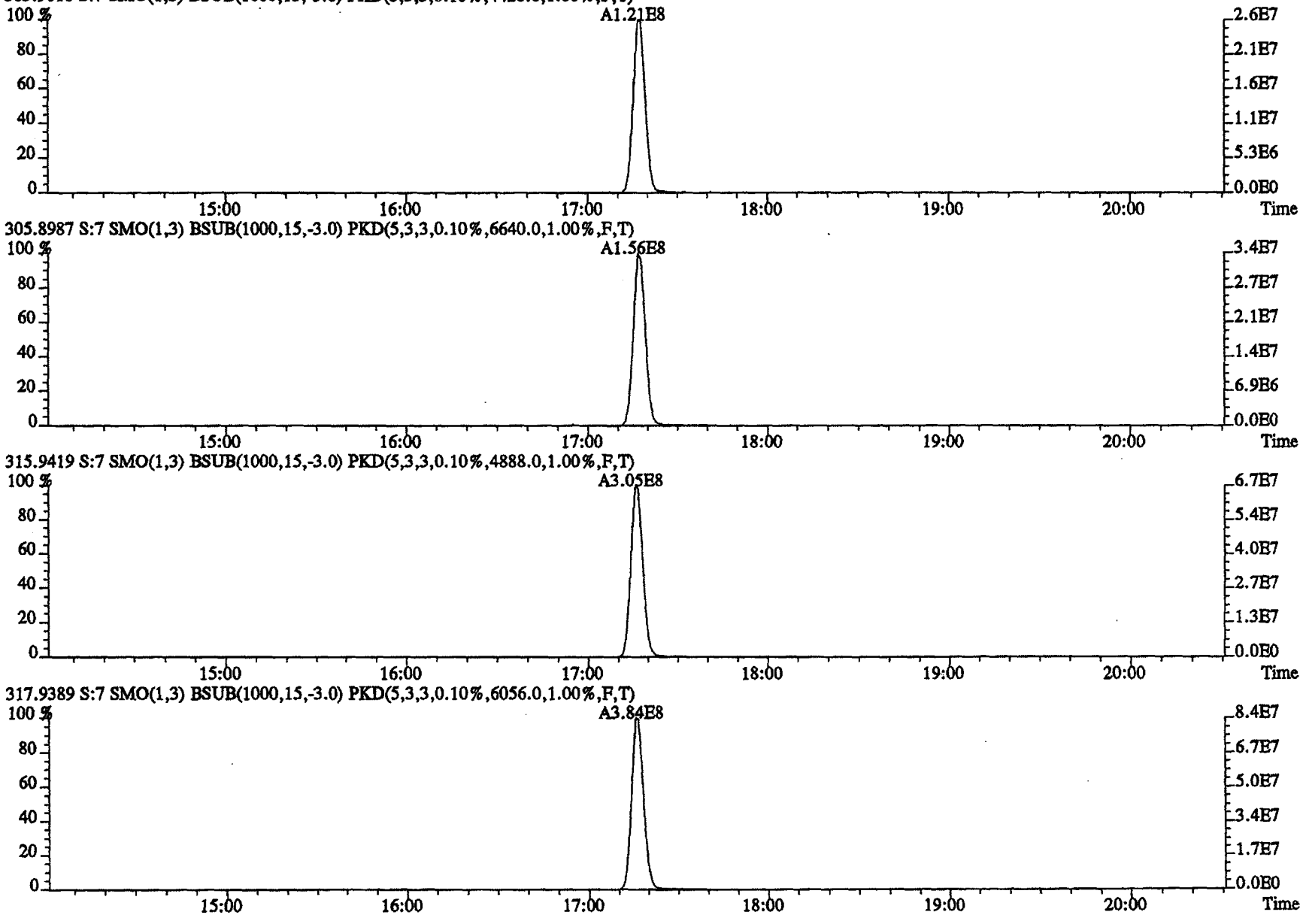
File:27JL101D5 #1-196 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



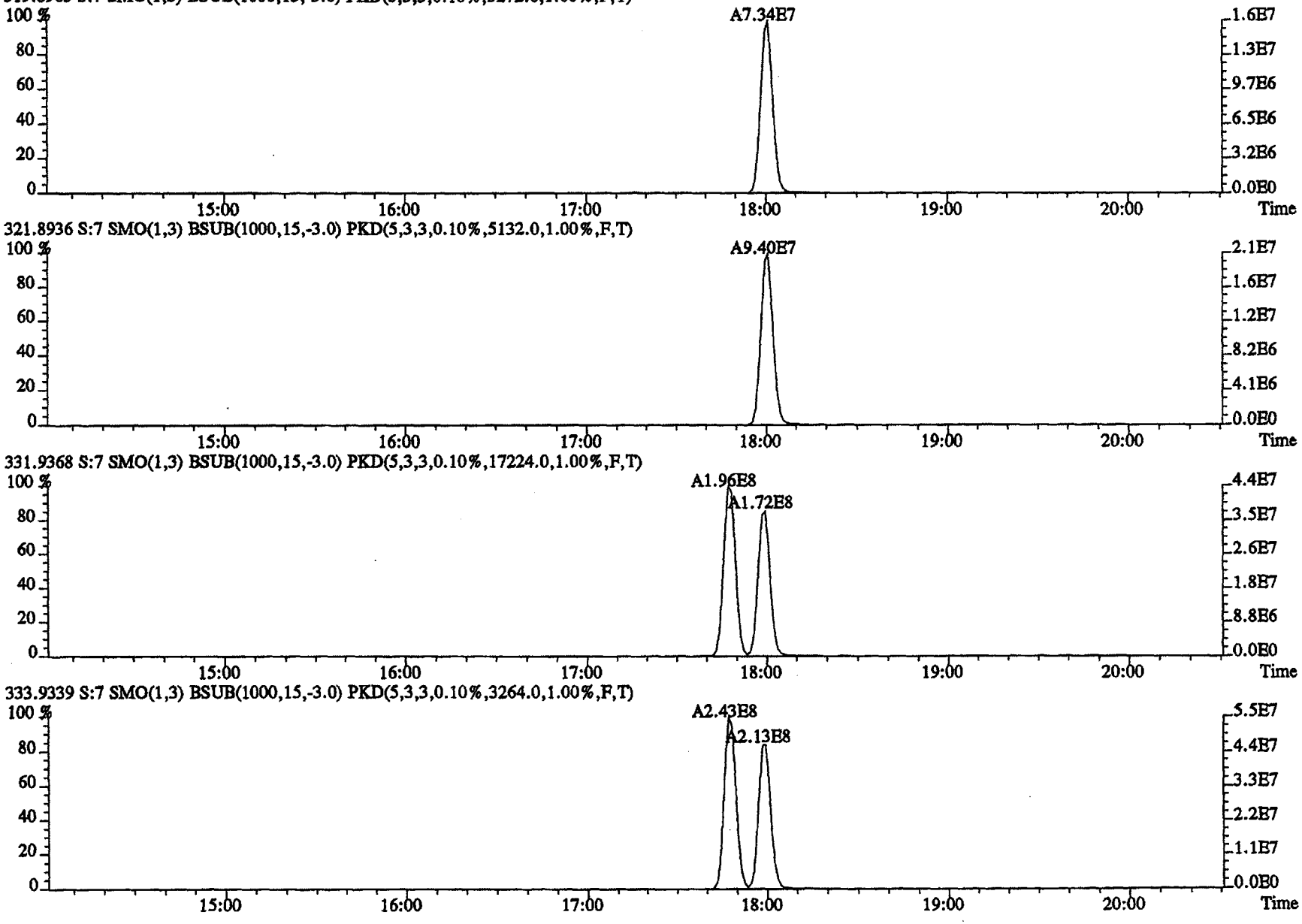
442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



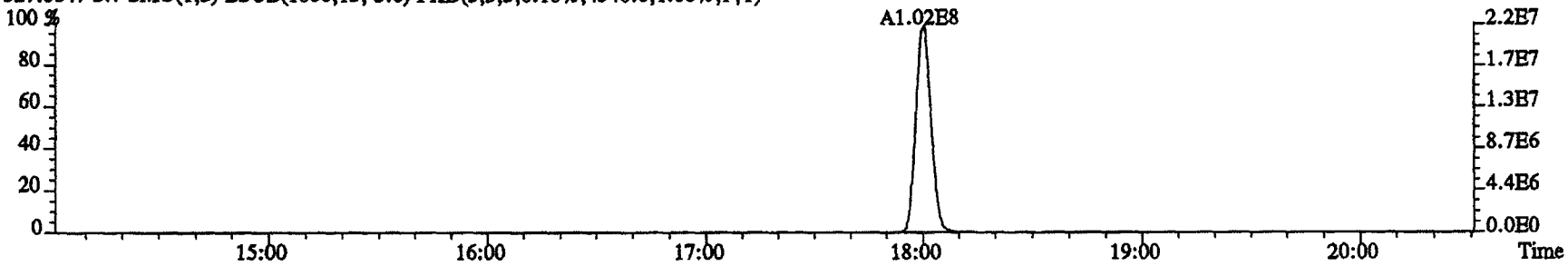
File:27JL101D5 #1-382 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



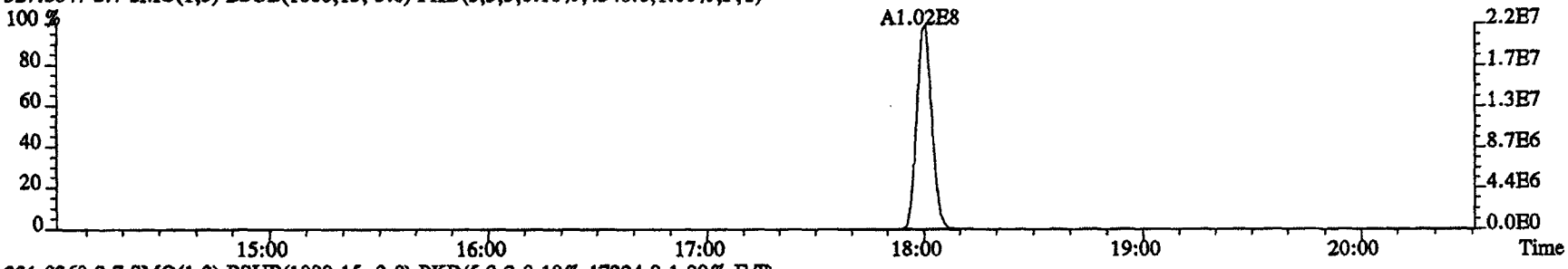
File:27JL101D5 #1-382 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



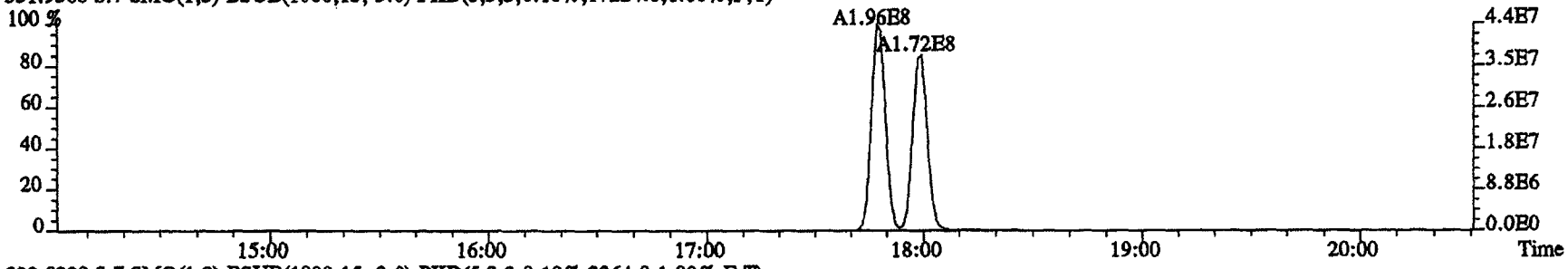
File:27JL101D5 #1-382 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4340.0,1.00%,F,T)



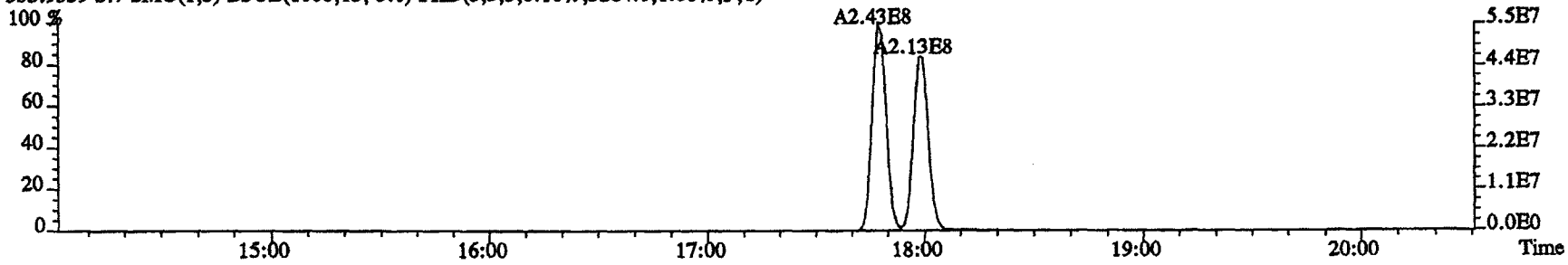
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4340.0,1.00%,F,T)



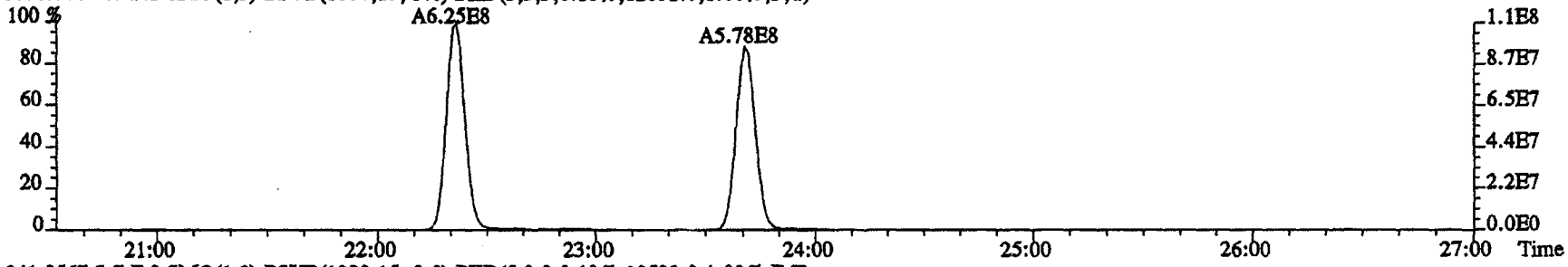
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17224.0,1.00%,F,T)



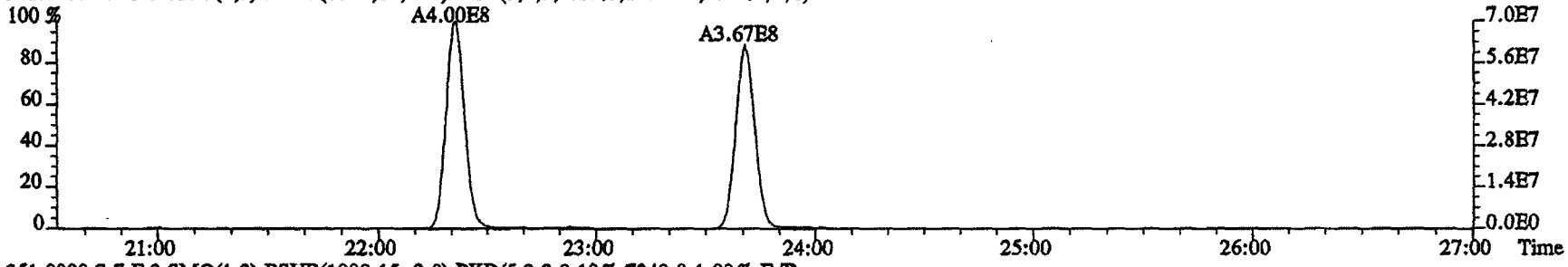
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3264.0,1.00%,F,T)



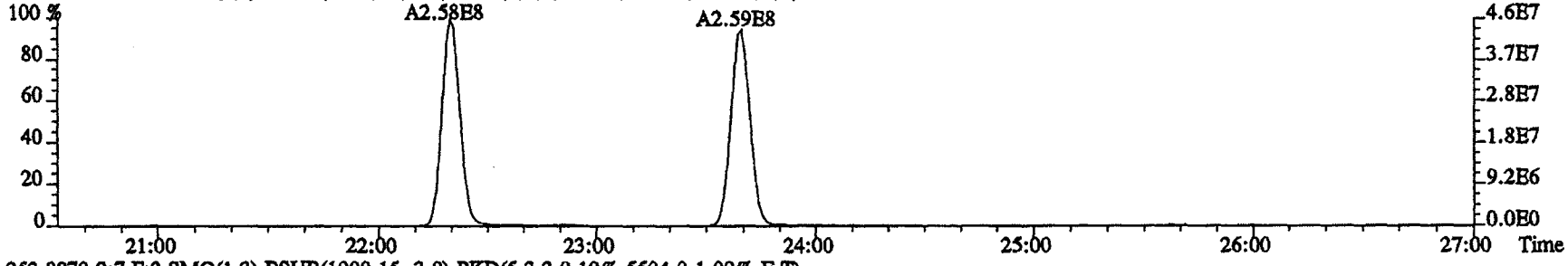
File:27JL101D5 #1-403 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12852.0,1.00%,F,T)



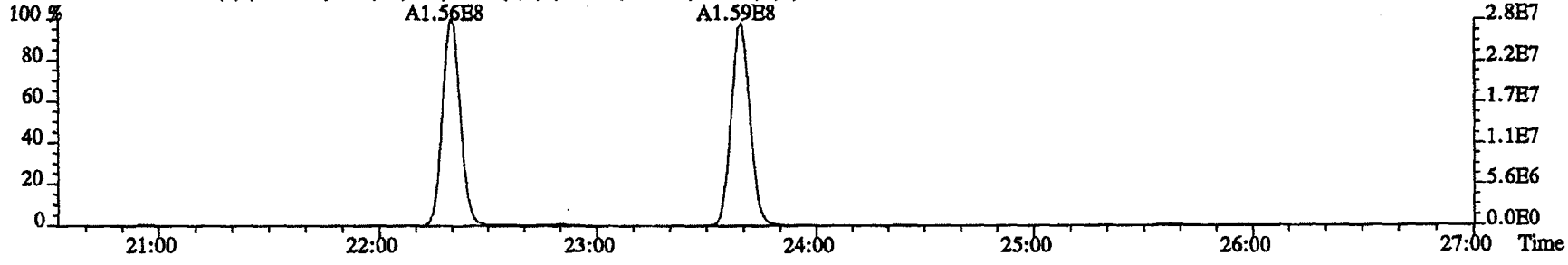
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10532.0,1.00%,F,T)



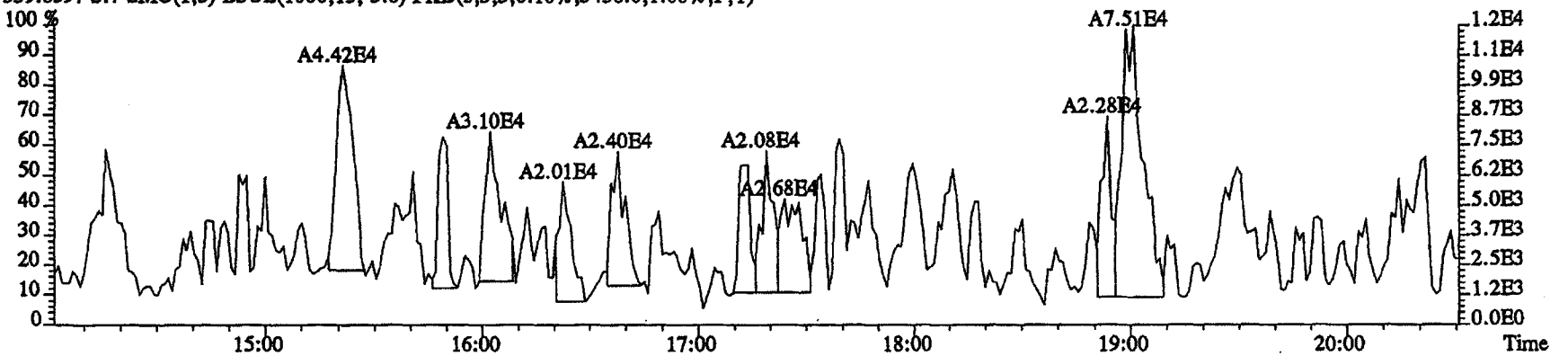
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7240.0,1.00%,F,T)



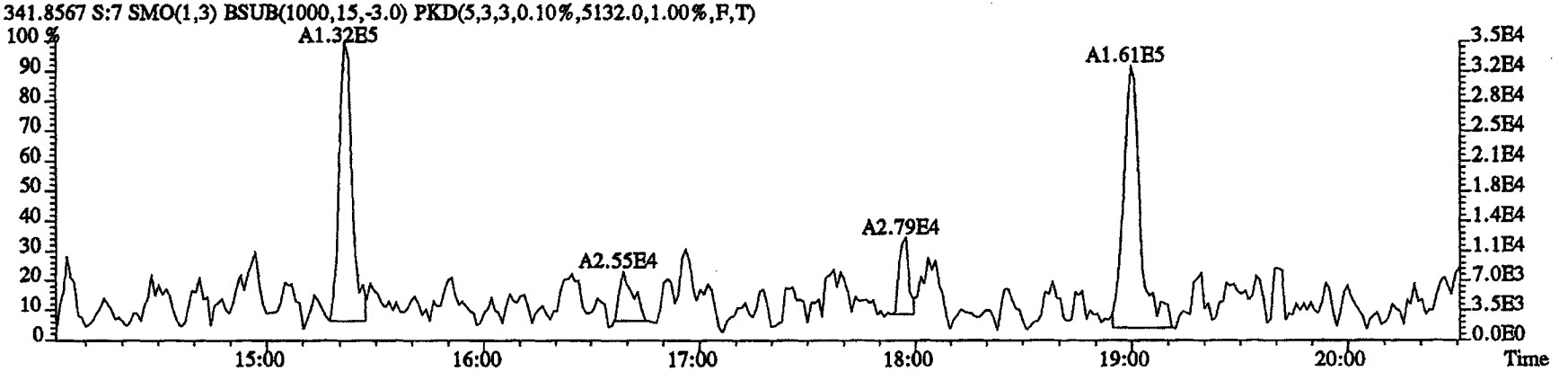
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5504.0,1.00%,F,T)



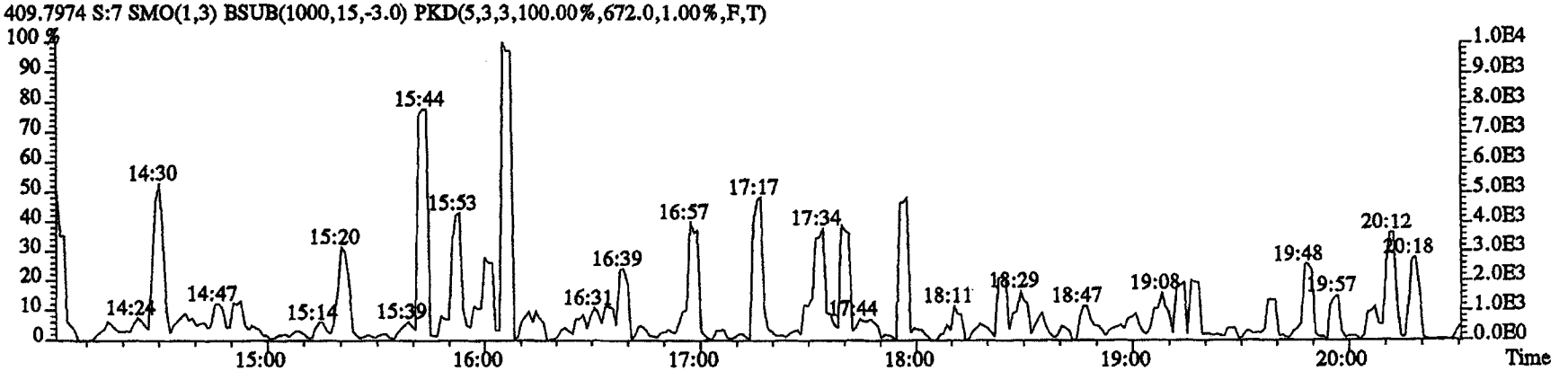
File:27JL101D5 #1-382 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
339.8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3456.0,1.00%,F,T)



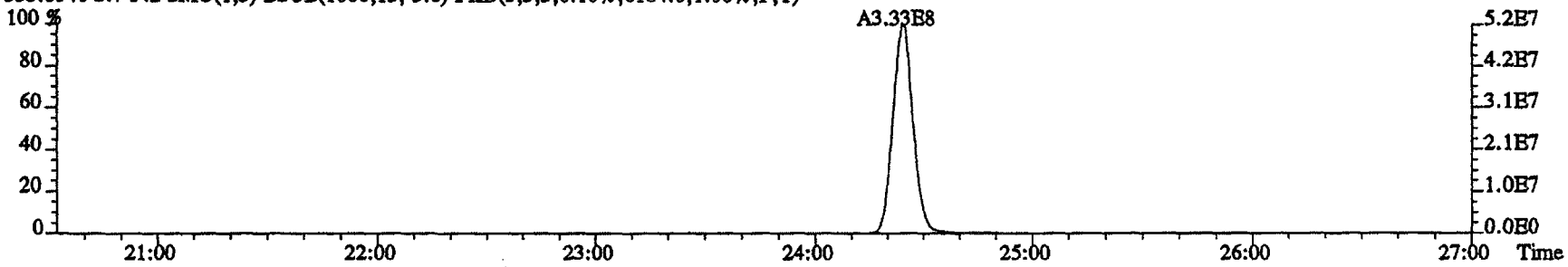
341.8567 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5132.0,1.00%,F,T)



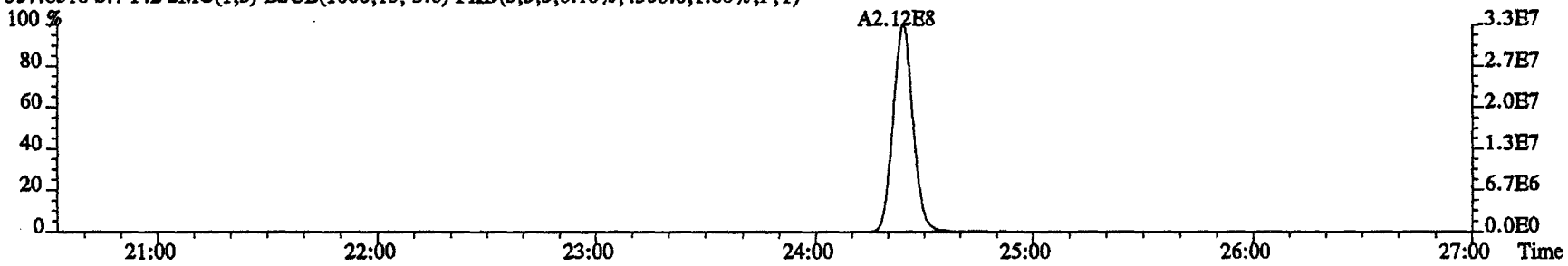
409.7974 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,672.0,1.00%,F,T)



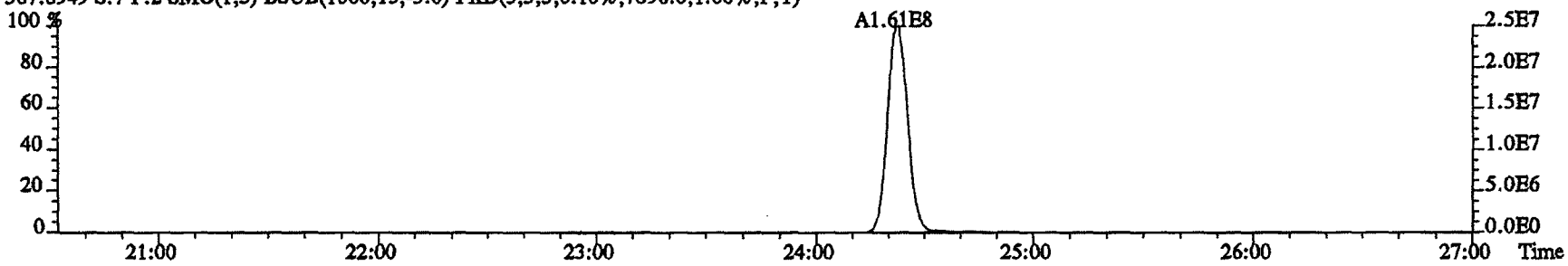
File:27JL101D5 #1-403 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6184.0,1.00%,F,T)



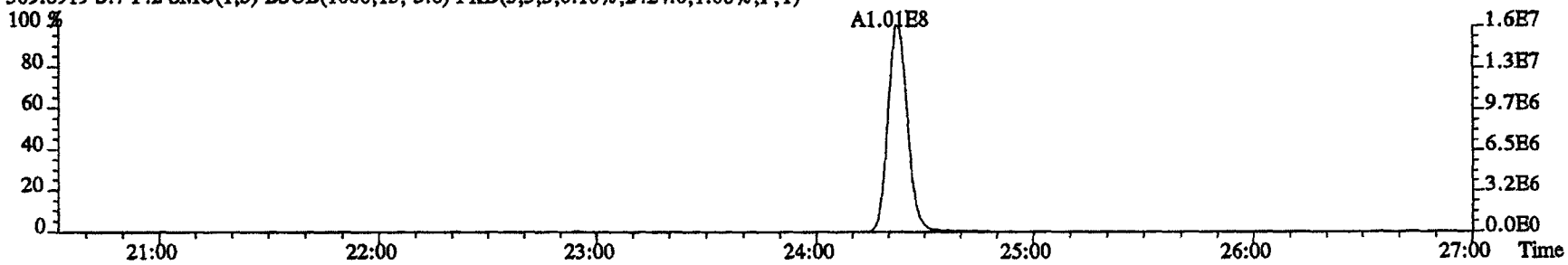
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4300.0,1.00%,F,T)



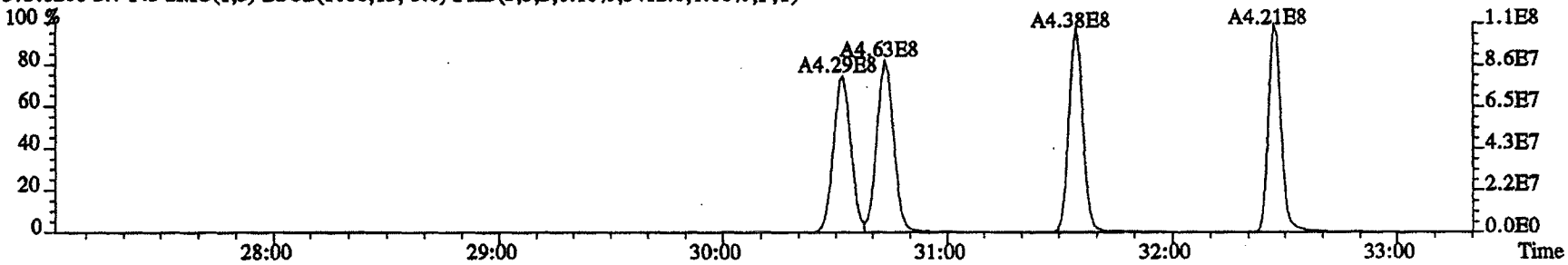
367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7896.0,1.00%,F,T)



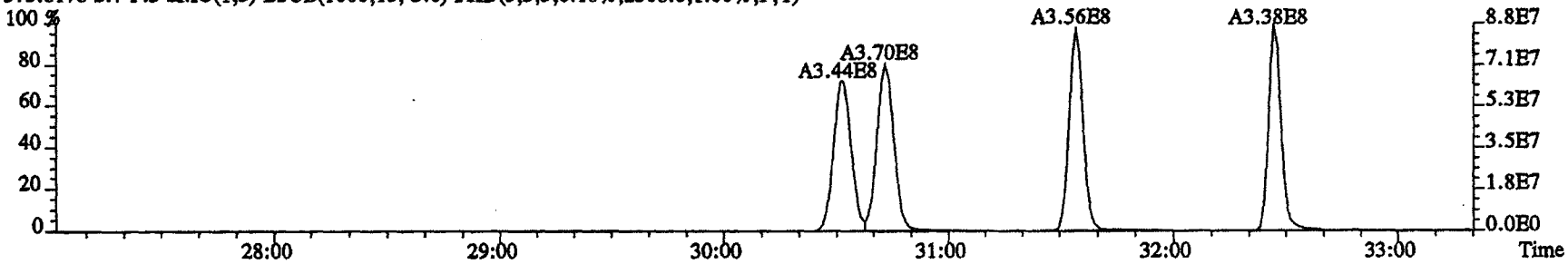
369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2424.0,1.00%,F,T)



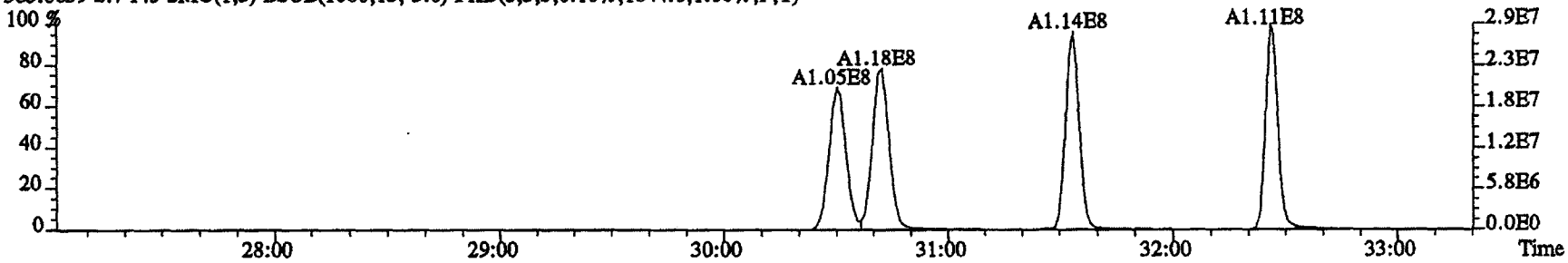
File:27JL101D5 #1-406 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412.0,1.00%,F,T)



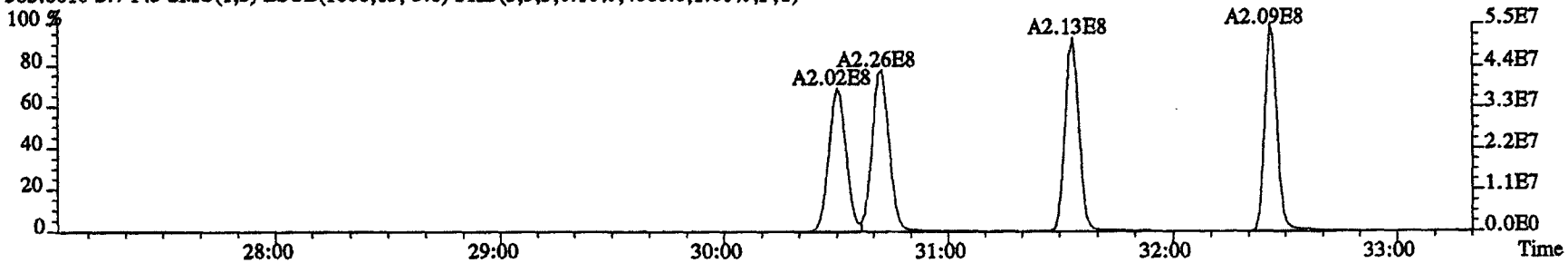
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2508.0,1.00%,F,T)



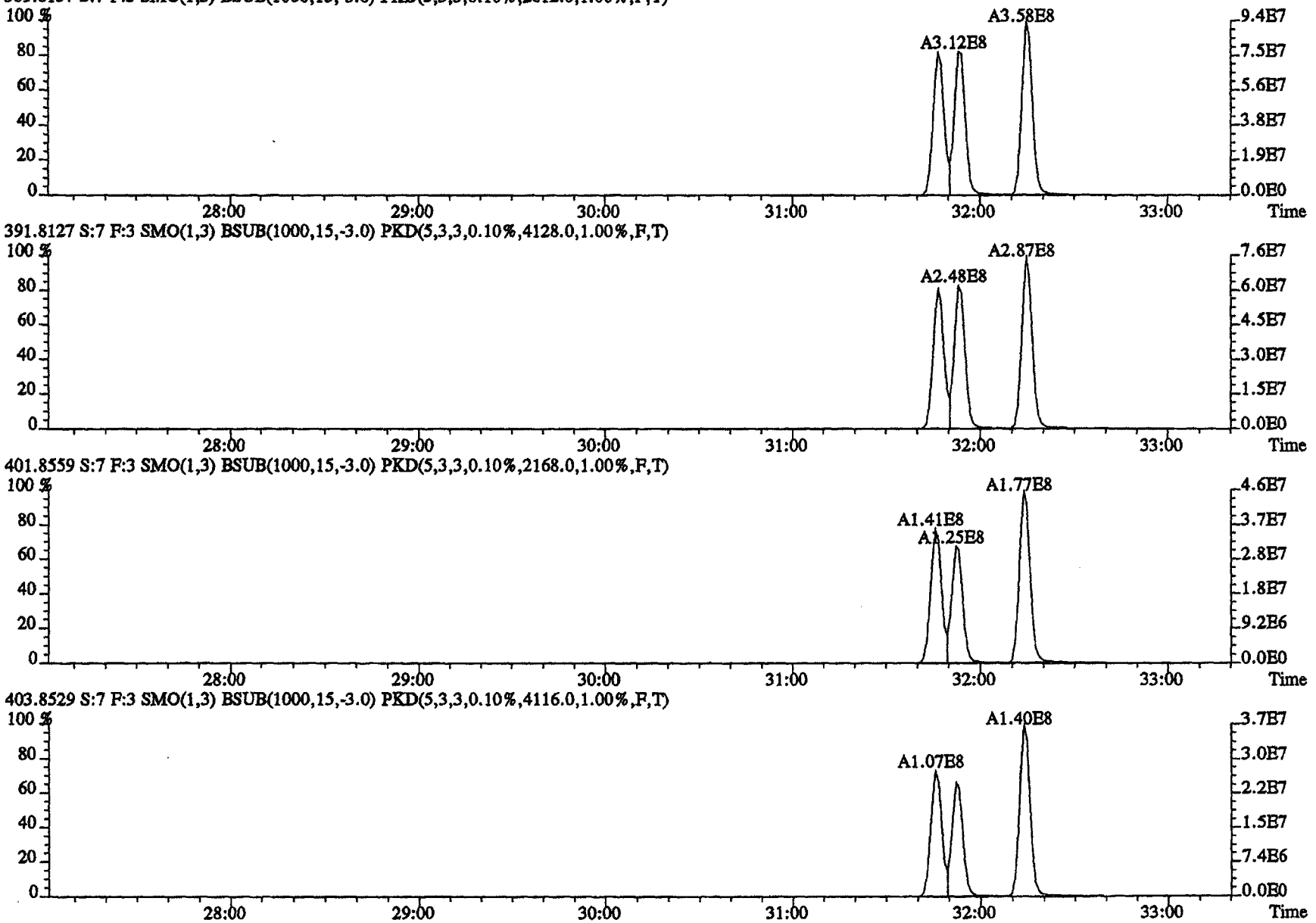
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



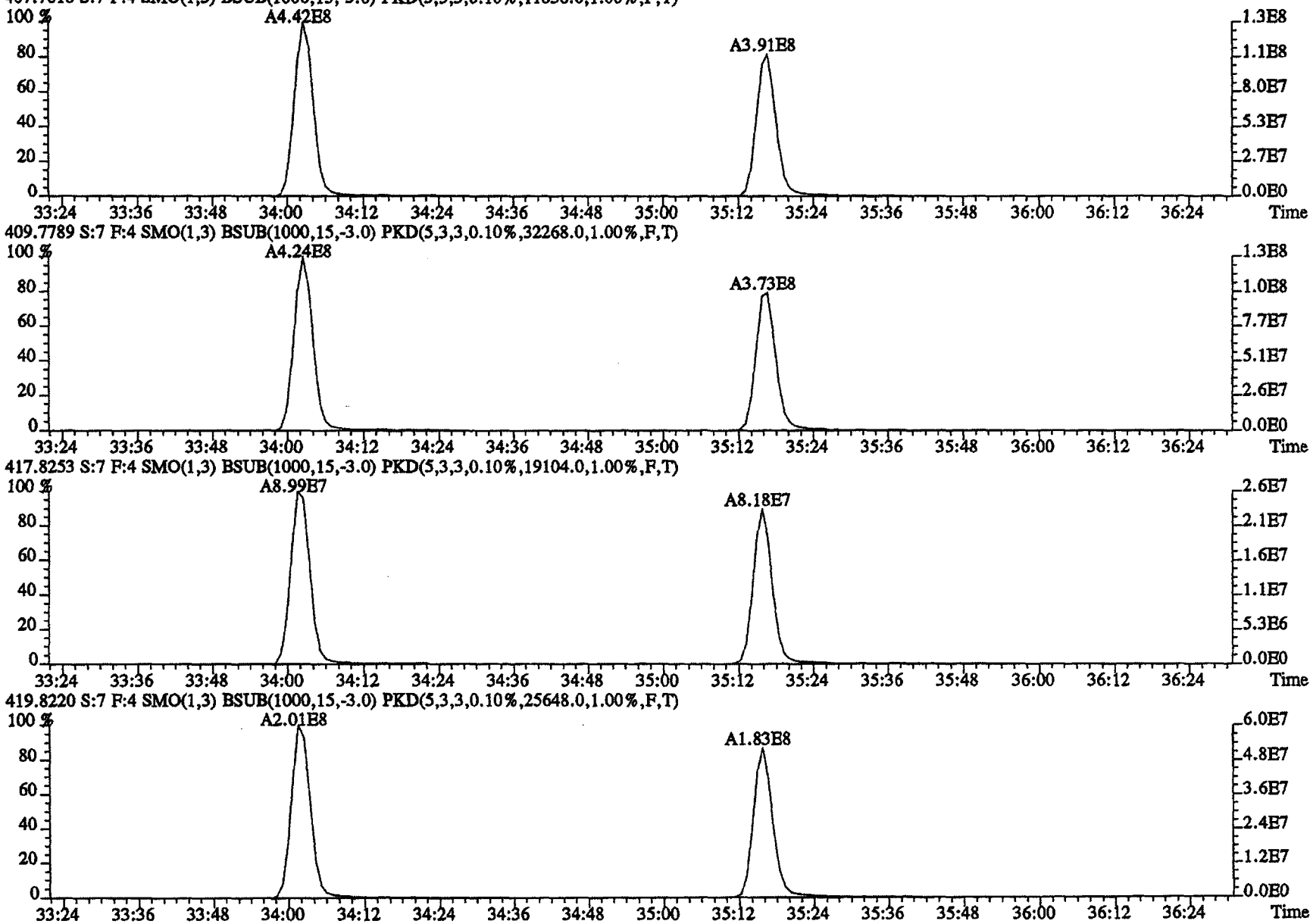
385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4860.0,1.00%,F,T)



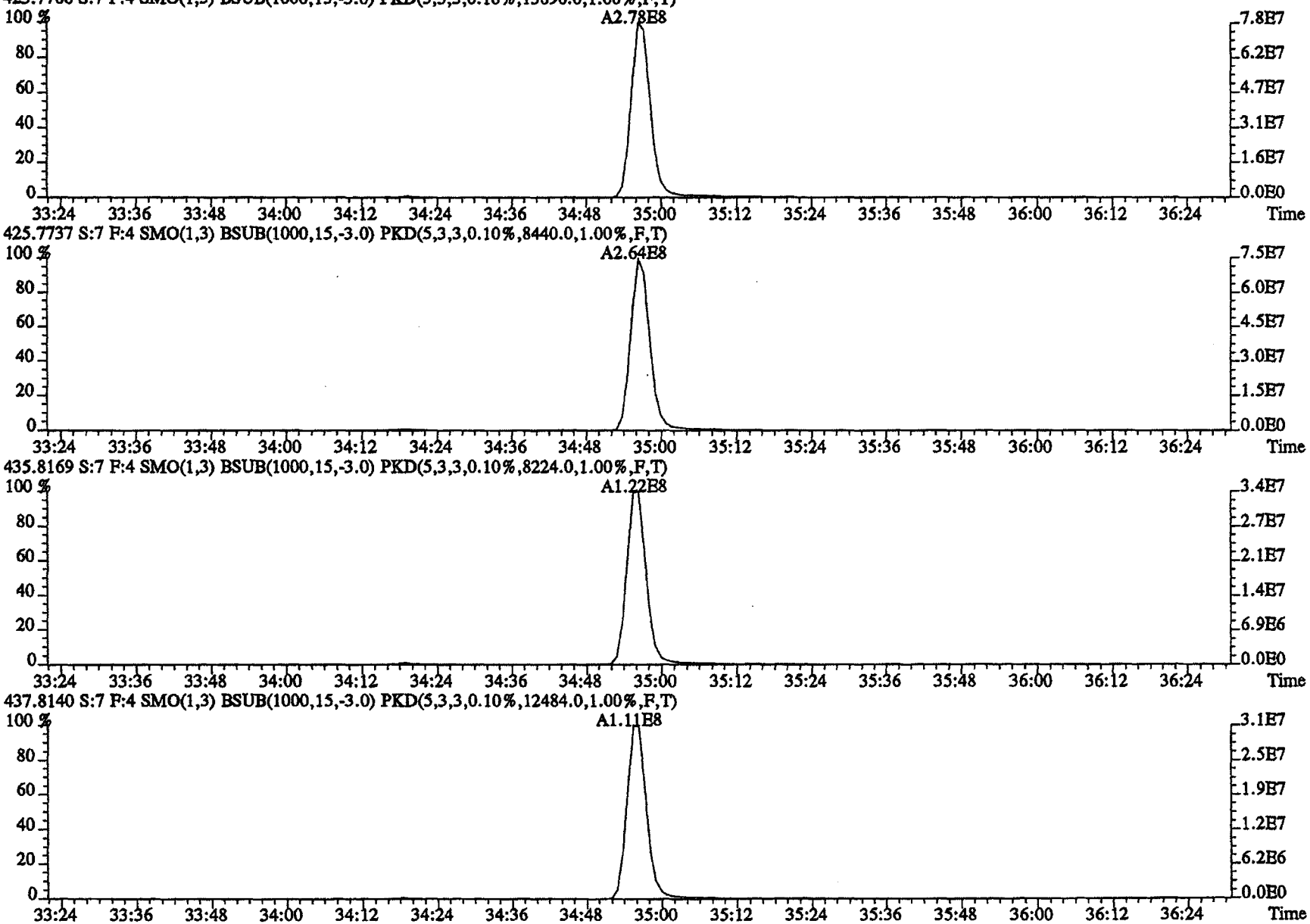
File:27JL101D5 #1-406 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



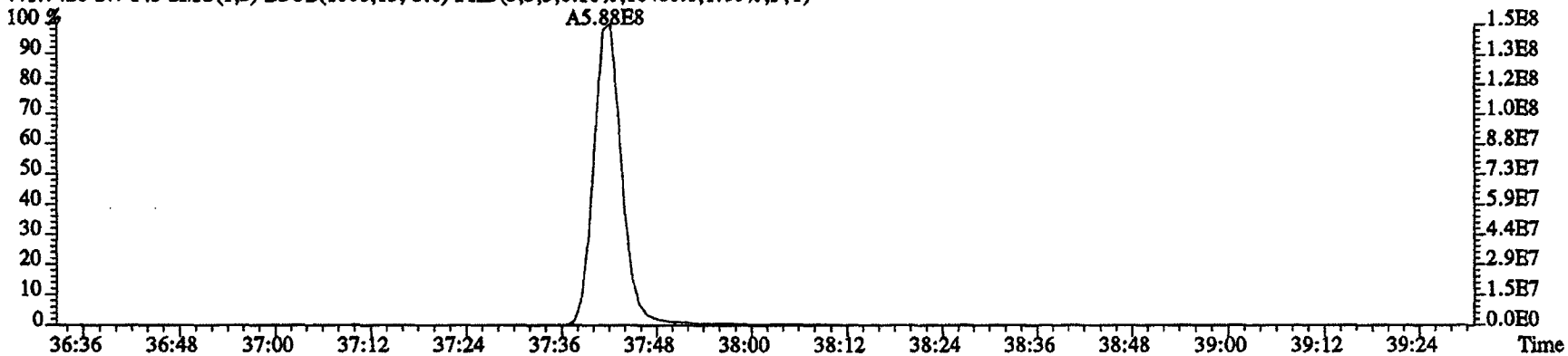
File:27JL101D5 #1-215 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



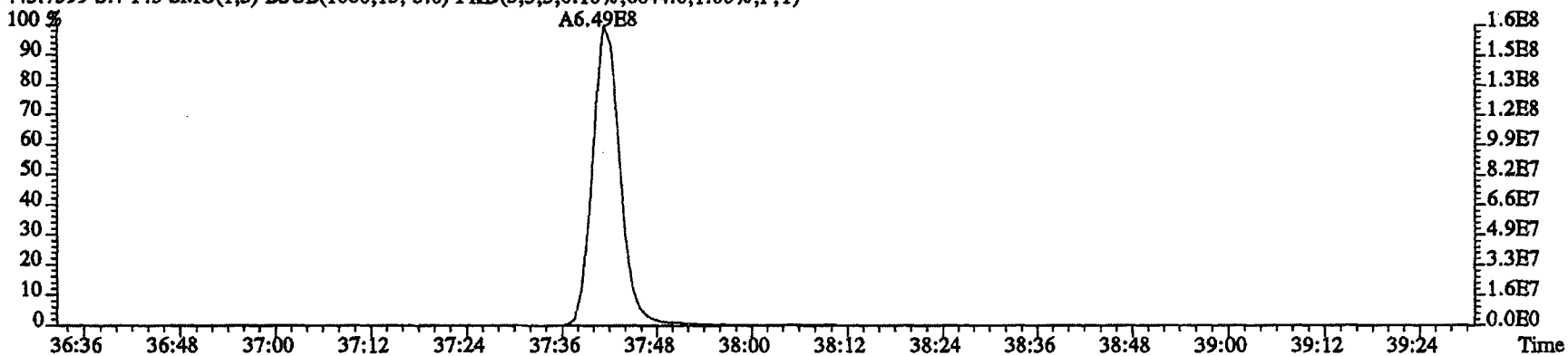
File:27JL101D5 #1-215 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



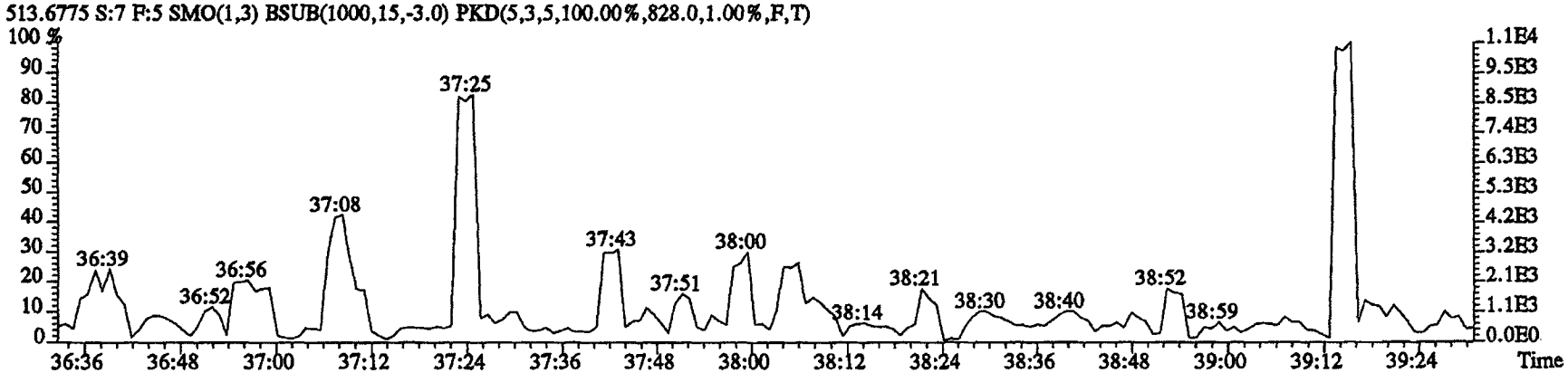
File:27JL101D5 #1-196 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10480.0,1.00%,F,T)



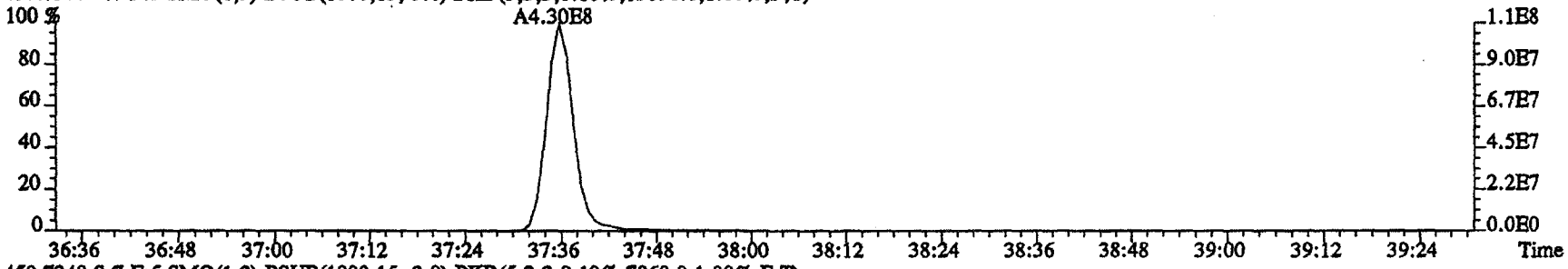
443.7399 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6644.0,1.00%,F,T)



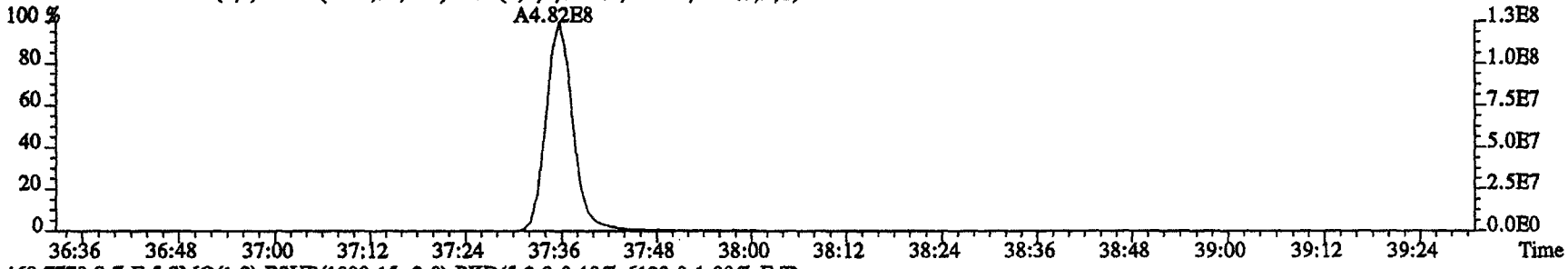
513.6775 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,828.0,1.00%,F,T)



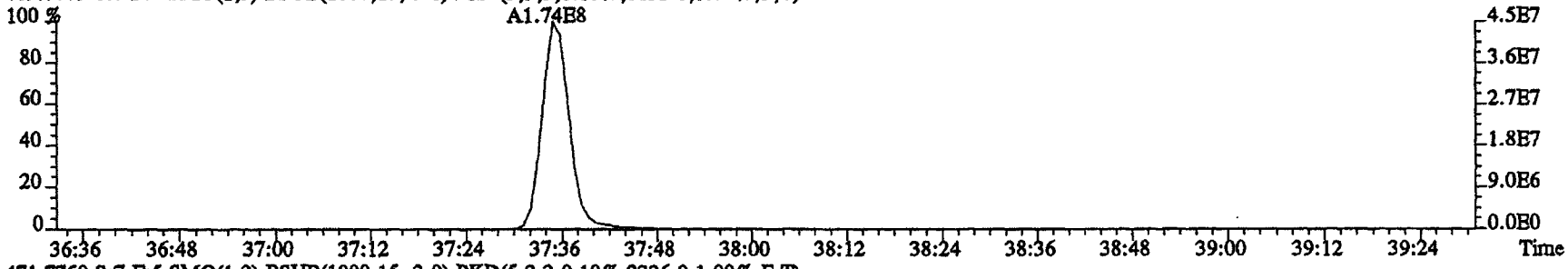
File:27JL101D5 #1-196 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13096.0,1.00%,F,T)



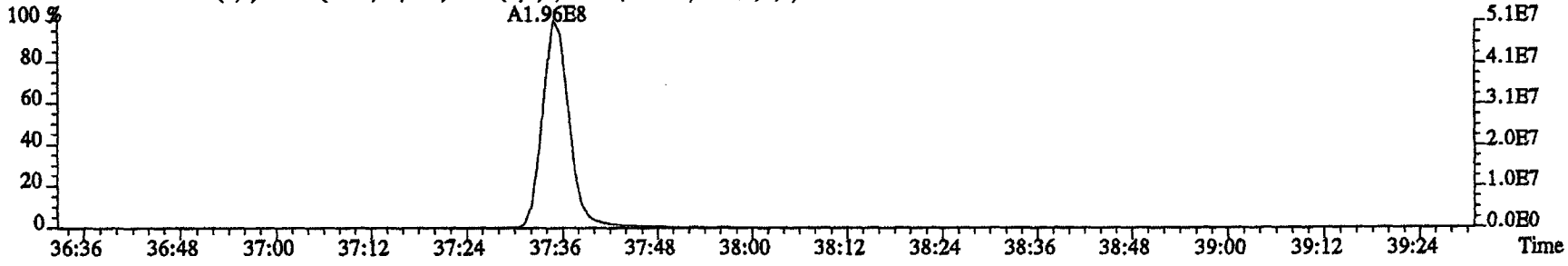
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7968.0,1.00%,F,T)

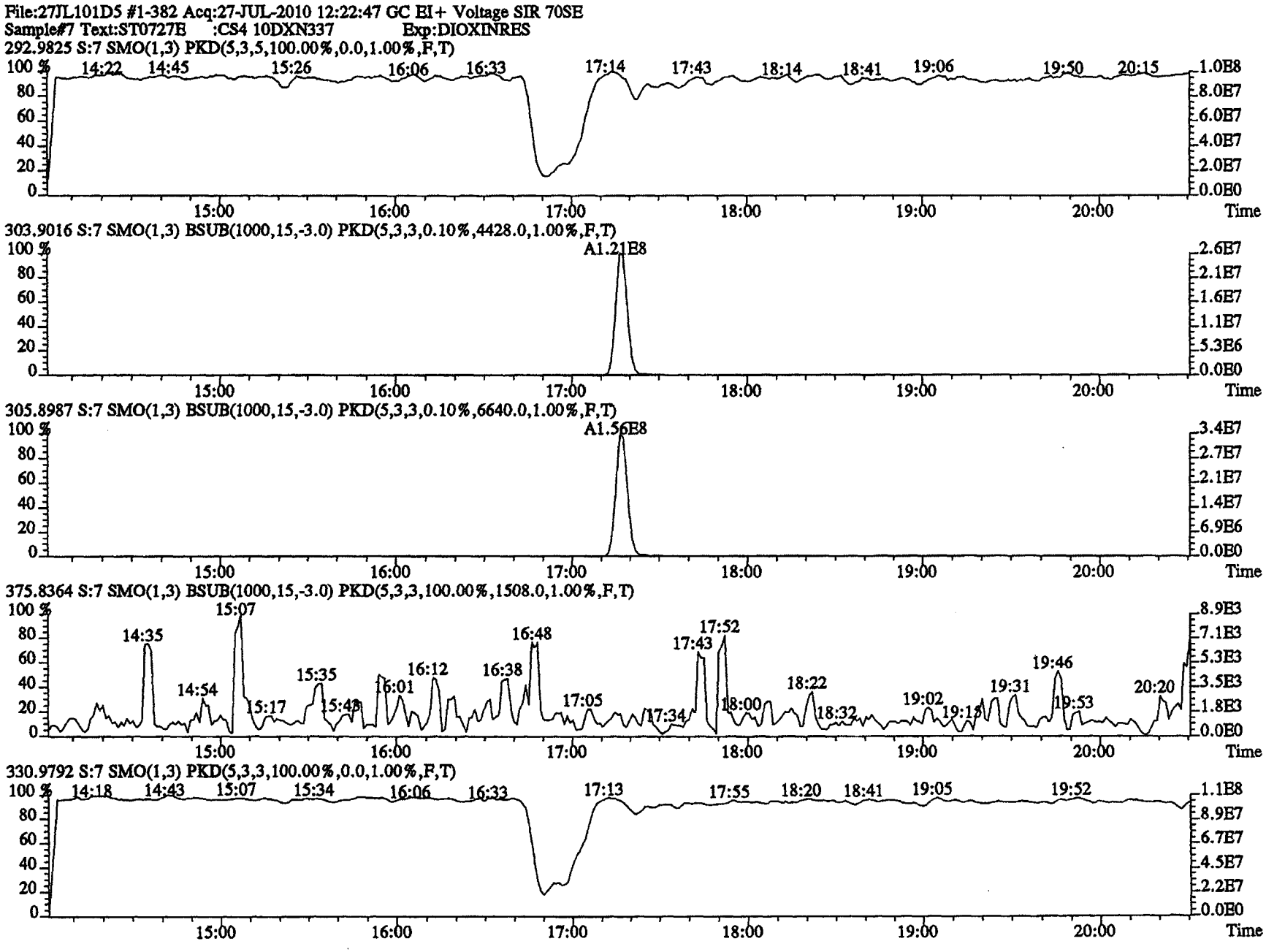


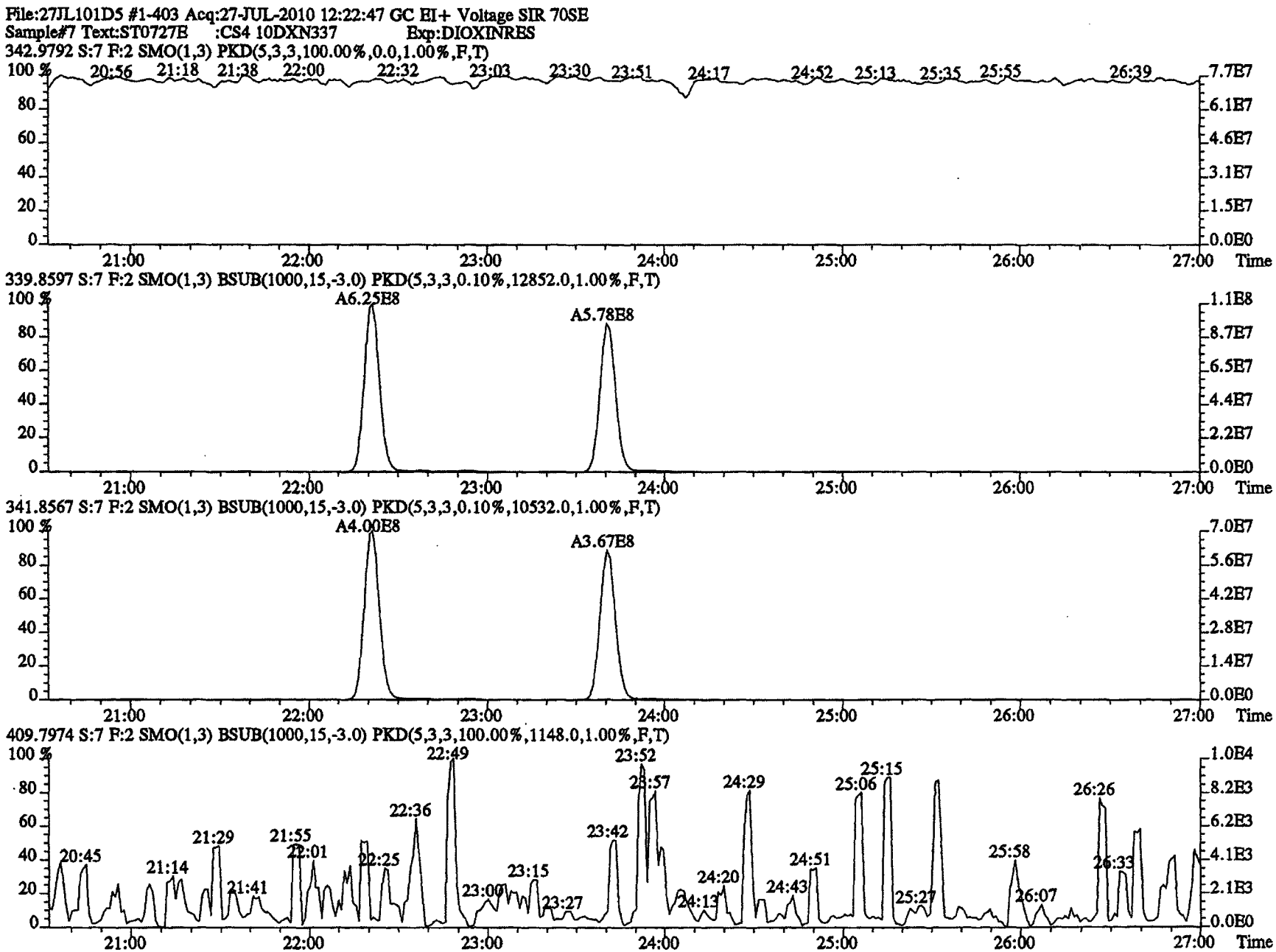
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)



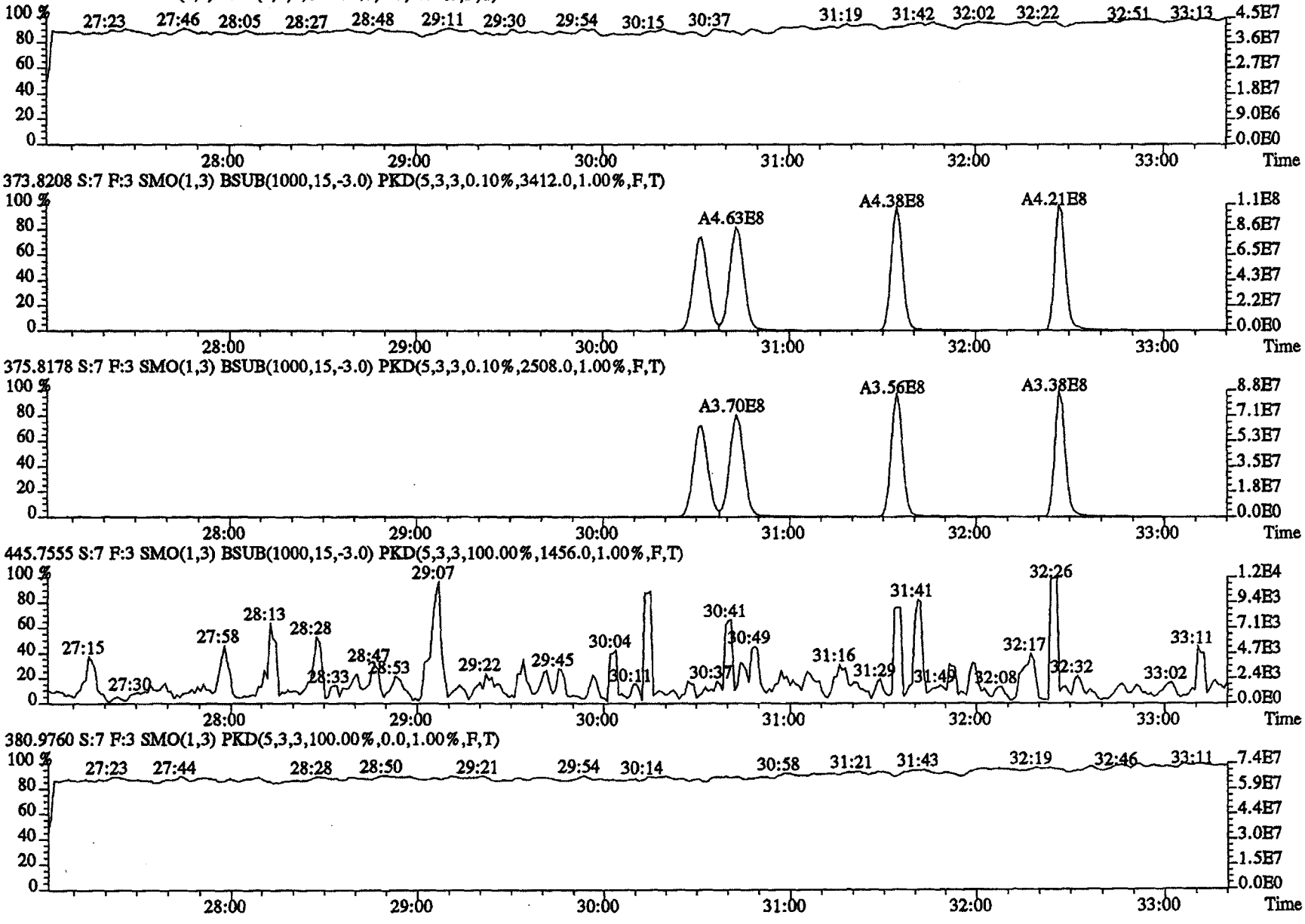
471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2336.0,1.00%,F,T)



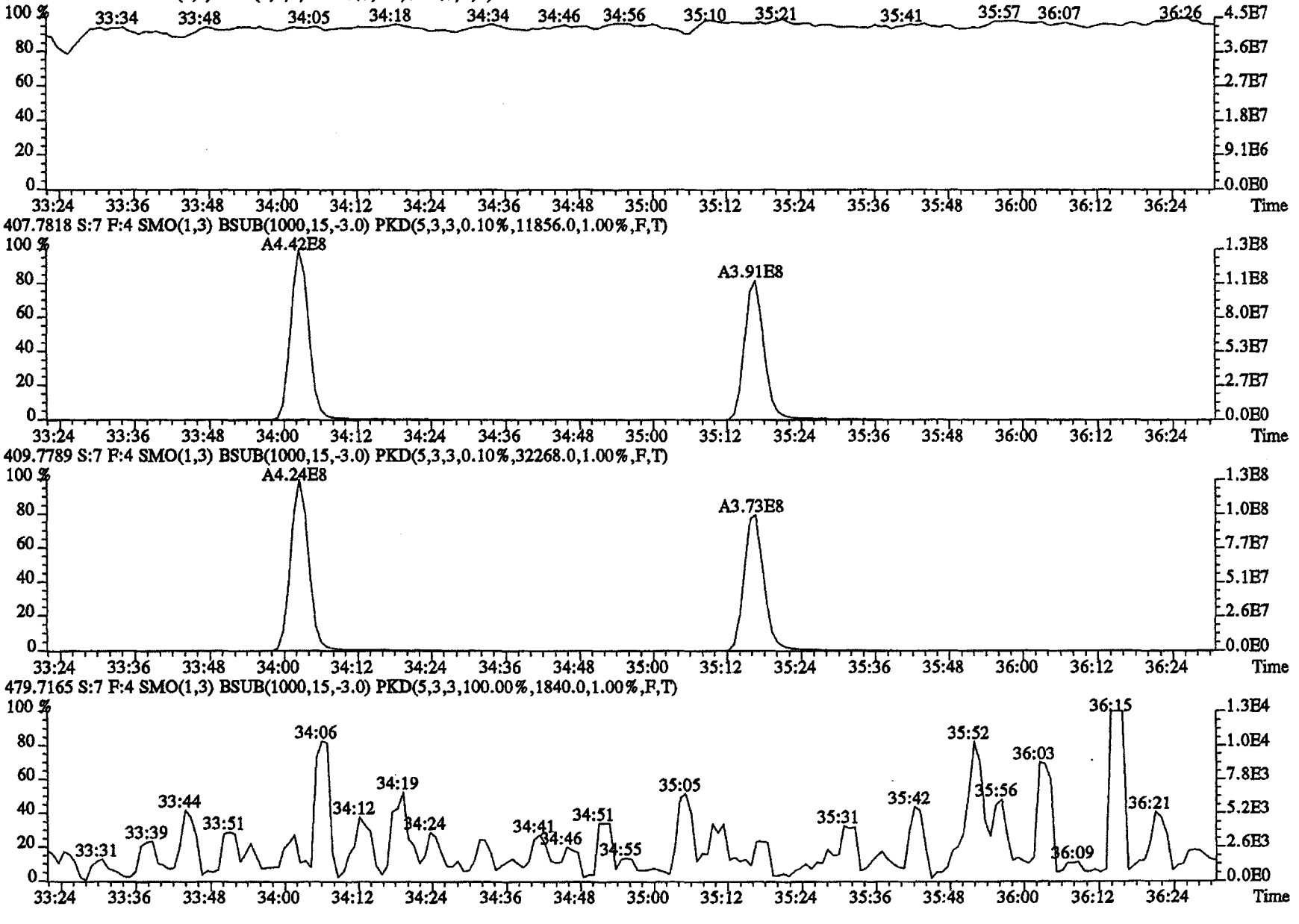

File:27JL101D5 #1-382 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4428.0,1.00%,F,T)
A1.21E8
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6640.0,1.00%,F,T)
A1.56E8
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1508.0,1.00%,F,T)
330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
Time



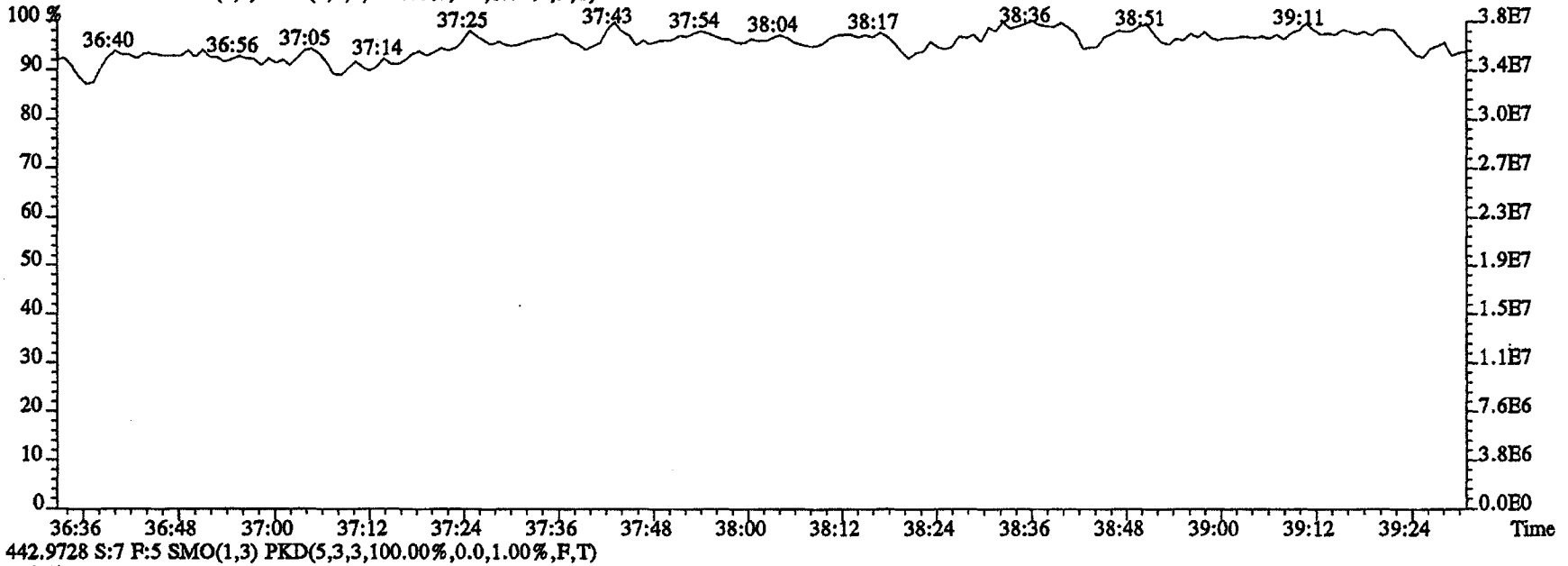
File:27JL101D5 #1-406 Acq:27-JUL-2010 12:22:47 GC HI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



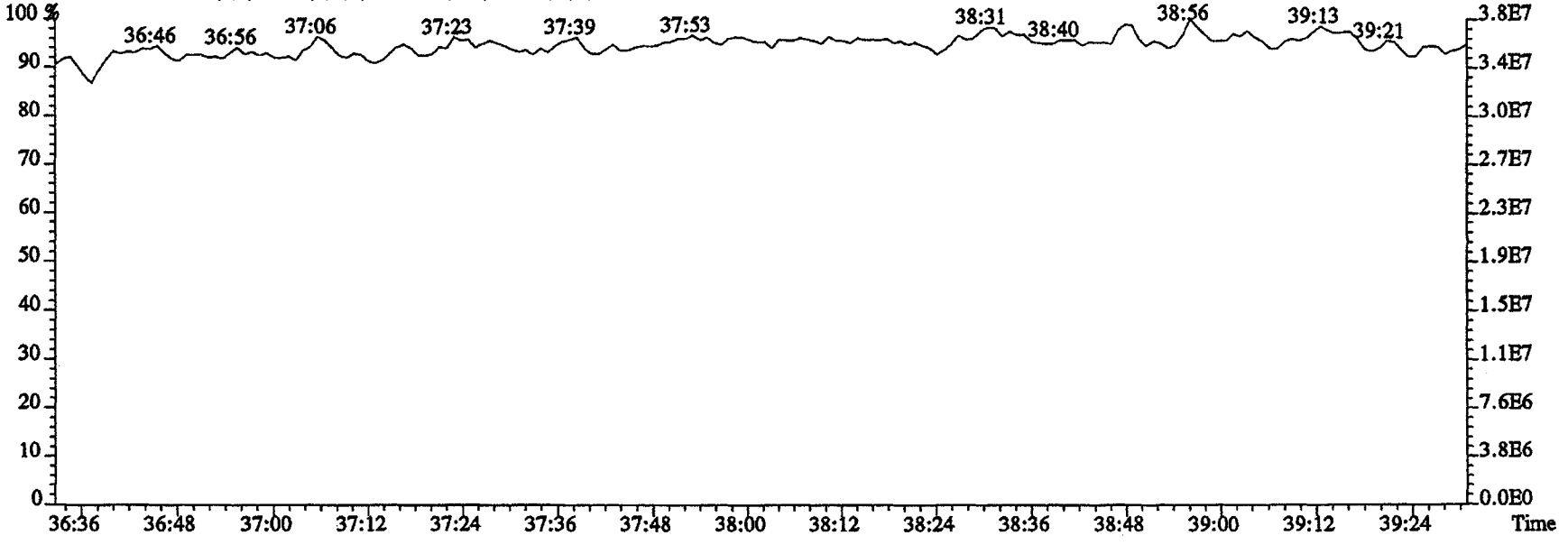
File:27JL101D5 #1-215 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES



File:27JL101D5 #1-196 Acq:27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

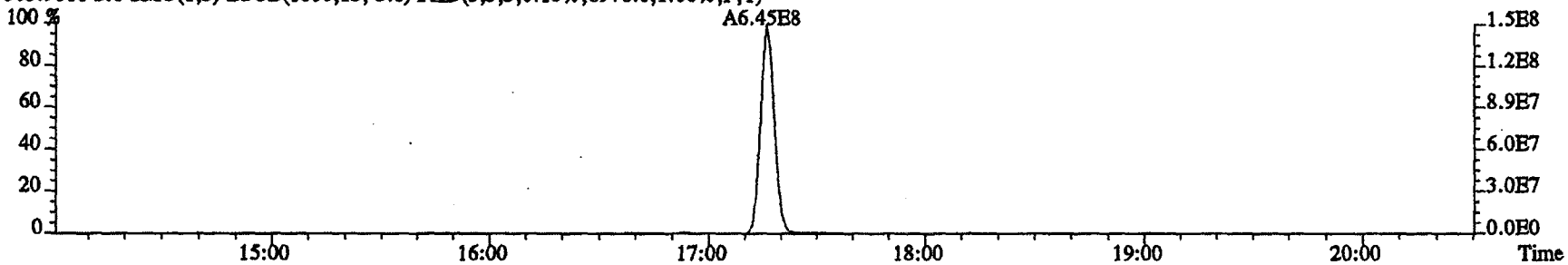


442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

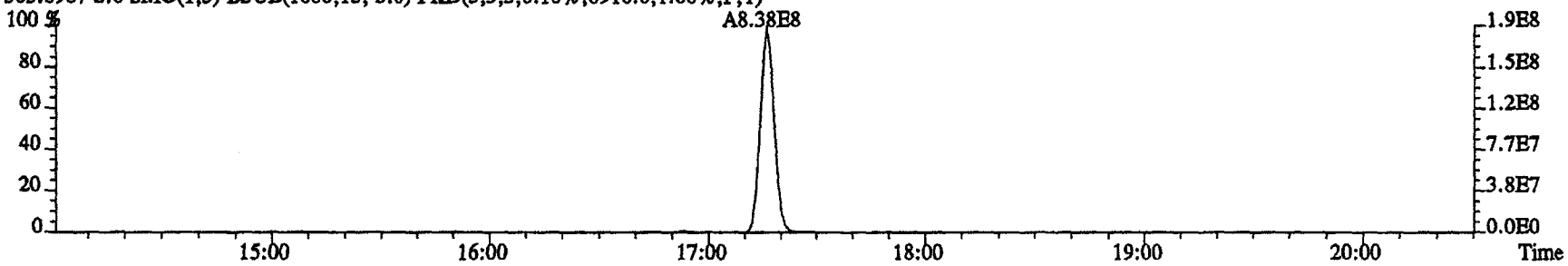


File:27JL101D5 #1-382 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

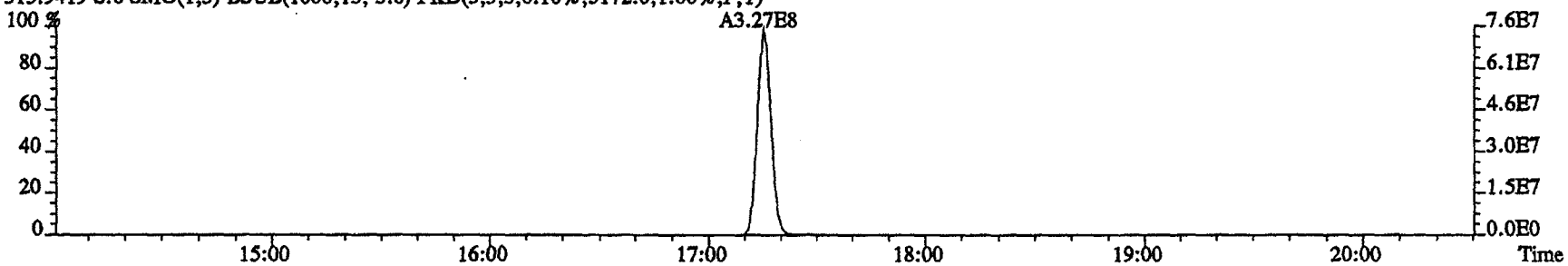
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6976.0,1.00%,F,T)



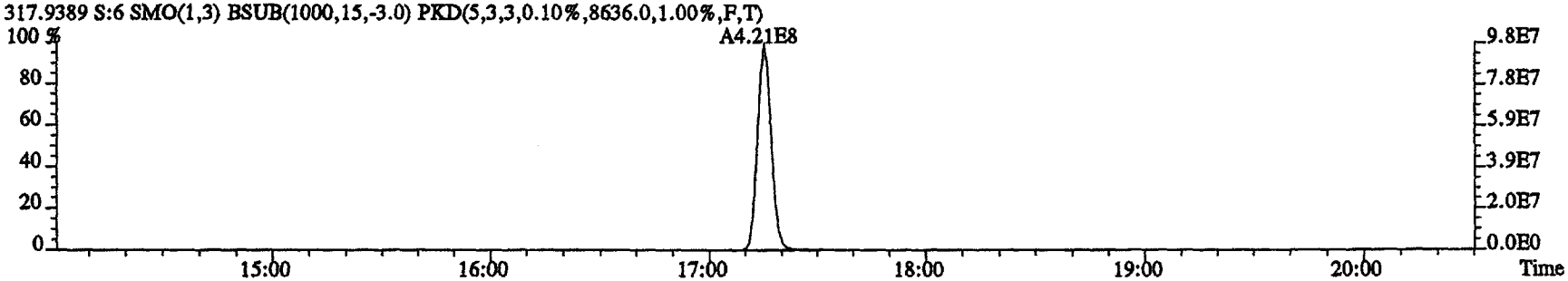
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8916.0,1.00%,F,T)



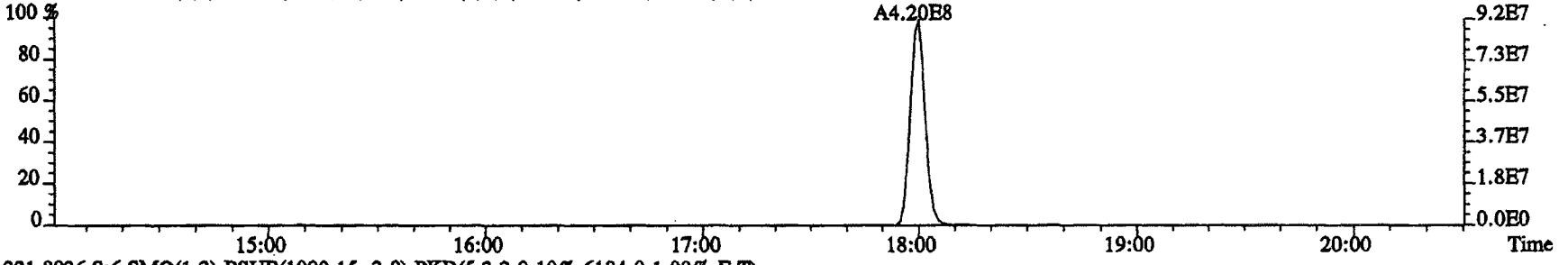
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5172.0,1.00%,F,T)

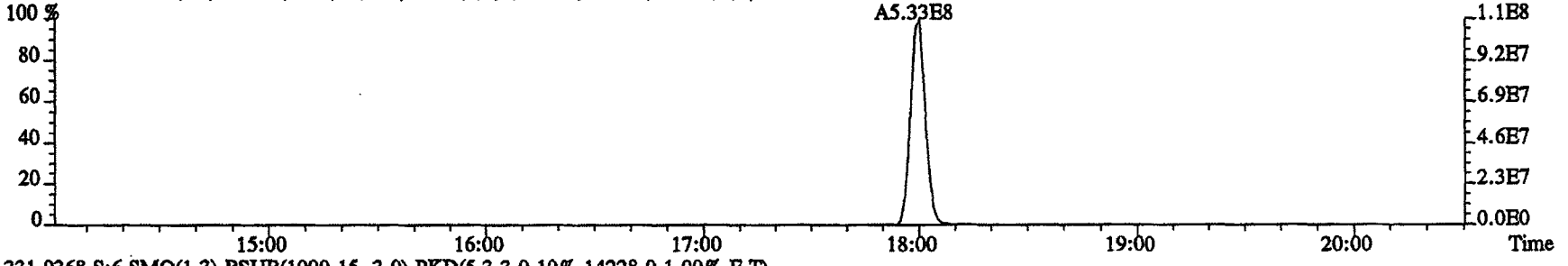


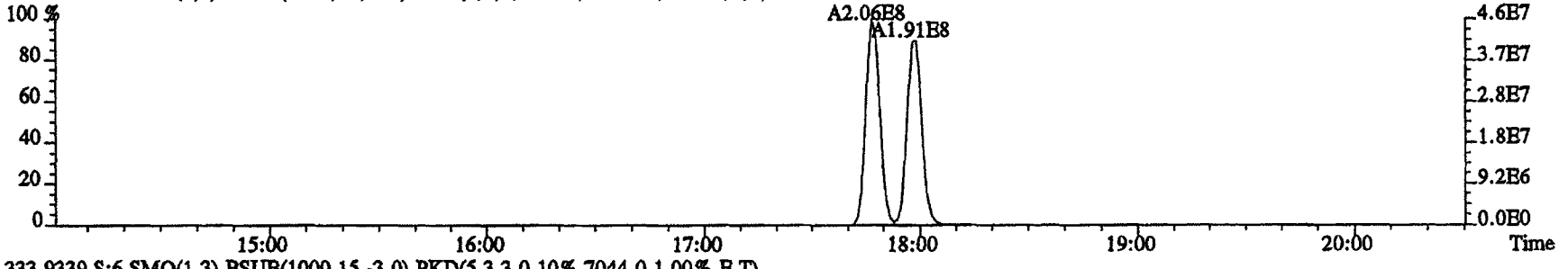
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8636.0,1.00%,F,T)

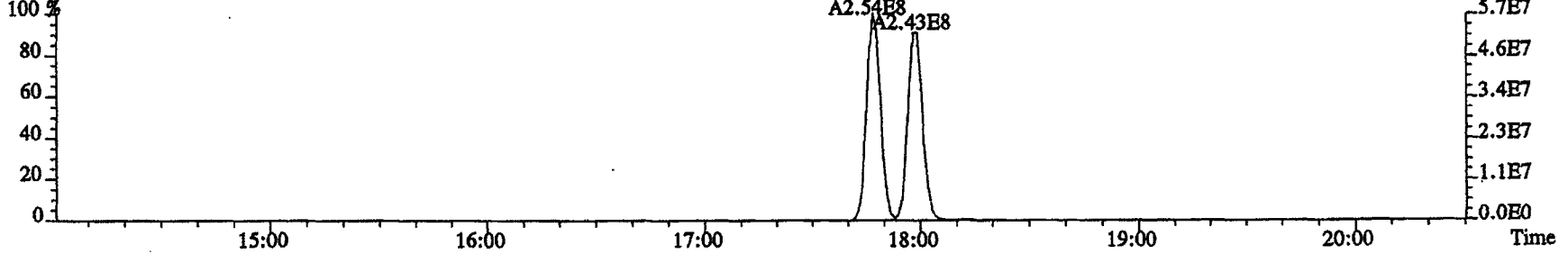


File:27JL101D5 #1-382 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

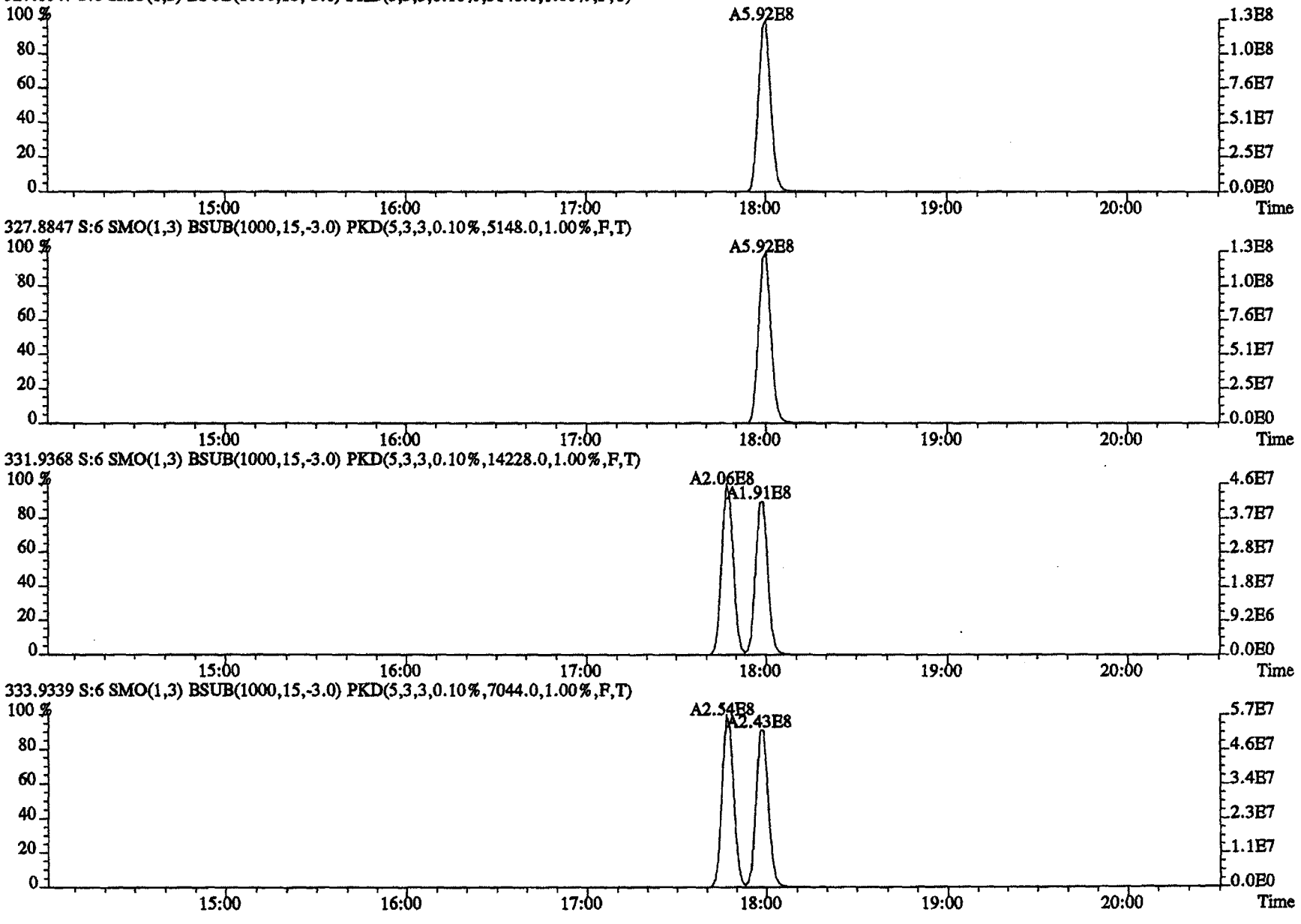






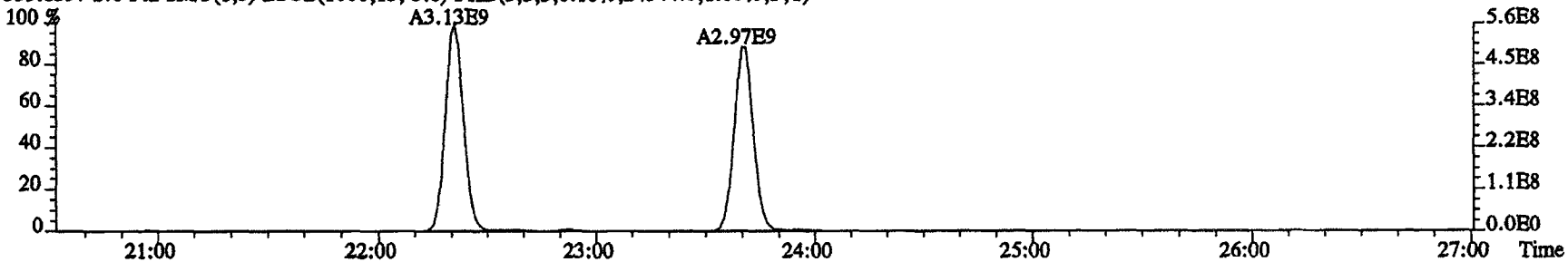


File:27JL101D5 #1-382 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

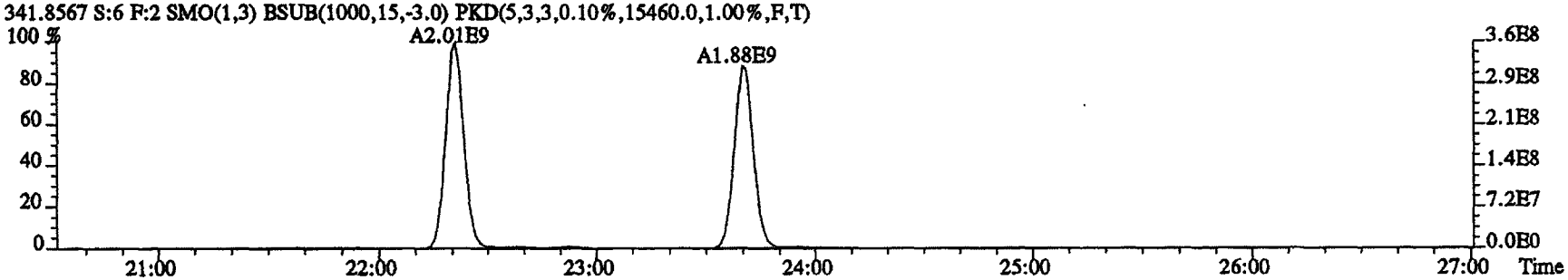


File:27JL101D5 #1-404 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

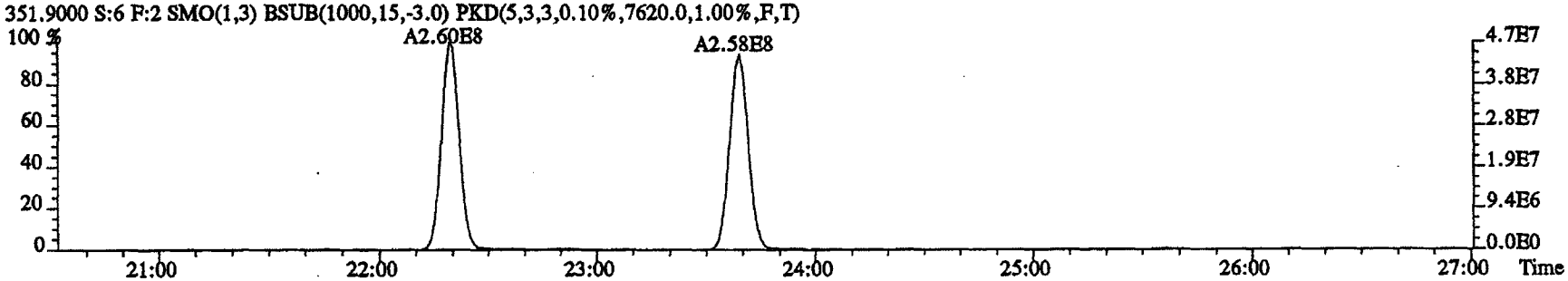
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24544.0,1.00%,F,T)



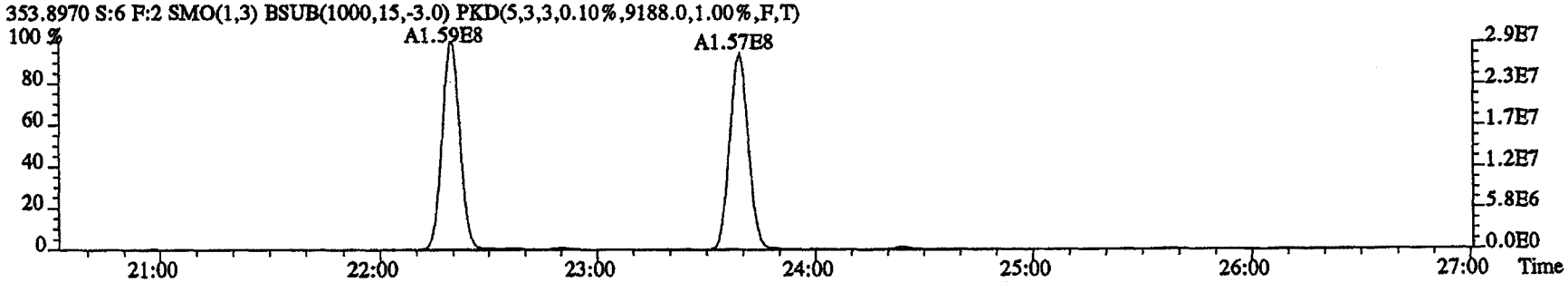
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15460.0,1.00%,F,T)

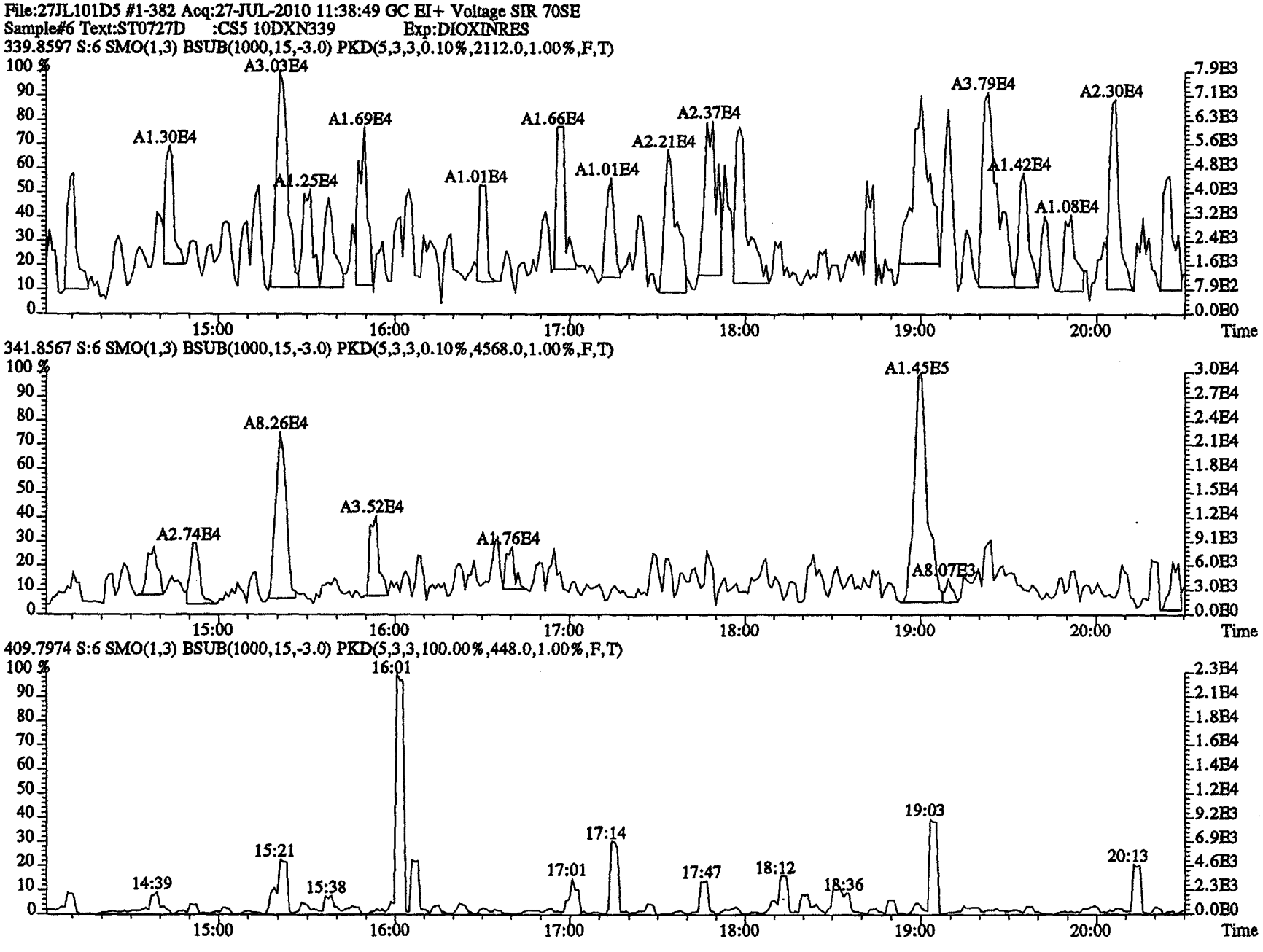


351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7620.0,1.00%,F,T)

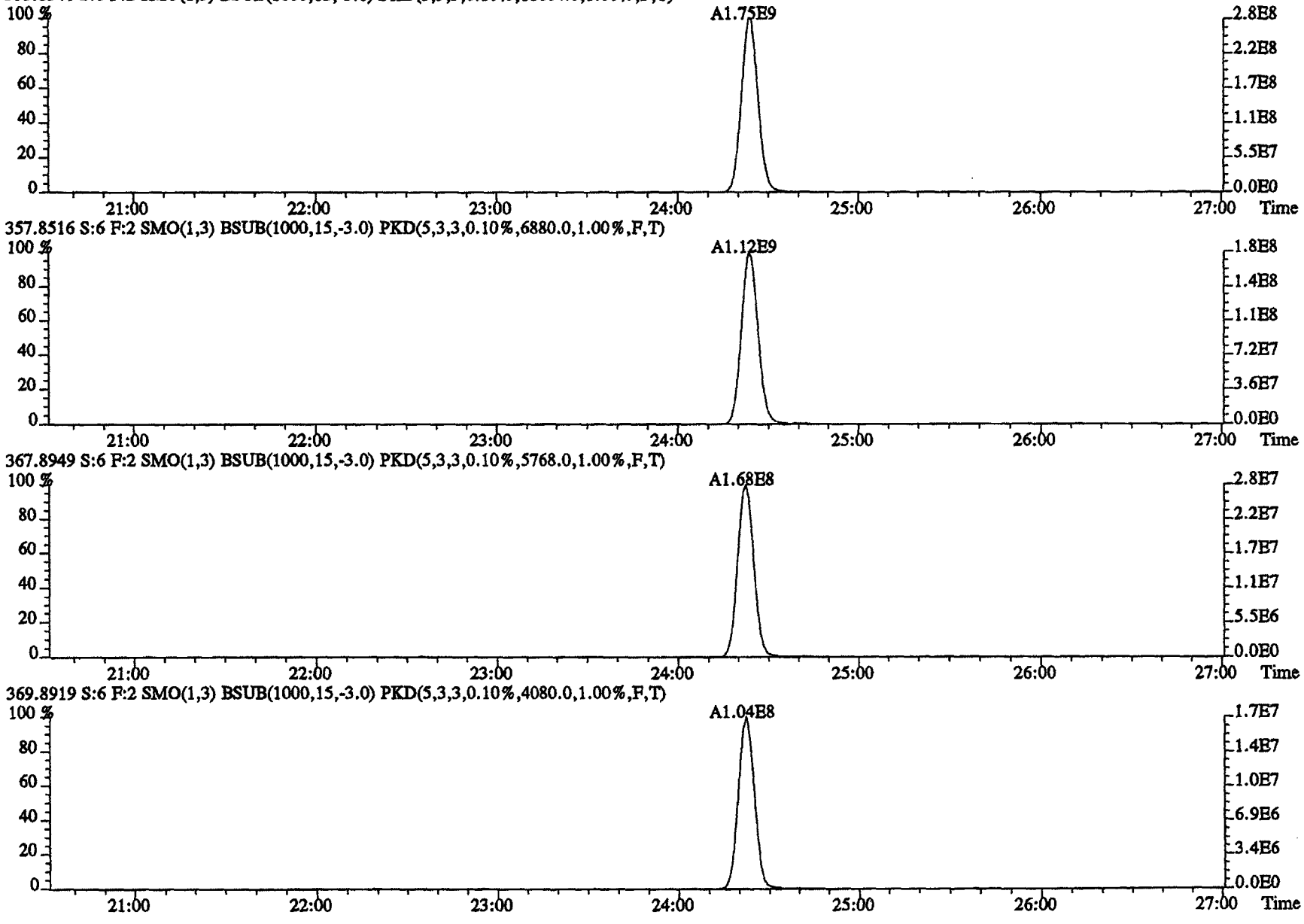


353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9188.0,1.00%,F,T)

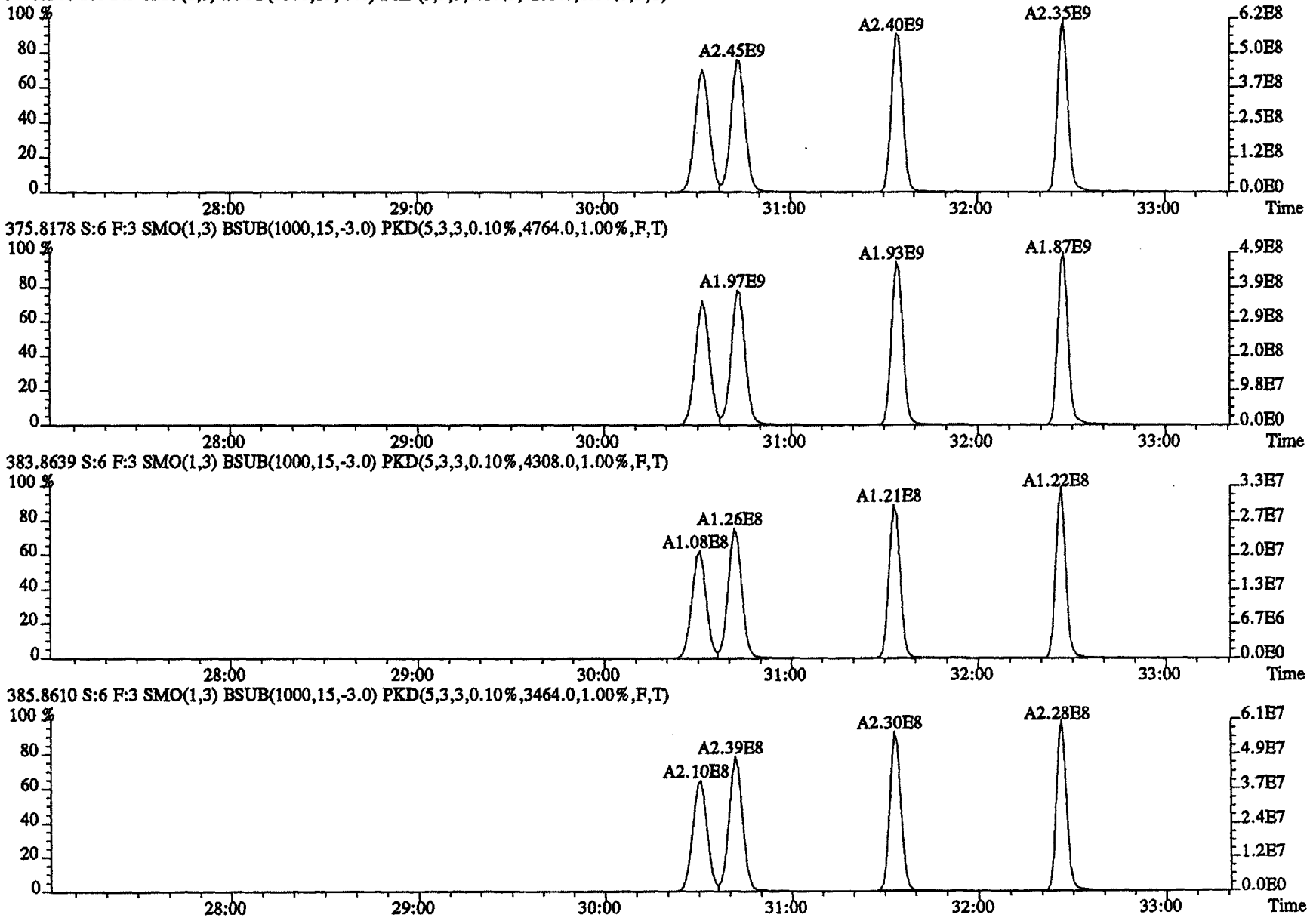




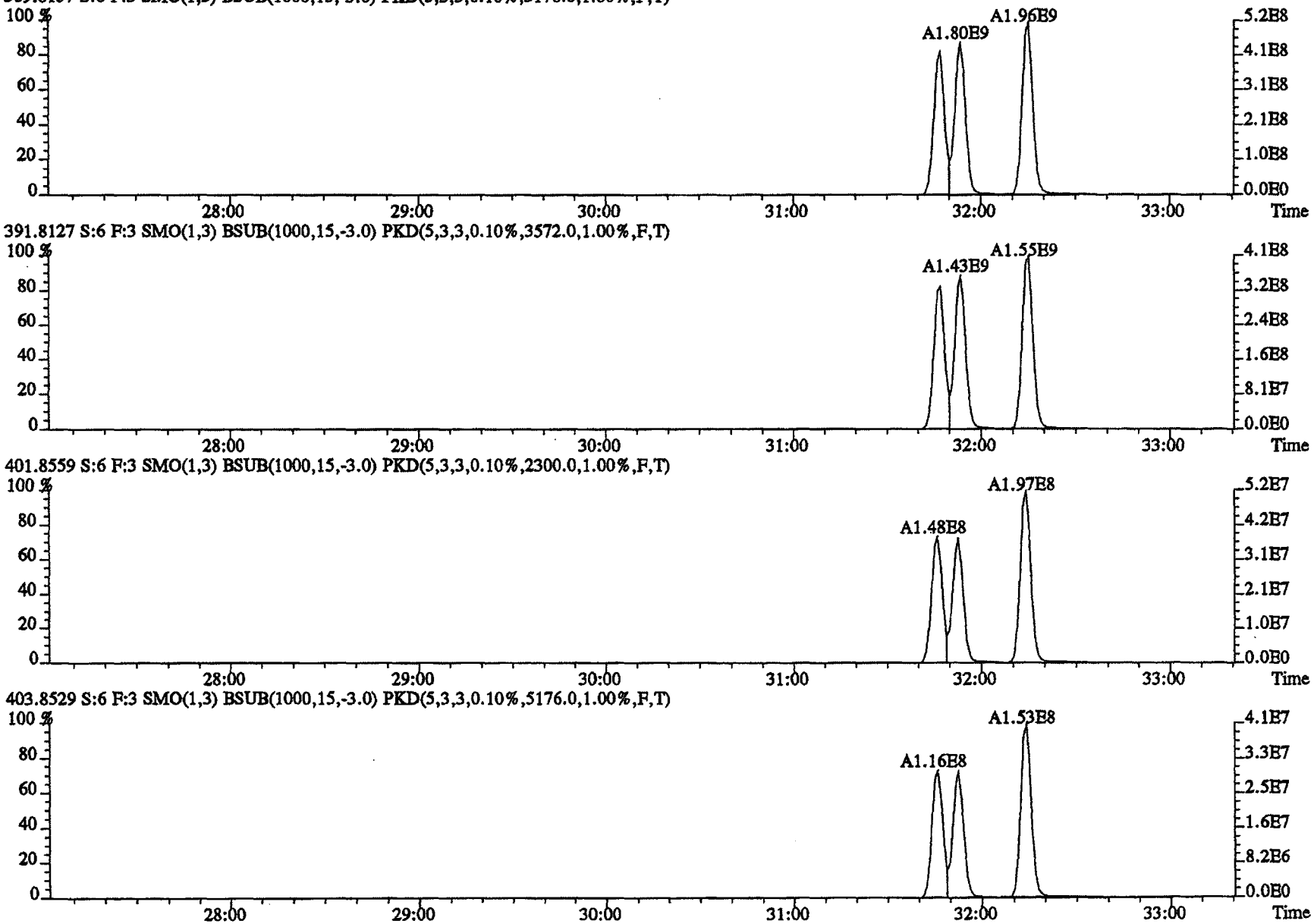
File:27JL101D5 #1-404 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES



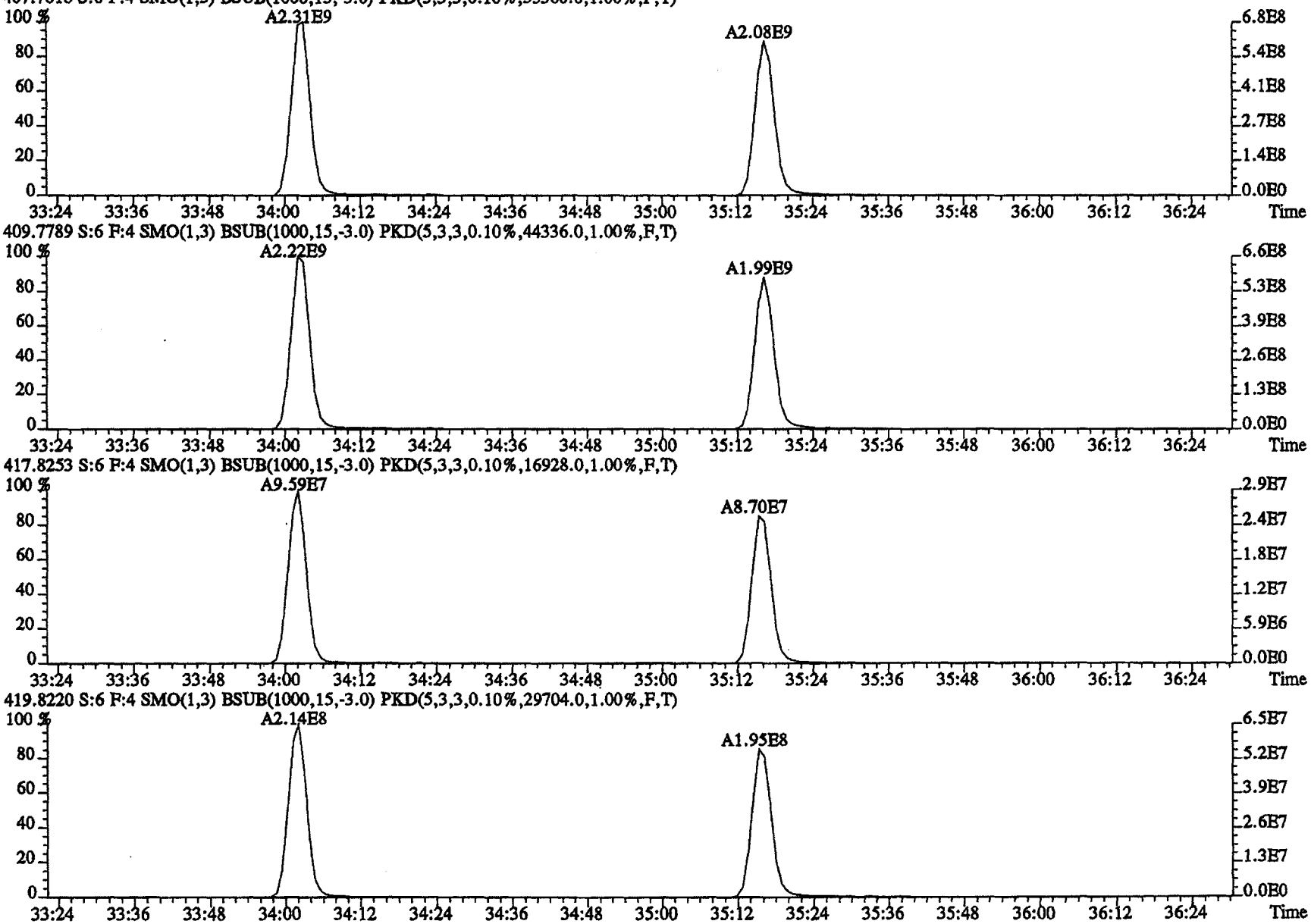
File:27JL101D5 #1-406 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES



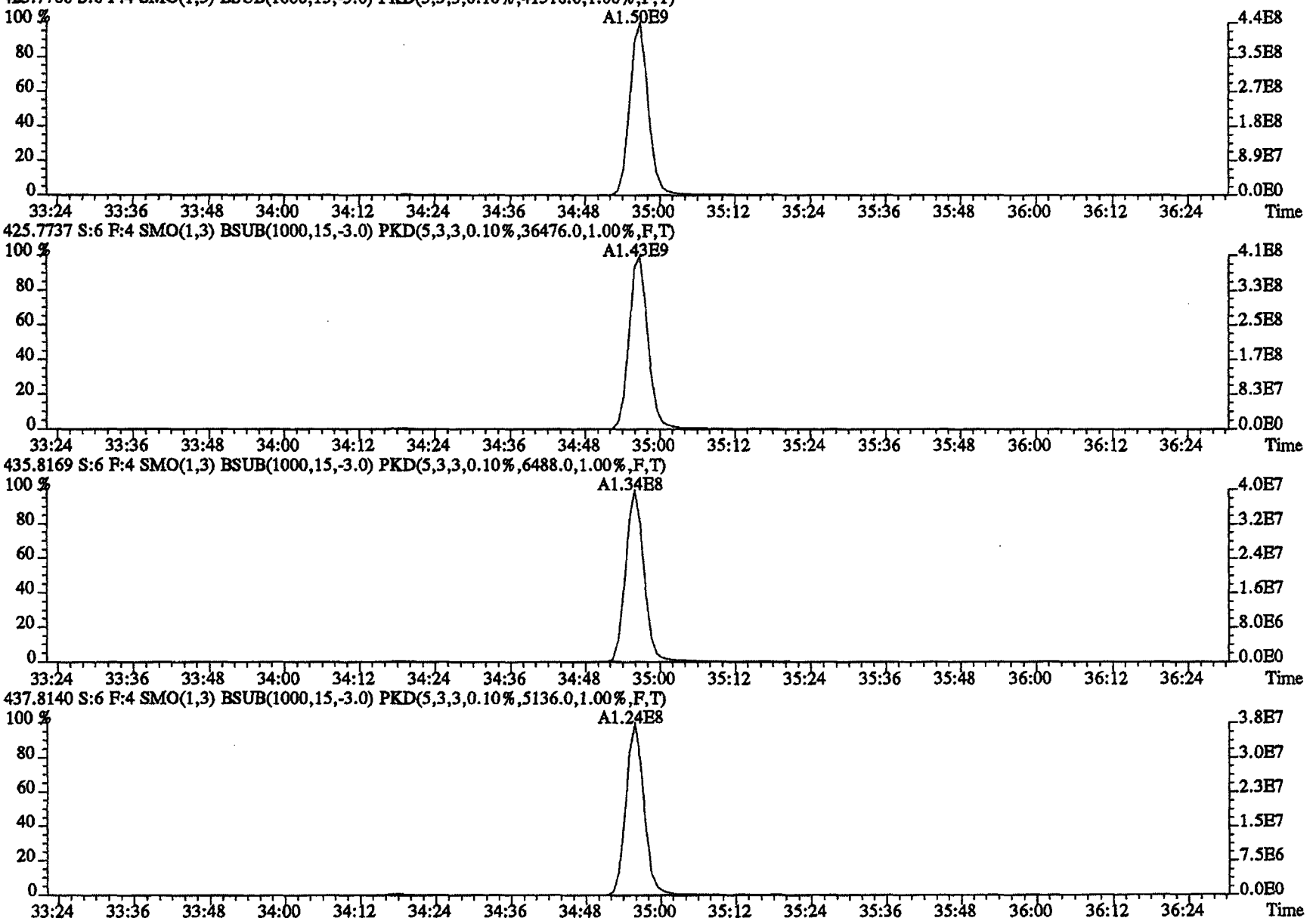
File:27JL101D5 #1-406 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES



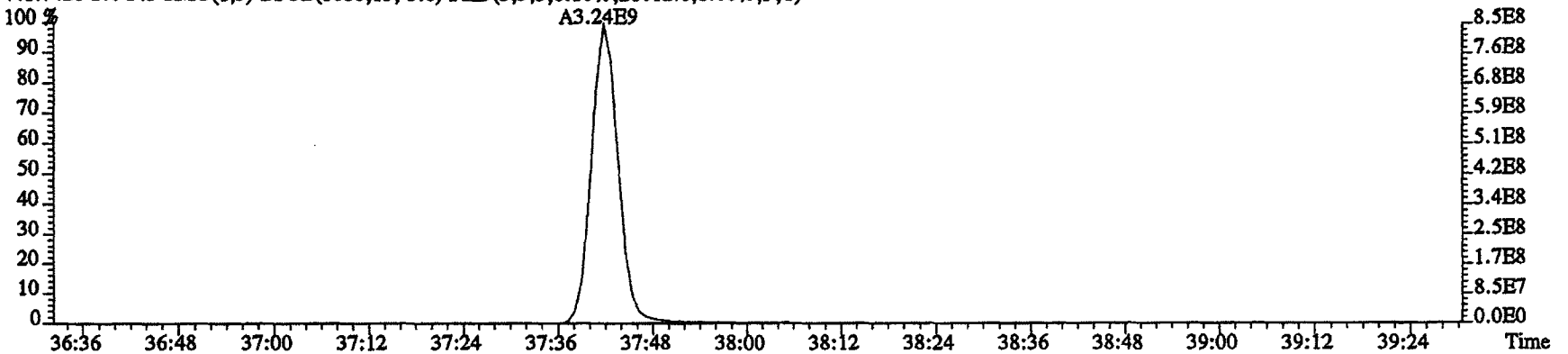
File:27JL101D5 #1-214 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES



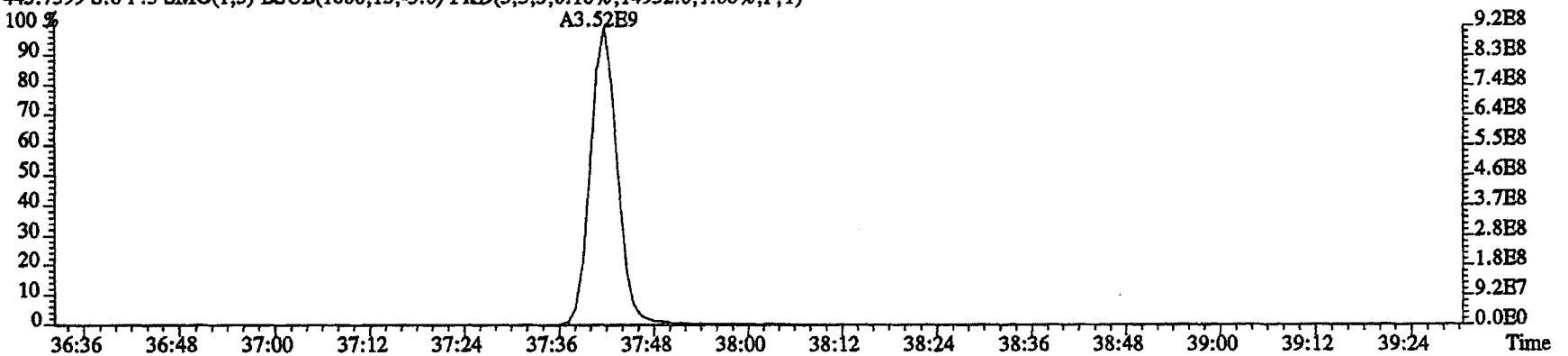
File:27JL101D5 #1-214 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES



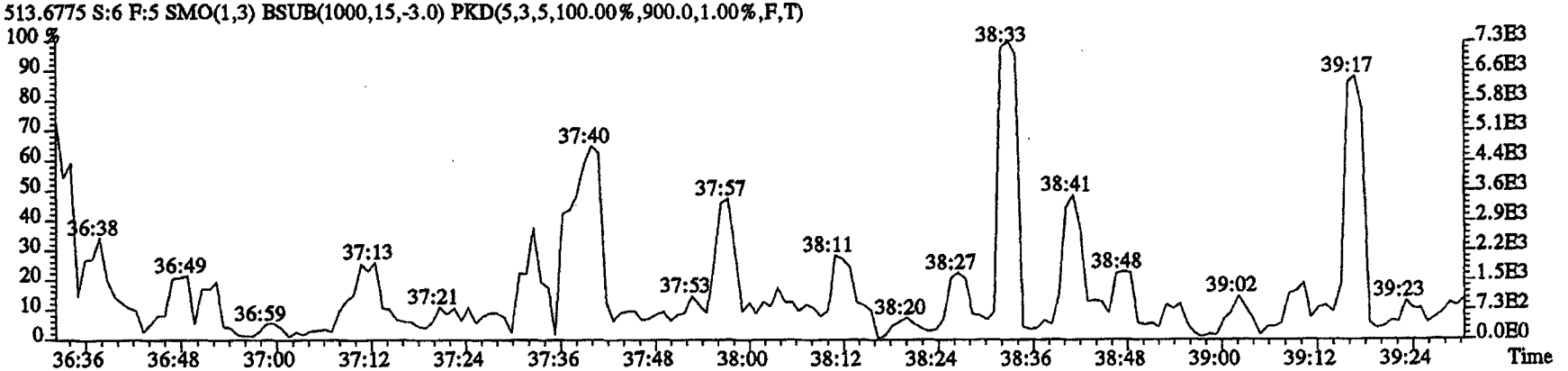
File:27JL101D5 #1-196 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21612.0,1.00%,F,T)



443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14932.0,1.00%,F,T)

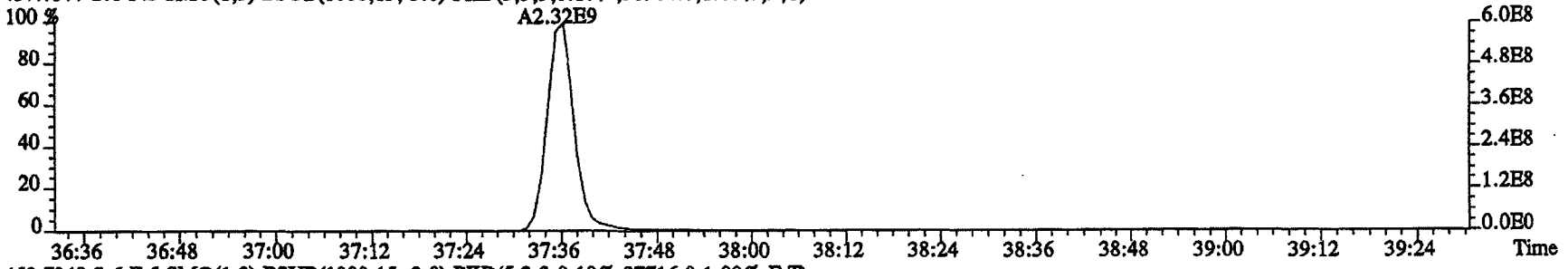


513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,900.0,1.00%,F,T)

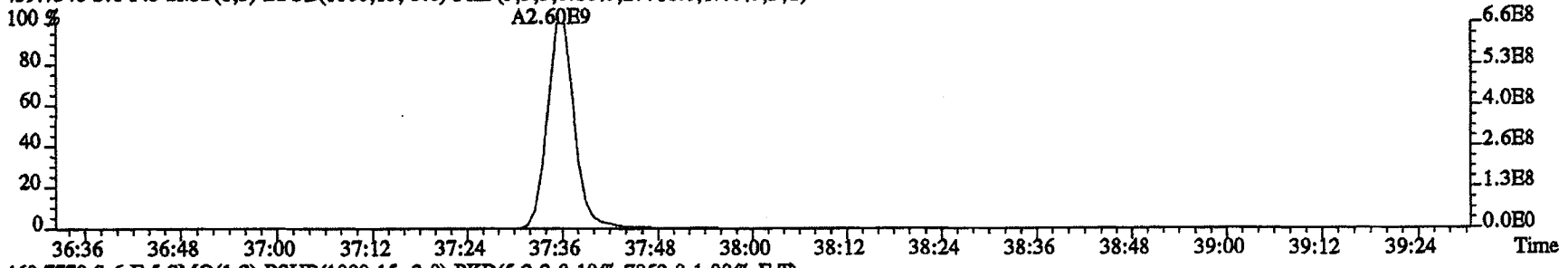


File:27JL101D5 #1-196 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

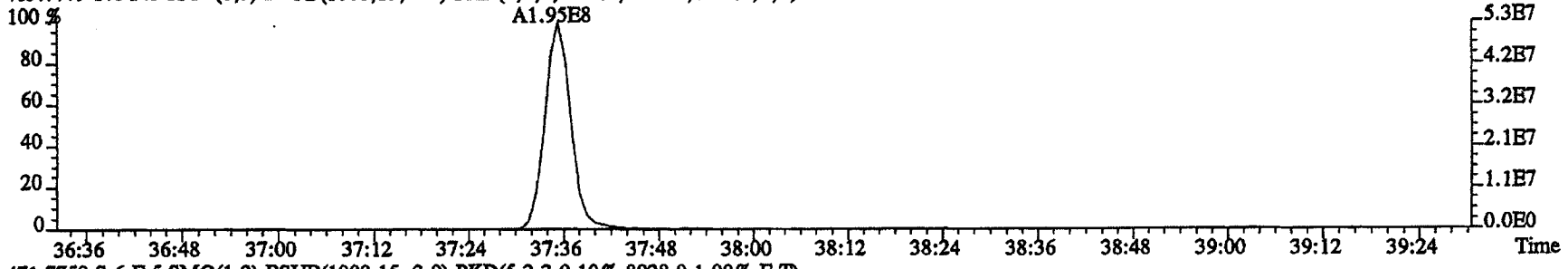
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,38984.0,1.00%,F,T)



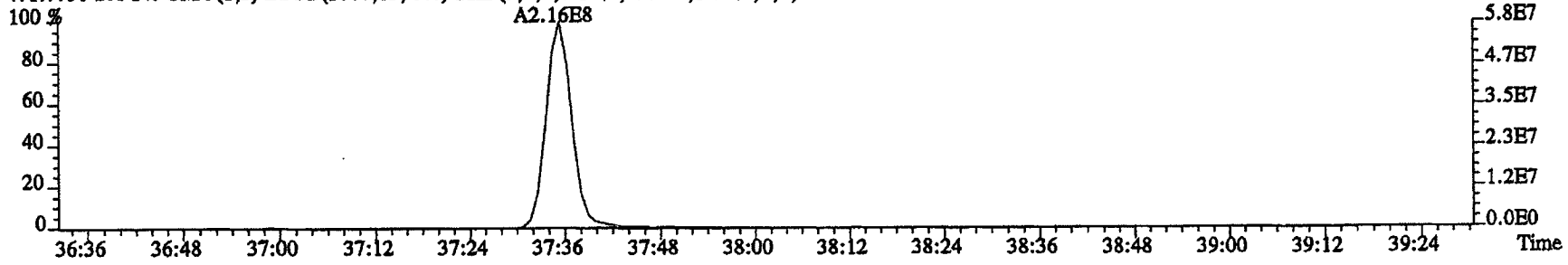
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27716.0,1.00%,F,T)



469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7852.0,1.00%,F,T)

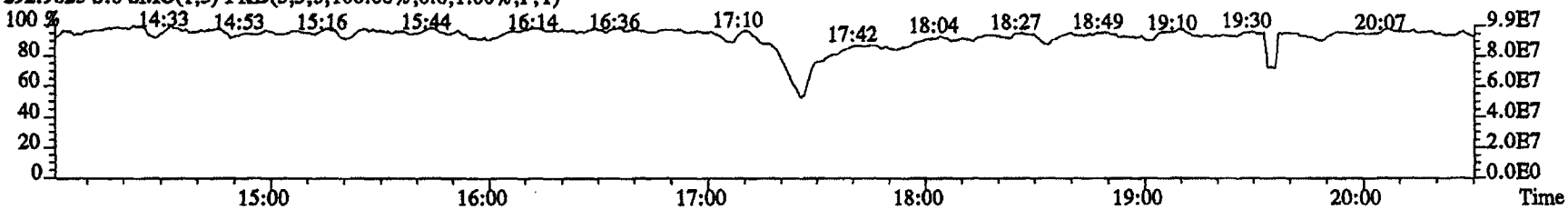


471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8928.0,1.00%,F,T)

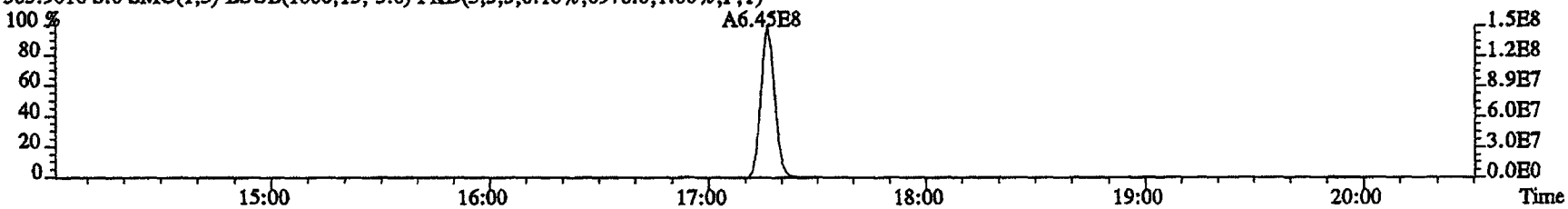


File:27JL101D5 #1-382 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

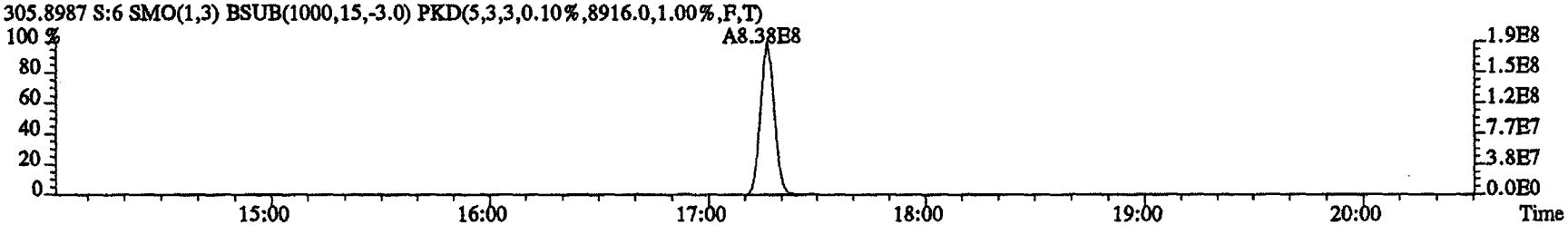
292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



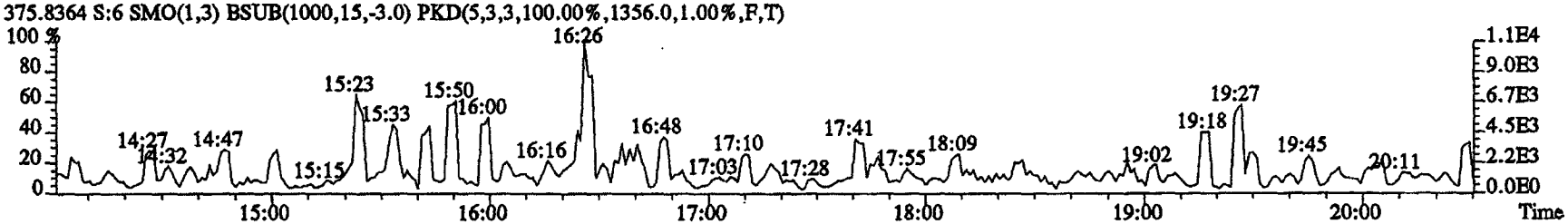
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6976.0,1.00%,F,T)



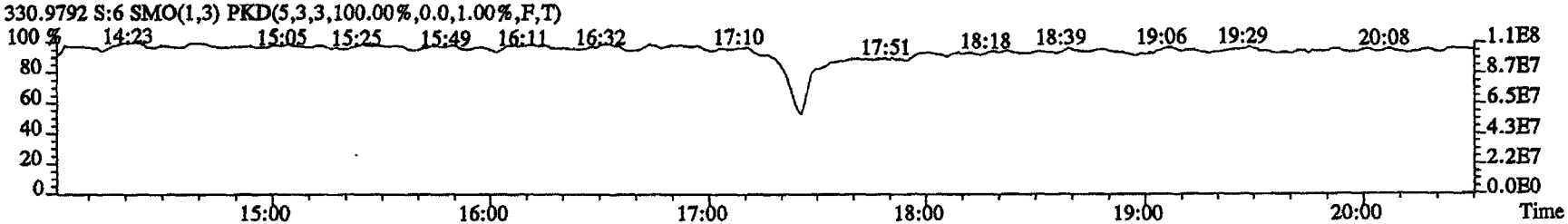
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8916.0,1.00%,F,T)

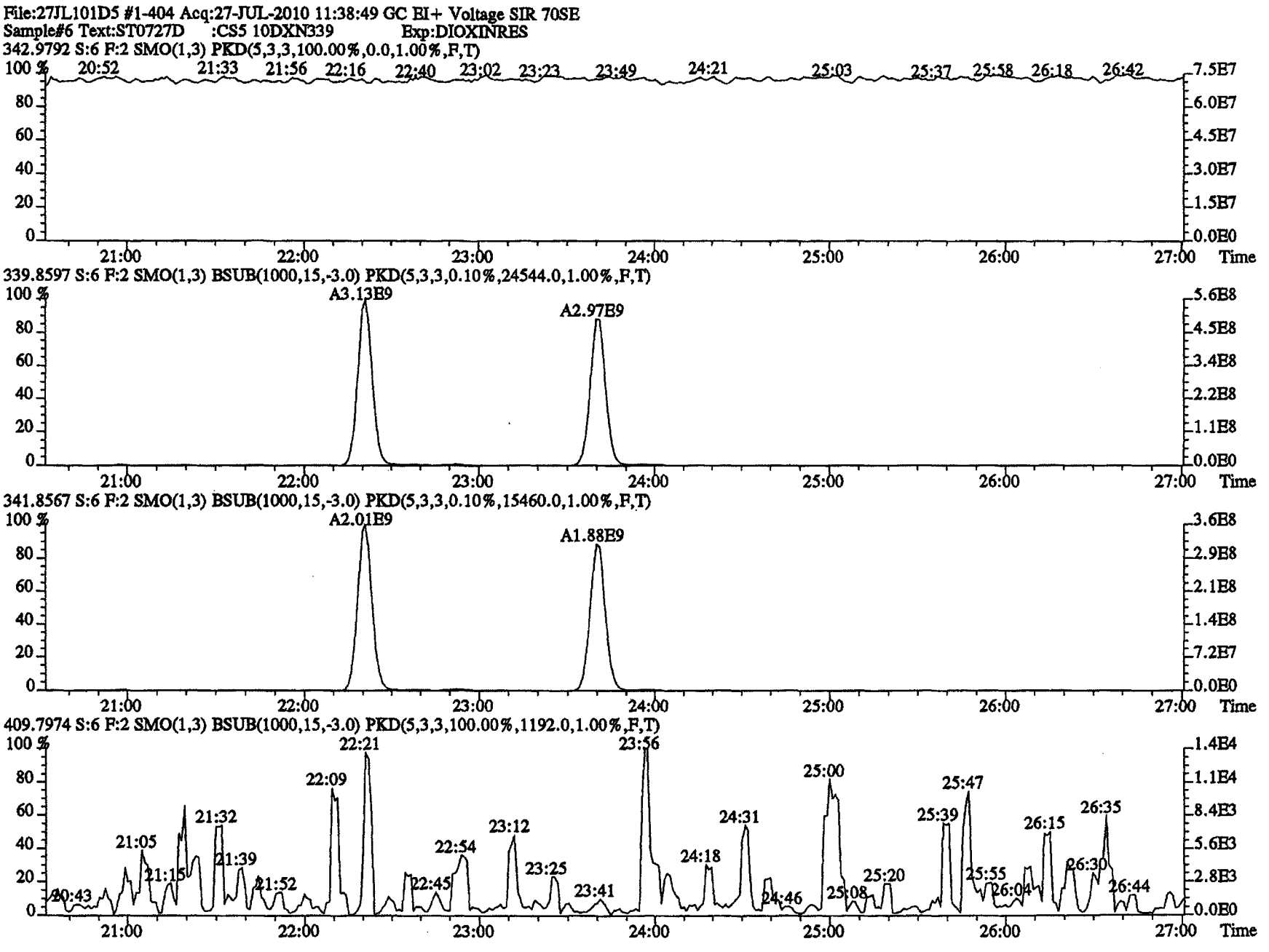


375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1356.0,1.00%,F,T)



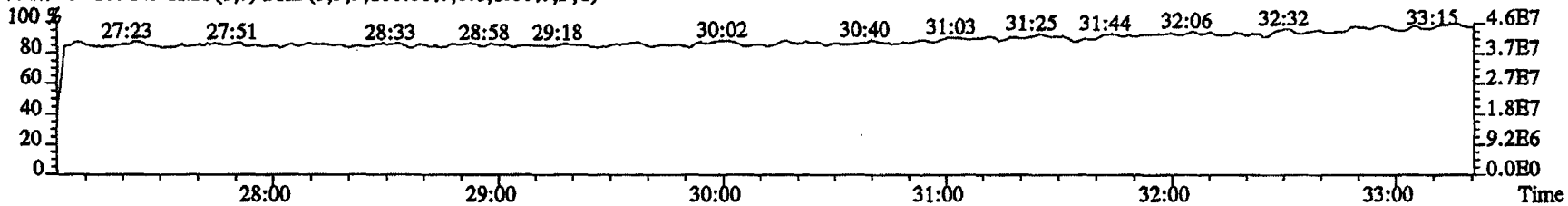
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



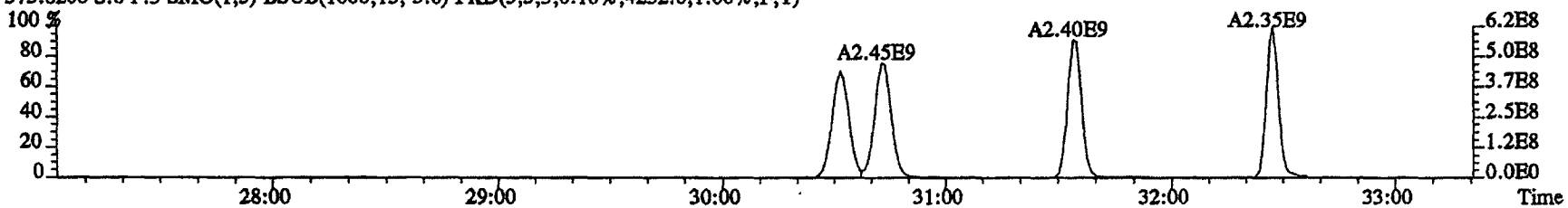

File:27JL101D5 #1-404 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24544.0,1.00%,F,T)
A3.13E9
A2.97E9
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15460.0,1.00%,F,T)
A2.01E9
A1.88E9
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1192.0,1.00%,F,T)
Time

File:27JL101D5 #1-406 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES

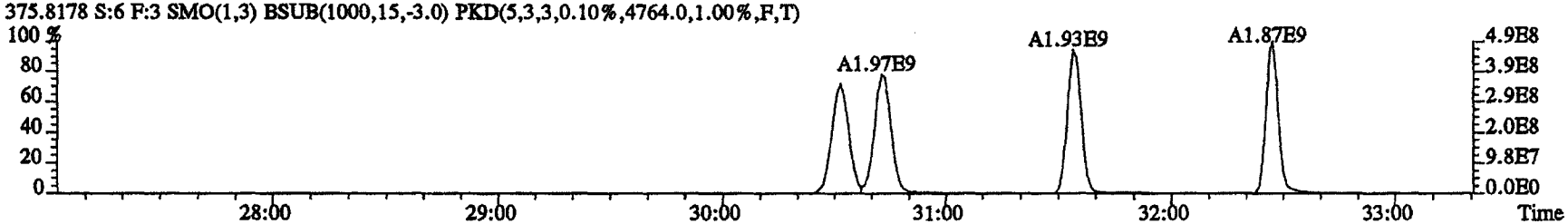
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



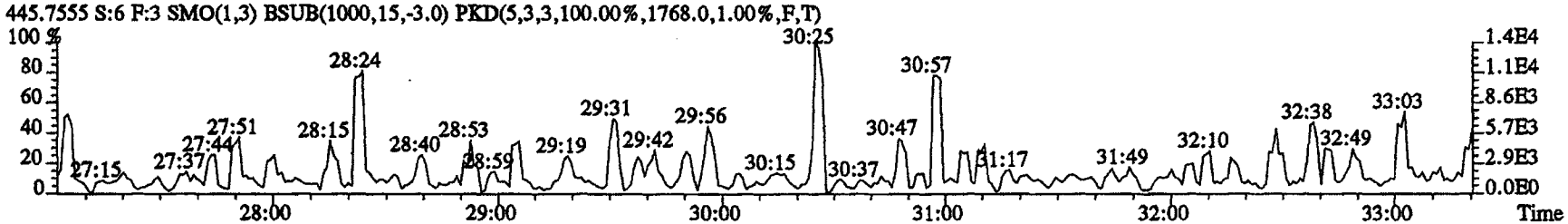
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4252.0,1.00%,F,T)



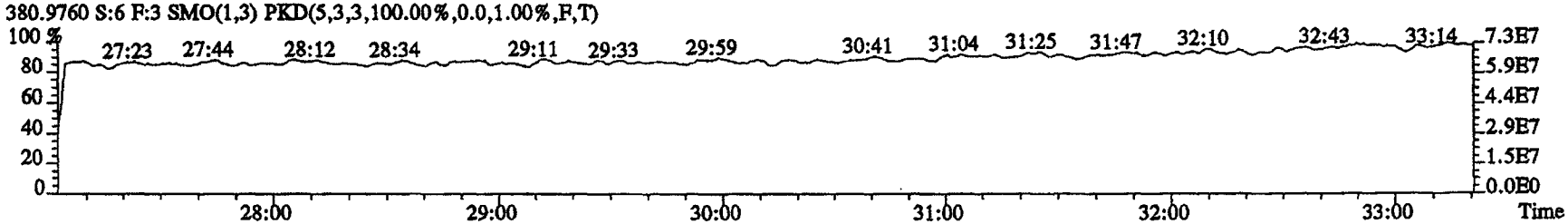
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4764.0,1.00%,F,T)

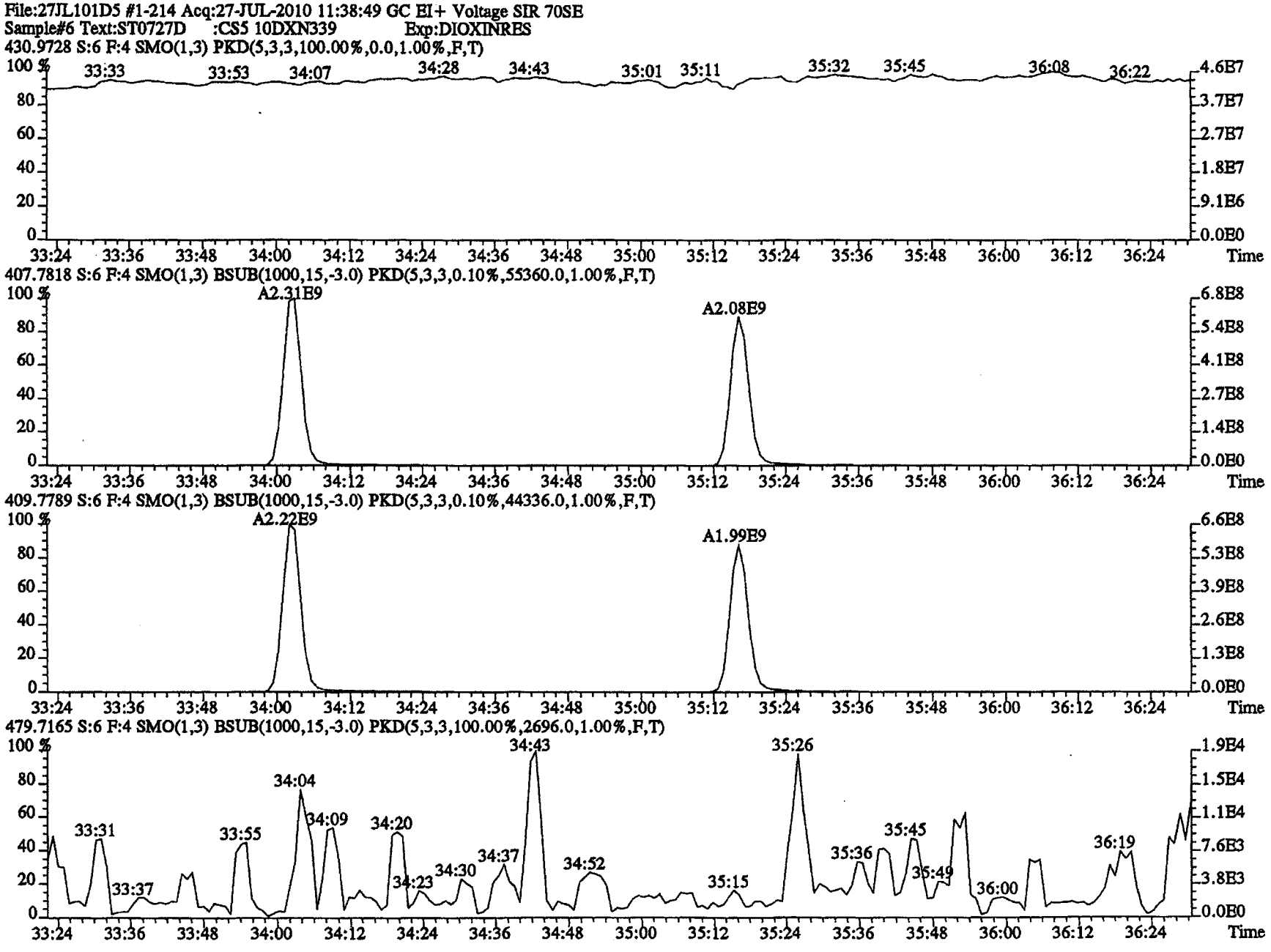


445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1768.0,1.00%,F,T)

