SFUND RECORDS CTR
2160036

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

December 27, 2004

STL SACRAMENTO PROJECT NUMBER: G4L070405
PO/CONTRACT: W91238-04-F-0084

Dan Jablonski
CH2M Hill Inc
3 Hutton Centre Drive
Suite 200
Santa Ana, CA 92707

Dear Mr. Jablonski,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on December 7, 2004. These samples are associated with your Omega Chemical 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) 374-4362.

Sincerely,

Diana Brooks
Project Manager

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WATER, 410.4, Demand, Chemical Oxygen 154-173
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- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4L070405

WATER, 1625 Modified, Semivolatiles by HRMS
Sample(s): 1, 2, 3, 4, 5, 6

The recovery for the internal standard for the d6-Nitrosodimethylamine (d6-NDMA) had a recovery below the recommended limit of 25%. This is directly due to losses during the solvent reduction steps due to the extreme volatility of these compounds.

Isotope dilution generally precludes any adverse impact to the target compound quantition when a signal to noise of 10:1 is achieved. In all cases this criteria was met and there is no impact to the reported data.

Note: Isotope dilution recovery corrects for losses during extraction, and the sample preparation procedures

There were no other anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-00472
Arkansas	NA	South Carolina	87014001
California	01168CA	Utah	QUANT
Connecticut	PH-0691	Virginia	00178
Florida	E87672	Washington	C1677
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA 044	USACE	NA
New Jersey	CA005	USDA Foreign Plant	P37-32603
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

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 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
G4L070405

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
G0GT8	1	OC2-MW4A-W-0-92	12/6/04 10:10 AM	12/7/04 10:15 AM
G0GT9	2	OC2-MW4B-W-0-93	12/6/04 10:35 AM	12/7/04 10:15 AM
G0GVA	3	OC2-MW4B-W-1-94	12/6/04 10:55 AM	12/7/04 10:15 AM
G0GVC	4	OC2-MW4C-W-0-95	12/6/04 11:30 AM	12/7/04 10:15 AM
G0GVD	5	OC2-00-W-2-96	12/6/04 12:10 PM	12/7/04 10:15 AM
G0GVE	6	OC2-MW5A-W-0-97	12/6/04 12:25 PM	12/7/04 10:15 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
CH2M HILL	DAN JABLONSKI	12/6/04	142903

Address	Telephone Number (Area Code)/Fax Number	Lab Number	
3 HUTTON CNTR DR. STE 200	714-429-2000 / 714-429-2050		Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
SANTA ANA	CA	92707		DIANA BROOKS

Project Name and Location (State)	Carrier/Waybill Number
OMEGA CHEMICAL CA	8204 8670 5300

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	COD	NDMA	1,2,3-TCP	Special Instructions/ Conditions of Receipt
OC2-MW4A-W-0-92	12/6/04	1010		X			X	X					X	X	X	
OC2-MW4B-W-0-93		1035		X			X	X					X	X	X	
OC2-MW4B-W-1-94		1055		X			X	X					X	X	X	
OC2-MW4C-W-0-95		1130		X			X	X					X	X	X	
OC2-OO-W-2-96		1210		X			X								X	
OC2-MW5A-W-0-97		1225		X			X	X					X	X	X	

RECEIVED IN GOOD CONDITION UNDER COC
DEC 7 2004
NI

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/6/04	1700	1. Received By	12-7-04	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT CH2M Hill PM DB LOG # 29929

LOT# (QUANTIMS ID) G4L070405 QUOTE# 60733 LOCATION WLOF

		Initials	Date
DATE RECEIVED 12-7-04 TIME RECEIVED 1015		OV	12-7-04
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER		
CUSTODY SEAL STATUS	☑ INTACT ☐ BROKEN ☐ N/A		
CUSTODY SEAL #(S)	Seal		
SHIPPPING CONTAINER(S)	☐ STL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 1☐ 3 ☑ ☐ OTHER		
COC #(S)	142903		
TEMPERATURE BLANK	2°		
SAMPLE TEMPERATURE	3°		
COLLECTOR'S NAME:	☐ Verified from COC ☑ Not on COC		
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

Notes:

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

WATER, 1625 Modified, Semivolatiles by HRMS

CH2M Hill Inc

Client Sample ID: OC2-MW4A-W-0-92

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-001 Work Order #...: G0GT81AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)
1,2,3-Trichloropropane-d5	46	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-MW4B-W-0-93

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-002 Work Order #...: G0GT91AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)
1,2,3-Trichloropropane-d5	46	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-MW4B-W-1-94

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-003 Work Order #...: G0GVA1AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	14 *	(25 - 150)
1,2,3-Trichloropropane-d5	51	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-MW4C-W-0-95

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-004 Work Order #...: G0GVC1AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	18 *	(25 - 150)
1,2,3-Trichloropropane-d5	53	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-00-W-2-96

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-005 Work Order #...: G0GVD1AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	14 *	(25 - 150)
1,2,3-Trichloropropane-d5	31	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-MW5A-W-0-97

Trace Level Organic Compounds

Lot-Sample #...: G4L070405-006 Work Order #...: G0GVE1AC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	**3.1**	**2.0**	**ng/L**	**CFR136A 1625 Modi**
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	14 *	(25 - 150)
1,2,3-Trichloropropane-d5	44	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G4L070405

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4344214	
002	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4344214	
003	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4344214	
004	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4344214	
005	WATER	CFR136A 1625 Modi		4344214	
006	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4344214	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4L070405 **Work Order #...:** G0L0H1AA **Matrix.....:** WATER
MB Lot-Sample #: G4L090000-214

Prep Date.....: 12/09/04
Analysis Date..: 12/09/04 **Prep Batch #...:** 4344214
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)
1,2,3-Trichloropropane-d5	51	(25 - 150)

NOTE(S):

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

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G4L070405 Work Order #...: G0L0H1AC Matrix.....: WATER
LCS Lot-Sample#: G4L090000-214
Prep Date.....: 12/09/04 Analysis Date..: 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
N-Nitrosodimethylamine	**115**	**(70 - 130)**	**CFR136A 1625 Modifie**
1,2,3-Trichloropropane	**108**	**(50 - 150)**	**CFR136A 1625 Modifie**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)
1,2,3-Trichloropropane-d5	50	(25 - 150)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G4L070405 **Work Order #...:** G0L0H1AC **Matrix.....:** WATER
LCS Lot-Sample#: G4L090000-214
Prep Date.....: 12/09/04 **Analysis Date..:** 12/09/04
Prep Batch #...: 4344214
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
N-Nitrosodimethylamine	**100**	**115**	**ng/L**	**115**	**CFR136A 1625**
1,2,3-Trichloropropane	**100**	**108**	**ng/L**	**108**	**CFR136A 1625**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)
1,2,3-Trichloropropane-d5	50	(25 - 150)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

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: G0L0H-1-AAB Sample text: G0L0H-1-AAB :G4L070405-1MB
Run #8 Filename: 09DE045SP S: 11 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 21:36:09 Processed: 10-DEC-04 09:14:07
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

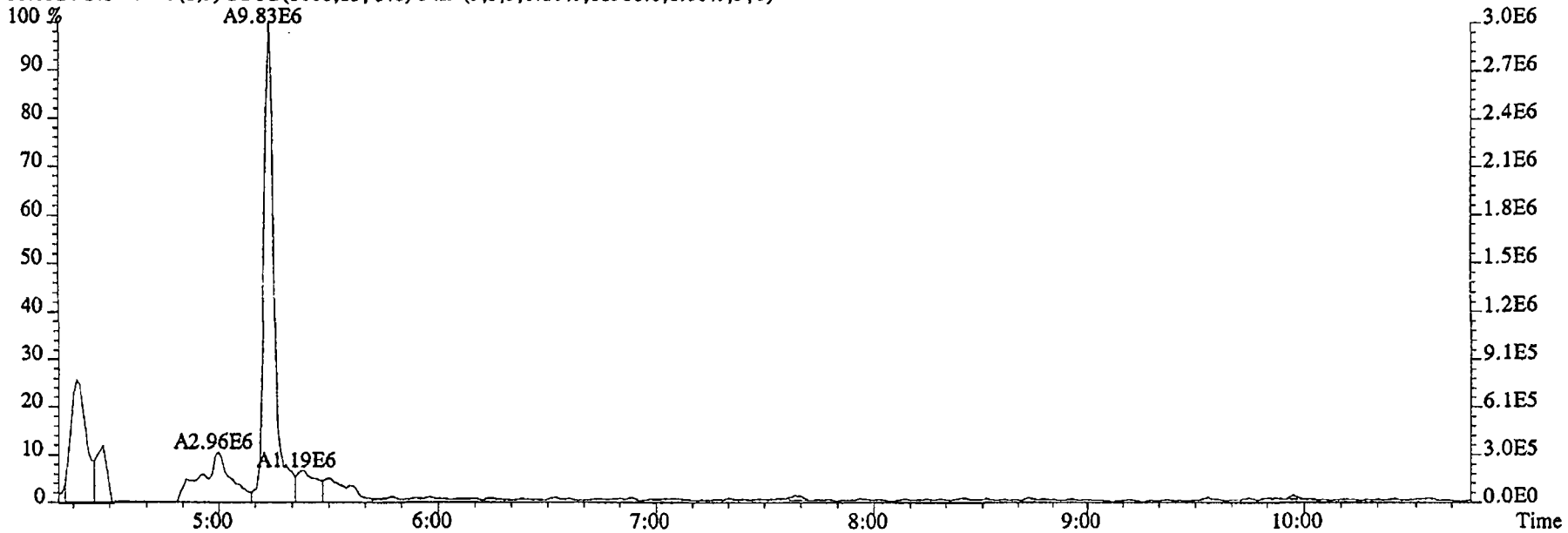
Name	Resp	RA	RT	RRF	Conc	pL	EDL	Rec	M
2-Chloropyridine	48849400		11:08	-	311.00		-	-	n
D8-1,4-Dioxane	54866300		5:14	1.11	201.59		0.26	20.2	n
1,4-Dioxane	9828100		5:14	1.15	156.37		3.08	-	n
D5-123-TriChloroPropane	57454200		10:04	4.65	50.57		0.18	50.6	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	<5.0	3.69	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	9296590		10:14	2.55	14.94		0.19	14.9*	n
NDMA	*		NotFnd	0.98	*	<2.0	~~18.61~~ 1.48	-	n
2-Chloropyridine	158021000		11:08	-	311.14		-	-	n

12-20-04

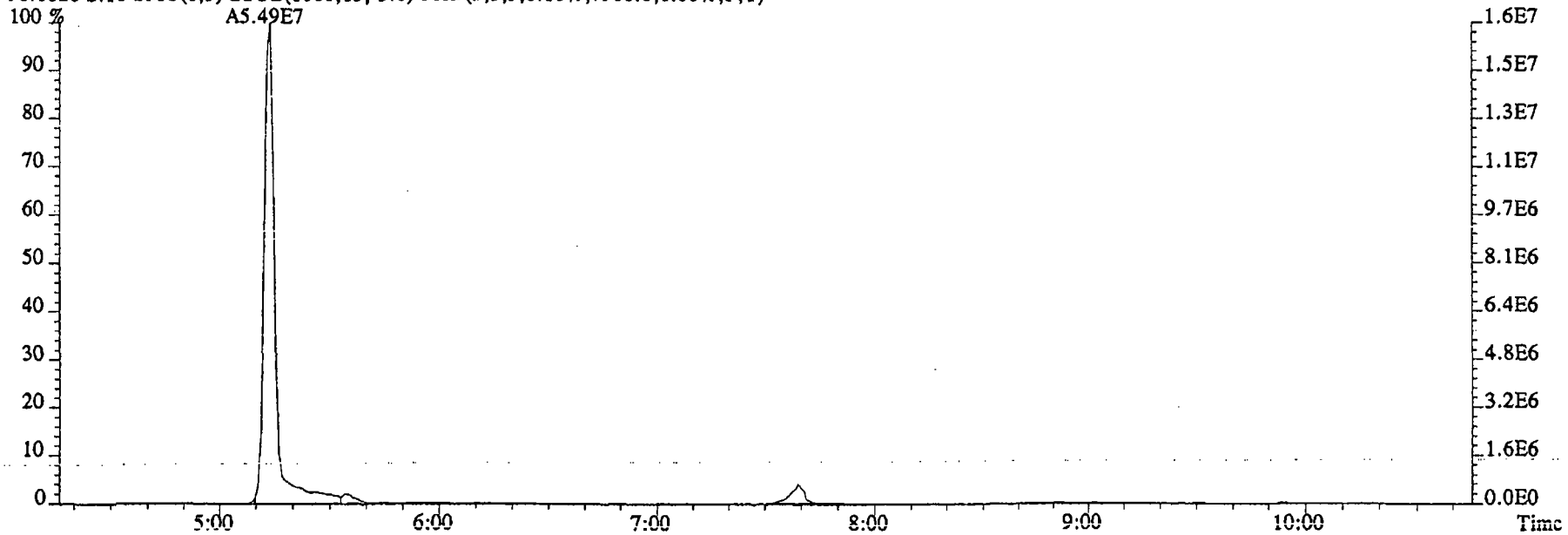
Run text: G0L0H-1-AAB Sample text: G0L0H-1-AAB :G4L070405-1MB
Run #8 Filename: 09DE045SP S: 11 I: 1 Results: KAS
Acquired: 9-DEC-04 21:36:09 Processed: 10-DEC-04 09:14:07
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	48849400		11:08	-	311.00	-	-	n
D8-1,4-Dioxane	54866300		5:14	1.11	201.59	0.26	20.2	n
1,4-Dioxane	9828100		5:14	1.15	156.37	3.08	-	n
D5-123-TriChloroPropane	57454200		10:04	4.65	50.57	0.18	50.6	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	3.69	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	9296590		10:14	2.55	14.94	0.19	14.9	n
NDMA	*		NotFnd	0.98	*	18.61	-	n
2-Chloropyridine	158021000		11:08	-	311.14	-	-	n

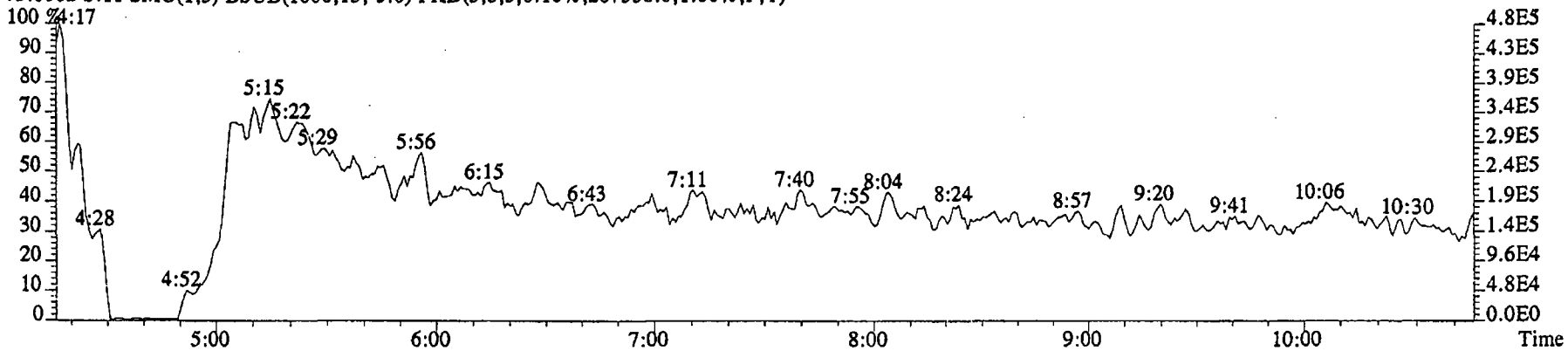
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
88.0524 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18968.0,1.00%,F,T)



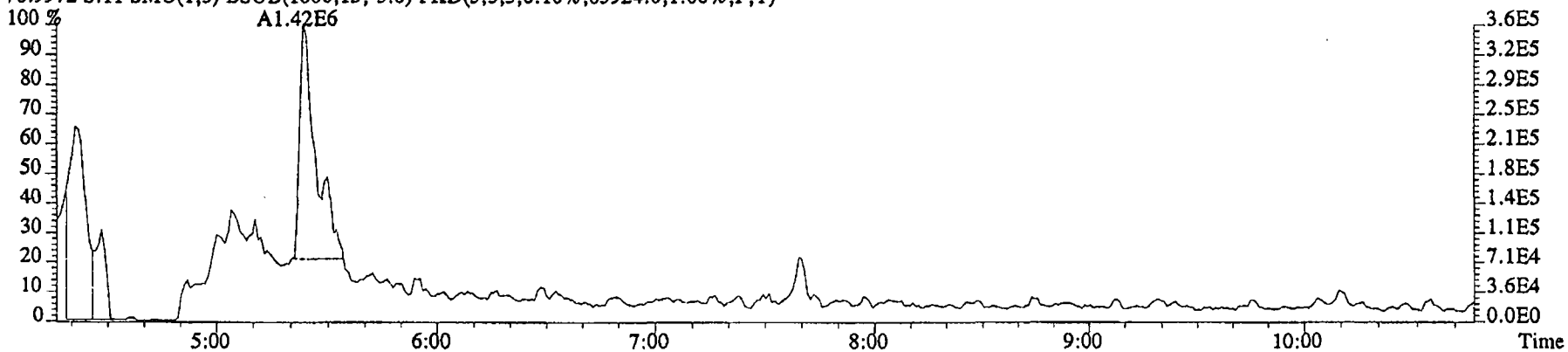
96.1026 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7908.0,1.00%,F,T)



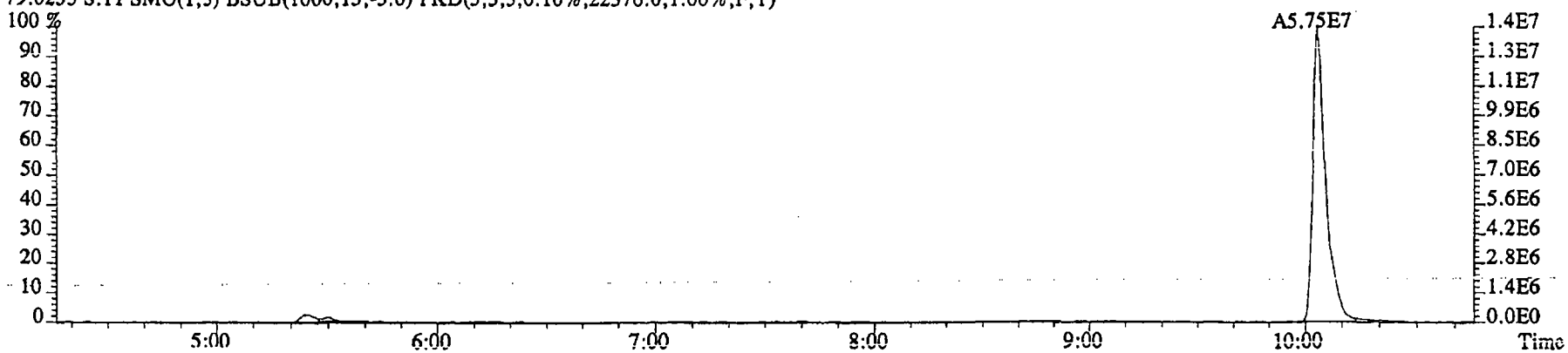
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
75.0002 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,267536.0,1.00%,F,T)



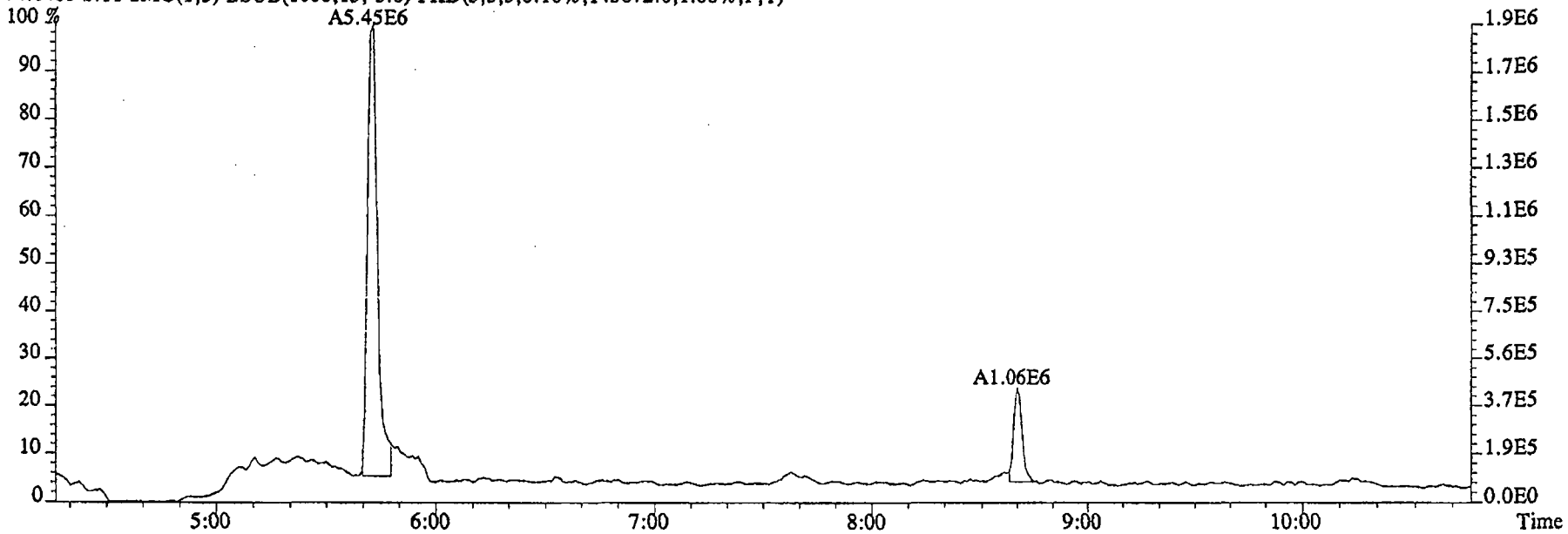
76.9972 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,65924.0,1.00%,F,T)



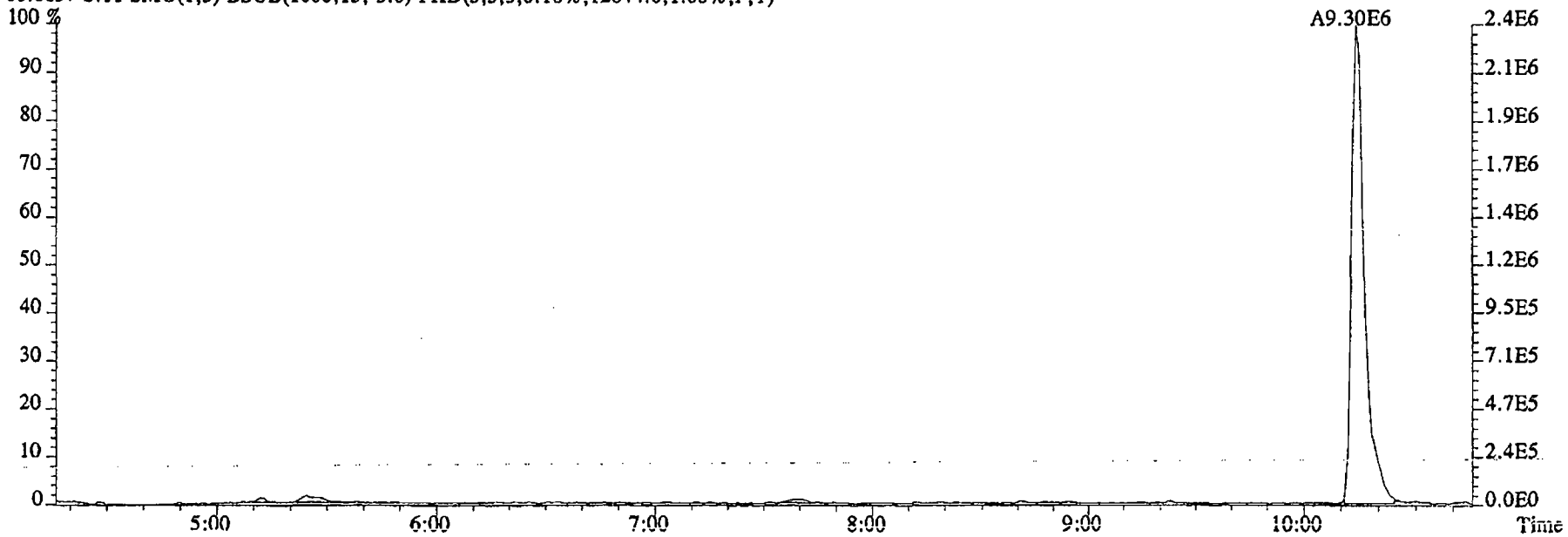
79.0253 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22376.0,1.00%,F,T)



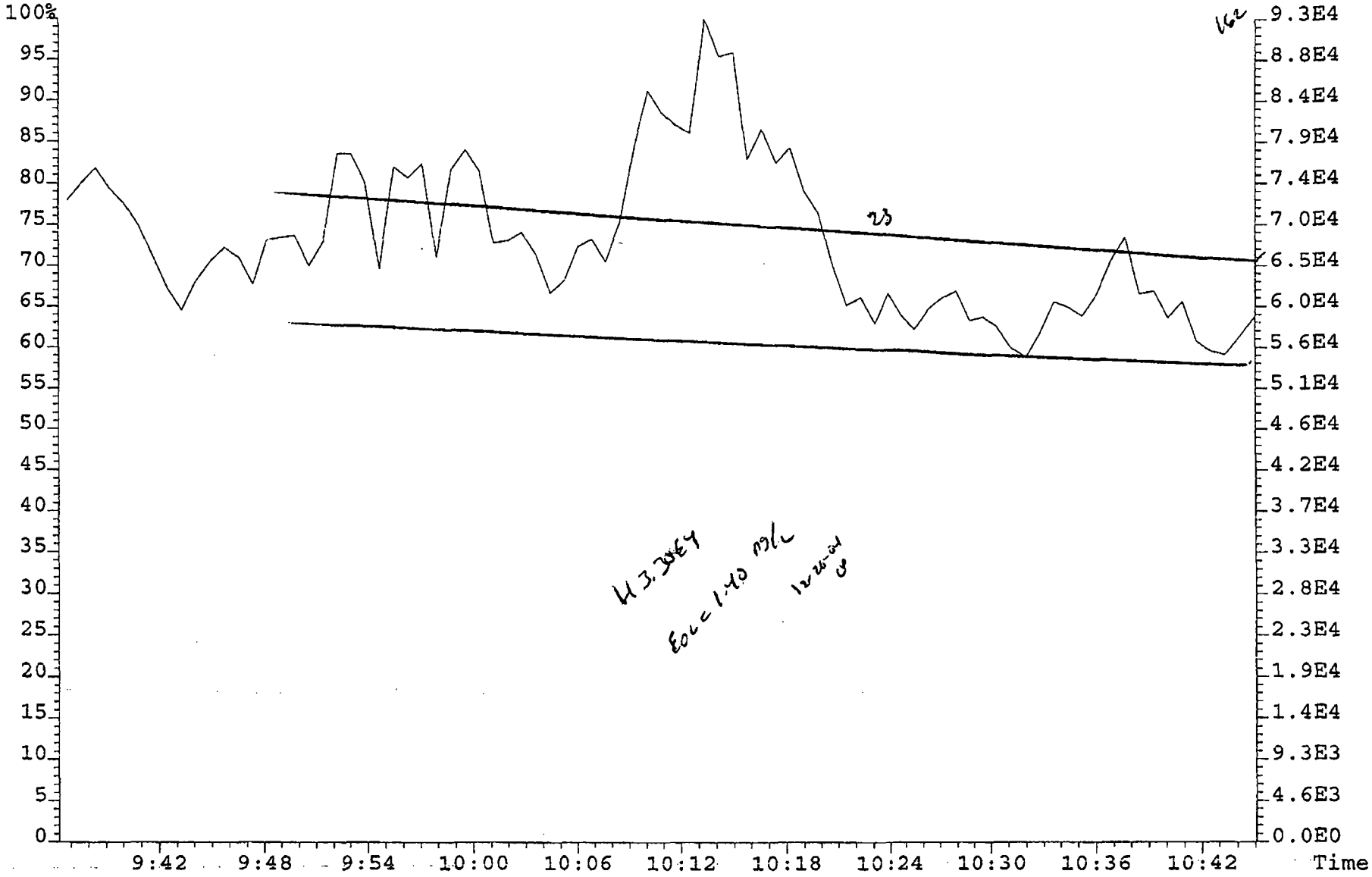
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
74.0480 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,143672.0,1.00%,F,T)



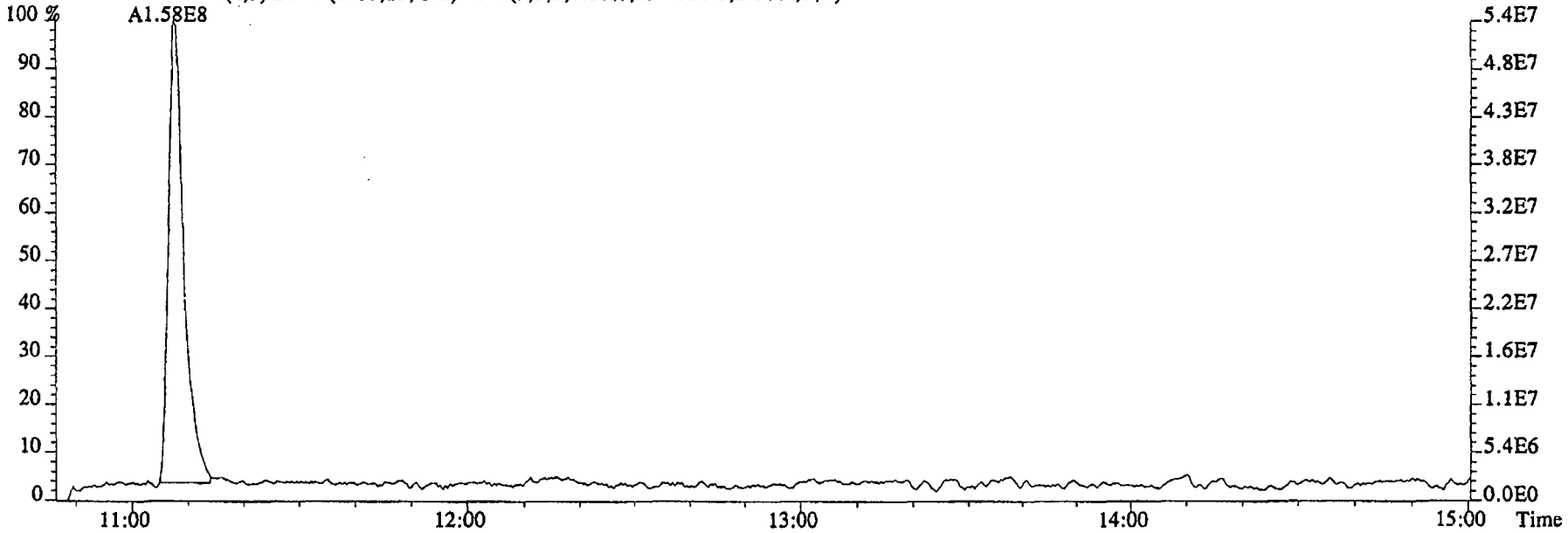
80.0857 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12844.0,1.00%,F,T)



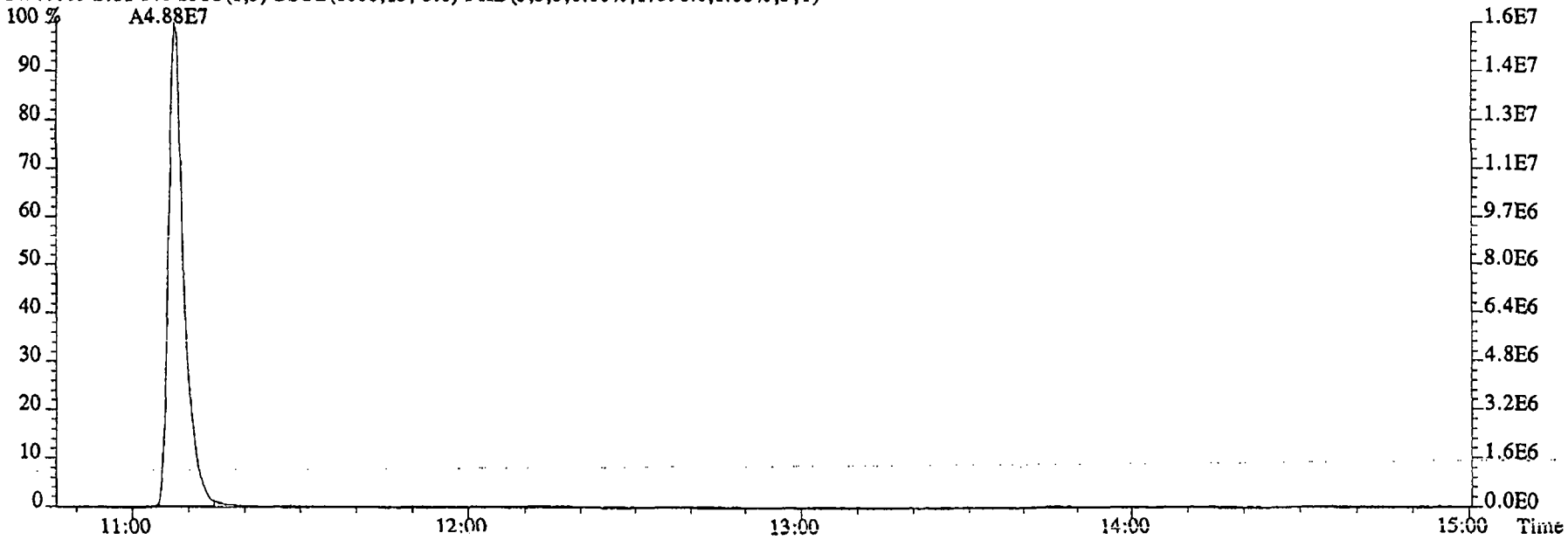
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
74.0480 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,143672.0,1.00%,F,T).



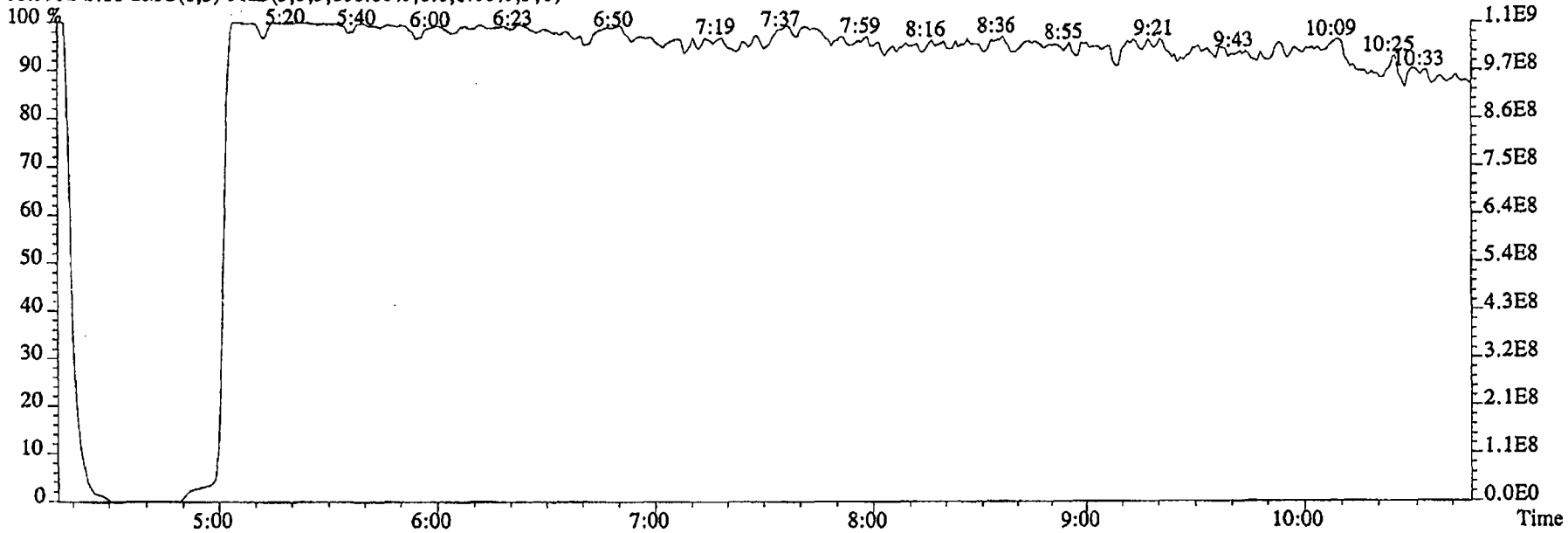
File:09DE045SP #1-592 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
113.0032 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2554928.0,1.00%,F,T)



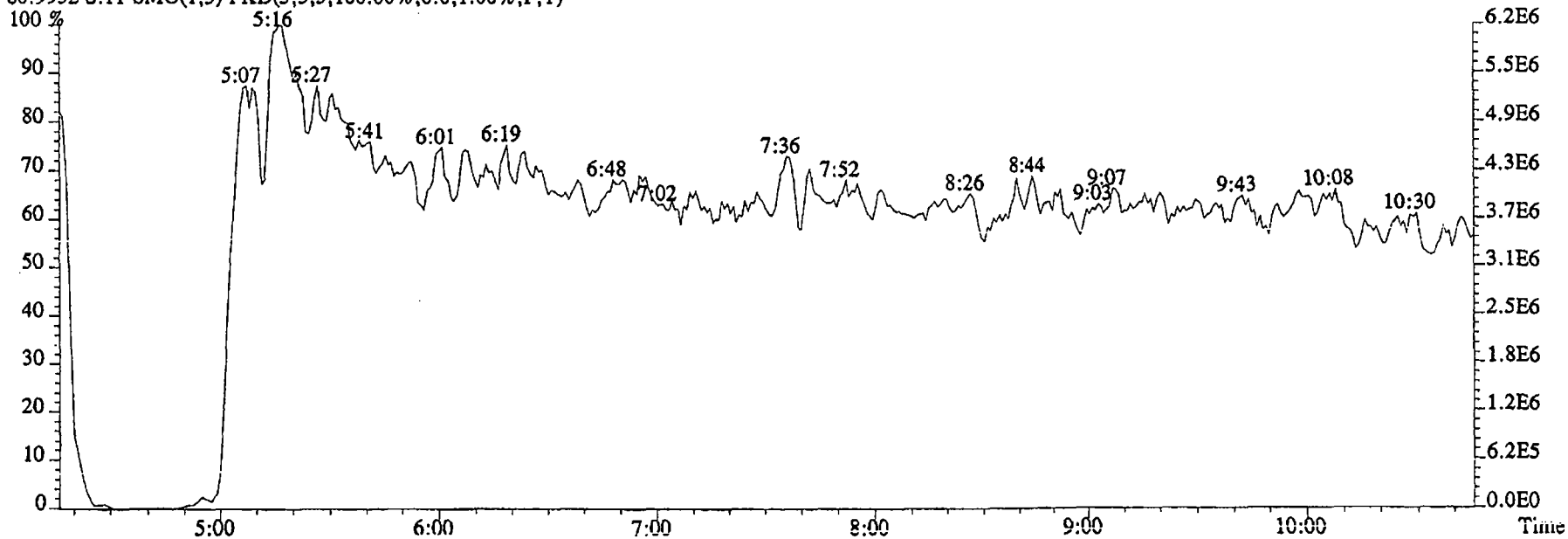
115.0003 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17596.0,1.00%,F,T)



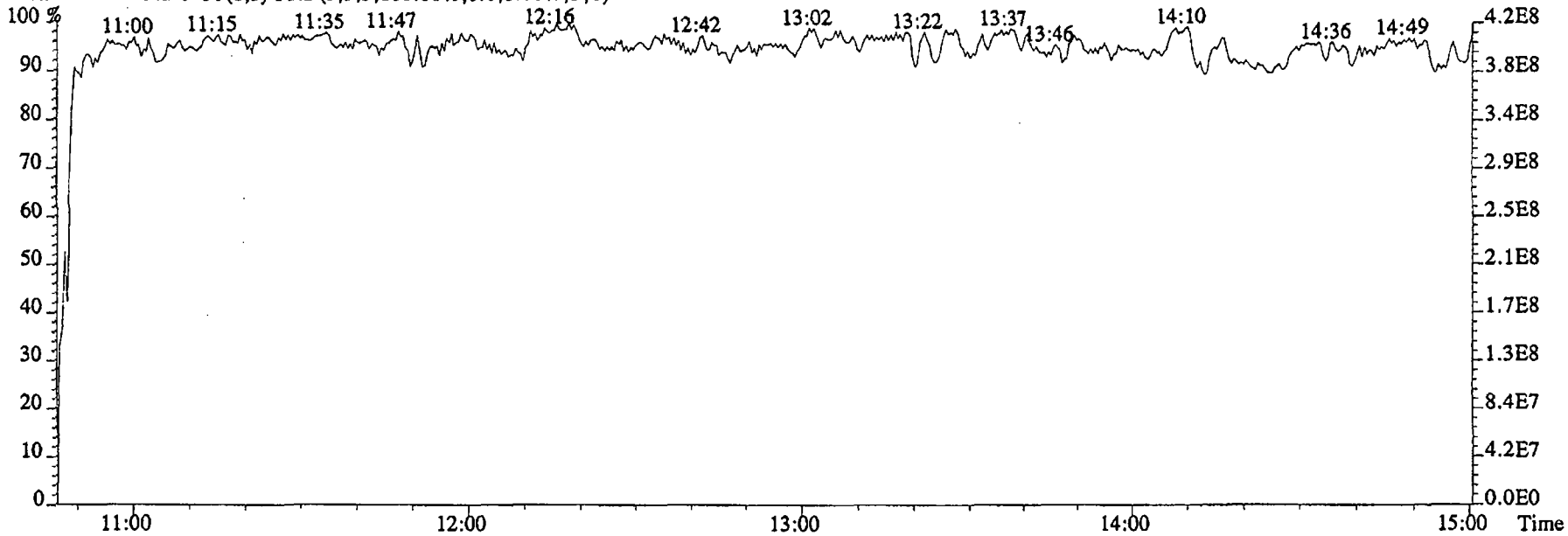
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
68.9952 S:11 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



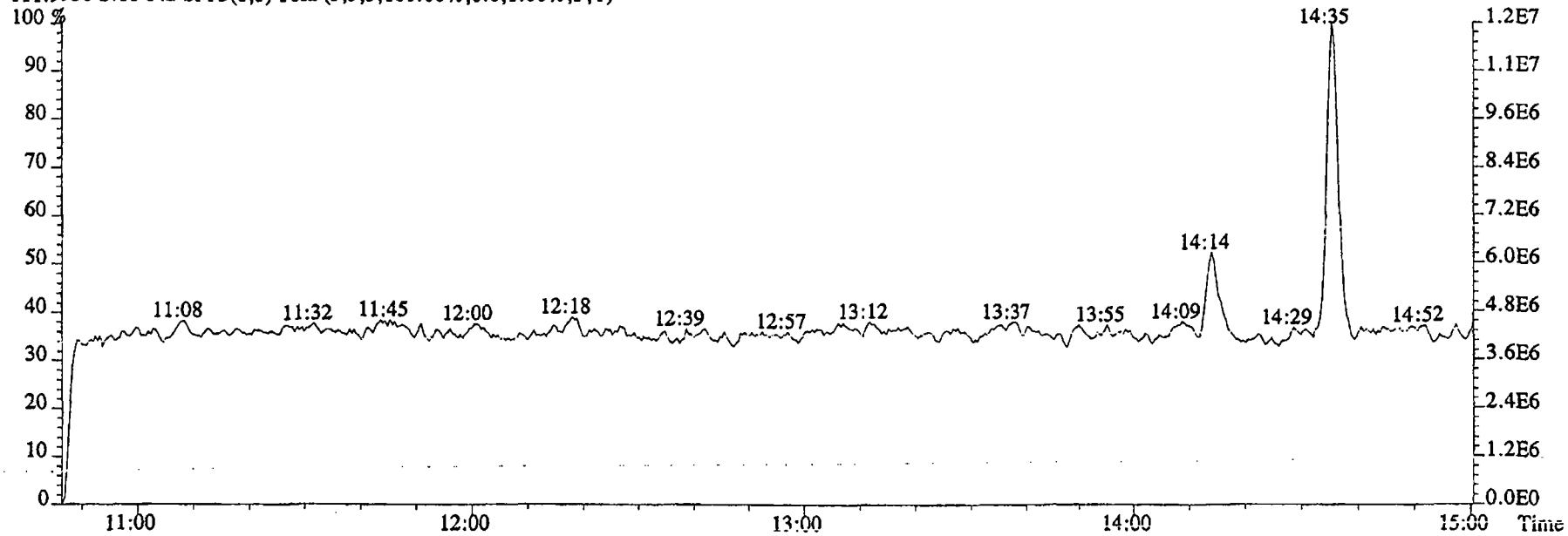
80.9952 S:11 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-592 Acq: 9-DEC-2004 21:36:09 GC EI+ Voltage SIR 70SE
Sample#11 Text:G0L0H-1-AAB :G4L070405-1MB Exp:NDMAVOA
118.9920 S:11 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:11 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0L0H-1-ACC Sample text: G0L0H-1-ACC :G4L070405-1LCS
Run #9 Filename: 09DE045SP S: 12 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 21:56:35 Processed: 10-DEC-04 09:14:08
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

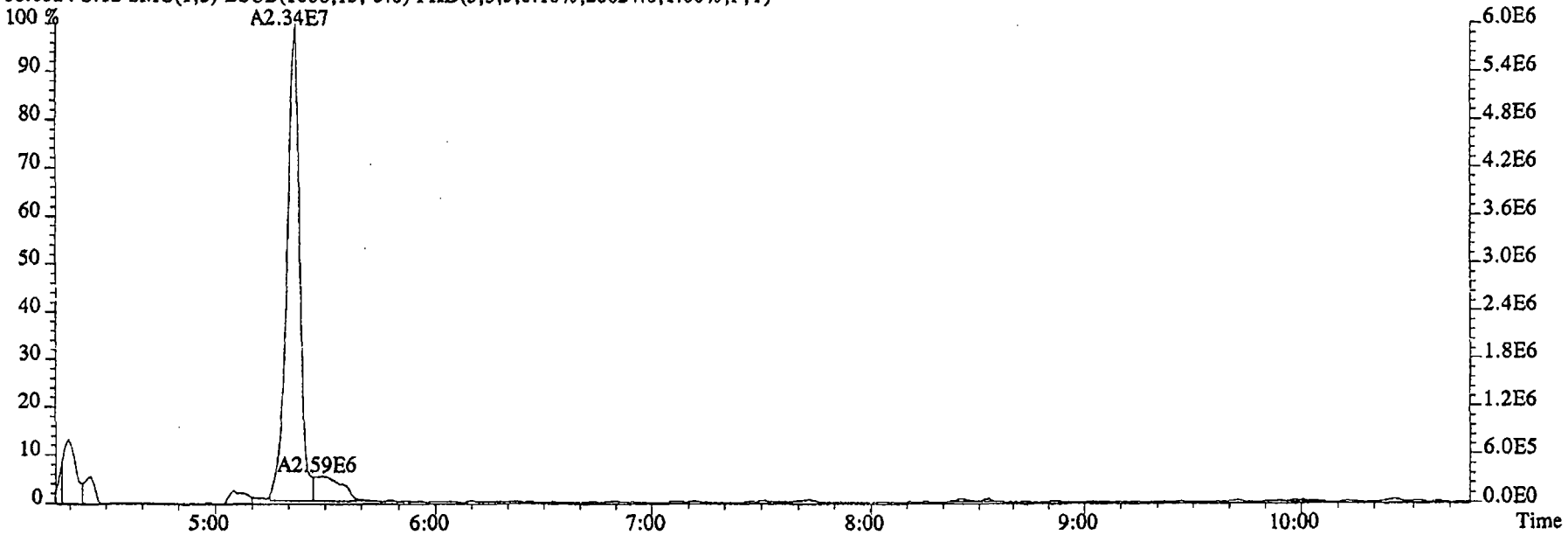
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	61779500		11:09	-	393.32	-	-	n
D8-1,4-Dioxane	115423		5:09	1.11	0.34	0.19	0.0	n
1,4-Dioxane	811272		5:05	1.15	6135.58	1486.60	-	n
D5-123-TriChloroPropane	71660800		10:05	4.65	49.87	0.07	49.9	n
1,2,3-TriChloroPropane	29362900		10:09	0.38	107.69 ✓	1.01	-	n
1,2,3-TriChloroPropane	84710400		10:09	-	111.88	-	-	n
D6-NDMA	12076700		10:15	2.55	15.35	0.10	15.3 ¥	n
NDMA	13691100		10:15	0.98	115.27 ✓	9.45	-	n
2-Chloropyridine	197989000		11:09	-	389.84	-	-	n

12-26-04
d

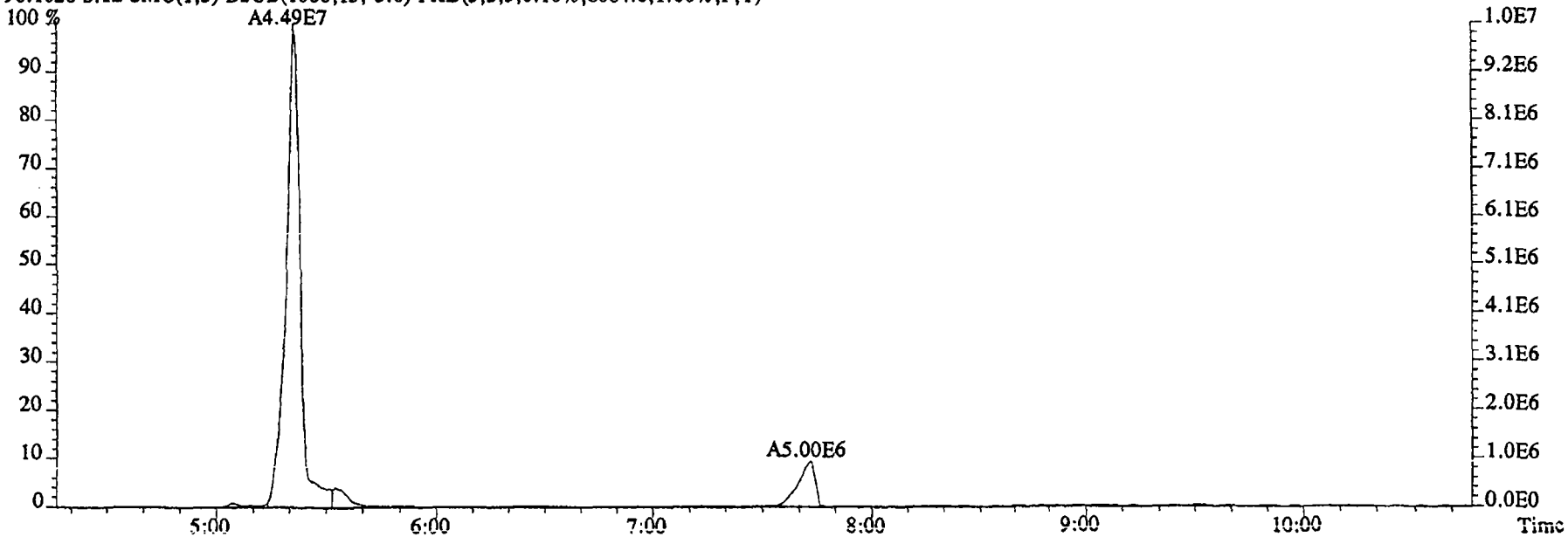
Run text: G0L0H-1-ACC Sample text: G0L0H-1-ACC :G4L070405-1LCS
Run #9 Filename: 09DE045SP S: 12 I: 1 Results: KAS
Acquired: 9-DEC-04 21:56:35 Processed: 10-DEC-04 09:14:08
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	61779500		11:09	-	393.32	-	-	n
D8-1,4-Dioxane	115423		5:09	1.11	0.34	0.19	0.0	n
1,4-Dioxane	811272		5:05	1.15	6135.58	1486.60	-	n
D5-123-TriChloroPropane	71660800		10:05	4.65	49.87	0.07	49.9	n
1,2,3-TriChloroPropane	29362900		10:09	0.38	107.69	1.01	-	n
1,2,3-TriChloroPropane	84710400		10:09	-	111.88	-	-	n
D6-NDMA	12076700		10:15	2.55	15.35	0.10	15.3	n
NDMA	13691100		10:15	0.98	115.27	9.45	-	n
2-Chloropyridine	197989000		11:09	-	389.84	-	-	n

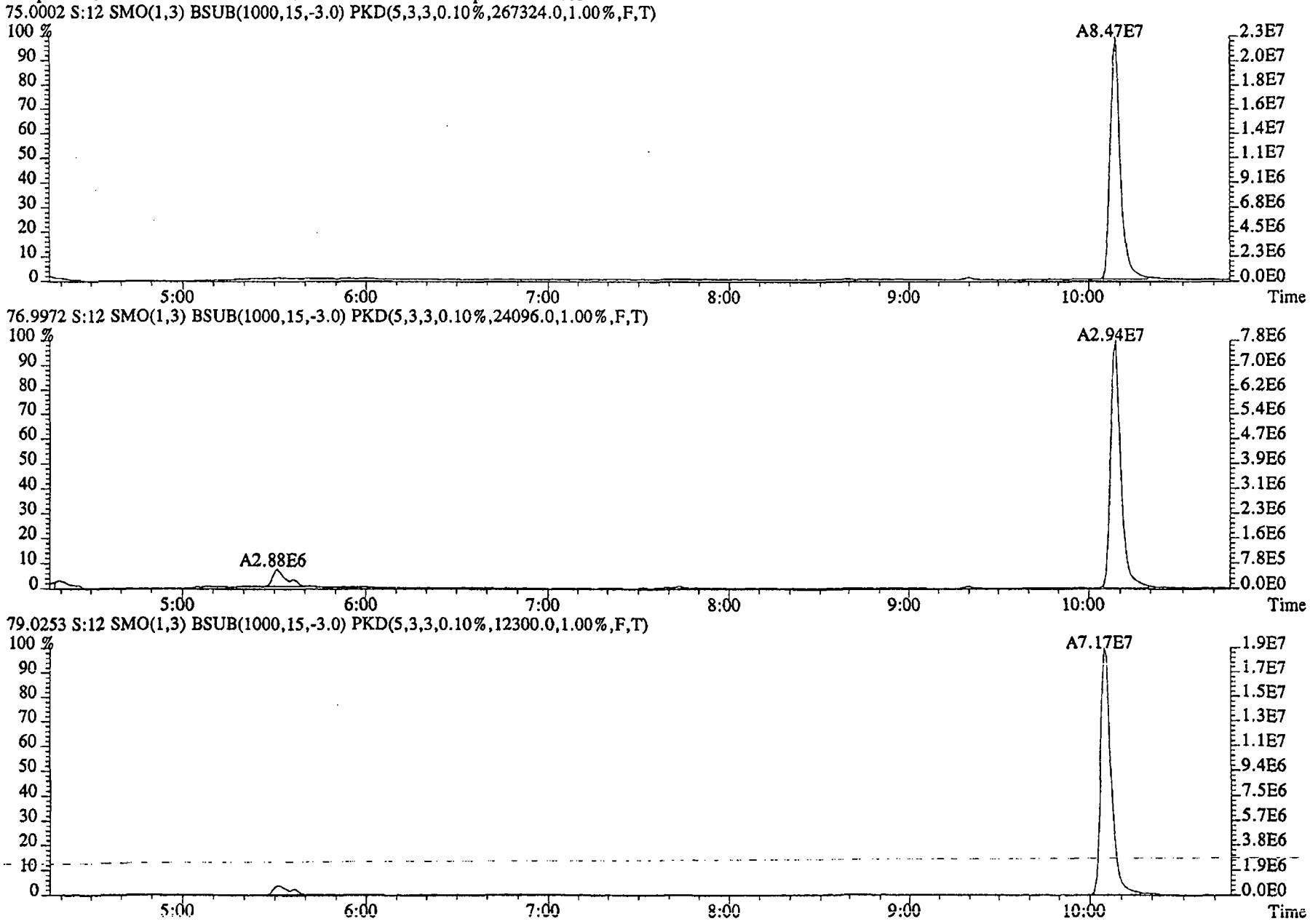
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA
88.0524 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20624.0,1.00%,F,T)



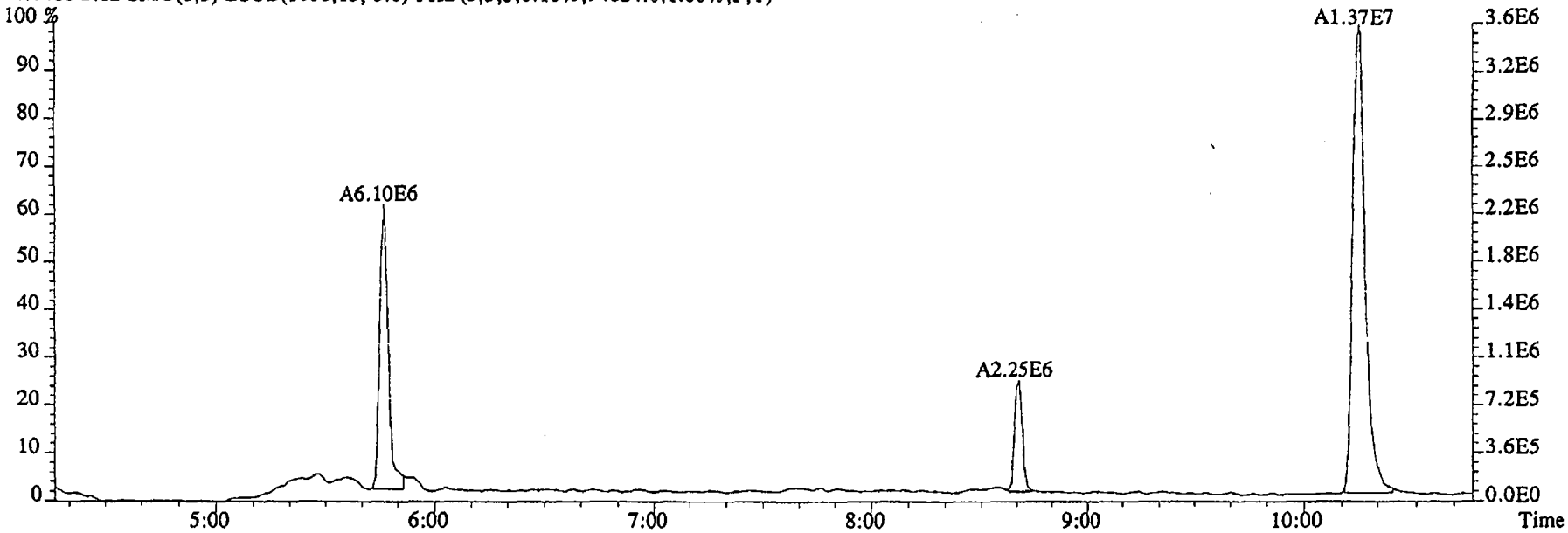
96.1026 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8064.0,1.00%,F,T)



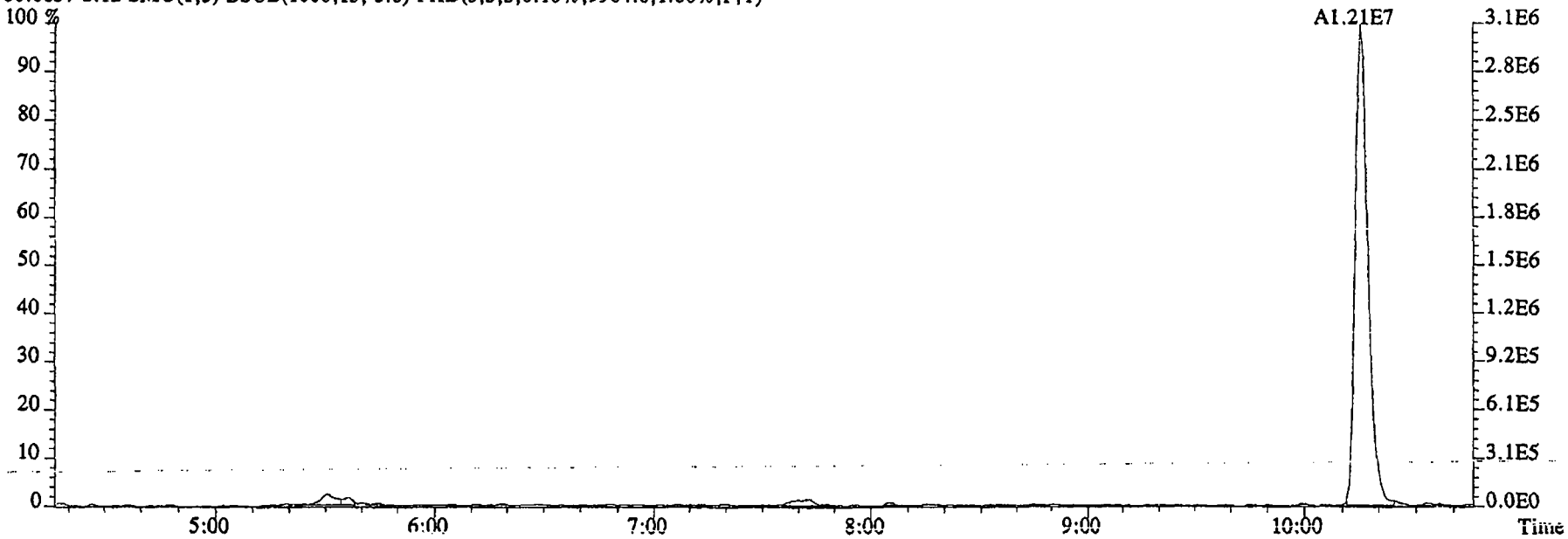
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA



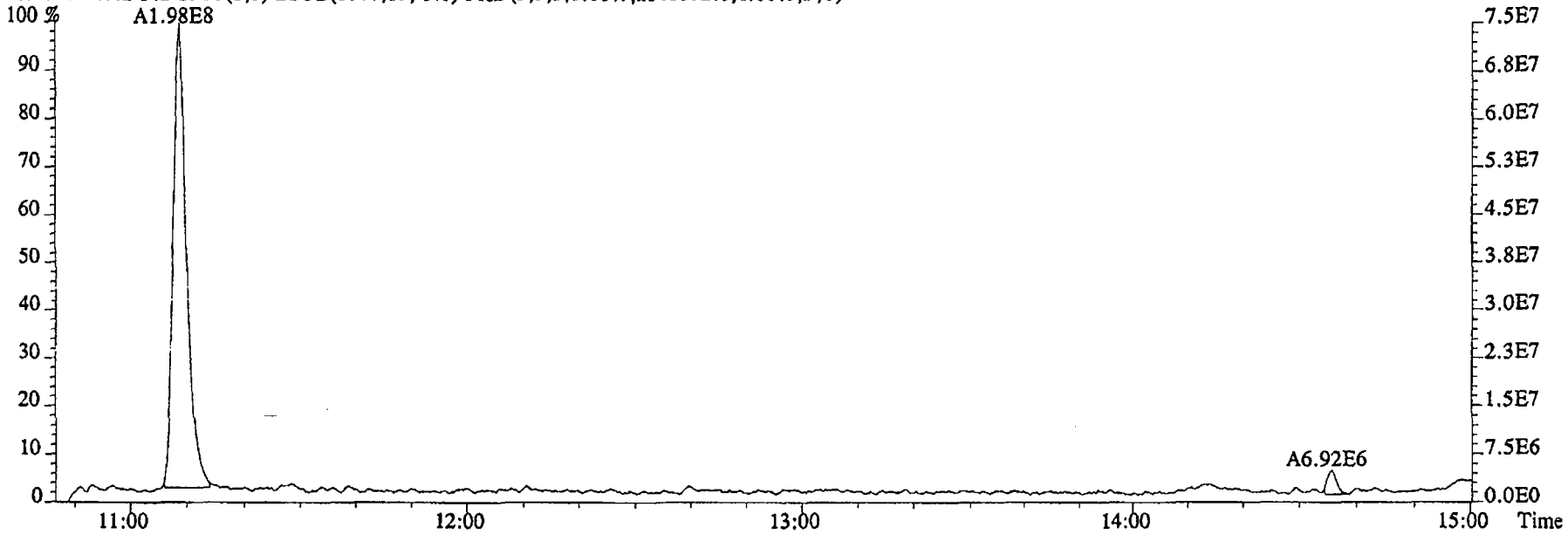
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA
74.0480 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,94824.0,1.00%,F,T)



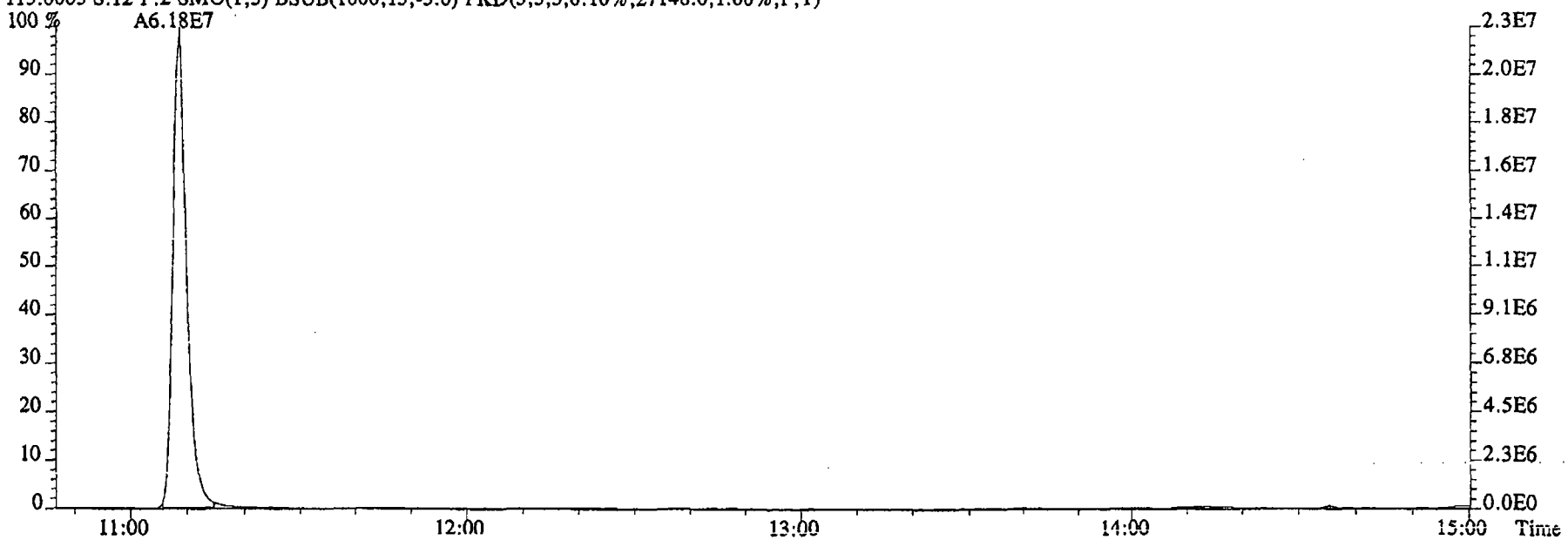
80.0857 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9904.0,1.00%,F,T)



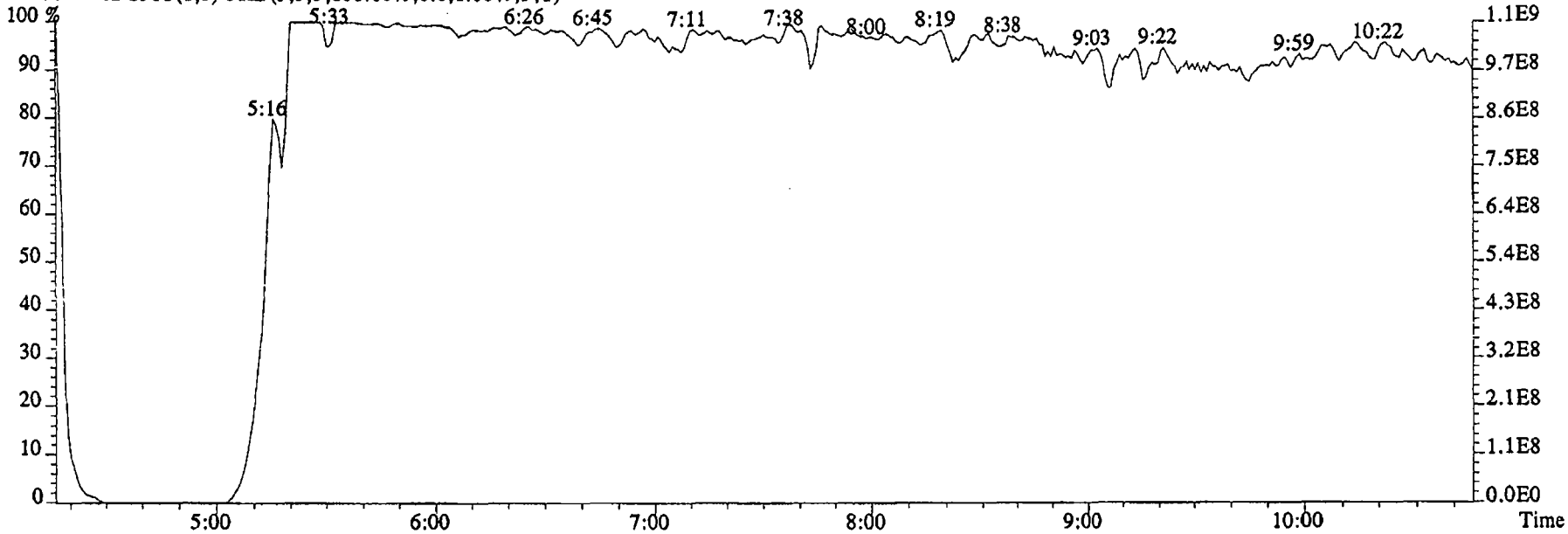
File:09DE045SP #1-591 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA
113.0032 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2303592.0,1.00%,F,T)



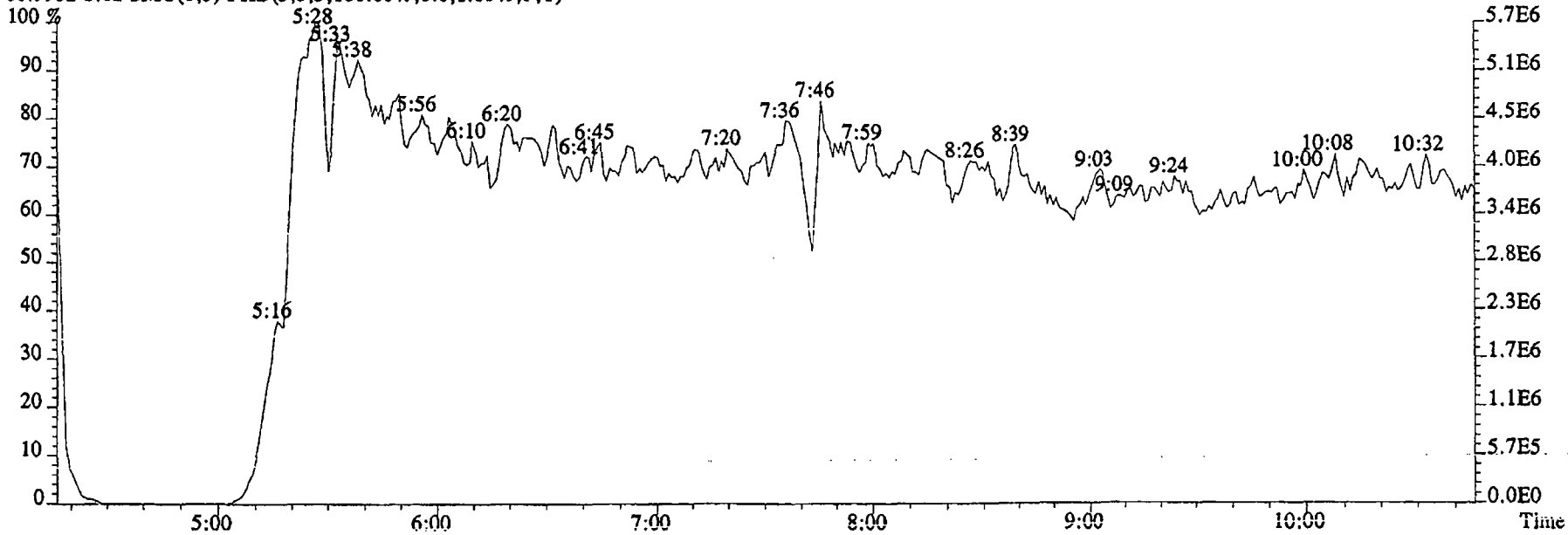
115.0003 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27148.0,1.00%,F,T)



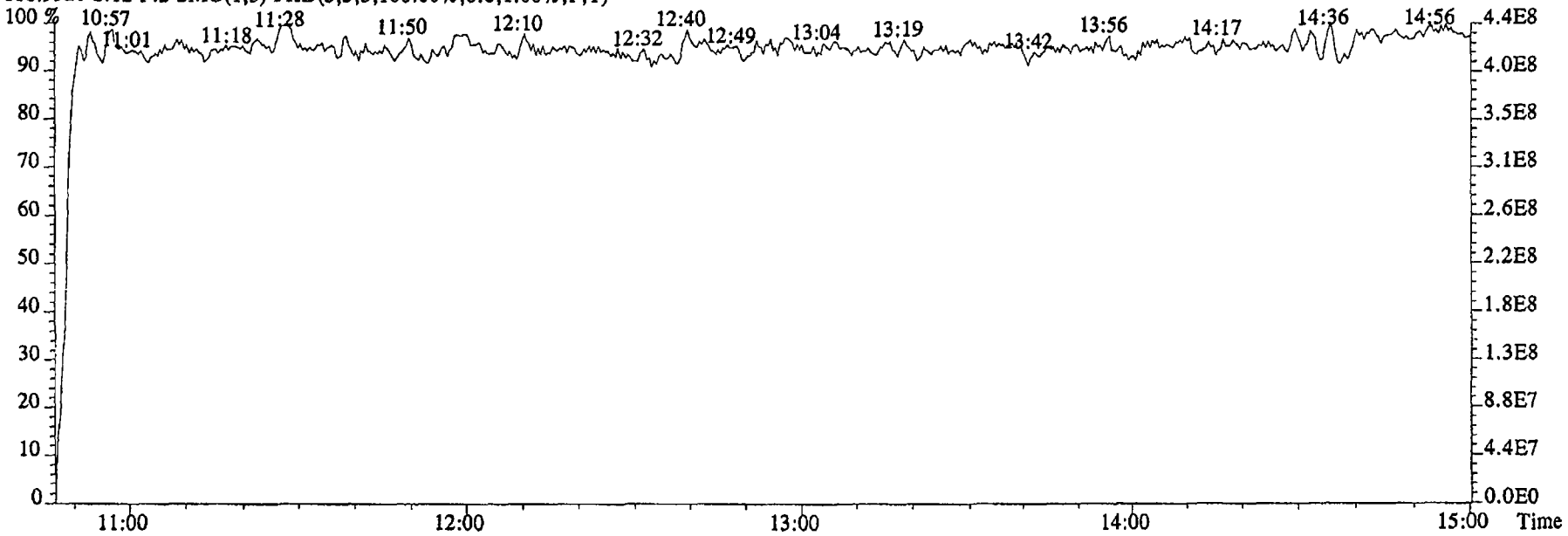
File:09DE045SP #1-480 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA
68.9952 S:12 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



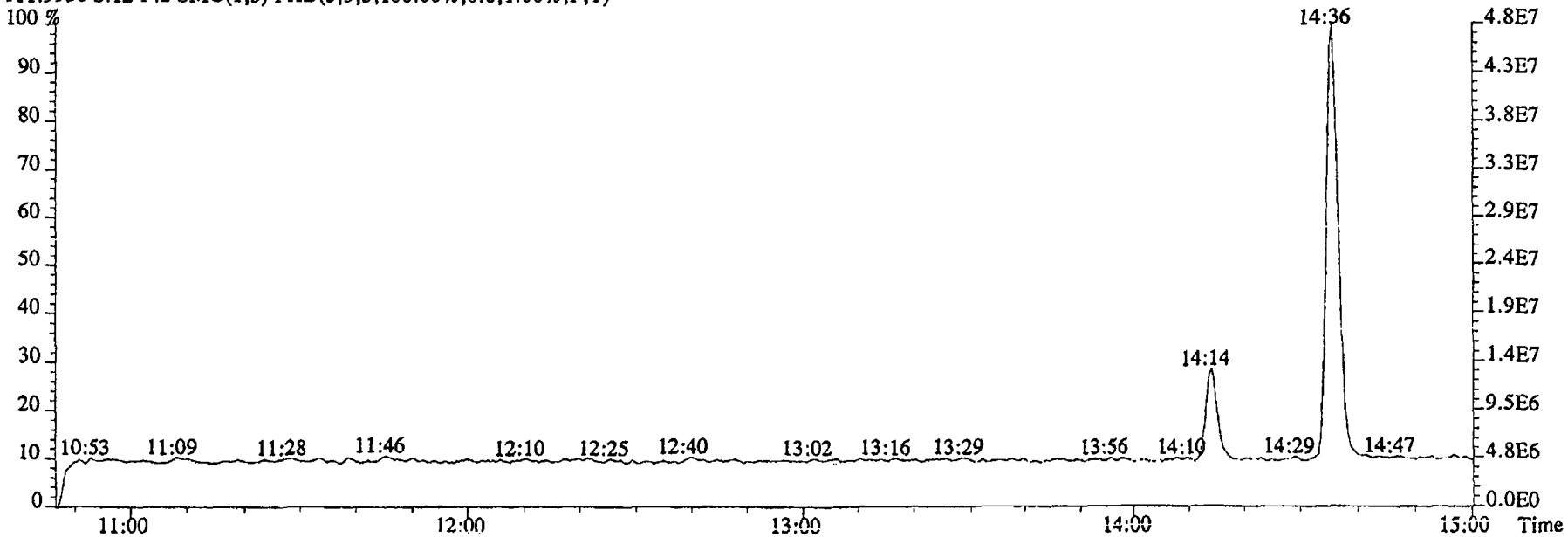
80.9952 S:12 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-591 Acq: 9-DEC-2004 21:56:35 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0L0H-1-ACC :G4L070405-1LCS Exp:NDMAVOA
118.9920 S:12 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:12 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GT8-1-AC Sample text: G0GT8-1-AC :G4L070405-1
Run #10 Filename: 09DE045SP S: 13 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 22:17:00 Processed: 10-DEC-04 09:14:08
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.934 L

Name	Resp	RA	RT	RRF	Conc	RL	EDL	Rec	M
2-Chloropyridine	38663800		11:07	-	263.55		-	-	n
D8-1,4-Dioxane	25626300		5:06	1.11	127.37		0.27	11.9	n
1,4-Dioxane	542881000		5:07	1.15	19799.47		12.09	-	n
D5-123-TriChloroPropane	41698700		10:03	4.65	49.65		0.11	46.4	n
1,2,3-TriChloroPropane	80792		10:06	0.38	~~0.55~~	<5.0	0.61	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	7548500		10:13	2.55	16.41		0.10	15.3 *	n
NDMA	*		NotFnd	0.98	*	<2.0	~~.747~~ 1.56	-	n
2-Chloropyridine	123340000		11:07	-	260.02		-	-	n

12-20-04
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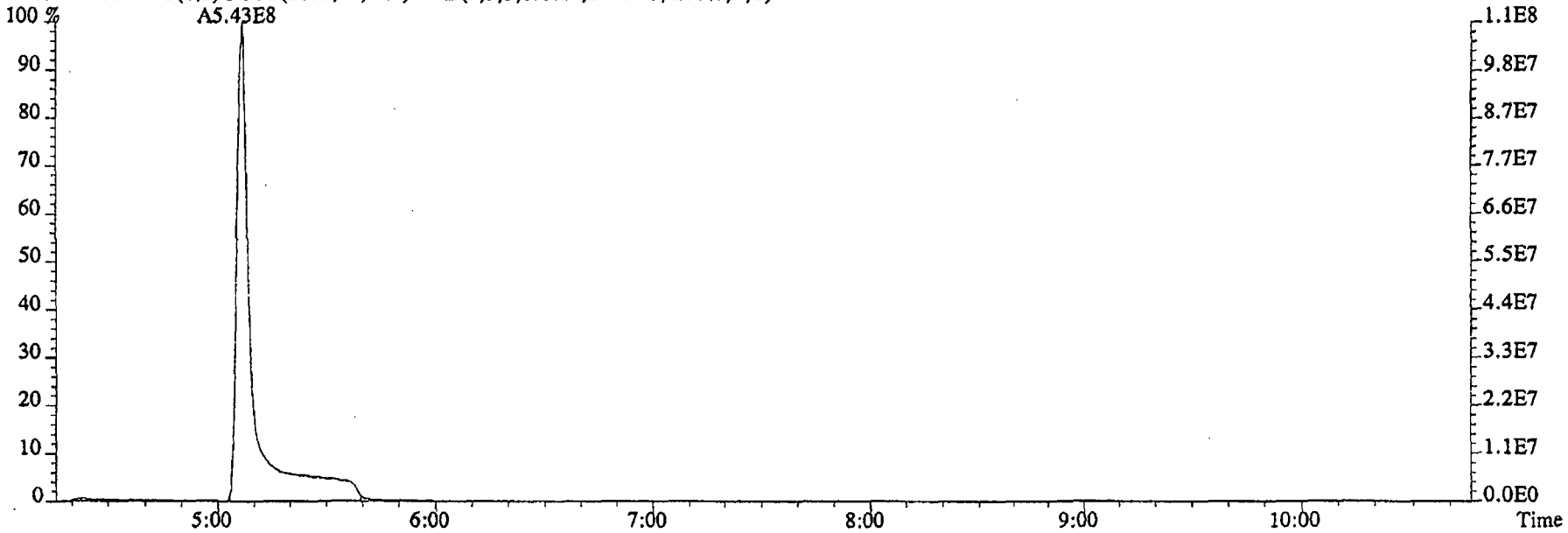
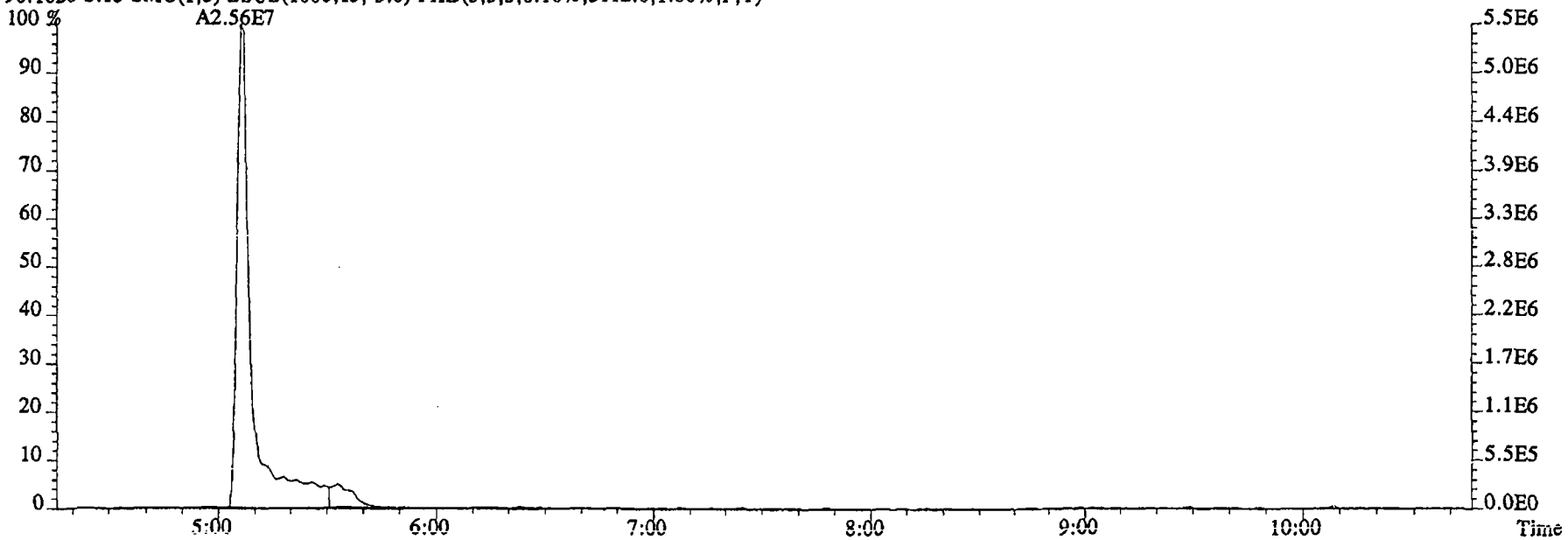
Run text: G0GT8-1-AC Sample text: G0GT8-1-AC :G4L070405-1
Run #10 Filename: 09DE045SP S: 13 I: 1 Results: KAS
Acquired: 9-DEC-04 22:17:00 Processed: 10-DEC-04 09:14:08
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.934 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	38663800		11:07	-	263.55	-	-	n
D8-1,4-Dioxane	25626300		5:06	1.11	127.37	0.27	11.9	n
1,4-Dioxane	542881000		5:07	1.15	19799.47	12.09	-	n
D5-123-TriChloroPropane	41698700		10:03	4.65	49.65	0.11	46.4	n
1,2,3-TriChloroPropane	80792		10:06	0.38	0.55	0.61	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	7548500		10:13	2.55	16.41	0.10	15.3	n
NDMA	*		NotFnd	0.98	*	7.47	-	n
2-Chloropyridine	123340000		11:07	-	260.02	-	-	n

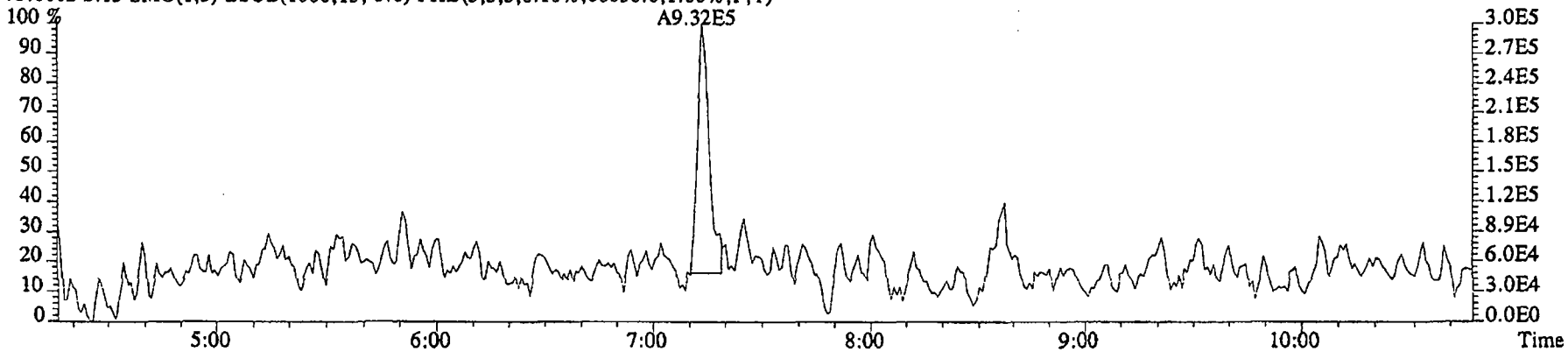
File:09DE045SP #1-481 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
88.0524 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23704.0,1.00%,F,T)



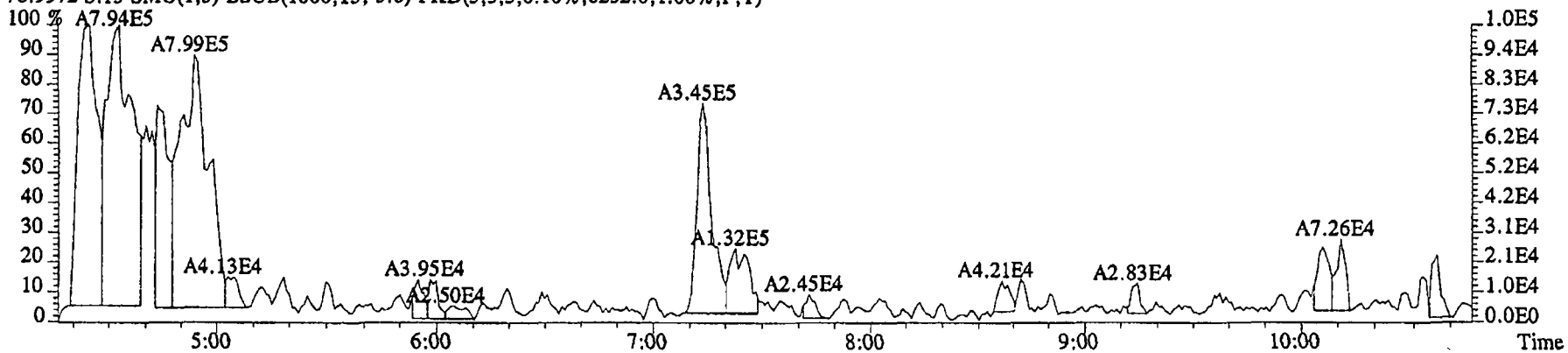
96.1026 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5112.0,1.00%,F,T)



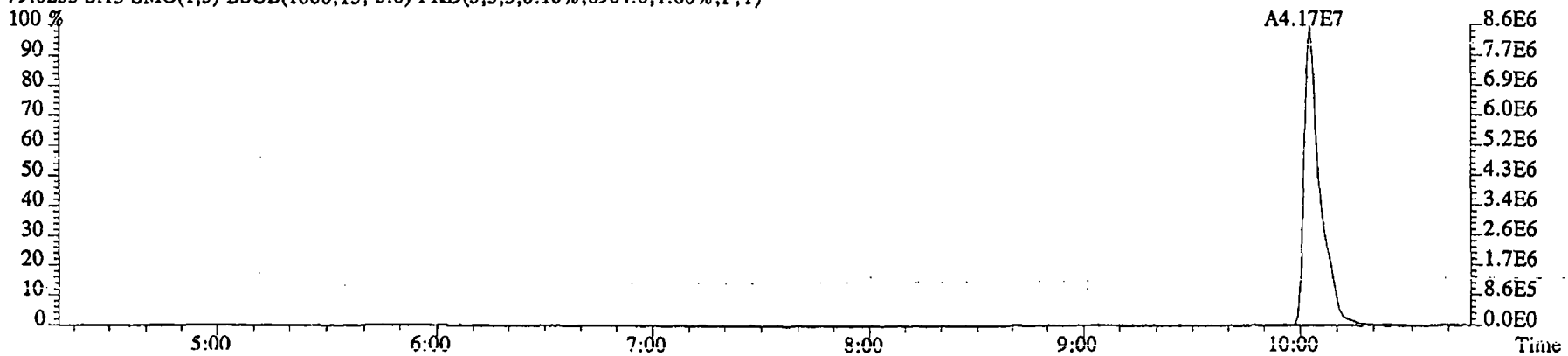
File:09DE045SP #1-481 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
75.0002 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68836.0,1.00%,F,T)



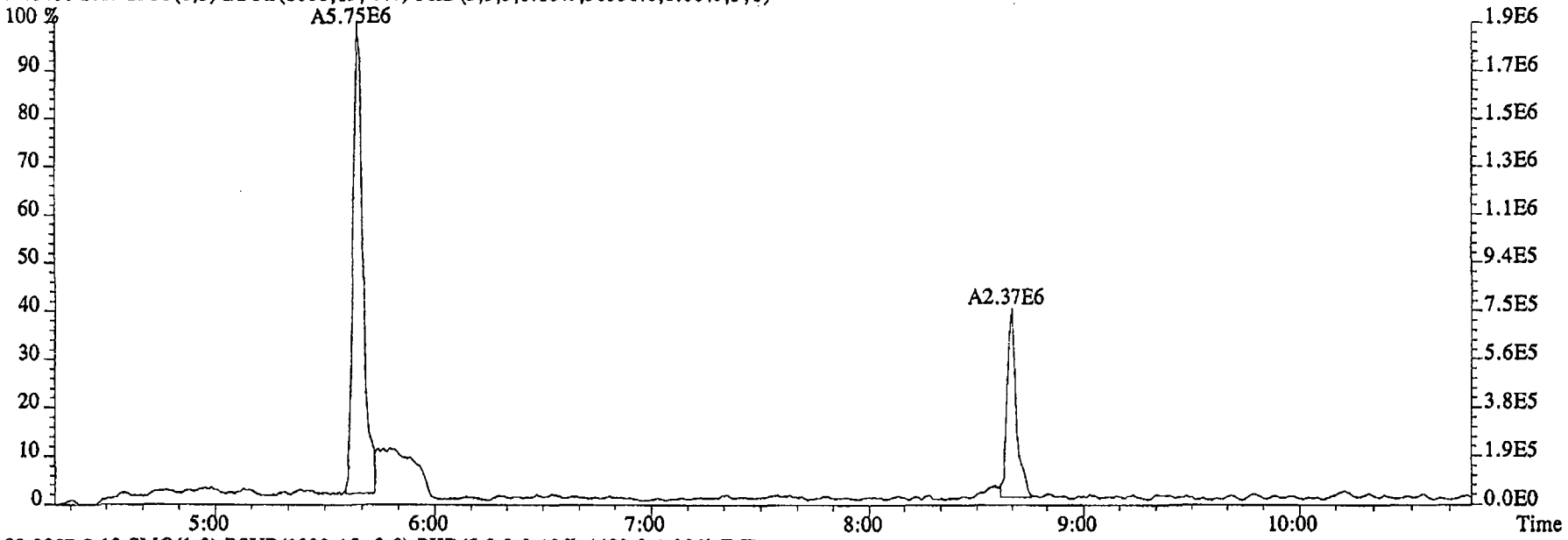
76.9972 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6232.0,1.00%,F,T)



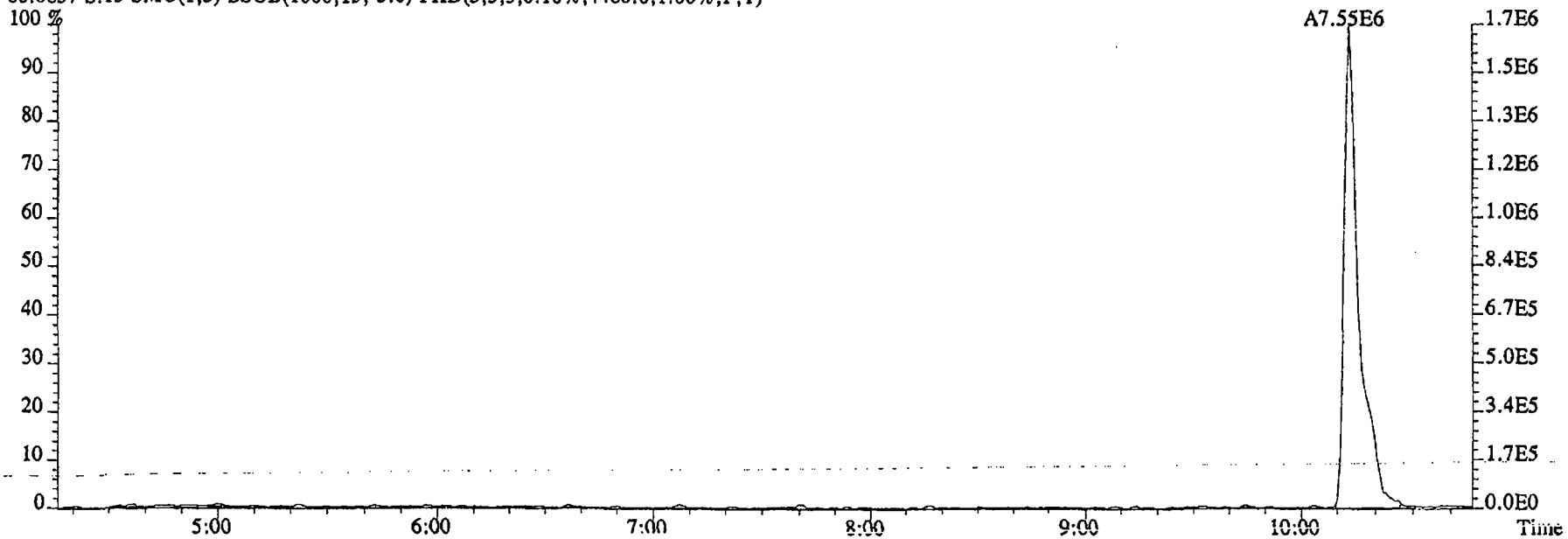
79.0253 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8904.0,1.00%,F,T)