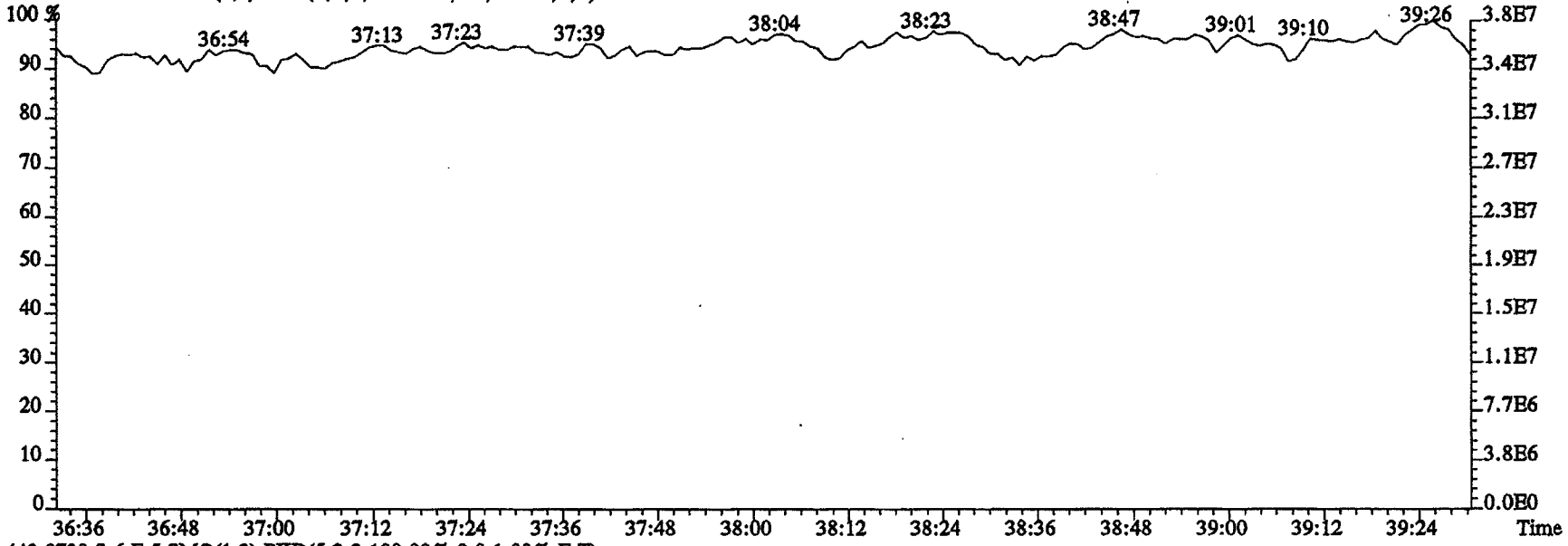


380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

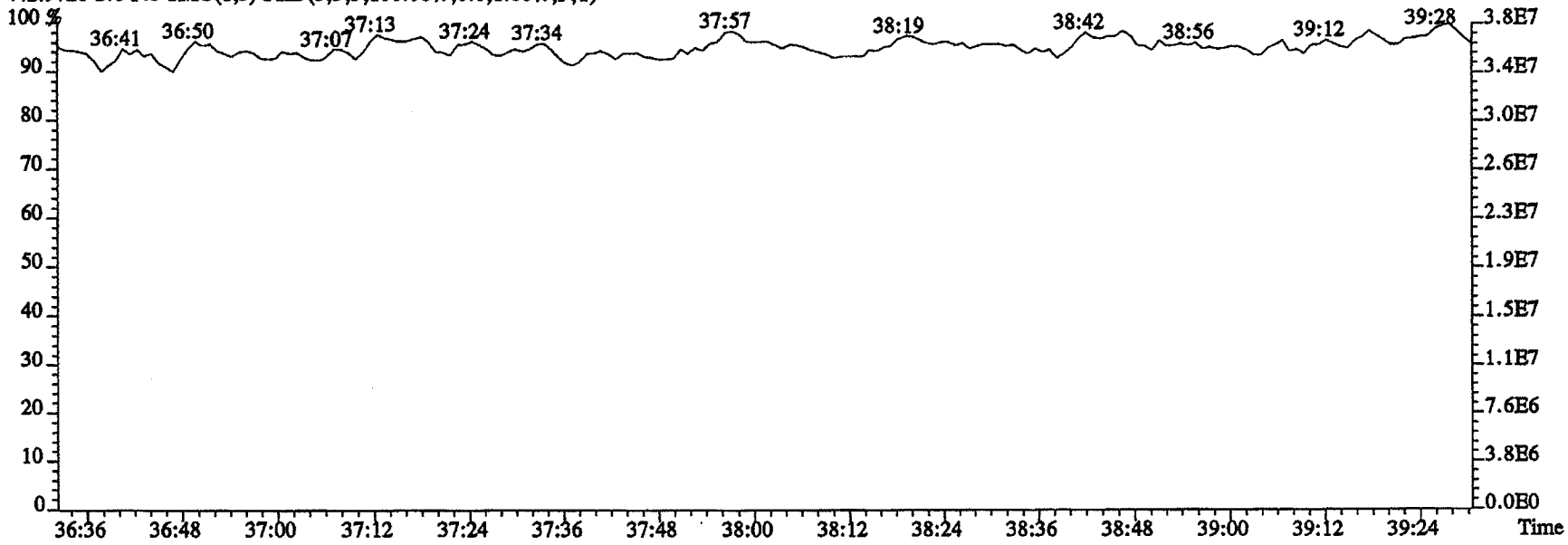




File:27JL101D5 #1-196 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0727D :CS5 10DXN339 Exp:DIOXINRES
454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

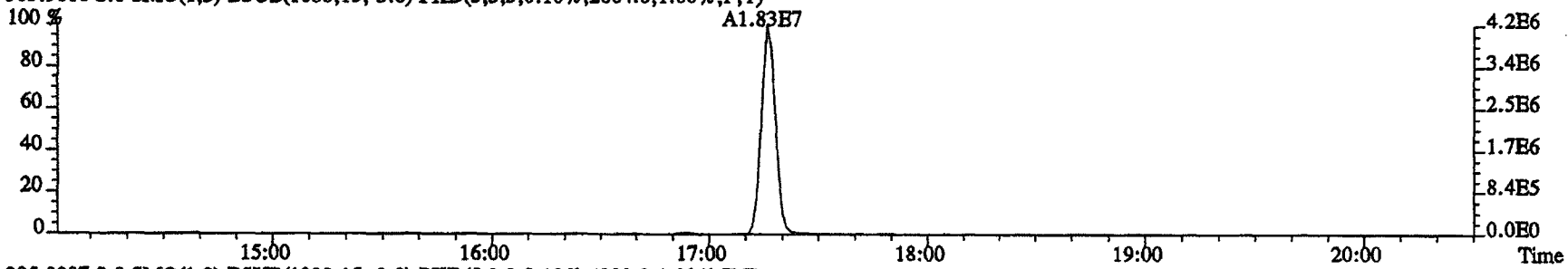


442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

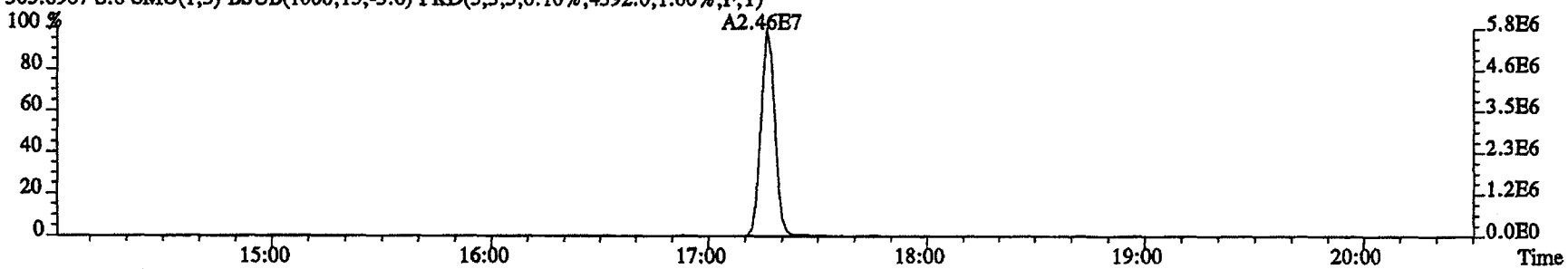


File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES

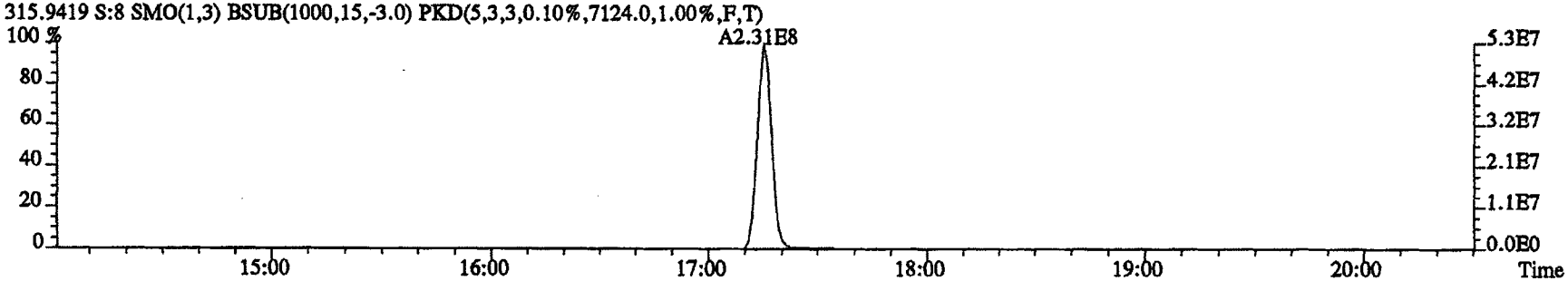
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2664.0,1.00%,F,T)



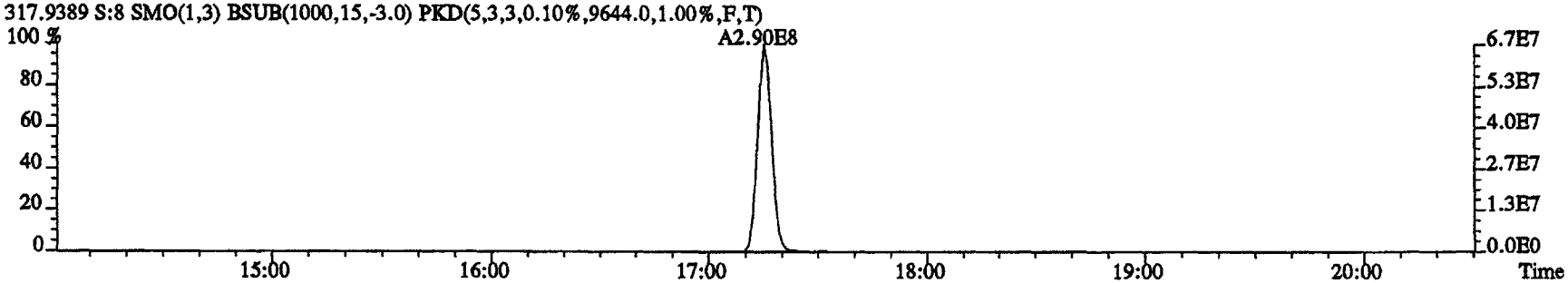
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4392.0,1.00%,F,T)



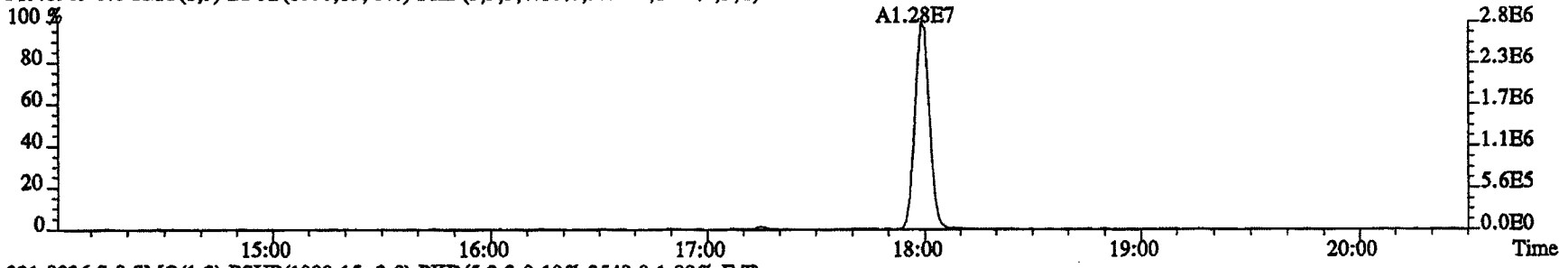
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7124.0,1.00%,F,T)



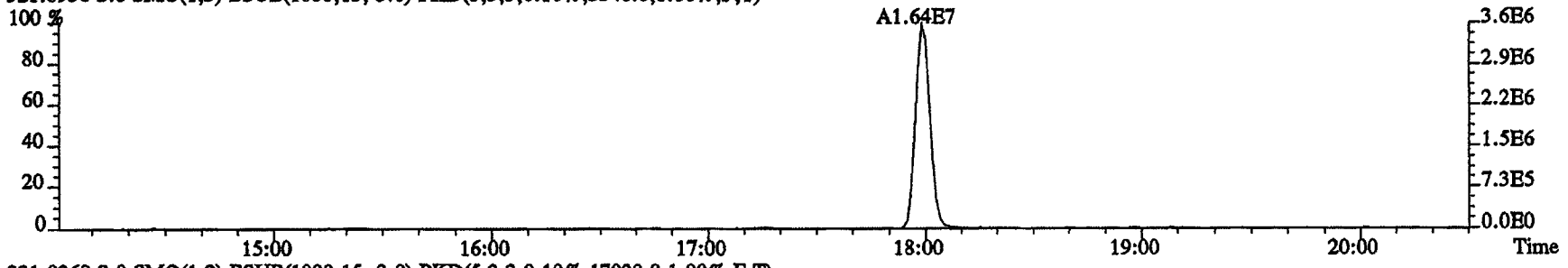
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9644.0,1.00%,F,T)



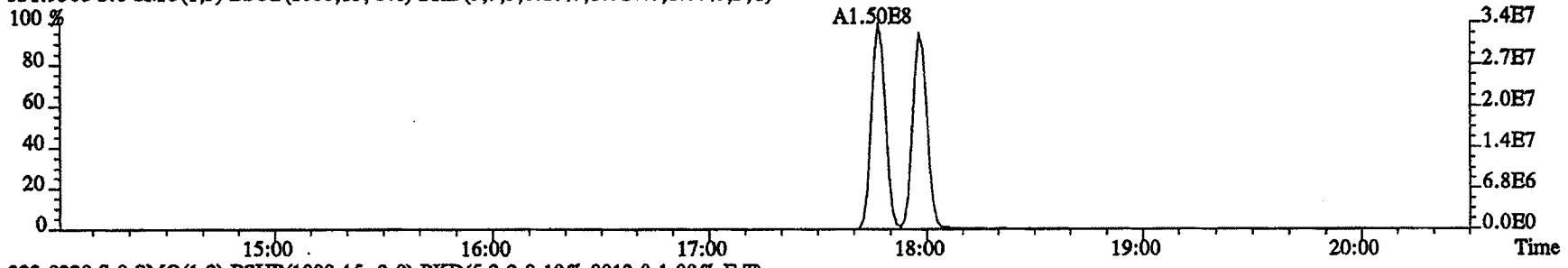
File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3896.0,1.00%,F,T)



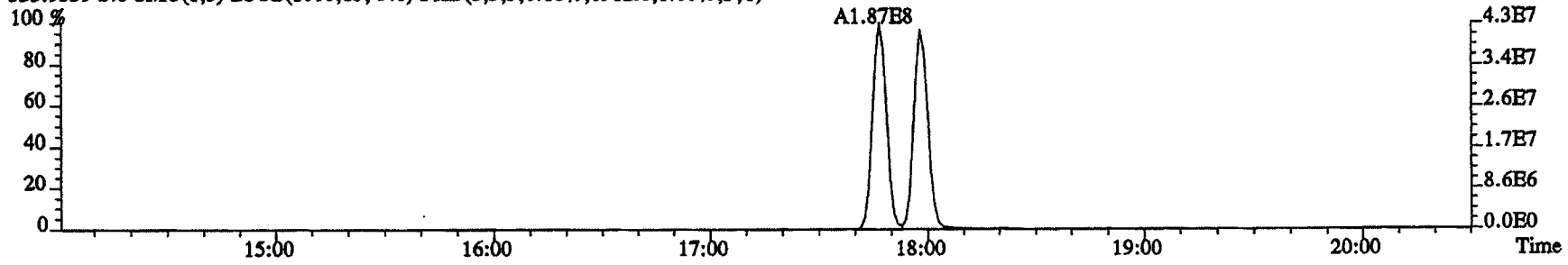
321.8936 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3540.0,1.00%,F,T)



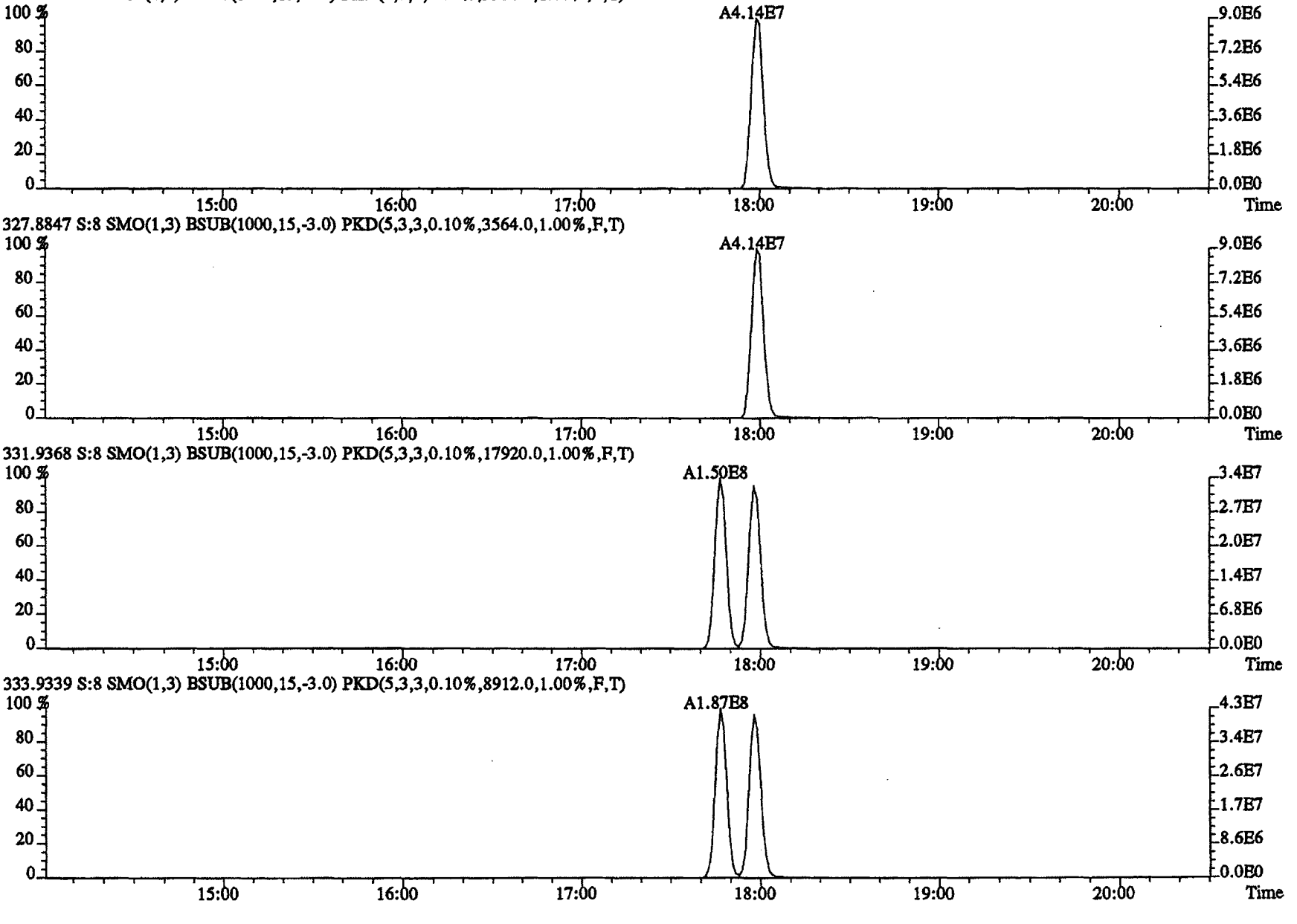
331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17920.0,1.00%,F,T)



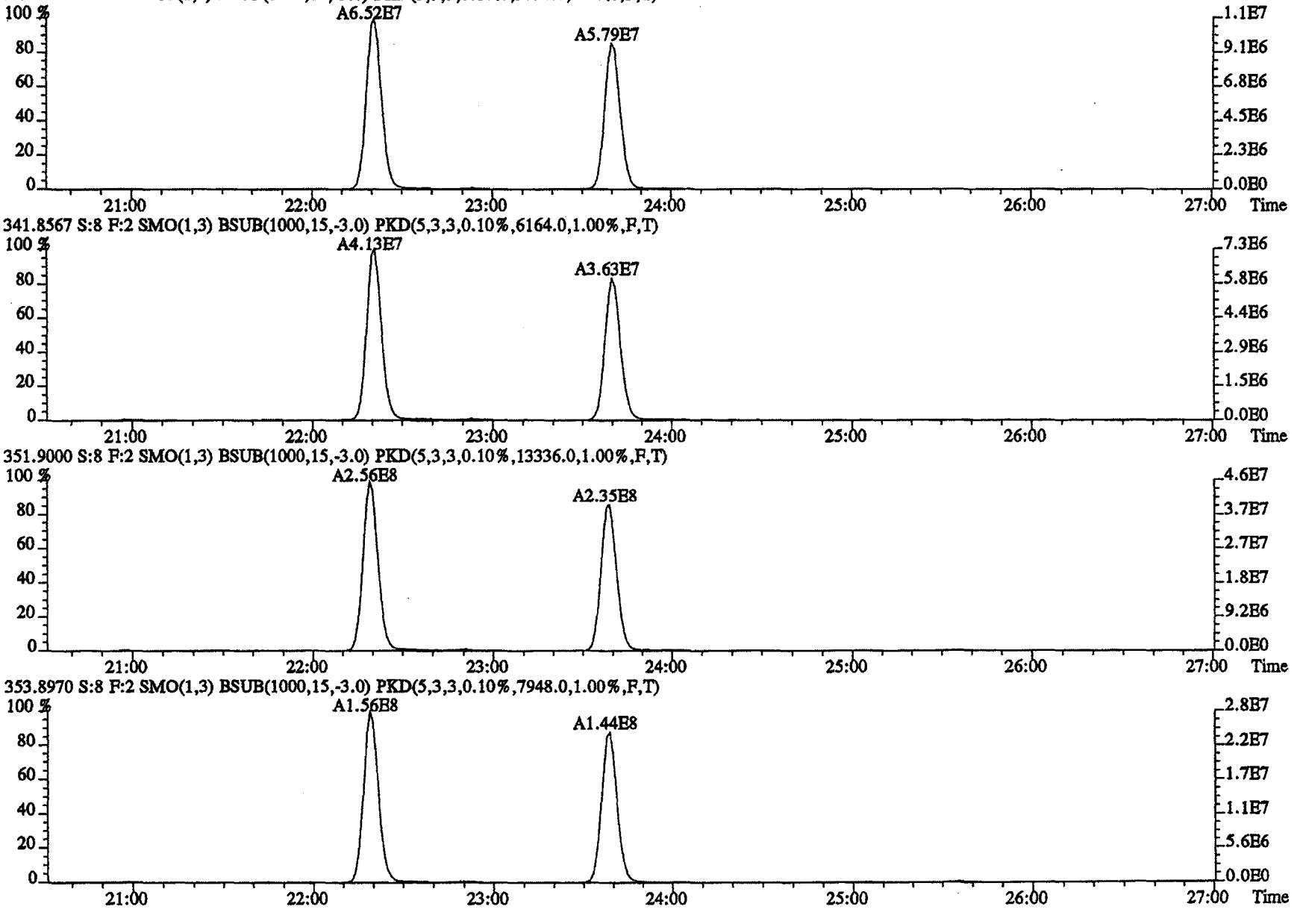
333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8912.0,1.00%,F,T)

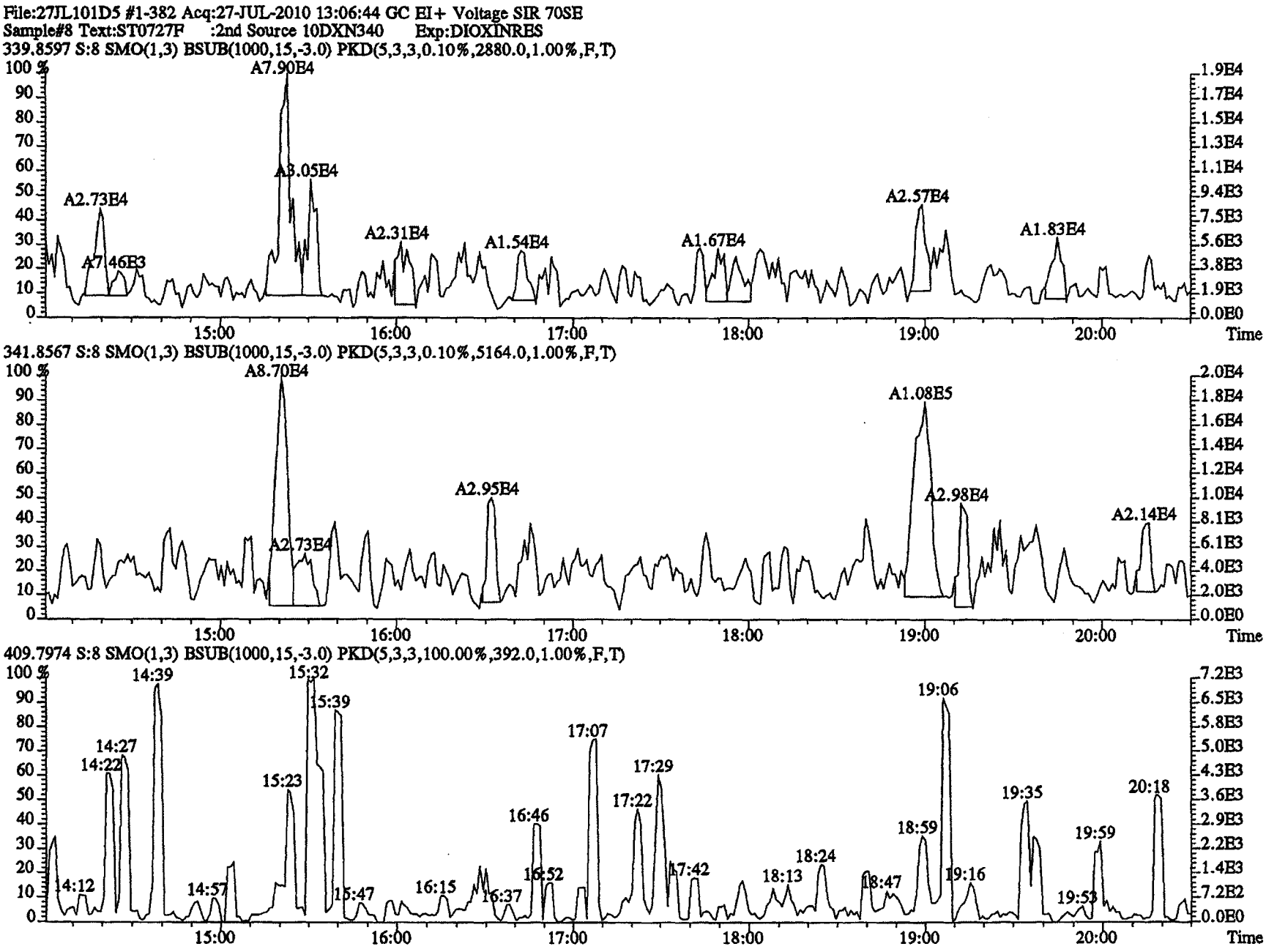


File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES

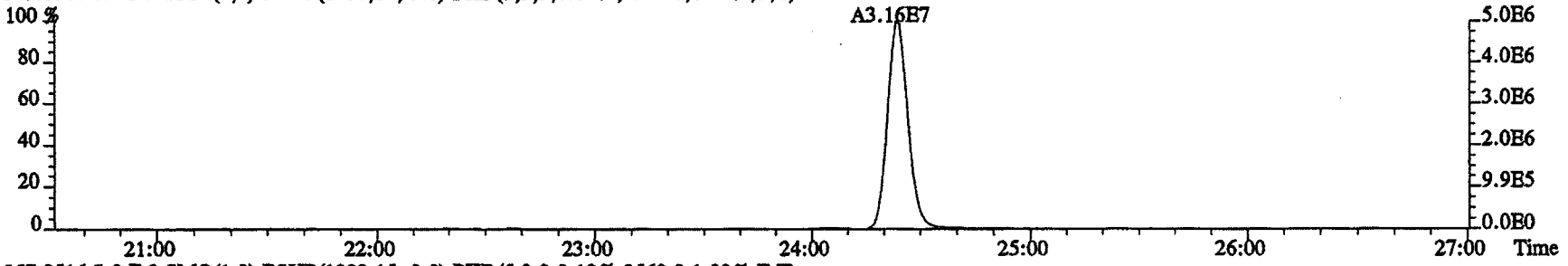


File:27JL101D5 #1-404 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES

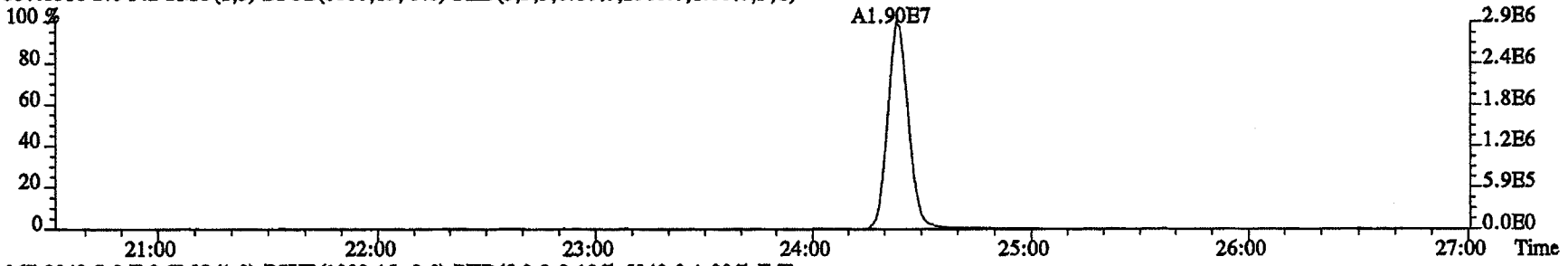



File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
339.8597 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2880.0,1.00%,F,T)
A7.90E4
A3.05E4
A2.73E4
A2.31E4
A1.54E4
A1.67E4
A2.57E4
A1.83E4
A7.46E3
341.8567 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5164.0,1.00%,F,T)
A8.70E4
A1.08E5
A2.95E4
A2.98E4
A2.14E4
A2.73E4
409.7974 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,392.0,1.00%,F,T)
14:39
15:32
15:39
19:06
17:07
14:27
14:22
17:29
15:23
17:22
19:35
20:18
16:46
18:59
19:59
18:24
14:12
14:57
15:47
16:15
16:37
16:52
17:42
18:13
18:47
19:16
19:53
15:00
16:00
17:00
18:00
19:00
20:00
Time

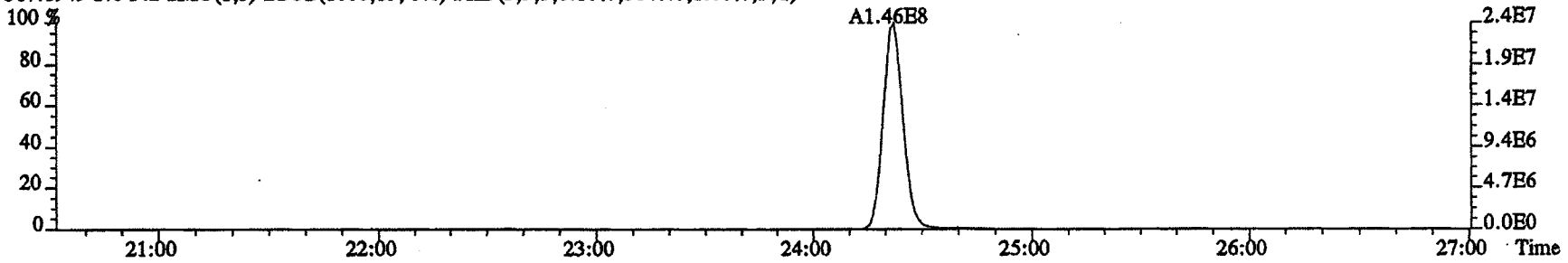
File:27JL101D5 #1-404 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4960.0,1.00%,F,T)



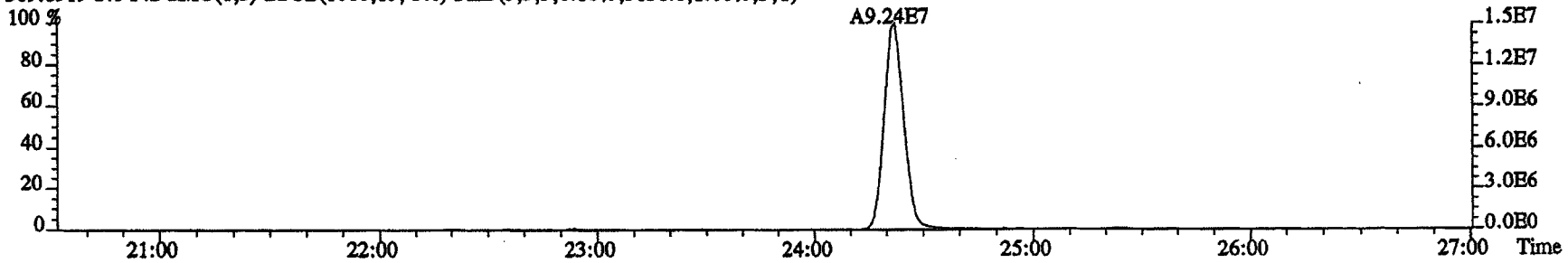
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2560.0,1.00%,F,T)



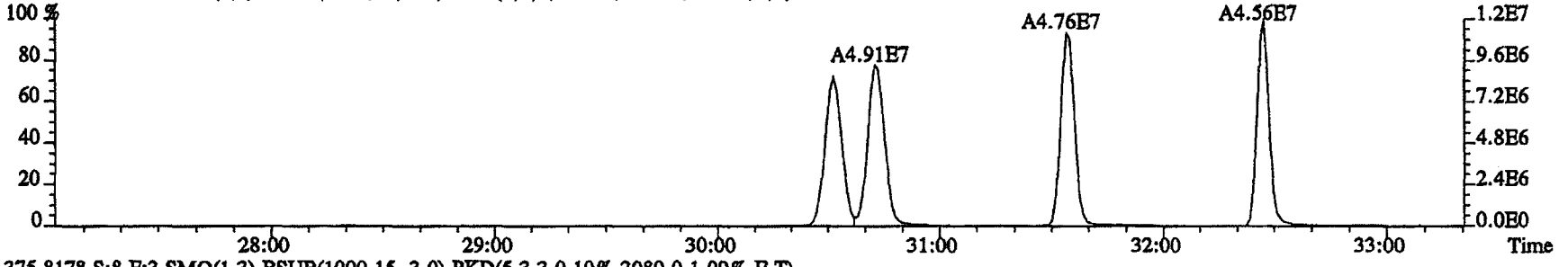
367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5848.0,1.00%,F,T)



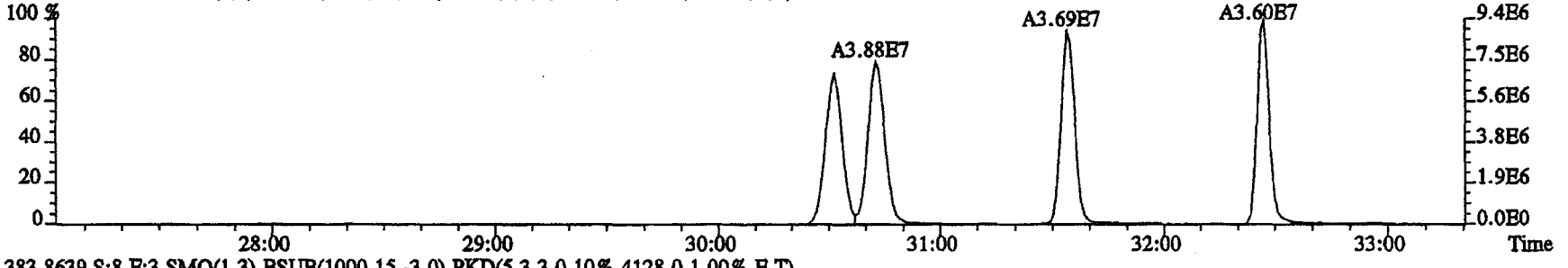
369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T)



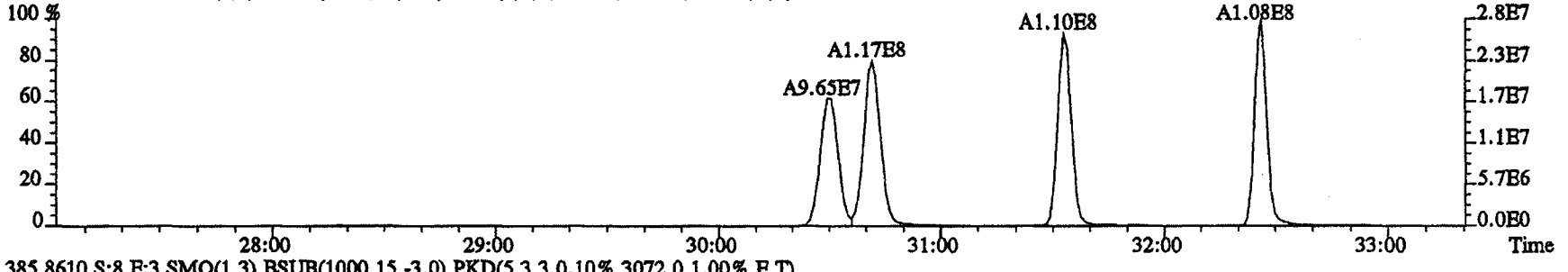
File:27JL101D5 #1-406 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2996.0,1.00%,F,T)



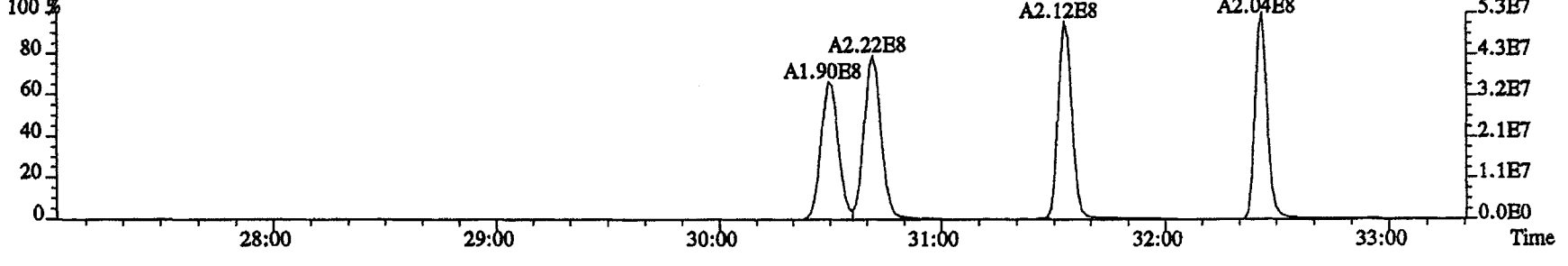
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3080.0,1.00%,F,T)



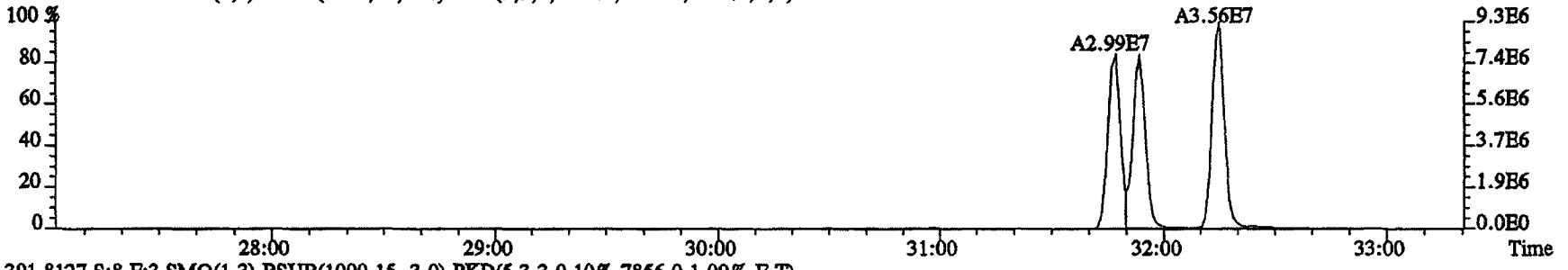
383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4128.0,1.00%,F,T)



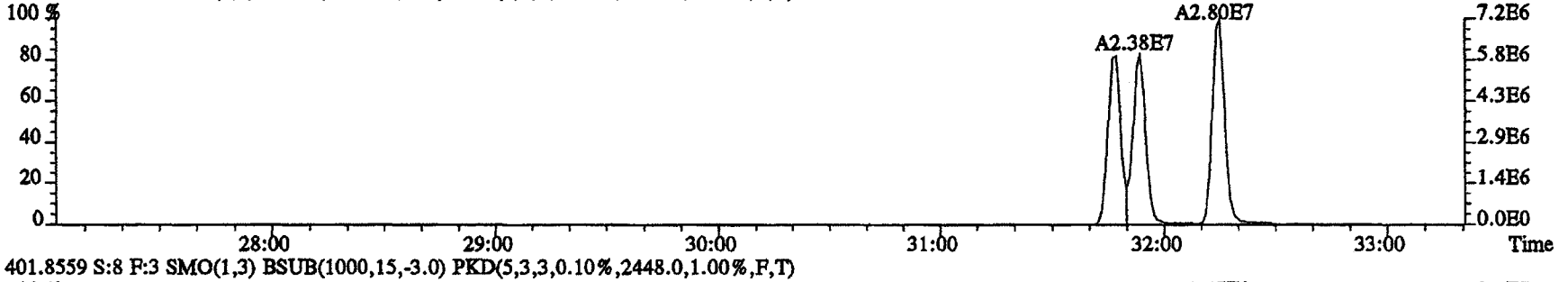
385.8610 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3072.0,1.00%,F,T)



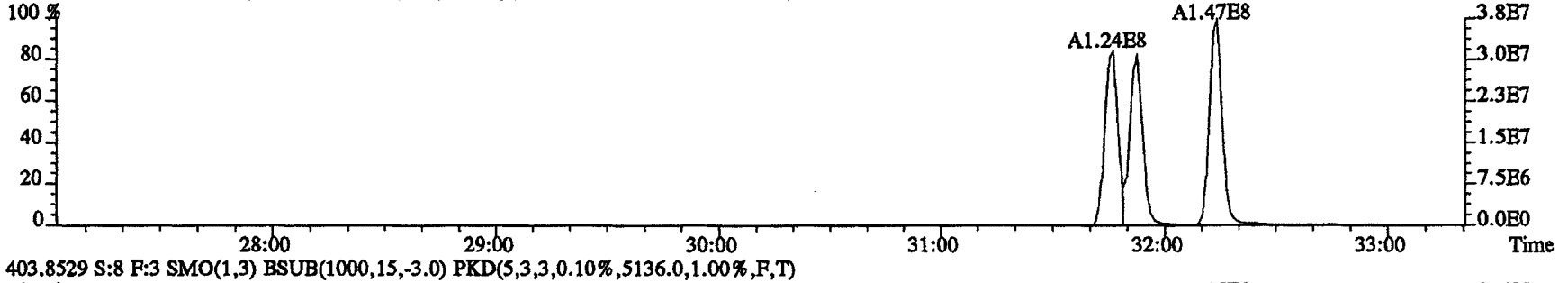
File:27JL101D5 #1-406 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2872.0,1.00%,F,T)



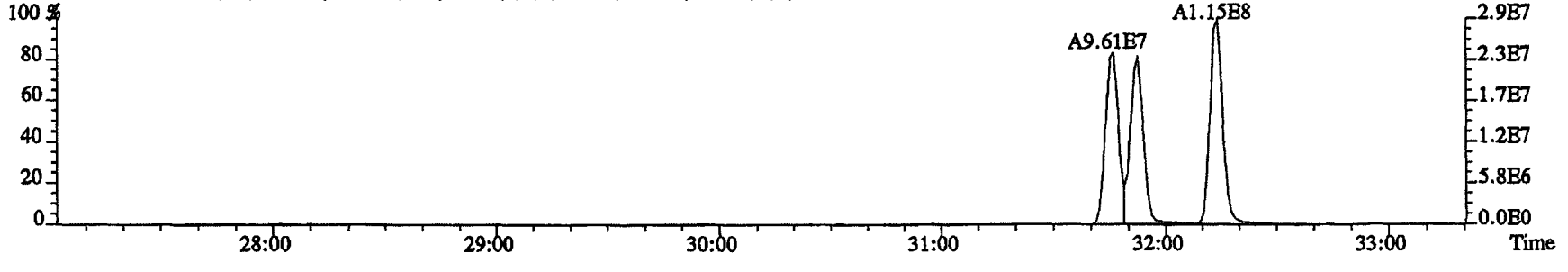
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7856.0,1.00%,F,T)



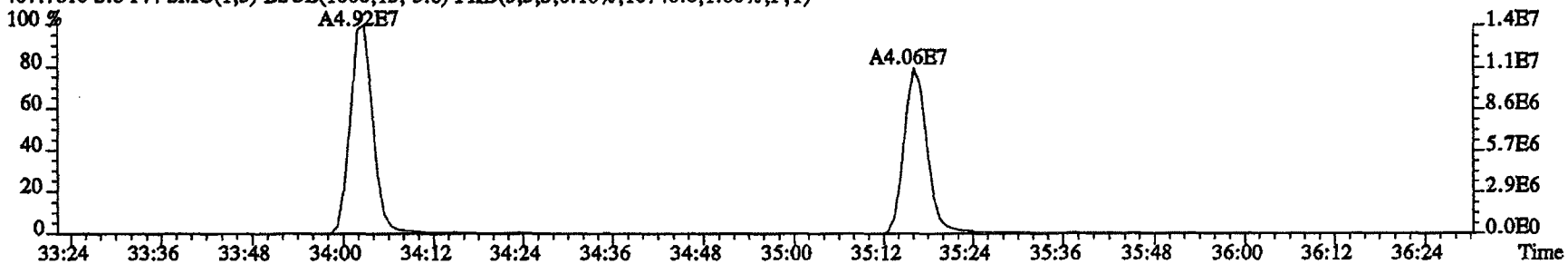
401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2448.0,1.00%,F,T)



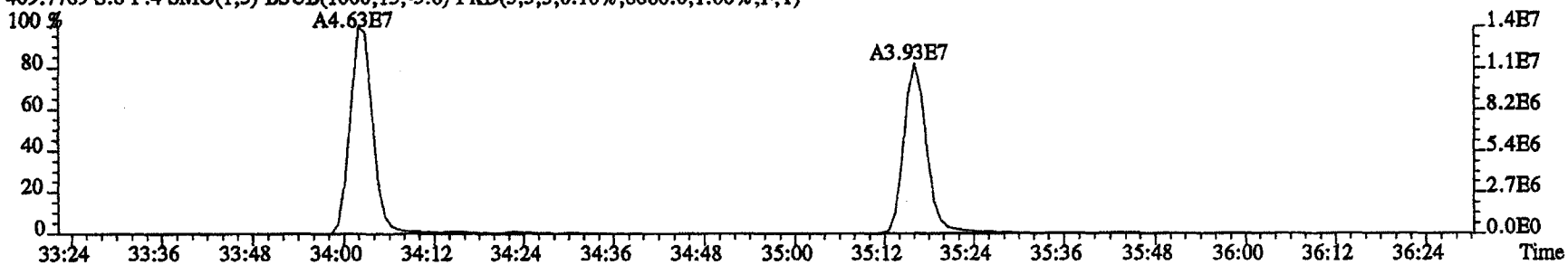
403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)



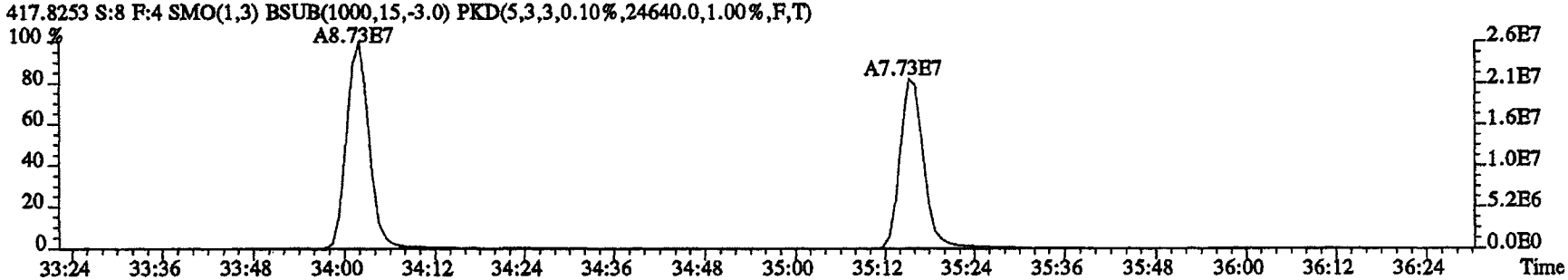
File:27JL101D5 #1-214 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10740.0,1.00%,F,T)



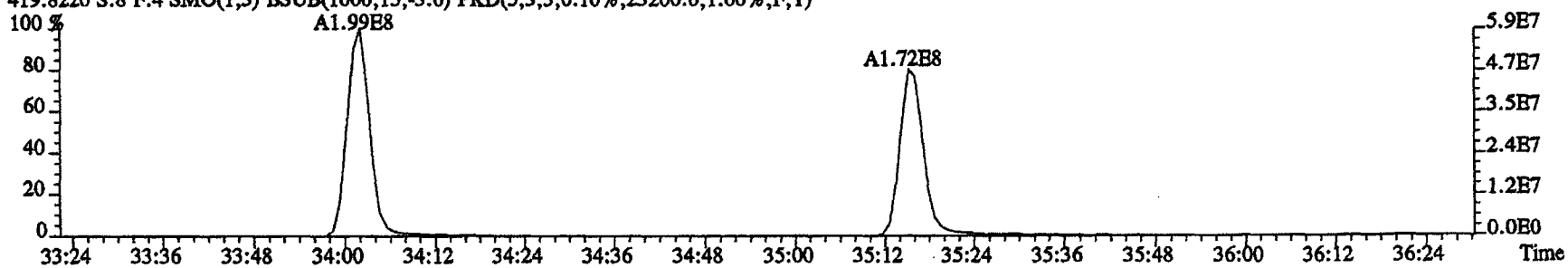
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8860.0,1.00%,F,T)



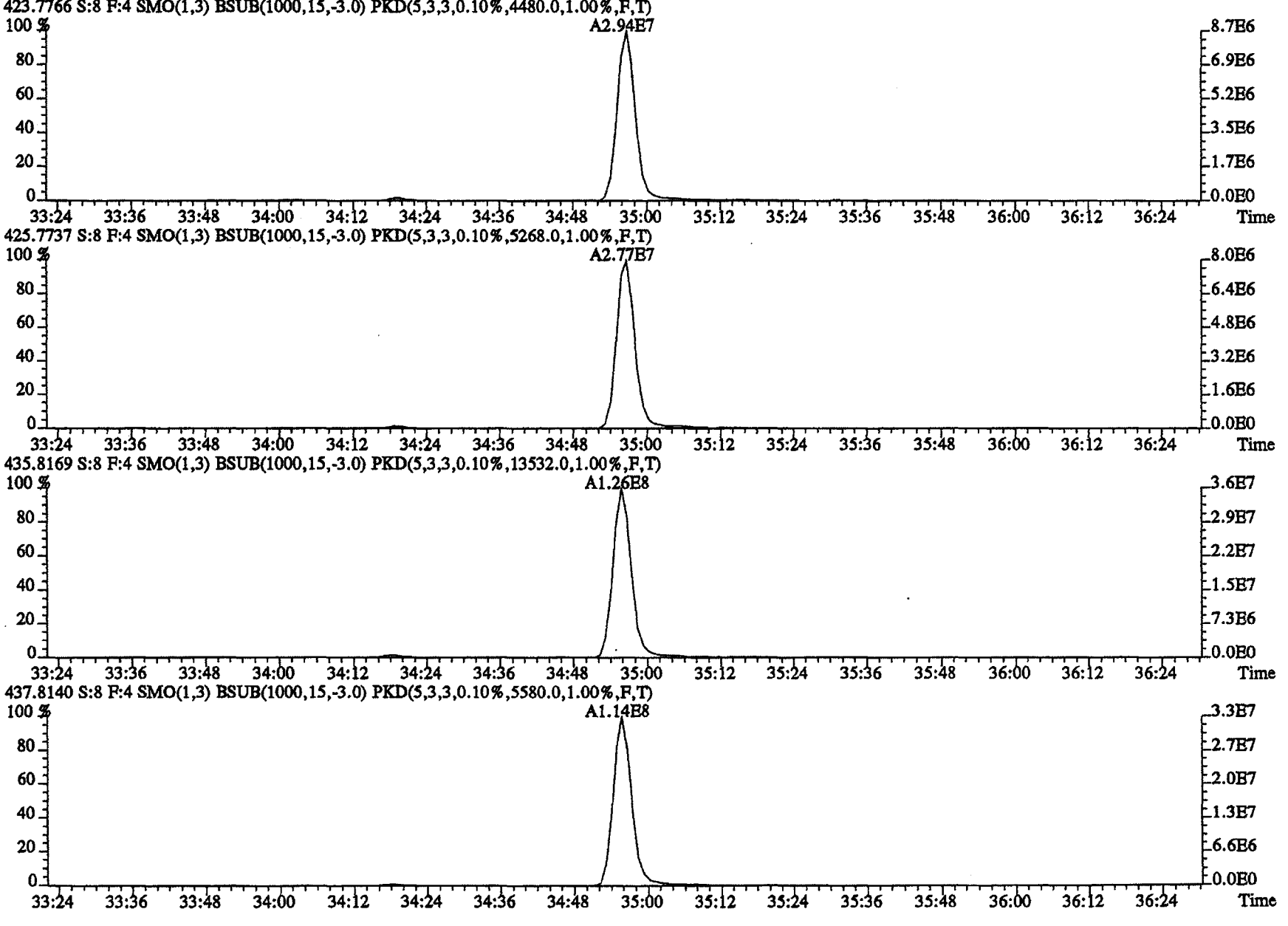
417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24640.0,1.00%,F,T)



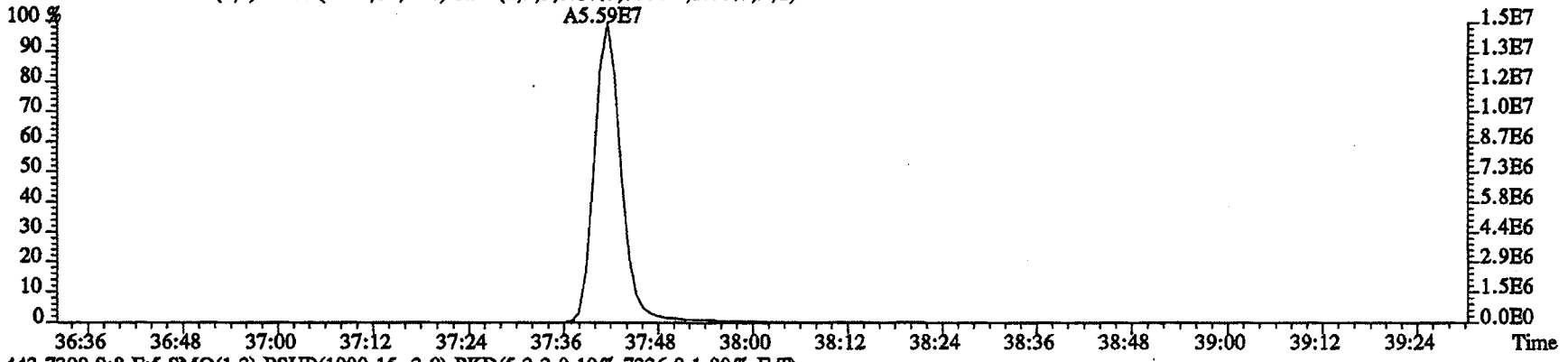
419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23200.0,1.00%,F,T)



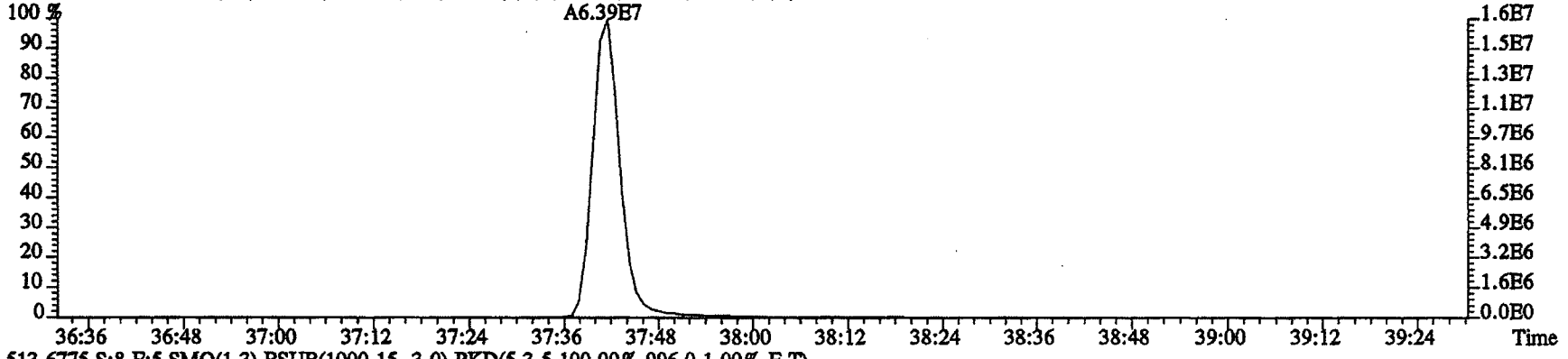
File:27JL101D5 #1-214 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SB
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES



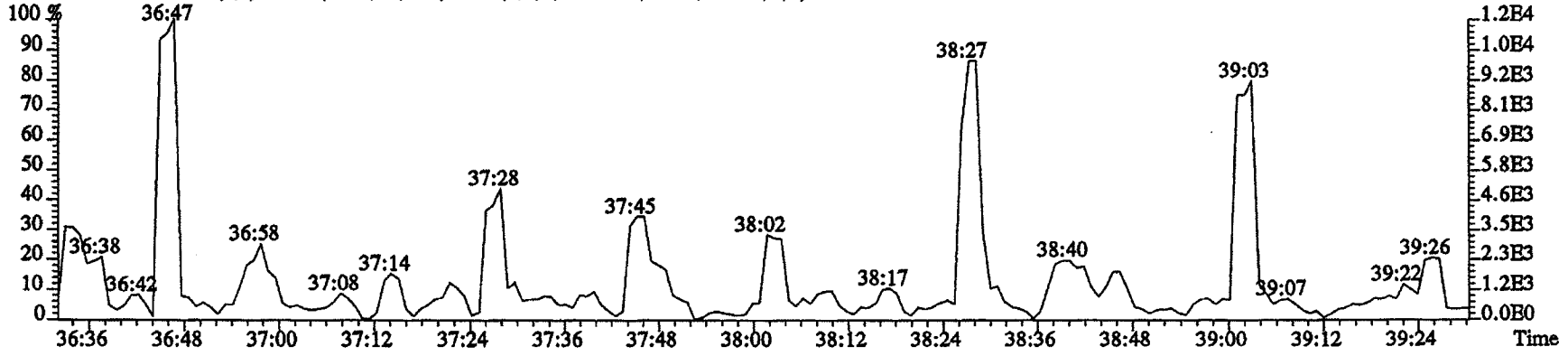
File:27JL101D5 #1-196 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7004.0,1.00%,F,T)



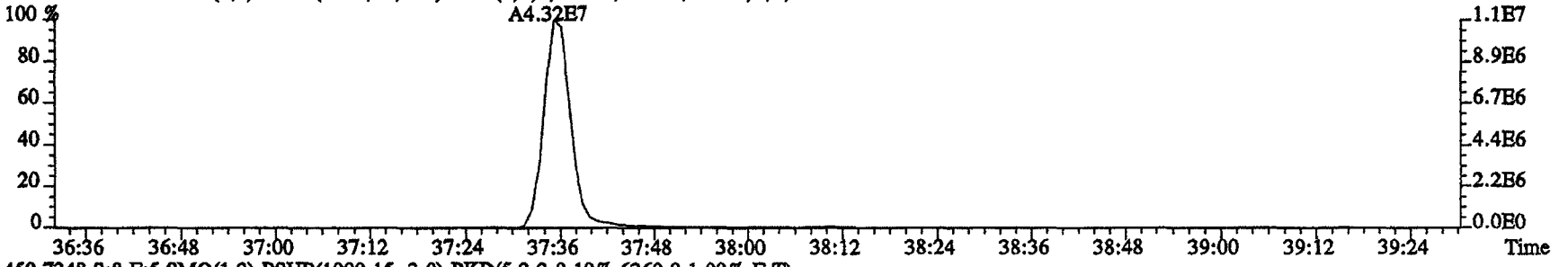
443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7336.0,1.00%,F,T)



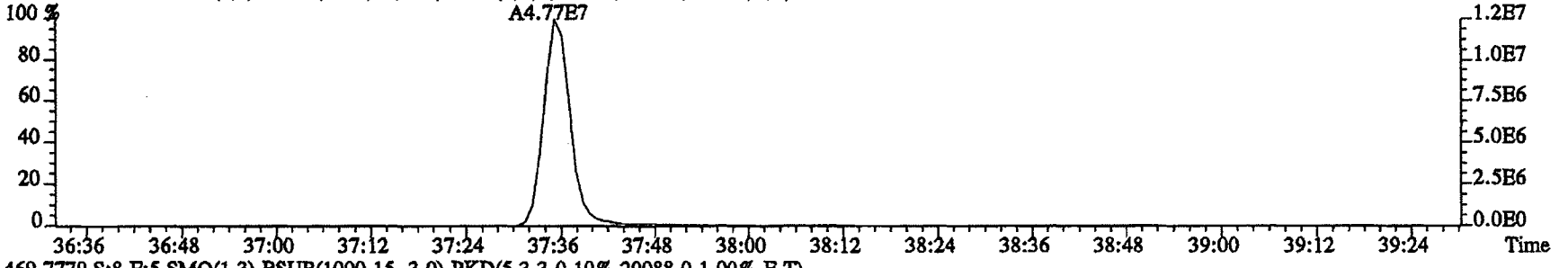
513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,996.0,1.00%,F,T)



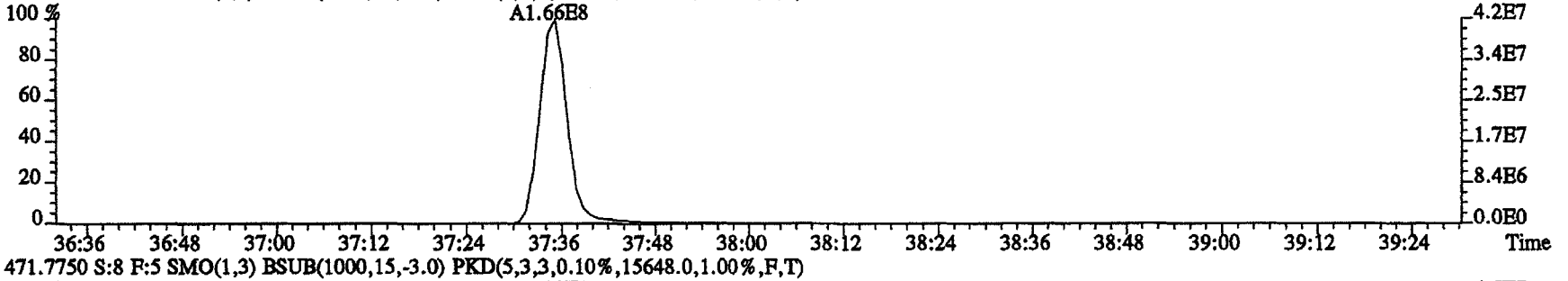
File:27JL101D5 #1-196 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



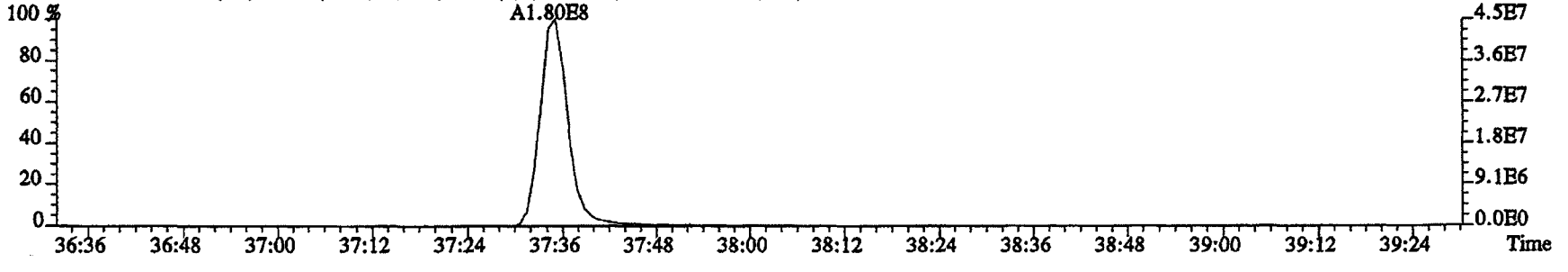
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6360.0,1.00%,F,T)

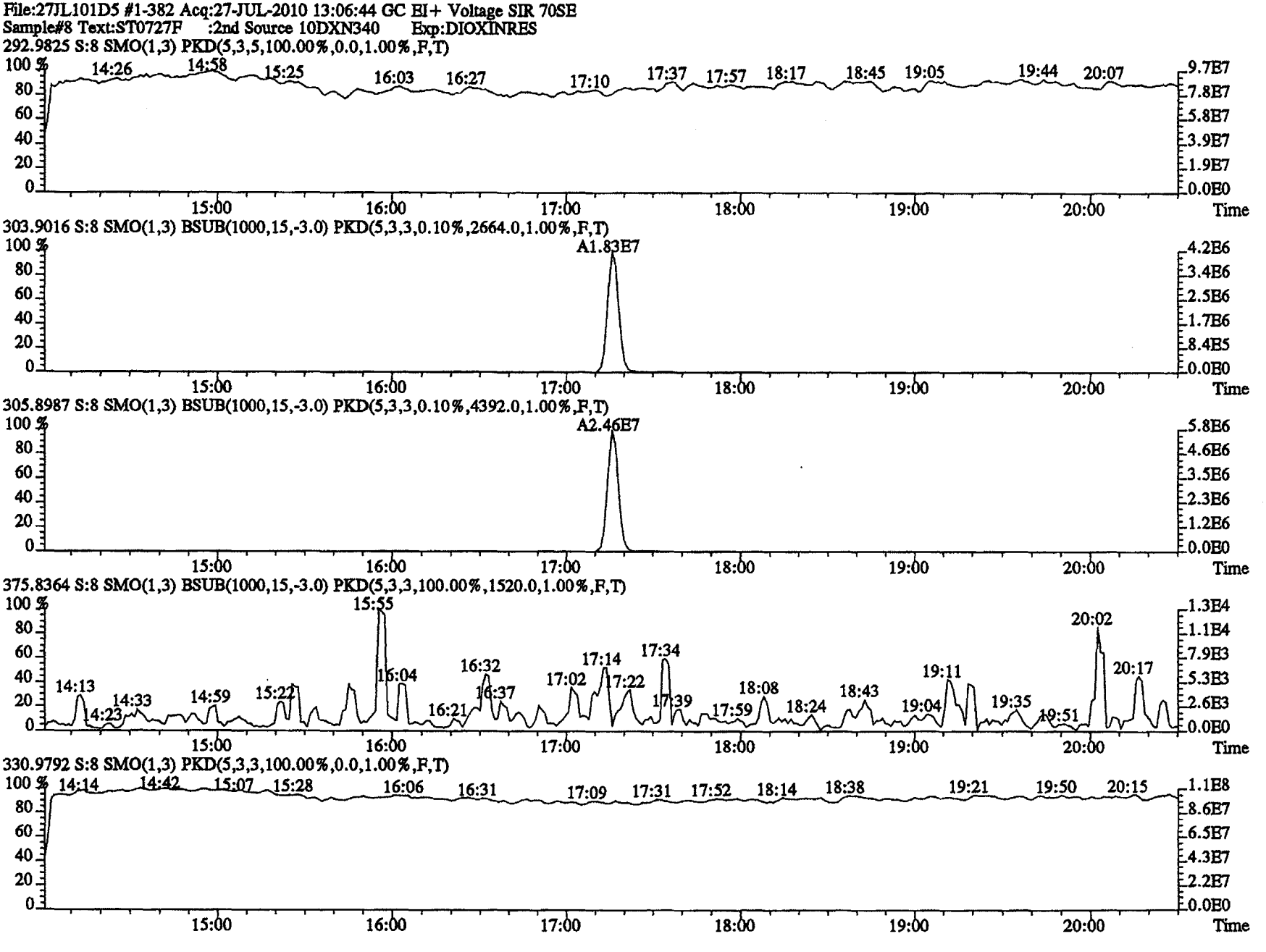


469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20088.0,1.00%,F,T)

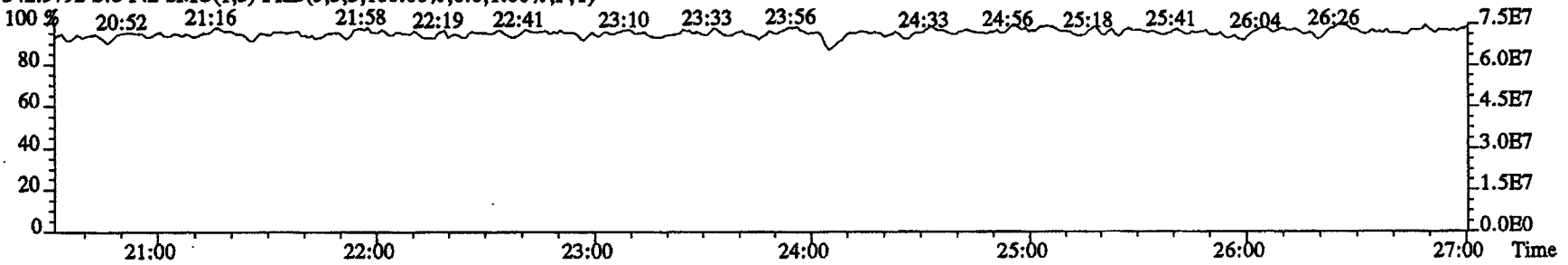


471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15648.0,1.00%,F,T)

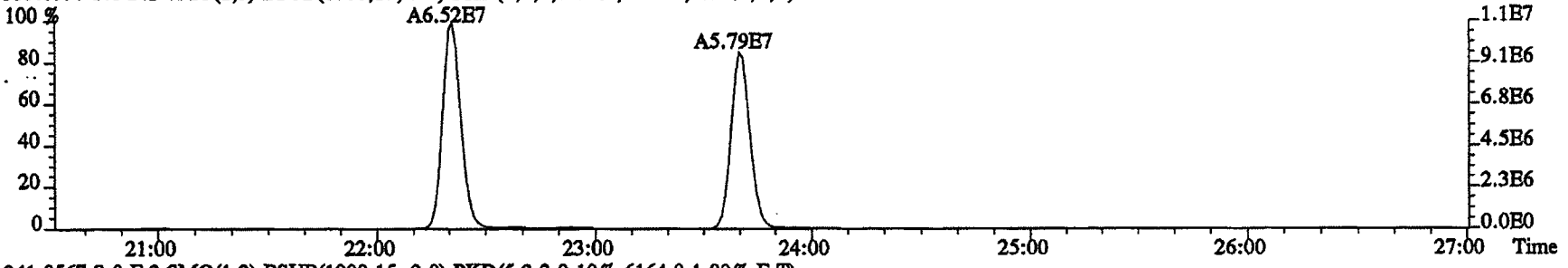




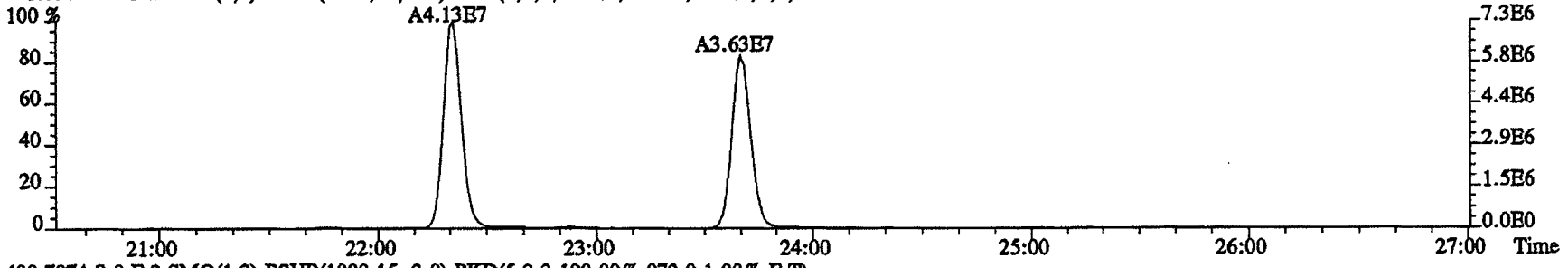
File:27JL101D5 #1-404 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



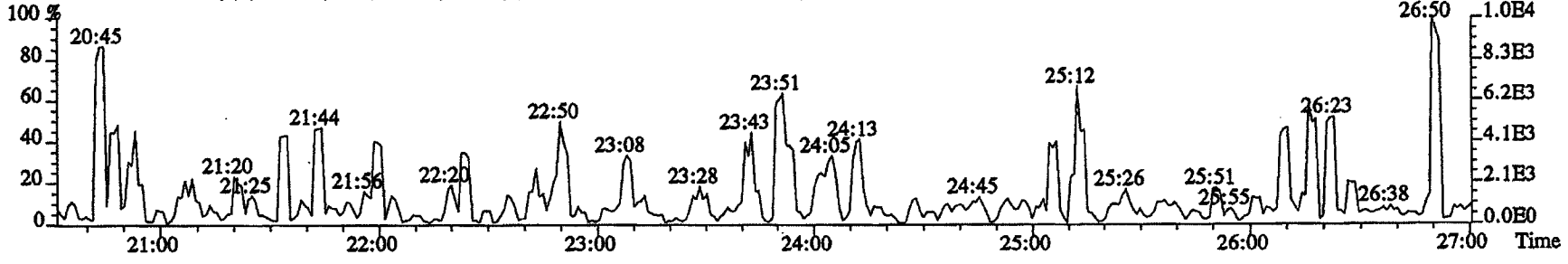
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3796.0,1.00%,F,T)



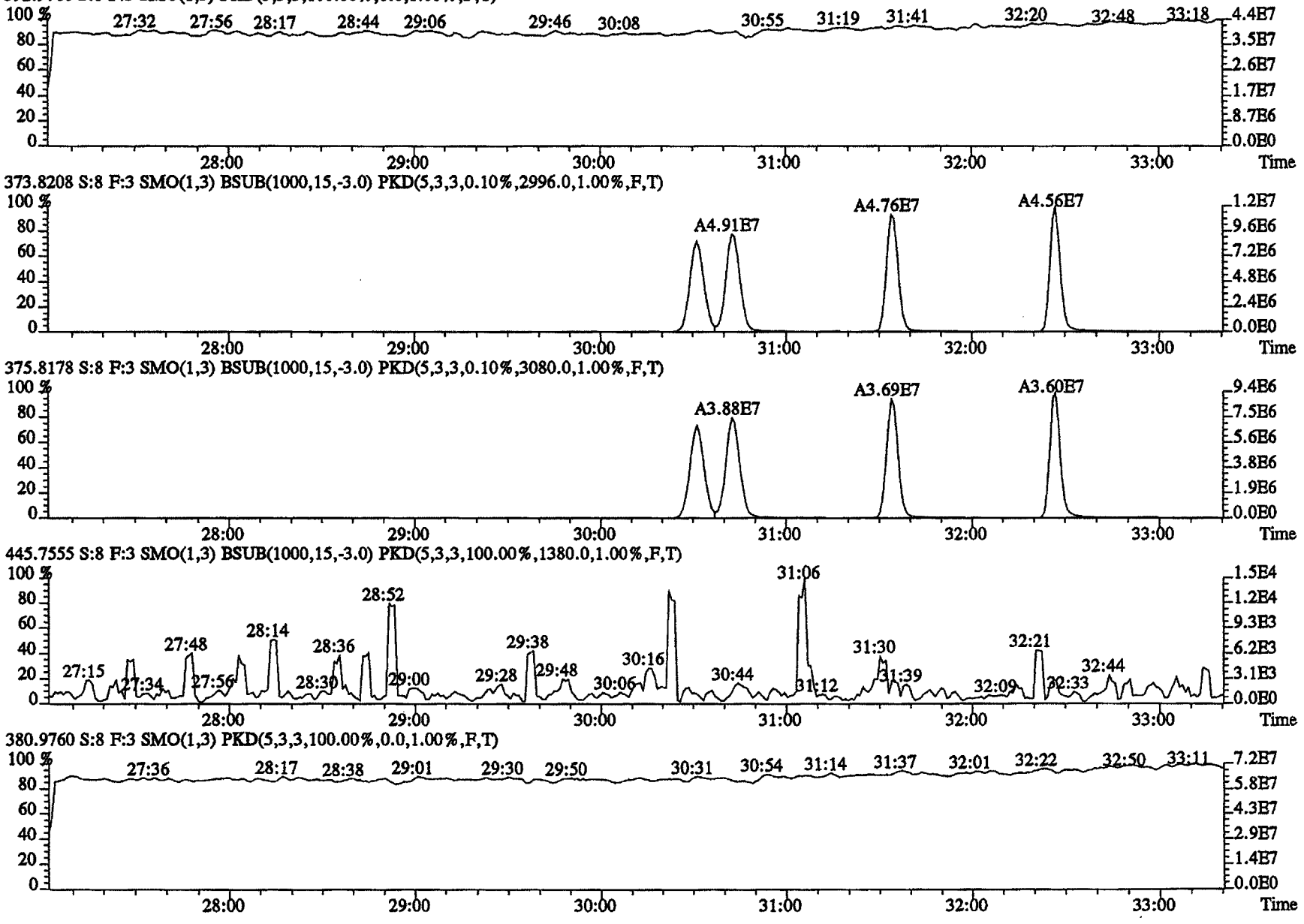
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6164.0,1.00%,F,T)

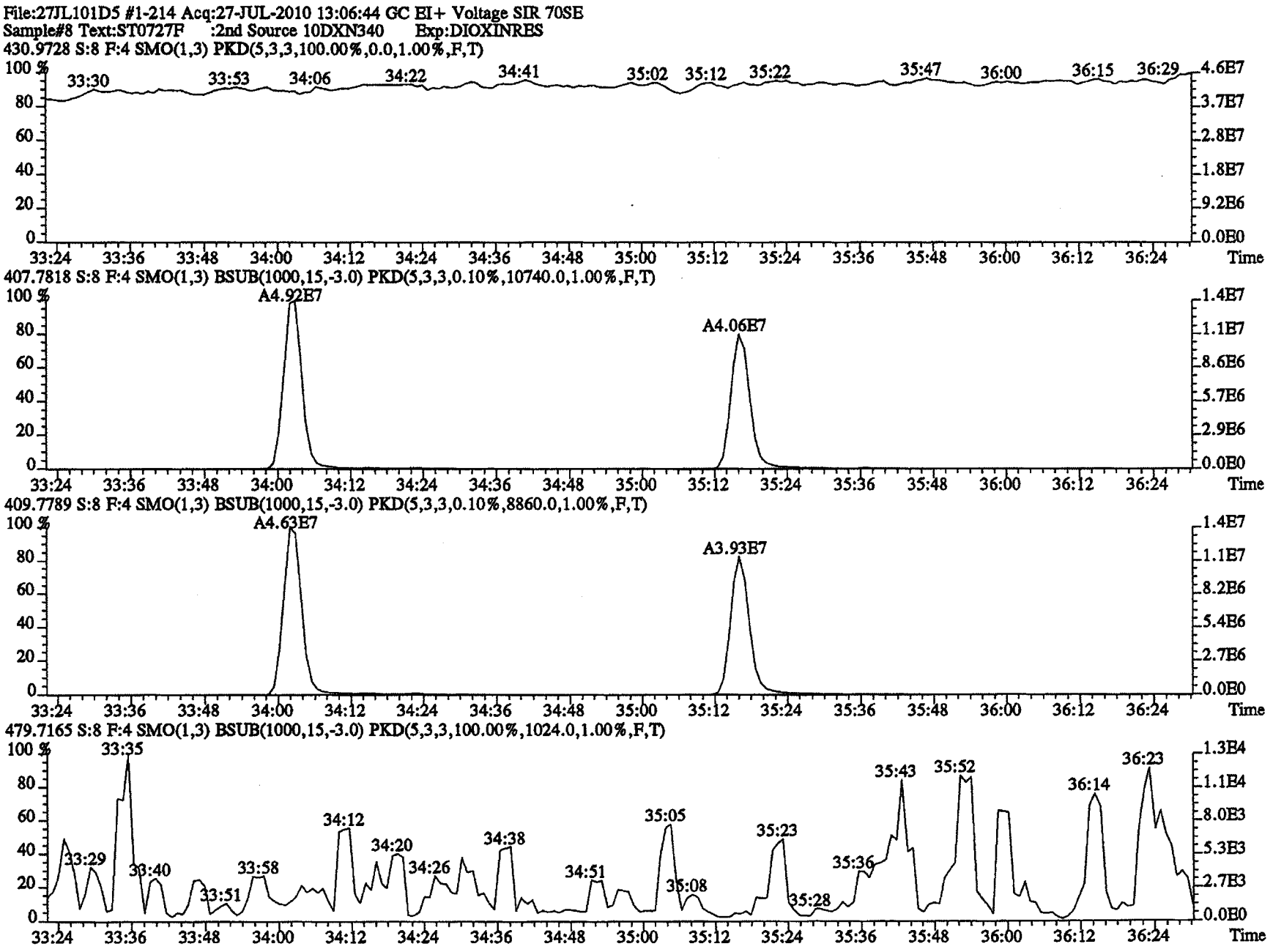


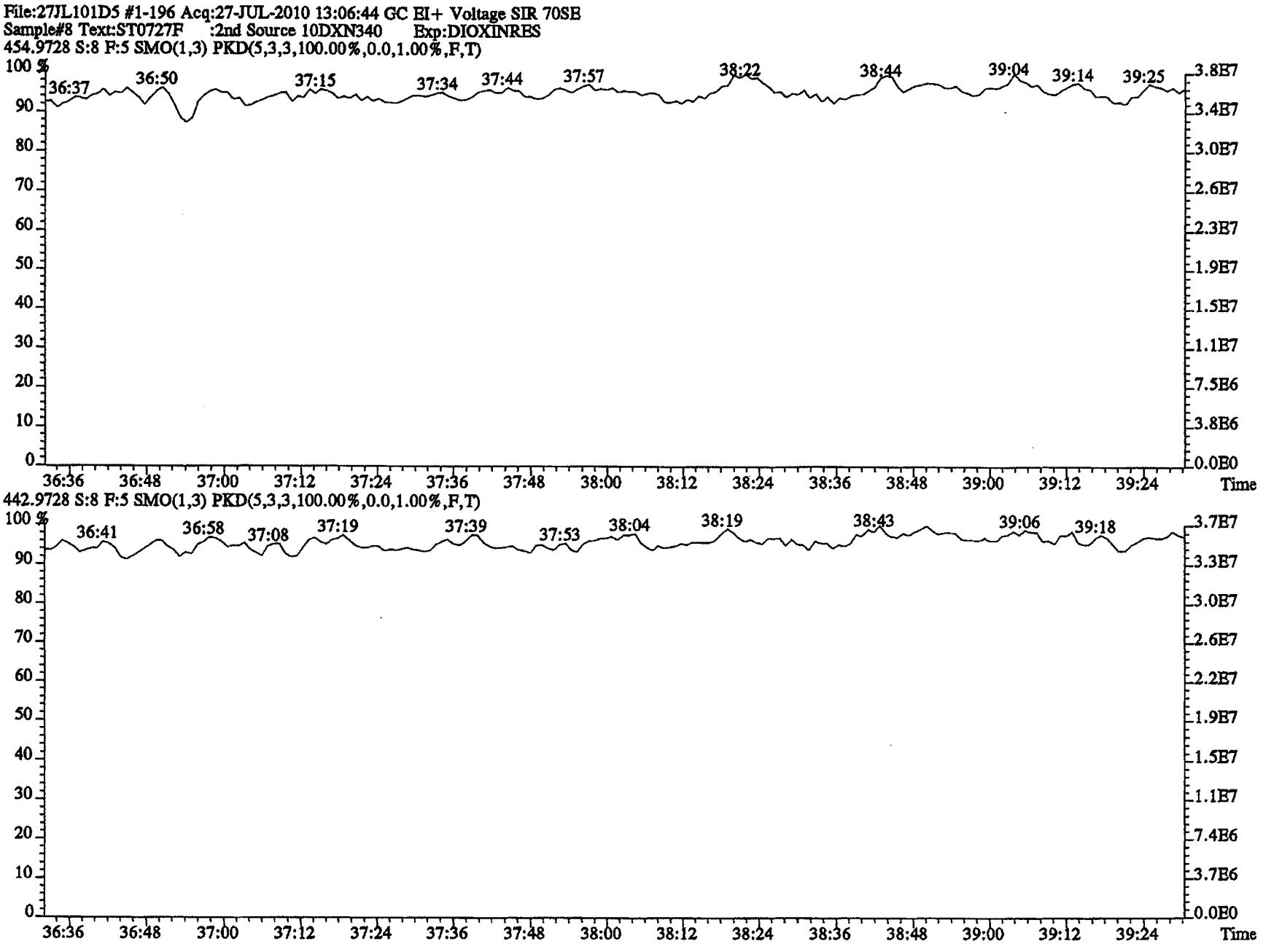
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,972.0,1.00%,F,T)

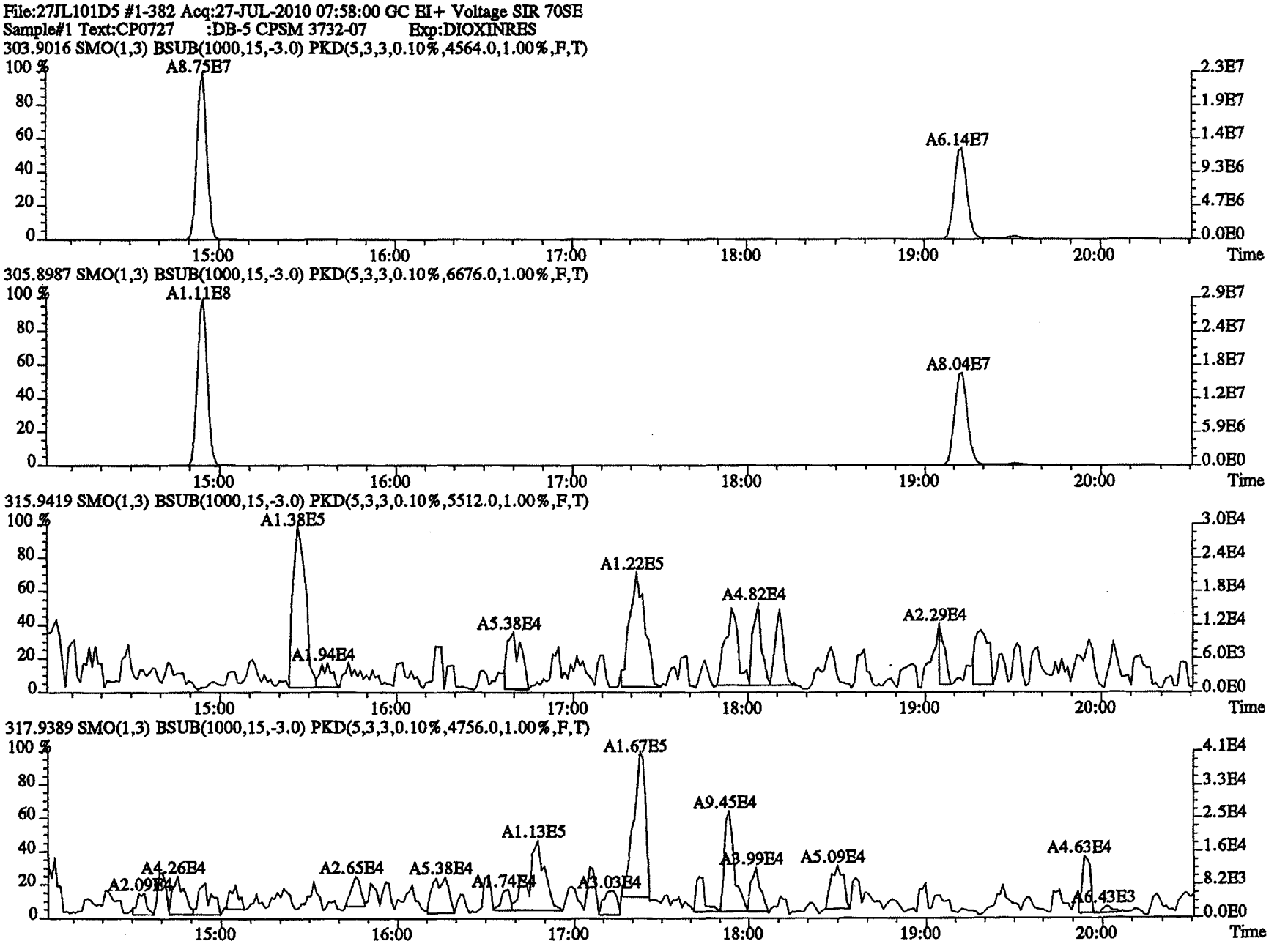


File:27JL101D5 #1-406 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES

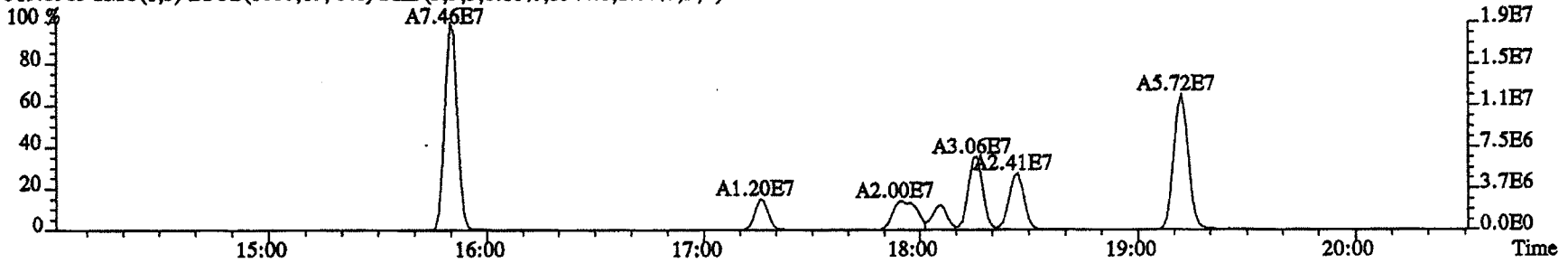



File:27JL101D5 #1-214 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES
430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10740.0,1.00%,F,T)
A4.92E7
A4.06E7
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8860.0,1.00%,F,T)
A4.63E7
A3.93E7
479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1024.0,1.00%,F,T)
Time

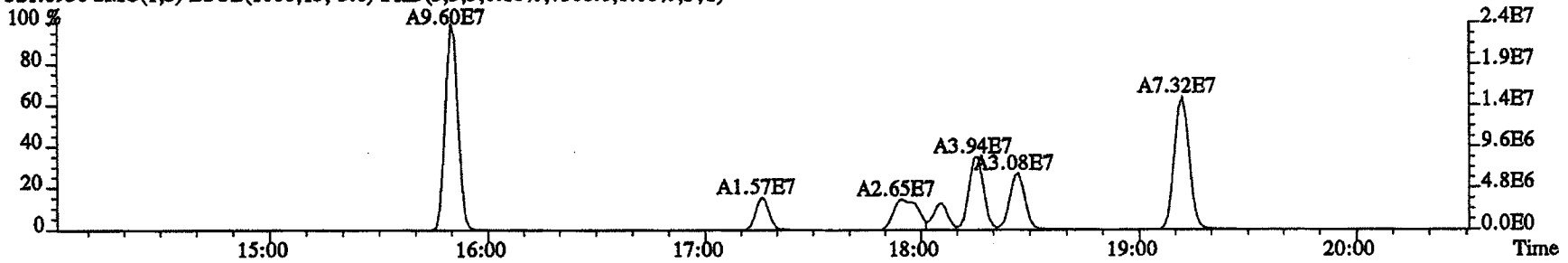




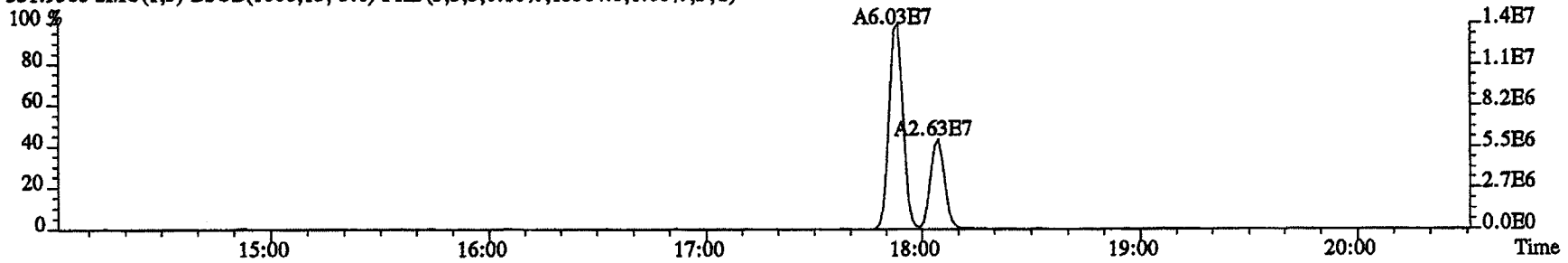
File:27JL101D5 #1-382 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5344.0,1.00%,F,T)



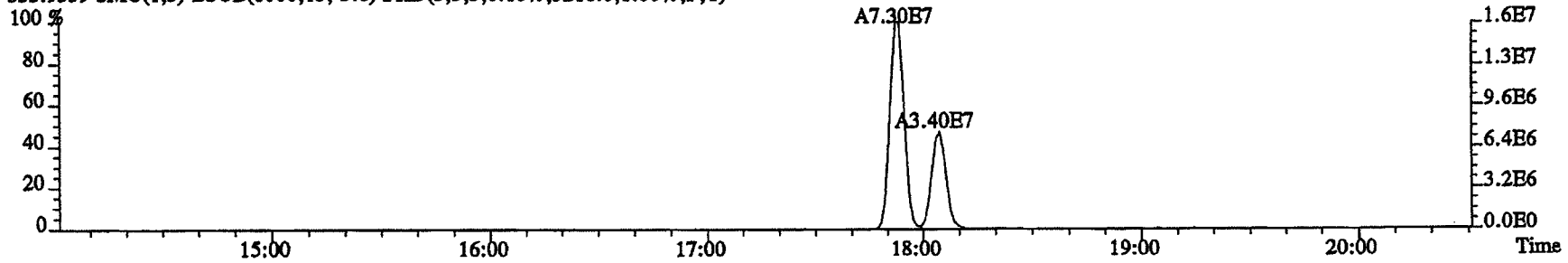
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7308.0,1.00%,F,T)



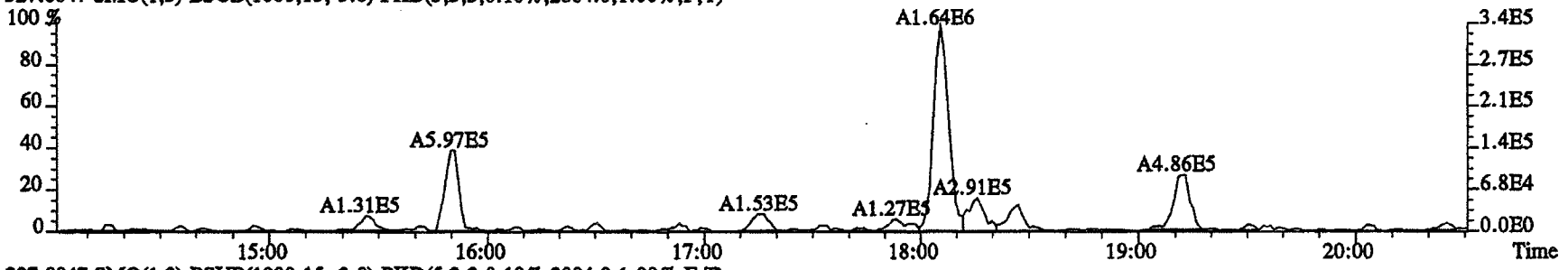
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15564.0,1.00%,F,T)

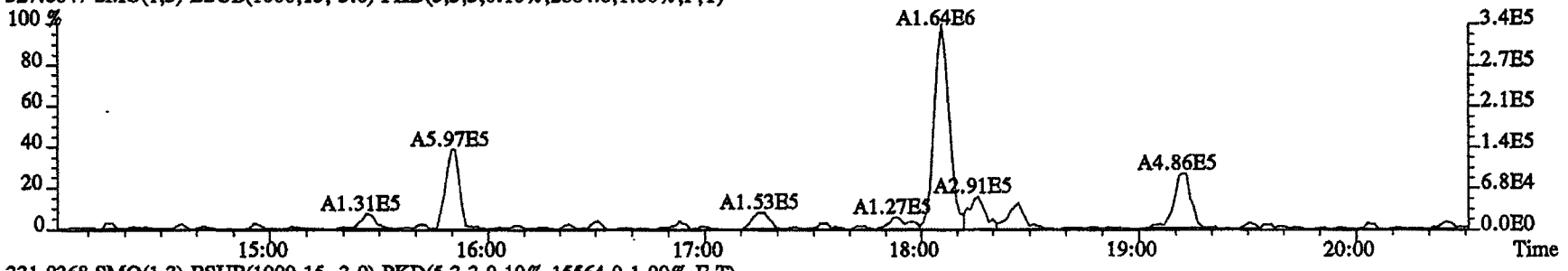


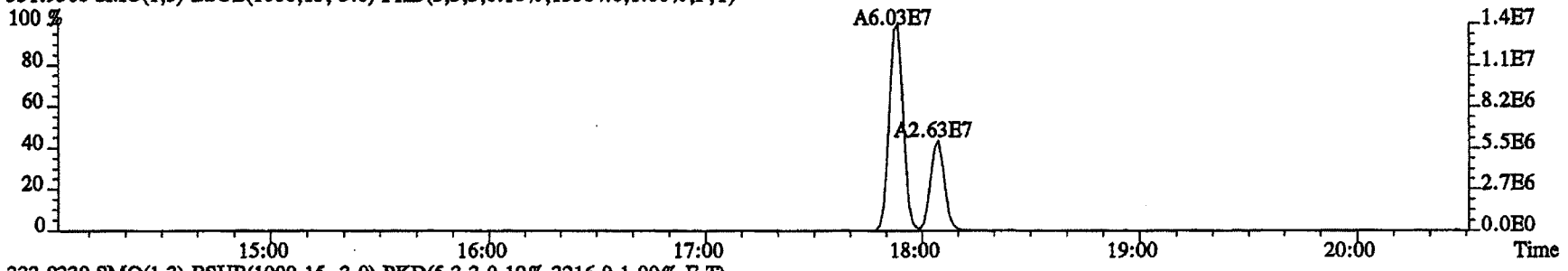
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3216.0,1.00%,F,T)

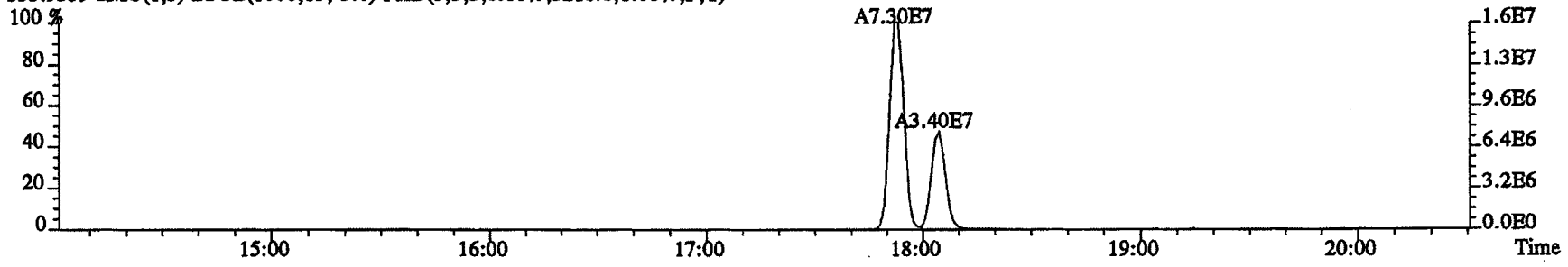


File:27JL101D5 #1-382 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES



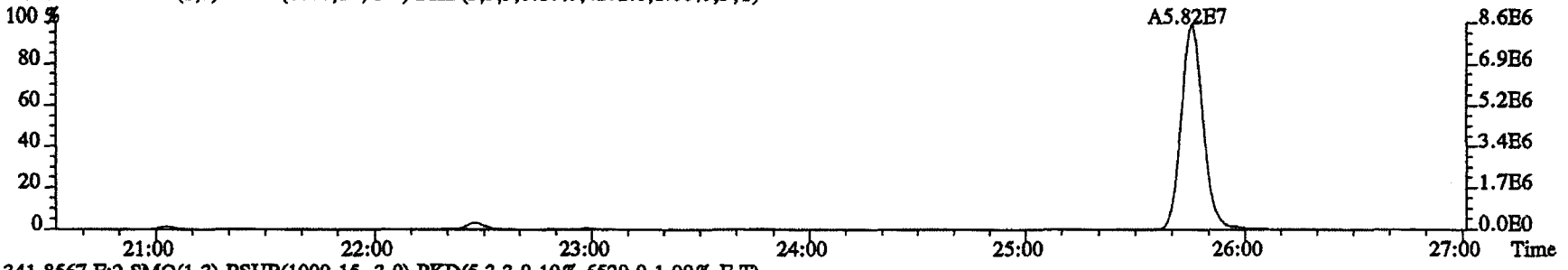




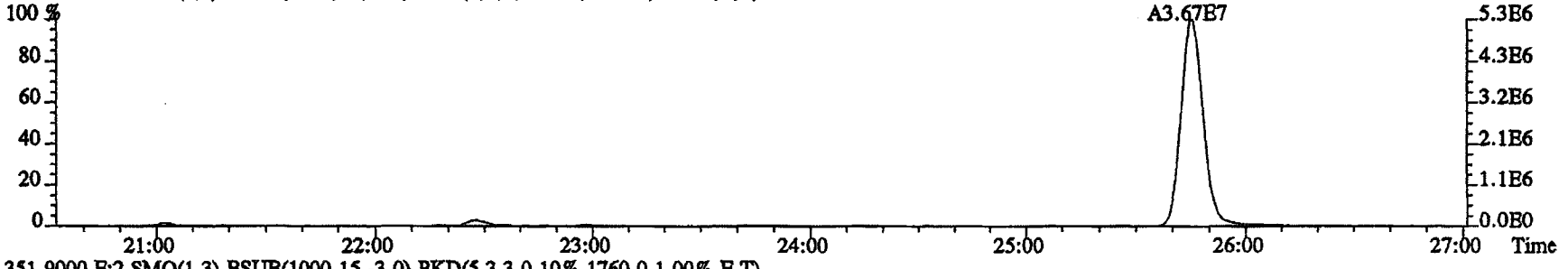


File:27JL101D5 #1-404 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES

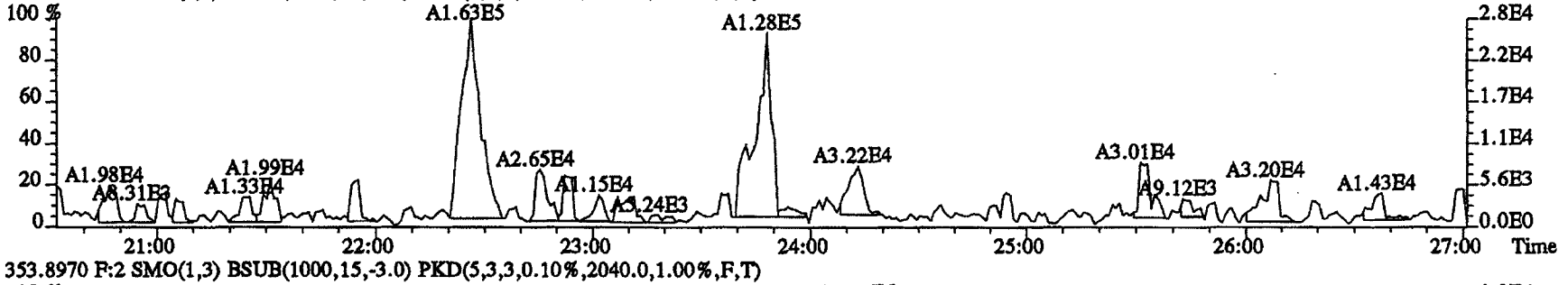
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4272.0,1.00%,F,T)



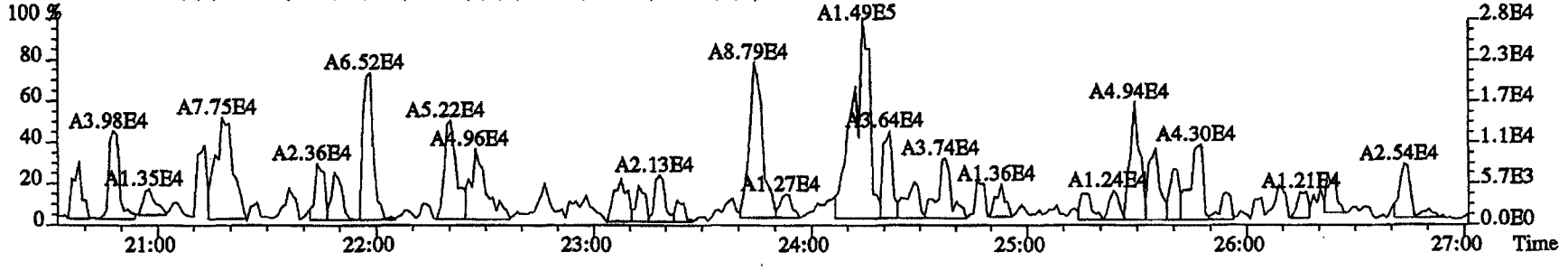
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6520.0,1.00%,F,T)

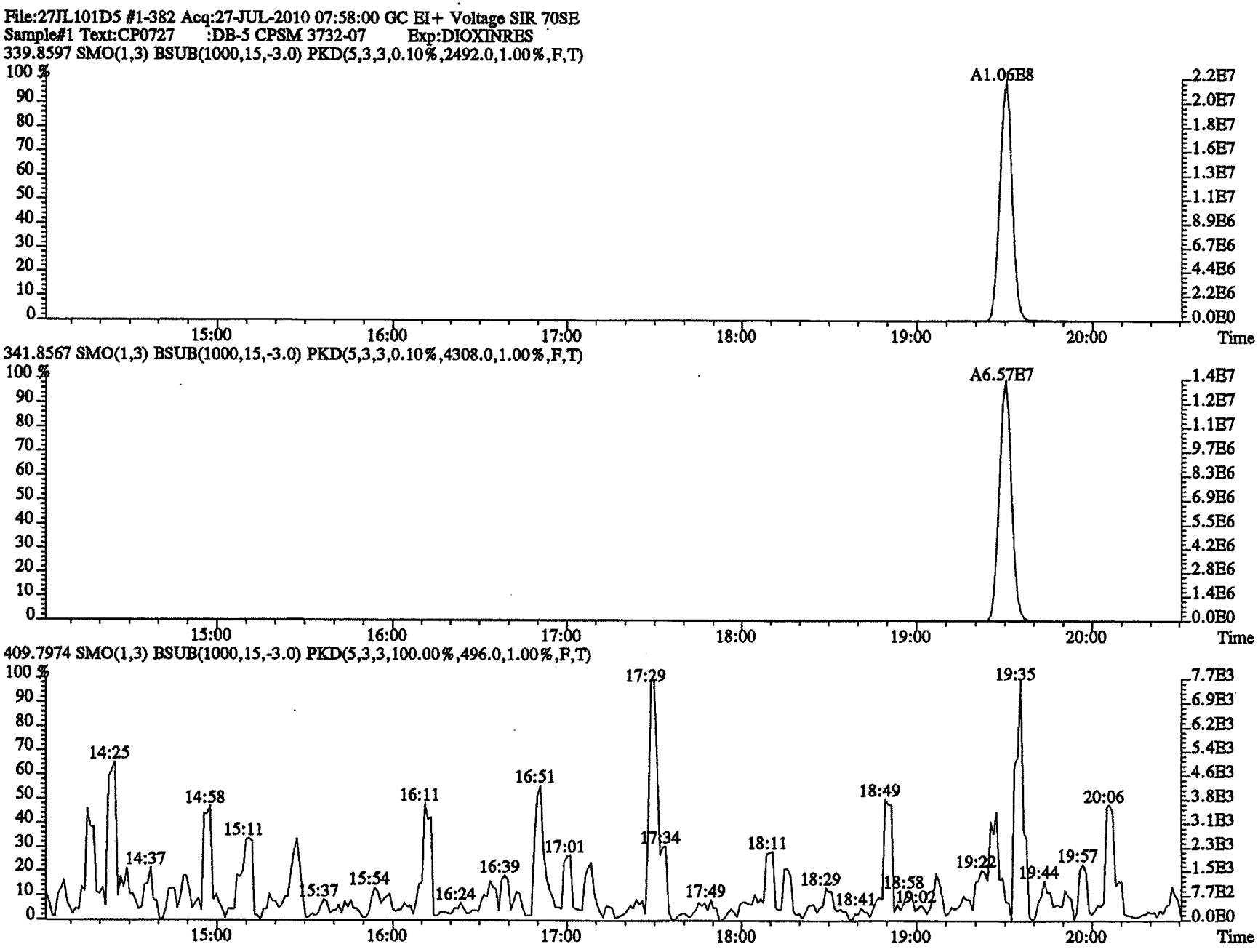


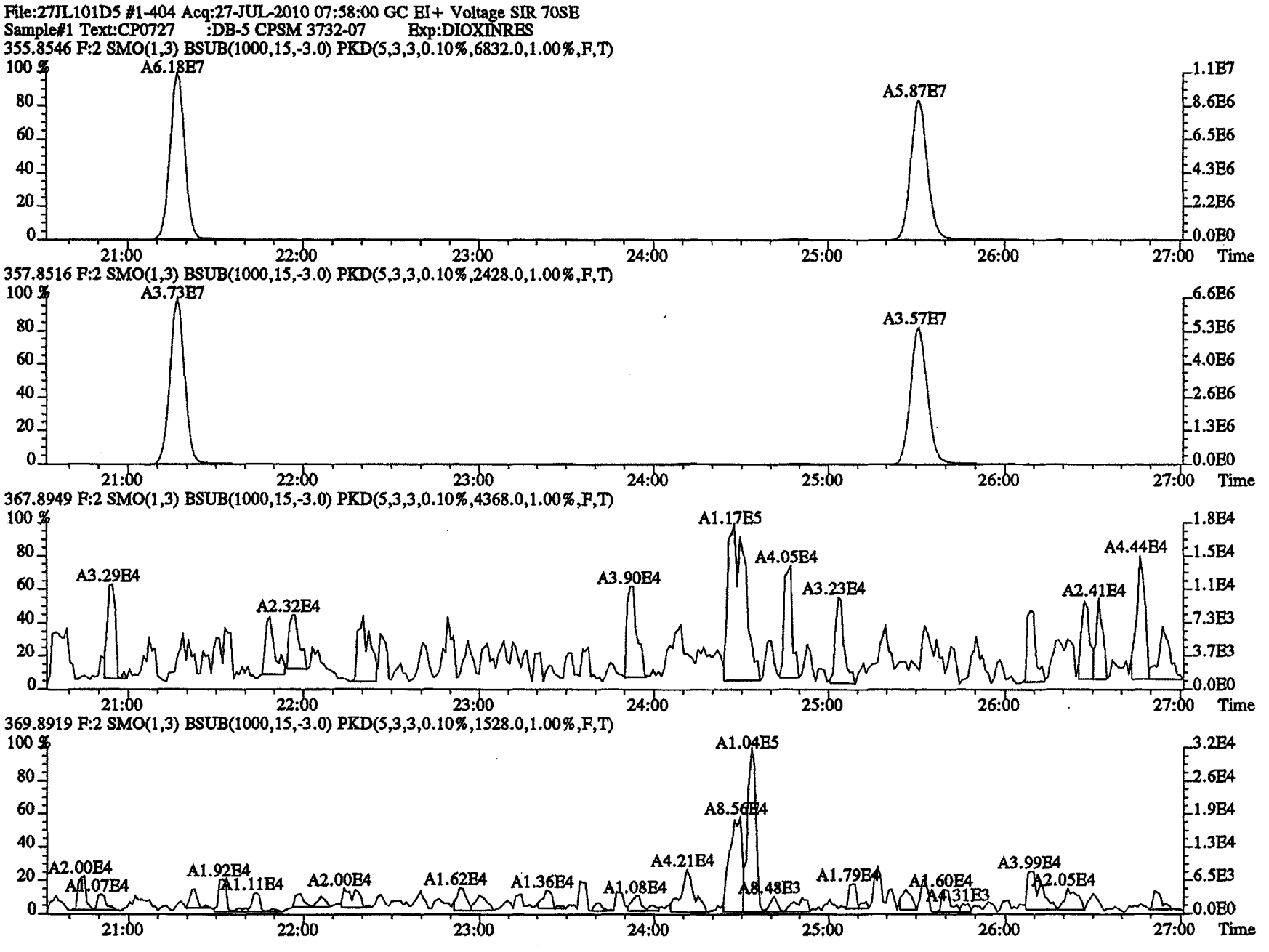
351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1760.0,1.00%,F,T)



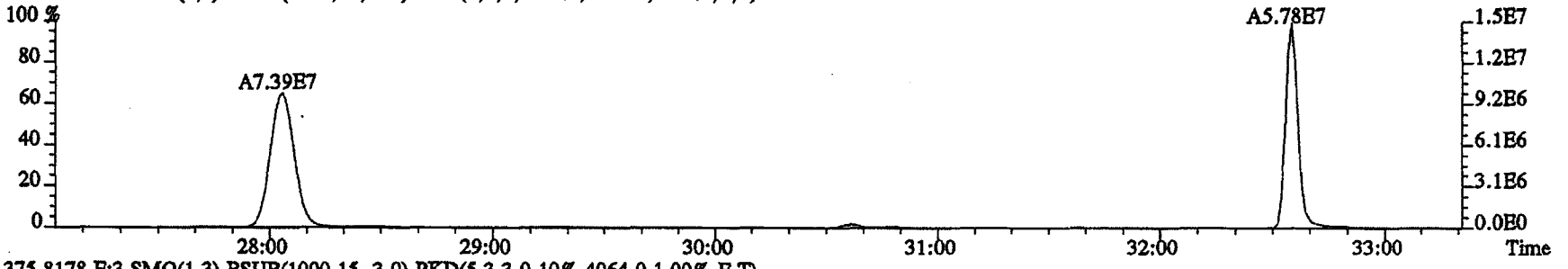
353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2040.0,1.00%,F,T)

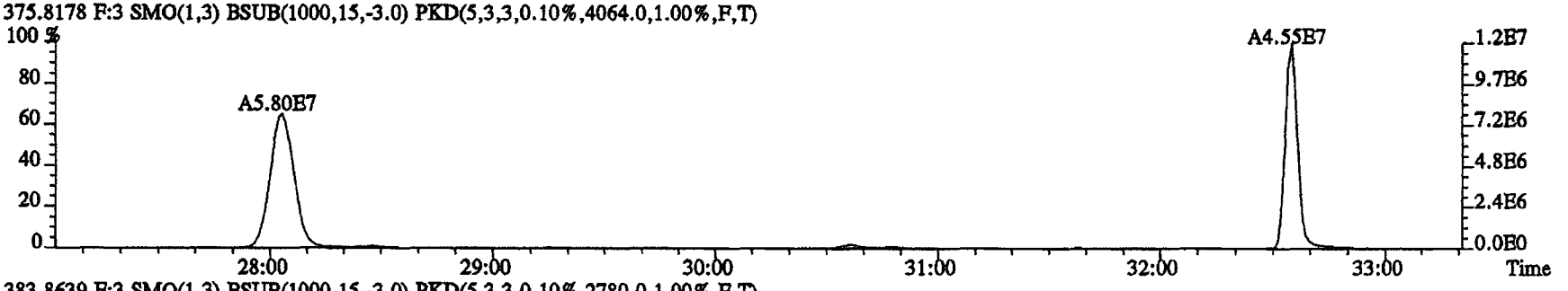


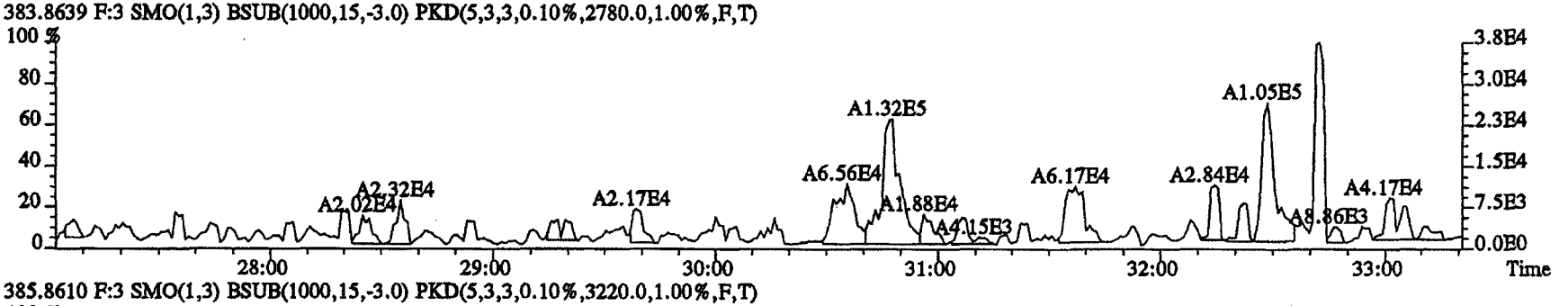

File:27JL101D5 #1-382 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2492.0,1.00%,F,T)
A1.06E8
341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4308.0,1.00%,F,T)
A6.57E7
409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,496.0,1.00%,F,T)
14:25
14:37
14:58
15:11
15:37
15:54
16:11
16:24
16:39
16:51
17:01
17:29
17:34
17:49
18:11
18:29
18:41
18:49
18:58
19:02
19:22
19:35
19:44
19:57
20:06
Time

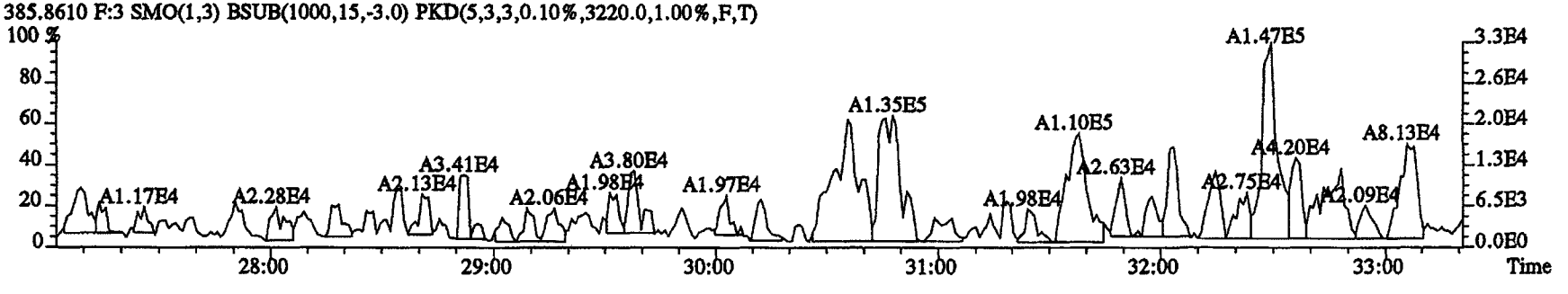


File:27JL101D5 #1-406 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES

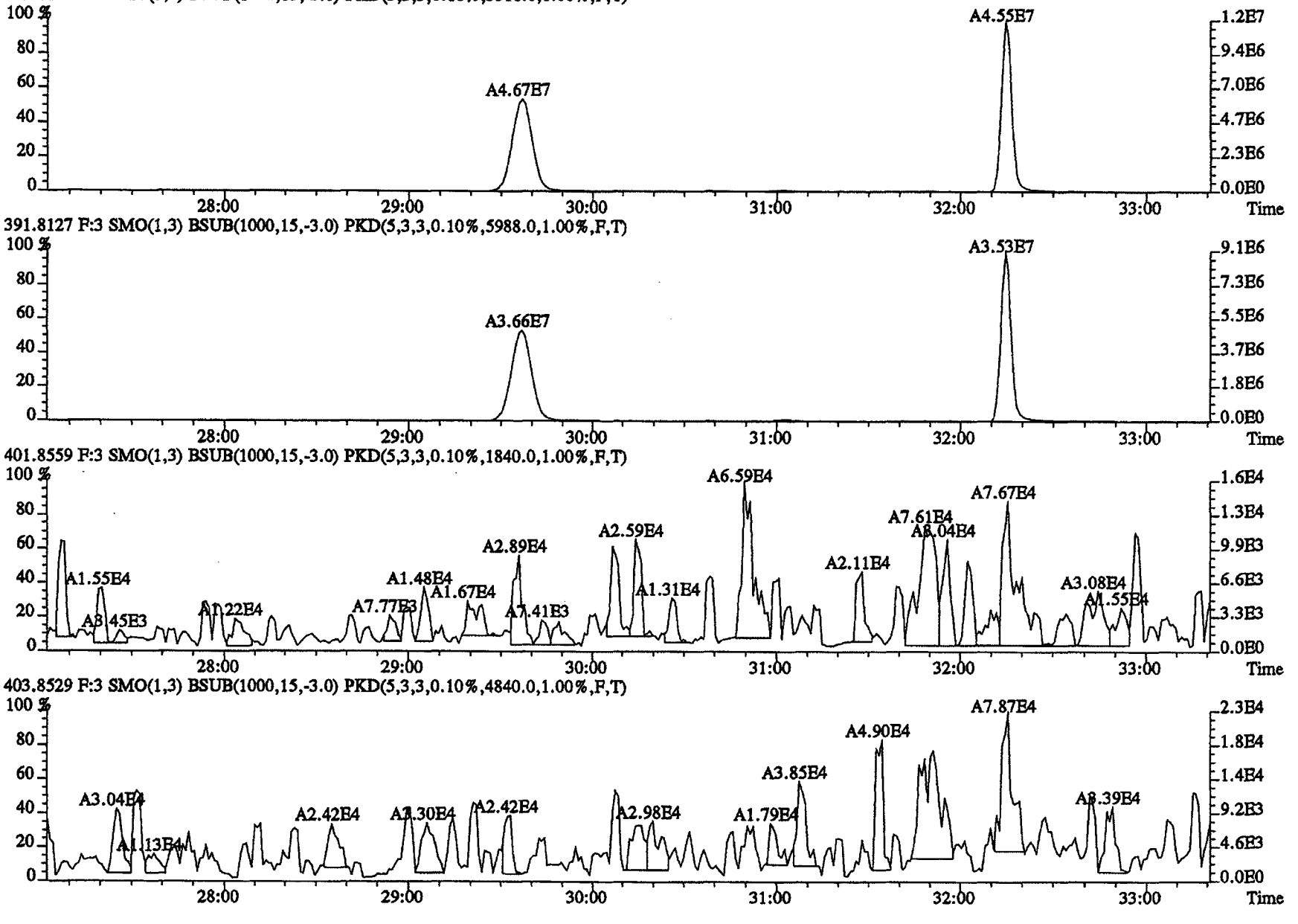






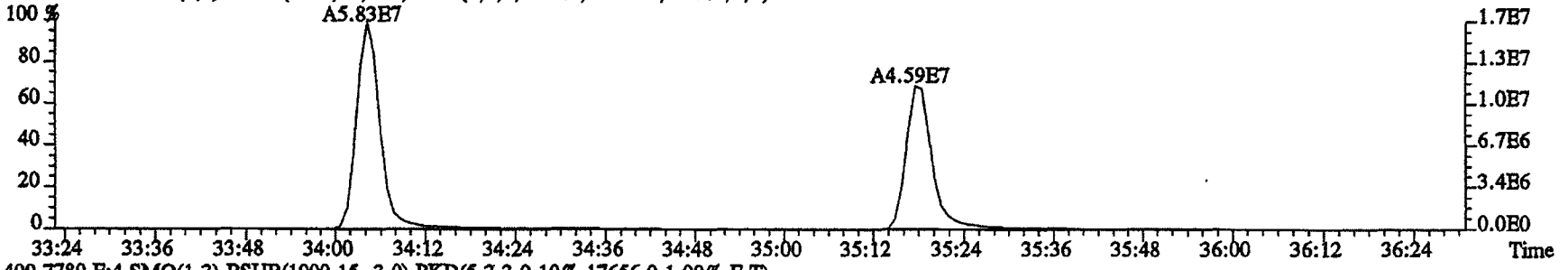


File:27JL101D5 #1-406 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES

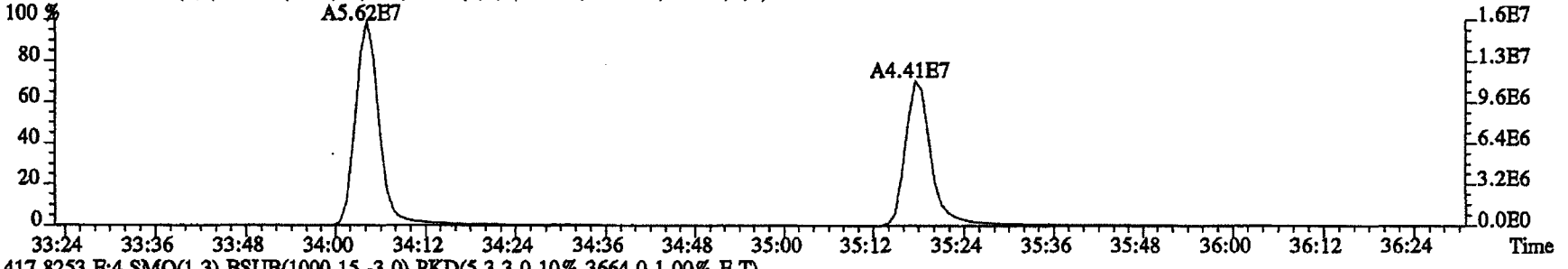


File:27JL101D5 #1-214 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES

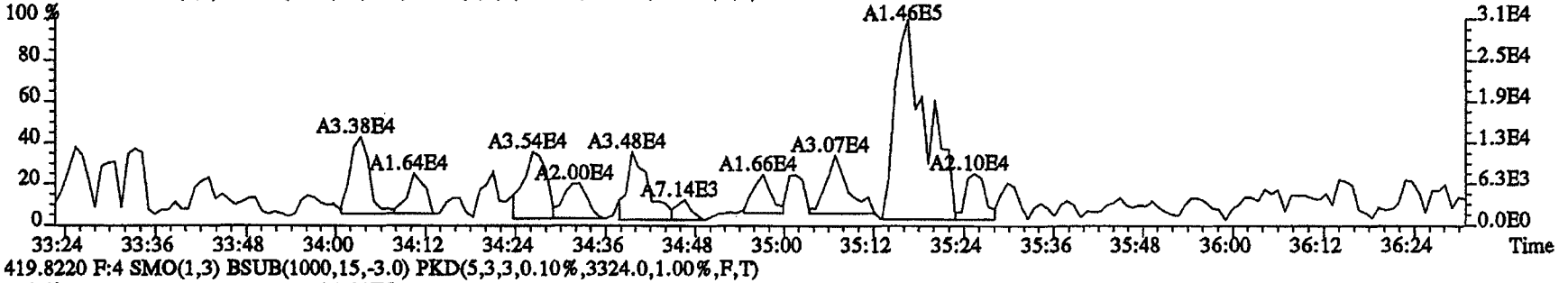
407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16016.0,1.00%,F,T)



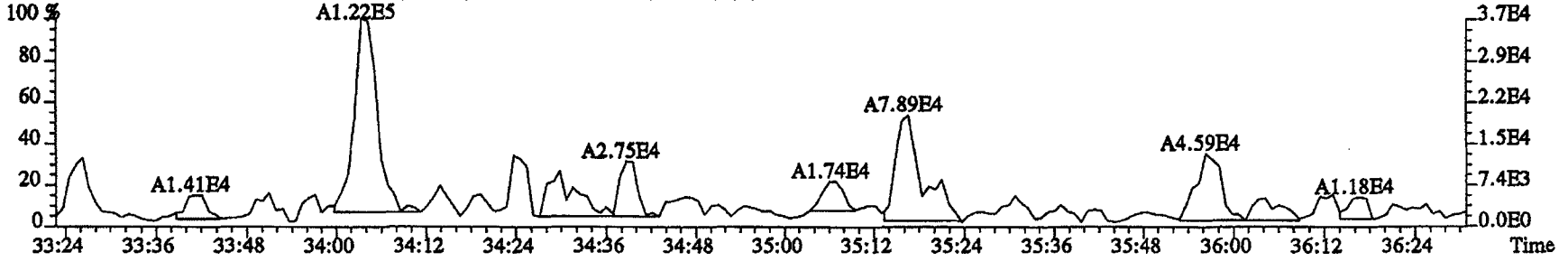
409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17656.0,1.00%,F,T)



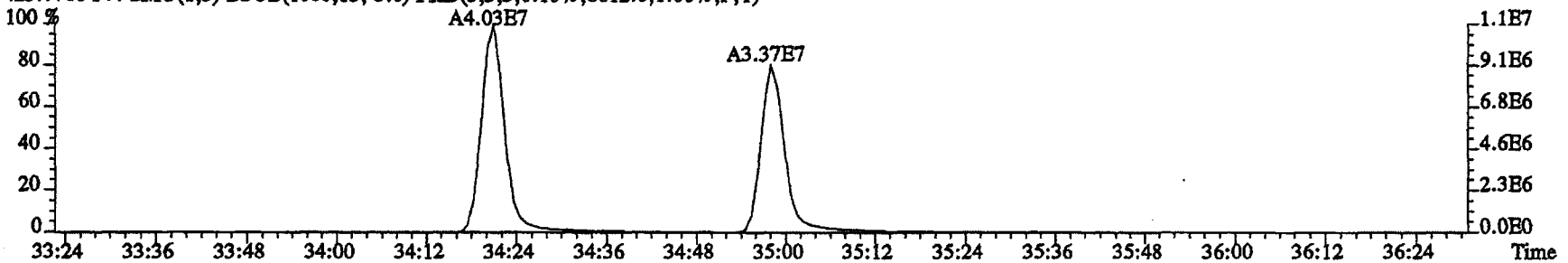
417.8253 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3664.0,1.00%,F,T)



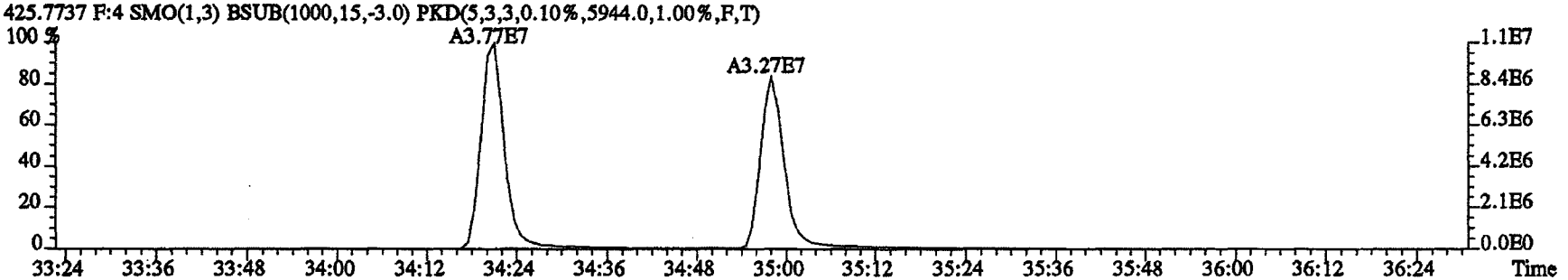
419.8220 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)



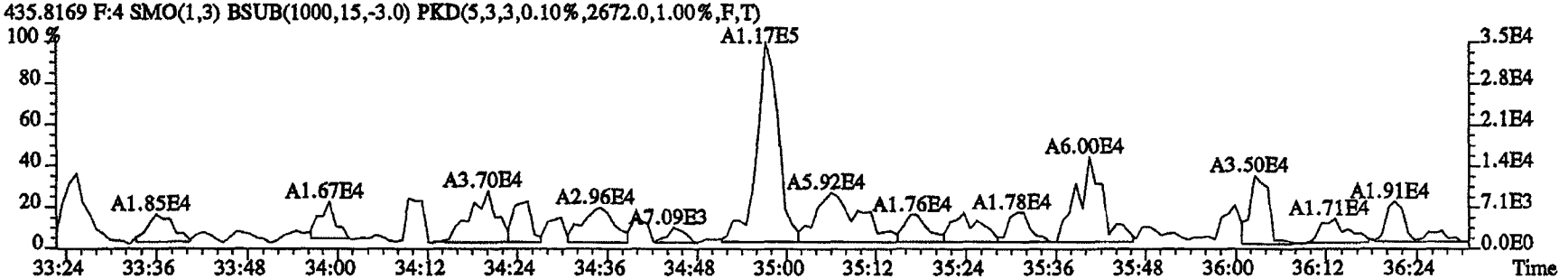
File:27JL101D5 #1-214 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6612.0,1.00%,F,T)



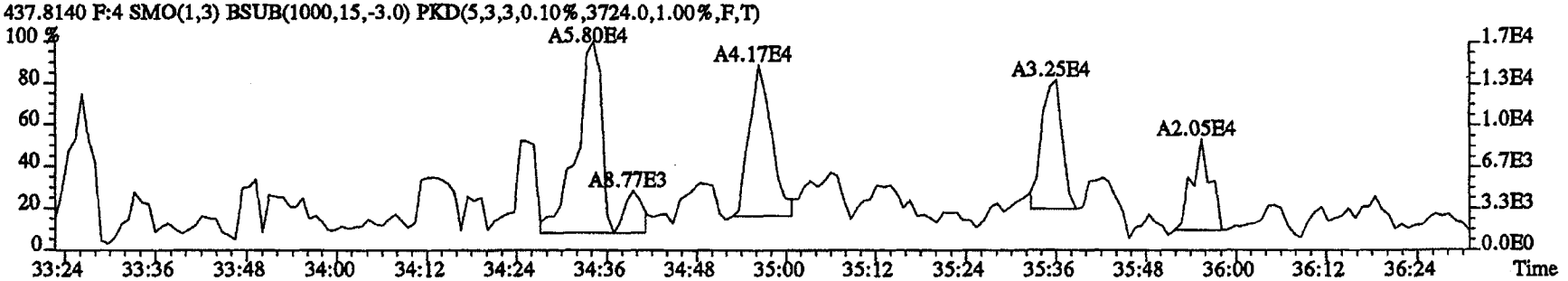
425.7737 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5944.0,1.00%,F,T)



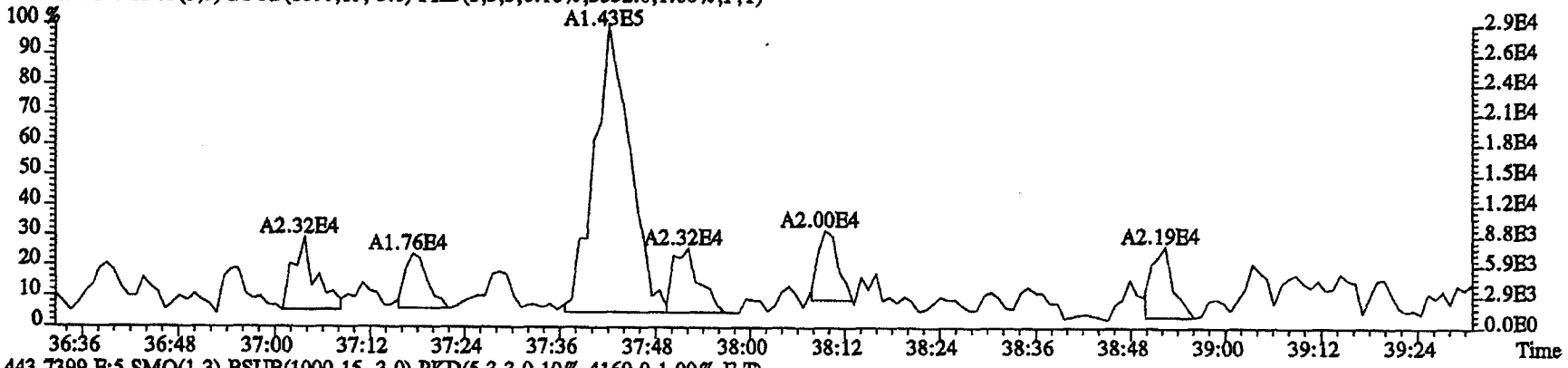
435.8169 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



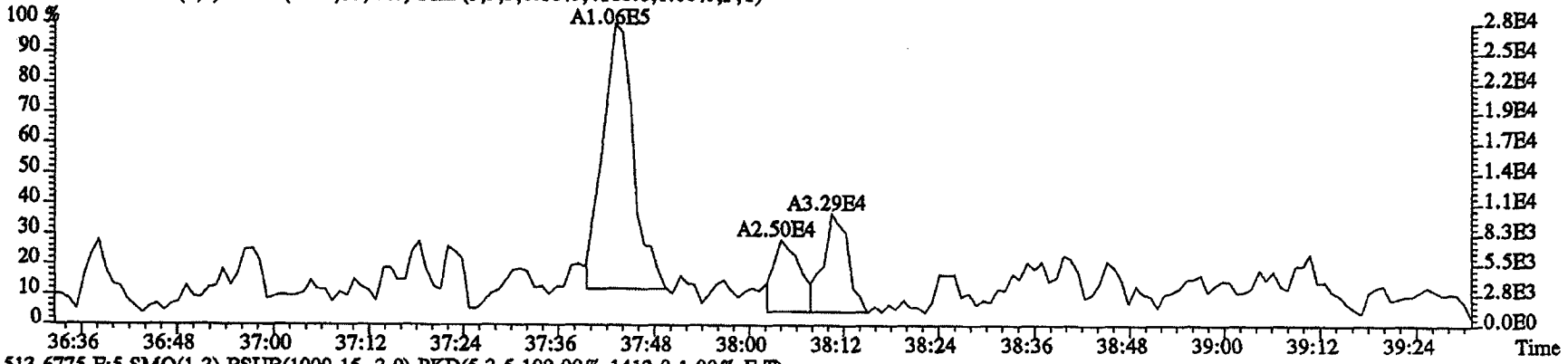
437.8140 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3724.0,1.00%,F,T)



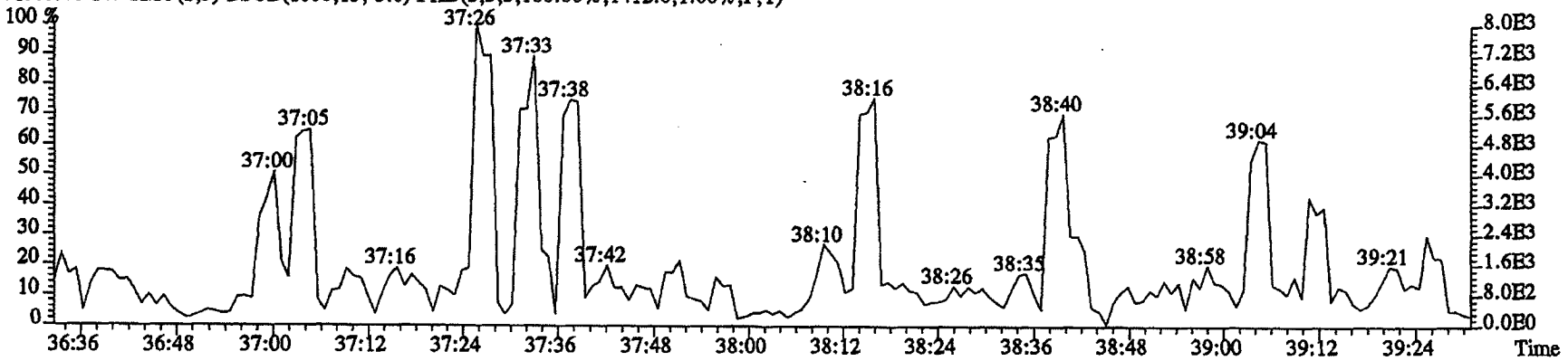
File:27JL101D5 #1-196 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3532.0,1.00%,F,T)



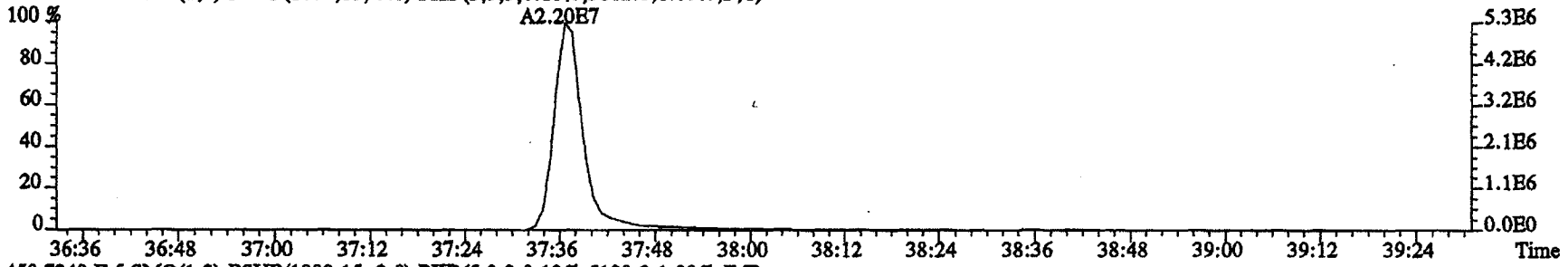
443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4160.0,1.00%,F,T)



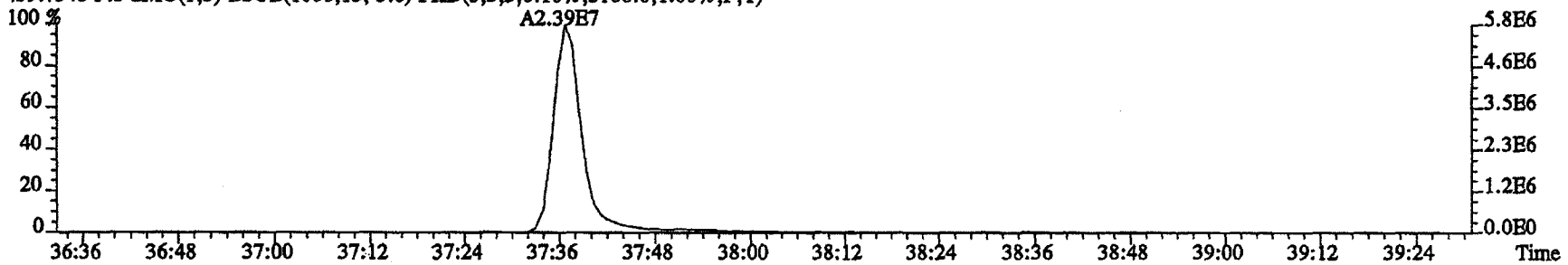
513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1412.0,1.00%,F,T)



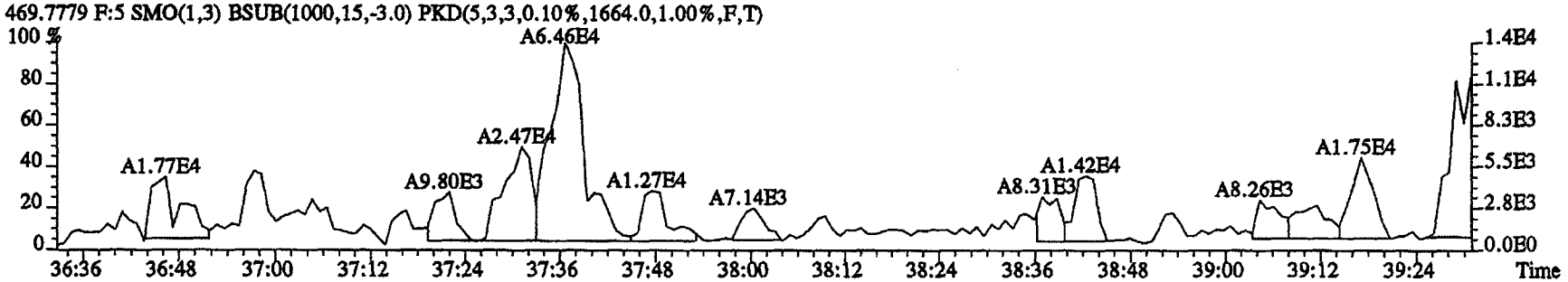
File:27JL101D5 #1-196 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3812.0,1.00%,F,T)



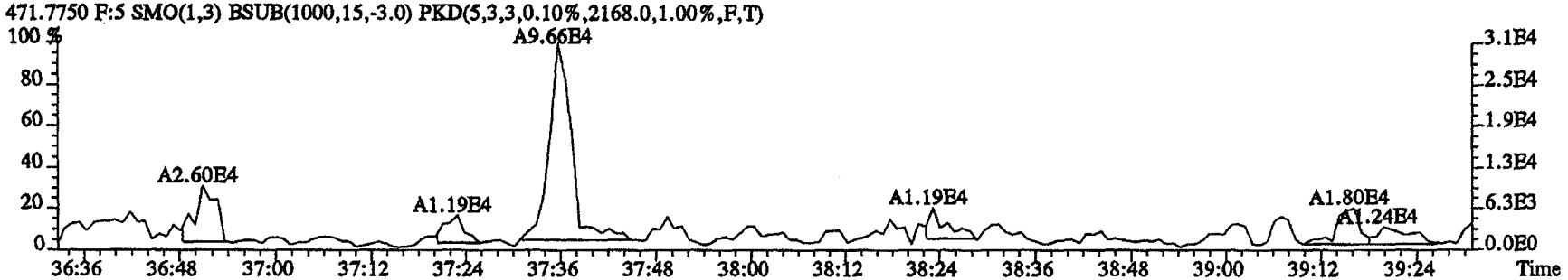
459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5108.0,1.00%,F,T)

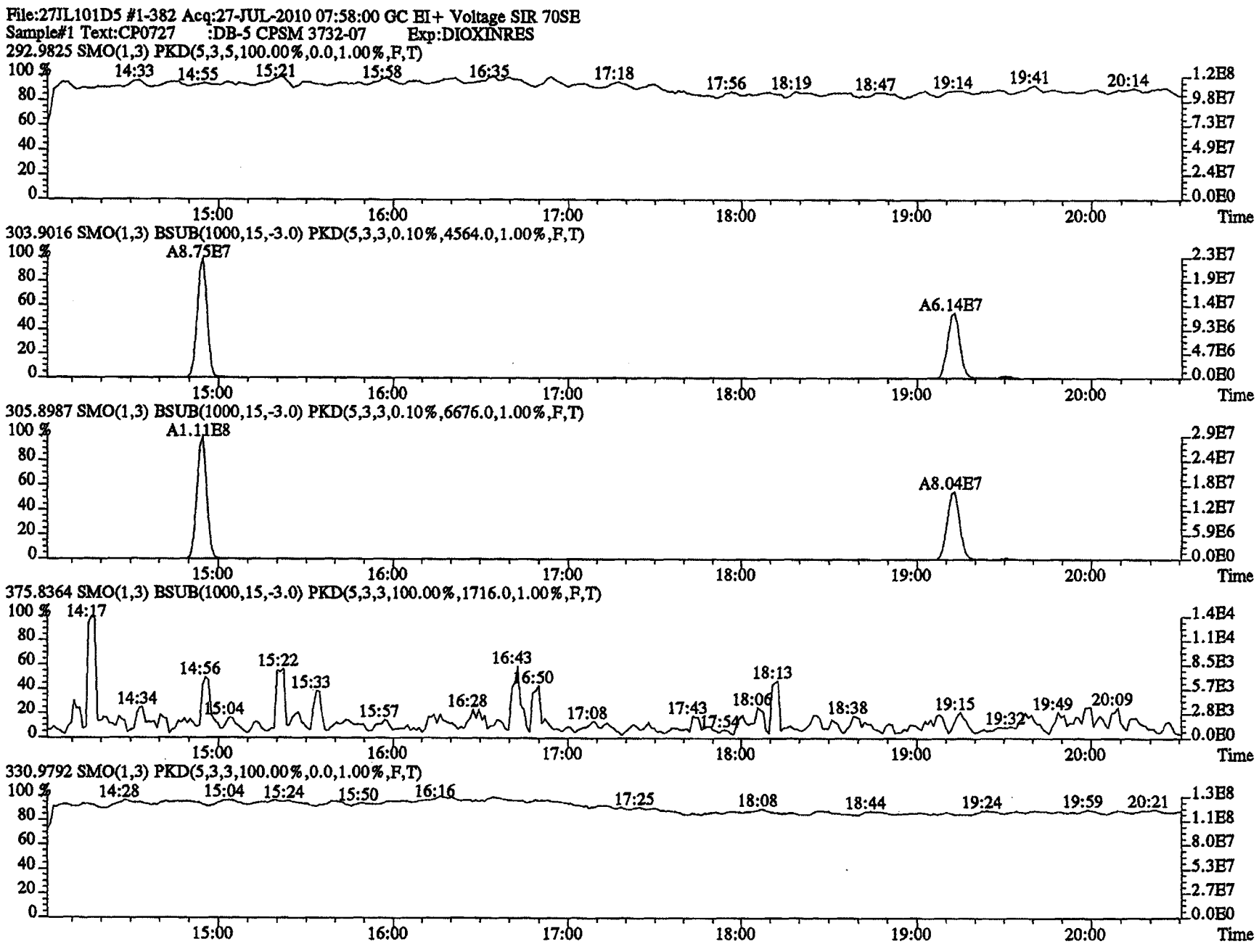


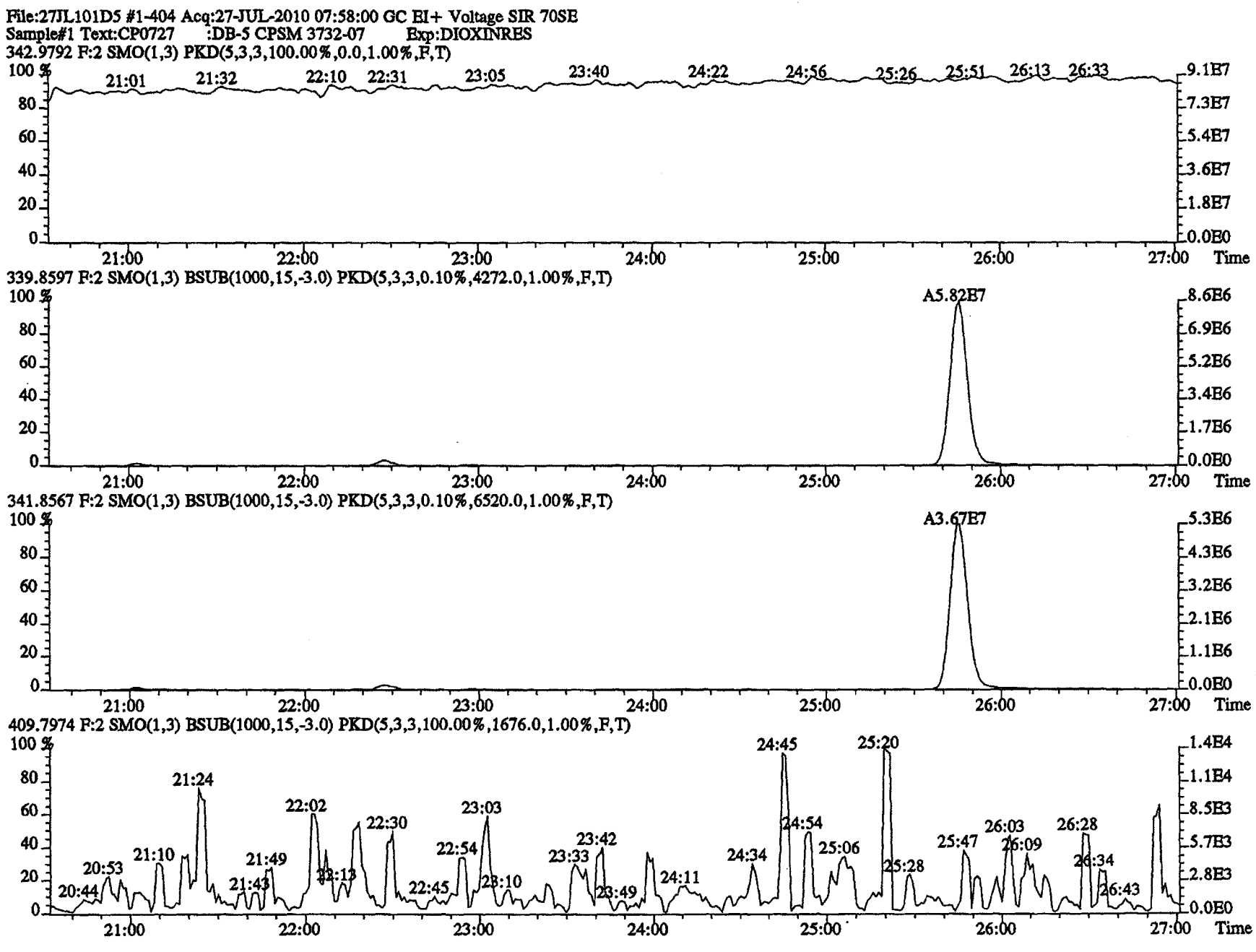
469.7779 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1664.0,1.00%,F,T)



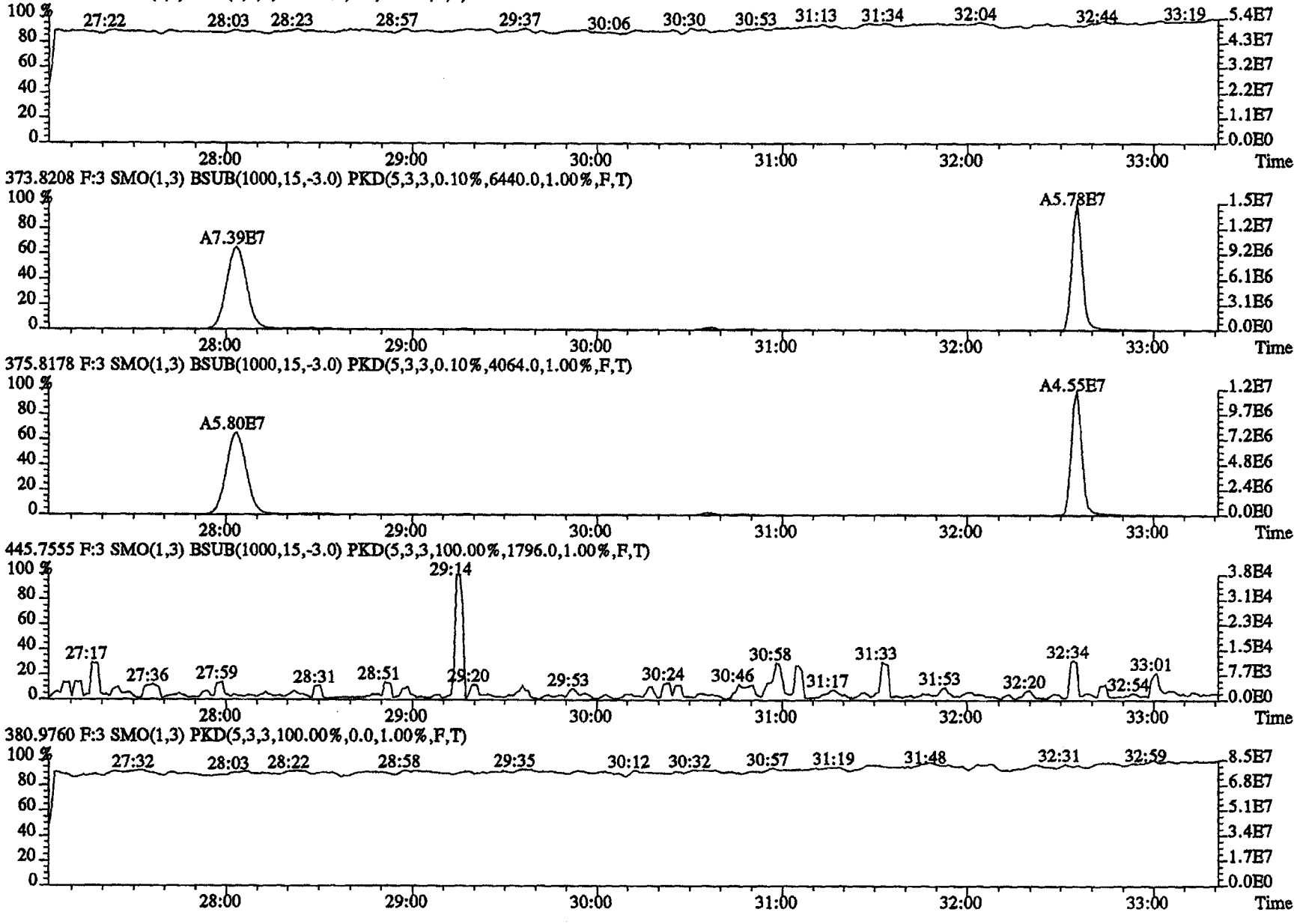
471.7750 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2168.0,1.00%,F,T)

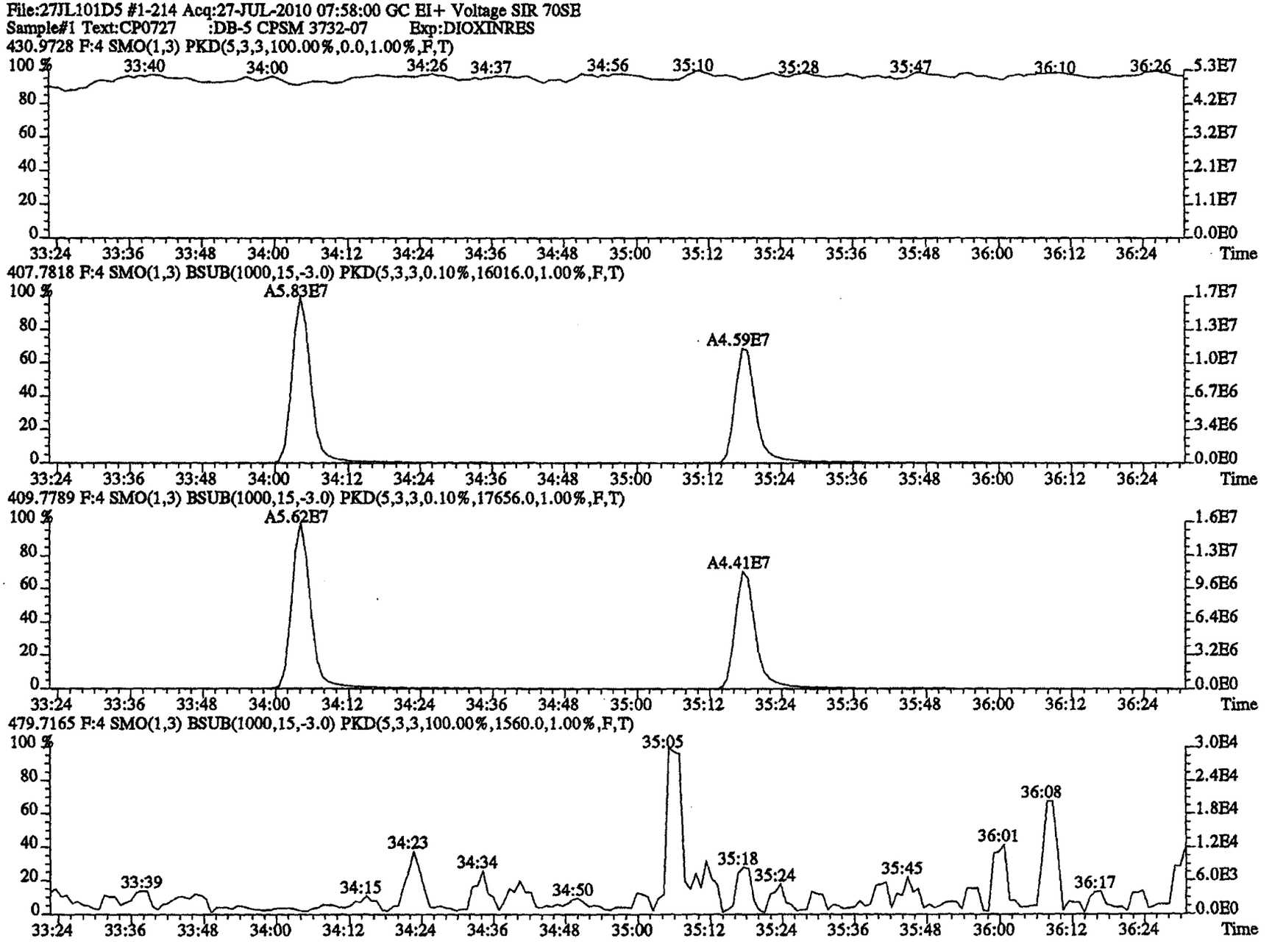




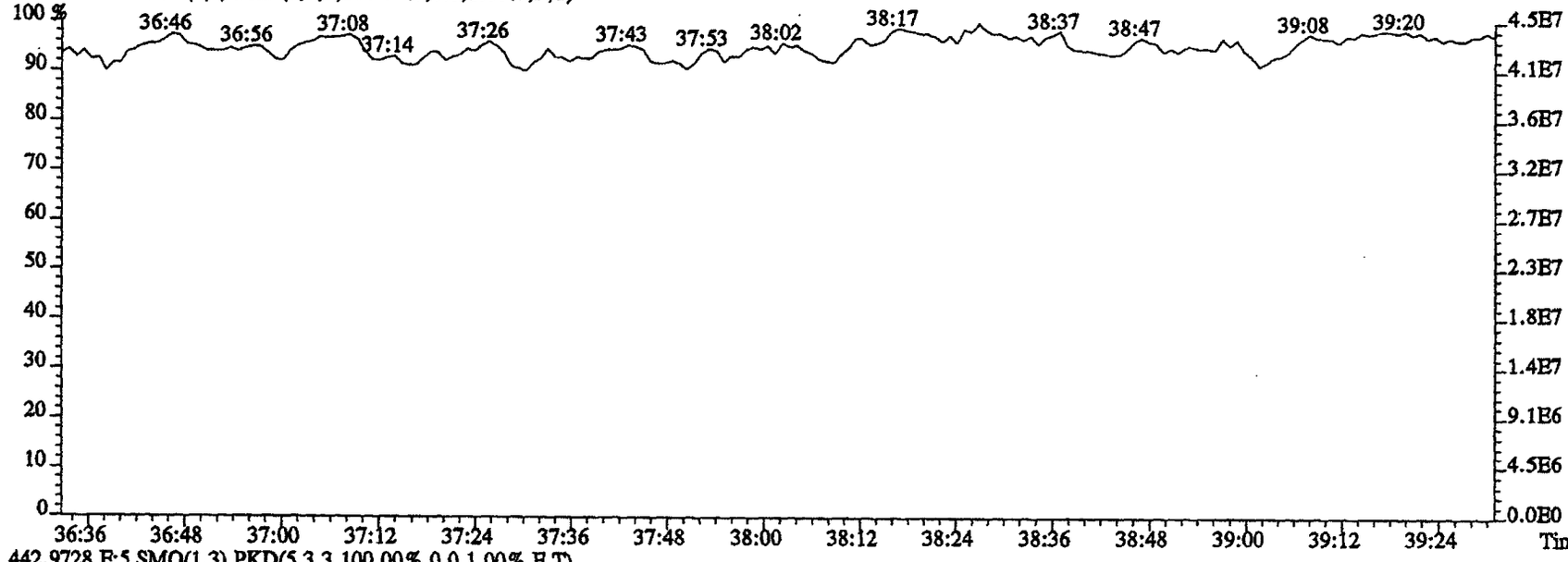


File:27JL101D5 #1-406 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES

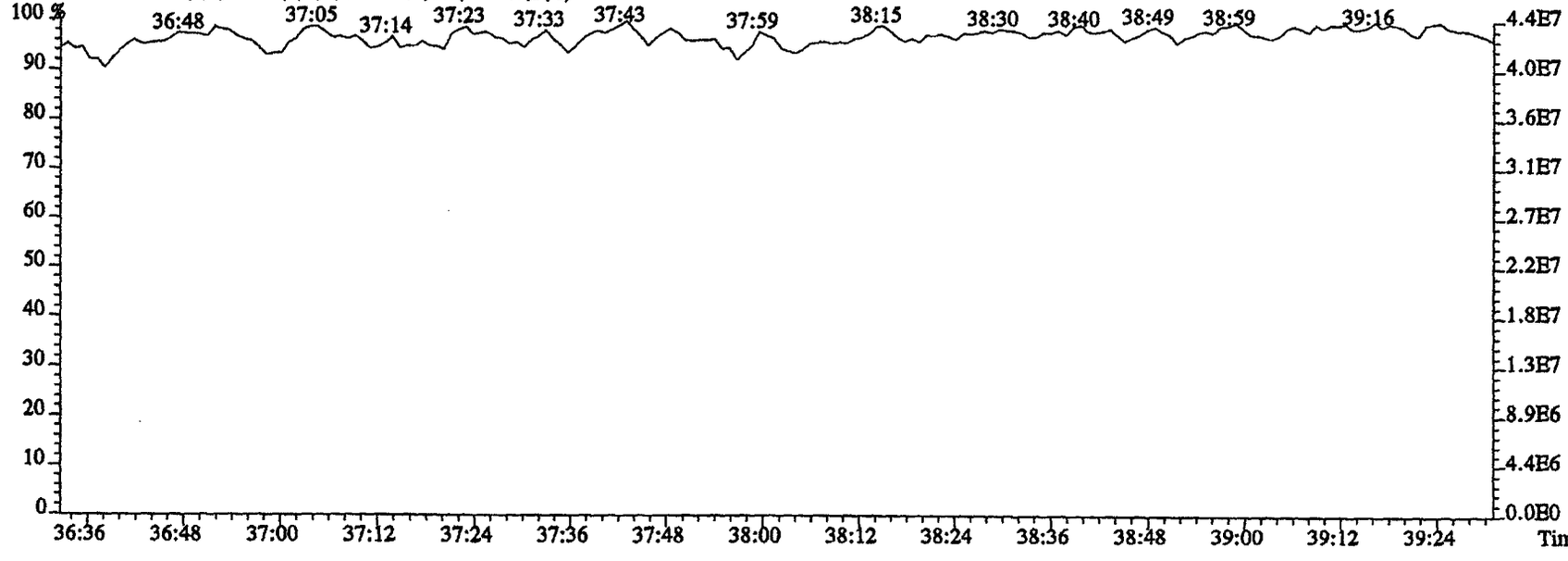




File:27JL101D5 #1-196 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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



Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (DB225, DB225AIR)072610SD2

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

Column ID DB225 Instrument ID SD2

STD ID's ST0726(A, B, C, D, E) STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337, 10DXN339

GC Program DB225 Multiplier Setting 750

Analyzed By KSS Date Analyzed 7-26-10

Prepared By KSS, NIC Date Prepared 7-26-10

Reviewed By KSS Date Reviewed 7/26/10

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

COMMENTS:

CS3 13C-1,2,3,4-TCDD RT = 15:10

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2

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

Name	Mean	S. D.	%RSD	26JL105D2 S6 RRF1	26JL105D2 S5 RRF2	26JL105D2 S7 RRF3	26JL105D2 S9 RRF4	26JL105D2 S8 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.290	0.038	2.92 %	1.28	1.24	1.34	1.28	1.31

Run #1 Filename 26JL105D2 S: 6 I: 1
Acquired: 26-JUL-10 11:25:40 Processed: 26-JUL-10 13:54:47
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2
Comments:
Sample text: ST0726A :CS-1 10DXN342 RI

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	44088800	0.76	y	15:11	-	100.00	n
13C-2,3,7,8-TCDF	94137800	0.80	y	16:22	2.135	100.00	n
2,3,7,8-TCDF	523639	0.72	y	16:23	1.112	0.50	n
13C-2,3,7,8-TCDD	40331700	0.79	y	14:57	0.915	100.00	n
2,3,7,8-TCDD	331274	0.79	y	14:57	1.643	0.50	n
37Cl-2,3,7,8-TCDD	283070	1.00	y	14:57	1.284	0.50	n

Run #2 Filename 26JL105D2 S: 5 I: 1
Acquired: 26-JUL-10 10:33:31 Processed: 26-JUL-10 13:54:47
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2
Comments:
Sample text: ST0726B :CS-2 10DXN335

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	163657200	0.78	y	15:09	-	100.00	n
13C-2,3,7,8-TCDF	341921000	0.80	y	16:22	2.089	100.00	n
2,3,7,8-TCDF	7128550	0.76	y	16:22	1.042	2.00	n
13C-2,3,7,8-TCDD	142455600	0.77	y	14:55	0.870	100.00	n
2,3,7,8-TCDD	4759860	0.82	y	14:57	1.671	2.00	n
37Cl-2,3,7,8-TCDD	4046840	1.00	y	14:57	1.236	2.00	n

Run #3 Filename 26JL105D2 S: 7 I: 1
Acquired: 26-JUL-10 11:59:28 Processed: 26-JUL-10 13:54:48
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2
Comments:
Sample text: ST0726C :CS-3 10DXN336

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	128251800	0.79	y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	272023000	0.80	y	16:22	2.121	100.00	n
2,3,7,8-TCDF	27756400	0.79	y	16:23	1.020	10.00	n
13C-2,3,7,8-TCDD	116269100	0.80	y	14:56	0.907	100.00	n
2,3,7,8-TCDD	18681120	0.82	y	14:57	1.607	10.00	n
37Cl-2,3,7,8-TCDD	17122860	1.00	y	14:58	1.335	10.00	n

Run #4 Filename 26JL105D2 S: 9 I: 1
Acquired: 26-JUL-10 13:07:04 Processed: 26-JUL-10 13:54:49
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2
Comments:
Sample text: ST0726E :CS-4 10DXN337

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	123056800	0.79	y	15:08	-	100.00	n
13C-2,3,7,8-TCDF	250112000	0.82	y	16:21	2.032	100.00	n
2,3,7,8-TCDF	106424800	0.78	y	16:22	1.064	40.00	n
13C-2,3,7,8-TCDD	105587000	0.78	y	14:54	0.858	100.00	n
2,3,7,8-TCDD	69020900	0.83	y	14:55	1.634	40.00	n
37Cl-2,3,7,8-TCDD	62912400	1.00	y	14:55	1.278	40.00	n

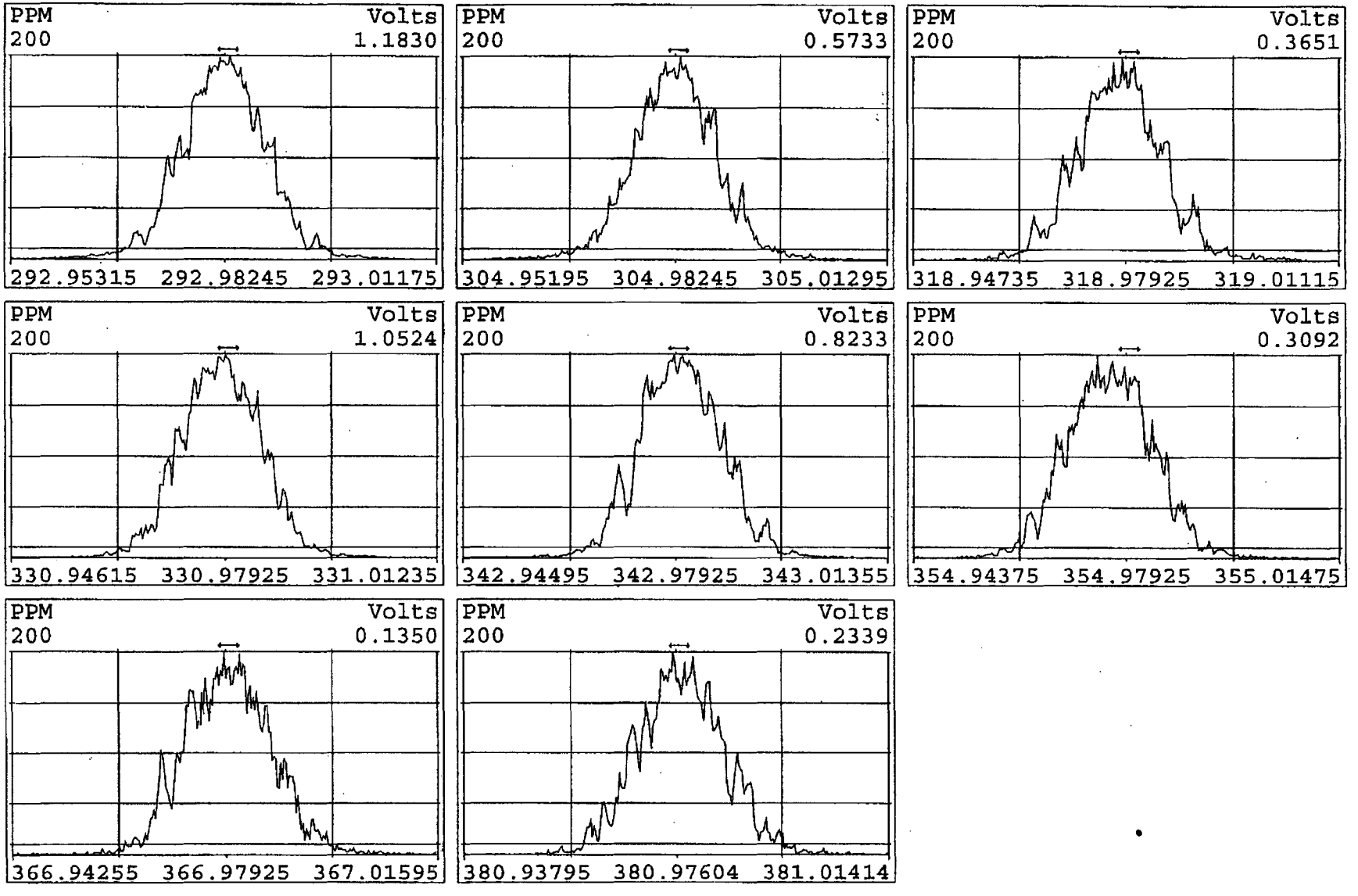
Run #5 Filename 26JL105D2 S: 8 I: 1
Acquired: 26-JUL-10 12:33:16 Processed: 26-JUL-10 13:54:50
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2
Comments:
Sample text: ST0726D :CS-5 10DXN339

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	131444700	0.78	y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	286396000	0.80	y	16:22	2.179	100.00	n
2,3,7,8-TCDF	596616000	0.78	y	16:23	1.042	200.00	n
13C-2,3,7,8-TCDD	114849700	0.78	y	14:56	0.874	100.00	n
2,3,7,8-TCDD	373245000	0.82	y	14:57	1.625	200.00	n
37Cl-2,3,7,8-TCDD	345562000	1.00	y	14:57	1.314	200.00	n

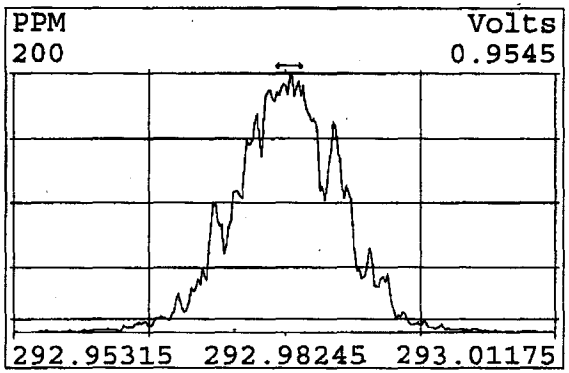
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
26JL105D2	1	CP0726	DB-225 CPSM 3732-06				1.0000	
26JL105D2	2	SB0726	Solvent Blank C-14				1.0000	
26JL105D2	3	ST0726	CS-0.2 10DXN333				1.0000	
26JL105D2	4	ST0726A	CS-1 10DXN342				1.0000	
26JL105D2	5	ST0726B	CS-2 10DXN335				1.0000	
26JL105D2	6	ST0726A	CS-1 10DXN342 RI				1.0000	
26JL105D2	7	ST0726C	CS-3 10DXN336				1.0000	
26JL105D2	8	ST0726D	CS-5 10DXN339				1.0000	
26JL105D2	9	ST0726E	CS-4 10DXN337				1.0000	
26JL105D2	10	ST0726F	2nd Source 10DXN340				1.0000	
26JL105D2	11						1.0000	
26JL105D2	12						1.0000	
26JL105D2	13						1.0000	
26JL105D2	14		KSS 07/26/10				1.0000	

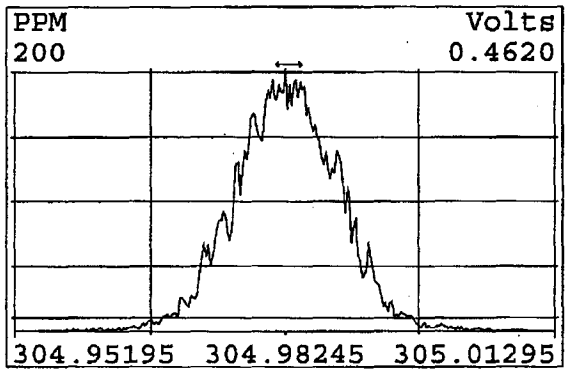
logfile v'd
NK 7/26/10

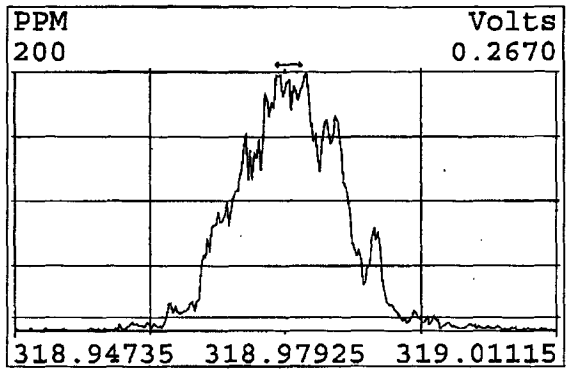
Peak Locate Examination:26-JUL-2010:08:17 File:26JL105D2
Experiment:DB225RES Function:1 Reference:PFK

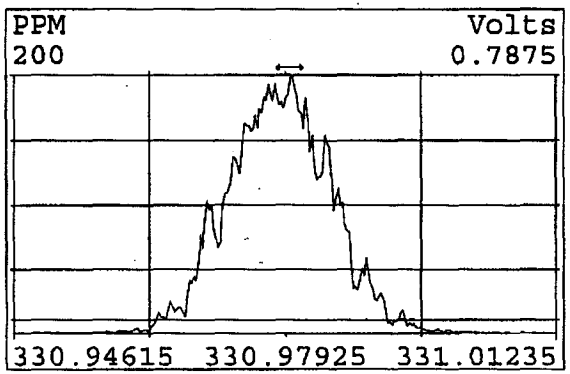


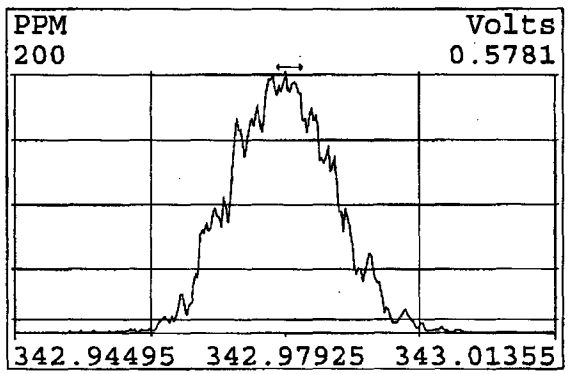
Peak Locate Examination:26-JUL-2010:14:43 File:26JL105D2ENDRES
Experiment:DB225RES Function:1 Reference:PFK

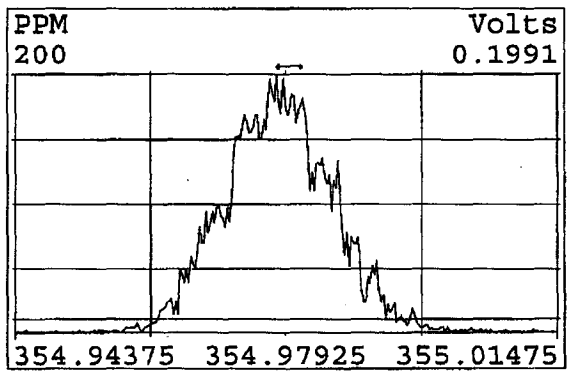


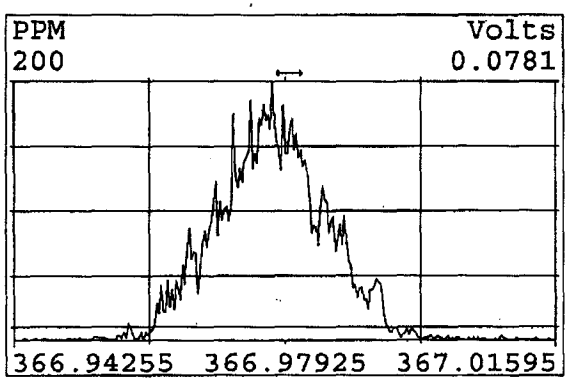


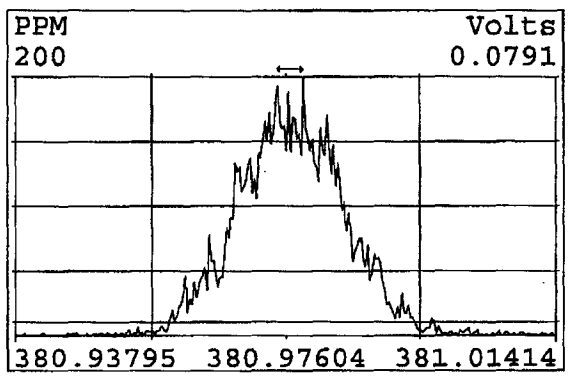




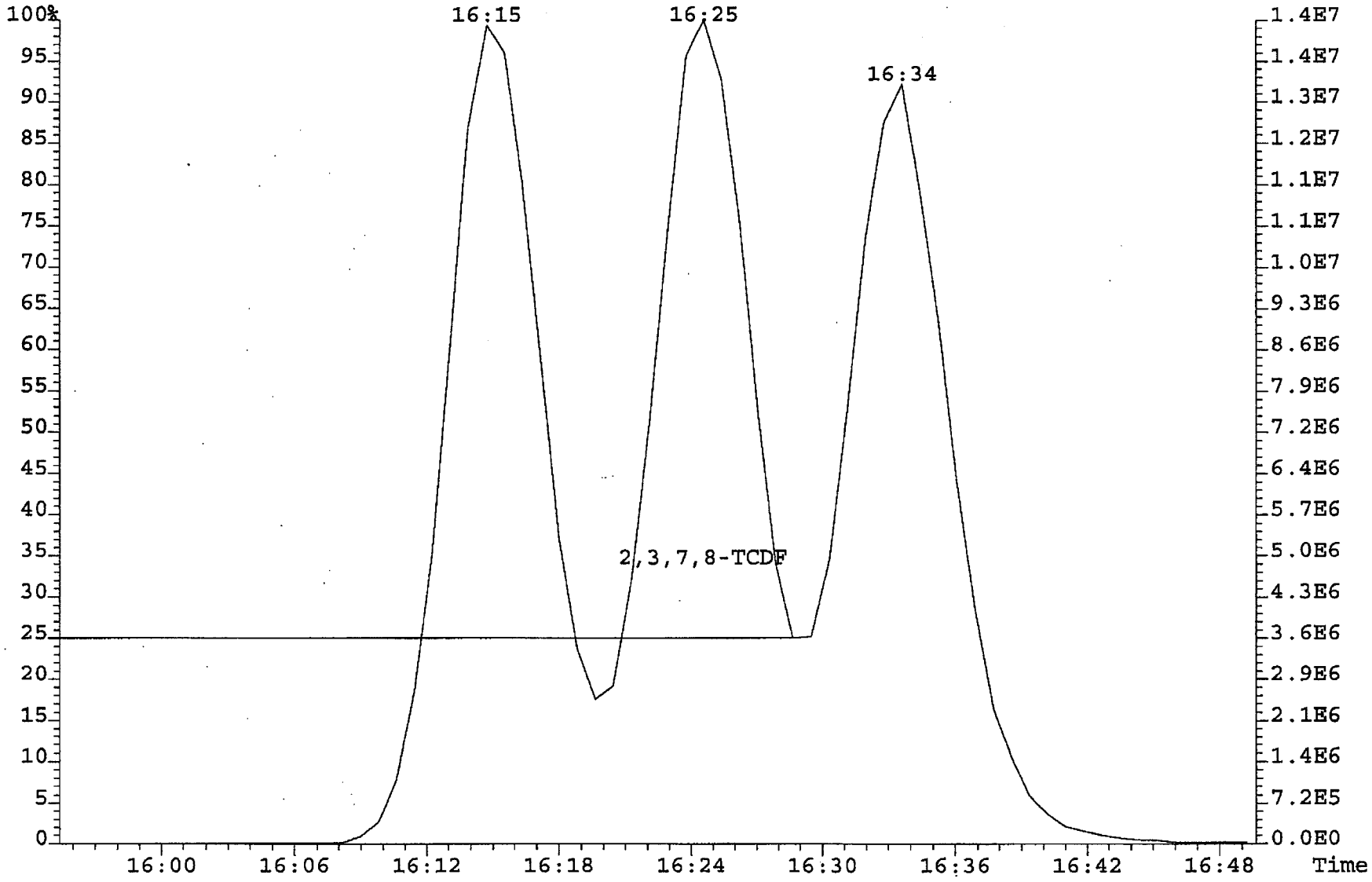








File:26JL105D2 #1-720 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
303.9016 BSUB(128,15,-3.0) Exp:DB225RES Noise:1410

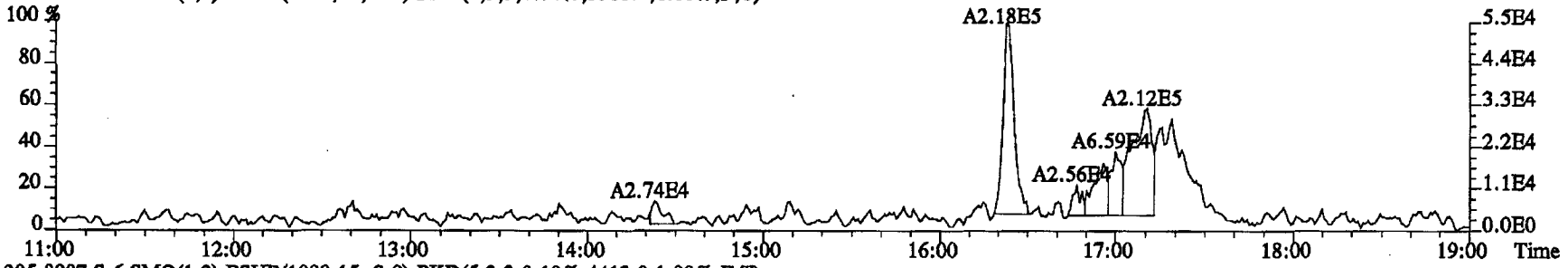


Run text: ST0726F Sample text: ST0726F :2nd Source 10DXN340
Run #6 Filename: 26JL105D2 S: 10 I: 1 Results: 26JL105D2DB225
Acquired: 26-JUL-10 13:40:52 Processed: 26-JUL-10 14:33:34
Run: 26JL105D2 Analyte: DB225 Cal: DB2250726105D2
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

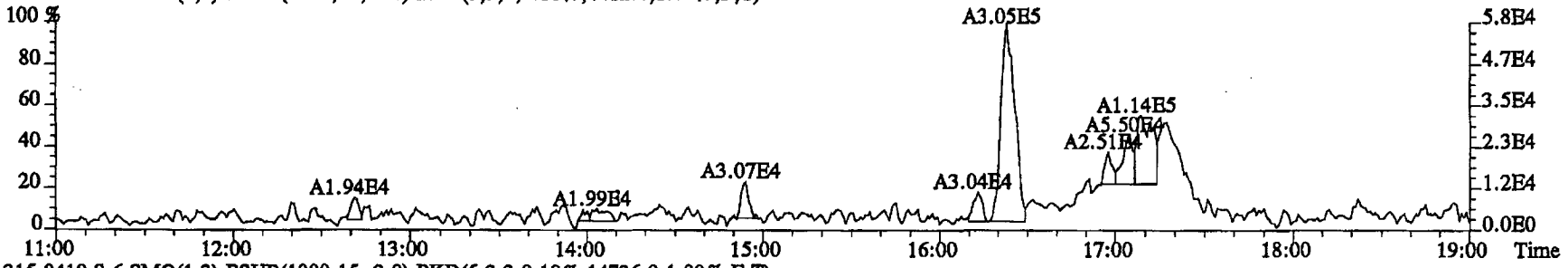
Spiked @ 200 7/26/10 KSS

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	117485800	0.79	y	15:10	-	99.48	-	-	n
13C-2,3,7,8-TCDF	262969000	0.78	y	16:22	2.11	2120.25	5.39	106.0	n
2,3,7,8-TCDF	25049900	0.79	y	16:23	1.06	180.39 ✓ 90%	1.31	-	n
13C-2,3,7,8-TCDD	111918800	0.79	y	14:56	0.88	2153.49	7.15	107.7	n
2,3,7,8-TCDD	17243860	0.81	y	14:57	1.64	188.37 ✓ 94%	1.74	-	n
37Cl-2,3,7,8-TCDD	31323200	1.00	y	14:57	1.29	413.47	2.68	103.4	n

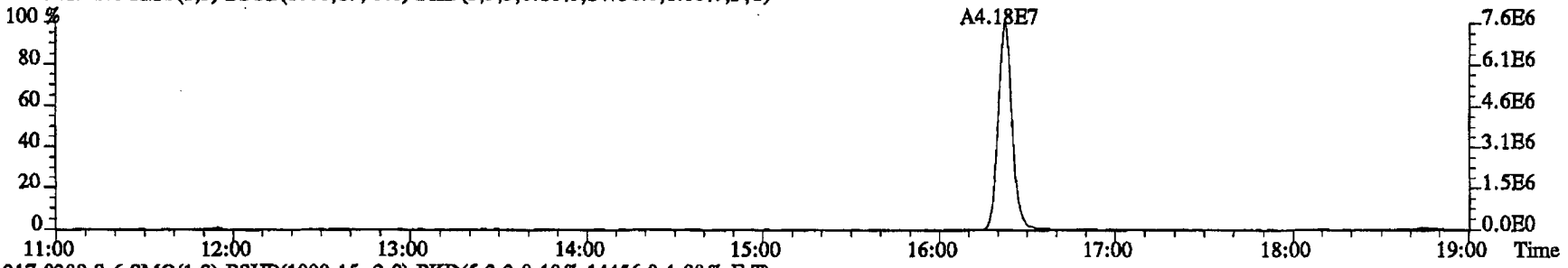
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)



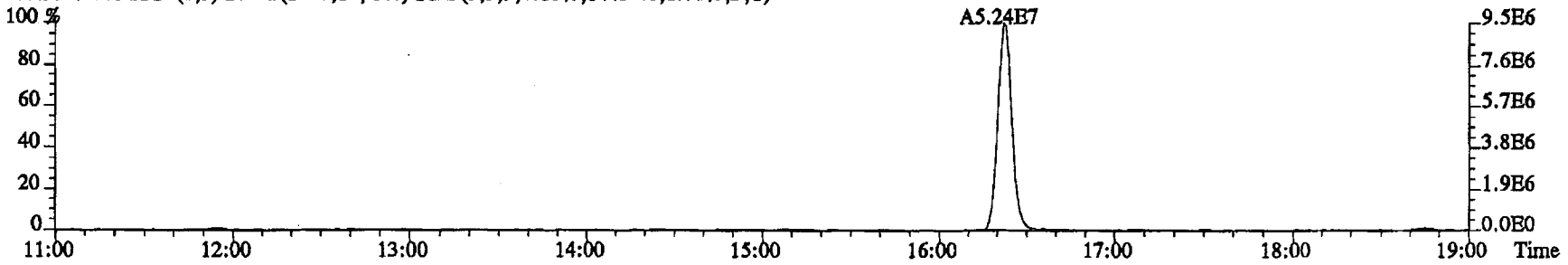
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4412.0,1.00%,F,T)

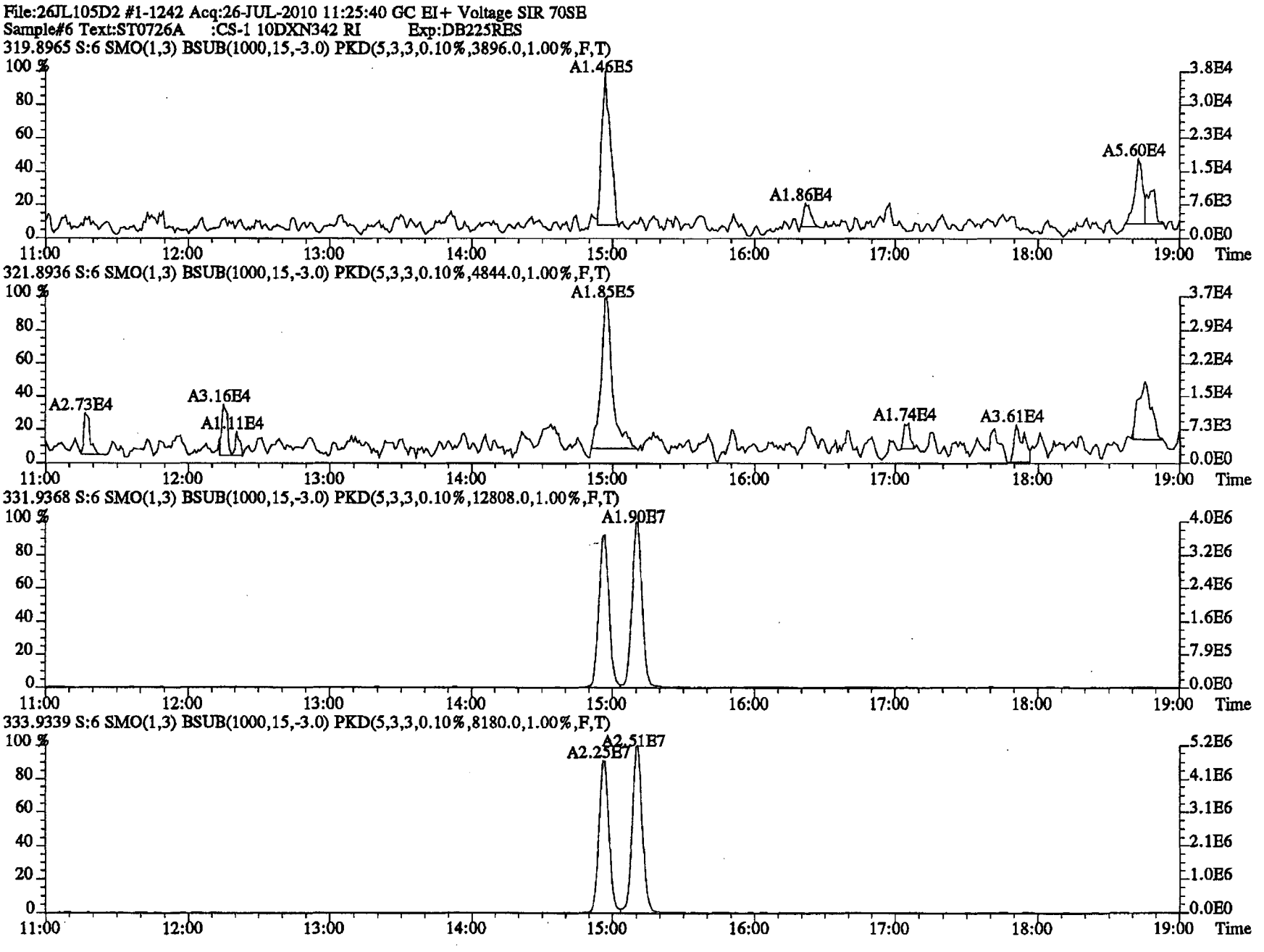


315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14736.0,1.00%,F,T)

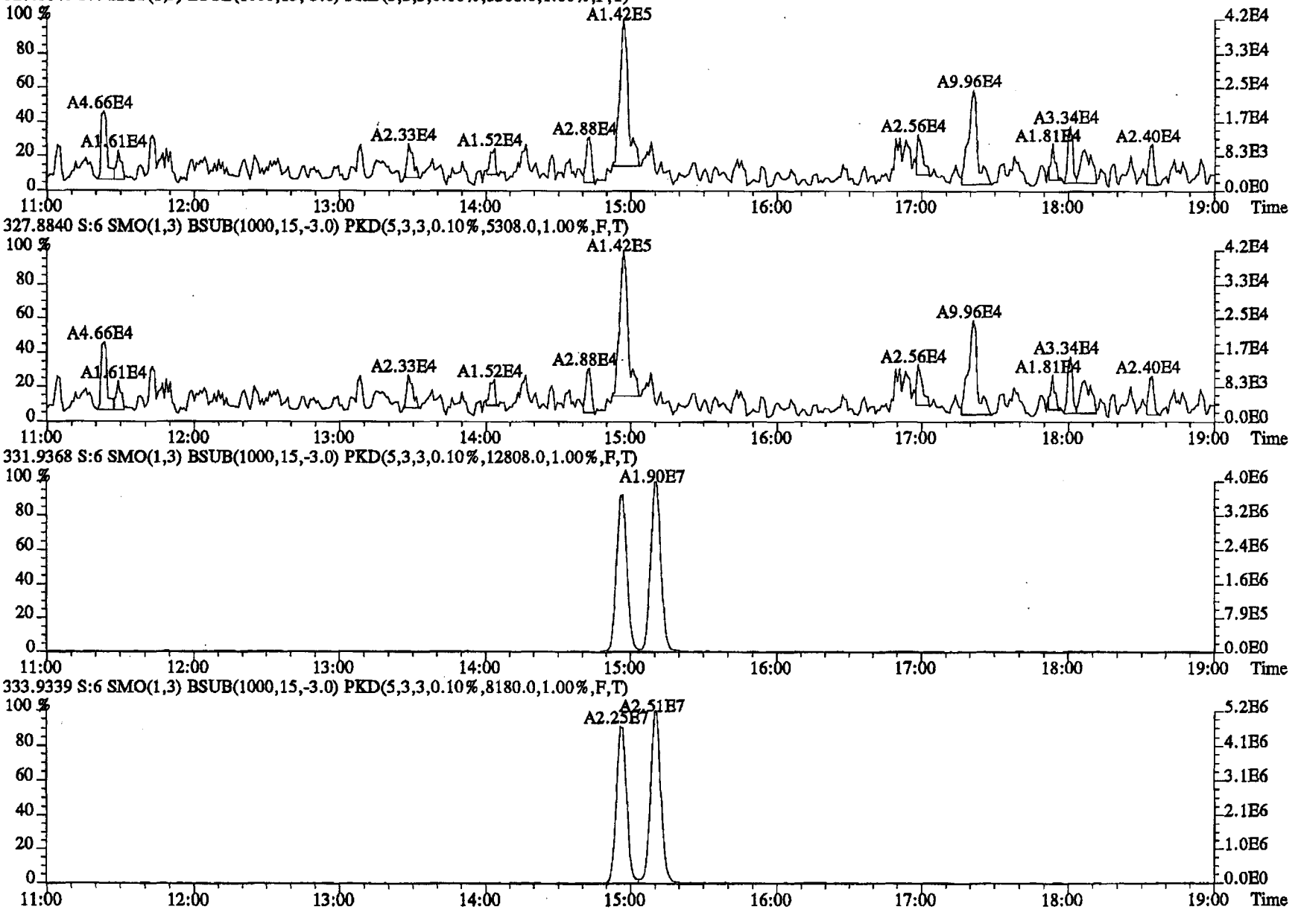


317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14456.0,1.00%,F,T)

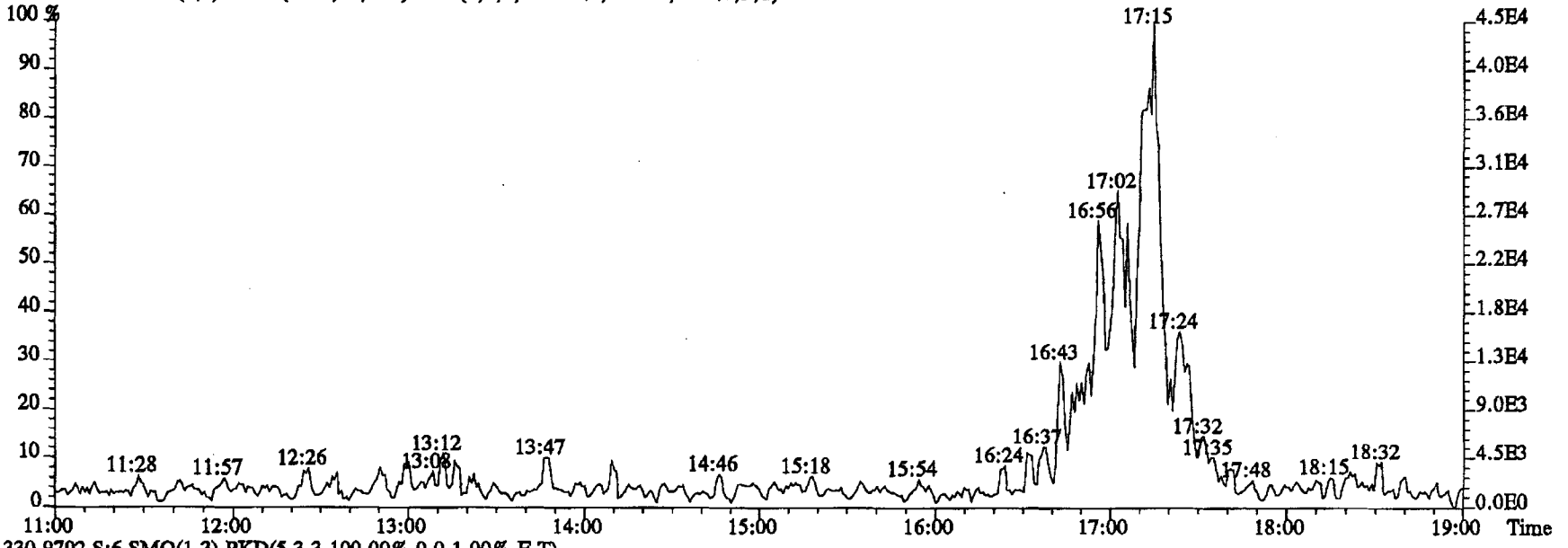




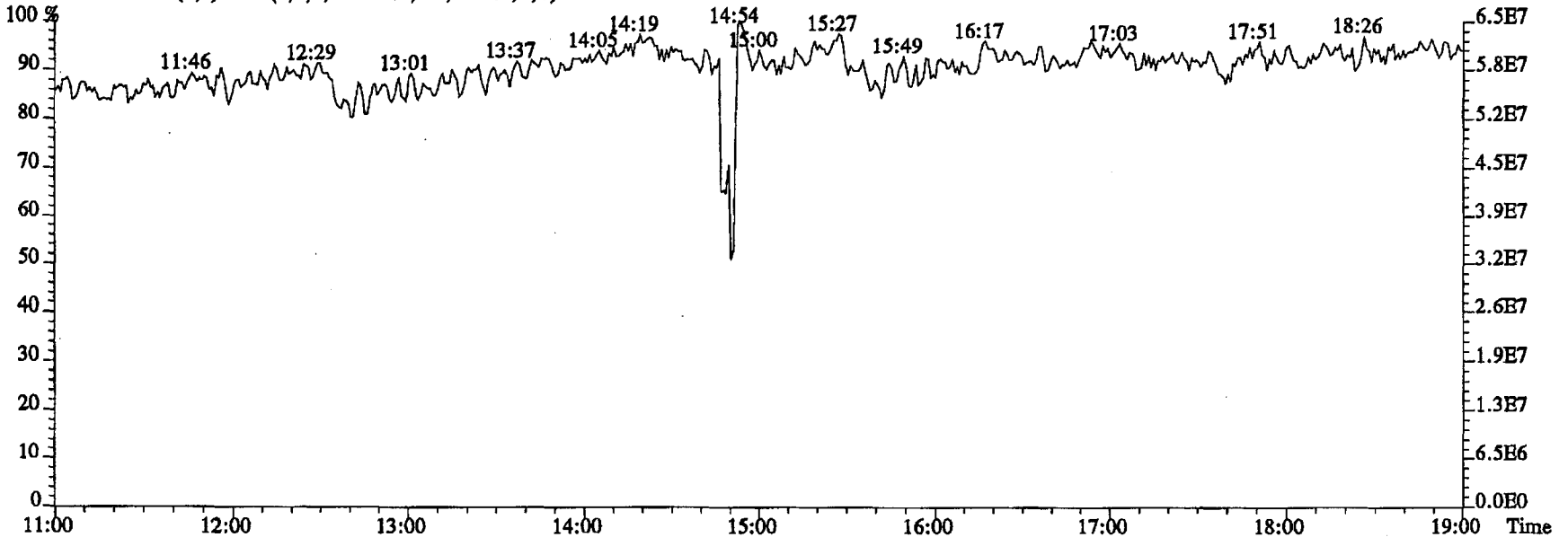
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES



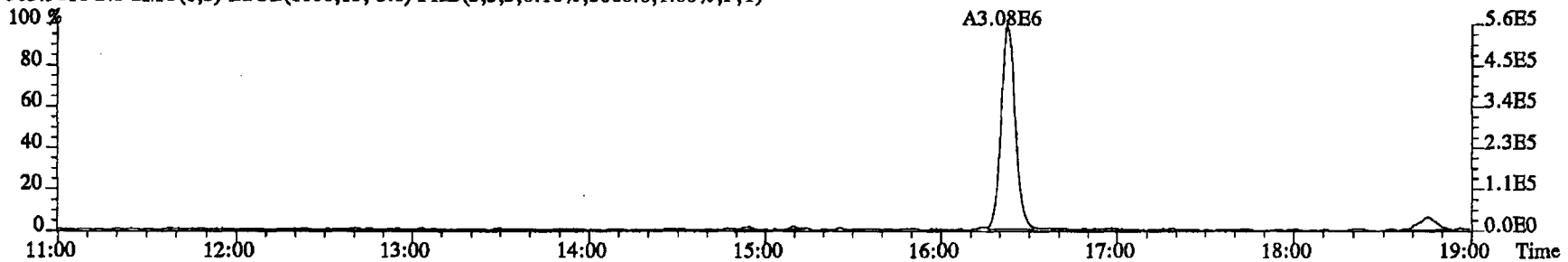
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1976.0,1.00%,F,T)



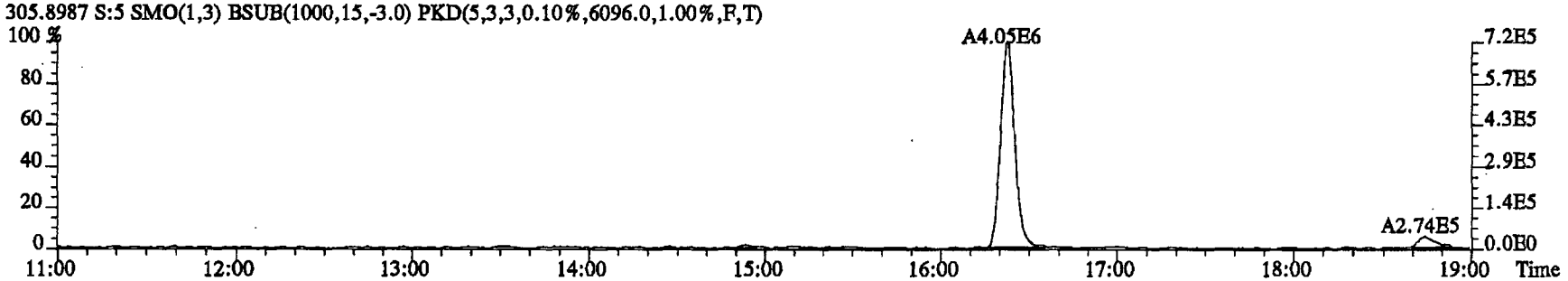
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



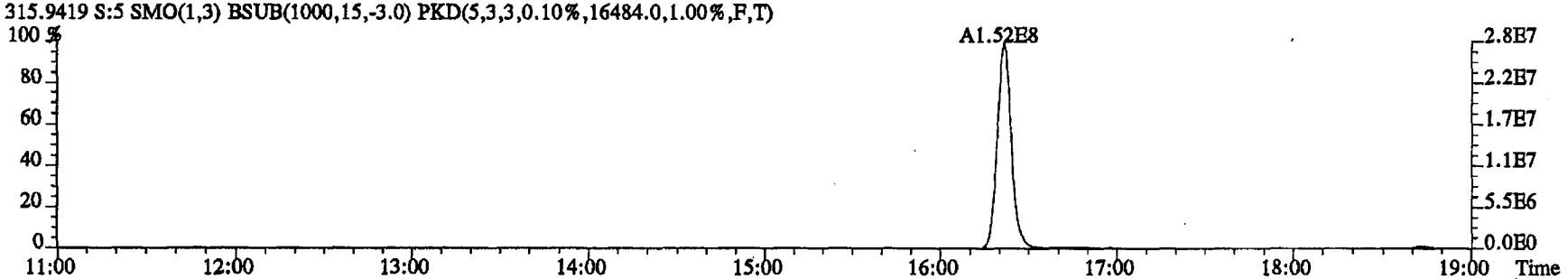
File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5060.0,1.00%,F,T)



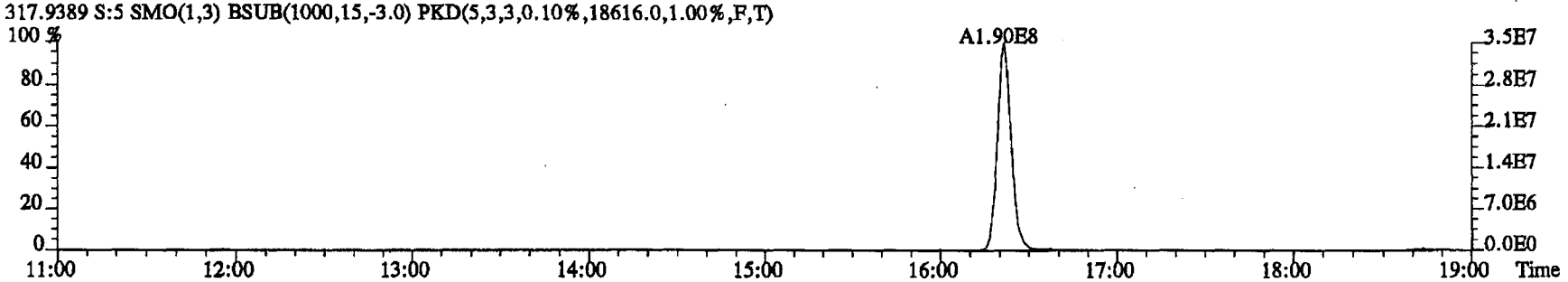
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6096.0,1.00%,F,T)



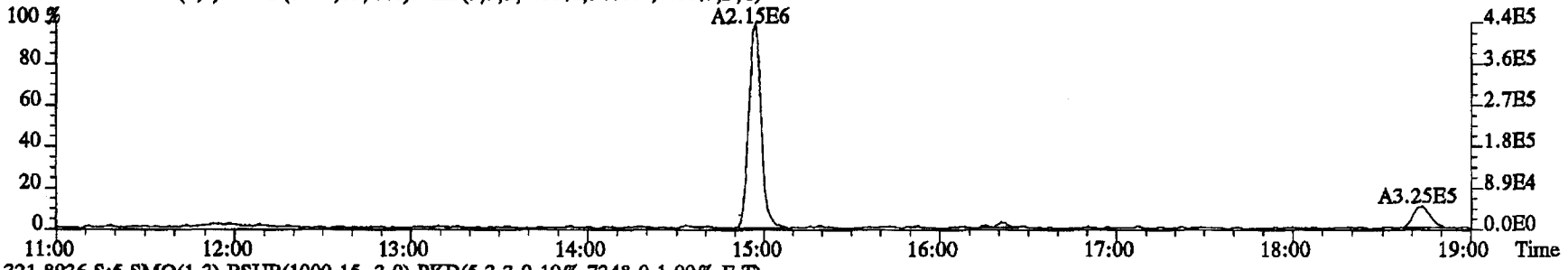
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16484.0,1.00%,F,T)



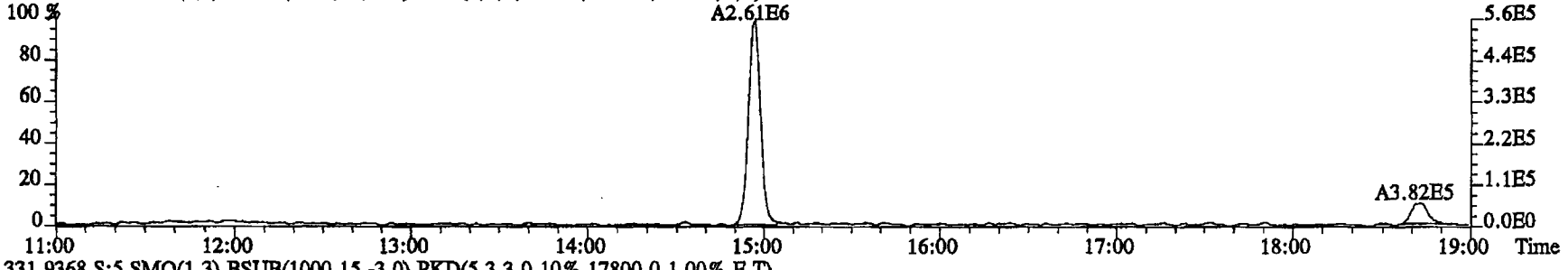
317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18616.0,1.00%,F,T)



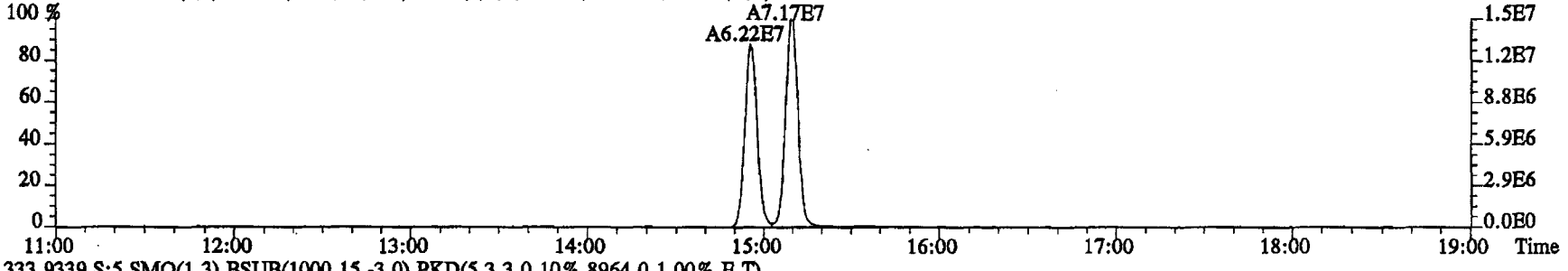
File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES
319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5400.0,1.00%,F,T)



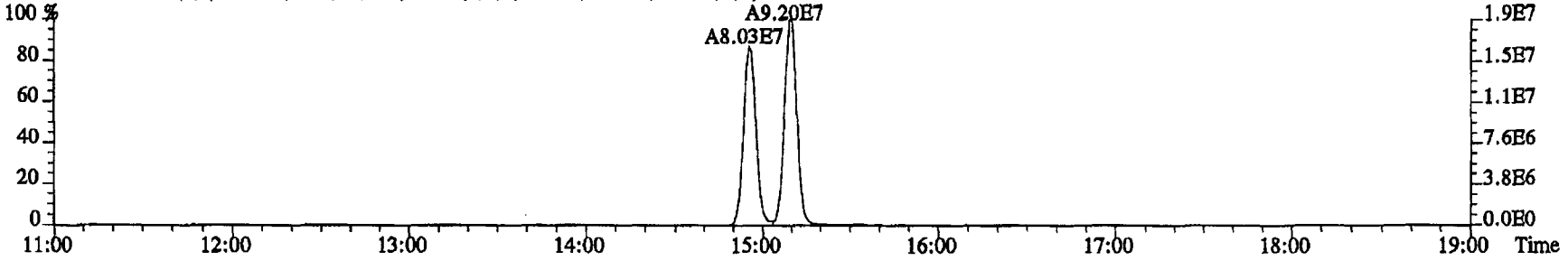
321.8936 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7348.0,1.00%,F,T)



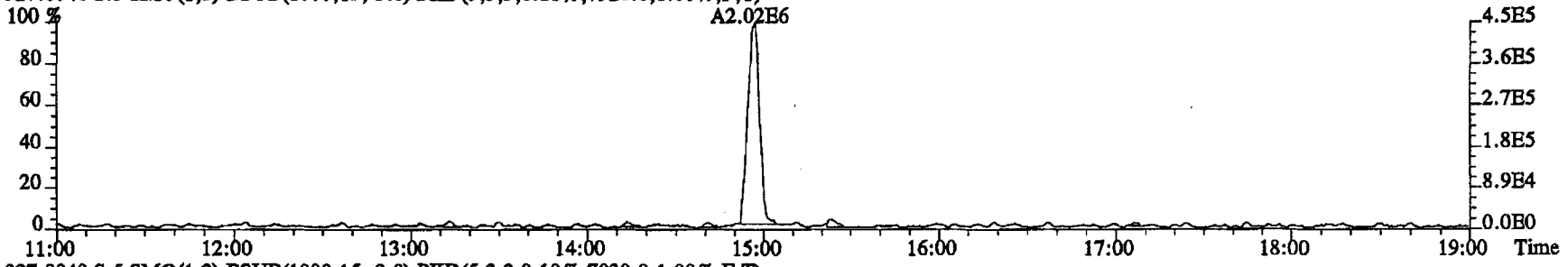
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17800.0,1.00%,F,T)



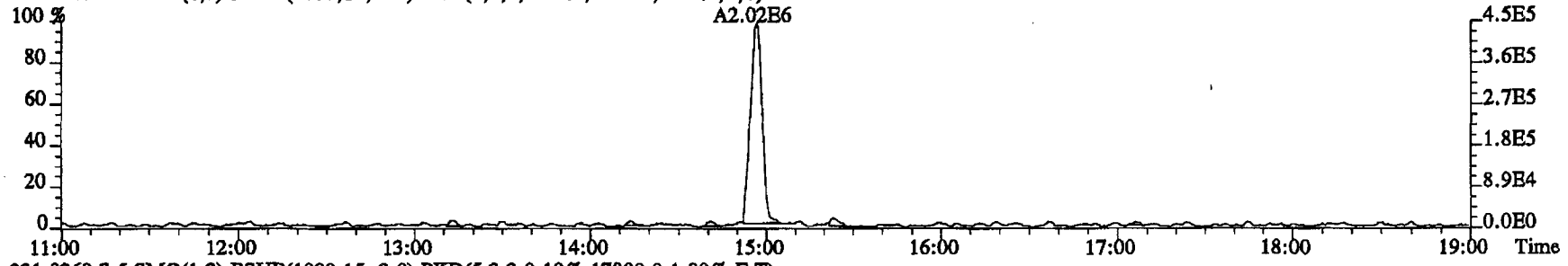
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8964.0,1.00%,F,T)



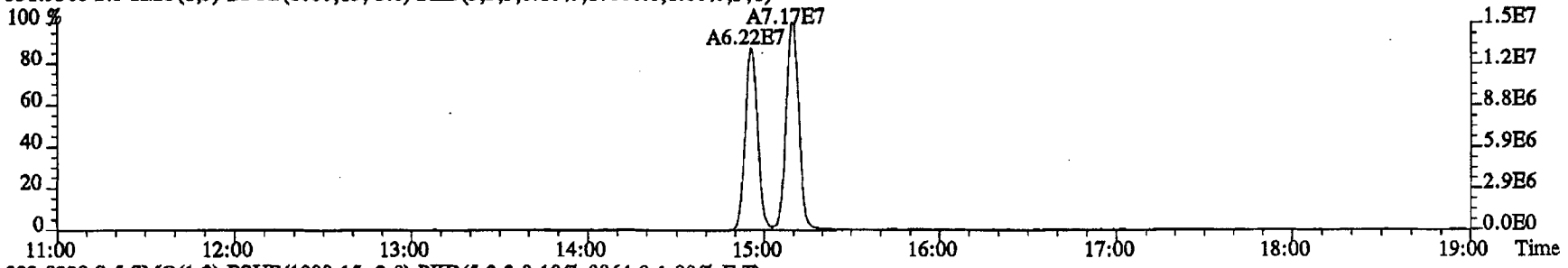
File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920.0,1.00%,F,T)



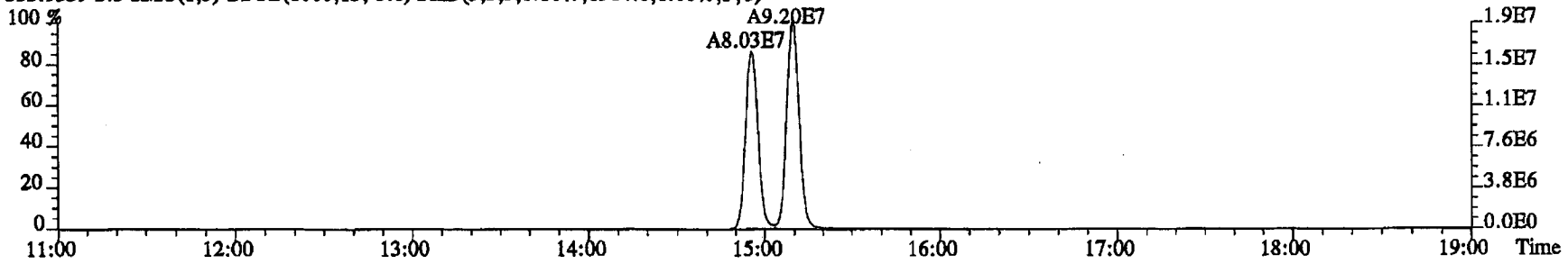
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920.0,1.00%,F,T)

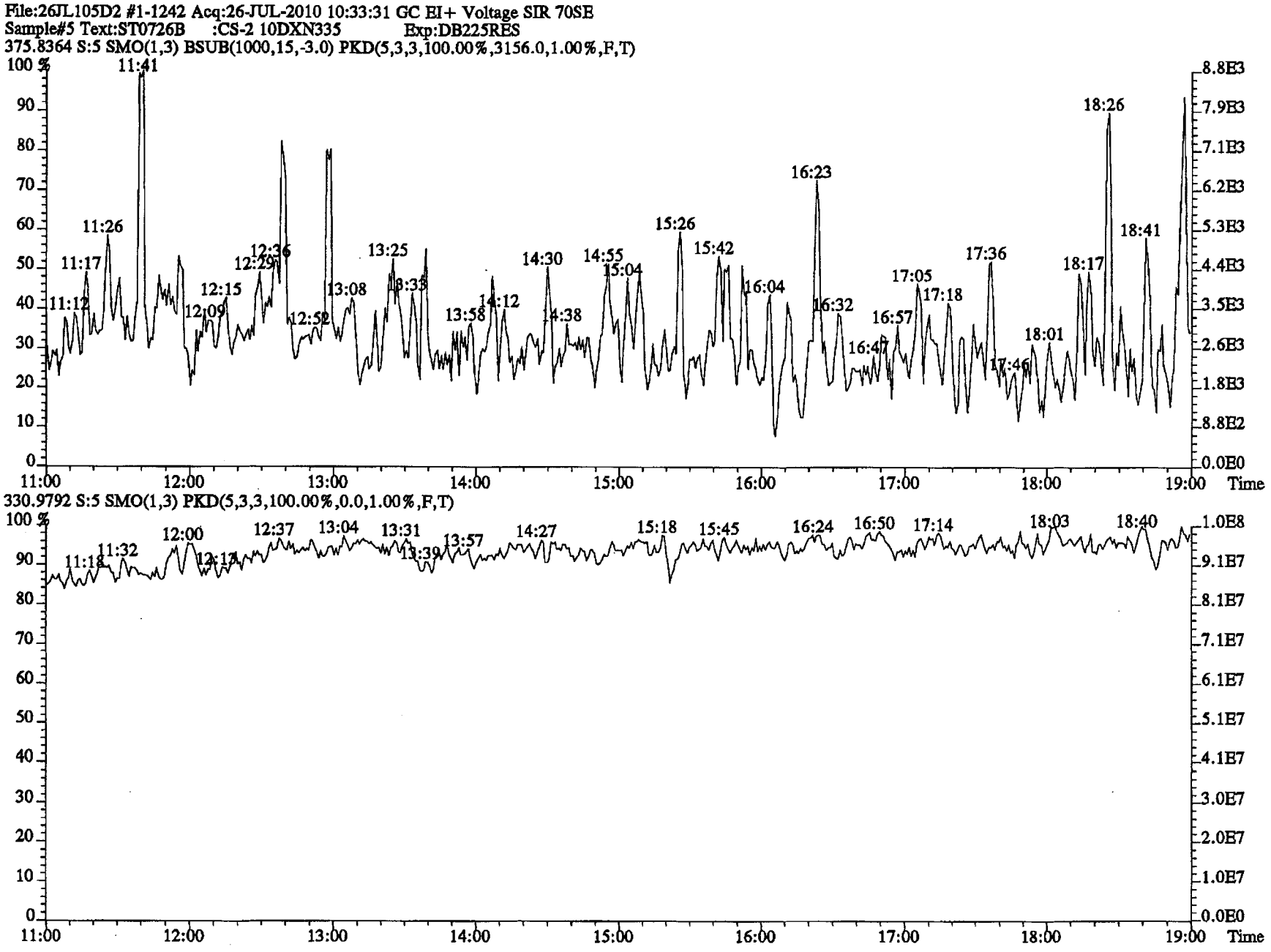


331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17800.0,1.00%,F,T)



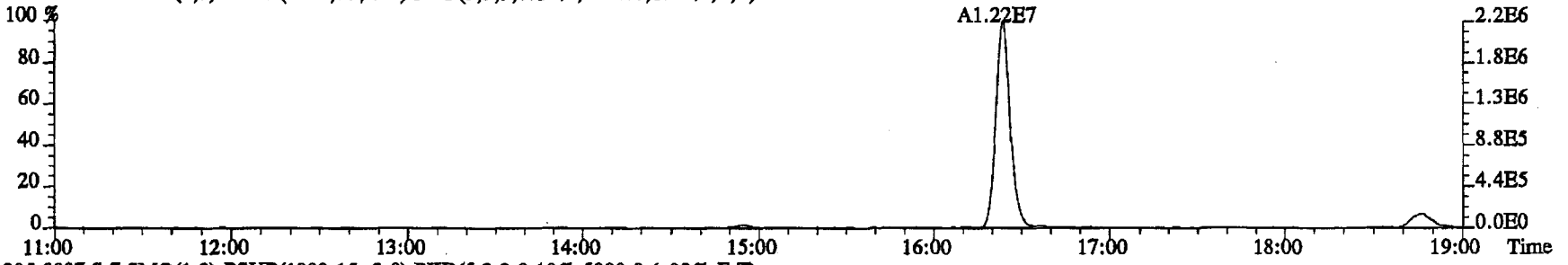
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8964.0,1.00%,F,T)



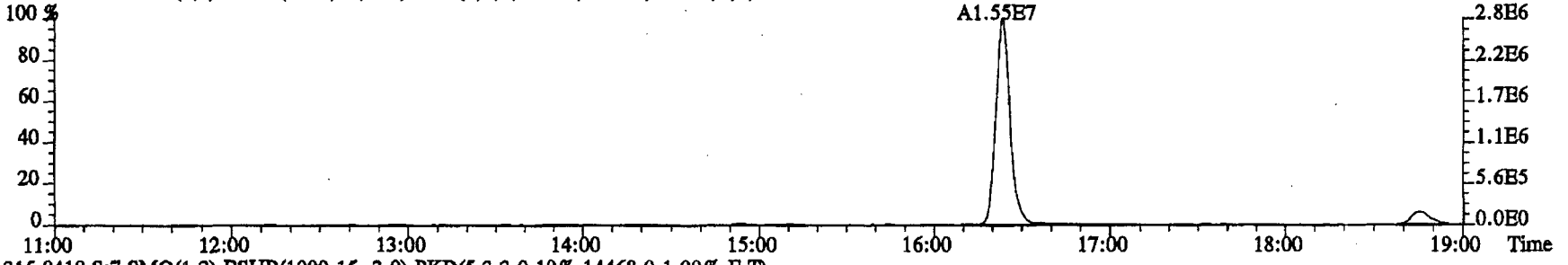


File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES

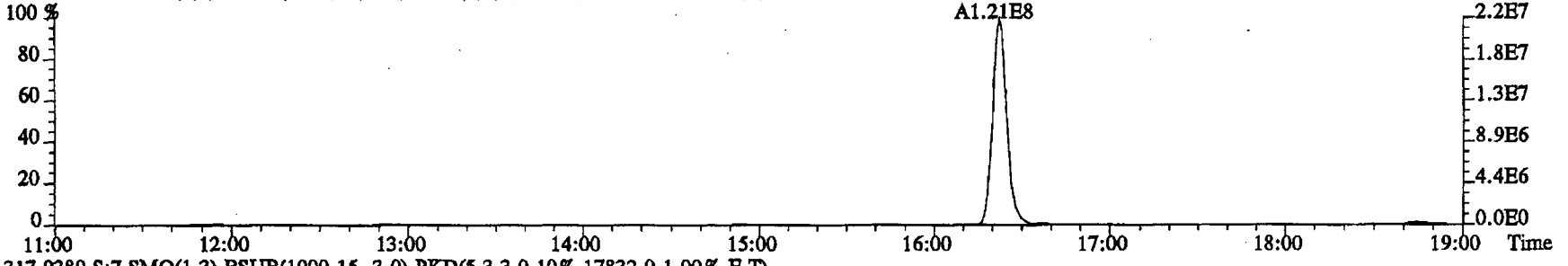
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)



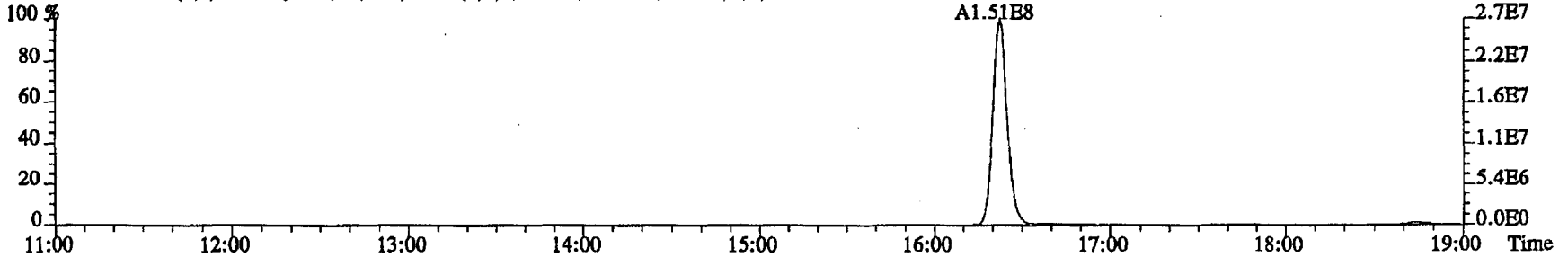
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5000.0,1.00%,F,T)



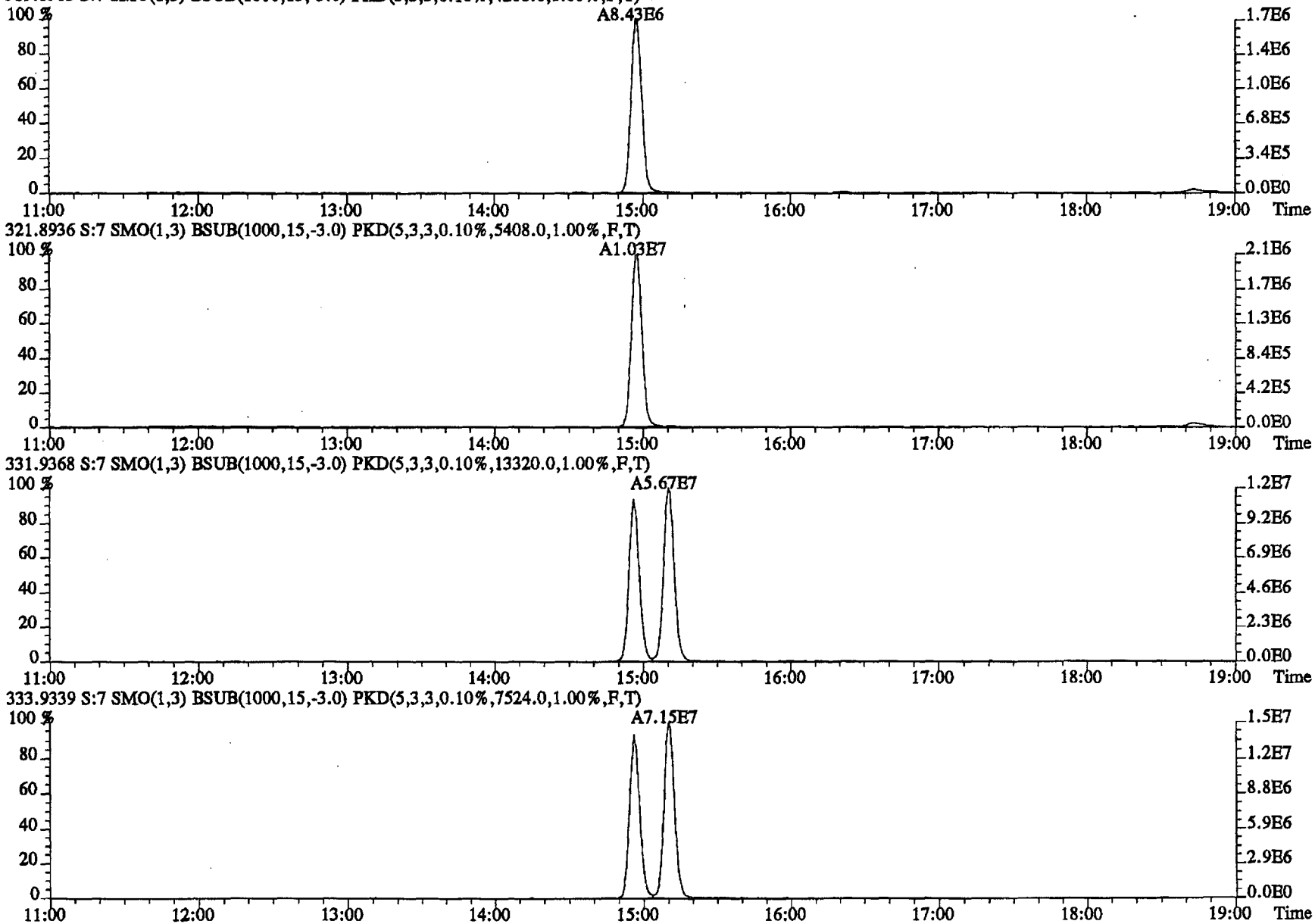
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14468.0,1.00%,F,T)



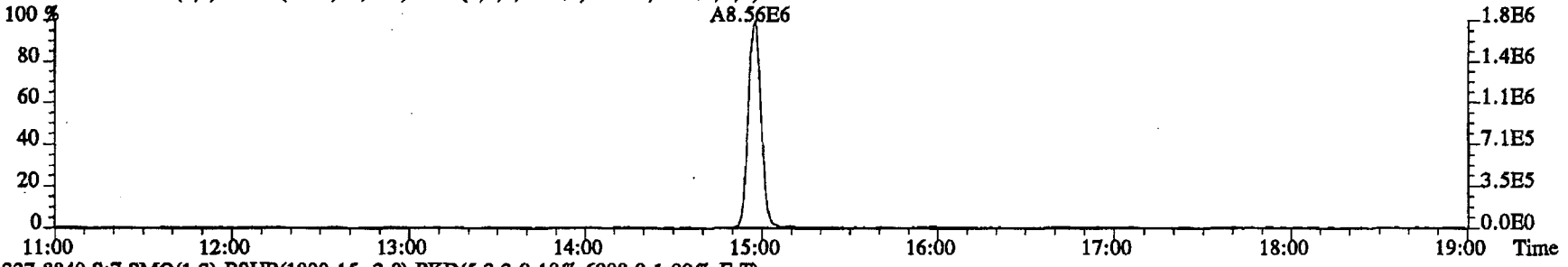
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17832.0,1.00%,F,T)



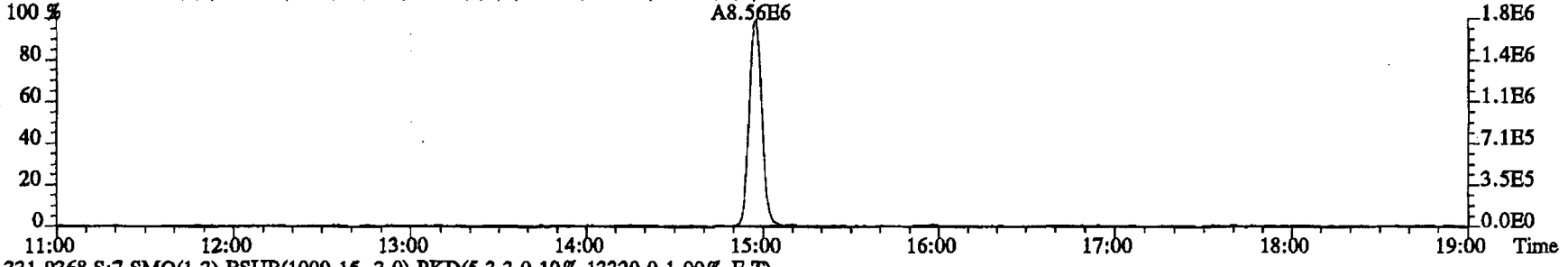
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES



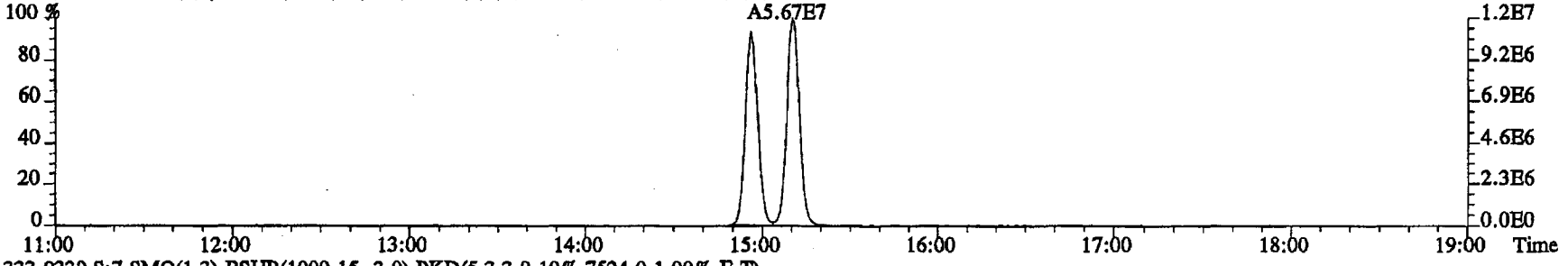
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)



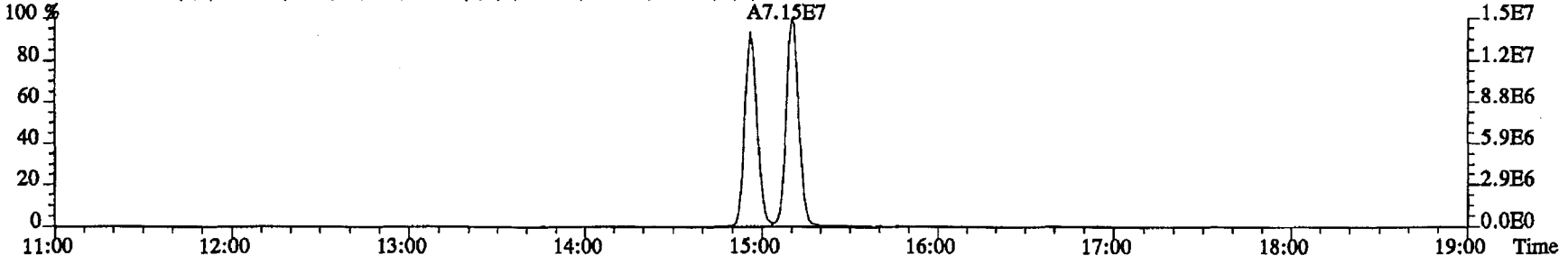
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)



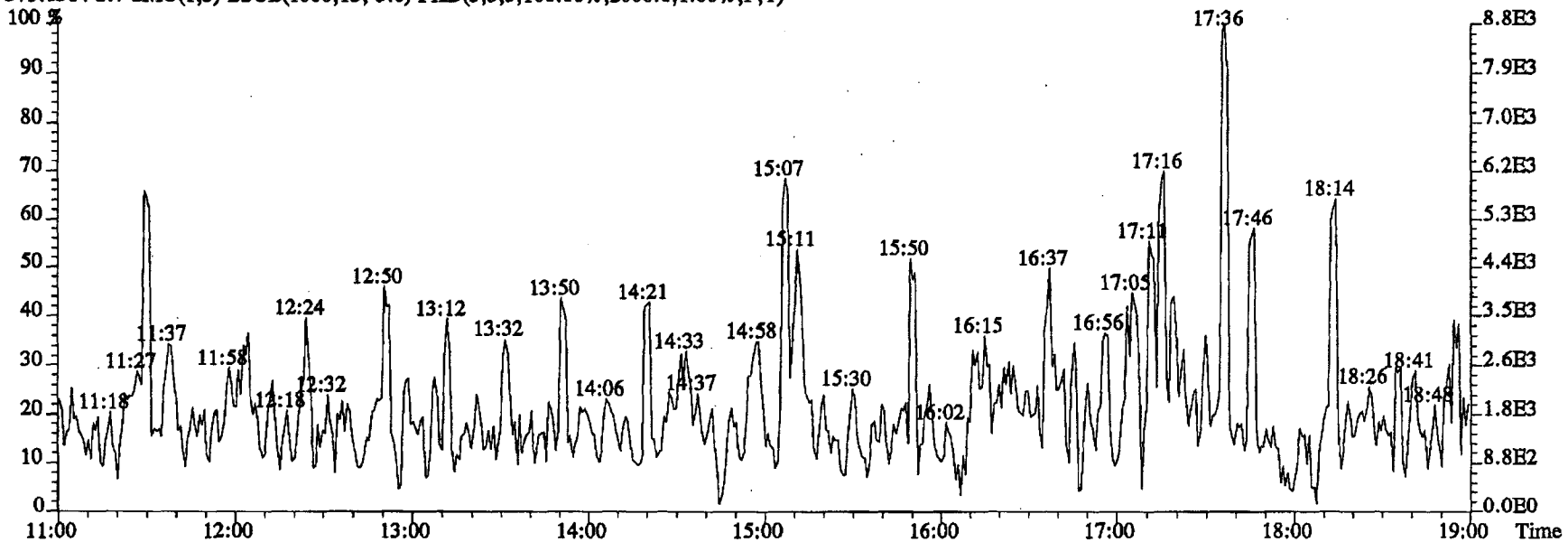
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13320.0,1.00%,F,T)



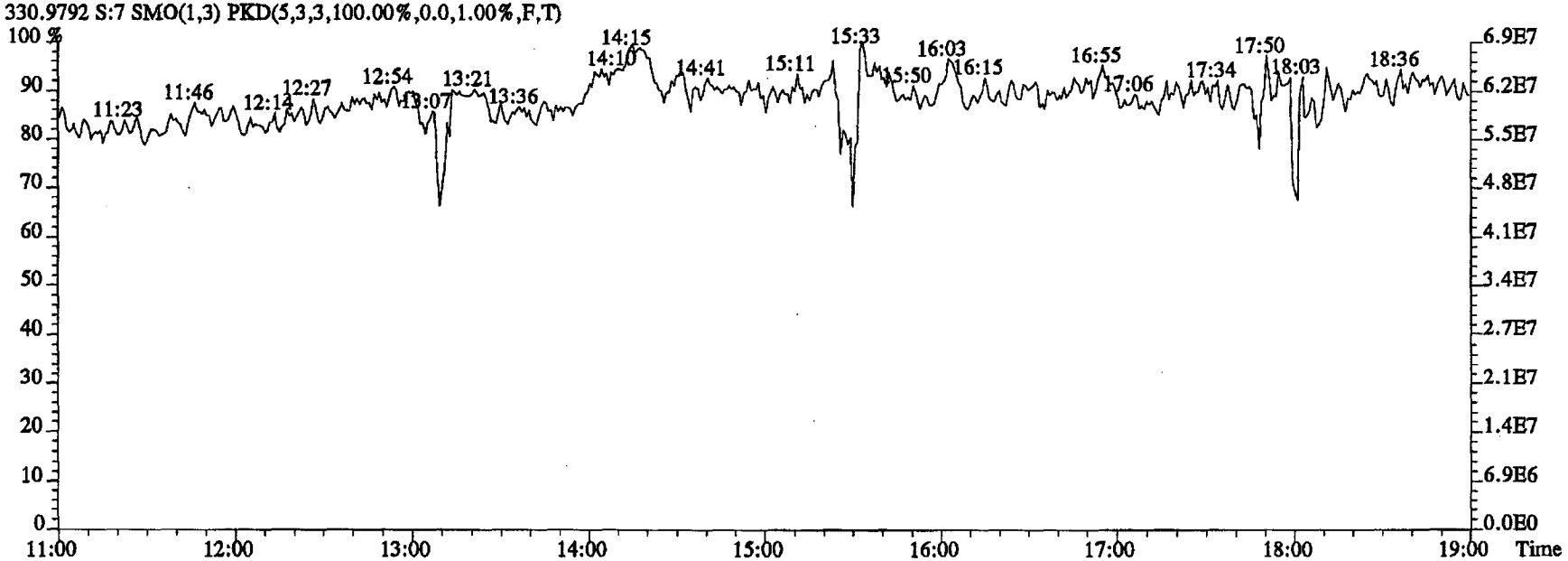
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7524.0,1.00%,F,T)



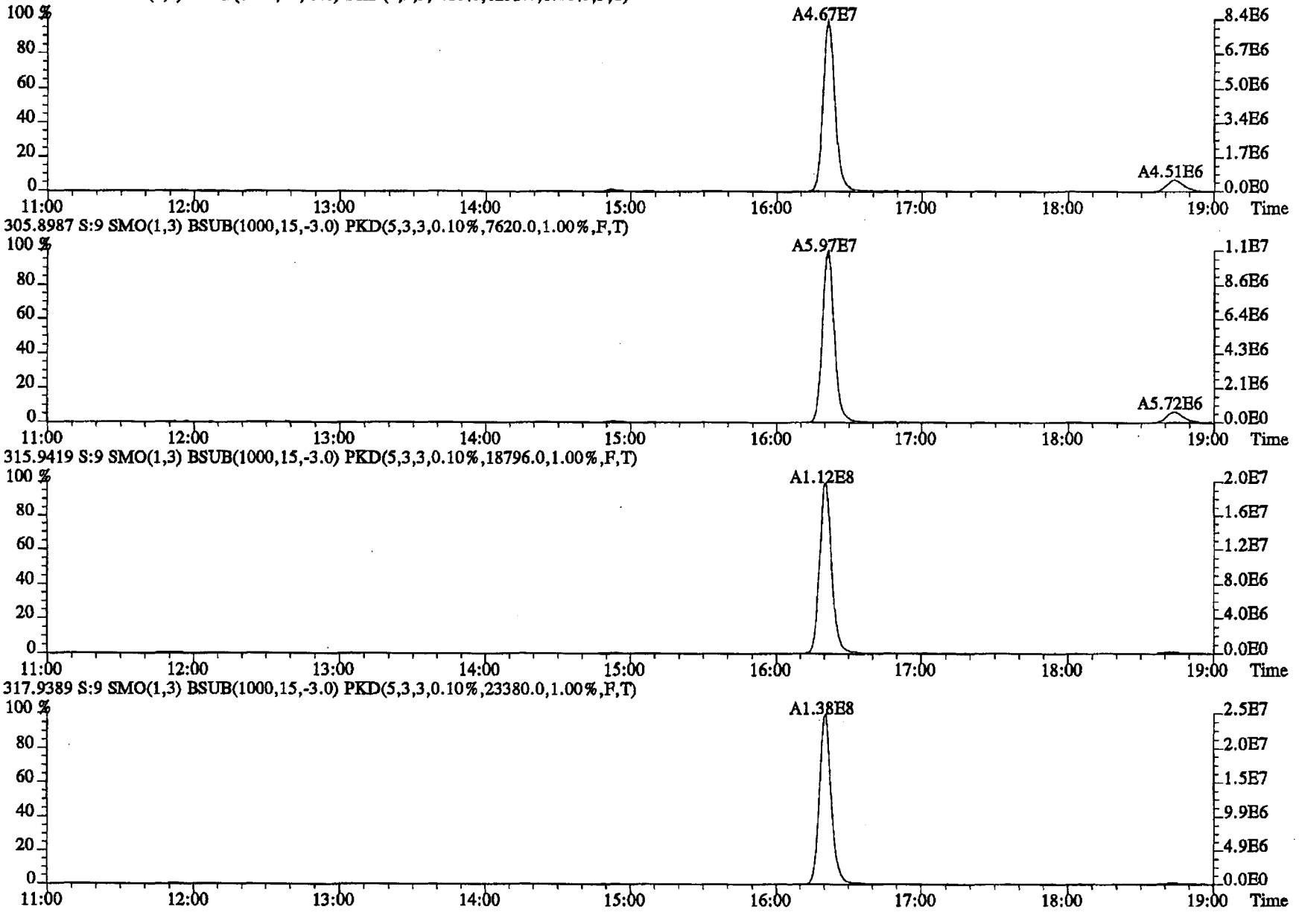
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2000.0,1.00%,F,T)



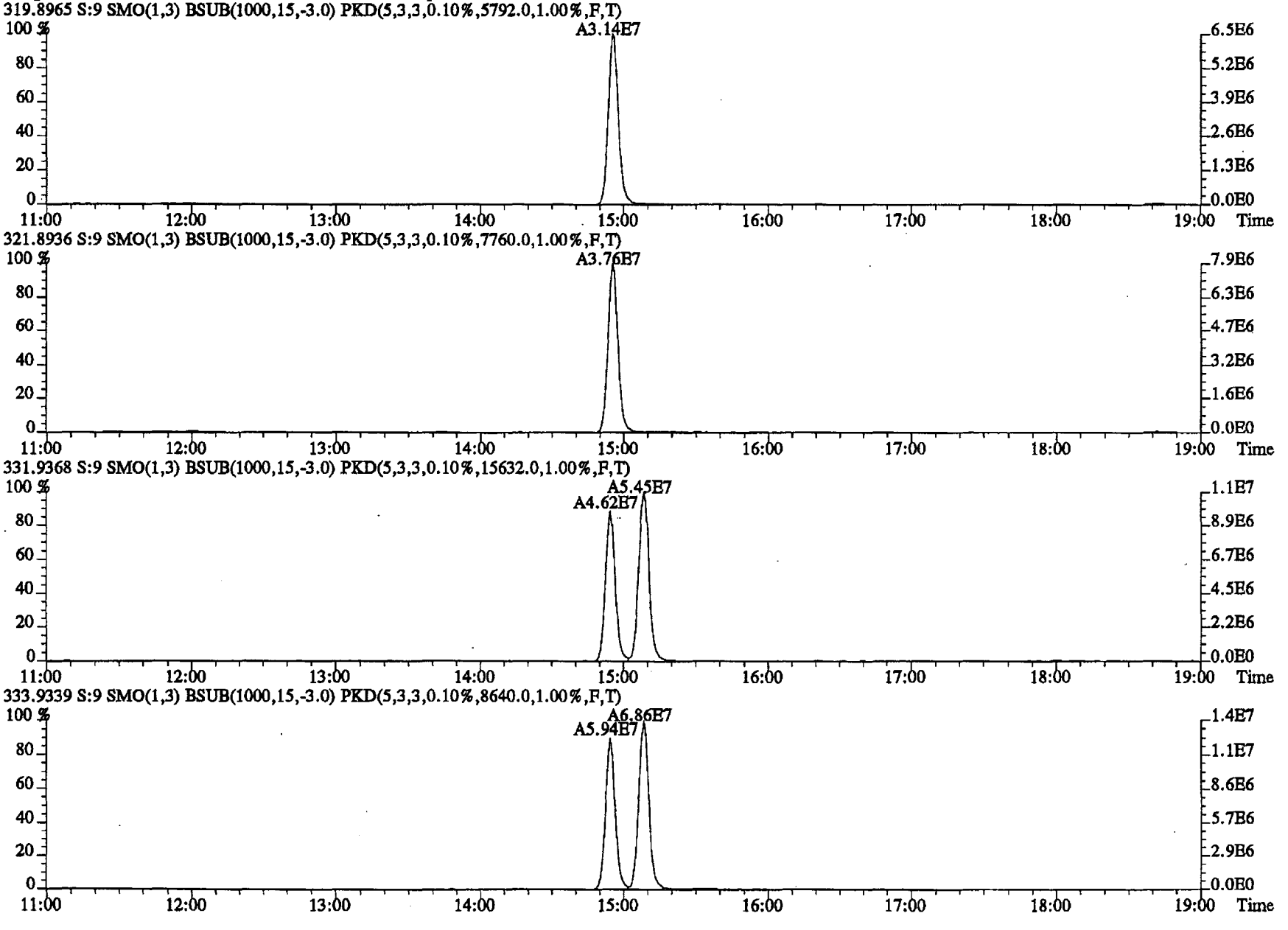
330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



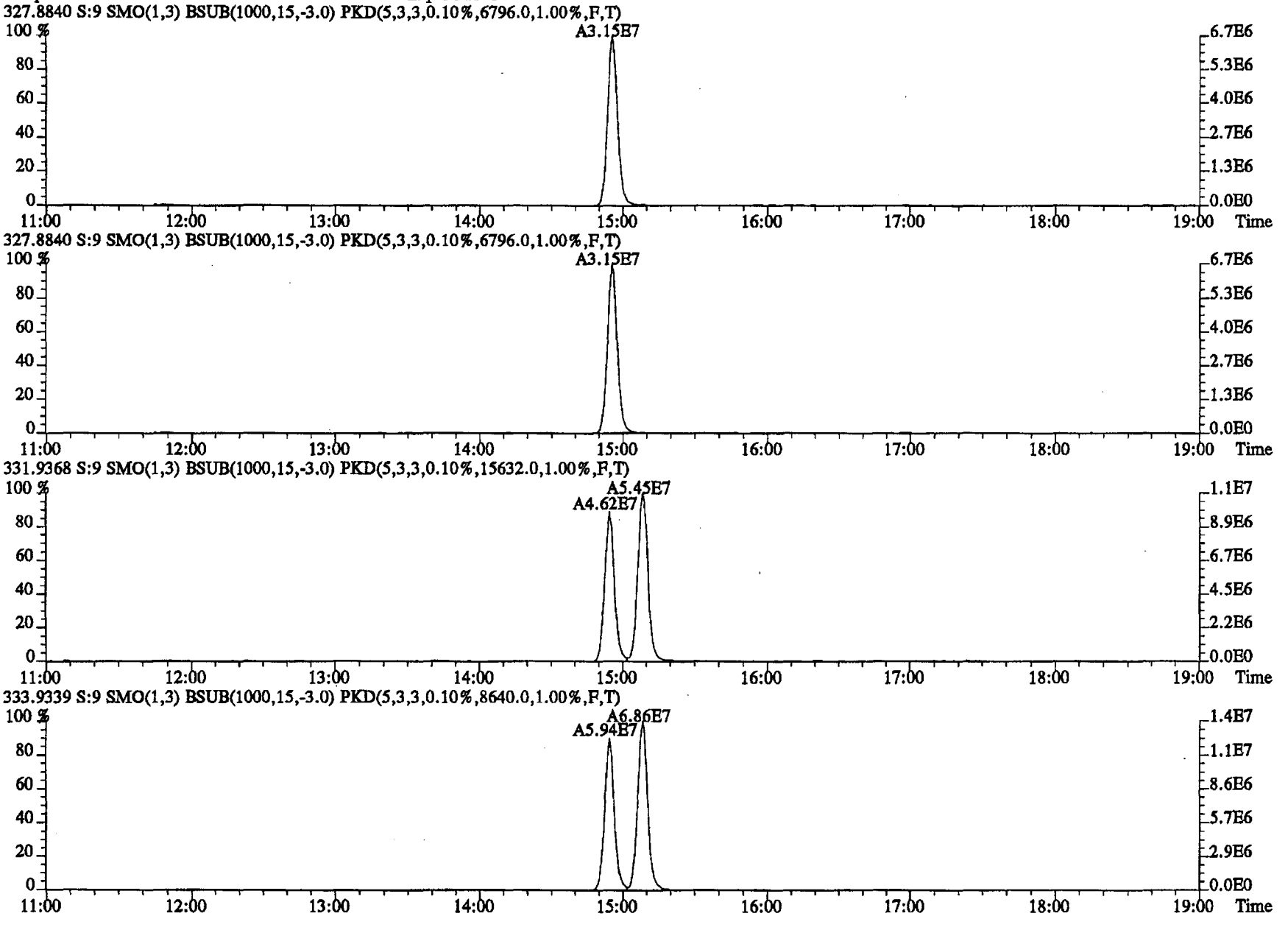
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES

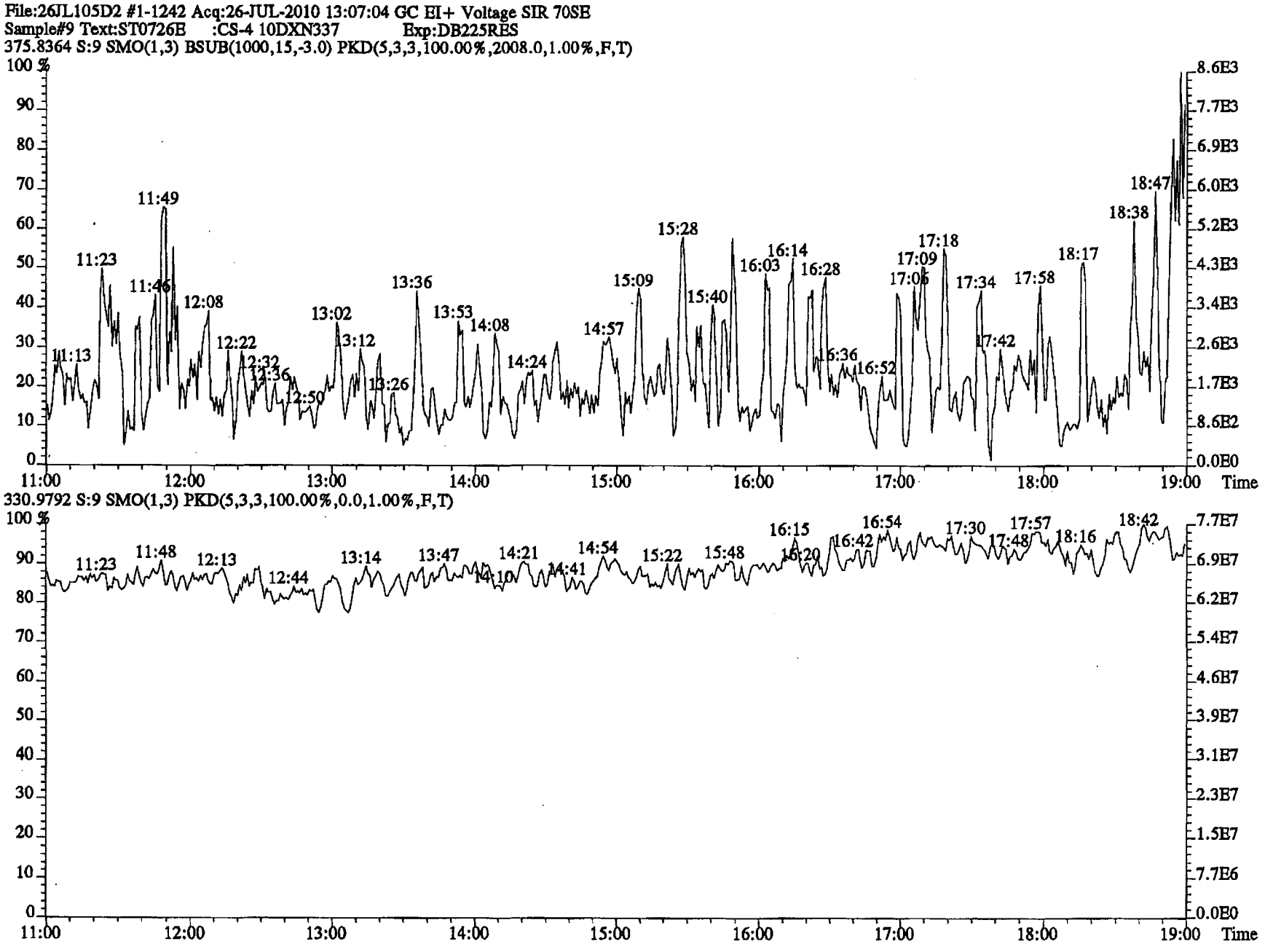


File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES

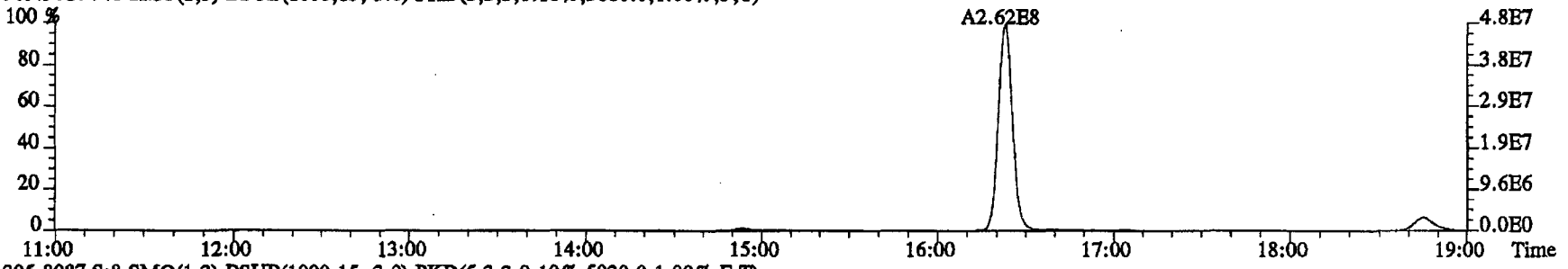


File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES

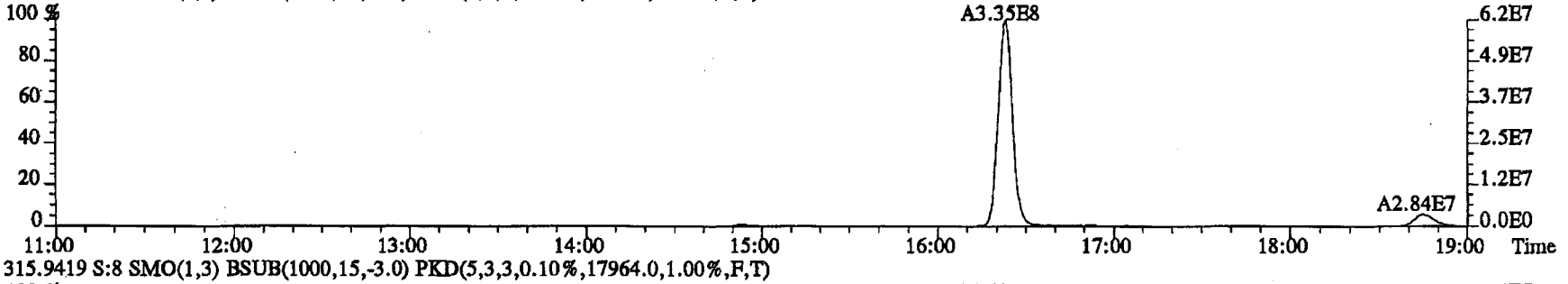



File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES
375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2008.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
8.6E3
7.7E3
6.9E3
6.0E3
5.2E3
4.3E3
3.4E3
2.6E3
1.7E3
8.6E2
0.0E0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
11:13
11:23
11:46
11:49
12:08
12:22
12:32
12:36
12:50
13:02
13:12
13:26
13:36
13:53
14:08
14:24
14:57
15:09
15:28
15:40
16:03
16:14
16:28
16:36
16:52
17:06
17:09
17:18
17:34
17:42
17:58
18:17
18:38
18:47
330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
7.7E7
6.9E7
6.2E7
5.4E7
4.6E7
3.9E7
3.1E7
2.3E7
1.5E7
7.7E6
0.0E0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
11:23
11:48
12:13
12:44
13:14
13:47
14:10
14:21
14:41
14:54
15:22
15:48
16:15
16:20
16:42
16:54
17:30
17:48
17:57
18:16
18:42

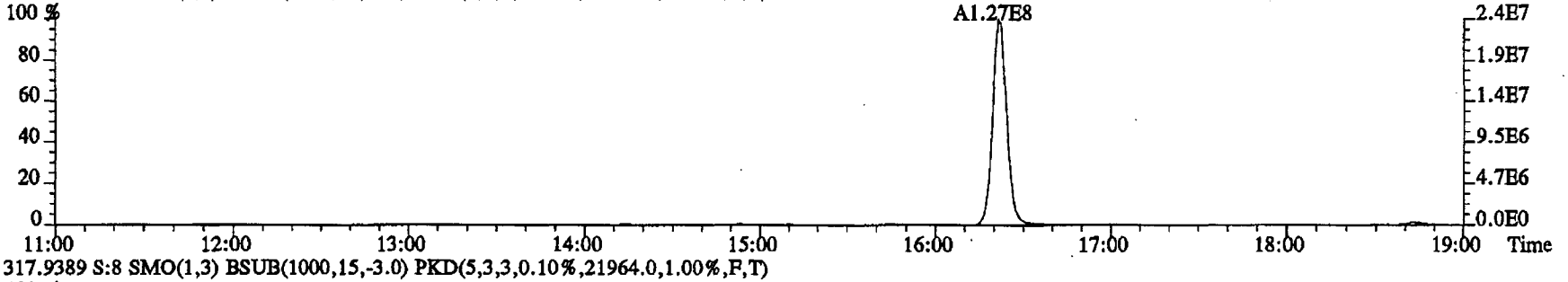
File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880.0,1.00%,F,T)



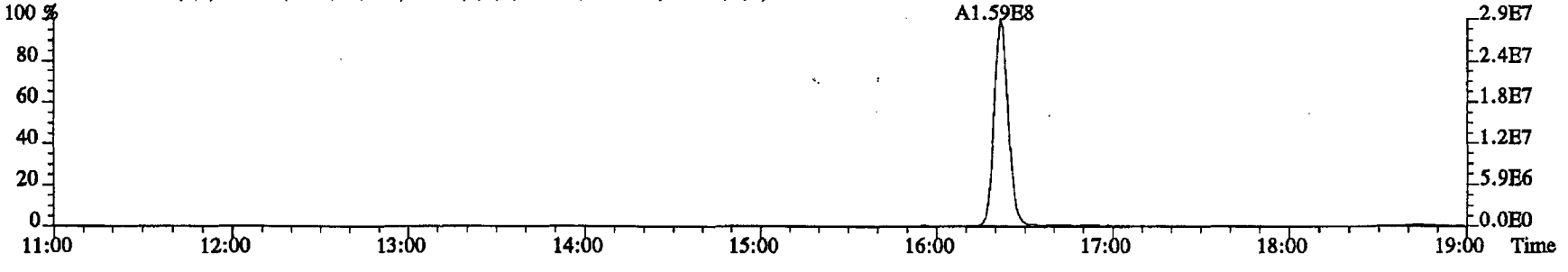
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



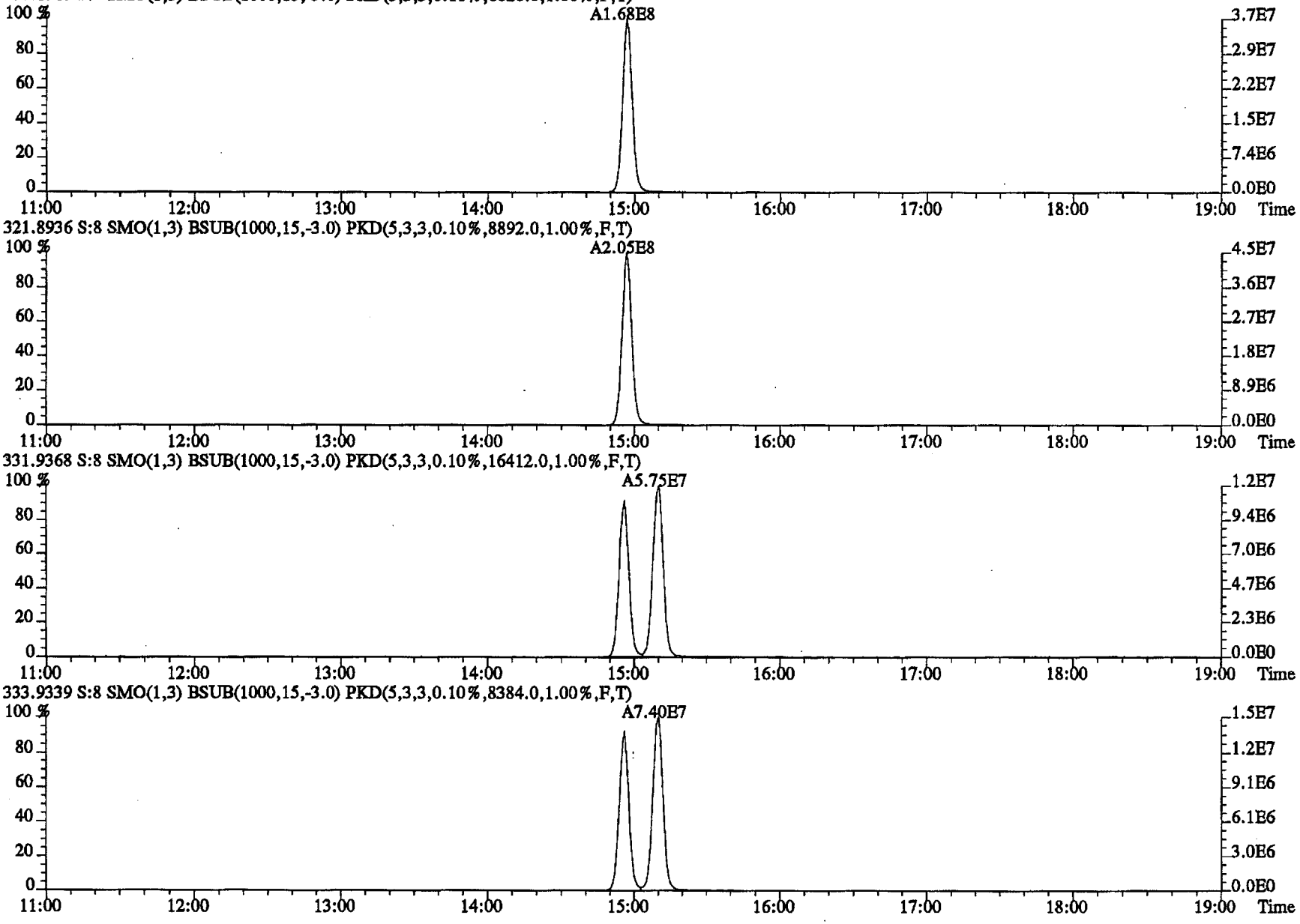
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17964.0,1.00%,F,T)



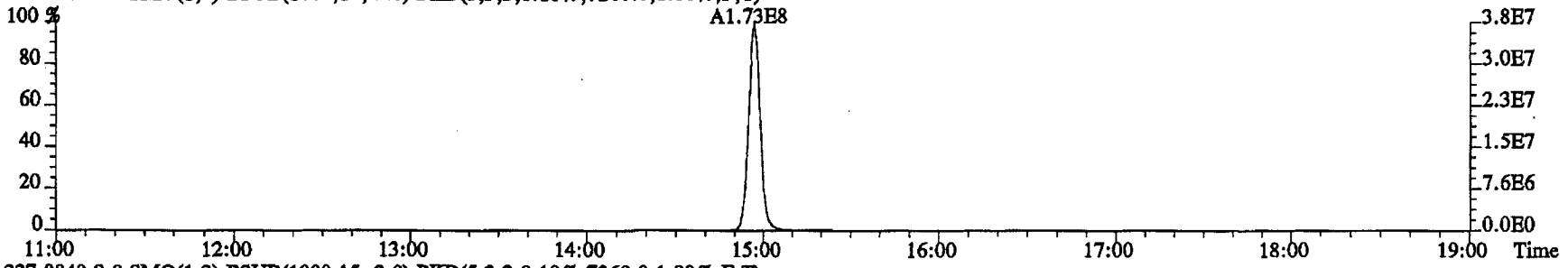
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21964.0,1.00%,F,T)



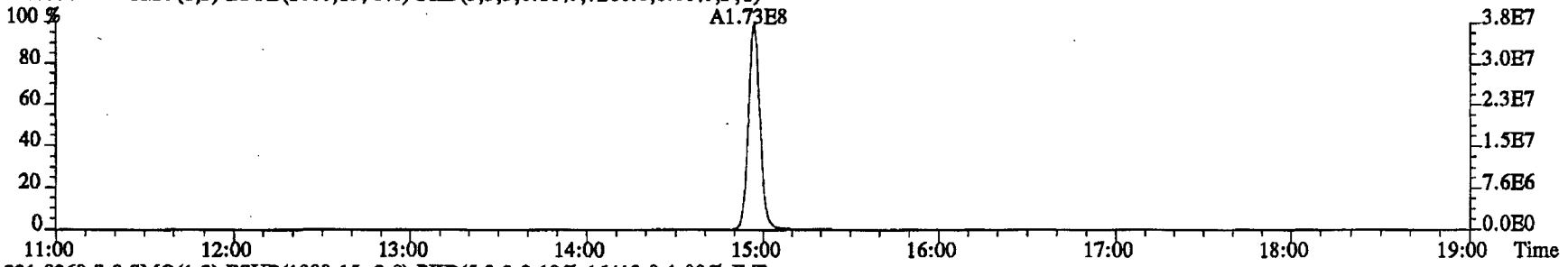
File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES



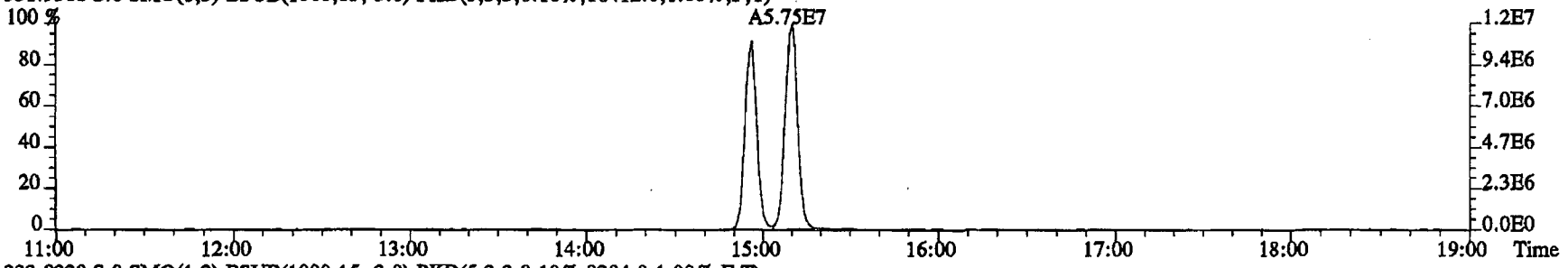
File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260.0,1.00%,F,T)



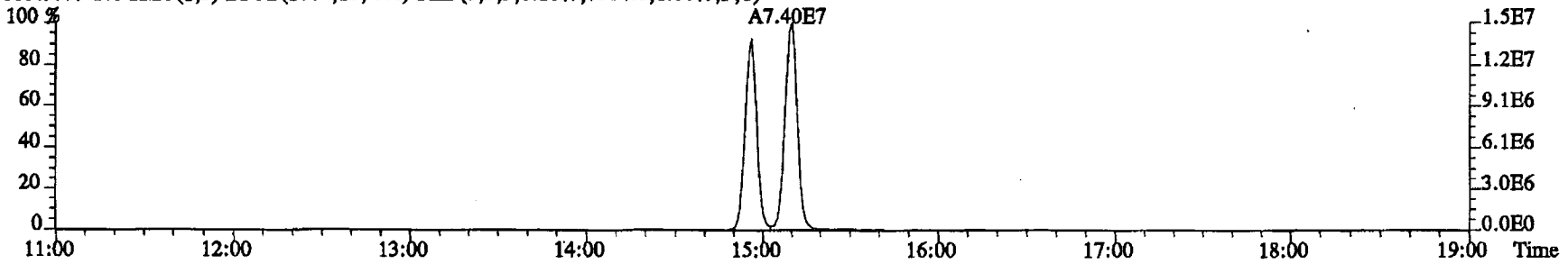
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260.0,1.00%,F,T)

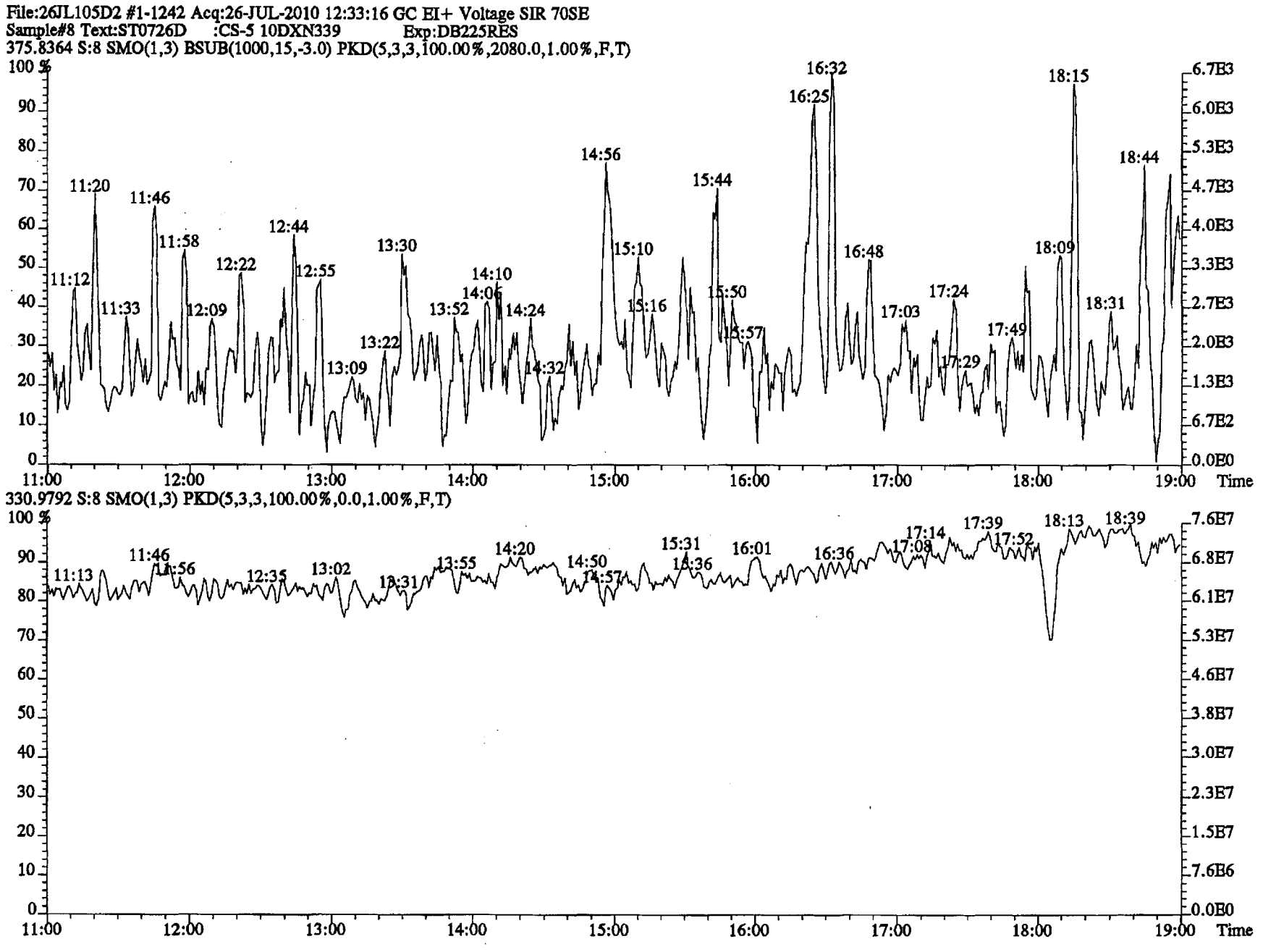


331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16412.0,1.00%,F,T)

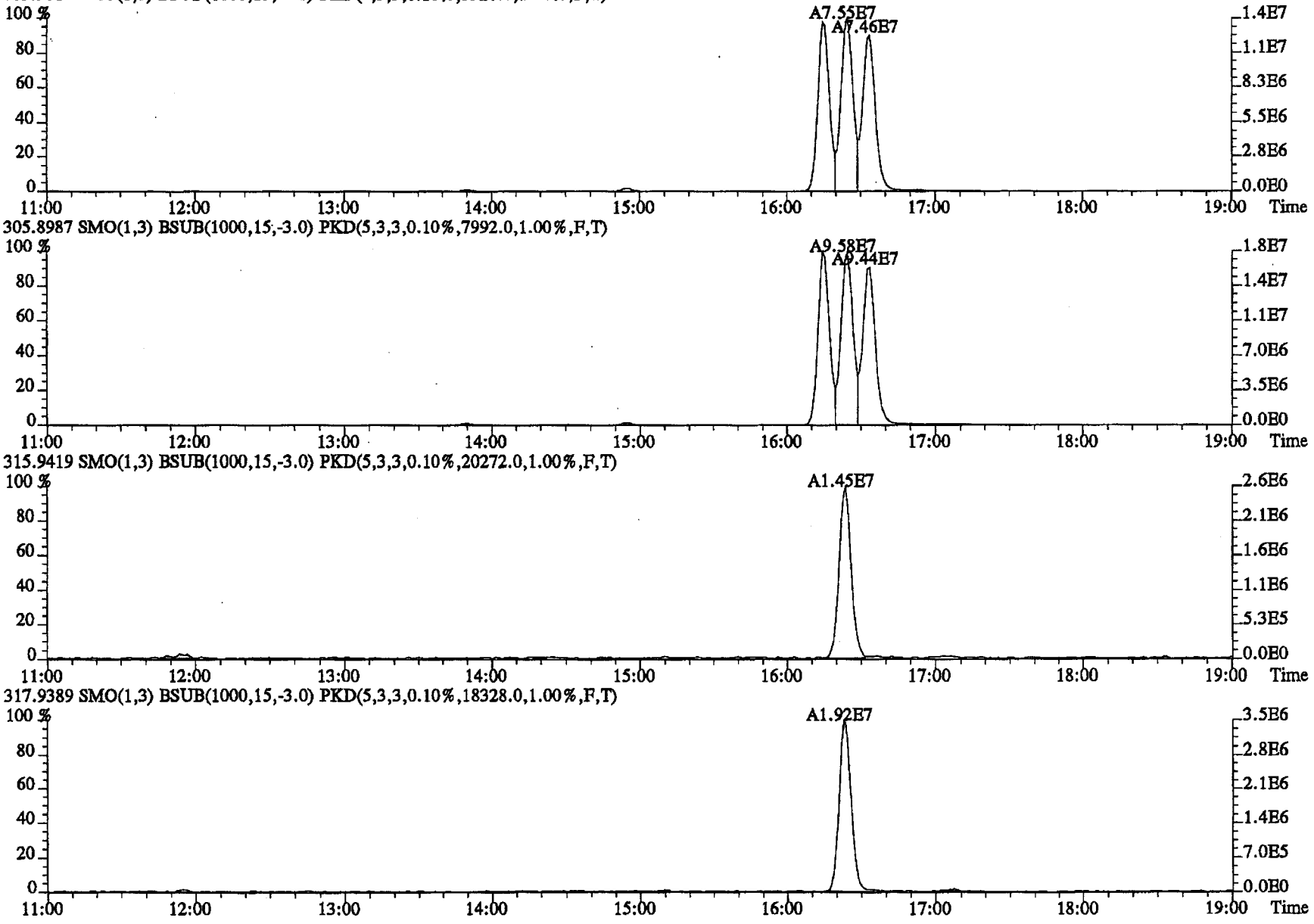


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8384.0,1.00%,F,T)

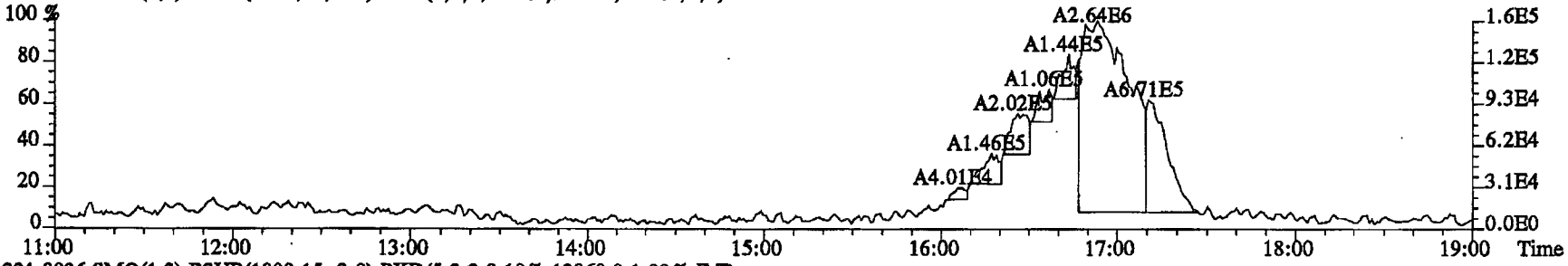



File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
6.7E3
6.0E3
5.3E3
4.7E3
4.0E3
3.3E3
2.7E3
2.0E3
1.3E3
6.7E2
0.0E0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
11:12
11:20
11:33
11:46
11:58
12:09
12:22
12:44
12:55
13:09
13:22
13:30
13:52
14:06
14:10
14:24
14:32
14:56
15:10
15:16
15:44
15:50
15:57
16:25
16:32
16:48
17:03
17:24
17:29
17:49
18:09
18:15
18:31
18:44
330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
7.6E7
6.8E7
6.1E7
5.3E7
4.6E7
3.8E7
3.0E7
2.3E7
1.5E7
7.6E6
0.0E0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
11:13
11:46
11:56
12:35
13:02
13:31
13:55
14:20
14:50
14:57
15:31
15:36
16:01
16:36
17:08
17:14
17:39
17:52
18:13
18:39

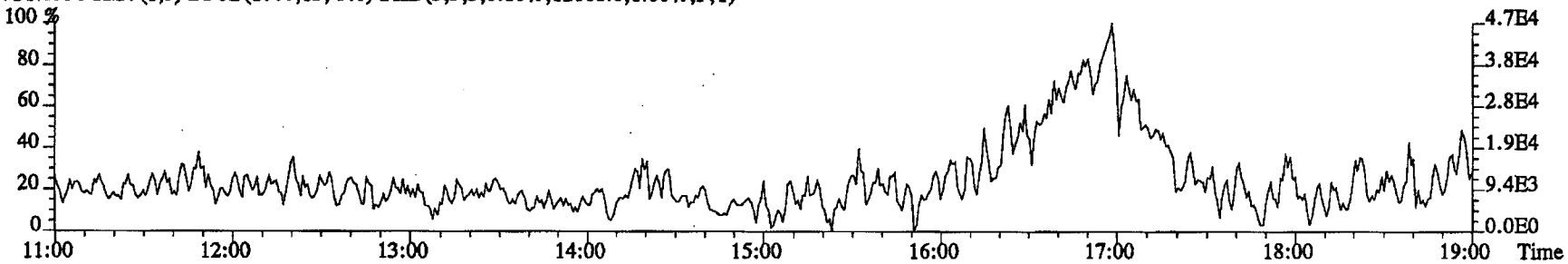
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES



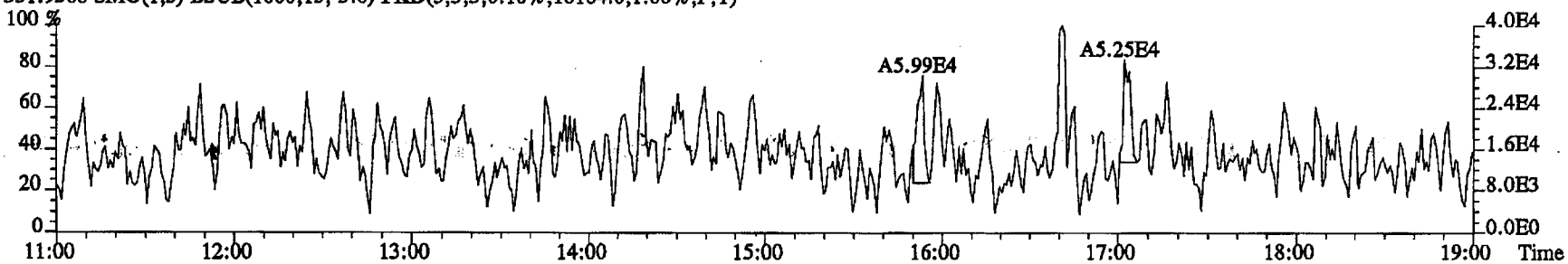
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9128.0,1.00%,F,T)



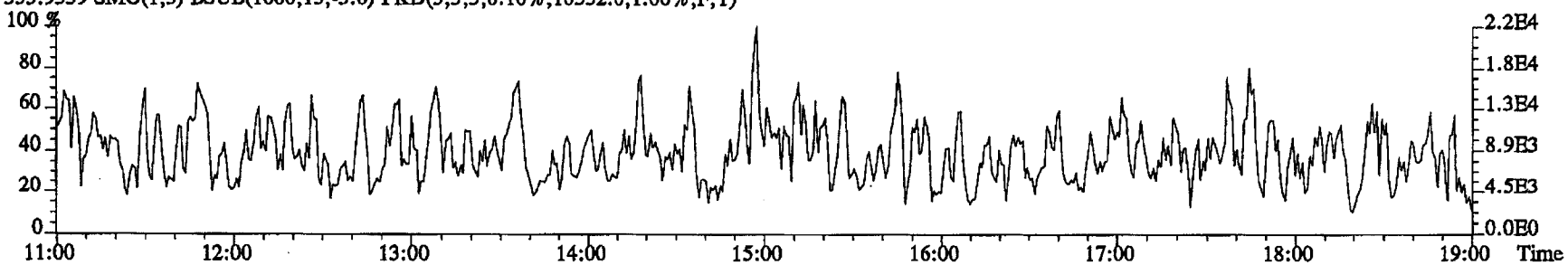
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12868.0,1.00%,F,T)



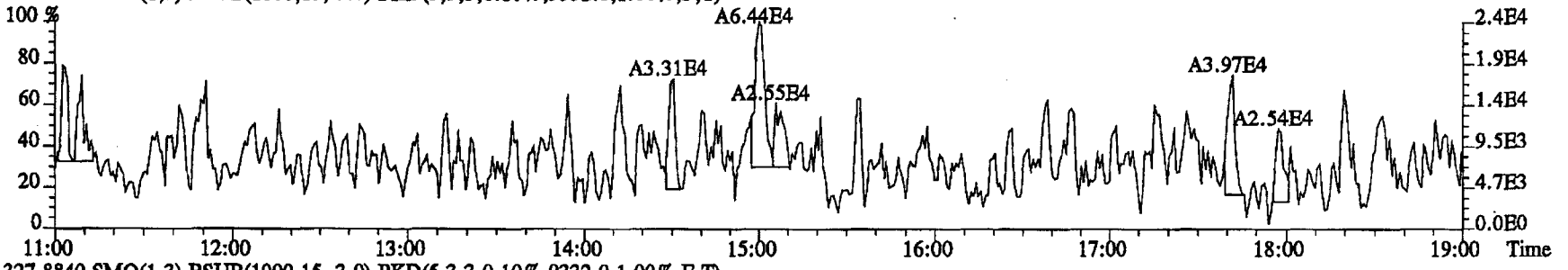
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18184.0,1.00%,F,T)



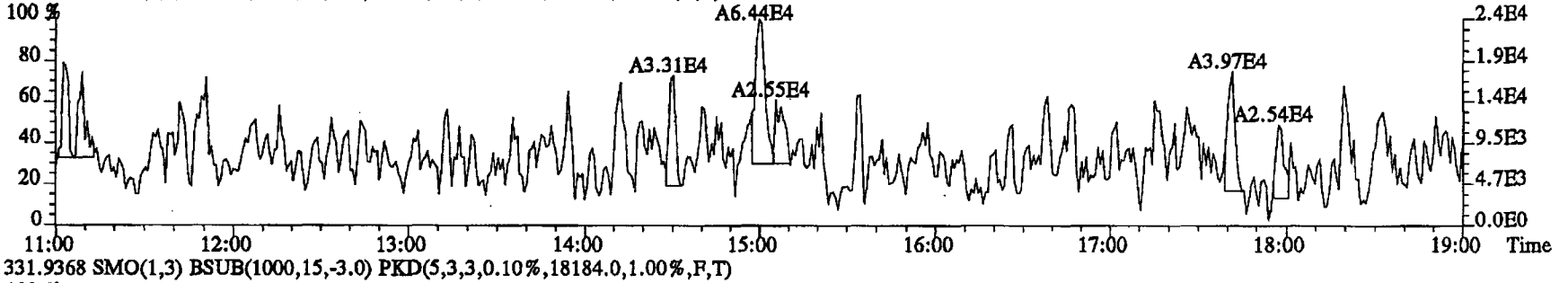
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10552.0,1.00%,F,T)



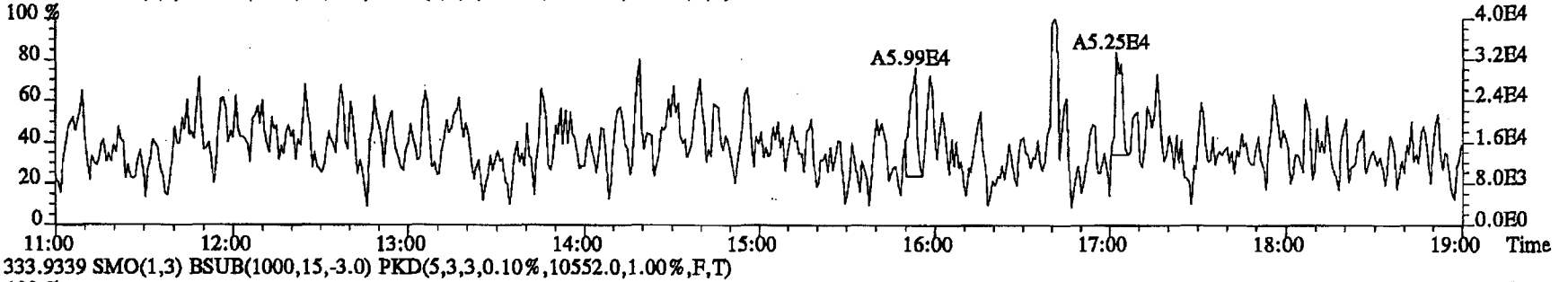
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9332.0,1.00%,F,T)



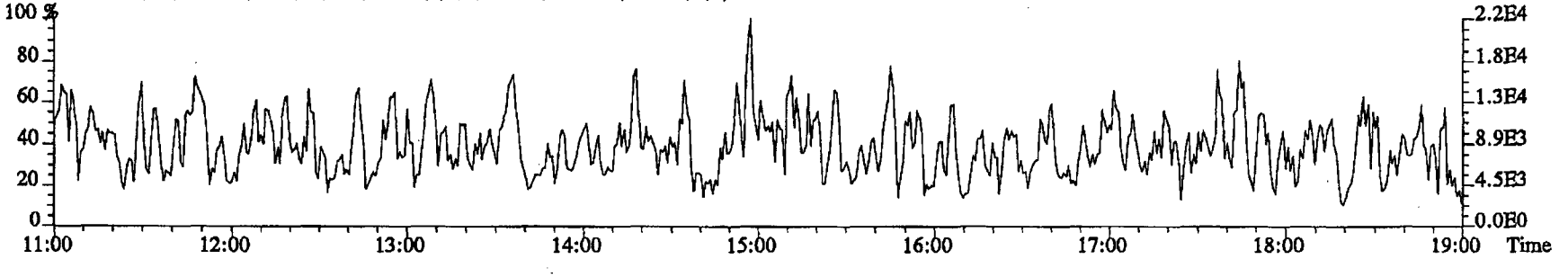
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9332.0,1.00%,F,T)



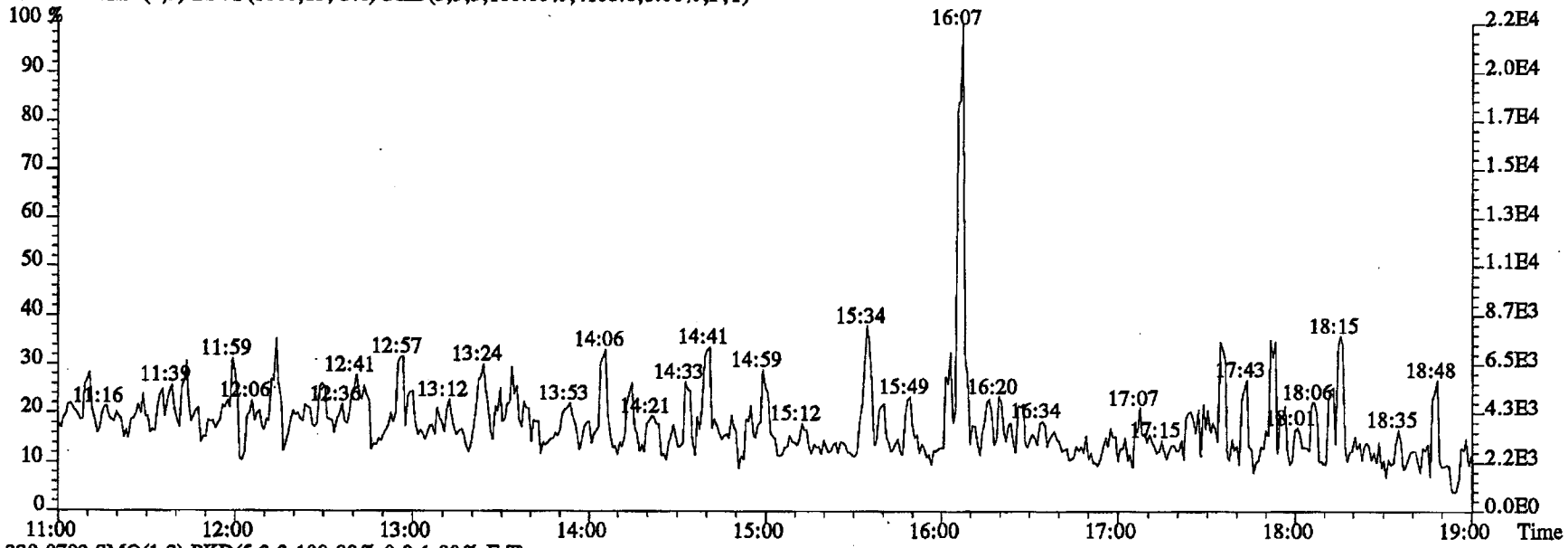
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18184.0,1.00%,F,T)



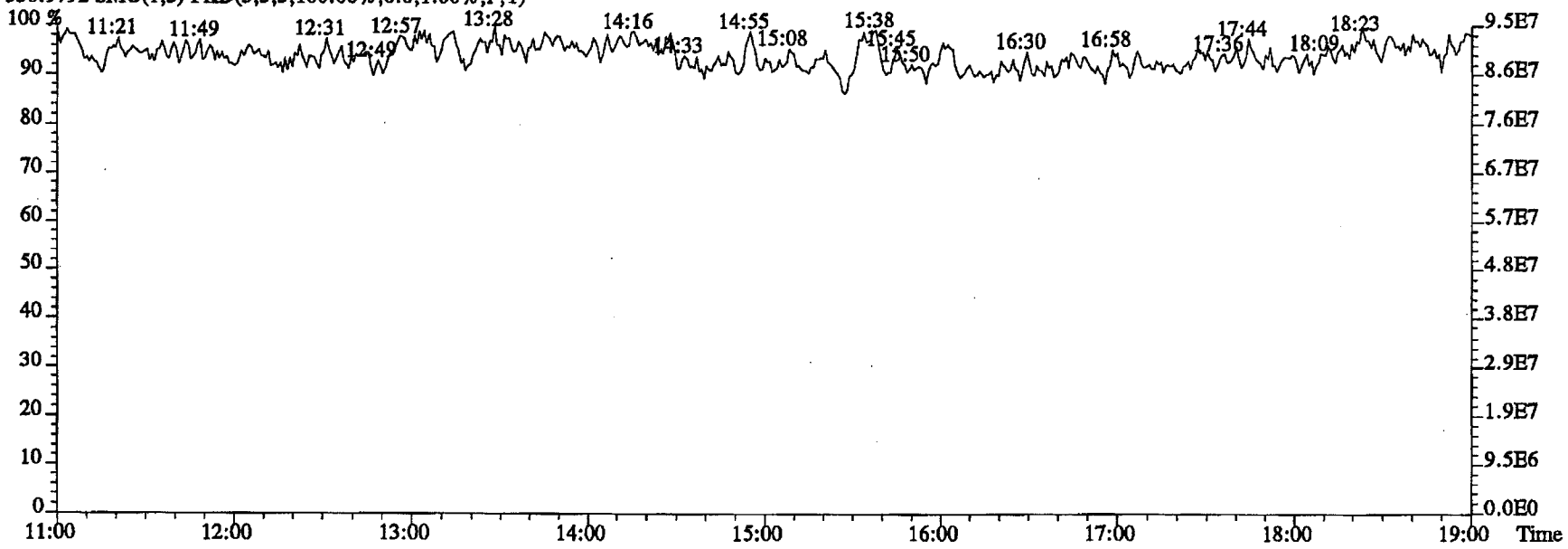
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10552.0,1.00%,F,T)



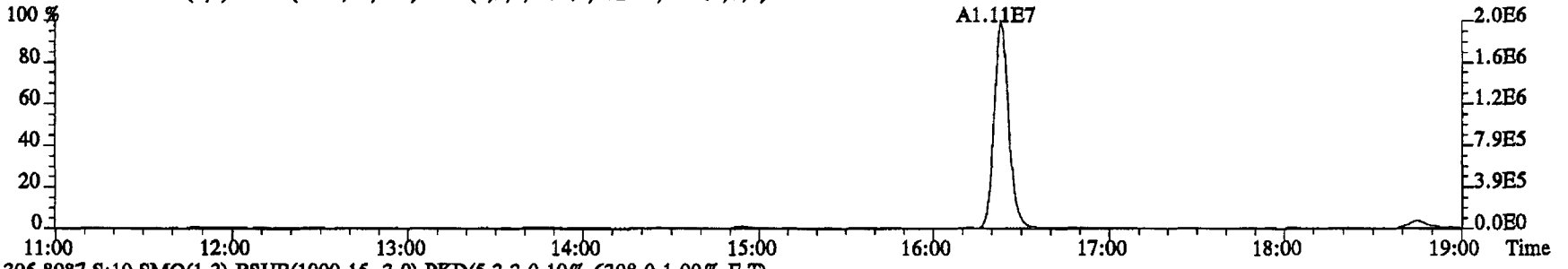
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4108.0,1.00%,F,T)