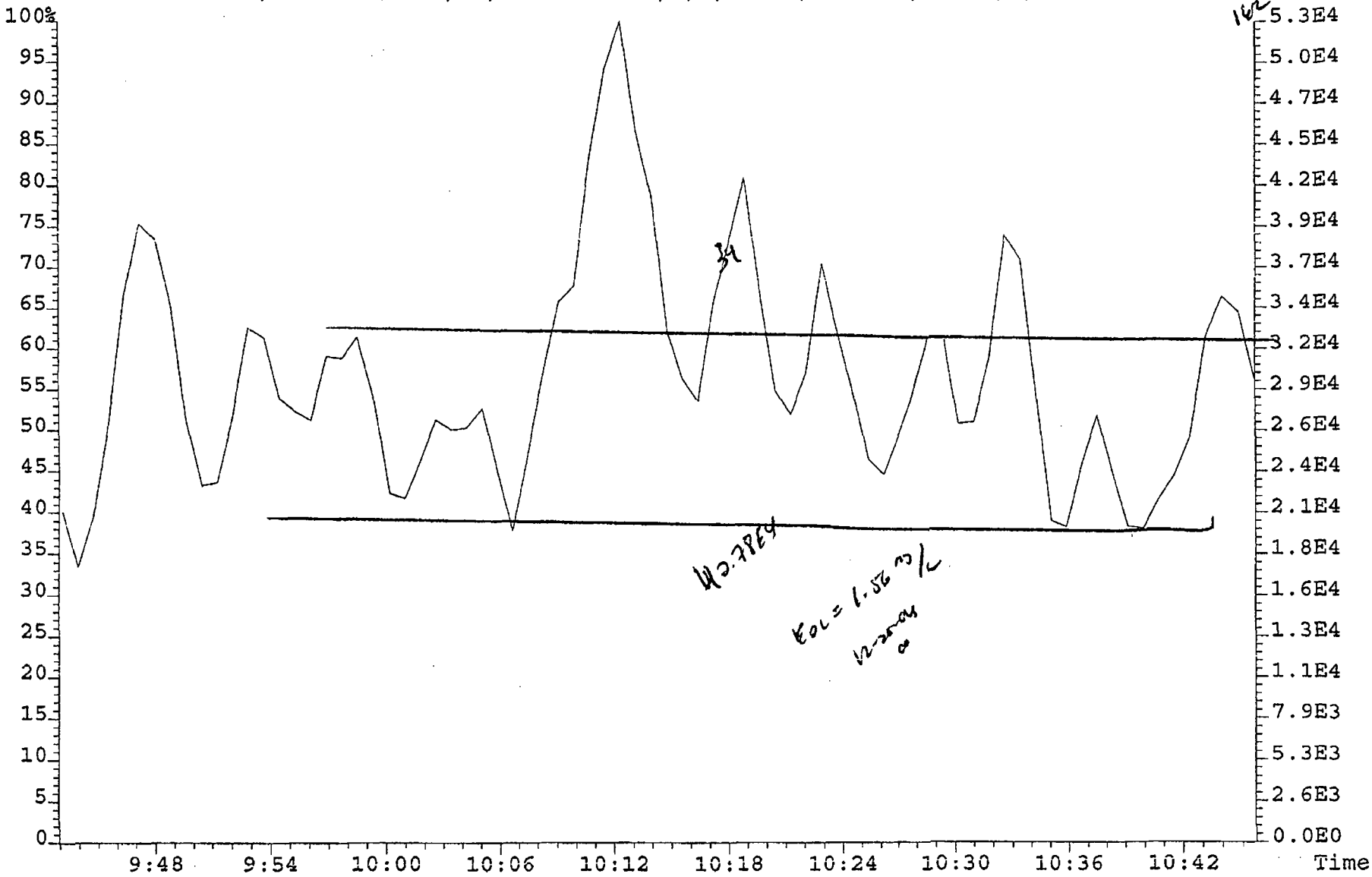
File:09DE045SP #1-481 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
74.0480 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,38356.0,1.00%,F,T)



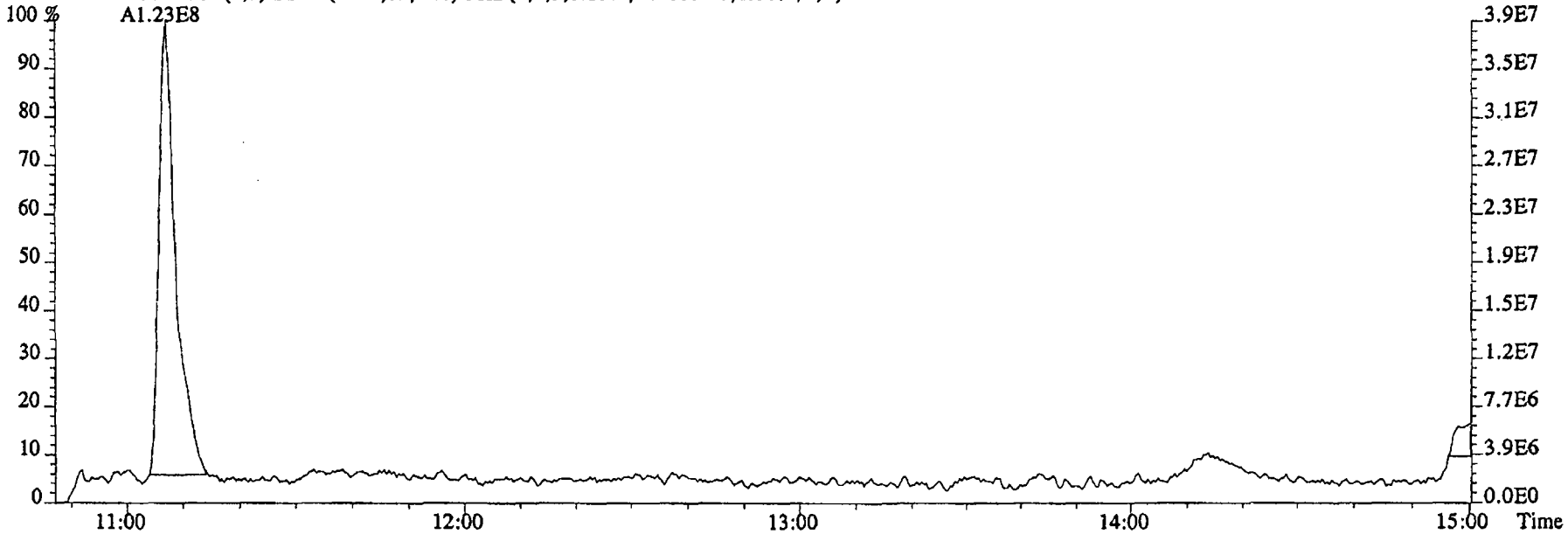
80.0857 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4480.0,1.00%,F,T)



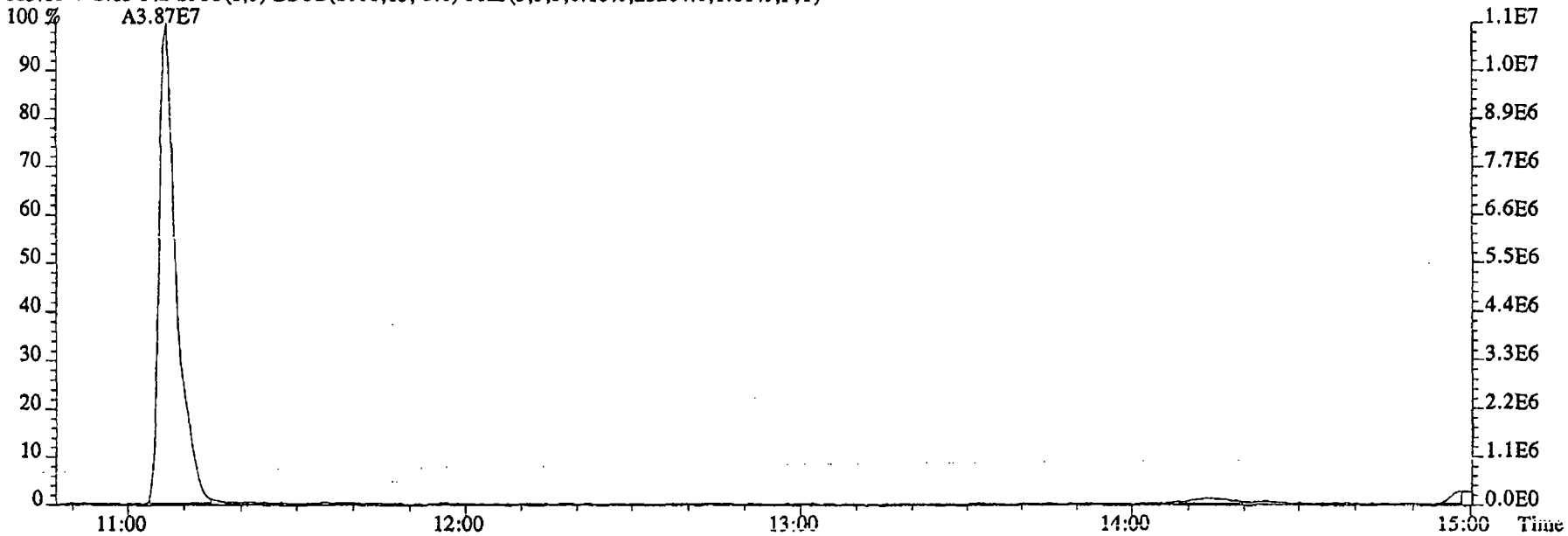
File:09DE045SP #1-481 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
74.0480 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,38356.0,1.00%,F,T)



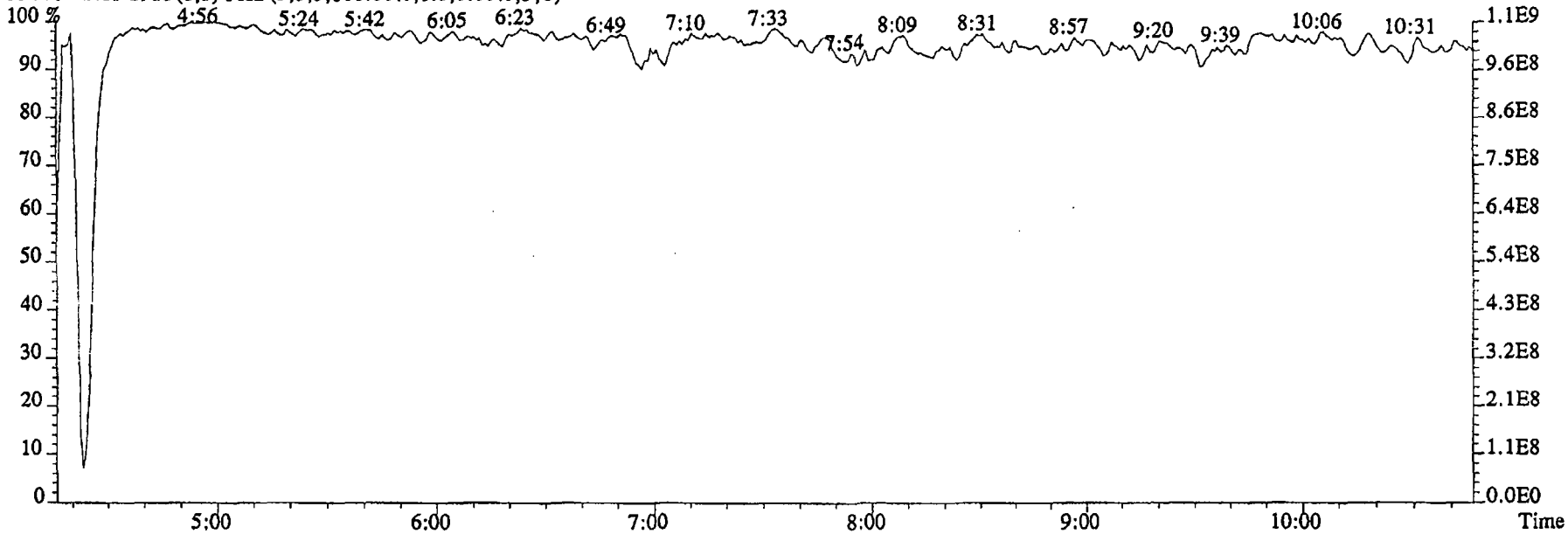
File:09DE045SP #1-590 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
113.0032 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416884.0,1.00%,F,T)



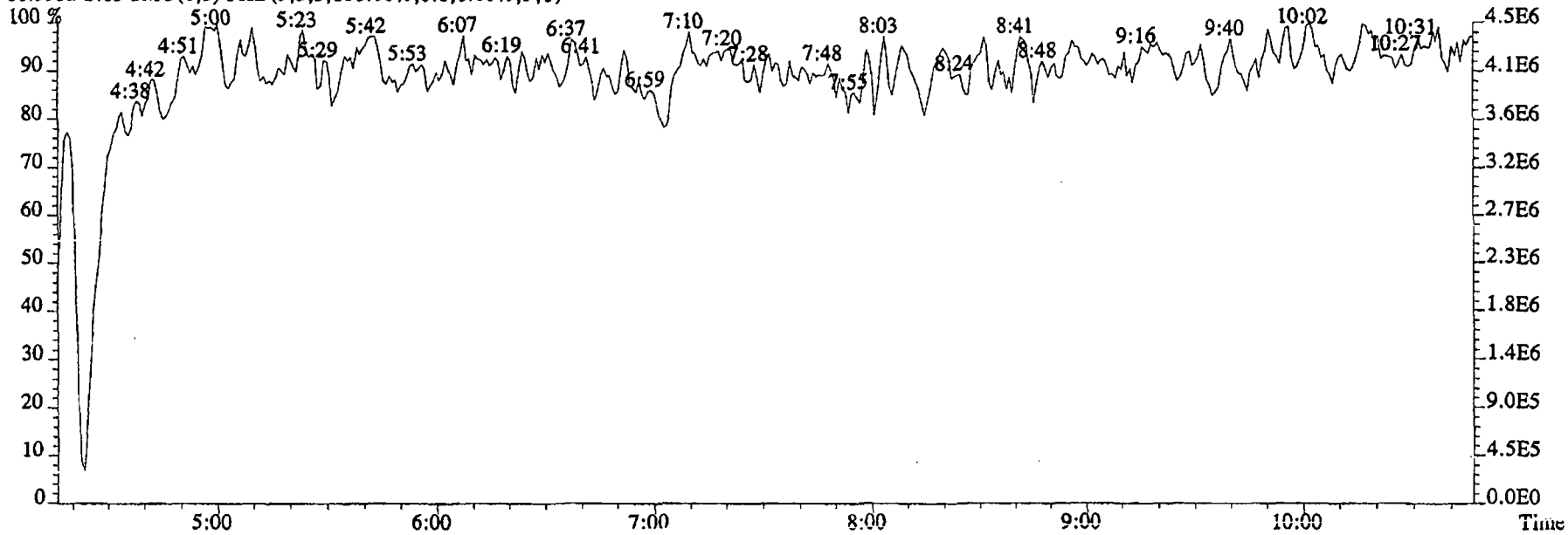
115.0003 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23264.0,1.00%,F,T)



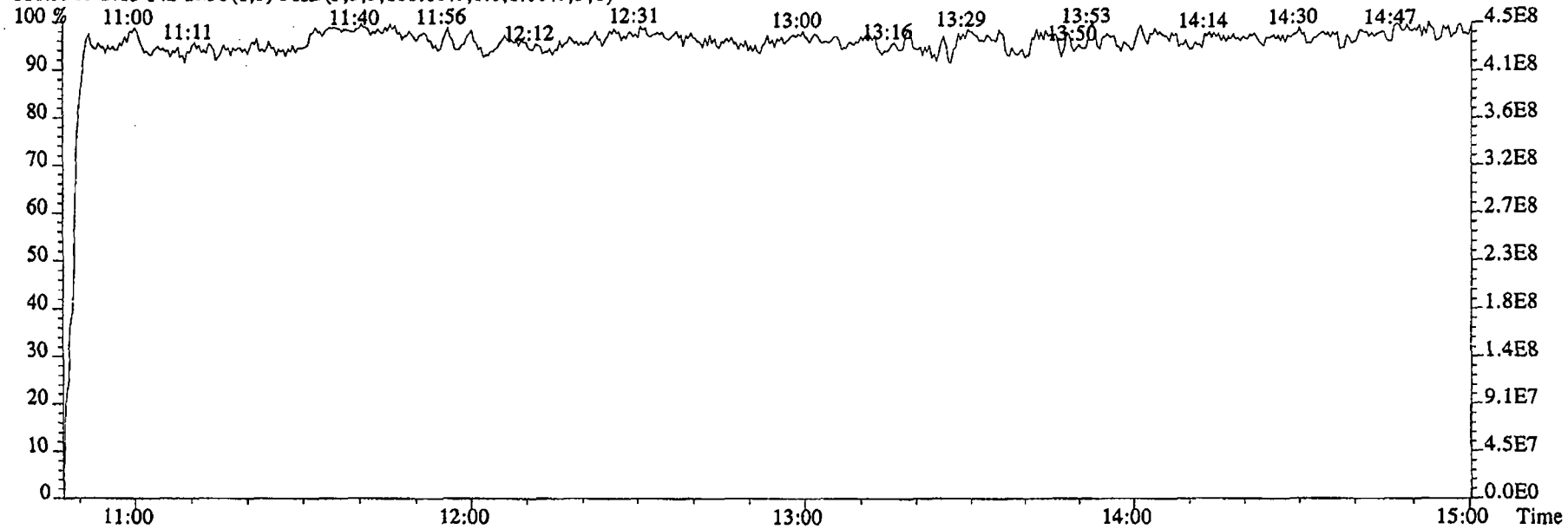
File:09DE045SP #1-481 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
68.9952 S:13 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



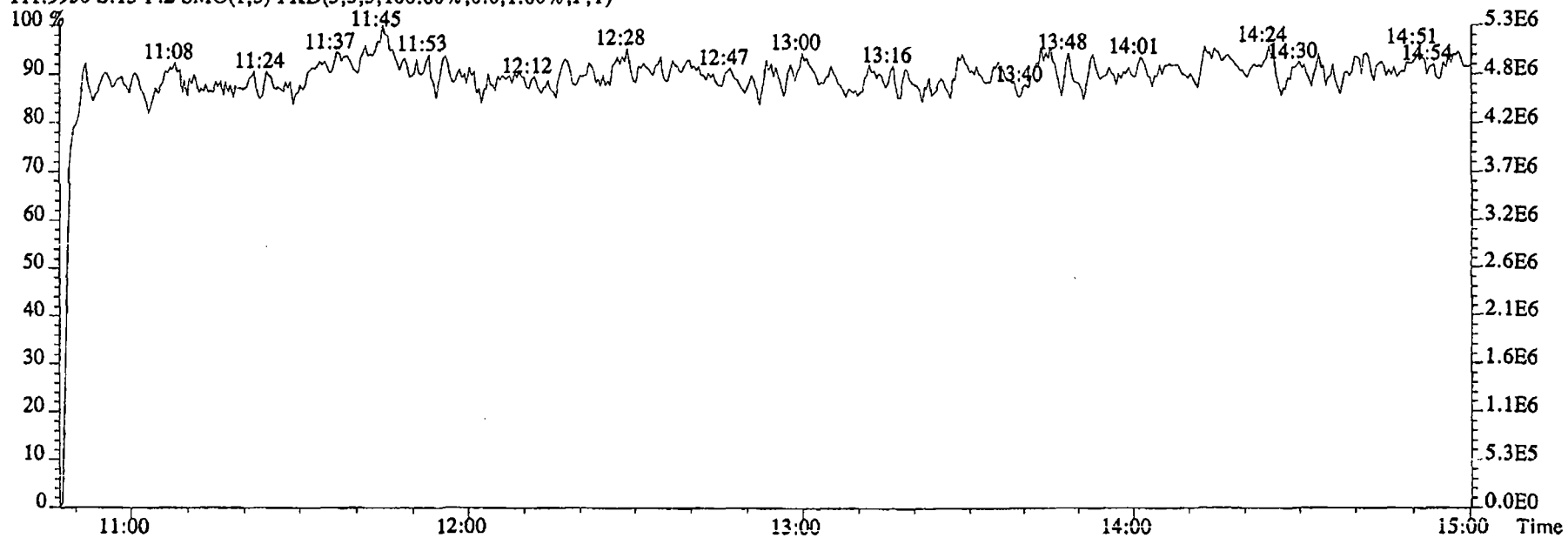
80.9952 S:13 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-590 Acq: 9-DEC-2004 22:17:00 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0GT8-1-AC :G4L070405-1 Exp:NDMAVOA
118.9920 S:13 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:13 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GT9-1-AC Sample text: G0GT9-1-AC :G4L070405-2
Run #11 Filename: 09DE045SP S: 14 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 22:37:26 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.994 L

Name	Resp	RA	RT	RRF	Conc	RL	EDL	Rec	M
2-Chloropyridine	52584700		11:08	-	336.81		-	-	n
D8-1,4-Dioxane	100351		5:05	1.11	0.34		0.23	0.0	n
1,4-Dioxane	8593780		5:02	1.15	75206.91		2311.82	-	n
D5-123-TriChloroPropane	56671700		10:04	4.65	46.62		0.13	46.3	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	<5.0	4.25	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	9926710		10:15	2.55	14.91		0.14	14.8	n
NDMA	175128		10:14	0.98	~~1.80~~	<2.0	~~18.33~~ 0.86	-	y
2-Chloropyridine	171842000		11:08	-	340.40		-	-	n

12-26-04

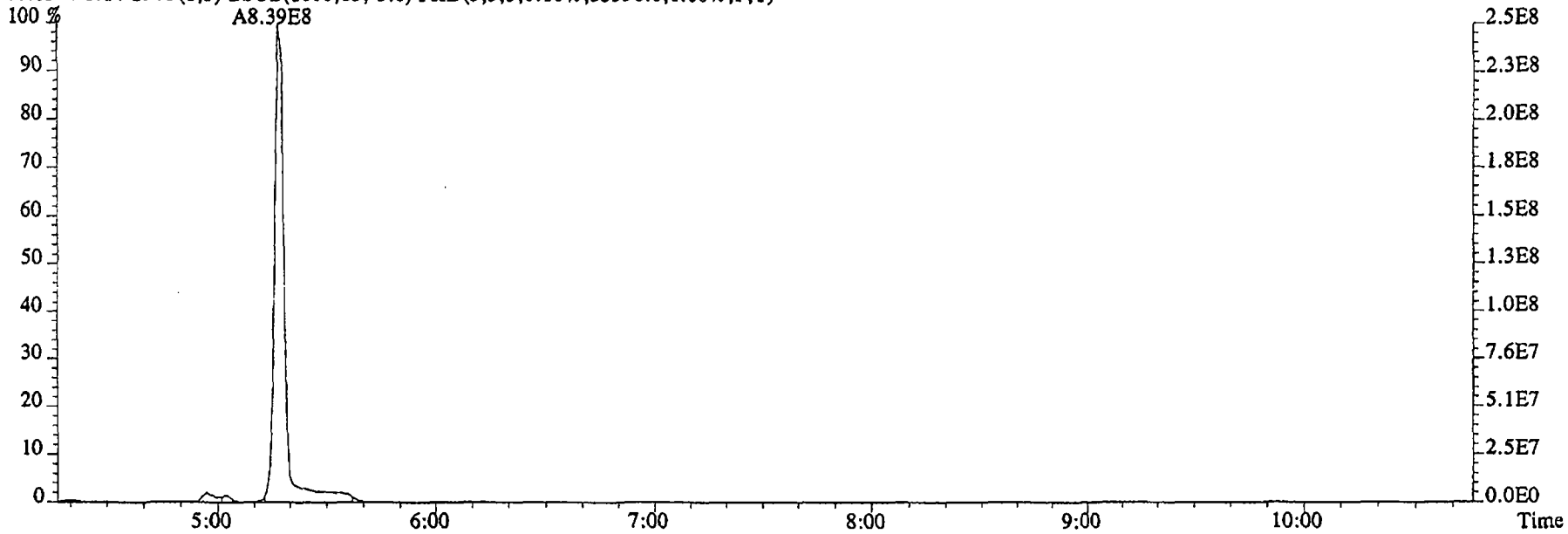
Run text: G0GT9-1-AC Sample text: G0GT9-1-AC :G4L070405-2
Run #11 Filename: 09DE045SP S: 14 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 22:37:26 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.994 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	52584700		11:08	-	336.81	-	-	n
D8-1,4-Dioxane	100351		5:05	1.11	0.34	0.23	0.0	n
1,4-Dioxane	8593780		5:02	1.15	75206.91	2311.82	-	n
D5-123-TriChloroPropane	56671700		10:04	4.65	46.62	0.13	46.3	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	4.25	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	9926710		10:15	2.55	14.91	0.14	14.8	n
NDMA	*		NotFnd	0.98	*	18.33	-	n
2-Chloropyridine	171842000		11:08	-	340.40	-	-	n

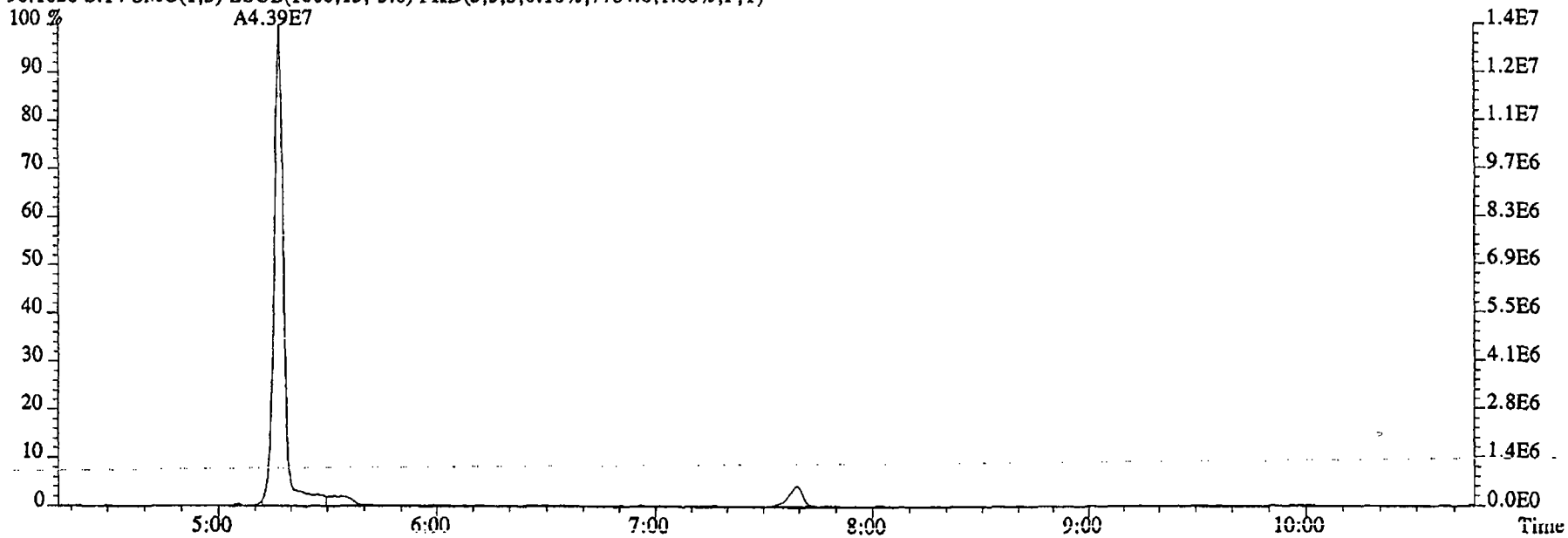
Run text: G0GT9-1-AC Sample text: G0GT9-1-AC :G4L070405-2
Run #11 Filename: 09DE045SP S: 14 I: 1 Results: KAS
Acquired: 9-DEC-04 22:37:26 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.994 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	52584700		11:08	-	336.81	-	-	n
D8-1,4-Dioxane	100351		5:05	1.11	0.34	0.23	0.0	n
1,4-Dioxane	8593780		5:02	1.15	75206.91	2311.82	-	n
D5-123-TriChloroPropane	56671700		10:04	4.65	46.62	0.13	46.3	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	4.25	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	9926710		10:15	2.55	14.91	0.14	14.8	n
NDMA	*		NotFnd	0.98	*	18.33	-	n
2-Chloropyridine	171842000		11:08	-	340.40	-	-	n

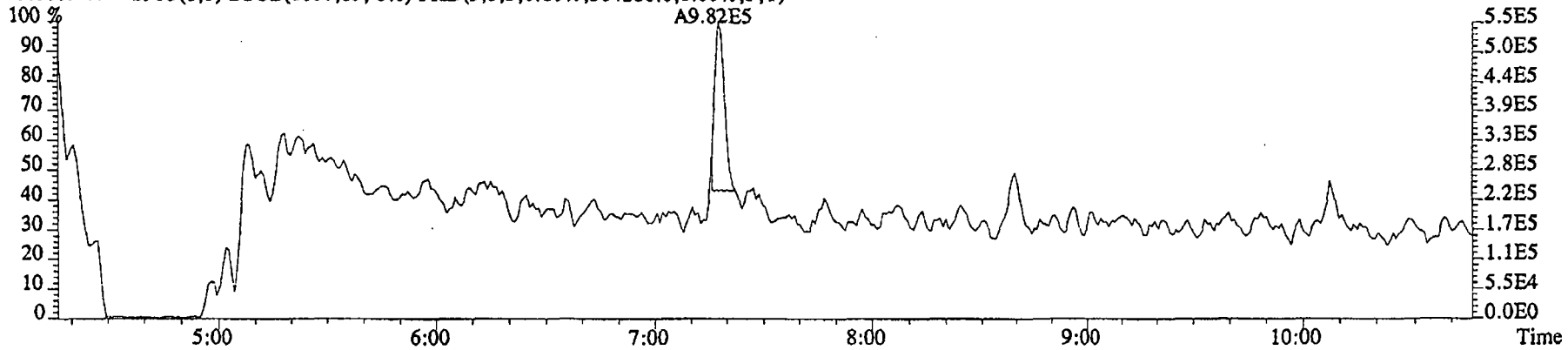
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
88.0524 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33356.0,1.00%,F,T)



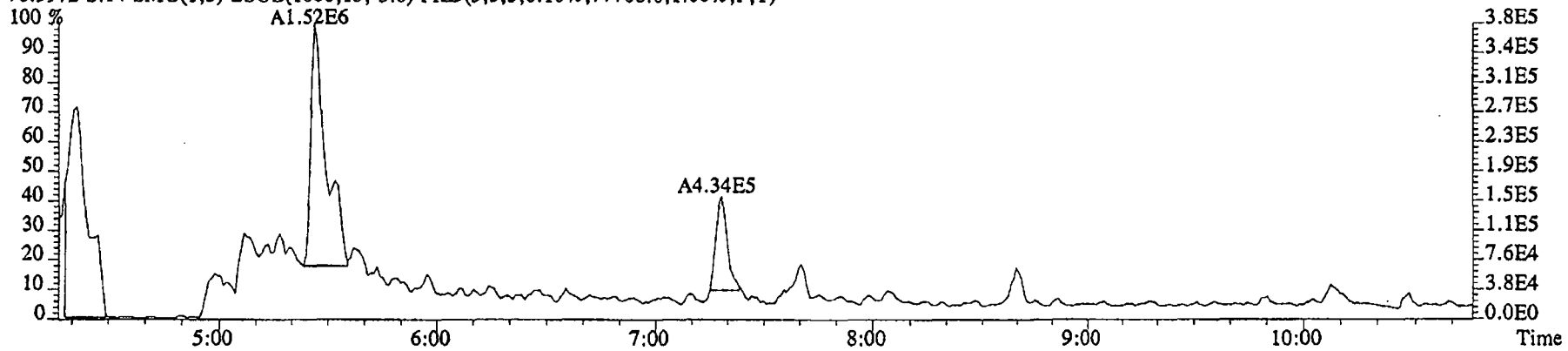
96.1026 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7764.0,1.00%,F,T)



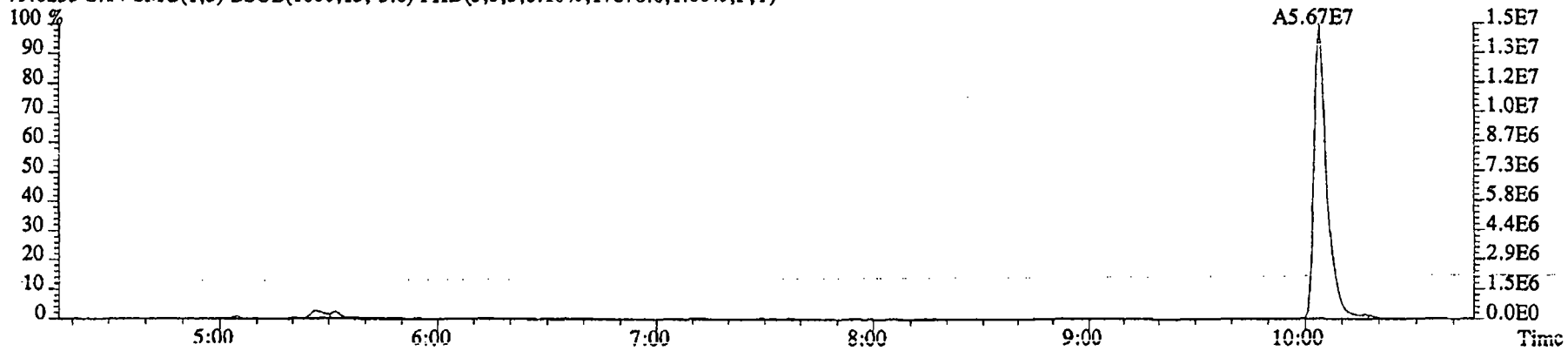
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
75.0002 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,304280.0,1.00%,F,T)



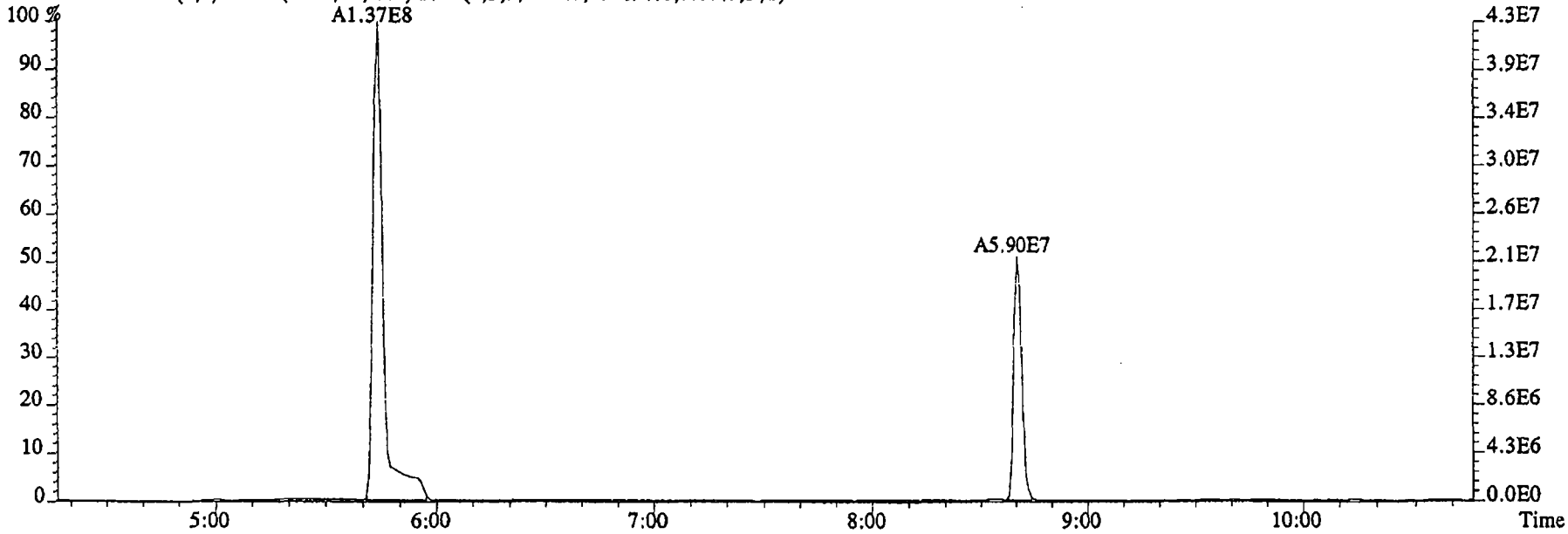
76.9972 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,77708.0,1.00%,F,T)



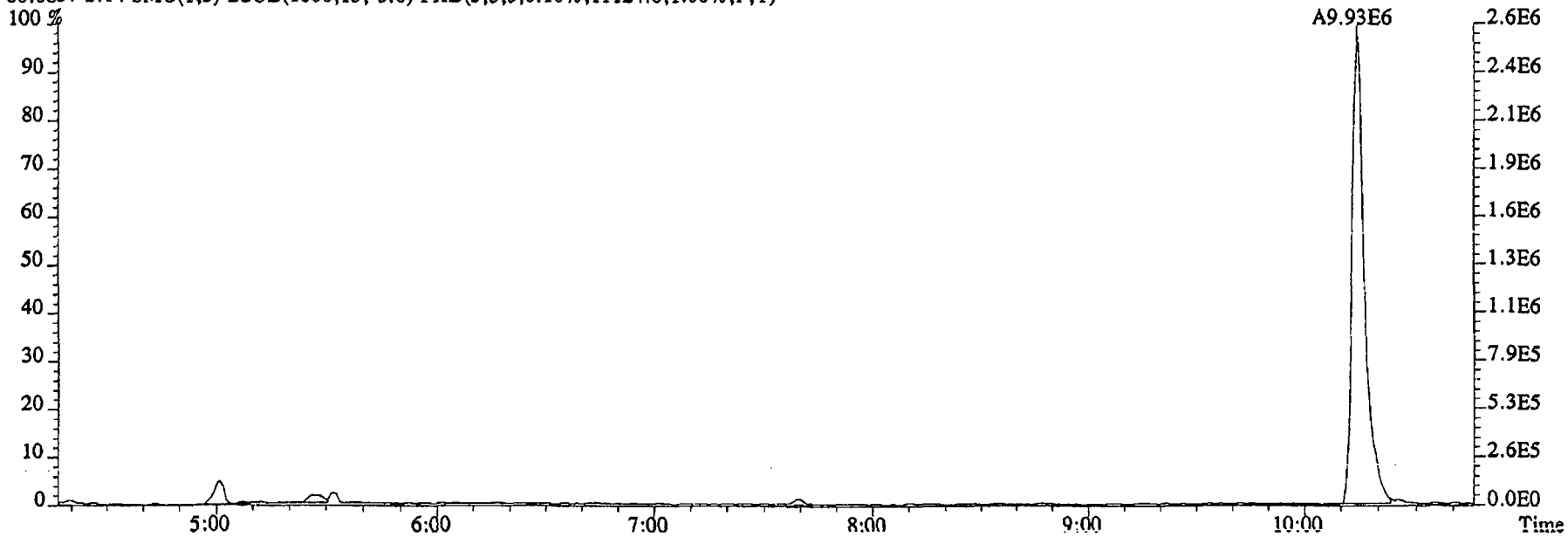
79.0253 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17876.0,1.00%,F,T)



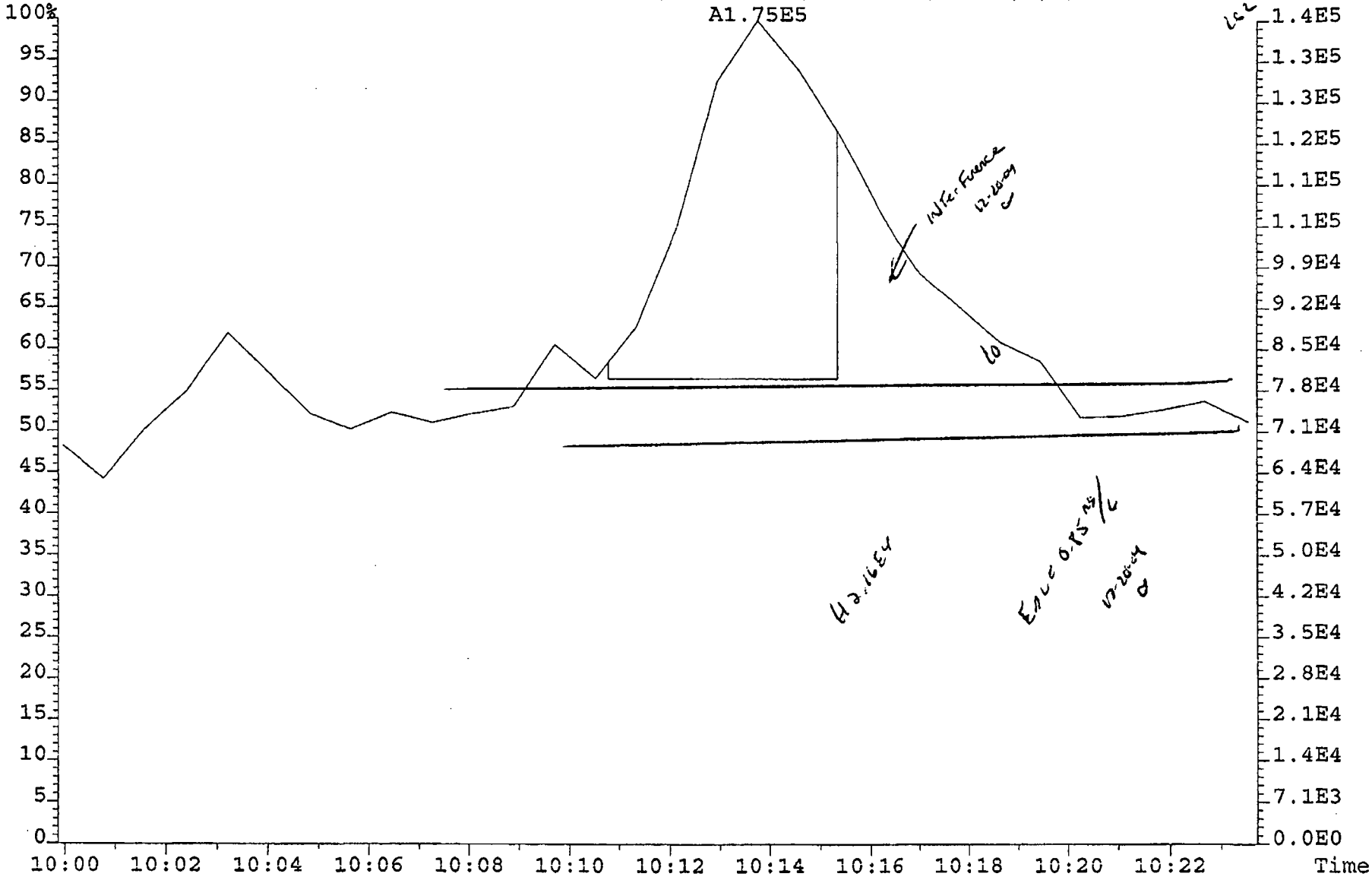
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
74.0480 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,157696.0,1.00%,F,T)



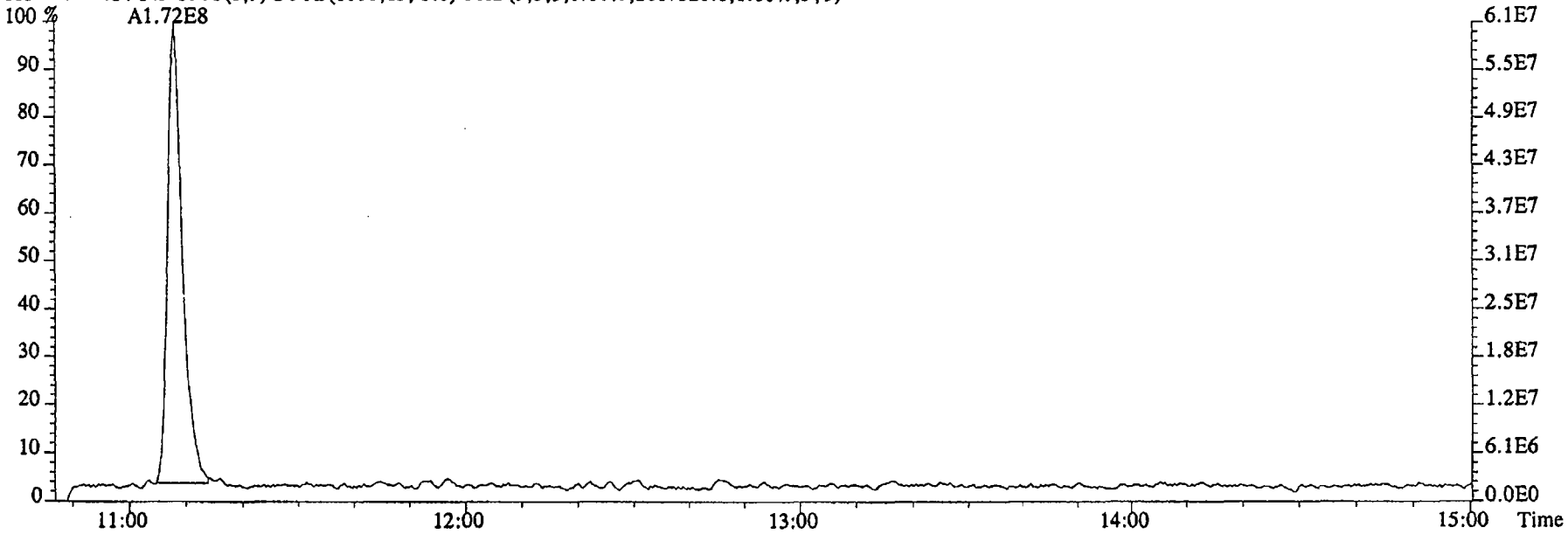
80.0857 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11124.0,1.00%,F,T)



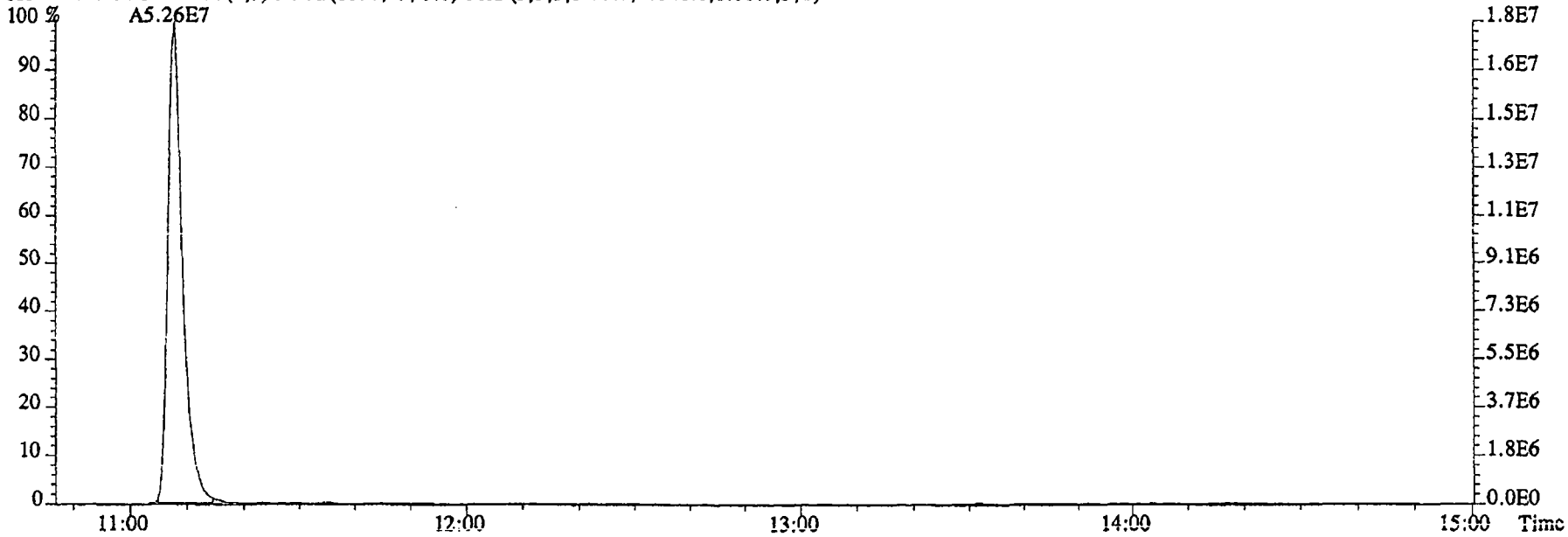
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
74.0480 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,157696.0,1.00%,F,T)



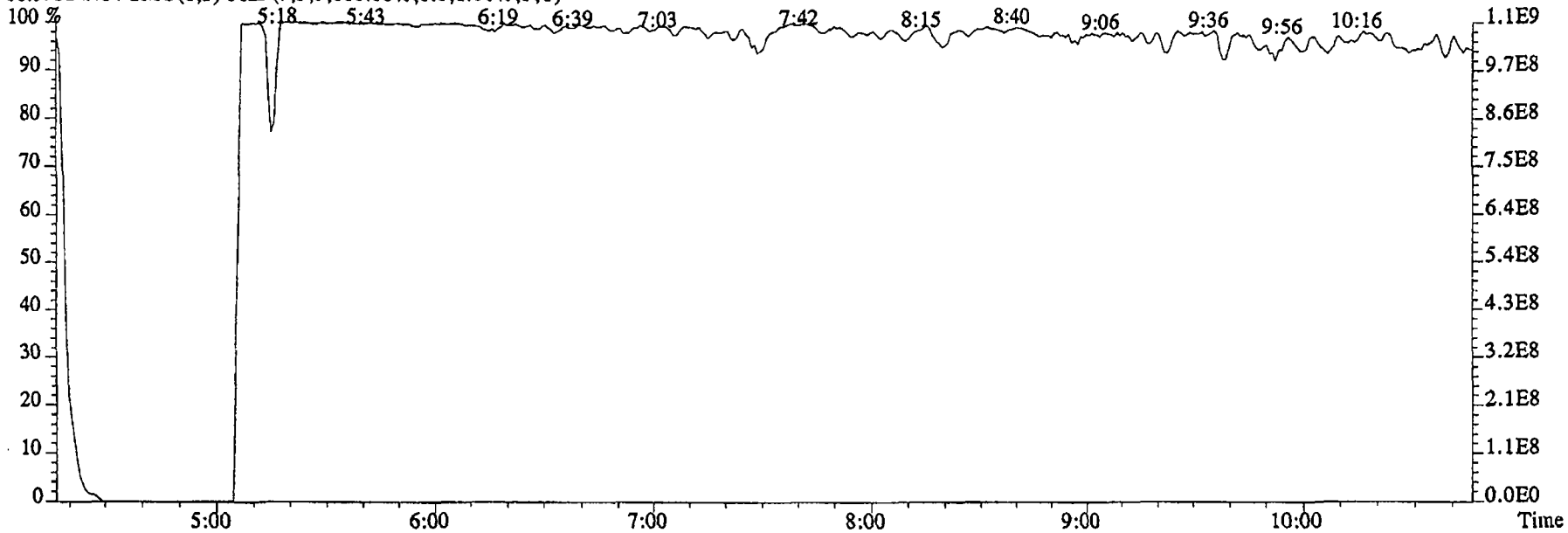
File:09DE045SP #1-591 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
113.0032 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2617320.0,1.00%,F,T)



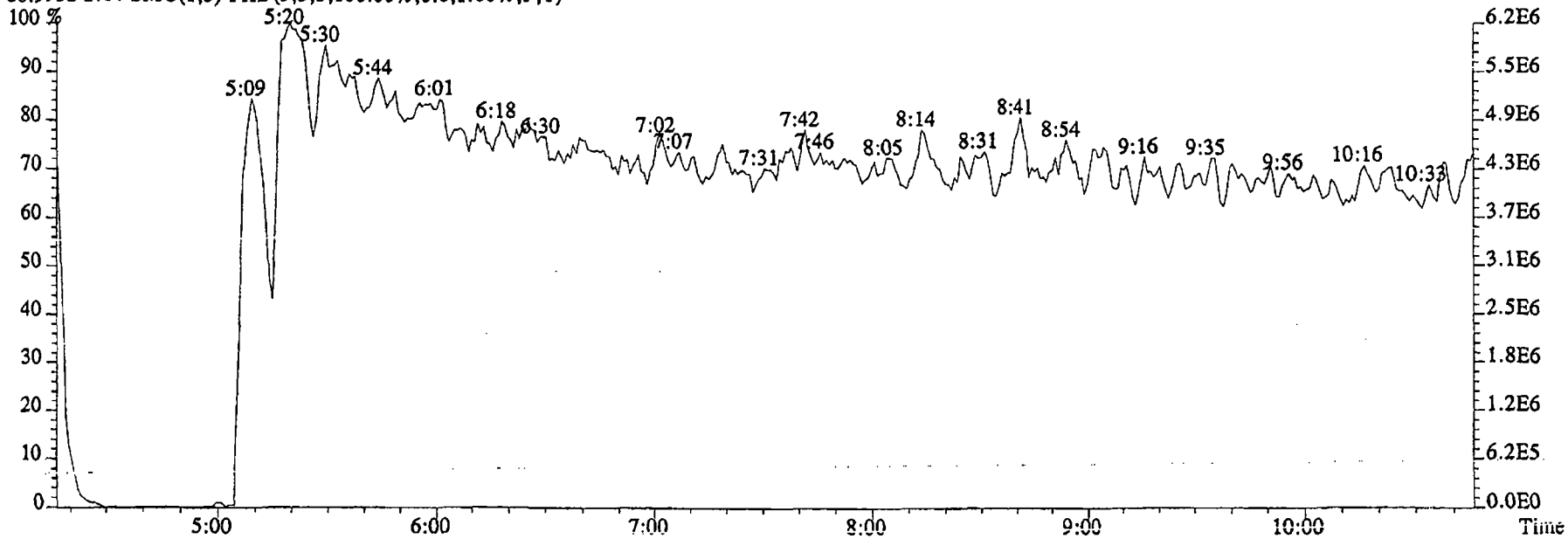
115.0003 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27548.0,1.00%,F,T)



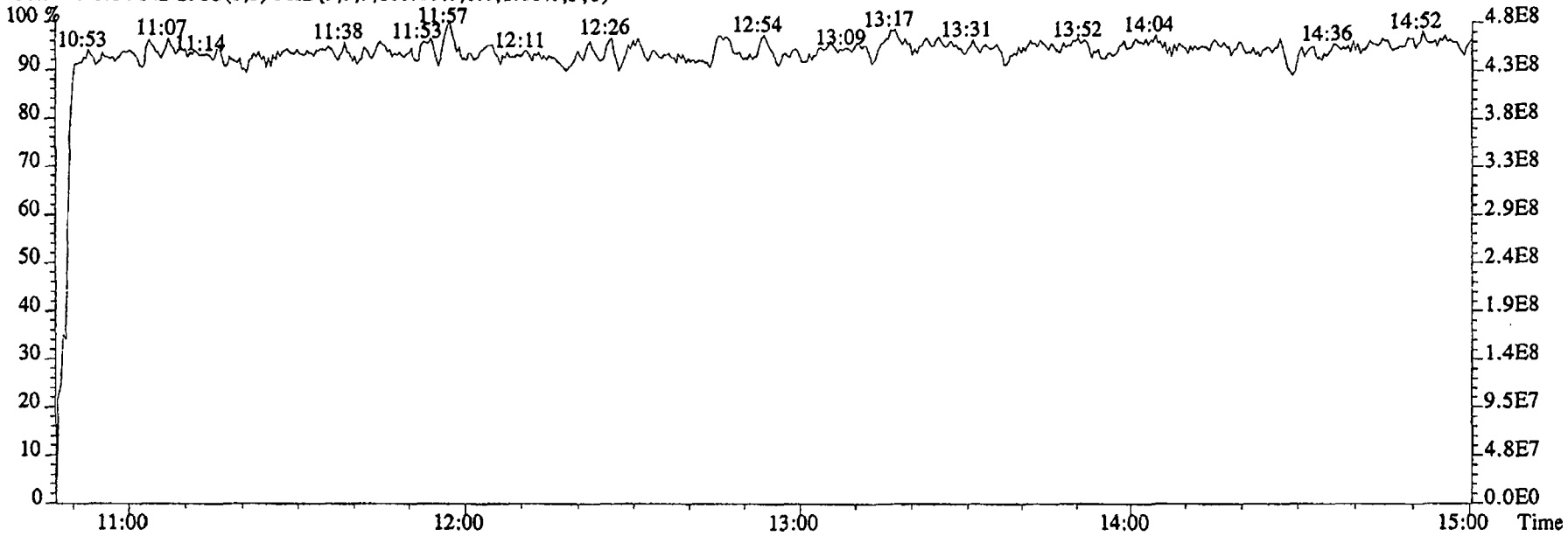
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
68.9952 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



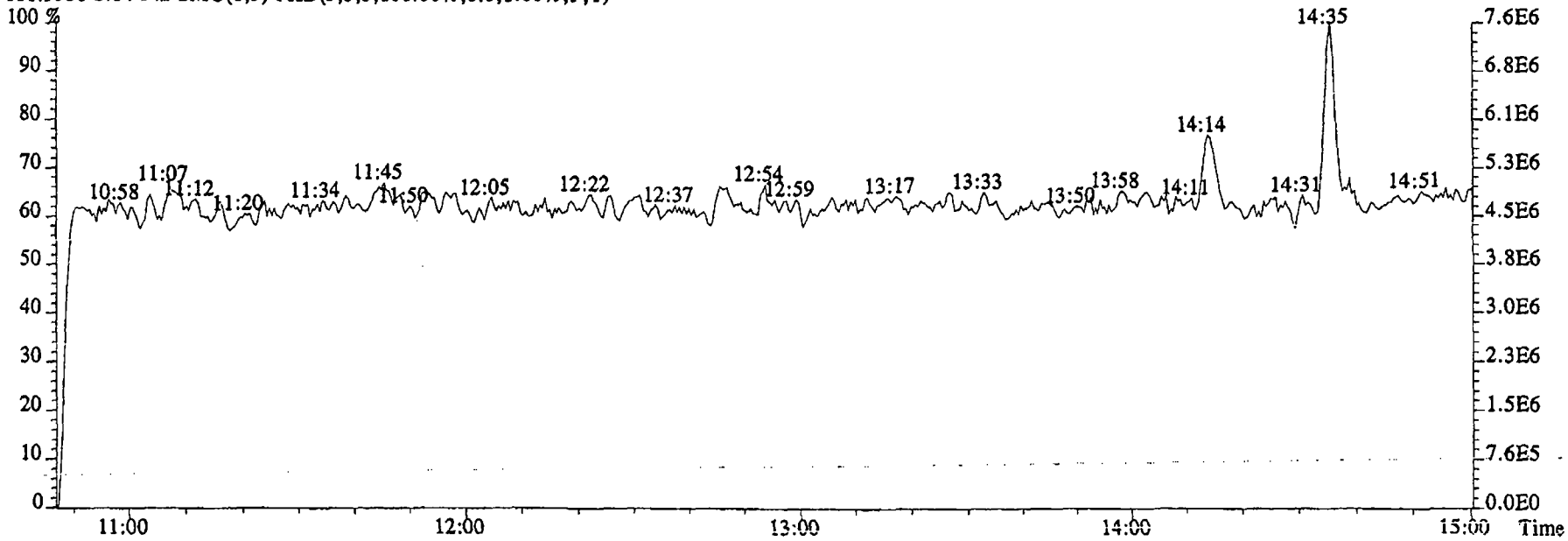
80.9952 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-591 Acq: 9-DEC-2004 22:37:26 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0GT9-1-AC :G4L070405-2 Exp:NDMAVOA
118.9920 S:14 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:14 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GVA-1-AC Sample text: G0GVA-1-AC :G4L070405-3
Run #12 Filename: 09DE045SP S: 15 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 22:57:51 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.979 L

Name	Resp	RA	RT	RRF	Conc	RL	EDL	Rec	M
2-Chloropyridine	50338400		11:08	-	327.36		-	-	n
D8-1,4-Dioxane	149501		5:03	1.11	0.54		0.23	0.1	n
1,4-Dioxane	1438050		5:00	1.15	8576.87		3097.14	-	n
D5-123-TriChloroPropane	59614300		10:04	4.65	52.01		0.10	50.9	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	<5.0	3.88	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	8828910		10:15	2.55	14.06		0.15	13.8 *	n
NDMA	123286		10:15	0.98	~~1.45~~	<2.0	~~17.24~~ 1.65	-	y
2-Chloropyridine	164397000		11:08	-	330.64		-	-	n

12-28-04

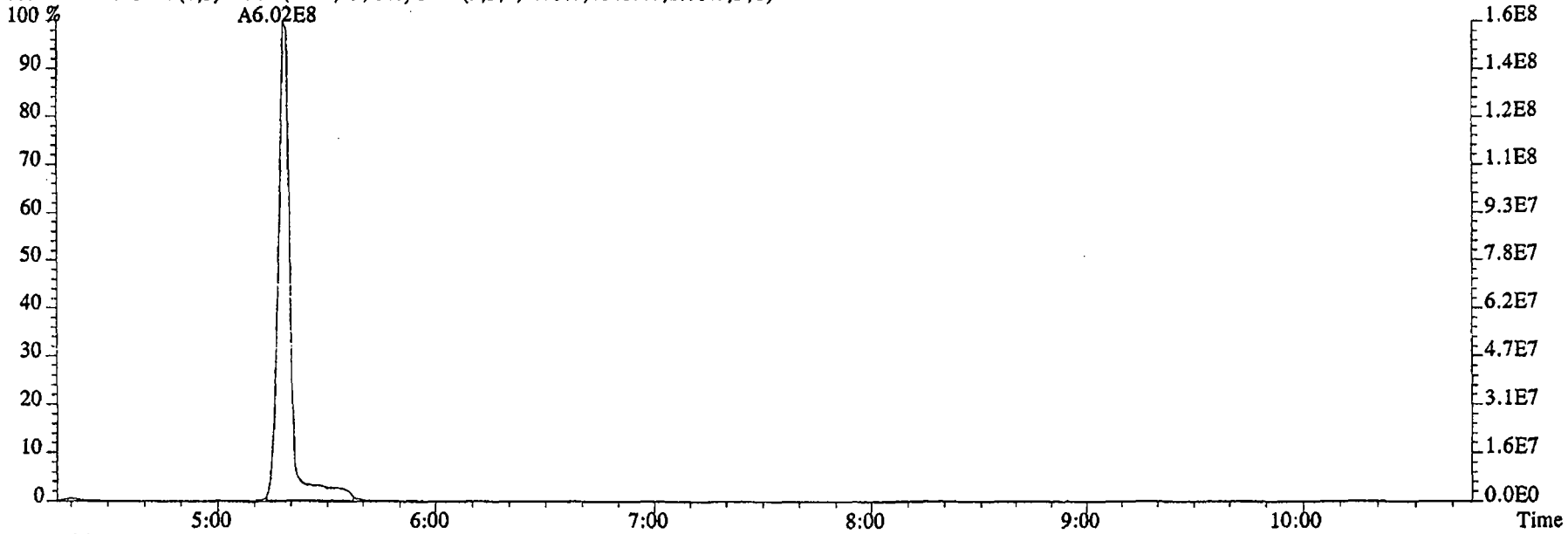
Run text: G0GVA-1-AC Sample text: G0GVA-1-AC :G4L070405-3
Run #12 Filename: 09DE045SP S: 15 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 22:57:51 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.979 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	50338400		11:08	-	327.36	-	-	n
D8-1,4-Dioxane	149501		5:03	1.11	0.54	0.23	0.1	n
1,4-Dioxane	1438050		5:00	1.15	8576.87	3097.14	-	n
D5-123-TriChloroPropane	59614300		10:04	4.65	52.01	0.10	50.9	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	3.88	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	8828910		10:15	2.55	14.06	0.15	13.8	n
NDMA	*		NotFnd	0.98	*	17.24	-	n
2-Chloropyridine	164397000		11:08	-	330.64	-	-	n

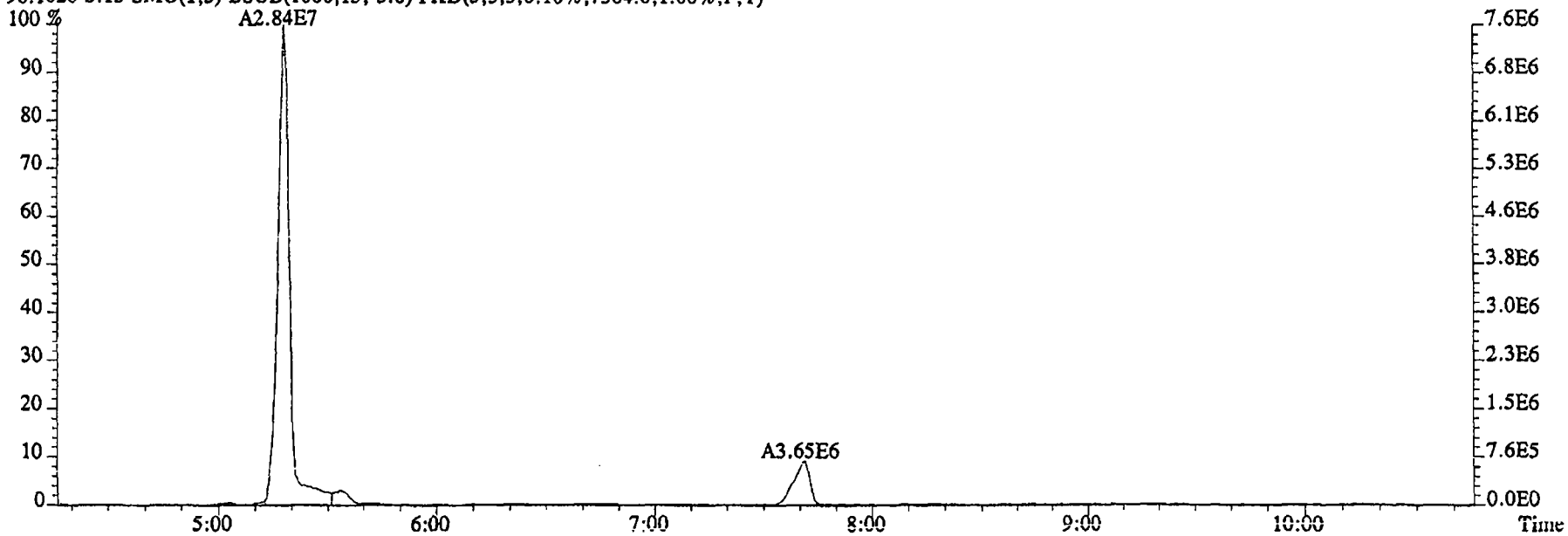
Run text: G0GVA-1-AC Sample text: G0GVA-1-AC :G4L070405-3
Run #12 Filename: 09DE045SP S: 15 I: 1 Results: KAS
Acquired: 9-DEC-04 22:57:51 Processed: 10-DEC-04 09:14:09
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.979 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	50338400		11:08	-	327.36	-	-	n
D8-1,4-Dioxane	149501		5:03	1.11	0.54	0.23	0.1	n
1,4-Dioxane	1438050		5:00	1.15	8576.87	3097.14	-	n
D5-123-TriChloroPropane	59614300		10:04	4.65	52.01	0.10	50.9	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	3.88	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	8828910		10:15	2.55	14.06	0.15	13.8	n
NDMA	*		NotFnd	0.98	*	17.24	-	n
2-Chloropyridine	164397000		11:08	-	330.64	-	-	n

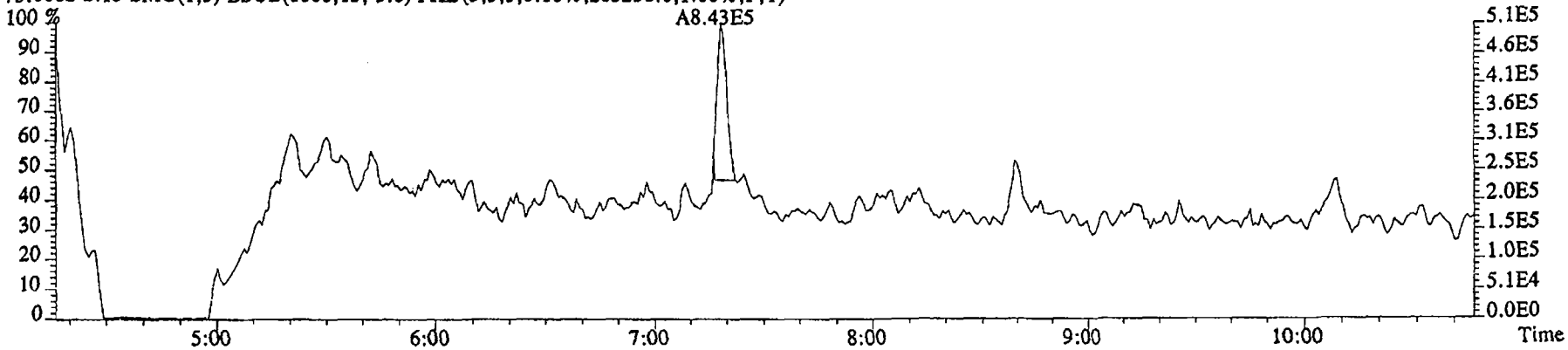
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
88.0524 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40480.0,1.00%,F,T)



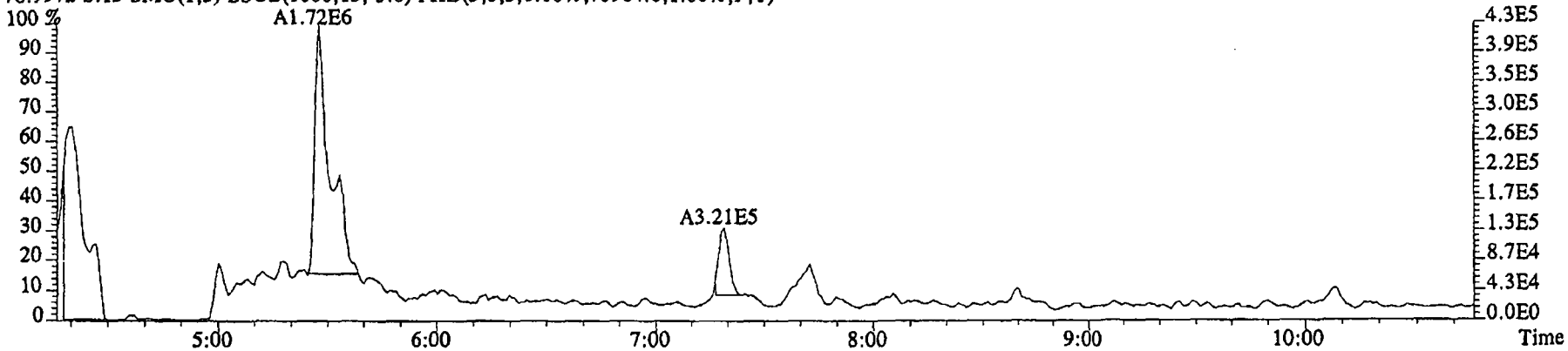
96.1026 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7364.0,1.00%,F,T)



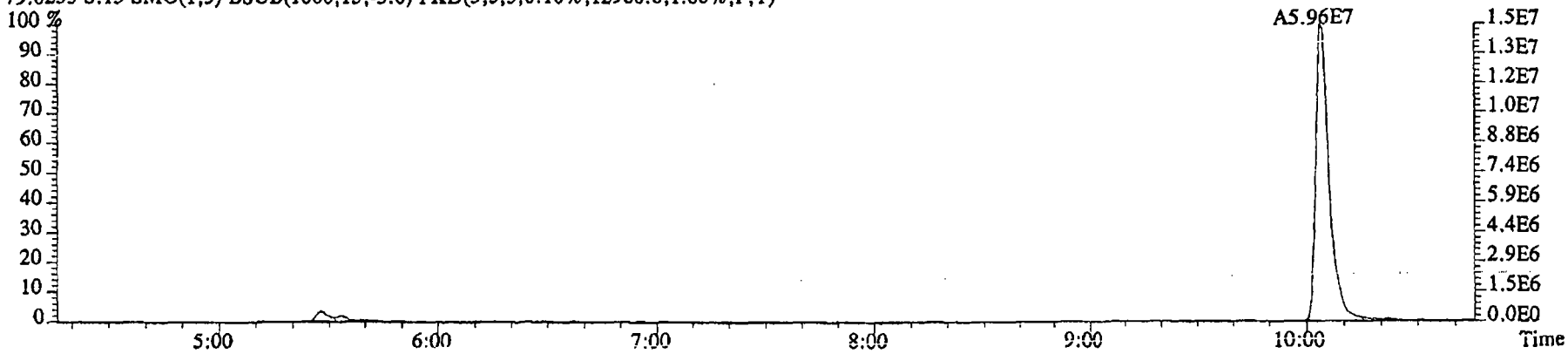
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
75.0002 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,285236.0,1.00%,F,T)



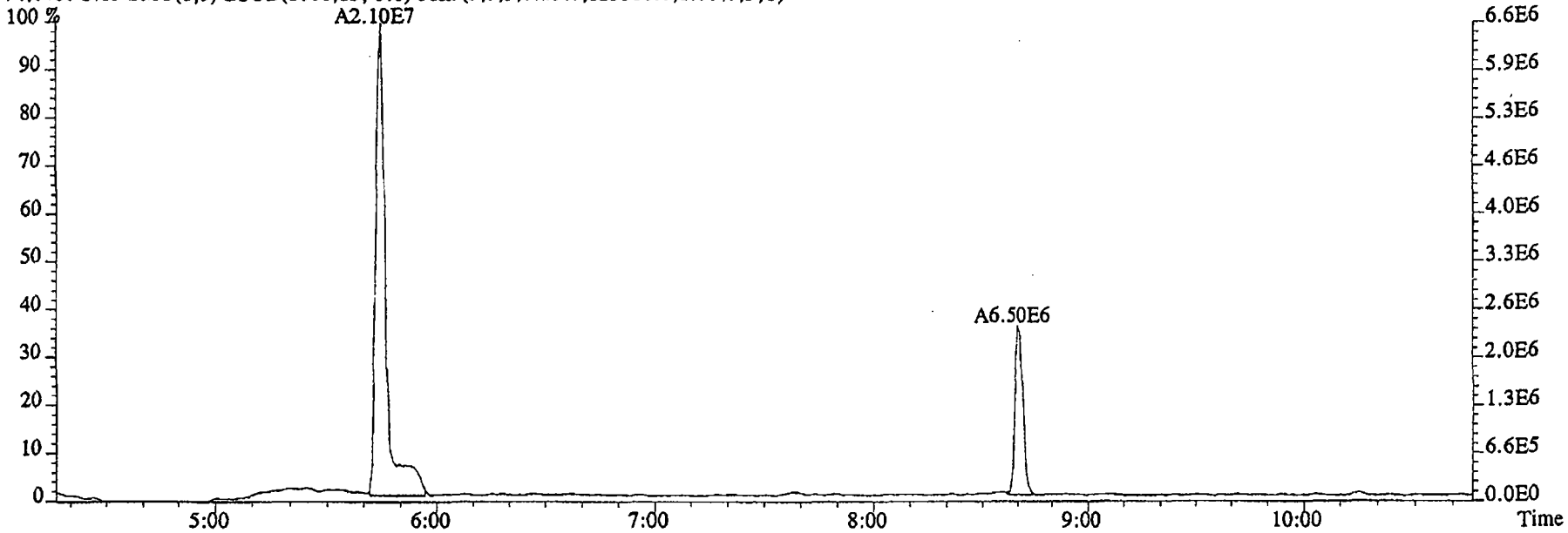
76.9972 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,70964.0,1.00%,F,T)



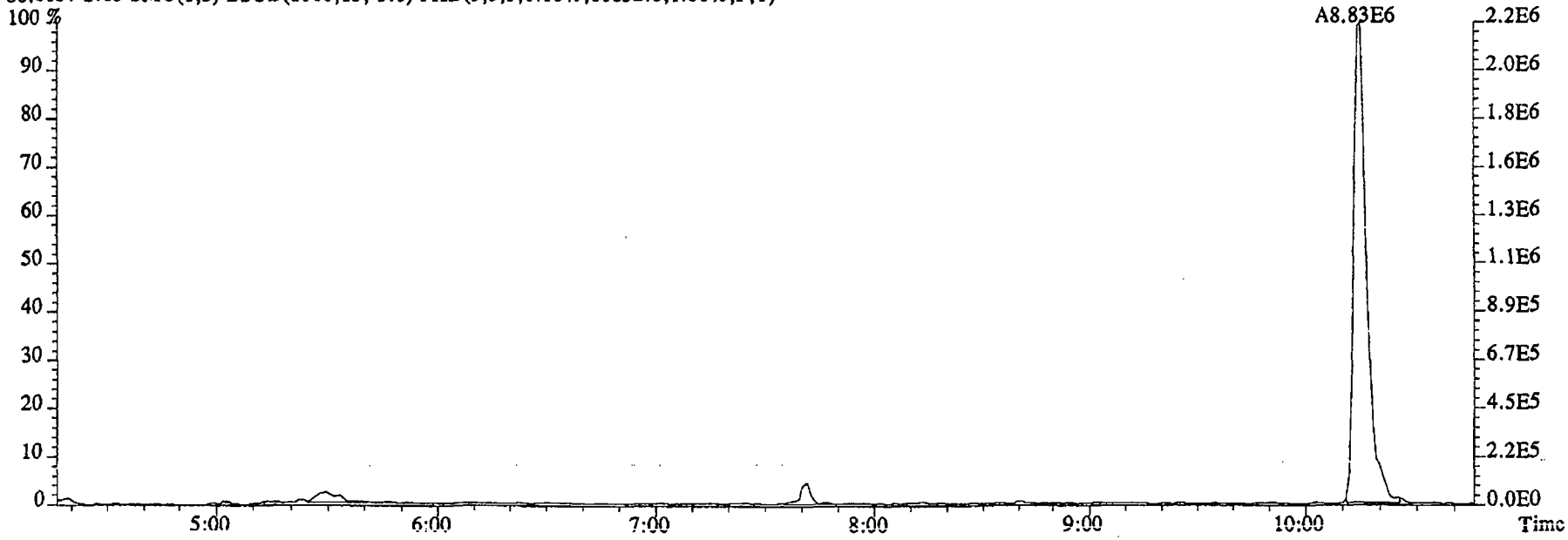
79.0253 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12980.0,1.00%,F,T)



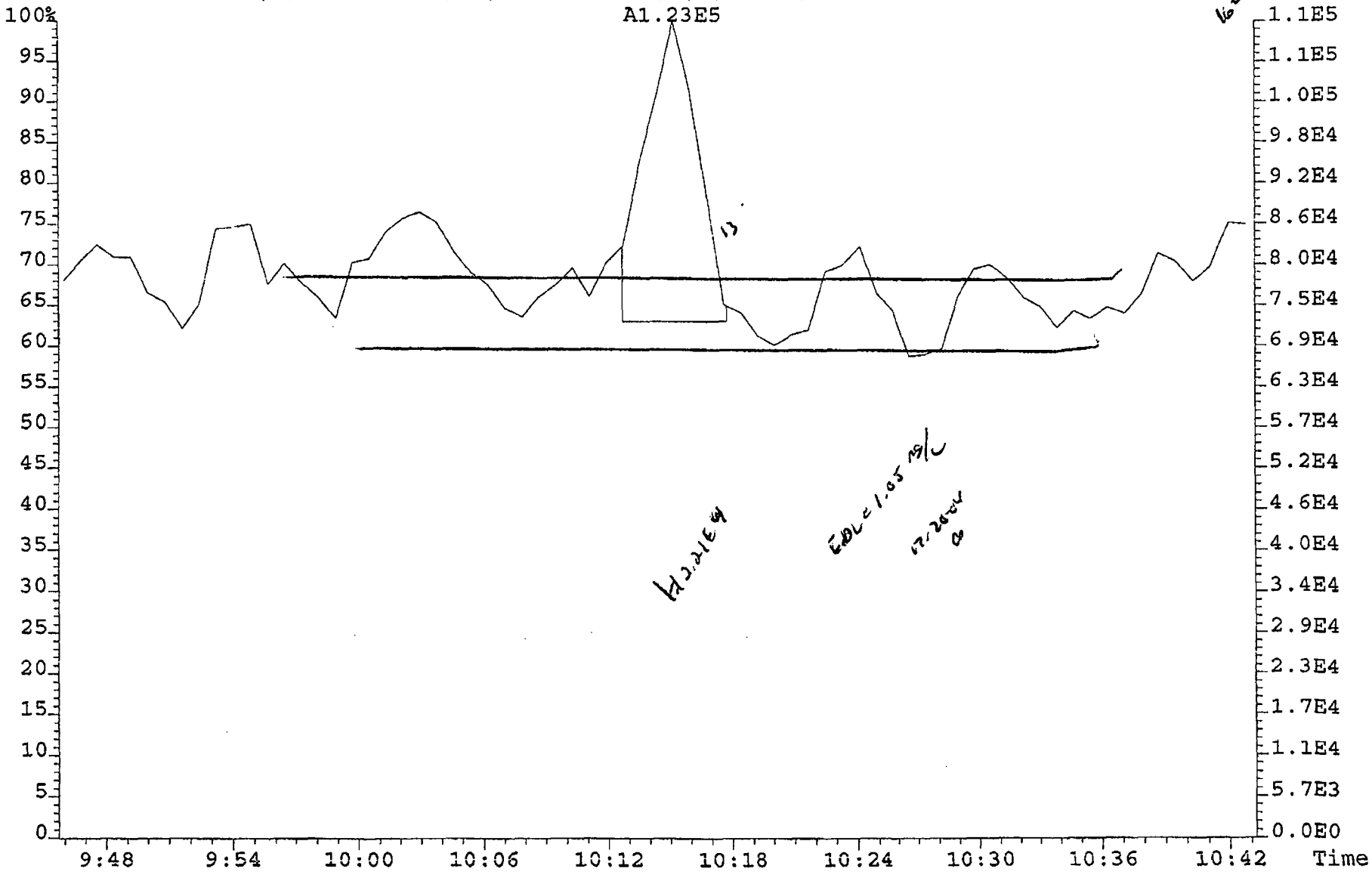
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
74.0480 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,123316.0,1.00%,F,T)



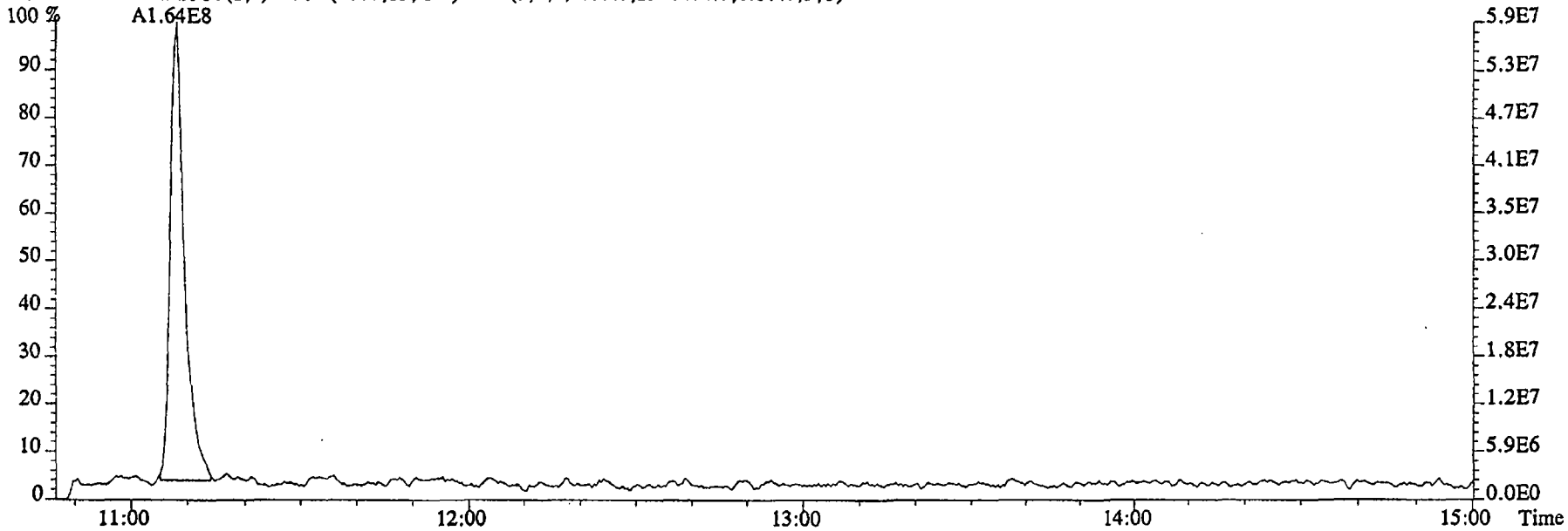
80.0857 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10652.0,1.00%,F,T)



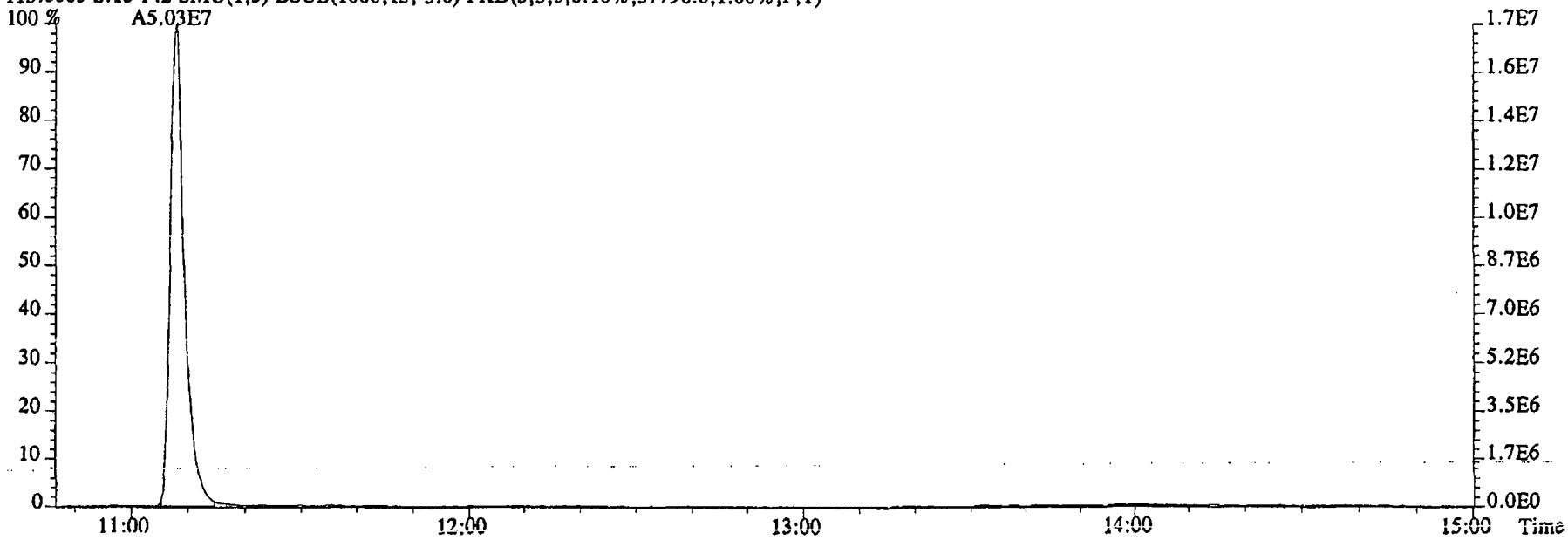
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
74.0480 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,123316.0,1.00%,F,T)



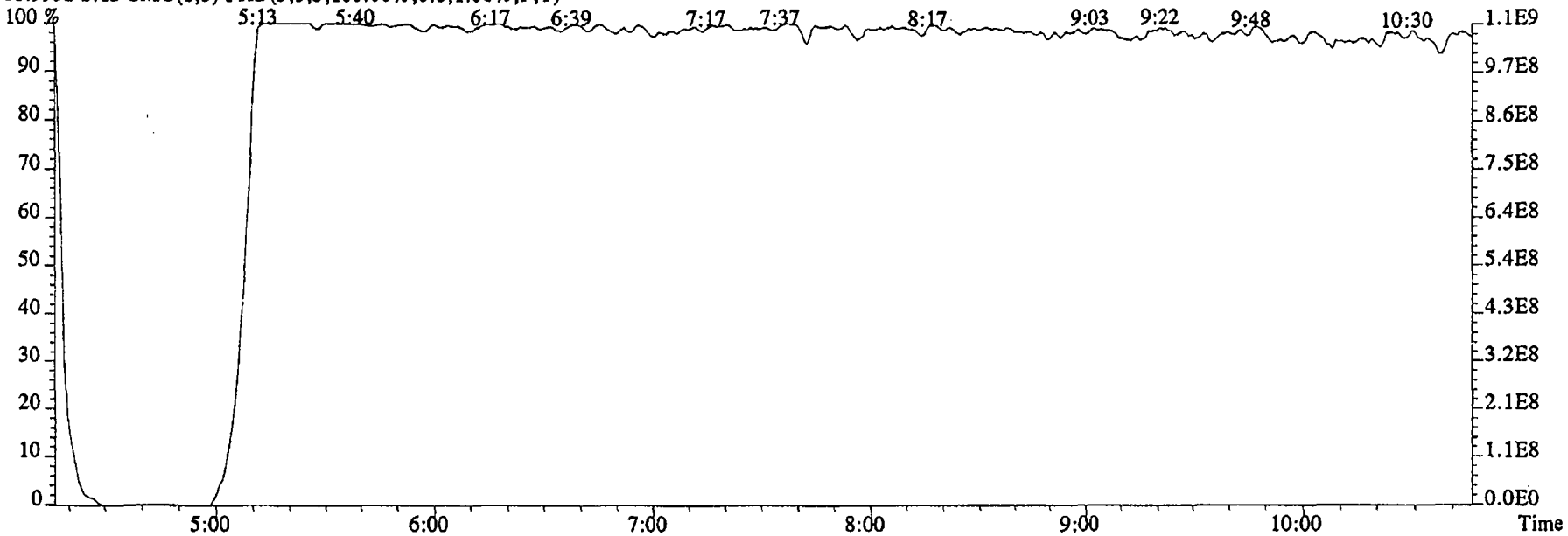
File:09DE045SP #1-591 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
113.0032 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2581464.0,1.00%,F,T)



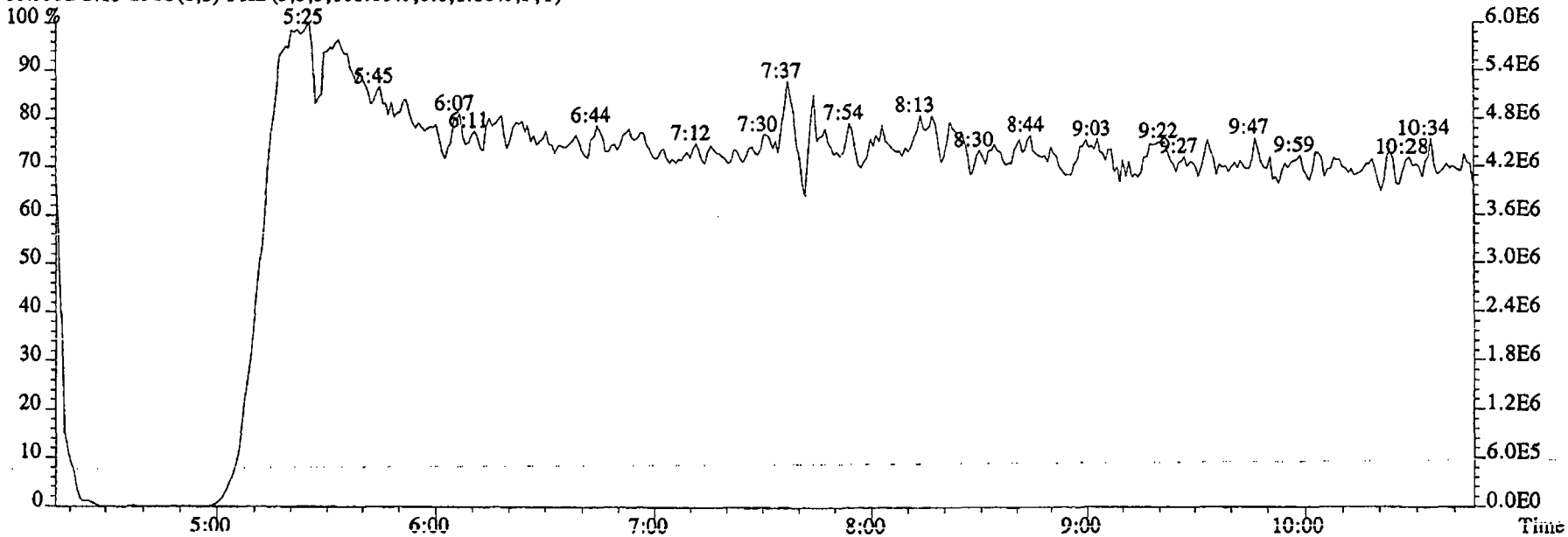
115.0003 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37796.0,1.00%,F,T)



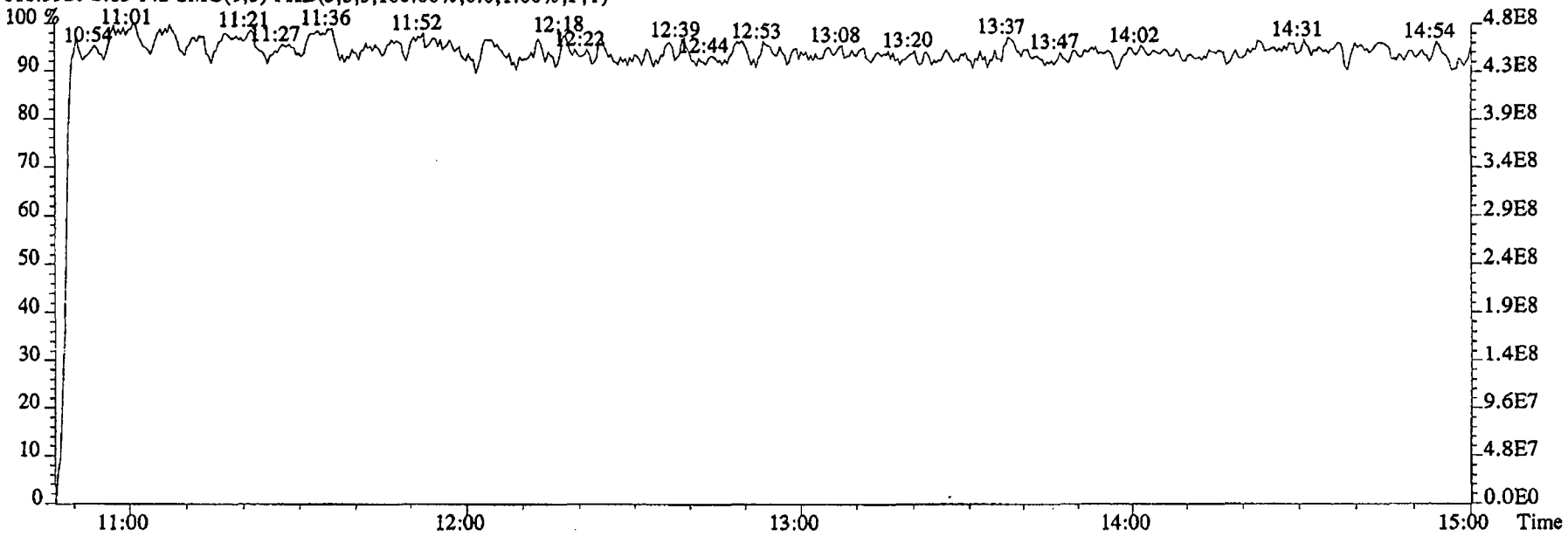
File:09DE045SP #1-480 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
68.9952 S:15 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



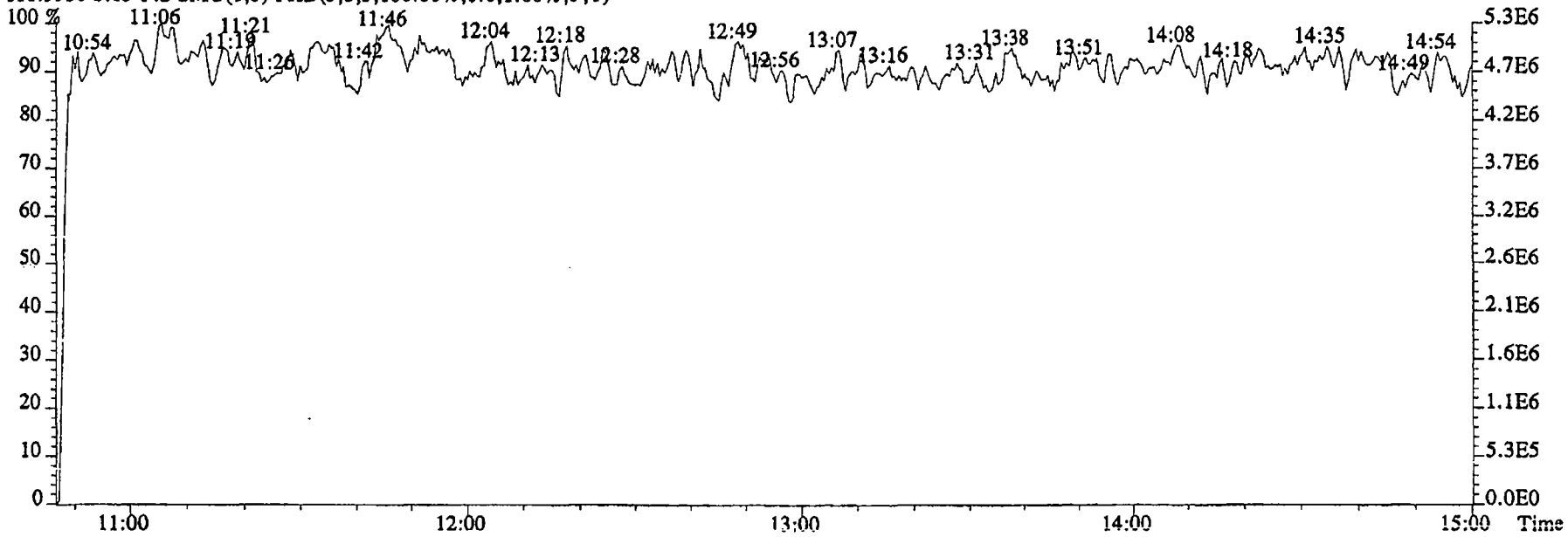
80.9952 S:15 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-591 Acq: 9-DEC-2004 22:57:51 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0GVA-1-AC :G4L070405-3 Exp:NDMAVOA
118.9920 S:15 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:15 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GVC-1-AC Sample text: G0GVC-1-AC :G4L070405-4
Run #13 Filename: 09DE045SP S: 16 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 23:18:19 Processed: 10-DEC-04 09:14:10
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.990 L

Name	Resp	RA	RT	RRF	Conc		EDL	Rec	M
2-Chloropyridine	35858500		11:07	-	230.60		-	-	n
D8-1,4-Dioxane	24557100		5:07	1.11	124.16		0.27	12.3	n
1,4-Dioxane	26535600		5:07	1.15	952.79		13.19	-	n
D5-123-TriChloroPropane	44568400		10:03	4.65	53.98		0.08	53.4	n
1,2,3-TriChloroPropane	76973		10:07	0.38	~~0.46~~	<5.0	0.63	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	8088040		10:14	2.55	17.89		0.07	17.7 *	n
NDMA	*		NotFnd	0.98	*	<2.0	~~4.03~~ 1.44	-	n
2-Chloropyridine	112394000		11:07	-	223.54		-	-	n