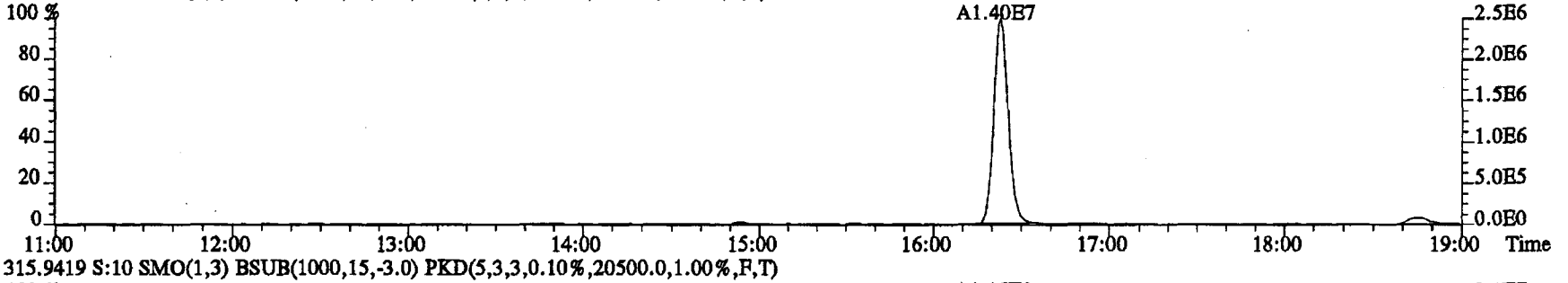
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



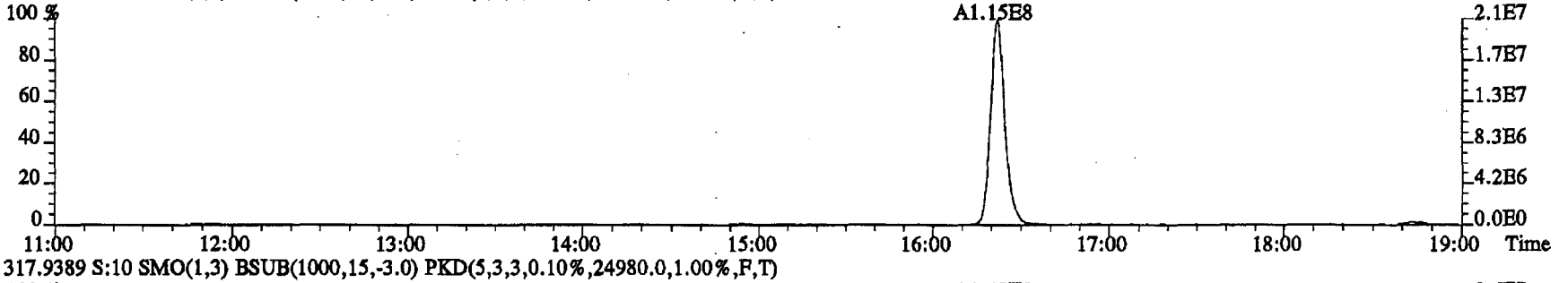
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628.0,1.00%,F,T)



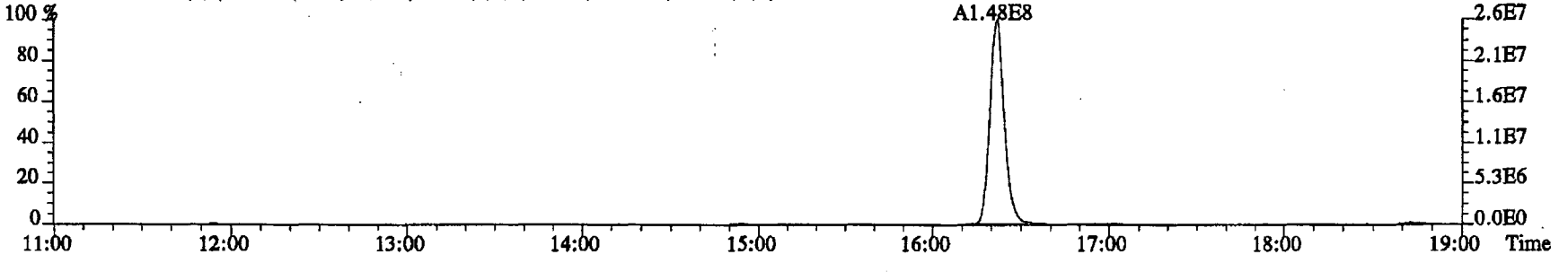
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6308.0,1.00%,F,T)



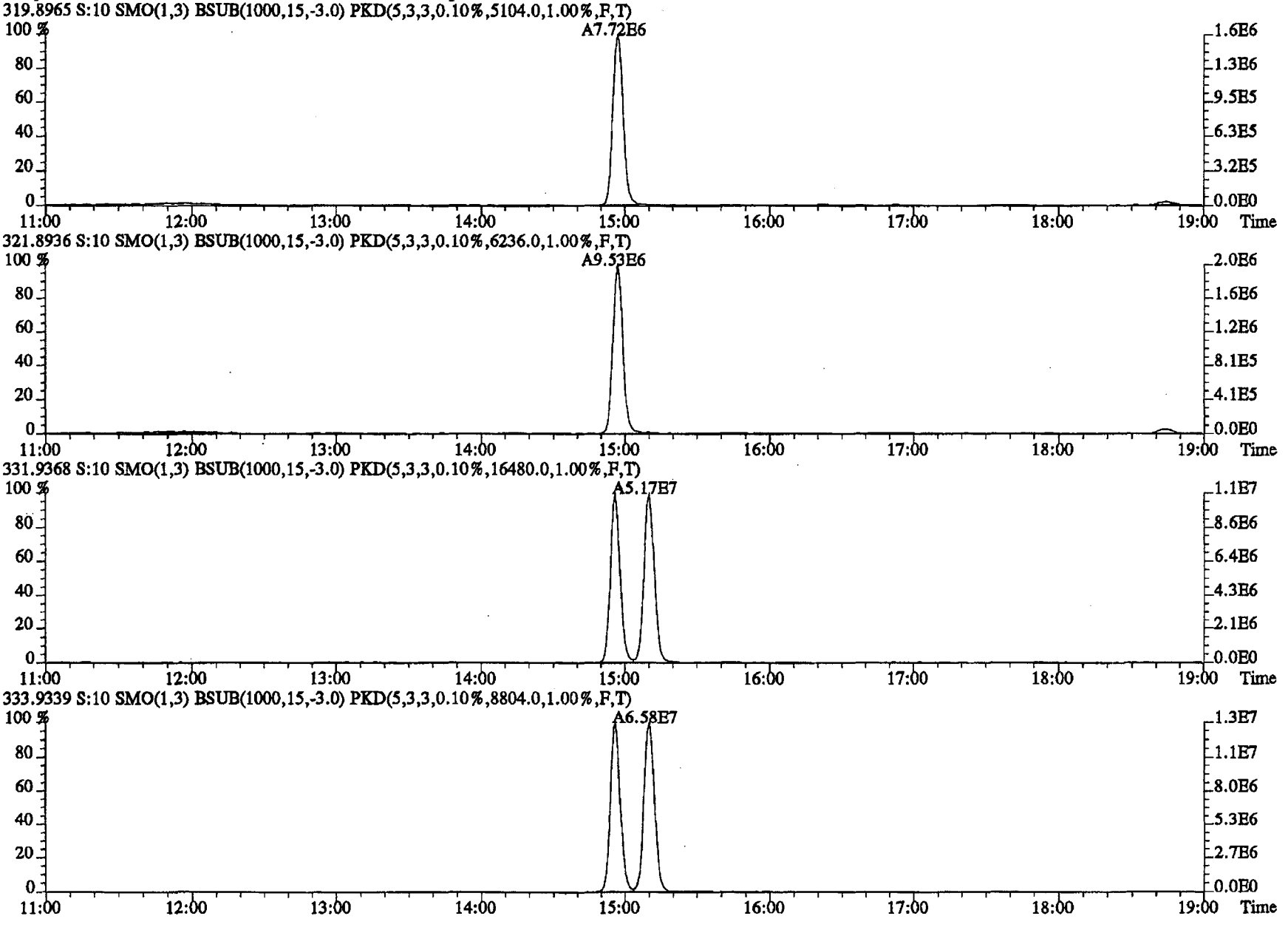
315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20500.0,1.00%,F,T)



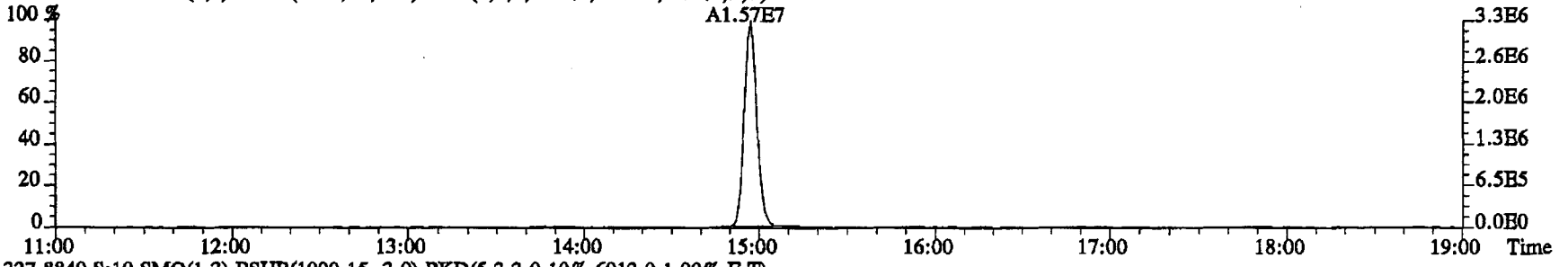
317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24980.0,1.00%,F,T)



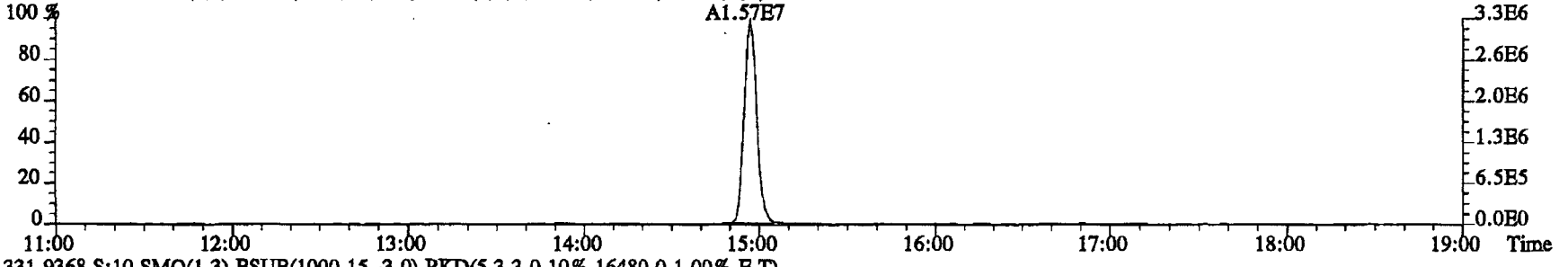
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES



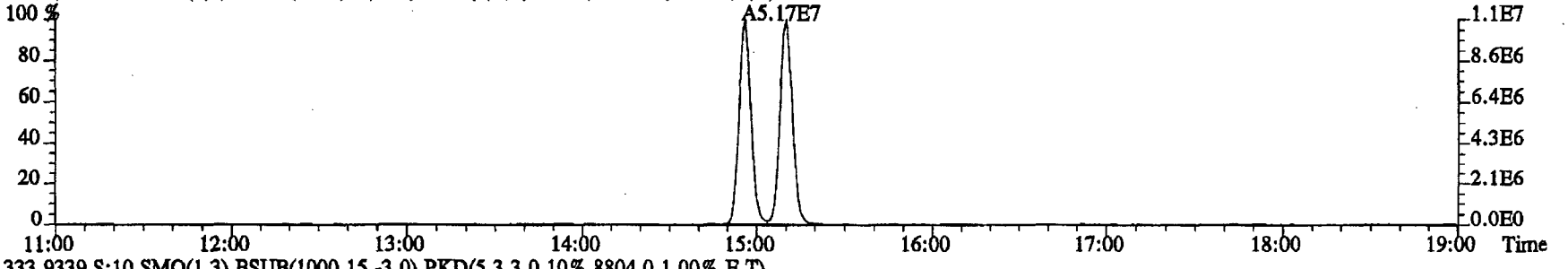
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SB
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)



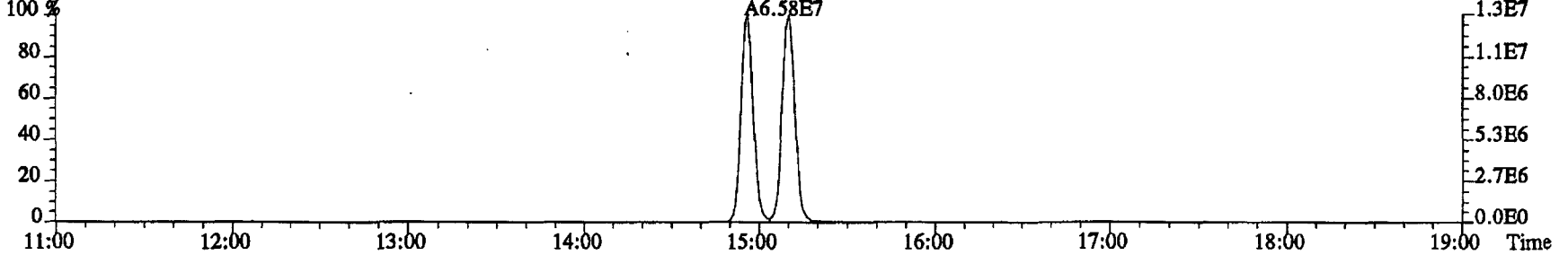
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)



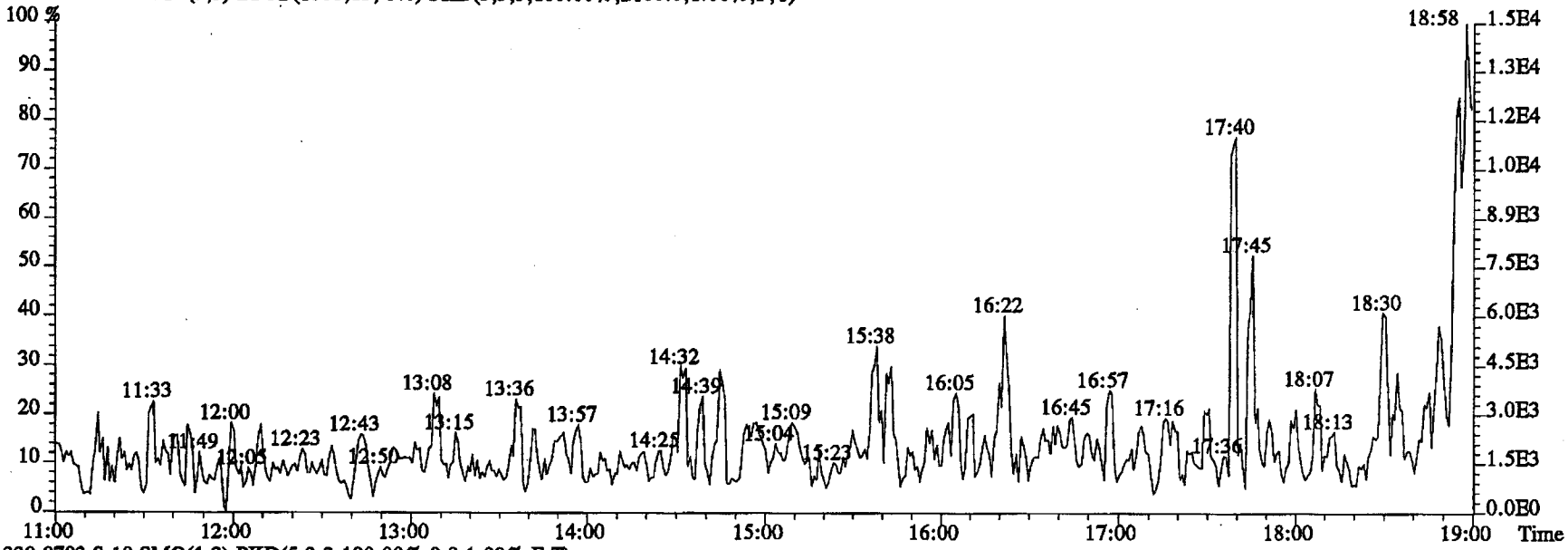
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16480.0,1.00%,F,T)



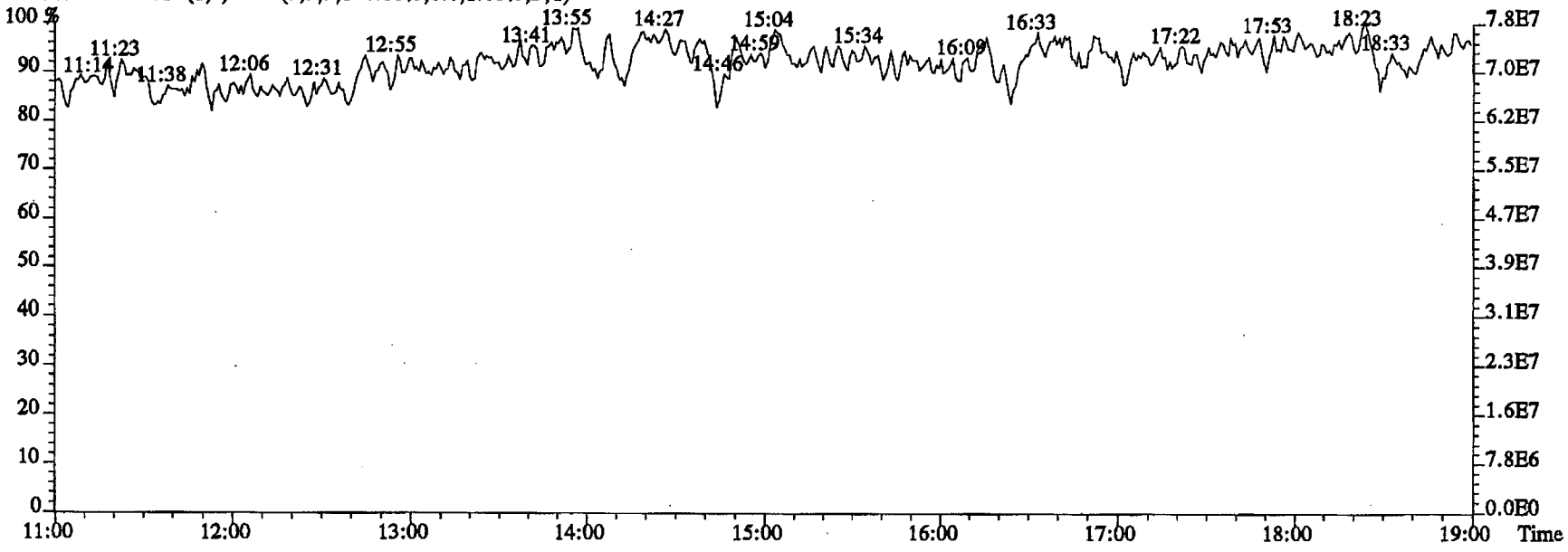
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8804.0,1.00%,F,T)



File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2100.0,1.00%,F,T)



330.9792 S:10 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log Copies and Checklists

RUSH

TestAmerica
West Sacramento Laboratory

Air Toxics Group
Laboratory Prep Sheet
High RES Dioxin/Furans & PCB Analysis

Client: Tronox Lot Number: G0H140454 Date: 8/14/10

Test: To-9 d/f Batch Number: 0226076 SOP Reference Number: ~~WS-OP-~~ WS-IDP-0005 ~~EC7~~ 8/16/

Extraction: 1. Soxhlet On: 1345 Off: 11:50 am 2. Soxhlet On: NA Off: NA

Sample ID	Sample Size	Extraction Date/Init	Soxhlet extraction cycle check	Vortex & Mix Date/Init	Final Volume (mL or uL) (circle one)	Final Conc'n
G0H140454-MB	1uL	8/14/10 SN	8/15 W		20.0 ul	
-LCS					20.0 ul	
-DCS					20.0	
-1					20.0	
-2				8/17 W	20.0	8/17 W
-3					20.0	
-4	↓	↓	↓		20.0	

All Samples/ Internal Standard (IS)addition: Standard Name: 8290/1613 daily IS END: 10/31/11

Spike ID Number: 1ODXN398 Volume: 2.0 mL Conc. 2-4 pg/mL

Spiked By: [signature] Witnessed By: [signature] Date: 8/14/10

LCS/LCSD: Standard Name: 8290/1613 daily NS

Spike ID Number: 1ODXN148 Volume: 100 ul Conc. 4-40 pg/ul 5/24/11

Spiked By: [signature] Witnessed By: [signature] Date: 8/14/10

Pre-spike samples: MB only Standard Name: To-9 daily Surr

Spike ID Number: 09DXN351 Volume: 200 ul Conc. 8 pg/ul 10/28/10

Spiked By: [signature] Witnessed By: [signature] Date: 8/14/10

All Samples /Recovery Standard: Standard Name: Daily RS

Spike ID Number: 1ODXN225 Volume: 20 ul Conc. 100 ul

Spiked By: [signature] Witnessed By: T.L Date: 8/17/10

½ Split/Archive Analyst/Date 5.0 mL	IFB Cleanup Analyst/Date	D2 Cleanup Analyst/Date	PCB Si Gel Analyst/Date	Other (list)
MC 8/17/10	MC 8/17/10	—	—	—

Reagent	Supplier	Lot #	Reagent	Supplier	Lot #
DCM	JT Baker	NA	20% DCM:Hexane	NA	3630-67B
Toluene	JT Baker	J17N69	65% DCM:Hexane	NA	3630-67F
~~Hexane~~	JT Baker	J22E49	Silica Gel	NA	4022-4E
H2SO4	JT Baker	NA	Acid Alumina	MP-B10	79

Comments:

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Data Checklist
HRGCMS/LRGCMS Analyses

Batch #: 0226076 Method ID: T09

	DB-5	DB-225
Data Analyst:	OS	OS
Date initiated:	08-20-10	08-20-10
Reviewer:	S	S
Date reviewed:	8/20/10	8/20/10

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓	✓	✓
-Method Blank present?	✓	✓	NA	NA
-LCS/DCS copy present and meets native recovery criteria?	✓	✓	NA	NA
-Internal standard recoveries within limits?*	✓	✓	✓	✓
-Ion ratios within + 15% of theoretical values?	✓	✓	✓	✓
-Other QC (Dup,MS,SD) within specs?**	NA	NA	NA	NA

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓	✓	✓
-All raw data present?	✓	✓	✓	✓
-Standard target DL's used? If RL's are used specify:_____	✓	✓	✓	✓
-DL's below TDL / (LCL) (please circle)?	✓	✓	✓	✓
-All positives reported at levels greater than method blank DL's?	✓	✓	✓	✓
-Correct RRF's used for method?	✓	✓	✓	✓
-Internal standard amounts correct for method?	✓	✓	✓	✓
-Target analytes are not saturated?	✓	✓	✓	✓
-Dilution/splitting of extract taken into account?	NA	NA	NA	NA
-Have dilution calculations been verified?	NA	NA	NA	NA
-Has a manual calculation for the sequence(s) been verified?	✓	✓	✓	✓
-Are retention times (RT) correct?	✓	✓	✓	✓
-Manual integrations checked?	✓	✓	✓	✓

Comments: (Use other side if necessary)

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* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(CI4-CI6), 25-130%(CI7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/17/10
Time: 15:39:15

LEV 1	LEV 2		LEV 1	LEV 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
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 403162 erica X. larson

Concentrationist: 006625 Elizabeth Nguyen

QC BATCH: 0226076

PREP DATE: 8/14/10 13:00
COMP DATE: 8/17/10 13:00

Reviewer/Date: NGUYENE / 8/17/10

Dioxins/Furans, HRGC/HRMS (TO-9)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
9/10/10	8/20/10	G0H140454-001 **L5LAP-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	2.0ML/10DXN398/8290 IS
COMMENTS:															
9/10/10	8/20/10	G0H140454-002 **L5LAR-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	2.0ML/10DXN398/8290 IS
COMMENTS:															
9/11/10	8/20/10	G0H140454-003 **L5LAV-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	2.0ML/10DXN398/8290 IS
COMMENTS:															
9/11/10	8/20/10	G0H140454-004 **L5LA1-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	2.0ML/10DXN398/8290 IS
COMMENTS:															
9/10/10	0/00/00	G0H140000-076 **L5LC4-1-AA**B		11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	200UL/09DXN351/TO-9 SURR 2.0ML/10DXN398/8290 IS
COMMENTS:															
9/10/10	0/00/00	G0H140000-076 **L5LC4-1-AC**C		11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	100UL/10DXN148/8290 NS 2.0ML/10DXN398/8290 IS
COMMENTS:															
9/10/10	0/00/00	G0H140000-076 **L5LC4-1-AD**L	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	DCM	700.0		.0	100UL/10DXN148/8290 NS 2.0ML/10DXN398/8290 IS
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

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West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0226076 **Test:** To-9 d/F

Prep Date: 8/14/10 **Holding Times:** 8-19-10 8/28/10 **NCM:** Y (N)

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

Spike witness: [signature] Date: 8-14-10

2nd Level Reviewer: [signature] Date: 8/19/10

Comments:

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

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West Sacramento

8270C CCV Checklist

Instrument: SV5

ICAL Date: 08/17/10 DFTPP ID: DFT0818

Initiator/Date: KT-08/18/10 Standard ID: HSL0818

Reviewer/Date: 8/18/10 NCM #:

I: 8270C Criteria

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

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

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	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dinitrophenol	☒	☑	Flouranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-Chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☒	☑
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☑

V: DOD QSM V3 Criteria	Initiated	Reviewed
For 8270, CCCs must be ≤ 20% D.	☒	☑
RRFs for SPCCs must meet minimum response factor criteria	☒	☑
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
SIM: All analytes must be ≤ 20%	☐NA	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☑

Notes:

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

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

Inst ID : sv5.i
Batch ID : 081810.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
18-AUG-2010	11:12	srs	QC	QC001.D	NA	NA	NA		
18-AUG-2010	11:36	srs	DFTPP 50ug/ml	DFT0818.D	NA	NA	NA		
18-AUG-2010	11:56	srs	HSL_050 ug/ml CS-4	HSL0818.D	NA	NA	NA		
18-AUG-2010	12:22	srs	AP9_050 ug/ml CS-4	AP90818.D	NA	NA	NA		
18-AUG-2010	13:51	KT	L42991AA G0H040000-154B	S081801.D	1000 mL	1 mL	1	QL	
18-AUG-2010	14:17	KT	L42991AC G0H040000-154C	S081802.D	1000 mL	1 mL	1	QL	
18-AUG-2010	14:43	KT	L4WAX1AA G0G290577-1	S081803.D	786.9 mL	1 mL	1	QL	
18-AUG-2010	15:09	KT	L5LC51AA G0H140000-077B	S081804.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	15:35	KT	L5LC51AC G0H140000-077C	S081805.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	16:01	KT	L5LC51AD G0H140000-077L	S081806.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	16:27	KT	L5LA21AA G0H140454-5	S081807.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	16:53	KT	L5LA61AA G0H140454-6	S081808.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	17:19	KT	L5LA81AA G0H140454-7	S081809.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	17:45	KT	L5LCB1AA G0H140454-8	S081810.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	18:11	KT	L5EE81AA G0H110000-146B	S081811.D	1000 mL	1 mL	1	QL	
18-AUG-2010	18:37	KT	L5EE81AC G0H110000-146C	S081812.D	1000 mL	1 mL	1	QL	
18-AUG-2010	19:03	KT	L5EE81AD G0H110000-146L	S081813.D	1000 mL	1 mL	1	QL	
18-AUG-2010	19:29	KT	L48EG1AE G0H060535-1	S081814.D	1048.19 mL	1 mL	1	QL	
18-AUG-2010	19:55	KT	L48FC1AF G0H060535-2	S081815.D	992.13 mL	1 mL	1	QL	
18-AUG-2010	20:21	KT	L48FF1AF G0H060535-3	S081816.D	969.49 mL	1 mL	1	QL	

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 18-AUG-2010 11:56
Lab File ID: HSL0818.D Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Analysis Type: Init. Cal. Times: 17:32 23:55
Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\081810.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.46886	1.44906	1.44906	0.010	-1.34755	50.00000	Averaged
$ 8 Phenol-d5	1.88858	1.82482	1.82482	0.010	-3.37589	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.57465	1.55784	1.55784	0.010	-1.06701	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98736	0.95169	0.95169	0.010	-3.61237	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.34812	0.36038	0.36038	0.010	3.52148	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.26481	1.22322	1.22322	0.010	-3.28893	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.14248	0.15273	0.15273	0.010	7.19383	50.00000	Averaged
$ 14 Terphenyl-d14	0.78234	0.77092	0.77092	0.010	-1.46040	50.00000	Averaged
15 N-Nitrosodimethylamine	1.02221	1.00926	1.00926	0.010	-1.26670	50.00000	Averaged
16 Pyridine	1.70686	1.55075	1.55075	0.010	-9.14583	50.00000	Averaged
23 Aniline	2.41175	2.32025	2.32025	0.010	-3.79416	50.00000	Averaged
24 Phenol	2.00373	1.96396	1.96396	0.010	-1.98485	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.56419	1.48887	1.48887	0.010	-4.81491	50.00000	Averaged
27 2-Chlorophenol	1.58151	1.53807	1.53807	0.010	-2.74643	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74308	1.65180	1.65180	0.010	-5.23674	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78698	1.68469	1.68469	0.010	-5.72434	20.00000	Averaged
30 Benzyl Alcohol	1.06550	1.03880	1.03880	0.010	-2.50618	50.00000	Averaged
31 1,2-Dichlorobenzene	1.64484	1.61881	1.61881	0.010	-1.58254	50.00000	Averaged
32 2-Methylphenol	1.50265	1.46110	1.46110	0.010	-2.76498	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	3.13925	2.96395	2.96395	0.010	-5.58412	50.00000	Averaged
34 4-Methylphenol	1.56887	1.55833	1.55833	0.010	-0.67205	50.00000	Averaged
36 Hexachloroethane	0.60856	0.59721	0.59721	0.010	-1.86448	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.12205	1.08632	1.08632	0.050	-3.18401	50.00000	Averaged
42 Nitrobenzene	0.34995	0.35951	0.35951	0.010	2.73068	50.00000	Averaged
44 Isophorone	0.68899	0.69221	0.69221	0.010	0.46667	50.00000	Averaged
45 2-Nitrophenol	0.16925	0.18142	0.18142	0.010	7.19064	20.00000	Averaged
46 2,4-Dimethyphenol	0.36121	0.36692	0.36692	0.010	1.58283	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40385	0.41289	0.41289	0.010	2.23737	50.00000	Averaged
49 2,4-Dichlorophenol	0.25282	0.25849	0.25849	0.010	2.24065	20.00000	Averaged
50 Benzoic Acid	50.00000	55.36527	0.18472	0.010	10.73054	0.000e+000	Quadratic
51 1,2,4-Trichlorobenzene	0.28311	0.27581	0.27581	0.010	-2.57617	50.00000	Averaged
52 Naphthalene	1.12878	1.12292	1.12292	0.010	-0.51914	50.00000	Averaged
54 4-Chloroaniline	0.44121	0.45168	0.45168	0.010	2.37403	50.00000	Averaged
57 Hexachlorobutadiene	0.13163	0.13400	0.13400	0.010	1.79860	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30081	0.31123	0.31123	0.010	3.46526	20.00000	Averaged
63 2-Methylnaphthalene	0.68895	0.68954	0.68954	0.010	0.08627	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.26987	0.28125	0.28125	0.050	4.21864	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.29827	0.29647	0.29647	0.010	-0.60576	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.32276	0.31958	0.31958	0.010	-0.98532	50.00000	Averaged
71 2-Chloronaphthalene	1.12450	1.09051	1.09051	0.010	-3.02295	50.00000	Averaged
73 2-Nitroaniline	0.34605	0.37515	0.37515	0.010	8.40897	50.00000	Averaged
76 Dimethylphthalate	1.31267	1.27761	1.27761	0.010	-2.67062	50.00000	Averaged

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

$\frac{479686}{452864} \times \frac{40}{50} = 0.84738$ RJ 8/18/10

8/18/10

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 18-AUG-2010 11:56
Lab File ID: HSL0818.D Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Analysis Type: Init. Cal. Times: 17:32 23:55
Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\081810.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96062	1.94897	1.94897	0.010	-0.59463	50.00000	Averaged
79 2,6-Dinitrotoluene	0.27795	0.29471	0.29471	0.010	6.02839	50.00000	Averaged
80 3-Nitroaniline	0.36843	0.37879	0.37879	0.010	2.81272	50.00000	Averaged
81 Acenaphthene	1.25957	1.22312	1.22312	0.010	-2.89361	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	54.02624	0.13775	0.050	8.05248	0.000e+000	Quadratic
83 Dibenzofuran	1.65377	1.60037	1.60037	0.010	-3.22925	50.00000	Averaged
84 4-Nitrophenol	0.16197	0.16340	0.16340	0.050	0.87839	50.00000	Averaged
86 2,4-Dinitrotoluene	50.00000	49.10581	0.37365	0.010	-1.78838	0.000e+000	Linear
91 Fluorene	1.34529	1.33223	1.33223	0.010	-0.97057	50.00000	Averaged
92 Diethylphthalate	1.40387	1.32730	1.32730	0.010	-5.45404	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55070	0.55177	0.55177	0.010	0.19303	50.00000	Averaged
94 4-Nitroaniline	0.35951	0.39216	0.39216	0.010	9.08189	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	52.98105	0.11831	0.010	5.96210	0.000e+000	Quadratic
98 N-Nitrosodiphenylamine	0.61032	0.61178	0.61178	0.010	0.23953	20.00000	Averaged
100 Azobenzene	0.90868	0.92466	0.92466	0.010	1.75842	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.18844	0.18738	0.18738	0.010	-0.56295	50.00000	Averaged
108 Hexachlorobenzene	0.20706	0.19612	0.19612	0.010	-5.28161	50.00000	Averaged
110 Pentachlorophenol	0.11470	0.12447	0.12447	0.010	8.51834	20.00000	Averaged
114 Phenanthrene	1.26018	1.24534	1.24534	0.010	-1.17785	50.00000	Averaged
115 Anthracene	1.23982	1.25857	1.25857	0.010	1.51243	50.00000	Averaged
118 Carbazole	1.15818	1.17390	1.17390	0.010	1.35776	50.00000	Averaged
120 Di-n-Butylphthalate	1.38426	1.43244	1.43244	0.010	3.48063	50.00000	Averaged
126 Fluoranthene	1.08922	1.12991	1.12991	0.010	3.73593	20.00000	Averaged
127 Benzidine	50.00000	49.03100	0.74919	0.010	-1.93799	0.000e+000	Quadratic
128 Pyrene	1.27830	1.26863	1.26863	0.010	-0.75619	50.00000	Averaged
134 3,3'-dimethylbenzidine	50.00000	49.72509	0.66300	0.010	-0.54982	0.000e+000	Quadratic
136 Butylbenzylphthalate	0.61636	0.63993	0.63993	0.010	3.82314	50.00000	Averaged
138 Benzo(a)Anthracene	1.04161	1.05140	1.05140	0.010	0.93959	50.00000	Averaged
139 Chrysene	1.10690	1.07154	1.07154	0.010	-3.19382	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.35334	0.37913	0.37913	0.010	7.30009	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.84997	0.89486	0.89486	0.010	5.28145	50.00000	Averaged
142 Di-n-octylphthalate	50.00000	51.78391	1.36333	0.010	3.56781	0.000e+000	Quadratic
144 Benzo(b)fluoranthene	0.91826	0.93513	0.93513	0.010	1.83716	50.00000	Averaged
145 Benzo(k)fluoranthene	1.14994	1.12423	1.12423	0.010	-2.23601	50.00000	Averaged
147 Benzo(e)pyrene	0.94298	0.95372	0.95372	0.010	1.13885	50.00000	Averaged
148 Benzo(a)pyrene	1.01493	1.06413	1.06413	0.010	4.84752	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.79966	0.84738	0.84738	0.010	5.96787	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.89625	0.91510	0.91510	0.010	2.10305	50.00000	Averaged
153 Benzo(g,h,i)perylene	0.95399	0.98688	0.98688	0.010	3.44715	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06820	2.05936	2.05936	0.010	-0.42756	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081810.B\HSL0818.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 18-AUG-2010 11:56
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\081810.B\8270f.m
Meth Date : 18-Aug-2010 17:16 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 5 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)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	132971	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	563732	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	304639	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	467607	40.0000	
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	466856	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	452864	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	240854	50.0000	49.33
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	303311	50.0000	48.31
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	258935	50.0000	49.47
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	158184	50.0000	48.19
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	253949	50.0000	51.76
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	465799	50.0000	48.36
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	58160	50.0000	53.60
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	449883	50.0000	49.27
15	N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	167753	50.0000	49.37
16	Pyridine	79	2.023	2.023	(0.476)	257756	50.0000	45.43
23	Aniline	93	3.950	3.950	(0.929)	385657	50.0000	48.10
24	Phenol	94	3.899	3.899	(0.917)	326437	50.0000	49.01
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	247471	50.0000	47.59
27	2-Chlorophenol	128	4.064	4.064	(0.956)	255649	50.0000	48.63
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	274552	50.0000	47.38
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	280018	50.0000	47.14
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	172663	50.0000	48.75
31	1,2-Dichlorobenzene	146	4.469	4.469	(1.051)	269069	50.0000	49.21
32	2-Methylphenol	108	4.541	4.541	(1.068)	242855	50.0000	48.62
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.583	(1.078)	492650	50.0000	47.21
34	4-Methylphenol	108	4.697	4.697	(1.105)	259016	50.0000	49.66
36	Hexachloroethane	117	4.800	4.800	(1.129)	99265	50.0000	49.07
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	180562	50.0000	48.41
42	Nitrobenzene	77	4.904	4.904	(0.865)	253334	50.0000	51.36
44	Isophorone	82	5.163	5.163	(0.910)	487773	50.0000	50.23
45	2-Nitrophenol	139	5.267	5.267	(0.929)	127840	50.0000	53.60
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	258558	50.0000	50.79

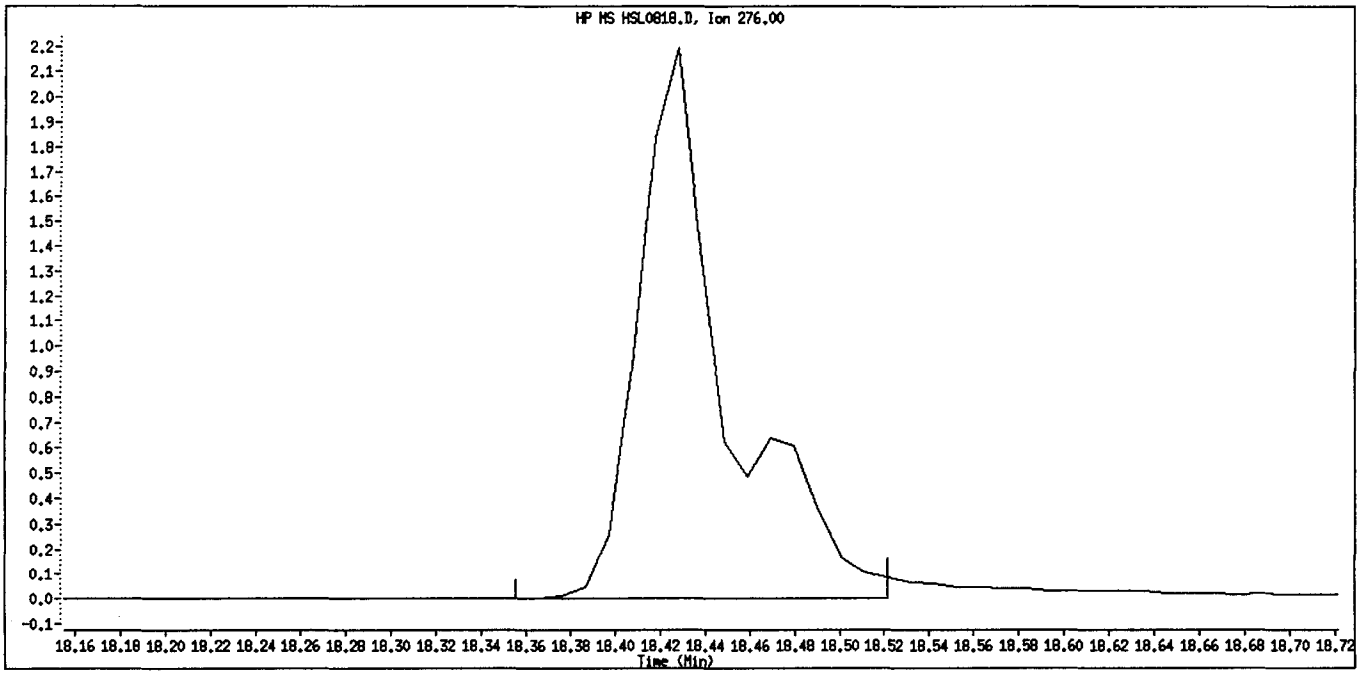
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	290946	50.0000	51.12
49 2,4-Dichlorophenol	162	5.515	5.515	(0.973)	182147	50.0000	51.12
50 Benzoic Acid	122	5.380	5.380	(0.949)	130166	50.0000	55.36
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	194357	50.0000	48.71
52 Naphthalene	128	5.702	5.702	(1.005)	791285	50.0000	49.74
54 4-Chloroaniline	127	5.785	5.785	(1.020)	318283	50.0000	51.19
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	94426	50.0000	50.90
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	219314	50.0000	51.73
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	485895	50.0000	50.04
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	107100	50.0000	52.11
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	112894	50.0000	49.70
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	121696	50.0000	49.51
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	415265	50.0000	48.49
73 2-Nitroaniline	65	7.256	7.256	(0.931)	142856	50.0000	54.20
76 Dimethylphthalate	163	7.526	7.526	(0.965)	486512	50.0000	48.66
77 Acenaphthylene	152	7.598	7.598	(0.975)	742164	50.0000	49.70
79 2,6-Dinitrotoluene	165	7.609	7.609	(0.976)	112224	50.0000	53.01
80 3-Nitroaniline	138	7.764	7.764	(0.996)	144242	50.0000	51.41
81 Acenaphthene	153	7.826	7.826	(1.004)	465764	50.0000	48.55
82 2,4-Dinitrophenol	184	7.888	7.888	(1.012)	52456	50.0000	54.03
83 Dibenzofuran	168	8.033	8.033	(1.031)	609419	50.0000	48.38
84 4-Nitrophenol	109	7.971	7.971	(1.023)	62221	50.0000	50.44
86 2,4-Dinitrotoluene	165	8.085	8.085	(1.037)	142287	50.0000	49.10
91 Fluorene	166	8.479	8.479	(1.088)	507311	50.0000	49.51
92 Diethylphthalate	149	8.427	8.427	(1.081)	505435	50.0000	47.27
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	210112	50.0000	50.10
94 4-Nitroaniline	138	8.552	8.552	(1.097)	149333	50.0000	54.54
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	69151	50.0000	52.98
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	419096	58.6000	58.74
100 Azobenzene	77	8.697	8.697	(0.889)	540471	50.0000	50.88
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	109527	50.0000	49.72
108 Hexachlorobenzene	284	9.350	9.350	(0.956)	114634	50.0000	47.36
110 Pentachlorophenol	266	9.609	9.609	(0.982)	72755	50.0000	54.26
114 Phenanthrene	178	9.816	9.816	(1.003)	727911	50.0000	49.41
115 Anthracene	178	9.888	9.888	(1.011)	735645	50.0000	50.76
118 Carbazole	167	10.147	10.147	(1.037)	686156	50.0000	50.68
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	837275	50.0000	51.74
126 Fluoranthene	202	11.723	11.723	(1.198)	660441	50.0000	51.87
127 Benzidine	184	11.992	11.992	(0.843)	437204	50.0000	49.03
128 Pyrene	202	12.096	12.096	(0.850)	740337	50.0000	49.62
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	386907	50.0000	49.72
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	373442	50.0000	51.91
138 Benzo(a)Anthracene	228	14.210	14.210	(0.999)	613565	50.0000	50.47
139 Chrysene	228	14.272	14.272	(1.003)	625321	50.0000	48.40
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	221249	50.0000	53.65
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	522214	50.0000	52.64
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	795596	50.0000	51.78
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	529360	50.0000	50.92
145 Benzo(k)fluoranthene	252	16.086	16.086	(0.967)	636403	50.0000	48.88
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	539879	50.0000	50.57
148 Benzo(a)pyrene	252	16.541	16.541	(0.994)	602381	50.0000	52.42
151 Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	479686	50.0000	52.98(M)
152 Dibenzo(a,h)anthracene	278	18.479	18.479	(1.111)	518020	50.0000	51.05
153 Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	558653	50.0000	51.72

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1165763	50.0000	

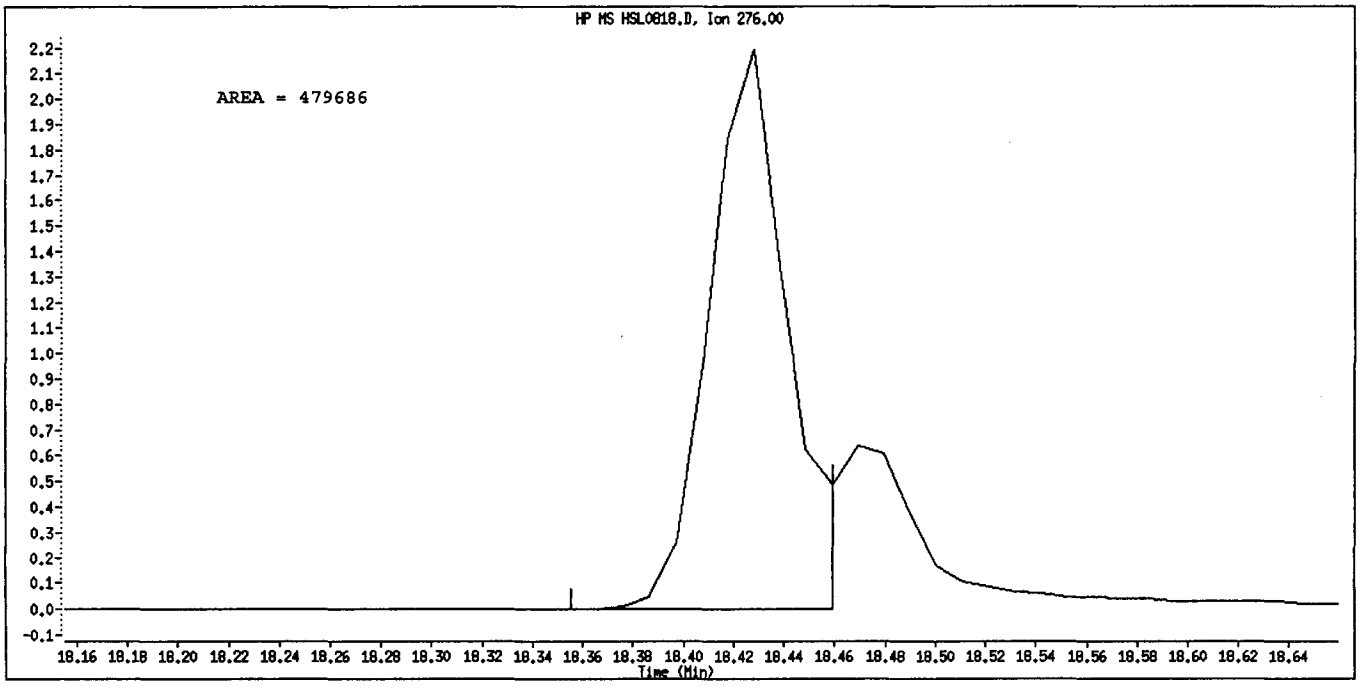
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL0818.D
Inj. Date and Time: 18-AUG-2010 11:56
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 08/18/2010



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\081810.B\HSL0818.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 18-AUG-2010 11:56
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\081810.B\8270f.m
Meth Date : 18-Aug-2010 16:31 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 5 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)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	132971	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	563732	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	304639	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	467607	40.0000	
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	466856	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	452864	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	240854	50.0000	49.33
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	303311	50.0000	48.31
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	258935	50.0000	49.47
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	158184	50.0000	48.19
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	253949	50.0000	51.76
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	465799	50.0000	48.36
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	58160	50.0000	53.60
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	449883	50.0000	49.27
15	N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	167753	50.0000	49.37
16	Pyridine	79	2.023	2.023	(0.476)	257756	50.0000	45.43
23	Aniline	93	3.950	3.950	(0.929)	385657	50.0000	48.10
24	Phenol	94	3.899	3.899	(0.917)	326437	50.0000	49.01
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	247471	50.0000	47.59
27	2-Chlorophenol	128	4.064	4.064	(0.956)	255649	50.0000	48.63
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	274552	50.0000	47.38
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	280018	50.0000	47.14
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	172663	50.0000	48.75
31	1,2-Dichlorobenzene	146	4.469	4.469	(1.051)	269069	50.0000	49.21
32	2-Methylphenol	108	4.541	4.541	(1.068)	242855	50.0000	48.62
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.583	(1.078)	492650	50.0000	47.21
34	4-Methylphenol	108	4.697	4.697	(1.105)	259016	50.0000	49.66
36	Hexachloroethane	117	4.800	4.800	(1.129)	99265	50.0000	49.07
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	180562	50.0000	48.41
42	Nitrobenzene	77	4.904	4.904	(0.865)	253334	50.0000	51.36
44	Isophorone	82	5.163	5.163	(0.910)	487773	50.0000	50.23
45	2-Nitrophenol	139	5.267	5.267	(0.929)	127840	50.0000	53.60
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	258558	50.0000	50.79

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	290946	50.0000	51.12
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	182147	50.0000	51.12
50	Benzoic Acid	122	5.380	5.380	(0.949)	130166	50.0000	55.36
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	194357	50.0000	48.71
52	Naphthalene	128	5.702	5.702	(1.005)	791285	50.0000	49.74
54	4-Chloroaniline	127	5.785	5.785	(1.020)	318283	50.0000	51.19
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	94426	50.0000	50.90
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	219314	50.0000	51.73
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	485895	50.0000	50.04
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	107100	50.0000	52.11
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	112894	50.0000	49.70
70	2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	121696	50.0000	49.51
71	2-Chloronaphthalene	162	7.090	7.090	(0.910)	415265	50.0000	48.49
73	2-Nitroaniline	65	7.256	7.256	(0.931)	142856	50.0000	54.20
76	Dimethylphthalate	163	7.526	7.526	(0.965)	486512	50.0000	48.66
77	Acenaphthylene	152	7.598	7.598	(0.975)	742164	50.0000	49.70
79	2,6-Dinitrotoluene	165	7.609	7.609	(0.976)	112224	50.0000	53.01
80	3-Nitroaniline	138	7.764	7.764	(0.996)	144242	50.0000	51.41
81	Acenaphthene	153	7.826	7.826	(1.004)	465764	50.0000	48.55
82	2,4-Dinitrophenol	184	7.888	7.888	(1.012)	52456	50.0000	54.03
83	Dibenzofuran	168	8.033	8.033	(1.031)	609419	50.0000	48.38
84	4-Nitrophenol	109	7.971	7.971	(1.023)	62221	50.0000	50.44
86	2,4-Dinitrotoluene	165	8.085	8.085	(1.037)	142287	50.0000	49.10
91	Fluorene	166	8.479	8.479	(1.088)	507311	50.0000	49.51
92	Diethylphthalate	149	8.427	8.427	(1.081)	505435	50.0000	47.27
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	210112	50.0000	50.10
94	4-Nitroaniline	138	8.552	8.552	(1.097)	149333	50.0000	54.54
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	69151	50.0000	52.98
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	419096	58.6000	58.74
100	Azobenzene	77	8.697	8.697	(0.889)	540471	50.0000	50.88
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	109527	50.0000	49.72
108	Hexachlorobenzene	284	9.350	9.350	(0.956)	114634	50.0000	47.36
110	Pentachlorophenol	266	9.609	9.609	(0.982)	72755	50.0000	54.26
114	Phenanthrene	178	9.816	9.816	(1.003)	727911	50.0000	49.41
115	Anthracene	178	9.888	9.888	(1.011)	735645	50.0000	50.76
118	Carbazole	167	10.147	10.147	(1.037)	686156	50.0000	50.68
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	837275	50.0000	51.74
126	Fluoranthene	202	11.723	11.723	(1.198)	660441	50.0000	51.87
127	Benzidine	184	11.992	11.992	(0.843)	437204	50.0000	49.03
128	Pyrene	202	12.096	12.096	(0.850)	740337	50.0000	49.62
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	386907	50.0000	49.72
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	373442	50.0000	51.91
138	Benzo(a)Anthracene	228	14.210	14.210	(0.999)	613565	50.0000	50.47
139	Chrysene	228	14.272	14.272	(1.003)	625321	50.0000	48.40
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	221249	50.0000	53.65
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	522214	50.0000	52.64
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	795596	50.0000	51.78
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	529360	50.0000	50.92
145	Benzo(k)fluoranthene	252	16.086	16.086	(0.967)	636403	50.0000	48.88
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	539879	50.0000	50.57
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	602381	50.0000	52.42
151	Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	599499	50.0000	66.22
152	Dibenzo(a,h)anthracene	278	18.479	18.479	(1.111)	518020	50.0000	51.05
153	Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	558653	50.0000	51.72

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				1165763	50.0000	49.79(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: HSL0818.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\081810.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	132971	5.28
2 Naphthalene-d8	544958	272479	1089916	563732	3.45
3 Acenaphthene-d10	283970	141985	567940	304639	7.28
4 Phenanthrene-d10	451801	225901	903602	467607	3.50
5 Chrysene-d12	438936	219468	877872	466856	6.36
6 Perylene-d12	413868	206934	827736	452864	9.42

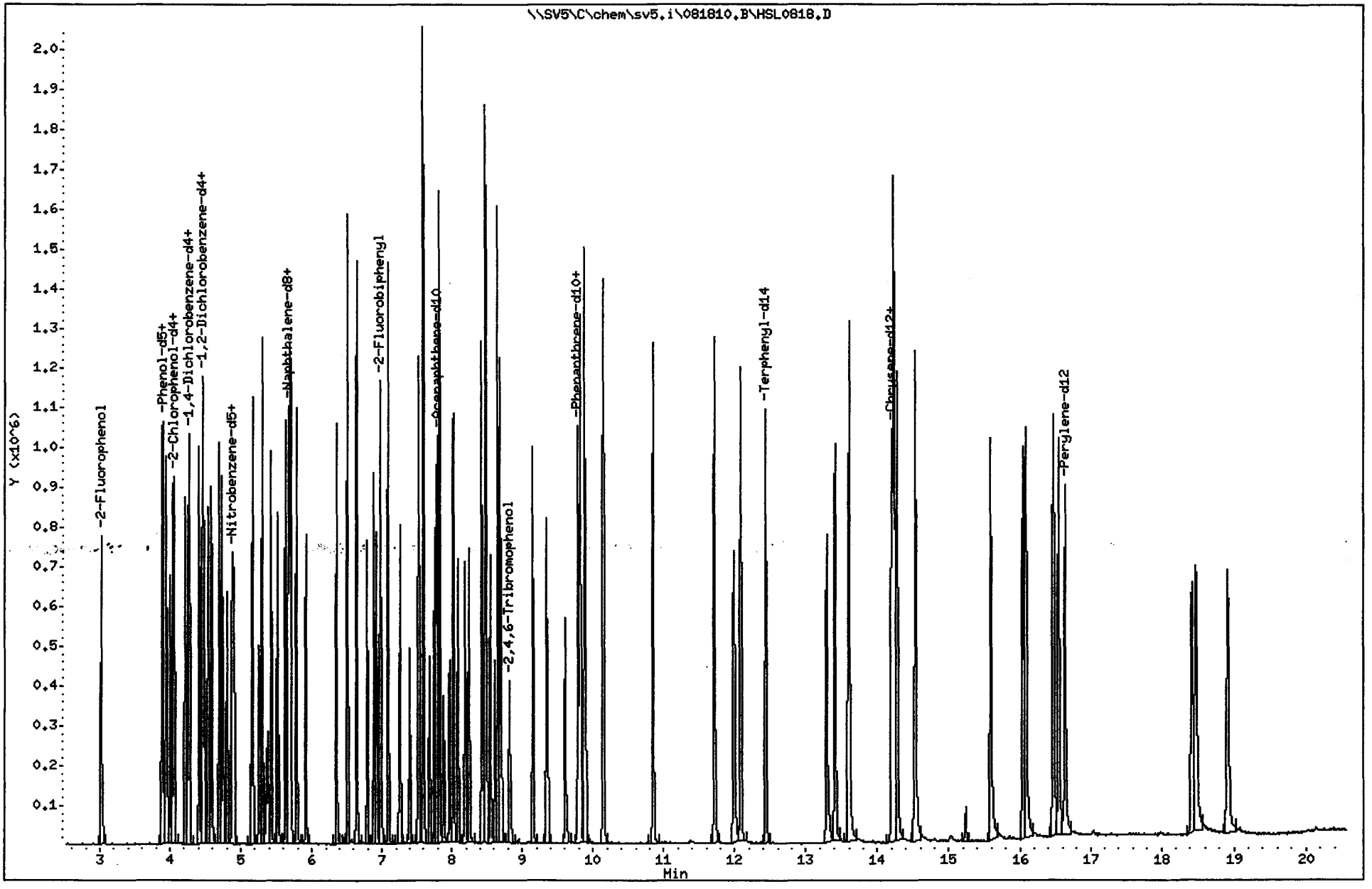
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	0.00

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

Data File: \\SV5\C\chem\sv5.i\081810.B\HSL0818.D
Date : 18-AUG-2010 11:56
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml CS-4;2;;4;;;;4

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

Column phase:



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6519666	5.000	PASS
Benzidine	0.4145889	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	187632	5.6	20.5	PASS

Sample //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D

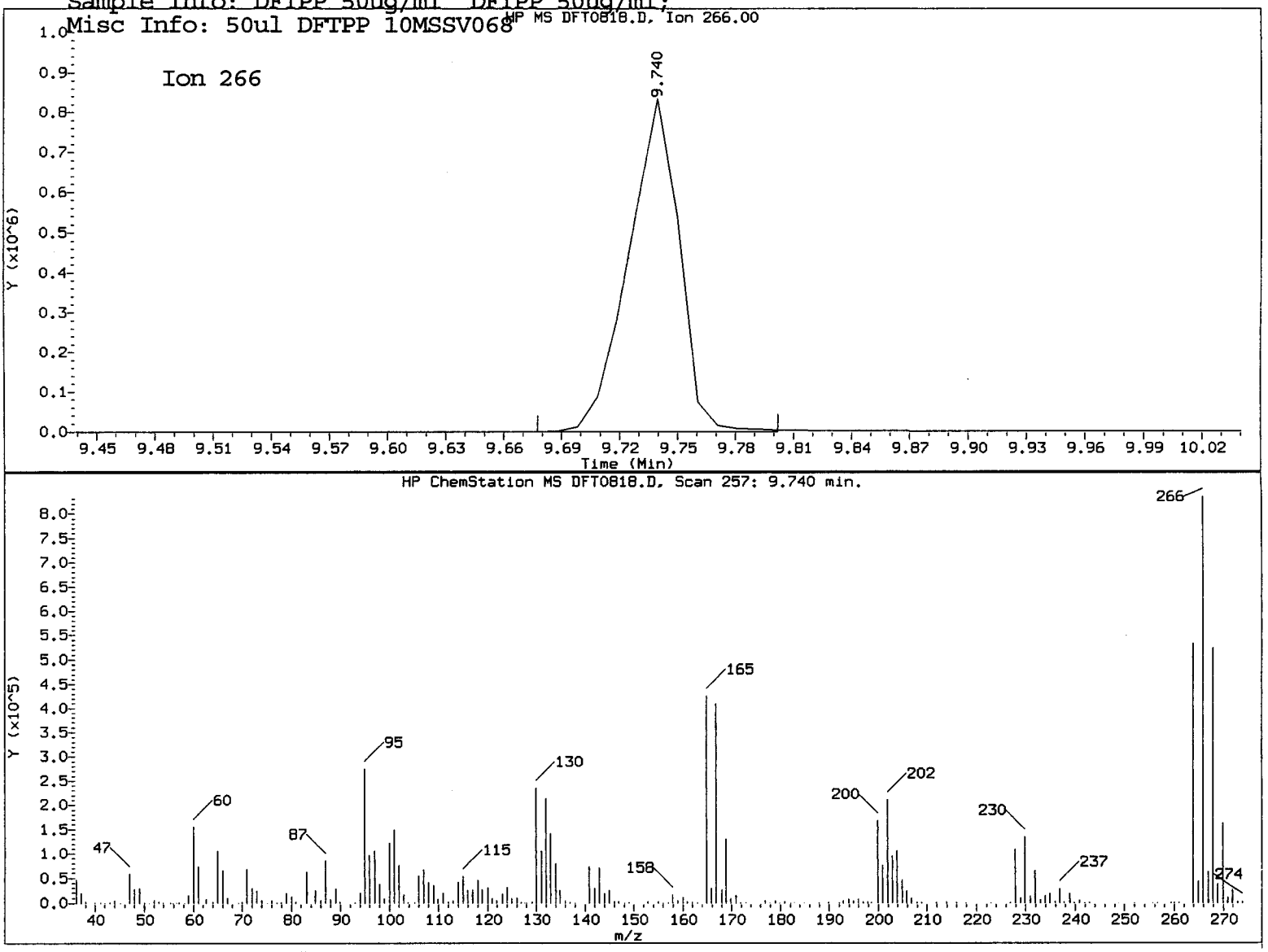
****
*** PASSED ***
****

8/18/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/18/2010 16:30

Datafile Analyzed: //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D
Method Used: \\SV5\C\chem\sv5.i\081810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 18-AUG-2010 11:36 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



Pentachlorophenol
==========
Exp. RT = 9.771
Found RT = 9.740

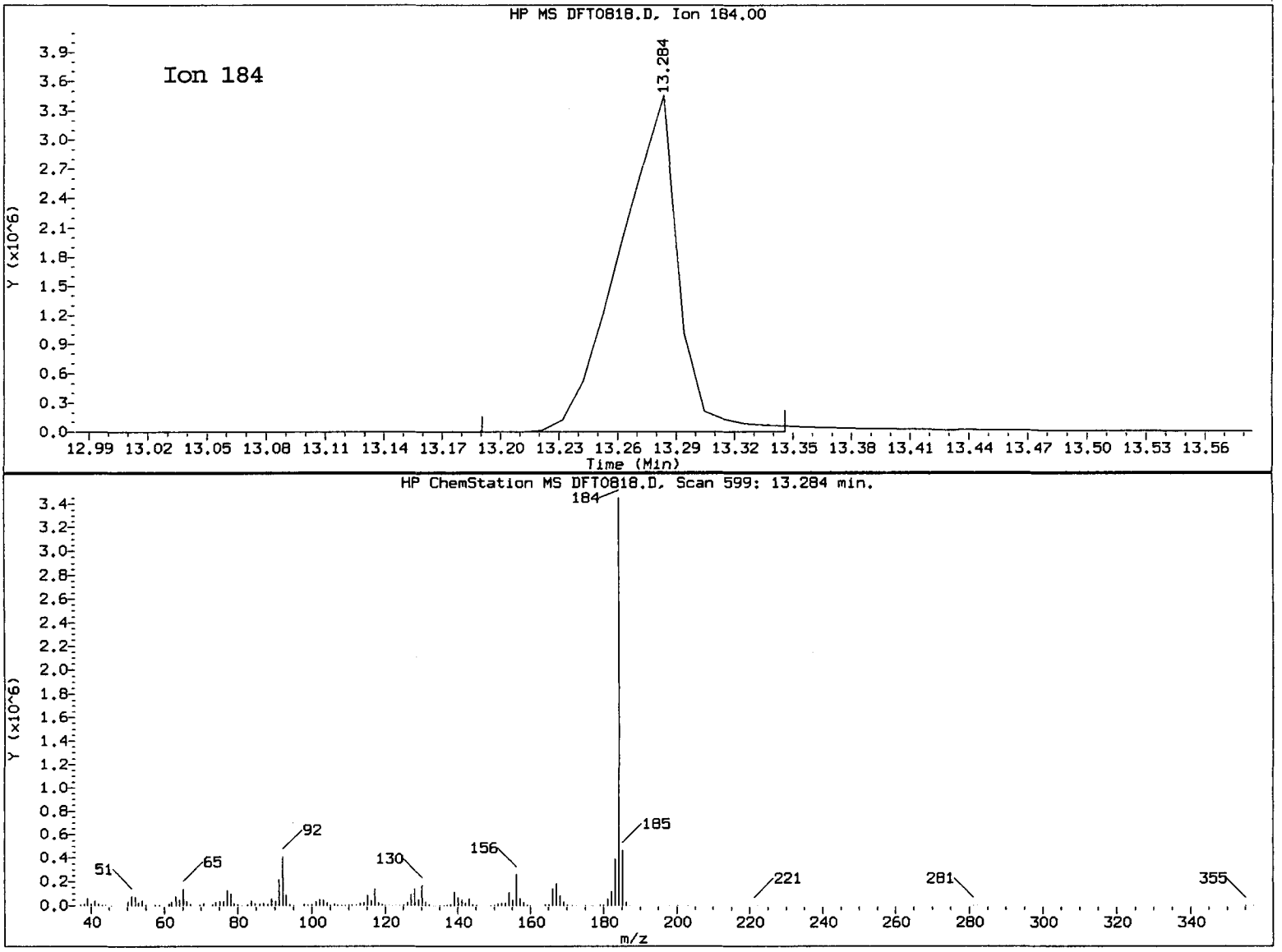
Time1 = 9.708171 Time2 = 9.73965 Time3 = 9.760173
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.652 Maximum Allowed = 5.0

Report Date: 08/18/2010 16:30

Datafile Analyzed: //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D
Method Used: \\SV5\C\chem\sv5.i\081810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 18-AUG-2010 11:36 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



Benzidine
=========
 Exp. RT = 13.315
Found RT = 13.284

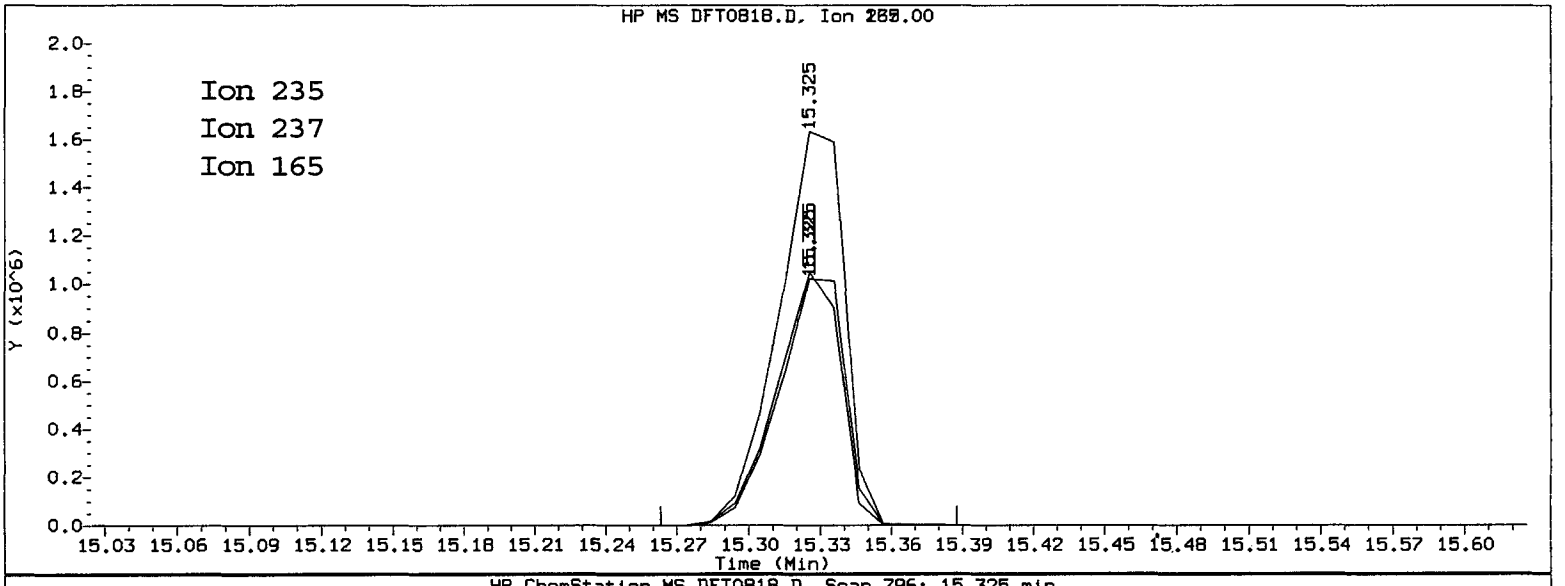
Time1 = 13.23795 Time2 = 13.28382 Time3 = 13.30283
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

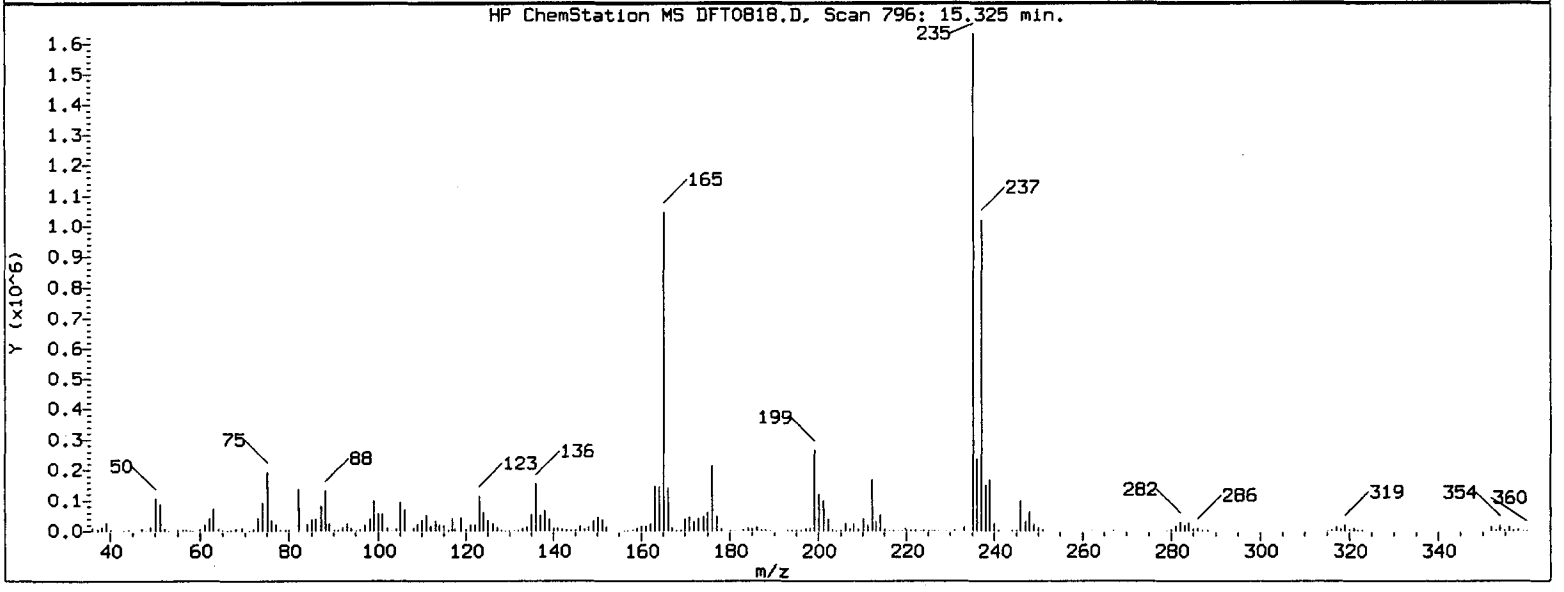
Tailing factor for Benzidine OK

Tail Factor = 0.415 Maximum Allowed = 3.0

Report Date: 08/18/2010 16:30

Datafile Analyzed: //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D
Method Used: \\SV5\C\chem\sv5.i\081810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 18-AUG-2010 11:36 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



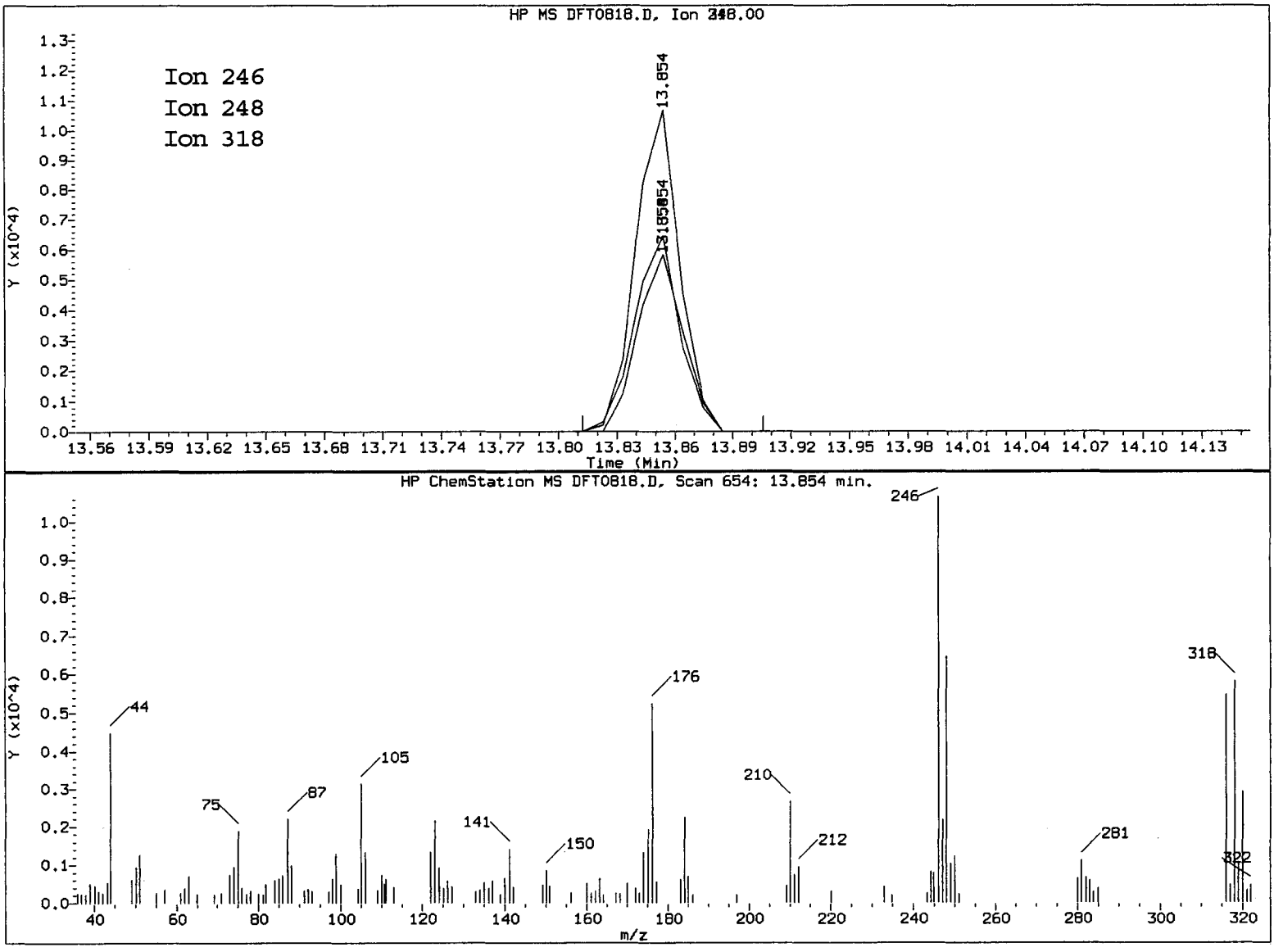


4,4'-DDT
========
Exp. RT = 15.357
Found RT = 15.325

Mass	Area	Ratio
235	3159877	100.00
237	1997647	63.22
165	1967818	62.28

Report Date: 08/18/2010 16:30

Datafile Analyzed: //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D
Method Used: \\SV5\C\chem\sv5.i\081810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 18-AUG-2010 11:36 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068

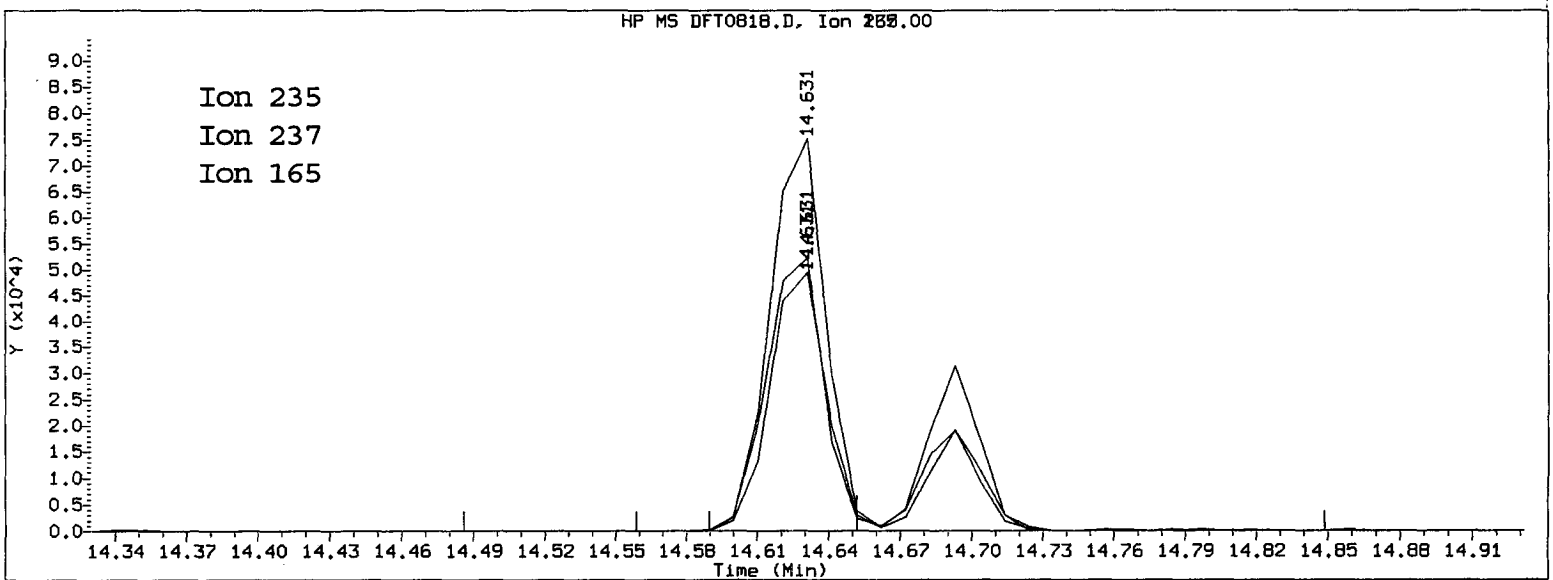


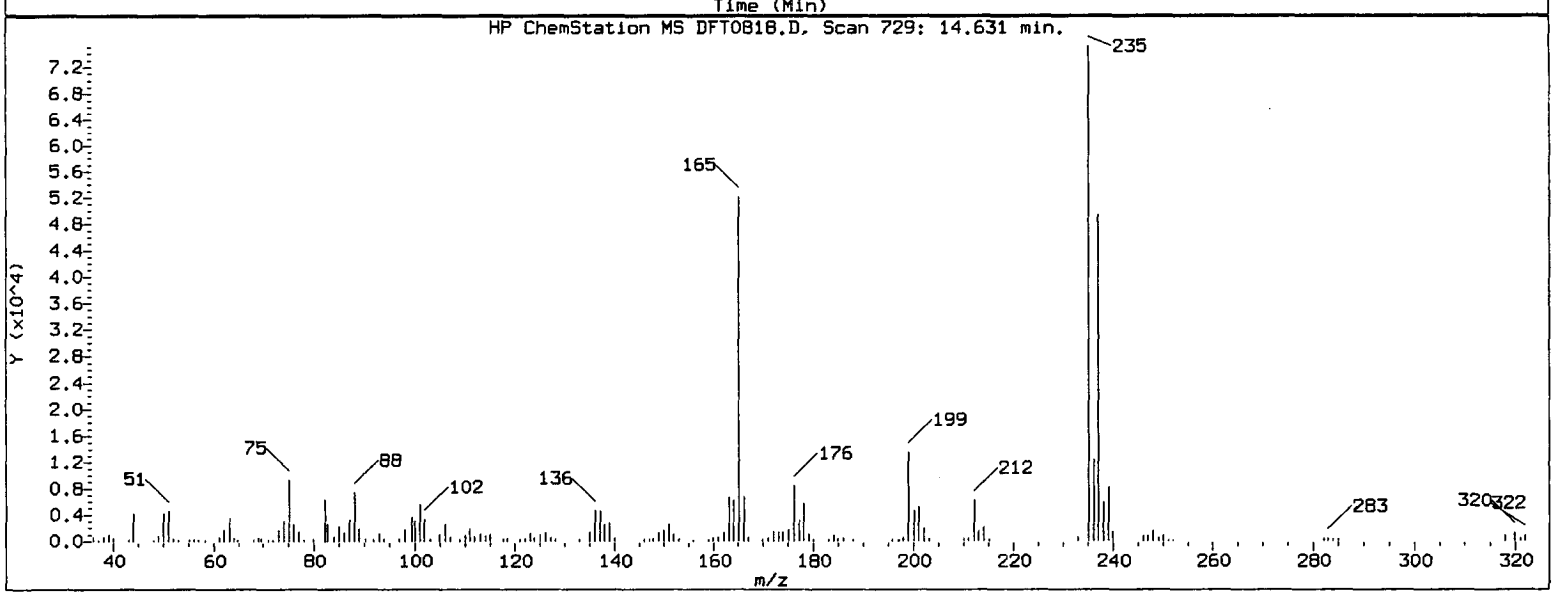
4,4'-DDE
========
Exp. RT = 13.875
Found RT = 13.854

Mass	Area	Ratio
246	16827	100.00
248	10576	62.85
318	9584	56.95

Report Date: 08/18/2010 16:30

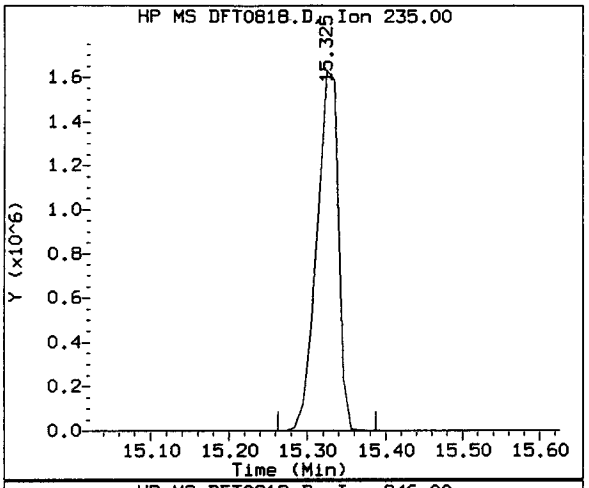
Datafile Analyzed: //SV5/C/chem/sv5.i/081810.B/DFT0818.D/DFT0818.D
Method Used: \\SV5\C\chem\sv5.i\081810.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 18-AUG-2010 11:36 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



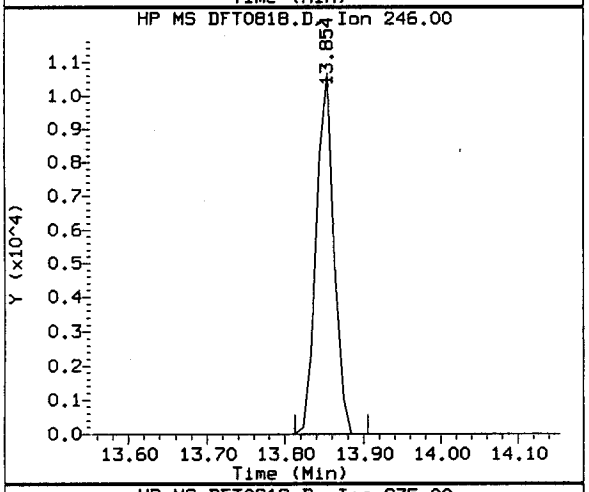


4,4'-DDD
========
 Exp. RT = 14.652
Found RT = 14.631

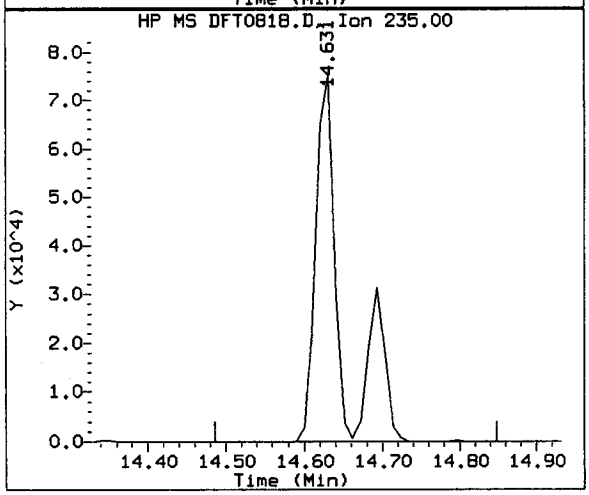
Mass	Area	Ratio
235	170805	100.00
237	81414	47.66
165	88074	51.56



Compound: 4,4'-DDT
Quant Mass: 235
RT: 15.325
Area: 3159877



Compound: 4,4'-DDE
Quant Mass: 246
RT: 13.854
Area: 16827



Compound: 4,4'-DDD
Quant Mass: 235
RT: 14.631
Area: 170805

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	187632	5.6	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\081810.B\DFT0818.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 18-AUG-2010 11:36
Operator : srs Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV068
Comment :
Method : \\SV5\C\chem\sv5.i\081810.B\DFTPP.m
Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: SV5

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
11.180	11.201	(0.000)	198	1068544			0.00- 100.00	100.00
11.180	11.201	(0.000)	51	590144			30.00- 80.00	55.23
11.180	11.201	(0.000)	68	7346			0.00- 2.00	1.53
11.180	11.201	(0.000)	69	480064			0.00- 0.00	44.93
11.180	11.201	(0.000)	70	2190			0.00- 2.00	0.46
11.180	11.201	(0.000)	127	616704			25.00- 75.00	57.71
11.180	11.201	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
11.180	11.201	(0.000)	199	70192			5.00- 9.00	6.57
11.180	11.201	(0.000)	275	234368			10.00- 30.00	21.93
11.180	11.201	(0.000)	365	29576			0.75- 0.00	2.77
11.180	11.201	(0.000)	441	124888			0.01- 99.99	73.75
11.180	11.201	(0.000)	442	880832			40.00- 110.00	82.43
11.180	11.201	(0.000)	443	169344			15.00- 24.00	19.23

Data File: \\SV5\C\chem\sv5.i\081810.B\DFT0818.D

Date : 18-AUG-2010 11:36

Client ID:

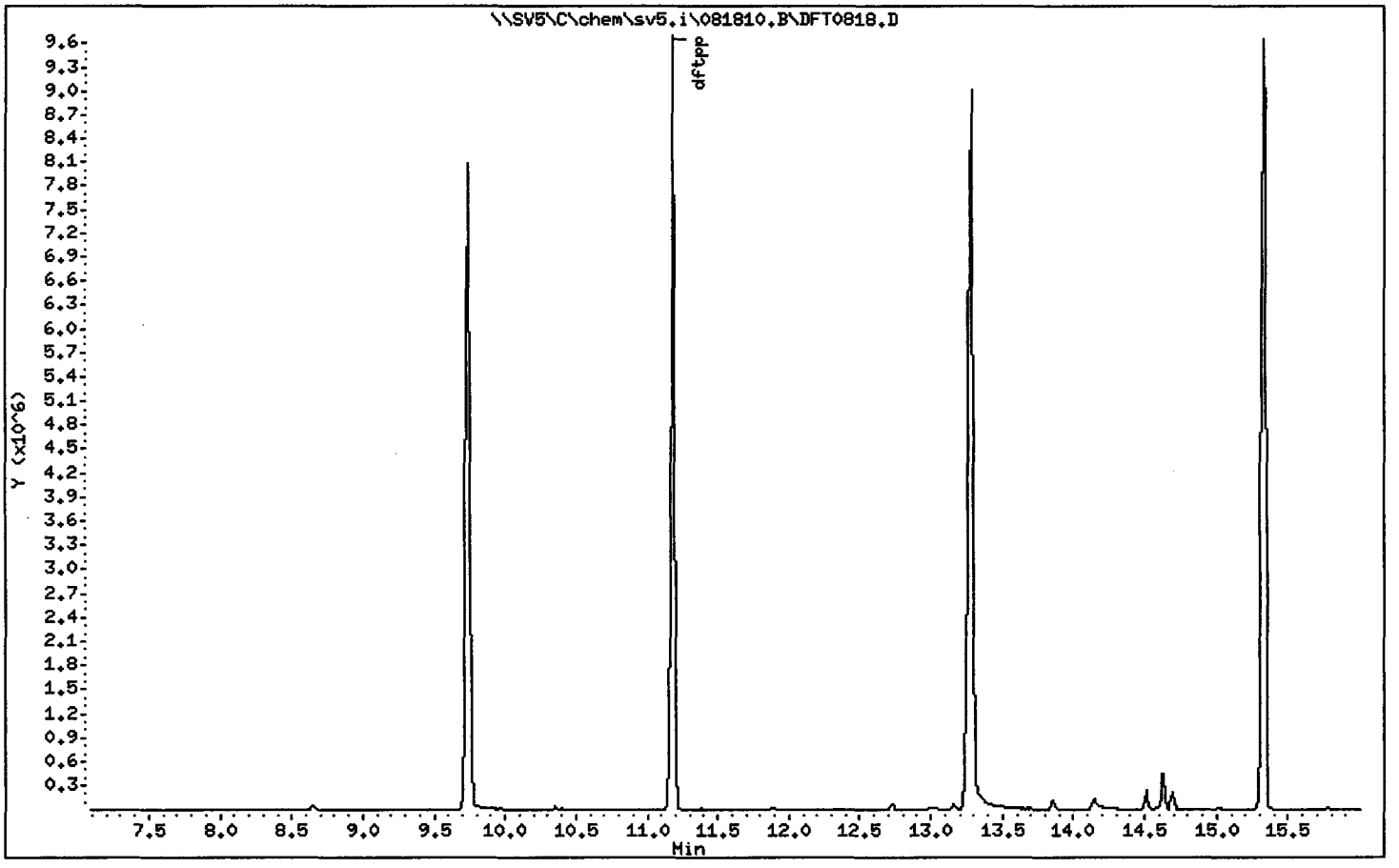
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\081810.B\DFT0818.D

Date : 18-AUG-2010 11:36

Client ID:

Instrument: sv5.i

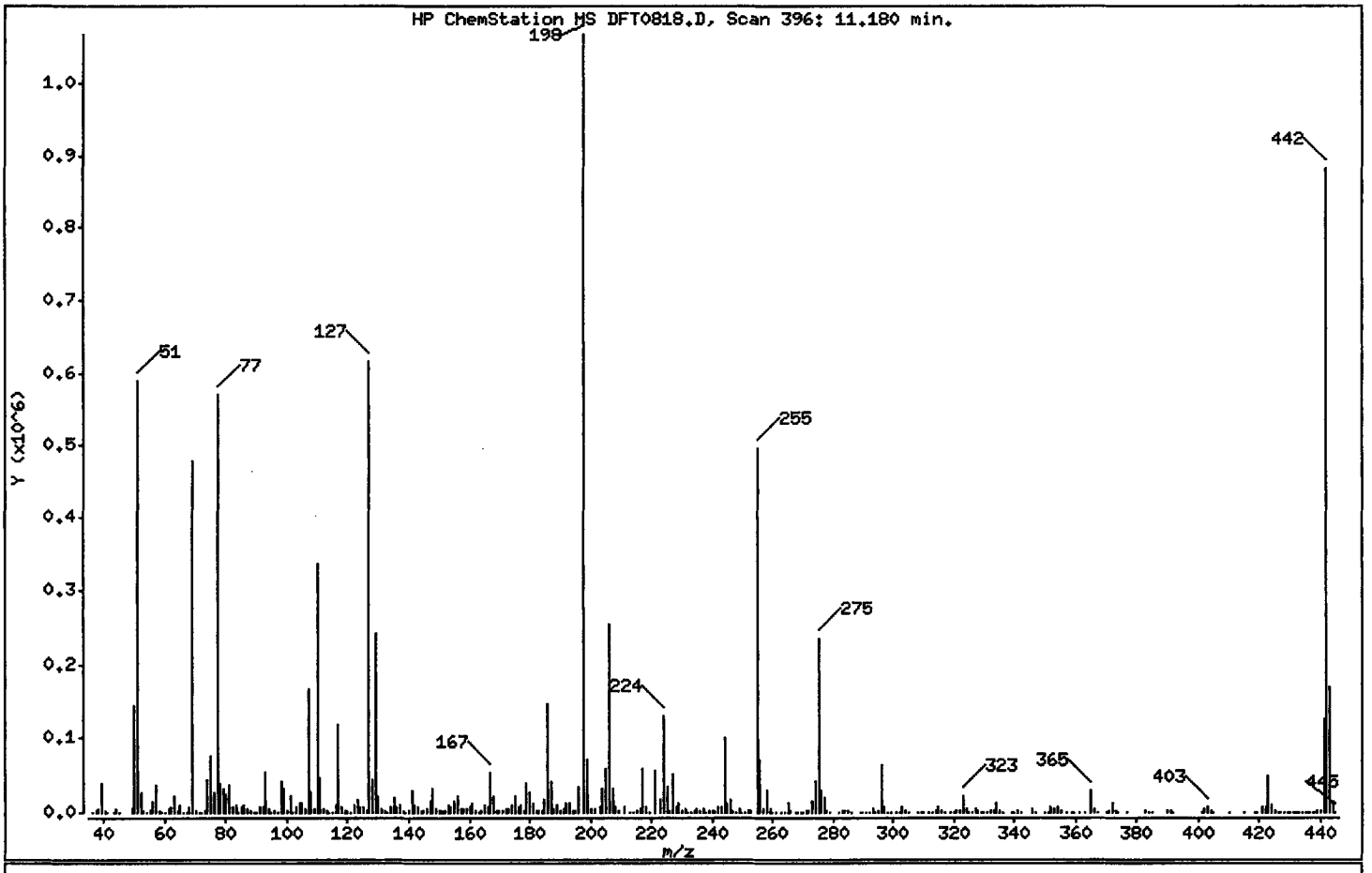
Sample Info: DFTPP 50ug/ml;

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	55.23
68	Less than 2.00% of mass 69	0.69 (1.53)
69	Mass 69 relative abundance	44.93
70	Less than 2.00% of mass 69	0.20 (0.46)
127	25.00 - 75.00% of mass 198	57.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.57
275	10.00 - 30.00% of mass 198	21.93
365	Greater than 0.75% of mass 198	2.77
441	Present, but less than mass 443	11.69
442	40.00 - 110.00% of mass 198	82.43
443	15.00 - 24.00% of mass 442	15.85 (19.23)

Date : 18-AUG-2010 11:36

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase: Column diameter: 2.00

Data File: DFT0818.D
Spectrum: HP ChemStation MS DFT0818.D, Scan 396: 11.180 min.
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	517	128.10	43816	219.10	937	320.10	546
37.10	1892	129.00	239936	221.10	57376	321.00	2560
38.10	5529	130.00	21680	223.00	16114	322.00	1279
39.10	38568	131.10	3914	224.10	130224	323.10	21272
40.10	2280	132.10	2247	225.10	34680	324.10	3871
41.00	1085	132.90	791	226.10	3503	325.00	349
43.10	383	134.00	7107	227.00	52600	326.10	442
44.10	3982	135.00	18576	228.10	7295	327.00	3953
45.10	858	136.00	7512	229.00	11771	328.00	1907
49.20	4217	137.10	8712	230.00	1736	329.00	499
50.10	144896	138.00	1943	231.10	4226	329.90	208
51.10	590144	139.00	1104	232.10	753	330.90	274
52.10	27784	140.10	3038	233.10	1046	332.00	1383
53.10	1301	141.00	28352	234.00	2489	333.00	1527
54.30	237	142.00	9824	235.00	3862	334.10	12764
55.10	2718	143.00	6831	236.00	2266	335.00	3672
56.00	15147	144.00	1976	237.10	4669	336.00	491
57.00	37248	145.00	1502	238.00	669	339.10	237
58.10	1937	146.10	4569	239.00	1956	340.00	571
59.00	617	147.00	14057	240.00	1500	341.10	3381
60.00	371	148.00	31184	241.00	3083	342.10	845
61.00	5476	149.00	6050	242.10	6272	346.00	3760
62.00	6506	150.10	1994	243.10	7927	347.00	1038
63.00	21352	151.00	2921	244.10	100344	350.00	252
64.10	2603	151.60	2252	245.10	12706	351.20	391
65.10	10668	152.10	2141	246.00	18360	352.00	6348
66.00	692	153.00	8915	247.00	3671	353.10	4553
67.10	616	154.00	6596	248.00	1075	354.10	7352
68.10	7346	155.00	14688	249.00	3850	355.10	1530
69.00	480064	156.10	22160	250.00	579	357.00	220
70.00	2190	157.10	5550	251.00	1052	359.10	535
71.10	416	158.00	5655	252.00	1671	359.80	217
71.90	257	159.00	4009	253.00	2951	361.00	275
73.10	3108	160.00	8380	255.00	497216	363.00	329
74.00	44424	161.00	13072	256.00	72440	365.00	29576

Date : 18-AUG-2010 11:36

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: srs

Column phase: Column diameter: 2.00

Data File: DFT0818.D
Spectrum: HP ChemStation MS DFT0818.D, Scan 396: 11.180 min.
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	76256	162.10	3421	257.10	5792	366.00	3866
76.10	26936	163.10	790	258.00	29896	367.10	253
77.10	570432	164.10	1753	259.00	4093	370.00	786
78.10	38864	165.00	10019	260.00	844	371.10	1989
79.00	31304	166.00	8135	261.10	967	372.00	11961
80.00	24528	167.00	54456	263.10	379	373.10	3278
81.00	37264	168.00	22280	264.10	655	374.00	776
82.00	8432	169.10	3512	265.00	12420	377.10	316
83.10	9694	170.00	1617	266.10	1790	383.00	3199
84.00	1099	171.00	2526	267.50	200	384.00	959
85.00	6385	172.00	4751	268.00	252	384.90	247
86.00	9375	173.00	6011	269.20	364	390.10	1690
87.00	4015	174.00	10742	270.00	617	391.10	1403
88.00	1537	175.10	21512	271.00	1363	391.90	704
89.10	900	176.10	6625	272.00	1925	401.00	734
90.00	248	177.10	9122	273.10	15138	402.00	5298
91.00	8173	177.90	2865	274.10	40720	403.00	7518
92.00	7829	179.00	39368	275.10	234368	404.00	2770
93.00	53664	180.10	27680	276.10	29864	405.10	527
94.00	4677	181.00	11524	277.00	19440	410.10	353
94.90	778	182.10	2199	278.00	3016	415.00	302
96.10	2612	183.10	1694	279.00	1035	418.40	227
97.00	855	184.00	3399	282.00	381	419.10	280
98.00	42472	185.00	17400	283.00	1957	421.00	6314
99.00	33048	186.10	147520	284.00	1616	422.10	6297
100.00	2747	187.00	41144	285.10	3639	423.00	48784
101.00	21344	188.00	4025	286.10	622	424.00	9748
102.10	1220	189.00	9752	289.00	1061	425.10	1293
103.00	6383	190.00	1481	290.00	950	426.20	451
104.00	11718	191.00	4073	291.00	709	426.90	238
105.00	12591	192.00	11094	292.10	673	428.30	656
106.10	4055	193.10	13180	293.00	4937	429.20	463
107.00	168064	194.10	3014	294.10	852	429.90	588
108.00	27088	194.90	2110	295.10	1664	430.90	469
109.10	4576	196.00	34896	296.00	63584	431.60	315

Date : 18-AUG-2010 11:36

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT0818.D
Spectrum: HP ChemStation MS DFT0818.D, Scan 396: 11.180 min.
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	335680	198.00	1068544	297.00	8436	432.20	549
111.00	46336	199.00	70192	298.00	656	432.60	480
112.10	5305	200.00	5632	299.20	239	433.80	717
113.10	1485	201.50	4736	301.10	969	434.10	702
114.00	487	203.00	6712	302.00	1152	435.00	679
114.80	912	204.10	31344	303.10	7488	435.70	943
116.00	9262	205.10	57792	304.10	2157	436.70	1065
117.00	116864	206.10	252032	305.10	393	437.90	1077
118.00	8106	207.10	32632	308.10	1134	438.20	1104
119.00	1402	208.00	7477	309.10	452	439.00	1430
120.00	2273	209.00	2538	310.00	1092	439.90	1286
120.90	522	211.10	8382	311.80	261	441.10	124888
122.00	9273	213.00	756	313.10	538	442.00	880832
123.00	18200	214.00	378	314.00	2954	443.00	169344
124.00	7473	215.00	2473	315.00	7706	444.10	15833
125.00	7541	216.10	4518	316.00	3399	445.00	1193
126.10	3385	217.00	59304	317.00	915		
127.00	616704	218.00	7523	319.10	225		

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081804.D
Lab Smp Id: L5LC51AA G0H140000- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 15:09
Operator : KT Inst ID: sv5.i
Smp Info : L5LC51AA G0H140000-077B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	106305	40.0000		(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	473914	40.0000		
* 3	Acenaphthene-d10	164	7.785	7.795	(1.000)	247557	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	383451	40.0000		
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	360352	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	336330	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	234227	60.0018	60.00	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	343220	68.3822	68.38	
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	89078	33.9471	33.95	
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	125420	30.4084	30.41	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	279899	35.7569	35.76	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	91971	104.298	104.3	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	332930	47.2379	47.24	
108	Hexachlorobenzene	284	Compound Not Detected.						

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

8/19/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S081804.D
Lab Smp Id: L5LC51AA G0H140000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Client Smp ID: 0226077
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	106305	-15.83
2 Naphthalene-d8	544958	272479	1089916	473914	-13.04
3 Acenaphthene-d10	283970	141985	567940	247557	-12.82
4 Phenanthrene-d10	451801	225901	903602	383451	-15.13
5 Chrysene-d12	438936	219468	877872	360352	-17.90
6 Perylene-d12	413868	206934	827736	336330	-18.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	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.

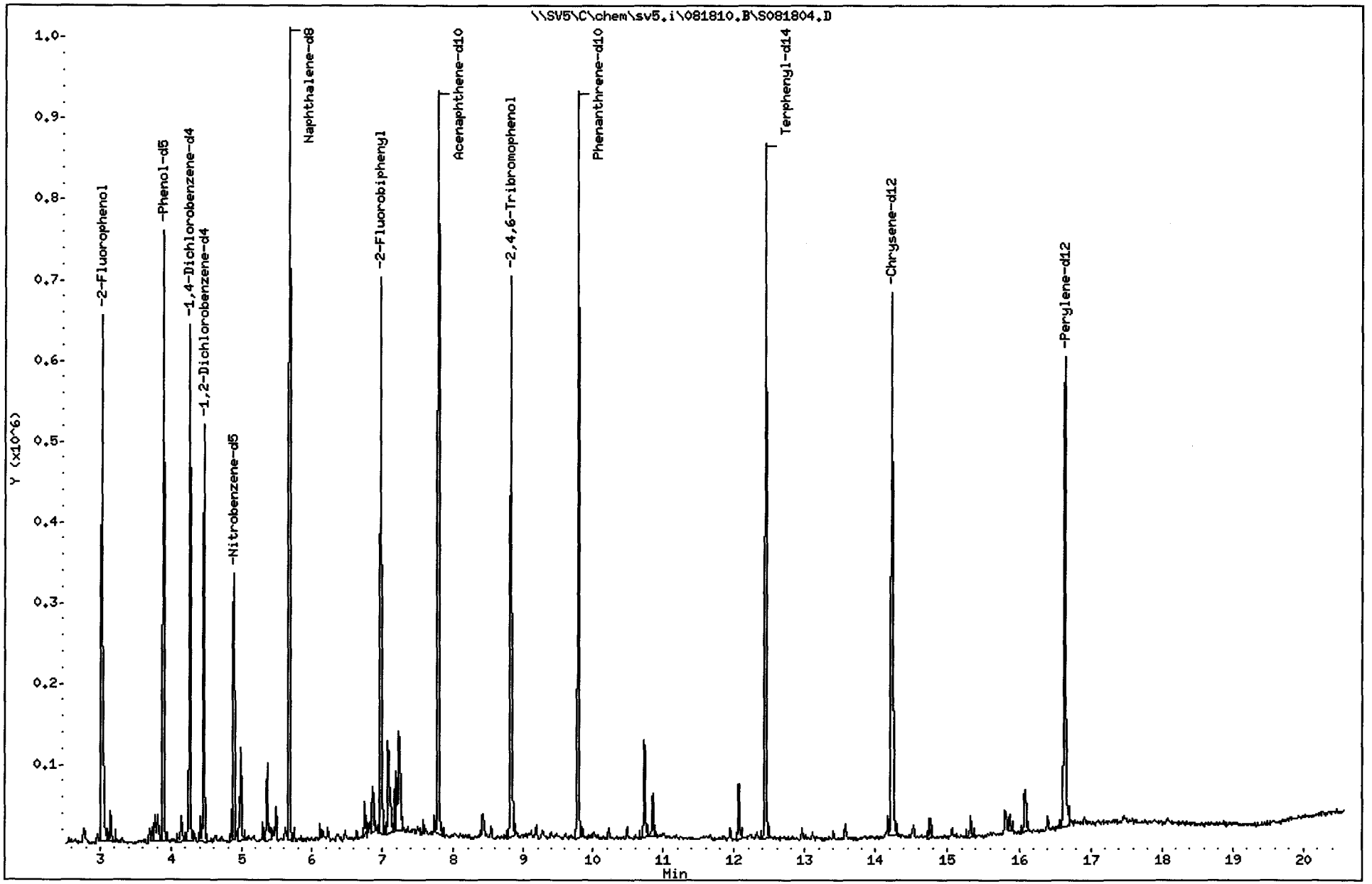
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L5LC51AA G0H140000- Client Smp ID: 0226077
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	60.00	60.00	41-105
$ 8 Phenol-d5	100.0	68.38	68.38	43-122
$ 10 1,2-Dichlorobenzen	50.00	33.95	67.89	60-120
$ 11 Nitrobenzene-d5	50.00	30.41	60.82	46-118
$ 12 2-Fluorobiphenyl	50.00	35.76	71.51	58-105
$ 13 2,4,6-Tribromophen	100.0	104.3	104.30	61-118
$ 14 Terphenyl-d14	50.00	47.24	94.48	69-110

Data File: \\SV5\C\chem\sv5.i\081810.B\S081804.D
Date : 18-AUG-2010 15:09
Client ID: 0226077
Instrument: sv5.i
Sample Info: L5LC51AA G0H140000-077B;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081805.D
Lab Smp Id: L5LC51AC G0H140000-
Inj Date : 18-AUG-2010 15:35
Operator : KT Inst ID: sv5.i
Smp Info : L5LC51AC G0H140000-077C;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\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 40 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	116019	40.0000		(q)
* 2	Naphthalene-d8	136	5.670	5.671	(1.000)	518848	40.0000		
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	283360	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	450840	40.0000		
* 5	Chrysene-d12	240	14.230	14.231	(1.000)	461787	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	430689	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	327163	76.7920	76.79	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	459710	83.9226	83.92	
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	192159	42.5547	42.55	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	397575	44.3725	44.37	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	110303	109.282	109.3	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	399466	44.2285	44.23	
108	Hexachlorobenzene	284	9.349	9.350	(0.956)	214791	92.0377	92.04	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

8/19/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S081805.D
Lab Smp Id: L5LC51AC G0H140000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	116019	-8.14
2 Naphthalene-d8	544958	272479	1089916	518848	-4.79
3 Acenaphthene-d10	283970	141985	567940	283360	-0.21
4 Phenanthrene-d10	451801	225901	903602	450840	-0.21
5 Chrysene-d12	438936	219468	877872	461787	5.21
6 Perylene-d12	413868	206934	827736	430689	4.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	-0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-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: L5LC51AC G0H140000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCS
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.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	92.04	92.04	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	76.79	76.79	41-105
$ 8 Phenol-d5	100.0	83.92	83.92	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	42.55	85.11	46-118
$ 12 2-Fluorobiphenyl	50.00	44.37	88.74	58-105
$ 13 2,4,6-Tribromophen	100.0	109.3	109.28	61-118
$ 14 Terphenyl-d14	50.00	44.23	88.46	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081805.D
Lab Smp Id: L5LC51AC G0H140000-
Inj Date : 18-AUG-2010 15:35
Operator : KT Inst ID: sv5.i
Smp Info : L5LC51AC G0H140000-077C;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\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 40 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

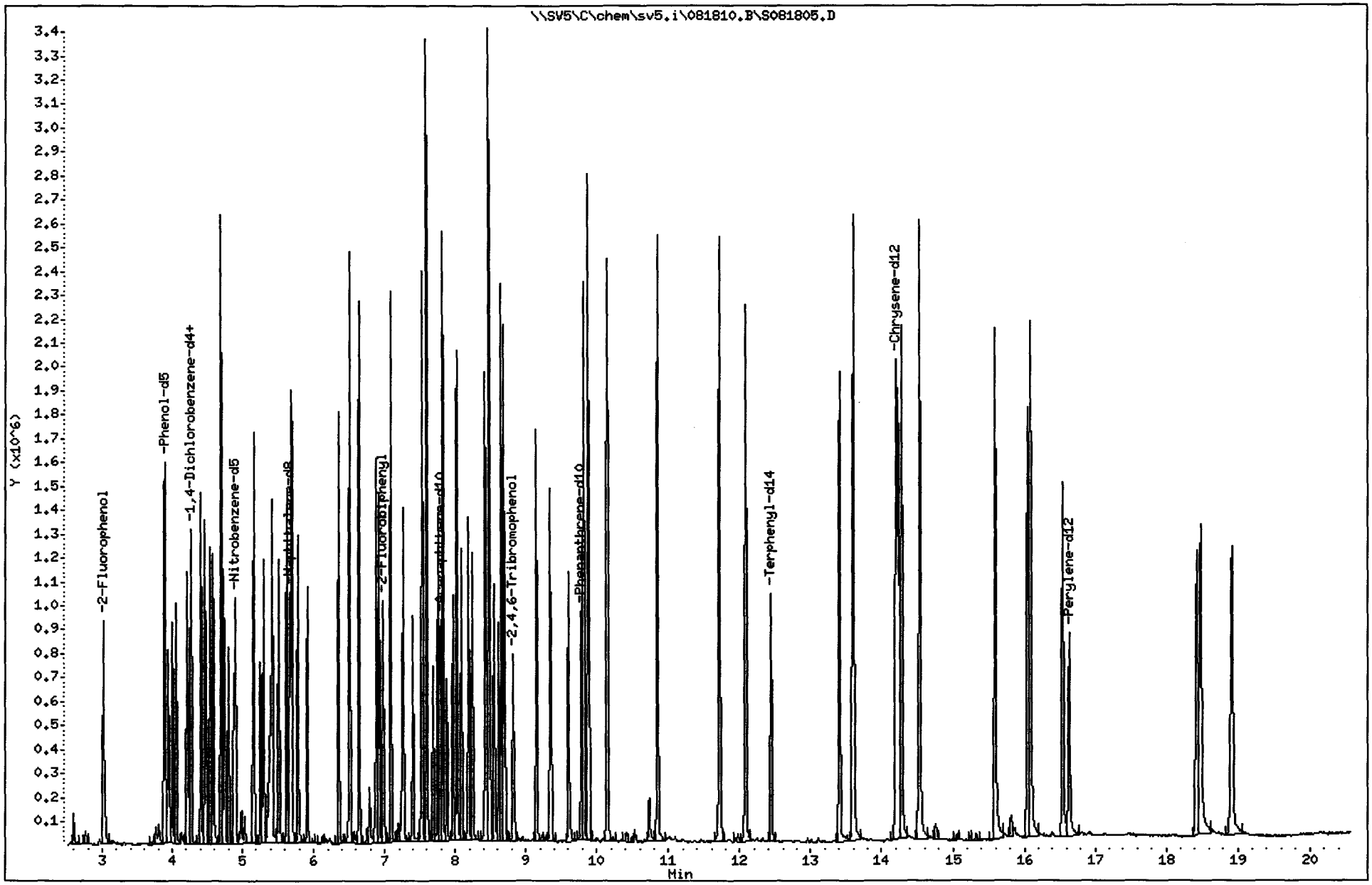
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	116019	40.0000	(q)
* 2	Naphthalene-d8	136	5.670	5.671	(1.000)	518848	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	283360	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	450840	40.0000	
* 5	Chrysene-d12	240	14.230	14.231	(1.000)	461787	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	430689	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	327163	76.7920	76.79
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	459710	83.9226	83.92
$ 10	1,2-Dichlorobenzene-d4	152	4.251	4.458	(1.000)	116019	40.5122	40.51(q)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	192159	42.5547	42.55
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	397575	44.3725	44.37
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	110303	109.282	109.3
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	399466	44.2285	44.23
108	Hexachlorobenzene	284	9.349	9.350	(0.956)	214791	92.0377	92.04

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

Data File: \\SV5\C\chem\sv5.i\081810.B\S081805.D
Date : 18-AUG-2010 15:35
Client ID:
Instrument: sv5.i
Sample Info: L5LC51AC G0H140000-077C;3;LCS;;1000;;1000;2
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



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Date : 18-AUG-2010 15:35

Client ID:

Instrument: sv5.i

Sample Info: L5LC51AC G0H140000-077C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

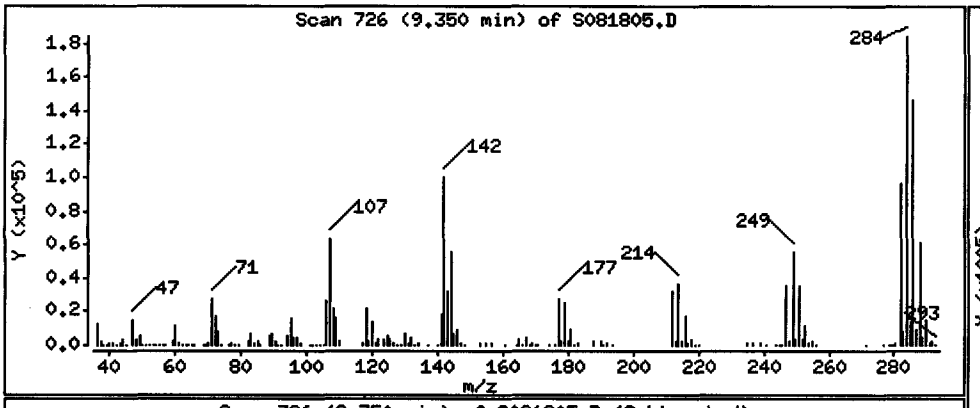
Operator: KT

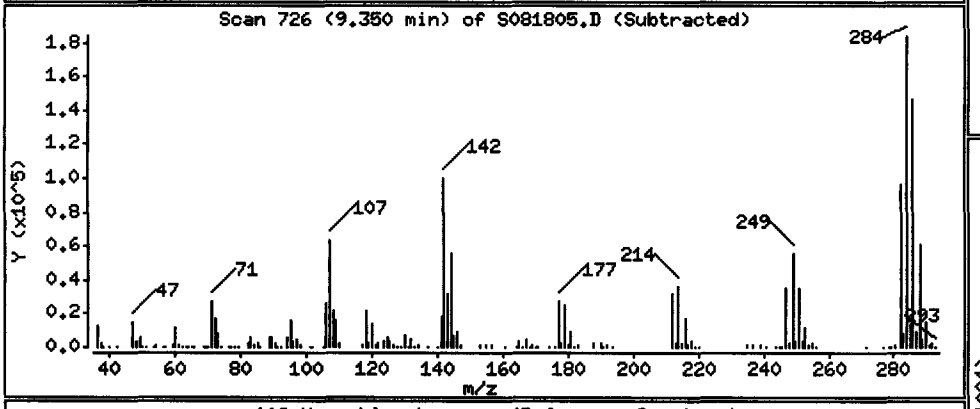
Column phase:

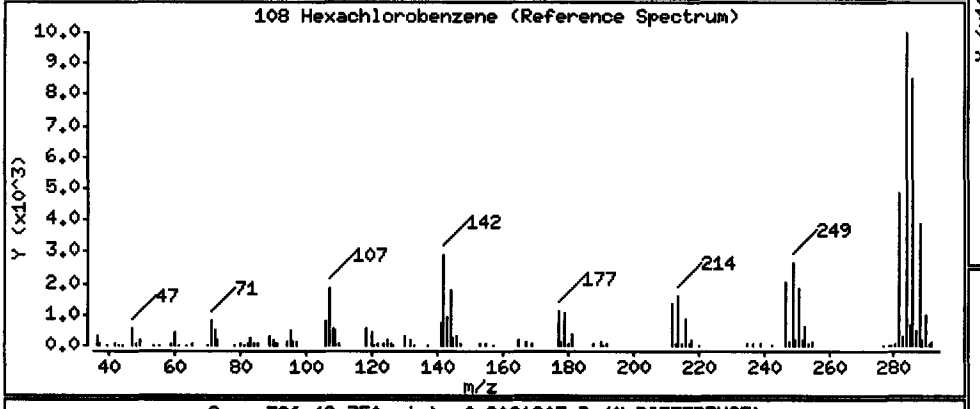
Column diameter: 2.00

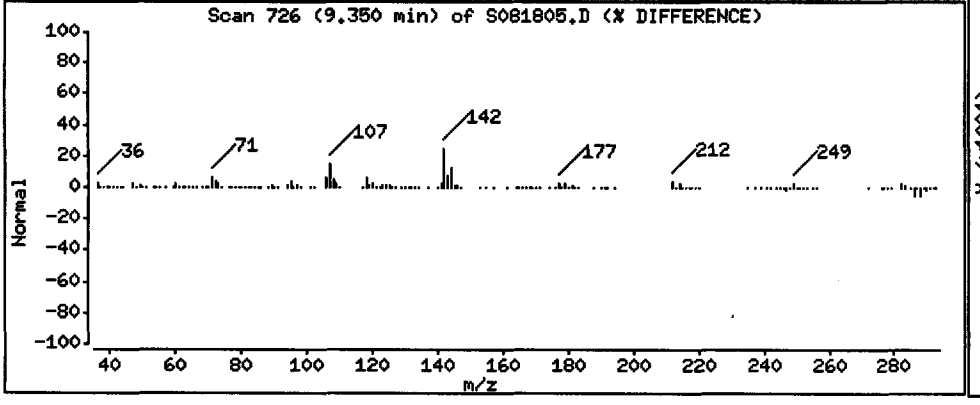
108 Hexachlorobenzene

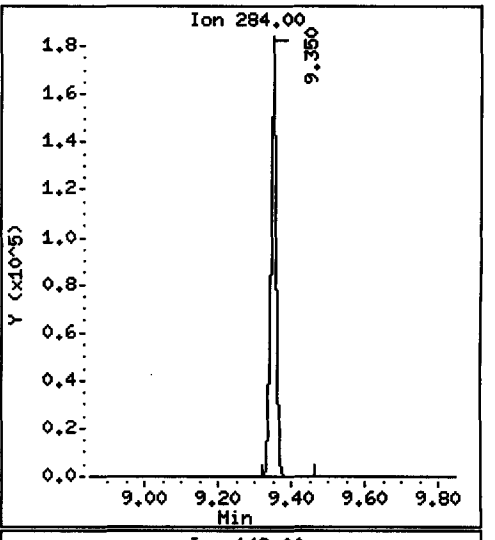
Concentration: 92.04 ug/L

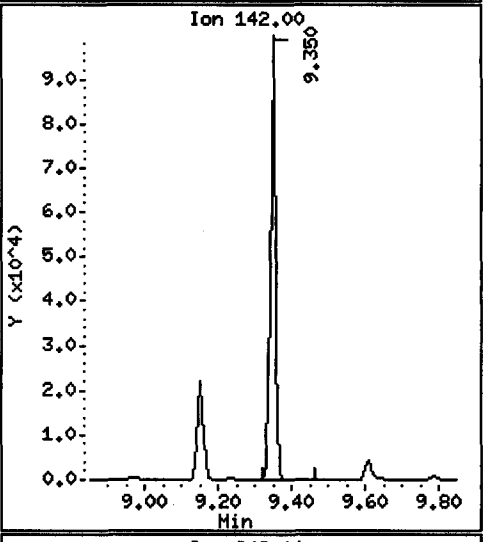


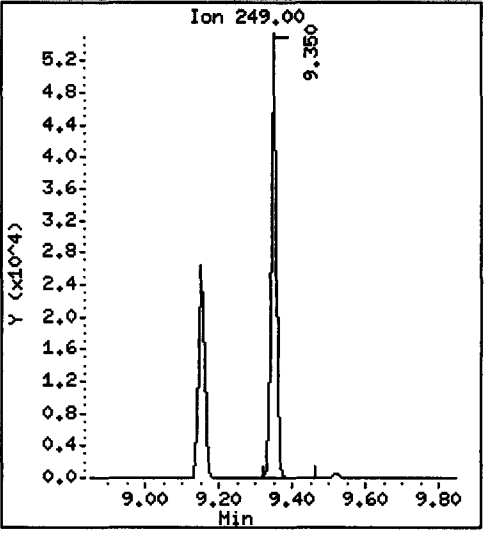












TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081806.D
Lab Smp Id: L5LC51AD G0H140000-
Inj Date : 18-AUG-2010 16:01
Operator : KT Inst ID: sv5.i
Smp Info : L5LC51AD G0H140000-077L;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\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 41 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	160166	40.0000		(q)
* 2 Naphthalene-d8	136	5.671	5.671	(1.000)	748799	40.0000		
* 3 Acenaphthene-d10	164	7.795	7.795	(1.000)	412295	40.0000		
* 4 Phenanthrene-d10	188	9.785	9.785	(1.000)	673828	40.0000		
* 5 Chrysene-d12	240	14.241	14.231	(1.000)	682658	40.0000		
* 6 Perylene-d12	264	16.635	16.635	(1.000)	681036	40.0000		
$ 7 2-Fluorophenol	112	3.018	3.018	(0.710)	452584	76.9502	76.95	
$ 8 Phenol-d5	99	3.888	3.888	(0.915)	672610	88.9441	88.94	
$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	271007	41.5855	41.58	
$ 12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	604702	46.3838	46.38	
$ 13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	166796	113.574	113.6	
$ 14 Terphenyl-d14	244	12.438	12.438	(0.873)	616601	46.1812	46.18	
108 Hexachlorobenzene	284	9.350	9.350	(0.956)	320292	91.8267	91.83	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

8/19/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S081806.D
Lab Smp Id: L5LC51AD G0H140000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	160166	26.81
2 Naphthalene-d8	544958	272479	1089916	748799	37.40
3 Acenaphthene-d10	283970	141985	567940	412295	45.19
4 Phenanthrene-d10	451801	225901	903602	673828	49.14
5 Chrysene-d12	438936	219468	877872	682658	55.53
6 Perylene-d12	413868	206934	827736	681036	64.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.24	0.07
6 Perylene-d12	16.64	16.14	17.14	16.64	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: L5LC51AD G0H140000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCSD
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.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	91.83	91.83	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	76.95	76.95	41-105
$ 8 Phenol-d5	100.0	88.94	88.94	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	41.58	83.17	46-118
$ 12 2-Fluorobiphenyl	50.00	46.38	92.77	58-105
$ 13 2,4,6-Tribromophen	100.0	113.6	113.57	61-118
$ 14 Terphenyl-d14	50.00	46.18	92.36	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081806.D
Lab Smp Id: L5LC51AD G0H140000-
Inj Date : 18-AUG-2010 16:01
Operator : KT Inst ID: sv5.i
Smp Info : L5LC51AD G0H140000-077L;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\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 41 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

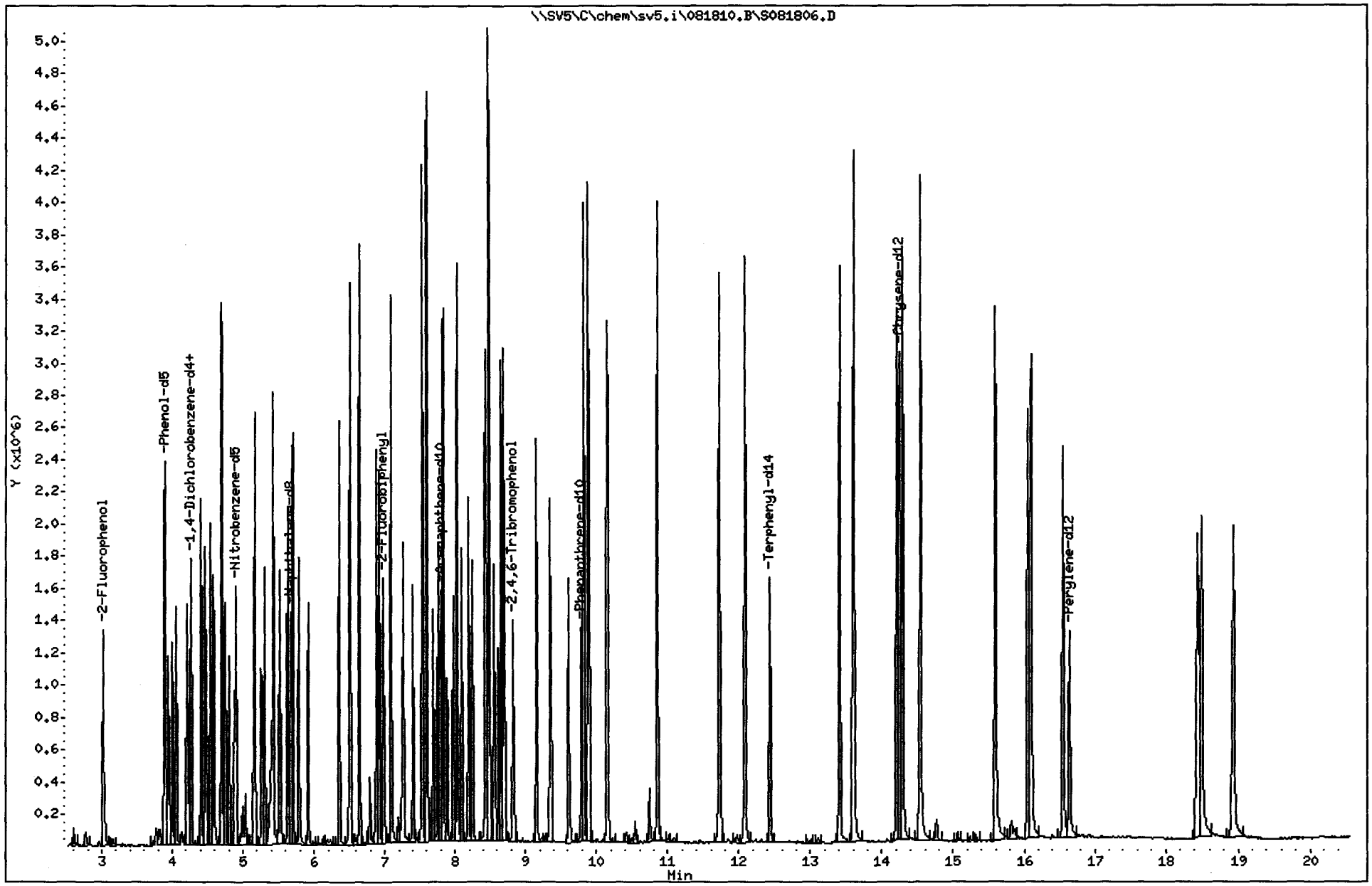
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	160166	40.0000		(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	748799	40.0000		
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	412295	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	673828	40.0000		
* 5	Chrysene-d12	240	14.241	14.231	(1.000)	682658	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	681036	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	452584	76.9502	76.95	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	672610	88.9441	88.94	
$ 10	1,2-Dichlorobenzene-d4	152	4.251	4.458	(1.000)	160166	40.5122	40.51	(q)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	271007	41.5855	41.58	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	604702	46.3838	46.38	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	166796	113.574	113.6	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.873)	616601	46.1812	46.18	
108	Hexachlorobenzene	284	9.350	9.350	(0.956)	320292	91.8267	91.83	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

Data File: \\SV5\C\chem\sv5.i\081810.B\S081806.D
Date : 18-AUG-2010 16:01
Client ID:
Instrument: sv5.i
Sample Info: L5LC51AD G0H140000-077L;3;LCSD;;1000;;1000;2
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\081810.B\S081806.D

Date : 18-AUG-2010 16:01

Client ID:

Instrument: sv5.i

Sample Info: L5LC51AD G0H140000-077L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

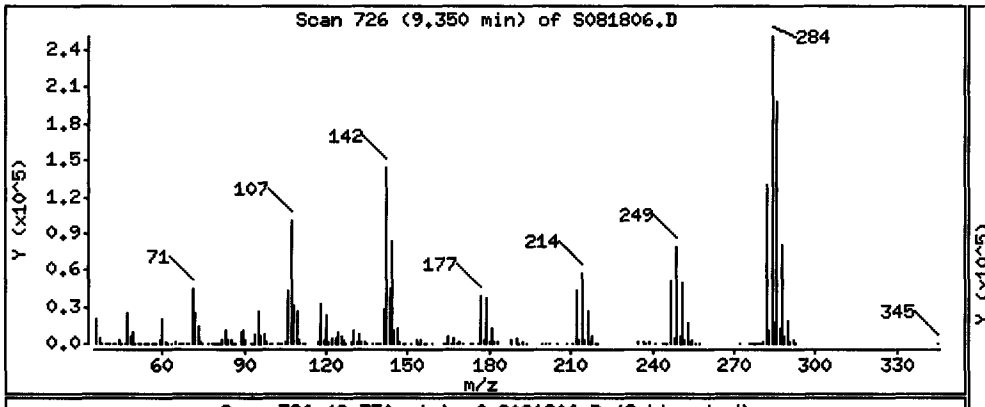
Operator: KT

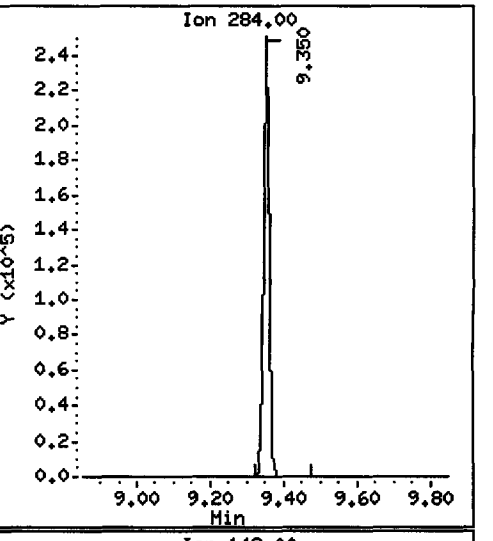
Column phase:

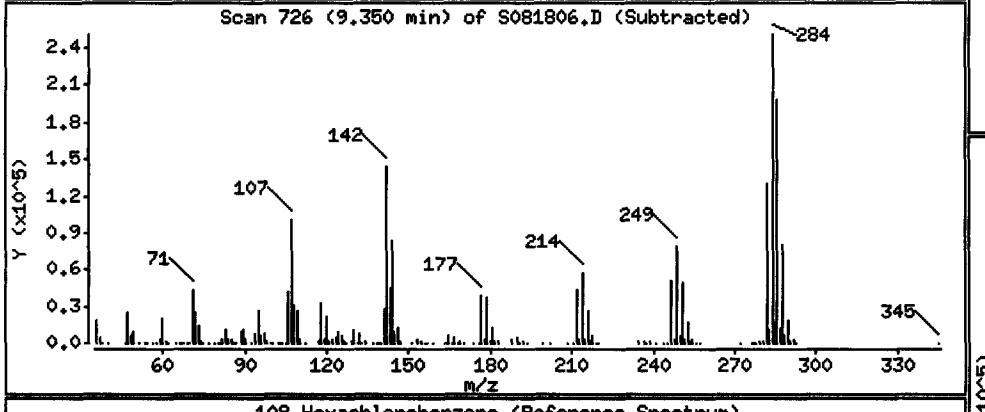
Column diameter: 2.00

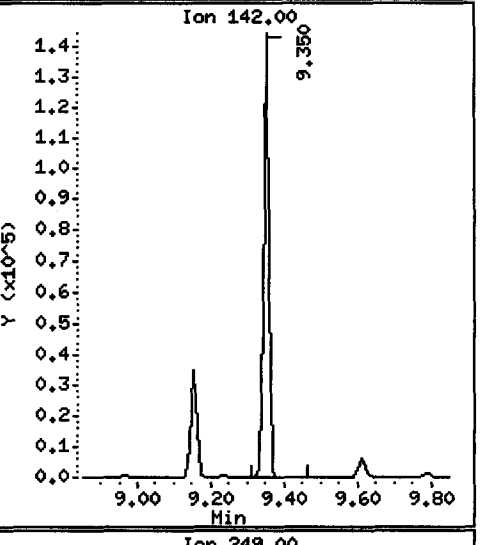
108 Hexachlorobenzene

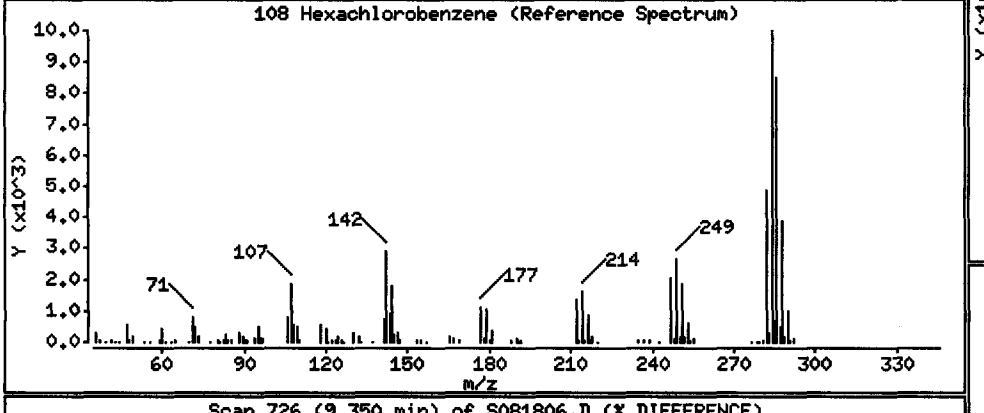
Concentration: 91.83 ug/L

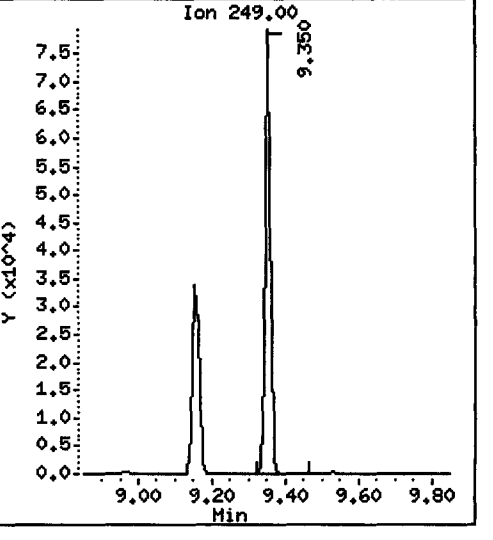


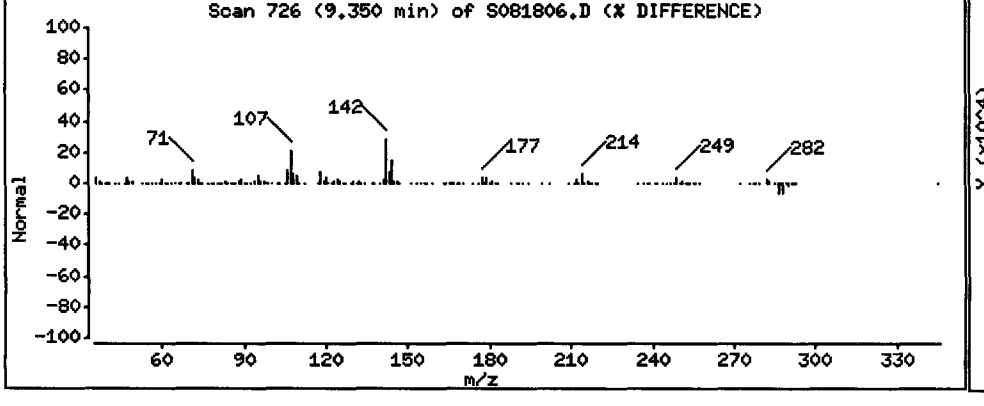












TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081807.D
Lab Smp Id: L5LA21AA G0H140454- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 16:27
Operator : KT Inst ID: sv5.i
Smp Info : L5LA21AA G0H140454-5;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	101122	40.0000		(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	462331	40.0000		
* 3	Acenaphthene-d10	164	7.785	7.795	(1.000)	252291	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	411248	40.0000		
* 5	Chrysene-d12	240	14.230	14.231	(1.000)	403676	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	369548	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	282318	76.0280	76.03	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	428124	89.6702	89.67	
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	38980	15.6164	15.62	(QR)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	159736	39.6987	39.70	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	357793	44.8501	44.85	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	100985	112.371	112.4	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	359786	45.5696	45.57	
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.

VT 8/19/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S081807.D
Lab Smp Id: L5LA21AA G0H140454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Client Smp ID: 0226077
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	101122	-19.94
2 Naphthalene-d8	544958	272479	1089916	462331	-15.16
3 Acenaphthene-d10	283970	141985	567940	252291	-11.16
4 Phenanthrene-d10	451801	225901	903602	411248	-8.98
5 Chrysene-d12	438936	219468	877872	403676	-8.03
6 Perylene-d12	413868	206934	827736	369548	-10.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-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.

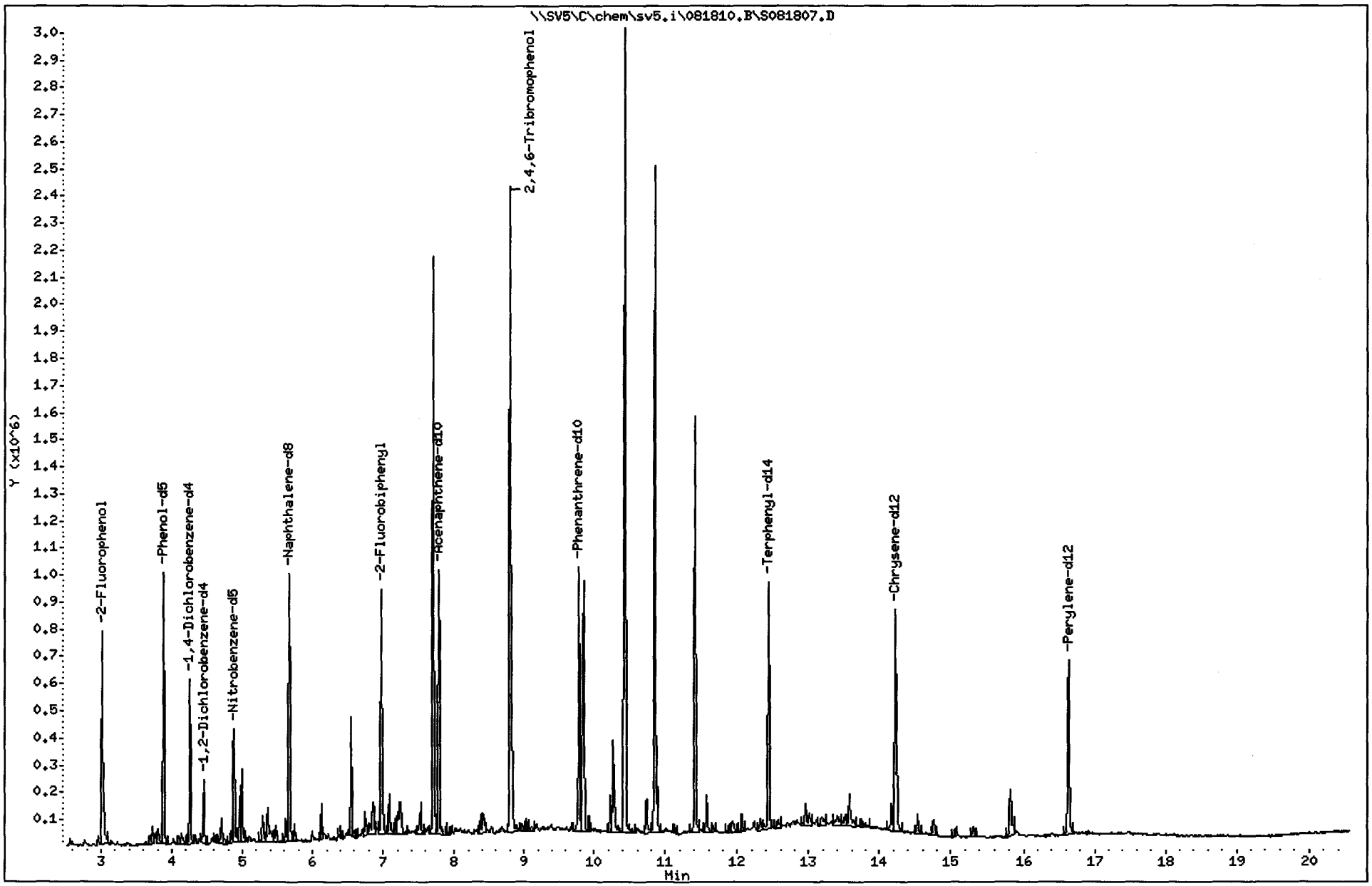
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L5LA21AA G0H140454- Client Smp ID: 0226077
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	76.03	76.03	41-105
$ 8 Phenol-d5	100.0	89.67	89.67	43-122
$ 10 1,2-Dichlorobenzen	50.00	15.62	31.23*	60-120
$ 11 Nitrobenzene-d5	50.00	39.70	79.40	46-118
$ 12 2-Fluorobiphenyl	50.00	44.85	89.70	58-105
$ 13 2,4,6-Tribromophen	100.0	112.4	112.37	61-118
$ 14 Terphenyl-d14	50.00	45.57	91.14	69-110

Data File: \\SV5\C\chem\sv5.i\081810.B\S081807.D
Date : 18-AUG-2010 16:27
Client ID: 0226077
Instrument: sv5.i
Sample Info: L5LA21AA G0H140454-5;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081808.D
Lab Smp Id: L5LA61AA G0H140454- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 16:53
Operator : KT Inst ID: sv5.i
Smp Info : L5LA61AA G0H140454-6;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	139333	40.0000	(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	603981	40.0000	
* 3	Acenaphthene-d10	164	7.785	7.795	(1.000)	336575	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	527508	40.0000	
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	537566	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	490415	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	355905	69.5602	69.56
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	535351	81.3784	81.38
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	50914	14.8037	14.80(qR)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	205727	39.1376	39.14
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	436535	41.0176	41.02
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	130665	108.988	109.0
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	488273	46.4403	46.44
108	Hexachlorobenzene	284	9.350	9.350	(0.956)	1168	0.42775	0.4277(aQ)

QC Flag Legend

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

8/19/10

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: S081808.D
Lab Smp Id: L5LA61AA G0H140454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Client Smp ID: 0226077
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	139333	10.32
2 Naphthalene-d8	544958	272479	1089916	603981	10.83
3 Acenaphthene-d10	283970	141985	567940	336575	18.52
4 Phenanthrene-d10	451801	225901	903602	527508	16.76
5 Chrysene-d12	438936	219468	877872	537566	22.47
6 Perylene-d12	413868	206934	827736	490415	18.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	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.

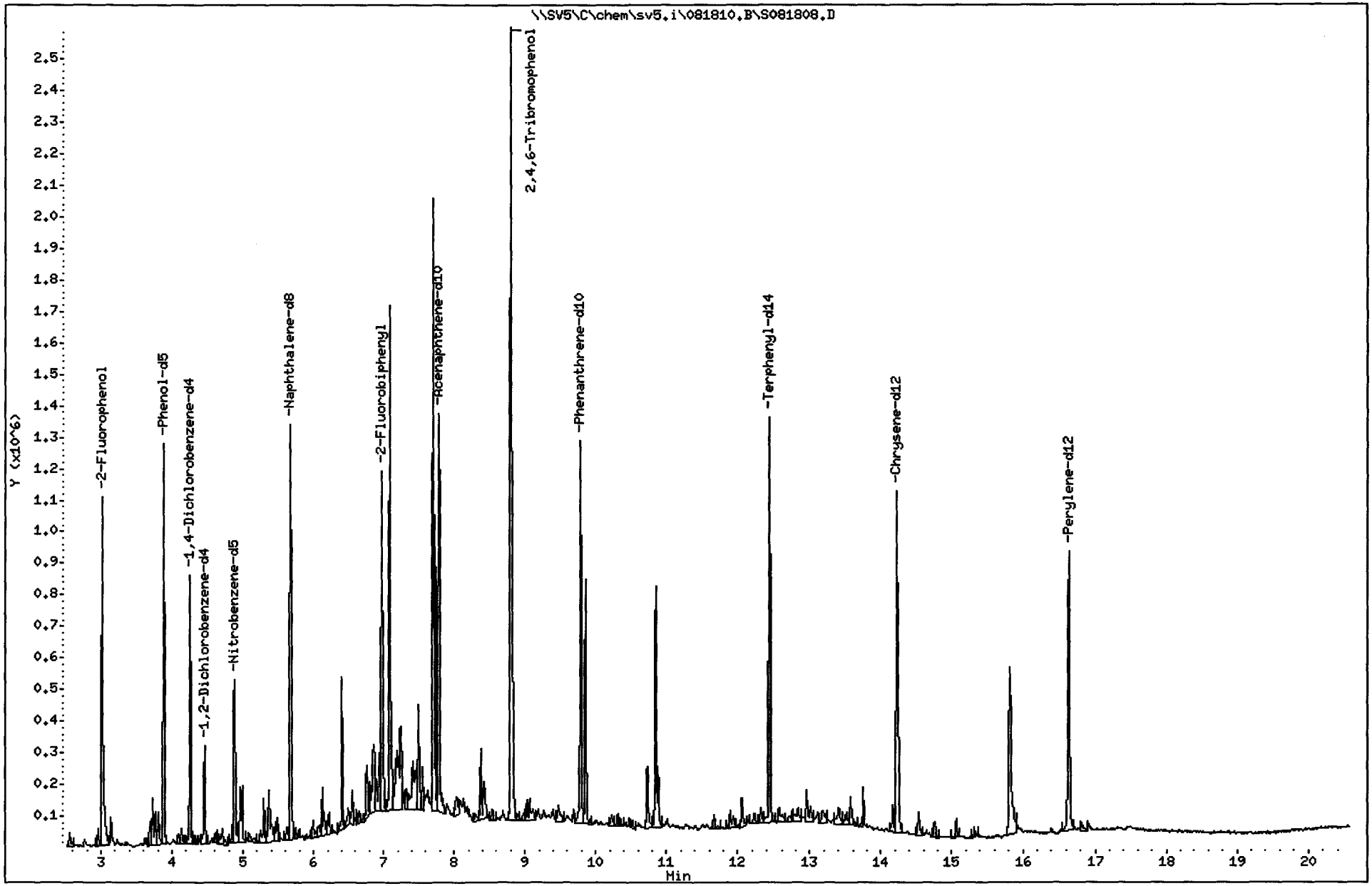
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L5LA61AA G0H140454- Client Smp ID: 0226077
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	69.56	69.56	41-105
$ 8 Phenol-d5	100.0	81.38	81.38	43-122
$ 10 1,2-Dichlorobenzen	50.00	14.80	29.61*	60-120
$ 11 Nitrobenzene-d5	50.00	39.14	78.28	46-118
$ 12 2-Fluorobiphenyl	50.00	41.02	82.04	58-105
$ 13 2,4,6-Tribromophen	100.0	109.0	108.99	61-118
$ 14 Terphenyl-d14	50.00	46.44	92.88	69-110

Data File: \\SV5\C\chem\sv5.i\081810.B\S081808.D
Date : 18-AUG-2010 16:53
Client ID: 0226077
Instrument: sv5.i
Sample Info: L5LA61AA G0H140454-6;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\081810.B\S081808.D

Date : 18-AUG-2010 16:53

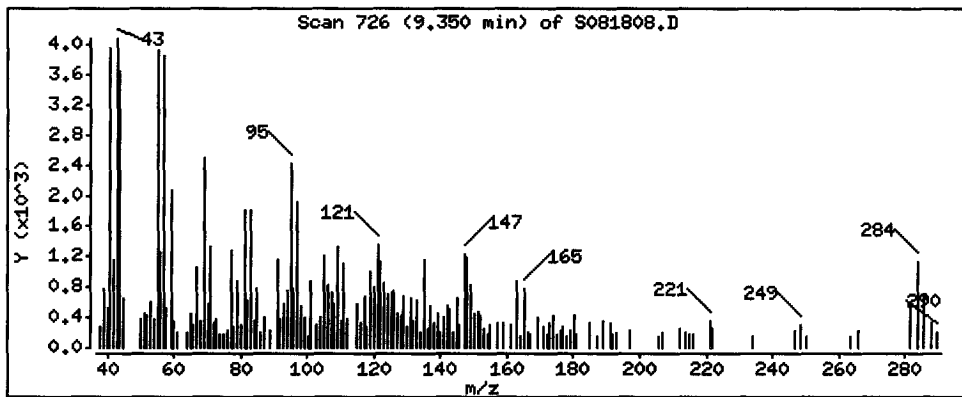
Client ID: 0226077 Instrument: sv5.i

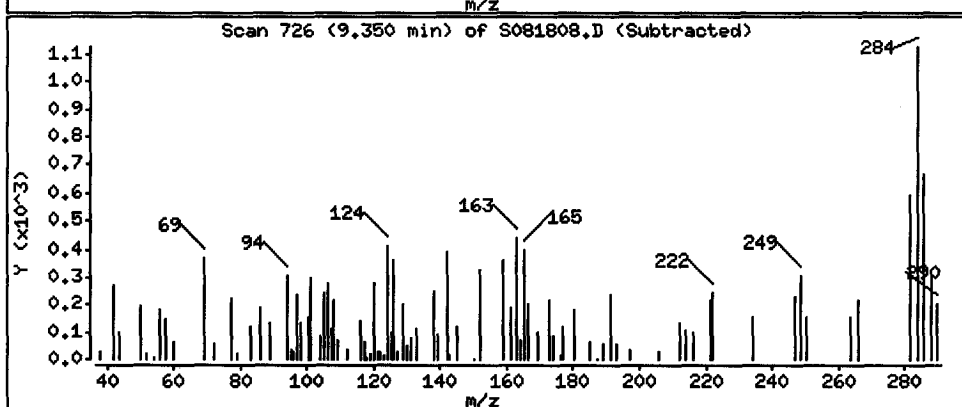
Sample Info: L5LA61AA G0H140454-6;0;;;1000;;1000;5

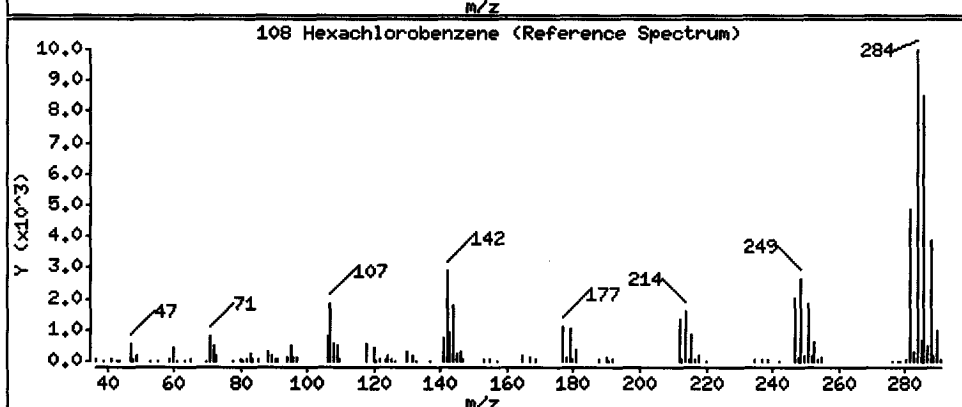
Volume Injected (uL): 1.0 Operator: KT

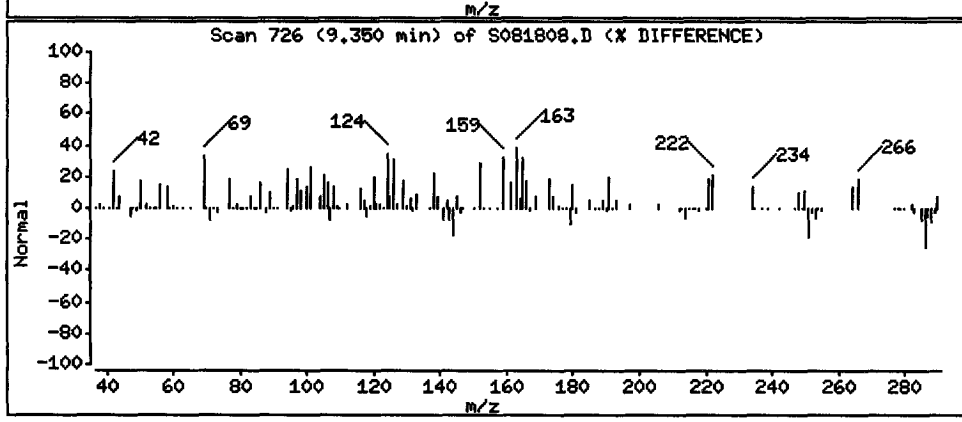
Column phase: Column diameter: 2.00

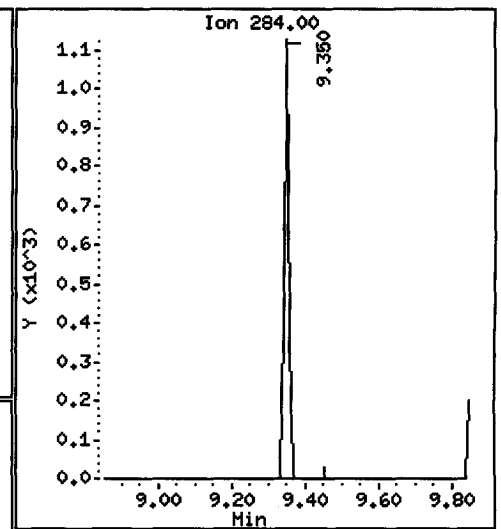
108 Hexachlorobenzene Concentration: 0.4277 ug/L

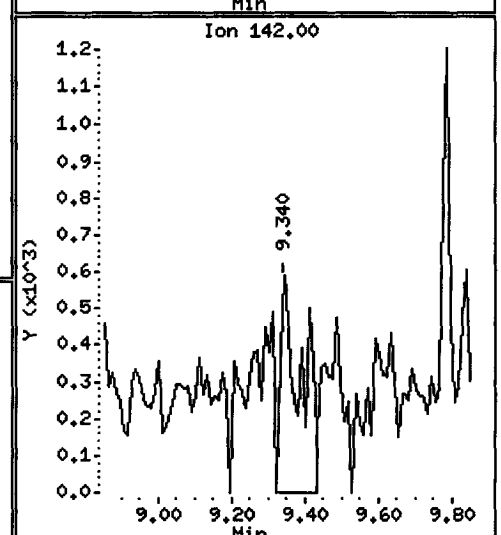


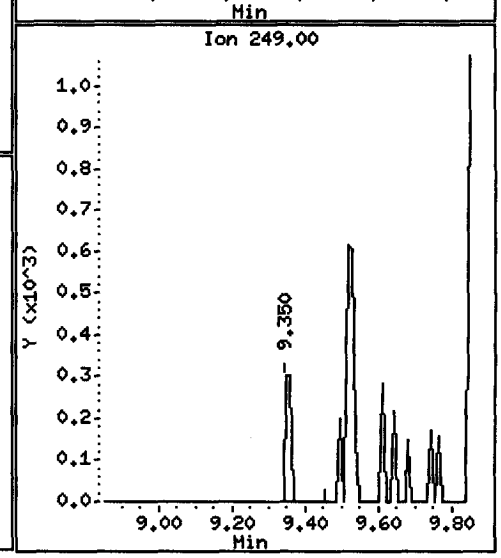












TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081809.D
Lab Smp Id: L5LA81AA G0H140454- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 17:19
Operator : KT Inst ID: sv5.i
Smp Info : L5LA81AA G0H140454-7;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	158376	40.0000		(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	685051	40.0000		
* 3	Acenaphthene-d10	164	7.785	7.795	(1.000)	373438	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	584686	40.0000		
* 5	Chrysene-d12	240	14.230	14.231	(1.000)	570222	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	531321	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	439553	75.5793	75.58	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	668914	89.4551	89.46	
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	75828	19.3966	19.40	(qR)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	245574	41.1895	41.19	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	513186	43.4600	43.46	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	143702	108.030	108.0	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	521647	46.7732	46.77	
108	Hexachlorobenzene	284	Compound Not Detected.						