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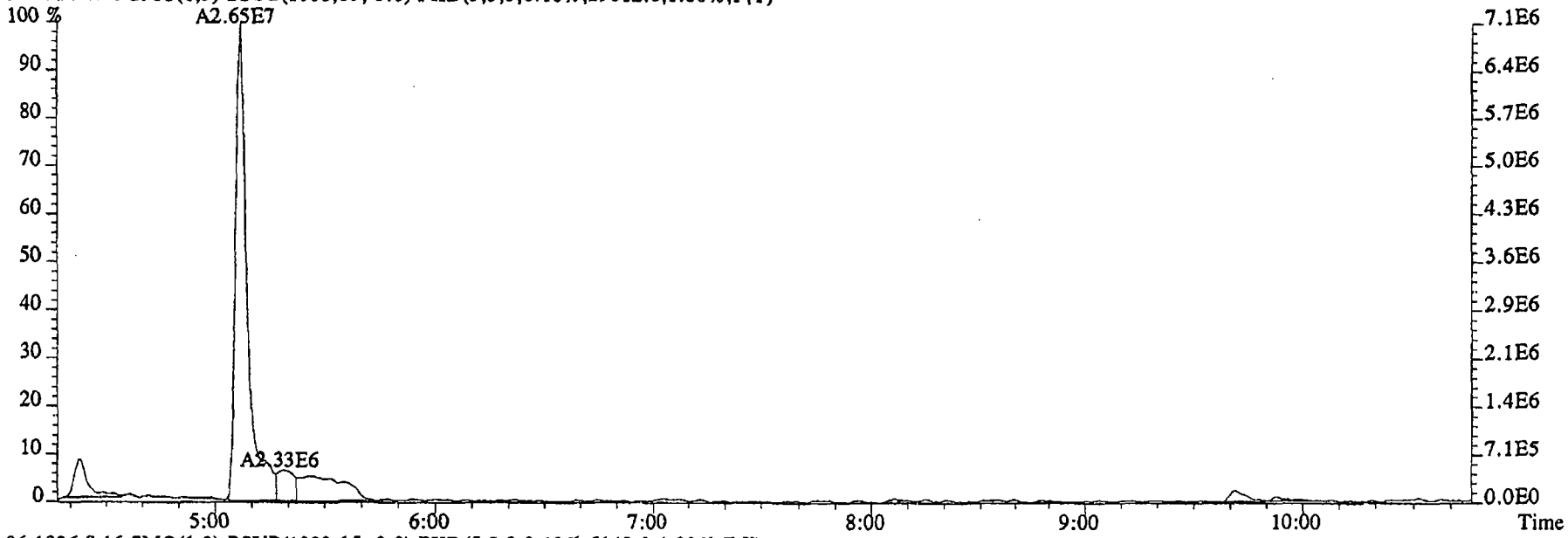
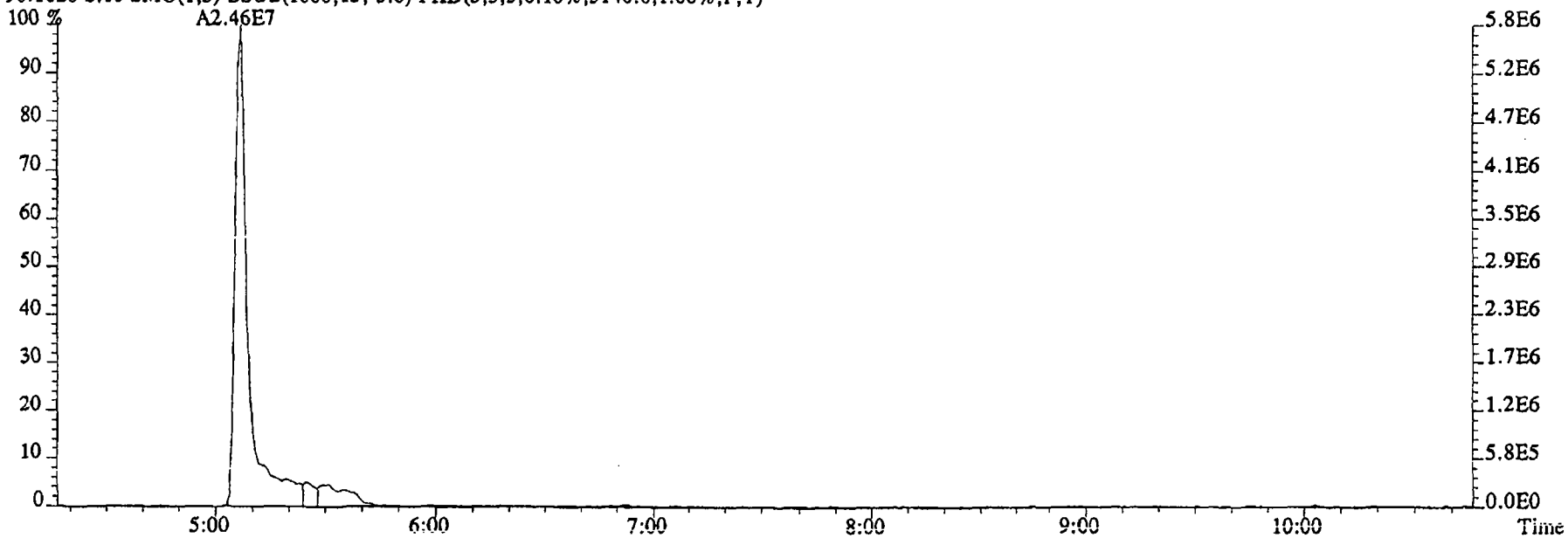
Run text: G0GVC-1-AC Sample text: G0GVC-1-AC :G4L070405-4
Run #13 Filename: 09DE045SP S: 16 I: 1 Results: KAS
Acquired: 9-DEC-04 23:18:19 Processed: 10-DEC-04 09:14:10
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.990 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	35858500		11:07	-	230.60	-	-	n
D8-1,4-Dioxane	24557100		5:07	1.11	124.16	0.27	12.3	n
1,4-Dioxane	26535600		5:07	1.15	952.79	13.19	-	n
D5-123-TriChloroPropane	44568400		10:03	4.65	53.98	0.08	53.4	n
1,2,3-TriChloroPropane	76973		10:07	0.38	0.46	0.63	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	8088040		10:14	2.55	17.89	0.07	17.7	n
NDMA	*		NotFnd	0.98	*	4.03	-	n
2-Chloropyridine	112394000		11:07	-	223.54	-	-	n

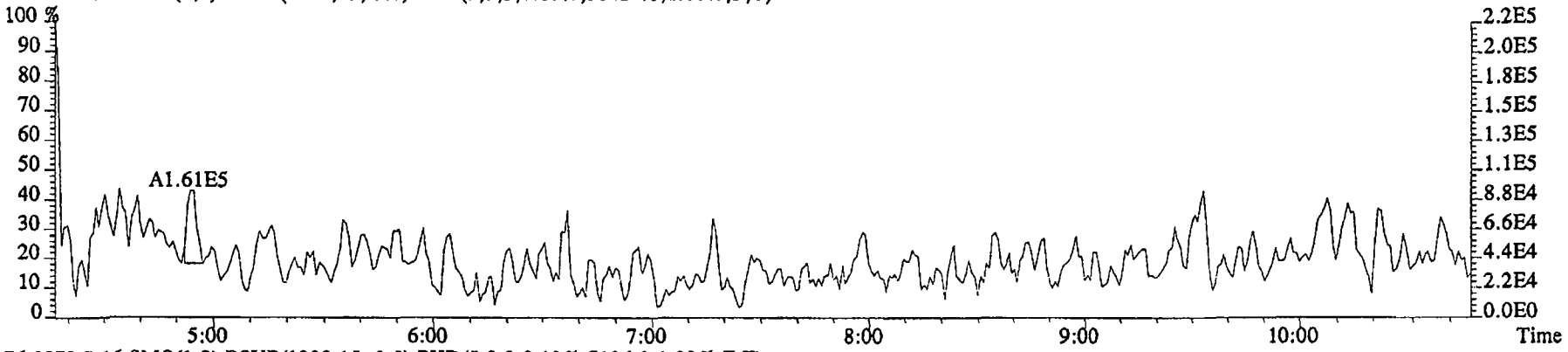
File:09DE045SP #1-480 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
88.0524 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29012.0,1.00%,F,T)



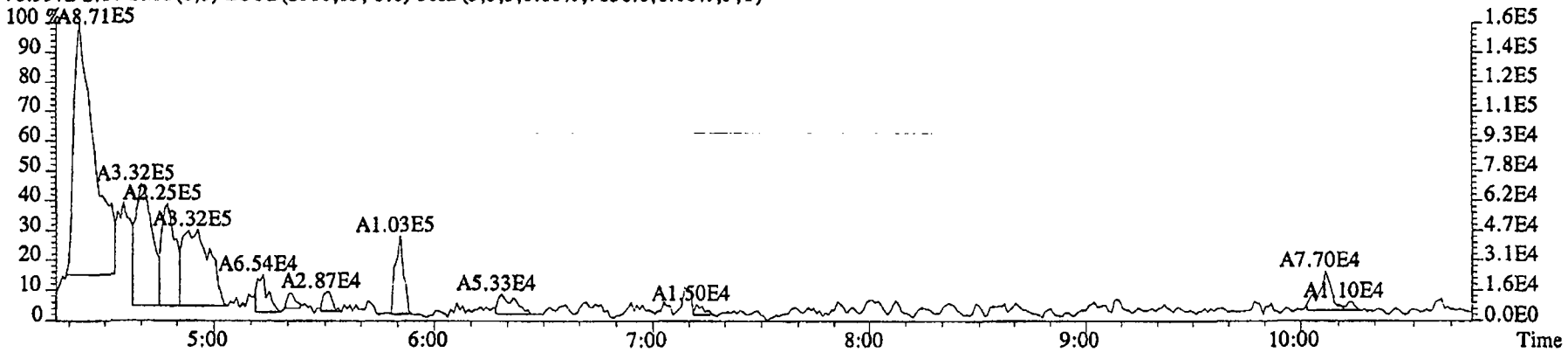
96.1026 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5140.0,1.00%,F,T)



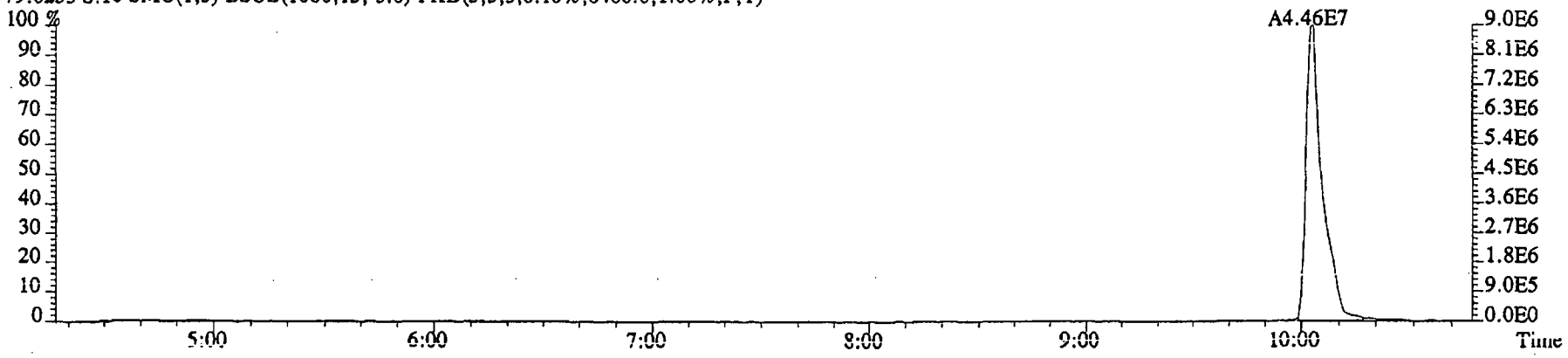
File:09DE045SP #1-480 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
75.0002 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50624.0,1.00%,F,T)



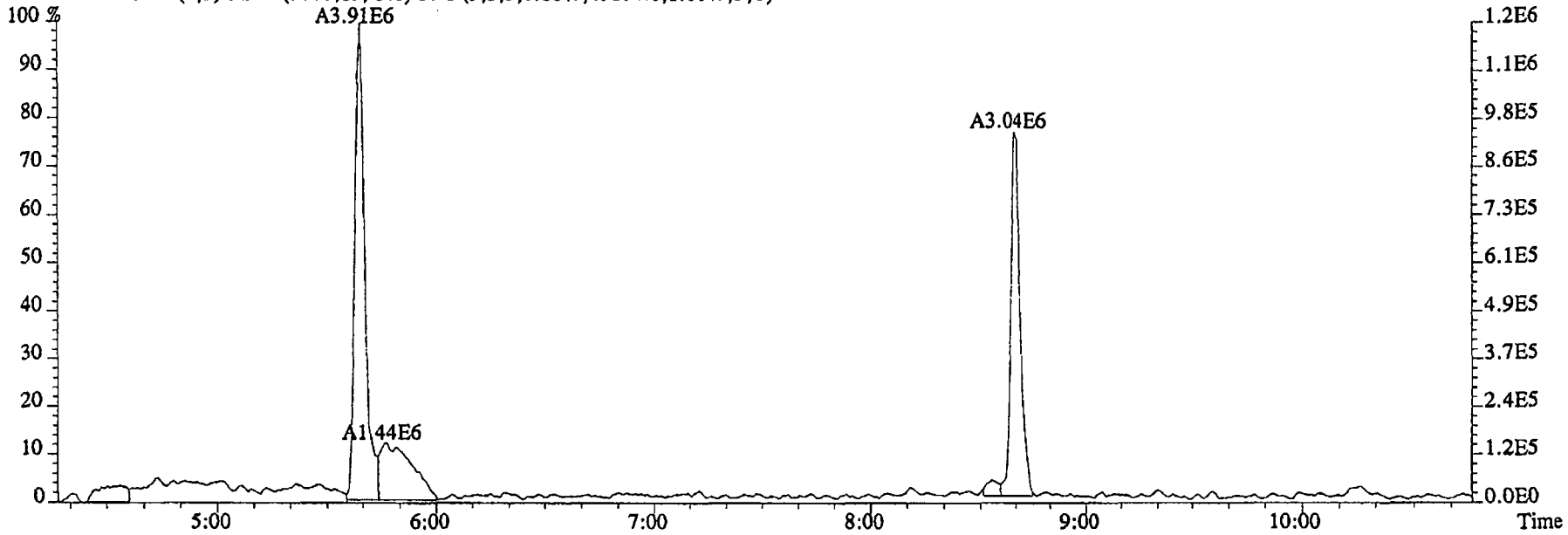
76.9972 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7136.0,1.00%,F,T)



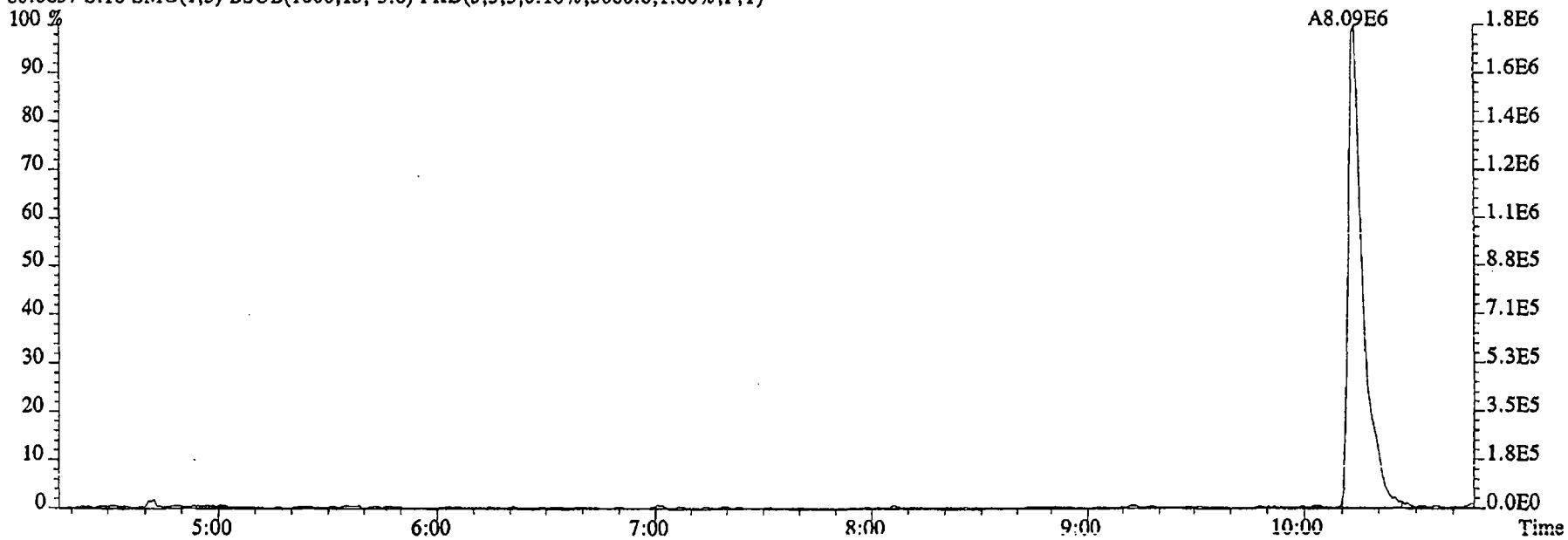
79.0253 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6460.0,1.00%,F,T)



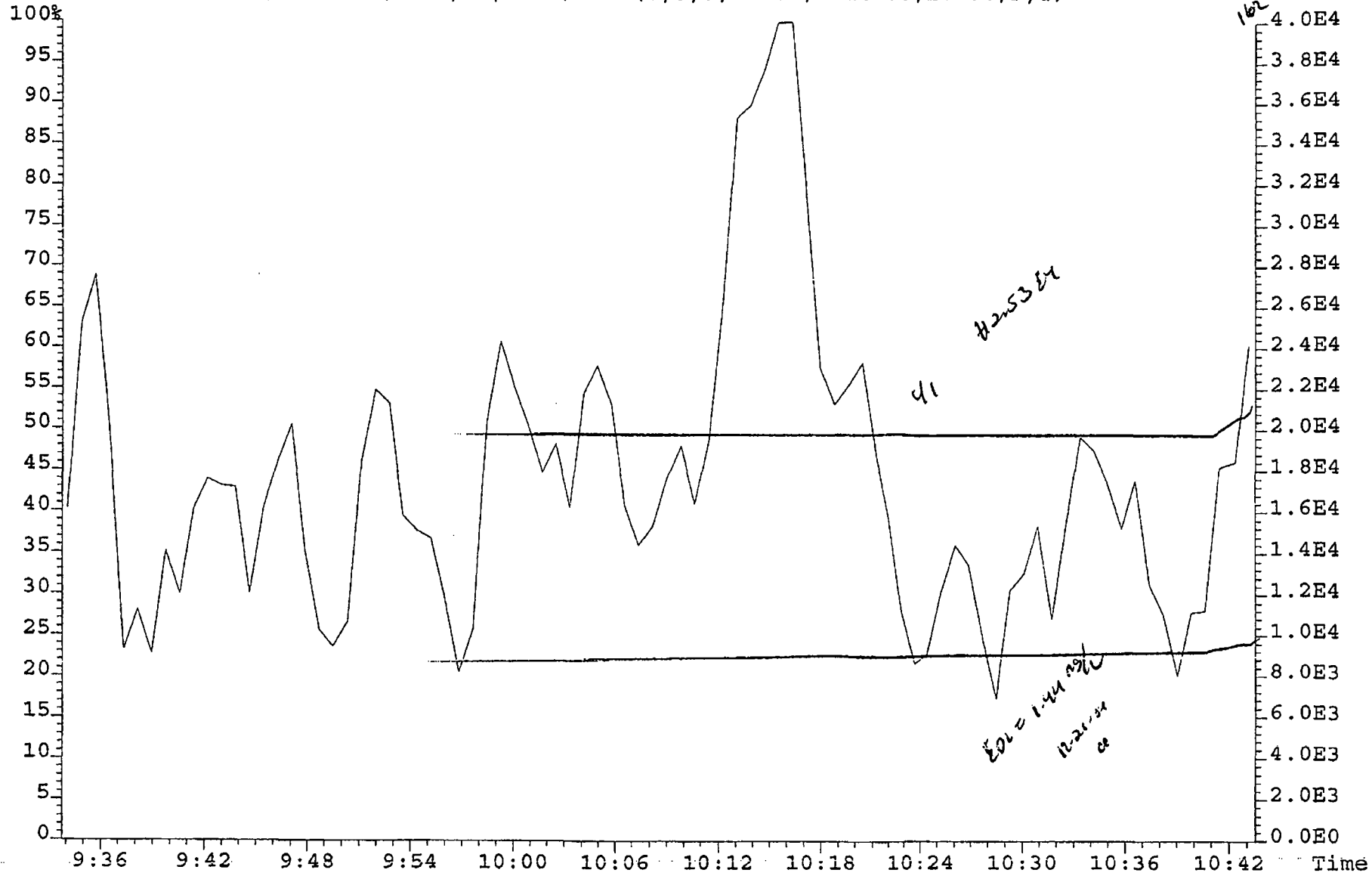
File:09DE045SP #1-480 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
74.0480 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23104.0,1.00%,F,T)



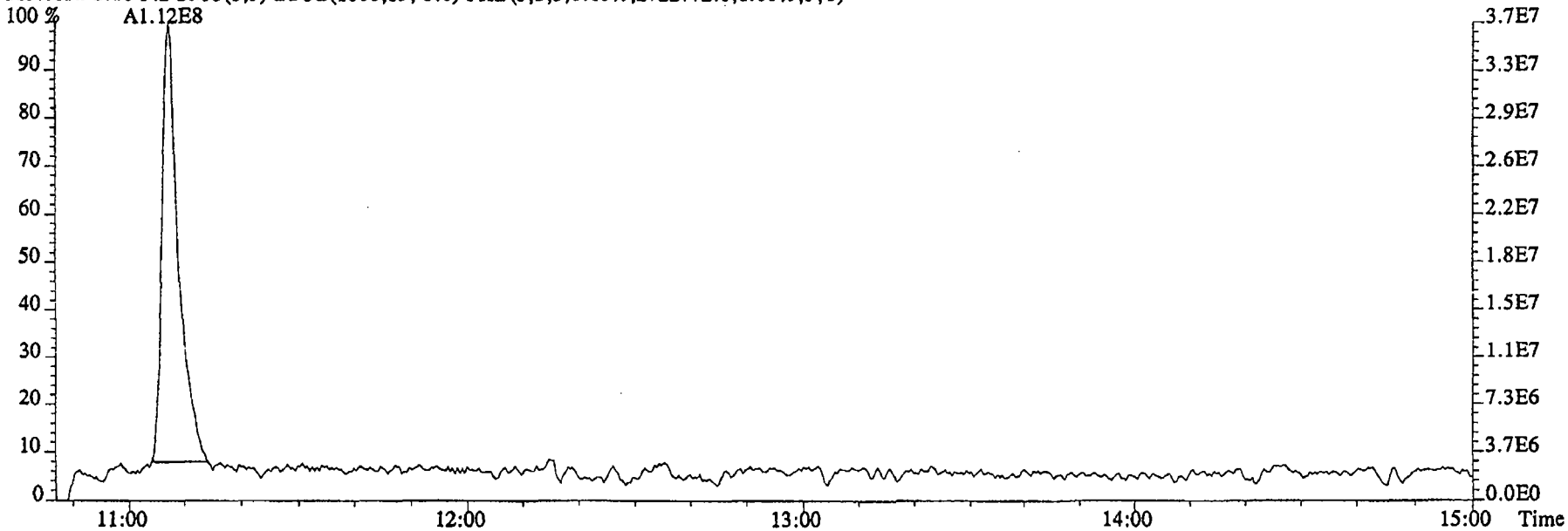
80.0857 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3060.0,1.00%,F,T)



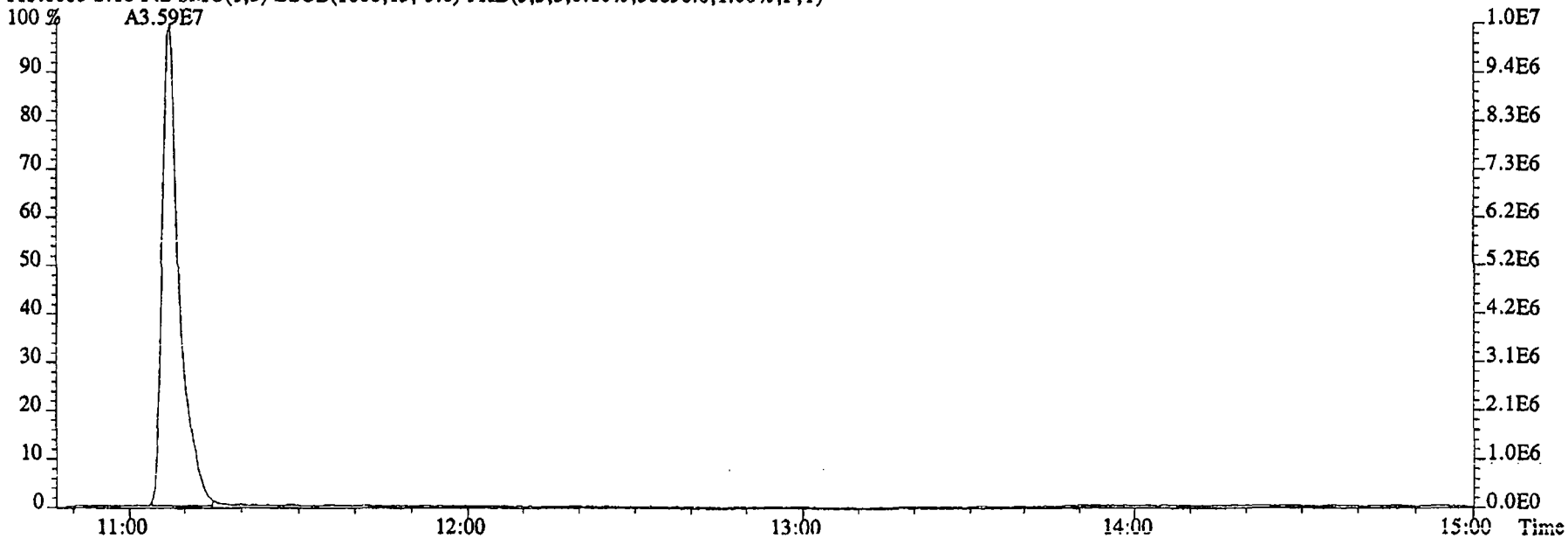
File:09DE045SP #1-480 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
74.0480 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23104.0,1.00%,F,T)



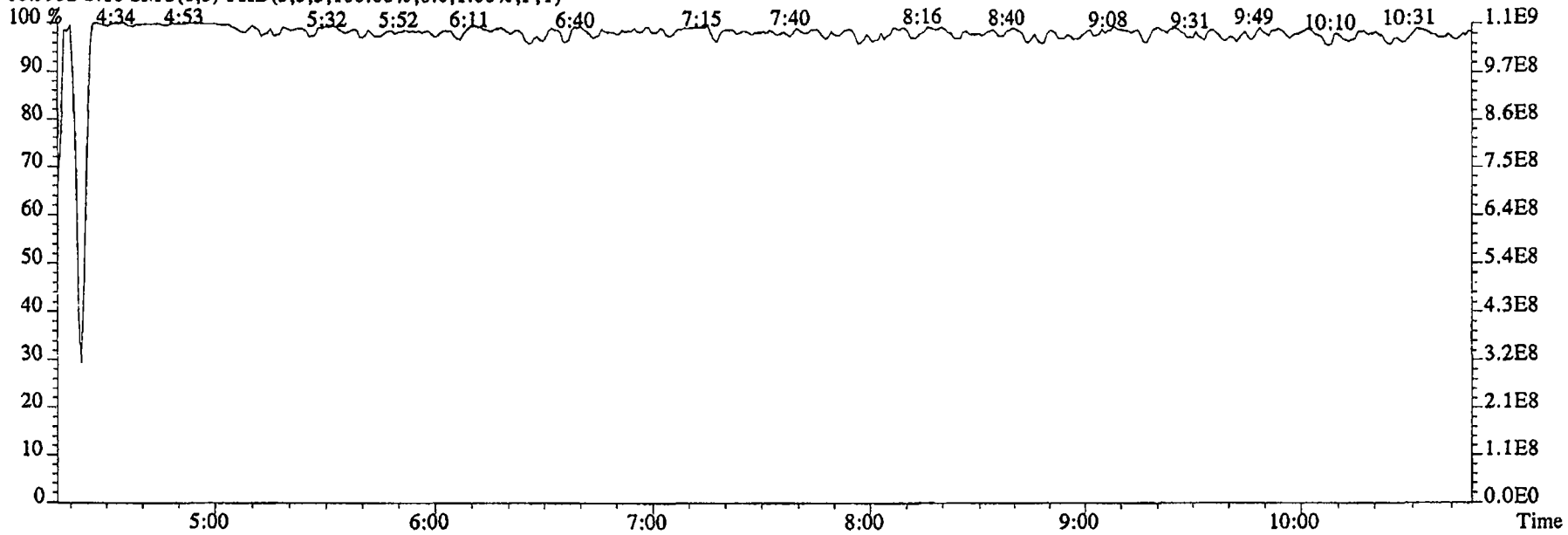
File:09DE045SP #1-590 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
113.0032 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2722772.0,1.00%,F,T)



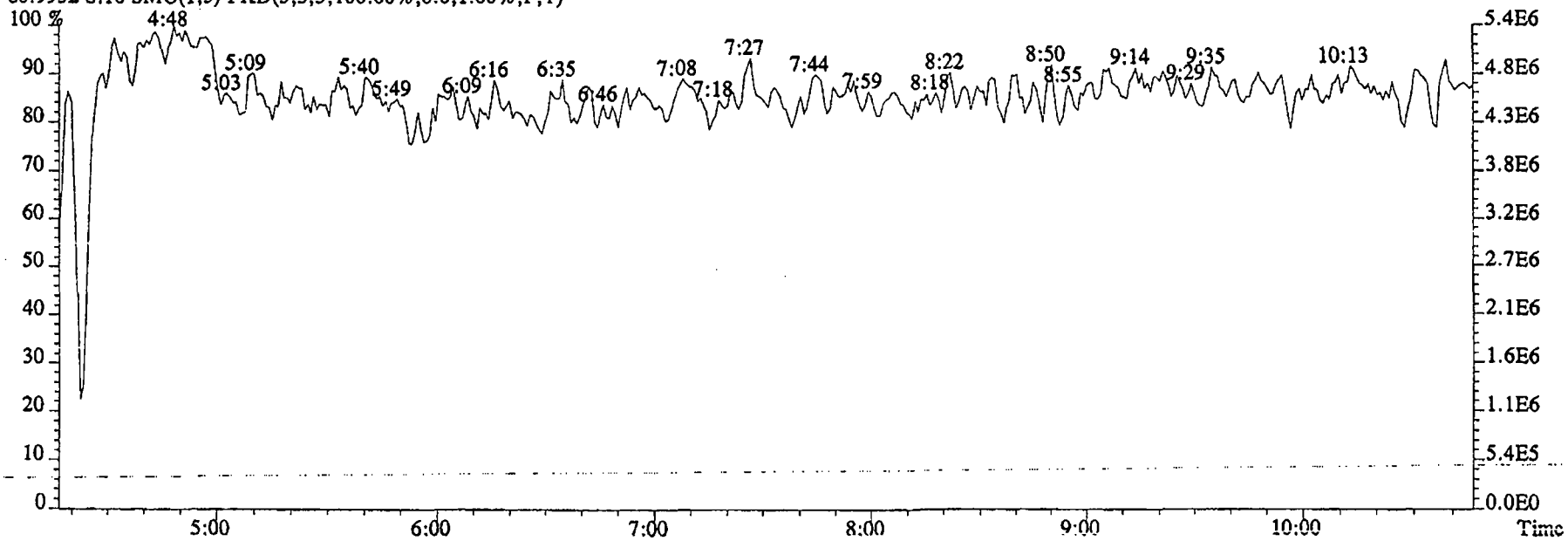
115.0003 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36896.0,1.00%,F,T)



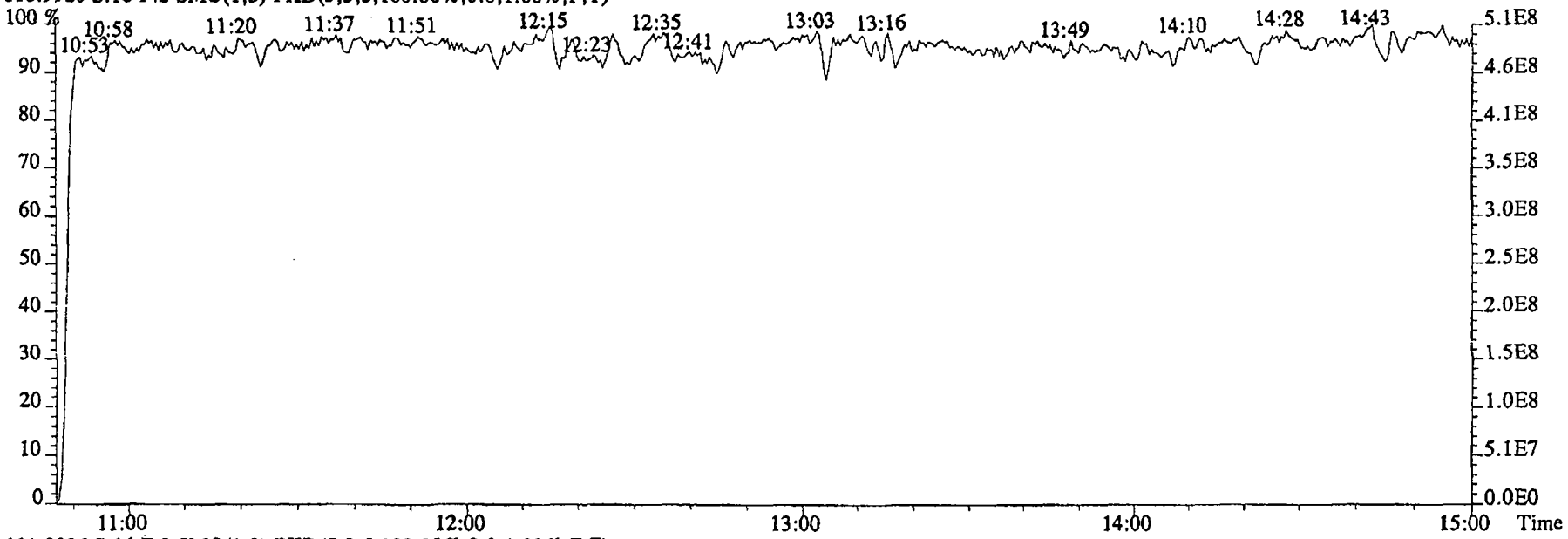
File:09DE045SP #1-480 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
68.9952 S:16 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



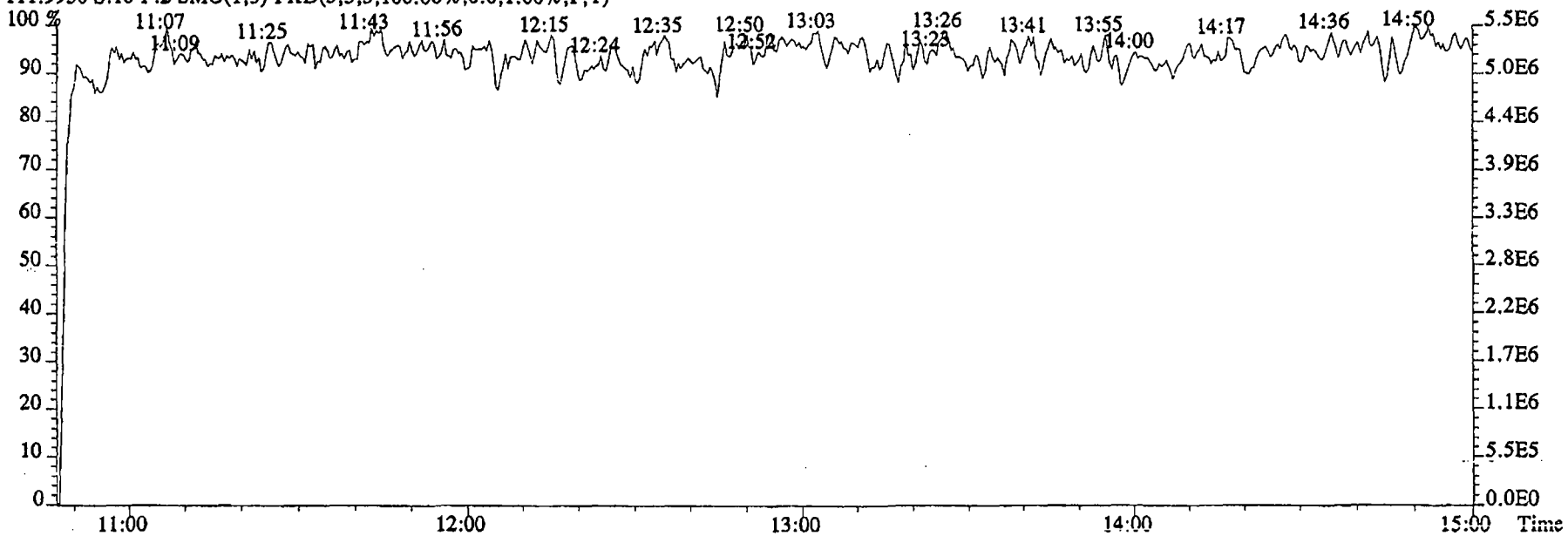
80.9952 S:16 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-590 Acq: 9-DEC-2004 23:18:19 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0GVC-1-AC :G4L070405-4 Exp:NDMAVOA
118.9920 S:16 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:16 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GVD-1-AC Sample text: G0GVD-1-AC :G4L070405-5
Run #14 Filename: 09DE045SP S: 17 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 23:38:44 Processed: 10-DEC-04 09:14:10
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.980 L

Name	Resp	RA	RT	RRF	Conc	~~pc~~	EDL	Rec	M
2-Chloropyridine	39901700		11:07	-	259.22		-	-	n
D8-1,4-Dioxane	37656200		5:08	1.11	172.84		0.42	16.9	n
1,4-Dioxane	2523100		5:09	1.15	59.68		9.09	-	n
D5-123-TriChloroPropane	29149200		10:03	4.65	32.05		0.17	31.4	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	<5.0	1.94	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	7120290		10:14	2.55	14.29		0.21	14.0	n
NDMA	*		NotFnd	0.98	*	<2.0	~~15.34~~ 1.39	-	n
2-Chloropyridine	129019000		11:07	-	259.22		-	-	n

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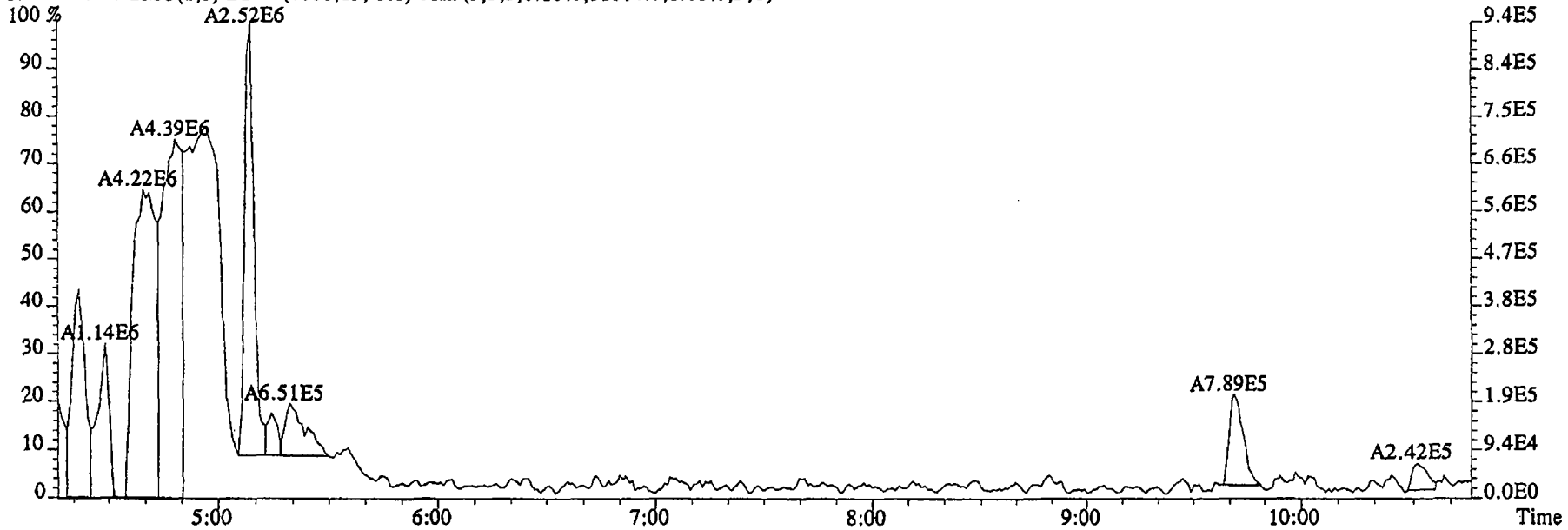
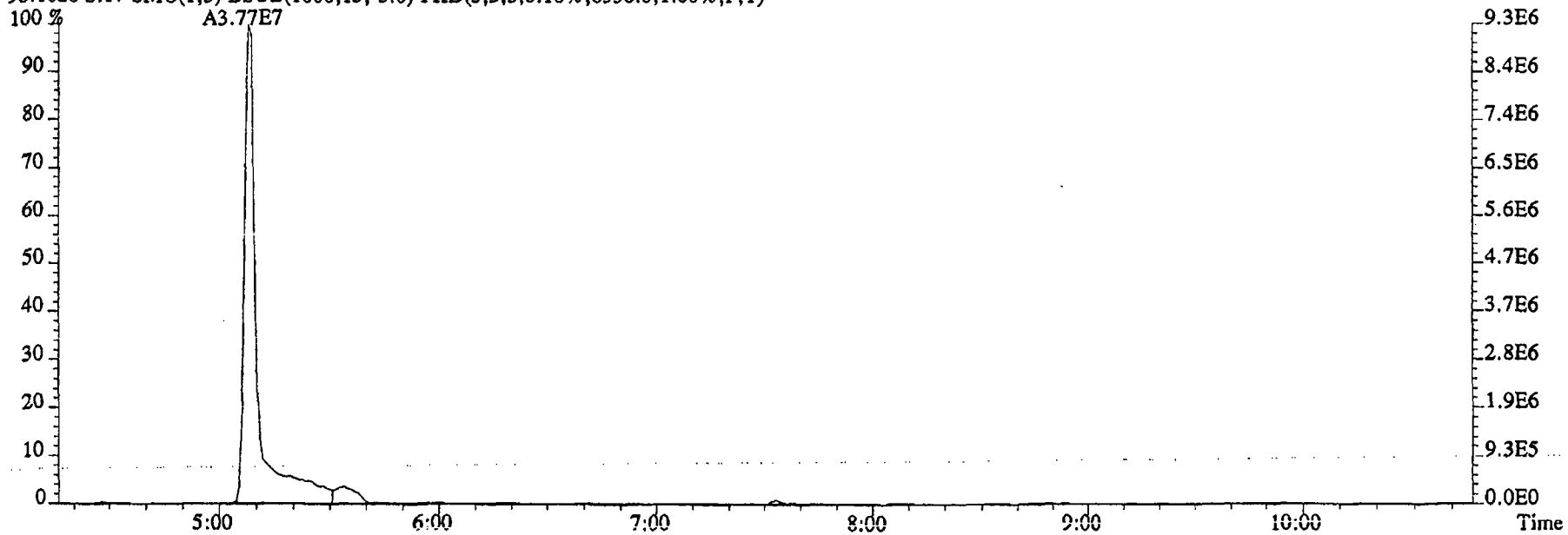
Run text: G0GVD-1-AC Sample text: G0GVD-1-AC :G4L070405-5
Run #14 Filename: 09DE045SP S: 17 I: 1 Results: KAS
Acquired: 9-DEC-04 23:38:44 Processed: 10-DEC-04 09:14:10
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.980 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	39901700		11:07	-	259.22	-	-	n
D8-1,4-Dioxane	37656200		5:08	1.11	172.84	0.42	16.9	n
1,4-Dioxane	2523100		5:09	1.15	59.68	9.09	-	n
D5-123-TriChloroPropane	29149200		10:03	4.65	32.05	0.17	31.4	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	1.94	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	7120290		10:14	2.55	14.29	0.21	14.0	n
NDMA	*		NotFnd	0.98	*	15.34	-	n
2-Chloropyridine	129019000		11:07	-	259.22	-	-	n

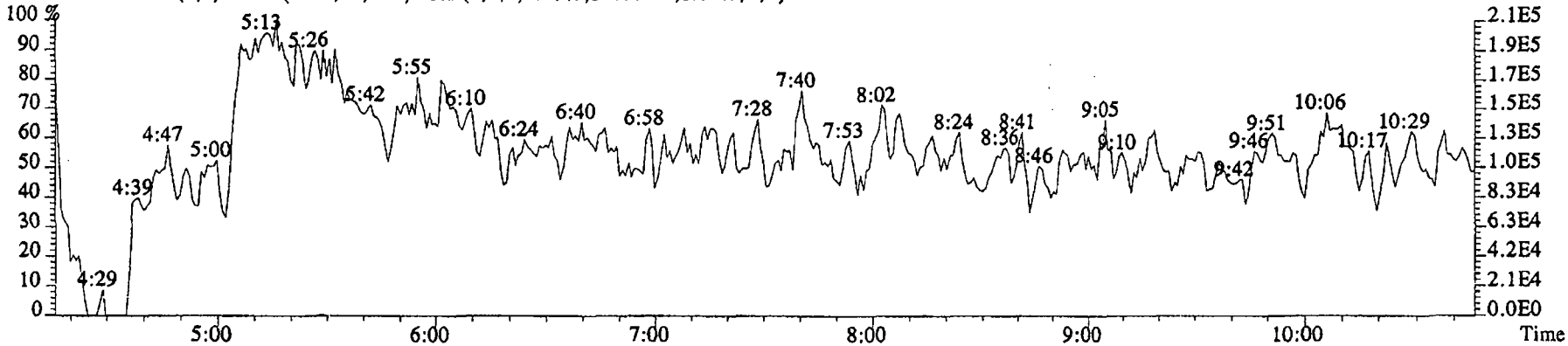
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
88.0524 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31604.0,1.00%,F,T)



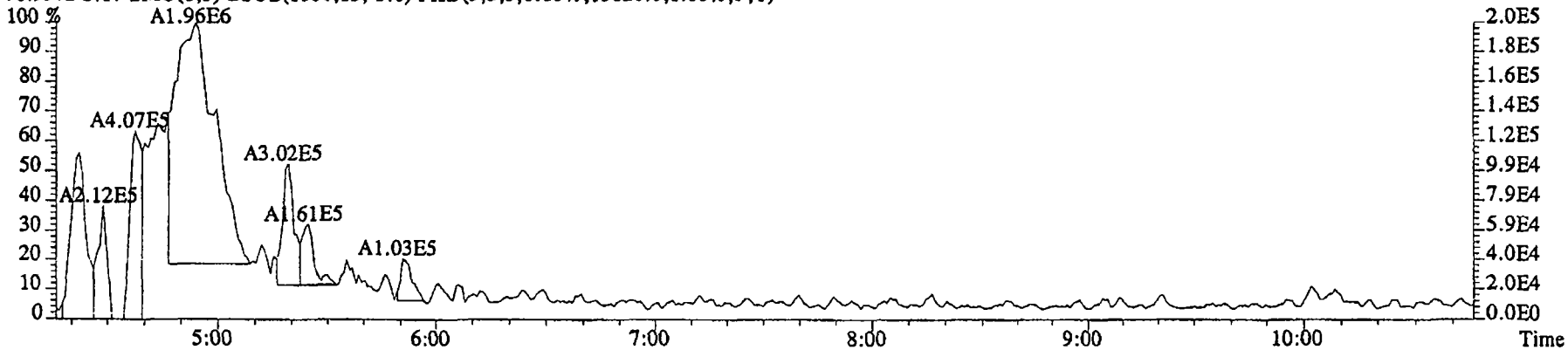
96.1026 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8336.0,1.00%,F,T)



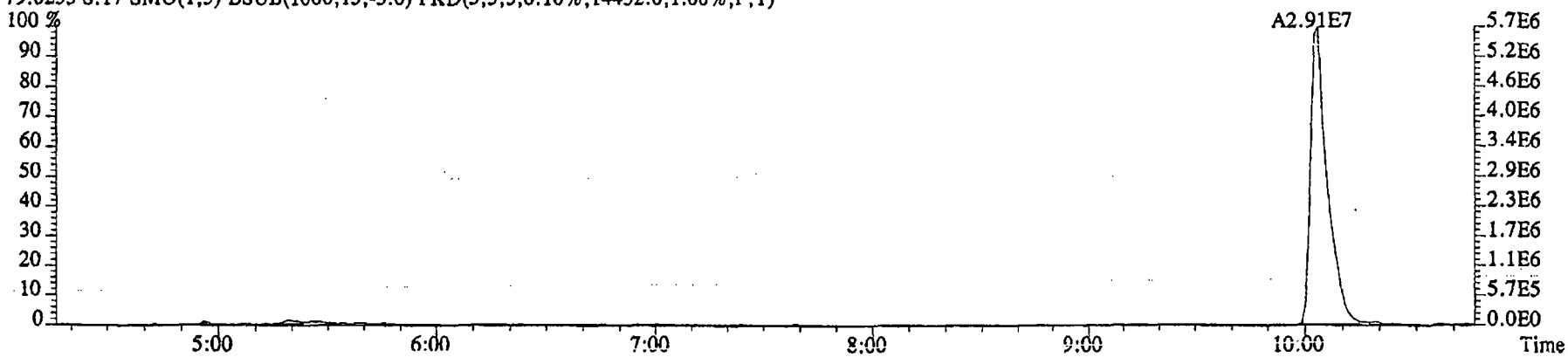
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
75.0002 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,150536.0,1.00%,F,T)



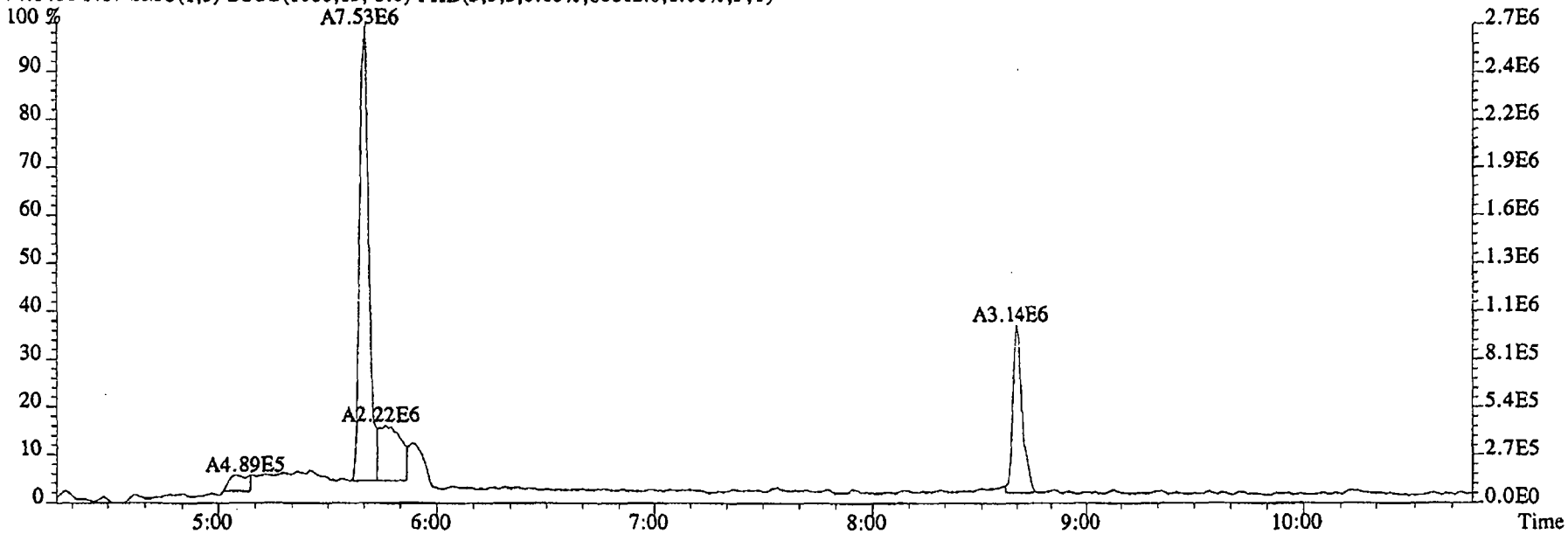
76.9972 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13820.0,1.00%,F,T)



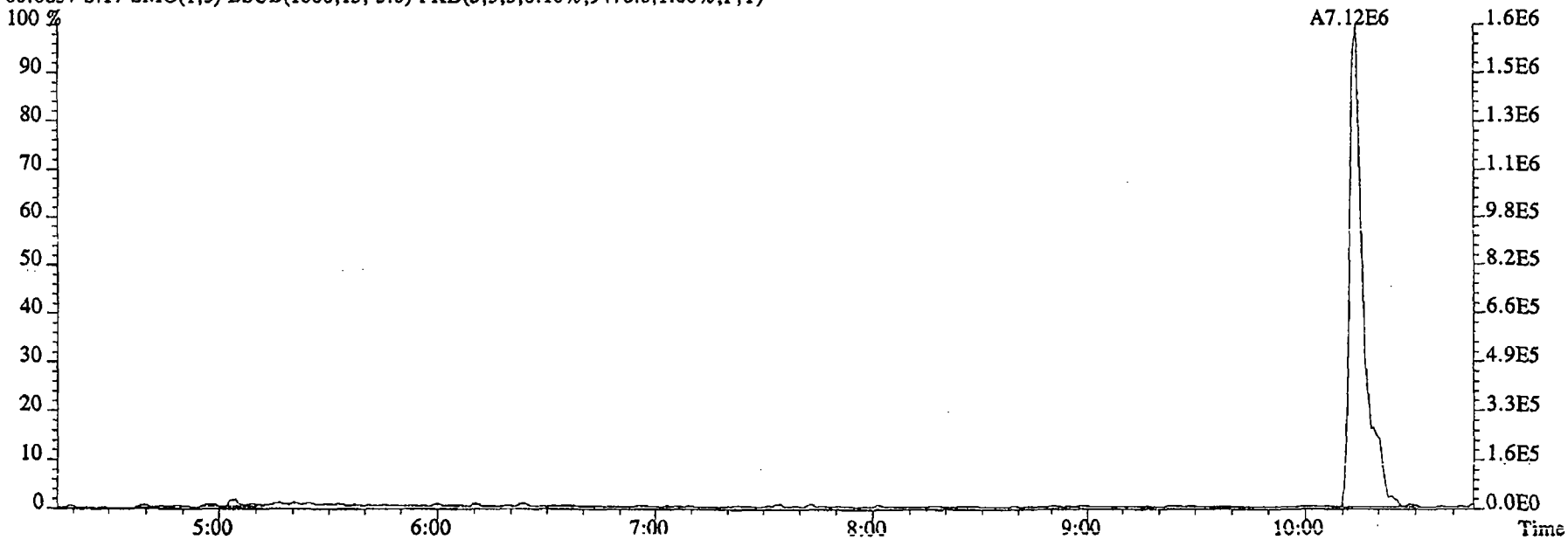
79.0253 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14432.0,1.00%,F,T)



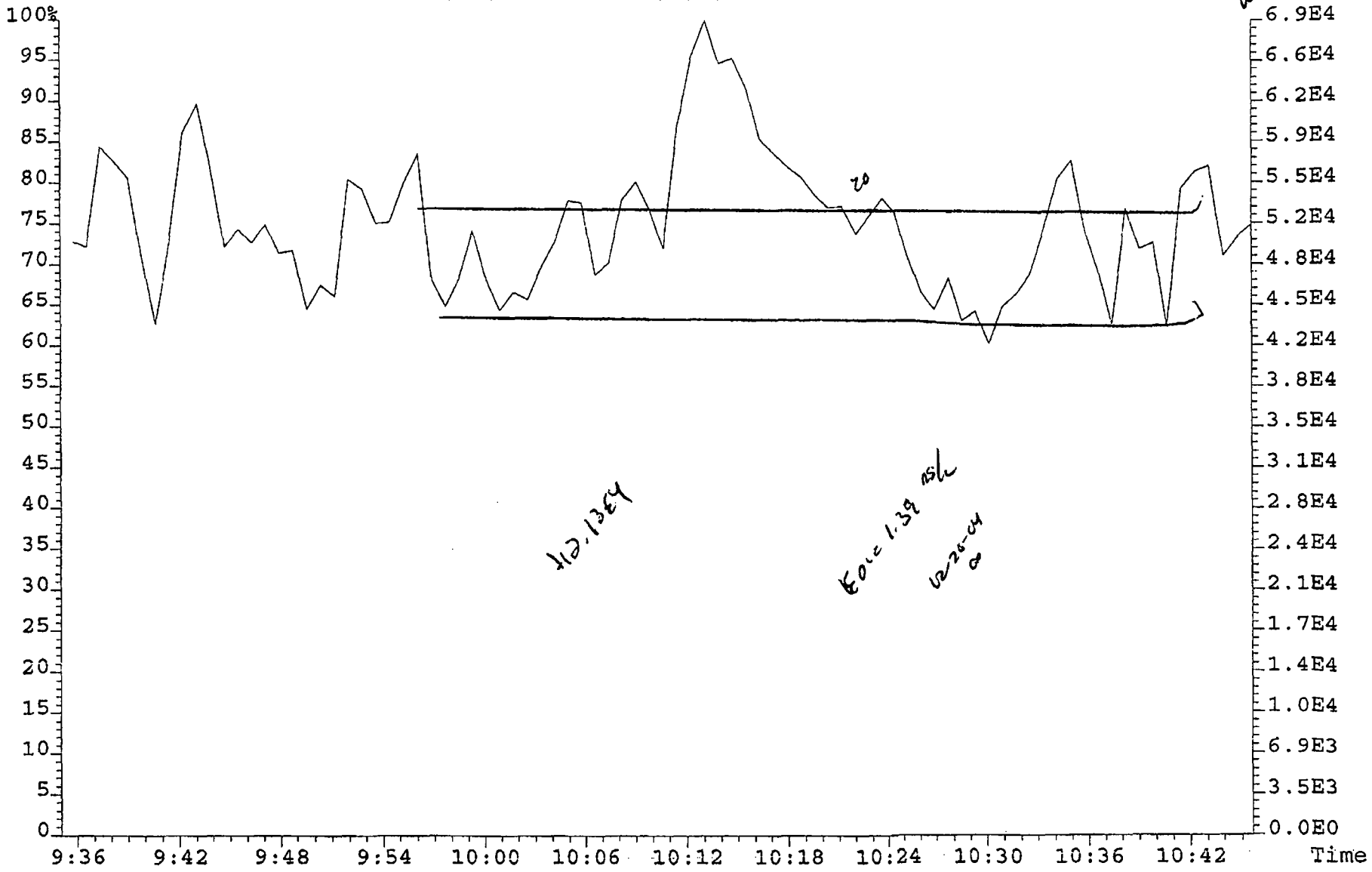
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
74.0480 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80612.0,1.00%,F,T)



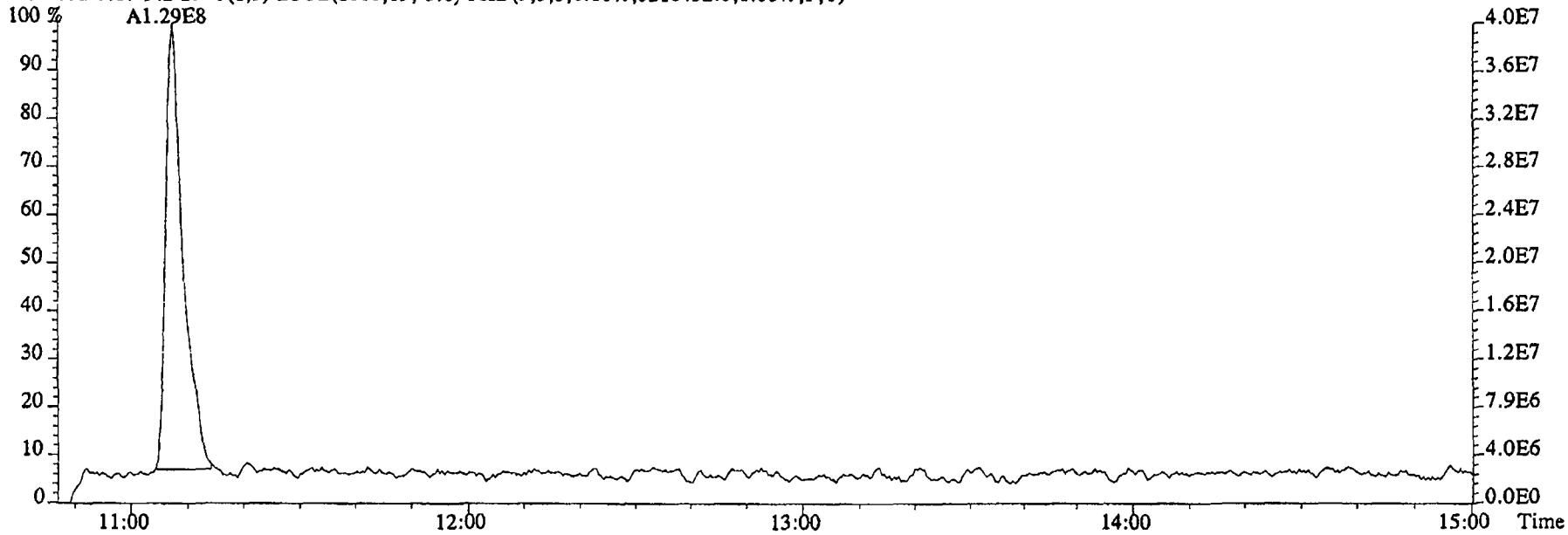
80.0857 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9476.0,1.00%,F,T)



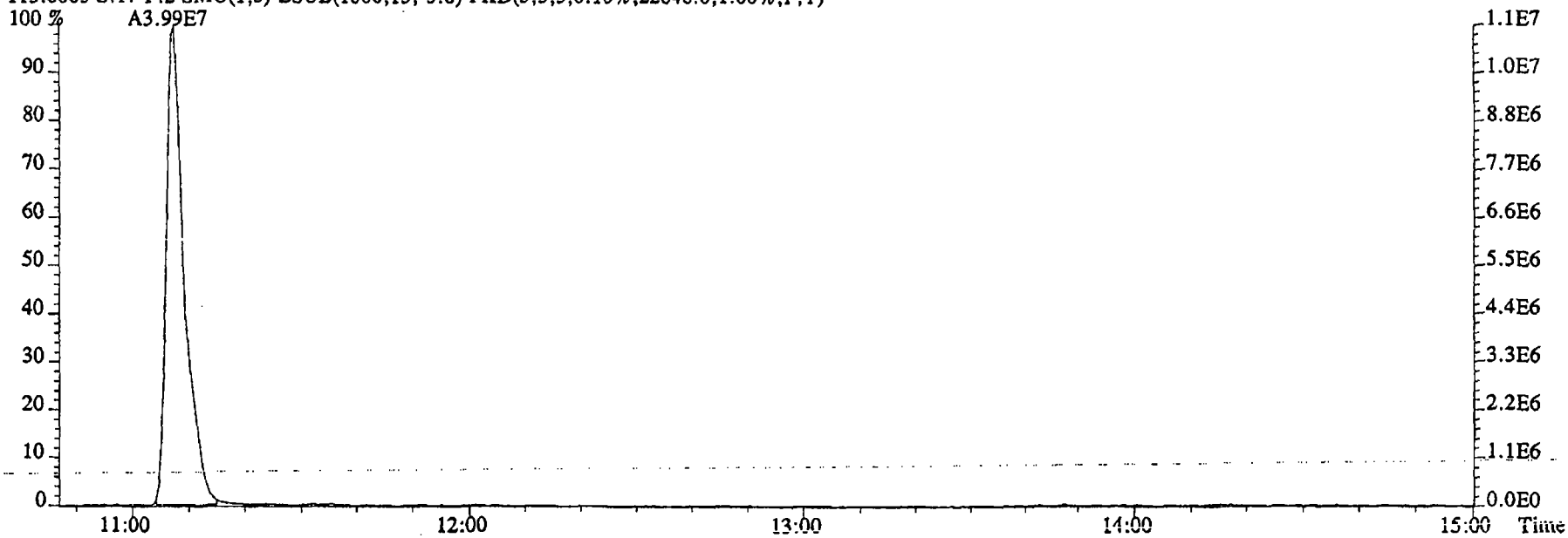
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
74.0480 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80612.0,1.00%,F,T)



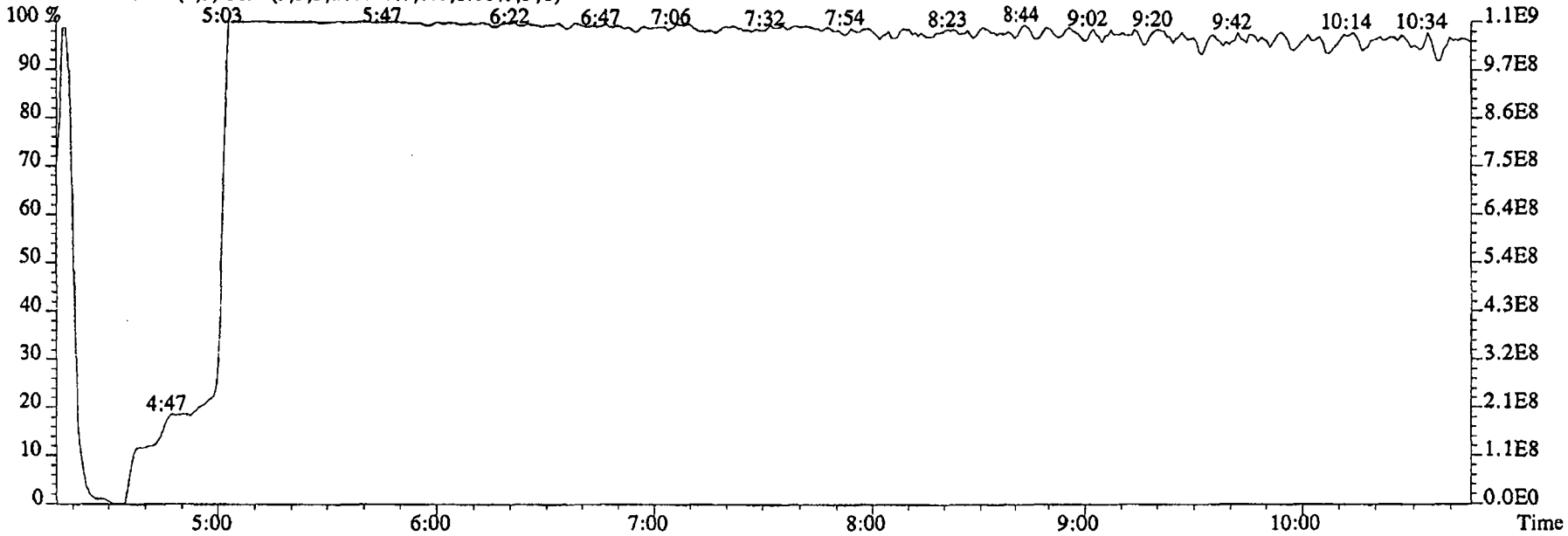
File:09DE045SP #1-590 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
113.0032 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3218432.0,1.00%,F,T)



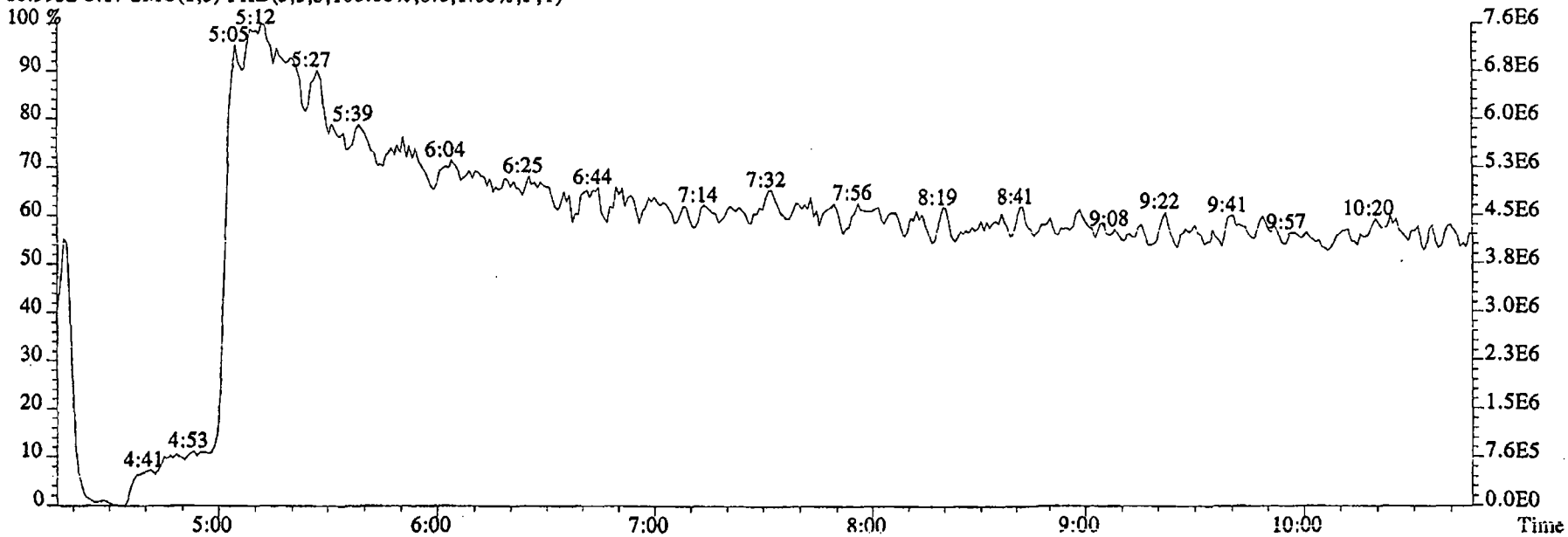
115.0003 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22648.0,1.00%,F,T)



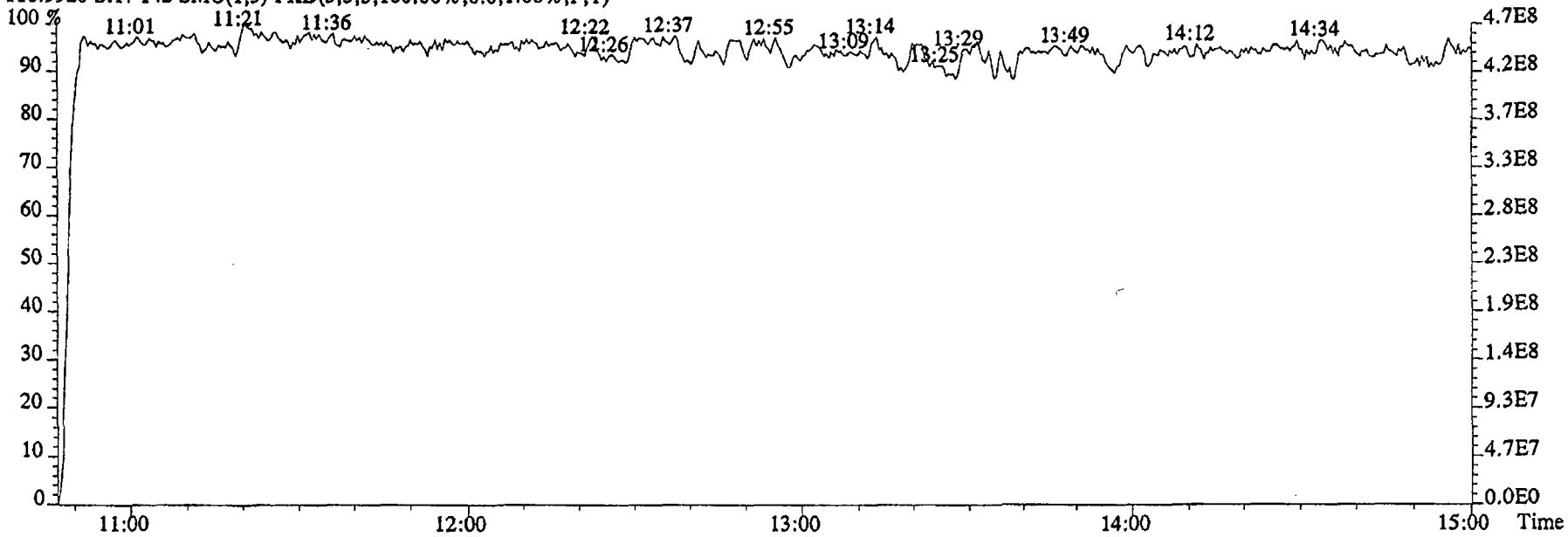
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
68.9952 S:17 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



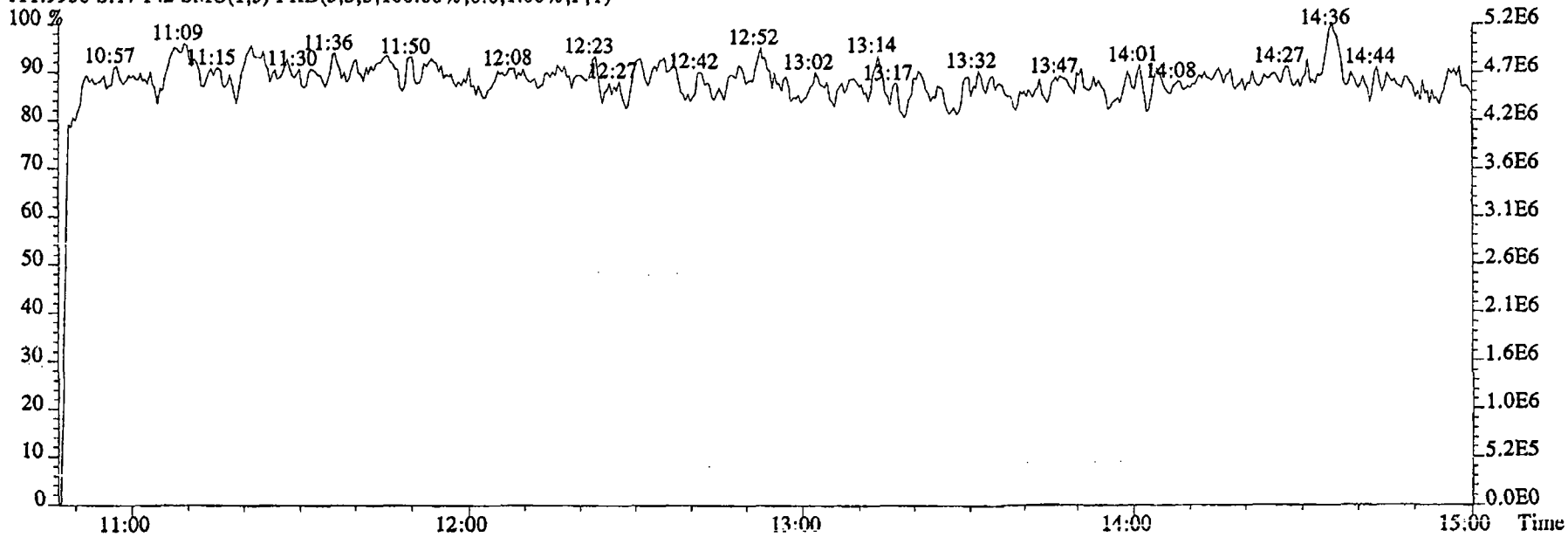
80.9952 S:17 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-590 Acq: 9-DEC-2004 23:38:44 GC EI+ Voltage SIR 70SE
Sample#17 Text:G0GVD-1-AC :G4L070405-5 Exp:NDMAVOA
118.9920 S:17 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:17 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: G0GVE-1-AC Sample text: G0GVE-1-AC :G4L070405-6
Run #15 Filename: 09DE045SP S: 18 I: 1 Results: 09DE045SP1625
Acquired: 9-DEC-04 23:59:09 Processed: 10-DEC-04 09:14:11
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.980 L

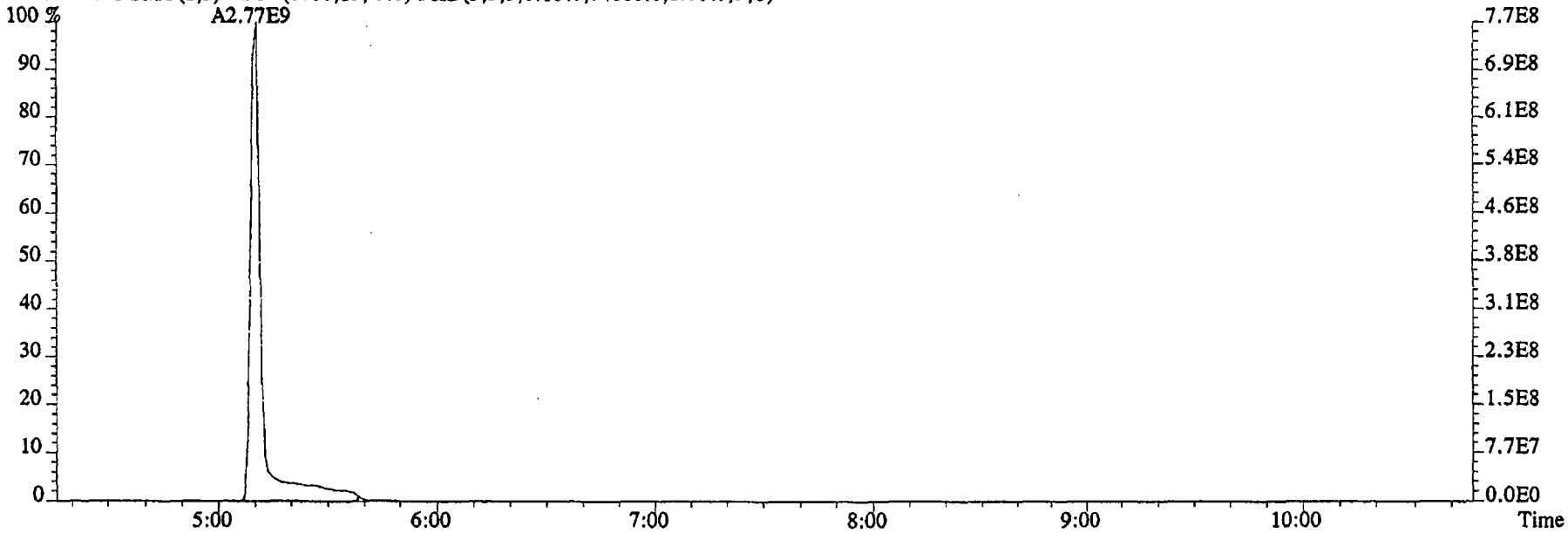
Name	Resp	RA	RT	RRF	Conc		EDL	Rec	M
2-Chloropyridine	49074100		11:07	-	318.81		-	-	n
D8-1,4-Dioxane	38956100		5:10	1.11	145.38		0.23	14.2	n
1,4-Dioxane	2766150000		5:10	1.15	63249.31		16.03	-	n
D5-123-TriChloroPropane	50281700		10:03	4.65	44.95		0.16	44.1	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	<5.0	2.21	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	8641710		10:14	2.55	14.11		0.24	13.8 *	n
NDMA	259080		10:13	0.98	3.11 ✓		~~12.75~~ 1.20	-	n
2-Chloropyridine	156057000		11:07	-	313.54		-	-	n

12-20-04

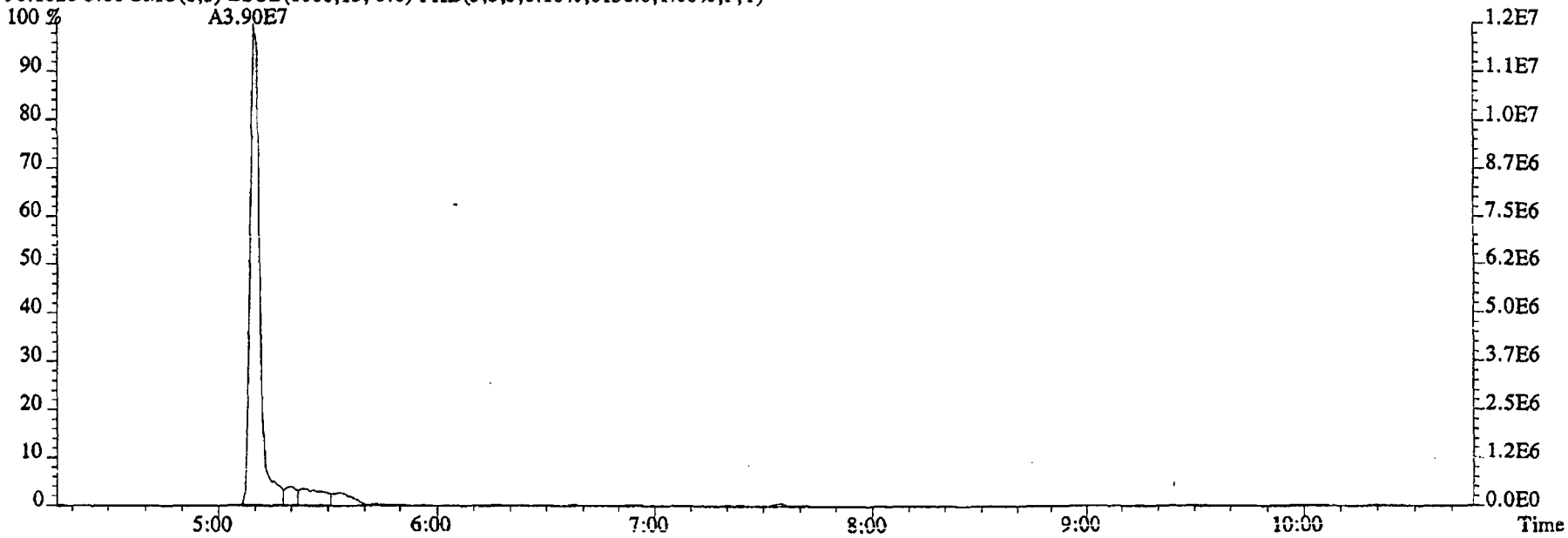
Run text: G0GVE-1-AC Sample text: G0GVE-1-AC :G4L070405-6
Run #15 Filename: 09DE045SP S: 18 I: 1 Results: KAS
Acquired: 9-DEC-04 23:59:09 Processed: 10-DEC-04 09:14:11
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP
Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.980 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	49074100		11:07	-	318.81	-	-	n
D8-1,4-Dioxane	38956100		5:10	1.11	145.38	0.23	14.2	n
1,4-Dioxane	2766150000		5:10	1.15	63249.31	16.03	-	n
D5-123-TriChloroPropane	50281700		10:03	4.65	44.95	0.16	44.1	n
1,2,3-TriChloroPropane	*		NotFnd	0.38	*	2.21	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	8641710		10:14	2.55	14.11	0.24	13.8	n
NDMA	259080		10:13	0.98	3.11	13.75	-	n
2-Chloropyridine	156057000		11:07	-	313.54	-	-	n

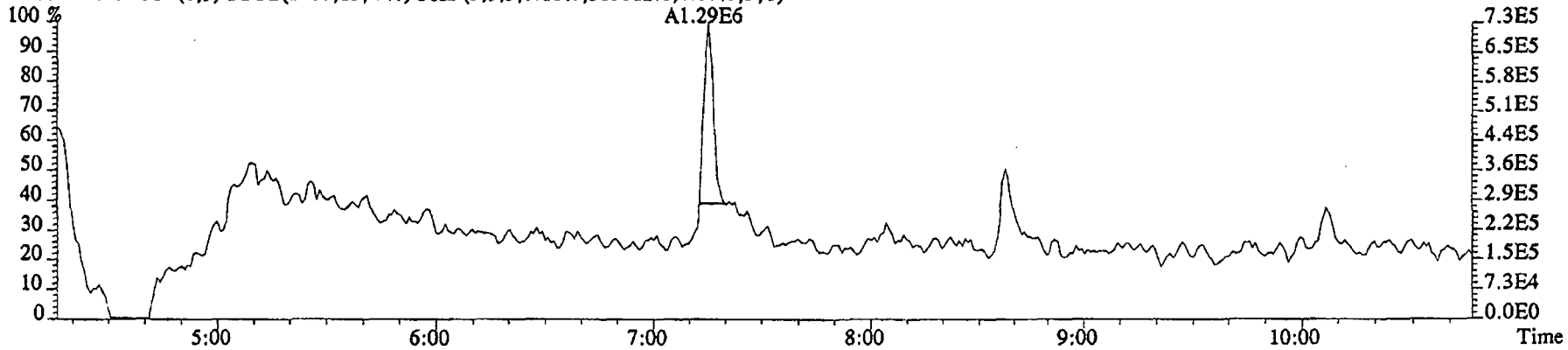
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
88.0524 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,74880.0,1.00%,F,T)



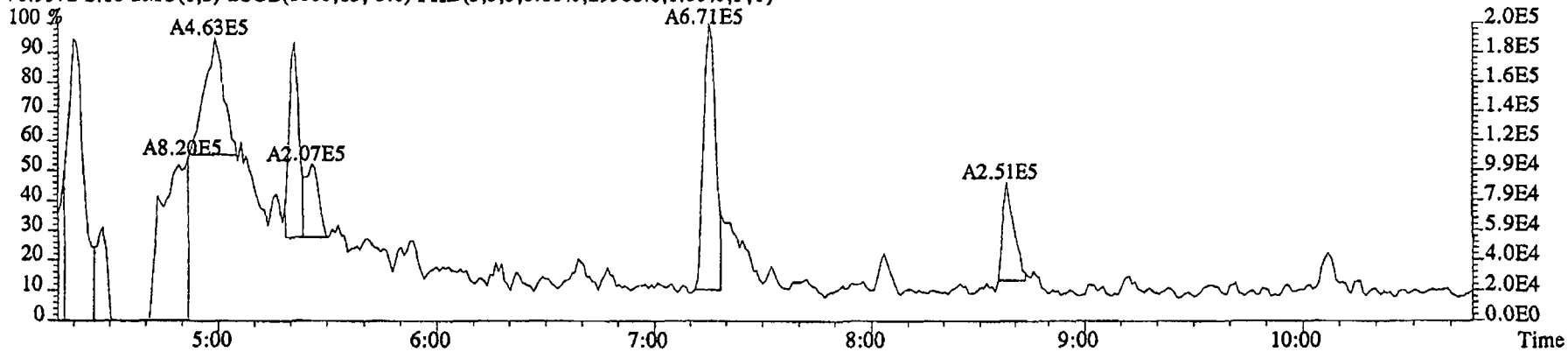
96.1026 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6156.0,1.00%,F,T)



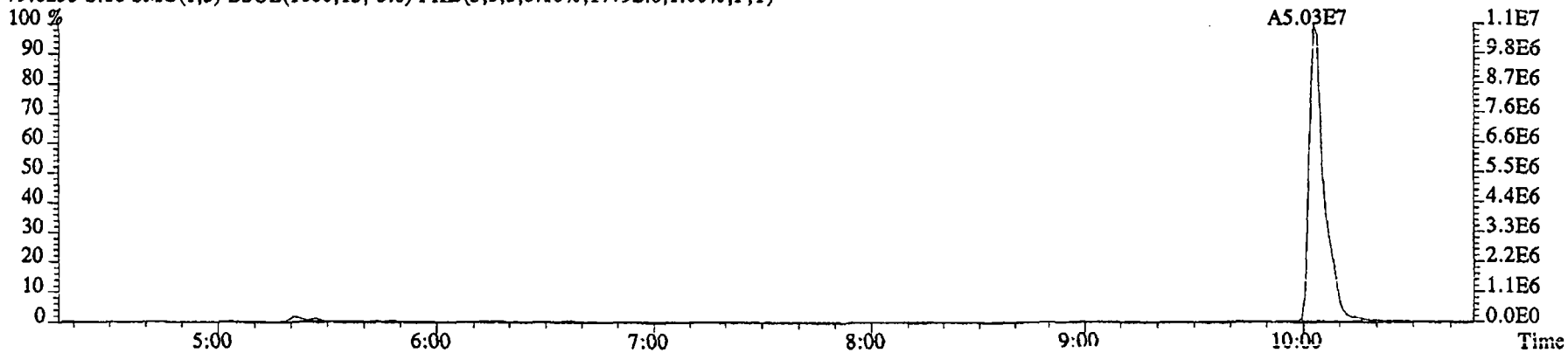
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
75.0002 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,313012.0,1.00%,F,T)



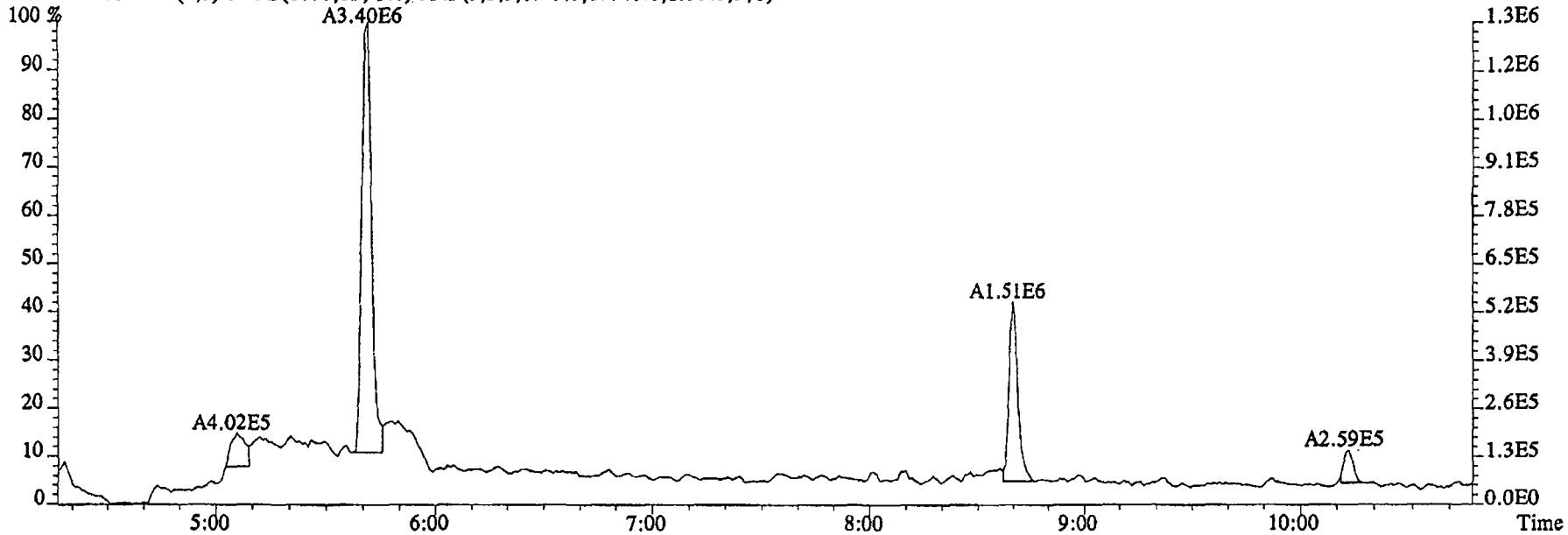
76.9972 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29968.0,1.00%,F,T)



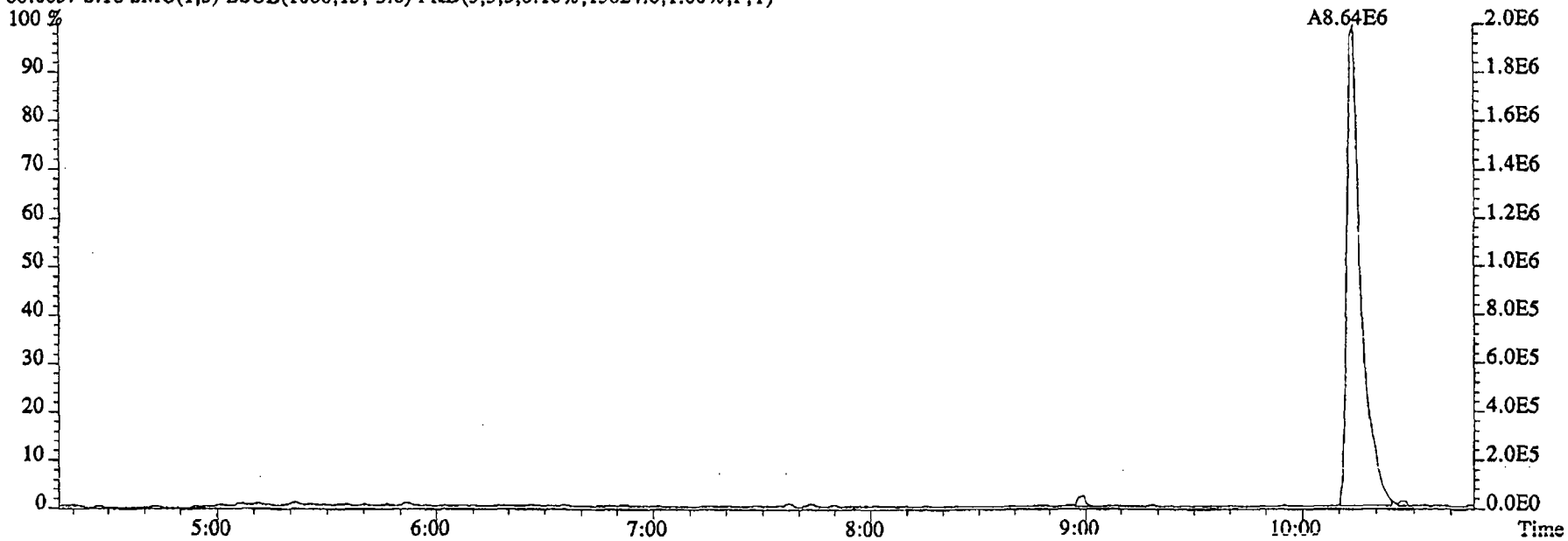
79.0253 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17792.0,1.00%,F,T)



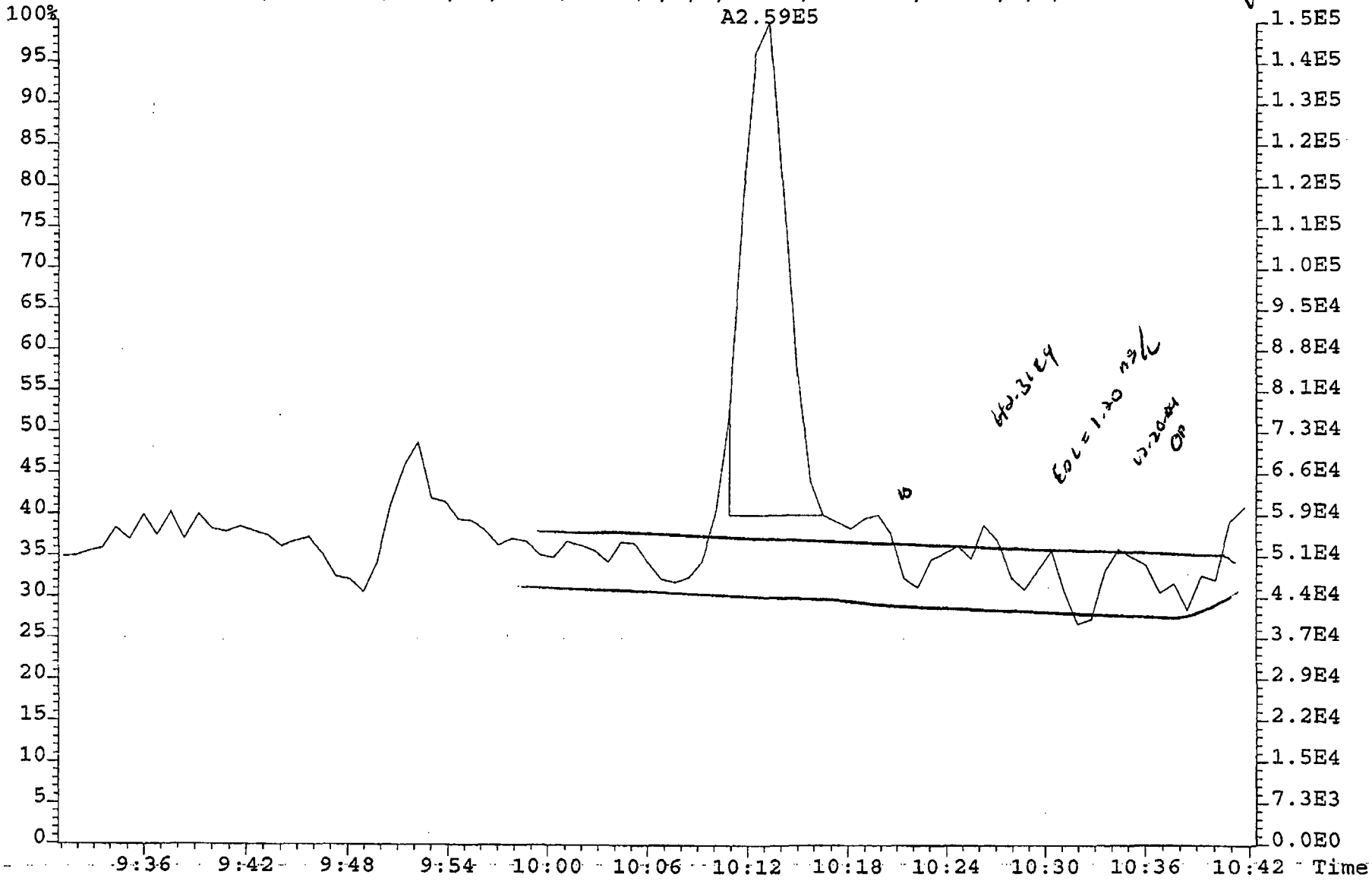
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
74.0480 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,87740.0,1.00%,F,T)