8/19/10

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: S081809.D
Lab Smp Id: L5LA81AA G0H140454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Client Smp ID: 0226077
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	158376	25.39
2 Naphthalene-d8	544958	272479	1089916	685051	25.71
3 Acenaphthene-d10	283970	141985	567940	373438	31.51
4 Phenanthrene-d10	451801	225901	903602	584686	29.41
5 Chrysene-d12	438936	219468	877872	570222	29.91
6 Perylene-d12	413868	206934	827736	531321	28.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-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.

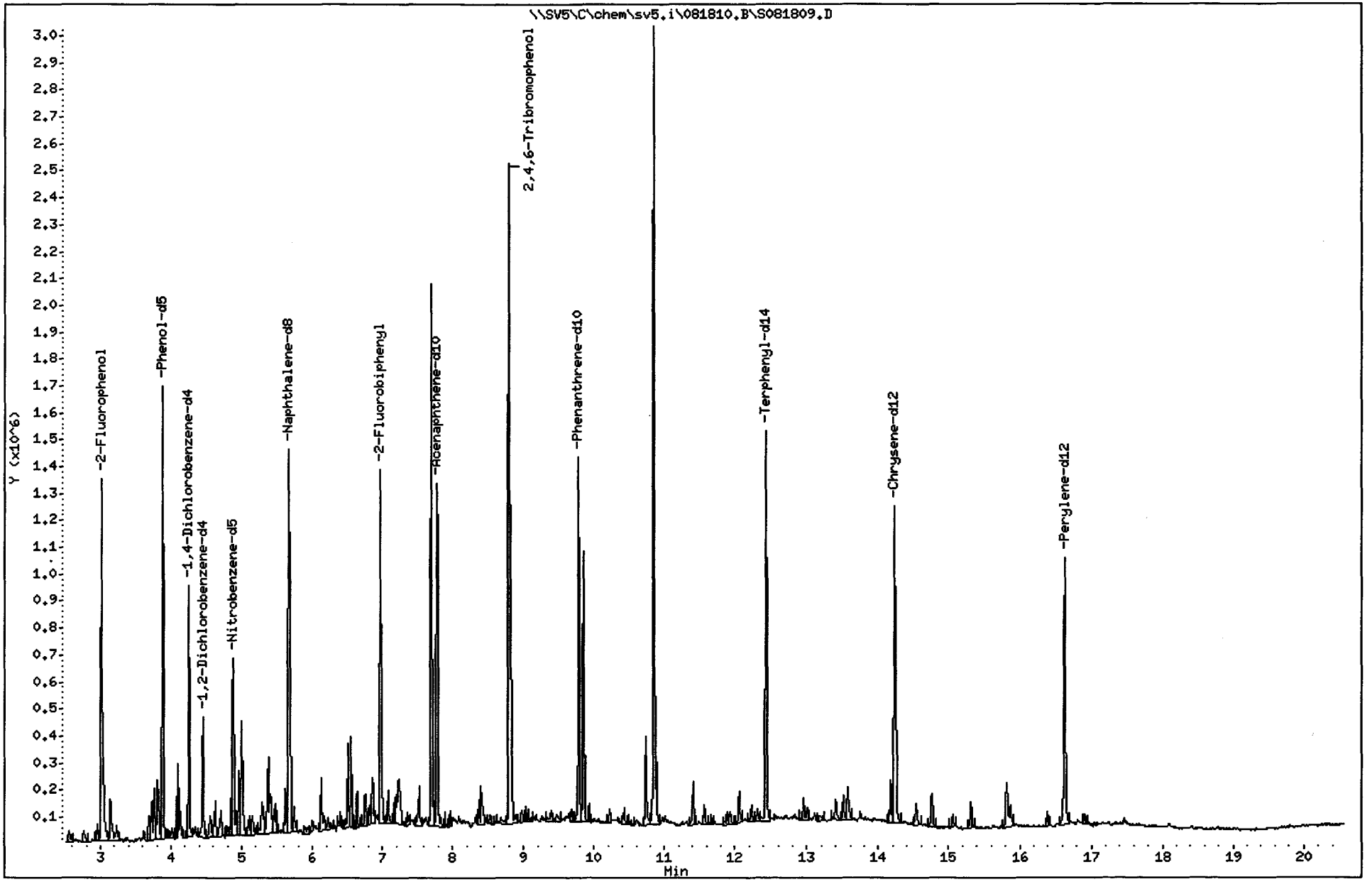
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L5LA81AA G0H140454- Client Smp ID: 0226077
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	75.58	75.58	41-105
$ 8 Phenol-d5	100.0	89.46	89.46	43-122
$ 10 1,2-Dichlorobenzen	50.00	19.40	38.79*	60-120
$ 11 Nitrobenzene-d5	50.00	41.19	82.38	46-118
$ 12 2-Fluorobiphenyl	50.00	43.46	86.92	58-105
$ 13 2,4,6-Tribromophen	100.0	108.0	108.03	61-118
$ 14 Terphenyl-d14	50.00	46.77	93.55	69-110

Data File: \\SV5\C\chem\sv5.i\081810.B\S081809.D
Date : 18-AUG-2010 17:19
Client ID: 0226077
Instrument: sv5.i
Sample Info: L5LA81AA G0H140454-7;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081810.D
Lab Smp Id: L5LCE1AA G0H140454- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 17:45
Operator : KT Inst ID: sv5.i
Smp Info : L5LCE1AA G0H140454-8;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270f.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	122514	40.0000		(q)
* 2 Naphthalene-d8	136	5.670	5.671	(1.000)	541612	40.0000		
* 3 Acenaphthene-d10	164	7.785	7.795	(1.000)	283727	40.0000		
* 4 Phenanthrene-d10	188	9.785	9.785	(1.000)	460601	40.0000		
* 5 Chrysene-d12	240	14.230	14.231	(1.000)	437905	40.0000		
* 6 Perylene-d12	264	16.635	16.635	(1.000)	419181	40.0000		
$ 7 2-Fluorophenol	112	3.018	3.018	(0.710)	325154	72.2744	72.27	
$ 8 Phenol-d5	99	3.888	3.888	(0.915)	497648	86.0322	86.03	
$ 10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	63560	21.0176	21.02	(qRM)
$ 11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	182736	38.7670	38.77	
$ 12 2-Fluorobiphenyl	172	6.987	6.987	(0.898)	393904	43.9059	43.90	
$ 13 2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	115558	114.341	114.3	
$ 14 Terphenyl-d14	244	12.438	12.438	(0.874)	416203	48.5948	48.59	
108 Hexachlorobenzene	284	Compound Not Detected.						

8/19/10

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S081810.D
Lab Smp Id: L5LCE1AA G0H140454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081810.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

Calibration Date: 18-AUG-2010
Calibration Time: 11:56
Client Smp ID: 0226077
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	122514	-3.00
2 Naphthalene-d8	544958	272479	1089916	541612	-0.61
3 Acenaphthene-d10	283970	141985	567940	283727	-0.09
4 Phenanthrene-d10	451801	225901	903602	460601	1.95
5 Chrysene-d12	438936	219468	877872	437905	-0.23
6 Perylene-d12	413868	206934	827736	419181	1.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.14
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-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.

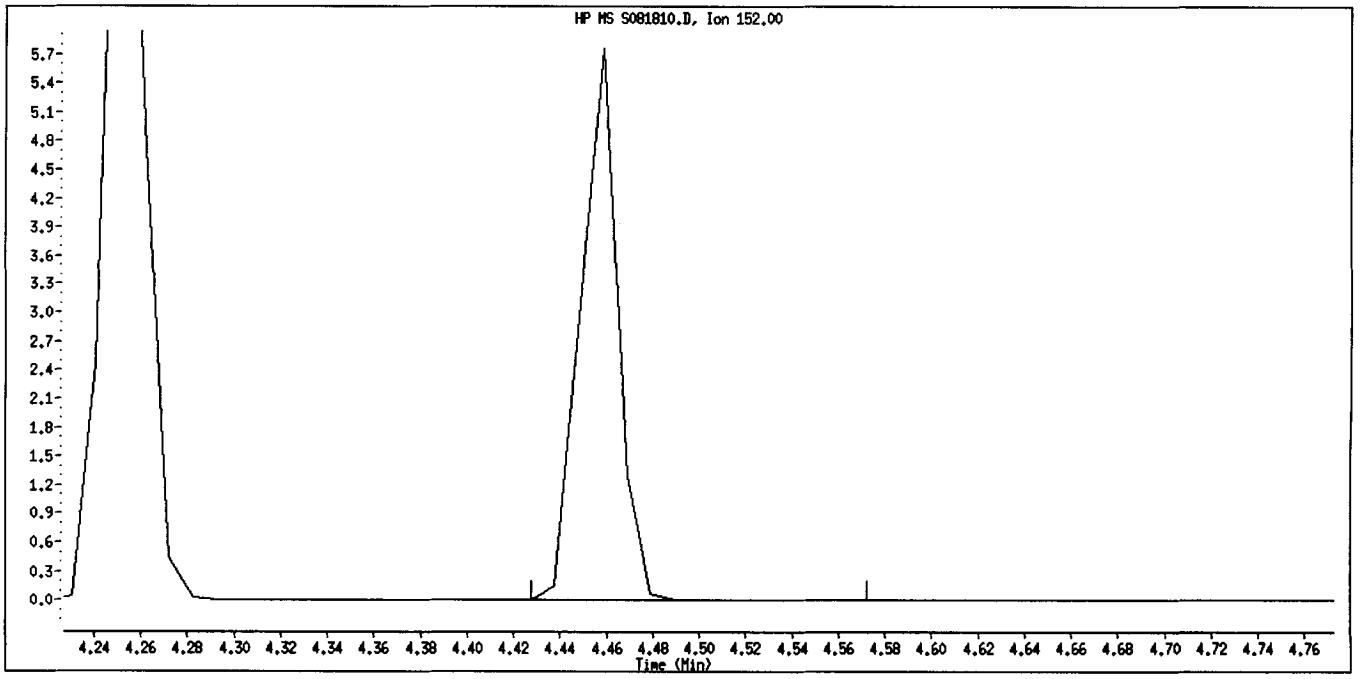
TestAmerica West Sacramento

RECOVERY REPORT

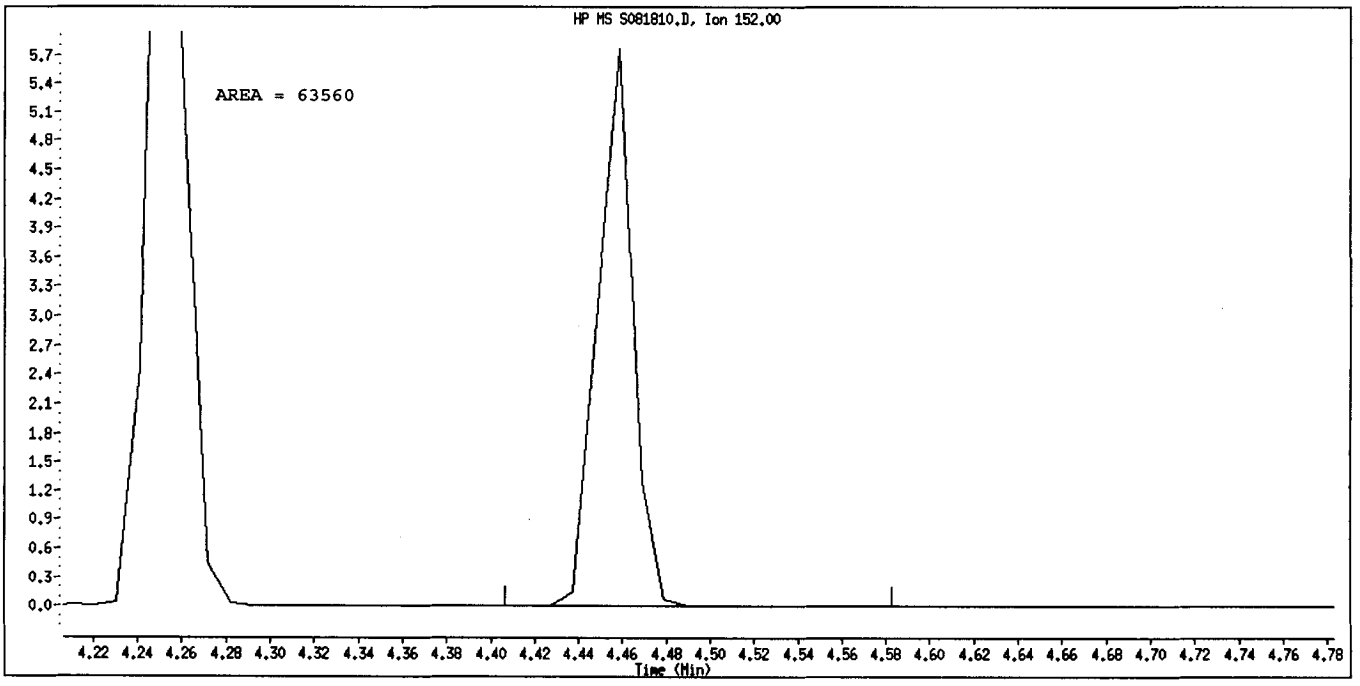
Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: L5LCE1AA G0H140454- Client Smp ID: 0226077
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\081810.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	72.27	72.27	41-105
$ 8 Phenol-d5	100.0	86.03	86.03	43-122
$ 10 1,2-Dichlorobenzen	50.00	21.02	42.04*	60-120
$ 11 Nitrobenzene-d5	50.00	38.77	77.53	46-118
$ 12 2-Fluorobiphenyl	50.00	43.90	87.81	58-105
$ 13 2,4,6-Tribromophen	100.0	114.3	114.34	61-118
$ 14 Terphenyl-d14	50.00	48.59	97.19	69-110

Data File Name: S081810.D
Inj. Date and Time: 18-AUG-2010 17:45
Instrument ID: sv5.i
Client ID: 0226077
Compound Name: 1,2-Dichlorobenzene-d4
CAS #: 2199-69-1
Report Date: 08/19/2010



Original Integration



Manual Integration

Manually Integrated By: ~~semivoa~~ 8/19/10
Manual Integration Reason: Peak Not Found

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081810.B\S081810.D
Lab Smp Id: L5LCE1AA G0H140454- Client Smp ID: 0226077
Inj Date : 18-AUG-2010 17:45
Operator : KT Inst ID: sv5.i
Smp Info : L5LCE1AA G0H140454-8;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0226077;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\081810.B\8270F.m
Meth Date : 19-Aug-2010 20:27 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 45
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

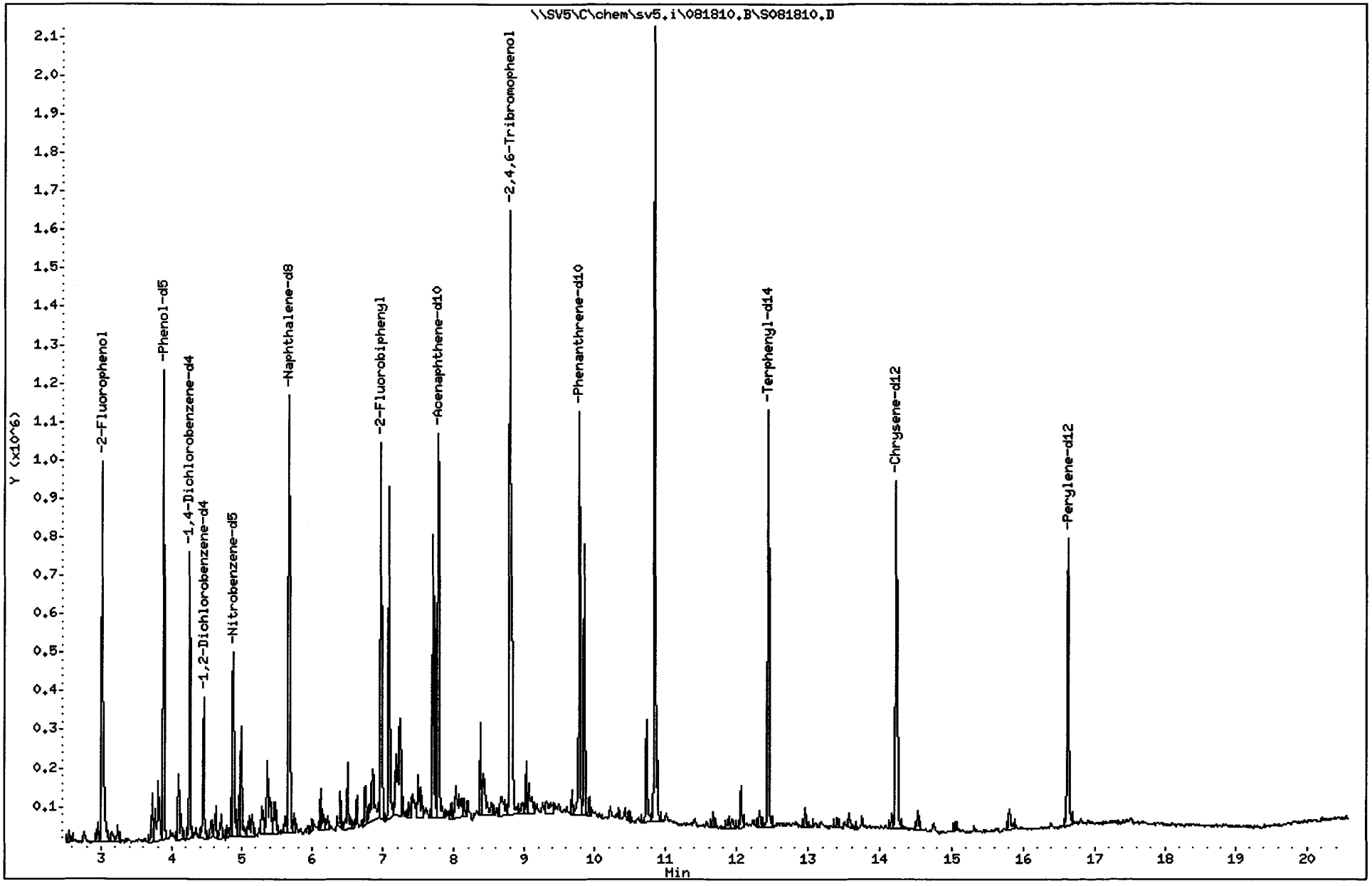
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	122514	40.0000		(q)
* 2	Naphthalene-d8	136	5.670	5.671	(1.000)	541612	40.0000		
* 3	Acenaphthene-d10	164	7.785	7.795	(1.000)	283727	40.0000		
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	460601	40.0000		
* 5	Chrysene-d12	240	14.230	14.231	(1.000)	437905	40.0000		
* 6	Perylene-d12	264	16.635	16.635	(1.000)	419181	40.0000		
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	325154	72.2744	72.27	
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	497648	86.0322	86.03	
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	63562	21.0183	21.02	(qR)
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	182736	38.7670	38.77	
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	393904	43.9059	43.90	
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	115558	114.341	114.3	
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	416203	48.5948	48.59	
108	Hexachlorobenzene	284	Compound Not Detected.						

QC Flag Legend

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

Data File: \\SV5\C\chem\sv5.i\081810.B\S081810.D
Date : 18-AUG-2010 17:45
Client ID: 0226077
Instrument: sv5.i
Sample Info: L5LCE1AA G0H140454-8;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

MS SemiVOA ICAL Checklist Method 8270C

Instrument: SV5

Injection Date: 08/17/10

Initiator/Date: KT-08/18/10

Reviewer/Date: 8/18/10

DFTPP Mix ID: 10MSSV0068

STD Mix IDs: 10MSSV0307-0313

2nd Source Mix ID: 10MSSV0314

NCM _____

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

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

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dichlorophenol	☒	☑	Fluoranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

III: Other Criteria

	Initiated	Reviewed
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: _____

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

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

3'3-Dimethylbenzidine=-26%

N-Nitrosodiphenylamine = ~~-0.~~ -7.52 %D. after converse calibration. OK!

* Converted Diphenylamine in ICAL and N-nitrosodiphenylamine in 2nd source. see attach note !

\\SACP104\BRIGHTSIDE\BRIGHTSIDE\8270KEITH\CURVES\8270 COVER PAGES\HSL\SV5_HSL_ICAL_081710.DOC

QA-512 ERS 1/2/2008

Truong, Kenny Q

From: Allameh, David
Sent: Tuesday, September 01, 2009 9:40 AM
To: Truong, Kenny Q; Onishi, Marc; Young, Roger
Subject: FW: n-nitrosodiphenylamine and diphenylamine

FYI. DA

DAVID ALLAMEH
Organic & Advance Tech Instrument Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

880 Riverside Parkway
West Sacramento, CA 95605
Tel 916.374.4316 | Fax 916.372.1059
www.testamericainc.com

From: Burrows, Richard
Sent: Tuesday, September 01, 2009 9:36 AM
To: Tech Contact - Semi MS
Cc: Quality Assurance Mgrs; Carter, Charlie
Subject: n-nitrosodiphenylamine and diphenylamine

As you probably know, n-nitrosdiphenylamine breaks down to diphenylamine in the injection port of the GC. Therefore n-nitrosodiphenylamine and diphenylamine cannot be distinguished unless a separation step is performed prior to analysis.

We recently noticed that some standards vendors make up most of their mixed 8270 calibration standards using diphenylamine, (eg Restek) while others use mostly n-nitorodiphenylamine (eg Accustandard). Others have quite a mix (eg Ultra).

Depending on what you are using to calibrate, and what you are reporting, it may be necessary to apply a correction to the standards concentration because of the molecular weight difference between the two analytes.

→ Diphenylamine molectular weight = 169
n-nitrosodiphenylamine molecular weight = 198

If you are calibrating with a standard containing diphenylamine and reporting n-nitrosodiphenylamine then the concentration of the standard should be corrected by the factor 198/169 = 1.1716

I.e., a 100ppm diphenylamine is equivalent to a 117ppm n-nitrosodiphenylamine standard.

Conversely a 100ppm n-nitrosodiphenylamine standard is equivalent to 100 x 169/198 = 85.4ppm diphenylamine standard.

Please check your standards and make any necessary adjustments next time you calibrate the instrument. It is not necessary to check past data since the correction is quite small and detections in field samples are rare.

Richard

9/4/2009

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

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

Inst ID : sv5.i
Batch ID : 081710.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
17-AUG-2010	15:46	KT	QC	QC001.D	NA	NA	NA		
17-AUG-2010	16:12	KT	QC	QC002.D	NA	NA	NA		
17-AUG-2010	16:38	KT	QC	QC003.D	NA	NA	NA		
17-AUG-2010	17:11	KT	DFTPP 50ug/ml	DFT0817.D	NA	NA	NA		
17-AUG-2010	17:32	KT	HSL_050 ug/ml CS-4	HSL0817D.	NA	NA	NA		
17-AUG-2010	17:58	KT	HSL_005 ug/ml CS-1	HSL0817A.	NA	NA	NA		
17-AUG-2010	18:23	KT	HSL_010 ug/ml CS-2	HSL0817B.	NA	NA	NA		
17-AUG-2010	18:49	KT	HSL_020 ug/ml CS-3	HSL0817C.	NA	NA	NA		
17-AUG-2010	19:15	KT	HSL_080 ug/ml CS-5	HSL0817E.	NA	NA	NA		
17-AUG-2010	19:41	KT	HSL_120 ug/ml CS-6	HSL0817F.	NA	NA	NA		
17-AUG-2010	20:08	KT	HSL_160 ug/ml CS-7	HSL0817G.	NA	NA	NA		
17-AUG-2010	20:34	KT	HSL_050 ug/ml ICV	HSL0817H.	NA	NA	NA		
17-AUG-2010	21:19	KT	AP9_050 ug/ml CS-4	AP90817D.	NA	NA	NA		
17-AUG-2010	21:45	KT	AP9_005 ug/ml CS-1	AP90817A.	NA	NA	NA		
17-AUG-2010	22:11	KT	AP9_010 ug/ml CS-2	AP90817B.	NA	NA	NA		
17-AUG-2010	22:37	KT	AP9_020 ug/ml CS-3	AP90817C.	NA	NA	NA		
17-AUG-2010	23:03	KT	AP9_080 ug/ml CS-5	AP90817E.	NA	NA	NA		
17-AUG-2010	23:29	KT	AP9_120 ug/ml CS-6	AP90817F.	NA	NA	NA		
17-AUG-2010	23:55	KT	AP9_160 ug/ml CS-7	AP90817G.	NA	NA	NA		
18-AUG-2010	00:21	KT	AP9_050 ug/ml ICV	AP90817H.	NA	NA	NA		
18-AUG-2010	00:47	KT	AP9_050 ug/ml ARAMITE ICV	AP90817J.	NA	NA	NA		
18-AUG-2010	01:11	KT	DFTPP 50ug/ml	DFT0817A.	NA	NA	NA		
18-AUG-2010	01:32	KT	HSL_050 ug/ml CS-4	HSL0817.D	NA	NA	NA		
18-AUG-2010	01:58	KT	AP9_050 ug/ml CS-4	AP90817.D	NA	NA	NA		
18-AUG-2010	02:24	KT	L49ET1AA G0H060000-399B	S081701.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	02:50	KT	L49ET1AC G0H060000-399C	S081702.D	1000 Sa	1 mL	1	JZ	
18-AUG-2010	03:16	KT	L49ET1AD G0H060000-399L	S081703.D	1000 Sa	1 mL	1	JZ	

TestAmerica West Sacramento

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Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

Calibration File Names:
Level 1: \\SV5\C\chem\sv5.i\081710.B\HSL0817A.D
Level 2: \\SV5\C\chem\sv5.i\081710.B\HSL0817B.D
Level 3: \\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Level 4: \\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Level 5: \\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Level 6: \\SV5\C\chem\sv5.i\081710.B\HSL0817F.D
Level 7: \\SV5\C\chem\sv5.i\081710.B\HSL0817G.D

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
15 N-Nitrosodimethylamine	1.01450	1.02279	1.00102	0.99597	1.03756	1.04499					
	1.03863						AVRG		1.02221		1.88232
16 Pyridine	1.75460	1.78745	1.64406	1.71432	1.66801	1.68422					
	1.69533						AVRG		1.70686		2.92230
23 Aniline	2.41602	2.42382	2.40197	2.32813	2.41982	2.46234					
	2.43016						AVRG		2.41175		1.71083
24 Phenol	1.86052	2.02301	2.00276	1.96396	2.07756	2.05302					
	2.04528						AVRG		2.00373		3.64877

Manual calculation for Naphthalene @ Level #3: by 8/18/-

$\frac{292281}{529649} \times \frac{40}{20} = 1.10368$ by 8/18/-

TestAmerica West Sacramento

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Last Edit : 17-Aug-2010 21:38 sv5.i

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
26 Bis(2-chloroethyl)ether	1.56368	1.64346	1.56888	1.52442	1.56271	1.55178					
	1.53437						AVRG		1.56419		2.46689
27 2-Chlorophenol	1.56036	1.57152	1.58366	1.55319	1.58939	1.61515					
	1.59728						AVRG		1.58151		1.36511
28 1,3-Dichlorobenzene	1.78742	1.78828	1.76218	1.67419	1.73919	1.72360					
	1.72671						AVRG		1.74308		2.31648
29 1,4-Dichlorobenzene	1.76765	1.81190	1.81906	1.77090	1.76789	1.79093					
	1.78052						AVRG		1.78698		1.18806
30 Benzyl Alcohol	1.01928	1.04543	1.03397	1.03244	1.07996	1.12223					
	1.12522						AVRG		1.06550		4.13037
31 1,2-Dichlorobenzene	1.66822	1.65652	1.64301	1.57376	1.66057	1.65987					
	1.65194						AVRG		1.64484		1.96405
32 2-Methylphenol	1.43718	1.49228	1.49050	1.47602	1.51781	1.56150					
	1.54325						AVRG		1.50265		2.79610

TestAmerica West Sacramento

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
33 2,2'-oxybis(1-Chloropropane)	3.21512	3.12809	3.14551	3.02783	3.16664	3.15096					
	3.14062						AVRG		3.13925		1.80310
34 4-Methylphenol	1.49828	1.48942	1.53412	1.57515	1.60328	1.65209					
	1.62977						AVRG		1.56887		4.06144
36 Hexachloroethane	0.60113	0.59517	0.60665	0.60279	0.60376	0.62402					
	0.62640						AVRG		0.60856		1.95773
37 N-Nitrosodinpropylamine	1.08589	1.08778	1.09800	1.09917	1.15063	1.15883					
	1.17405						AVRG		1.12205		3.34626
42 Nitrobenzene	0.34799	0.34025	0.33504	0.34666	0.35472	0.36499					
	0.36003						AVRG		0.34995		3.04526
44 Isophorone	0.64832	0.68942	0.67116	0.69222	0.70439	0.71263					
	0.70479						AVRG		0.68899		3.26063
45 2-Nitrophenol	0.14234	0.14752	0.15334	0.17464	0.18069	0.19397					
	0.19225						AVRG		0.16925		12.64774

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
46 2,4-Dimethyphenol	0.35755	0.35783	0.35181	0.35790	0.36543	0.36576					
	0.37218						AVRG		0.36121		1.90125
47 Bis(2-chloroethoxy)methane	0.39104	0.40155	0.39507	0.41341	0.41511	0.40703					
	0.40373						AVRG		0.40385		2.20237
49 2,4-Dichlorophenol	0.22123	0.24854	0.25443	0.26129	0.25770	0.26465					
	0.26191						AVRG		0.25282		5.90405
50 Benzoic Acid	6347	19485	31703	112932	180014	365211					
	462275						QUAD	0.08735	5.95612	-1.47220	0.99898
51 1,2,4-Trichlorobenzene	0.28725	0.28972	0.28347	0.28031	0.28051	0.28360					
	0.27689						AVRG		0.28311		1.54277
52 Naphthalene	1.18887	1.14622	1.10368	1.10776	1.11078	1.13526					
	1.10893						AVRG		1.12878		2.74191
54 4-Chloroaniline	0.44467	0.44139	0.42757	0.44292	0.44412	0.44466					
	0.44312						AVRG		0.44121		1.38779

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
57 Hexachlorobutadiene	0.13877	0.12786	0.12772	0.13228	0.13305	0.13034					
	0.13142						AVRG		0.13163		2.85395
60 4-Chloro-3-Methylphenol	0.27935	0.28483	0.28238	0.30803	0.31318	0.31995					
	0.31793						AVRG		0.30081		5.94669
63 2-Methylnaphthalene	0.66976	0.69289	0.68496	0.68554	0.69727	0.69472					
	0.69748						AVRG		0.68895		1.43482
66 Hexachlorocyclopentadiene	0.24531	0.23651	0.24582	0.28532	0.27653	0.29311					
	0.30646						AVRG		0.26987		10.09846
69 2,4,6-Trichlorophenol	0.29206	0.27274	0.28570	0.30819	0.30355	0.31298					
	0.31270						AVRG		0.29827		5.11933
70 2,4,5-Trichlorphenol	0.28942	0.29734	0.31382	0.33738	0.34088	0.33777					
	0.34272						AVRG		0.32276		6.93169
71 2-Chloronaphthalene	1.12516	1.13786	1.11791	1.12983	1.10164	1.12054					
	1.13859						AVRG		1.12450		1.14068

TestAmerica West Sacramento

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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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
73 2-Nitroaniline	0.27288	0.31288	0.31659	0.37130	0.36220	0.39187					
	0.39463						AVRG		0.34605		13.28423
76 Dimethylphthalate	1.29101	1.29115	1.31276	1.31001	1.30537	1.34714					
	1.33123						AVRG		1.31267		1.56279
77 Acenaphthylene	1.85661	1.93182	1.92000	1.97894	1.98458	2.02706					
	2.02537						AVRG		1.96062		3.14503
79 2,6-Dinitrotoluene	0.24018	0.25465	0.26689	0.29520	0.28866	0.29954					
	0.30054						AVRG		0.27795		8.66546
80 3-Nitroaniline	0.33089	0.33187	0.34110	0.39174	0.37700	0.39689					
	0.40948						AVRG		0.36843		9.00476
81 Acenaphthene	1.31286	1.26633	1.23024	1.25923	1.23385	1.25901					
	1.25548						AVRG		1.25957		2.15594
82 2,4-Dinitrophenol	1953	6865	12525	44855	73028	156531					
	199866						QUAD	0.10866	7.74386	-3.08367	0.99824

TestAmerica West Sacramento

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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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
83 Dibenzofuran	1.72736	1.61906	1.62358	1.64891	1.64785	1.66493	1.64475	AVRG		1.65377		2.17962
84 4-Nitrophenol	0.14682	0.14493	0.15197	0.16105	0.16919	0.17872	0.18114	AVRG		0.16197		9.16051
86 2,4-Dinitrotoluene	7630	25152	43198	130969	206467	399329	483512	LINR	0.11522	0.41987		0.99779
91 Fluorene	1.39852	1.31631	1.29856	1.35572	1.34720	1.36586	1.33484	AVRG		1.34529		2.44684
92 Diethylphthalate	1.62175	1.36536	1.34274	1.39445	1.34070	1.37737	1.38471	AVRG		1.40387		6.99379
93 4-Chlorophenyl-phenylether	0.55277	0.54053	0.54995	0.56311	0.55065	0.55234	0.54558	AVRG		0.55070		1.26494
94 4-Nitroaniline	0.31061	0.31727	0.33907	0.38892	0.37686	0.38771	0.39612	AVRG		0.35951		10.08911

TestAmerica West Sacramento

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Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
97 4,6-Dinitro-2-methylphenol	2511	9641	16497	59003	101028	198420					
	242445						QUAD	0.12125	8.46350	-2.20990	0.99868
98 N-Nitrosodiphenylamine	0.58644	0.59823	0.59516	0.61816	0.63740	0.62388					
	0.61295						AVRG		0.61032		2.93988
100 Azobenzene	0.89117	0.90472	0.90628	0.88691	0.92658	0.92667					
	0.91843						AVRG		0.90868		1.76379
101 4-Bromophenyl-phenylether	0.18960	0.18915	0.17764	0.18516	0.19587	0.19144					
	0.19024						AVRG		0.18844		3.03878
108 Hexachlorobenzene	0.22025	0.21202	0.20199	0.20132	0.20162	0.20719					
	0.20499						AVRG		0.20706		3.36410
110 Pentachlorophenol	0.09216	0.09868	0.10438	0.12033	0.12326	0.12975					
	0.13435						AVRG		0.11470		14.18715
114 Phenanthrene	1.29082	1.27854	1.26480	1.22345	1.27117	1.25690					
	1.23558						AVRG		1.26018		1.88439

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
115 Anthracene	1.16006	1.21551	1.21860	1.24822	1.28808	1.28001					
	1.26825						AVRG		1.23982		3.64093
118 Carbazole	1.10400	1.14548	1.13503	1.15385	1.17903	1.20372					
	1.18612						AVRG		1.15818		2.93665
120 Di-n-Butylphthalate	1.23713	1.29306	1.26094	1.42700	1.47428	1.48954					
	1.50788						AVRG		1.38426		8.41798
126 Fluoranthene	0.98399	1.06823	1.05882	1.09129	1.15566	1.13889					
	1.12763						AVRG		1.08922		5.40551
127 Benzidine	22464	78032	126870	405107	653636	1233213					
	1564108						QUAD	0.07145	1.28470	-0.05562	0.99889
128 Pyrene	1.24890	1.24707	1.23596	1.22052	1.30910	1.37729					
	1.30927						AVRG		1.27830		4.36466
134 3,3'-dimethylbenzidine	17811	67457	106854	356611	578978	1062451					
	1380723						QUAD	0.07503	1.47167	-0.07506	0.99950

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
136 Butylbenzylphthalate	0.47550	0.55807	0.57621	0.61860	0.66994	0.70952	0.70669	AVRG		0.61636		13.98240
138 Benzo(a)Anthracene	0.96855	0.97716	1.00839	1.05024	1.06181	1.12277	1.10237	AVRG		1.04161		5.72741
139 Chrysene	1.13946	1.12833	1.09363	1.05830	1.11735	1.11357	1.09763	AVRG		1.10690		2.41772
140 3,3'-Dichlorobenzidine	0.26973	0.31691	0.32823	0.36315	0.38355	0.40153	0.41026	AVRG		0.35334		14.39349
141 bis(2-ethylhexyl)Phthalate	0.70003	0.77713	0.77559	0.87409	0.90540	0.94886	0.96870	AVRG		0.84997		11.84840
142 Di-n-octylphthalate	35902	126734	216026	719201	1143210	2050015	2721372	QUAD	0.06604	0.75499	-0.01999	0.99984
144 Benzo(b)fluoranthene	0.77604	1.05241	0.79339	0.90348	0.92689	0.93008	1.04555	AVRG		0.91826		11.80044

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
145 Benzo(k)fluoranthene	1.10127	1.10853	1.18540	1.10619	1.15251	1.26612					
	1.12957						AVRG		1.14994		5.16602
147 Benzo(e)pyrene	0.89911	0.90988	0.91982	0.93798	0.95129	0.98514					
	0.99761						AVRG		0.94298		3.97088
148 Benzo(a)pyrene	0.96980	0.94679	0.94956	0.99726	1.04880	1.09872					
	1.09357						AVRG		1.01493		6.43798
151 Indeno(1,2,3-cd)pyrene	0.71673	0.71574	0.73615	0.81278	0.81604	0.91319					
	0.88699						AVRG		0.79966		10.07032
152 Dibenzo(a,h)anthracene	0.79120	0.83815	0.84983	0.90664	0.91831	0.96641					
	1.00323						AVRG		0.89625		8.34055
153 Benzo(g,h,i)perylene	0.90428	0.86658	0.94474	0.94129	0.97592	1.02761					
	1.01755						AVRG		0.95399		6.09690
M 162 benzo b,k Fluoranthene Totals	1.87731	2.16093	1.97879	2.00967	2.07941	2.19620					
	2.17512						AVRG		2.06820		5.73469

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 7 2-Fluorophenol	1.39626	1.48805	1.44186	1.46999	1.49807	1.50517	1.48258	AVRG		1.46886		2.59690
$ 8 Phenol-d5	1.85744	1.79173	1.89227	1.84519	1.94305	1.95535	1.93504	AVRG		1.88858		3.19391
$ 9 2-Chlorophenol-d4	1.44140	1.59212	1.59712	1.56412	1.60437	1.60933	1.61406	AVRG		1.57465		3.87310
$ 10 1,2-Dichlorobenzene-d4	1.01101	0.99478	1.01190	0.95320	0.98286	0.99061	0.96713	AVRG		0.98736		2.19722
$ 11 Nitrobenzene-d5	0.32549	0.35020	0.32858	0.35698	0.35384	0.35923	0.36254	AVRG		0.34812		4.29363
$ 12 2-Fluorobiphenyl	1.24059	1.23689	1.27594	1.26062	1.27609	1.28026	1.28331	AVRG		1.26481		1.51939
$ 13 2,4,6-Tribromophenol	0.10901	0.12875	0.13917	0.14737	0.15069	0.15781	0.16457	AVRG		0.14248		13.23403

Report Date : 17-Aug-2010 21:38

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 14 Terphenyl-d14	0.74099	0.76829	0.75201	0.76006	0.80474	0.84343	0.80686	AVRG		0.78234		4.71328

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:38 sv5.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 18-Aug-2010 15:18

Calibration History

Method : \\sv5\c\chem\sv5.i\081710.B\8270f.m
Start Cal Date: 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 23:55
Last Cal Level: 7
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
17-AUG-2010 21:45	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817A.D
17-AUG-2010 17:58	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817A.D
Cal Level: 2 , Cal Amount: 10.00000		
17-AUG-2010 22:11	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817B.D
17-AUG-2010 18:23	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817B.D
Cal Level: 3 , Cal Amount: 20.00000		
17-AUG-2010 22:37	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817C.D
17-AUG-2010 18:49	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Cal Level: 4 , Cal Amount: 50.00000		
17-AUG-2010 21:19	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817D.D
17-AUG-2010 17:32	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Cal Level: 5 , Cal Amount: 80.00000		
17-AUG-2010 23:03	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817E.D
17-AUG-2010 19:15	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Cal Level: 6 , Cal Amount: 120.00000		
17-AUG-2010 23:29	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817F.D
17-AUG-2010 19:41	1_8270STD	

\\SV5\C\chem\sv5.i\081710.B\HSL0817F.D		

Cal Level: 7 , Cal Amount: 160.00000		
17-AUG-2010 23:55	2AP9STD	
\\SV5\C\chem\sv5.i\081710.B\AP90817G.D		
17-AUG-2010 20:08	1_8270STD	
\\SV5\C\chem\sv5.i\081710.B\HSL0817G.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

17-AUG-2010 20:34	1_8270STD	
\\SV5\C\chem\sv5.i\081710.B\HSL0817H.D		
17-AUG-2010 17:32	1_8270STD	
\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D		
17-AUG-2010 21:19	2AP9STD	
\\SV5\C\chem\sv5.i\081710.B\AP90817D.D		

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.5343026	5.000	PASS
Benzidine	0.5228771	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	203020	7.3	20.5	PASS

Sample //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D

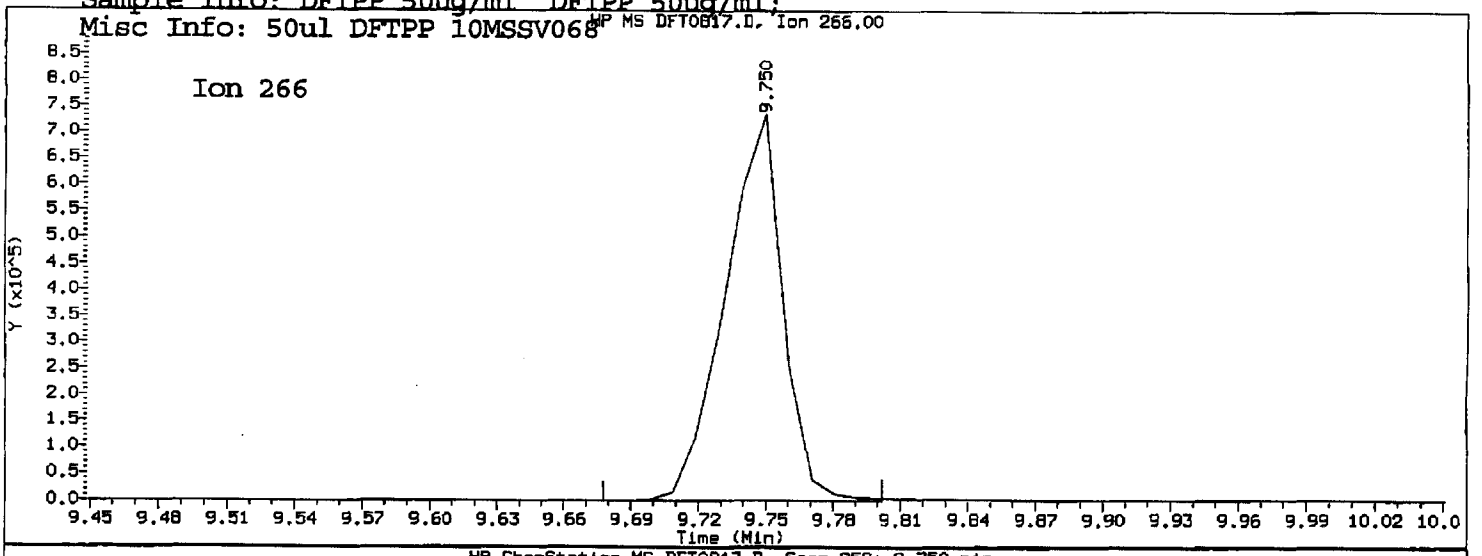
****
*** PASSED ***
****

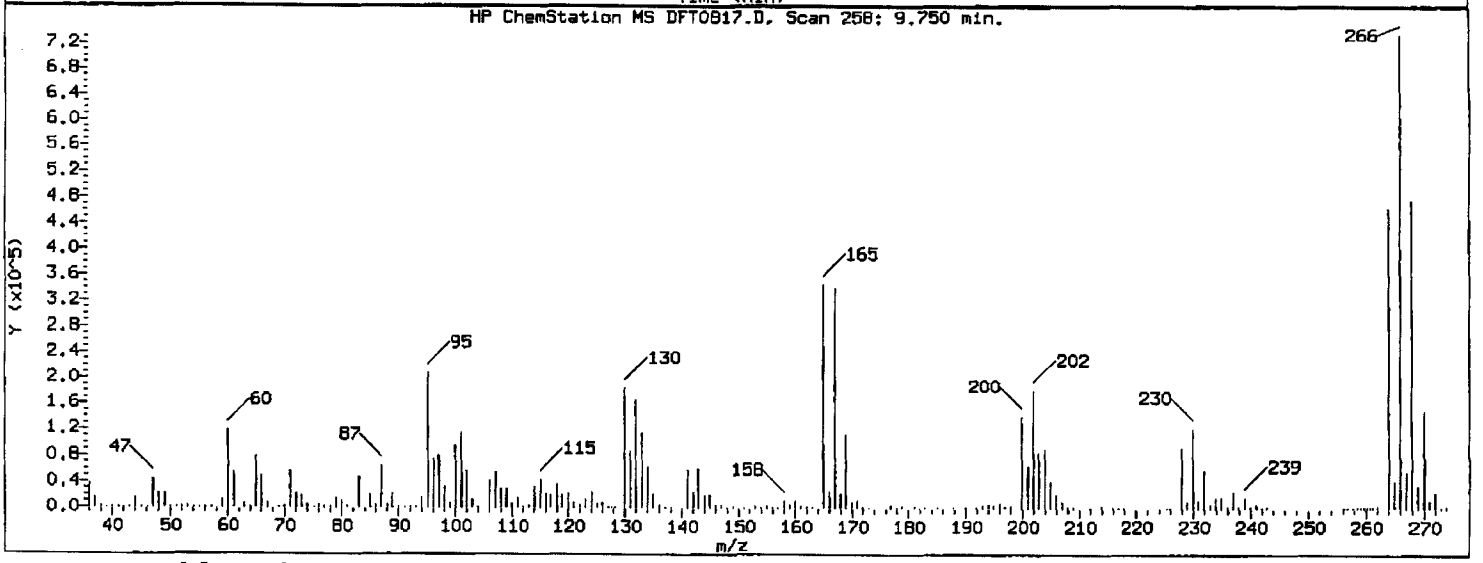
8/18/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068





Pentachlorophenol
==========
Exp. RT = 9.771
Found RT = 9.750

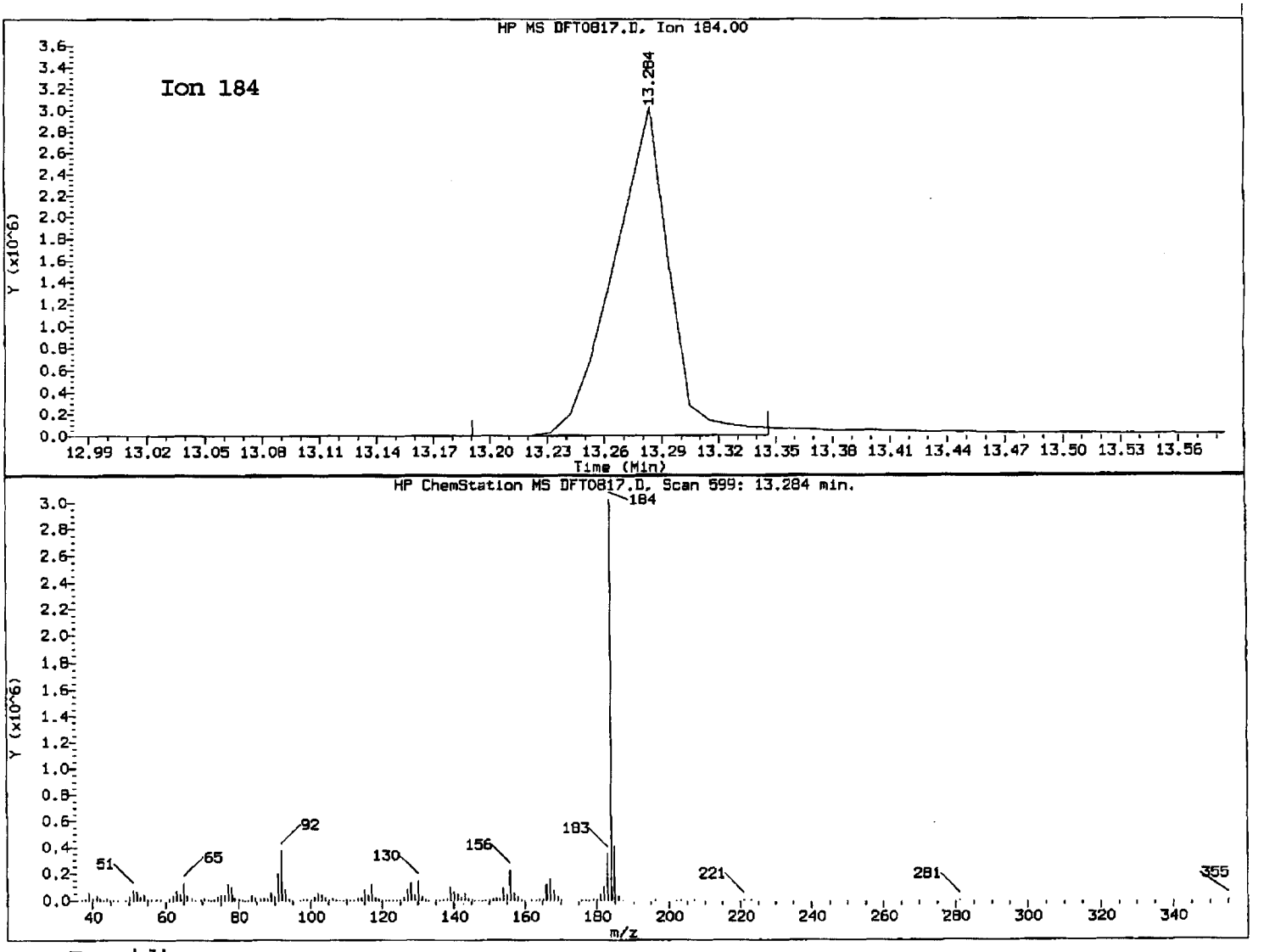
Time1 = 9.714386 Time2 = 9.749983 Time3 = 9.769003
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.534 Maximum Allowed = 5.0

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



Benzidine
==========
Exp. RT = 13.315
Found RT = 13.284

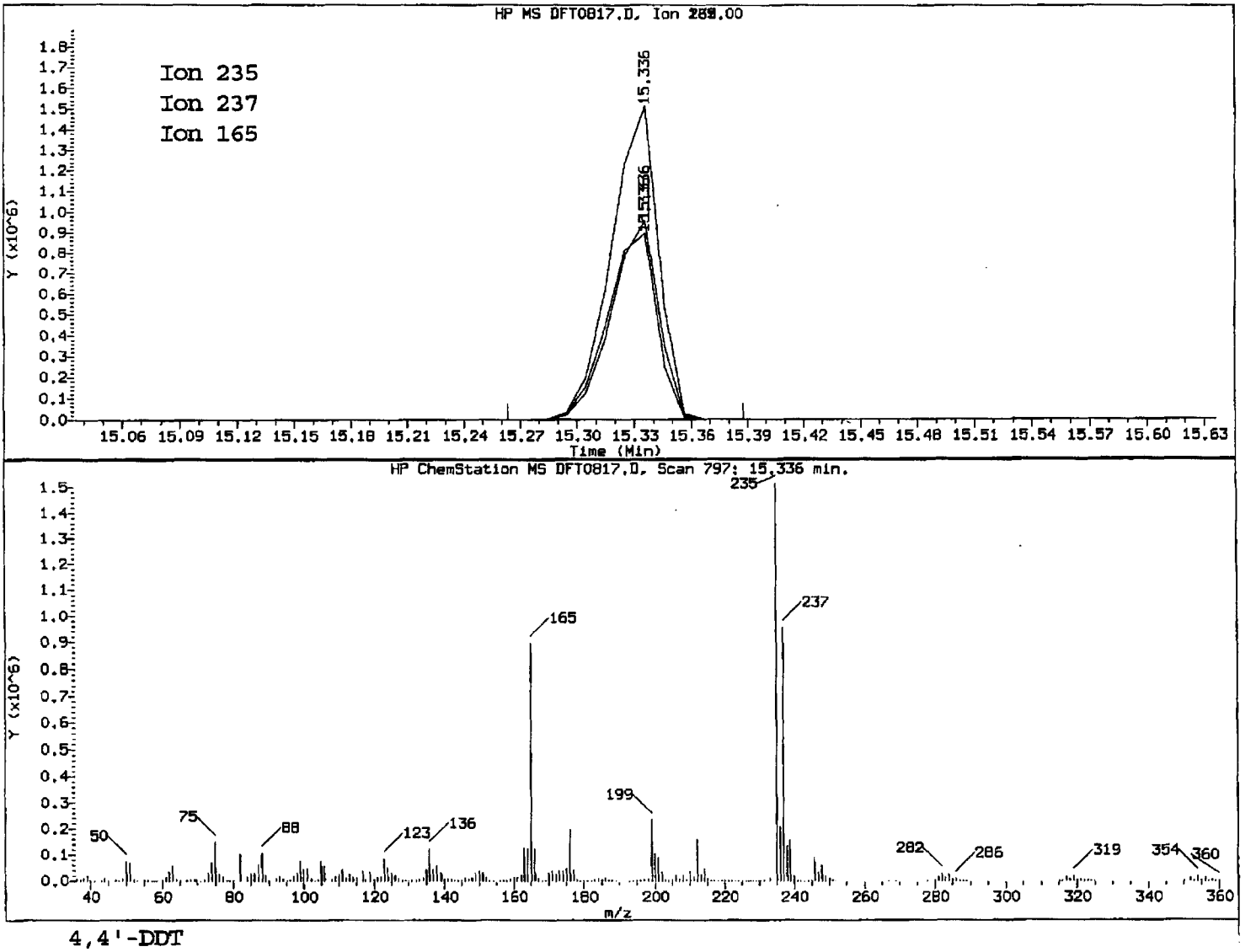
Time1 = 13.24454 Time2 = 13.28377 Time3 = 13.30428
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.523 Maximum Allowed = 3.0

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068

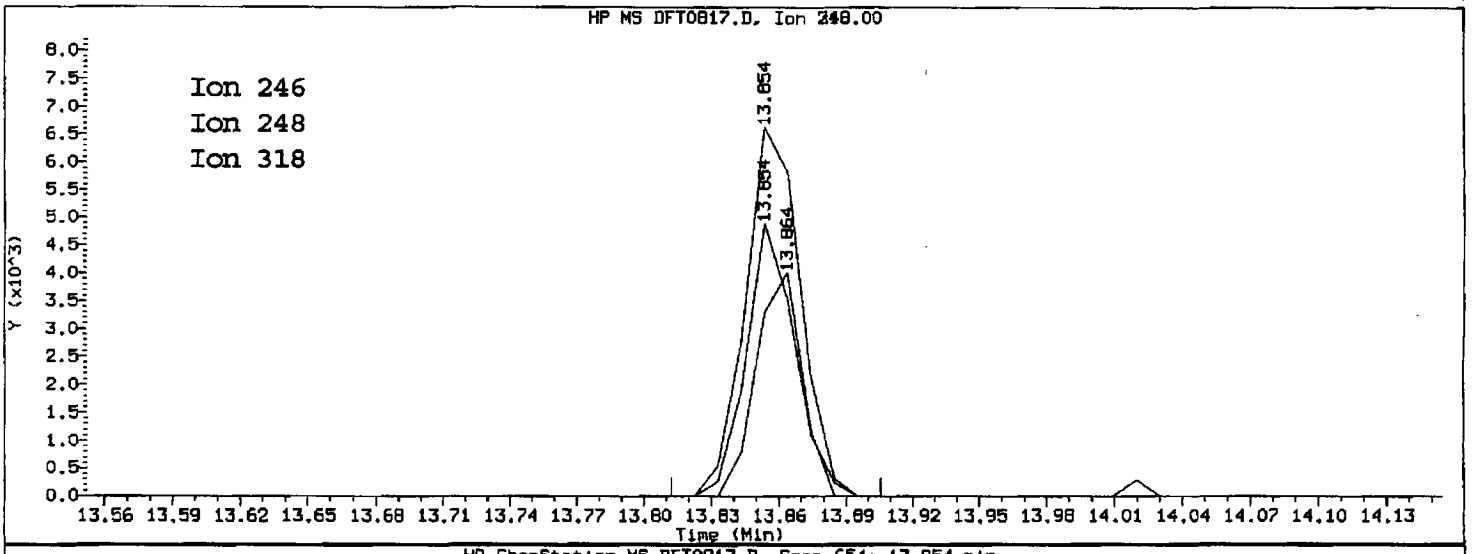


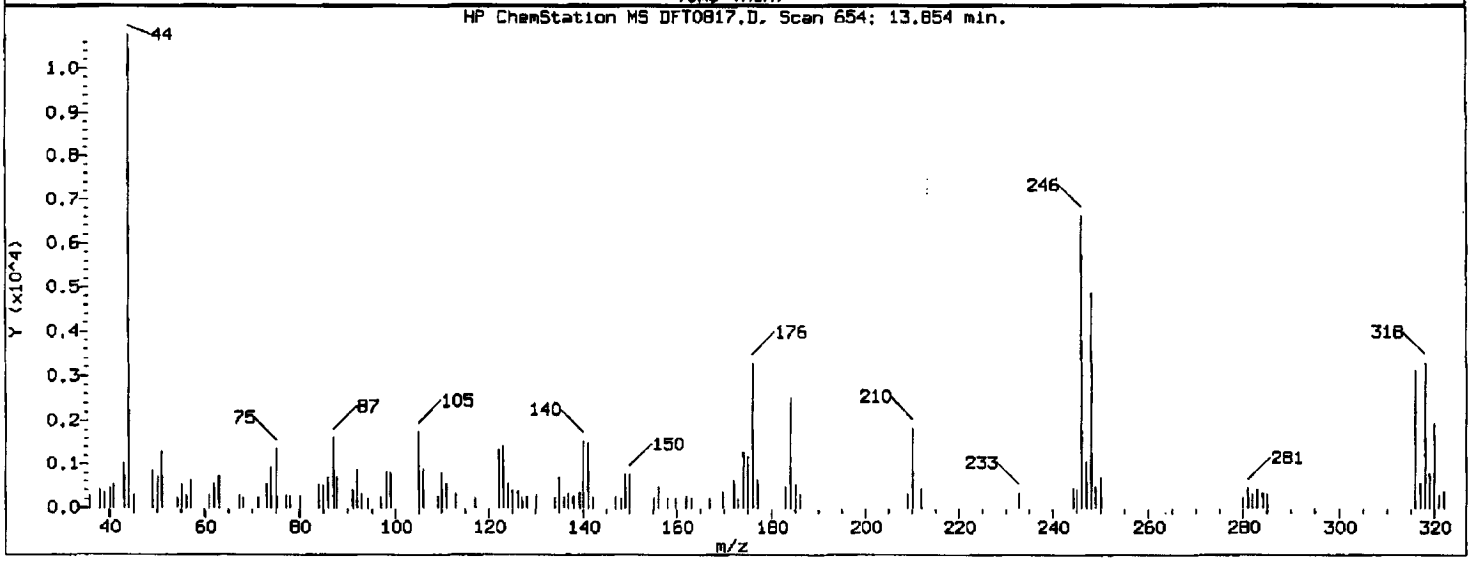
4,4'-DDT
========
Exp. RT = 15.357
Found RT = 15.336

Mass	Area	Ratio
235	2589837	100.00
237	1641475	63.38
165	1612718	62.27

Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068



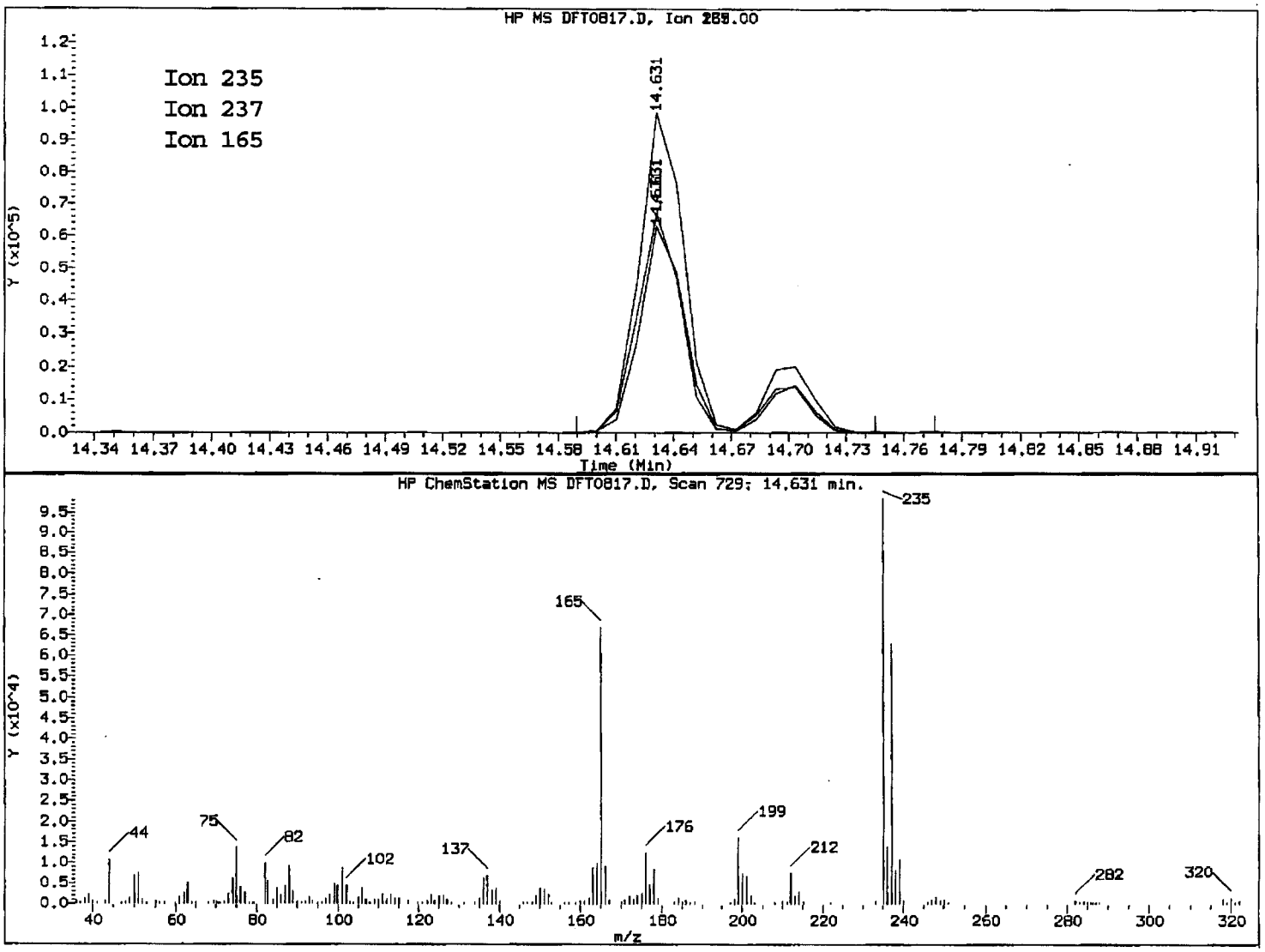


4,4'-DDE
========
Exp. RT = 13.875
Found RT = 13.854

Mass	Area	Ratio
246	11333	100.00
248	7409	65.38
318	5760	50.83

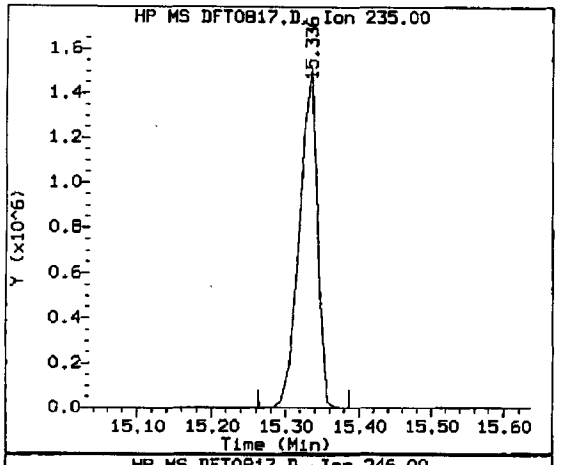
Report Date: 08/17/2010 19:28

Datafile Analyzed: //SV5/C/chem/sv5.i/081710.B/DFT0817.D/DFT0817.D
Method Used: \\SV5\C\chem\sv5.i\081710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 17-AUG-2010 17:11 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV068

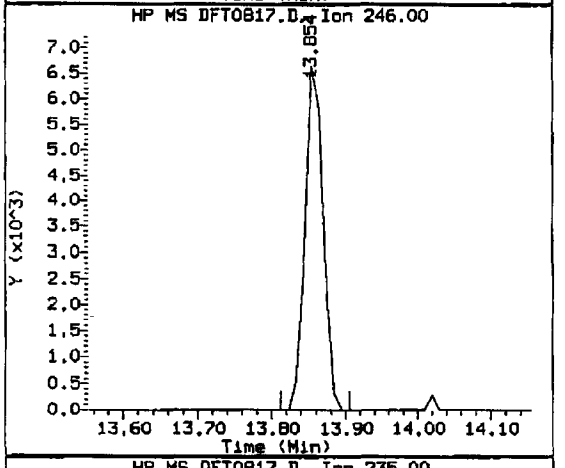


4,4'-DDD
========
Exp. RT = 14.652
Found RT = 14.631

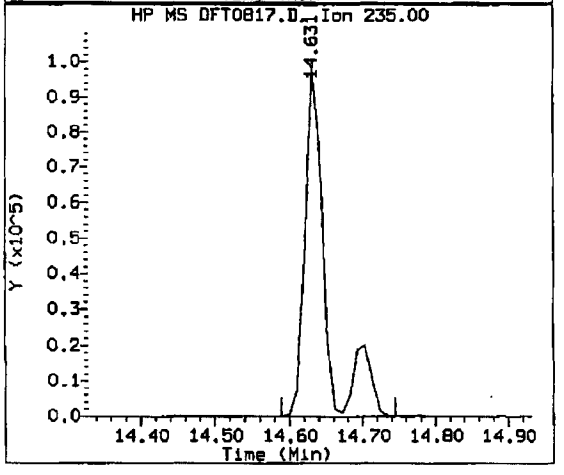
Mass	Area	Ratio
235	191687	100.00
237	122265	63.78
165	128302	66.93



Compound: 4,4'-DDT
Quant Mass: 235
RT: 15.336
Area: 2589837



Compound: 4,4'-DDE
Quant Mass: 246
RT: 13.854
Area: 11333



Compound: 4,4'-DDD
Quant Mass: 235
RT: 14.631
Area: 191687

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	203020	7.3	20.5	PASS

TestAmerica West Sacramento

Data file : \\sv5\c\chem\sv5.i\081710.B\DFT0817.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 17-AUG-2010 17:11
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV068
Comment :
Method : \\SV5\C\chem\sv5.i\081710.B\DFTPP.m
Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: SV5

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
11.190	11.201	(0.000)	198	795968			0.00- 100.00	100.00
11.190	11.201	(0.000)	51	524672			30.00- 80.00	65.92
11.190	11.201	(0.000)	68	6261			0.00- 2.00	1.49
11.190	11.201	(0.000)	69	419520			0.00- 0.00	52.71
11.190	11.201	(0.000)	70	1755			0.00- 2.00	0.42
11.190	11.201	(0.000)	127	487360			25.00- 75.00	61.23
11.190	11.201	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
11.190	11.201	(0.000)	199	53840			5.00- 9.00	6.76
11.190	11.201	(0.000)	275	157248			10.00- 30.00	19.76
11.190	11.201	(0.000)	365	20248			0.75- 0.00	2.54
11.190	11.201	(0.000)	441	79120			0.01- 99.99	72.72
11.190	11.201	(0.000)	442	534912			40.00- 110.00	67.20
11.190	11.201	(0.000)	443	108800			15.00- 24.00	20.34

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

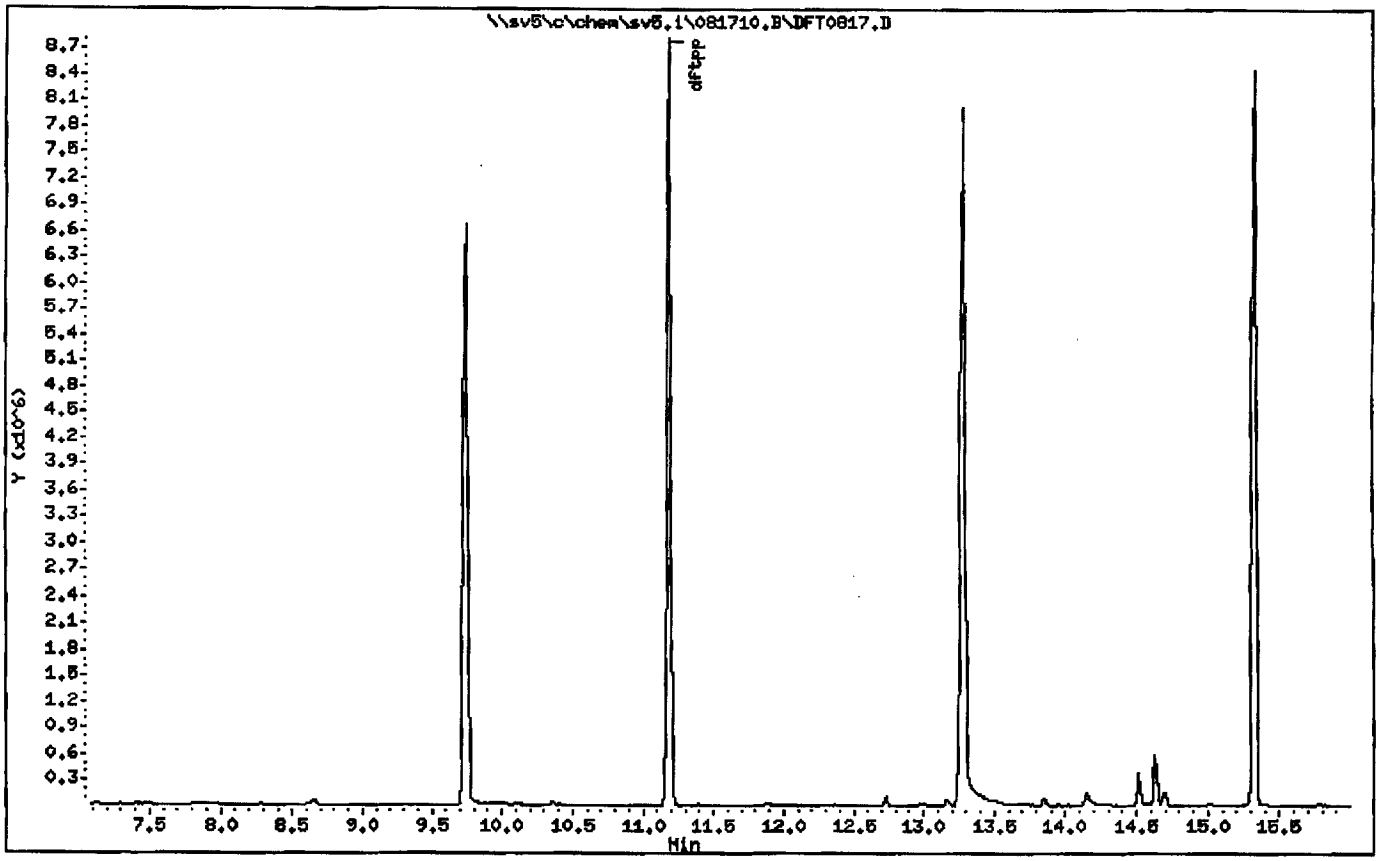
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

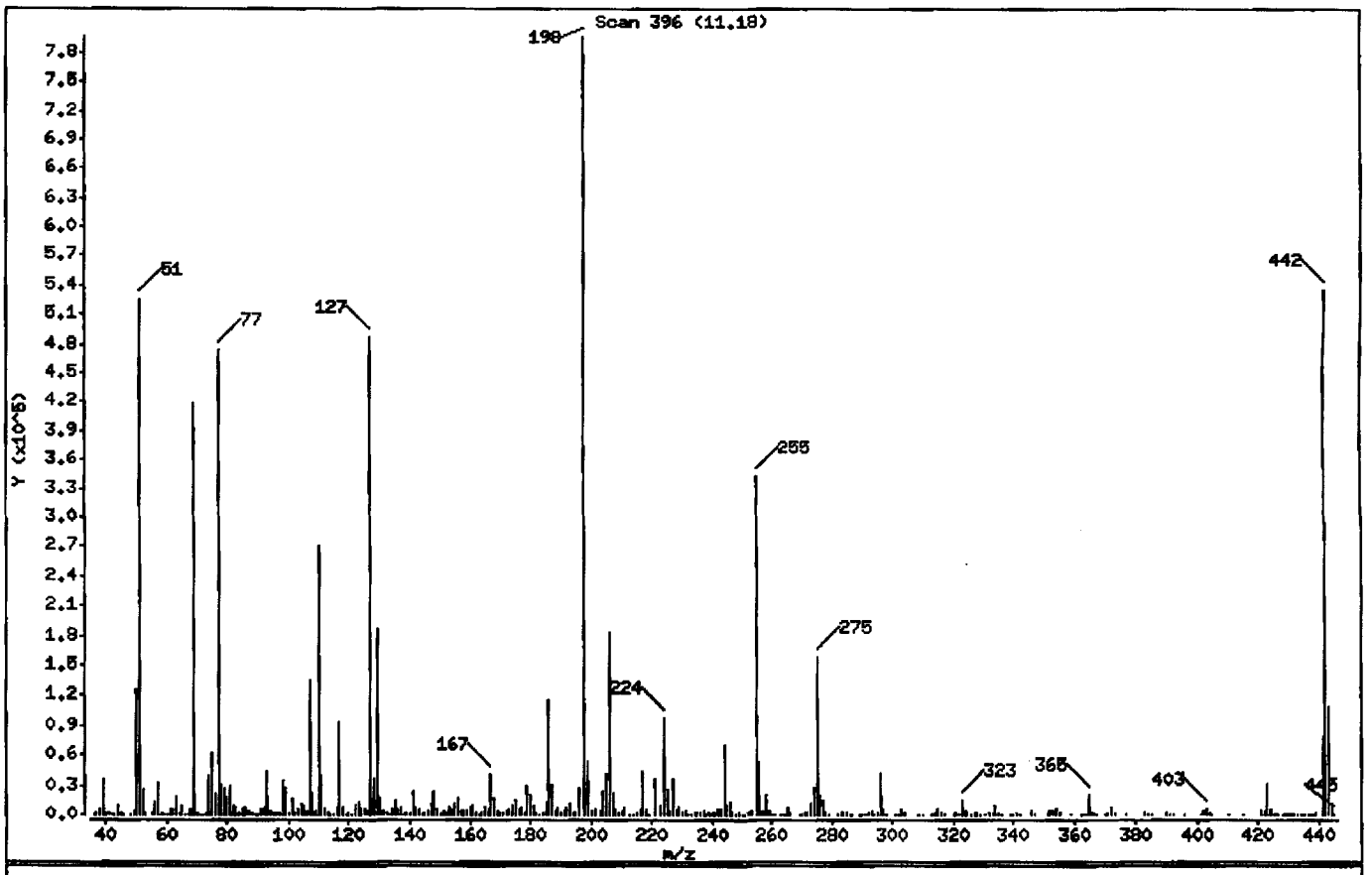
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	65.92
68	Less than 2.00% of mass 69	0.79 (1.49)
69	Mass 69 relative abundance	52.71
70	Less than 2.00% of mass 69	0.22 (0.42)
127	25.00 - 75.00% of mass 198	61.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	19.76
365	Greater than 0.75% of mass 198	2.54
441	Present, but less than mass 443	9.94
442	40.00 - 110.00% of mass 198	67.20
443	15.00 - 24.00% of mass 442	13.67 (20.34)

Data File: \\sv5\c\ohem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	555	124.00	6321	213.00	529	314.10	2378
37.00	1183	125.00	5909	214.10	431	315.00	5419
38.10	4993	126.20	3401	215.10	1771	316.10	2669
39.10	35928	127.00	487360	216.10	4611	317.00	313
40.00	1431	128.00	35984	217.00	44600	320.00	261
41.10	1356	129.00	186496	218.00	5855	321.00	1422
41.90	216	130.00	16315	218.90	367	322.20	781
43.00	416	131.00	3087	219.40	430	323.10	15423
44.00	9499	132.10	1728	221.00	37416	324.10	3275
45.10	1134	133.00	891	223.00	9421	325.90	443
46.00	318	134.00	4973	224.10	96632	327.00	2681
48.10	309	135.00	13949	225.10	24992	328.00	1205
49.10	3183	136.00	5306	226.00	2818	329.00	287
50.10	128952	137.10	6919	227.00	37320	330.80	231
51.10	524672	138.10	1683	228.00	5528	332.00	1145
52.10	26104	139.00	916	229.00	8071	333.10	1218
53.10	950	140.00	2304	230.00	1110	334.10	8989
55.10	2316	141.00	22952	231.00	3759	335.10	2449
56.00	13177	142.00	8219	232.10	508	336.00	281
57.00	32480	143.00	4726	233.10	660	339.00	308
58.00	1139	144.00	1166	234.00	2067	340.10	318
59.00	564	145.00	1380	235.00	2462	341.10	1864
60.20	262	146.00	4383	236.00	2018	342.00	502
61.00	5676	147.00	11476	237.10	3246	346.00	3429
62.10	6356	148.00	23752	238.00	276	347.00	716
63.10	17816	149.00	4970	239.00	1374	351.10	568
64.00	2345	150.00	1537	240.10	1168	352.00	4275
65.10	8431	151.10	2886	241.00	2367	353.10	2921
66.10	464	152.10	1857	242.10	4917	354.00	5500
67.20	740	153.00	6485	243.10	4684	355.10	1126
68.00	6261	154.10	5503	244.10	69952	359.10	295
69.00	419520	155.00	11492	245.10	9771	362.40	276
70.00	1755	156.10	16848	246.00	13489	363.70	334
71.10	291	157.10	4355	247.00	2506	365.00	20248
72.10	223	158.00	3090	248.00	639	366.00	2362

Data File: \\sv5\c\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2307	159.00	3144	249.10	2624	367.10	249
74.00	39680	160.00	6416	250.10	767	370.10	533
75.00	61864	161.00	8291	251.00	596	371.10	1519
76.10	22440	162.00	2664	252.10	1488	372.10	8197
77.10	473024	163.00	651	253.20	2760	373.10	2315
78.10	31552	164.00	1442	255.00	341504	377.10	285
79.00	27304	165.00	6912	256.00	53744	383.00	2210
80.00	18200	166.10	6269	257.10	4432	384.00	891
81.00	28864	167.00	40488	258.00	19512	385.10	250
82.00	8636	168.00	15649	259.00	3196	390.00	1164
83.00	7037	169.10	3030	259.90	534	391.00	703
84.00	1040	170.10	2052	261.00	648	392.10	448
85.00	5562	171.00	1962	263.10	419	395.90	236
86.00	7853	172.00	3136	264.00	734	401.00	549
87.00	4172	173.00	4587	265.00	7479	402.00	3555
88.10	1397	174.00	9175	266.00	1127	403.00	4648
89.00	524	175.10	15338	269.70	353	404.00	1443
90.10	206	176.10	5398	270.10	474	405.00	226
91.00	6294	177.00	7420	271.10	1007	410.00	211
92.10	8093	178.00	2575	272.00	1290	415.10	387
93.00	44264	179.00	29232	273.00	11465	421.00	4093
94.00	2939	180.00	20208	274.00	27648	422.10	3749
95.00	1081	181.00	8862	275.10	157248	423.00	30992
96.00	2438	182.00	1540	276.00	20256	424.10	6301
97.20	1124	183.10	682	277.00	14618	425.10	720
98.00	34368	184.10	2599	278.00	2654	425.60	339
99.00	27896	185.10	13502	279.00	617	426.10	236
100.00	2476	186.10	115784	282.00	302	426.50	230
101.00	17056	187.10	30336	283.00	1561	428.00	210
102.10	978	188.10	3491	284.00	1035	428.60	425
103.00	4951	189.00	6437	285.10	2412	429.00	478
104.00	10246	190.00	1202	286.00	394	429.60	227
105.00	9990	191.10	2791	287.00	220	430.10	237
106.00	3241	192.00	7345	289.00	480	430.60	348
107.00	136744	193.10	10846	290.00	379	431.30	275

Data File: \\sv5\o\chem\sv5.i\081710.B\DFT0817.D

Date : 17-AUG-2010 17:11

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0817.D
Spectrum: Scan 396 (11.18)
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	21064	194.00	2647	291.00	495	431.90	451
109.00	3605	195.10	2416	292.10	918	432.80	588
110.00	270080	196.00	27112	293.10	2976	433.90	402
111.00	39744	198.00	796968	294.00	846	434.40	556
112.00	5481	199.00	53840	295.10	1438	435.00	642
113.10	993	200.00	4287	296.00	42016	436.30	844
113.90	331	201.50	4852	297.00	5739	437.00	835
115.10	763	203.00	4435	298.00	589	437.50	656
116.00	7408	204.10	24264	301.00	782	438.10	794
117.00	93584	205.10	42488	302.10	782	439.00	993
118.00	6908	206.10	182848	303.10	4722	441.00	79120
119.10	784	207.10	22392	304.10	1577	442.00	534912
120.00	1981	208.00	6297	308.20	428	443.10	108800
121.00	724	209.10	1370	309.00	457	444.10	11061
122.00	9064	210.10	3012	310.10	679	445.00	544
123.00	12880	211.00	6946	313.10	459		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817A.D
Lab Smp Id: HSL_005 ug/ml CS-1 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 17:58
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 2 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	4.251	4.251	(1.000)	98721	40.0000	(q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	432773	40.0000	
* 3	Acenaphthene-d10	164	7.785	7.785	(1.000)	218174	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	348361	40.0000	
* 5	Chrysene-d12	240	14.231	14.230	(1.000)	318719	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	305118	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	17230	5.00000	4.753
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	22921	5.00000	4.918
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	17787	5.00000	4.577
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	12476	5.00000	5.120
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	17608	5.00000	4.675(M)
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	33833	5.00000	4.904
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	2973	5.00000	3.826(q)
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	29521	5.00000	4.736
15	N-Nitrosodimethylamine	74	2.002	1.992	(0.471)	12519	5.00000	4.962(Q)
16	Pyridine	79	2.054	2.023	(0.483)	21652	5.00000	5.140
23	Aniline	93	3.950	3.950	(0.929)	29814	5.00000	5.009
24	Phenol	94	3.899	3.899	(0.917)	22959	5.00000	4.643
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	19296	5.00000	4.998
27	2-Chlorophenol	128	4.064	4.064	(0.956)	19255	5.00000	4.933
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	22057	5.00000	5.127
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	21813	5.00000	4.946
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	12578	5.00000	4.783
31	1,2-Dichlorobenzene	146	4.469	4.468	(1.051)	20586	5.00000	5.071
32	2-Methylphenol	108	4.531	4.541	(1.066)	17735	5.00000	4.782
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.582	(1.078)	39675	5.00000	5.121
34	4-Methylphenol	108	4.697	4.696	(1.105)	18489	5.00000	4.775(q)
36	Hexachloroethane	117	4.800	4.800	(1.129)	7418	5.00000	4.939
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	13400	5.00000	4.839
42	Nitrobenzene	77	4.904	4.904	(0.865)	18825	5.00000	4.972
44	Isophorone	82	5.163	5.163	(0.910)	35072	5.00000	4.705
45	2-Nitrophenol	139	5.266	5.266	(0.929)	7700	5.00000	4.205
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	19342	5.00000	4.949

8/18/10

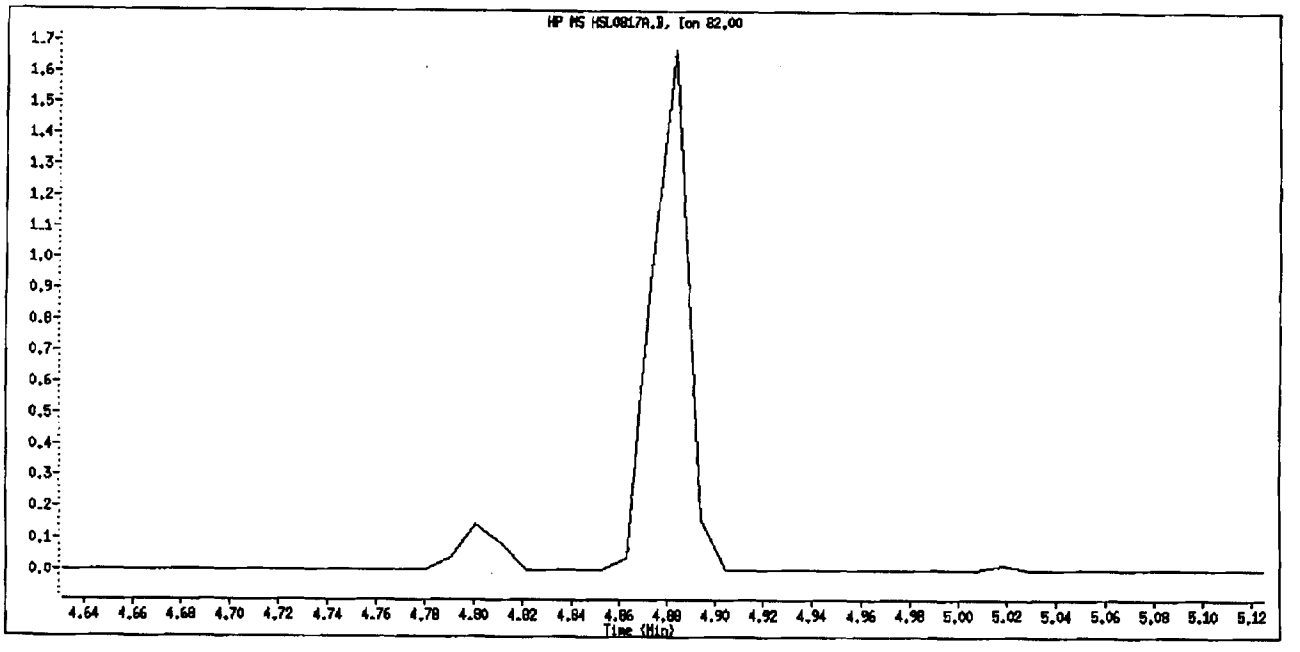
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	21154	5.00000	4.841
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	11968	5.00000	4.375 (M)
50	Benzoic Acid	122	5.349	5.360	(0.943)	6347	5.00000	6.975 (Q)
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	15539	5.00000	5.073
52	Naphthalene	128	5.691	5.691	(1.004)	64314	5.00000	5.266
54	4-Chloroaniline	127	5.785	5.785	(1.020)	24055	5.00000	5.039
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	7507	5.00000	5.271
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	15112	5.00000	4.643
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	36232	5.00000	4.861
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	6690	5.00000	4.545
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	7965	5.00000	4.896
70	2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	7893	5.00000	4.484
71	2-Chloronaphthalene	162	7.090	7.090	(0.911)	30685	5.00000	5.003
73	2-Nitroaniline	65	7.256	7.256	(0.932)	7442	5.00000	3.943
76	Dimethylphthalate	163	7.526	7.526	(0.967)	35208	5.00000	4.917
77	Acenaphthylene	152	7.598	7.598	(0.976)	50633	5.00000	4.735 (M)
79	2,6-Dinitrotoluene	165	7.609	7.608	(0.977)	6550	5.00000	4.320 (qM)
80	3-Nitroaniline	138	7.764	7.764	(0.997)	9024	5.00000	4.491 (Q)
81	Acenaphthene	153	7.826	7.826	(1.005)	35804	5.00000	5.212
82	2,4-Dinitrophenol	184	7.888	7.888	(1.013)	1953	5.00000	7.109 (Q)
83	Dibenzofuran	168	8.023	8.033	(1.031)	47108	5.00000	5.222
84	4-Nitrophenol	109	7.961	7.971	(1.023)	4004	5.00000	4.532 (Q)
86	2,4-Dinitrotoluene	165	8.085	8.085	(1.039)	7630	5.00000	7.941 (M)
91	Fluorene	166	8.479	8.479	(1.089)	38140	5.00000	5.198
92	Diethylphthalate	149	8.427	8.427	(1.083)	44228	5.00000	5.776
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	15075	5.00000	5.019
94	4-Nitroaniline	138	8.552	8.552	(1.099)	8471	5.00000	4.320 (q)
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	2511	5.00000	7.286 (q)
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	29929	5.86000	5.631
100	Azobenzene	77	8.697	8.697	(0.889)	38806	5.00000	4.904
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	8256	5.00000	5.030
108	Hexachlorobenzene	284	9.350	9.349	(0.956)	9591	5.00000	5.319
110	Pentachlorophenol	266	9.609	9.609	(0.982)	4013	5.00000	4.017
114	Phenanthrene	178	9.816	9.816	(1.003)	56209	5.00000	5.122
115	Anthracene	178	9.888	9.888	(1.011)	50515	5.00000	4.678
118	Carbazole	167	10.147	10.147	(1.037)	48074	5.00000	4.766
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	53871	5.00000	4.468
126	Fluoranthene	202	11.723	11.723	(1.198)	42848	5.00000	4.517
127	Benzidine	184	11.982	11.992	(0.842)	22464	5.00000	6.469
128	Pyrene	202	12.085	12.085	(0.849)	49756	5.00000	4.885
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	17811	5.00000	6.282
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	18944	5.00000	3.857
138	Benzo(a)Anthracene	228	14.199	14.199	(0.998)	38587	5.00000	4.649
139	Chrysene	228	14.272	14.272	(1.003)	45396	5.00000	5.147
140	3,3'-Dichlorobenzidine	252	14.231	14.241	(1.000)	10746	5.00000	3.817
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	27889	5.00000	4.118
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	35902	5.00000	6.033
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	29598	5.00000	4.226
145	Benzo(k)fluoranthene	252	16.075	16.085	(0.966)	42002	5.00000	4.788
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	34292	5.00000	4.767
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	36988	5.00000	4.778
151	Indeno(1,2,3-cd)pyrene	276	18.417	18.428	(1.107)	27336	5.00000	4.481 (M)
152	Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	30176	5.00000	4.414
153	Benzo(g,h,i)perylene	276	18.904	18.915	(1.136)	34489	5.00000	4.739

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				71600	5.00000	4.538 (A)

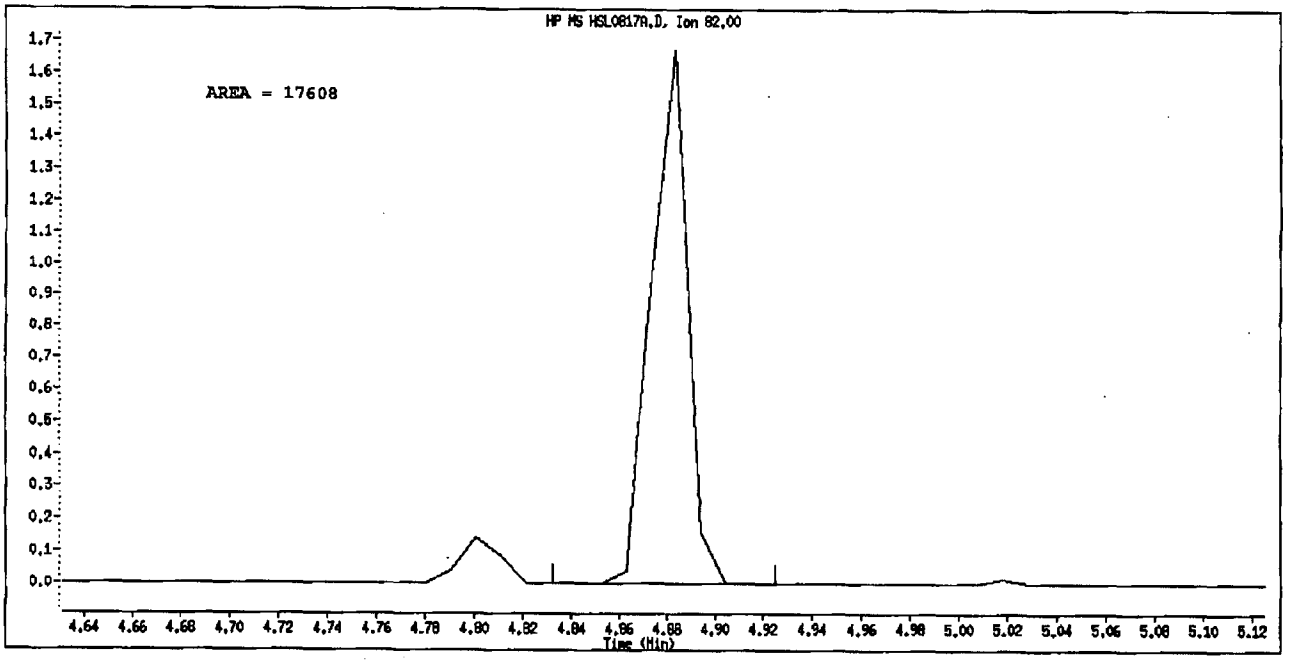
QC Flag Legend

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: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 08/18/2010



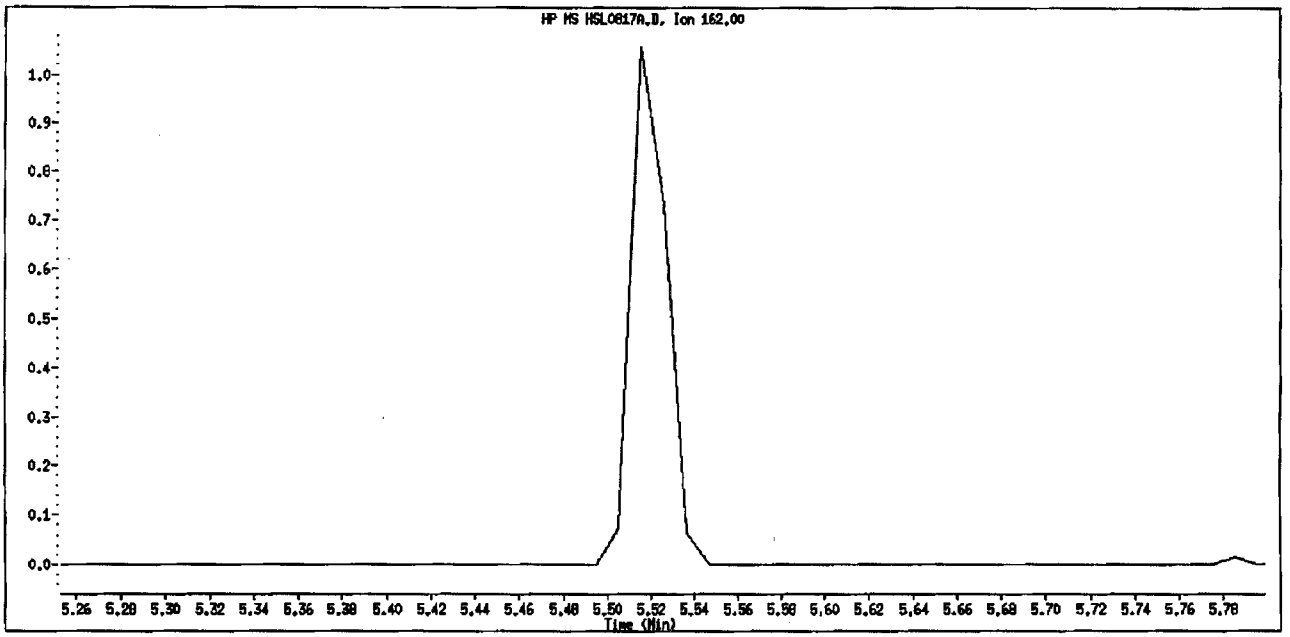
Original Integration



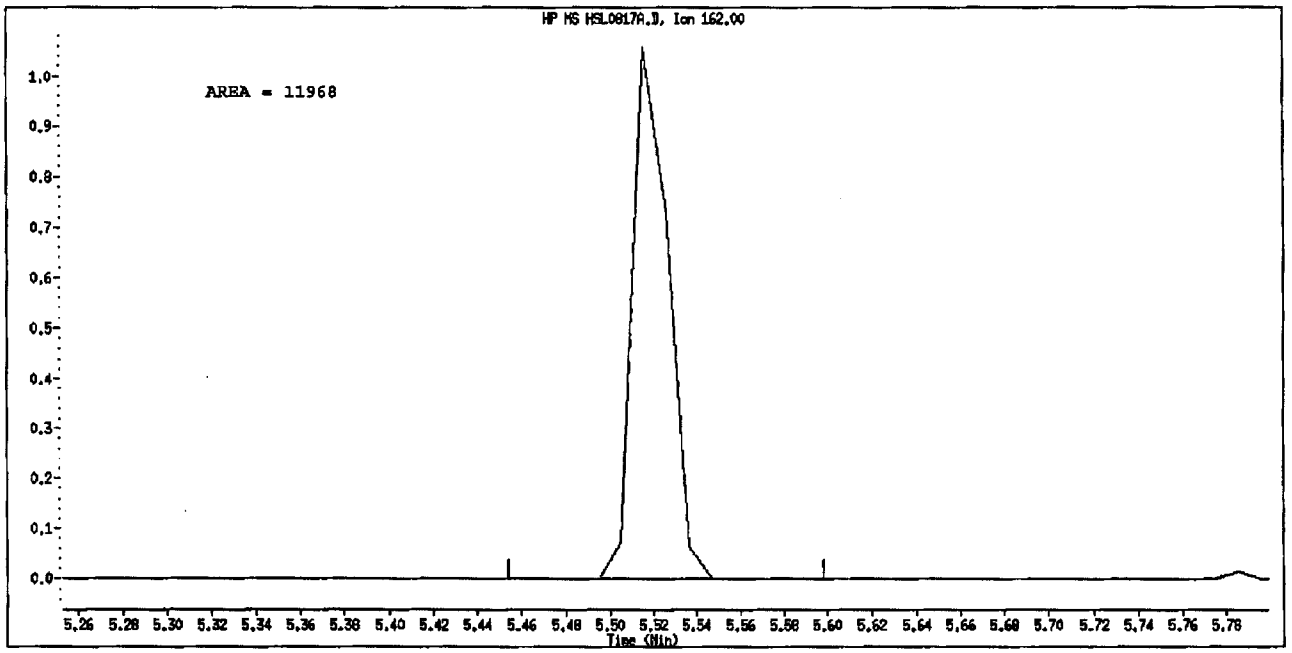
Manual Integration

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

Data File Name: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,4-Dichlorophenol
CAS #: 120-83-2
Report Date: 08/18/2010



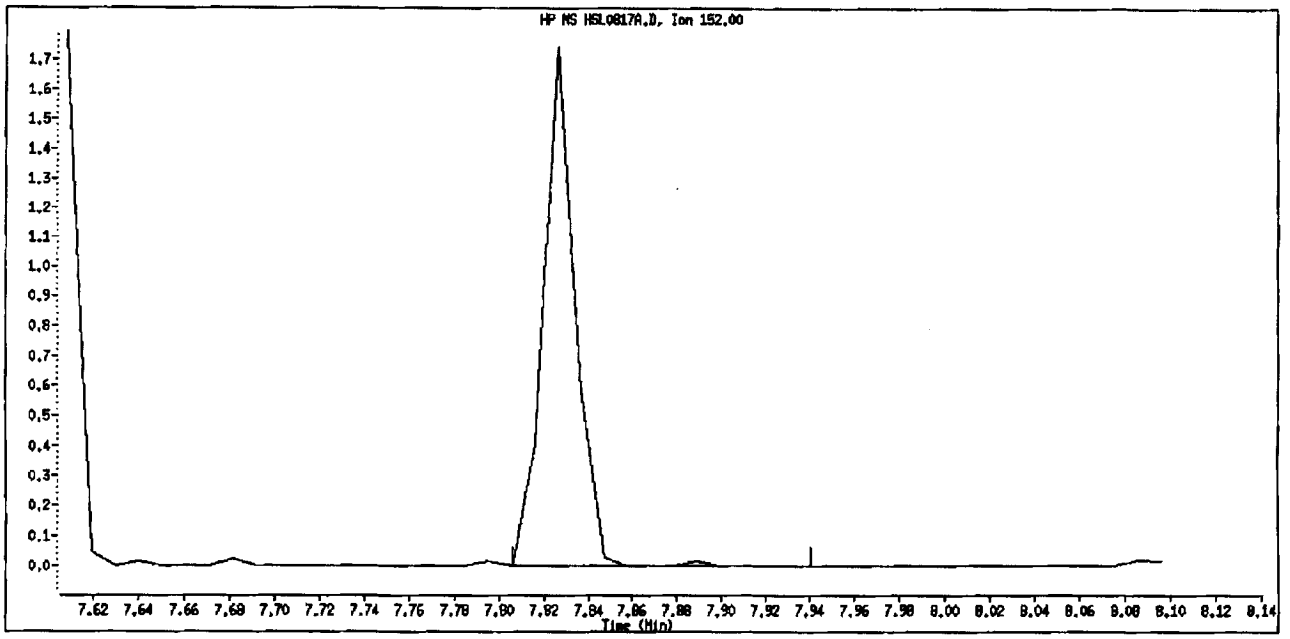
Original Integration



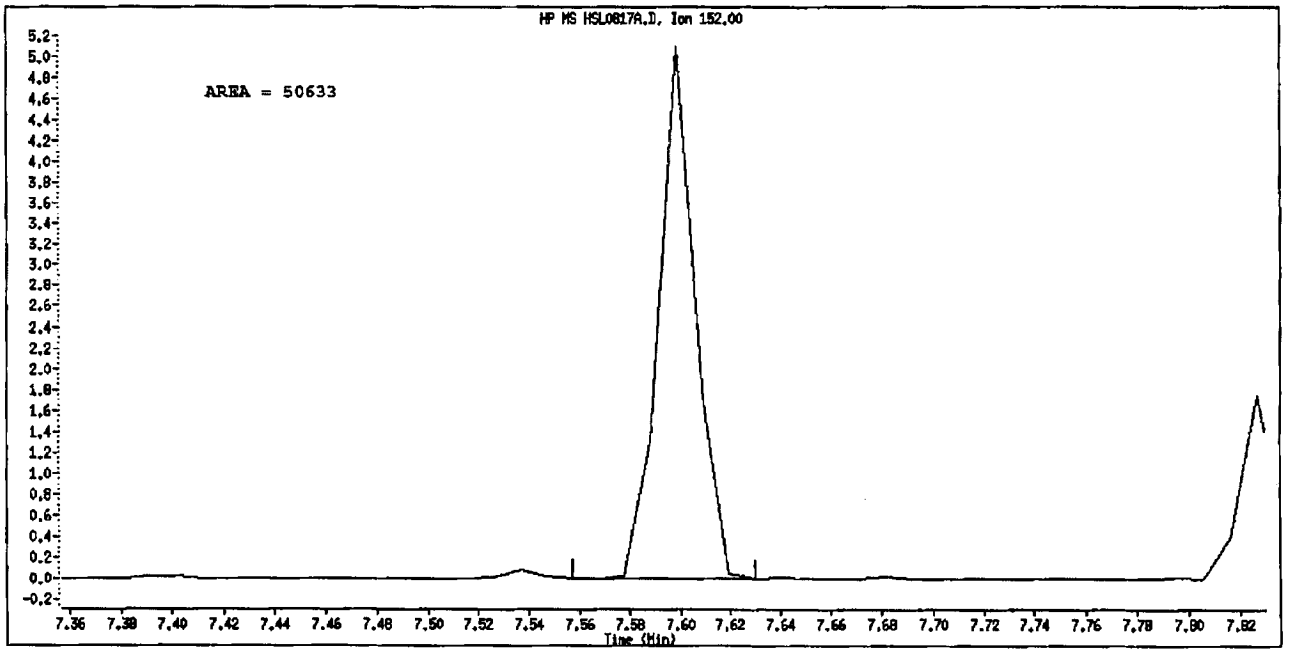
Manual Integration

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

Data File Name: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Acenaphthylene
CAS #: 208-96-8
Report Date: 08/18/2010



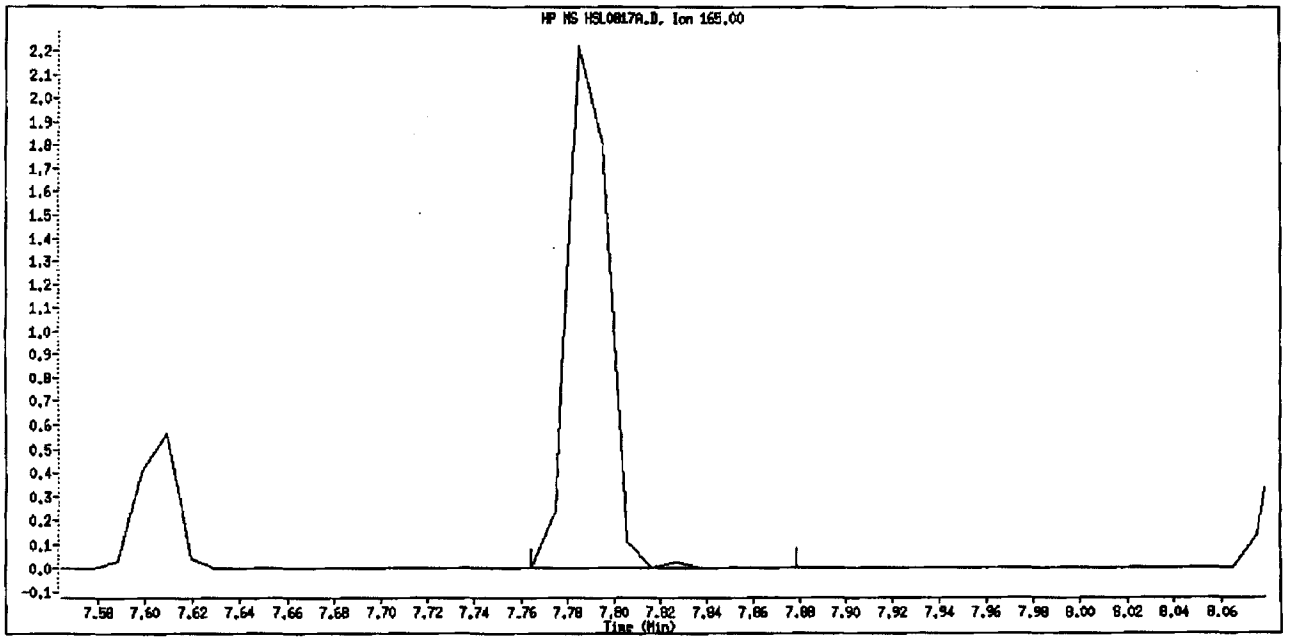
Original Integration



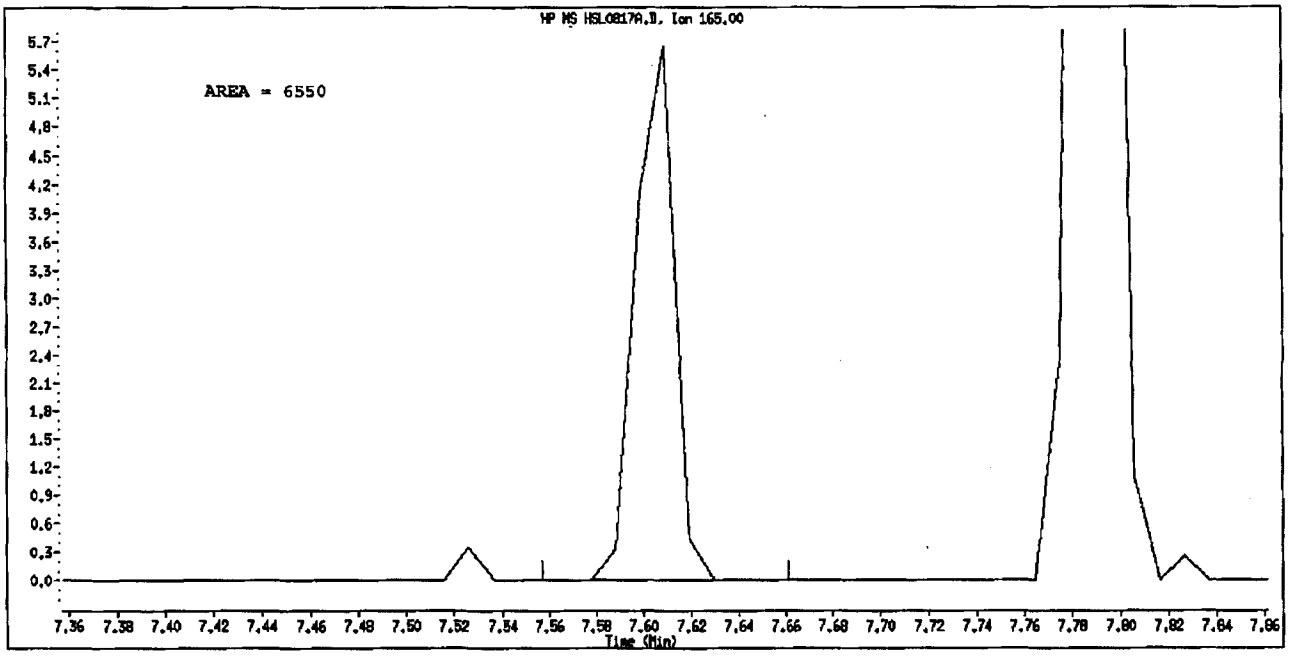
Manual Integration

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

Data File Name: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 08/18/2010



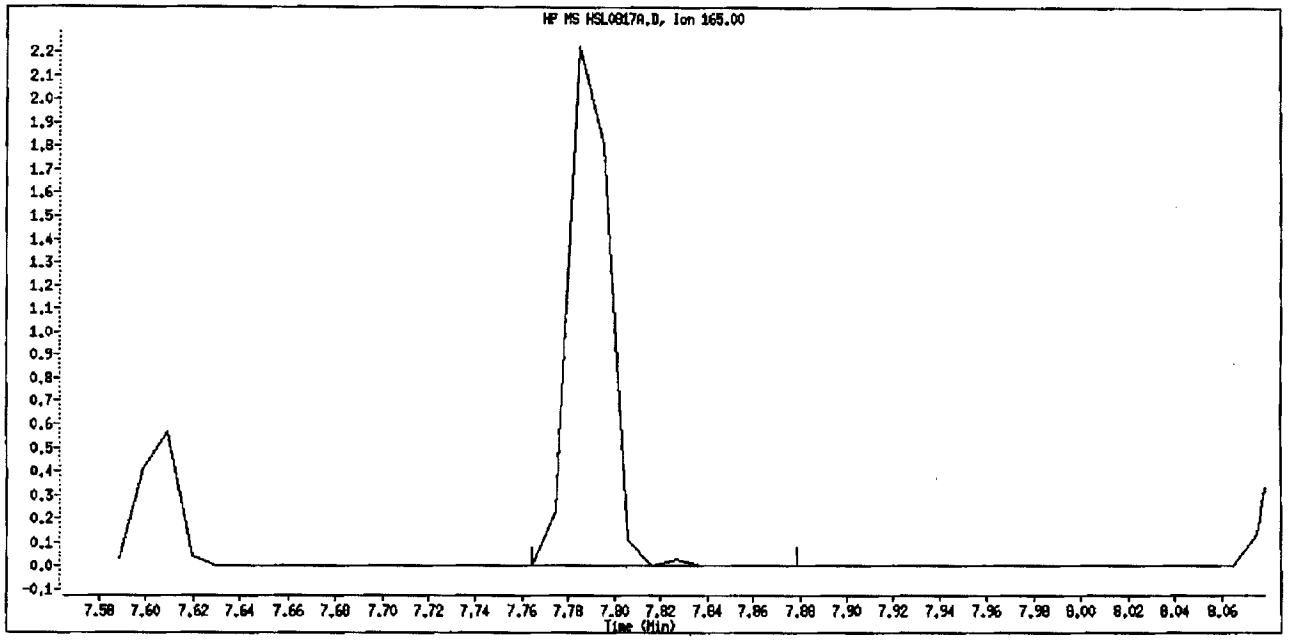
Original Integration



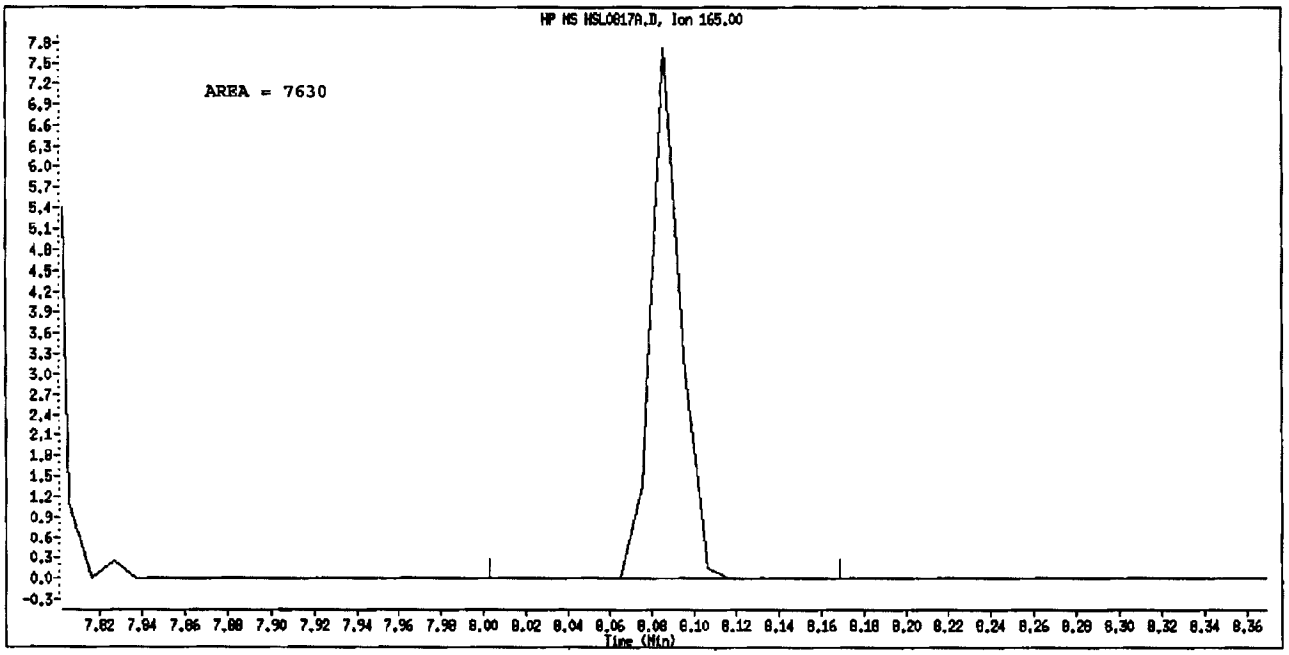
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,4-Dinitrotoluene
CAS #: 121-14-2
Report Date: 08/18/2010



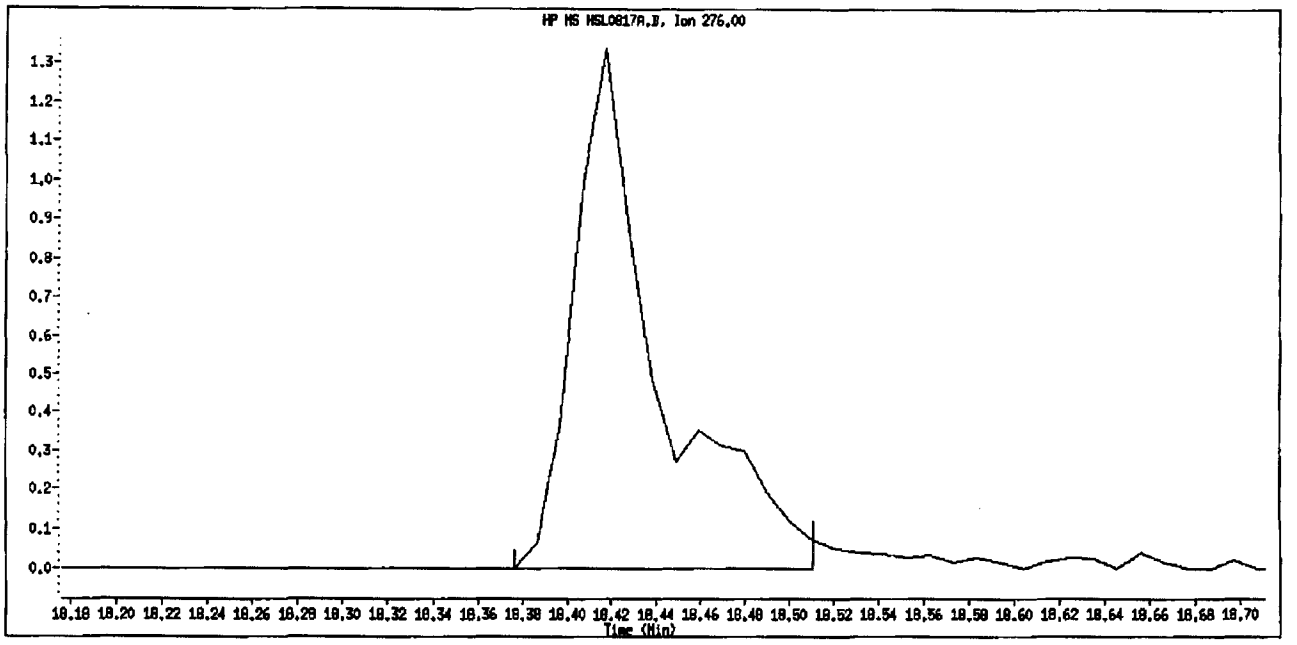
Original Integration



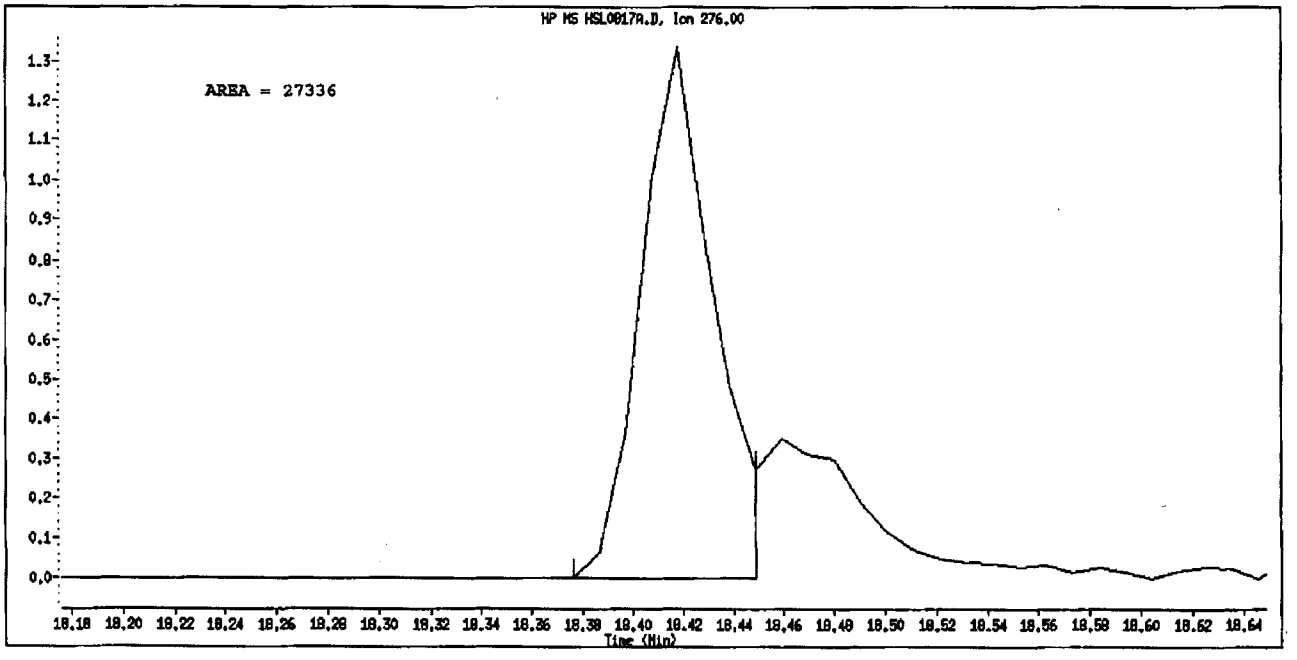
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817A.D
Inj. Date and Time: 17-AUG-2010 17:58
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 08/18/2010



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\081710.B\HSL0817A.D
Lab Smp Id: HSL_005 ug/ml CS-1 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 17:58
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 17:58 Cal File: HSL0817A.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SV5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	98721	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	432773	40.0000	
* 3	Acenaphthene-d10	164	7.785	7.785	(1.000)	218174	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	348361	40.0000	
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	318719	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	305118	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	17230	5.00000	4.871
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	22921	5.00000	5.016
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	17787	5.00000	4.796
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	12476	5.00000	5.147
$ 11	Nitrobenzene-d5	82	Compound Not Detected.					
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	33833	5.00000	4.960
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	2973	5.00000	4.252
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	29521	5.00000	4.936
15	N-Nitrosodimethylamine	74	2.002	2.002	(0.471)	12519	5.00000	5.046
16	Pyridine	79	2.054	2.054	(0.483)	21652	5.00000	5.058
23	Aniline	93	3.950	3.950	(0.929)	29814	5.00000	5.093
24	Phenol	94	3.899	3.899	(0.917)	22959	5.00000	4.865
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	19296	5.00000	5.064
27	2-Chlorophenol	128	4.064	4.064	(0.956)	19255	5.00000	5.012
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	22057	5.00000	5.164
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	21813	5.00000	4.995
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	12578	5.00000	4.968
31	1,2-Dichlorobenzene	146	4.469	4.469	(1.051)	20586	5.00000	5.146
32	2-Methylphenol	108	4.531	4.531	(1.066)	17735	5.00000	4.933
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.583	(1.078)	39675	5.00000	5.150
34	4-Methylphenol	108	4.697	4.697	(1.105)	18489	5.00000	4.875
36	Hexachloroethane	117	4.800	4.800	(1.129)	7418	5.00000	4.993
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	13400	5.00000	4.970
42	Nitrobenzene	77	4.904	4.904	(0.865)	18825	5.00000	5.010
44	Isophorone	82	5.163	5.163	(0.910)	35072	5.00000	4.836
45	2-Nitrophenol	139	5.266	5.266	(0.929)	7700	5.00000	4.490
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	19342	5.00000	4.998

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	21154	5.00000	4.861
49 2,4-Dichlorophenol	162	Compound Not Detected.					
50 Benzoic Acid	122	5.349	5.349	(0.943)	6347	5.00000	3.538
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	15539	5.00000	5.061
52 Naphthalene	128	5.691	5.691	(1.004)	64314	5.00000	5.177
54 4-Chloroaniline	127	5.785	5.785	(1.020)	24055	5.00000	5.010
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	7507	5.00000	5.120
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	15112	5.00000	4.756
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	36232	5.00000	4.942
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	6690	5.00000	4.623
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	7965	5.00000	4.866
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	7893	5.00000	4.617
71 2-Chloronaphthalene	162	7.090	7.090	(0.911)	30685	5.00000	4.990
73 2-Nitroaniline	65	7.256	7.256	(0.932)	7442	5.00000	4.236
76 Dimethylphthalate	163	7.526	7.526	(0.967)	35208	5.00000	4.963
77 Acenaphthylene	152	7.826	7.826	(1.005)	17286	5.00000	2.426
79 2,6-Dinitrotoluene	165	7.785	7.785	(1.000)	27309	5.00000	7.718
80 3-Nitroaniline	138	7.764	7.764	(0.997)	9024	5.00000	4.579
81 Acenaphthene	153	7.826	7.826	(1.005)	35804	5.00000	5.104
82 2,4-Dinitrophenol	184	7.888	7.888	(1.013)	1953	5.00000	3.617
83 Dibenzofuran	168	8.023	8.023	(1.031)	47108	5.00000	5.116
84 4-Nitrophenol	109	7.961	7.961	(1.023)	4004	5.00000	4.769
86 2,4-Dinitrotoluene	165	7.785	7.785	(1.000)	27309	5.00000	7.307
91 Fluorene	166	8.479	8.479	(1.089)	38140	5.00000	5.078
92 Diethylphthalate	149	8.427	8.427	(1.083)	44228	5.00000	5.377
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	15075	5.00000	4.954
94 4-Nitroaniline	138	8.552	8.552	(1.099)	8471	5.00000	4.440
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	2511	5.00000	3.556
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	29929	5.86000	5.706
100 Azobenzene	77	8.697	8.697	(0.889)	38806	5.00000	5.012
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	8256	5.00000	5.059
108 Hexachlorobenzene	284	9.350	9.350	(0.956)	9591	5.00000	5.224
110 Pentachlorophenol	266	9.609	9.609	(0.982)	4013	5.00000	4.337
114 Phenanthrene	178	9.816	9.816	(1.003)	56209	5.00000	5.134
115 Anthracene	178	9.888	9.888	(1.011)	50515	5.00000	4.817
118 Carbazole	167	10.147	10.147	(1.037)	48074	5.00000	4.890
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	53871	5.00000	4.644
126 Fluoranthene	202	11.723	11.723	(1.198)	42848	5.00000	4.741
127 Benzidine	184	11.982	11.982	(0.842)	22464	5.00000	4.330
128 Pyrene	202	12.085	12.085	(0.849)	49756	5.00000	5.057
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	17811	5.00000	4.075
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	18944	5.00000	4.346
138 Benzo(a)Anthracene	228	14.199	14.199	(0.998)	38587	5.00000	4.798
139 Chrysene	228	14.272	14.272	(1.003)	45396	5.00000	5.185
140 3,3'-Dichlorobenzidine	252	14.231	14.231	(1.000)	10746	5.00000	4.262
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	27889	5.00000	4.447
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	35902	5.00000	4.074
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	29598	5.00000	4.621
145 Benzo(k)fluoranthene	252	16.075	16.075	(0.966)	42002	5.00000	4.989
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	34292	5.00000	4.894
148 Benzo(a)pyrene	252	16.541	16.541	(0.994)	36988	5.00000	4.930
151 Indeno(1,2,3-cd)pyrene	276	18.417	18.417	(1.107)	35473	5.00000	5.336
152 Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	30176	5.00000	4.660
153 Benzo(g,h,i)perylene	276	18.904	18.904	(1.136)	34489	5.00000	4.900

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				71600	5.00000	4.830(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: HSL0817A.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\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	98721	-21.84
2 Naphthalene-d8	544958	272479	1089916	432773	-20.59
3 Acenaphthene-d10	283970	141985	567940	218174	-23.17
4 Phenanthrene-d10	451801	225901	903602	348361	-22.90
5 Chrysene-d12	438936	219468	877872	318719	-27.39
6 Perylene-d12	413868	206934	827736	305118	-26.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

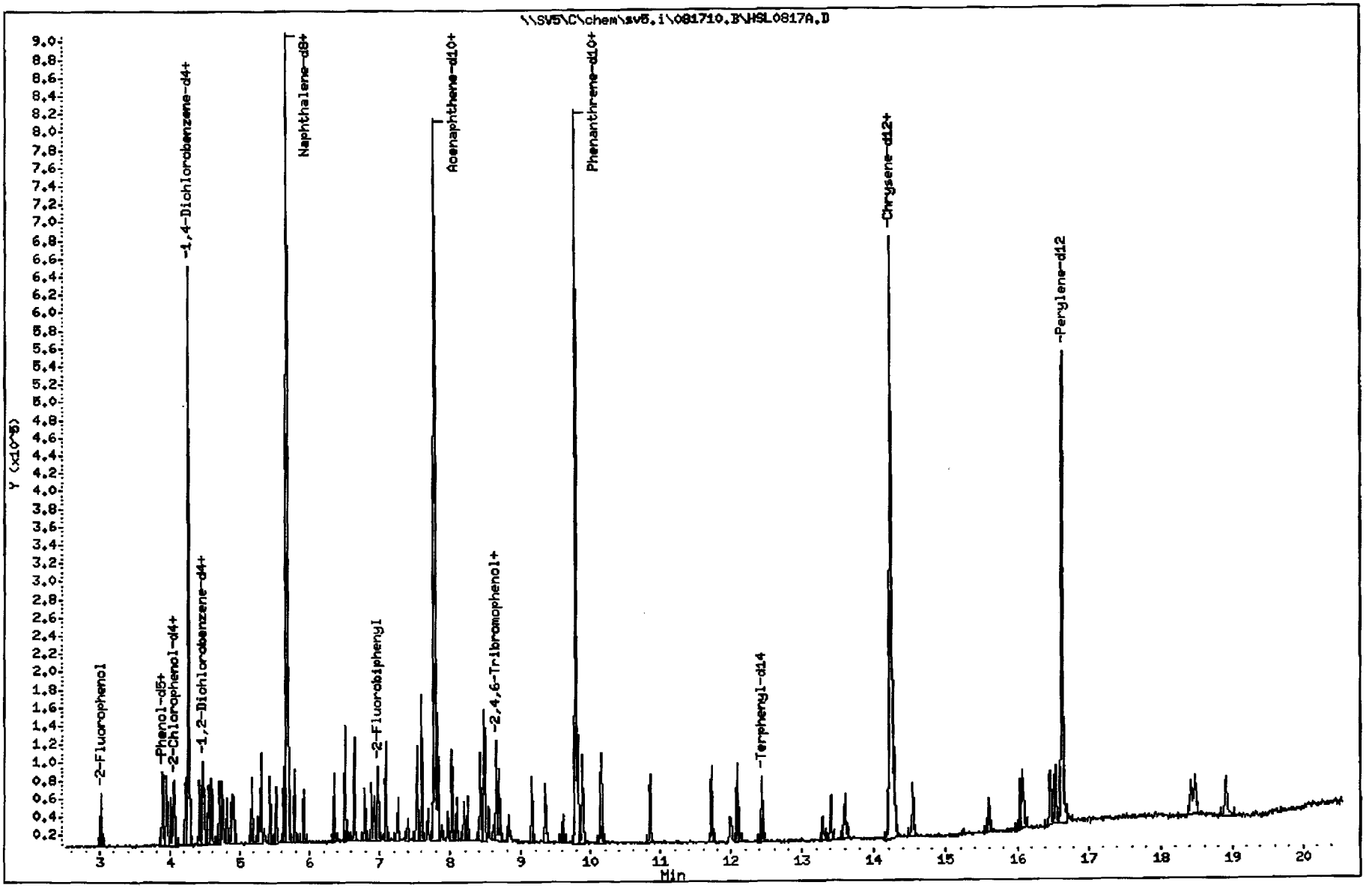
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817A.D
Date : 17-AUG-2010 17:58
Client ID: 8270F.M
Sample Info: HSL_005 ug/ml CS-1;1;;1;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817B.D
Lab Smp Id: HSL_010 ug/ml CS-2 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 18:23
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 3 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	4.251	4.251	(1.000)	149516	40.0000	(q)
*	2 Naphthalene-d8	136	5.671	5.671	(1.000)	657838	40.0000	
*	3 Acenaphthene-d10	164	7.795	7.785	(1.000)	348445	40.0000	
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	533542	40.0000	
*	5 Chrysene-d12	240	14.230	14.230	(1.000)	504489	40.0000	
*	6 Perylene-d12	264	16.635	16.635	(1.000)	470780	40.0000	
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	55622	10.0000	10.13
$	8 Phenol-d5	99	3.888	3.888	(0.915)	66973	10.0000	9.487
$	9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	59512	10.0000	10.11
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	37184	10.0000	10.08
$	11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	57594	10.0000	10.06(M)
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	107747	10.0000	9.779
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	11216	10.0000	9.036
$	14 Terphenyl-d14	244	12.438	12.438	(0.874)	96898	10.0000	9.820
	15 N-Nitrosodimethylamine	74	2.002	1.992	(0.471)	38231	10.0000	10.00(q)
	16 Pyridine	79	2.033	2.023	(0.478)	66813	10.0000	10.47
	23 Aniline	93	3.950	3.950	(0.929)	90600	10.0000	10.05
	24 Phenol	94	3.898	3.899	(0.917)	75618	10.0000	10.10
	26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	61431	10.0000	10.51
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	58742	10.0000	9.937
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	66844	10.0000	10.26
	29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	67727	10.0000	10.14
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	39077	10.0000	9.812
	31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	61919	10.0000	10.07
	32 2-Methylphenol	108	4.541	4.541	(1.068)	55780	10.0000	9.931
	33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	116925	10.0000	9.964
	34 4-Methylphenol	108	4.696	4.696	(1.105)	55673	10.0000	9.494(q)
	36 Hexachloroethane	117	4.800	4.800	(1.129)	22247	10.0000	9.780
	37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	40660	10.0000	9.694
	42 Nitrobenzene	77	4.904	4.904	(0.865)	55957	10.0000	9.723
	44 Isophorone	82	5.163	5.163	(0.910)	113381	10.0000	10.01
	45 2-Nitrophenol	139	5.266	5.266	(0.929)	24261	10.0000	8.716
	46 2,4-Dimethyphenol	107	5.297	5.298	(0.934)	58849	10.0000	9.907

9/18/10

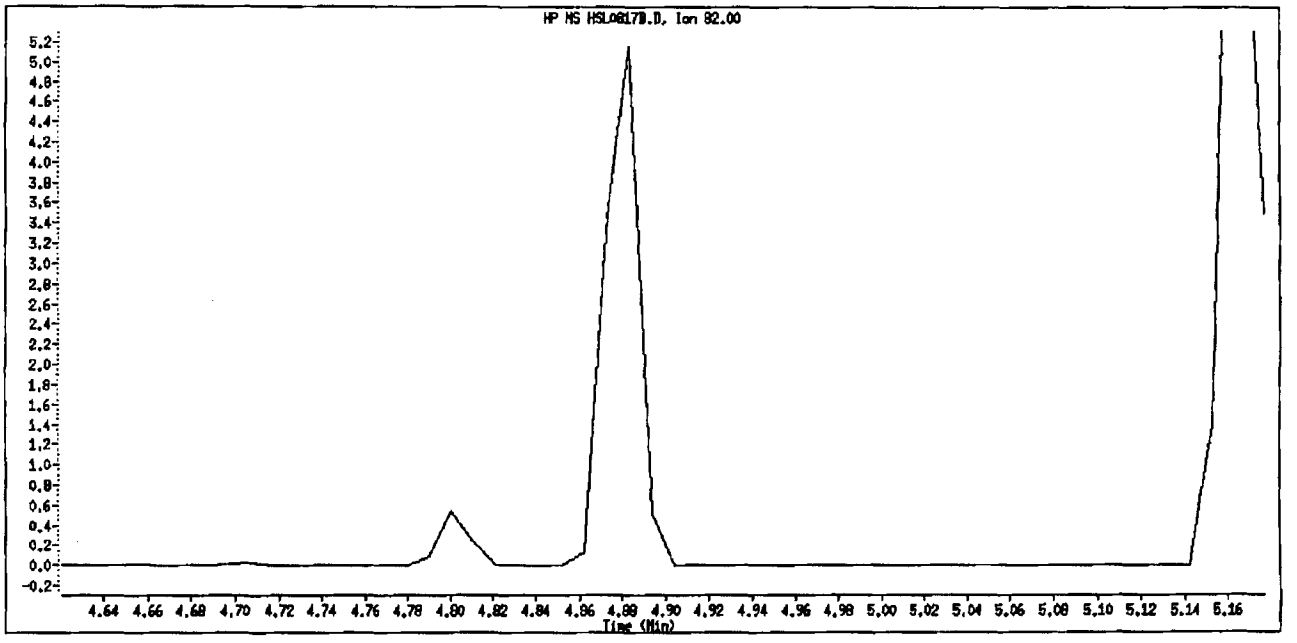
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	66039	10.0000	9.943(M)
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	40874	10.0000	9.830
50	Benzoic Acid	122	5.360	5.380	(0.945)	19485	10.0000	10.50(q)
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	47648	10.0000	10.23
52	Naphthalene	128	5.691	5.691	(1.004)	188506	10.0000	10.15(M)
54	4-Chloroaniline	127	5.785	5.785	(1.020)	72590	10.0000	10.00
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	21027	10.0000	9.713
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	46843	10.0000	9.469
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	113953	10.0000	10.06
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	20603	10.0000	8.764
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	23759	10.0000	9.144
70	2,4,5-Trichlorphenol	196	6.924	6.925	(0.888)	25902	10.0000	9.212
71	2-Chloronaphthalene	162	7.090	7.090	(0.910)	99120	10.0000	10.12
73	2-Nitroaniline	65	7.256	7.256	(0.931)	27255	10.0000	9.041(q)
76	Dimethylphthalate	163	7.526	7.526	(0.965)	112474	10.0000	9.836
77	Acenaphthylene	152	7.598	7.598	(0.975)	168283	10.0000	9.853(H)
79	2,6-Dinitrotoluene	165	7.608	7.608	(0.976)	22183	10.0000	9.162(M)
80	3-Nitroaniline	138	7.764	7.764	(0.996)	28910	10.0000	9.008(Q)
81	Acenaphthene	153	7.826	7.826	(1.004)	110312	10.0000	10.05
82	2,4-Dinitrophenol	184	7.888	7.888	(1.012)	6865	10.0000	10.40(q)
83	Dibenzofuran	168	8.033	8.033	(1.031)	141038	10.0000	9.790
84	4-Nitrophenol	109	7.961	7.971	(1.021)	12625	10.0000	8.948
86	2,4-Dinitrotoluene	165	8.085	8.085	(1.037)	25152	10.0000	11.48(QMH)
91	Fluorene	166	8.479	8.479	(1.088)	114665	10.0000	9.784
92	Diethylphthalate	149	8.427	8.427	(1.081)	118938	10.0000	9.726
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	47086	10.0000	9.815
94	4-Nitroaniline	138	8.551	8.552	(1.097)	27638	10.0000	8.825
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	9641	10.0000	10.94
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	93361	11.7000	11.47
100	Azobenzene	77	8.697	8.697	(0.889)	120677	10.0000	9.956
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	25230	10.0000	10.04
108	Hexachlorobenzene	284	9.349	9.349	(0.956)	28280	10.0000	10.24
110	Pentachlorophenol	266	9.608	9.609	(0.982)	13163	10.0000	8.604
114	Phenanthrene	178	9.816	9.816	(1.003)	170539	10.0000	10.14
115	Anthracene	178	9.888	9.888	(1.011)	162131	10.0000	9.804
118	Carbazole	167	10.147	10.147	(1.037)	152790	10.0000	9.890
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	172475	10.0000	9.341
126	Fluoranthene	202	11.723	11.723	(1.198)	142486	10.0000	9.807
127	Benzidine	184	11.992	11.992	(0.843)	78032	10.0000	10.75
128	Pyrene	202	12.085	12.085	(0.849)	157283	10.0000	9.756
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	67457	10.0000	10.82
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	70385	10.0000	9.054
138	Benzo(a)Anthracene	228	14.199	14.199	(0.998)	123242	10.0000	9.381
139	Chrysene	228	14.272	14.272	(1.003)	142308	10.0000	10.19
140	3,3'-Dichlorobenzidine	252	14.230	14.241	(1.000)	39969	10.0000	8.969
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	98013	10.0000	9.143
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	126734	10.0000	10.18
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	123863	10.0000	11.46(M)
145	Benzo(k)fluoranthene	252	16.075	16.085	(0.966)	130468	10.0000	9.640(M)
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	107088	10.0000	9.649
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	111432	10.0000	9.329
151	Indeno(1,2,3-cd)pyrene	276	18.417	18.428	(1.107)	84239	10.0000	8.950(Q)
152	Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	98646	10.0000	9.352
153	Benzo(g,h,i)perylene	276	18.904	18.915	(1.136)	101992	10.0000	9.084

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				254331	10.0000	10.45(A)

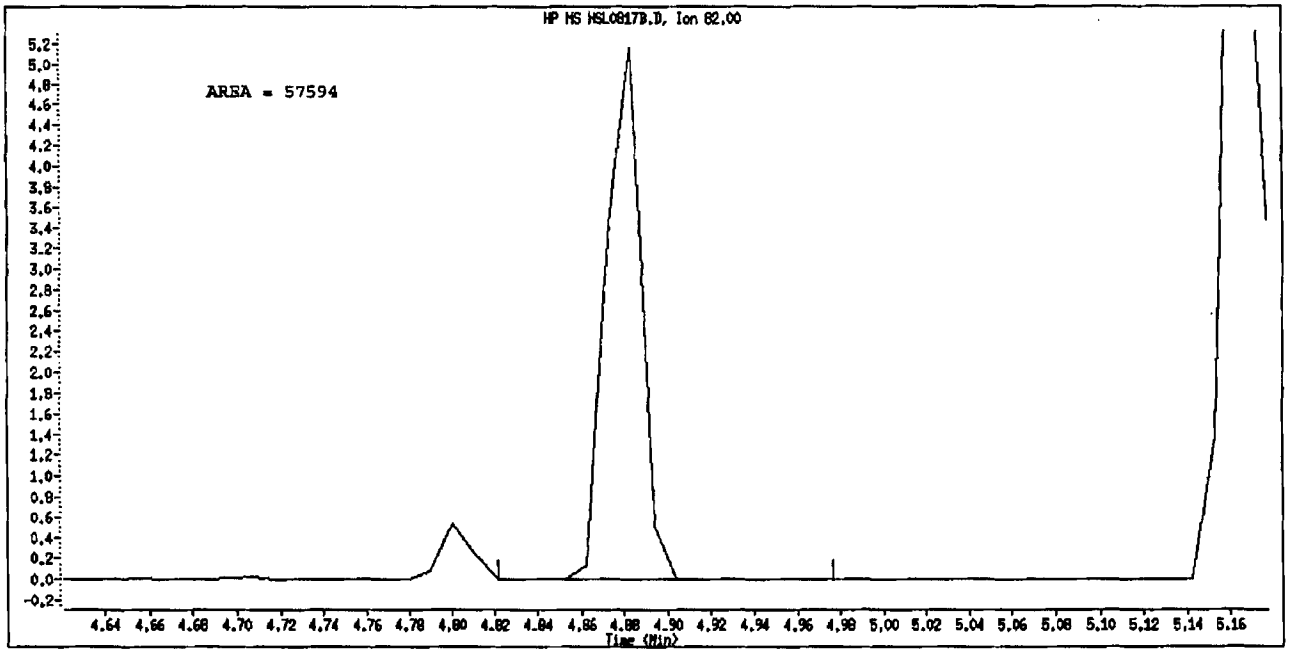
QC Flag Legend

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

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 08/18/2010



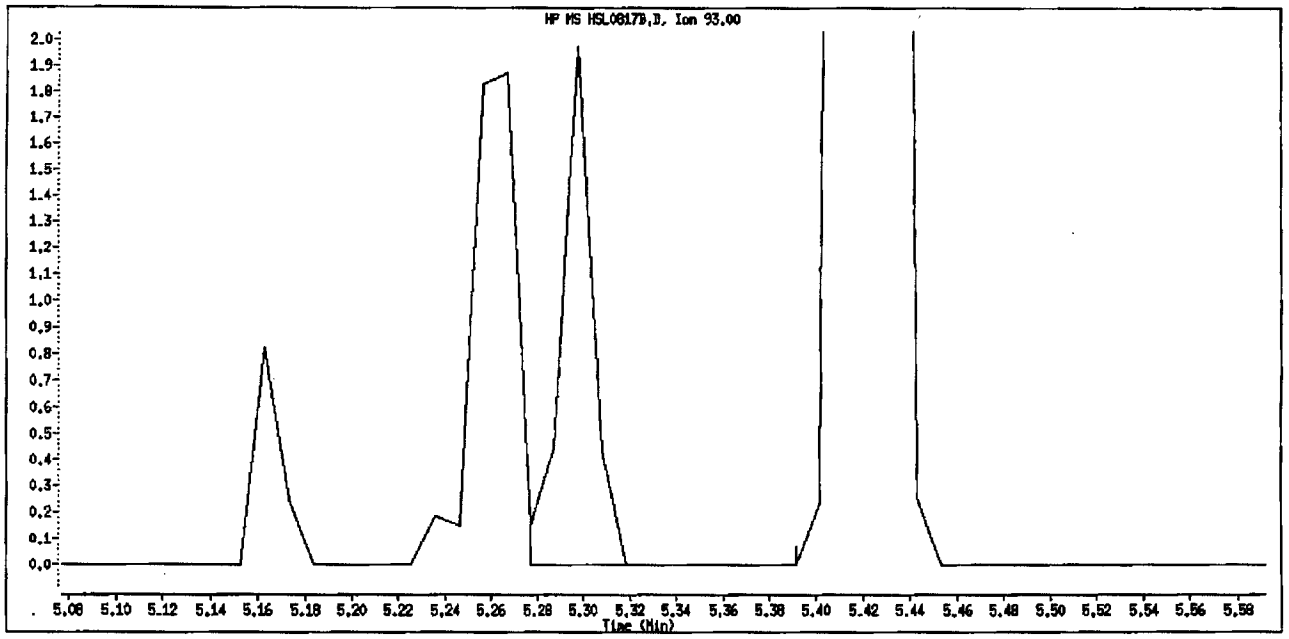
Original Integration



Manual Integration

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

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Bis(2-chloroethoxy)methane
CAS #: 111-91-1
Report Date: 08/18/2010



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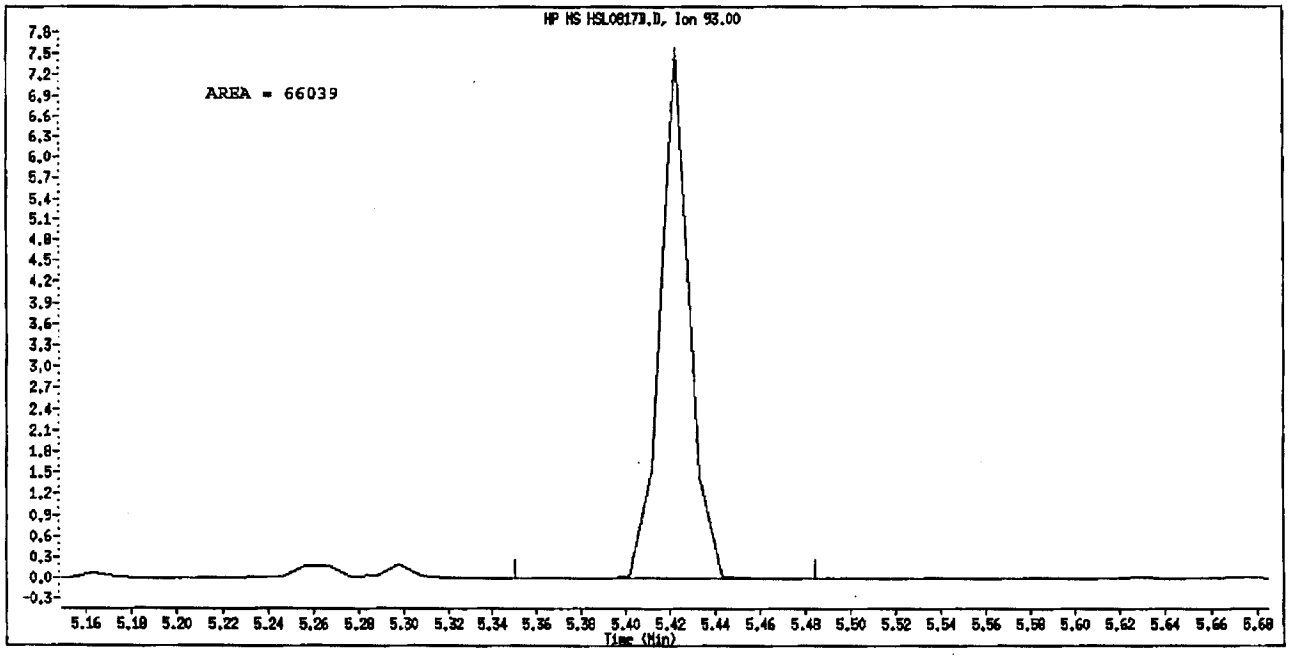
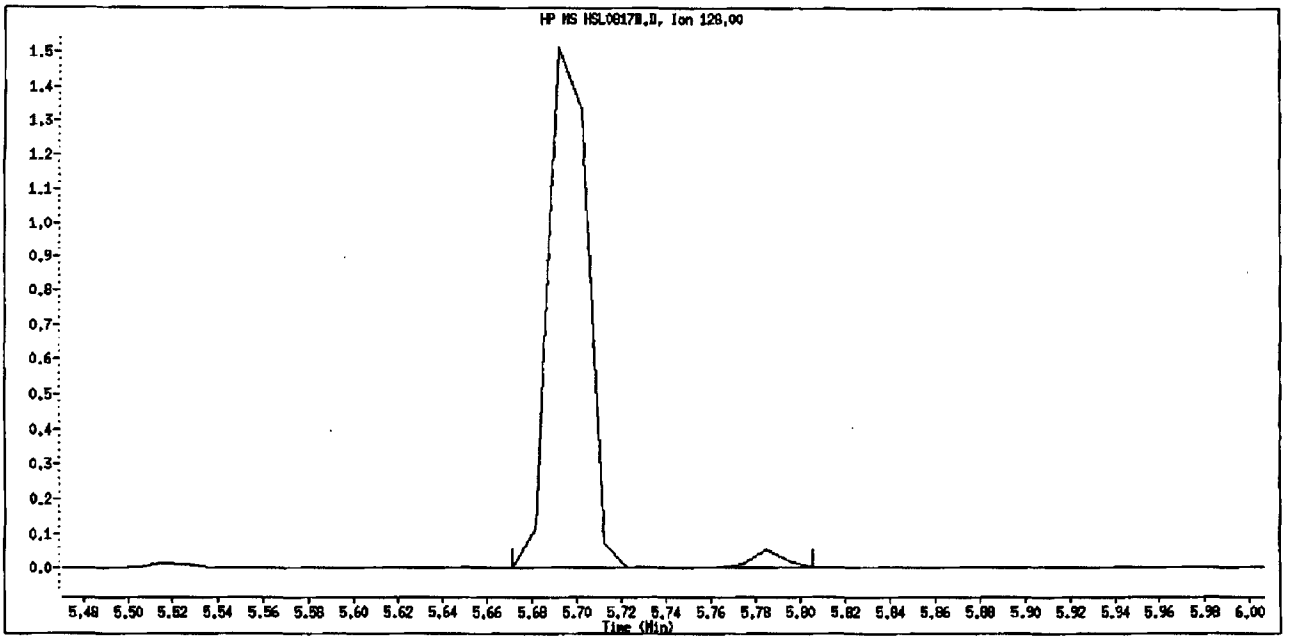


Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Naphthalene
CAS #: 91-20-3
Report Date: 08/18/2010



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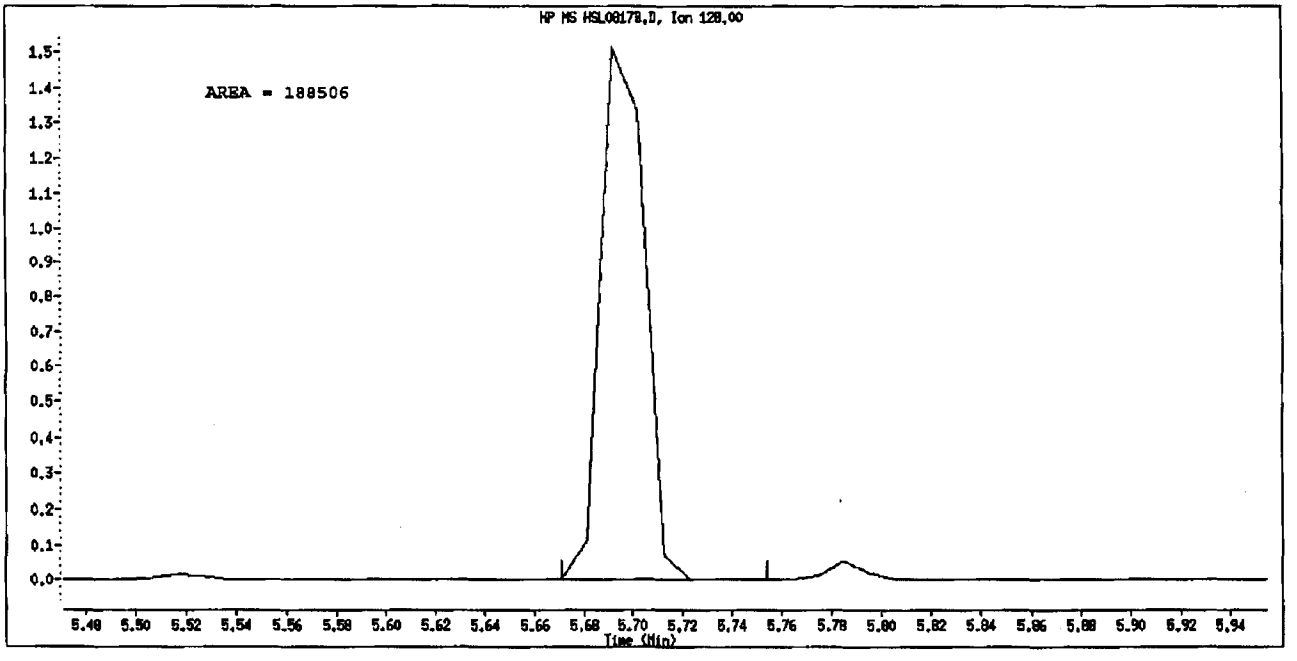

Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0817B.D
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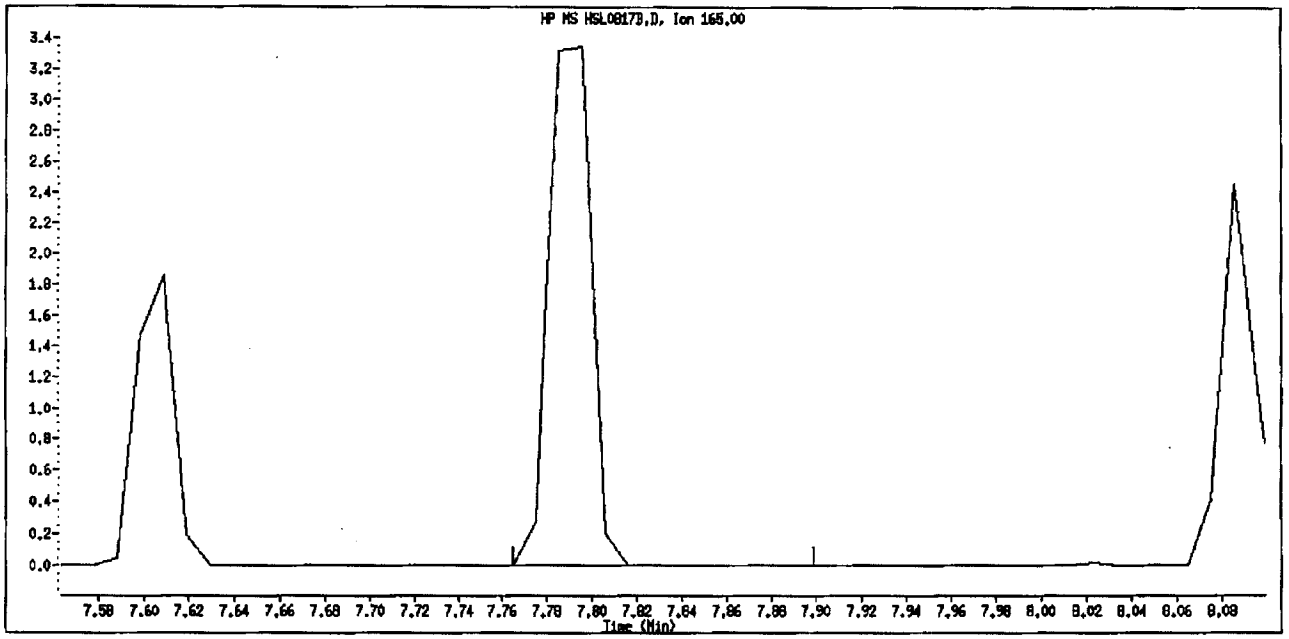
Instrument ID: sv5.i
Client ID: 6270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 08/18/2010



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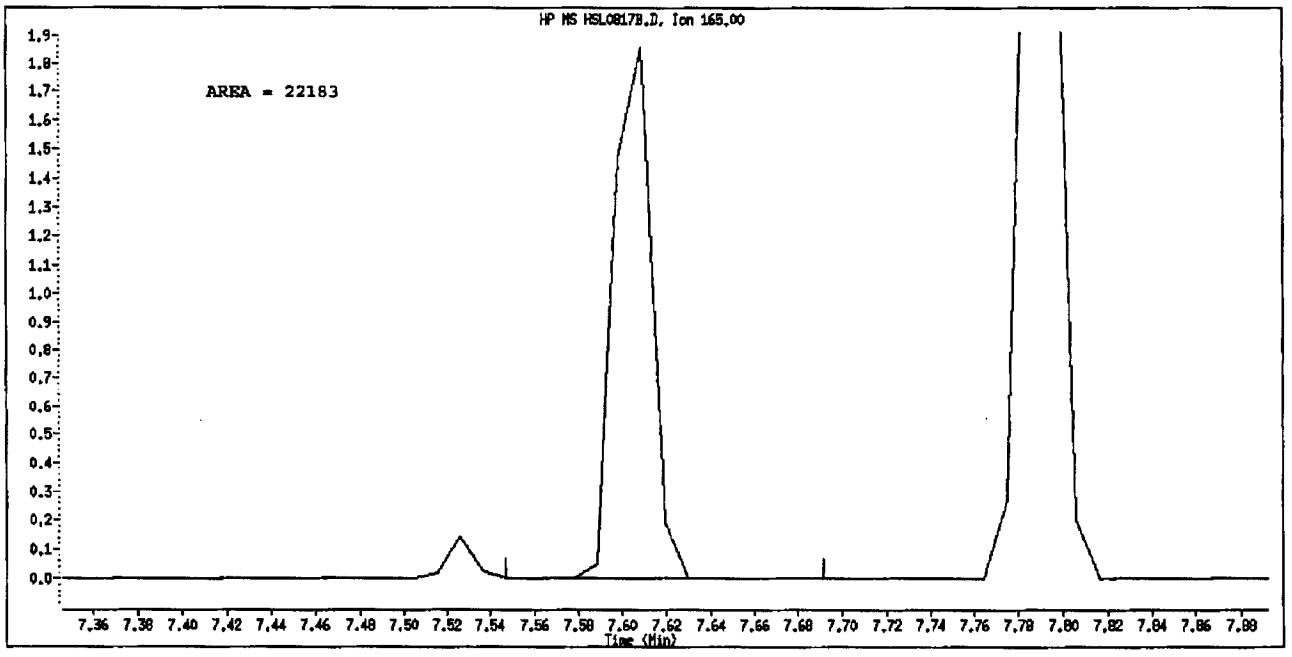
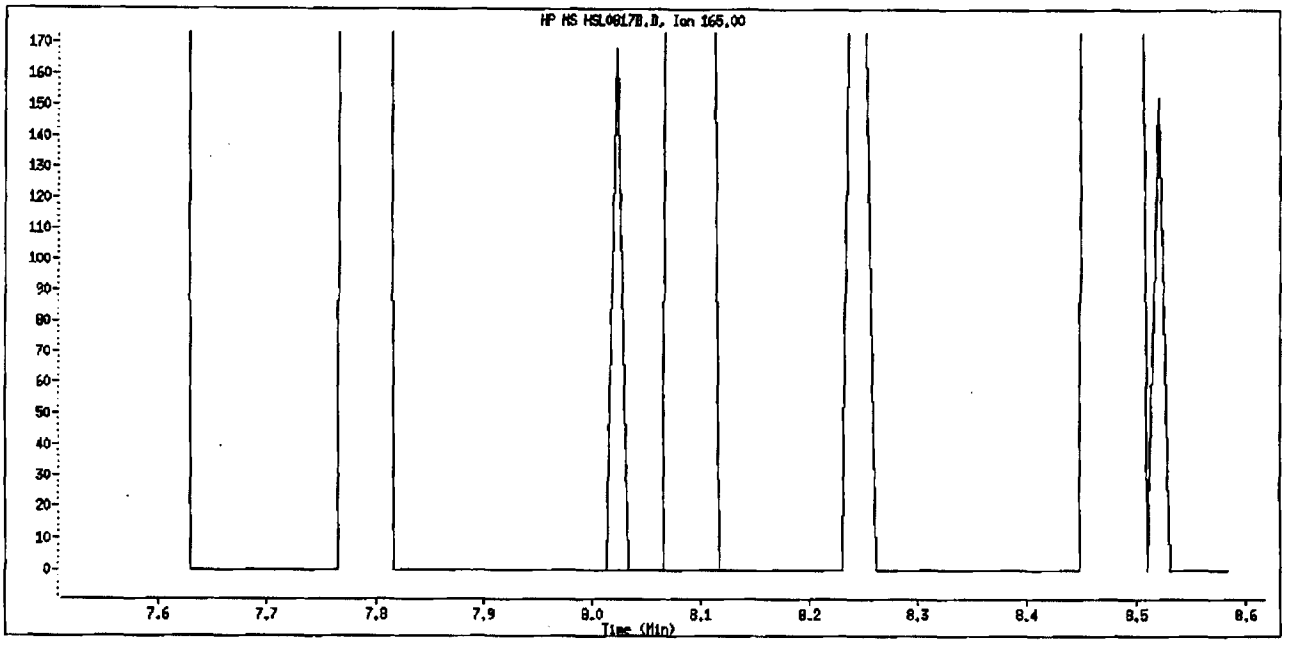


Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,4-Dinitrotoluene
CAS #: 121-14-2
Report Date: 08/18/2010



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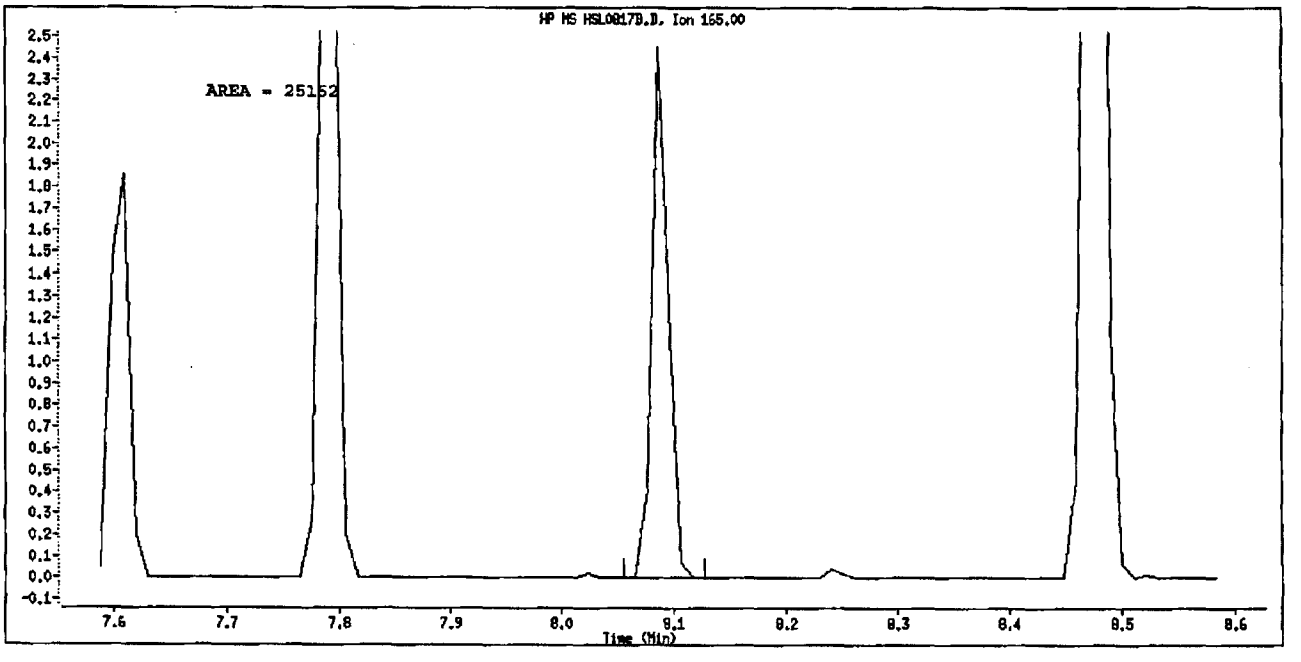
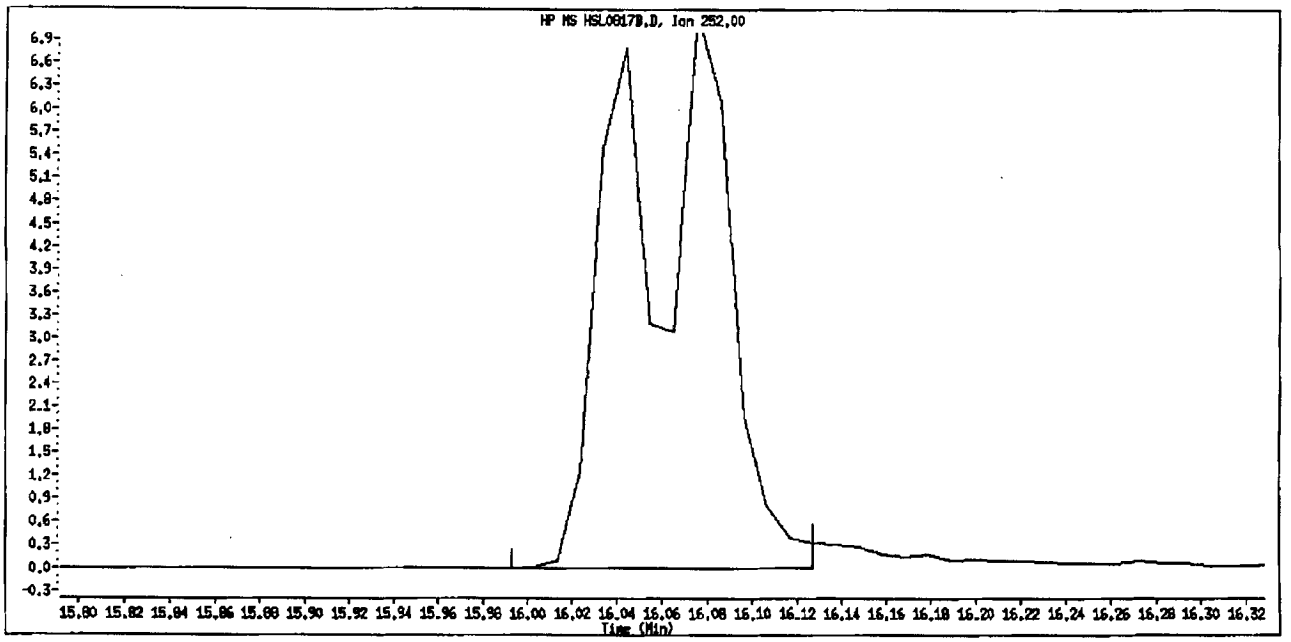


Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 08/18/2010



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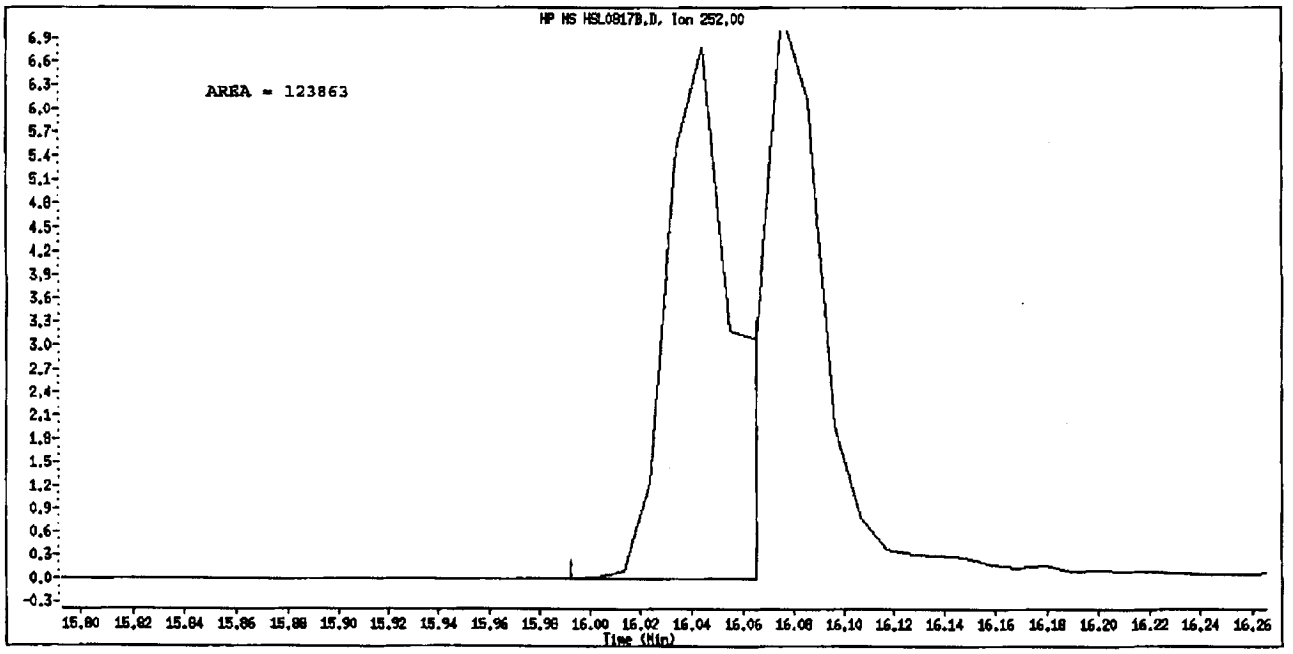
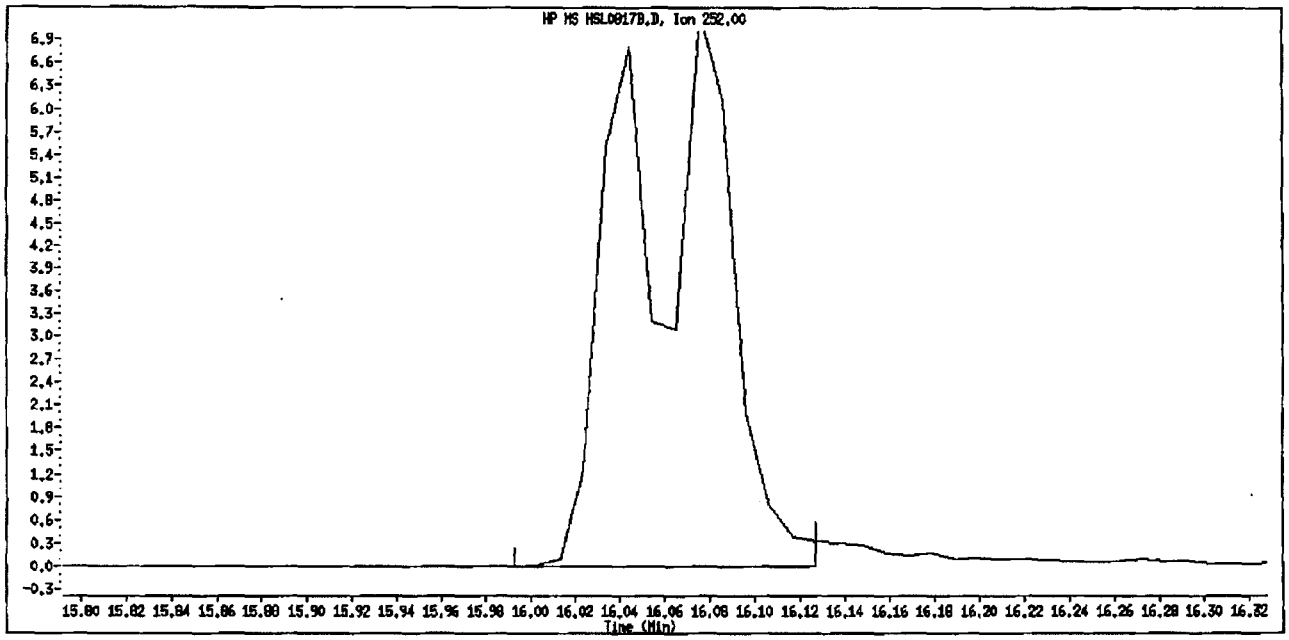


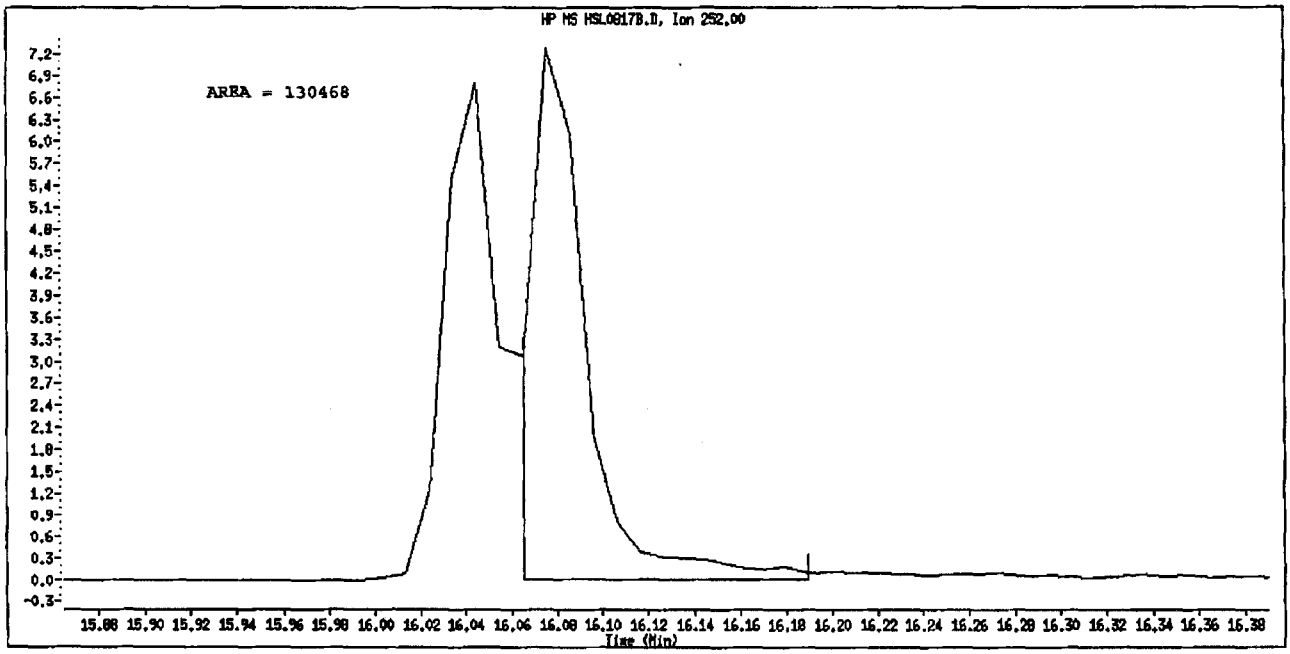
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0817B.D
Inj. Date and Time: 17-AUG-2010 18:23
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 08/18/2010



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\081710.B\HSL0817B.D
Lab Smp Id: HSL_010 ug/ml CS-2 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 18:23
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 18:23 Cal File: HSL0817B.D
Als bottle: 3 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)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	149516	40.0000	
*	2 Naphthalene-d8	136	5.671	5.671	(1.000)	657838	40.0000	
*	3 Acenaphthene-d10	164	7.795	7.795	(1.000)	348445	40.0000	
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	533542	40.0000	
*	5 Chrysene-d12	240	14.230	14.230	(1.000)	504489	40.0000	
*	6 Perylene-d12	264	16.635	16.635	(1.000)	470780	40.0000	
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	55622	10.0000	10.25
$	8 Phenol-d5	99	3.888	3.888	(0.915)	66973	10.0000	9.783
$	9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	59512	10.0000	10.39
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	37184	10.0000	10.08
$	11 Nitrobenzene-d5	82	Compound Not Detected.					
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	107747	10.0000	9.927
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	11216	10.0000	10.03
$	14 Terphenyl-d14	244	12.438	12.438	(0.874)	96898	10.0000	10.16
	15 N-Nitrosodimethylamine	74	2.002	2.002	(0.471)	38231	10.0000	10.12
	16 Pyridine	79	2.033	2.033	(0.478)	66813	10.0000	10.20
	23 Aniline	93	3.950	3.950	(0.929)	90600	10.0000	10.14
	24 Phenol	94	3.898	3.898	(0.917)	75618	10.0000	10.38
	26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	61431	10.0000	10.42
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	58742	10.0000	10.06
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	65844	10.0000	10.22
	29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	67727	10.0000	10.16
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	39077	10.0000	10.13
	31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	61919	10.0000	10.14
	32 2-Methylphenol	108	4.541	4.541	(1.068)	55780	10.0000	10.16
	33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	116925	10.0000	10.01
	34 4-Methylphenol	108	4.696	4.696	(1.105)	55673	10.0000	9.793
	36 Hexachloroethane	117	4.800	4.800	(1.129)	22247	10.0000	9.924
	37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	40660	10.0000	9.971
	42 Nitrobenzene	77	4.904	4.904	(0.865)	55957	10.0000	9.863
	44 Isophorone	82	5.163	5.163	(0.910)	113381	10.0000	10.19
	45 2-Nitrophenol	139	5.266	5.266	(0.929)	24261	10.0000	9.528
	46 2,4-Dimethyphenol	107	5.297	5.297	(0.934)	58849	10.0000	10.00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.297	5.297	(0.934)	1821	10.0000	0.4073
49 2,4-Dichlorophenol	162	5.515	5.515	(0.973)	40874	10.0000	9.750
50 Benzoic Acid	122	5.360	5.360	(0.945)	19485	10.0000	8.336
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	47648	10.0000	10.14
52 Naphthalene	128	5.691	5.691	(1.004)	193501	10.0000	10.16
54 4-Chloroaniline	127	5.785	5.785	(1.020)	72590	10.0000	9.964
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	21027	10.0000	9.615
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	46843	10.0000	9.797
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	113953	10.0000	10.15
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	20603	10.0000	9.249
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	23759	10.0000	9.373
70 2,4,5-Trichlorphenol	196	6.924	6.924	(0.888)	25902	10.0000	9.652
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	99120	10.0000	10.06
73 2-Nitroaniline	65	7.256	7.256	(0.931)	27255	10.0000	9.807
76 Dimethylphthalate	163	7.526	7.526	(0.965)	112474	10.0000	9.952
77 Acenaphthylene	152	7.826	7.826	(1.004)	52241	10.0000	5.600
79 2,6-Dinitrotoluene	165	7.795	7.795	(1.000)	44430	10.0000	8.466
80 3-Nitroaniline	138	7.764	7.764	(0.996)	28910	10.0000	9.442
81 Acenaphthene	153	7.826	7.826	(1.004)	110312	10.0000	9.897
82 2,4-Dinitrophenol	184	7.888	7.888	(1.012)	6865	10.0000	8.542
83 Dibenzofuran	168	8.033	8.033	(1.031)	141038	10.0000	9.723
84 4-Nitrophenol	109	7.961	7.961	(1.021)	12625	10.0000	9.602
86 2,4-Dinitrotoluene	165	7.795	7.795	(1.000)	44430	10.0000	8.137
91 Fluorene	166	8.479	8.479	(1.088)	114665	10.0000	9.701
92 Diethylphthalate	149	8.427	8.427	(1.081)	118938	10.0000	9.348
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	47086	10.0000	9.790
94 4-Nitroaniline	138	8.551	8.551	(1.097)	27638	10.0000	9.361
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	9641	10.0000	9.250
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	93361	11.7000	11.65
100 Azobenzene	77	8.697	8.697	(0.889)	120677	10.0000	10.12
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	25230	10.0000	10.06
108 Hexachlorobenzene	284	9.349	9.349	(0.956)	28280	10.0000	10.04
110 Pentachlorophenol	266	9.608	9.608	(0.982)	13163	10.0000	9.514
114 Phenanthrene	178	9.816	9.816	(1.003)	170539	10.0000	10.11
115 Anthracene	178	9.888	9.888	(1.011)	162131	10.0000	10.06
118 Carbazole	167	10.147	10.147	(1.037)	152790	10.0000	10.10
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	172475	10.0000	9.803
126 Fluoranthene	202	11.723	11.723	(1.198)	142486	10.0000	10.19
127 Benzidine	184	11.992	11.992	(0.843)	78032	10.0000	9.663
128 Pyrene	202	12.085	12.085	(0.849)	157283	10.0000	10.07
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	67457	10.0000	9.833
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	70385	10.0000	10.13
138 Benzo(a)Anthracene	228	14.199	14.199	(0.998)	123242	10.0000	9.785
139 Chrysene	228	14.272	14.272	(1.003)	142308	10.0000	10.18
140 3,3'-Dichlorobenzidine	252	14.230	14.230	(1.000)	39969	10.0000	10.01
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	98013	10.0000	9.916
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	126734	10.0000	9.371
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	227623	10.0000	16.06
145 Benzo(k)fluoranthene	252	16.044	16.044	(0.964)	227620	10.0000	14.01
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	107088	10.0000	9.937
148 Benzo(a)pyrene	252	16.541	16.541	(0.994)	111432	10.0000	9.748
151 Indeno(1,2,3-cd)pyrene	276	18.417	18.417	(1.107)	84239	10.0000	8.734
152 Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	98646	10.0000	9.915
153 Benzo(g,h,i)perylene	276	18.904	18.904	(1.136)	101992	10.0000	9.586

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				455243	10.0000	14.96(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: HSL0817B.D
Lab Smp Id: HSL_010 ug/ml CS-2
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	149516	18.38
2 Naphthalene-d8	544958	272479	1089916	657838	20.71
3 Acenaphthene-d10	283970	141985	567940	348445	22.70
4 Phenanthrene-d10	451801	225901	903602	533542	18.09
5 Chrysene-d12	438936	219468	877872	504489	14.93
6 Perylene-d12	413868	206934	827736	470780	13.75

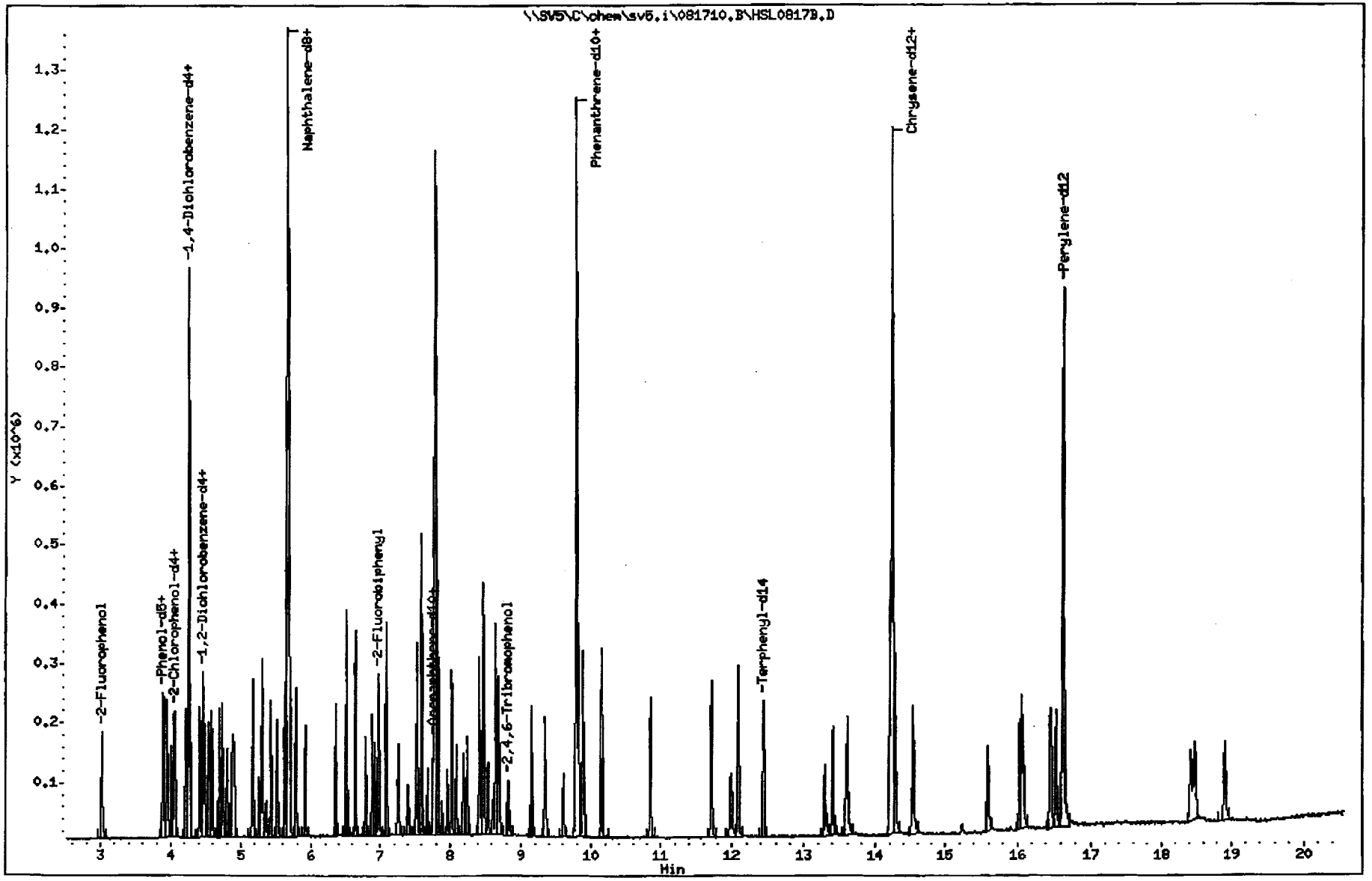
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	-0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

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

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817B.D
Date : 17-AUG-2010 18:23
Client ID: 8270F.H
Sample Info: HSL_010 ug/ml CS-2;1;;2;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817C.D
Lab Smp Id: HSL_020 ug/ml CS-3 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 18:49
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 4 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)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	118705	40.0000	
* 2 Naphthalene-d8	136	5.671	5.671	(1.000)	529649	40.0000	
* 3 Acenaphthene-d10	164	7.785	7.785	(1.000)	276105	40.0000	
* 4 Phenanthrene-d10	188	9.785	9.785	(1.000)	426548	40.0000	
* 5 Chrysene-d12	240	14.231	14.230	(1.000)	404445	40.0000	
* 6 Perylene-d12	264	16.635	16.635	(1.000)	382673	40.0000	
$ 7 2-Fluorophenol	112	3.018	3.018	(0.710)	85578	20.0000	19.63
$ 8 Phenol-d5	99	3.888	3.888	(0.915)	112311	20.0000	20.04
$ 9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	94793	20.0000	20.28
$ 10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	60059	20.0000	20.50
$ 11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	87017	20.0000	18.88
$ 12 2-Fluorobiphenyl	172	6.987	6.987	(0.898)	176147	20.0000	20.18
$ 13 2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	19213	20.0000	19.54
$ 14 Terphenyl-d14	244	12.438	12.438	(0.874)	152074	20.0000	19.22
15 N-Nitrosodimethylamine	74	2.002	1.992	(0.471)	59413	20.0000	19.58 (q)
16 Pyridine	79	2.033	2.023	(0.478)	97579	20.0000	19.26
23 Aniline	93	3.950	3.950	(0.929)	142563	20.0000	19.92
24 Phenol	94	3.899	3.899	(0.917)	118869	20.0000	19.99
26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	93117	20.0000	20.06
27 2-Chlorophenol	128	4.064	4.064	(0.956)	93994	20.0000	20.03
28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	104590	20.0000	20.22
29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	107966	20.0000	20.36
30 Benzyl Alcohol	108	4.406	4.406	(1.037)	61369	20.0000	19.41
31 1,2-Dichlorobenzene	146	4.469	4.468	(1.051)	97517	20.0000	19.98
32 2-Methylphenol	108	4.531	4.541	(1.066)	88465	20.0000	19.84
33 2,2'-oxybis(1-Chloropropane)	45	4.583	4.582	(1.078)	186694	20.0000	20.04
34 4-Methylphenol	108	4.697	4.696	(1.105)	91054	20.0000	19.56 (q)
36 Hexachloroethane	117	4.800	4.800	(1.129)	36006	20.0000	19.94
37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	65169	20.0000	19.57
42 Nitrobenzene	77	4.904	4.904	(0.865)	88728	20.0000	19.15
44 Isophorone	82	5.163	5.163	(0.910)	177740	20.0000	19.48
45 2-Nitrophenol	139	5.266	5.266	(0.929)	40609	20.0000	18.12
46 2,4-Dimethyphenol	107	5.298	5.298	(0.934)	93167	20.0000	19.48

8/18/10

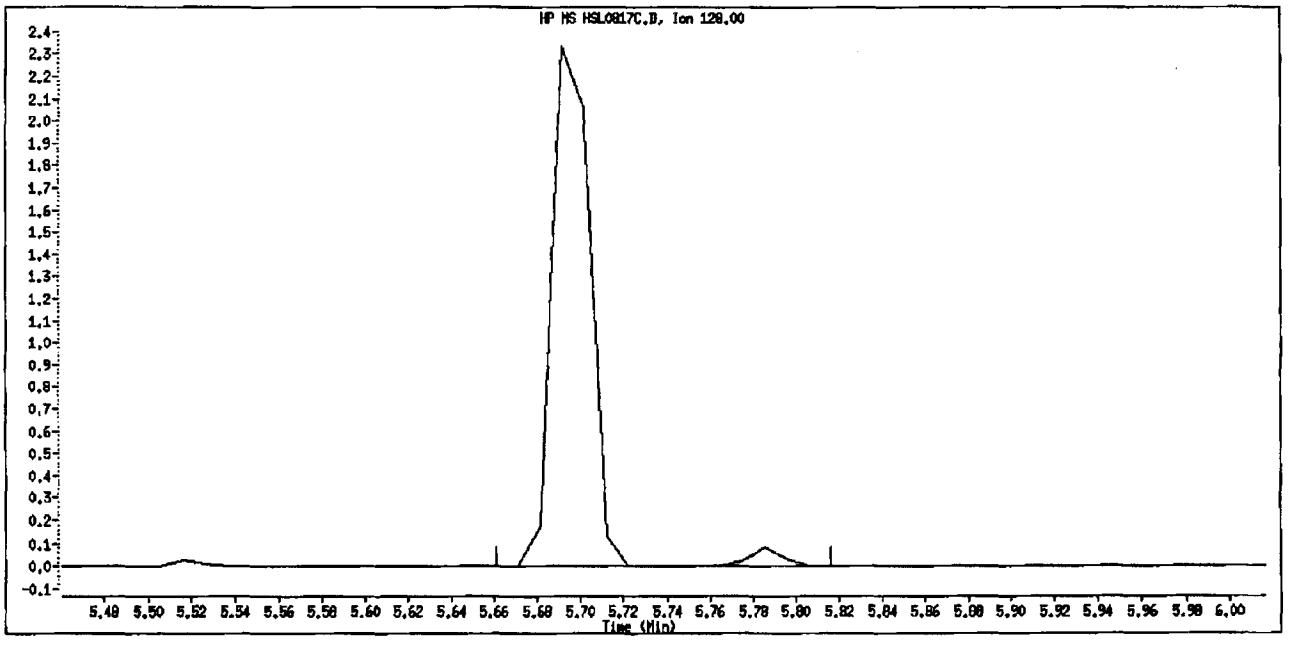
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	104625	20.0000	19.56(H)
49 2,4-Dichlorophenol	162	5.515	5.515	(0.973)	67380	20.0000	20.13
50 Benzoic Acid	122	5.360	5.380	(0.945)	31703	20.0000	17.54
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	75071	20.0000	20.02
52 Naphthalene	128	5.691	5.691	(1.004)	292281	20.0000	19.56(M)
54 4-Chloroaniline	127	5.785	5.785	(1.020)	113231	20.0000	19.38
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	33823	20.0000	19.40
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	74782	20.0000	18.77
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	181395	20.0000	19.88
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	33936	20.0000	18.22
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	39441	20.0000	19.16
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	43323	20.0000	19.44
71 2-Chloronaphthalene	162	7.090	7.090	(0.911)	154330	20.0000	19.88
73 2-Nitroaniline	65	7.256	7.256	(0.932)	43706	20.0000	18.30
76 Dimethylphthalate	163	7.526	7.526	(0.967)	181230	20.0000	20.00
77 Acenaphthylene	152	7.598	7.598	(0.976)	265061	20.0000	19.58(H)
79 2,6-Dinitrotoluene	165	7.609	7.608	(0.977)	36845	20.0000	19.20(MH)
80 3-Nitroaniline	138	7.764	7.764	(0.997)	47090	20.0000	18.52(q)
81 Acenaphthene	153	7.826	7.826	(1.005)	169838	20.0000	19.53
82 2,4-Dinitrophenol	184	7.888	7.888	(1.013)	12525	20.0000	18.14
83 Dibenzofuran	168	8.023	8.033	(1.031)	224139	20.0000	19.63
84 4-Nitrophenol	109	7.961	7.971	(1.023)	20980	20.0000	18.76
86 2,4-Dinitrotoluene	165	8.085	8.085	(1.039)	43198	20.0000	19.51(H)
91 Fluorene	166	8.479	8.479	(1.089)	179270	20.0000	19.30
92 Diethylphthalate	149	8.427	8.427	(1.083)	185369	20.0000	19.13
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	75922	20.0000	19.97
94 4-Nitroaniline	138	8.552	8.552	(1.099)	46809	20.0000	18.86
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	16497	20.0000	17.81
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	148510	23.4000	22.82
100 Azobenzene	77	8.697	8.697	(0.889)	193285	20.0000	19.95
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	37886	20.0000	18.85
108 Hexachlorobenzene	284	9.350	9.349	(0.956)	43080	20.0000	19.51
110 Pentachlorophenol	266	9.609	9.609	(0.982)	22261	20.0000	18.20
114 Phenanthrene	178	9.816	9.816	(1.003)	269749	20.0000	20.07
115 Anthracene	178	9.888	9.888	(1.011)	259896	20.0000	19.66
118 Carbazole	167	10.147	10.147	(1.037)	242072	20.0000	19.60
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	268925	20.0000	18.22
126 Fluoranthene	202	11.723	11.723	(1.198)	225818	20.0000	19.44
127 Benzidine	184	11.992	11.992	(0.843)	126870	20.0000	18.76
128 Pyrene	202	12.085	12.085	(0.849)	249938	20.0000	19.34
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	106854	20.0000	18.34
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	116523	20.0000	18.70
138 Benzo(a)Anthracene	228	14.199	14.199	(0.998)	203920	20.0000	19.36
139 Chrysene	228	14.272	14.272	(1.003)	221156	20.0000	19.76
140 3,3'-Dichlorobenzidine	252	14.231	14.241	(1.000)	66376	20.0000	18.58
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	156841	20.0000	18.25
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	216028	20.0000	18.54
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	151804	20.0000	17.28(Q)
145 Benzo(k)fluoranthene	252	16.075	16.085	(0.966)	226810	20.0000	20.62(qH)
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	175995	20.0000	19.51
148 Benzo(a)pyrene	252	16.541	16.541	(0.994)	181686	20.0000	18.71
151 Indeno(1,2,3-cd)pyrene	276	18.417	18.428	(1.107)	140852	20.0000	18.41
152 Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	162604	20.0000	18.96
153 Benzo(g,h,i)perylene	276	18.904	18.915	(1.136)	180763	20.0000	19.80

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				378614	20.0000	19.14(A)

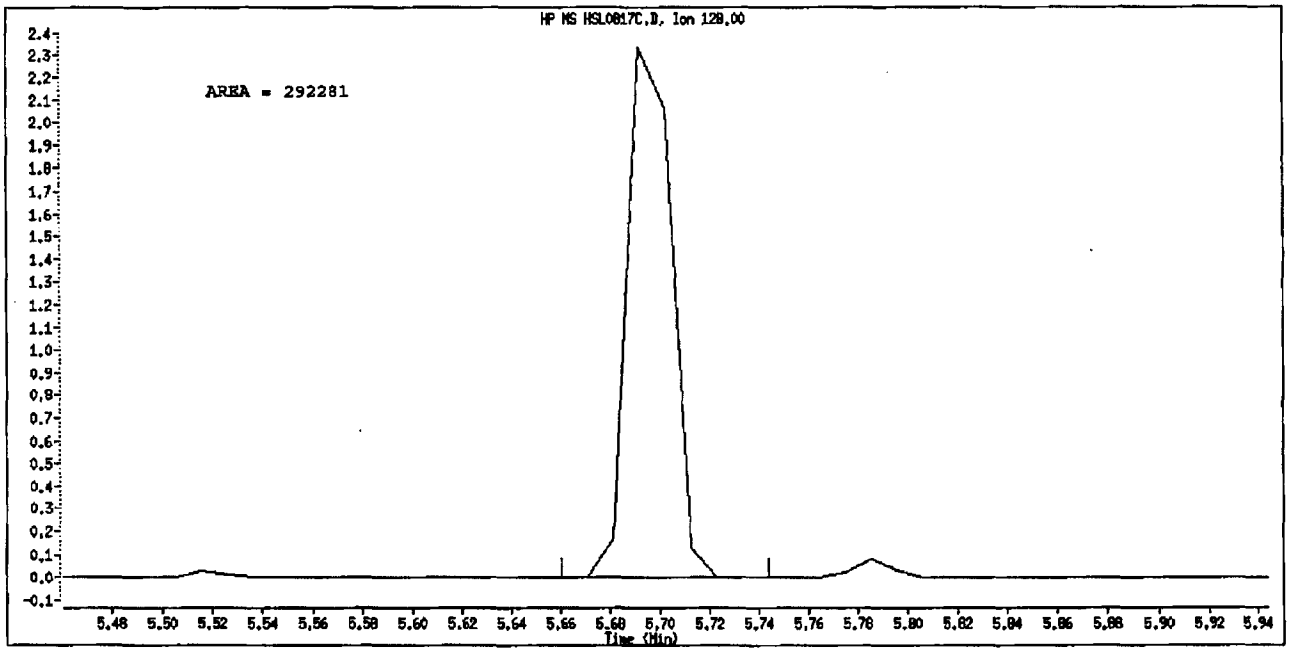
QC Flag Legend

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

Data File Name: HSL0817C.D
Inj. Date and Time: 17-AUG-2010 18:49
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Naphthalene
CAS #: 91-20-3
Report Date: 08/18/2010



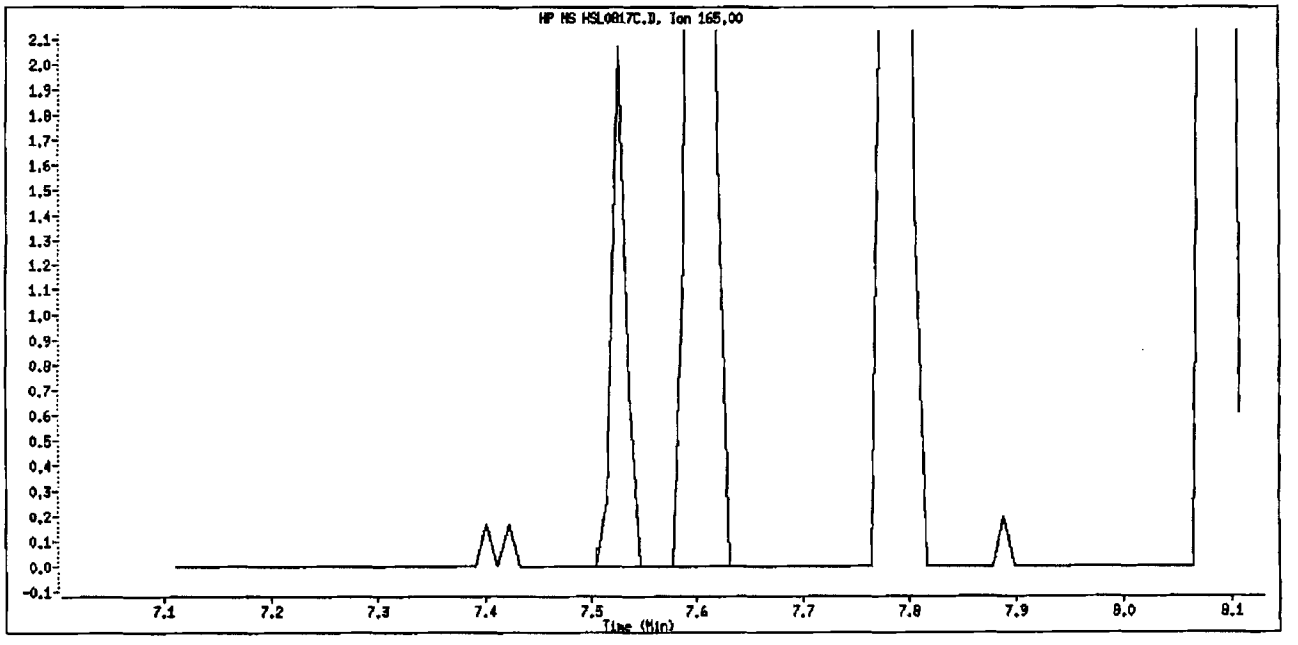
Original Integration



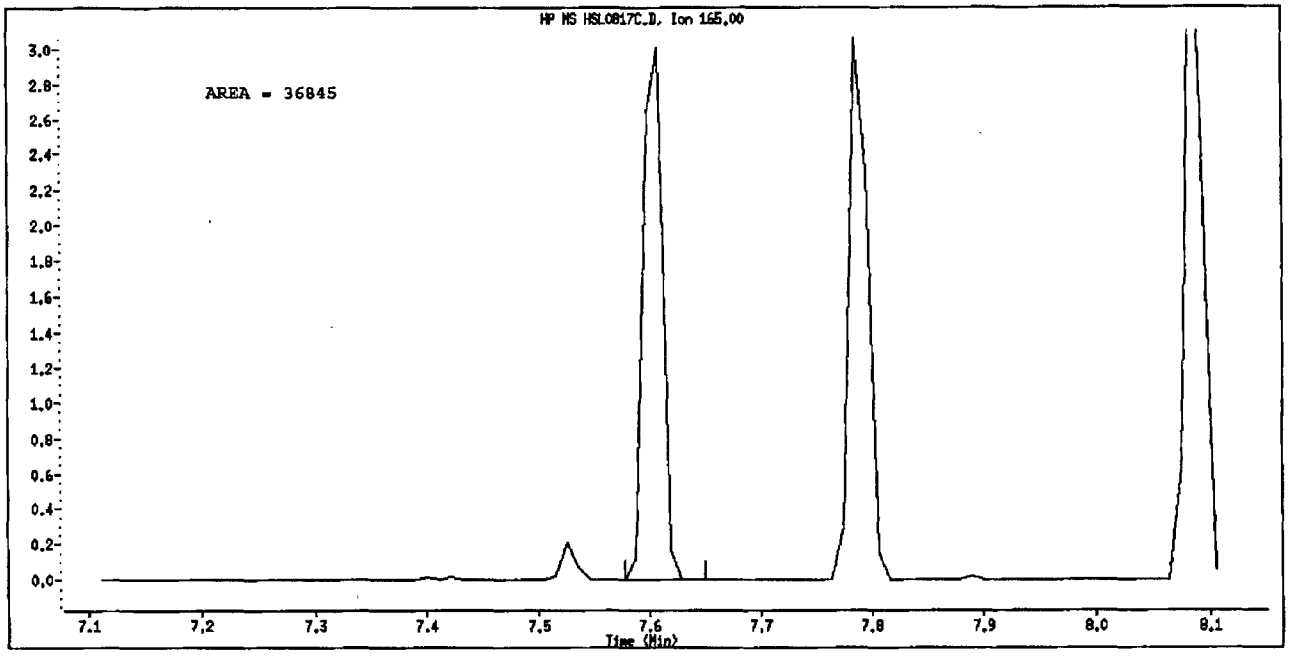
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0817C.D
Inj. Date and Time: 17-AUG-2010 18:49
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 08/18/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Lab Smp Id: HSL_020 ug/ml CS-3 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 18:49
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 18:49 Cal File: HSL0817C.D
Als bottle: 4 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	118705	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	529649	40.0000	
* 3	Acenaphthene-d10	164	7.785	7.785	(1.000)	276105	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	426548	40.0000	
* 5	Chrysene-d12	240	14.231	14.231	(1.000)	404445	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	382673	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	85578	20.0000	19.90
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	112311	20.0000	20.49
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	94793	20.0000	20.62
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	60059	20.0000	20.39
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	87017	20.0000	19.17
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.898)	176147	20.0000	20.36
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	19213	20.0000	21.24
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	152074	20.0000	19.91
15	N-Nitrosodimethylamine	74	2.002	2.002	(0.471)	59413	20.0000	19.85
16	Pyridine	79	2.033	2.033	(0.478)	97579	20.0000	19.06
23	Aniline	93	3.950	3.950	(0.929)	142563	20.0000	20.08
24	Phenol	94	3.899	3.899	(0.917)	118869	20.0000	20.41
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	93117	20.0000	19.92
27	2-Chlorophenol	128	4.064	4.064	(0.956)	93994	20.0000	20.21
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	104590	20.0000	20.10
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	107966	20.0000	20.30
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	61369	20.0000	20.02
31	1,2-Dichlorobenzene	146	4.469	4.469	(1.051)	97517	20.0000	20.09
32	2-Methylphenol	108	4.531	4.531	(1.066)	88465	20.0000	20.22
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.583	(1.078)	186694	20.0000	20.10
34	4-Methylphenol	108	4.697	4.697	(1.105)	91054	20.0000	20.13
36	Hexachloroethane	117	4.800	4.800	(1.129)	36006	20.0000	20.17
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	65169	20.0000	20.10
42	Nitrobenzene	77	4.904	4.904	(0.865)	88728	20.0000	19.56
44	Isophorone	82	5.163	5.163	(0.910)	177740	20.0000	19.88
45	2-Nitrophenol	139	5.266	5.266	(0.929)	40609	20.0000	19.86
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	93167	20.0000	19.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.298	5.298	(0.934)	3603	20.0000	1.313
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	67380	20.0000	19.97
50	Benzoic Acid	122	5.360	5.360	(0.945)	31703	20.0000	17.78
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	75071	20.0000	19.88
52	Naphthalene	128	5.691	5.691	(1.004)	300717	20.0000	19.71
54	4-Chloroaniline	127	5.785	5.785	(1.020)	113231	20.0000	19.47
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	33823	20.0000	19.40
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	74782	20.0000	19.56
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	181395	20.0000	20.05
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	33936	20.0000	19.41
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	39441	20.0000	19.72
70	2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	43323	20.0000	20.28
71	2-Chloronaphthalene	162	7.090	7.090	(0.911)	154330	20.0000	19.83
73	2-Nitroaniline	65	7.256	7.256	(0.932)	43706	20.0000	19.88
76	Dimethylphthalate	163	7.526	7.526	(0.967)	181230	20.0000	20.18
77	Acenaphthylene	152	7.826	7.826	(1.005)	80716	20.0000	12.32
79	2,6-Dinitrotoluene	165	7.785	7.785	(1.000)	36210	20.0000	10.14
80	3-Nitroaniline	138	7.764	7.764	(0.997)	47090	20.0000	19.55
81	Acenaphthene	153	7.826	7.826	(1.005)	169838	20.0000	19.42
82	2,4-Dinitrophenol	184	7.888	7.888	(1.013)	12525	20.0000	19.75
83	Dibenzofuran	168	8.023	8.023	(1.031)	224139	20.0000	19.62
84	4-Nitrophenol	109	7.961	7.961	(1.023)	20980	20.0000	20.10
86	2,4-Dinitrotoluene	165	7.785	7.785	(1.000)	36210	20.0000	9.793
91	Fluorene	166	8.479	8.479	(1.089)	179270	20.0000	19.35
92	Diethylphthalate	149	8.427	8.427	(1.083)	185369	20.0000	18.76
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	75922	20.0000	19.94
94	4-Nitroaniline	138	8.552	8.552	(1.099)	46809	20.0000	20.00
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	16497	20.0000	19.85
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	148510	23.4000	23.23
100	Azobenzene	77	8.697	8.697	(0.889)	193285	20.0000	20.20
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	37886	20.0000	19.16
108	Hexachlorobenzene	284	9.350	9.350	(0.956)	43080	20.0000	19.34
110	Pentachlorophenol	266	9.609	9.609	(0.982)	22261	20.0000	20.09
114	Phenanthrene	178	9.816	9.816	(1.003)	269749	20.0000	20.01
115	Anthracene	178	9.888	9.888	(1.011)	259896	20.0000	20.13
118	Carbazole	167	10.147	10.147	(1.037)	242072	20.0000	20.01
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	268925	20.0000	19.33
126	Fluoranthene	202	11.723	11.723	(1.198)	225818	20.0000	20.16
127	Benzidine	184	11.992	11.992	(0.843)	126870	20.0000	19.70
128	Pyrene	202	12.085	12.085	(0.849)	249938	20.0000	19.96
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	106854	20.0000	19.57
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	116523	20.0000	20.69
138	Benzo(a)Anthracene	228	14.199	14.199	(0.998)	203920	20.0000	20.14
139	Chrysene	228	14.272	14.272	(1.003)	221156	20.0000	19.80
140	3,3'-Dichlorobenzidine	252	14.231	14.231	(1.000)	66376	20.0000	20.55
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	156841	20.0000	19.84
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	216028	20.0000	19.94
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	151804	20.0000	14.40
145	Benzo(k)fluoranthene	252	16.044	16.044	(0.964)	151804	20.0000	12.86
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	175995	20.0000	20.07
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	181686	20.0000	19.66
151	Indeno(1,2,3-cd)pyrene	276	18.417	18.417	(1.107)	140852	20.0000	18.43
152	Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	162604	20.0000	20.08
153	Benzo(g,h,i)perylene	276	18.904	18.904	(1.136)	180763	20.0000	20.67

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				303608	20.0000	13.59(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: HSL0817C.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\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	118705	-6.01
2 Naphthalene-d8	544958	272479	1089916	529649	-2.81
3 Acenaphthene-d10	283970	141985	567940	276105	-2.77
4 Phenanthrene-d10	451801	225901	903602	426548	-5.59
5 Chrysene-d12	438936	219468	877872	404445	-7.86
6 Perylene-d12	413868	206934	827736	382673	-7.54

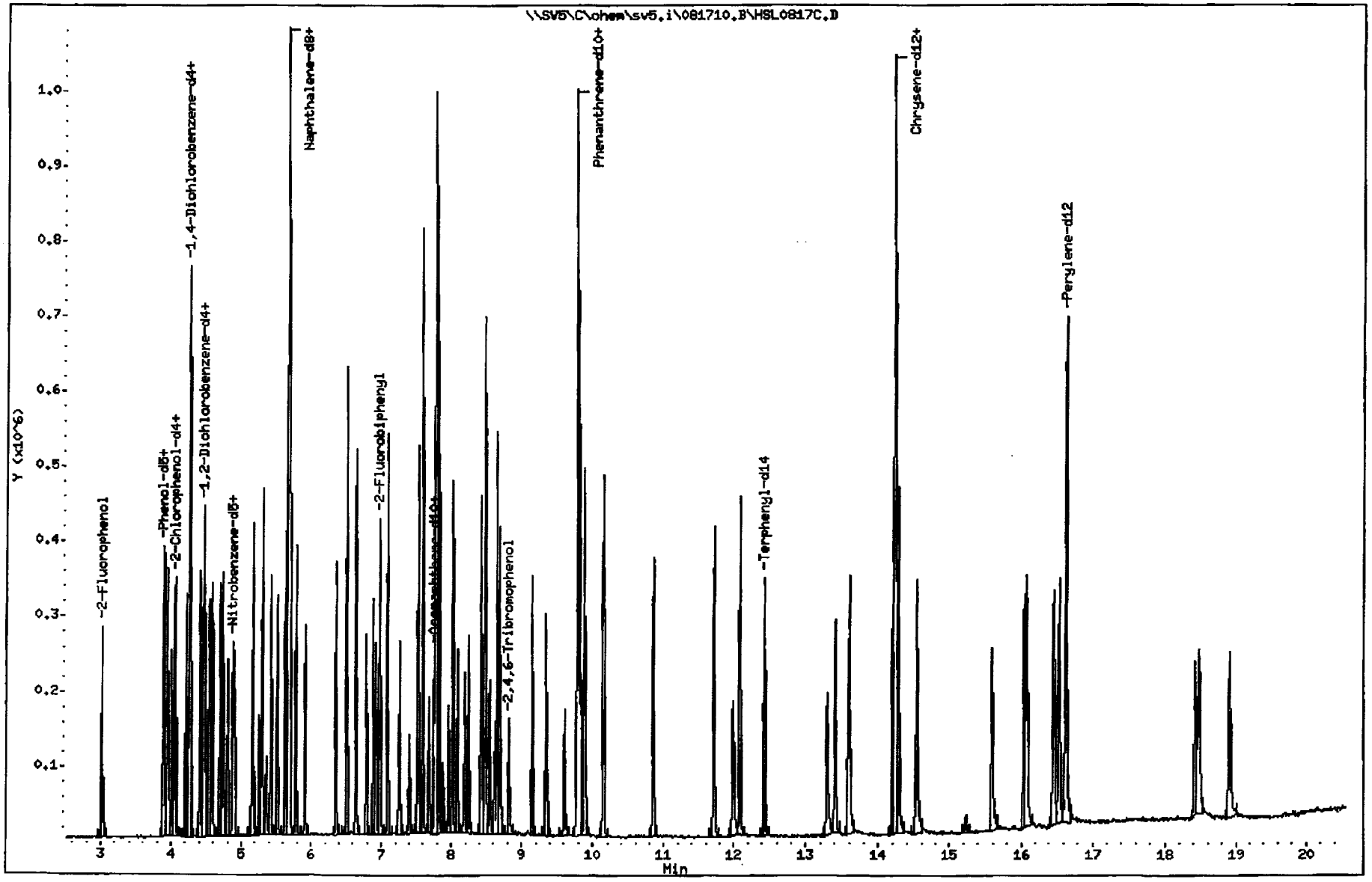
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.79	-0.13
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

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

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Date : 17-AUG-2010 18:49
Client ID: 8270F.M
Sample Info: HSL_020 ug/ml CS-3:1;;3;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817D.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 17:32
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 5 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	4.251	4.251	(1.000)	126302	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	544958	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.785	(1.000)	283970	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	451801	40.0000	
* 5	Chrysene-d12	240	14.231	14.230	(1.000)	438936	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	413868	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	232078	50.0000	50.04
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	291314	50.0000	48.85
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	246939	50.0000	49.66
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	150489	50.0000	48.27
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	243173	50.0000	51.27
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	447474	50.0000	49.83
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	52310	50.0000	51.71
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	417024	50.0000	48.59
15	N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	157242	50.0000	48.72(q)
16	Pyridine	79	2.023	2.023	(0.476)	270653	50.0000	50.22
23	Aniline	93	3.950	3.950	(0.929)	367560	50.0000	48.27
24	Phenol	94	3.899	3.899	(0.917)	310065	50.0000	49.01
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	240671	50.0000	48.73
27	2-Chlorophenol	128	4.064	4.064	(0.956)	245214	50.0000	49.10
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	264317	50.0000	48.02
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	279586	50.0000	49.55
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	162999	50.0000	48.45
31	1,2-Dichlorobenzene	146	4.469	4.468	(1.051)	248462	50.0000	47.84
32	2-Methylphenol	108	4.541	4.541	(1.068)	233030	50.0000	49.11
33	2,2'-oxybis(1-Chloropropane)	45	4.583	4.582	(1.078)	478026	50.0000	48.22
34	4-Methylphenol	108	4.697	4.696	(1.105)	248681	50.0000	50.20(q)
36	Hexachloroethane	117	4.800	4.800	(1.129)	95167	50.0000	49.52
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	173534	50.0000	48.98
42	Nitrobenzene	77	4.904	4.904	(0.865)	236144	50.0000	49.53
44	Isophorone	82	5.163	5.163	(0.910)	471539	50.0000	50.23
45	2-Nitrophenol	139	5.267	5.266	(0.929)	118962	50.0000	51.59
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	243798	50.0000	49.54

8/18/10

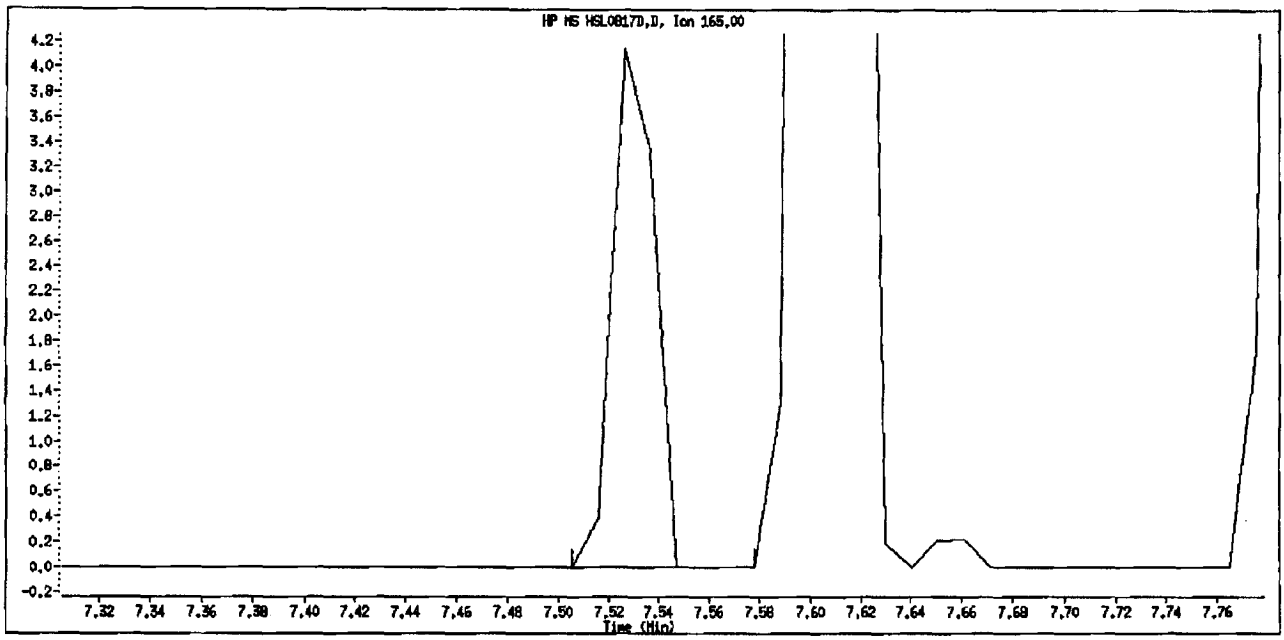
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	281614	50.0000	51.18(H)
49 2,4-Dichlorophenol	162	5.515	5.515	(0.973)	177991	50.0000	51.67
50 Benzoic Acid	122	5.381	5.380	(0.949)	112932	50.0000	50.34(q)
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	190948	50.0000	49.51
52 Naphthalene	128	5.702	5.691	(1.005)	754600	50.0000	49.07
54 4-Chloroaniline	127	5.785	5.785	(1.020)	301718	50.0000	50.19
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	90112	50.0000	50.25
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	209830	50.0000	51.20
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	466988	50.0000	49.75
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	101279	50.0000	52.86
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	109395	50.0000	51.66
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	119756	50.0000	52.26
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	401047	50.0000	50.24
73 2-Nitroaniline	65	7.256	7.256	(0.931)	131798	50.0000	53.65
76 Dimethylphthalate	163	7.526	7.526	(0.965)	465004	50.0000	49.90
77 Acenaphthylene	152	7.598	7.598	(0.975)	702450	50.0000	50.47(H)
79 2,6-Dinitrotoluene	165	7.609	7.608	(0.976)	104784	50.0000	53.10(M)
80 3-Nitroaniline	138	7.764	7.764	(0.996)	139054	50.0000	53.16
81 Acenaphthene	153	7.826	7.826	(1.004)	446978	50.0000	49.99
82 2,4-Dinitrophenol	184	7.888	7.888	(1.012)	44855	50.0000	50.20
83 Dibenzofuran	168	8.034	8.033	(1.031)	585301	50.0000	49.85
84 4-Nitrophenol	109	7.971	7.971	(1.023)	57165	50.0000	49.71(Q)
86 2,4-Dinitrotoluene	165	8.085	8.085	(1.037)	130969	50.0000	48.55(H)
91 Fluorene	166	8.479	8.479	(1.088)	481229	50.0000	50.39
92 Diethylphthalate	149	8.427	8.427	(1.081)	494979	50.0000	49.66
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	199882	50.0000	51.13
94 4-Nitroaniline	138	8.552	8.552	(1.097)	138051	50.0000	54.09
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	59003	50.0000	47.55
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	409155	58.6000	59.35
100 Azobenzene	77	8.697	8.697	(0.889)	500884	50.0000	48.80
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	104571	50.0000	49.13
108 Hexachlorobenzene	284	9.350	9.349	(0.956)	113697	50.0000	48.62
110 Pentachlorophenol	266	9.609	9.609	(0.982)	67958	50.0000	52.45
114 Phenanthrene	178	9.826	9.816	(1.004)	690945	50.0000	48.54
115 Anthracene	178	9.888	9.888	(1.011)	704931	50.0000	50.34
118 Carbazole	167	10.148	10.147	(1.037)	651640	50.0000	49.81
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	805900	50.0000	51.54
126 Fluoranthene	202	11.723	11.723	(1.198)	616310	50.0000	50.10
127 Benzidine	184	11.992	11.992	(0.843)	405107	50.0000	48.39
128 Pyrene	202	12.096	12.085	(0.850)	669665	50.0000	47.74
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	356611	50.0000	48.84
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	339407	50.0000	50.18
138 Benzo(a)Anthracene	228	14.210	14.199	(0.999)	576233	50.0000	50.41
139 Chrysene	228	14.282	14.272	(1.004)	580659	50.0000	47.80
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	199249	50.0000	51.39
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	479585	50.0000	51.42
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	719201	50.0000	49.98
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	467401	50.0000	49.19
145 Benzo(k)fluoranthene	252	16.086	16.085	(0.967)	572271	50.0000	48.10(H)
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	485250	50.0000	49.74
148 Benzo(a)pyrene	252	16.552	16.541	(0.995)	515919	50.0000	49.13
151 Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	420478	50.0000	50.82
152 Dibenzo(a,h)anthracene	278	18.479	18.469	(1.111)	469035	50.0000	50.58
153 Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	486963	50.0000	49.33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1039672	50.0000	48.58 (A)

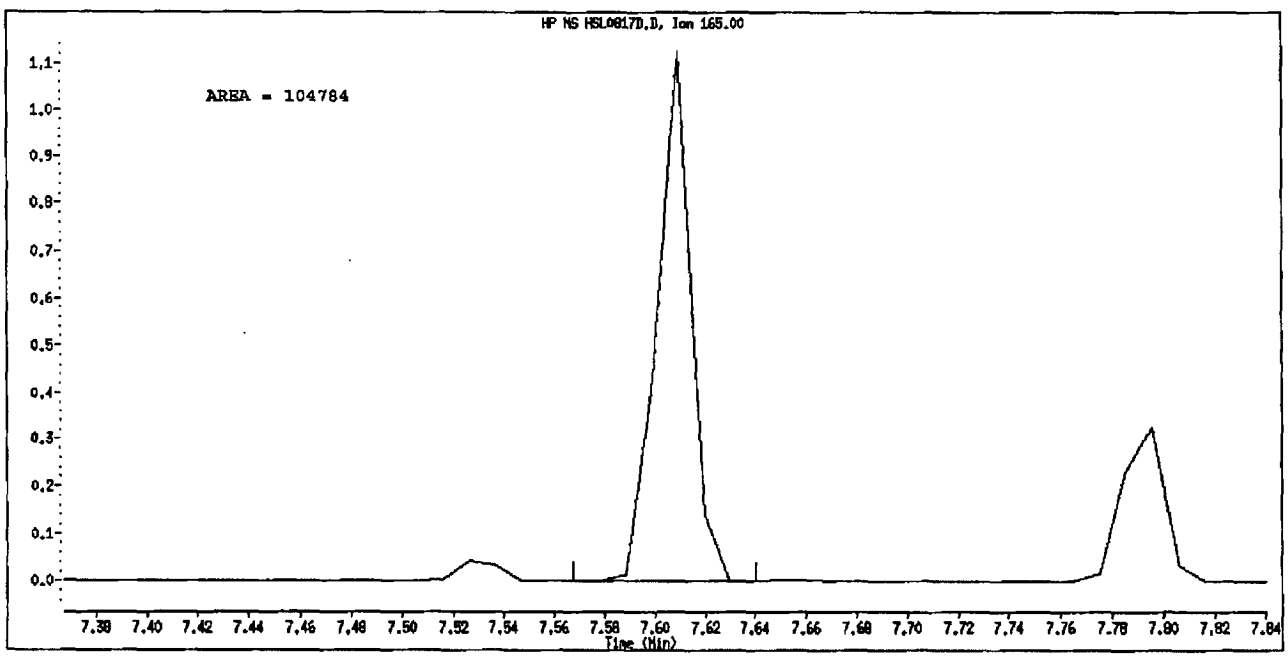
QC Flag Legend

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

Data File Name: HSL0817D.D
Inj. Date and Time: 17-AUG-2010 17:32
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 08/18/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 17:32
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 17:32 Cal File: HSL0817D.D
Als bottle: 5 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	126302	40.0000	
*	2 Naphthalene-d8	136	5.671	5.671	(1.000)	544958	40.0000	
*	3 Acenaphthene-d10	164	7.795	7.795	(1.000)	283970	40.0000	
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	451801	40.0000	
*	5 Chrysene-d12	240	14.231	14.231	(1.000)	438936	40.0000	
*	6 Perylene-d12	264	16.635	16.635	(1.000)	413868	40.0000	
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	232078	50.0000	50.72
$	8 Phenol-d5	99	3.888	3.888	(0.915)	291314	50.0000	49.96
$	9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	246939	50.0000	50.50
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	150489	50.0000	48.01
$	11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	243173	50.0000	52.07
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	447474	50.0000	50.28
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	52310	50.0000	56.21
$	14 Terphenyl-d14	244	12.438	12.438	(0.874)	417024	50.0000	50.31
	15 N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	157242	50.0000	49.38
	16 Pyridine	79	2.023	2.023	(0.476)	270653	50.0000	49.69
	23 Aniline	93	3.950	3.950	(0.929)	367560	50.0000	48.66
	24 Phenol	94	3.899	3.899	(0.917)	310065	50.0000	50.04
	26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	240671	50.0000	48.39
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	245214	50.0000	49.55
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	264317	50.0000	47.75
	29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	279586	50.0000	49.40
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	162999	50.0000	49.98
	31 1,2-Dichlorobenzene	146	4.469	4.469	(1.051)	248462	50.0000	48.12
	32 2-Methylphenol	108	4.541	4.541	(1.068)	233030	50.0000	50.07
	33 2,2'-oxybis(1-Chloropropane)	45	4.583	4.583	(1.078)	478026	50.0000	48.38
	34 4-Methylphenol	108	4.697	4.697	(1.105)	248681	50.0000	51.67
	36 Hexachloroethane	117	4.800	4.800	(1.129)	95167	50.0000	50.11
	37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	173534	50.0000	50.30
	42 Nitrobenzene	77	4.904	4.904	(0.865)	236144	50.0000	50.61
	44 Isophorone	82	5.163	5.163	(0.910)	471539	50.0000	51.25
	45 2-Nitrophenol	139	5.267	5.267	(0.929)	118962	50.0000	56.53
	46 2,4-Dimethyphenol	107	5.298	5.298	(0.934)	243798	50.0000	50.23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.298	5.298	(0.934)	8549	50.0000	5.861
49 2,4-Dichlorophenol	162	5.515	5.515	(0.973)	177991	50.0000	51.28
50 Benzoic Acid	122	5.381	5.381	(0.949)	112932	50.0000	61.56
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	190948	50.0000	49.14
52 Naphthalene	128	5.702	5.702	(1.005)	754600	50.0000	48.07
54 4-Chloroaniline	127	5.785	5.785	(1.020)	301718	50.0000	50.43
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	90112	50.0000	50.24
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	209830	50.0000	53.36
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	466988	50.0000	50.16
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	101279	50.0000	56.33
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	109395	50.0000	53.20
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	119756	50.0000	54.50
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	401047	50.0000	50.09
73 2-Nitroaniline	65	7.256	7.256	(0.931)	131798	50.0000	58.30
76 Dimethylphthalate	163	7.526	7.526	(0.965)	465004	50.0000	50.34
77 Acenaphthylene	152	7.826	7.826	(1.004)	209449	50.0000	49.00
79 2,6-Dinitrotoluene	165	7.795	7.795	(1.000)	37898	50.0000	11.36
80 3-Nitroaniline	138	7.764	7.764	(0.996)	139054	50.0000	56.14
81 Acenaphthene	153	7.826	7.826	(1.004)	446978	50.0000	49.69
82 2,4-Dinitrophenol	184	7.888	7.888	(1.012)	44855	50.0000	68.77
83 Dibenzofuran	168	8.034	8.034	(1.031)	585301	50.0000	49.82
84 4-Nitrophenol	109	7.971	7.971	(1.023)	57165	50.0000	53.26
86 2,4-Dinitrotoluene	165	7.795	7.795	(1.000)	37898	50.0000	11.36
91 Fluorene	166	8.479	8.479	(1.088)	481229	50.0000	50.50
92 Diethylphthalate	149	8.427	8.427	(1.081)	494979	50.0000	48.72
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	199882	50.0000	51.04
94 4-Nitroaniline	138	8.552	8.552	(1.097)	138051	50.0000	57.37
97 4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	59003	50.0000	67.02
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	409155	58.6000	60.42
100 Azobenzene	77	8.697	8.697	(0.889)	500884	50.0000	49.42
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	104571	50.0000	49.94
108 Hexachlorobenzene	284	9.350	9.350	(0.956)	113697	50.0000	48.19
110 Pentachlorophenol	266	9.609	9.609	(0.982)	67958	50.0000	57.91
114 Phenanthrene	178	9.826	9.826	(1.004)	690945	50.0000	48.38
115 Anthracene	178	9.888	9.888	(1.011)	704931	50.0000	51.55
118 Carbazole	167	10.148	10.148	(1.037)	651640	50.0000	50.85
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	805900	50.0000	54.69
126 Fluoranthene	202	11.723	11.723	(1.198)	616310	50.0000	51.94
127 Benzidine	184	11.992	11.992	(0.843)	405107	50.0000	57.95
128 Pyrene	202	12.096	12.096	(0.850)	669665	50.0000	49.29
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	356611	50.0000	60.17
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	339407	50.0000	55.52
138 Benzo(a)Anthracene	228	14.210	14.210	(0.999)	576233	50.0000	52.45
139 Chrysene	228	14.282	14.282	(1.004)	580659	50.0000	47.89
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	199249	50.0000	56.83
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	479585	50.0000	55.91
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	719201	50.0000	61.18
144 Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	467401	50.0000	41.00
145 Benzo(k)fluoranthene	252	16.044	16.044	(0.964)	467401	50.0000	38.18
147 Benzo(e)pyrene	252	16.469	16.469	(0.990)	485250	50.0000	51.16
148 Benzo(a)pyrene	252	16.552	16.552	(0.995)	515919	50.0000	51.62
151 Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	420478	50.0000	50.88
152 Dibenzo(a,h)anthracene	278	18.479	18.479	(1.111)	469035	50.0000	53.56
153 Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	486963	50.0000	51.48

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				934802	50.0000	39.54(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: HSL0817D.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\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	126302	0.00
2 Naphthalene-d8	544958	272479	1089916	544958	0.00
3 Acenaphthene-d10	283970	141985	567940	283970	0.00
4 Phenanthrene-d10	451801	225901	903602	451801	0.00
5 Chrysene-d12	438936	219468	877872	438936	0.00
6 Perylene-d12	413868	206934	827736	413868	0.00

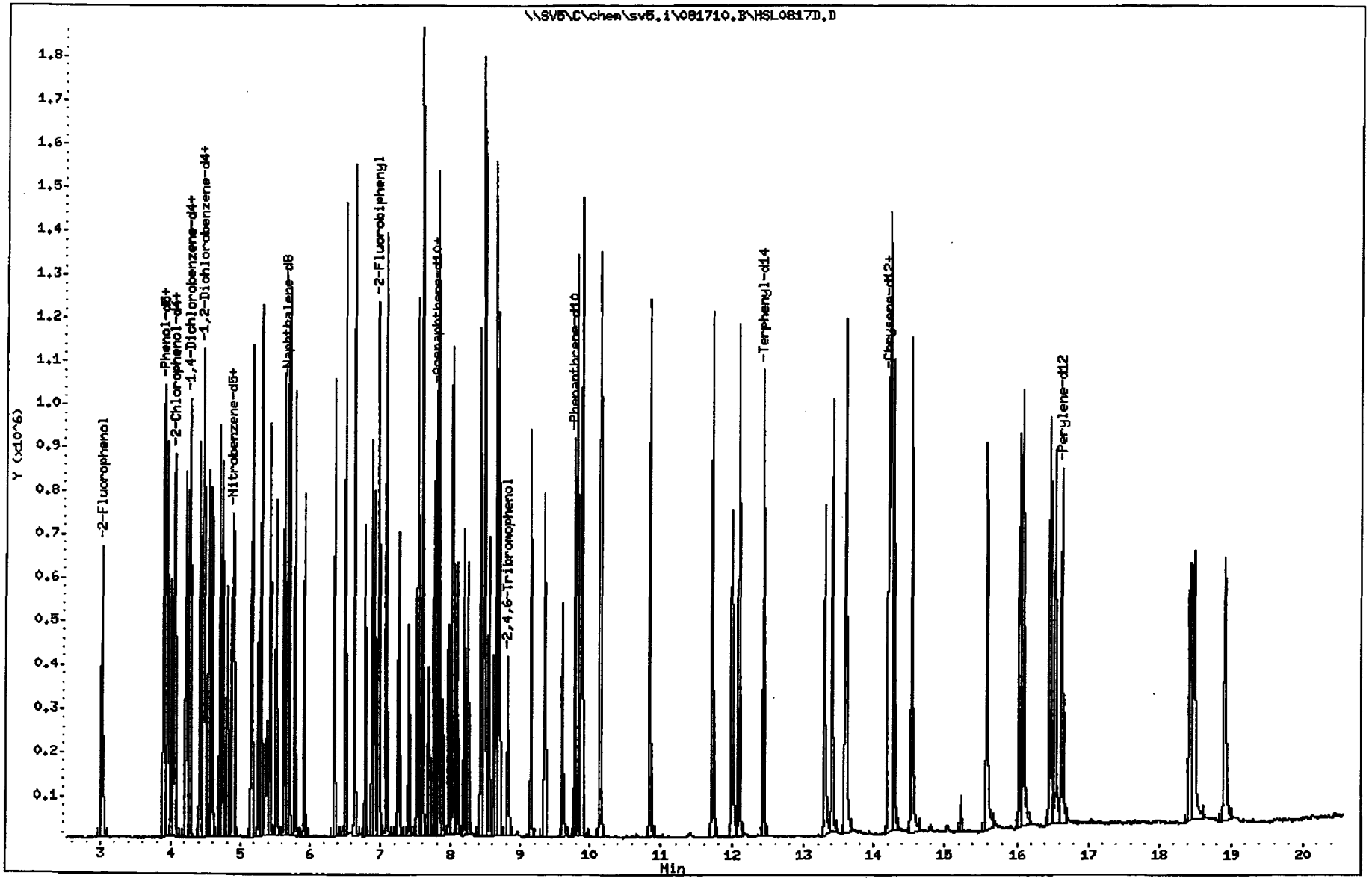
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	0.00

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

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Date : 17-AUG-2010 17:32
Client ID: 8270F.H
Sample Info: HSL_050 ug/ml CS-4;1;;4;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817E.D
Lab Smp Id: HSL_080 ug/ml CS-5 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 19:15
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
*	1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	118559	40.0000		(q)
*	2 Naphthalene-d8	136	5.670	5.671	(1.000)	526512	40.0000		
*	3 Acenaphthene-d10	164	7.795	7.785	(1.000)	280537	40.0000		
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	427840	40.0000		
*	5 Chrysene-d12	240	14.230	14.230	(1.000)	412758	40.0000		
*	6 Perylene-d12	264	16.635	16.635	(1.000)	403773	40.0000		
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	355220	80.0000	81.59	
$	8 Phenol-d5	99	3.888	3.888	(0.915)	460733	80.0000	82.31	
$	9 2-Chlorophenol-d4	132	4.043	4.044	(0.951)	380426	80.0000	81.51	
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	233054	80.0000	79.64	
$	11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	372607	80.0000	81.31	
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	715979	80.0000	80.71	
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	84549	80.0000	84.61	
$	14 Terphenyl-d14	244	12.438	12.438	(0.874)	664326	80.0000	82.29	
	15 N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	246025	80.0000	81.20	
	16 Pyridine	79	2.023	2.023	(0.476)	395516	80.0000	78.18	
	23 Aniline	93	3.950	3.950	(0.929)	573783	80.0000	80.27	
	24 Phenol	94	3.898	3.899	(0.917)	492627	80.0000	82.95	
	26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	370546	80.0000	79.92	
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	376874	80.0000	80.40	
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	412394	80.0000	79.82	
	29 1,4-Dichlorobenzene	146	4.271	4.272	(1.005)	419198	80.0000	79.14	
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	256077	80.0000	81.08	
	31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	393752	80.0000	80.76	
	32 2-Methylphenol	108	4.541	4.541	(1.068)	359899	80.0000	80.81	
	33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	750867	80.0000	80.70	
	34 4-Methylphenol	108	4.696	4.696	(1.105)	380167	80.0000	81.75	(q)
	36 Hexachloroethane	117	4.800	4.800	(1.129)	143162	80.0000	79.37	
	37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	272836	80.0000	82.04	
	42 Nitrobenzene	77	4.904	4.904	(0.865)	373529	80.0000	81.09	
	44 Isophorone	82	5.163	5.163	(0.910)	741740	80.0000	81.79	
	45 2-Nitrophenol	139	5.266	5.266	(0.929)	190273	80.0000	85.41	
	46 2,4-Dimethyphenol	107	5.297	5.298	(0.934)	384804	80.0000	80.93	

8/18/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	437117	80.0000	82.23(H)
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	271367	80.0000	81.54
50	Benzoic Acid	122	5.401	5.380	(0.952)	180014	80.0000	78.07(q)
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	295383	80.0000	79.26
52	Naphthalene	128	5.702	5.691	(1.005)	1169676	80.0000	78.72
54	4-Chloroaniline	127	5.784	5.785	(1.020)	467667	80.0000	80.53
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	140103	80.0000	80.86
60	4-Chloro-3-Methylphenol	107	6.354	6.355	(1.121)	329783	80.0000	83.29
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	734238	80.0000	80.97
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	155156	80.0000	81.98
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	170315	80.0000	81.42
70	2,4,5-Trichlorphenol	196	6.924	6.925	(0.888)	191261	80.0000	84.49
71	2-Chloronaphthalene	162	7.090	7.090	(0.910)	618104	80.0000	78.37
73	2-Nitroaniline	65	7.256	7.256	(0.931)	203219	80.0000	83.73
76	Dimethylphthalate	163	7.536	7.526	(0.967)	732407	80.0000	79.56
77	Acenaphthylene	152	7.598	7.598	(0.975)	1113497	80.0000	80.98(H)
79	2,6-Dinitrotoluene	165	7.608	7.608	(0.976)	161959	80.0000	83.08(H)
80	3-Nitroaniline	138	7.764	7.764	(0.996)	211526	80.0000	81.86
81	Acenaphthene	153	7.826	7.826	(1.004)	692280	80.0000	78.37
82	2,4-Dinitrophenol	184	7.888	7.888	(1.012)	73028	80.0000	76.62
83	Dibenzofuran	168	8.033	8.033	(1.031)	924563	80.0000	79.71
84	4-Nitrophenol	109	7.971	7.971	(1.023)	94927	80.0000	83.56
86	2,4-Dinitrotoluene	165	8.095	8.085	(1.039)	206467	80.0000	74.72(H)
91	Fluorene	166	8.479	8.479	(1.088)	755879	80.0000	80.11
92	Diethylphthalate	149	8.427	8.427	(1.081)	752233	80.0000	76.40
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	308956	80.0000	79.99
94	4-Nitroaniline	138	8.551	8.552	(1.097)	211444	80.0000	83.86
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	101028	80.0000	79.86
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	638809	93.7000	97.86
100	Azobenzene	77	8.696	8.697	(0.889)	792858	80.0000	81.58
101	4-Bromophenyl-phenylether	248	9.152	9.153	(0.935)	167606	80.0000	83.15
108	Hexachlorobenzene	284	9.349	9.349	(0.956)	172524	80.0000	77.90
110	Pentachlorophenol	266	9.608	9.609	(0.982)	105470	80.0000	85.97
114	Phenanthrene	178	9.826	9.816	(1.004)	1087718	80.0000	80.70
115	Anthracene	178	9.888	9.888	(1.011)	1102186	80.0000	83.11
118	Carbazole	167	10.147	10.147	(1.037)	1008873	80.0000	81.44
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	1261516	80.0000	85.20
126	Fluoranthene	202	11.722	11.723	(1.198)	988878	80.0000	84.88
127	Benzidine	184	11.992	11.992	(0.843)	653636	80.0000	78.66
128	Pyrene	202	12.096	12.085	(0.850)	1080685	80.0000	81.93
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	578978	80.0000	79.67
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	553050	80.0000	86.95
138	Benzo(a)Anthracene	228	14.210	14.199	(0.999)	876540	80.0000	81.55
139	Chrysene	228	14.282	14.272	(1.004)	922388	80.0000	80.76
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	316630	80.0000	86.84
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	747425	80.0000	85.22
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	1143210	80.0000	80.15
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	748509	80.0000	80.75
145	Benzo(k)fluoranthene	252	16.085	16.085	(0.967)	930708	80.0000	80.18(H)
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	768210	80.0000	80.70
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	846951	80.0000	82.67
151	Indeno(1,2,3-cd)pyrene	276	18.427	18.428	(1.108)	658990	80.0000	81.64
152	Dibenzo(a,h)anthracene	278	18.479	18.469	(1.111)	741581	80.0000	81.97
153	Benzo(g,h,i)perylene	276	18.925	18.915	(1.138)	788099	80.0000	81.84

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1679217	80.0000	80.43(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.
q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Lab Smp Id: HSL_080 ug/ml CS-5 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 19:15
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 19:15 Cal File: HSL0817E.D
Als bottle: 6 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)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	118559	40.0000	
* 2	Naphthalene-d8	136	5.670	5.670	(1.000)	526512	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	280537	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	427840	40.0000	
* 5	Chrysene-d12	240	14.230	14.230	(1.000)	412758	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	403773	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	355220	80.0000	82.15
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	460733	80.0000	83.31
$ 9	2-Chlorophenol-d4	132	4.043	4.043	(0.951)	380426	80.0000	82.28
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	233054	80.0000	79.36
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	372607	80.0000	81.70
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	715979	80.0000	81.15
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	84549	80.0000	89.30
$ 14	Terphenyl-d14	244	12.438	12.438	(0.874)	664326	80.0000	84.13
15	N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	246025	80.0000	81.83
16	Pyridine	79	2.023	2.023	(0.476)	395516	80.0000	77.87
23	Aniline	93	3.950	3.950	(0.929)	573783	80.0000	80.73
24	Phenol	94	3.898	3.898	(0.917)	492627	80.0000	83.71
26	Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	370546	80.0000	79.50
27	2-Chlorophenol	128	4.064	4.064	(0.956)	376874	80.0000	80.90
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	412394	80.0000	79.49
29	1,4-Dichlorobenzene	146	4.271	4.271	(1.005)	419198	80.0000	79.12
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	256077	80.0000	82.90
31	1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	393752	80.0000	80.98
32	2-Methylphenol	108	4.541	4.541	(1.068)	359899	80.0000	81.89
33	2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	750867	80.0000	80.76
34	4-Methylphenol	108	4.696	4.696	(1.105)	380167	80.0000	83.28
36	Hexachloroethane	117	4.800	4.800	(1.129)	143162	80.0000	80.25
37	N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	272836	80.0000	83.36
42	Nitrobenzene	77	4.904	4.904	(0.865)	373529	80.0000	82.27
44	Isophorone	82	5.163	5.163	(0.910)	741740	80.0000	82.74
45	2-Nitrophenol	139	5.266	5.266	(0.929)	190273	80.0000	90.51
46	2,4-Dimethyphenol	107	5.297	5.297	(0.934)	384804	80.0000	81.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.297	5.297	(0.934)	12668	80.0000	10.93
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	271367	80.0000	80.69
50	Benzoic Acid	122	5.401	5.401	(0.952)	180014	80.0000	95.15
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	295383	80.0000	78.95
52	Naphthalene	128	5.702	5.702	(1.005)	1169676	80.0000	77.68
54	4-Chloroaniline	127	5.784	5.784	(1.020)	467667	80.0000	80.72
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	140103	80.0000	80.67
60	4-Chloro-3-Methylphenol	107	6.354	6.354	(1.121)	329783	80.0000	85.35
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	734238	80.0000	81.30
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	155156	80.0000	85.78
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	170315	80.0000	83.04
70	2,4,5-Trichlorphenol	196	6.924	6.924	(0.888)	191261	80.0000	86.36
71	2-Chloronaphthalene	162	7.090	7.090	(0.910)	618104	80.0000	78.52
73	2-Nitroaniline	65	7.256	7.256	(0.931)	203219	80.0000	88.56
76	Dimethylphthalate	163	7.536	7.536	(0.967)	732407	80.0000	80.20
77	Acenaphthylene	152	7.826	7.826	(1.004)	322543	80.0000	77.08
79	2,6-Dinitrotoluene	165	7.795	7.795	(1.000)	35988	80.0000	13.19
80	3-Nitroaniline	138	7.764	7.764	(0.996)	211526	80.0000	85.07
81	Acenaphthene	153	7.826	7.826	(1.004)	692280	80.0000	78.31
82	2,4-Dinitrophenol	184	7.888	7.888	(1.012)	73028	80.0000	104.6
83	Dibenzofuran	168	8.033	8.033	(1.031)	924563	80.0000	79.73
84	4-Nitrophenol	109	7.971	7.971	(1.023)	94927	80.0000	87.44
86	2,4-Dinitrotoluene	165	7.795	7.795	(1.000)	35988	80.0000	13.19
91	Fluorene	166	8.479	8.479	(1.088)	755879	80.0000	80.23
92	Diethylphthalate	149	8.427	8.427	(1.081)	752233	80.0000	75.91
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	308956	80.0000	79.89
94	4-Nitroaniline	138	8.551	8.551	(1.097)	211444	80.0000	87.00
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	101028	80.0000	109.9
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	638809	93.7000	98.38
100	Azobenzene	77	8.696	8.696	(0.889)	792858	80.0000	82.08
101	4-Bromophenyl-phenylether	248	9.152	9.152	(0.935)	167606	80.0000	83.58
108	Hexachlorobenzene	284	9.349	9.349	(0.956)	172524	80.0000	77.76
110	Pentachlorophenol	266	9.608	9.608	(0.982)	105470	80.0000	91.50
114	Phenanthrene	178	9.826	9.826	(1.004)	1087718	80.0000	80.34
115	Anthracene	178	9.888	9.888	(1.011)	1102186	80.0000	84.04
118	Carbazole	167	10.147	10.147	(1.037)	1008873	80.0000	82.49
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	1261516	80.0000	88.12
126	Fluoranthene	202	11.722	11.722	(1.198)	988878	80.0000	86.28
127	Benzidine	184	11.992	11.992	(0.843)	653636	80.0000	94.82
128	Pyrene	202	12.096	12.096	(0.850)	1080685	80.0000	83.63
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	578978	80.0000	98.04
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	553050	80.0000	92.46
138	Benzo(a)Anthracene	228	14.210	14.210	(0.999)	876540	80.0000	83.84
139	Chrysene	228	14.282	14.282	(1.004)	922388	80.0000	80.72
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	316630	80.0000	92.34
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	747425	80.0000	89.82
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	1143210	80.0000	97.70
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	748509	80.0000	69.51
145	Benzo(k)fluoranthene	252	16.044	16.044	(0.964)	748509	80.0000	65.52
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	768210	80.0000	82.40
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	846951	80.0000	85.40
151	Indeno(1,2,3-cd)pyrene	276	18.427	18.427	(1.108)	658990	80.0000	81.38
152	Dibenzo(a,h)anthracene	278	18.479	18.479	(1.111)	741581	80.0000	85.34
153	Benzo(g,h,i)perylene	276	18.925	18.925	(1.138)	788099	80.0000	84.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1497018	80.0000	67.45 (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: HSL0817E.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\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	118559	-6.13
2 Naphthalene-d8	544958	272479	1089916	526512	-3.38
3 Acenaphthene-d10	283970	141985	567940	280537	-1.21
4 Phenanthrene-d10	451801	225901	903602	427840	-5.30
5 Chrysene-d12	438936	219468	877872	412758	-5.96
6 Perylene-d12	413868	206934	827736	403773	-2.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.01
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	-0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	-0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

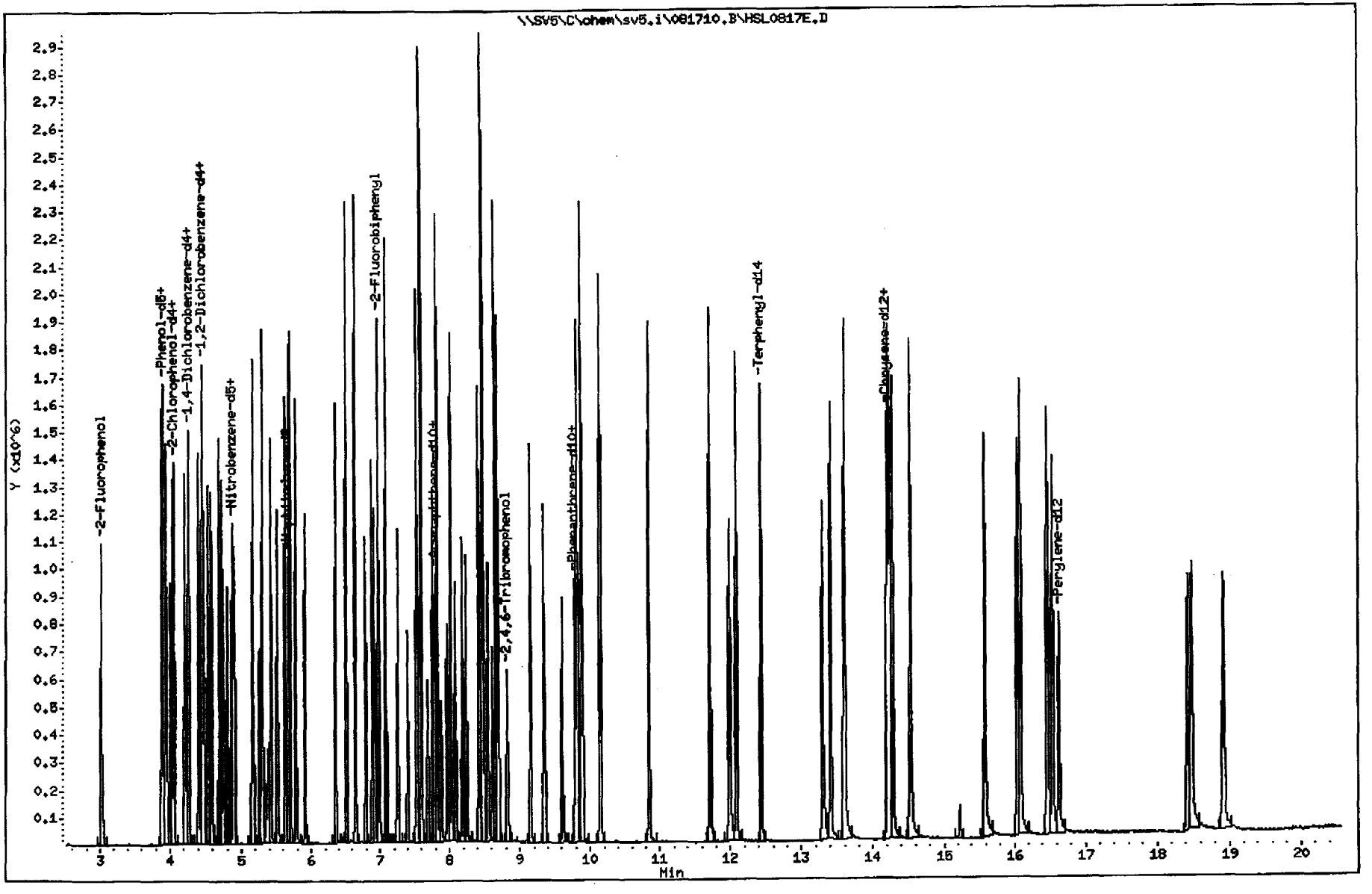
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Date : 17-AUG-2010 19:15
Client ID: 8270F.M
Sample Info: HSL_080 ug/ml CS-5;1;;5;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817F.D
Lab Smp Id: HSL_120 ug/ml CS-6 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 19:41
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 7 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	4.251	4.251	(1.000)	139429	40.0000	(Q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	625330	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.785	(1.000)	328417	40.0000	
* 4	Phenanthrene-d10	188	9.785	9.785	(1.000)	510963	40.0000	
* 5	Chrysene-d12	240	14.241	14.230	(1.000)	464837	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	436720	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	629595	120.000	123.0
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	817898	120.000	124.2
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	673160	120.000	122.6
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	414361	120.000	120.4
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	673909	120.000	123.8
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	1261382	120.000	121.5
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	155479	120.000	132.9
$ 14	Terphenyl-d14	244	12.438	12.438	(0.873)	1176172	120.000	129.4
15	N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	437106	120.000	122.7(M)
16	Pyridine	79	2.023	2.023	(0.476)	704489	120.000	118.4(QM)
23	Aniline	93	3.950	3.950	(0.929)	1029965	120.000	122.5
24	Phenol	94	3.899	3.899	(0.917)	858752	120.000	123.0
26	Bis(2-chloroethyl)ether	93	4.012	4.002	(0.944)	649091	120.000	119.0
27	2-Chlorophenol	128	4.064	4.064	(0.956)	675598	120.000	122.6
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	720959	120.000	118.6
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	749122	120.000	120.3
30	Benzyl Alcohol	108	4.406	4.406	(1.037)	469415	120.000	126.4
31	1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	694303	120.000	121.1
32	2-Methylphenol	108	4.541	4.541	(1.068)	653154	120.000	124.7
33	2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	1318006	120.000	120.4
34	4-Methylphenol	108	4.696	4.696	(1.105)	691048	120.000	126.4(q)
36	Hexachloroethane	117	4.800	4.800	(1.129)	261018	120.000	123.0
37	N-Nitrosodinpropylamine	70	4.748	4.738	(1.117)	484725	120.000	123.9
42	Nitrobenzene	77	4.904	4.904	(0.865)	684717	120.000	125.2
44	Isophorone	82	5.163	5.163	(0.910)	1336892	120.000	124.1
45	2-Nitrophenol	139	5.266	5.266	(0.929)	363881	120.000	137.5(q)
46	2,4-Dimethyphenol	107	5.298	5.298	(0.934)	686156	120.000	121.5

8/18/10

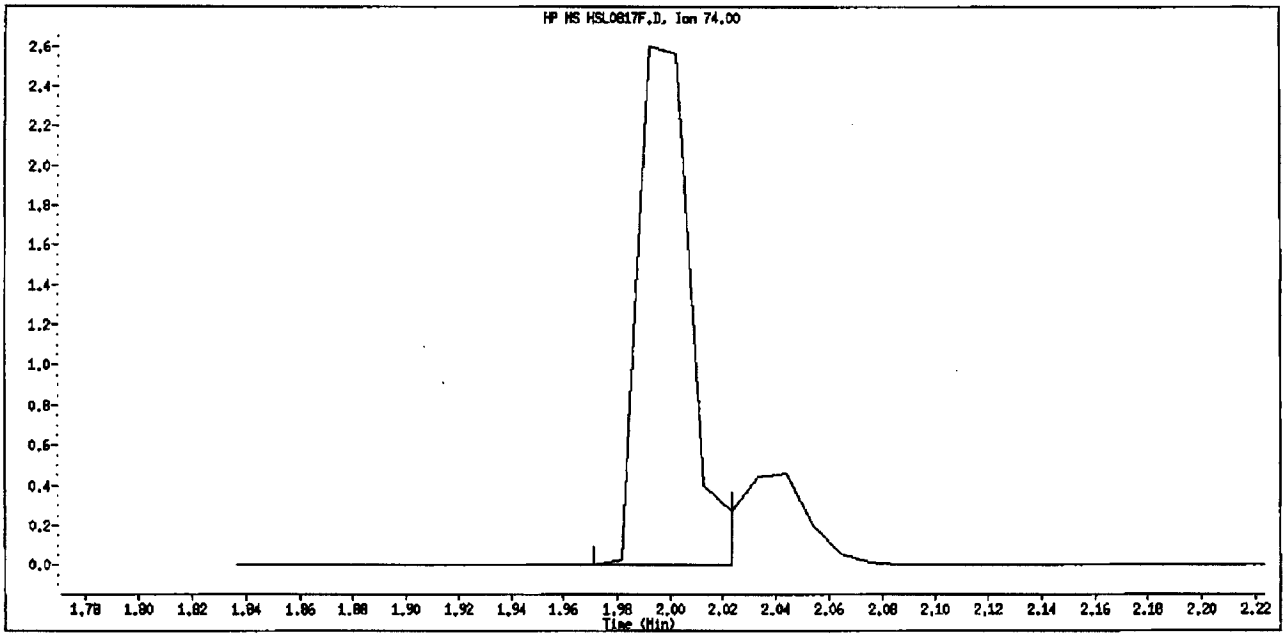
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	763593	120.000	120.9(H)
49 2,4-Dichlorophenol	162	5.526	5.515	(0.974)	496476	120.000	125.6
50 Benzoic Acid	122	5.422	5.380	(0.956)	365211	120.000	122.5(q)
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	532025	120.000	120.2
52 Naphthalene	128	5.702	5.691	(1.005)	2129736	120.000	120.7
54 4-Chloroaniline	127	5.785	5.785	(1.020)	834171	120.000	120.9
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	244517	120.000	118.8
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	600217	120.000	127.6
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	1303285	120.000	121.0
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	288784	120.000	130.3
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	308360	120.000	125.9
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	332787	120.000	125.6
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	1104015	120.000	119.6
73 2-Nitroaniline	65	7.256	7.256	(0.931)	386093	120.000	135.9
76 Dimethylphthalate	163	7.536	7.526	(0.967)	1327268	120.000	123.2
77 Acenaphthylene	152	7.598	7.598	(0.975)	1997159	120.000	124.1(H)
79 2,6-Dinitrotoluene	165	7.608	7.608	(0.976)	295121	120.000	129.3(H)
80 3-Nitroaniline	138	7.764	7.764	(0.996)	391033	120.000	129.3
81 Acenaphthene	153	7.836	7.826	(1.005)	1240436	120.000	119.9
82 2,4-Dinitrophenol	184	7.899	7.888	(1.013)	156531	120.000	124.0
83 Dibenzofuran	168	8.033	8.033	(1.031)	1640370	120.000	120.8
84 4-Nitrophenol	109	7.971	7.971	(1.023)	176086	120.000	132.4
86 2,4-Dinitrotoluene	165	8.096	8.085	(1.039)	399329	120.000	120.4(H)
91 Fluorene	166	8.479	8.479	(1.088)	1345712	120.000	121.8
92 Diethylphthalate	149	8.438	8.427	(1.082)	1357056	120.000	117.7
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	544191	120.000	120.4
94 4-Nitroaniline	138	8.562	8.552	(1.098)	381987	120.000	129.4
97 4,6-Dinitro-2-methylphenol	198	8.624	8.614	(0.881)	198420	120.000	123.0
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	1123700	141.000	144.1
100 Azobenzene	77	8.697	8.697	(0.889)	1420481	120.000	122.4
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	293461	120.000	121.9
108 Hexachlorobenzene	284	9.349	9.349	(0.956)	317602	120.000	120.1
110 Pentachlorophenol	266	9.609	9.609	(0.982)	198893	120.000	135.7
114 Phenanthrene	178	9.826	9.816	(1.004)	1926692	120.000	119.7
115 Anthracene	178	9.888	9.888	(1.011)	1962119	120.000	123.9
118 Carbazole	167	10.147	10.147	(1.037)	1845173	120.000	124.7
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	2283295	120.000	129.1
126 Fluoranthene	202	11.723	11.723	(1.198)	1745790	120.000	125.5
127 Benzidine	184	11.992	11.992	(0.842)	1233213	120.000	123.5
128 Pyrene	202	12.096	12.085	(0.849)	1920644	120.000	129.3
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	1062451	120.000	121.9
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	989435	120.000	138.1
138 Benzo(a)Anthracene	228	14.210	14.199	(0.998)	1565710	120.000	129.3
139 Chrysene	228	14.282	14.272	(1.003)	1552890	120.000	120.7
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.000)	559932	120.000	136.4
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.020)	1323201	120.000	134.0
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	2050015	120.000	120.3
144 Benzo(b)fluoranthene	252	16.054	16.044	(0.965)	1218559	120.000	121.5
145 Benzo(k)fluoranthene	252	16.085	16.085	(0.967)	1658818	120.000	132.1(H)
147 Benzo(e)pyrene	252	16.479	16.469	(0.991)	1290687	120.000	125.4
148 Benzo(a)pyrene	252	16.552	16.541	(0.995)	1439493	120.000	129.9
151 Indeno(1,2,3-cd)pyrene	276	18.438	18.428	(1.108)	1196424	120.000	137.0(M)
152 Dibenzo(a,h)anthracene	278	18.490	18.469	(1.112)	1266146	120.000	129.4
153 Benzo(g,h,i)perylene	276	18.935	18.915	(1.138)	1346327	120.000	129.2

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				2877377	120.000	127.4(A)

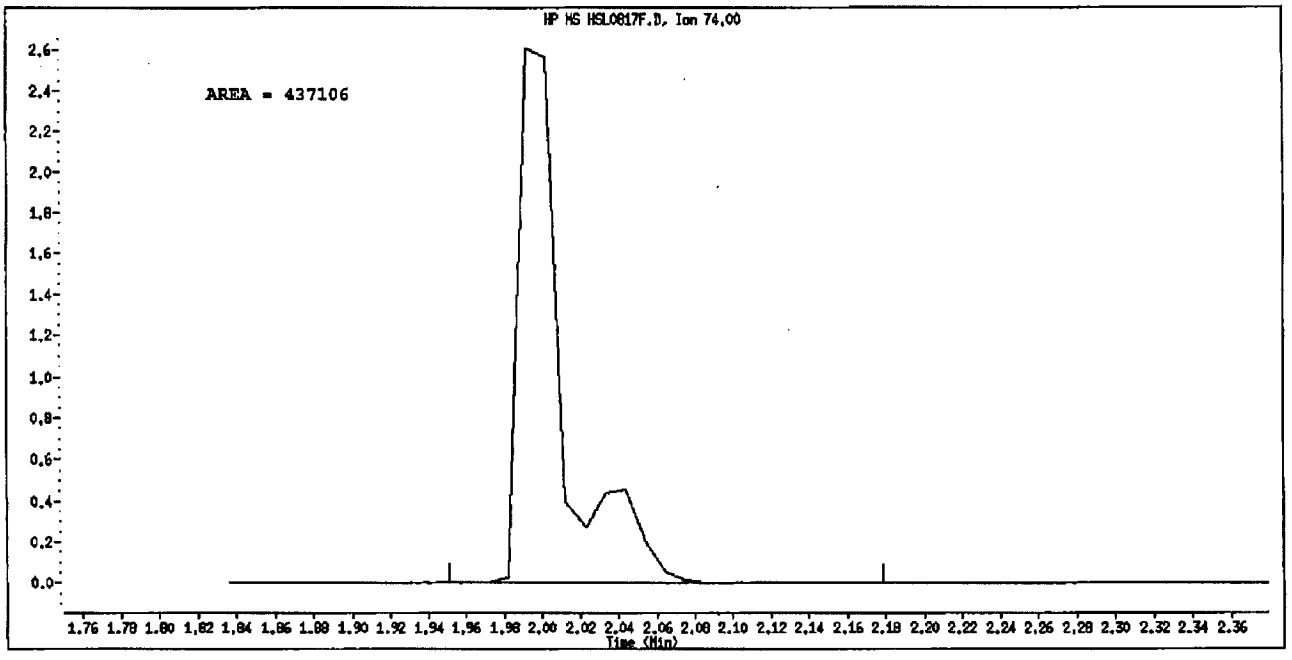
QC Flag Legend

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

Data File Name: HSL0817F.D
Inj. Date and Time: 17-AUG-2010 19:41
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/18/2010



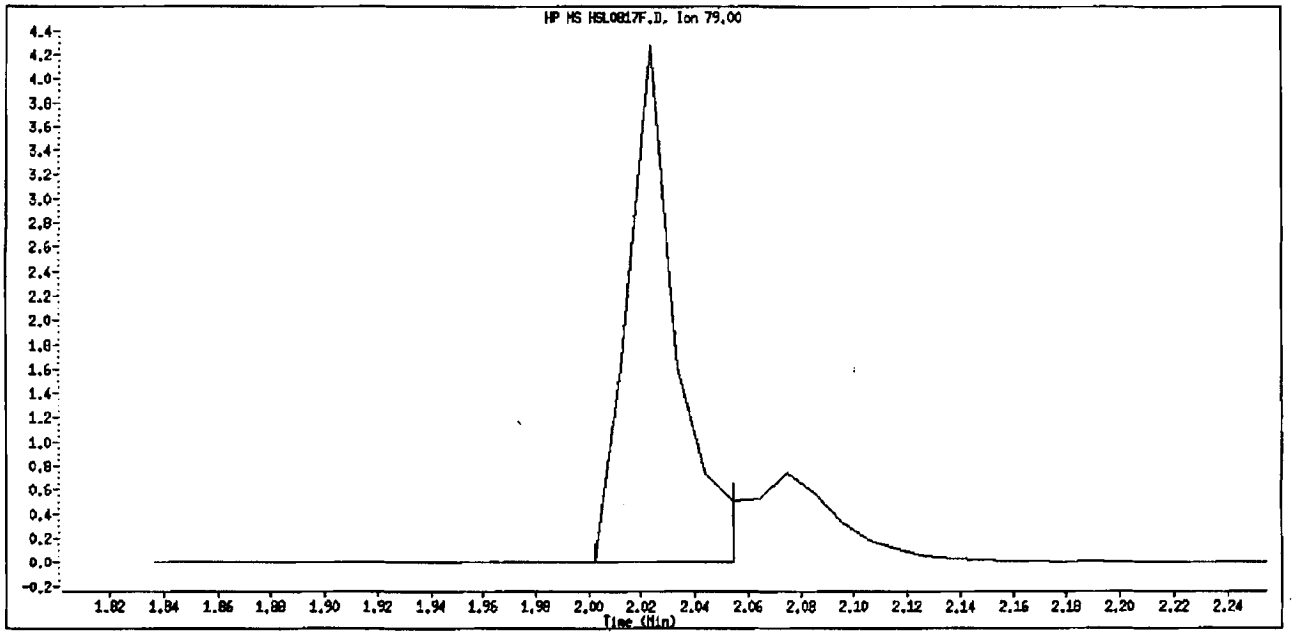
Original Integration



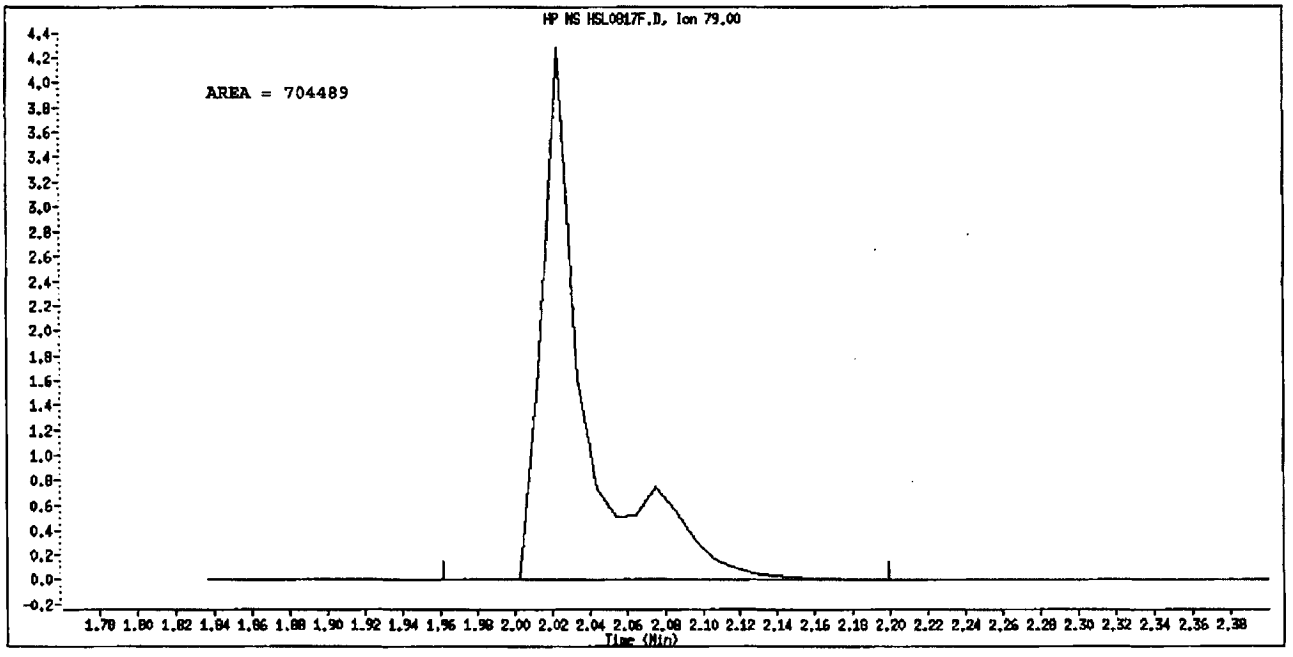
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0817F.D
Inj. Date and Time: 17-AUG-2010 19:41
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/18/2010



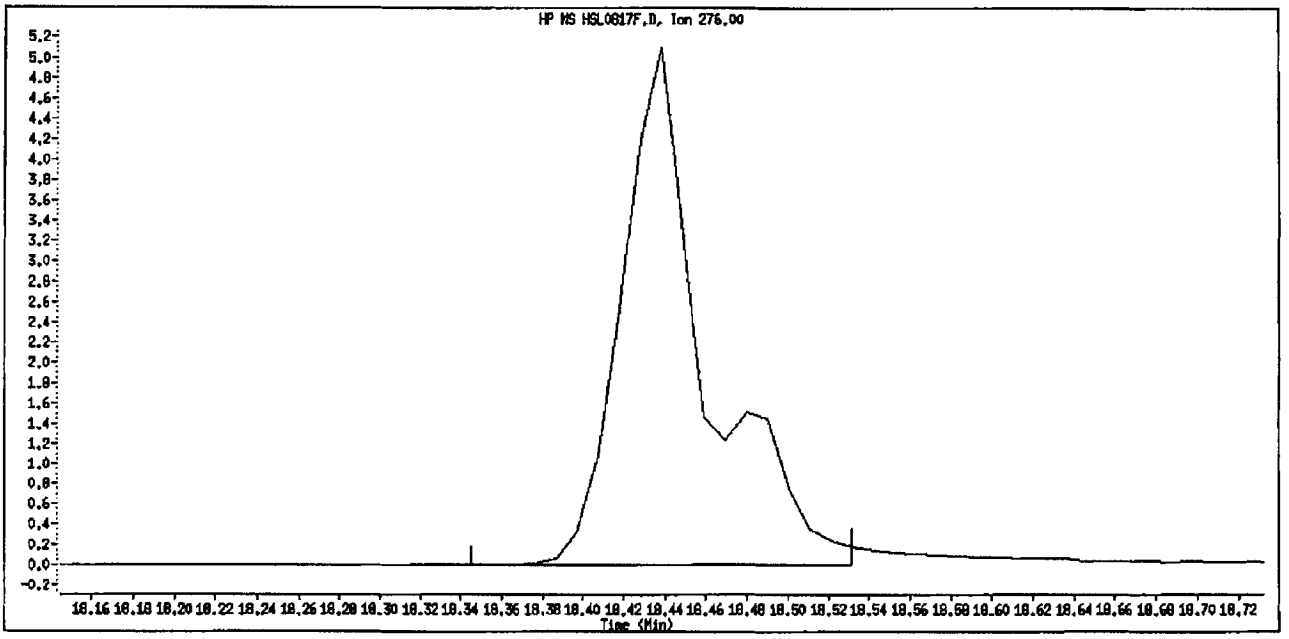
Original Integration



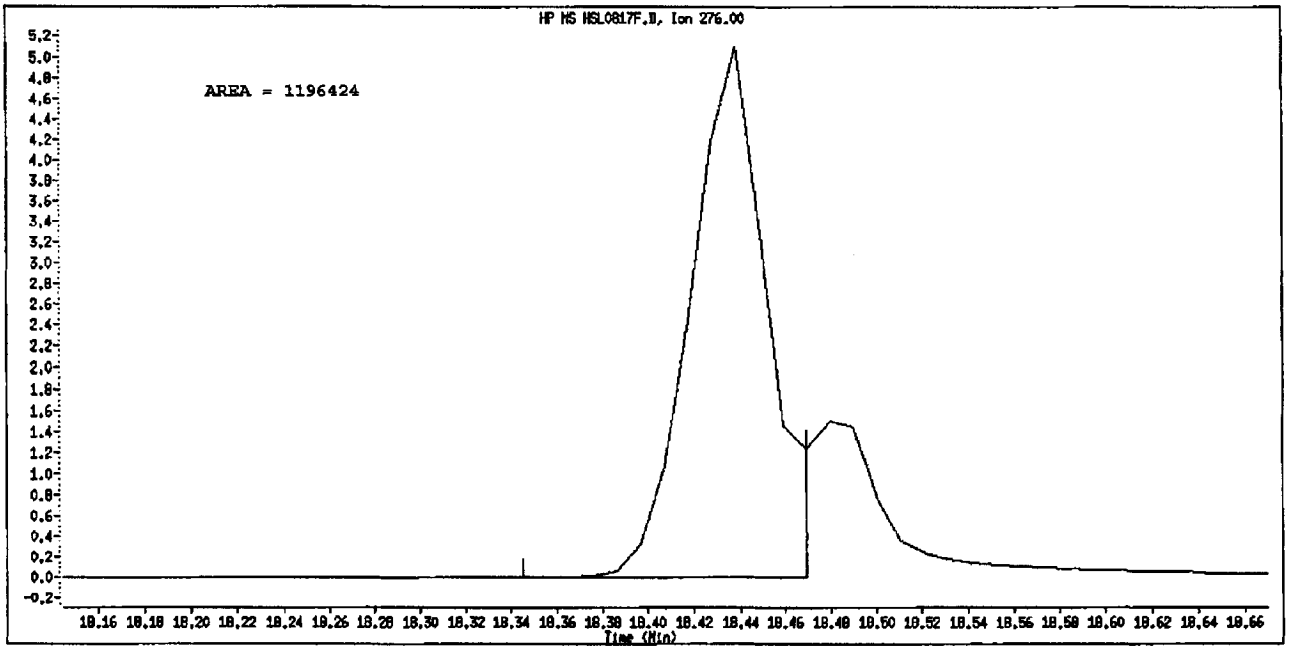
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0817F.D
Inj. Date and Time: 17-AUG-2010 19:41
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 08/18/2010



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\081710.B\HSL0817F.D
Lab Smp Id: HSL_120 ug/ml CS-6 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 19:41
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 19:41 Cal File: HSL0817F.D
Als bottle: 7 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	139429	40.0000	
*	2 Naphthalene-d8	136	5.671	5.671	(1.000)	625330	40.0000	
*	3 Acenaphthene-d10	164	7.795	7.795	(1.000)	328417	40.0000	
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	510963	40.0000	
*	5 Chrysene-d12	240	14.241	14.241	(1.000)	464837	40.0000	
*	6 Perylene-d12	264	16.635	16.635	(1.000)	436720	40.0000	
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	629595	120.000	123.2
$	8 Phenol-d5	99	3.888	3.888	(0.915)	817898	120.000	124.8
$	9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	673160	120.000	123.2
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	414361	120.000	120.0
$	11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	673909	120.000	123.3
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.896)	1261382	120.000	121.8
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	155479	120.000	136.4
$	14 Terphenyl-d14	244	12.438	12.438	(0.873)	1176172	120.000	130.0
	15 N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	355972	120.000	103.4
	16 Pyridine	79	2.023	2.023	(0.476)	532123	120.000	93.08
	23 Aniline	93	3.950	3.950	(0.929)	1029965	120.000	122.7
	24 Phenol	94	3.899	3.899	(0.917)	858752	120.000	123.4
	26 Bis(2-chloroethyl)ether	93	4.012	4.012	(0.944)	649091	120.000	118.7
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	675598	120.000	122.8
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	720959	120.000	118.5
	29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	749122	120.000	120.2
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	469415	120.000	127.6
	31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	694303	120.000	121.2
	32 2-Methylphenol	108	4.541	4.541	(1.068)	653154	120.000	125.3
	33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	1318006	120.000	120.4
	34 4-Methylphenol	108	4.696	4.696	(1.105)	691048	120.000	127.2
	36 Hexachloroethane	117	4.800	4.800	(1.129)	261018	120.000	123.6
	37 N-Nitrosodinpropylamine	70	4.748	4.748	(1.117)	484725	120.000	124.9
	42 Nitrobenzene	77	4.904	4.904	(0.865)	684717	120.000	125.8
	44 Isophorone	82	5.163	5.163	(0.910)	1336892	120.000	124.6
	45 2-Nitrophenol	139	5.266	5.266	(0.929)	363881	120.000	140.7
	46 2,4-Dimethyphenol	107	5.298	5.298	(0.934)	686156	120.000	122.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.266	5.266	(0.929)	56129	120.000	45.81
49 2,4-Dichlorophenol	162	5.526	5.526	(0.974)	496476	120.000	123.4
50 Benzoic Acid	122	5.422	5.422	(0.956)	365211	120.000	151.8
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	532025	120.000	119.8
52 Naphthalene	128	5.702	5.702	(1.005)	2129736	120.000	119.2
54 4-Chloroaniline	127	5.785	5.785	(1.020)	834171	120.000	121.0
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	244517	120.000	118.8
60 4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	600217	120.000	128.8
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	1303285	120.000	121.2
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	288784	120.000	133.3
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	308360	120.000	126.9
70 2,4,5-Trichlorphenol	196	6.925	6.925	(0.888)	332787	120.000	126.9
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	1104015	120.000	119.8
73 2-Nitroaniline	65	7.256	7.256	(0.931)	386093	120.000	139.1
76 Dimethylphthalate	163	7.536	7.536	(0.967)	1327268	120.000	123.4
77 Acenaphthylene	152	7.836	7.836	(1.005)	582482	120.000	119.1
79 2,6-Dinitrotoluene	165	7.795	7.795	(1.000)	42444	120.000	15.60
80 3-Nitroaniline	138	7.764	7.764	(0.996)	391033	120.000	131.7
81 Acenaphthene	153	7.836	7.836	(1.005)	1240436	120.000	119.9
82 2,4-Dinitrophenol	184	7.899	7.899	(1.013)	156531	120.000	174.2(A)
83 Dibenzofuran	168	8.033	8.033	(1.031)	1640370	120.000	120.7
84 4-Nitrophenol	109	7.971	7.971	(1.023)	176086	120.000	135.1
86 2,4-Dinitrotoluene	165	7.795	7.795	(1.000)	42444	120.000	15.60
91 Fluorene	166	8.479	8.479	(1.088)	1345712	120.000	121.7
92 Diethylphthalate	149	8.438	8.438	(1.082)	1357056	120.000	117.5
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	544191	120.000	120.2
94 4-Nitroaniline	138	8.562	8.562	(1.098)	381987	120.000	131.6
97 4,6-Dinitro-2-methylphenol	198	8.624	8.624	(0.881)	198420	120.000	166.6(A)
98 N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	1123700	141.000	144.2
100 Azobenzene	77	8.697	8.697	(0.889)	1420481	120.000	122.6
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	293461	120.000	122.1
108 Hexachlorobenzene	284	9.349	9.349	(0.956)	317602	120.000	119.9
110 Pentachlorophenol	266	9.609	9.609	(0.982)	198893	120.000	139.7
114 Phenanthrene	178	9.826	9.826	(1.004)	1926692	120.000	119.3
115 Anthracene	178	9.888	9.888	(1.011)	1962119	120.000	124.4
118 Carbazole	167	10.147	10.147	(1.037)	1845173	120.000	125.2
120 Di-n-Butylphthalate	149	10.852	10.852	(1.109)	2283295	120.000	131.1
126 Fluoranthene	202	11.723	11.723	(1.198)	1745790	120.000	126.2
127 Benzidine	184	11.992	11.992	(0.842)	1233213	120.000	150.7
128 Pyrene	202	12.096	12.096	(0.849)	1920644	120.000	129.8
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	1062451	120.000	151.4
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	989435	120.000	141.6
138 Benzo(a)Anthracene	228	14.210	14.210	(0.998)	1565710	120.000	130.6
139 Chrysene	228	14.282	14.282	(1.003)	1552890	120.000	120.6
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.000)	559932	120.000	140.1
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.020)	1323201	120.000	137.2
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	2050015	120.000	148.2
144 Benzo(b)fluoranthene	252	16.054	16.054	(0.965)	1218559	120.000	106.9
145 Benzo(k)fluoranthene	252	16.054	16.054	(0.965)	1218559	120.000	101.6
147 Benzo(e)pyrene	252	16.479	16.479	(0.991)	1290687	120.000	126.6
148 Benzo(a)pyrene	252	16.552	16.552	(0.995)	1439493	120.000	131.6
151 Indeno(1,2,3-cd)pyrene	276	18.438	18.438	(1.108)	1469020	120.000	157.3
152 Dibenzo(a,h)anthracene	278	18.490	18.490	(1.112)	1266146	120.000	132.0
153 Benzo(g,h,i)perylene	276	18.935	18.935	(1.138)	1346327	120.000	130.7

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				2437118	120.000	104.2(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: HSL0817F.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\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	139429	10.39
2 Naphthalene-d8	544958	272479	1089916	625330	14.75
3 Acenaphthene-d10	283970	141985	567940	328417	15.65
4 Phenanthrene-d10	451801	225901	903602	510963	13.09
5 Chrysene-d12	438936	219468	877872	464837	5.90
6 Perylene-d12	413868	206934	827736	436720	5.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	-0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	-0.00
5 Chrysene-d12	14.23	13.73	14.73	14.24	0.07
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

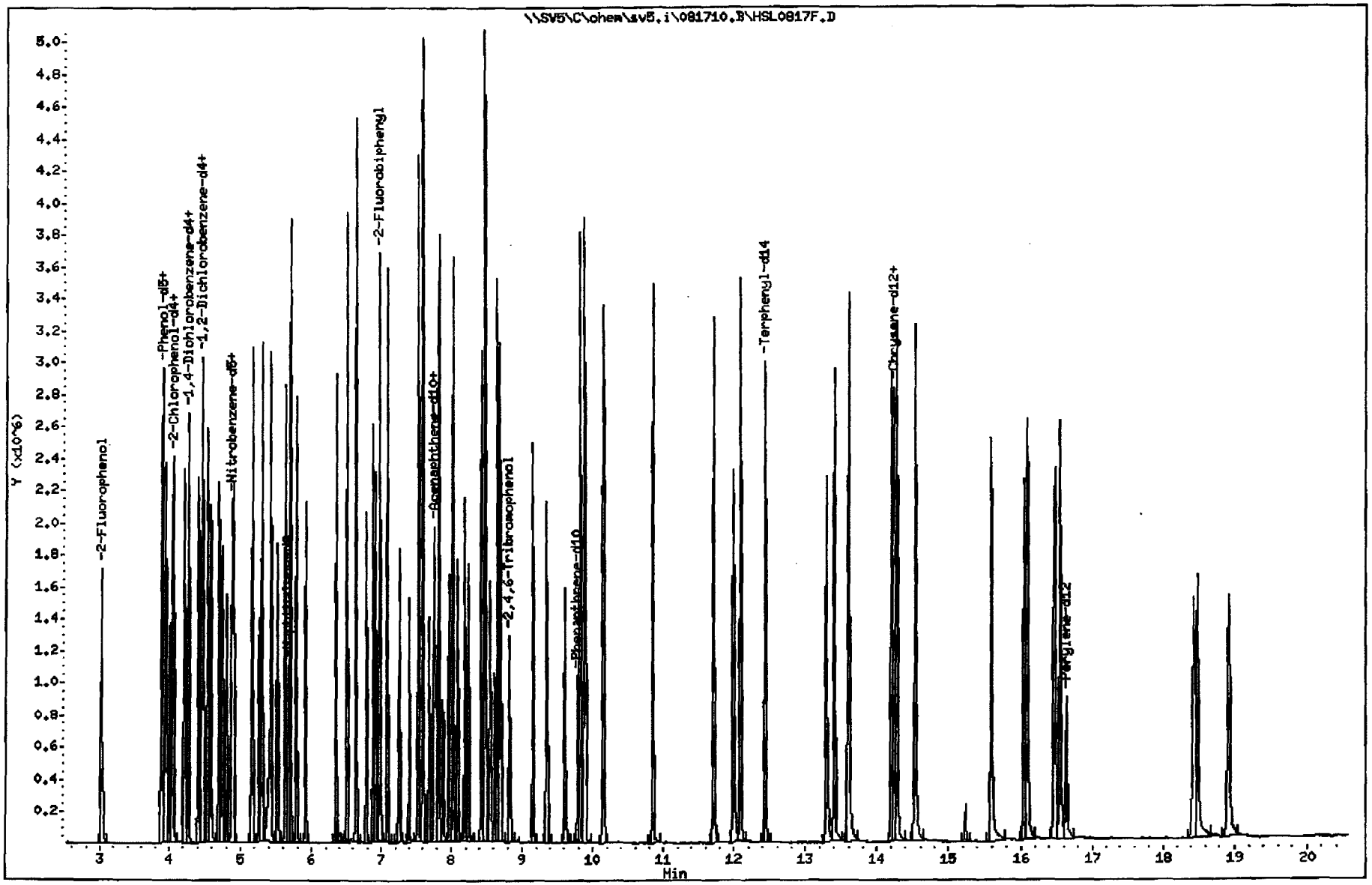
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817F.D
Date : 17-AUG-2010 19:41
Client ID: 8270F,M
Sample Info: HSL_120 ug/ml CS-6;1;;6;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817G.D
Lab Smp Id: HSL_160 ug/ml CS-7 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 20:08
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 14:47 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 8 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	4.251	4.251	(1.000)	126191	40.0000	(Q)
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	564864	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.785	(1.000)	292038	40.0000	
* 4	Phenanthrene-d10	188	9.795	9.785	(1.000)	460566	40.0000	
* 5	Chrysene-d12	240	14.241	14.230	(1.000)	436462	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	416236	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	748353	160.000	161.5(A)
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	976738	160.000	163.9(A)
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	814719	160.000	164.0(A)
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	488171	160.000	156.7
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	819133	160.000	166.6(A)
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	1499098	160.000	162.3(A)
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	192238	160.000	184.8(A)
$ 14	Terphenyl-d14	244	12.438	12.438	(0.873)	1408654	160.000	165.0(A)
15	N-Nitrosodimethylamine	74	2.002	1.992	(0.471)	524261	160.000	162.6(A)
16	Pyridine	79	2.023	2.023	(0.476)	855740	160.000	158.9
23	Aniline	93	3.950	3.950	(0.929)	1226659	160.000	161.2(A)
24	Phenol	94	3.909	3.899	(0.920)	1032385	160.000	163.3(A)
26	Bis(2-chloroethyl)ether	93	4.012	4.002	(0.944)	774496	160.000	157.0
27	2-Chlorophenol	128	4.064	4.064	(0.956)	806251	160.000	161.6(A)
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	871579	160.000	158.5
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	898742	160.000	159.4
30	Benzyl Alcohol	108	4.417	4.406	(1.039)	567973	160.000	169.0(A)
31	1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	833842	160.000	160.7(A)
32	2-Methylphenol	108	4.541	4.541	(1.068)	778979	160.000	164.3(A)
33	2,2'-oxybis(1-Chloropropane)	45	4.593	4.582	(1.080)	1585274	160.000	160.1(A)
34	4-Methylphenol	108	4.707	4.696	(1.107)	822650	160.000	166.2(Aq)
36	Hexachloroethane	117	4.800	4.800	(1.129)	316185	160.000	164.7(A)
37	N-Nitrosodinpropylamine	70	4.748	4.738	(1.117)	592619	160.000	167.4(A)
42	Nitrobenzene	77	4.904	4.904	(0.865)	813461	160.000	164.6(A)
44	Isophorone	82	5.163	5.163	(0.910)	1592439	160.000	163.7(A)
45	2-Nitrophenol	139	5.266	5.266	(0.929)	434379	160.000	181.7(Aq)
46	2,4-Dimethyphenol	107	5.297	5.298	(0.934)	840917	160.000	164.8(A)

8/18/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	912216	160.000	160.0(H)
49	2,4-Dichlorophenol	162	5.525	5.515	(0.974)	591784	160.000	165.8(A)
50	Benzoic Acid	122	5.432	5.380	(0.958)	462275	160.000	159.0(q)
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	625629	160.000	156.5
52	Naphthalene	128	5.702	5.691	(1.005)	2505571	160.000	157.2
54	4-Chloroaniline	127	5.785	5.785	(1.020)	1001207	160.000	160.7(A)
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	296935	160.000	159.7
60	4-Chloro-3-Methylphenol	107	6.354	6.355	(1.121)	718359	160.000	169.1(A)
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	1575917	160.000	162.0(A)
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	357989	160.000	181.7(A)
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	365278	160.000	167.7(A)
70	2,4,5-Trichlorphenol	196	6.924	6.925	(0.888)	400348	160.000	169.9(A)
71	2-Chloronaphthalene	162	7.090	7.090	(0.910)	1330045	160.000	162.0(A)
73	2-Nitroaniline	65	7.256	7.256	(0.931)	460982	160.000	182.4(A)
76	Dimethylphthalate	163	7.536	7.526	(0.967)	1555074	160.000	162.3(A)
77	Acenaphthylene	152	7.608	7.598	(0.976)	2365937	160.000	165.3(AH)
79	2,6-Dinitrotoluene	165	7.608	7.608	(0.976)	351080	160.000	173.0(AH)
80	3-Nitroaniline	138	7.774	7.764	(0.997)	478331	160.000	177.8(A)
81	Acenaphthene	153	7.836	7.826	(1.005)	1466591	160.000	159.5
82	2,4-Dinitrophenol	184	7.899	7.888	(1.013)	199866	160.000	158.6
83	Dibenzofuran	168	8.033	8.033	(1.031)	1921323	160.000	159.1
84	4-Nitrophenol	109	7.971	7.971	(1.023)	211597	160.000	178.9(A)
86	2,4-Dinitrotoluene	165	8.095	8.085	(1.039)	483512	160.000	162.3(AH)
91	Fluorene	166	8.479	8.479	(1.088)	1559294	160.000	158.8
92	Diethylphthalate	149	8.437	8.427	(1.082)	1617551	160.000	157.8
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	637322	160.000	158.5
94	4-Nitroaniline	138	8.562	8.552	(1.098)	462727	160.000	176.3(A)
97	4,6-Dinitro-2-methylphenol	198	8.624	8.614	(0.880)	242445	160.000	158.6
98	N-Nitrosodiphenylamine	169	8.665	8.655	(0.885)	1319767	187.000	187.8(A)
100	Azobenzene	77	8.697	8.697	(0.888)	1691994	160.000	161.7(A)
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.934)	350470	160.000	161.5(A)
108	Hexachlorobenzene	284	9.360	9.349	(0.956)	377649	160.000	158.4
110	Pentachlorophenol	266	9.608	9.609	(0.981)	247507	160.000	187.4(A)
114	Phenanthrene	178	9.826	9.816	(1.003)	2276259	160.000	156.9
115	Anthracene	178	9.888	9.888	(1.010)	2336447	160.000	163.7(A)
118	Carbazole	167	10.158	10.147	(1.037)	2185149	160.000	163.9(A)
120	Di-n-Butylphthalate	149	10.852	10.852	(1.108)	2777919	160.000	174.3(A)
126	Fluoranthene	202	11.723	11.723	(1.197)	2077388	160.000	165.6(A)
127	Benzidine	184	11.992	11.992	(0.842)	1564108	160.000	158.4
128	Pyrene	202	12.096	12.085	(0.849)	2285782	160.000	163.9(A)
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	1380723	160.000	159.2
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	1233766	160.000	183.4(A)
138	Benzo(a)Anthracene	228	14.210	14.199	(0.998)	1924562	160.000	169.3(A)
139	Chrysene	228	14.282	14.272	(1.003)	1916294	160.000	158.7
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.000)	716245	160.000	185.8(A)
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.020)	1691198	160.000	182.3(A)
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	2721372	160.000	159.8
144	Benzo(b)fluoranthene	252	16.054	16.044	(0.965)	1740781	160.000	182.2(A)
145	Benzo(k)fluoranthene	252	16.096	16.085	(0.968)	1880675	160.000	157.2(H)
147	Benzo(e)pyrene	252	16.479	16.469	(0.991)	1660971	160.000	169.3(A)
148	Benzo(a)pyrene	252	16.552	16.541	(0.995)	1820736	160.000	172.4(A)
151	Indeno(1,2,3-cd)pyrene	276	18.438	18.428	(1.108)	1476786	160.000	177.5(A)
152	Dibenzo(a,h)anthracene	278	18.490	18.469	(1.112)	1670318	160.000	179.1(A)
153	Benzo(g,h,i)perylene	276	18.935	18.915	(1.138)	1694161	160.000	170.6(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				3621456	160.000	168.3 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\081710.B\HSL0817G.D
Lab Smp Id: HSL_160 ug/ml CS-7 Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 20:08
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:21 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 20:08 Cal File: HSL0817G.D
Als bottle: 8 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)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	126191	40.0000	
* 2	Naphthalene-d8	136	5.671	5.671	(1.000)	564864	40.0000	
* 3	Acenaphthene-d10	164	7.795	7.795	(1.000)	292038	40.0000	
* 4	Phenanthrene-d10	188	9.795	9.795	(1.000)	460566	40.0000	
* 5	Chrysene-d12	240	14.241	14.241	(1.000)	436462	40.0000	
* 6	Perylene-d12	264	16.635	16.635	(1.000)	416236	40.0000	
$ 7	2-Fluorophenol	112	3.018	3.018	(0.710)	748353	160.000	161.5(A)
$ 8	Phenol-d5	99	3.888	3.888	(0.915)	976738	160.000	163.9(A)
$ 9	2-Chlorophenol-d4	132	4.044	4.044	(0.951)	814719	160.000	164.0(A)
$ 10	1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	488171	160.000	156.7
$ 11	Nitrobenzene-d5	82	4.883	4.883	(0.861)	819133	160.000	164.7(A)
$ 12	2-Fluorobiphenyl	172	6.987	6.987	(0.896)	1499098	160.000	162.3(A)
$ 13	2,4,6-Tribromophenol	330	8.831	8.831	(1.133)	192238	160.000	184.8(A)
$ 14	Terphenyl-d14	244	12.438	12.438	(0.873)	1408654	160.000	165.0(A)
15	N-Nitrosodimethylamine	74	2.002	2.002	(0.471)	524261	160.000	167.1(A)
16	Pyridine	79	2.023	2.023	(0.476)	855740	160.000	164.6(A)
23	Aniline	93	3.950	3.950	(0.929)	1226659	160.000	161.2(A)
24	Phenol	94	3.909	3.909	(0.920)	1032385	160.000	163.3(A)
26	Bis(2-chloroethyl)ether	93	4.012	4.012	(0.944)	774496	160.000	157.0
27	2-Chlorophenol	128	4.064	4.064	(0.956)	806251	160.000	161.6(A)
28	1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	871579	160.000	158.5
29	1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	898742	160.000	159.4
30	Benzyl Alcohol	108	4.417	4.417	(1.039)	567973	160.000	169.0(A)
31	1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	833842	160.000	160.7(A)
32	2-Methylphenol	108	4.541	4.541	(1.068)	778979	160.000	164.3(A)
33	2,2'-oxybis(1-Chloropropane)	45	4.593	4.593	(1.080)	1585274	160.000	160.1(A)
34	4-Methylphenol	108	4.707	4.707	(1.107)	822650	160.000	166.2(A)
36	Hexachloroethane	117	4.800	4.800	(1.129)	316185	160.000	164.7(A)
37	N-Nitrosodinpropylamine	70	4.748	4.748	(1.117)	592619	160.000	167.4(A)
42	Nitrobenzene	77	4.904	4.904	(0.865)	813461	160.000	164.6(A)
44	Isophorone	82	5.163	5.163	(0.910)	1592439	160.000	163.7(A)
45	2-Nitrophenol	139	5.266	5.266	(0.929)	434379	160.000	181.7(A)
46	2,4-Dimethyphenol	107	5.297	5.297	(0.934)	840917	160.000	164.8(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.266	5.266	(0.929)	68861	160.000	68.17
49 2,4-Dichlorophenol	162	5.525	5.525	(0.974)	591784	160.000	162.4(A)
50 Benzoic Acid	122	5.432	5.432	(0.958)	462275	160.000	201.6(A)
51 1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	625629	160.000	156.5
52 Naphthalene	128	5.702	5.702	(1.005)	2505571	160.000	156.0
54 4-Chloroaniline	127	5.785	5.785	(1.020)	1001207	160.000	160.7(A)
57 Hexachlorobutadiene	225	5.919	5.919	(1.044)	296935	160.000	159.7
60 4-Chloro-3-Methylphenol	107	6.354	6.354	(1.121)	718359	160.000	169.1(A)
63 2-Methylnaphthalene	142	6.510	6.510	(1.148)	1575917	160.000	162.0(A)
66 Hexachlorocyclopentadiene	237	6.790	6.790	(0.871)	357989	160.000	181.7(A)
69 2,4,6-Trichlorophenol	196	6.883	6.883	(0.883)	365278	160.000	167.7(A)
70 2,4,5-Trichlorphenol	196	6.924	6.924	(0.888)	400348	160.000	169.9(A)
71 2-Chloronaphthalene	162	7.090	7.090	(0.910)	1330045	160.000	162.0(A)
73 2-Nitroaniline	65	7.256	7.256	(0.931)	460982	160.000	182.4(A)
76 Dimethylphthalate	163	7.536	7.536	(0.967)	1555074	160.000	162.3(A)
77 Acenaphthylene	152	7.836	7.836	(1.005)	691449	160.000	159.1
79 2,6-Dinitrotoluene	165	7.795	7.795	(1.000)	36150	160.000	17.17
80 3-Nitroaniline	138	7.774	7.774	(0.997)	478331	160.000	177.8(A)
81 Acenaphthene	153	7.836	7.836	(1.005)	1466591	160.000	159.5
82 2,4-Dinitrophenol	184	7.899	7.899	(1.013)	199866	160.000	250.2(A)
83 Dibenzofuran	168	8.033	8.033	(1.031)	1921323	160.000	159.1
84 4-Nitrophenol	109	7.971	7.971	(1.023)	211597	160.000	178.9(A)
86 2,4-Dinitrotoluene	165	7.795	7.795	(1.000)	36150	160.000	17.17
91 Fluorene	166	8.479	8.479	(1.088)	1559294	160.000	158.8
92 Diethylphthalate	149	8.437	8.437	(1.082)	1617551	160.000	157.8
93 4-Chlorophenyl-phenylether	204	8.489	8.489	(1.089)	637322	160.000	158.5
94 4-Nitroaniline	138	8.562	8.562	(1.098)	462727	160.000	176.3(A)
97 4,6-Dinitro-2-methylphenol	198	8.624	8.624	(0.880)	242445	160.000	213.3(A)
98 N-Nitrosodiphenylamine	169	8.665	8.665	(0.885)	1319767	187.000	187.8(A)
100 Azobenzene	77	8.697	8.697	(0.888)	1691994	160.000	161.7(A)
101 4-Bromophenyl-phenylether	248	9.153	9.153	(0.934)	350470	160.000	161.5(A)
108 Hexachlorobenzene	284	9.360	9.360	(0.956)	377649	160.000	158.4
110 Pentachlorophenol	266	9.608	9.608	(0.981)	247507	160.000	187.4(A)
114 Phenanthrene	178	9.826	9.826	(1.003)	2276259	160.000	156.9
115 Anthracene	178	9.888	9.888	(1.010)	2336447	160.000	163.7(A)
118 Carbazole	167	10.158	10.158	(1.037)	2185149	160.000	163.9(A)
120 Di-n-Butylphthalate	149	10.852	10.852	(1.108)	2777919	160.000	174.3(A)
126 Fluoranthene	202	11.723	11.723	(1.197)	2077388	160.000	165.6(A)
127 Benzidine	184	11.992	11.992	(0.842)	1564108	160.000	196.0(A)
128 Pyrene	202	12.096	12.096	(0.849)	2285782	160.000	163.9(A)
134 3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	1380723	160.000	200.6(A)
136 Butylbenzylphthalate	149	13.412	13.412	(0.942)	1233766	160.000	183.4(A)
138 Benzo(a)Anthracene	228	14.210	14.210	(0.998)	1924562	160.000	169.3(A)
139 Chrysene	228	14.282	14.282	(1.003)	1916294	160.000	158.7
140 3,3'-Dichlorobenzidine	252	14.241	14.241	(1.000)	716245	160.000	185.8(A)
141 bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.020)	1691198	160.000	182.3(A)
142 Di-n-octylphthalate	149	15.588	15.588	(1.095)	2721372	160.000	200.7(A)
144 Benzo(b)fluoranthene	252	16.054	16.054	(0.965)	1740781	160.000	160.2(A)
145 Benzo(k)fluoranthene	252	16.054	16.054	(0.965)	1740781	160.000	153.4
147 Benzo(e)pyrene	252	16.479	16.479	(0.991)	1660971	160.000	169.3(A)
148 Benzo(a)pyrene	252	16.552	16.552	(0.995)	1820736	160.000	172.4(A)
151 Indeno(1,2,3-cd)pyrene	276	18.438	18.438	(1.108)	1476786	160.000	165.0(A)
152 Dibenzo(a,h)anthracene	278	18.490	18.490	(1.112)	1670318	160.000	179.1(A)
153 Benzo(g,h,i)perylene	276	18.935	18.935	(1.138)	1694161	160.000	170.6(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				3481562	160.000	156.7(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: HSL0817G.D
Lab Smp Id: HSL_160 ug/ml CS-7
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	126191	-0.09
2 Naphthalene-d8	544958	272479	1089916	564864	3.65
3 Acenaphthene-d10	283970	141985	567940	292038	2.84
4 Phenanthrene-d10	451801	225901	903602	460566	1.94
5 Chrysene-d12	438936	219468	877872	436462	-0.56
6 Perylene-d12	413868	206934	827736	416236	0.57