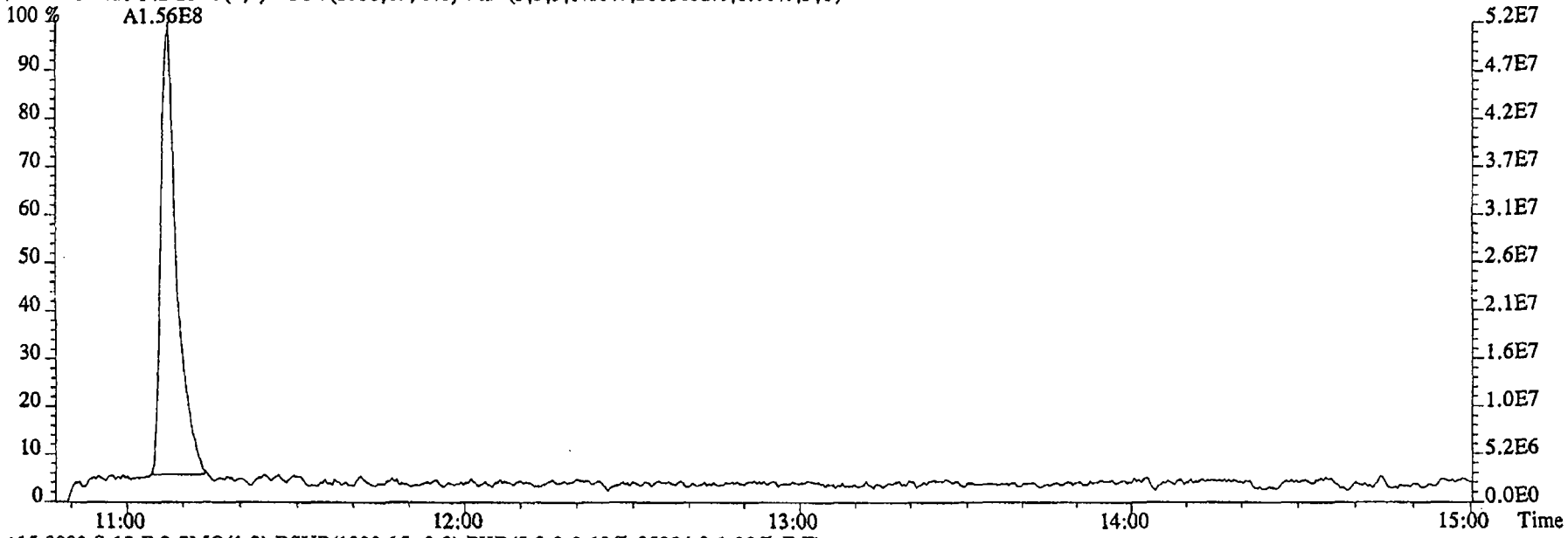
80.0857 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15024.0,1.00%,F,T)



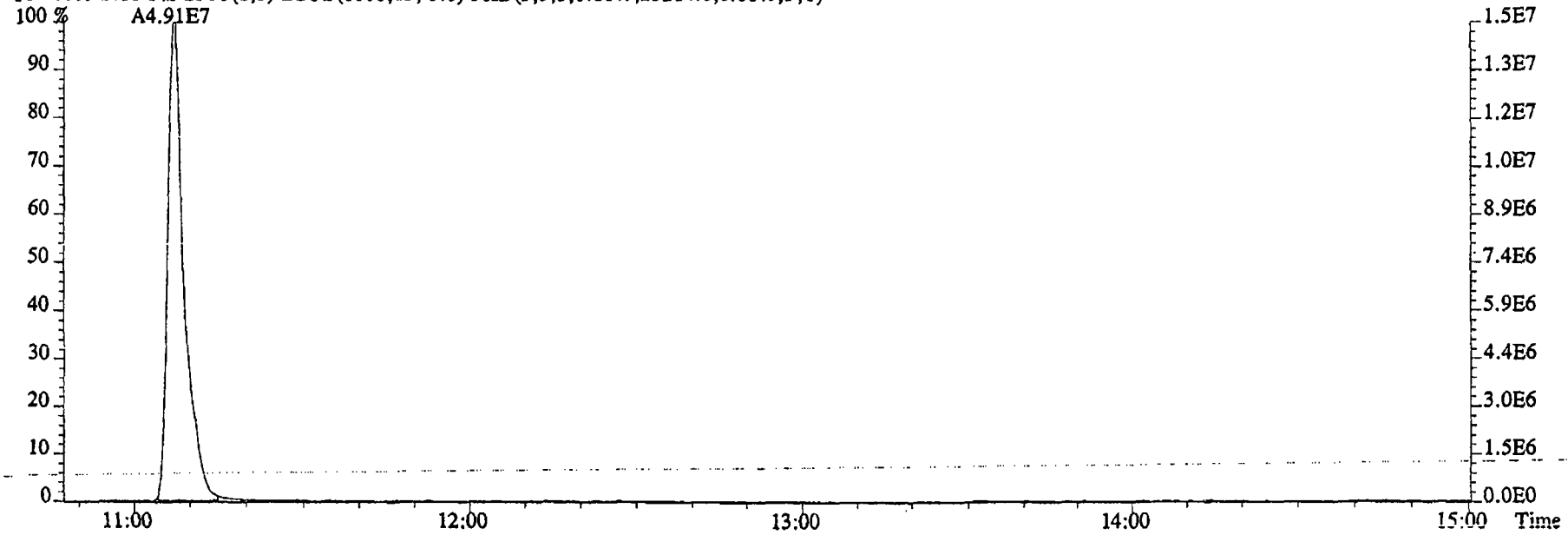
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
74.0480 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,87740.0,1.00%,F,T)



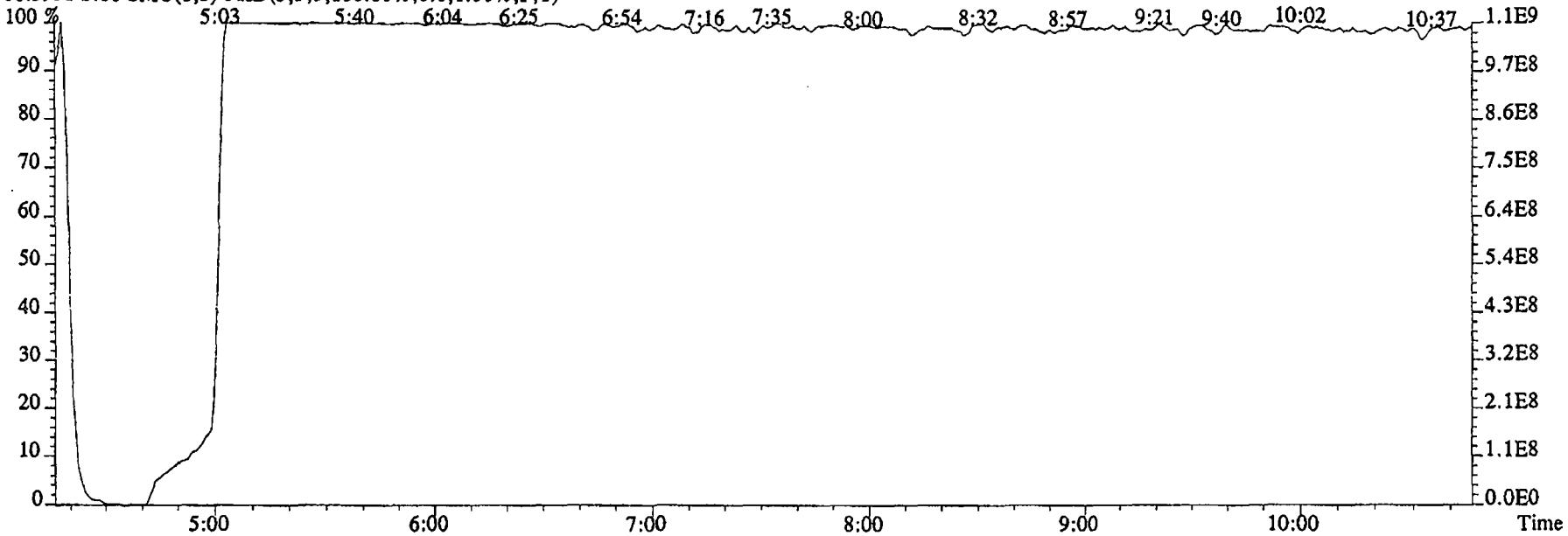
File:09DE045SP #1-590 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
113.0032 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2683852.0,1.00%,F,T)



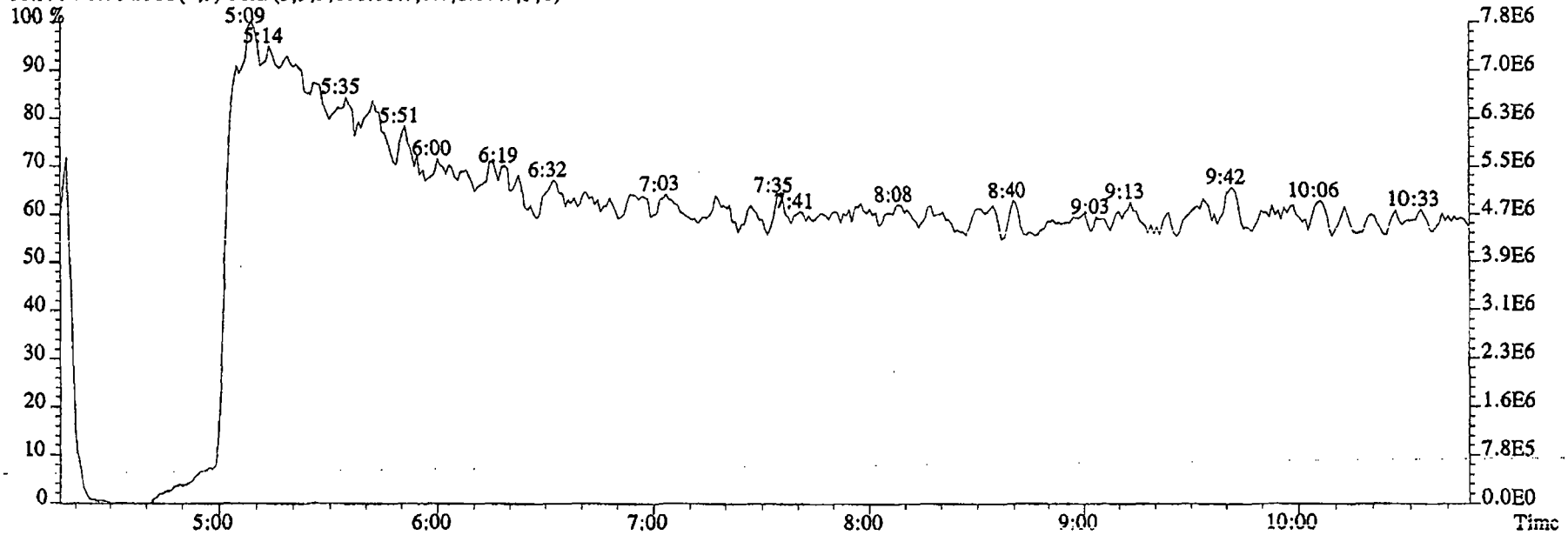
115.0003 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25284.0,1.00%,F,T)



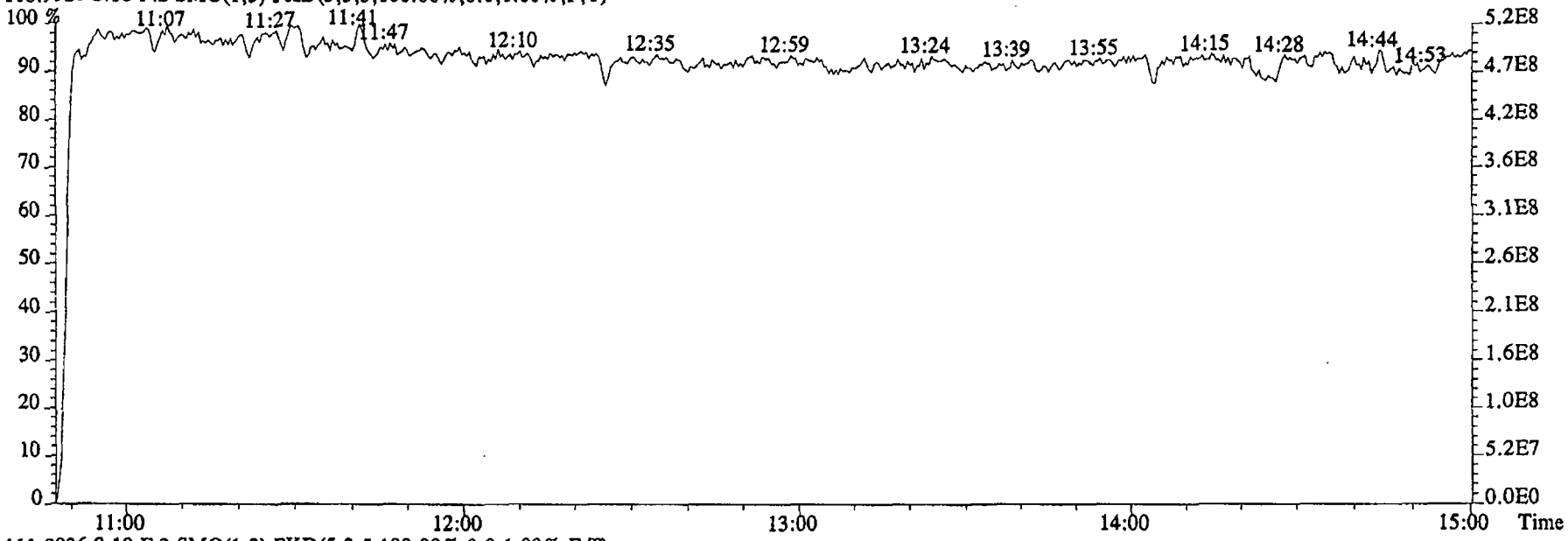
File:09DE045SP #1-481 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
68.9952 S:18 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



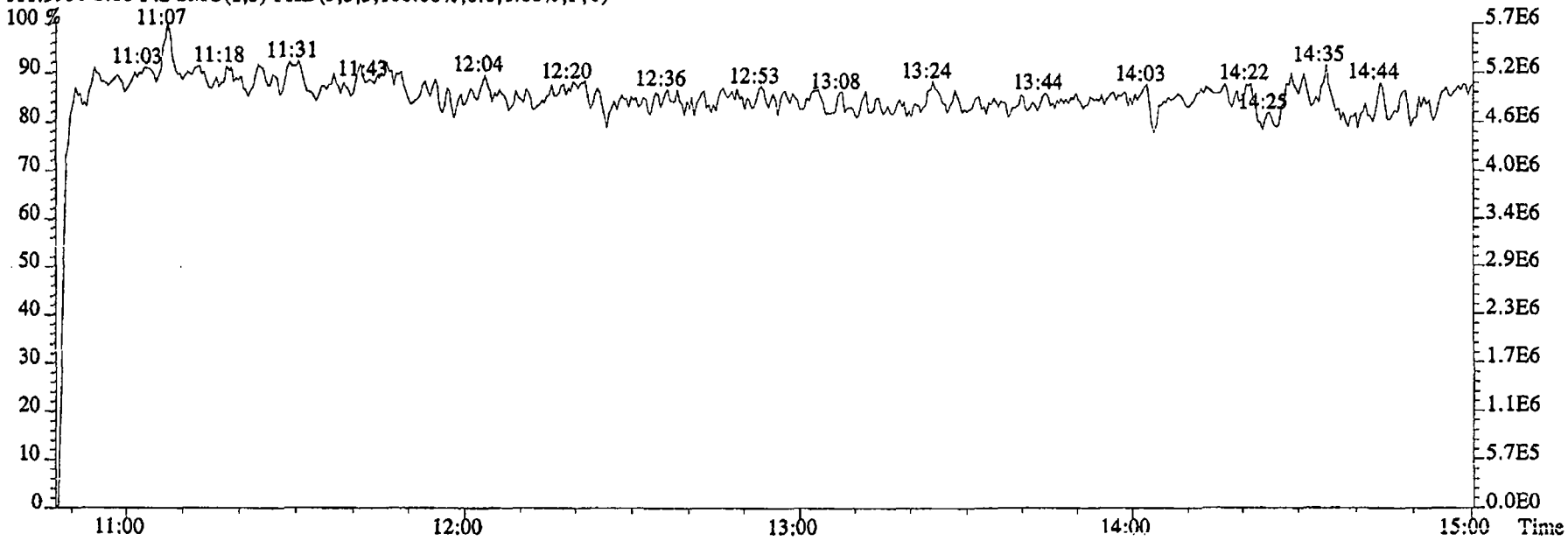
80.9952 S:18 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-590 Acq: 9-DEC-2004 23:59:09 GC EI+ Voltage SIR 70SE
Sample#18 Text:G0GVE-1-AC :G4L070405-6 Exp:NDMAVOA
118.9920 S:18 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:18 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



SEVERN TRENT SERVICES

Daily Standard Checklist
High Resolution

Method ID 1625 | Associated ICAL 1625120904 5SP

Column ID 5SP | Instrument ID 5SP

STD ID ST1209F | STD Solution 2350-68C

Analyzed By AM | Date Analyzed 12/9/04

Prepared By KS | Date Prepared 12/13/04

Reviewed By epichell | Date Reviewed 12-14-04

ANALYSIS OF CCAL	INITIATED	REVIEWED
Standard, ~~CPSM,~~ and Solvent Blank present?	✓	✓
Copy of log-file and Static Resolution present?	✓	✓
CPSM blow up present?	NA	NA
Curve Summary present?		✓
Summary of Method criteria present?	NA	NA
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	NA	NA
CPSM valley ≤ method specified limits?**	NA	NA
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard and ending Static Resolutions present	NA	NA

COMMENTS:

* Method 8290: (beginning) +/- 20% from curve RRFs for native analytes, +/- 30% from curve RRFs for labeled compounds.
Method 8290: (ending) +/- 25% from curve RRFs for native analytes, +/- 35% from curve RRFs for labeled compounds.
Method 8290 (GB): +/- 30% from curve RRFs for native analytes.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613A/1613B: See Method 1613A, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
PAH: +/- 30% from curve RRFs for native and labeled compounds.
PCB: +/- 30% from curve RRFs for native and 50% for labeled compounds.
NCASI 551: +/-20% from curve RRFs for native and labeled compounds.
DBD/DBF: +/-30% from curve RRFs for native analytes; +/- 40% from curve RRFs for labeled compounds.

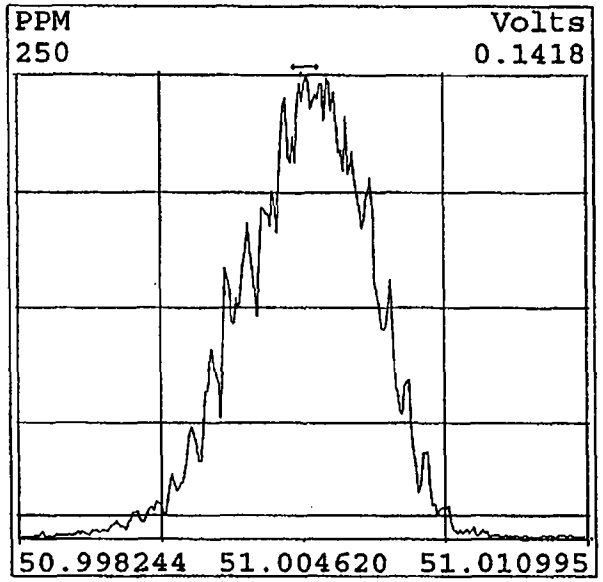
** Method 23 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and the closest eluters normalized at the smallest peak height of the three peaks (with the 2378 peak being the middle peak).
551/1613A/1613B/8290 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.
GB CPSM Criteria: 30% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

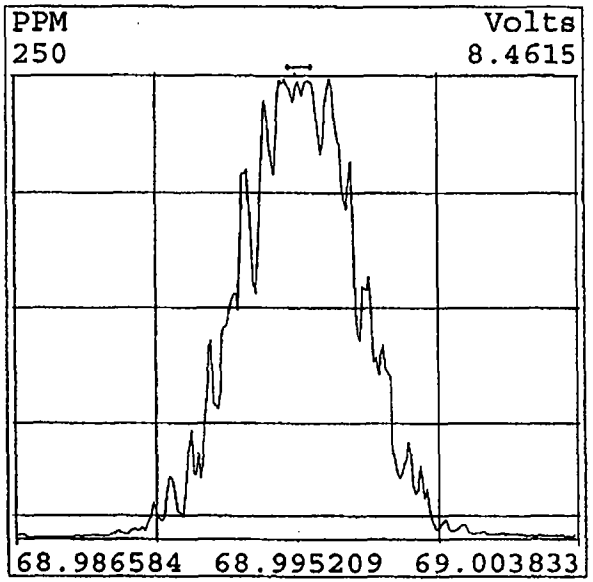
Run text: ST1209F File text: ST1209F :CS3 2350-68C
Run #6 Filename 09DE045SP S: 8 I: 1
Acquired: 9-DEC-04 20:34:54 Processed: 9-DEC-04 20:53:13
Run: 09DE045SP Analyte: 1625 Cal: 16251209045SP Results: 09DE045SP1625

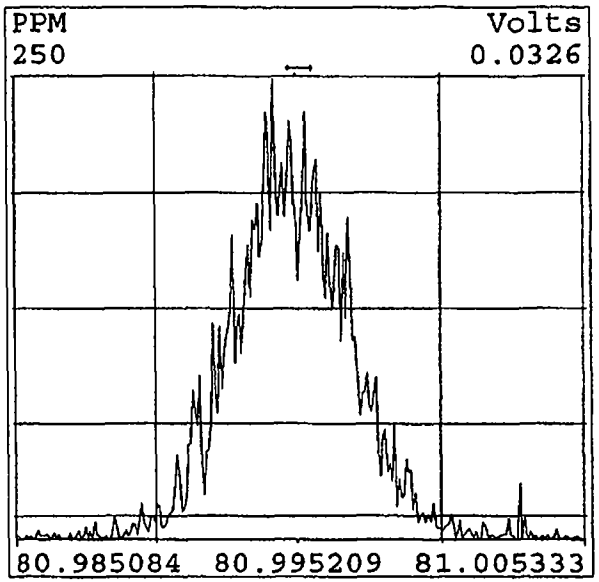
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	17067900		11:07	-	200.00	-	n
D8-1,4-Dioxane	109929000		5:07	1.29	1000.00	15.6	n
1,4-Dioxane	5636050		5:07	1.03	50.00	-10.5	n
D5-123-TriChloroPropane	44330600		10:03	5.19	100.00	11.7	n
1,2,3-TriChloroPropane	7727670		10:06	0.35	50.00	-8.4	n
1,2,3-TriChloroPropane	21652400		10:07	-	50.00	-	n
D6-NDMA	24680200		10:13	2.89	100.00	13.5	n
NDMA	11198100		10:13	0.91	50.00	-7.7	n
2-Chloropyridine	53718200		11:07	-	200.00	-	n

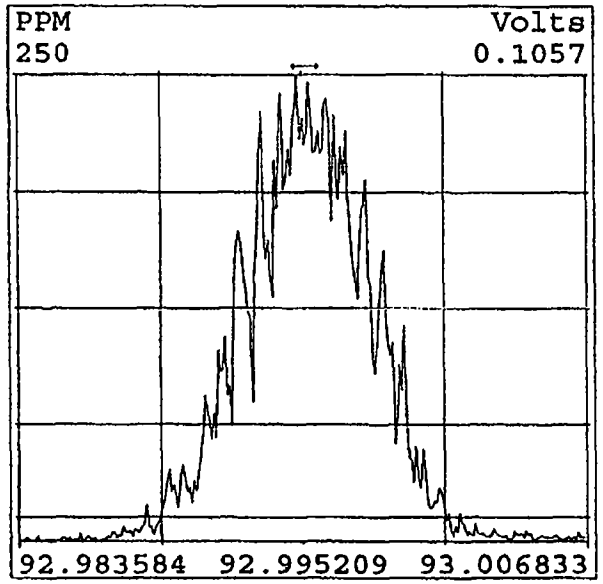
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
09DE045SP	1	ST1209	CS3 2350-68C				1.000	
09DE045SP	2	ST1209A	CS3 2350-68C				1.000	
09DE045SP	3	ST1209B	CS1 2350-68A				1.000	
09DE045SP	4	ST1209C	CS2 2350-68B				1.000	
09DE045SP	5	ST1209D	CS4 2350-68D				1.000	
09DE045SP	6	ST1209E	CS5 2350-68E				1.000	
09DE045SP	7	SB1209	Solvent Blank DCM				1.000	
09DE045SP	8	ST1209F	CS3 2350-68C				1.000	
09DE045SP	9	SB1209A	Solvent Blank DCM				1.000	
09DE045SP	10	G0FX0-1-ACC	G4L040125-1LCS	500	1625/WATER	VS52	1.000	L
09DE045SP	11	G0L0H-1-AAB	G4L070405-1MB	500	1625/WATER	VS53	1.000	L
09DE045SP	12	G0L0H-1-ACC	G4L070405-1LCS	500	1625/WATER		1.000	L
09DE045SP	13	G0GT8-1-AC	G4L070405-1	500	1625/WATER		0.934	L
09DE045SP	14	G0GT9-1-AC	G4L070405-2	500	1625/WATER		0.994	L
09DE045SP	15	G0GVA-1-AC	G4L070405-3	500	1625/WATER		0.979	L
09DE045SP	16	G0GVC-1-AC	G4L070405-4	500	1625/WATER		0.990	L
09DE045SP	17	G0GVD-1-AC	G4L070405-5	500	1625/WATER		0.980	L
09DE045SP	18	G0GVE-1-AC	G4L070405-6	500	1625/WATER		0.980	L
09DE045SP	19	G0HP5-1-AA	G4L080192-1	500	1625/WATER		0.984	L
09DE045SP	20	G0GPH-1-AA	G4L070386-1	500	1625/WATER		0.880	L
09DE045SP	21	SB1209B	Solvent Blank DCM				1.000	
09DE045SP	22	G0E5Q-1-AAB	G4L040212-10MB – Lost Lock RI	~~500~~	1625/WATER	VS53	10.000	g
09DE045SP	23	G0E5Q-1-ACC	G4L040212-10LCS	500	1625/WATER		10.000	g
09DE045SP	24	G0A84-1-AD	G4L040212-10	500	1625/WATER		10.000	g
09DE045SP	25	G0A85-1-AD	G4L040212-11	500	1625/WATER		10.000	g
09DE045SP	26	G0A86-1-AD	G4L040212-12	500	1625/WATER		10.000	g
09DE045SP	27	G0A87-1-AD	G4L040212-13	500	1625/WATER		10.000	g
09DE045SP	28	G0A88-1-AD	G4L040212-14	500	1625/WATER		10.000	g
09DE045SP	29	G0A89-1-AD	G4L040212-15	500	1625/WATER		10.000	g
09DE045SP	30	G0A9A-1-AD	G4L040212-16	500	1625/WATER		10.000	g
09DE045SP	31	G0A9C-1-AD	G4L040212-17	500	1625/WATER		10.000	g
09DE045SP	32	G0A9D-1-AD	G4L040212-18	500	1625/SOLID		10.000	g
09DE045SP	33	G0A9D-1-AGS	G4L040212-18MS	500	1625/SOLID		10.000	g
09DE045SP	34	G0A9D-1-AHD	G4L040212-18SD	500	1625/SOLID		10.000	g
09DE045SP	35	G0A9E-1-AD	G4L040212-19	500	1625/SOLID		10.000	g
09DE045SP	36	G0A9F-1-AD	G4L040212-20	500	1625/SOLID		10.000	g
09DE045SP	37	G0A9G-1-AD	G4L040212-21	500	1625/SOLID		10.000	g
09DE045SP	38	G0A9L-1-AD	G4L040212-25	500	1625/SOLID		10.000	g
09DE045SP	39	G0A9M-1-AD	G4L040212-26	500	1625/SOLID		10.000	g
09DE045SP	40	G0A9N-1-AD	G4L040212-27	500	1625/SOLID		10.000	g
09DE045SP	41	G0A9P-1-AD	G4L040212-28	500	1625/SOLID		10.000	g
09DE045SP	42	SB1209C	Solvent Blank DCM				1.000	
09DE045SP	43	SB1209D	Solvent Blank DCM				1.000	
09DE045SP	44	ST1209G	CS3 2350-68C				1.000	
09DE045SP	45	SB1209E	Solvent Blank DCM				1.000	
09DE045SP	46	G0A9Q-1-AD	G4L040212-29	500	1625/SOLID	VS53	10.000	g
09DE045SP	47	G0AR-1-AD	G4L040212-30	500	1625/SOLID		10.000	g
09DE045SP	48	G0AT-1-AD	G4L040212-31	500	1625/SOLID		10.000	g
DE045SP	49	G0AV-1-AD	G4L040212-32	500	1625/SOLID		10.000	g
09DE045SP	50	SB1209F	Solvent Blank DCM				1.000	
09DE045SP	51						1.000	
09DE045SP	52						1.000	
09DE045SP	53		AM 12-09-04				1.000	

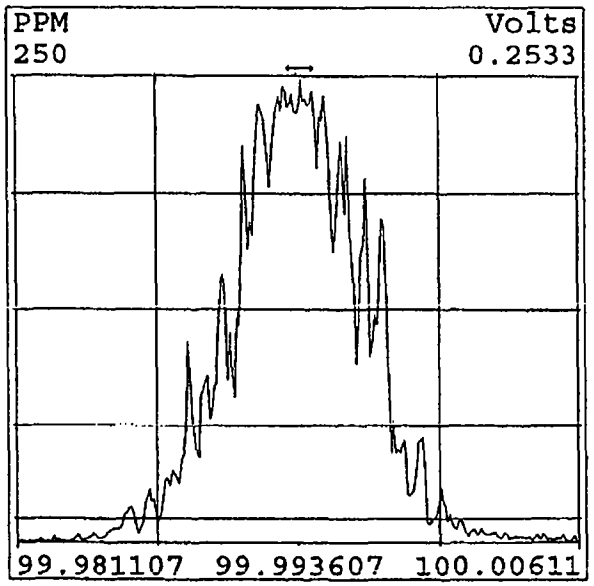
Peak Locate Examination: 9-DEC-2004:18:06 File:09DE045SP
Experiment:NDMAVOA Function:1 Reference:PFK









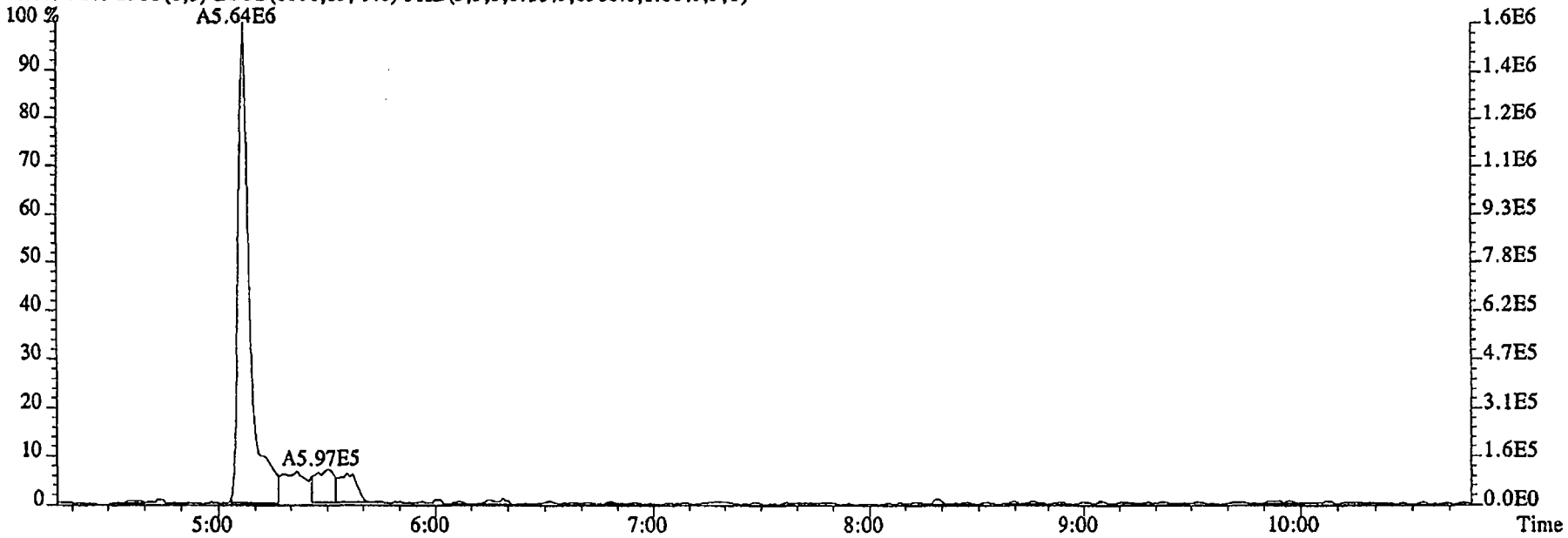


Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP

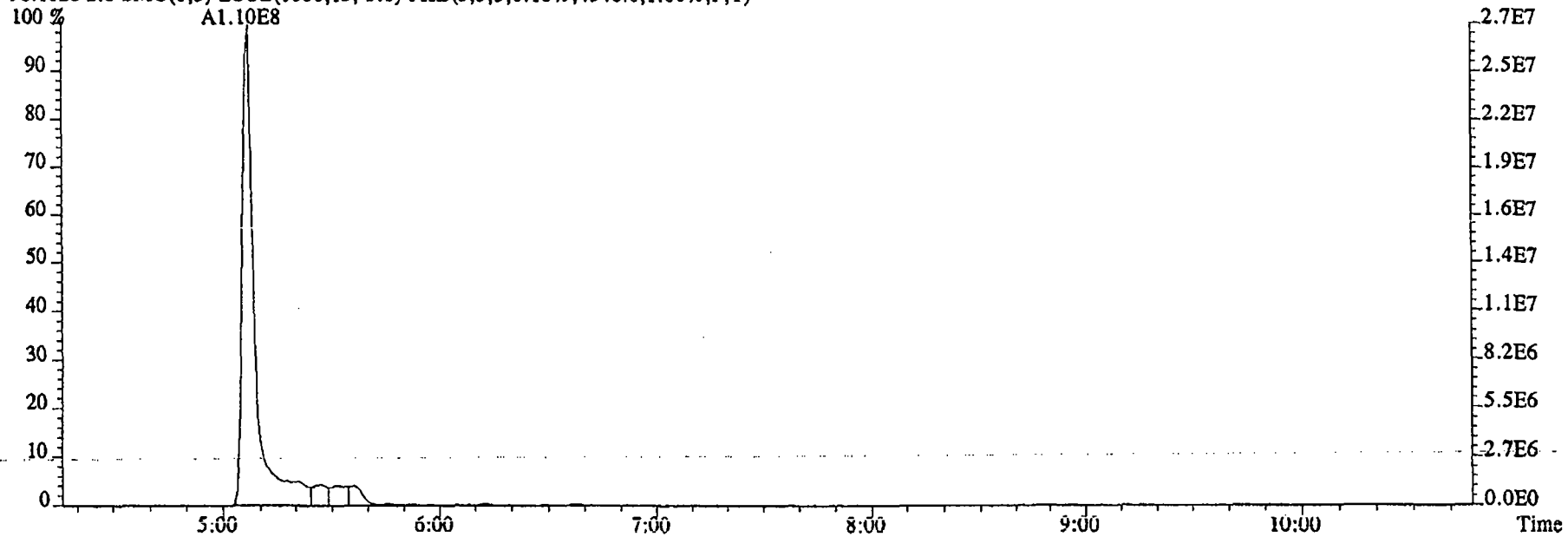
ST1209B :CS1 2350-68A ST1209C :CS2 2350-68B ST1209A :CS3 2350-68C
ST1209D :CS4 2350-68D ST1209E :CS5 2350-68E

Name	Mean	S. D.	%RSD	09DE045SP S3 RRF1	09DE045SP S4 RRF2	09DE045SP S2 RRF3	09DE045SP S5 RRF4	09DE045SP S6 RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	1.114	0.085	7.58 %	1.15	1.12	1.21	1.12	0.98
1,4-Dioxane	1.146	0.142	12.4 %	1.20	1.01	0.98	1.24	1.29
D5-123-TriChloroPropane	4.652	0.276	5.93 %	4.42	4.80	5.07	4.48	4.49
1,2,3-TriChloroPropane	0.380	0.022	5.74 %	0.42	0.37	0.36	0.38	0.37
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	2.548	0.145	5.70 %	2.44	2.74	2.64	2.53	2.39
NDMA	0.984	0.086	8.71 %	1.13	0.93	0.91	0.96	0.98
2-Chloropyridine	-	-	- %	-	-	-	-	-

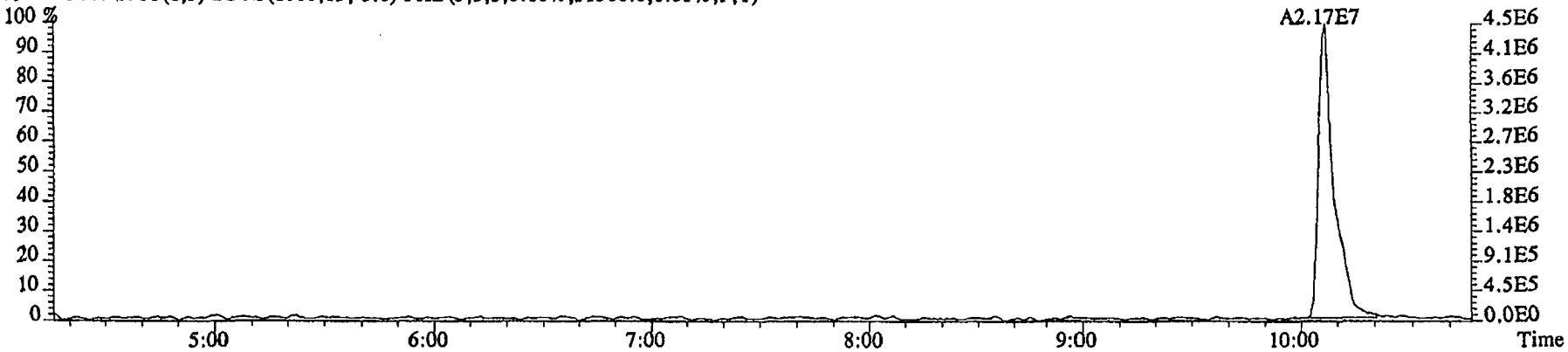
File:09DE045SP #1-481 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
88.0524 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6580.0,1.00%,F,T)



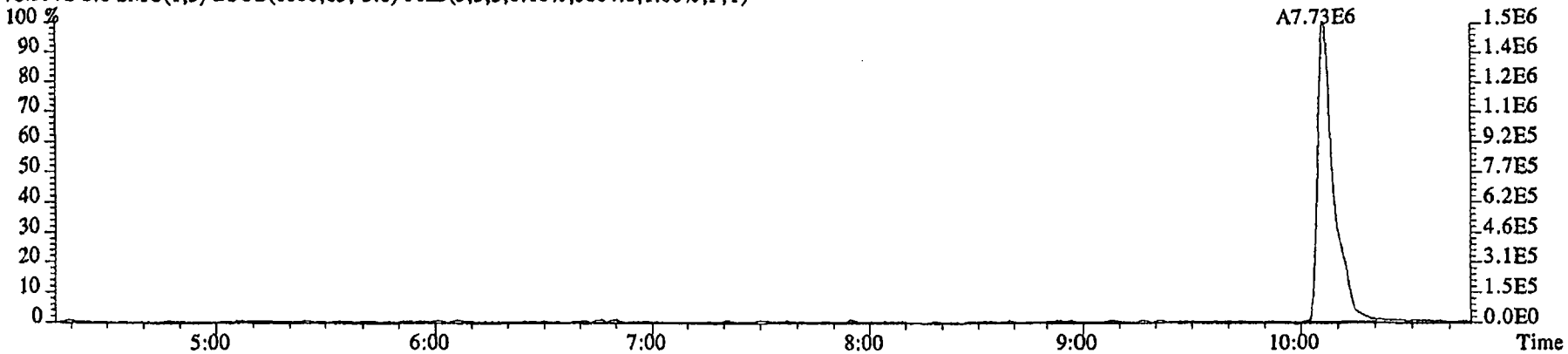
96.1026 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4348.0,1.00%,F,T)



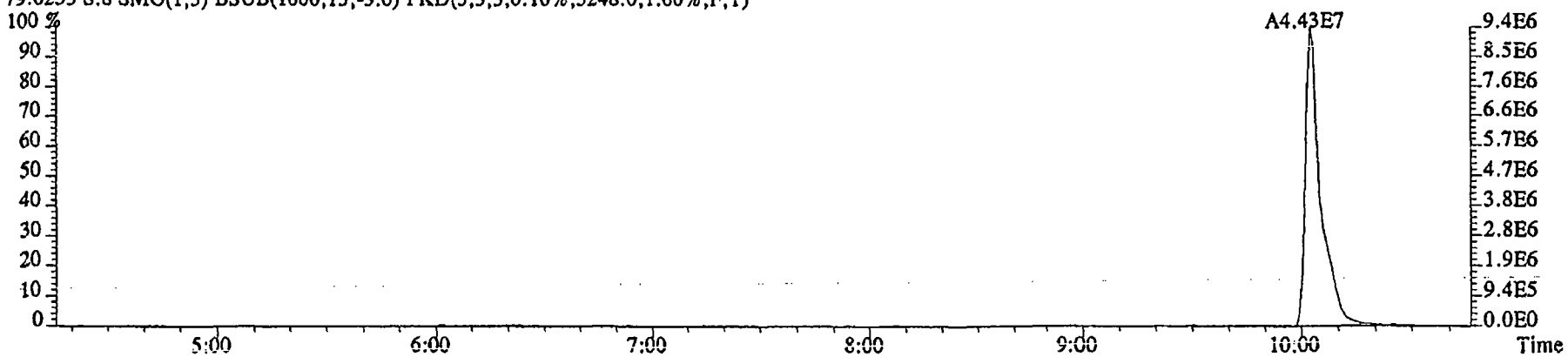
File:09DE045SP #1-481 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
75.0002 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,51560.0,1.00%,F,T)



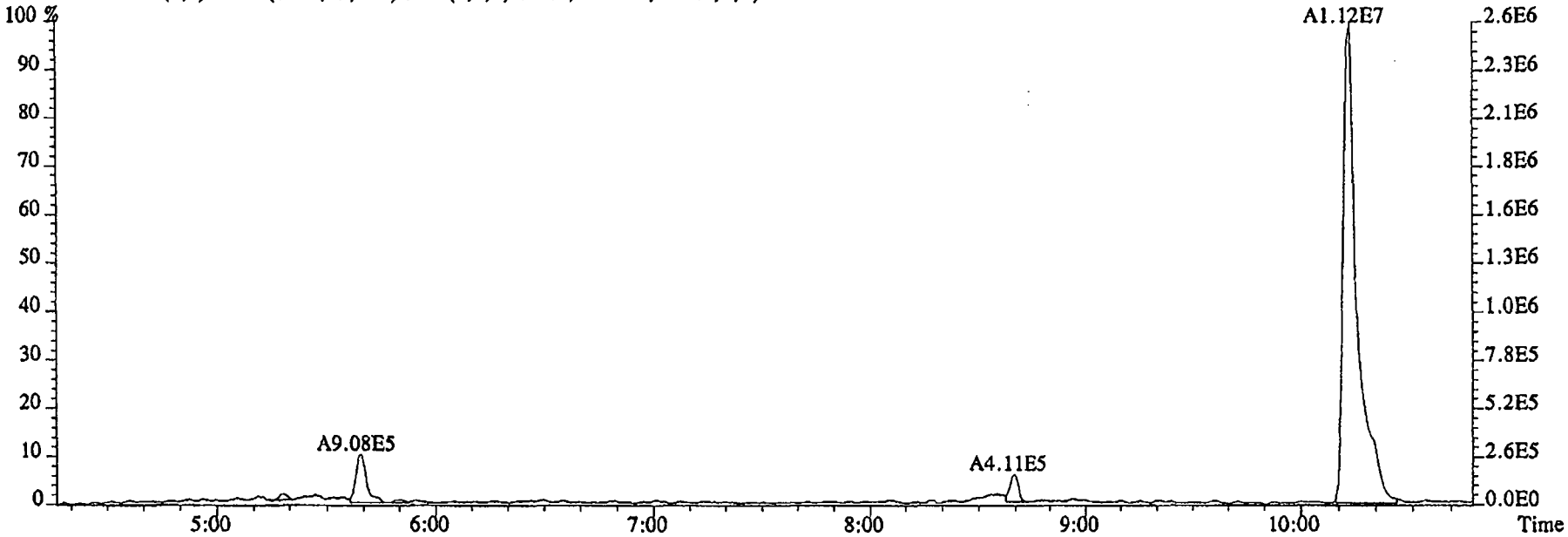
76.9972 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5804.0,1.00%,F,T)



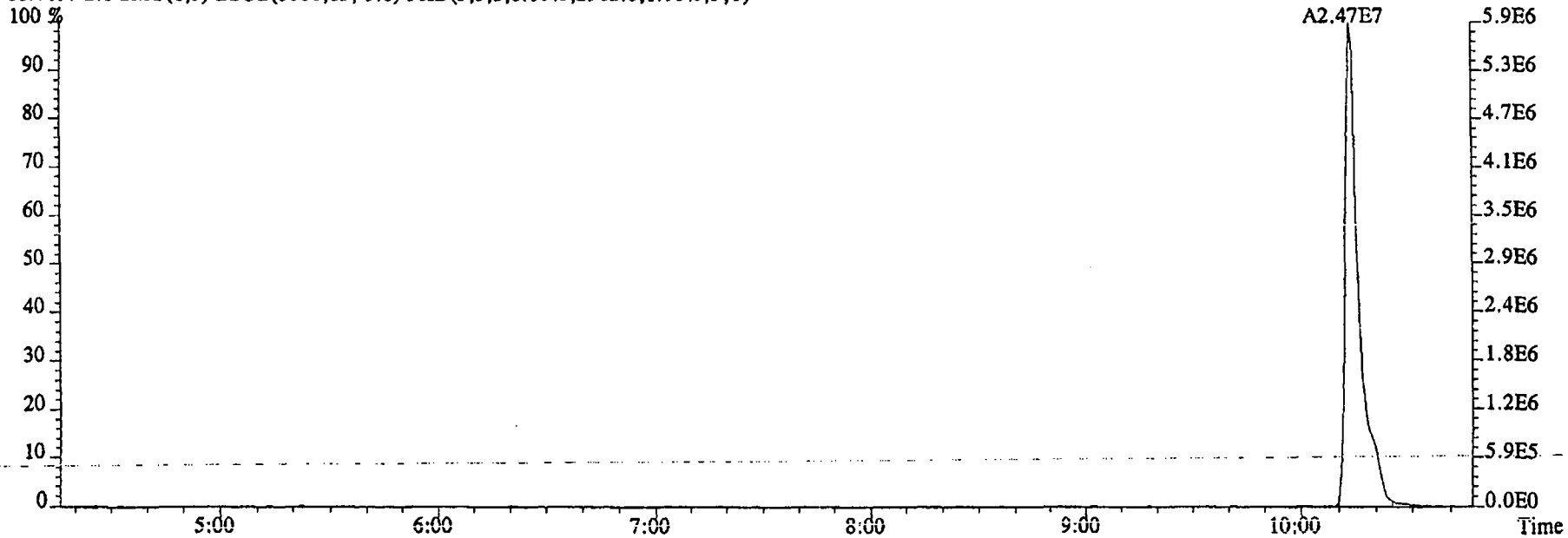
79.0253 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5248.0,1.00%,F,T)



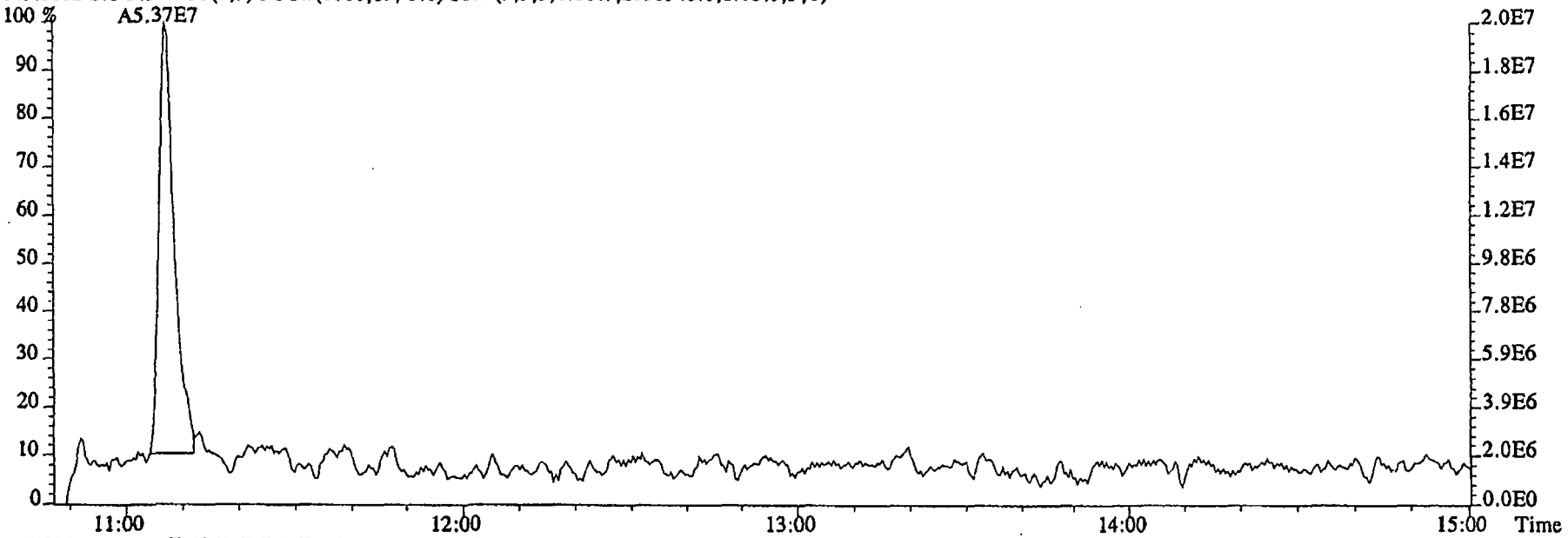
File:09DE045SP #1-481 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
74.0480 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22616.0,1.00%,F,T)