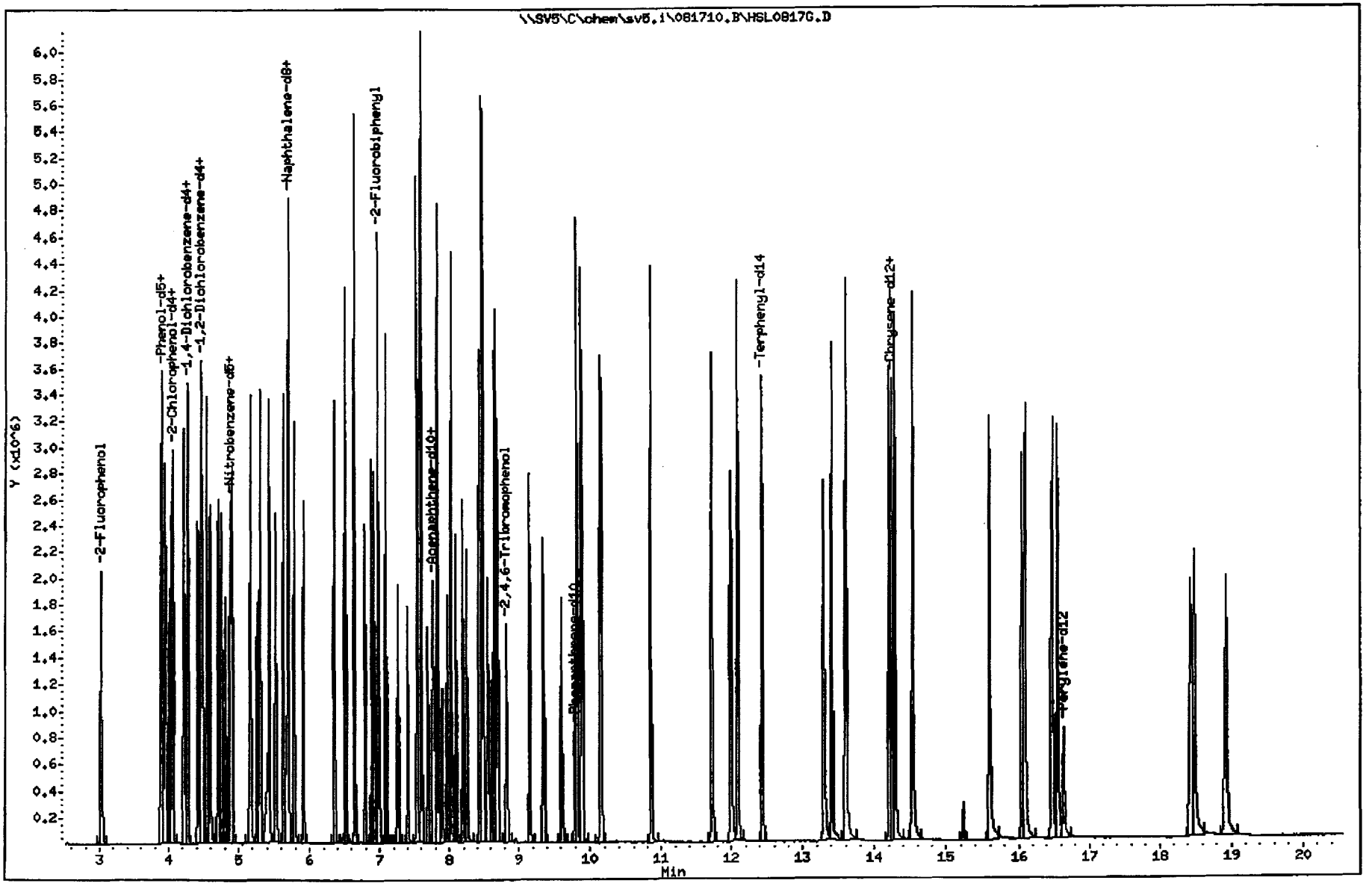
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	-0.01
2 Naphthalene-d8	5.67	5.17	6.17	5.67	-0.00
3 Acenaphthene-d10	7.80	7.30	8.30	7.80	-0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.80	0.10
5 Chrysene-d12	14.23	13.73	14.73	14.24	0.07
6 Perylene-d12	16.64	16.14	17.14	16.64	-0.00

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

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817G.D
Date : 17-AUG-2010 20:08
Client ID: 8270F.M
Sample Info: HSL_160 ug/ml CS-7;1;;7;;;;;4

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

Column phase:



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 17-AUG-2010 20:34
Lab File ID: HSL0817H.D Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Analysis Type: Init. Cal. Times: 17:32 23:55
Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\081710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.46886	1.47942	1.47942	0.010	0.71935	50.00000	Averaged
$ 8 Phenol-d5	1.88858	1.90785	1.90785	0.010	1.02001	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.57465	1.59682	1.59682	0.010	1.40823	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98736	0.97004	0.97004	0.010	-1.75419	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.34812	0.35436	0.35436	0.010	1.79123	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.26481	1.24579	1.24579	0.010	-1.50389	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.14248	0.15544	0.15544	0.010	9.09443	50.00000	Averaged
$ 14 Terphenyl-d14	0.78234	0.78148	0.78148	0.010	-0.11047	50.00000	Averaged
15 N-Nitrosodimethylamine	1.02221	1.02148	1.02148	0.010	-0.07123	50.00000	Averaged
16 Pyridine	1.70686	1.77298	1.77298	0.010	3.87399	50.00000	Averaged
23 Aniline	2.41175	2.44313	2.44313	0.010	1.30084	50.00000	Averaged
24 Phenol	2.00373	2.06385	2.06385	0.010	3.00060	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.56419	1.59132	1.59132	0.010	1.73462	50.00000	Averaged
27 2-Chlorophenol	1.58151	1.57812	1.57812	0.010	-0.21456	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74308	1.74003	1.74003	0.010	-0.17503	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78698	1.78160	1.78160	0.010	-0.30111	20.00000	Averaged
30 Benzyl Alcohol	1.06550	1.08049	1.08049	0.010	1.40686	50.00000	Averaged
31 1,2-Dichlorobenzene	1.64484	1.69356	1.69356	0.010	2.96198	50.00000	Averaged
32 2-Methylphenol	1.50265	1.52051	1.52051	0.010	1.18892	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	3.13925	3.18145	3.18145	0.010	1.34412	50.00000	Averaged
34 4-Methylphenol	1.56887	1.52786	1.52786	0.010	-2.61426	50.00000	Averaged
36 Hexachloroethane	0.60856	0.61549	0.61549	0.010	1.13956	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.12205	1.16680	1.16680	0.050	3.98782	50.00000	Averaged
42 Nitrobenzene	0.34995	0.36344	0.36344	0.010	3.85499	50.00000	Averaged
44 Isophorone	0.68899	0.68853	0.68853	0.010	-0.06642	50.00000	Averaged
45 2-Nitrophenol	0.16925	0.17949	0.17949	0.010	6.05102	20.00000	Averaged
46 2,4-Dimethyphenol	0.36121	0.36301	0.36301	0.010	0.49868	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40385	0.39338	0.39338	0.010	-2.59181	50.00000	Averaged
49 2,4-Dichlorophenol	0.25282	0.26312	0.26312	0.010	4.07368	20.00000	Averaged
50 Benzoic Acid	50.00000	47.38682	0.15479	0.010	-5.22637	0.000e+000	Quadratic
51 1,2,4-Trichlorobenzene	0.28311	0.27105	0.27105	0.010	-4.25746	50.00000	Averaged
52 Naphthalene	1.12878	1.09311	1.09311	0.010	-3.16030	50.00000	Averaged
54 4-Chloroaniline	0.44121	0.43485	0.43485	0.010	-1.43950	50.00000	Averaged
57 Hexachlorobutadiene	0.13163	0.13636	0.13636	0.010	3.59102	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30081	0.31122	0.31122	0.010	3.46234	20.00000	Averaged
63 2-Methylnaphthalene	0.68895	0.68720	0.68720	0.010	-0.25334	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.26987	0.30261	0.30261	0.050	12.13207	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.29827	0.29930	0.29930	0.010	0.34567	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.32276	0.34436	0.34436	0.010	6.69199	50.00000	Averaged
71 2-Chloronaphthalene	1.12450	1.12965	1.12965	0.010	0.45787	50.00000	Averaged
73 2-Nitroaniline	0.34605	0.37036	0.37036	0.010	7.02575	50.00000	Averaged
76 Dimethylphthalate	1.31267	1.30495	1.30495	0.010	-0.58788	50.00000	Averaged

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TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 17-AUG-2010 20:34
Lab File ID: HSL0817H.D Init. Cal. Date(s): 17-AUG-2010 17-AUG-2010
Analysis Type: Init. Cal. Times: 17:32 23:55
Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\081710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96062	1.95353	1.95353	0.010	-0.36162	50.00000	Averaged
79 2,6-Dinitrotoluene	0.27795	0.28148	0.28148	0.010	1.27025	50.00000	Averaged
80 3-Nitroaniline	0.36843	0.38274	0.38274	0.010	3.88673	50.00000	Averaged
81 Acenaphthene	1.25957	1.23402	1.23402	0.010	-2.02891	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	49.13364	0.12323	0.050	-1.73271	0.000e+000	Quadratic
83 Dibenzofuran	1.65377	1.64112	1.64112	0.010	-0.76533	50.00000	Averaged
84 4-Nitrophenol	0.16197	0.17816	0.17816	0.050	9.99524	50.00000	Averaged
86 2,4-Dinitrotoluene	50.00000	49.20397	0.37448	0.010	-1.59207	0.000e+000	Linear
91 Fluorene	1.34529	1.35247	1.35247	0.010	0.53394	50.00000	Averaged
92 Diethylphthalate	1.40387	1.36899	1.36899	0.010	-2.48456	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55070	0.57586	0.57586	0.010	4.56823	50.00000	Averaged
94 4-Nitroaniline	0.35951	0.38334	0.38334	0.010	6.63047	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	48.44324	0.10673	0.010	-3.11351	0.000e+000	Quadratic
98 N-Nitrosodiphenylamine	0.61032	0.48164	0.48164	0.010	[illegible]	20.00000	Averaged
100 Azobenzene	0.90868	0.94178	0.94178	0.010	3.64310	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.18844	0.18195	0.18195	0.010	-3.44453	50.00000	Averaged
108 Hexachlorobenzene	0.20706	0.20132	0.20132	0.010	-2.76872	50.00000	Averaged
110 Pentachlorophenol	0.11470	0.12178	0.12178	0.010	6.16994	20.00000	Averaged
114 Phenanthrene	1.26018	1.21817	1.21817	0.010	-3.33338	50.00000	Averaged
115 Anthracene	1.23982	1.21879	1.21879	0.010	-1.69633	50.00000	Averaged
118 Carbazole	1.15818	1.16630	1.16630	0.010	0.70153	50.00000	Averaged
120 Di-n-Butylphthalate	1.38426	1.41494	1.41494	0.010	2.21648	50.00000	Averaged
126 Fluoranthene	1.08922	1.12272	1.12272	0.010	3.07610	20.00000	Averaged
127 Benzidine	50.00000	40.15264	0.60008	0.010	-19.69472	0.000e+000	Quadratic
128 Pyrene	1.27830	1.25492	1.25492	0.010	-1.82921	50.00000	Averaged
134 3,3'-dimethylbenzidine	50.00000	36.81539	0.47385	0.010	-26.36921	0.000e+000	Quadratic
136 Butylbenzylphthalate	0.61636	0.63074	0.63074	0.010	2.33285	50.00000	Averaged
138 Benzo(a)Anthracene	1.04161	0.98567	0.98567	0.010	-5.37116	50.00000	Averaged
139 Chrysene	1.10690	1.06401	1.06401	0.010	-3.87406	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.35334	0.35504	0.35504	0.010	0.48216	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.84997	0.85221	0.85221	0.010	0.26368	50.00000	Averaged
142 Di-n-octylphthalate	50.00000	49.33905	1.29232	0.010	-1.32191	0.000e+000	Quadratic
144 Benzo(b)fluoranthene	0.91826	0.98370	0.98370	0.010	7.12648	50.00000	Averaged
145 Benzo(k)fluoranthene	1.14994	1.17590	1.17590	0.010	2.25759	50.00000	Averaged
147 Benzo(e)pyrene	0.94298	0.98886	0.98886	0.010	4.86545	50.00000	Averaged
148 Benzo(a)pyrene	1.01493	0.91510	0.91510	0.010	-9.83569	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.79966	0.86436	0.86436	0.010	8.09050	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.89625	0.93316	0.93316	0.010	4.11796	50.00000	Averaged
153 Benzo(g,h,i)perylene	0.95399	0.99650	0.99650	0.010	4.45547	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06820	2.15960	2.15960	0.010	4.41933	50.00000	Averaged

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TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\081710.B\HSL0817H.D
Lab Smp Id: HSL_050 ug/ml ICV Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 20:34
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\081710.B\8270f.m
Meth Date : 18-Aug-2010 15:18 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D
Als bottle: 9 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)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	114455	40.0000	
*	2 Naphthalene-d8	136	5.671	5.671	(1.000)	506932	40.0000	
*	3 Acenaphthene-d10	164	7.785	7.785	(1.000)	264293	40.0000	
*	4 Phenanthrene-d10	188	9.785	9.785	(1.000)	418038	40.0000	
*	5 Chrysene-d12	240	14.230	14.230	(1.000)	401690	40.0000	
*	6 Perylene-d12	264	16.635	16.635	(1.000)	369471	40.0000	
$	7 2-Fluorophenol	112	3.018	3.018	(0.710)	211659	50.0000	50.36
$	8 Phenol-d5	99	3.888	3.888	(0.915)	272953	50.0000	50.51
$	9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	228455	50.0000	50.70
$	10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	138782	50.0000	49.12
$	11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	224545	50.0000	50.90
$	12 2-Fluorobiphenyl	172	6.987	6.987	(0.898)	411568	50.0000	49.25
$	13 2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	51352	50.0000	54.55
$	14 Terphenyl-d14	244	12.438	12.438	(0.874)	392389	50.0000	49.94
	15 N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	146142	50.0000	49.96
	16 Pyridine	79	2.023	2.023	(0.476)	253658	50.0000	51.94
	23 Aniline	93	3.950	3.950	(0.929)	349535	50.0000	50.65
	24 Phenol	94	3.899	3.899	(0.917)	295273	50.0000	51.50
	26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	227668	50.0000	50.87
	27 2-Chlorophenol	128	4.064	4.064	(0.956)	225779	50.0000	49.89
	28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	248944	50.0000	49.91
	29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	254891	50.0000	49.85
	30 Benzyl Alcohol	108	4.406	4.406	(1.037)	154585	50.0000	50.70
	31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	242296	50.0000	51.48
	32 2-Methylphenol	108	4.541	4.541	(1.068)	217538	50.0000	50.59
	33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	455166	50.0000	50.67
	34 4-Methylphenol	108	4.696	4.696	(1.105)	218589	50.0000	48.69
	36 Hexachloroethane	117	4.800	4.800	(1.129)	88058	50.0000	50.57
	37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	166932	50.0000	51.99
	42 Nitrobenzene	77	4.904	4.904	(0.865)	230302	50.0000	51.93
	44 Isophorone	82	5.163	5.163	(0.910)	436299	50.0000	49.97
	45 2-Nitrophenol	139	5.266	5.266	(0.929)	113737	50.0000	53.02
	46 2,4-Dimethyphenol	107	5.298	5.298	(0.934)	230025	50.0000	50.25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	249273	50.0000	48.70
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	166731	50.0000	52.04
50	Benzoic Acid	122	5.380	5.380	(0.949)	98085	50.0000	47.39
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	171758	50.0000	47.87
52	Naphthalene	128	5.691	5.691	(1.004)	692666	50.0000	48.42
54	4-Chloroaniline	127	5.785	5.785	(1.020)	275552	50.0000	49.28
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	86407	50.0000	51.80
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	197211	50.0000	51.73
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	435455	50.0000	49.87
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	99971	50.0000	56.07
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	98880	50.0000	50.17
70	2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	113765	50.0000	53.34
71	2-Chloronaphthalene	162	7.090	7.090	(0.911)	373199	50.0000	50.23
73	2-Nitroaniline	65	7.256	7.256	(0.932)	122355	50.0000	53.51
76	Dimethylphthalate	163	7.526	7.526	(0.967)	431111	50.0000	49.71
77	Acenaphthylene	152	7.598	7.598	(0.976)	645382	50.0000	49.82
79	2,6-Dinitrotoluene	165	7.608	7.608	(0.977)	92992	50.0000	50.64(M)
80	3-Nitroaniline	138	7.764	7.764	(0.997)	126446	50.0000	51.94
81	Acenaphthene	153	7.826	7.826	(1.005)	407677	50.0000	48.98
82	2,4-Dinitrophenol	184	7.888	7.888	(1.013)	40711	50.0000	49.13
83	Dibenzofuran	168	8.033	8.033	(1.032)	542170	50.0000	49.62
84	4-Nitrophenol	109	7.971	7.971	(1.024)	58859	50.0000	55.00
86	2,4-Dinitrotoluene	165	8.085	8.085	(1.039)	123715	50.0000	49.20
91	Fluorene	166	8.479	8.479	(1.089)	446810	50.0000	50.27
92	Diethylphthalate	149	8.427	8.427	(1.083)	452268	50.0000	48.76
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	190245	50.0000	52.28
94	4-Nitroaniline	138	8.552	8.552	(1.099)	126644	50.0000	53.32
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	55773	50.0000	48.44
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	294966	~~58.6000~~ 50	46.24
100	Azobenzene	77	8.697	8.697	(0.889)	492127	50.0000	51.82
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	95079	50.0000	48.28
108	Hexachlorobenzene	284	9.349	9.349	(0.956)	105201	50.0000	48.62
110	Pentachlorophenol	266	9.609	9.609	(0.982)	63635	50.0000	53.08
114	Phenanthrene	178	9.816	9.816	(1.003)	636554	50.0000	48.33
115	Anthracene	178	9.888	9.888	(1.011)	636874	50.0000	49.15
118	Carbazole	167	10.147	10.147	(1.037)	609448	50.0000	50.35
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	739375	50.0000	51.11
126	Fluoranthene	202	11.723	11.723	(1.198)	586675	50.0000	51.54
127	Benzidine	184	11.992	11.992	(0.843)	301310	50.0000	40.15
128	Pyrene	202	12.085	12.085	(0.849)	630110	50.0000	49.08
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	237925	50.0000	36.82
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	316703	50.0000	51.17
138	Benzo(a)Anthracene	228	14.199	14.199	(0.998)	494915	50.0000	47.31
139	Chrysene	228	14.272	14.272	(1.003)	534255	50.0000	48.06
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	178270	50.0000	50.24
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	427906	50.0000	50.13
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	648889	50.0000	49.34
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	454312	50.0000	53.56
145	Benzo(k)fluoranthene	252	16.085	16.085	(0.967)	543077	50.0000	51.13
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	456692	50.0000	52.43
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	422630	50.0000	45.08
151	Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	399193	50.0000	54.04(M)
152	Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	430969	50.0000	52.06
153	Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	460222	50.0000	52.23

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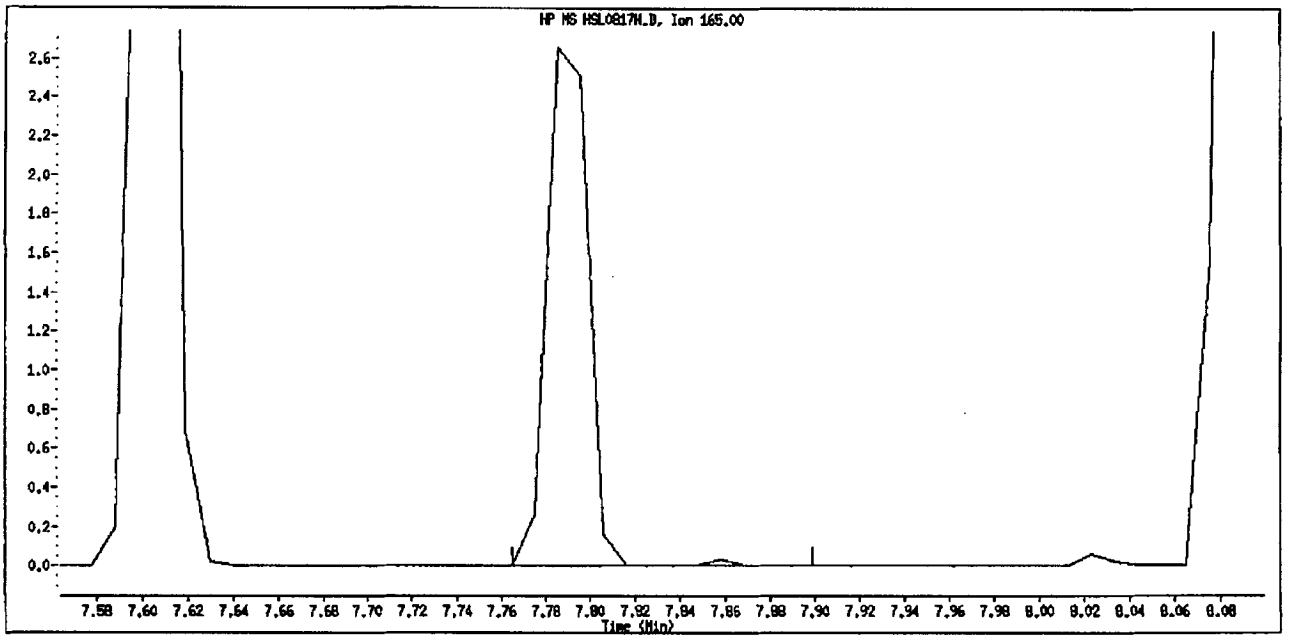
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				997389	50.0000	

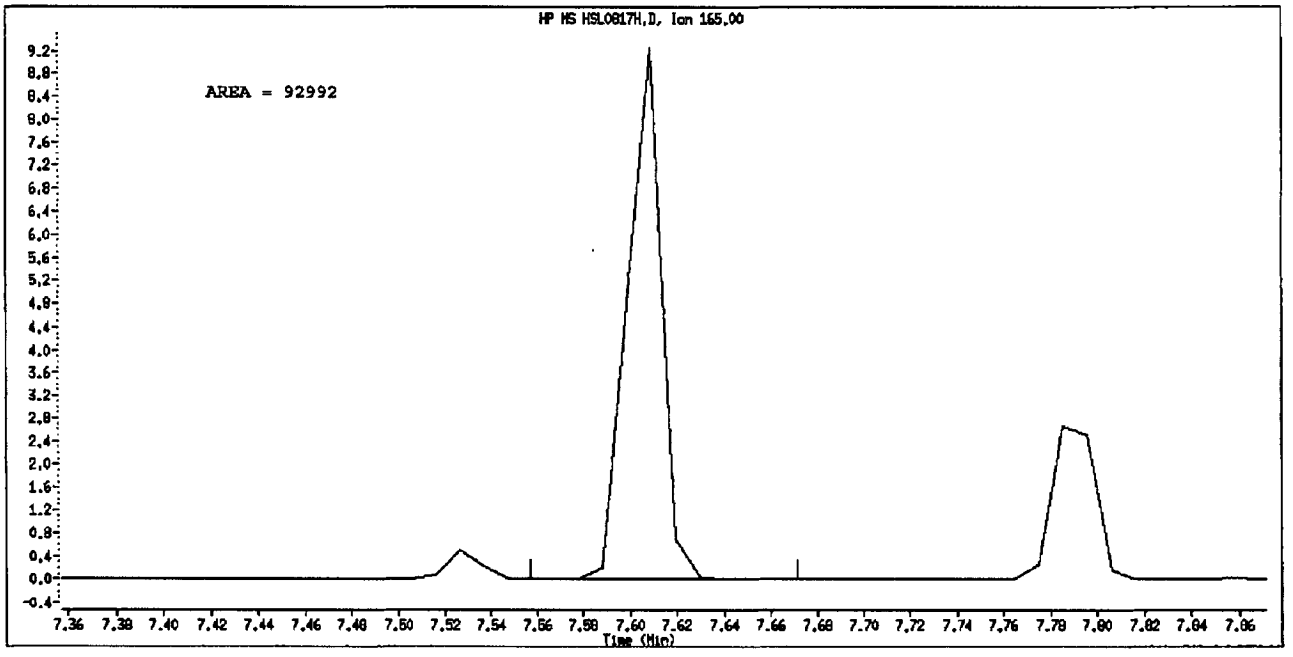
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL0817H.D
Inj. Date and Time: 17-AUG-2010 20:34
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 08/18/2010



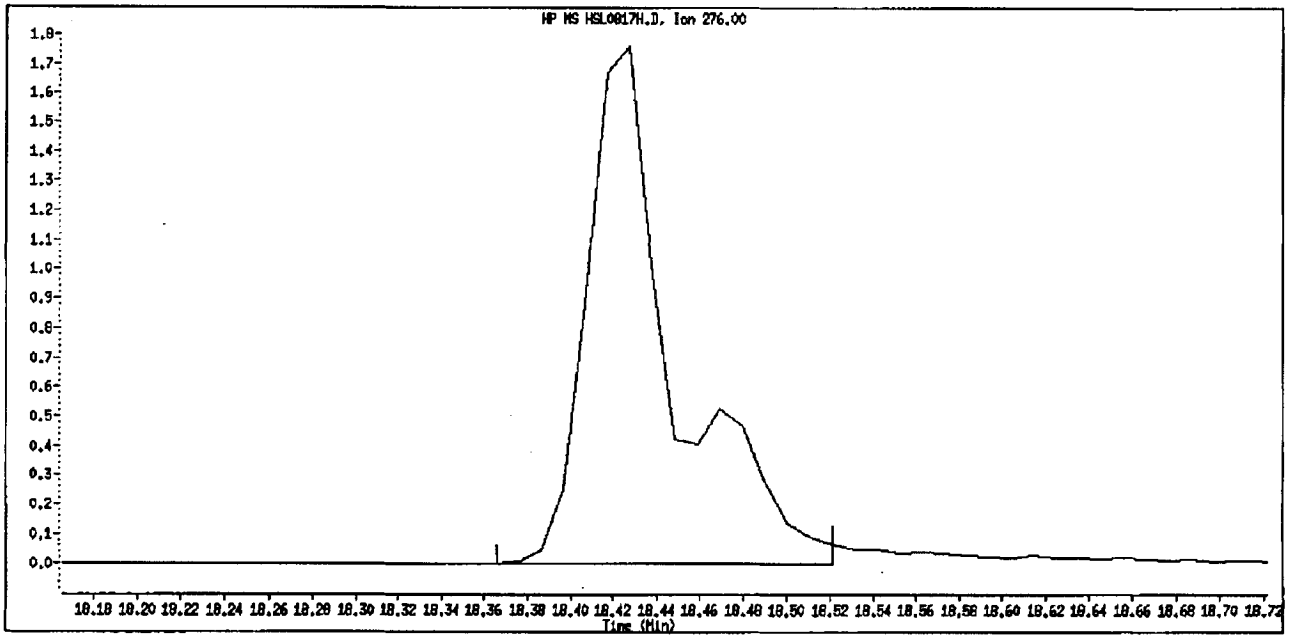
Original Integration



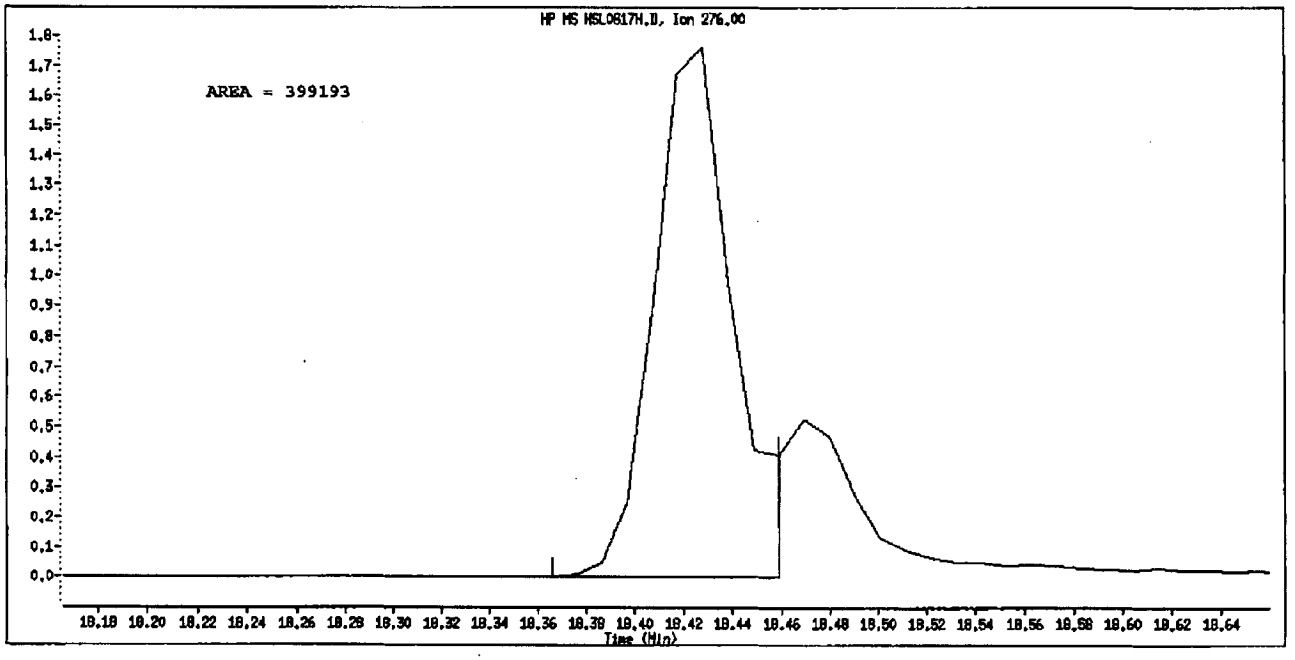
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL0817H.D
Inj. Date and Time: 17-AUG-2010 20:34
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 08/18/2010



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\081710.B\HSL0817H.D
Lab Smp Id: HSL_050 ug/ml ICV Client Smp ID: 8270F.M
Inj Date : 17-AUG-2010 20:34
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\081710.B\8270f.m
Meth Date : 17-Aug-2010 21:39 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 17:32 Cal File: HSL0817D.D
Als bottle: 9 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)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.251	4.251	(1.000)	114455	40.0000	
* 2 Naphthalene-d8	136	5.671	5.671	(1.000)	506932	40.0000	
* 3 Acenaphthene-d10	164	7.785	7.785	(1.000)	264293	40.0000	
* 4 Phenanthrene-d10	188	9.785	9.785	(1.000)	418038	40.0000	
* 5 Chrysene-d12	240	14.230	14.230	(1.000)	401690	40.0000	
* 6 Perylene-d12	264	16.635	16.635	(1.000)	369471	40.0000	
$ 7 2-Fluorophenol	112	3.018	3.018	(0.710)	211659	50.0000	50.36
$ 8 Phenol-d5	99	3.888	3.888	(0.915)	272953	50.0000	50.51
$ 9 2-Chlorophenol-d4	132	4.044	4.044	(0.951)	228455	50.0000	50.70
$ 10 1,2-Dichlorobenzene-d4	152	4.458	4.458	(1.049)	138782	50.0000	49.12
$ 11 Nitrobenzene-d5	82	4.883	4.883	(0.861)	224545	50.0000	50.90
$ 12 2-Fluorobiphenyl	172	6.987	6.987	(0.898)	411568	50.0000	49.25
$ 13 2,4,6-Tribromophenol	330	8.831	8.831	(1.134)	51352	50.0000	54.55
$ 14 Terphenyl-d14	244	12.438	12.438	(0.874)	392389	50.0000	49.94
15 N-Nitrosodimethylamine	74	1.992	1.992	(0.469)	146142	50.0000	49.96
16 Pyridine	79	2.023	2.023	(0.476)	253658	50.0000	51.94
23 Aniline	93	3.950	3.950	(0.929)	349535	50.0000	50.65
24 Phenol	94	3.899	3.899	(0.917)	295273	50.0000	51.50
26 Bis(2-chloroethyl)ether	93	4.002	4.002	(0.941)	227668	50.0000	50.87
27 2-Chlorophenol	128	4.064	4.064	(0.956)	225779	50.0000	49.89
28 1,3-Dichlorobenzene	146	4.220	4.220	(0.993)	248944	50.0000	49.91
29 1,4-Dichlorobenzene	146	4.272	4.272	(1.005)	254891	50.0000	49.85
30 Benzyl Alcohol	108	4.406	4.406	(1.037)	154585	50.0000	50.70
31 1,2-Dichlorobenzene	146	4.468	4.468	(1.051)	242296	50.0000	51.48
32 2-Methylphenol	108	4.541	4.541	(1.068)	217538	50.0000	50.59
33 2,2'-oxybis(1-Chloropropane)	45	4.582	4.582	(1.078)	455166	50.0000	50.67
34 4-Methylphenol	108	4.696	4.696	(1.105)	218589	50.0000	48.69
36 Hexachloroethane	117	4.800	4.800	(1.129)	88058	50.0000	50.57
37 N-Nitrosodinpropylamine	70	4.738	4.738	(1.115)	166932	50.0000	51.99
42 Nitrobenzene	77	4.904	4.904	(0.865)	230302	50.0000	51.93
44 Isophorone	82	5.163	5.163	(0.910)	436299	50.0000	49.97
45 2-Nitrophenol	139	5.266	5.266	(0.929)	113737	50.0000	53.02
46 2,4-Dimethyphenol	107	5.298	5.298	(0.934)	230025	50.0000	50.25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.422	5.422	(0.956)	249273	50.0000	48.70
49	2,4-Dichlorophenol	162	5.515	5.515	(0.973)	166731	50.0000	52.04
50	Benzoic Acid	122	5.380	5.380	(0.949)	98085	50.0000	47.39
51	1,2,4-Trichlorobenzene	180	5.629	5.629	(0.993)	171758	50.0000	47.87
52	Naphthalene	128	5.691	5.691	(1.004)	692666	50.0000	48.42
54	4-Chloroaniline	127	5.785	5.785	(1.020)	275552	50.0000	49.28
57	Hexachlorobutadiene	225	5.919	5.919	(1.044)	86407	50.0000	51.80
60	4-Chloro-3-Methylphenol	107	6.355	6.355	(1.121)	197211	50.0000	51.73
63	2-Methylnaphthalene	142	6.510	6.510	(1.148)	435455	50.0000	49.87
66	Hexachlorocyclopentadiene	237	6.790	6.790	(0.872)	99971	50.0000	56.07
69	2,4,6-Trichlorophenol	196	6.883	6.883	(0.884)	98880	50.0000	50.17
70	2,4,5-Trichlorphenol	196	6.925	6.925	(0.890)	113765	50.0000	53.34
71	2-Chloronaphthalene	162	7.090	7.090	(0.911)	373199	50.0000	50.23
73	2-Nitroaniline	65	7.256	7.256	(0.932)	122355	50.0000	53.51
76	Dimethylphthalate	163	7.526	7.526	(0.967)	431111	50.0000	49.71
77	Acenaphthylene	152	7.598	7.598	(0.976)	645382	50.0000	49.82
79	2,6-Dinitrotoluene	165	7.785	7.785	(1.000)	35026	50.0000	19.07
80	3-Nitroaniline	138	7.764	7.764	(0.997)	126446	50.0000	51.94
81	Acenaphthene	153	7.826	7.826	(1.005)	407677	50.0000	48.98
82	2,4-Dinitrophenol	184	7.888	7.888	(1.013)	40711	50.0000	49.13
83	Dibenzofuran	168	8.033	8.033	(1.032)	542170	50.0000	49.62
84	4-Nitrophenol	109	7.971	7.971	(1.024)	58859	50.0000	55.00
86	2,4-Dinitrotoluene	165	8.085	8.085	(1.039)	123715	50.0000	49.20
91	Fluorene	166	8.479	8.479	(1.089)	446810	50.0000	50.27
92	Diethylphthalate	149	8.427	8.427	(1.083)	452268	50.0000	48.76
93	4-Chlorophenyl-phenylether	204	8.489	8.489	(1.091)	190245	50.0000	52.28
94	4-Nitroaniline	138	8.552	8.552	(1.099)	126644	50.0000	53.32
97	4,6-Dinitro-2-methylphenol	198	8.614	8.614	(0.880)	55773	50.0000	48.44
98	N-Nitrosodiphenylamine	169	8.655	8.655	(0.885)	294966	58.6000	46.24
100	Azobenzene	77	8.697	8.697	(0.889)	492127	50.0000	51.82
101	4-Bromophenyl-phenylether	248	9.153	9.153	(0.935)	95079	50.0000	48.28
108	Hexachlorobenzene	284	9.349	9.349	(0.956)	105201	50.0000	48.62
110	Pentachlorophenol	266	9.609	9.609	(0.982)	63635	50.0000	53.08
114	Phenanthrene	178	9.816	9.816	(1.003)	636554	50.0000	48.33
115	Anthracene	178	9.888	9.888	(1.011)	636874	50.0000	49.15
118	Carbazole	167	10.147	10.147	(1.037)	609448	50.0000	50.35
120	Di-n-Butylphthalate	149	10.852	10.852	(1.109)	739375	50.0000	51.11
126	Fluoranthene	202	11.723	11.723	(1.198)	586675	50.0000	51.54
127	Benzidine	184	11.992	11.992	(0.843)	301310	50.0000	40.15
128	Pyrene	202	12.085	12.085	(0.849)	630110	50.0000	49.08
134	3,3'-dimethylbenzidine	212	13.298	13.298	(0.934)	237925	50.0000	36.82
136	Butylbenzylphthalate	149	13.412	13.412	(0.942)	316703	50.0000	51.17
138	Benzo(a)Anthracene	228	14.199	14.199	(0.998)	494915	50.0000	47.31
139	Chrysene	228	14.272	14.272	(1.003)	534255	50.0000	48.06
140	3,3'-Dichlorobenzidine	252	14.241	14.241	(1.001)	178270	50.0000	50.24
141	bis(2-ethylhexyl)Phthalate	149	14.531	14.531	(1.021)	427906	50.0000	50.13
142	Di-n-octylphthalate	149	15.588	15.588	(1.095)	648889	50.0000	49.34
144	Benzo(b)fluoranthene	252	16.044	16.044	(0.964)	454312	50.0000	53.56
145	Benzo(k)fluoranthene	252	16.085	16.085	(0.967)	543077	50.0000	51.13
147	Benzo(e)pyrene	252	16.469	16.469	(0.990)	456692	50.0000	52.43
148	Benzo(a)pyrene	252	16.541	16.541	(0.994)	422630	50.0000	45.08
151	Indeno(1,2,3-cd)pyrene	276	18.428	18.428	(1.108)	493946	50.0000	66.87
152	Dibenzo(a,h)anthracene	278	18.469	18.469	(1.110)	430969	50.0000	52.06
153	Benzo(g,h,i)perylene	276	18.915	18.915	(1.137)	460222	50.0000	52.23

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				997389	50.0000	52.21(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: HSL0817H.D
Lab Smp Id: HSL 050 ug/ml ICV
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\081710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 17-AUG-2010
Calibration Time: 17:32
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	126302	63151	252604	114455	-9.38
2 Naphthalene-d8	544958	272479	1089916	506932	-6.98
3 Acenaphthene-d10	283970	141985	567940	264293	-6.93
4 Phenanthrene-d10	451801	225901	903602	418038	-7.47
5 Chrysene-d12	438936	219468	877872	401690	-8.49
6 Perylene-d12	413868	206934	827736	369471	-10.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.25	3.75	4.75	4.25	0.00
2 Naphthalene-d8	5.67	5.17	6.17	5.67	0.00
3 Acenaphthene-d10	7.79	7.29	8.29	7.79	0.00
4 Phenanthrene-d10	9.79	9.29	10.29	9.79	0.00
5 Chrysene-d12	14.23	13.73	14.73	14.23	0.00
6 Perylene-d12	16.64	16.14	17.14	16.64	0.00

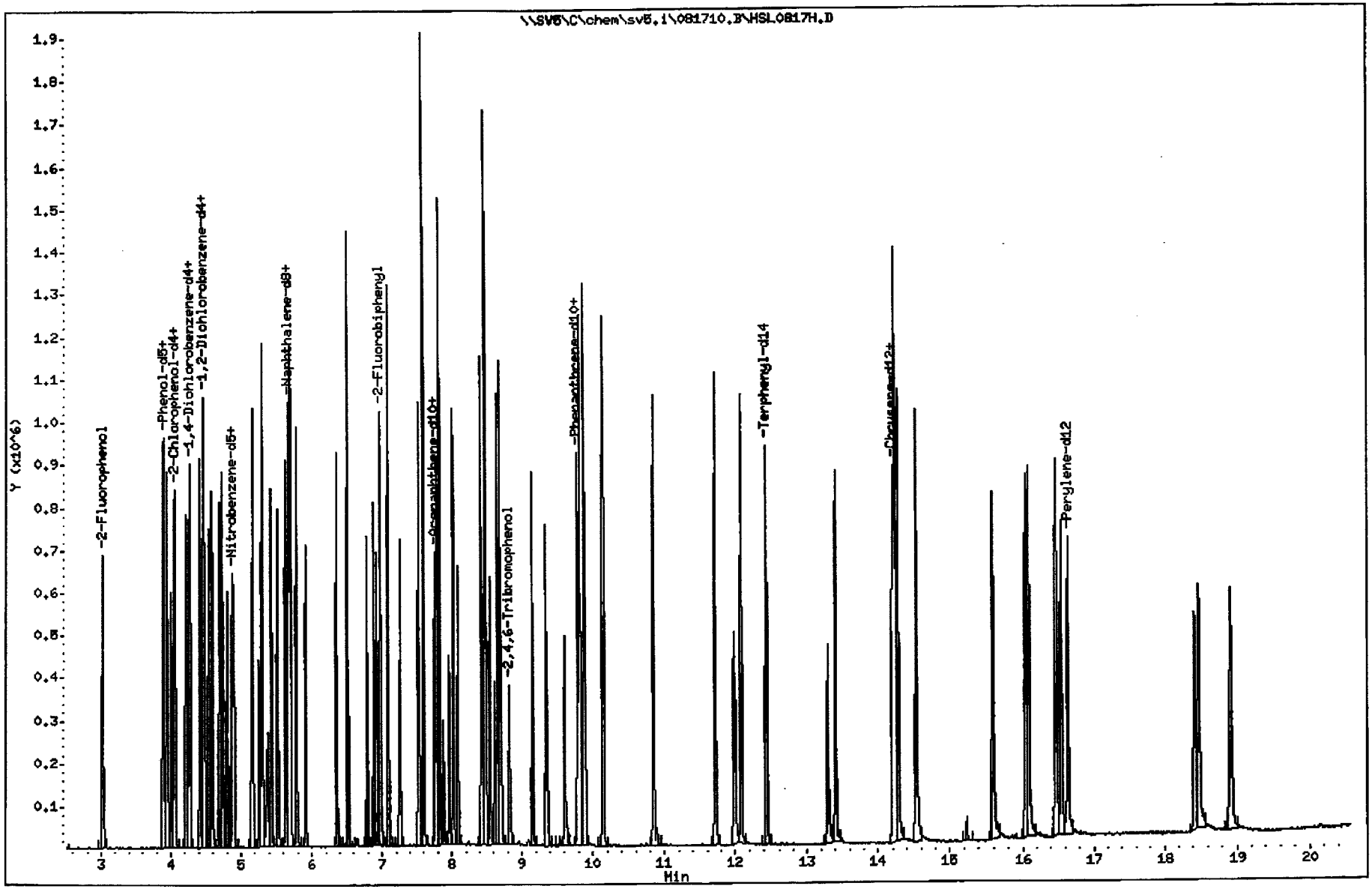
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\081710.B\HSL0817H.D
Date : 17-AUG-2010 20:34
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml ICV;2;;4;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:32 sv5.i
Curve Type : Average

Calibration File Names:
Level 1: \\SV5\C\chem\sv5.i\081710.B\HSL0817A.D
Level 2: \\SV5\C\chem\sv5.i\081710.B\HSL0817B.D
Level 3: \\SV5\C\chem\sv5.i\081710.B\HSL0817C.D
Level 4: \\SV5\C\chem\sv5.i\081710.B\HSL0817D.D
Level 5: \\SV5\C\chem\sv5.i\081710.B\HSL0817E.D
Level 6: \\SV5\C\chem\sv5.i\081710.B\HSL0817F.D
Level 7: \\SV5\C\chem\sv5.i\081710.B\HSL0817G.D

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
15 N-Nitrosodimethylamine	1.01450	1.02279	1.00102	0.99597	1.03756	1.04499		
	1.03863						1.02221	1.882
16 Pyridine	1.75460	1.78745	1.64406	1.71432	1.66801	1.68422		
	1.69533						1.70686	2.922
23 Aniline	2.41602	2.42382	2.40197	2.32813	2.41982	2.46234		
	2.43016						2.41175	1.711
24 Phenol	1.86052	2.02301	2.00276	1.96396	2.07756	2.05302		
	2.04528						2.00373	3.649
26 Bis(2-chloroethyl)ether	1.56368	1.64346	1.56888	1.52442	1.56271	1.55178		
	1.53437						1.56419	2.467
27 2-Chlorophenol	1.56036	1.57152	1.58366	1.55319	1.58939	1.61515		
	1.59728						1.58151	1.365
28 1,3-Dichlorobenzene	1.78742	1.78828	1.76218	1.67419	1.73919	1.72360		
	1.72671						1.74308	2.316
29 1,4-Dichlorobenzene	1.76765	1.81190	1.81906	1.77090	1.76789	1.79093		
	1.78052						1.78698	1.188

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:32 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
30 Benzyl Alcohol	1.01928	1.04543	1.03397	1.03244	1.07996	1.12223		
	1.12522						1.06550	4.130
31 1,2-Dichlorobenzene	1.66822	1.65652	1.64301	1.57376	1.66057	1.65987		
	1.65194						1.64484	1.964
32 2-Methylphenol	1.43718	1.49228	1.49050	1.47602	1.51781	1.56150		
	1.54325						1.50265	2.796
33 2,2'-oxybis(1-Chloropropane)	3.21512	3.12809	3.14551	3.02783	3.16664	3.15096		
	3.14062						3.13925	1.803
34 4-Methylphenol	1.49828	1.48942	1.53412	1.57515	1.60328	1.65209		
	1.62977						1.56887	4.061
36 Hexachloroethane	0.60113	0.59517	0.60665	0.60279	0.60376	0.62402		
	0.62640						0.60856	1.958
37 N-Nitrosodinpropylamine	1.08589	1.08778	1.09800	1.09917	1.15063	1.15883		
	1.17405						1.12205	3.346
42 Nitrobenzene	0.34799	0.34025	0.33504	0.34666	0.35472	0.36499		
	0.36003						0.34995	3.045
44 Isophorone	0.64832	0.68942	0.67116	0.69222	0.70439	0.71263		
	0.70479						0.68899	3.261
45 2-Nitrophenol	0.14234	0.14752	0.15334	0.17464	0.18069	0.19397		
	0.19225						0.16925	12.648
46 2,4-Dimethyphenol	0.35755	0.35783	0.35181	0.35790	0.36543	0.36576		
	0.37218						0.36121	1.901

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:32 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	0.39104	0.40155	0.39507	0.41341	0.41511	0.40703	0.40373	0.40385	2.202
49 2,4-Dichlorophenol	0.22123	0.24854	0.25443	0.26129	0.25770	0.26465	0.26191	0.25282	5.904
50 Benzoic Acid	0.11733	0.11848	0.11971	0.16578	0.17095	0.19468	0.20460	0.15593	23.991
51 1,2,4-Trichlorobenzene	0.28725	0.28972	0.28347	0.28031	0.28051	0.28360	0.27689	0.28311	1.543
52 Naphthalene	1.18887	1.14622	1.10368	1.10776	1.11078	1.13526	1.10893	1.12878	2.742
54 4-Chloroaniline	0.44467	0.44139	0.42757	0.44292	0.44412	0.44466	0.44312	0.44121	1.388
57 Hexachlorobutadiene	0.13877	0.12786	0.12772	0.13228	0.13305	0.13034	0.13142	0.13163	2.854
60 4-Chloro-3-Methylphenol	0.27935	0.28483	0.28238	0.30803	0.31318	0.31995	0.31793	0.30081	5.947
63 2-Methylnaphthalene	0.66976	0.69289	0.68496	0.68554	0.69727	0.69472	0.69748	0.68895	1.435
66 Hexachlorocyclopentadiene	0.24531	0.23651	0.24582	0.28532	0.27653	0.29311	0.30646	0.26987	10.098
69 2,4,6-Trichlorophenol	0.29206	0.27274	0.28570	0.30819	0.30355	0.31298	0.31270	0.29827	5.119

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:32 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-Trichlorphenol	0.28942	0.29734	0.31382	0.33738	0.34088	0.33777	0.34272	0.32276	6.932
71 2-Chloronaphthalene	1.12516	1.13786	1.11791	1.12983	1.10164	1.12054	1.13859	1.12450	1.141
73 2-Nitroaniline	0.27288	0.31288	0.31659	0.37130	0.36220	0.39187	0.39463	0.34605	13.284
76 Dimethylphthalate	1.29101	1.29115	1.31276	1.31001	1.30537	1.34714	1.33123	1.31267	1.563
77 Acenaphthylene	1.85661	1.93182	1.92000	1.97894	1.98458	2.02706	2.02537	1.96062	3.145
79 2,6-Dinitrotoluene	0.24018	0.25465	0.26689	0.29520	0.28866	0.29954	0.30054	0.27795	8.665
80 3-Nitroaniline	0.33089	0.33187	0.34110	0.39174	0.37700	0.39689	0.40948	0.36843	9.005
81 Acenaphthene	1.31286	1.26633	1.23024	1.25923	1.23385	1.25901	1.25548	1.25957	2.156
82 2,4-Dinitrophenol	0.07161	0.07881	0.09073	0.12637	0.13016	0.15887	0.17110	0.11823	33.009
83 Dibenzofuran	1.72736	1.61906	1.62358	1.64891	1.64785	1.66493	1.64475	1.65377	2.180
84 4-Nitrophenol	0.14682	0.14493	0.15197	0.16105	0.16919	0.17872	0.18114	0.16197	9.161

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 17-AUG-2010 20:08
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\081710.B\8270f.m
Last Edit : 17-Aug-2010 21:32 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	160.000 Level 7	RRF	% RSD
86 2,4-Dinitrotoluene	0.27978	0.28873	0.31291	0.36897	0.36799	0.40531	0.41391	0.34823	15.670
91 Fluorene	1.39852	1.31631	1.29856	1.35572	1.34720	1.36586	1.33484	1.34529	2.447
92 Diethylphthalate	1.62175	1.36536	1.34274	1.39445	1.34070	1.37737	1.38471	1.40387	6.994
93 4-Chlorophenyl-phenylether	0.55277	0.54053	0.54995	0.56311	0.55065	0.55234	0.54558	0.55070	1.265
94 4-Nitroaniline	0.31061	0.31727	0.33907	0.38892	0.37686	0.38771	0.39612	0.35951	10.089
97 4,6-Dinitro-2-methylphenol	0.05766	0.07228	0.07735	0.10448	0.11807	0.12944	0.13160	0.09870	30.039
98 N-Nitrosodiphenylamine	0.58644	0.59823	0.59516	0.61816	0.63740	0.62388	0.61295	0.61032	2.940
100 Azobenzene	0.89117	0.90472	0.90628	0.88691	0.92658	0.92667	0.91843	0.90868	1.764
101 4-Bromophenyl-phenylether	0.18960	0.18915	0.17764	0.18516	0.19587	0.19144	0.19024	0.18844	3.039
108 Hexachlorobenzene	0.22025	0.21202	0.20199	0.20132	0.20162	0.20719	0.20499	0.20706	3.364
110 Pentachlorophenol	0.09216	0.09868	0.10438	0.12033	0.12326	0.12975	0.13435	0.11470	14.187

TestAmerica West Sacramento

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Last Edit : 17-Aug-2010 21:32 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
114 Phenanthrene	1.29082	1.27854	1.26480	1.22345	1.27117	1.25690		
	1.23558						1.26018	1.884
115 Anthracene	1.16006	1.21551	1.21960	1.24822	1.28808	1.28001		
	1.26825						1.23982	3.641
118 Carbazole	1.10400	1.14548	1.13503	1.15385	1.17903	1.20372		
	1.18612						1.15818	2.937
120 Di-n-Butylphthalate	1.23713	1.29306	1.26094	1.42700	1.47428	1.48954		
	1.50788						1.38426	8.418
126 Fluoranthene	0.98399	1.06823	1.05882	1.09129	1.15566	1.13889		
	1.12763						1.08922	5.406
127 Benzidine	0.56386	0.61870	0.62738	0.73834	0.79179	0.88433		
	0.89590						0.73147	18.148
128 Pyrene	1.24890	1.24707	1.23596	1.22052	1.30910	1.37729		
	1.30927						1.27830	4.365
134 3,3'-dimethylbenzidine	0.44706	0.53485	0.52840	0.64996	0.70135	0.76188		
	0.79086						0.63062	20.634
136 Butylbenzylphthalate	0.47550	0.55807	0.57621	0.61860	0.66994	0.70952		
	0.70669						0.61636	13.982
138 Benzo(a)Anthracene	0.96855	0.97716	1.00839	1.05024	1.06181	1.12277		
	1.10237						1.04161	5.727
139 Chrysene	1.13946	1.12833	1.09363	1.05830	1.11735	1.11357		
	1.09763						1.10690	2.418

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
140 3,3'-Dichlorobenzidine	0.26973	0.31691	0.32823	0.36315	0.38355	0.40153		
	0.41026						0.35334	14.393
141 bis(2-ethylhexyl)Phthalate	0.70003	0.77713	0.77559	0.87409	0.90540	0.94886		
	0.96870						0.84997	11.848
142 Di-n-octylphthalate	0.90116	1.00485	1.06827	1.31081	1.38484	1.47006		
	1.55877						1.24268	20.254
144 Benzo(b)fluoranthene	0.77604	1.05241	0.79339	0.90348	0.92689	0.93008		
	1.04555						0.91826	11.800
145 Benzo(k)fluoranthene	1.10127	1.10853	1.18540	1.10619	1.15251	1.26612		
	1.12957						1.14994	5.166
147 Benzo(e)pyrene	0.89911	0.90988	0.91982	0.93798	0.95129	0.98514		
	0.99761						0.94298	3.971
148 Benzo(a)pyrene	0.96980	0.94679	0.94956	0.99726	1.04880	1.09872		
	1.09357						1.01493	6.438
151 Indeno(1,2,3-cd)pyrene	0.71673	0.71574	0.73615	0.81278	0.81604	0.91319		
	0.88699						0.79966	10.070
152 Dibenzo(a,h)anthracene	0.79120	0.83815	0.84983	0.90664	0.91831	0.96641		
	1.00323						0.89625	8.341
153 Benzo(g,h,i)perylene	0.90428	0.86658	0.94474	0.94129	0.97592	1.02761		
	1.01755						0.95399	6.097
M 162 benzo b,k Fluoranthene Totals	1.87731	2.16093	1.97879	2.00967	2.07941	2.19620		
	2.17512						2.06820	5.735

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
$ 7 2-Fluorophenol	1.39626	1.48805	1.44186	1.46999	1.49807	1.50517		
	1.48258						1.46886	2.597
$ 8 Phenol-d5	1.85744	1.79173	1.89227	1.84519	1.94305	1.95535		
	1.93504						1.88858	3.194
$ 9 2-Chlorophenol-d4	1.44140	1.59212	1.59712	1.56412	1.60437	1.60933		
	1.61406						1.57465	3.873
$ 10 1,2-Dichlorobenzene-d4	1.01101	0.99478	1.01190	0.95320	0.98286	0.99061		
	0.96713						0.98736	2.197
$ 11 Nitrobenzene-d5	0.32549	0.35020	0.32858	0.35698	0.35384	0.35923		
	0.36254						0.34812	4.294
$ 12 2-Fluorobiphenyl	1.24059	1.23689	1.27594	1.26062	1.27609	1.28026		
	1.28331						1.26481	1.519
$ 13 2,4,6-Tribromophenol	0.10901	0.12875	0.13917	0.14737	0.15069	0.15781		
	0.16457						0.14248	13.234
$ 14 Terphenyl-d14	0.74099	0.76829	0.75201	0.76006	0.80474	0.84343		
	0.80686						0.78234	4.713

Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento
Organic Prep Log
8270 Air

Box # Air Tox #846

Shared QC Batch: N/A

Shares QC With: N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	8/16/10
Inst Receipt:	

Batch: 0226077

MS Run #:

Prep Date: 8/14/2010

Method: JZ TO-13

Matrix: S AIR

Extraction: 11 SOXHLET (NONE,Na2SO4)

QC: 3W AMBIENT AIR TESTING

SAC: JZ - S - 11 - 3W

RUSH

Prep Reagents

Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	N/A
DCM	Baker	J23S02
Na2SO4	Baker	N/A

WS-OP-0006

Soxhlet time on: 1345 Soxhlet time off: 11:50 am

☑ XAD / PUF / PUF-XAD
☐ Filter
☐ Impinger

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume 1mL	Final Volume Other	Analysis Hold Time Expires
G0H140000 - 77	B	L5LC51AA	8/18/2010	1	✓		9/20/2010
G0H140000 - 77	C	L5LC51AC	8/18/2010	1	✓		9/20/2010
G0H140000 - 77	L	L5LC51AD	8/18/2010	1	✓		9/20/2010
G0H140454 - 5		L5LA21AA	8/18/2010	1	✓		9/20/2010
G0H140454 - 6		L5LA61AA	8/18/2010	1	✓		9/20/2010
G0H140454 - 7		L5LA81AA	8/19/2010	1	✓		9/21/2010
G0H140454 - 8		L5LCE1AA	8/19/2010	1	✓		9/21/2010

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	500ul/10Air0108	11/24/10			8/14/10
Spike Mix LCS/LCSD/~~MS/MS~~	1.0ml/10000ng LCS spiked 100ng/ml	1/24/11			8/14/10
Pre-Spike Standard ~~All Samples~~ MS only	250ul/10Air0108/ 100ng 1,2-DCB-d4 / 200ng/ml	11/3/10			8/14/10
Internal Standard All Samples	20ml/10MSSV00824	4-8-11			8-17-10
Soxhlet Extraction Analyst/Date	8/14/10	Concentration Analyst/Date	8/16/10	KD Analyst/Date	8/16/10
Liq Liq Extraction Analyst/Date	NA	KD Temp	83°C	Review Analyst/Date	

RUSH

RUSH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0226077 **Test:** T-6-13 SV

Prep Date: 8/14/10 **Holding Times:** 8-18-10 8/20-1 **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: [illegible] Date: 8-18-10

2nd Level Reviewer: MM Date: 8/16/10

Comments:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/16/10
Time: 11:07:34

LEV 1	LEV 2		LEV 1	LEV 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: 090182 Steve Valmores

Concentrationist: 403162 erica X. larson

QC BATCH: 0226077

PREP DATE: 8/14/10 13:00
COMP DATE: 8/15/10 13:00

Reviewer/Date: LARSONE / 8/16/10

Semivolatile Organics by GCMS in Air (TO-13A)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
8/18/10	8/20/10	G0H140454-005 **L5LA2-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0108/ABN SURR
COMMENTS:															
8/18/10	8/20/10	G0H140454-006 **L5LA6-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0108/ABN SURR
COMMENTS:															
8/19/10	8/20/10	G0H140454-007 **L5LA8-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0108/ABN SURR
COMMENTS:															
8/19/10	8/20/10	G0H140454-008 **L5LCE-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0108/ABN SURR
COMMENTS:															
8/18/10	0/00/00	G0H140000-077 **L5LC5-1-AA**B		11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	250UL/10AIR0103/1,2-DCB 500UL/10AIR0108/ABN SURR
COMMENTS:															
8/18/10	0/00/00	G0H140000-077 **L5LC5-1-AC**C		11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10OP0168/LCS SPIKE 500UL/10AIR0108/ABN SURR
COMMENTS:															
8/18/10	0/00/00	G0H140000-077 **L5LC5-1-AD**L	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10OP0168/LCS SPIKE 500UL/10AIR0108/ABN SURR
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento

GC/MS Data Review Checklist

Batch: 0226077 **Method ID:** Semivolatile Organics by GCMS in Air (TO-13A)

NCM: (Y) N Lab ID G0H140454

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

Analyst: _____ Date: 8/19/10

2nd Level Reviewer: _____ Date: 8/20/10

Comments: _____

QA-508 12/2/2006 MAF

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): (M01) M02		Method 6020 SOP SAC-MT-0001	
File Number 100818A1	Batch Numbers 0229240, 0229243, 0223142, 0228275, 0230206	Date 8/18/10	Analyst BRJ

Lot Numbers G0H140454, G0H110409, G0H060537, G0H100417, G0H170431	YES	NO	NA
1. Copy of analysis protocol used included?	✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓		
3. ICB & CCBs < reporting limit or recal and rerun?	✓		
4. 10 samples or less analyzed between calibration checks?	✓		
5. All parameters within linear range?	✓		
6. LCS/LCSD within limits?	✓		
7. Prep blank value < reporting limit or all samples >20x blank?	✓		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?	✓		
9. Appropriate dilution factors applied to data?	✓		
10. Matrix spike and spike dup within customer defined limits?	✓		
11. Each batch checked for presence of internal standard in samples?	✓		
12. Anomalies entered using Clouseau?			✓

COMMENTS: _____

REVIEWED BY: MTL	DATA ENTERED BY: BRJ
DATE: 8/9/10	DATE: 8/19/10

Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020,200.8
User Name: metal
Computer Name: SACP317BFB
Dataset File Path: C:\elandata\Dataset\100818A2\
Report Date/Time: Thursday, August 19, 2010 08:02:44

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	11:14:29 Wed 18-Aug-10	Sample	
	AUTOLENS BJONES	11:17:06 Wed 18-Aug-10	Sample	Auto Lens Calib
	DAILY BJONES	11:19:07 Wed 18-Aug-10	Sample	
0229240	L5LCF N.I.	13:16:56 Wed 18-Aug-10	Sample	G0H140454-9 N.I.
0229243	L5ECR N.I.	13:19:48 Wed 18-Aug-10	Sample	G0H110409-3 N.I.
0223142	L48EX N.I.	13:22:39 Wed 18-Aug-10	Sample	G0H060537-1 N.I.
0228275	L5CM3 N.I.	13:25:31 Wed 18-Aug-10	Sample	G0H100417-2 N.I.
	Rinse 3X	13:40:41 Wed 18-Aug-10	Sample	
	Rinse 3X	13:43:38 Wed 18-Aug-10	Sample	
	Blank	13:48:23 Wed 18-Aug-10	Blank	
	Standard 1	13:53:02 Wed 18-Aug-10	Standard #1	
	ICV	13:57:24 Wed 18-Aug-10	Sample	
	ICB	14:01:52 Wed 18-Aug-10	Sample	
	LLSTD1	14:06:25 Wed 18-Aug-10	Sample	LLSTD@10X
	LLSTD2	14:10:48 Wed 18-Aug-10	Sample	LLSTD@5X
	ICSA	14:15:13 Wed 18-Aug-10	Sample	
	ICSAB	14:19:39 Wed 18-Aug-10	Sample	
	Rinse	14:27:47 Wed 18-Aug-10	Sample	
	CCV 1 >RECAL	14:35:56 Wed 18-Aug-10	Sample	
	CCB 1	14:40:24 Wed 18-Aug-10	Sample	
	CCV 2	14:44:53 Wed 18-Aug-10	Sample	
	CCB 2	14:49:21 Wed 18-Aug-10	Sample	
229240-243	L5NLJB	14:53:49 Wed 18-Aug-10	Sample	G0H170000-240 BLK
229243-240	L5NLLC	14:58:15 Wed 18-Aug-10	Sample	G0H170000-243 LCS
229243-240	L5NLLL	15:02:39 Wed 18-Aug-10	Sample	G0H170000-243 LCSD } RERUN A1
229243	L5ECR	15:07:03 Wed 18-Aug-10	Sample	G0H110409-3
229243	L5ECRP5	15:11:27 Wed 18-Aug-10	Sample	G0H110409-3 5X
229243	L5ECRZ	15:15:52 Wed 18-Aug-10	Sample	G0H110409-3 PS
229243	L5EC0	15:20:16 Wed 18-Aug-10	Sample	G0H110409-4
	CCV 3	15:24:44 Wed 18-Aug-10	Sample - OUT A1,P	
	CCB 3	15:29:12 Wed 18-Aug-10	Sample	
SHORT LIST -	CCV 4 >RECAL	15:41:11 Wed 18-Aug-10	Sample	
	CCB 4	15:45:26 Wed 18-Aug-10	Sample	
	CCV 5	15:49:40 Wed 18-Aug-10	Sample	
	CCB 5	15:53:55 Wed 18-Aug-10	Sample	
223142	L5EE5B	15:58:10 Wed 18-Aug-10	Sample	G0H110000-142 BLK
223142	L5EE5C	16:02:23 Wed 18-Aug-10	Sample	G0H110000-142 LCS
223142	L5EE5L	16:06:34 Wed 18-Aug-10	Sample	G0H110000-142 LCSD
223142	L48EX	16:10:45 Wed 18-Aug-10	Sample	G0H060537-1
223142	L48EXP5	16:14:57 Wed 18-Aug-10	Sample	G0H060537-1 5X
223142	L48EXZ	16:19:10 Wed 18-Aug-10	Sample	G0H060537-1 PS
223142	L48FA	16:23:22 Wed 18-Aug-10	Sample	G0H060537-2
223142	L48FE	16:27:36 Wed 18-Aug-10	Sample	G0H060537-3
223142	L48FK	16:31:49 Wed 18-Aug-10	Sample	G0H060537-4
223142	L48FX	16:36:03 Wed 18-Aug-10	Sample	G0H060537-5
	CCV 6	16:40:17 Wed 18-Aug-10	Sample	
	CCB 6	16:44:32 Wed 18-Aug-10	Sample	
	CCV 7	16:48:47 Wed 18-Aug-10	Sample	
	CCB 7	16:53:01 Wed 18-Aug-10	Sample	

230206	L5QL3B	16:57:17 Wed 18-Aug-10	Sample	G0H180000-206 BLK
230206	L5QL3C	17:01:30 Wed 18-Aug-10	Sample	G0H180000-206 LCS
230206	L5QL3L	17:05:41 Wed 18-Aug-10	Sample	G0H180000-206 LCSD
230206	L5NE7	17:09:52 Wed 18-Aug-10	Sample	G0H170431-1
230206	L5NE7P5	17:14:03 Wed 18-Aug-10	Sample	G0H170431-1 5X
230206	L5NE7X	17:18:13 Wed 18-Aug-10	Sample	G0H170431-1 DU
230206	L5NE7Z	17:22:24 Wed 18-Aug-10	Sample	G0H170431-1 PS
230206	L5NFN	17:26:36 Wed 18-Aug-10	Sample	G0H170431-2
230206	L5NFP	17:30:48 Wed 18-Aug-10	Sample	G0H170431-3
230206	L5NFR	17:35:00 Wed 18-Aug-10	Sample	G0H170431-4
	CCV 8	17:39:14 Wed 18-Aug-10	Sample	
	CCB 8	17:43:28 Wed 18-Aug-10	Sample	
	CCV 9	17:47:43 Wed 18-Aug-10	Sample	
	CCB 9	17:51:58 Wed 18-Aug-10	Sample	
230206	L5NFV	17:56:12 Wed 18-Aug-10	Sample	G0H170431-5
230206	L5NFW	18:00:25 Wed 18-Aug-10	Sample	G0H170431-6
230206	L5NF1	18:04:38 Wed 18-Aug-10	Sample	G0H170431-7
230206	L5NF2	18:08:52 Wed 18-Aug-10	Sample	G0H170431-8
229240	L5LCF	18:13:06 Wed 18-Aug-10	Sample	G0H140454-9
229240	L5LCFP5	18:17:21 Wed 18-Aug-10	Sample	G0H140454-9 5X
229240	L5LCFZ	18:21:36 Wed 18-Aug-10	Sample	G0H140454-9 PS
229240	L5LCG	18:25:52 Wed 18-Aug-10	Sample	G0H140454-10
229240	L5LCK	18:30:07 Wed 18-Aug-10	Sample	G0H140454-11
229240	L5LCN	18:34:24 Wed 18-Aug-10	Sample	G0H140454-12
	CCV 10	18:38:39 Wed 18-Aug-10	Sample	
	CCB 10	18:42:54 Wed 18-Aug-10	Sample	
	CCV 11	18:47:08 Wed 18-Aug-10	Sample	
	CCB 11	18:51:23 Wed 18-Aug-10	Sample	
228275	L5MHQB	18:55:39 Wed 18-Aug-10	Sample	G0H160000-275 BLK - our P
228275	L5MHQC	18:59:53 Wed 18-Aug-10	Sample	G0H160000-275 LCS
228275	L5MHQL	19:04:05 Wed 18-Aug-10	Sample	G0H160000-275 LCSD
228275	L5CM3S	19:08:16 Wed 18-Aug-10	Sample	G0H100417-2 MS
228275	L5CM3D	19:12:26 Wed 18-Aug-10	Sample	G0H100417-2 SD - Li >120%
228275	L5CM3	19:16:36 Wed 18-Aug-10	Sample	G0H100417-2
228275	L5CM3P5	19:20:46 Wed 18-Aug-10	Sample	G0H100417-2 5X
228275	L5CM8	19:24:57 Wed 18-Aug-10	Sample	G0H100417-4
228275	L5CND	19:29:09 Wed 18-Aug-10	Sample	G0H100417-6 - Li >120%
228275	L5CNP	19:33:21 Wed 18-Aug-10	Sample	G0H100417-8
	CCV 12	19:37:34 Wed 18-Aug-10	Sample	- our Al, P, Se[2], Pb
	CCB 12	19:41:48 Wed 18-Aug-10	Sample	
short list (Al) -	CCV 13 >RECAL	19:46:03 Wed 18-Aug-10	Sample	- our Al
	CCB 13	19:48:42 Wed 18-Aug-10	Sample	
	CCV 14	19:51:22 Wed 18-Aug-10	Sample	
	CCB 14	19:54:02 Wed 18-Aug-10	Sample	
229240-243	L5NLJB	19:56:42 Wed 18-Aug-10	Sample	G0H170000-240 BLK
229243-240	L5NLLC	19:59:20 Wed 18-Aug-10	Sample	G0H170000-243 LCS
229243-240	L5NLLL	20:01:55 Wed 18-Aug-10	Sample	G0H170000-243 LCSD
229243	L5ECR	20:04:30 Wed 18-Aug-10	Sample	G0H110409-3
229243	L5ECRP5	20:07:06 Wed 18-Aug-10	Sample	G0H110409-3 5X
229243	L5ECRZ	20:09:42 Wed 18-Aug-10	Sample	G0H110409-3 PS
229243	L5EC0	20:12:18 Wed 18-Aug-10	Sample	G0H110409-4
	CCV 15	20:14:56 Wed 18-Aug-10	Sample	
	CCB 15	20:17:36 Wed 18-Aug-10	Sample	

Rerun P, Pb, (Be), (Se)

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 3X				3.0	08/18/10 13:43		☐
2	Blank				1.0	08/18/10 13:48		☐
3	Standard1				1.0	08/18/10 13:53		☐
4	ICV				1.0	08/18/10 13:57		☐
5	ICB				1.0	08/18/10 14:01		☐
6	LLSTD1				1.0	08/18/10 14:06		☐
7	LLSTD2				1.0	08/18/10 14:10		☐
8	ICSA				1.0	08/18/10 14:15		☐
9	ICSAB				1.0	08/18/10 14:19		☐
10	Rinse				1.0	08/18/10 14:27		☐
11	CCV 1				1.0	08/18/10 14:35		☐
12	CCB 1				1.0	08/18/10 14:40		☐
15	CCV 2				1.0	08/18/10 14:44		☐
16	CCB 2				1.0	08/18/10 14:49		☐
17	L5NLJB	G0H170000	0229240	2A	1.0	08/18/10 14:53		☐
18	L5NLLC	G0H170000	0229243	2A	1.0	08/18/10 14:58		☐
19	L5NLLL	G0H170000	0229243	2A	1.0	08/18/10 15:02		☐
20	L5ECR	G0H110409-3	0229243	2A	1.0	08/18/10 15:07		☐
21	L5ECRP5	G0H110409	0229243		5.0	08/18/10 15:11		☐
22	L5ECRZ	G0H110409-3	0229243		1.0	08/18/10 15:15		☐
23	L5EC0	G0H110409-4	0229243	2A	1.0	08/18/10 15:20		☐
24	CCV 3				1.0	08/18/10 15:24		☐
25	CCB 3				1.0	08/18/10 15:29		☐
26	CCV 4				1.0	08/18/10 15:41		☐
27	CCB 4				1.0	08/18/10 15:45		☐
30	CCV 5				1.0	08/18/10 15:49		☐
31	CCB 5				1.0	08/18/10 15:53		☐
32	L5EE5B	G0H110000	0223142	2A	1.0	08/18/10 15:58		☐
33	L5EE5C	G0H110000	0223142	2A	1.0	08/18/10 16:02		☐
34	L5EE5L	G0H110000	0223142	2A	1.0	08/18/10 16:06		☐
35	L48EX	G0H060537-1	0223142	2A	1.0	08/18/10 16:10		☐
36	L48EXP5	G0H060537	0223142		5.0	08/18/10 16:14		☐
37	L48EXZ	G0H060537-1	0223142		1.0	08/18/10 16:19		☐
38	L48FA	G0H060537-2	0223142	2A	1.0	08/18/10 16:23		☐
39	L48FE	G0H060537-3	0223142	2A	1.0	08/18/10 16:27		☐
40	L48FK	G0H060537-4	0223142	2A	1.0	08/18/10 16:31		☐
41	L48FX	G0H060537-5	0223142	2A	1.0	08/18/10 16:36		☐
42	CCV 6				1.0	08/18/10 16:40		☐
43	CCB 6				1.0	08/18/10 16:44		☐
44	CCV 7				1.0	08/18/10 16:48		☐
45	CCB 7				1.0	08/18/10 16:53		☐
46	L5QL3B	G0H180000	0230206	2A	1.0	08/18/10 16:57		☐
47	L5QL3C	G0H180000	0230206	2A	1.0	08/18/10 17:01		☐
48	L5QL3L	G0H180000	0230206	2A	1.0	08/18/10 17:05		☐
49	L5NE7	G0H170431-1	0230206	2A	1.0	08/18/10 17:09		☐
50	L5NE7P5	G0H170431	0230206		5.0	08/18/10 17:14		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: jonesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
51	L5NE7X	G0H170431-1	0230206	2A	1.0	08/18/10 17:18		☐
52	L5NE7Z	G0H170431-1	0230206		1.0	08/18/10 17:22		☐
53	L5NFN	G0H170431-2	0230206	2A	1.0	08/18/10 17:26		☐
54	L5NFP	G0H170431-3	0230206	2A	1.0	08/18/10 17:30		☐
55	L5NFR	G0H170431-4	0230206	2A	1.0	08/18/10 17:35		☐
56	CCV 8				1.0	08/18/10 17:39		☐
57	CCB 8				1.0	08/18/10 17:43		☐
58	CCV 9				1.0	08/18/10 17:47		☐
59	CCB 9				1.0	08/18/10 17:51		☐
60	L5NFV	G0H170431-5	0230206	2A	1.0	08/18/10 17:56		☐
61	L5NFW	G0H170431-6	0230206	2A	1.0	08/18/10 18:00		☐
62	L5NF1	G0H170431-7	0230206	2A	1.0	08/18/10 18:04		☐
63	L5NF2	G0H170431-8	0230206	2A	1.0	08/18/10 18:08		☐
64	L5LCF	G0H140454-9	0229240	2A	1.0	08/18/10 18:13		☐
65	L5LCFP5	G0H140454	0229240		5.0	08/18/10 18:17		☐
66	L5LCFZ	G0H140454-9	0229240		1.0	08/18/10 18:21		☐
67	L5LCG	G0H140454-10	0229240	2A	1.0	08/18/10 18:25		☐
68	L5LCK	G0H140454-11	0229240	2A	1.0	08/18/10 18:30		☐
69	L5LCN	G0H140454-12	0229240	2A	1.0	08/18/10 18:34		☐
70	CCV 10				1.0	08/18/10 18:38		☐
71	CCB 10				1.0	08/18/10 18:42		☐
72	CCV 11				1.0	08/18/10 18:47		☐
73	CCB 11				1.0	08/18/10 18:51		☐
74	L5MHQB	G0H160000	0228275	DF	1.0	08/18/10 18:55		☐
75	L5MHQC	G0H160000	0228275	DF	1.0	08/18/10 18:59		☐
76	L5MHQL	G0H160000	0228275	DF	1.0	08/18/10 19:04		☐
77	L5CM3S	G0H100417-2	0228275	DF	1.0	08/18/10 19:08		☐
78	L5CM3D	G0H100417-2	0228275	DF	1.0	08/18/10 19:12		☐
79	L5CM3	G0H100417-2	0228275	DF	1.0	08/18/10 19:16		☐
80	L5CM3P5	G0H100417	0228275		5.0	08/18/10 19:20		☐
81	L5CM8	G0H100417-4	0228275	DF	1.0	08/18/10 19:24		☐
82	L5CND	G0H100417-6	0228275	DF	1.0	08/18/10 19:29		☐
83	L5CNP	G0H100417-8	0228275	DF	1.0	08/18/10 19:33		☐
84	CCV 12				1.0	08/18/10 19:37		☐
85	CCB 12				1.0	08/18/10 19:41		☐
86	CCV 13				1.0	08/18/10 19:46		☐
87	CCB 13				1.0	08/18/10 19:48		☐
90	CCV 14				1.0	08/18/10 19:51		☐
91	CCB 14				1.0	08/18/10 19:54		☐
92	L5NLJB	G0H170000	0229240		1.0	08/18/10 19:56		☐
93	L5NLLC	G0H170000	0229243	2A	1.0	08/18/10 19:59		☐
94	L5NLLL	G0H170000	0229243	2A	1.0	08/18/10 20:01		☐
95	L5ECR	G0H110409-3	0229243	2A	1.0	08/18/10 20:04		☐
96	L5ECRP5	G0H110409	0229243		5.0	08/18/10 20:07		☐
97	L5ECRZ	G0H110409-3	0229243		1.0	08/18/10 20:09		☐
98	L5EC0	G0H110409-4	0229243	2A	1.0	08/18/10 20:12		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: jonesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
99	CCV 15				1.0	08/18/10 20:14		☐
100	CCB 15				1.0	08/18/10 20:17		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 3X	08/18/10 13:43	99.9	100.5	99.0	99.9	☐
2	Blank	08/18/10 13:48	100.0	100.0	100.0	100.0	☑
3	Standard1	08/18/10 13:53	98.6	98.9	95.4	96.7	☑
4	ICV	08/18/10 13:57	97.5	98.7	96.0	97.8	☑
5	ICB	08/18/10 14:01	97.2	97.9	94.6	96.5	☑
6	LLSTD1	08/18/10 14:06	97.3	98.6	93.9	96.8	☑
7	LLSTD2	08/18/10 14:10	96.9	97.8	92.9	95.9	☑
8	ICSA	08/18/10 14:15	91.9	89.7	79.8	81.0	☑
9	ICSAB	08/18/10 14:19	91.6	91.0	79.1	80.3	☑
10	Rinse	08/18/10 14:27	105.6	104.9	94.2	99.4	☑
11	CCV 1	08/18/10 14:35	104.1	101.5	94.9	96.7	☑
12	CCB 1	08/18/10 14:40	104.0	102.4	95.4	100.0	☑
15	CCV 2	08/18/10 14:44	96.7	95.4	96.7	94.6	☑
16	CCB 2	08/18/10 14:49	96.6	95.6	96.6	97.2	☑
17	L5NLJB	08/18/10 14:53	95.3	95.8	96.8	100.1	☑
18	L5NLLC	08/18/10 14:58	90.7	91.6	94.5	97.7	☑
19	L5NLLL	08/18/10 15:02	88.2	89.5	92.5	94.4	☑
20	L5ECR	08/18/10 15:07	93.4	93.4	93.6	98.8	☑
21	L5ECRP5	08/18/10 15:11	94.5	92.6	91.9	98.1	☐
22	L5ECRZ	08/18/10 15:15	92.0	90.9	93.4	96.7	☑
23	L5EC0	08/18/10 15:20	93.3	92.1	90.7	98.4	☑
24	CCV 3	08/18/10 15:24	90.5	87.3	88.3	93.2	☑
25	CCB 3	08/18/10 15:29	90.5	88.2	87.9	95.4	☑
26	CCV 4	08/18/10 15:41	87.8	84.0	84.0	89.9	☑
27	CCB 4	08/18/10 15:45	89.2	86.1	85.9	93.7	☑
30	CCV 5	08/18/10 15:49	98.6	98.7	98.2	97.0	☑
31	CCB 5	08/18/10 15:53	98.9	99.0	98.6	99.9	☑
32	L5EE5B	08/18/10 15:58	98.8	101.9	101.6	101.1	☑
33	L5EE5C	08/18/10 16:02	96.8	99.2	101.2	100.3	☑
34	L5EE5L	08/18/10 16:06	95.4	98.9	100.8	99.7	☑
35	L48EX	08/18/10 16:10	96.2	98.9	98.5	99.6	☑
36	L48EXP5	08/18/10 16:14	98.6	99.3	98.1	100.2	☐
37	L48EXZ	08/18/10 16:19	95.9	98.0	99.4	100.0	☑
38	L48FA	08/18/10 16:23	97.4	99.1	97.9	101.1	☑
39	L48FE	08/18/10 16:27	97.1	98.9	96.2	100.0	☑
40	L48FK	08/18/10 16:31	96.4	98.6	96.0	100.1	☑
41	L48FX	08/18/10 16:36	96.6	97.3	93.9	98.2	☑
42	CCV 6	08/18/10 16:40	95.4	95.5	94.1	96.9	☑
43	CCB 6	08/18/10 16:44	96.2	95.7	92.6	96.8	☑
44	CCV 7	08/18/10 16:48	95.1	94.2	92.1	95.5	☑
45	CCB 7	08/18/10 16:53	95.5	96.3	94.3	98.4	☑
46	L5QL3B	08/18/10 16:57	94.5	97.3	96.2	99.3	☑
47	L5QL3C	08/18/10 17:01	91.7	94.0	95.5	95.9	☑
48	L5QL3L	08/18/10 17:05	91.1	94.4	95.5	96.3	☑
49	L5NE7	08/18/10 17:09	93.4	94.7	94.1	97.3	☑
50	L5NE7P5	08/18/10 17:14	96.3	96.0	93.8	98.5	☐

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
51	L5NE7X	08/18/10 17:18	96.3	98.9	96.4	100.2	☑
52	L5NE7Z	08/18/10 17:22	91.7	94.8	94.2	96.9	☑
53	L5NFN	08/18/10 17:26	93.7	95.6	93.5	97.0	☑
54	L5NFP	08/18/10 17:30	95.1	96.9	92.9	97.5	☑
55	L5NFR	08/18/10 17:35	95.9	97.4	92.4	97.7	☑
56	CCV 8	08/18/10 17:39	94.1	93.6	93.1	95.4	☑
57	CCB 8	08/18/10 17:43	95.1	94.4	92.3	96.4	☑
58	CCV 9	08/18/10 17:47	92.7	92.2	90.1	93.6	☑
59	CCB 9	08/18/10 17:51	94.1	93.8	92.6	97.1	☑
60	L5NFV	08/18/10 17:56	93.2	94.0	89.0	94.9	☑
61	L5NFW	08/18/10 18:00	94.7	96.4	91.1	97.3	☑
62	L5NF1	08/18/10 18:04	96.3	97.2	92.9	97.0	☑
63	L5NF2	08/18/10 18:08	95.3	97.9	92.7	98.6	☑
64	L5LCF	08/18/10 18:13	96.1	97.6	92.6	97.7	☑
65	L5LCFP5	08/18/10 18:17	97.3	95.5	90.2	96.7	☐
66	L5LCFZ	08/18/10 18:21	89.6	92.9	91.9	95.2	☑
67	L5LCG	08/18/10 18:25	93.6	95.7	92.7	98.2	☑
68	L5LCK	08/18/10 18:30	94.2	95.3	93.0	98.2	☑
69	L5LCN	08/18/10 18:34	94.1	96.4	93.8	98.3	☑
70	CCV 10	08/18/10 18:38	94.4	92.9	92.4	95.7	☑
71	CCB 10	08/18/10 18:42	93.9	94.0	91.2	97.6	☑
72	CCV 11	08/18/10 18:47	91.9	90.9	91.0	95.4	☑
73	CCB 11	08/18/10 18:51	93.0	92.8	91.3	97.4	☑
74	L5MHQB	08/18/10 18:55	95.5	98.7	99.2	104.2	☑
75	L5MHQC	08/18/10 18:59	92.5	97.7	99.6	102.0	☑
76	L5MHQL	08/18/10 19:04	90.7	95.7	98.3	101.0	☑
77	L5CM3S	08/18/10 19:08	87.5	94.4	116.8	98.2	☑
78	L5CM3D	08/18/10 19:12	93.9	103.7	129.3	99.3	☑
79	L5CM3	08/18/10 19:16	92.4	108.0	119.3	99.3	☑
80	L5CM3P5	08/18/10 19:20	93.4	112.1	103.1	100.7	☐
81	L5CM8	08/18/10 19:24	88.3	110.4	109.8	100.7	☑
82	L5CND	08/18/10 19:29	92.7	116.1	121.1	105.1	☑
83	L5CNP	08/18/10 19:33	94.1	118.5	119.9	106.8	☑
84	CCV 12	08/18/10 19:37	89.2	109.1	94.0	99.0	☑
85	CCB 12	08/18/10 19:41	91.8	111.4	95.2	99.9	☑
86	CCV 13	08/18/10 19:46	90.4				☑
87	CCB 13	08/18/10 19:48	93.9				☑
90	CCV 14	08/18/10 19:51	91.7				☑
91	CCB 14	08/18/10 19:54	96.2				☑
92	L5NLJB	08/18/10 19:56	94.6				☑
93	L5NLLC	08/18/10 19:59	94.2				☑
94	L5NLLL	08/18/10 20:01	95.1				☑
95	L5ECR	08/18/10 20:04	96.2				☑
96	L5ECRP5	08/18/10 20:07	96.8				☐
97	L5ECRZ	08/18/10 20:09	94.9				☑
98	L5EC0	08/18/10 20:12	94.8				☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 08/19/10 09:37:15

File ID: 100818A1 **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
99	CCV 15	08/18/10 20:14	95.5				☑
100	CCB 15	08/18/10 20:17	98.6				☑

TAL-W.SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 0229240.mth
File Path: C:\elandata\Method\0229240.mth

Timing Parameters

Sweeps/Reading: 50
Readings/Replicate: 1
Number of Replicates: 3
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
QC Enabled: Yes
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
P	30.994	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
V	50.944	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Se	81.917	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Ag	106.905	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Tl	204.975	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	20.0 ms	1000 ms
Se	77.917	Peak Hopping	1	20.0 ms	1000 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms

Ag	108.905	Peak Hopping	1	5.0 ms	250 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Kr	83.912	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
V	50.944	-3.108 * Cr 53 + 0.3524 * Cr 52
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
Zn	67.925	-0.03 * Ba 136
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00223 * 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
Kr	83.912	- 0.006781 * Sr 88

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
P	30.994	Linear Thru Zero	ug/L	ug/L	5e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
V	50.944	Linear Thru Zero	ug/L	ug/L	100			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			

Cu	64.928	Linear Thru Zero	ug/L	ug/L	100
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100
As	74.922	Linear Thru Zero	ug/L	ug/L	100
Se	81.917	Linear Thru Zero	ug/L	ug/L	100
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Ag	106.905	Linear Thru Zero	ug/L	ug/L	50
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100
In-1	114.904	Linear Thru Zero	ug/L	ug/L	
Tl	204.975	Linear Thru Zero	ug/L	ug/L	50
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Se	75.919	Linear Thru Zero	ug/L	ug/L	100
Se	76.920	Linear Thru Zero	ug/L	ug/L	100
Se	77.917	Linear Thru Zero	ug/L	ug/L	100
Br	78.918	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100
Ag	108.905	Linear Thru Zero	ug/L	ug/L	50
In	114.904	Linear Thru Zero	ug/L	ug/L	
207.97	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	
Kr	83.912	Linear Thru Zero	ug/L	ug/L	

TAL-W. SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 3813-55A

Internal standard: 4075-2C

Blank, CCBs: 3185-37G

Standard 1, CCVs: 4075-4A

ICV: 3813-46D

ICSA: 4075-5C

ICSAB: 4075-5D

File Number: **100818A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Wednesday, August 18, 2010 11:14:29

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1558	0.730	2032	
Be	9.012	9.079	2067	0.723	2023	
Co	58.933	58.979	14298	0.731	1888	
In	114.904	114.928	27965	0.723	1843	
Ce	139.905	139.928	34037	0.718	1884	
Tl	204.975	204.979	49758	0.721	2097	
Pb	207.977	207.978	50484	0.709	2115	
U	238.050	238.026	57707	0.709	2276	

Report Date/Time: Wednesday, August 18, 2010 11:16:06

Page 1

Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Wednesday, August 18, 2010 11:14:29
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.8
Lens Voltage	6.0
ICP RF Power	1050.0
Analog Stage Voltage	-1912.5
Pulse Stage Voltage	1300.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

AutoLens Calibration

Date:	11:17:06 Wed 18-Aug-10
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	100818A2\
Lens Voltage Start:	3.50 V
Lens Voltage End:	6.50 V
Lens Voltage Step:	0.25 V
Slope:	0.0117
Intercept:	4.9507

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	5.0 V	7930 cps	13
Co	58.933	5.8 V	222895 cps	13
In	114.904	6.3 V	525746 cps	13

Dual Detector Calibration

Date:	10:04:05 Mon 16-Aug-10
Sample Filename:	DUAL BJONES.1131
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	8693	1.44e+009 cps
Li	7.016	8203	1.53e+009 cps

Be	9.012	7553	1.66e+009 cps
B	11.009	7714	1.62e+009 cps
Na	22.990	7891	1.59e+009 cps
Mg	23.985	7289	1.72e+009 cps
Mg	24.986	7191	1.74e+009 cps
Al	26.982	6764	1.85e+009 cps
P	30.994	6155	2.03e+009 cps
K	38.964	5912	2.12e+009 cps
Ca	42.959	5840	2.14e+009 cps
Ca	43.956	5901	2.12e+009 cps
Sc	44.956	5923	2.11e+009 cps
V	50.944	5877	2.13e+009 cps
Cr	51.941	5592	2.24e+009 cps
Fe	53.940	5509	2.27e+009 cps
Mn	54.938	5496	2.28e+009 cps
Fe	56.935	5419	2.31e+009 cps
Co	58.933	5273	2.37e+009 cps
Ni	59.933	5119	2.45e+009 cps
Cu	62.930	4998	2.50e+009 cps
Cu	64.928	4955	2.53e+009 cps
Zn	67.925	5011	2.50e+009 cps
Ge	71.922	5089	2.46e+009 cps
As	74.922	5070	2.47e+009 cps
Se	77.917	5110	2.45e+009 cps
Br	78.918		cps
Se	81.917	5018	2.49e+009 cps
Sr	87.906		cps
Mo	96.906	5110	2.45e+009 cps
Ag	106.905	4643	2.70e+009 cps
Ag	108.905	4522	2.77e+009 cps
Cd	110.904	4650	2.69e+009 cps
Cd	113.904	4605	2.72e+009 cps
In	114.904	4663	2.68e+009 cps
Sn	117.902	4690	2.67e+009 cps
Sb	120.904	4669	2.68e+009 cps
Ba	134.906	4556	2.75e+009 cps
Tm	168.934	4375	2.86e+009 cps
Tl	204.975	4136	3.03e+009 cps
Pb	207.977	4113	3.04e+009 cps
Bi	208.980		cps
U	238.050	4147	3.02e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Wednesday, August 18, 2010 11:19:07
Sample Description:
Sample File: C:\elandata\Sample\0200337R.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\100818A2\DAILY BJONES.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	91278.860	977.015	1.070
	Rh	103	375265.382	1646.783	0.439
	Pb	208	222207.616	1821.669	0.820
⌈>	Ba	138	358862.218	927.120	0.258
⌊	Ba++	69	0.029	0.001	2.187
⌈>	Ce	140	452777.183	2822.782	0.623
⌊	CeO	156	0.026	0.001	2.376
	Bkgd	220	5.429	1.565	28.828
	Li	7	26451.289	379.890	1.436
	Be	9	7286.920	107.344	1.473
	Co	59	205428.363	1584.662	0.771
	In	115	510639.960	4472.644	0.876
	Tl	205	315797.070	2468.781	0.782

Sample ID: L5LCF N.I.
Sample Description: G0H140454-9 N.I.
Batch ID: 0229240
Sample Date/Time: Wednesday, August 18, 2010 13:16:56
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCF N.I..004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 27
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			1370.580	ug/L	0.000
45	Sc			37232.307	ug/L	0.000
69	Ga			30569.893	ug/L	0.000
72	Ge			3084.810	ug/L	0.000
89	Y			36106.800	ug/L	0.000
103	Rh			84.762	ug/L	0.000
115	In			3473.995	ug/L	0.000
133	Cs			7094.196	ug/L	0.000
165	Ho			1541.559	ug/L	0.000
169	Tm			1536.321	ug/L	0.000
209	Bi			2112.627	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	91.672
Y	89	
Rh	103	
In	115	91.284
Cs	133	
Ho	165	95.082
Tm	169	
Bi	209	95.082

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 13:40:41
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\100818A2\Rinse 3X.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			1359581.700	ug/L	0.000
45	Sc			1920995.372	ug/L	0.000
69	Ga			3458.277	ug/L	0.000
72	Ge			1670750.268	ug/L	0.000
89	Y			469.060	ug/L	0.000
103	Rh			10.476	ug/L	0.000
115	In			1750725.883	ug/L	0.000
133	Cs			47.619	ug/L	0.000
165	Ho			42.857	ug/L	0.000
169	Tm			1200345.507	ug/L	0.000
209	Bi			34.286	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	91.672
Y	89	
Rh	103	
In	115	91.284
Cs	133	
Ho	165	95.082
Tm	169	
Bi	209	95.082

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 13:43:38
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\Rinse 3X.009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1446220.046	ug/L	1451432.215
>	6	Li-1			902485.270	ug/L	911644.467
	9	Be	-0.001146	90.707	1.333	ug/L	2.000
	27	Al	5.512800	9.014	48817.236	ug/L	6203.691
	31	P	3.031700	119.137	23325.852	ug/L	21885.890
	44	Ca	2.620293	10.055	34466.084	ug/L	33387.023
	51	V	-0.280548	87.121	-20428.745	ug/L	-16459.338
	52	Cr	-0.071699	5.556	20583.570	ug/L	21499.931
	55	Mn	0.045347	11.774	2812.955	ug/L	1838.933
	54	Fe	-1.350107	96.919	103745.946	ug/L	105275.937
	57	Fe	-0.256358	196.470	10734.919	ug/L	10860.329
	59	Co	0.000280	116.733	82.667	ug/L	78.334
	60	Ni	0.006281	100.494	183.035	ug/L	162.476
	65	Cu	0.000119	5160.694	302.406	ug/L	302.239
	68	Zn	0.036867	61.174	706.269	ug/L	661.246
	75	As	-0.045298	123.433	13955.836	ug/L	14106.304
	82	Se	-0.130125	67.283	1633.605	ug/L	1676.195
>	72	Ge-1			1231501.680	ug/L	1232792.371
	107	Ag	0.000434	42.148	31.667	ug/L	26.000
	111	Cd	0.002603	54.986	16.648	ug/L	8.817
	121	Sb	-0.000330	399.037	168.669	ug/L	171.002
	135	Ba	0.002053	289.715	70.667	ug/L	65.334
>	115	In-1			1234868.954	ug/L	1228893.772
	205	Tl	0.004822	55.480	1100.429	ug/L	981.409
	208	Pb	0.000877	39.985	236.002	ug/L	207.668
>	169	Tm-1			832237.628	ug/L	833398.407
	50	Cr	0.042269	193.128	-636.821	ug/L	-647.992
	53	Cr	-1.528650	36.739	87747.591	ug/L	90131.026
	61	Ni	0.329547	363.178	1526.847	ug/L	1510.502
	63	Cu	0.002518	206.249	66.668	ug/L	60.334
	67	Zn	-0.042879	791.711	2353.551	ug/L	2360.893
	66	Zn	0.020153	91.924	166.673	ug/L	153.339
	76	Se	6.512979	106.991	-172621.916	ug/L	-173324.577
	77	Se	-2.124461	18.124	6646.429	ug/L	7164.155
	78	Se	-0.327277	72.164	14841.874	ug/L	15106.968

	79	Br	-285.555713	138.024	58549.988	ug/L	57989.784
>	72	Ge			1231501.680	ug/L	1232792.371
	108	Cd	0.006634	145.637	0.039	ug/L	-1.331
	114	Cd	0.000177	134.372	26.951	ug/L	25.581
	109	Ag	0.000440	127.731	13.667	ug/L	11.667
>	115	In			1234868.954	ug/L	1228893.772
	208	207.977	0.001098	14.175	127.335	ug/L	109.001
	207	Pb	-0.001076	63.519	39.667	ug/L	47.000
	206	Pb	0.001923	29.673	69.000	ug/L	51.667
>	169	Tm			832237.628	ug/L	833398.407
	84	Kr			5652.776	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.995
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	99.895
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.486
	Tl	205	
	Pb	208	
>	Tm-1	169	99.861
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.895
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.486
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.861
	Kr	84	

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 13:48:23
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\Blank.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1451432.215	ug/L	
[>	6	Li-1			911644.467	ug/L	
[	9	Be			2.000	ug/L	
[	27	Al			6203.691	ug/L	
[	31	P			21885.890	ug/L	
[	44	Ca			33387.023	ug/L	
[	51	V			-16459.338	ug/L	
[	52	Cr			21499.931	ug/L	
[	55	Mn			1838.933	ug/L	
[	54	Fe			105275.937	ug/L	
[	57	Fe			10860.329	ug/L	
[	59	Co			78.334	ug/L	
[	60	Ni			162.476	ug/L	
[	65	Cu			302.239	ug/L	
[	68	Zn			661.246	ug/L	
[	75	As			14106.304	ug/L	
[	82	Se			1676.195	ug/L	
[>	72	Ge-1			1232792.371	ug/L	
[	107	Ag			26.000	ug/L	
[	111	Cd			8.817	ug/L	
[	121	Sb			171.002	ug/L	
[	135	Ba			65.334	ug/L	
[>	115	In-1			1228893.772	ug/L	
[	205	Tl			981.409	ug/L	
[	208	Pb			207.668	ug/L	
[>	169	Tm-1			833398.407	ug/L	
[	50	Cr			-647.992	ug/L	
[	53	Cr			90131.026	ug/L	
[	61	Ni			1510.502	ug/L	
[	63	Cu			60.334	ug/L	
[	67	Zn			2360.893	ug/L	
[	66	Zn			153.339	ug/L	
[	76	Se			-173324.577	ug/L	
[	77	Se			7164.155	ug/L	
[	78	Se			15106.968	ug/L	

	79	Br	57989.784	ug/L
>	72	Ge	1232792.371	ug/L
	108	Cd	-1.331	ug/L
	114	Cd	25.581	ug/L
	109	Ag	11.667	ug/L
>	115	In	1228893.772	ug/L
	208	207.977	109.001	ug/L
	207	Pb	47.000	ug/L
	206	Pb	51.667	ug/L
>	169	Tm	833398.407	ug/L
	84	Kr	5780.201	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Kr	84	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 13:53:02
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\Standard 1.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1413740.321	ug/L	1451432.215
>	6	Li-1			869322.005	ug/L	911644.467
	9	Be	100.000000	0.810	54188.075	ug/L	2.000
	27	Al	5100.000000	0.821	38926295.367	ug/L	6203.691
	31	P	5000.000000	1.315	2393187.498	ug/L	21885.890
	44	Ca	5100.000000	1.693	2173548.421	ug/L	33387.023
	51	V	100.000000	2.700	1382925.980	ug/L	-16459.338
	52	Cr	100.000000	0.393	1251855.407	ug/L	21499.931
	55	Mn	100.000000	1.657	2126420.402	ug/L	1838.933
	54	Fe	5100.000000	1.111	5380255.101	ug/L	105275.937
	57	Fe	5100.000000	1.639	2232629.332	ug/L	10860.329
	59	Co	100.000000	1.423	1558836.769	ug/L	78.334
	60	Ni	100.000000	1.111	326933.016	ug/L	162.476
	65	Cu	100.000000	0.592	334495.459	ug/L	302.239
	68	Zn	100.000000	0.258	122748.555	ug/L	661.246
	75	As	100.000000	0.405	310707.308	ug/L	14106.304
	82	Se	100.000000	0.186	32698.172	ug/L	1676.195
>	72	Ge-1			1215471.173	ug/L	1232792.371
	107	Ag	50.000000	0.739	629414.813	ug/L	26.000
	111	Cd	100.000000	0.890	294494.390	ug/L	8.817
	121	Sb	50.000000	1.529	467765.793	ug/L	171.002
	135	Ba	100.000000	1.211	244059.893	ug/L	65.334
>	115	In-1			1215675.636	ug/L	1228893.772
	205	Tl	50.000000	0.949	1206719.418	ug/L	981.409
	208	Pb	100.000000	0.538	3157908.759	ug/L	207.668
>	169	Tm-1			805534.849	ug/L	833398.407
	50	Cr	100.000000	4.921	24001.874	ug/L	-647.992
	53	Cr	100.000000	1.390	236883.925	ug/L	90131.026
	61	Ni	100.000000	2.502	6884.747	ug/L	1510.502
	63	Cu	100.000000	0.689	252291.074	ug/L	60.334
	67	Zn	100.000000	1.581	13212.968	ug/L	2360.893
	66	Zn	100.000000	0.955	66081.943	ug/L	153.339
	76	Se	100.000000	0.345	-163024.290	ug/L	-173324.577
	77	Se	100.000000	1.230	30757.289	ug/L	7164.155
	78	Se	100.000000	0.558	89917.622	ug/L	15106.968

	79 Br	100.000000	1089.426	56945.574	ug/L	57989.784
>	72 Ge			1215471.173	ug/L	1232792.371
	108 Cd	100.000000	1.925	20289.227	ug/L	-1.331
	114 Cd	100.000000	0.645	692742.635	ug/L	25.581
	109 Ag	50.000000	1.108	217252.309	ug/L	11.667
>	115 In			1215675.636	ug/L	1228893.772
	208 207.977	100.000000	0.463	1629152.244	ug/L	109.001
	207 Pb	100.000000	1.243	653409.813	ug/L	47.000
	206 Pb	100.000000	0.400	875346.702	ug/L	51.667
>	169 Tm			805534.849	ug/L	833398.407
	84 Kr			4559.685	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Kr	84	

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 13:57:24
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\ICV .012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1381478.723	ug/L	1451432.215
>	6	Li-1			875485.245	ug/L	911644.467
	9	Be	80.681751	1.385	44026.450	ug/L	2.000
	27	Al	832.331312	0.797	6291050.918	ug/L	6203.691
	31	P	787.470836	1.177	390959.686	ug/L	21885.890
	44	Ca	856.917520	0.722	388466.832	ug/L	33387.023
	51	V	80.287269	0.516	1095543.002	ug/L	-16459.338
	52	Cr	81.728021	0.380	1016084.250	ug/L	21499.931
	55	Mn	81.332221	1.267	1711503.317	ug/L	1838.933
	54	Fe	825.947795	0.353	948193.567	ug/L	105275.937
	57	Fe	818.303518	0.759	363342.300	ug/L	10860.329
	59	Co	80.880481	0.331	1247540.120	ug/L	78.334
	60	Ni	81.395232	0.184	263329.452	ug/L	162.476
	65	Cu	81.121597	0.669	268520.522	ug/L	302.239
	68	Zn	81.621500	0.925	99237.892	ug/L	661.246
	75	As	80.790044	0.407	250995.675	ug/L	14106.304
	82	Se	80.380426	0.606	26325.816	ug/L	1676.195
>	72	Ge-1			1202573.400	ug/L	1232792.371
	107	Ag	40.689806	0.826	511111.220	ug/L	26.000
	111	Cd	80.310033	0.813	236004.758	ug/L	8.817
	121	Sb	41.364531	0.980	386151.053	ug/L	171.002
	135	Ba	80.975340	0.703	197221.689	ug/L	65.334
>	115	In-1			1213027.794	ug/L	1228893.772
	205	Tl	41.105947	0.845	1004124.651	ug/L	981.409
	208	Pb	81.568620	0.946	2606696.576	ug/L	207.668
>	169	Tm-1			815206.641	ug/L	833398.407
	50	Cr	72.590244	0.982	17059.718	ug/L	-647.992
	53	Cr	85.068828	2.101	212515.203	ug/L	90131.026
	61	Ni	81.293719	1.415	5814.097	ug/L	1510.502
	63	Cu	81.384576	0.637	203158.766	ug/L	60.334
	67	Zn	82.972912	1.505	11239.732	ug/L	2360.893
	66	Zn	81.790396	0.107	53505.207	ug/L	153.339
	76	Se	83.668270	15.071	-162570.591	ug/L	-173324.577
	77	Se	80.224919	0.798	25792.538	ug/L	7164.155
	78	Se	80.597854	0.993	74562.161	ug/L	15106.968

	79	Br	-20949.964358	1.989	100855.371	ug/L	57989.784
>	72	Ge			1202573.400	ug/L	1232792.371
	108	Cd	78.592435	0.535	15909.852	ug/L	-1.331
	114	Cd	80.262651	0.950	554820.448	ug/L	25.581
	109	Ag	40.673525	0.576	176354.610	ug/L	11.667
>	115	In			1213027.794	ug/L	1228893.772
	208	207.977	81.088746	0.864	1336870.629	ug/L	109.001
	207	Pb	82.175316	1.188	543375.243	ug/L	47.000
	206	Pb	82.008843	1.035	726450.703	ug/L	51.667
>	169	Tm			815206.641	ug/L	833398.407
	84	Kr			4787.813	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std	% Recovery
	Sc	45		
>	Li-1	6		96.034
	Be	9		
	Al	27		
	P	31		
	Ca	44		
	V	51		
	Cr	52		
	Mn	55		
	Fe	54		
	Fe	57		
	Co	59		
	Ni	60		
	Cu	65		
	Zn	68		
	As	75		
	Se	82		
>	Ge-1	72		97.549
	Ag	107		
	Cd	111		
	Sb	121		
	Ba	135		
>	In-1	115		98.709
	Tl	205		
	Pb	208		
>	Tm-1	169		97.817
	Cr	50		
	Cr	53		
	Ni	61		
	Cu	63		
	Zn	67		
	Zn	66		
	Se	76		
	Se	77		
	Se	78		
	Br	79		
>	Ge	72		97.549
	Cd	108		
	Cd	114		
	Ag	109		
>	In	115		98.709
	207.977	208		
	Pb	207		
	Pb	206		
>	Tm	169		97.817
	Kr	84		

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:01:52
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\ICB.013
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1373876.980	ug/L	1451432.215
>	6	Li-1			862480.517	ug/L	911644.467
	9	Be	0.002654	143.641	3.333	ug/L	2.000
	27	Al	-0.027203	93.321	5822.998	ug/L	6203.691
	31	P	4.786752	57.300	23512.470	ug/L	21885.890
	44	Ca	5.256079	8.891	34617.907	ug/L	33387.023
	51	V	-0.252434	37.019	-19479.073	ug/L	-16459.338
	52	Cr	0.200692	14.909	23328.362	ug/L	21499.931
	55	Mn	0.001815	37.958	1824.928	ug/L	1838.933
	54	Fe	0.899756	30.338	103221.954	ug/L	105275.937
	57	Fe	1.838630	23.091	11343.410	ug/L	10860.329
	59	Co	0.003021	47.554	122.668	ug/L	78.334
	60	Ni	-0.002888	13.944	148.589	ug/L	162.476
	65	Cu	0.002181	274.804	301.008	ug/L	302.239
	68	Zn	0.018925	148.668	665.462	ug/L	661.246
	75	As	0.245322	62.551	14427.744	ug/L	14106.304
	82	Se	0.105981	114.356	1661.133	ug/L	1676.195
>	72	Ge-1			1197977.952	ug/L	1232792.371
	107	Ag	0.003091	21.680	64.000	ug/L	26.000
	111	Cd	0.002307	82.399	15.338	ug/L	8.817
	121	Sb	0.061662	8.992	738.376	ug/L	171.002
	135	Ba	0.004706	83.362	75.334	ug/L	65.334
>	115	In-1			1203235.044	ug/L	1228893.772
	205	Tl	0.101402	31.430	3393.605	ug/L	981.409
	208	Pb	0.004180	47.766	332.337	ug/L	207.668
>	169	Tm-1			804275.568	ug/L	833398.407
	50	Cr	-0.081449	54.770	-649.530	ug/L	-647.992
	53	Cr	0.962682	112.546	88999.667	ug/L	90131.026
	61	Ni	-0.199986	797.616	1457.468	ug/L	1510.502
	63	Cu	0.001880	119.322	63.334	ug/L	60.334
	67	Zn	1.066404	110.136	2408.611	ug/L	2360.893
	66	Zn	-0.035261	74.224	126.004	ug/L	153.339
	76	Se	14.852402	86.856	-167284.614	ug/L	-173324.577
	77	Se	0.619511	56.798	7106.110	ug/L	7164.155
	78	Se	0.460650	36.809	15020.558	ug/L	15106.968

	79 Br	-786.997480	67.014	58016.299	ug/L	57989.784
>	72 Ge			1197977.952	ug/L	1232792.371
	108 Cd	0.027410	83.130	4.224	ug/L	-1.331
	114 Cd	0.002191	89.339	40.097	ug/L	25.581
	109 Ag	0.002775	49.660	23.333	ug/L	11.667
>	115 In			1203235.044	ug/L	1228893.772
	208 207.977	0.003858	50.896	168.002	ug/L	109.001
	207 Pb	0.004954	46.897	77.667	ug/L	47.000
	206 Pb	0.004202	51.607	86.667	ug/L	51.667
>	169 Tm			804275.568	ug/L	833398.407
	84 Kr			5732.497	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.607
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	97.176
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.912
	Tl	205	
	Pb	208	
>	Tm-1	169	96.506
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.176
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.912
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.506
	Kr	84	

Sample ID: LLSTD1
Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:06:25
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\LLSTD1.014
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1370021.454	ug/L	1451432.215
>	6	Li-1			856339.192	ug/L	911644.467
	9	Be	0.997374	4.678	534.356	ug/L	2.000
	27	Al	50.332615	2.006	384942.301	ug/L	6203.691
	31	P	45.658724	6.126	42655.261	ug/L	21885.890
	44	Ca	58.490211	3.941	56688.725	ug/L	33387.023
	51	V	10.155620	2.100	124188.582	ug/L	-16459.338
	52	Cr	1.132825	3.296	34662.485	ug/L	21499.931
	55	Mn	1.016280	1.741	23088.812	ug/L	1838.933
	54	Fe	46.049458	4.794	149382.968	ug/L	105275.937
	57	Fe	52.075863	2.376	32945.353	ug/L	10860.329
	59	Co	1.001304	1.210	15474.126	ug/L	78.334
	60	Ni	1.048171	1.693	3536.786	ug/L	162.476
	65	Cu	1.011289	1.226	3627.963	ug/L	302.239
	68	Zn	5.135512	1.469	6828.929	ug/L	661.246
	75	As	1.162451	18.466	17120.885	ug/L	14106.304
	82	Se	1.179766	9.327	1991.625	ug/L	1676.195
>	72	Ge-1			1199047.987	ug/L	1232792.371
	107	Ag	0.508372	0.673	6402.887	ug/L	26.000
	111	Cd	0.981247	2.948	2887.935	ug/L	8.817
	121	Sb	0.407110	2.809	3962.901	ug/L	171.002
	135	Ba	1.009504	2.169	2518.832	ug/L	65.334
>	115	In-1			1211451.595	ug/L	1228893.772
	205	Tl	0.547735	1.761	14175.443	ug/L	981.409
	208	Pb	1.023415	0.092	32556.044	ug/L	207.668
>	169	Tm-1			806474.526	ug/L	833398.407
	50	Cr	0.632884	16.769	-476.330	ug/L	-647.992
	53	Cr	-3.821196	40.538	82079.169	ug/L	90131.026
	61	Ni	0.281298	34.730	1484.151	ug/L	1510.502
	63	Cu	1.022249	2.482	2602.156	ug/L	60.334
	67	Zn	3.734422	13.664	2697.601	ug/L	2360.893
	66	Zn	5.048743	0.684	3432.924	ug/L	153.339
	76	Se	13.075573	32.126	-167567.638	ug/L	-173324.577
	77	Se	-0.005011	7388.242	6967.002	ug/L	7164.155
	78	Se	1.632227	7.226	15901.017	ug/L	15106.968

	79	Br	1733.873429	27.399	52744.260	ug/L	57989.784
>	72	Ge			1199047.987	ug/L	1232792.371
	108	Cd	0.968686	16.622	194.647	ug/L	-1.331
	114	Cd	0.982113	2.189	6804.157	ug/L	25.581
	109	Ag	0.511240	1.583	2225.089	ug/L	11.667
>	115	In			1211451.595	ug/L	1228893.772
	208	207.977	1.021406	0.432	16764.722	ug/L	109.001
	207	Pb	1.028644	0.869	6774.604	ug/L	47.000
	206	Pb	1.023251	1.134	9016.717	ug/L	51.667
>	169	Tm			806474.526	ug/L	833398.407
	84	Kr			5849.340	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std	% Recovery
	Sc	45		
>	Li-1	6		93.933
	Be	9		
	Al	27		
	P	31		
	Ca	44		
	V	51		
	Cr	52		
	Mn	55		
	Fe	54		
	Fe	57		
	Co	59		
	Ni	60		
	Cu	65		
	Zn	68		
	As	75		
	Se	82		
>	Ge-1	72		97.263
	Ag	107		
	Cd	111		
	Sb	121		
	Ba	135		
>	In-1	115		98.581
	Tl	205		
	Pb	208		
>	Tm-1	169		96.769
	Cr	50		
	Cr	53		
	Ni	61		
	Cu	63		
	Zn	67		
	Zn	66		
	Se	76		
	Se	77		
	Se	78		
	Br	79		
>	Ge	72		97.263
	Cd	108		
	Cd	114		
	Ag	109		
>	In	115		98.581
	207.977	208		
	Pb	207		
	Pb	206		
>	Tm	169		96.769
	Kr	84		

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:10:48
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\LLSTD2.015
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 84
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1362574.134	ug/L	1451432.215
>	6	Li-1			846642.275	ug/L	911644.467
	9	Be	2.015124	2.039	1065.423	ug/L	2.000
	27	Al	101.232464	1.868	765444.529	ug/L	6203.691
	31	P	98.889235	2.883	67320.355	ug/L	21885.890
	44	Ca	112.605704	0.680	78816.435	ug/L	33387.023
	51	V	20.490256	0.906	265877.937	ug/L	-16459.338
	52	Cr	2.153415	2.644	46886.810	ug/L	21499.931
	55	Mn	1.996699	1.347	43485.440	ug/L	1838.933
	54	Fe	93.600605	1.908	197219.678	ug/L	105275.937
	57	Fe	101.857549	0.665	54148.183	ug/L	10860.329
	59	Co	2.025920	0.514	31118.572	ug/L	78.334
	60	Ni	2.048221	0.571	6736.613	ug/L	162.476
	65	Cu	2.049950	1.712	7026.567	ug/L	302.239
	68	Zn	10.528914	1.141	13276.269	ug/L	661.246
	75	As	2.197851	1.487	20081.718	ug/L	14106.304
	82	Se	2.091883	8.042	2262.636	ug/L	1676.195
>	72	Ge-1			1194691.182	ug/L	1232792.371
	107	Ag	1.030842	0.254	12857.309	ug/L	26.000
	111	Cd	2.038071	1.026	5943.901	ug/L	8.817
	121	Sb	0.836295	4.658	7900.908	ug/L	171.002
	135	Ba	1.981974	1.614	4846.512	ug/L	65.334
>	115	In-1			1202176.420	ug/L	1228893.772
	205	Tl	1.048489	2.201	26013.399	ug/L	981.409
	208	Pb	2.086740	0.278	65547.707	ug/L	207.668
>	169	Tm-1			798865.662	ug/L	833398.407
	50	Cr	1.709719	13.613	-213.807	ug/L	-647.992
	53	Cr	-6.010957	28.359	78610.338	ug/L	90131.026
	61	Ni	1.387460	80.660	1537.520	ug/L	1510.502
	63	Cu	2.122309	2.257	5319.887	ug/L	60.334
	67	Zn	7.530485	5.844	3093.771	ug/L	2360.893
	66	Zn	10.171658	0.663	6740.649	ug/L	153.339
	76	Se	34.420202	48.424	-165311.695	ug/L	-173324.577
	77	Se	-0.996275	8.436	6710.809	ug/L	7164.155
	78	Se	2.672275	20.774	16609.086	ug/L	15106.968

	79	Br	3555.419819	10.583	48732.307	ug/L	57989.784
>	72	Ge			1194691.182	ug/L	1232792.371
	108	Cd	1.951919	0.793	390.323	ug/L	-1.331
	114	Cd	1.944220	1.820	13343.058	ug/L	25.581
	109	Ag	1.014993	2.620	4372.537	ug/L	11.667
>	115	In			1202176.420	ug/L	1228893.772
	208	207.977	2.096889	0.369	33980.821	ug/L	109.001
	207	Pb	2.083564	0.555	13547.074	ug/L	47.000
	206	Pb	2.070224	1.009	18019.813	ug/L	51.667
>	169	Tm			798865.662	ug/L	833398.407
	84	Kr			5795.599	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.870
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	96.909
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.826
	Tl	205	
	Pb	208	
>	Tm-1	169	95.856
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.909
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.826
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.856
	Kr	84	

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:15:13
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\ICSA .016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1285401.320	ug/L	1451432.215
[>	6	Li-1			727213.890	ug/L	911644.467
[	9	Be	0.049422	8.530	24.000	ug/L	2.000
[	27	Al	89649.012268	4.037	637337769.712	ug/L	6203.691
[	31	P	91099.184533	3.405	40279429.659	ug/L	21885.890
[	44	Ca	93045.573125	3.233	36419915.330	ug/L	33387.023
[	51	V	-0.307419	124.667	-19068.427	ug/L	-16459.338
[	52	Cr	2.982501	8.875	53926.007	ug/L	21499.931
[	55	Mn	0.316235	3.648	7951.299	ug/L	1838.933
[	54	Fe	90061.020524	4.144	86897300.218	ug/L	105275.937
[	57	Fe	89912.361327	3.538	36508048.188	ug/L	10860.329
[	59	Co	0.372817	2.708	5487.365	ug/L	78.334
[	60	Ni	-0.252690	37.449	-614.994	ug/L	162.476
[	65	Cu	-1.034879	4.371	-2946.578	ug/L	302.239
[	68	Zn	3.117141	4.984	4153.615	ug/L	661.246
[	75	As	0.609212	50.152	14640.639	ug/L	14106.304
[	82	Se	0.377429	165.315	1646.387	ug/L	1676.195
[>	72	Ge-1			1133124.612	ug/L	1232792.371
[	107	Ag	0.185776	1.356	2144.362	ug/L	26.000
[	111	Cd	0.287115	11.263	773.793	ug/L	8.817
[	121	Sb	0.376523	15.147	3336.549	ug/L	171.002
[	135	Ba	0.234653	2.849	577.693	ug/L	65.334
[>	115	In-1			1102675.355	ug/L	1228893.772
[	205	Tl	0.043548	4.234	1674.220	ug/L	981.409
[	208	Pb	0.243443	3.870	6605.322	ug/L	207.668
[>	169	Tm-1			674959.961	ug/L	833398.407
[	50	Cr	99.991009	6.351	22380.167	ug/L	-647.992
[	53	Cr	19.648811	21.337	109860.122	ug/L	90131.026
[	61	Ni	27.772526	6.648	2784.038	ug/L	1510.502
[	63	Cu	2.401050	4.137	5697.133	ug/L	60.334
[	67	Zn	16.690169	6.356	3862.280	ug/L	2360.893
[	66	Zn	6.842480	6.163	4341.813	ug/L	153.339
[	76	Se	-79.824608	12.752	-165155.839	ug/L	-173324.577
[	77	Se	41.999104	7.195	15849.809	ug/L	7164.155
[	78	Se	4.242789	15.773	16844.049	ug/L	15106.968

	79 Br	-3459894.497564	5.146	6951335.239	ug/L	57989.784
>	72 Ge			1133124.612	ug/L	1232792.371
	108 Cd	52.637366	2.221	9680.968	ug/L	-1.331
	114 Cd	2.797343	3.683	17586.472	ug/L	25.581
	109 Ag	0.159746	0.807	640.090	ug/L	11.667
>	115 In			1102675.355	ug/L	1228893.772
	208 207.977	0.243595	5.850	3410.915	ug/L	109.001
	207 Pb	0.248021	3.668	1395.153	ug/L	47.000
	206 Pb	0.239741	3.024	1799.254	ug/L	51.667
>	169 Tm			674959.961	ug/L	833398.407
	84 Kr			5721.475	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	79.769
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	91.915
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.729
	Tl	205	
	Pb	208	
>	Tm-1	169	80.989
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	91.915
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.729
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	80.989
	Kr	84	

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:19:39
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\ICSAB.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1285541.304	ug/L	1451432.215
>	6	Li-1			720707.678	ug/L	911644.467
	9	Be	101.138593	1.405	45426.923	ug/L	2.000
	27	Al	91223.252164	1.033	646545799.024	ug/L	6203.691
	31	P	92047.078896	1.347	40565524.896	ug/L	21885.890
	44	Ca	94470.815473	1.066	36857614.752	ug/L	33387.023
	51	V	95.425787	0.846	1225063.591	ug/L	-16459.338
	52	Cr	99.220290	1.959	1153578.500	ug/L	21499.931
	55	Mn	90.937452	1.024	1796097.717	ug/L	1838.933
	54	Fe	90938.888988	1.586	87473717.741	ug/L	105275.937
	57	Fe	91230.715172	1.446	36926133.899	ug/L	10860.329
	59	Co	94.988335	0.934	1375209.426	ug/L	78.334
	60	Ni	94.225180	1.252	286090.659	ug/L	162.476
	65	Cu	90.421132	1.182	280900.895	ug/L	302.239
	68	Zn	96.102994	1.203	109568.520	ug/L	661.246
	75	As	101.991815	1.624	294008.285	ug/L	14106.304
	82	Se	106.307866	1.260	32182.163	ug/L	1676.195
>	72	Ge-1			1128847.392	ug/L	1232792.371
	107	Ag	46.337375	1.633	536380.858	ug/L	26.000
	111	Cd	97.668708	1.335	264494.913	ug/L	8.817
	121	Sb	52.234172	2.043	449309.855	ug/L	171.002
	135	Ba	99.126965	2.039	222463.985	ug/L	65.334
>	115	In-1			1117987.511	ug/L	1228893.772
	205	Tl	46.725424	1.893	936967.930	ug/L	981.409
	208	Pb	93.804147	1.854	2461121.165	ug/L	207.668
>	169	Tm-1			669421.283	ug/L	833398.407
	50	Cr	178.730058	8.409	40294.049	ug/L	-647.992
	53	Cr	119.225262	2.202	246400.539	ug/L	90131.026
	61	Ni	121.994213	1.380	7496.009	ug/L	1510.502
	63	Cu	93.735152	0.515	219631.787	ug/L	60.334
	67	Zn	115.403360	1.528	13829.295	ug/L	2360.893
	66	Zn	102.487268	1.511	62889.608	ug/L	153.339
	76	Se	21.640779	56.331	-157136.553	ug/L	-173324.577
	77	Se	148.394874	1.677	39206.699	ug/L	7164.155
	78	Se	107.633294	1.836	88815.966	ug/L	15106.968

	79 Br	-235585.338679	16.274	521472.521	ug/L	57989.784
>	72 Ge			1128847.392	ug/L	1232792.371
	108 Cd	151.675599	2.099	28294.831	ug/L	-1.331
	114 Cd	100.523071	1.868	640315.169	ug/L	25.581
	109 Ag	46.819486	1.865	187063.600	ug/L	11.667
>	115 In			1117987.511	ug/L	1228893.772
	208 207.977	93.572322	2.022	1266506.809	ug/L	109.001
	207 Pb	94.489887	1.531	513004.406	ug/L	47.000
	206 Pb	93.723710	1.857	681609.950	ug/L	51.667
>	169 Tm			669421.283	ug/L	833398.407
	84 Kr			5266.603	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	79.056
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	91.568
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	90.975
	Tl	205	
	Pb	208	
>	Tm-1	169	80.324
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	91.568
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	90.975
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	80.324
	Kr	84	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:27:47
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\Rinse.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1468967.559	ug/L	1451432.215
>	6	Li-1			858792.987	ug/L	911644.467
	9	Be	0.005201	21.214	4.667	ug/L	2.000
	27	Al	5.821447	1.808	54125.308	ug/L	6203.691
	31	P	-3.329863	72.360	21422.778	ug/L	21885.890
	44	Ca	4.396607	22.103	37223.239	ug/L	33387.023
	51	V	-0.612203	59.431	-26590.926	ug/L	-16459.338
	52	Cr	1.245405	2.129	39106.127	ug/L	21499.931
	55	Mn	0.056711	7.717	3232.155	ug/L	1838.933
	54	Fe	4.910508	49.612	116581.251	ug/L	105275.937
	57	Fe	8.434745	4.208	15401.510	ug/L	10860.329
	59	Co	0.000099	676.106	84.334	ug/L	78.334
	60	Ni	-0.017667	14.173	109.764	ug/L	162.476
	65	Cu	-0.002779	298.342	308.988	ug/L	302.239
	68	Zn	0.089477	34.706	815.328	ug/L	661.246
	75	As	0.294426	43.683	15830.701	ug/L	14106.304
	82	Se	-0.027994	529.664	1759.865	ug/L	1676.195
>	72	Ge-1			1301446.182	ug/L	1232792.371
	107	Ag	0.001276	28.901	44.333	ug/L	26.000
	111	Cd	0.002790	165.559	18.087	ug/L	8.817
	121	Sb	0.019965	13.029	377.345	ug/L	171.002
	135	Ba	-0.000416	979.740	67.334	ug/L	65.334
>	115	In-1			1288592.134	ug/L	1228893.772
	205	Tl	0.077865	16.873	2912.007	ug/L	981.409
	208	Pb	0.001400	0.584	252.002	ug/L	207.668
>	169	Tm-1			828745.793	ug/L	833398.407
	50	Cr	-0.907872	12.849	-923.457	ug/L	-647.992
	53	Cr	22.197015	5.592	130341.221	ug/L	90131.026
	61	Ni	3.029400	134.595	1771.366	ug/L	1510.502
	63	Cu	0.002206	42.291	69.668	ug/L	60.334
	67	Zn	3.507598	31.641	2902.189	ug/L	2360.893
	66	Zn	-0.025278	67.029	144.005	ug/L	153.339
	76	Se	32.634947	54.703	-180233.465	ug/L	-173324.577
	77	Se	20.700155	6.385	12811.689	ug/L	7164.155
	78	Se	2.071109	17.103	17610.175	ug/L	15106.968

	79 Br	-6562.332497	2.377	76236.034	ug/L	57989.784
>	72 Ge			1301446.182	ug/L	1232792.371
	108 Cd	0.070867	37.819	13.804	ug/L	-1.331
	114 Cd	0.003492	30.520	52.498	ug/L	25.581
	109 Ag	0.002046	46.729	21.667	ug/L	11.667
>	115 In			1288592.134	ug/L	1228893.772
	208 207.977	0.001342	61.026	131.001	ug/L	109.001
	207 Pb	0.001042	186.037	53.667	ug/L	47.000
	206 Pb	0.001776	18.155	67.334	ug/L	51.667
>	169 Tm			828745.793	ug/L	833398.407
	84 Kr			6185.263	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.203
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	105.569
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	104.858
	Tl	205	
	Pb	208	
>	Tm-1	169	99.442
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	105.569
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	104.858
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.442
	Kr	84	

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:35:56
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 1.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1400006.596	ug/L	1451432.215
>	6	Li-1			864728.481	ug/L	911644.467
	9	Be	98.370621	0.484	53027.059	ug/L	2.000
	27	Al	4571.377281	1.137	36850316.765	ug/L	6203.691
	31	P	4479.772135	0.830	2266924.459	ug/L	21885.890
	44	Ca	4766.662757	1.242	2147904.732	ug/L	33387.023
	51	V	94.413822	1.601	1378188.811	ug/L	-16459.338
	52	Cr	97.451195	0.947	1288884.909	ug/L	21499.931
	55	Mn	92.965030	1.080	2087984.578	ug/L	1838.933
	54	Fe	4750.743098	1.308	5300620.956	ug/L	105275.937
	57	Fe	4786.808681	0.686	2213826.883	ug/L	10860.329
	59	Co	93.993039	1.292	1547454.607	ug/L	78.334
	60	Ni	98.037197	1.209	338519.285	ug/L	162.476
	65	Cu	98.549247	1.140	348132.846	ug/L	302.239
	68	Zn	97.817216	1.028	126813.248	ug/L	661.246
	75	As	99.832892	0.382	327583.593	ug/L	14106.304
	82	Se	98.917879	0.910	34176.210	ug/L	1676.195
>	72	Ge-1			1283541.424	ug/L	1232792.371
	107	Ag	50.757801	1.410	655900.502	ug/L	26.000
	111	Cd	100.009955	0.506	302336.597	ug/L	8.817
	121	Sb	50.187442	1.108	481904.391	ug/L	171.002
	135	Ba	99.790786	0.976	250014.966	ug/L	65.334
>	115	In-1			1247863.924	ug/L	1228893.772
	205	Tl	49.048246	0.829	1184169.136	ug/L	981.409
	208	Pb	97.593605	0.579	3082933.402	ug/L	207.668
>	169	Tm-1			805798.407	ug/L	833398.407
	50	Cr	98.752474	3.805	25022.150	ug/L	-647.992
	53	Cr	104.146302	3.142	256629.638	ug/L	90131.026
	61	Ni	99.811746	2.222	7260.919	ug/L	1510.502
	63	Cu	97.932149	1.739	260939.388	ug/L	60.334
	67	Zn	99.975693	1.048	13950.016	ug/L	2360.893
	66	Zn	97.344613	0.632	67939.297	ug/L	153.339
	76	Se	131.027299	4.424	-169575.065	ug/L	-173324.577
	77	Se	106.691901	2.097	34155.404	ug/L	7164.155
	78	Se	99.852261	0.668	94842.292	ug/L	15106.968

	79 Br	-5272.560507	16.393	72285.485	ug/L	57989.784
>	72 Ge			1283541.424	ug/L	1232792.371
	108 Cd	101.041077	0.899	21042.109	ug/L	-1.331
	114 Cd	99.879824	0.454	710249.069	ug/L	25.581
	109 Ag	50.475206	1.214	225142.694	ug/L	11.667
>	115 In			1247863.924	ug/L	1228893.772
	208 207.977	96.265239	0.690	1568799.769	ug/L	109.001
	207 Pb	99.272023	1.197	648890.630	ug/L	47.000
	206 Pb	98.812966	0.309	865243.003	ug/L	51.667
>	169 Tm			805798.407	ug/L	833398.407
	84 Kr			5803.328	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.854
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	104.117
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.544
	Tl	205	
	Pb	208	
>	Tm-1	169	96.688
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	104.117
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.544
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.688
	Kr	84	

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:40:24
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 1.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1401732.230	ug/L	1451432.215
>	6	Li-1			869807.054	ug/L	911644.467
	9	Be	0.002030	94.713	3.000	ug/L	2.000
	27	Al	-0.022612	186.928	6270.428	ug/L	6203.691
	31	P	-1.834038	107.745	21841.129	ug/L	21885.890
	44	Ca	3.562579	55.739	36295.233	ug/L	33387.023
	51	V	-0.153033	157.035	-19380.277	ug/L	-16459.338
	52	Cr	0.938661	1.700	34544.513	ug/L	21499.931
	55	Mn	0.001538	211.365	1946.631	ug/L	1838.933
	54	Fe	0.593372	243.311	110128.192	ug/L	105275.937
	57	Fe	5.290656	10.640	13725.335	ug/L	10860.329
	59	Co	0.002044	78.915	115.001	ug/L	78.334
	60	Ni	-0.021799	10.970	93.855	ug/L	162.476
	65	Cu	-0.000312	901.198	313.227	ug/L	302.239
	68	Zn	0.098616	39.866	814.586	ug/L	661.246
	75	As	0.311263	82.489	15648.362	ug/L	14106.304
	82	Se	-0.009080	1336.227	1740.200	ug/L	1676.195
>	72	Ge-1			1282074.255	ug/L	1232792.371
	107	Ag	0.003283	41.913	69.334	ug/L	26.000
	111	Cd	0.003737	113.030	20.383	ug/L	8.817
	121	Sb	0.251253	24.987	2606.219	ug/L	171.002
	135	Ba	0.003593	95.699	76.000	ug/L	65.334
>	115	In-1			1258760.610	ug/L	1228893.772
	205	Tl	0.147414	34.711	4655.116	ug/L	981.409
	208	Pb	0.004514	37.644	355.004	ug/L	207.668
>	169	Tm-1			833542.774	ug/L	833398.407
	50	Cr	-0.515513	23.175	-807.762	ug/L	-647.992
	53	Cr	12.174946	10.554	112735.277	ug/L	90131.026
	61	Ni	2.022957	31.158	1685.959	ug/L	1510.502
	63	Cu	0.003121	127.891	71.001	ug/L	60.334
	67	Zn	2.944658	54.856	2792.719	ug/L	2360.893
	66	Zn	-0.064271	55.371	114.670	ug/L	153.339
	76	Se	36.432167	7.922	-177231.008	ug/L	-173324.577
	77	Se	12.997309	11.101	10696.959	ug/L	7164.155
	78	Se	1.691468	3.484	17049.421	ug/L	15106.968

	79 Br	-2756.719094	26.199	66515.509	ug/L	57989.784
>	72 Ge			1282074.255	ug/L	1232792.371
	108 Cd	0.046200	10.840	8.347	ug/L	-1.331
	114 Cd	0.003193	39.203	49.089	ug/L	25.581
	109 Ag	0.003794	26.496	29.000	ug/L	11.667
>	115 In			1258760.610	ug/L	1228893.772
	208 207.977	0.004769	32.337	189.336	ug/L	109.001
	207 Pb	0.002483	164.759	63.667	ug/L	47.000
	206 Pb	0.005554	11.716	102.001	ug/L	51.667
>	169 Tm			833542.774	ug/L	833398.407
	84 Kr			5909.995	ug/L	5780.201

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	95.411
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	103.998
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.430
	Tl	205	
	Pb	208	
>	Tm-1	169	100.017
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	103.998
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	102.430
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.017
	Kr	84	

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:40:24
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 1.020
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1401732.230	ug/L	
>	6	Li-1			869807.054	ug/L	
	9	Be			3.000	ug/L	
	27	Al			6270.428	ug/L	
	31	P			21841.129	ug/L	
	44	Ca			36295.233	ug/L	
	51	V			-19380.277	ug/L	
	52	Cr			34544.513	ug/L	
	55	Mn			1946.631	ug/L	
	54	Fe			110128.192	ug/L	
	57	Fe			13725.335	ug/L	
	59	Co			115.001	ug/L	
	60	Ni			93.855	ug/L	
	65	Cu			313.227	ug/L	
	68	Zn			814.586	ug/L	
	75	As			15648.362	ug/L	
	82	Se			1740.200	ug/L	
>	72	Ge-1			1282074.255	ug/L	
	107	Ag			69.334	ug/L	
	111	Cd			20.383	ug/L	
	121	Sb			2606.219	ug/L	
	135	Ba			76.000	ug/L	
>	115	In-1			1258760.610	ug/L	
	205	Tl			4655.116	ug/L	
	208	Pb			355.004	ug/L	
>	169	Tm-1			833542.774	ug/L	
	50	Cr			-807.762	ug/L	
	53	Cr			112735.277	ug/L	
	61	Ni			1685.959	ug/L	
	63	Cu			71.001	ug/L	
	67	Zn			2792.719	ug/L	
	66	Zn			114.670	ug/L	
	76	Se			-177231.008	ug/L	
	77	Se			10696.959	ug/L	
	78	Se			17049.421	ug/L	

	79	Br	66515.509	ug/L
>	72	Ge	1282074.255	ug/L
	108	Cd	8.347	ug/L
	114	Cd	49.089	ug/L
	109	Ag	29.000	ug/L
>	115	In	1258760.610	ug/L
	208	207.977	189.336	ug/L
	207	Pb	63.667	ug/L
	206	Pb	102.001	ug/L
>	169	Tm	833542.774	ug/L
	84	Kr	5909.995	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Kr	84	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:35:56
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 1.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1400006.596	ug/L	1401732.230
>	6	Li-1			864728.481	ug/L	869807.054
	9	Be	100.000000	0.484	53027.059	ug/L	3.000
	27	Al	5100.000000	1.137	36850316.765	ug/L	6270.428
	31	P	5000.000000	0.830	2266924.459	ug/L	21841.129
	44	Ca	5100.000000	1.243	2147904.732	ug/L	36295.233
	51	V	100.000000	1.599	1378188.811	ug/L	-19380.277
	52	Cr	100.000000	0.956	1288884.909	ug/L	34544.513
	55	Mn	100.000000	1.080	2087984.578	ug/L	1946.631
	54	Fe	5100.000000	1.308	5300620.956	ug/L	110128.192
	57	Fe	5100.000000	0.687	2213826.883	ug/L	13725.335
	59	Co	100.000000	1.292	1547454.607	ug/L	115.001
	60	Ni	100.000000	1.209	338519.285	ug/L	93.855
	65	Cu	100.000000	1.140	348132.846	ug/L	313.227
	68	Zn	100.000000	1.029	126813.248	ug/L	814.586
	75	As	100.000000	0.383	327583.593	ug/L	15648.362
	82	Se	100.000000	0.910	34176.210	ug/L	1740.200
>	72	Ge-1			1283541.424	ug/L	1282074.255
	107	Ag	50.000000	1.410	655900.502	ug/L	69.334
	111	Cd	100.000000	0.506	302336.597	ug/L	20.383
	121	Sb	50.000000	1.114	481904.391	ug/L	2606.219
	135	Ba	100.000000	0.976	250014.966	ug/L	76.000
>	115	In-1			1247863.924	ug/L	1258760.610
	205	Tl	50.000000	0.832	1184169.136	ug/L	4655.116
	208	Pb	100.000000	0.579	3082933.402	ug/L	355.004
>	169	Tm-1			805798.407	ug/L	833542.774
	50	Cr	100.000000	3.785	25022.150	ug/L	-807.762
	53	Cr	100.000000	3.558	256629.638	ug/L	112735.277
	61	Ni	100.000000	2.268	7260.919	ug/L	1685.959
	63	Cu	100.000000	1.739	260939.388	ug/L	71.001
	67	Zn	100.000000	1.080	13950.016	ug/L	2792.719
	66	Zn	100.000000	0.631	67939.297	ug/L	114.670
	76	Se	100.000000	6.127	-169575.065	ug/L	-177231.008
	77	Se	100.000000	2.388	34155.404	ug/L	10696.959
	78	Se	100.000000	0.679	94842.292	ug/L	17049.421

	79 Br	100.000000	34.319	72285.485	ug/L	66515.509
L>	72 Ge			1283541.424	ug/L	1282074.255
⌈	108 Cd	100.000000	0.900	21042.109	ug/L	8.347
|	114 Cd	100.000000	0.454	710249.069	ug/L	49.089
|	109 Ag	50.000000	1.214	225142.694	ug/L	29.000
L>	115 In			1247863.924	ug/L	1258760.610
⌈	208 207.977	100.000000	0.690	1568799.769	ug/L	189.336
|	207 Pb	100.000000	1.197	648890.630	ug/L	63.667
|	206 Pb	100.000000	0.309	865243.003	ug/L	102.001
L>	169 Tm			805798.407	ug/L	833542.774
	84 Kr			5803.328	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	
L	Be	9	
⌈	Al	27	
|	P	31	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
L>	Ge-1	72	
⌈	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
L>	In-1	115	
⌈	Tl	205	
|	Pb	208	
L>	Tm-1	169	
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
L>	Ge	72	
⌈	Cd	108	
|	Cd	114	
|	Ag	109	
L>	In	115	
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	
	Kr	84	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:44:53
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 2.021
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1337031.330	ug/L	1401732.230
>	6	Li-1			841192.628	ug/L	869807.054
	9	Be	99.613090	0.235	51383.954	ug/L	3.000
	27	Al	4991.330069	0.811	34819374.250	ug/L	6270.428
	31	P	4860.057942	0.809	2127870.395	ug/L	21841.129
	44	Ca	4914.597872	0.308	1999588.975	ug/L	36295.233
	51	V	98.781676	0.318	1314129.502	ug/L	-19380.277
	52	Cr	99.130154	0.599	1233885.840	ug/L	34544.513
	55	Mn	98.411817	0.947	1983792.654	ug/L	1946.631
	54	Fe	5023.827343	0.533	5042677.746	ug/L	110128.192
	57	Fe	4947.815811	1.370	2074017.696	ug/L	13725.335
	59	Co	97.734888	0.258	1460242.892	ug/L	115.001
	60	Ni	96.905182	0.537	316715.589	ug/L	93.855
	65	Cu	99.028161	1.666	332836.275	ug/L	313.227
	68	Zn	99.956165	0.798	122376.376	ug/L	814.586
	75	As	100.010530	0.852	316305.386	ug/L	15648.362
	82	Se	98.949122	0.863	32665.176	ug/L	1740.200
>	72	Ge-1			1239297.497	ug/L	1282074.255
	107	Ag	49.549353	0.489	625551.359	ug/L	69.334
	111	Cd	99.544461	0.428	289652.532	ug/L	20.383
	121	Sb	50.399384	1.215	467482.654	ug/L	2606.219
	135	Ba	100.597379	0.583	242065.185	ug/L	76.000
>	115	In-1			1201037.899	ug/L	1258760.610
	205	Tl	50.126339	0.715	1161198.138	ug/L	4655.116
	208	Pb	100.359519	0.952	3026325.467	ug/L	355.004
>	169	Tm-1			788228.790	ug/L	833542.774
	50	Cr	101.590455	4.186	24541.192	ug/L	-807.762
	53	Cr	95.877071	0.505	242046.660	ug/L	112735.277
	61	Ni	92.735250	1.302	6618.624	ug/L	1685.959
	63	Cu	99.136828	1.208	249728.643	ug/L	71.001
	67	Zn	99.812928	0.723	13450.022	ug/L	2792.719
	66	Zn	100.022265	0.735	65607.525	ug/L	114.670
	76	Se	77.512604	38.801	-165457.020	ug/L	-177231.008
	77	Se	97.347359	1.478	32371.533	ug/L	10696.959
	78	Se	99.930112	0.742	91513.392	ug/L	17049.421

	79 Br	6.940889	418.020	64689.551	ug/L	66515.509
>	72 Ge			1239297.497	ug/L	1282074.255
	108 Cd	100.014833	1.053	20254.271	ug/L	8.347
	114 Cd	99.304869	0.593	678804.059	ug/L	49.089
	109 Ag	50.093984	0.491	217089.624	ug/L	29.000
>	115 In			1201037.899	ug/L	1258760.610
	208 207.977	100.283643	0.569	1538912.812	ug/L	189.336
	207 Pb	100.308115	1.483	636620.609	ug/L	63.667
	206 Pb	100.535646	1.285	850792.046	ug/L	102.001
>	169 Tm			788228.790	ug/L	833542.774
	84 Kr			5717.126	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.710
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	96.663
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.414
	Tl	205	
	Pb	208	
>	Tm-1	169	94.564
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.663
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.414
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	94.564
	Kr	84	

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 14:49:21
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 2.022
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1353318.180	ug/L	1401732.230
>	6	Li-1			839955.422	ug/L	869807.054
	9	Be	0.002158	93.916	4.000	ug/L	3.000
	27	Al	-0.076608	13.748	5526.066	ug/L	6270.428
	31	P	-1.911064	215.876	20293.182	ug/L	21841.129
	44	Ca	0.082663	264.914	35111.610	ug/L	36295.233
	51	V	0.197078	212.480	-16110.139	ug/L	-19380.277
	52	Cr	-0.004634	149.627	33329.392	ug/L	34544.513
	55	Mn	-0.001408	121.645	1852.936	ug/L	1946.631
	54	Fe	-1.300588	41.535	105159.217	ug/L	110128.192
	57	Fe	-0.570644	63.572	13026.527	ug/L	13725.335
	59	Co	-0.000369	181.492	105.668	ug/L	115.001
	60	Ni	-0.000896	462.352	87.680	ug/L	93.855
	65	Cu	0.005270	41.013	320.443	ug/L	313.227
	68	Zn	0.002628	402.766	790.398	ug/L	814.586
	75	As	0.006108	404.015	15142.410	ug/L	15648.362
	82	Se	0.026436	314.102	1690.196	ug/L	1740.200
>	72	Ge-1			1239079.010	ug/L	1282074.255
	107	Ag	-0.000073	497.209	65.334	ug/L	69.334
	111	Cd	0.001676	174.783	24.385	ug/L	20.383
	121	Sb	0.014552	457.343	2627.563	ug/L	2606.219
	135	Ba	0.000841	407.726	74.667	ug/L	76.000
>	115	In-1			1203021.442	ug/L	1258760.610
	205	Tl	-0.000415	11455.247	4517.338	ug/L	4655.116
	208	Pb	-0.000263	217.945	337.003	ug/L	355.004
>	169	Tm-1			810343.593	ug/L	833542.774
	50	Cr	0.068876	104.083	-763.545	ug/L	-807.762
	53	Cr	-1.464394	67.258	106929.521	ug/L	112735.277
	61	Ni	-0.962498	178.311	1578.216	ug/L	1685.959
	63	Cu	0.002682	91.762	75.335	ug/L	71.001
	67	Zn	0.913725	124.463	2798.392	ug/L	2792.719
	66	Zn	-0.012547	103.596	102.669	ug/L	114.670
	76	Se	-6.895883	145.073	-171805.241	ug/L	-177231.008
	77	Se	-0.761324	54.126	10165.681	ug/L	10696.959
	78	Se	0.073645	115.710	16533.434	ug/L	17049.421

	79 Br	-33.012537	55.190	62476.017	ug/L	66515.509
>	72 Ge			1239079.010	ug/L	1282074.255
	108 Cd	-0.025034	65.197	2.890	ug/L	8.347
	114 Cd	0.000419	179.203	49.767	ug/L	49.089
	109 Ag	-0.000634	544.261	25.000	ug/L	29.000
>	115 In			1203021.442	ug/L	1258760.610
	208 207.977	-0.001226	59.234	164.669	ug/L	189.336
	207 Pb	0.001596	68.525	72.334	ug/L	63.667
	206 Pb	0.000089	1766.553	100.001	ug/L	102.001
>	169 Tm			810343.593	ug/L	833542.774
	84 Kr			5783.568	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.568
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	96.646
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.572
	Tl	205	
	Pb	208	
>	Tm-1	169	97.217
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.646
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.572
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.217
	Kr	84	

Sample ID: L5NLJB
Sample Description: G0H170000-240 BLK
Batch ID: 229240-243
Sample Date/Time: Wednesday, August 18, 2010 14:53:49
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\L5NLJB.023
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 20
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1318940.115	ug/L	1401732.230
>	6	Li-1			842143.239	ug/L	869807.054
	9	Be	0.000826	130.158	3.333	ug/L	3.000
	27	Al	2.187804	2.823	21022.684	ug/L	6270.428
	31	P	16.314212	19.984	27793.690	ug/L	21841.129
	44	Ca	105.491050	2.248	76169.591	ug/L	36295.233
	51	V	1.331427	9.055	-766.839	ug/L	-19380.277
	52	Cr	-1.047920	3.090	20412.034	ug/L	34544.513
	55	Mn	0.279616	1.936	7406.975	ug/L	1946.631
	54	Fe	38.582017	3.719	142340.189	ug/L	110128.192
	57	Fe	6.403716	8.254	15711.612	ug/L	13725.335
	59	Co	0.001947	40.449	138.335	ug/L	115.001
	60	Ni	0.056351	3.917	270.961	ug/L	93.855
	65	Cu	0.373050	0.724	1533.681	ug/L	313.227
	68	Zn	0.720572	3.621	1640.717	ug/L	814.586
	75	As	0.442221	8.997	16226.057	ug/L	15648.362
	82	Se	0.031927	609.299	1668.462	ug/L	1740.200
>	72	Ge-1			1221861.362	ug/L	1282074.255
	107	Ag	-0.002399	8.199	36.000	ug/L	69.334
	111	Cd	-0.000114	2058.267	19.157	ug/L	20.383
	121	Sb	-0.170937	8.235	914.400	ug/L	2606.219
	135	Ba	0.539688	3.669	1376.149	ug/L	76.000
>	115	In-1			1206107.334	ug/L	1258760.610
	205	Tl	-0.097543	11.922	2279.747	ug/L	4655.116
	208	Pb	0.027400	5.248	1229.714	ug/L	355.004
>	169	Tm-1			834433.635	ug/L	833542.774
	50	Cr	2.167500	5.162	-237.093	ug/L	-807.762
	53	Cr	-52.599677	3.563	35473.355	ug/L	112735.277
	61	Ni	-0.972911	188.629	1554.866	ug/L	1685.959
	63	Cu	0.383413	4.027	1019.896	ug/L	71.001
	67	Zn	-12.676314	11.681	1316.385	ug/L	2792.719
	66	Zn	0.874243	2.121	673.767	ug/L	114.670
	76	Se	-8.102820	166.587	-169518.562	ug/L	-177231.008
	77	Se	-32.507853	0.723	2940.142	ug/L	10696.959
	78	Se	0.375718	41.574	16526.244	ug/L	17049.421

	79 Br	-450.579479	13.870	39031.780	ug/L	66515.509
>	72 Ge			1221861.362	ug/L	1282074.255
	108 Cd	-0.019520	75.886	4.050	ug/L	8.347
	114 Cd	-0.000850	202.206	41.111	ug/L	49.089
	109 Ag	-0.004097	25.028	10.000	ug/L	29.000
>	115 In			1206107.334	ug/L	1258760.610
	208 207.977	0.029283	6.351	665.035	ug/L	189.336
	207 Pb	0.029067	14.268	258.672	ug/L	63.667
	206 Pb	0.022735	9.384	306.007	ug/L	102.001
>	169 Tm			834433.635	ug/L	833542.774
	84 Kr			5593.797	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.820
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	95.303
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.817
	Tl	205	
	Pb	208	
>	Tm-1	169	100.107
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	95.303
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.817
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.107
	Kr	84	

Sample ID: L5NLLC
Sample Description: G0H170000-243 LCS
Batch ID: 229243-240
Sample Date/Time: Wednesday, August 18, 2010 14:58:15
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\L5NLLC.024
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 101
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1224234.885	ug/L	1401732.230
>	6	Li-1			821635.788	ug/L	869807.054
	9	Be	182.519361	0.674	91958.857	ug/L	3.000
	27	Al	911.967953	0.767	5975899.513	ug/L	6270.428
	31	P	903.451733	1.194	387437.217	ug/L	21841.129
	44	Ca	1072.861346	0.689	435365.583	ug/L	36295.233
	51	V	186.529907	0.500	2344258.331	ug/L	-19380.277
	52	Cr	184.654163	0.748	2129915.278	ug/L	34544.513
	55	Mn	186.237283	0.695	3522245.794	ug/L	1946.631
	54	Fe	1025.961580	1.251	1046063.439	ug/L	110128.192
	57	Fe	951.279073	0.279	384291.886	ug/L	13725.335
	59	Co	187.636836	0.612	2630682.725	ug/L	115.001
	60	Ni	184.226991	0.892	564930.444	ug/L	93.855
	65	Cu	185.978465	0.458	586434.671	ug/L	313.227
	68	Zn	184.932389	0.247	211873.265	ug/L	814.586
	75	As	187.542355	0.825	544277.632	ug/L	15648.362
	82	Se	180.225721	0.203	54541.801	ug/L	1740.200
>	72	Ge-1			1163058.406	ug/L	1282074.255
	107	Ag	47.574569	0.349	576812.810	ug/L	69.334
	111	Cd	186.058506	0.508	519955.133	ug/L	20.383
	121	Sb	185.204701	0.727	1643417.641	ug/L	2606.219
	135	Ba	201.652436	0.795	465896.624	ug/L	76.000
>	115	In-1			1153425.932	ug/L	1258760.610
	205	Tl	51.379112	2.056	1229280.014	ug/L	4655.116
	208	Pb	198.144560	1.708	6171767.276	ug/L	355.004
>	169	Tm-1			814304.574	ug/L	833542.774
	50	Cr	176.228377	0.841	40501.035	ug/L	-807.762
	53	Cr	147.803817	2.577	294869.002	ug/L	112735.277
	61	Ni	180.195655	2.285	10625.112	ug/L	1685.959
	63	Cu	184.687270	1.071	436582.866	ug/L	71.001
	67	Zn	174.055146	2.328	20130.853	ug/L	2792.719
	66	Zn	182.465979	0.868	112243.902	ug/L	114.670
	76	Se	155.830147	12.126	-149691.903	ug/L	-177231.008
	77	Se	151.826489	0.687	41954.951	ug/L	10696.959
	78	Se	181.401614	0.394	143294.931	ug/L	17049.421

	79 Br	-552.893623	6.928	31894.441	ug/L	66515.509
>	72 Ge			1163058.406	ug/L	1282074.255
	108 Cd	182.971501	1.035	35576.826	ug/L	8.347
	114 Cd	185.423493	0.250	1217270.625	ug/L	49.089
	109 Ag	47.971146	0.792	199640.452	ug/L	29.000
>	115 In			1153425.932	ug/L	1258760.610
	208 207.977	204.640251	1.901	3243491.779	ug/L	189.336
	207 Pb	213.453399	1.450	1399434.677	ug/L	63.667
	206 Pb	174.885410	1.565	1528840.819	ug/L	102.001
>	169 Tm			814304.574	ug/L	833542.774
	84 Kr			4862.189	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.462
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	90.717
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	91.632
	Tl	205	
	Pb	208	
>	Tm-1	169	97.692
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	90.717
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	91.632
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.692
	Kr	84	

Sample ID: L5NLLL
Sample Description: G0H170000-243 LCSD
Batch ID: 229243-240
Sample Date/Time: Wednesday, August 18, 2010 15:02:39
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\L5NLLL.025
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 102
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1183000.775	ug/L	1401732.230
>	6	Li-1			804692.682	ug/L	869807.054
	9	Be	181.884804	0.644	89747.836	ug/L	3.000
	27	Al	905.932497	2.434	5769111.377	ug/L	6270.428
	31	P	886.537705	3.806	369815.196	ug/L	21841.129
	44	Ca	1083.938902	2.189	427264.077	ug/L	36295.233
	51	V	185.262732	1.642	2263121.449	ug/L	-19380.277
	52	Cr	181.586485	2.283	2036298.522	ug/L	34544.513
	55	Mn	182.555667	0.649	3355785.463	ug/L	1946.631
	54	Fe	1009.992539	0.740	1002412.932	ug/L	110128.192
	57	Fe	940.068989	0.635	369293.390	ug/L	13725.335
	59	Co	183.294175	0.994	2498022.737	ug/L	115.001
	60	Ni	181.937273	0.637	542359.797	ug/L	93.855
	65	Cu	184.454830	0.649	565336.055	ug/L	313.227
	68	Zn	184.425459	1.284	205371.440	ug/L	814.586
	75	As	187.909333	1.157	530040.923	ug/L	15648.362
	82	Se	177.846799	1.968	52335.551	ug/L	1740.200
>	72	Ge-1			1130573.039	ug/L	1282074.255
	107	Ag	47.360205	1.122	560786.608	ug/L	69.334
	111	Cd	184.981705	1.182	504796.789	ug/L	20.383
	121	Sb	184.940568	0.737	1602768.919	ug/L	2606.219
	135	Ba	198.973397	0.605	448964.516	ug/L	76.000
>	115	In-1			1126438.764	ug/L	1258760.610
	205	Tl	50.899557	1.305	1177510.149	ug/L	4655.116
	208	Pb	200.192146	0.870	6028747.278	ug/L	355.004
>	169	Tm-1			787153.961	ug/L	833542.774
	50	Cr	179.984729	1.228	40229.264	ug/L	-807.762
	53	Cr	143.186246	4.588	280693.435	ug/L	112735.277
	61	Ni	176.388760	1.050	10144.595	ug/L	1685.959
	63	Cu	182.419123	0.991	419169.274	ug/L	71.001
	67	Zn	174.274557	1.514	19584.357	ug/L	2792.719
	66	Zn	182.640930	1.082	109202.669	ug/L	114.670
	76	Se	163.780555	14.573	-144964.880	ug/L	-177231.008
	77	Se	152.664805	1.483	40954.718	ug/L	10696.959
	78	Se	182.230720	1.543	139855.457	ug/L	17049.421

	79 Br	-609.941929	6.717	28121.925	ug/L	66515.509
>	72 Ge			1130573.039	ug/L	1282074.255
	108 Cd	180.723817	0.551	34322.053	ug/L	8.347
	114 Cd	184.483050	0.883	1182678.401	ug/L	49.089
	109 Ag	47.294967	1.433	192221.186	ug/L	29.000
>	115 In			1126438.764	ug/L	1258760.610
	208 207.977	206.619536	1.100	3166321.451	ug/L	189.336
	207 Pb	216.880847	0.667	1374716.799	ug/L	63.667
	206 Pb	176.021967	0.629	1487709.028	ug/L	102.001
>	169 Tm			787153.961	ug/L	833542.774
	84 Kr			4141.152	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.514
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	88.183
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.488
	Tl	205	
	Pb	208	
>	Tm-1	169	94.435
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	88.183
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.488
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	94.435
	Kr	84	

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:24:44
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 3.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte		Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc				1173505.893	ug/L	1401732.230
>	6	Li-1				768198.679	ug/L	869807.054
	9	Be		100.115260	1.544	47162.824	ug/L	3.000
	27	Al	X	4450.111475	1.316	29063391.973	ug/L	6270.428
	31	P	X	4407.031546	2.921	1808502.605	ug/L	21841.129
	44	Ca		4596.560789	0.453	1752885.865	ug/L	36295.233
	51	V		94.905498	2.170	1181336.447	ug/L	-19380.277
	52	Cr		93.846911	1.863	1095188.011	ug/L	34544.513
	55	Mn		92.372340	1.667	1743331.500	ug/L	1946.631
	54	Fe		4722.646770	1.547	4443266.659	ug/L	110128.192
	57	Fe		4728.638051	1.735	1856100.078	ug/L	13725.335
	59	Co		93.289000	1.376	1304917.818	ug/L	115.001
	60	Ni		92.176393	1.410	282028.801	ug/L	93.855
	65	Cu		95.421045	2.193	300245.575	ug/L	313.227
	68	Zn		97.305355	1.648	111551.959	ug/L	814.586
	75	As		99.704934	0.520	295276.871	ug/L	15648.362
	82	Se		97.302215	0.734	30098.130	ug/L	1740.200
>	72	Ge-1				1160200.028	ug/L	1282074.255
	107	Ag		50.177222	0.565	579658.914	ug/L	69.334
	111	Cd		99.987211	1.361	266223.150	ug/L	20.383
	121	Sb		51.503981	1.085	437093.250	ug/L	2606.219
	135	Ba		103.775601	0.222	228484.252	ug/L	76.000
>	115	In-1				1098946.294	ug/L	1258760.610
	205	Tl		52.519271	0.174	1199445.818	ug/L	4655.116
	208	Pb		105.875563	0.838	3148083.746	ug/L	355.004
>	169	Tm-1				777157.428	ug/L	833542.774
	50	Cr		97.651927	3.035	22057.942	ug/L	-807.762
	53	Cr		87.936536	3.792	216244.615	ug/L	112735.277
	61	Ni		90.455911	1.086	6082.466	ug/L	1685.959
	63	Cu		94.177634	3.016	222123.824	ug/L	71.001
	67	Zn		100.347350	1.649	12647.116	ug/L	2792.719
	66	Zn		96.138632	1.379	59041.667	ug/L	114.670
	76	Se		67.204310	27.922	-155626.483	ug/L	-177231.008
	77	Se		96.020641	3.770	30025.867	ug/L	10696.959
	78	Se		99.258727	1.360	85200.145	ug/L	17049.421

	79 Br	-45.404015	73.645	57869.485	ug/L	66515.509
>	72 Ge			1160200.028	ug/L	1282074.255
	108 Cd	100.730072	1.303	18666.763	ug/L	8.347
	114 Cd	100.177891	0.949	626583.513	ug/L	49.089
	109 Ag	49.856490	1.943	197711.076	ug/L	29.000
>	115 In			1098946.294	ug/L	1258760.610
	208 207.977	105.842609	0.960	1601468.568	ug/L	189.336
	207 Pb	105.837819	0.736	662385.017	ug/L	63.667
	206 Pb	105.963621	0.818	884230.162	ug/L	102.001
>	169 Tm			777157.428	ug/L	833542.774
	84 Kr			4602.636	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	88.318
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	90.494
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	87.304
	Tl	205	
	Pb	208	
>	Tm-1	169	93.235
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	90.494
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	87.304
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.235
	Kr	84	

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:29:12
Method File: C:\elandata\Method\0229240.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 3.031
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1192239.450	ug/L	1401732.230
>	6	Li-1			764717.129	ug/L	869807.054
	9	Be	0.002894	264.794	4.000	ug/L	3.000
	27	Al	0.178476	185.688	6840.586	ug/L	6270.428
	31	P	-7.476653	53.012	16732.437	ug/L	21841.129
	44	Ca	-0.641521	364.713	32607.022	ug/L	36295.233
	51	V	0.452058	47.873	-11821.055	ug/L	-19380.277
	52	Cr	-0.186332	37.560	29150.305	ug/L	34544.513
	55	Mn	-0.003331	150.468	1698.894	ug/L	1946.631
	54	Fe	-8.292269	8.723	92041.207	ug/L	110128.192
	57	Fe	-3.672770	8.639	10989.651	ug/L	13725.335
	59	Co	0.006454	102.564	194.337	ug/L	115.001
	60	Ni	0.005077	143.893	100.442	ug/L	93.855
	65	Cu	0.016965	31.818	336.781	ug/L	313.227
	68	Zn	0.070822	55.086	818.138	ug/L	814.586
	75	As	0.370317	26.192	15206.120	ug/L	15648.362
	82	Se	-0.131684	190.077	1536.253	ug/L	1740.200
>	72	Ge-1			1160365.622	ug/L	1282074.255
	107	Ag	0.007860	8.205	153.002	ug/L	69.334
	111	Cd	0.009365	100.029	43.356	ug/L	20.383
	121	Sb	0.226630	72.614	4243.525	ug/L	2606.219
	135	Ba	0.009683	52.257	88.667	ug/L	76.000
>	115	In-1			1110785.987	ug/L	1258760.610
	205	Tl	0.023568	323.454	4998.134	ug/L	4655.116
	208	Pb	0.011401	80.551	686.683	ug/L	355.004
>	169	Tm-1			795220.608	ug/L	833542.774
	50	Cr	0.199961	25.178	-684.419	ug/L	-807.762
	53	Cr	-5.719683	13.500	94595.235	ug/L	112735.277
	61	Ni	-1.186078	107.523	1466.474	ug/L	1685.959
	63	Cu	0.017293	67.180	105.003	ug/L	71.001
	67	Zn	2.850232	34.452	2815.411	ug/L	2792.719
	66	Zn	0.024403	112.350	118.670	ug/L	114.670
	76	Se	-11.154205	200.622	-161205.104	ug/L	-177231.008
	77	Se	-4.598027	6.171	8706.834	ug/L	10696.959
	78	Se	-0.597564	10.291	15010.789	ug/L	17049.421

	79 Br	-61.189583	23.424	57055.162	ug/L	66515.509
>	72 Ge			1160365.622	ug/L	1282074.255
	108 Cd	-0.017661	120.369	4.039	ug/L	8.347
	114 Cd	0.005369	112.231	77.492	ug/L	49.089
	109 Ag	0.006749	15.332	52.667	ug/L	29.000
>	115 In			1110785.987	ug/L	1258760.610
	208 207.977	0.011073	92.106	352.678	ug/L	189.336
	207 Pb	0.012905	78.914	143.669	ug/L	63.667
	206 Pb	0.010867	61.780	190.336	ug/L	102.001
>	169 Tm			795220.608	ug/L	833542.774
	84 Kr			5110.197	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	87.918
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	90.507
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	88.244
	Tl	205	
	Pb	208	
>	Tm-1	169	95.402
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	90.507
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	88.244
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.402
	Kr	84	

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:41:11
Method File: c:\elandata\Method\0229240b.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 4.032
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte		Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc				1116301.741	ug/L	1401732.230
>	6	Li-1				730681.365	ug/L	869807.054
	9	Be		100.686661	1.749	45101.274	ug/L	3.000
	27	Al	x	4278.655000	0.876	27105555.986	ug/L	6270.428
	31	P	x	4293.450335	1.835	1709405.265	ug/L	21841.129
	44	Ca		4504.998439	0.358	1667033.094	ug/L	36295.233
	52	Cr		92.024023	1.321	1042355.792	ug/L	34544.513
	55	Mn		89.957850	1.247	1646963.164	ug/L	1946.631
	59	Co		92.059184	1.114	1249011.158	ug/L	115.001
	60	Ni		90.003806	2.780	267149.429	ug/L	93.855
	65	Cu		94.723485	0.854	289126.968	ug/L	313.227
	68	Zn		97.618456	0.208	108547.413	ug/L	814.586
	75	As		100.095399	0.472	287463.316	ug/L	15648.362
	82	Se		95.468089	0.849	28673.768	ug/L	1740.200
>	72	Ge-1				1125332.591	ug/L	1282074.255
	111	Cd		100.752454	0.532	258260.171	ug/L	20.383
	121	Sb		51.983586	1.493	424689.893	ug/L	2606.219
	135	Ba		104.377271	1.188	221248.380	ug/L	76.000
>	115	In-1				1057986.405	ug/L	1258760.610
	208	Pb		107.107515	0.804	3069022.383	ug/L	355.004
>	169	Tm-1				748952.716	ug/L	833542.774
	50	Cr		105.213578	4.106	23107.816	ug/L	-807.762
	53	Cr		-19.081591	8.466	74911.108	ug/L	112735.277
	61	Ni		89.712974	3.610	5863.560	ug/L	1685.959
	63	Cu		93.610649	0.994	214143.174	ug/L	71.001
	67	Zn		99.728660	1.726	12205.025	ug/L	2792.719
	66	Zn		95.237832	0.924	56734.879	ug/L	114.670
	76	Se		59.429035	46.734	-151459.702	ug/L	-177231.008
	77	Se		95.110406	1.318	28938.661	ug/L	10696.959
	78	Se		98.426659	0.786	82075.808	ug/L	17049.421
	79	Br		-84.971770	28.598	54155.590	ug/L	66515.509
>	72	Ge				1125332.591	ug/L	1282074.255
	108	Cd		100.982021	0.169	18015.298	ug/L	8.347
	114	Cd		100.345459	0.554	604251.500	ug/L	49.089
>	115	In				1057986.405	ug/L	1258760.610

⌈	208	207.977	107.219172	1.036	1563386.671	ug/L	189.336
|	207	Pb	107.324568	1.056	647237.238	ug/L	63.667
|	206	Pb	106.742277	0.444	858398.474	ug/L	102.001
⌊>	169	Tm			748952.716	ug/L	833542.774
	84	Kr			4869.336	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	84.005
⌊	Be	9	
⌈	Al	27	
|	P	31	
|	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
⌊>	Ge-1	72	87.774
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	84.050
⌈	Pb	208	
⌊>	Tm-1	169	89.852
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
⌊>	Ge	72	87.774
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	84.050
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	89.852
	Kr	84	

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:45:26
Method File: c:\elandata\Method\0229240b.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 4.033
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1146801.151	ug/L	1401732.230
>	6	Li-1			746993.768	ug/L	869807.054
	9	Be	0.008232	156.748	6.333	ug/L	3.000
	27	Al	0.107988	273.455	6283.287	ug/L	6270.428
	31	P	-4.702345	117.324	17590.859	ug/L	21841.129
	44	Ca	-0.710058	154.815	32099.092	ug/L	36295.233
	52	Cr	-0.312370	19.947	27311.174	ug/L	34544.513
	55	Mn	-0.003961	203.749	1661.885	ug/L	1946.631
	59	Co	0.006623	118.750	193.670	ug/L	115.001
	60	Ni	0.004504	134.767	97.233	ug/L	93.855
	65	Cu	0.012455	44.312	317.873	ug/L	313.227
	68	Zn	0.047781	67.593	779.878	ug/L	814.586
	75	As	0.360907	8.924	14954.976	ug/L	15648.362
	82	Se	-0.164945	147.853	1503.916	ug/L	1740.200
>	72	Ge-1			1143116.911	ug/L	1282074.255
	111	Cd	0.007103	146.960	36.167	ug/L	20.383
	121	Sb	0.234768	72.775	4196.821	ug/L	2606.219
	135	Ba	0.009175	119.967	85.334	ug/L	76.000
>	115	In-1			1084217.752	ug/L	1258760.610
	208	Pb	0.010126	87.718	634.680	ug/L	355.004
>	169	Tm-1			781344.325	ug/L	833542.774
	50	Cr	2.083023	6.768	-241.099	ug/L	-807.762
	53	Cr	-53.063640	1.451	32578.966	ug/L	112735.277
	61	Ni	-3.133448	16.523	1347.733	ug/L	1685.959
	63	Cu	0.014946	76.816	98.002	ug/L	71.001
	67	Zn	2.678074	22.583	2756.004	ug/L	2792.719
	66	Zn	0.006807	337.037	106.336	ug/L	114.670
	76	Se	-14.196361	73.647	-159014.926	ug/L	-177231.008
	77	Se	-4.280431	11.579	8643.774	ug/L	10696.959
	78	Se	-0.251348	124.769	15027.160	ug/L	17049.421
	79	Br	-88.782121	25.901	54811.451	ug/L	66515.509
>	72	Ge			1143116.911	ug/L	1282074.255
	108	Cd	0.003865	236.048	7.890	ug/L	8.347
	114	Cd	0.006523	104.365	82.413	ug/L	49.089
>	115	In			1084217.752	ug/L	1258760.610

208	207.977	0.008539	83.235	307.008	ug/L	189.336
207	Pb	0.014017	83.231	147.669	ug/L	63.667
206	Pb	0.010085	101.904	180.003	ug/L	102.001
169	Tm			781344.325	ug/L	833542.774
84	Kr			5091.302	ug/L	5909.995

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	85.880
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	89.162
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	86.134
	Pb	208	
>	Tm-1	169	93.738
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	89.162
	Cd	108	
	Cd	114	
>	In	115	86.134
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.738
	Kr	84	

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:45:26
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 4.033
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1146801.151	ug/L	
>	6	Li-1			746993.768	ug/L	
	9	Be			6.333	ug/L	
	27	Al			6283.287	ug/L	
	31	P			17590.859	ug/L	
	44	Ca			32099.092	ug/L	
	52	Cr			27311.174	ug/L	
	55	Mn			1661.885	ug/L	
	59	Co			193.670	ug/L	
	60	Ni			97.233	ug/L	
	65	Cu			317.873	ug/L	
	68	Zn			779.878	ug/L	
	75	As			14954.976	ug/L	
	82	Se			1503.916	ug/L	
>	72	Ge-1			1143116.911	ug/L	
	111	Cd			36.167	ug/L	
	121	Sb			4196.821	ug/L	
	135	Ba			85.334	ug/L	
>	115	In-1			1084217.752	ug/L	
	208	Pb			634.680	ug/L	
>	169	Tm-1			781344.325	ug/L	
	50	Cr			-241.099	ug/L	
	53	Cr			32578.966	ug/L	
	61	Ni			1347.733	ug/L	
	63	Cu			98.002	ug/L	
	67	Zn			2756.004	ug/L	
	66	Zn			106.336	ug/L	
	76	Se			-159014.926	ug/L	
	77	Se			8643.774	ug/L	
	78	Se			15027.160	ug/L	
	79	Br			54811.451	ug/L	
>	72	Ge			1143116.911	ug/L	
	108	Cd			7.890	ug/L	
	114	Cd			82.413	ug/L	
>	115	In			1084217.752	ug/L	

	208 207.977	307.008	ug/L
	207 Pb	147.669	ug/L
	206 Pb	180.003	ug/L
>	169 Tm	781344.325	ug/L
	84 Kr	5091.302	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Kr	84	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:41:11
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 4.032
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1116301.741	ug/L	1146801.151
⌈>	6	Li-1			730681.365	ug/L	746993.768
⌊	9	Be	100.000000	1.750	45101.274	ug/L	6.333
⌈	27	Al	5100.000000	0.876	27105555.986	ug/L	6283.287
|	31	P	5000.000000	1.833	1709405.265	ug/L	17590.859
|	44	Ca	5100.000000	0.358	1667033.094	ug/L	32099.092
|	52	Cr	100.000000	1.317	1042355.792	ug/L	27311.174
|	55	Mn	100.000000	1.247	1646963.164	ug/L	1661.885
|	59	Co	100.000000	1.114	1249011.158	ug/L	193.670
|	60	Ni	100.000000	2.780	267149.429	ug/L	97.233
|	65	Cu	100.000000	0.854	289126.968	ug/L	317.873
|	68	Zn	100.000000	0.208	108547.413	ug/L	779.878
|	75	As	100.000000	0.473	287463.316	ug/L	14954.976
|	82	Se	100.000000	0.848	28673.768	ug/L	1503.916
⌊>	72	Ge-1			1125332.591	ug/L	1143116.911
⌈	111	Cd	100.000000	0.532	258260.171	ug/L	36.167
|	121	Sb	50.000000	1.500	424689.893	ug/L	4196.821
|	135	Ba	100.000000	1.188	221248.380	ug/L	85.334
⌊>	115	In-1			1057986.405	ug/L	1084217.752
⌈	208	Pb	100.000000	0.804	3069022.383	ug/L	634.680
⌊>	169	Tm-1			748952.716	ug/L	781344.325
⌈	50	Cr	100.000000	4.189	23107.816	ug/L	-241.099
|	53	Cr	100.000000	4.754	74911.108	ug/L	32578.966
|	61	Ni	100.000000	3.488	5863.560	ug/L	1347.733
|	63	Cu	100.000000	0.994	214143.174	ug/L	98.002
|	67	Zn	100.000000	1.773	12205.025	ug/L	2756.004
|	66	Zn	100.000000	0.924	56734.879	ug/L	106.336
|	76	Se	100.000000	37.725	-151459.702	ug/L	-159014.926
|	77	Se	100.000000	1.261	28938.661	ug/L	8643.774
|	78	Se	100.000000	0.784	82075.808	ug/L	15027.160
|	79	Br	100.000000	634.796	54155.590	ug/L	54811.451
⌊>	72	Ge			1125332.591	ug/L	1143116.911
⌈	108	Cd	100.000000	0.169	18015.298	ug/L	7.890
|	114	Cd	100.000000	0.554	604251.500	ug/L	82.413
⌊>	115	In			1057986.405	ug/L	1084217.752

	208 207.977	100.000000	1.036	1563386.671	ug/L	307.008
	207 Pb	100.000000	1.056	647237.238	ug/L	147.669
	206 Pb	100.000000	0.444	858398.474	ug/L	180.003
>	169 Tm			748952.716	ug/L	781344.325
	84 Kr			4869.336	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Kr	84	

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:49:40
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 5.034
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1110685.514	ug/L	1146801.151
>	6	Li-1			733636.116	ug/L	746993.768
	9	Be	99.697537	1.380	45153.295	ug/L	6.333
	27	Al	5050.927679	0.619	26892714.197	ug/L	6283.287
	31	P	4958.438182	1.011	1698351.490	ug/L	17590.859
	44	Ca	4990.764790	0.587	1634859.712	ug/L	32099.092
	52	Cr	99.425911	1.394	1038421.124	ug/L	27311.174
	55	Mn	99.739868	1.434	1645640.449	ug/L	1661.885
	59	Co	100.170002	0.255	1253326.085	ug/L	193.670
	60	Ni	99.942417	1.009	267440.277	ug/L	97.233
	65	Cu	99.402439	0.619	287905.879	ug/L	317.873
	68	Zn	99.022067	1.078	107676.535	ug/L	779.878
	75	As	98.775443	0.500	284646.957	ug/L	14954.976
	82	Se	99.101748	0.449	28478.881	ug/L	1503.916
>	72	Ge-1			1127337.778	ug/L	1143116.911
	111	Cd	98.834489	1.066	258270.820	ug/L	36.167
	121	Sb	49.387498	1.361	424504.625	ug/L	4196.821
	135	Ba	98.595414	0.947	220710.637	ug/L	85.334
>	115	In-1			1070505.876	ug/L	1084217.752
	208	Pb	98.054576	0.490	3044315.530	ug/L	634.680
>	169	Tm-1			757629.113	ug/L	781344.325
	50	Cr	102.459790	1.512	23729.455	ug/L	-241.099
	53	Cr	95.848588	4.150	73262.850	ug/L	32578.966
	61	Ni	97.184714	1.922	5745.924	ug/L	1347.733
	63	Cu	99.501779	0.768	213449.184	ug/L	98.002
	67	Zn	98.635771	0.196	12096.442	ug/L	2756.004
	66	Zn	100.321449	0.561	57016.428	ug/L	106.336
	76	Se	102.206777	12.705	-151622.298	ug/L	-159014.926
	77	Se	98.724555	1.511	28725.646	ug/L	8643.774
	78	Se	98.569643	0.863	81254.451	ug/L	15027.160
	79	Br	-904.423996	19.505	52327.861	ug/L	54811.451
>	72	Ge			1127337.778	ug/L	1143116.911
	108	Cd	98.783056	0.230	18006.454	ug/L	7.890
	114	Cd	99.075415	0.821	605743.929	ug/L	82.413
>	115	In			1070505.876	ug/L	1084217.752

	208 207.977	97.902703	0.804	1548375.826	ug/L	307.008
	207 Pb	98.052882	0.529	642052.252	ug/L	147.669
	206 Pb	98.332459	1.324	853887.452	ug/L	180.003
>	169 Tm			757629.113	ug/L	781344.325
	84 Kr			4668.366	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.212
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	98.620
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.735
	Pb	208	
>	Tm-1	169	96.965
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.620
	Cd	108	
	Cd	114	
>	In	115	98.735
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.965
	Kr	84	

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 15:53:55
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 5.035
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1141277.147	ug/L	1146801.151
>	6	Li-1			736679.744	ug/L	746993.768
	9	Be	0.000866	1129.606	6.667	ug/L	6.333
	27	Al	-0.076685	291.302	5814.405	ug/L	6283.287
	31	P	-3.520473	75.781	16203.313	ug/L	17590.859
	44	Ca	-0.042042	2127.773	31737.953	ug/L	32099.092
	52	Cr	-0.077985	82.216	26215.560	ug/L	27311.174
	55	Mn	-0.004410	88.879	1571.194	ug/L	1661.885
	59	Co	-0.003185	153.801	152.002	ug/L	193.670
	60	Ni	-0.006232	64.095	79.458	ug/L	97.233
	65	Cu	0.004551	303.060	327.938	ug/L	317.873
	68	Zn	0.007478	355.647	779.742	ug/L	779.878
	75	As	0.111682	124.365	15102.219	ug/L	14954.976
	82	Se	0.115584	159.635	1519.642	ug/L	1503.916
>	72	Ge-1			1130788.474	ug/L	1143116.911
	111	Cd	0.000395	1243.404	36.882	ug/L	36.167
	121	Sb	0.012233	1274.451	4262.857	ug/L	4196.821
	135	Ba	-0.002590	79.595	78.667	ug/L	85.334
>	115	In-1			1073182.610	ug/L	1084217.752
	208	Pb	-0.000463	1258.593	622.012	ug/L	634.680
>	169	Tm-1			780293.951	ug/L	781344.325
	50	Cr	0.008636	906.602	-236.364	ug/L	-241.099
	53	Cr	-1.079463	66.162	31765.519	ug/L	32578.966
	61	Ni	-0.172632	825.420	1325.721	ug/L	1347.733
	63	Cu	-0.005923	148.394	84.335	ug/L	98.002
	67	Zn	0.045543	912.339	2730.306	ug/L	2756.004
	66	Zn	0.030470	100.585	122.670	ug/L	106.336
	76	Se	6.098269	572.260	-157001.176	ug/L	-159014.926
	77	Se	-1.088680	38.240	8326.478	ug/L	8643.774
	78	Se	0.201688	27.304	15001.747	ug/L	15027.160
	79	Br	-328.331363	20.259	53590.169	ug/L	54811.451
>	72	Ge			1130788.474	ug/L	1143116.911
	108	Cd	0.005337	493.180	8.804	ug/L	7.890
	114	Cd	-0.001441	283.678	72.835	ug/L	82.413
>	115	In			1073182.610	ug/L	1084217.752

208	207.977	0.000052	11625.585	309.008	ug/L	307.008
207	Pb	-0.001548	382.131	137.668	ug/L	147.669
206	Pb	-0.000582	932.071	175.336	ug/L	180.003
> 169	Tm			780293.951	ug/L	781344.325
84	Kr			5200.230	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.619
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	98.922
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.982
	Pb	208	
>	Tm-1	169	99.866
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.922
	Cd	108	
	Cd	114	
>	In	115	98.982
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.866
	Kr	84	

Sample ID: CCV 6
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 16:40:17
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 6.046
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1050625.100	ug/L	1146801.151
>	6	Li-1			702931.564	ug/L	746993.768
	9	Be	101.603146	0.673	44099.308	ug/L	6.333
	27	Al	4978.256646	0.119	25646510.103	ug/L	6283.287
	31	P	4924.518026	0.311	1632050.020	ug/L	17590.859
	44	Ca	4872.201707	0.907	1545079.181	ug/L	32099.092
	52	Cr	100.142077	1.709	1011970.255	ug/L	27311.174
	55	Mn	98.470866	1.684	1571959.925	ug/L	1661.885
	59	Co	100.206568	1.009	1212993.603	ug/L	193.670
	60	Ni	101.168598	0.653	261922.003	ug/L	97.233
	65	Cu	101.781944	1.217	285208.409	ug/L	317.873
	68	Zn	99.980305	1.212	105184.207	ug/L	779.878
	75	As	99.359200	0.626	276940.134	ug/L	14954.976
	82	Se	100.566153	1.729	27936.327	ug/L	1503.916
>	72	Ge-1			1090834.398	ug/L	1143116.911
	111	Cd	98.434176	0.162	248878.001	ug/L	36.167
	121	Sb	49.638246	0.831	412796.901	ug/L	4196.821
	135	Ba	100.010352	1.074	216624.031	ug/L	85.334
>	115	In-1			1035773.237	ug/L	1084217.752
	208	Pb	99.563544	0.731	3087400.171	ug/L	634.680
>	169	Tm-1			756751.303	ug/L	781344.325
	50	Cr	108.270386	5.802	24297.323	ug/L	-241.099
	53	Cr	100.195225	2.617	72700.502	ug/L	32578.966
	61	Ni	99.184489	2.320	5645.671	ug/L	1347.733
	63	Cu	101.549867	0.900	210773.788	ug/L	98.002
	67	Zn	100.193799	0.749	11847.139	ug/L	2756.004
	66	Zn	100.499646	0.714	55262.652	ug/L	106.336
	76	Se	116.857721	31.964	-146028.022	ug/L	-159014.926
	77	Se	101.588625	1.126	28366.882	ug/L	8643.774
	78	Se	99.244151	1.640	79052.558	ug/L	15027.160
	79	Br	-832.594499	22.256	50769.458	ug/L	54811.451
>	72	Ge			1090834.398	ug/L	1143116.911
	108	Cd	97.148019	0.616	17134.163	ug/L	7.890
	114	Cd	99.543296	0.443	588864.809	ug/L	82.413
>	115	In			1035773.237	ug/L	1084217.752

208	207.977	99.262162	1.385	1567864.563	ug/L	307.008
207	Pb	100.018337	0.354	654179.172	ug/L	147.669
206	Pb	99.769518	0.151	865356.436	ug/L	180.003
169	Tm			756751.303	ug/L	781344.325
84	Kr			4551.699	ug/L	5091.302

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	94.101
Be	9	
Al	27	
P	31	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	95.426
Cd	111	
Sb	121	
Ba	135	
In-1	115	95.532
Pb	208	
Tm-1	169	96.852
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	95.426
Cd	108	
Cd	114	
In	115	95.532
207.977	208	
Pb	207	
Pb	206	
Tm	169	96.852
Kr	84	

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 16:44:32
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 6.047
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1047748.800	ug/L	1146801.151
>	6	Li-1			691479.432	ug/L	746993.768
	9	Be	0.009593	156.197	10.000	ug/L	6.333
	27	Al	0.056617	539.820	6353.989	ug/L	6283.287
	31	P	-5.878367	96.711	14994.551	ug/L	17590.859
	44	Ca	0.678113	138.702	31079.044	ug/L	32099.092
	52	Cr	0.010995	128.220	26374.891	ug/L	27311.174
	55	Mn	-0.001422	470.594	1576.530	ug/L	1661.885
	59	Co	0.000409	1386.836	192.003	ug/L	193.670
	60	Ni	-0.004556	132.738	81.797	ug/L	97.233
	65	Cu	-0.002229	818.366	299.972	ug/L	317.873
	68	Zn	-0.002634	746.918	747.430	ug/L	779.878
	75	As	0.082053	144.657	14604.096	ug/L	14954.976
	82	Se	-0.135159	107.235	1410.553	ug/L	1503.916
>	72	Ge-1			1099337.141	ug/L	1143116.911
	111	Cd	-0.000726	710.659	32.930	ug/L	36.167
	121	Sb	-0.003860	3758.790	4000.009	ug/L	4196.821
	135	Ba	0.000964	908.365	84.001	ug/L	85.334
>	115	In-1			1037617.903	ug/L	1084217.752
	208	Pb	0.002030	360.188	678.015	ug/L	634.680
>	169	Tm-1			756213.412	ug/L	781344.325
	50	Cr	-0.052609	13.096	-243.877	ug/L	-241.099
	53	Cr	-1.250095	84.132	30806.766	ug/L	32578.966
	61	Ni	-2.458584	17.527	1186.977	ug/L	1347.733
	63	Cu	0.002018	1150.357	99.003	ug/L	98.002
	67	Zn	-0.256953	495.895	2627.855	ug/L	2756.004
	66	Zn	0.016261	228.543	111.336	ug/L	106.336
	76	Se	-34.643320	67.415	-154650.900	ug/L	-159014.926
	77	Se	0.628173	114.568	8436.580	ug/L	8643.774
	78	Se	-0.489605	34.847	14130.386	ug/L	15027.160
	79	Br	-876.304843	26.108	51080.140	ug/L	54811.451
>	72	Ge			1099337.141	ug/L	1143116.911
	108	Cd	-0.005893	348.232	6.532	ug/L	7.890
	114	Cd	0.002916	310.602	96.848	ug/L	82.413
>	115	In			1037617.903	ug/L	1084217.752

208	207.977	0.002962	258.632	344.343	ug/L	307.008
207	Pb	0.001511	552.802	153.002	ug/L	147.669
206	Pb	0.000724	824.257	180.669	ug/L	180.003
> 169	Tm			756213.412	ug/L	781344.325
84	Kr			4975.803	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.568
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	96.170
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.702
	Pb	208	
>	Tm-1	169	96.784
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.170
	Cd	108	
	Cd	114	
>	In	115	95.702
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.784
	Kr	84	

Sample ID: CCV 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 16:48:47
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 7.048
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1031390.829	ug/L	1146801.151
>	6	Li-1			688048.910	ug/L	746993.768
	9	Be	101.059593	0.825	42933.020	ug/L	6.333
	27	Al	4785.702755	1.332	24557006.920	ug/L	6283.287
	31	P	4705.458592	0.448	1554122.754	ug/L	17590.859
	44	Ca	4813.407736	1.052	1520877.329	ug/L	32099.092
	52	Cr	97.013123	0.288	977097.230	ug/L	27311.174
	55	Mn	96.722798	0.654	1538032.007	ug/L	1661.885
	59	Co	97.650025	0.290	1177582.155	ug/L	193.670
	60	Ni	97.696583	1.276	251980.874	ug/L	97.233
	65	Cu	99.176420	0.315	276861.404	ug/L	317.873
	68	Zn	98.669019	0.858	103423.491	ug/L	779.878
	75	As	98.471860	0.448	273535.730	ug/L	14954.976
	82	Se	97.332800	1.407	26985.260	ug/L	1503.916
>	72	Ge-1			1086550.177	ug/L	1143116.911
	111	Cd	97.860981	0.594	244060.714	ug/L	36.167
	121	Sb	49.595741	1.571	406827.690	ug/L	4196.821
	135	Ba	99.940671	1.766	213505.721	ug/L	85.334
>	115	In-1			1021735.399	ug/L	1084217.752
	208	Pb	98.591037	1.111	3013188.591	ug/L	634.680
>	169	Tm-1			745835.742	ug/L	781344.325
	50	Cr	104.787791	3.003	23397.609	ug/L	-241.099
	53	Cr	93.463956	5.391	69625.931	ug/L	32578.966
	61	Ni	91.641408	1.053	5294.493	ug/L	1347.733
	63	Cu	97.664618	0.842	201939.941	ug/L	98.002
	67	Zn	98.079211	2.773	11607.574	ug/L	2756.004
	66	Zn	97.980030	0.706	53672.388	ug/L	106.336
	76	Se	79.761267	3.836	-147240.085	ug/L	-159014.926
	77	Se	97.224254	1.907	27393.217	ug/L	8643.774
	78	Se	96.768980	1.350	77145.978	ug/L	15027.160
	79	Br	-1165.045000	39.177	49956.261	ug/L	54811.451
>	72	Ge			1086550.177	ug/L	1143116.911
	108	Cd	96.790640	2.495	16836.488	ug/L	7.890
	114	Cd	98.901021	0.597	577110.330	ug/L	82.413
>	115	In			1021735.399	ug/L	1084217.752

208	207.977	98.173461	1.506	1528395.709	ug/L	307.008
207	Pb	98.967088	1.149	637931.610	ug/L	147.669
206	Pb	99.068009	0.770	846861.272	ug/L	180.003
169	Tm			745835.742	ug/L	781344.325
84	Kr			4189.776	ug/L	5091.302

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	92.109
Be	9	
Al	27	
P	31	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	95.052
Cd	111	
Sb	121	
Ba	135	
In-1	115	94.237
Pb	208	
Tm-1	169	95.455
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	95.052
Cd	108	
Cd	114	
In	115	94.237
207.977	208	
Pb	207	
Pb	206	
Tm	169	95.455
Kr	84	

Sample ID: CCB 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 16:53:01
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 7.049
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1057195.534	ug/L	1146801.151
>	6	Li-1			704627.576	ug/L	746993.768
	9	Be	-0.007575	36.607	2.667	ug/L	6.333
	27	Al	-0.383107	4.604	4026.942	ug/L	6283.287
	31	P	-1.407819	416.000	16356.232	ug/L	17590.859
	44	Ca	0.612566	141.710	30843.905	ug/L	32099.092
	52	Cr	0.108593	25.730	27152.146	ug/L	27311.174
	55	Mn	-0.007225	24.988	1472.170	ug/L	1661.885
	59	Co	-0.007435	11.454	95.001	ug/L	193.670
	60	Ni	-0.007695	22.354	72.933	ug/L	97.233
	65	Cu	-0.000076	7295.462	303.465	ug/L	317.873
	68	Zn	0.025788	296.959	772.600	ug/L	779.878
	75	As	-0.214587	80.816	13710.856	ug/L	14954.976
	82	Se	-0.141742	160.479	1398.372	ug/L	1503.916
>	72	Ge-1			1091735.655	ug/L	1143116.911
	111	Cd	-0.007770	10.039	15.034	ug/L	36.167
	121	Sb	-0.177167	30.885	2576.201	ug/L	4196.821
	135	Ba	-0.006081	52.225	69.000	ug/L	85.334
>	115	In-1			1044481.629	ug/L	1084217.752
	208	Pb	-0.007927	17.640	375.004	ug/L	634.680
>	169	Tm-1			768575.103	ug/L	781344.325
	50	Cr	-0.006371	668.162	-231.798	ug/L	-241.099
	53	Cr	2.485005	47.943	32150.600	ug/L	32578.966
	61	Ni	0.689733	196.265	1317.716	ug/L	1347.733
	63	Cu	-0.013673	42.147	65.334	ug/L	98.002
	67	Zn	1.195251	151.684	2743.327	ug/L	2756.004
	66	Zn	0.006334	285.013	105.002	ug/L	106.336
	76	Se	-23.102069	87.316	-153009.222	ug/L	-159014.926
	77	Se	1.675750	25.601	8588.056	ug/L	8643.774
	78	Se	-0.357451	139.092	14114.802	ug/L	15027.160
	79	Br	-562.326313	40.375	51309.771	ug/L	54811.451
>	72	Ge			1091735.655	ug/L	1143116.911
	108	Cd	0.001227	878.805	7.840	ug/L	7.890
	114	Cd	-0.008455	4.683	28.977	ug/L	82.413
>	115	In			1044481.629	ug/L	1084217.752

208	207.977	-0.006987	12.631	190.003	ug/L	307.008
207	Pb	-0.009284	21.893	83.667	ug/L	147.669
206	Pb	-0.008615	25.526	101.334	ug/L	180.003
169	Tm			768575.103	ug/L	781344.325
84	Kr			4870.415	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.328
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	95.505
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.335
	Pb	208	
>	Tm-1	169	98.366
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	95.505
	Cd	108	
	Cd	114	
>	In	115	96.335
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.366
	Kr	84	

Sample ID: CCV 8
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 17:39:14
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 8.060
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1024365.295	ug/L	1146801.151
>	6	Li-1			695236.317	ug/L	746993.768
	9	Be	100.662411	0.932	43207.192	ug/L	6.333
	27	Al	4901.250093	1.125	24896628.382	ug/L	6283.287
	31	P	4828.526623	2.627	1578444.239	ug/L	17590.859
	44	Ca	4820.749778	0.667	1507712.980	ug/L	32099.092
	52	Cr	99.820865	1.398	994482.543	ug/L	27311.174
	55	Mn	98.056774	0.557	1543382.179	ug/L	1661.885
	59	Co	99.283055	0.956	1185104.918	ug/L	193.670
	60	Ni	98.663098	0.914	251863.978	ug/L	97.233
	65	Cu	100.126571	0.865	276682.480	ug/L	317.873
	68	Zn	98.907585	0.693	102615.005	ug/L	779.878
	75	As	99.068185	0.715	272296.073	ug/L	14954.976
	82	Se	97.658934	0.707	26795.159	ug/L	1503.916
>	72	Ge-1			1075493.828	ug/L	1143116.911
	111	Cd	98.021618	1.079	242907.113	ug/L	36.167
	121	Sb	49.797329	1.298	405863.586	ug/L	4196.821
	135	Ba	100.431164	1.215	213201.470	ug/L	85.334
>	115	In-1			1015269.875	ug/L	1084217.752
	208	Pb	99.948798	0.188	3053034.577	ug/L	634.680
>	169	Tm-1			745405.319	ug/L	781344.325
	50	Cr	103.461917	2.112	22858.192	ug/L	-241.099
	53	Cr	98.721746	3.882	71073.656	ug/L	32578.966
	61	Ni	93.761058	0.968	5332.918	ug/L	1347.733
	63	Cu	99.430488	0.424	203496.218	ug/L	98.002
	67	Zn	100.901900	1.643	11746.621	ug/L	2756.004
	66	Zn	100.142589	1.454	54302.689	ug/L	106.336
	76	Se	94.877592	31.161	-145012.779	ug/L	-159014.926
	77	Se	98.920894	1.556	27446.045	ug/L	8643.774
	78	Se	96.852255	1.070	76422.751	ug/L	15027.160
	79	Br	-921.509645	69.370	49897.673	ug/L	54811.451
>	72	Ge			1075493.828	ug/L	1143116.911
	108	Cd	98.288354	2.146	16987.951	ug/L	7.890
	114	Cd	99.174881	0.561	575024.236	ug/L	82.413
>	115	In			1015269.875	ug/L	1084217.752

	208 207.977	99.681976	0.716	1551157.667	ug/L	307.008
	207 Pb	100.158846	0.714	645206.157	ug/L	147.669
	206 Pb	100.276378	0.675	856670.753	ug/L	180.003
>	169 Tm			745405.319	ug/L	781344.325
	84 Kr			4376.963	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.071
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	94.084
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.641
	Pb	208	
>	Tm-1	169	95.400
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.084
	Cd	108	
	Cd	114	
>	In	115	93.641
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.400
	Kr	84	

Sample ID: CCB 8
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 17:43:28
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 8.061
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1037763.966	ug/L	1146801.151
⌈>	6	Li-1			689240.997	ug/L	746993.768
⌊	9	Be	-0.005888	46.750	3.333	ug/L	6.333
⌈	27	Al	-0.377688	12.664	4035.616	ug/L	6283.287
|	31	P	-3.010110	144.569	15741.227	ug/L	17590.859
|	44	Ca	-1.431919	56.193	30069.214	ug/L	32099.092
|	52	Cr	0.069956	58.076	26647.354	ug/L	27311.174
|	55	Mn	-0.004884	124.423	1502.178	ug/L	1661.885
|	59	Co	-0.006624	36.936	104.334	ug/L	193.670
|	60	Ni	-0.006922	48.986	74.572	ug/L	97.233
|	65	Cu	-0.001299	528.757	298.600	ug/L	317.873
|	68	Zn	0.046813	71.146	790.024	ug/L	779.878
|	75	As	-0.271080	31.511	13501.529	ug/L	14954.976
|	82	Se	-0.061156	30.306	1413.513	ug/L	1503.916
⌊>	72	Ge-1			1086602.479	ug/L	1143116.911
⌈	111	Cd	-0.003366	109.106	25.695	ug/L	36.167
|	121	Sb	-0.176175	35.883	2527.516	ug/L	4196.821
|	135	Ba	-0.002444	68.432	75.334	ug/L	85.334
⌊>	115	In-1			1023403.448	ug/L	1084217.752
⌈	208	Pb	-0.007706	18.057	374.338	ug/L	634.680
⌊>	169	Tm-1			753116.894	ug/L	781344.325
⌈	50	Cr	-0.092618	142.972	-250.055	ug/L	-241.099
|	53	Cr	1.766331	50.956	31698.888	ug/L	32578.966
|	61	Ni	-0.381309	630.643	1264.687	ug/L	1347.733
|	63	Cu	-0.011193	46.543	70.001	ug/L	98.002
|	67	Zn	1.858098	69.023	2790.381	ug/L	2756.004
|	66	Zn	-0.003188	14.599	99.336	ug/L	106.336
|	76	Se	-20.375619	42.633	-152152.284	ug/L	-159014.926
|	77	Se	1.934445	40.827	8597.731	ug/L	8643.774
|	78	Se	-0.846269	20.130	13734.339	ug/L	15027.160
|	79	Br	-382.745972	74.064	51396.895	ug/L	54811.451
⌊>	72	Ge			1086602.479	ug/L	1143116.911
⌈	108	Cd	-0.027543	143.548	2.680	ug/L	7.890
|	114	Cd	-0.006449	10.084	40.117	ug/L	82.413
⌊>	115	In			1023403.448	ug/L	1084217.752

208	207.977	-0.007138	32.263	184.003	ug/L	307.008
207	Pb	-0.009686	8.302	79.334	ug/L	147.669
206	Pb	-0.007246	7.416	111.001	ug/L	180.003
169	Tm			753116.894	ug/L	781344.325
84	Kr			4915.136	ug/L	5091.302

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	92.269
Be	9	
Al	27	
P	31	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	95.056
Cd	111	
Sb	121	
Ba	135	
In-1	115	94.391
Pb	208	
Tm-1	169	96.387
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	95.056
Cd	108	
Cd	114	
In	115	94.391
207.977	208	
Pb	207	
Pb	206	
Tm	169	96.387
Kr	84	

Sample ID: CCV 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 17:47:43
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 9.062
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			992369.980	ug/L	1146801.151
>	6	Li-1			672700.963	ug/L	746993.768
	9	Be	101.248665	0.355	42055.218	ug/L	6.333
	27	Al	4645.109690	1.252	23257438.145	ug/L	6283.287
	31	P	4599.112627	1.197	1482207.005	ug/L	17590.859
	44	Ca	4669.825411	1.842	1440178.708	ug/L	32099.092
	52	Cr	96.470617	0.698	948091.258	ug/L	27311.174
	55	Mn	96.268956	1.382	1493302.911	ug/L	1661.885
	59	Co	97.974023	1.508	1152447.693	ug/L	193.670
	60	Ni	97.660789	2.222	245682.706	ug/L	97.233
	65	Cu	99.490961	1.292	270926.713	ug/L	317.873
	68	Zn	98.016607	0.660	100227.194	ug/L	779.878
	75	As	97.824236	0.289	265198.441	ug/L	14954.976
	82	Se	97.102348	1.411	26266.666	ug/L	1503.916
>	72	Ge-1			1060016.832	ug/L	1143116.911
	111	Cd	97.492533	1.256	237975.639	ug/L	36.167
	121	Sb	49.646371	1.211	398616.522	ug/L	4196.821
	135	Ba	100.506526	0.526	210189.773	ug/L	85.334
>	115	In-1			1000034.111	ug/L	1084217.752
	208	Pb	99.358981	1.581	2975709.015	ug/L	634.680
>	169	Tm-1			730986.841	ug/L	781344.325
	50	Cr	101.068316	0.789	22008.187	ug/L	-241.099
	53	Cr	92.983671	2.118	67731.196	ug/L	32578.966
	61	Ni	94.288405	3.177	5277.120	ug/L	1347.733
	63	Cu	98.394395	2.532	198439.735	ug/L	98.002
	67	Zn	98.321365	3.668	11345.599	ug/L	2756.004
	66	Zn	97.824296	1.752	52269.567	ug/L	106.336
	76	Se	70.375230	22.419	-144095.139	ug/L	-159014.926
	77	Se	94.839540	1.119	26266.235	ug/L	8643.774
	78	Se	95.913223	1.394	74717.367	ug/L	15027.160
	79	Br	-1616.990560	43.450	47927.449	ug/L	54811.451
>	72	Ge			1060016.832	ug/L	1143116.911
	108	Cd	97.219630	1.259	16555.234	ug/L	7.890
	114	Cd	99.018127	1.959	565493.702	ug/L	82.413
>	115	In			1000034.111	ug/L	1084217.752

	208 207.977	99.214578	1.657	1513590.926	ug/L	307.008
	207 Pb	99.062363	1.858	625727.559	ug/L	147.669
	206 Pb	99.845644	1.319	836390.529	ug/L	180.003
>	169 Tm			730986.841	ug/L	781344.325
	84 Kr			4620.762	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	90.054
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	92.730
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.236
	Pb	208	
>	Tm-1	169	93.555
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	92.730
	Cd	108	
	Cd	114	
>	In	115	92.236
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.555
	Kr	84	

Sample ID: CCB 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 17:51:58
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 9.063
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1034238.569	ug/L	1146801.151
⌈>	6	Li-1			691719.077	ug/L	746993.768
⌊	9	Be	-0.002799	128.739	4.667	ug/L	6.333
⌈	27	Al	-0.351578	24.160	4127.348	ug/L	6283.287
|	31	P	-6.093801	29.916	14583.043	ug/L	17590.859
|	44	Ca	-1.409720	157.941	29776.201	ug/L	32099.092
|	52	Cr	0.007943	809.693	25774.767	ug/L	27311.174
|	55	Mn	-0.008750	43.889	1425.826	ug/L	1661.885
|	59	Co	-0.006754	35.792	101.668	ug/L	193.670
|	60	Ni	-0.007186	70.763	73.130	ug/L	97.233
|	65	Cu	-0.003153	449.672	290.360	ug/L	317.873
|	68	Zn	0.058810	64.127	794.392	ug/L	779.878
|	75	As	-0.178005	74.477	13606.929	ug/L	14954.976
|	82	Se	-0.058688	111.858	1400.064	ug/L	1503.916
⌊>	72	Ge-1			1075778.544	ug/L	1143116.911
⌈	111	Cd	-0.006122	55.728	18.696	ug/L	36.167
|	121	Sb	-0.171306	30.046	2554.189	ug/L	4196.821
|	135	Ba	-0.004919	90.850	69.667	ug/L	85.334
⌊>	115	In-1			1017146.235	ug/L	1084217.752
⌈	208	Pb	-0.007144	31.440	394.338	ug/L	634.680
⌊>	169	Tm-1			758583.096	ug/L	781344.325
⌈	50	Cr	-0.091822	95.520	-247.216	ug/L	-241.099
|	53	Cr	0.594879	465.551	30901.173	ug/L	32578.966
|	61	Ni	-1.036895	180.362	1222.996	ug/L	1347.733
|	63	Cu	-0.012976	13.737	65.668	ug/L	98.002
|	67	Zn	2.384088	63.012	2809.738	ug/L	2756.004
|	66	Zn	0.010385	85.124	105.669	ug/L	106.336
|	76	Se	0.490712	3523.299	-149631.381	ug/L	-159014.926
|	77	Se	0.719123	49.042	8274.765	ug/L	8643.774
|	78	Se	-0.524522	48.051	13803.180	ug/L	15027.160
|	79	Br	-889.241602	74.400	49952.890	ug/L	54811.451
⌊>	72	Ge			1075778.544	ug/L	1143116.911
⌈	108	Cd	-0.013623	226.675	5.075	ug/L	7.890
|	114	Cd	-0.005740	49.233	44.037	ug/L	82.413
⌊>	115	In			1017146.235	ug/L	1084217.752

	208 207.977	-0.005906	36.072	204.670	ug/L	307.008
	207 Pb	-0.009207	34.851	83.001	ug/L	147.669
	206 Pb	-0.007844	28.293	106.668	ug/L	180.003
>	169 Tm			758583.096	ug/L	781344.325
	84 Kr			4954.099	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.600
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	94.109
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.814
	Pb	208	
>	Tm-1	169	97.087
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.109
	Cd	108	
	Cd	114	
>	In	115	93.814
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.087
	Kr	84	

Sample ID: L5LCF
Sample Description: G0H140454-9
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:13:06
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCF.068
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 57
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1047055.851	ug/L	1146801.151
>	6	Li-1			691764.066	ug/L	746993.768
	9	Be	0.040237	50.977	23.000	ug/L	6.333
	27	Al	936.146552	0.736	4863338.469	ug/L	6283.287
	31	P	295.662613	1.569	114610.087	ug/L	17590.859
	44	Ca	5670.954750	0.694	1806725.457	ug/L	32099.092
	52	Cr	3.622047	1.620	62170.612	ug/L	27311.174
	55	Mn	429.738899	0.776	6905327.810	ug/L	1661.885
	59	Co	2.657805	1.214	32598.309	ug/L	193.670
	60	Ni	2.785825	0.748	7357.215	ug/L	97.233
	65	Cu	54.939688	0.763	155237.415	ug/L	317.873
	68	Zn	35.737347	0.650	38361.001	ug/L	779.878
	75	As	0.414428	45.126	15477.082	ug/L	14954.976
	82	Se	0.193443	108.688	1496.730	ug/L	1503.916
>	72	Ge-1			1098882.013	ug/L	1143116.911
	111	Cd	0.484787	6.021	1286.702	ug/L	36.167
	121	Sb	0.067603	6.140	4663.375	ug/L	4196.821
	135	Ba	37.083232	1.254	82082.009	ug/L	85.334
>	115	In-1			1057831.727	ug/L	1084217.752
	208	Pb	4.872782	0.237	153026.362	ug/L	634.680
>	169	Tm-1			763400.022	ug/L	781344.325
	50	Cr	14.635484	7.001	3103.748	ug/L	-241.099
	53	Cr	-39.833323	4.890	14663.959	ug/L	32578.966
	61	Ni	8.723503	21.321	1682.290	ug/L	1347.733
	63	Cu	54.743981	0.817	114526.605	ug/L	98.002
	67	Zn	18.092511	9.109	4327.121	ug/L	2756.004
	66	Zn	35.293897	0.983	19617.641	ug/L	106.336
	76	Se	-2.711524	552.490	-153000.683	ug/L	-159014.926
	77	Se	-25.169458	3.248	3289.597	ug/L	8643.774
	78	Se	-0.175641	111.197	14329.509	ug/L	15027.160
	79	Br	-14312.012365	4.310	26040.316	ug/L	54811.451
>	72	Ge			1098882.013	ug/L	1143116.911
	108	Cd	2.780162	11.574	508.337	ug/L	7.890
	114	Cd	0.329077	4.556	2068.163	ug/L	82.413
>	115	In			1057831.727	ug/L	1084217.752

208	207.977	5.041599	0.400	80627.611	ug/L	307.008
207	Pb	4.960177	1.326	32861.971	ug/L	147.669
206	Pb	4.499417	0.356	39536.780	ug/L	180.003
169	Tm			763400.022	ug/L	781344.325
84	Kr			4775.072	ug/L	5091.302

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	92.606
Be	9	
Al	27	
P	31	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	96.130
Cd	111	
Sb	121	
Ba	135	
In-1	115	97.566
Pb	208	
Tm-1	169	97.703
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	96.130
Cd	108	
Cd	114	
In	115	97.566
207.977	208	
Pb	207	
Pb	206	
Tm	169	97.703
Kr	84	

Sample ID: L5LCFP5
Sample Description: G0H140454-9 5X
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:17:21
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCFP5.069
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 58
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1040877.134	ug/L	1146801.151
[>	6	Li-1			674113.768	ug/L	746993.768
[	9	Be	0.006318	98.055	8.333	ug/L	6.333
[	27	Al	185.661344	3.158	981565.754	ug/L	6283.287
|	31	P	54.640922	4.314	35407.931	ug/L	17590.859
|	44	Ca	1134.806416	1.779	391104.792	ug/L	32099.092
|	52	Cr	1.175538	7.101	38391.503	ug/L	27311.174
|	55	Mn	84.811288	1.588	1381345.634	ug/L	1661.885
|	59	Co	0.508256	0.747	6464.615	ug/L	193.670
|	60	Ni	0.539987	5.812	1520.841	ug/L	97.233
|	65	Cu	10.720601	1.434	30928.458	ug/L	317.873
|	68	Zn	7.177751	0.905	8409.429	ug/L	779.878
|	75	As	-0.168332	23.903	14104.226	ug/L	14954.976
|	82	Se	0.202943	44.837	1518.507	ug/L	1503.916
[>	72	Ge-1			1112812.235	ug/L	1143116.911
[	111	Cd	0.088954	16.711	259.294	ug/L	36.167
|	121	Sb	-0.338270	0.690	1222.784	ug/L	4196.821
|	135	Ba	7.276716	1.063	15829.331	ug/L	85.334
[>	115	In-1			1035295.628	ug/L	1084217.752
[	208	Pb	0.952705	1.646	30097.031	ug/L	634.680
[>	169	Tm-1			755413.057	ug/L	781344.325
[	50	Cr	2.361630	29.670	309.952	ug/L	-241.099
|	53	Cr	7.656690	25.066	34961.681	ug/L	32578.966
|	61	Ni	1.962576	21.980	1400.098	ug/L	1347.733
|	63	Cu	10.700416	1.223	22746.287	ug/L	98.002
|	67	Zn	4.980958	41.106	3151.190	ug/L	2756.004
|	66	Zn	6.916616	0.849	3976.810	ug/L	106.336
|	76	Se	-36.759847	76.411	-156648.747	ug/L	-159014.926
|	77	Se	10.363674	2.079	10508.070	ug/L	8643.774
|	78	Se	-0.371995	124.405	14380.683	ug/L	15027.160
|	79	Br	-3253.469146	2.836	47222.002	ug/L	54811.451
[>	72	Ge			1112812.235	ug/L	1143116.911
[	108	Cd	0.481091	16.441	92.290	ug/L	7.890
|	114	Cd	0.059200	2.626	428.686	ug/L	82.413
[>	115	In			1035295.628	ug/L	1084217.752

208 207.977	0.983875	2.428	15806.276	ug/L	307.008
207 Pb	0.970652	1.139	6478.630	ug/L	147.669
206 Pb	0.882402	0.829	7812.126	ug/L	180.003
> 169 Tm			755413.057	ug/L	781344.325
84 Kr			5038.662	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	90.244
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	97.349
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.488
	Pb	208	
>	Tm-1	169	96.681
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.349
	Cd	108	
	Cd	114	
>	In	115	95.488
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.681
	Kr	84	

Sample ID: L5LCFZ
Sample Description: G0H140454-9 PS
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:21:36
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCFZ.070
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 59
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			984807.932	ug/L	1146801.151
>	6	Li-1			686548.389	ug/L	746993.768
	9	Be	193.743325	2.374	82114.253	ug/L	6.333
	27	Al	1864.859799	1.515	9027036.676	ug/L	6283.287
	31	P	1227.971721	0.581	394095.835	ug/L	17590.859
	44	Ca	6619.000839	1.359	1961355.462	ug/L	32099.092
	52	Cr	197.608737	2.457	1851361.709	ug/L	27311.174
	55	Mn	616.857833	1.728	9241656.444	ug/L	1661.885
	59	Co	198.294886	2.627	2254620.070	ug/L	193.670
	60	Ni	202.367304	2.146	492027.754	ug/L	97.233
	65	Cu	249.905367	1.980	657353.349	ug/L	317.873
	68	Zn	228.478094	0.447	224893.480	ug/L	779.878
	75	As	194.580909	1.005	496577.920	ug/L	14954.976
	82	Se	191.432329	1.335	48741.367	ug/L	1503.916
>	72	Ge-1			1024552.258	ug/L	1143116.911
	111	Cd	190.317423	0.524	467972.629	ug/L	36.167
	121	Sb	189.362837	0.516	1520752.338	ug/L	4196.821
	135	Ba	238.464002	0.696	502224.098	ug/L	85.334
>	115	In-1			1007371.734	ug/L	1084217.752
	208	Pb	203.911909	0.480	6217605.617	ug/L	634.680
>	169	Tm-1			744176.761	ug/L	781344.325
	50	Cr	191.577023	0.387	40512.542	ug/L	-241.099
	53	Cr	160.247611	3.791	91698.258	ug/L	32578.966
	61	Ni	199.196879	1.247	9434.546	ug/L	1347.733
	63	Cu	248.237830	2.205	483825.411	ug/L	98.002
	67	Zn	214.334296	0.948	20991.508	ug/L	2756.004
	66	Zn	226.192889	0.560	116708.739	ug/L	106.336
	76	Se	232.496234	31.522	-131792.195	ug/L	-159014.926
	77	Se	164.339584	3.906	38316.320	ug/L	8643.774
	78	Se	186.549926	2.229	127747.149	ug/L	15027.160
	79	Br	-13413.641566	5.770	25835.070	ug/L	54811.451
>	72	Ge			1024552.258	ug/L	1143116.911
	108	Cd	186.704077	1.515	32023.108	ug/L	7.890
	114	Cd	190.312534	0.458	1094907.011	ug/L	82.413
>	115	In			1007371.734	ug/L	1084217.752

	208 207.977	210.189018	0.326	3264803.375	ug/L	307.008
	207 Pb	218.362796	0.767	1404197.000	ug/L	147.669
	206 Pb	181.582786	0.699	1548605.241	ug/L	180.003
>	169 Tm			744176.761	ug/L	781344.325
	84 Kr			4084.166	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	91.908
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	89.628
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.912
	Pb	208	
>	Tm-1	169	95.243
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	89.628
	Cd	108	
	Cd	114	
>	In	115	92.912
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.243
	Kr	84	

Sample ID: L5LCG
Sample Description: G0H140454-10
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:25:52
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCG.071
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 60
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1039383.613	ug/L	1146801.151
>	6	Li-1			692478.108	ug/L	746993.768
	9	Be	0.008893	56.148	9.667	ug/L	6.333
	27	Al	220.633004	0.923	1120561.238	ug/L	6283.287
	31	P	259.662626	2.052	100012.200	ug/L	17590.859
	44	Ca	1227.523101	1.119	404334.905	ug/L	32099.092
	52	Cr	2.685914	3.264	51497.905	ug/L	27311.174
	55	Mn	69.486481	0.342	1088614.361	ug/L	1661.885
	59	Co	0.867068	1.673	10476.618	ug/L	193.670
	60	Ni	1.281230	2.650	3343.904	ug/L	97.233
	65	Cu	45.657320	0.062	125680.068	ug/L	317.873
	68	Zn	28.320029	0.496	29754.023	ug/L	779.878
	75	As	0.117830	78.525	14304.839	ug/L	14954.976
	82	Se	0.218683	54.418	1464.332	ug/L	1503.916
>	72	Ge-1			1070042.463	ug/L	1143116.911
	111	Cd	0.326725	7.814	862.149	ug/L	36.167
	121	Sb	-0.153152	8.798	2752.596	ug/L	4196.821
	135	Ba	17.069890	0.447	37088.773	ug/L	85.334
>	115	In-1			1037158.671	ug/L	1084217.752
	208	Pb	4.084841	1.133	128978.228	ug/L	634.680
>	169	Tm-1			766975.422	ug/L	781344.325
	50	Cr	6.174063	7.316	1145.044	ug/L	-241.099
	53	Cr	-44.326904	3.531	12444.374	ug/L	32578.966
	61	Ni	2.911556	71.621	1387.425	ug/L	1347.733
	63	Cu	45.148611	1.424	91989.120	ug/L	98.002
	67	Zn	11.233124	12.720	3593.842	ug/L	2756.004
	66	Zn	27.885342	0.579	15114.764	ug/L	106.336
	76	Se	0.388375	8592.425	-148834.122	ug/L	-159014.926
	77	Se	-28.352333	1.362	2583.701	ug/L	8643.774
	78	Se	-0.749029	46.830	13586.774	ug/L	15027.160
	79	Br	-15730.098555	3.293	22777.533	ug/L	54811.451
>	72	Ge			1070042.463	ug/L	1143116.911
	108	Cd	0.973007	10.949	179.160	ug/L	7.890
	114	Cd	0.290295	3.021	1798.059	ug/L	82.413
>	115	In			1037158.671	ug/L	1084217.752

208	207.977	4.212031	1.203	67721.443	ug/L	307.008
207	Pb	4.152088	1.758	27659.651	ug/L	147.669
206	Pb	3.802481	1.140	33597.134	ug/L	180.003
169	Tm			766975.422	ug/L	781344.325
84	Kr			4883.638	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std	% Recovery
	Sc	45		
>	Li-1	6		92.702
	Be	9		
	Al	27		
	P	31		
	Ca	44		
	Cr	52		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	65		
	Zn	68		
	As	75		
	Se	82		
>	Ge-1	72		93.607
	Cd	111		
	Sb	121		
	Ba	135		
>	In-1	115		95.660
	Pb	208		
>	Tm-1	169		98.161
	Cr	50		
	Cr	53		
	Ni	61		
	Cu	63		
	Zn	67		
	Zn	66		
	Se	76		
	Se	77		
	Se	78		
	Br	79		
>	Ge	72		93.607
	Cd	108		
	Cd	114		
>	In	115		95.660
	207.977	208		
	Pb	207		
	Pb	206		
>	Tm	169		98.161
	Kr	84		

Sample ID: L5LCK
Sample Description: G0H140454-11
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:30:07
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCK.072
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 61
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1044767.393	ug/L	1146801.151
>	6	Li-1			694364.648	ug/L	746993.768
	9	Be	0.008796	37.973	9.667	ug/L	6.333
	27	Al	264.805212	1.343	1352456.882	ug/L	6283.287
	31	P	256.088661	3.562	99509.228	ug/L	17590.859
	44	Ca	1284.300531	1.316	424366.235	ug/L	32099.092
	52	Cr	2.669696	3.183	51678.078	ug/L	27311.174
	55	Mn	314.749603	1.837	4956708.680	ug/L	1661.885
	59	Co	0.913792	1.117	11103.347	ug/L	193.670
	60	Ni	1.672026	0.792	4364.123	ug/L	97.233
	65	Cu	22.814649	0.617	63359.664	ug/L	317.873
	68	Zn	13.170060	1.026	14319.794	ug/L	779.878
	75	As	0.082506	145.784	14302.521	ug/L	14954.976
	82	Se	0.125551	23.514	1449.521	ug/L	1503.916
>	72	Ge-1			1076953.731	ug/L	1143116.911
	111	Cd	0.128602	5.992	358.741	ug/L	36.167
	121	Sb	-0.030850	7.091	3746.769	ug/L	4196.821
	135	Ba	19.623852	0.566	42476.306	ug/L	85.334
>	115	In-1			1033476.217	ug/L	1084217.752
	208	Pb	1.971165	1.655	62556.563	ug/L	634.680
>	169	Tm-1			766959.649	ug/L	781344.325
	50	Cr	6.757379	0.962	1282.779	ug/L	-241.099
	53	Cr	-42.793904	4.089	13156.068	ug/L	32578.966
	61	Ni	4.352794	55.059	1459.471	ug/L	1347.733
	63	Cu	23.202414	1.438	47626.364	ug/L	98.002
	67	Zn	-2.945087	66.800	2329.866	ug/L	2756.004
	66	Zn	13.389399	1.411	7356.892	ug/L	106.336
	76	Se	-30.989439	22.296	-151312.665	ug/L	-159014.926
	77	Se	-26.773433	2.989	2910.134	ug/L	8643.774
	78	Se	-0.681171	46.964	13717.225	ug/L	15027.160
	79	Br	-15123.802841	4.682	24037.485	ug/L	54811.451
>	72	Ge			1076953.731	ug/L	1143116.911
	108	Cd	1.000067	6.761	183.519	ug/L	7.890
	114	Cd	0.093681	3.489	631.418	ug/L	82.413
>	115	In			1033476.217	ug/L	1084217.752

208	207.977	2.043344	2.567	33003.707	ug/L	307.008
207	Pb	2.017472	0.786	13514.669	ug/L	147.669
206	Pb	1.804787	0.912	16038.186	ug/L	180.003
169	Tm			766959.649	ug/L	781344.325
84	Kr			4984.246	ug/L	5091.302

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	92.955
Be	9	
Al	27	
P	31	
Ca	44	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	94.212
Cd	111	
Sb	121	
Ba	135	
In-1	115	95.320
Pb	208	
Tm-1	169	98.159
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	94.212
Cd	108	
Cd	114	
In	115	95.320
207.977	208	
Pb	207	
Pb	206	
Tm	169	98.159
Kr	84	

Sample ID: L5LCN
Sample Description: G0H140454-12
Batch ID: 229240
Sample Date/Time: Wednesday, August 18, 2010 18:34:24
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\L5LCN.073
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 62
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1053269.069	ug/L	1146801.151
>	6	Li-1			700631.459	ug/L	746993.768
	9	Be	0.011752	42.485	11.000	ug/L	6.333
	27	Al	513.267778	3.050	2613784.882	ug/L	6283.287
	31	P	285.881833	2.127	109060.884	ug/L	17590.859
	44	Ca	2108.082417	1.394	676631.321	ug/L	32099.092
	52	Cr	3.010232	3.130	54937.532	ug/L	27311.174
	55	Mn	65.139733	2.607	1026350.552	ug/L	1661.885
	59	Co	1.671752	0.805	20143.165	ug/L	193.670
	60	Ni	1.381362	1.748	3618.120	ug/L	97.233
	65	Cu	15.762018	0.796	43826.434	ug/L	317.873
	68	Zn	12.056499	1.842	13159.607	ug/L	779.878
	75	As	0.147163	102.627	14460.301	ug/L	14954.976
	82	Se	0.065186	241.746	1432.453	ug/L	1503.916
>	72	Ge-1			1076005.441	ug/L	1143116.911
	111	Cd	0.140471	7.010	393.482	ug/L	36.167
	121	Sb	-0.151004	7.279	2792.614	ug/L	4196.821
	135	Ba	28.905756	0.996	63247.450	ug/L	85.334
>	115	In-1			1045458.445	ug/L	1084217.752
	208	Pb	2.647072	0.544	83946.440	ug/L	634.680
>	169	Tm-1			768279.434	ug/L	781344.325
	50	Cr	9.709996	7.212	1941.462	ug/L	-241.099
	53	Cr	-41.118176	7.271	13830.867	ug/L	32578.966
	61	Ni	3.452348	29.595	1418.443	ug/L	1347.733
	63	Cu	15.805007	0.869	32439.200	ug/L	98.002
	67	Zn	-1.900718	136.265	2422.299	ug/L	2756.004
	66	Zn	12.796017	2.242	7028.857	ug/L	106.336
	76	Se	-16.621303	215.581	-150482.566	ug/L	-159014.926
	77	Se	-25.559839	2.186	3144.211	ug/L	8643.774
	78	Se	-0.467906	48.344	13844.156	ug/L	15027.160
	79	Br	-14766.162695	3.308	24664.450	ug/L	54811.451
>	72	Ge			1076005.441	ug/L	1143116.911
	108	Cd	1.202347	5.443	221.429	ug/L	7.890
	114	Cd	0.061300	8.870	445.046	ug/L	82.413
>	115	In			1045458.445	ug/L	1084217.752

	208 207.977	2.719475	0.672	43907.624	ug/L	307.008
	207 Pb	2.698792	0.745	18061.597	ug/L	147.669
	206 Pb	2.476206	1.026	21977.219	ug/L	180.003
>	169 Tm			768279.434	ug/L	781344.325
	84 Kr			4726.792	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.793
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	94.129
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.425
	Pb	208	
>	Tm-1	169	98.328
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.129
	Cd	108	
	Cd	114	
>	In	115	96.425
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.328
	Kr	84	

Sample ID: CCV 10
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 18:38:39
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCV 10.074
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1014811.904	ug/L	1146801.151
>	6	Li-1			690314.846	ug/L	746993.768
	9	Be	100.209555	0.548	42713.568	ug/L	6.333
	27	Al	4805.239857	0.615	24502099.907	ug/L	6283.287
	31	P	4783.066293	1.721	1569471.984	ug/L	17590.859
	44	Ca	4710.721525	1.081	1479610.988	ug/L	32099.092
	52	Cr	98.086600	2.062	981298.596	ug/L	27311.174
	55	Mn	97.523882	1.065	1540938.420	ug/L	1661.885
	59	Co	98.223194	2.266	1176807.927	ug/L	193.670
	60	Ni	97.949354	1.053	250996.718	ug/L	97.233
	65	Cu	99.627658	1.376	276376.099	ug/L	317.873
	68	Zn	98.340471	0.882	102424.449	ug/L	779.878
	75	As	97.629313	0.440	269597.439	ug/L	14954.976
	82	Se	98.071580	2.086	27002.530	ug/L	1503.916
>	72	Ge-1			1079624.150	ug/L	1143116.911
	111	Cd	97.872248	1.480	240673.611	ug/L	36.167
	121	Sb	49.570981	0.810	400957.654	ug/L	4196.821
	135	Ba	100.037886	0.480	210745.006	ug/L	85.334
>	115	In-1			1007387.323	ug/L	1084217.752
	208	Pb	100.060900	0.632	3067072.768	ug/L	634.680
>	169	Tm-1			747983.175	ug/L	781344.325
	50	Cr	96.735940	1.298	21445.644	ug/L	-241.099
	53	Cr	97.949892	6.998	71031.279	ug/L	32578.966
	61	Ni	97.937126	5.734	5533.736	ug/L	1347.733
	63	Cu	98.484286	2.599	202331.738	ug/L	98.002
	67	Zn	100.434081	2.372	11750.319	ug/L	2756.004
	66	Zn	98.628892	0.690	53682.372	ug/L	106.336
	76	Se	97.116186	14.520	-145462.217	ug/L	-159014.926
	77	Se	99.376296	0.758	27639.963	ug/L	8643.774
	78	Se	96.596699	1.780	76535.426	ug/L	15027.160
	79	Br	-1863.279477	33.772	48359.703	ug/L	54811.451
>	72	Ge			1079624.150	ug/L	1143116.911
	108	Cd	97.343891	0.818	16698.698	ug/L	7.890
	114	Cd	99.096844	0.262	570146.281	ug/L	82.413
>	115	In			1007387.323	ug/L	1084217.752

208	207.977	99.957573	0.123	1560739.563	ug/L	307.008
207	Pb	100.814635	0.883	651736.928	ug/L	147.669
206	Pb	99.680739	1.509	854596.276	ug/L	180.003
169	Tm			747983.175	ug/L	781344.325
84	Kr			4494.464	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.412
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	94.446
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.914
	Pb	208	
>	Tm-1	169	95.730
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.446
	Cd	108	
	Cd	114	
>	In	115	92.914
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.730
	Kr	84	

Sample ID: CCB 10
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, August 18, 2010 18:42:54
Method File: C:\elandata\Method\0229240B.mth
Dataset File: C:\elandata\Dataset\100818A2\CCB 10.075
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1031563.564	ug/L	1146801.151
>	6	Li-1			681269.979	ug/L	746993.768
	9	Be	0.001364	284.207	6.333	ug/L	6.333
	27	Al	-0.384025	23.594	3955.574	ug/L	6283.287
	31	P	-3.255799	98.191	15472.848	ug/L	17590.859
	44	Ca	-2.216121	55.020	29471.767	ug/L	32099.092
	52	Cr	0.134960	65.519	26961.038	ug/L	27311.174
	55	Mn	-0.005176	72.406	1479.839	ug/L	1661.885
	59	Co	-0.007046	23.435	98.001	ug/L	193.670
	60	Ni	-0.009669	30.408	66.701	ug/L	97.233
	65	Cu	-0.015571	31.305	255.694	ug/L	317.873
	68	Zn	0.045963	199.785	779.909	ug/L	779.878
	75	As	-0.229466	98.844	13450.599	ug/L	14954.976
	82	Se	0.336006	19.040	1499.761	ug/L	1503.916
>	72	Ge-1			1073670.027	ug/L	1143116.911
	111	Cd	-0.004937	17.473	21.686	ug/L	36.167
	121	Sb	-0.197406	32.941	2349.784	ug/L	4196.821
	135	Ba	-0.004978	75.761	69.667	ug/L	85.334
>	115	In-1			1018677.320	ug/L	1084217.752
	208	Pb	-0.008573	29.950	352.004	ug/L	634.680
>	169	Tm-1			762792.646	ug/L	781344.325
	50	Cr	-0.134711	7.544	-256.464	ug/L	-241.099
	53	Cr	3.642211	56.718	32090.437	ug/L	32578.966
	61	Ni	2.219137	75.867	1362.076	ug/L	1347.733
	63	Cu	-0.011927	46.579	67.668	ug/L	98.002
	67	Zn	2.694699	54.507	2832.767	ug/L	2756.004
	66	Zn	-0.023231	101.360	87.335	ug/L	106.336
	76	Se	-9.429315	166.771	-149811.063	ug/L	-159014.926
	77	Se	1.610192	50.434	8432.243	ug/L	8643.774
	78	Se	-0.871275	2.936	13554.896	ug/L	15027.160
	79	Br	-925.788104	32.040	49797.701	ug/L	54811.451
>	72	Ge			1073670.027	ug/L	1143116.911
	108	Cd	-0.030099	15.360	2.199	ug/L	7.890
	114	Cd	-0.006046	52.532	42.470	ug/L	82.413
>	115	In			1018677.320	ug/L	1084217.752

208	207.977	-0.007263	47.371	184.336	ug/L	307.008
207	Pb	-0.010808	19.793	73.000	ug/L	147.669
206	Pb	-0.009274	23.178	94.667	ug/L	180.003
> 169	Tm			762792.646	ug/L	781344.325
84	Kr			4869.873	ug/L	5091.302

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	91.202
	Be	9	
	Al	27	
	P	31	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	93.925
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.955
	Pb	208	
>	Tm-1	169	97.626
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.925
	Cd	108	
	Cd	114	
>	In	115	93.955
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.626
	Kr	84	

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 10:19:40

File ID: 100818A1 **Analyst:** jonesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 3X				3.0	08/18/10 13:43		☐
2	Blank				1.0	08/18/10 13:48		☐
3	Standard1				1.0	08/18/10 13:53		☐
4	ICV				1.0	08/18/10 13:57		☐
5	ICB				1.0	08/18/10 14:01		☐
6	LLSTD1				1.0	08/18/10 14:06		☐
7	LLSTD2				1.0	08/18/10 14:10		☐
8	ICSA				1.0	08/18/10 14:15		☐
9	ICSAB				1.0	08/18/10 14:19		☐
10	Rinse				1.0	08/18/10 14:27		☐
11	CCV 1				1.0	08/18/10 14:35		☐
12	CCB 1				1.0	08/18/10 14:40		☐
15	CCV 2				1.0	08/18/10 14:44		☐
16	CCB 2				1.0	08/18/10 14:49		☐
17	L5NLLB	G0H170000	0229243	2A	1.0	08/18/10 14:53		☐
18	L5NLJC	G0H170000	0229240	2A	1.0	08/18/10 14:58		☐
19	L5NLJL	G0H170000	0229240	2A	1.0	08/18/10 15:02		☐
20	L5ECR	G0H110409-3	0229243	2A	1.0	08/18/10 15:07		☐
21	L5ECRP5	G0H110409	0229243		5.0	08/18/10 15:11		☐
22	L5ECRZ	G0H110409-3	0229243		1.0	08/18/10 15:15		☐
23	L5EC0	G0H110409-4	0229243	2A	1.0	08/18/10 15:20		☐
24	CCV 3				1.0	08/18/10 15:24		☐
25	CCB 3				1.0	08/18/10 15:29		☐
26	CCV 4				1.0	08/18/10 15:41		☐
27	CCB 4				1.0	08/18/10 15:45		☐
30	CCV 5				1.0	08/18/10 15:49		☐
31	CCB 5				1.0	08/18/10 15:53		☐
32	L5EE5B	G0H110000	0223142	2A	1.0	08/18/10 15:58		☐
33	L5EE5C	G0H110000	0223142	2A	1.0	08/18/10 16:02		☐
34	L5EE5L	G0H110000	0223142	2A	1.0	08/18/10 16:06		☐
35	L48EX	G0H060537-1	0223142	2A	1.0	08/18/10 16:10		☐
36	L48EXP5	G0H060537	0223142		5.0	08/18/10 16:14		☐
37	L48EXZ	G0H060537-1	0223142		1.0	08/18/10 16:19		☐
38	L48FA	G0H060537-2	0223142	2A	1.0	08/18/10 16:23		☐
39	L48FE	G0H060537-3	0223142	2A	1.0	08/18/10 16:27		☐
40	L48FK	G0H060537-4	0223142	2A	1.0	08/18/10 16:31		☐
41	L48FX	G0H060537-5	0223142	2A	1.0	08/18/10 16:36		☐
42	CCV 6				1.0	08/18/10 16:40		☐
43	CCB 6				1.0	08/18/10 16:44		☐
44	CCV 7				1.0	08/18/10 16:48		☐
45	CCB 7				1.0	08/18/10 16:53		☐
46	L5QL3B	G0H180000	0230206	2A	1.0	08/18/10 16:57		☐
47	L5QL3C	G0H180000	0230206	2A	1.0	08/18/10 17:01		☐
48	L5QL3L	G0H180000	0230206	2A	1.0	08/18/10 17:05		☐
49	L5NE7	G0H170431-1	0230206	2A	1.0	08/18/10 17:09		☐
50	L5NE7P5	G0H170431	0230206		5.0	08/18/10 17:14		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 10:19:40

File ID: 100818A1 Analyst: ionesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
51	L5NE7X	G0H170431-1	0230206	2A	1.0	08/18/10 17:18		☐
52	L5NE7Z	G0H170431-1	0230206		1.0	08/18/10 17:22		☐
53	L5NFN	G0H170431-2	0230206	2A	1.0	08/18/10 17:26		☐
54	L5NFP	G0H170431-3	0230206	2A	1.0	08/18/10 17:30		☐
55	L5NFR	G0H170431-4	0230206	2A	1.0	08/18/10 17:35		☐
56	CCV 8				1.0	08/18/10 17:39		☐
57	CCB 8				1.0	08/18/10 17:43		☐
58	CCV 9				1.0	08/18/10 17:47		☐
59	CCB 9				1.0	08/18/10 17:51		☐
60	L5NFV	G0H170431-5	0230206	2A	1.0	08/18/10 17:56		☐
61	L5NFW	G0H170431-6	0230206	2A	1.0	08/18/10 18:00		☐
62	L5NF1	G0H170431-7	0230206	2A	1.0	08/18/10 18:04		☐
63	L5NF2	G0H170431-8	0230206	2A	1.0	08/18/10 18:08		☐
64	L5LCF	G0H140454-9	0229240	2A	1.0	08/18/10 18:13		☐
65	L5LCFP5	G0H140454	0229240		5.0	08/18/10 18:17		☐
66	L5LCFZ	G0H140454-9	0229240		1.0	08/18/10 18:21		☐
67	L5LCG	G0H140454-10	0229240	2A	1.0	08/18/10 18:25		☐
68	L5LCK	G0H140454-11	0229240	2A	1.0	08/18/10 18:30		☐
69	L5LCN	G0H140454-12	0229240	2A	1.0	08/18/10 18:34		☐
70	CCV 10				1.0	08/18/10 18:38		☐
71	CCB 10				1.0	08/18/10 18:42		☐
72	CCV 11				1.0	08/18/10 18:47		☐
73	CCB 11				1.0	08/18/10 18:51		☐
74	L5MHQB	G0H160000	0228275	DF	1.0	08/18/10 18:55		☐
75	L5MHQC	G0H160000	0228275	DF	1.0	08/18/10 18:59		☐
76	L5MHQL	G0H160000	0228275	DF	1.0	08/18/10 19:04		☐
77	L5CM3S	G0H100417-2	0228275	DF	1.0	08/18/10 19:08		☐
78	L5CM3D	G0H100417-2	0228275	DF	1.0	08/18/10 19:12		☐
79	L5CM3	G0H100417-2	0228275	DF	1.0	08/18/10 19:16		☐
80	L5CM3P5	G0H100417	0228275		5.0	08/18/10 19:20		☐
81	L5CM8	G0H100417-4	0228275	DF	1.0	08/18/10 19:24		☐
82	L5CND	G0H100417-6	0228275	DF	1.0	08/18/10 19:29		☐
83	L5CNP	G0H100417-8	0228275	DF	1.0	08/18/10 19:33		☐
84	CCV 12				1.0	08/18/10 19:37		☐
85	CCB 12				1.0	08/18/10 19:41		☐
86	CCV 13				1.0	08/18/10 19:46		☐
87	CCB 13				1.0	08/18/10 19:48		☐
90	CCV 14				1.0	08/18/10 19:51		☐
91	CCB 14				1.0	08/18/10 19:54		☐
92	L5NLLB	G0H170000	0229243	2A	1.0	08/18/10 19:56		☐
93	L5NLLC	G0H170000	0229243	2A	1.0	08/18/10 19:59		☐
94	L5NLLL	G0H170000	0229243	2A	1.0	08/18/10 20:01		☐
95	L5ECR	G0H110409-3	0229243	2A	1.0	08/18/10 20:04		☐
96	L5ECRP5	G0H110409	0229243		5.0	08/18/10 20:07		☐
97	L5ECRZ	G0H110409-3	0229243		1.0	08/18/10 20:09		☐
98	L5EC0	G0H110409-4	0229243	2A	1.0	08/18/10 20:12		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 08/19/10 10:19:40

File ID: 100818A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
99	CCV 15				1.0	08/18/10 20:14		☐
100	CCB 15				1.0	08/18/10 20:17		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 08/19/10 10:19:40

File ID: 100818A1 Analyst: jonesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 3X	08/18/10 13:43	99.9	100.5	99.0	99.9	☐
2	Blank	08/18/10 13:48	100.0	100.0	100.0	100.0	☑
3	Standard1	08/18/10 13:53	98.6	98.9	95.4	96.7	☑
4	ICV	08/18/10 13:57	97.5	98.7	96.0	97.8	☑
5	ICB	08/18/10 14:01	97.2	97.9	94.6	96.5	☑
6	LLSTD1	08/18/10 14:06	97.3	98.6	93.9	96.8	☑
7	LLSTD2	08/18/10 14:10	96.9	97.8	92.9	95.9	☑
8	ICSA	08/18/10 14:15	91.9	89.7	79.8	81.0	☑
9	ICSAB	08/18/10 14:19	91.6	91.0	79.1	80.3	☑
10	Rinse	08/18/10 14:27	105.6	104.9	94.2	99.4	☑
11	CCV 1	08/18/10 14:35	104.1	101.5	94.9	96.7	☑
12	CCB 1	08/18/10 14:40	104.0	102.4	95.4	100.0	☑
15	CCV 2	08/18/10 14:44	96.7	95.4	96.7	94.6	☑
16	CCB 2	08/18/10 14:49	96.6	95.6	96.6	97.2	☑
17	L5NLLB	08/18/10 14:53	95.3	95.8	96.8	100.1	☐
18	L5NLJC	08/18/10 14:58	90.7	91.6	94.5	97.7	☐
19	L5NLJL	08/18/10 15:02	88.2	89.5	92.5	94.4	☐
20	L5ECR	08/18/10 15:07	93.4	93.4	93.6	98.8	☑
21	L5ECRP5	08/18/10 15:11	94.5	92.6	91.9	98.1	☐
22	L5ECRZ	08/18/10 15:15	92.0	90.9	93.4	96.7	☑
23	L5EC0	08/18/10 15:20	93.3	92.1	90.7	98.4	☑
24	CCV 3	08/18/10 15:24	90.5	87.3	88.3	93.2	☑
25	CCB 3	08/18/10 15:29	90.5	88.2	87.9	95.4	☑
26	CCV 4	08/18/10 15:41	87.8	84.0	84.0	89.9	☑
27	CCB 4	08/18/10 15:45	89.2	86.1	85.9	93.7	☑
30	CCV 5	08/18/10 15:49	98.6	98.7	98.2	97.0	☑
31	CCB 5	08/18/10 15:53	98.9	99.0	98.6	99.9	☑
32	L5EE5B	08/18/10 15:58	98.8	101.9	101.6	101.1	☑
33	L5EE5C	08/18/10 16:02	96.8	99.2	101.2	100.3	☑
34	L5EE5L	08/18/10 16:06	95.4	98.9	100.8	99.7	☑
35	L48EX	08/18/10 16:10	96.2	98.9	98.5	99.6	☑
36	L48EXP5	08/18/10 16:14	98.6	99.3	98.1	100.2	☐
37	L48EXZ	08/18/10 16:19	95.9	98.0	99.4	100.0	☑
38	L48FA	08/18/10 16:23	97.4	99.1	97.9	101.1	☑
39	L48FE	08/18/10 16:27	97.1	98.9	96.2	100.0	☑
40	L48FK	08/18/10 16:31	96.4	98.6	96.0	100.1	☑
41	L48FX	08/18/10 16:36	96.6	97.3	93.9	98.2	☑
42	CCV 6	08/18/10 16:40	95.4	95.5	94.1	96.9	☑
43	CCB 6	08/18/10 16:44	96.2	95.7	92.6	96.8	☑
44	CCV 7	08/18/10 16:48	95.1	94.2	92.1	95.5	☑
45	CCB 7	08/18/10 16:53	95.5	96.3	94.3	98.4	☑
46	L5QL3B	08/18/10 16:57	94.5	97.3	96.2	99.3	☑
47	L5QL3C	08/18/10 17:01	91.7	94.0	95.5	95.9	☑
48	L5QL3L	08/18/10 17:05	91.1	94.4	95.5	96.3	☑
49	L5NE7	08/18/10 17:09	93.4	94.7	94.1	97.3	☑
50	L5NE7P5	08/18/10 17:14	96.3	96.0	93.8	98.5	☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 08/19/10 10:19:40

File ID: 100818A1 **Analyst:** ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
51	L5NE7X	08/18/10 17:18	96.3	98.9	96.4	100.2	☑
52	L5NE7Z	08/18/10 17:22	91.7	94.8	94.2	96.9	☑
53	L5NFN	08/18/10 17:26	93.7	95.6	93.5	97.0	☑
54	L5NFP	08/18/10 17:30	95.1	96.9	92.9	97.5	☑
55	L5NFR	08/18/10 17:35	95.9	97.4	92.4	97.7	☑
56	CCV 8	08/18/10 17:39	94.1	93.6	93.1	95.4	☑
57	CCB 8	08/18/10 17:43	95.1	94.4	92.3	96.4	☑
58	CCV 9	08/18/10 17:47	92.7	92.2	90.1	93.6	☑
59	CCB 9	08/18/10 17:51	94.1	93.8	92.6	97.1	☑
60	L5NFV	08/18/10 17:56	93.2	94.0	89.0	94.9	☑
61	L5NFW	08/18/10 18:00	94.7	96.4	91.1	97.3	☑
62	L5NF1	08/18/10 18:04	96.3	97.2	92.9	97.0	☑
63	L5NF2	08/18/10 18:08	95.3	97.9	92.7	98.6	☑
64	L5LCF	08/18/10 18:13	96.1	97.6	92.6	97.7	☑
65	L5LCFP5	08/18/10 18:17	97.3	95.5	90.2	96.7	☐
66	L5LCFZ	08/18/10 18:21	89.6	92.9	91.9	95.2	☑
67	L5LCG	08/18/10 18:25	93.6	95.7	92.7	98.2	☑
68	L5LCK	08/18/10 18:30	94.2	95.3	93.0	98.2	☑
69	L5LCN	08/18/10 18:34	94.1	96.4	93.8	98.3	☑
70	CCV 10	08/18/10 18:38	94.4	92.9	92.4	95.7	☑
71	CCB 10	08/18/10 18:42	93.9	94.0	91.2	97.6	☑
72	CCV 11	08/18/10 18:47	91.9	90.9	91.0	95.4	☑
73	CCB 11	08/18/10 18:51	93.0	92.8	91.3	97.4	☑
74	L5MHQB	08/18/10 18:55	95.5	98.7	99.2	104.2	☑
75	L5MHQC	08/18/10 18:59	92.5	97.7	99.6	102.0	☑
76	L5MHQL	08/18/10 19:04	90.7	95.7	98.3	101.0	☑
77	L5CM3S	08/18/10 19:08	87.5	94.4	116.8	98.2	☑
78	L5CM3D	08/18/10 19:12	93.9	103.7	129.3	99.3	☑
79	L5CM3	08/18/10 19:16	92.4	108.0	119.3	99.3	☑
80	L5CM3P5	08/18/10 19:20	93.4	112.1	103.1	100.7	☐
81	L5CM8	08/18/10 19:24	88.3	110.4	109.8	100.7	☑
82	L5CND	08/18/10 19:29	92.7	116.1	121.1	105.1	☑
83	L5CNP	08/18/10 19:33	94.1	118.5	119.9	106.8	☑
84	CCV 12	08/18/10 19:37	89.2	109.1	94.0	99.0	☑
85	CCB 12	08/18/10 19:41	91.8	111.4	95.2	99.9	☑
86	CCV 13	08/18/10 19:46	90.4				☑
87	CCB 13	08/18/10 19:48	93.9				☑
90	CCV 14	08/18/10 19:51	91.7				☑
91	CCB 14	08/18/10 19:54	96.2				☑
92	L5NLLB	08/18/10 19:56	100.8				☐
93	L5NLLC	08/18/10 19:59	94.2				☑
94	L5NLLL	08/18/10 20:01	95.1				☑
95	L5ECR	08/18/10 20:04	96.2				☑
96	L5ECRP5	08/18/10 20:07	96.8				☐
97	L5ECRZ	08/18/10 20:09	94.9				☑
98	L5EC0	08/18/10 20:12	94.8				☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 08/19/10 10:19:40

File ID: 100818A1 **Analyst:** ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
99	CCV 15	08/18/10 20:14	95.5				☑
100	CCB 15	08/18/10 20:17	98.6				☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Method: 6020 **Instrument: M01** **Batch: 100818A1**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	100818A1, 4	08/18/2010 13:57:24	☐
ICB	ICB	100818A1, 5	08/18/2010 14:01:52	☐
ICSA	ICSA	100818A1, 8	08/18/2010 14:15:13	☐
ICSAB	ICSAB	100818A1, 9	08/18/2010 14:19:39	☐
CCV 1	CCV	100818A1, 11	08/18/2010 14:35:56	☐
CCB 1	CCB	100818A1, 12	08/18/2010 14:40:24	☐
CCV 2	CCV	100818A1, 15	08/18/2010 14:44:53	☐
CCB 2	CCB	100818A1, 16	08/18/2010 14:49:21	☐
CCV 3	CCV	100818A1, 24	08/18/2010 15:24:44	☐
CCB 3	CCB	100818A1, 25	08/18/2010 15:29:12	☐
CCV 4	CCV	100818A1, 26	08/18/2010 15:41:11	☐
CCB 4	CCB	100818A1, 27	08/18/2010 15:45:26	☐
CCV 5	CCV	100818A1, 30	08/18/2010 15:49:40	☐
CCB 5	CCB	100818A1, 31	08/18/2010 15:53:55	☐
CCV 6	CCV	100818A1, 42	08/18/2010 16:40:17	☐
CCB 6	CCB	100818A1, 43	08/18/2010 16:44:32	☐
CCV 7	CCV	100818A1, 44	08/18/2010 16:48:47	☐
CCB 7	CCB	100818A1, 45	08/18/2010 16:53:01	☐
CCV 8	CCV	100818A1, 56	08/18/2010 17:39:14	☐
CCB 8	CCB	100818A1, 57	08/18/2010 17:43:28	☐
CCV 9	CCV	100818A1, 58	08/18/2010 17:47:43	☐
CCB 9	CCB	100818A1, 59	08/18/2010 17:51:58	☐
CCV 10	CCV	100818A1, 70	08/18/2010 18:38:39	☐
CCB 10	CCB	100818A1, 71	08/18/2010 18:42:54	☐
CCV 11	CCV	100818A1, 72	08/18/2010 18:47:08	☐
CCB 11	CCB	100818A1, 73	08/18/2010 18:51:23	☐
CCV 12	CCV	100818A1, 84	08/18/2010 19:37:34	☐
CCB 12	CCB	100818A1, 85	08/18/2010 19:41:48	☐
CCV 13	CCV	100818A1, 86	08/18/2010 19:46:03	☐
CCB 13	CCB	100818A1, 87	08/18/2010 19:48:42	☐
CCV 14	CCV	100818A1, 90	08/18/2010 19:51:22	☐
CCB 14	CCB	100818A1, 91	08/18/2010 19:54:02	☐
CCV 15	CCV	100818A1, 99	08/18/2010 20:14:56	☐
CCB 15	CCB	100818A1, 100	08/18/2010 20:17:36	☐

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 4 Method 6020_
Acquired: 08/18/2010 13:57:24 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	44026	80.682	80.000	101	
7429-90-5	Aluminum	27	6291051	832.33	800.00	104	
7723-14-0	Phosphorus	31	390960	787.47	800.00	98.4	
7440-62-2	Vanadium	51	1095543	80.287	80.000	100	
7440-47-3	Chromium	52	1016084	81.728	80.000	102	
7439-89-6	Iron	57	363342	818.30	800.00	102	
7439-96-5	Manganese	55	1711503	81.332	80.000	102	
7440-48-4	Cobalt	59	1247540	80.880	80.000	101	
7440-02-0	Nickel	60	263329	81.395	80.000	102	
7440-50-8	Copper	65	268521	81.122	80.000	101	
7440-66-6	Zinc	68	99238	81.621	80.000	102	
7440-38-2	Arsenic	75	250996	80.790	80.000	101	
7782-49-2	Selenium	78	74562	80.598	80.000	101	
7782-49-2	Selenium	82	26326	80.380	80.000	100	
7440-22-4	Silver	107	511111	40.690	40.000	102	
7440-43-9	Cadmium	111	236005	80.310	80.000	100	
7440-43-9	Cadmium	114	554820	80.263	80.000	100	
7440-36-0	Antimony	121	386151	41.365	40.000	103	
7440-39-3	Barium	135	197222	80.975	80.000	101	
7440-28-0	Thallium	205	1004125	41.106	40.000	103	
7439-92-1	Lead	208	2606697	81.569	80.000	102	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	875485		☑
7440-56-4	Germanium	72	1202573		☑
7440-74-6	Indium	115	1213028		☑
7440-30-4	Thulium	169	815207		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 5 Method 6020_
Acquired: 08/18/2010 14:01:52 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00265	1.0	0.078	0.0	
7429-90-5	Aluminum	27	5823	-0.02720	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	23512	4.7868	50.0	32.0	0.0	
7440-62-2	Vanadium	51	-19479	-0.25243	10.0	3.1	0.0	
7440-47-3	Chromium	52	23328	0.20069	2.0	0.92	0.0	
7439-89-6	Iron	57	11343	1.8386	50.0	17.0	0.0	
7439-96-5	Manganese	55	1825	0.00182	1.0	0.083	0.0	
7440-48-4	Cobalt	59	123	0.00302	1.0	0.057	0.0	
7440-02-0	Nickel	60	149	-0.00289	2.0	0.098	0.0	
7440-50-8	Copper	65	301	0.00218				
7440-66-6	Zinc	68	665	0.01893	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14428	0.24532	2.0	0.50	0.0	
7782-49-2	Selenium	78	15021	0.46065	2.0	1.7	0.0	
7782-49-2	Selenium	82	1661	0.10598	2.0	1.7	0.0	
7440-22-4	Silver	107	64	0.00309	1.0	0.030	0.0	
7440-43-9	Cadmium	111	15	0.00231	1.0	0.074	0.0	
7440-43-9	Cadmium	114	40	0.00219	1.0	0.074	0.0	
7440-36-0	Antimony	121	738	0.06166	2.0	0.036	0.0	
7440-39-3	Barium	135	75	0.00471	1.0	0.96	0.0	
7440-28-0	Thallium	205	3394	0.10140	1.0	0.34	0.0	
7439-92-1	Lead	208	332	0.00418	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	862481		☑
7440-56-4	Germanium	72	1197978		☑
7440-74-6	Indium	115	1203235		☑
7440-30-4	Thulium	169	804276		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01**
File: 100818A1 # 8
Acquired: 08/18/2010 14:15:13
Calibrated: 08/18/2010 13:48:23

Channel 261
Method 6020_
M01

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	24	0.04942		*	☑
7429-90-5	Aluminum	27	37337770	89649	100000	89.6	☑
7723-14-0	Phosphorus	31	40279430	91099	100000	91.1	☐
7440-62-2	Vanadium	51	-19068	-0.30742		*	☑
7440-47-3	Chromium	52	53926	2.9825		*	
7439-89-6	Iron	57	36508048	89912	100000	89.9	☑
7439-96-5	Manganese	55	7951	0.31623		*	☑
7440-48-4	Cobalt	59	5487	0.37282		*	☑
7440-02-0	Nickel	60	-615	-0.25269		*	☑
7440-50-8	Copper	65	-2947	-1.0349		*	
7440-66-6	Zinc	68	4154	3.1171		*	☑
7440-38-2	Arsenic	75	14641	0.60921		*	☑
7782-49-2	Selenium	78	16844	4.2428		*	
7782-49-2	Selenium	82	1646	0.37743		*	☑
7440-22-4	Silver	107	2144	0.18578		*	☑
7440-43-9	Cadmium	111	774	0.28712		*	☑
7440-43-9	Cadmium	114	17586	2.7973		*	
7440-36-0	Antimony	121	3337	0.37652		*	☑
7440-39-3	Barium	135	578	0.23465		*	☑
7440-28-0	Thallium	205	1674	0.04355		*	☑
7439-92-1	Lead	208	6605	0.24344		*	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	727214		☑
7440-56-4	Germanium	72	1133125		☑
7440-74-6	Indium	115	1102675		☑
7440-30-4	Thulium	169	674960		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 9 Method 6020_
Acquired: 08/18/2010 14:19:39 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	45427	101.14	100.00	101	☑
7429-90-5	Aluminum	27	46545799	91223	100100	91.1	☑
7723-14-0	Phosphorus	31	40565525	92047	100000	92.0	☑
7440-62-2	Vanadium	51	1225064	95.426	100.00	95.4	☑
7440-47-3	Chromium	52	1153579	99.220	100.00	99.2	☑
7439-89-6	Iron	57	36926134	91231	100100	91.1	☑
7439-96-5	Manganese	55	1796098	90.937	100.00	90.9	☑
7440-48-4	Cobalt	59	1375209	94.988	100.00	95.0	☑
7440-02-0	Nickel	60	286091	94.225	100.00	94.2	☑
7440-50-8	Copper	65	280901	90.421	100.00	90.4	☑
7440-66-6	Zinc	68	109569	96.103	100.00	96.1	☑
7440-38-2	Arsenic	75	294008	101.99	100.00	102	☑
7782-49-2	Selenium	78	88816	107.63	100.00	108	☑
7782-49-2	Selenium	82	32182	106.31	100.00	106	☑
7440-22-4	Silver	107	536381	46.337	50.000	92.7	☑
7440-43-9	Cadmium	111	264495	97.669	100.00	97.7	☑
7440-43-9	Cadmium	114	640315	100.52	100.00	101	☑
7440-36-0	Antimony	121	449310	52.234	50.000	104	☑
7440-39-3	Barium	135	222464	99.127	100.00	99.1	☑
7440-28-0	Thallium	205	936968	46.725	50.000	93.5	☑
7439-92-1	Lead	208	2461121	93.804	100.00	93.8	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	720708		☑
7440-56-4	Germanium	72	1128847		☑
7440-74-6	Indium	115	1117988		☑
7440-30-4	Thulium	169	669421		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 11 Method 6020_
Acquired: 08/18/2010 14:35:56 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	53027	98.371	100.00	98.4	
7429-90-5	Aluminum	27	36850317	4571.4	5100.0	89.6	
7723-14-0	Phosphorus	31	2266924	4479.8	5000.0	89.6	
7440-62-2	Vanadium	51	1378189	94.414	100.00	94.4	
7440-47-3	Chromium	52	1288885	97.451	100.00	97.5	
7439-89-6	Iron	57	2213827	4786.8	5100.0	93.9	
7439-96-5	Manganese	55	2087985	92.965	100.00	93.0	
7440-48-4	Cobalt	59	1547455	93.993	100.00	94.0	
7440-02-0	Nickel	60	338519	98.037	100.00	98.0	
7440-50-8	Copper	65	348133	98.549	100.00	98.5	
7440-66-6	Zinc	68	126813	97.817	100.00	97.8	
7440-38-2	Arsenic	75	327584	99.833	100.00	99.8	
7782-49-2	Selenium	78	94842	99.852	100.00	99.9	
7782-49-2	Selenium	82	34176	98.918	100.00	98.9	
7440-22-4	Silver	107	655901	50.758	50.000	102	
7440-43-9	Cadmium	111	302337	100.01	100.00	100	
7440-43-9	Cadmium	114	710249	99.880	100.00	99.9	
7440-36-0	Antimony	121	481904	50.187	50.000	100	
7440-39-3	Barium	135	250015	99.791	100.00	99.8	
7440-28-0	Thallium	205	1184169	49.048	50.000	98.1	
7439-92-1	Lead	208	3082933	97.594	100.00	97.6	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	864728		☑
7440-56-4	Germanium	72	1283541		☑
7440-74-6	Indium	115	1247864		☑
7440-30-4	Thulium	169	805798		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 12 Method 6020_
Acquired: 08/18/2010 14:40:24 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00203	1.0	0.078	0.0	
7429-90-5	Aluminum	27	6270	-0.02261	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	21841	-1.8340	50.0	32.0	0.0	
7440-62-2	Vanadium	51	-19380	-0.15303	10.0	3.1	0.0	
7440-47-3	Chromium	52	34545	0.93866	2.0	0.92	0.0	
7439-89-6	Iron	57	13725	5.2907	50.0	17.0	0.0	
7439-96-5	Manganese	55	1947	0.00154	1.0	0.083	0.0	
7440-48-4	Cobalt	59	115	0.00204	1.0	0.057	0.0	
7440-02-0	Nickel	60	94	-0.02180	2.0	0.098	0.0	
7440-50-8	Copper	65	313	-0.00031				
7440-66-6	Zinc	68	815	0.09862	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15648	0.31126	2.0	0.50	0.0	
7782-49-2	Selenium	78	17049	1.6915	2.0	1.7	0.0	
7782-49-2	Selenium	82	1740	-0.00908	2.0	1.7	0.0	
7440-22-4	Silver	107	69	0.00328	1.0	0.030	0.0	
7440-43-9	Cadmium	111	20	0.00374	1.0	0.074	0.0	
7440-43-9	Cadmium	114	49	0.00319	1.0	0.074	0.0	
7440-36-0	Antimony	121	2606	0.25125	2.0	0.036	0.0	
7440-39-3	Barium	135	76	0.00359	1.0	0.96	0.0	
7440-28-0	Thallium	205	4655	0.14741	1.0	0.34	0.0	
7439-92-1	Lead	208	355	0.00451	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	869807		☑
7440-56-4	Germanium	72	1282074		☑
7440-74-6	Indium	115	1258761		☑
7440-30-4	Thulium	169	833543		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 2 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 15 Method 6020_
Acquired: 08/18/2010 14:44:53 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	51384	99.613	100.00	99.6	
7429-90-5	Aluminum	27	34819374	4991.3	5100.0	97.9	
7723-14-0	Phosphorus	31	2127870	4860.1	5000.0	97.2	
7440-62-2	Vanadium	51	1314130	98.782	100.00	98.8	
7440-47-3	Chromium	52	1233886	99.130	100.00	99.1	
7439-89-6	Iron	57	2074018	4947.8	5100.0	97.0	
7439-96-5	Manganese	55	1983793	98.412	100.00	98.4	
7440-48-4	Cobalt	59	1460243	97.735	100.00	97.7	
7440-02-0	Nickel	60	316716	96.905	100.00	96.9	
7440-50-8	Copper	65	332836	99.028	100.00	99.0	
7440-66-6	Zinc	68	122376	99.956	100.00	100	
7440-38-2	Arsenic	75	316305	100.01	100.00	100	
7782-49-2	Selenium	78	91513	99.930	100.00	99.9	
7782-49-2	Selenium	82	32665	98.949	100.00	98.9	
7440-22-4	Silver	107	625551	49.549	50.000	99.1	
7440-43-9	Cadmium	111	289653	99.544	100.00	99.5	
7440-43-9	Cadmium	114	678804	99.305	100.00	99.3	
7440-36-0	Antimony	121	467483	50.399	50.000	101	
7440-39-3	Barium	135	242065	100.60	100.00	101	
7440-28-0	Thallium	205	1161198	50.126	50.000	100	
7439-92-1	Lead	208	3026325	100.36	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	841193		☑
7440-56-4	Germanium	72	1239297		☑
7440-74-6	Indium	115	1201038		☑
7440-30-4	Thulium	169	788229		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 2** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 16 Method 6020_
Acquired: 08/18/2010 14:49:21 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00216	1.0	0.078	0.0	
7429-90-5	Aluminum	27	5526	-0.07661	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	20293	-1.9111	50.0	32.0	0.0	
7440-62-2	Vanadium	51	-16110	0.19708	10.0	3.1	0.0	
7440-47-3	Chromium	52	33329	-0.00463	2.0	0.92	0.0	
7439-89-6	Iron	57	13027	-0.57064	50.0	17.0	0.0	
7439-96-5	Manganese	55	1853	-0.00141	1.0	0.083	0.0	
7440-48-4	Cobalt	59	106	-0.00037	1.0	0.057	0.0	
7440-02-0	Nickel	60	88	-0.00090	2.0	0.098	0.0	
7440-50-8	Copper	65	320	0.00527				
7440-66-6	Zinc	68	790	0.00263	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15142	0.00611	2.0	0.50	0.0	
7782-49-2	Selenium	78	16533	0.07365	2.0	1.7	0.0	
7782-49-2	Selenium	82	1690	0.02644	2.0	1.7	0.0	
7440-22-4	Silver	107	65	-0.00007	1.0	0.030	0.0	
7440-43-9	Cadmium	111	24	0.00168	1.0	0.074	0.0	
7440-43-9	Cadmium	114	50	0.00042	1.0	0.074	0.0	
7440-36-0	Antimony	121	2628	0.01455	2.0	0.036	0.0	
7440-39-3	Barium	135	75	0.00084	1.0	0.96	0.0	
7440-28-0	Thallium	205	4517	-0.00042	1.0	0.34	0.0	
7439-92-1	Lead	208	337	-0.00026	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	839955		☑
7440-56-4	Germanium	72	1239079		☑
7440-74-6	Indium	115	1203021		☑
7440-30-4	Thulium	169	810344		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 3 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 24 Method 6020_
Acquired: 08/18/2010 15:24:44 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	47163	100.12	100.00	100	
7429-90-5	Aluminum	27	29063392	4450.1	5100.0	87.3	
7723-14-0	Phosphorus	31	1808503	4407.0	5000.0	88.1	
7440-62-2	Vanadium	51	1181336	94.905	100.00	94.9	
7440-47-3	Chromium	52	1095188	93.847	100.00	93.8	
7439-89-6	Iron	57	1856100	4728.6	5100.0	92.7	
7439-96-5	Manganese	55	1743332	92.372	100.00	92.4	
7440-48-4	Cobalt	59	1304918	93.289	100.00	93.3	
7440-02-0	Nickel	60	282029	92.176	100.00	92.2	
7440-50-8	Copper	65	300246	95.421	100.00	95.4	
7440-66-6	Zinc	68	111552	97.305	100.00	97.3	
7440-38-2	Arsenic	75	295277	99.705	100.00	99.7	
7782-49-2	Selenium	78	85200	99.259	100.00	99.3	
7782-49-2	Selenium	82	30098	97.302	100.00	97.3	
7440-22-4	Silver	107	579659	50.177	50.000	100	
7440-43-9	Cadmium	111	266223	99.987	100.00	100	
7440-43-9	Cadmium	114	626584	100.18	100.00	100	
7440-36-0	Antimony	121	437093	51.504	50.000	103	
7440-39-3	Barium	135	228484	103.78	100.00	104	
7440-28-0	Thallium	205	1199446	52.519	50.000	105	
7439-92-1	Lead	208	3148084	105.88	100.00	106	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	768199		☑
7440-56-4	Germanium	72	1160200		☑
7440-74-6	Indium	115	1098946		☑
7440-30-4	Thulium	169	777157		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 3** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 25 Method 6020_
Acquired: 08/18/2010 15:29:12 M01
Calibrated: 08/18/2010 13:48:23 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00289	1.0	0.078	0.0	
7429-90-5	Aluminum	27	6841	0.17848	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	16732	-7.4767	50.0	32.0	0.0	
7440-62-2	Vanadium	51	-11821	0.45206	10.0	3.1	0.0	
7440-47-3	Chromium	52	29150	-0.18633	2.0	0.92	0.0	
7439-89-6	Iron	57	10990	-3.6728	50.0	17.0	0.0	
7439-96-5	Manganese	55	1699	-0.00333	1.0	0.083	0.0	
7440-48-4	Cobalt	59	194	0.00645	1.0	0.057	0.0	
7440-02-0	Nickel	60	100	0.00508	2.0	0.098	0.0	
7440-50-8	Copper	65	337	0.01697				
7440-66-6	Zinc	68	818	0.07082	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15206	0.37032	2.0	0.50	0.0	
7782-49-2	Selenium	78	15011	-0.59756	2.0	1.7	0.0	
7782-49-2	Selenium	82	1536	-0.13168	2.0	1.7	0.0	
7440-22-4	Silver	107	153	0.00786	1.0	0.030	0.0	
7440-43-9	Cadmium	111	43	0.00937	1.0	0.074	0.0	
7440-43-9	Cadmium	114	77	0.00537	1.0	0.074	0.0	
7440-36-0	Antimony	121	4244	0.22663	2.0	0.036	0.0	
7440-39-3	Barium	135	89	0.00968	1.0	0.96	0.0	
7440-28-0	Thallium	205	4998	0.02357	1.0	0.34	0.0	
7439-92-1	Lead	208	687	0.01140	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	764717		☑
7440-56-4	Germanium	72	1160366		☑
7440-74-6	Indium	115	1110786		☑
7440-30-4	Thulium	169	795221		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 4 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01**
File: 100818A1 # 26
Acquired: 08/18/2010 15:41:11
Calibrated: 08/18/2010 13:48:23

Channel 261
Method 6020_
M01

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	45101	100.69	100.00	101	
7429-90-5	Aluminum	27	27105556	4278.7	5100.0	83.9	
7723-14-0	Phosphorus	31	1709405	4293.5	5000.0	85.9	
7440-47-3	Chromium	52	1042356	92.024	100.00	92.0	
7439-96-5	Manganese	55	1646963	89.958	100.00	90.0	
7440-48-4	Cobalt	59	1249011	92.059	100.00	92.1	
7440-02-0	Nickel	60	267149	90.004	100.00	90.0	
7440-50-8	Copper	65	289127	94.723	100.00	94.7	
7440-66-6	Zinc	68	108547	97.618	100.00	97.6	
7440-38-2	Arsenic	75	287463	100.10	100.00	100	
7782-49-2	Selenium	78	82076	98.427	100.00	98.4	
7782-49-2	Selenium	82	28674	95.468	100.00	95.5	
7440-43-9	Cadmium	111	258260	100.75	100.00	101	
7440-43-9	Cadmium	114	604252	100.35	100.00	100	
7440-36-0	Antimony	121	424690	51.984	50.000	104	
7440-39-3	Barium	135	221248	104.38	100.00	104	
7439-92-1	Lead	208	3069022	107.11	100.00	107	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	730681		☑
7440-56-4	Germanium	72	1125333		☑
7440-74-6	Indium	115	1057986		☑
7440-30-4	Thulium	169	748953		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 4** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 27 Method 6020_
Acquired: 08/18/2010 15:45:26 M01
Calibrated: 08/18/2010 15:41:11 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	6	0.00823	1.0	0.078	0.0	
7429-90-5	Aluminum	27	6283	0.10799	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	17591	-4.7023	50.0	32.0	0.0	
7440-47-3	Chromium	52	27311	-0.31237	2.0	0.92	0.0	
7439-96-5	Manganese	55	1662	-0.00396	1.0	0.083	0.0	
7440-48-4	Cobalt	59	194	0.00662	1.0	0.057	0.0	
7440-02-0	Nickel	60	97	0.00450	2.0	0.098	0.0	
7440-50-8	Copper	65	318	0.01246				
7440-66-6	Zinc	68	780	0.04778	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14955	0.36091	2.0	0.50	0.0	
7782-49-2	Selenium	78	15027	-0.25135	2.0	1.7	0.0	
7782-49-2	Selenium	82	1504	-0.16495	2.0	1.7	0.0	
7440-43-9	Cadmium	111	36	0.00710	1.0	0.074	0.0	
7440-43-9	Cadmium	114	82	0.00652	1.0	0.074	0.0	
7440-36-0	Antimony	121	4197	0.23477	2.0	0.036	0.0	
7440-39-3	Barium	135	85	0.00918	1.0	0.96	0.0	
7439-92-1	Lead	208	635	0.01013	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	746994		☑
7440-56-4	Germanium	72	1143117		☑
7440-74-6	Indium	115	1084218		☑
7440-30-4	Thulium	169	781344		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 5 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 30 Method 6020_
Acquired: 08/18/2010 15:49:40 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	45153	99.698	100.00	99.7	
7429-90-5	Aluminum	27	26892714	5050.9	5100.0	99.0	
7723-14-0	Phosphorus	31	1698351	4958.4	5000.0	99.2	
7440-47-3	Chromium	52	1038421	99.426	100.00	99.4	
7439-96-5	Manganese	55	1645640	99.740	100.00	99.7	
7440-48-4	Cobalt	59	1253326	100.17	100.00	100	
7440-02-0	Nickel	60	267440	99.942	100.00	99.9	
7440-50-8	Copper	65	287906	99.402	100.00	99.4	
7440-66-6	Zinc	68	107677	99.022	100.00	99.0	
7440-38-2	Arsenic	75	284647	98.775	100.00	98.8	
7782-49-2	Selenium	78	81254	98.570	100.00	98.6	
7782-49-2	Selenium	82	28479	99.102	100.00	99.1	
7440-43-9	Cadmium	111	258271	98.834	100.00	98.8	
7440-43-9	Cadmium	114	605744	99.075	100.00	99.1	
7440-36-0	Antimony	121	424505	49.387	50.000	98.8	
7440-39-3	Barium	135	220711	98.595	100.00	98.6	
7439-92-1	Lead	208	3044316	98.055	100.00	98.1	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	733636		☑
7440-56-4	Germanium	72	1127338		☑
7440-74-6	Indium	115	1070506		☑
7440-30-4	Thulium	169	757629		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 5** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 31 Method 6020_
Acquired: 08/18/2010 15:53:55 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	7	0.00087	1.0	0.078	0.0	
7429-90-5	Aluminum	27	5814	-0.07669	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	16203	-3.5205	50.0	32.0	0.0	
7440-47-3	Chromium	52	26216	-0.07798	2.0	0.92	0.0	
7439-96-5	Manganese	55	1571	-0.00441	1.0	0.083	0.0	
7440-48-4	Cobalt	59	152	-0.00318	1.0	0.057	0.0	
7440-02-0	Nickel	60	79	-0.00623	2.0	0.098	0.0	
7440-50-8	Copper	65	328	0.00455				
7440-66-6	Zinc	68	780	0.00748	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15102	0.11168	2.0	0.50	0.0	
7782-49-2	Selenium	78	15002	0.20169	2.0	1.7	0.0	
7782-49-2	Selenium	82	1520	0.11558	2.0	1.7	0.0	
7440-43-9	Cadmium	111	37	0.00040	1.0	0.074	0.0	
7440-43-9	Cadmium	114	73	-0.00144	1.0	0.074	0.0	
7440-36-0	Antimony	121	4263	0.01223	2.0	0.036	0.0	
7440-39-3	Barium	135	79	-0.00259	1.0	0.96	0.0	
7439-92-1	Lead	208	622	-0.00046	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	736680		☑
7440-56-4	Germanium	72	1130788		☑
7440-74-6	Indium	115	1073183		☑
7440-30-4	Thulium	169	780294		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 6 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 42 Method 6020_
Acquired: 08/18/2010 16:40:17 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	44099	101.60	100.00	102	
7429-90-5	Aluminum	27	25646510	4978.3	5100.0	97.6	
7723-14-0	Phosphorus	31	1632050	4924.5	5000.0	98.5	
7440-47-3	Chromium	52	1011970	100.14	100.00	100	
7439-96-5	Manganese	55	1571960	98.471	100.00	98.5	
7440-48-4	Cobalt	59	1212994	100.21	100.00	100	
7440-02-0	Nickel	60	261922	101.17	100.00	101	
7440-50-8	Copper	65	285208	101.78	100.00	102	
7440-66-6	Zinc	68	105184	99.980	100.00	100	
7440-38-2	Arsenic	75	276940	99.359	100.00	99.4	
7782-49-2	Selenium	78	79053	99.244	100.00	99.2	
7782-49-2	Selenium	82	27936	100.57	100.00	101	
7440-43-9	Cadmium	111	248878	98.434	100.00	98.4	
7440-43-9	Cadmium	114	588865	99.543	100.00	99.5	
7440-36-0	Antimony	121	412797	49.638	50.000	99.3	
7440-39-3	Barium	135	216624	100.01	100.00	100	
7439-92-1	Lead	208	3087400	99.564	100.00	99.6	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	702932		☑
7440-56-4	Germanium	72	1090834		☑
7440-74-6	Indium	115	1035773		☑
7440-30-4	Thulium	169	756751		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 6** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 43 Method 6020_
Acquired: 08/18/2010 16:44:32 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	10	0.00959	1.0	0.078	0.0	
7429-90-5	Aluminum	27	6354	0.05662	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	14995	-5.8784	50.0	32.0	0.0	
7440-47-3	Chromium	52	26375	0.01100	2.0	0.92	0.0	
7439-96-5	Manganese	55	1577	-0.00142	1.0	0.083	0.0	
7440-48-4	Cobalt	59	192	0.00041	1.0	0.057	0.0	
7440-02-0	Nickel	60	82	-0.00456	2.0	0.098	0.0	
7440-50-8	Copper	65	300	-0.00223				
7440-66-6	Zinc	68	747	-0.00263	5.0	1.0	0.0	
7440-38-2	Arsenic	75	14604	0.08205	2.0	0.50	0.0	
7782-49-2	Selenium	78	14130	-0.48961	2.0	1.7	0.0	
7782-49-2	Selenium	82	1411	-0.13516	2.0	1.7	0.0	
7440-43-9	Cadmium	111	33	-0.00073	1.0	0.074	0.0	
7440-43-9	Cadmium	114	97	0.00292	1.0	0.074	0.0	
7440-36-0	Antimony	121	4000	-0.00386	2.0	0.036	0.0	
7440-39-3	Barium	135	84	0.00096	1.0	0.96	0.0	
7439-92-1	Lead	208	678	0.00203	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	691479		☑
7440-56-4	Germanium	72	1099337		☑
7440-74-6	Indium	115	1037618		☑
7440-30-4	Thulium	169	756213		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 7 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 44 Method 6020_
Acquired: 08/18/2010 16:48:47 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	42933	101.06	100.00	101	
7429-90-5	Aluminum	27	24557007	4785.7	5100.0	93.8	
7723-14-0	Phosphorus	31	1554123	4705.5	5000.0	94.1	
7440-47-3	Chromium	52	977097	97.013	100.00	97.0	
7439-96-5	Manganese	55	1538032	96.723	100.00	96.7	
7440-48-4	Cobalt	59	1177582	97.650	100.00	97.7	
7440-02-0	Nickel	60	251981	97.697	100.00	97.7	
7440-50-8	Copper	65	276861	99.176	100.00	99.2	
7440-66-6	Zinc	68	103423	98.669	100.00	98.7	
7440-38-2	Arsenic	75	273536	98.472	100.00	98.5	
7782-49-2	Selenium	78	77146	96.769	100.00	96.8	
7782-49-2	Selenium	82	26985	97.333	100.00	97.3	
7440-43-9	Cadmium	111	244061	97.861	100.00	97.9	
7440-43-9	Cadmium	114	577110	98.901	100.00	98.9	
7440-36-0	Antimony	121	406828	49.596	50.000	99.2	
7440-39-3	Barium	135	213506	99.941	100.00	99.9	
7439-92-1	Lead	208	3013189	98.591	100.00	98.6	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	688049		☑
7440-56-4	Germanium	72	1086550		☑
7440-74-6	Indium	115	1021735		☑
7440-30-4	Thulium	169	745836		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 7** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 45 Method 6020_
Acquired: 08/18/2010 16:53:01 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	-0.00758	1.0	0.078	0.0	
7429-90-5	Aluminum	27	4027	-0.38311	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	16356	-1.4078	50.0	32.0	0.0	
7440-47-3	Chromium	52	27152	0.10859	2.0	0.92	0.0	
7439-96-5	Manganese	55	1472	-0.00722	1.0	0.083	0.0	
7440-48-4	Cobalt	59	95	-0.00743	1.0	0.057	0.0	
7440-02-0	Nickel	60	73	-0.00769	2.0	0.098	0.0	
7440-50-8	Copper	65	303	-0.00008				
7440-66-6	Zinc	68	773	0.02579	5.0	1.0	0.0	
7440-38-2	Arsenic	75	13711	-0.21459	2.0	0.50	0.0	
7782-49-2	Selenium	78	14115	-0.35745	2.0	1.7	0.0	
7782-49-2	Selenium	82	1398	-0.14174	2.0	1.7	0.0	
7440-43-9	Cadmium	111	15	-0.00777	1.0	0.074	0.0	
7440-43-9	Cadmium	114	29	-0.00846	1.0	0.074	0.0	
7440-36-0	Antimony	121	2576	-0.17717	2.0	0.036	0.0	
7440-39-3	Barium	135	69	-0.00608	1.0	0.96	0.0	
7439-92-1	Lead	208	375	-0.00793	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	704628		☑
7440-56-4	Germanium	72	1091736		☑
7440-74-6	Indium	115	1044482		☑
7440-30-4	Thulium	169	768575		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 8 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 56 Method 6020_
Acquired: 08/18/2010 17:39:14 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	43207	100.66	100.00	101	
7429-90-5	Aluminum	27	24896628	4901.3	5100.0	96.1	
7723-14-0	Phosphorus	31	1578444	4828.5	5000.0	96.6	
7440-47-3	Chromium	52	994483	99.821	100.00	99.8	
7439-96-5	Manganese	55	1543382	98.057	100.00	98.1	
7440-48-4	Cobalt	59	1185105	99.283	100.00	99.3	
7440-02-0	Nickel	60	251864	98.663	100.00	98.7	
7440-50-8	Copper	65	276682	100.13	100.00	100	
7440-66-6	Zinc	68	102615	98.908	100.00	98.9	
7440-38-2	Arsenic	75	272296	99.068	100.00	99.1	
7782-49-2	Selenium	78	76423	96.852	100.00	96.9	
7782-49-2	Selenium	82	26795	97.659	100.00	97.7	
7440-43-9	Cadmium	111	242907	98.022	100.00	98.0	
7440-43-9	Cadmium	114	575024	99.175	100.00	99.2	
7440-36-0	Antimony	121	405864	49.797	50.000	99.6	
7440-39-3	Barium	135	213201	100.43	100.00	100	
7439-92-1	Lead	208	3053035	99.949	100.00	99.9	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	695236		☑
7440-56-4	Germanium	72	1075494		☑
7440-74-6	Indium	115	1015270		☑
7440-30-4	Thulium	169	745405		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 8** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 57 Method 6020_
Acquired: 08/18/2010 17:43:28 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	-0.00589	1.0	0.078	0.0	
7429-90-5	Aluminum	27	4036	-0.37769	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	15741	-3.0101	50.0	32.0	0.0	
7440-47-3	Chromium	52	26647	0.06996	2.0	0.92	0.0	
7439-96-5	Manganese	55	1502	-0.00488	1.0	0.083	0.0	
7440-48-4	Cobalt	59	104	-0.00662	1.0	0.057	0.0	
7440-02-0	Nickel	60	75	-0.00692	2.0	0.098	0.0	
7440-50-8	Copper	65	299	-0.00130				
7440-66-6	Zinc	68	790	0.04681	5.0	1.0	0.0	
7440-38-2	Arsenic	75	13502	-0.27108	2.0	0.50	0.0	
7782-49-2	Selenium	78	13734	-0.84627	2.0	1.7	0.0	
7782-49-2	Selenium	82	1414	-0.06116	2.0	1.7	0.0	
7440-43-9	Cadmium	111	26	-0.00337	1.0	0.074	0.0	
7440-43-9	Cadmium	114	40	-0.00645	1.0	0.074	0.0	
7440-36-0	Antimony	121	2528	-0.17618	2.0	0.036	0.0	
7440-39-3	Barium	135	75	-0.00244	1.0	0.96	0.0	
7439-92-1	Lead	208	374	-0.00771	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	689241		☑
7440-56-4	Germanium	72	1086602		☑
7440-74-6	Indium	115	1023403		☑
7440-30-4	Thulium	169	753117		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 9 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 58 Method 6020_
Acquired: 08/18/2010 17:47:43 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	42055	101.25	100.00	101	
7429-90-5	Aluminum	27	23257438	4645.1	5100.0	91.1	
7723-14-0	Phosphorus	31	1482207	4599.1	5000.0	92.0	
7440-47-3	Chromium	52	948091	96.471	100.00	96.5	
7439-96-5	Manganese	55	1493303	96.269	100.00	96.3	
7440-48-4	Cobalt	59	1152448	97.974	100.00	98.0	
7440-02-0	Nickel	60	245683	97.661	100.00	97.7	
7440-50-8	Copper	65	270927	99.491	100.00	99.5	
7440-66-6	Zinc	68	100227	98.017	100.00	98.0	
7440-38-2	Arsenic	75	265198	97.824	100.00	97.8	
7782-49-2	Selenium	78	74717	95.913	100.00	95.9	
7782-49-2	Selenium	82	26267	97.102	100.00	97.1	
7440-43-9	Cadmium	111	237976	97.493	100.00	97.5	
7440-43-9	Cadmium	114	565494	99.018	100.00	99.0	
7440-36-0	Antimony	121	398617	49.646	50.000	99.3	
7440-39-3	Barium	135	210190	100.51	100.00	101	
7439-92-1	Lead	208	2975709	99.359	100.00	99.4	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	672701		☑
7440-56-4	Germanium	72	1060017		☑
7440-74-6	Indium	115	1000034		☑
7440-30-4	Thulium	169	730987		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 9** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 59 Method 6020_
Acquired: 08/18/2010 17:51:58 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	5	-0.00280	1.0	0.078	0.0	
7429-90-5	Aluminum	27	4127	-0.35158	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	14583	-6.0938	50.0	32.0	0.0	
7440-47-3	Chromium	52	25775	0.00794	2.0	0.92	0.0	
7439-96-5	Manganese	55	1426	-0.00875	1.0	0.083	0.0	
7440-48-4	Cobalt	59	102	-0.00675	1.0	0.057	0.0	
7440-02-0	Nickel	60	73	-0.00719	2.0	0.098	0.0	
7440-50-8	Copper	65	290	-0.00315				
7440-66-6	Zinc	68	794	0.05881	5.0	1.0	0.0	
7440-38-2	Arsenic	75	13607	-0.17801	2.0	0.50	0.0	
7782-49-2	Selenium	78	13803	-0.52452	2.0	1.7	0.0	
7782-49-2	Selenium	82	1400	-0.05869	2.0	1.7	0.0	
7440-43-9	Cadmium	111	19	-0.00612	1.0	0.074	0.0	
7440-43-9	Cadmium	114	44	-0.00574	1.0	0.074	0.0	
7440-36-0	Antimony	121	2554	-0.17131	2.0	0.036	0.0	
7440-39-3	Barium	135	70	-0.00492	1.0	0.96	0.0	
7439-92-1	Lead	208	394	-0.00714	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	691719		☑
7440-56-4	Germanium	72	1075779		☑
7440-74-6	Indium	115	1017146		☑
7440-30-4	Thulium	169	758583		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 10 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 70 Method 6020_
Acquired: 08/18/2010 18:38:39 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	42714	100.21	100.00	100	
7429-90-5	Aluminum	27	24502100	4805.2	5100.0	94.2	
7723-14-0	Phosphorus	31	1569472	4783.1	5000.0	95.7	
7440-47-3	Chromium	52	981299	98.087	100.00	98.1	
7439-96-5	Manganese	55	1540938	97.524	100.00	97.5	
7440-48-4	Cobalt	59	1176808	98.223	100.00	98.2	
7440-02-0	Nickel	60	250997	97.949	100.00	97.9	
7440-50-8	Copper	65	276376	99.628	100.00	99.6	
7440-66-6	Zinc	68	102424	98.340	100.00	98.3	
7440-38-2	Arsenic	75	269597	97.629	100.00	97.6	
7782-49-2	Selenium	78	76535	96.597	100.00	96.6	
7782-49-2	Selenium	82	27003	98.072	100.00	98.1	
7440-43-9	Cadmium	111	240674	97.872	100.00	97.9	
7440-43-9	Cadmium	114	570146	99.097	100.00	99.1	
7440-36-0	Antimony	121	400958	49.571	50.000	99.1	
7440-39-3	Barium	135	210745	100.04	100.00	100	
7439-92-1	Lead	208	3067073	100.06	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	690315		☑
7440-56-4	Germanium	72	1079624		☑
7440-74-6	Indium	115	1007387		☑
7440-30-4	Thulium	169	747983		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 10** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 71 Method 6020_
Acquired: 08/18/2010 18:42:54 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	6	0.00136	1.0	0.078	0.0	
7429-90-5	Aluminum	27	3956	-0.38403	50.0	2.1	0.0	
7723-14-0	Phosphorus	31	15473	-3.2558	50.0	32.0	0.0	
7440-47-3	Chromium	52	26961	0.13496	2.0	0.92	0.0	
7439-96-5	Manganese	55	1480	-0.00518	1.0	0.083	0.0	
7440-48-4	Cobalt	59	98	-0.00705	1.0	0.057	0.0	
7440-02-0	Nickel	60	67	-0.00967	2.0	0.098	0.0	
7440-50-8	Copper	65	256	-0.01557				
7440-66-6	Zinc	68	780	0.04596	5.0	1.0	0.0	
7440-38-2	Arsenic	75	13451	-0.22947	2.0	0.50	0.0	
7782-49-2	Selenium	78	13555	-0.87128	2.0	1.7	0.0	
7782-49-2	Selenium	82	1500	0.33601	2.0	1.7	0.0	
7440-43-9	Cadmium	111	22	-0.00494	1.0	0.074	0.0	
7440-43-9	Cadmium	114	42	-0.00605	1.0	0.074	0.0	
7440-36-0	Antimony	121	2350	-0.19741	2.0	0.036	0.0	
7440-39-3	Barium	135	70	-0.00498	1.0	0.96	0.0	
7439-92-1	Lead	208	352	-0.00857	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	681270		☑
7440-56-4	Germanium	72	1073670		☑
7440-74-6	Indium	115	1018677		☑
7440-30-4	Thulium	169	762793		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:21:26

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 11 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 72 Method 6020_
Acquired: 08/18/2010 18:47:08 M01
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	41731	99.491	100.00	99.5	
7429-90-5	Aluminum	27	23139912	4663.4	5100.0	91.4	
7723-14-0	Phosphorus	31	1483589	4644.8	5000.0	92.9	
7440-47-3	Chromium	52	950577	97.624	100.00	97.6	
7439-96-5	Manganese	55	1475799	95.983	100.00	96.0	
7440-48-4	Cobalt	59	1134317	97.281	100.00	97.3	
7440-02-0	Nickel	60	244690	98.117	100.00	98.1	
7440-50-8	Copper	65	265870	98.495	100.00	98.5	
7440-66-6	Zinc	68	99742	98.410	100.00	98.4	
7440-38-2	Arsenic	75	264274	98.382	100.00	98.4	
7782-49-2	Selenium	78	74046	95.885	100.00	95.9	
7782-49-2	Selenium	82	25890	96.530	100.00	96.5	
7440-43-9	Cadmium	111	234691	97.508	100.00	97.5	
7440-43-9	Cadmium	114	559175	99.297	100.00	99.3	
7440-36-0	Antimony	121	394889	49.888	50.000	99.8	
7440-39-3	Barium	135	207238	100.51	100.00	101	
7439-92-1	Lead	208	3026173	99.103	100.00	99.1	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	679568		☑
7440-56-4	Germanium	72	1050627		☑
7440-74-6	Indium	115	985986		☑
7440-30-4	Thulium	169	745223		☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) | M01 | Reported: 08/19/10 10:24:11

Department: 120 (Metals) Source: MetEdit

Sample: **L5LCFP5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 65 Method 6020_
Acquired: 08/18/2010 18:17:21 M01 Matrix: AIR
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9	8	0.03159	0.04024	21.5		*	
7429-90-5	Aluminum	27	981566	928.31	936.15	0.837		*	
7723-14-0	Phosphorus	31	35408	273.20	295.66	7.60		*	
7440-47-3	Chromium	52	38392	5.8777	3.6220	62.3		*	
7439-96-5	Manganese	55	1381346	424.06	429.74	1.32	0.14	1.3	☑
7440-48-4	Cobalt	59	6465	2.5413	2.6578	4.38		*	
7440-02-0	Nickel	60	1521	2.6999	2.7858	3.08		*	
7440-50-8	Copper	65	30928	53.603	54.940	2.43		*	
7440-66-6	Zinc	68	8409	35.889	35.737	0.424		*	
7440-38-2	Arsenic	75	14104	-0.84166	0.41443	303	0.41	NC	☑
7782-49-2	Selenium	78	14381	-1.8600	-0.17564			*	
7782-49-2	Selenium	82	1519	1.0147	0.19344	425		*	
7440-43-9	Cadmium	111	259	0.44477	0.48479	8.25		*	
7440-43-9	Cadmium	114	429	0.29600	0.32908	10.1		*	
7440-36-0	Antimony	121	1223	-1.6914	0.06760	2600		*	
7440-39-3	Barium	135	15829	36.384	37.083	1.89		*	
7439-92-1	Lead	208	30097	4.7635	4.8728	2.24		*	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	674114		☑
7440-56-4	Germanium	72	1112812		☐
7440-74-6	Indium	115	1035296		☐
7440-30-4	Thulium	169	755413		☐

*** Analyte not requested for this batch, no MDL**

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 08/19/10 10:24:18

Department: 120 (Metals) Source: MetEdit

Sample: **L5LCFZ** Spike Dilution: **1.00** Sample Dilution: **1.00**

Instrument: **ICPMS M01** Channel 261
File: 100818A1 # 66 Method 6020_
Acquired: 08/18/2010 18:21:36 M01 Matrix: AIR
Calibrated: 08/18/2010 15:45:26 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	82114	193.74	0.04024	96.9	200		☑
7429-90-5	Aluminum	27	9027037	1864.9	936.15	92.9	1000		☑
7723-14-0	Phosphorus	31	394096	1228.0	295.66	93.2	1000		☑
7440-47-3	Chromium	52	1851362	197.61	3.6220	97.0	200		☑
7439-96-5	Manganese	55	9241656	616.86	429.74	93.6	200		☑
7440-48-4	Cobalt	59	2254620	198.29	2.6578	97.8	200		☑
7440-02-0	Nickel	60	492028	202.37	2.7858	99.8	200		☑
7440-50-8	Copper	65	657353	249.91	54.940	97.5	200		☑
7440-66-6	Zinc	68	224893	228.48	35.737	96.4	200		☑
7440-38-2	Arsenic	75	496578	194.58	0.41443	97.1	200		☑
7782-49-2	Selenium	78	127747	186.55	-0.17564	93.3	200		☑
7782-49-2	Selenium	82	48741	191.43	0.19344	95.6	200		☑
7440-43-9	Cadmium	111	467973	190.32	0.48479	94.9	200		☑
7440-43-9	Cadmium	114	1094907	190.31	0.32908	95.0	200		☑
7440-36-0	Antimony	121	1520752	189.36	0.06760	94.6	200		☑
7440-39-3	Barium	135	502224	238.46	37.083	101	200		☑
7439-92-1	Lead	208	6217606	203.91	4.8728	99.5	200		☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	686548		☑
7440-56-4	Germanium	72	1024552		☑
7440-74-6	Indium	115	1007372		☑
7440-30-4	Thulium	169	744177		☑

Reviewed by: Date:

Sample Preparation Log

TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log

Date: 17-Aug-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
G0H170000	240	L5NLJB	2A	NA	NA	NA	100 mL	229240	1.2
G0H170000	240	L5NLJC	2A	NA	NA	NA	100 mL	229240	1.2
G0H170000	240	L5NLJL	2A	NA	NA	NA	100 mL	229240	1.2
G0H140454	9	L5LCF	2A	9 inches	0.75 inches	0.75 inches	100 mL	229240	1.2
G0H140454	10	L5LCG	2A	9 inches	0.75 inches	0.75 inches	100 mL	229240	1.2
G0H140454	11	L5LCK	2A	9 inches	0.75 inches	0.75 inches	100 mL	229240	1.2
G0H140454	12	L5LCN	2A	9 inches	0.75 inches	0.75 inches	100 mL	229240	1.2

Share QC with batch 229243

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).

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0229240 0229243 **Test:** 6020

Prep Date: 8/17/10 **Holding Times:** 2/11/10 2/6/11 **NCM:** Y (N)

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

Spike witness: TP Date: 8/17/10

2nd Level Reviewer: SH Date: 8/18/10

Comments:

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West Sacramento

Metals Spiking Documentation Form

Lot #(s): G0H140454 G0H110409

Batch Number: 0229240 0229243

EPA Analytical Method ID: 6020

Spiked Date: 8/17/10

MS Sample(s): N/A

EPA Prep Method ID: WS-IP-0010

Hot Plate Microwave ID: Met IV

Analyst Initial/Date: JZ 8/17/10

Witness Initial/Date: TP 8/17/10

Hot Plate Temp Initial: 93°C Final: 95°C

Correct Folder ID Witness: N/A

Digestion Cup Lot #: A909651G4

Thermometer ID: BT09

Filter Paper Lot #: R1159282O

Fin Vol Cup Lot: 100629

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	5,000				
		Al, As, Ba, Se, Sn, Tl	200				
		Fe,Mo,Ti	100				
		Sb,Co,Pb,Mn,Ni,V,Zn	50				
		Cu	25				
		Cr	20				
		,Be,Cd	5				
		Ag	5.0				
	ICP Part 2 2% HNO_3	K,Na	5,000				
		P,S	1,000				
		B,Li,Sr	100				
	Si H20/Tr HF	Si	1,000			JZ 8/17/10	
X	TACA-1 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B	500				
		As,Be,Cd,Cr,Co,Cu,Pb, Mn,Ni,Se,U,V,Zn,Ba,Li Sr	100	3189-5-11	200 µl	N/A	5/18/11
		Ag,Tl	25				
X	TACA-2 5% HNO_3	Mo, Sb, Sn, Ti	100	3189-5-12	200 µl	N/A	5/18/11
	Misc. Elements						JZ 8/17/10

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt			30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	
X	3M HNO_3	In-House	4028-6-7		1:1 HCl	In-House	JZ 8/17/10

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

Raw Data Package

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

Air Toxics Laboratory

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G0H140454-9->12 Batch #: 0229350

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 8/17/10 **ANALYST:** [signature]

LEVEL 1 ANALYSIS REVIEW	YES	NO	NA
1. Samples are in good condition.	✓		
2. Sample filter number matches the folder or petri ID number.	✓		
3. Desiccator temperature and % humidity criteria in control.	✓		
4. Balance calibration criteria met.	✓		
5. Beginning and ending calibration sample bracket weights are in calibration.	✓		
6. Samples reached stable weight.	✓		
7. Samples exceeded 5 consecutive final weighings.			✓
LEVEL 1 DATA REVIEW			
1. Benchsheet is complete.	✓		
2. QAS or QAPP consulted and followed for client specifics.	✓		
3. Data entered in properly.	✓		
4. Copy of spreadsheet or logbook raw data entry attached to data package.	✓		
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.			✓

Completed By & Date: [signature] 8/17/10

LEVEL 2 REVIEW:			
1. Level 1 checklist complete and verified.			
2. Deviations, Anomalies, Holding times checked and approved.			
3. Reanalysis documented and chemist notified.			
4. Client specific criteria met.			
5. Data entry checked and released in Quantims.			
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).			

Completed By & Date: _____

Comments: des QA

RQC050 TestAmerica Laboratories, Inc. Run Date: 8/17/10
WET CHEM BATCHSHEET Time: 14:48:58

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
QC BATCH #: **0229350** INITIALS: DATA ENTRY:
PREP DATE: 8/16/10 8:17 PREP INITIALS
COMP DATE: 8/17/10 8:26 ANAL DATE 8/17/10
USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
L5LCF-1-AA	G-0H140454-009	XX S 88 AO 3W	M	8/17/10	UW-08112010
L5LCG-1-AA	G-0H140454-010	XX S 88 AO 3W	M		DW-08112010
L5LCK-1-AA	G-0H140454-011	XX S 88 AO 3W	M		UW-08122010
L5LCN-1-AA	G-0H140454-012	XX S 88 AO 3W	M		DW-08122010

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0229350**

Date 8/17/2010
Time 13:55:04

Method Code:**AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst:**Steve Valmores**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
L5LCF-1-AA	0.0568	g	0.0005	08/16-08/17/10	.00	N		0.057	0.00050	1.00
L5LCG-1-AA	0.0113	g	0.0005	08/16-08/17/10	.00	N		0.011	0.00050	1.00
L5LCK-1-AA	0.0098	g	0.0005	08/16-08/17/10	.00	N		0.0098	0.00050	1.00
L5LCN-1-AA	0.0505	g	0.0005	08/16-08/17/10	.00	N		0.050	0.00050	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	4.9996 080810skv0944	4.9997 080910skv0921	[illegible] 081610skv0817	4.9999 081710skv0825					0.0002
L5LCF 081410skv1215	tron080810-1	4.5602 080810skv0946	4.5602 080910skv0922	4.6167 081610skv0820	4.6170 081710skv0825					0.0568
L5LCG 081410skv1215	tron080810-2	4.5701 080810skv0946	4.5696 080910skv0923	4.5811 081610skv0820	4.5809 081710skv0825					0.0113
	tron080810-3	4.5593 080810skv0947	4.5588 080910skv0924							NC
	tron080810-4	4.5449 080810skv0947	4.5445 080910skv0925							NC
	tron080810-5	4.5676 080810skv0948	4.5674 080910skv0925							NC
	tron080810-6	4.5476 080810skv0948	4.5473 080910skv0926							NC
	tron080810-7	4.5511 080810skv0948	4.5514 080910skv0926							NC
	tron080810-8	4.5572 080810skv0949	4.5576 080910skv0927							NC
	tron080810-9	4.5546 080810skv0950	4.5549 080910skv0927							NC
	tron080810-10	4.5532 080810skv0950	4.5528 080910skv0927							NC
	5 g wt	5.0003 080810skv0951	5.0000 080910skv0928							NC
	tron080810-11	4.5604 080810skv0952	4.5607 080910skv0928							NC
	tron080810-12	4.5444 080810skv0952	4.5449 080910skv0929							NC
	tron080810-13	4.5499 080810skv0952	4.5501 080910skv0930							NC
L5LCK 081410skv1215	tron080810-14	4.5600 080810skv0953	4.5601 080910skv0930	4.5698 081610skv0820	4.5699 081710skv0826					0.0098
L5LCN 081410skv1215	tron080810-15	4.5573 080810skv0953	4.5573 080910skv0930	4.6083 081610skv0821	4.6078 081710skv0826					0.0505
	5 g wt	5.0004 080810skv0954	4.9999 080910skv0931	4.9999 081610skv0821	[illegible] 081710skv0826					0.0001

rev 020303

N:/atg/air/airgrav3k.xls

Page 1/1 Batch#: 029350

Reviewed by:_____

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	FN	T	RH
7/27/10	✓	72	33	-	73	33	-	74	26	(2)	73	27	(2)	73	29	-	73	38	-	73	37	-	73	45
7/28/10	✓	71	33	-	72	34	-	73	27	(2)	73	29	-	72	27	(2)	72	38	-	72	37	-	73	42
7/29/10	✓	70	33	-	70	34	-	71	27	(2)	70	30	-	70	28	-	72	38	-	72	37	-	72	42
7/30/10	✓	71	33	-	71	34	-	72	27	(2)	71	31	-	71	29	-	71	38		71	38	-	73	46
8/1/10	✓	71	33	-	72	37	-	73	27	(2)	72	32	-	72	31	-	73	38	-	73	37	-	73	48
8/2/10	ECY	71	34	-	71	37	-	72	29	-	70	33	-	71	32	-	72	39		72	37	-	72	46
8/3/10	ECY	70	34	-	71	38		72	31	-	70	34	-	71	34	-	72	39		72	38		72	47
8/4/10	ECY	71	34	-	71	40		72	30	-	71	34	-	31 ECY 8/4/10	36	-	72	39		72	38		73	47
8/5/10	ECY	70	34 ECY 8/5/10 33	-	70	40	(1)	71	32	-	70	34	-	70	36	(1)	72	39	(1)	72	37	(1)	72	45
8/6/10	ECY	70	33	-	70	28	-	71	33	-	70	34	-	70	28	-	72	16	(2)	72	11	(2)	72	46
8/8/10	✓	70	38	-	71	28	-	72	34	-	70	35	-	71	28	-	72	14	(2)	72	11	(2)	73	50
8/9/10	ECY	70	32	-	70	28	-	71	34	-	70	40	(1)	70	28	-	72	14	(2)	72	11	(2)	72	50
8/10/10	✓	70	32	-	70	28	-	71	34	-	70	40	(1)	70	28	-	72	14	(2)	72	11	(2)	72	45
8/11/10	ECY	70	32	-	70	28	-	71	34	-	70	28	-	70	28	-	72	14	(2)	72	11	(2)	72	44
8/12/10	✓	69	32	-	70	28	-	70	34	-	69	28	-	70	28	-	72	16	(2)	72	12	(2)	72	47

Abbreviations: T = Temperature (°F) RH = Relative Humidity (%) FN = Foot Note
Limits: RH 33± 5% Temperature 22± 5 °C or 71.6± 9°F
Foot Notes: 1 = Desiccant Changed 2 = Desiccator < 28% Humidity

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
8/13/10	ECJ	70	32	—	71	28	—	72	35	—	70	28	—	71	28	—	72	16	(2)	72	11	(2)	72	46
8/14/10	✓	71	32	-	72	28	-	73	35	-	72	28	-	72	27	(2)	73	18	(2)	73	11	(2)	75	46
8/16/10	✓	70	33	-	70	28	-	71	37	-	70	29		71	28	-	72	22	(2)	72	11	(2)	72	47
8/17/10	✓	70	33	-	70	28	-	71	38	-	70	28	-	70	28	-	72	22	(2)	72	11	(2)	72	45

Abbreviations: T = Temperature (°F) RH = Relative Humidity (%) FN = Foot Note
Limits: RH 33± 5% Temperature 22± 5 °C or 71.6± 9°F
Foot Notes: 1 = Desiccant Changed 2 = Desiccator < 28% Humidity

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Balance Calibration Check Log

WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)				
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.990	10.010	7/29/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0001	9.990	10.010	7/30/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0006	9.990	10.010	8/1/10	SV	QA-4	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0003	9.990	10.010	8/8/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0006	9.990	10.010	8/9/10	SV	QA-11	P
0.2g	0.1999	0.1998	0.2002	10.0g	10.0007	9.990	10.010	8/10/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0008	9.990	10.010	8/16/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.990	10.010	8/17/10	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.