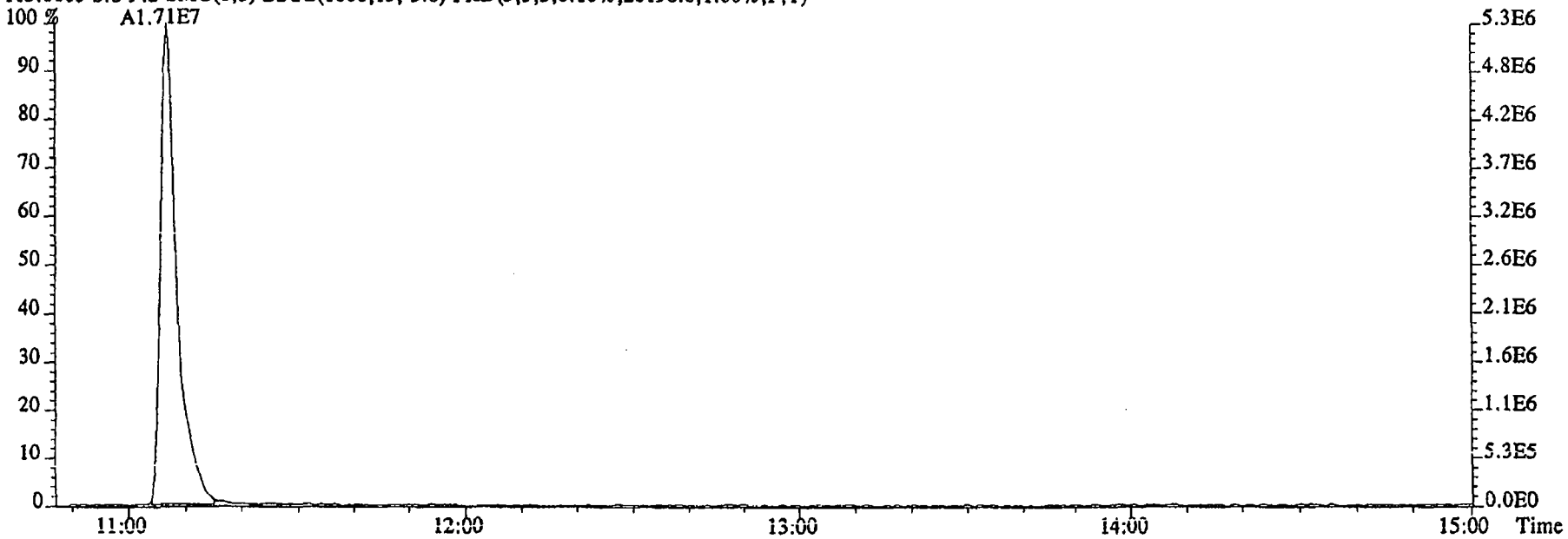
80.0857 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2912.0,1.00%,F,T)



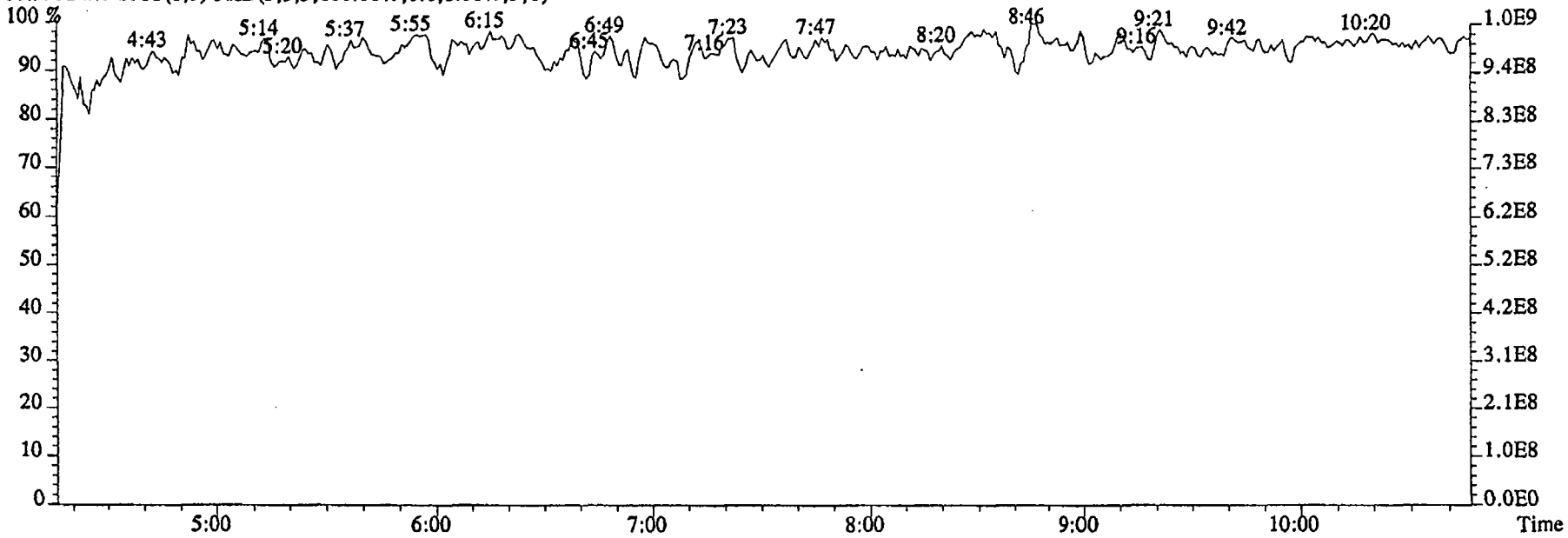
File:09DE045SP #1-590 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
113.0032 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2031548.0,1.00%,F,T)



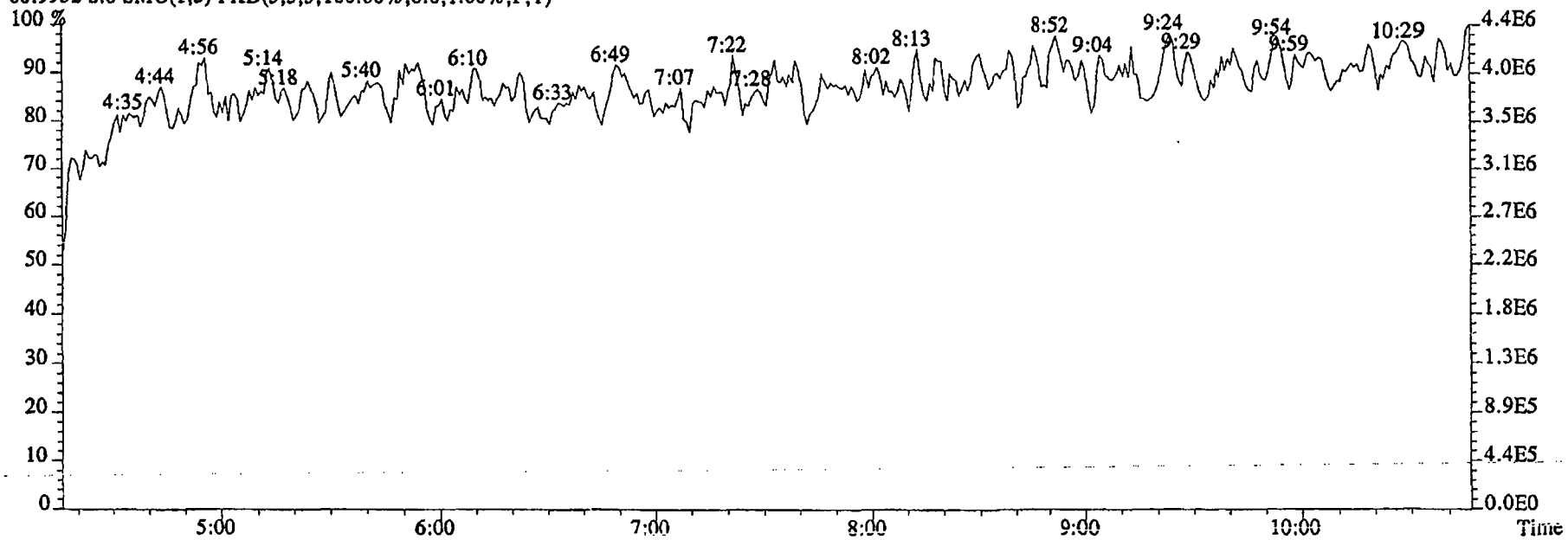
115.0003 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20196.0,1.00%,F,T)



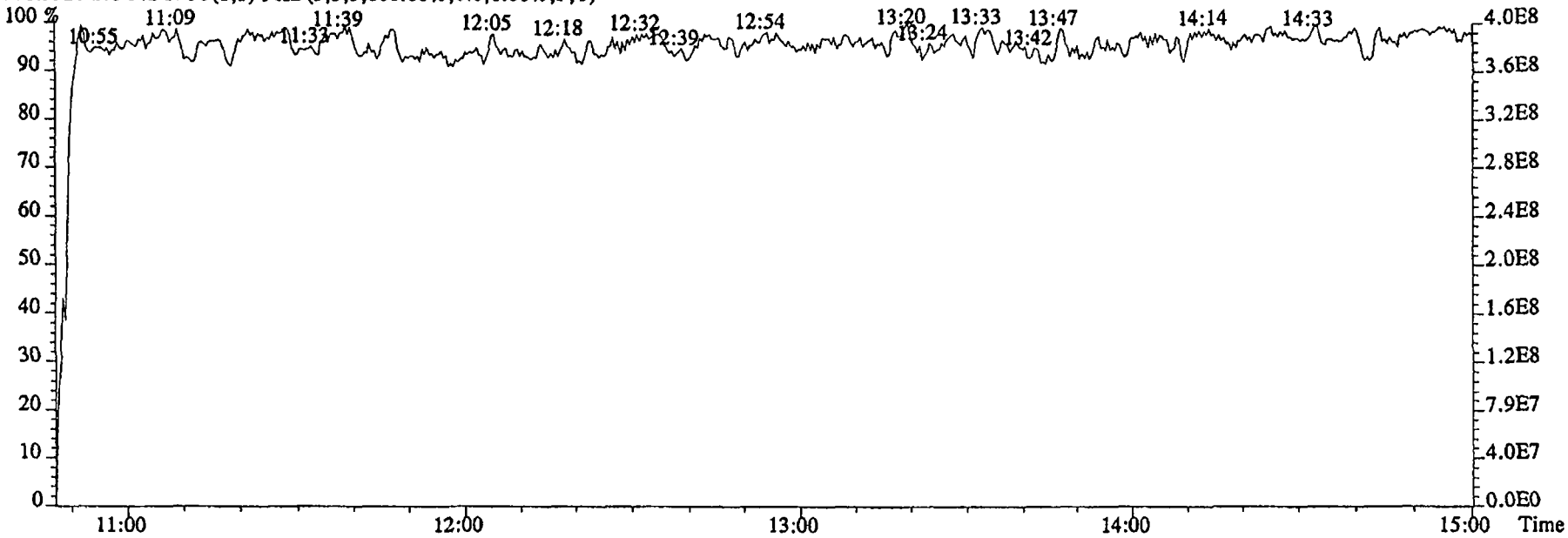
File:09DE045SP #1-481 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
68.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



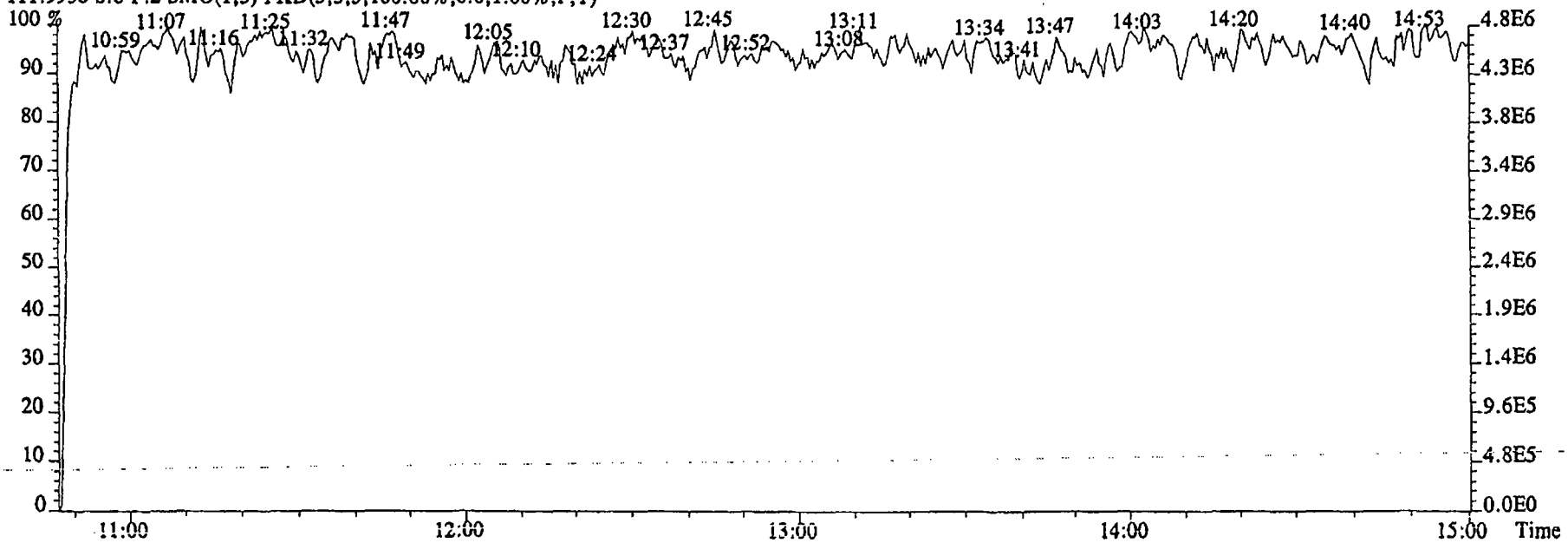
80.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



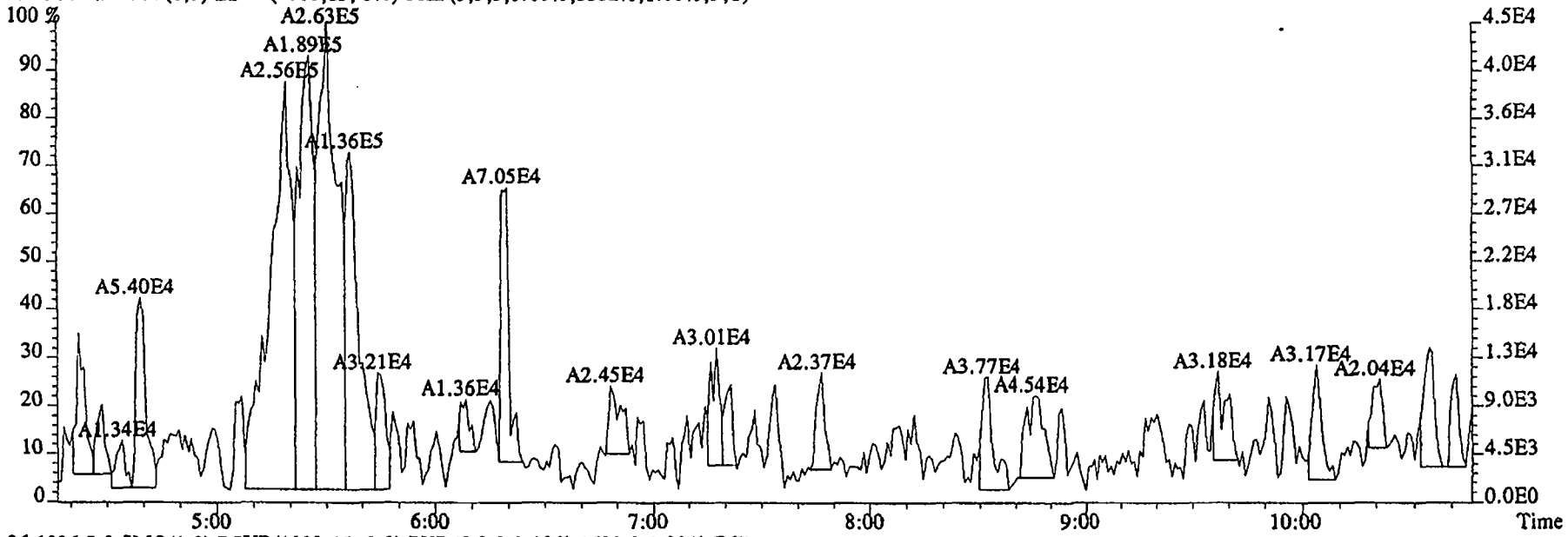
File:09DE045SP #1-590 Acq: 9-DEC-2004 20:34:54 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1209F :CS3 2350-68C Exp:NDMAVOA
118.9920 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



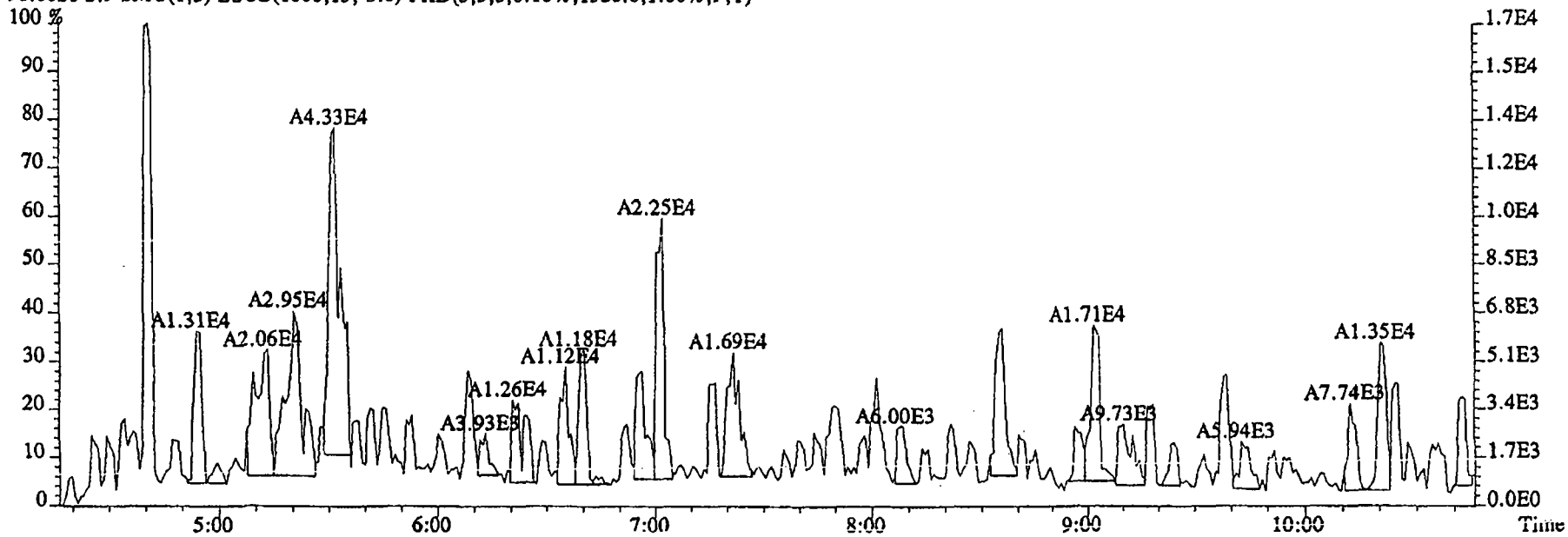
111.9936 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



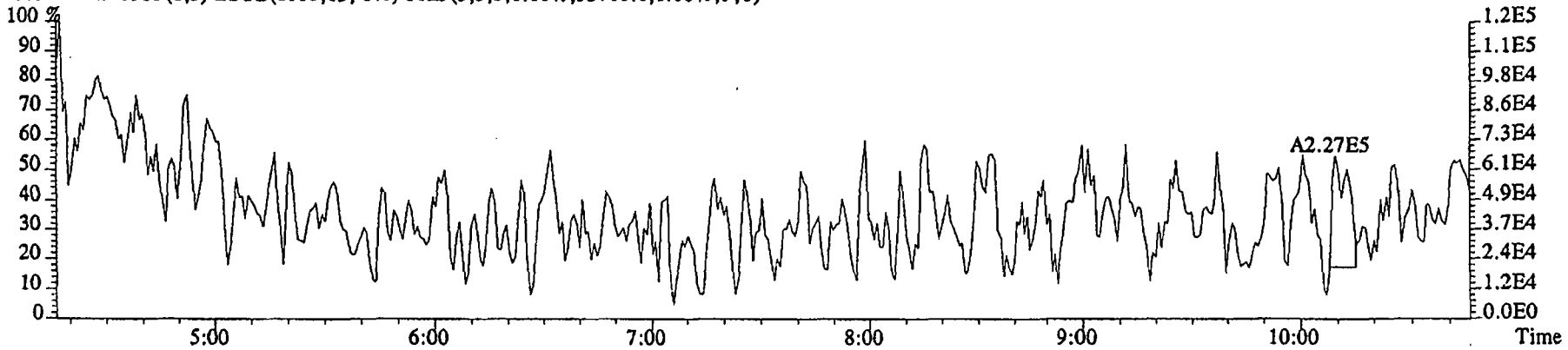
File:09DE045SP #1-480 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
88.0524 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5332.0,1.00%,F,T)



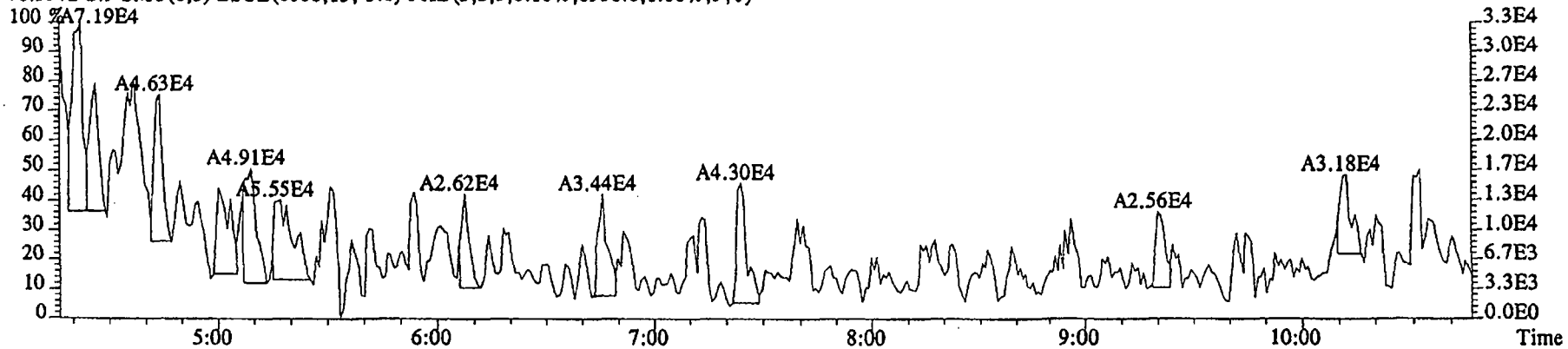
96.1026 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1520.0,1.00%,F,T)



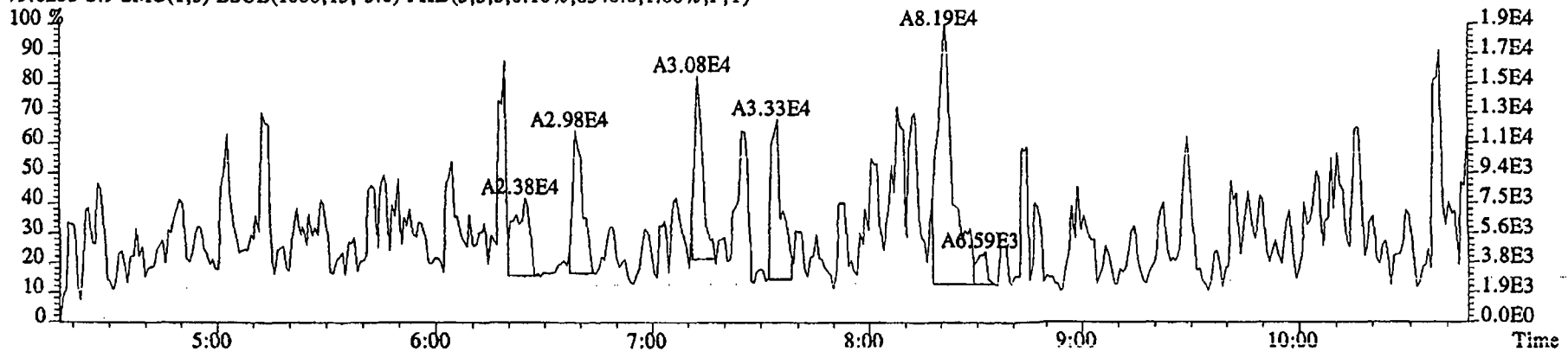
File:09DE045SP #1-480 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
75.0002 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,53760.0,1.00%,F,T)



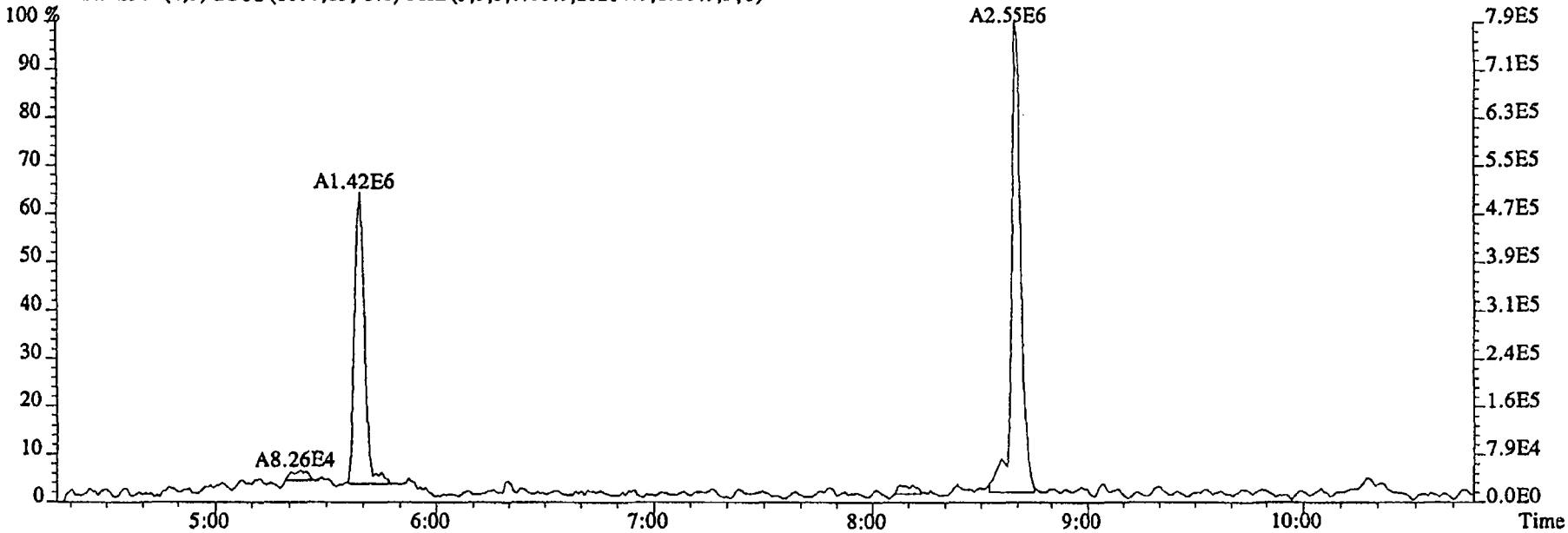
76.9972 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6936.0,1.00%,F,T)



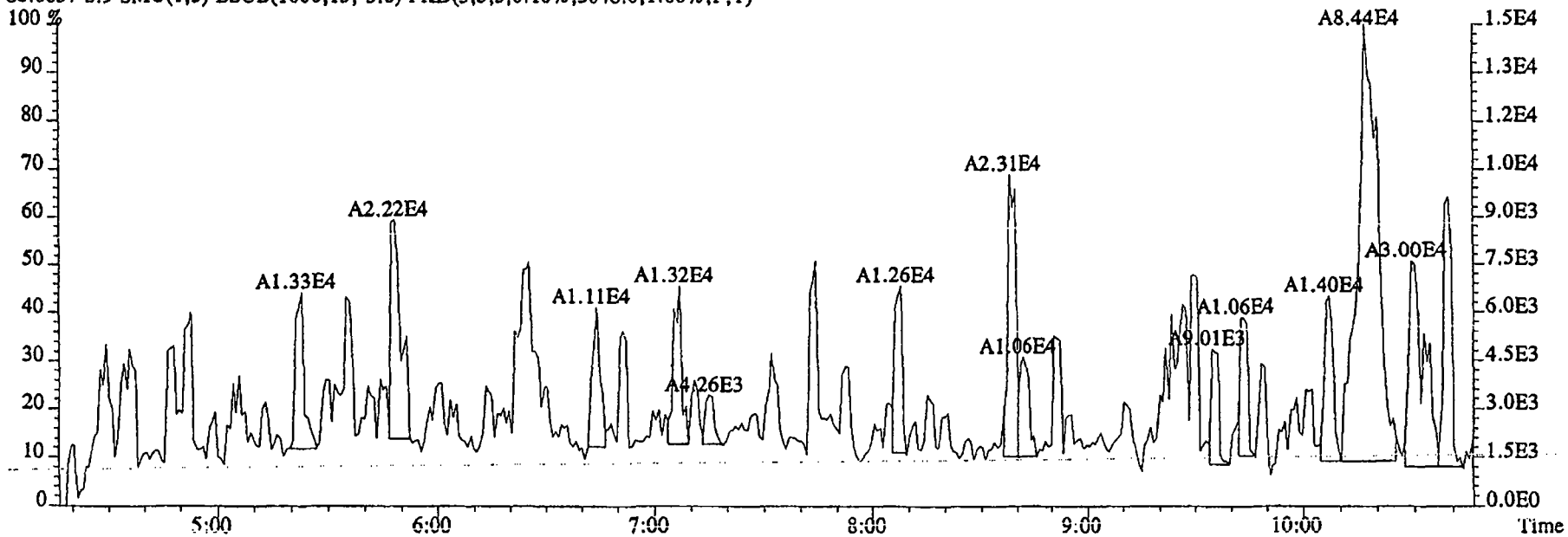
79.0253 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6340.0,1.00%,F,T)



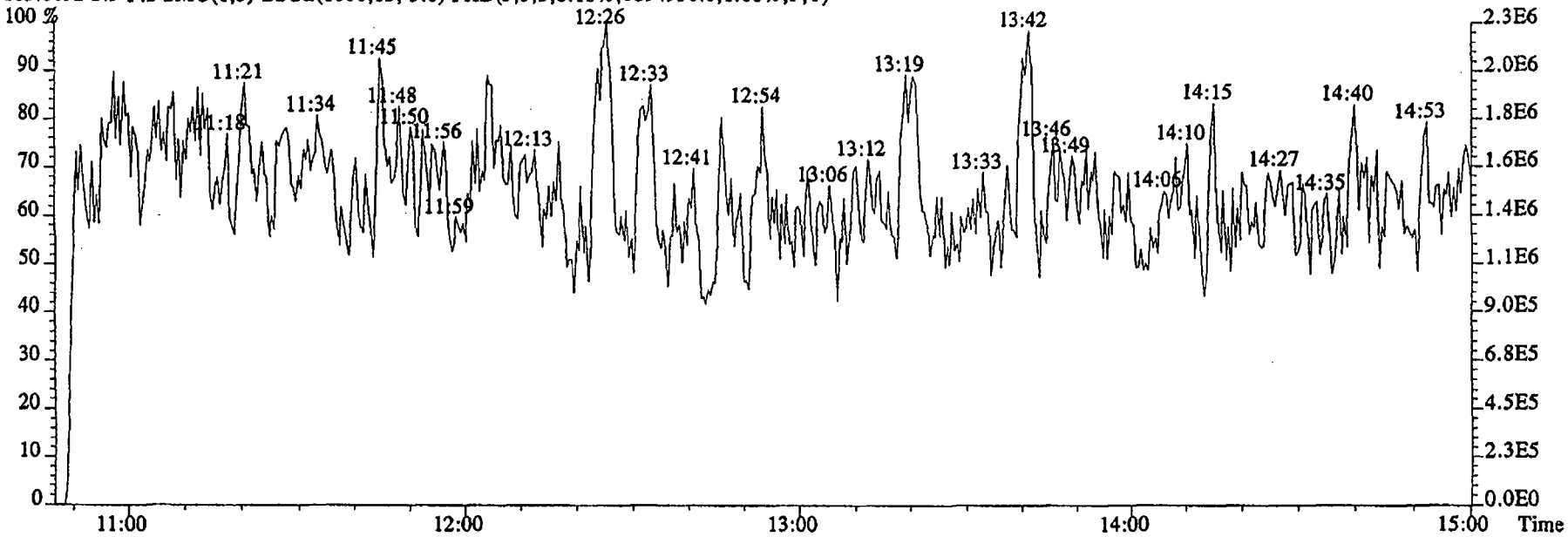
File:09DE045SP #1-480 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20204.0,1.00%,F,T)



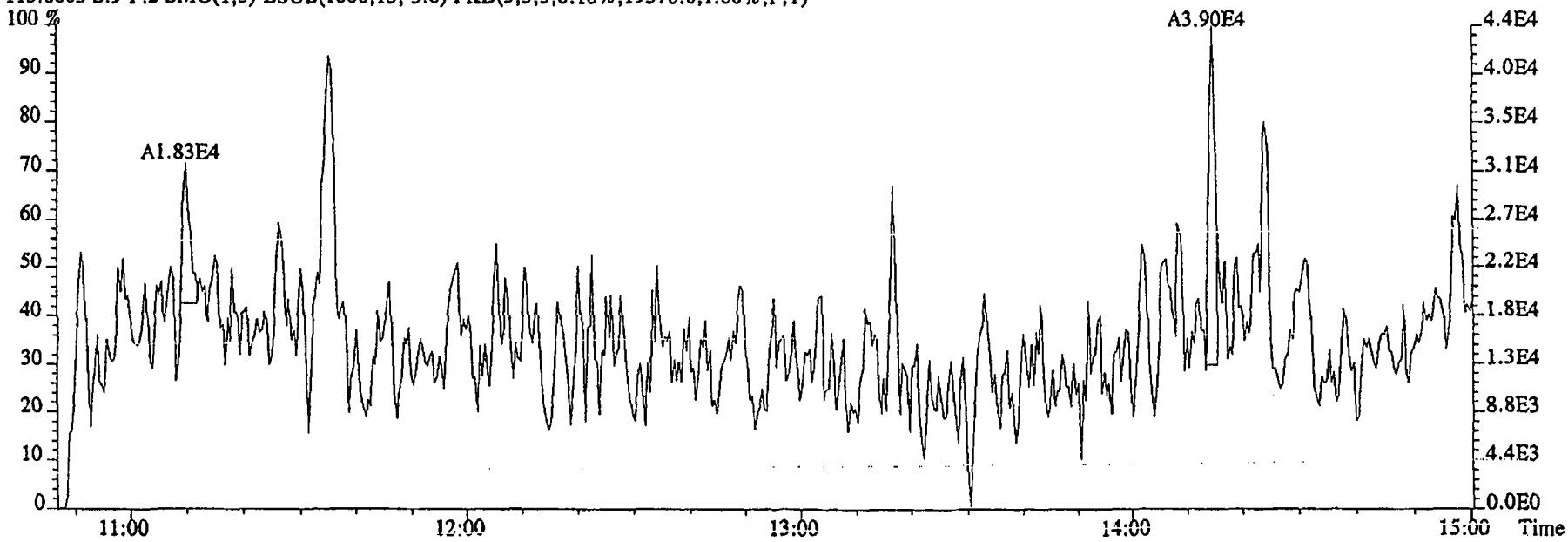
80.0857 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3048.0,1.00%,F,T)



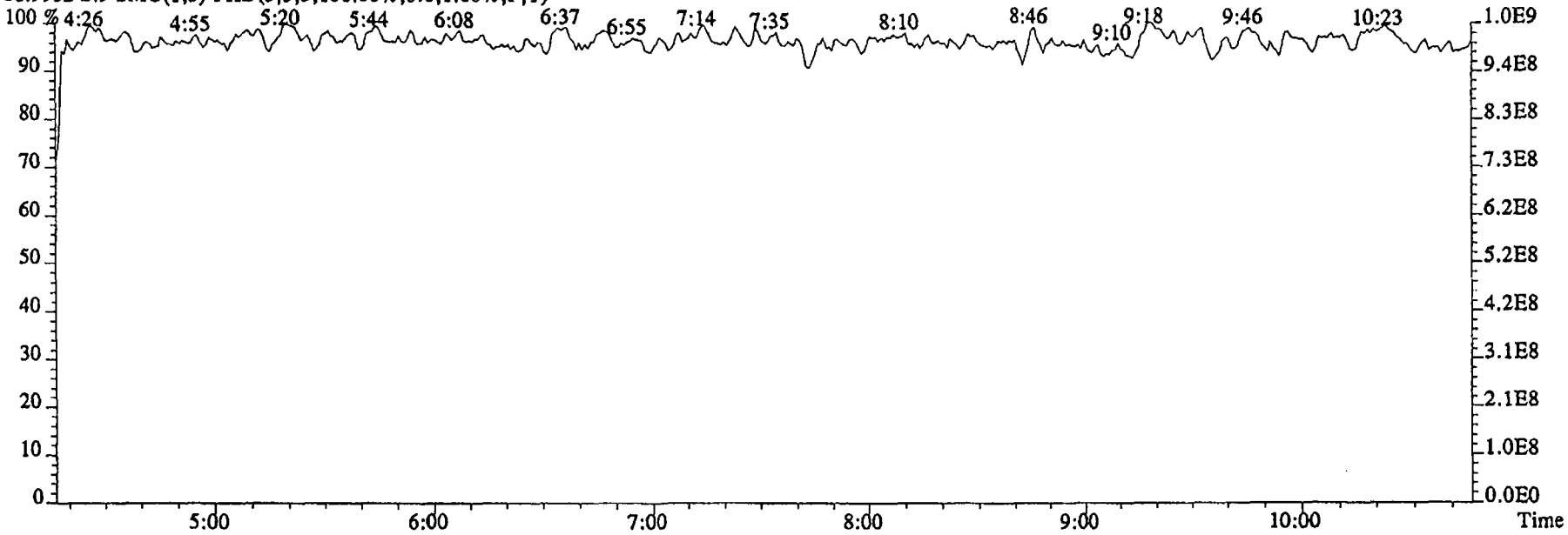
File:09DE045SP #1-591 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
113.0032 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1894956.0,1.00%,F,T)



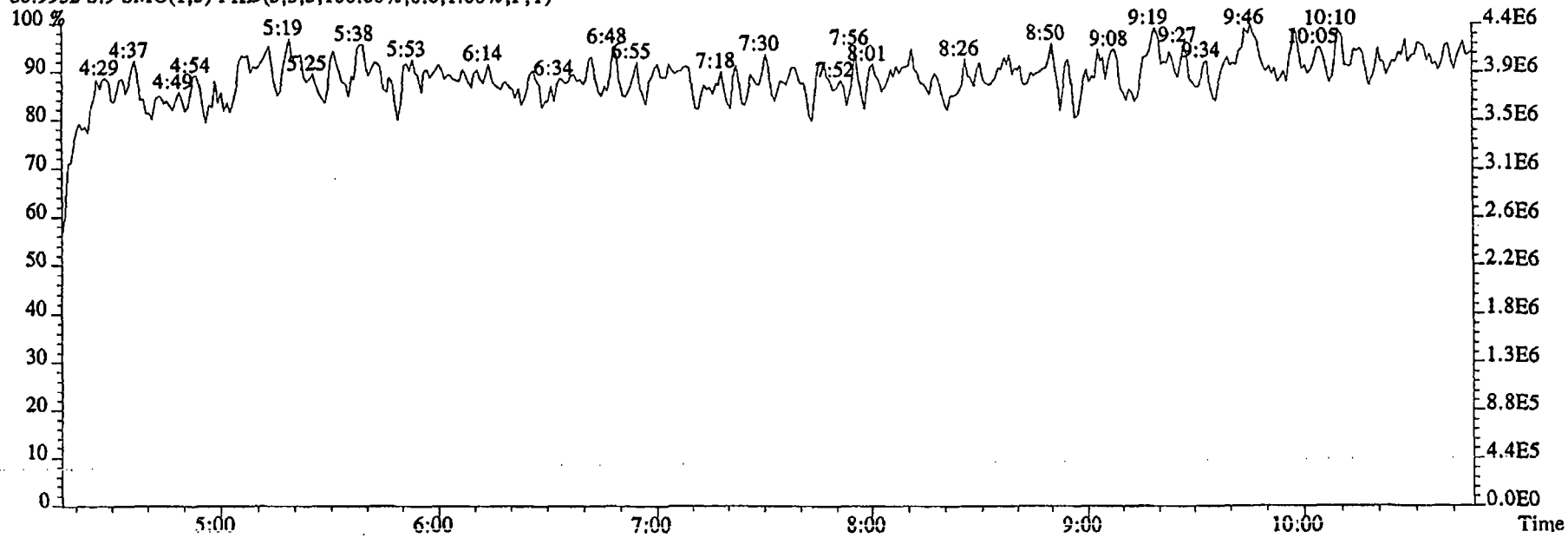
115.0003 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19576.0,1.00%,F,T)



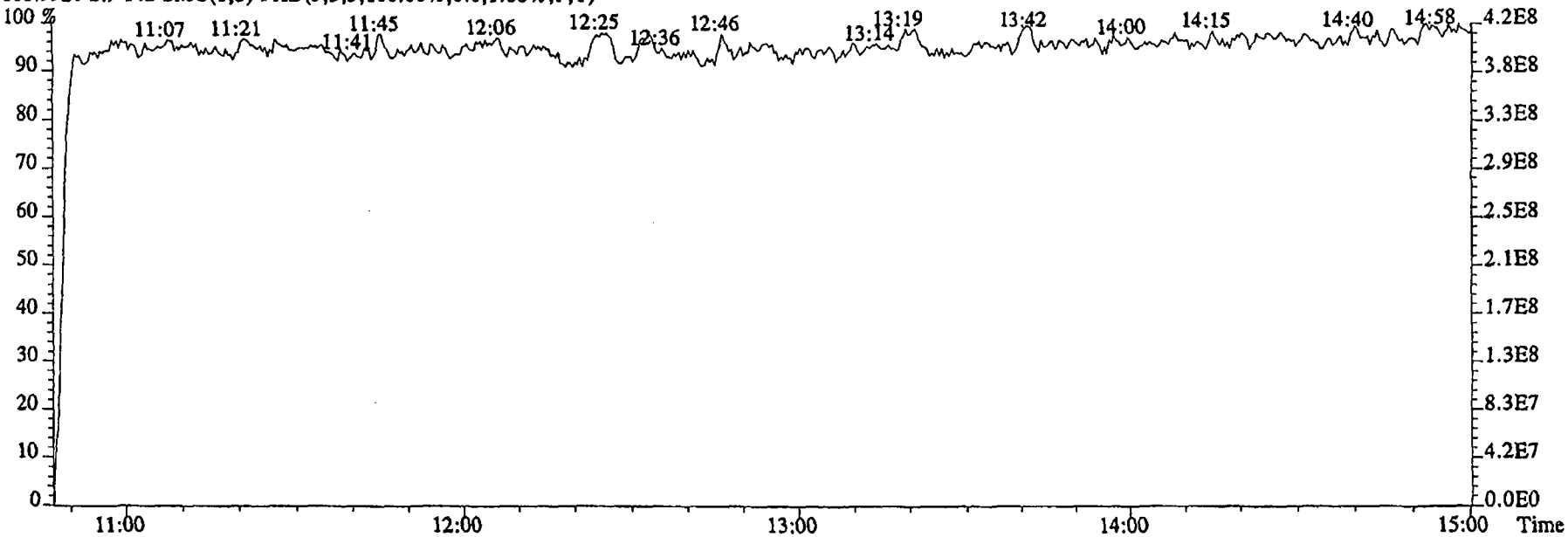
File:09DE045SP #1-480 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
68.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



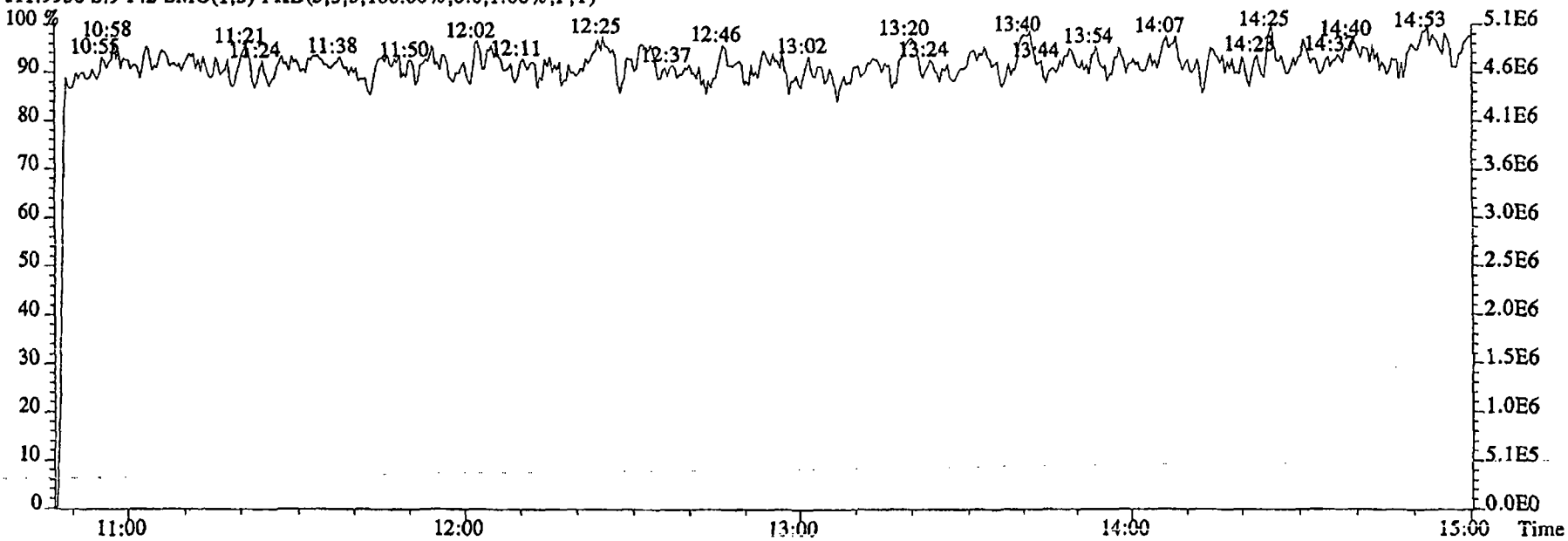
80.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-591 Acq: 9-DEC-2004 20:55:19 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1209A :Solvent Blank DCM Exp:NDMAVOA
118.9920 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

SEVERN TRENT SERVICES

Initial Calibration Checklist
High Resolution

ICAL ID 1625120904.53P

Method ID 1625

Column ID SP-2331

Instrument ID 53P

STD ID's STR09A - STR09E

STD Solution 2350-68A-68E

Multiplier Setting 720

Analyzed By AM

Date Analyzed 12/9/04

Prepared By [illegible]

Date Prepared 12/3/04

Reviewed By [illegible]

Date Reviewed 12-14-04

ANALYSIS OF ICAL	INITIATED	REVIEWED
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?	N/A	N/A
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	N/A	N/A

COMMENTS:

*Method 8290: %RSD ≤ 20% for natives, ≤ 30% for labeled analytes; S/N ≥ 10
Method 1613A: %CV ≤ 35% (See Table 7, Method 1613A); S/N ≥ 10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N > 2.5
PAH: %RSD ≤ 30% for natives and labeled compounds; S/N ≥ 10
PCB: %RSD ≤ 20% for natives, ≤ 40% for labeled compounds; S/N ≥ 2.5
NCASI 551: %RSD ≤ 20% for natives and labeled compounds; ≥ 5
DBD/DBF: %RSD ≤ 30% for natives, ≤ 40% for labeled analytes; S/N ≥ 10

Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP

ST1209B :CS1 2350-68A ST1209C :CS2 2350-68B ST1209A :CS3 2350-68C
ST1209D :CS4 2350-68D ST1209E :CS5 2350-68E

Name	Mean	S. D.	%RSD	09DE045SP S3 RRF1	09DE045SP S4 RRF2	09DE045SP S2 RRF3	09DE045SP S5 RRF4	09DE045SP S6 RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	1.114	0.085	7.58 %	1.15	1.12	1.21	1.12	0.98
1,4-Dioxane	1.146	0.142	12.4 %	1.20	1.01	0.98	1.24	1.29
D5-123-TriChloroPropane	4.652	0.276	5.93 %	4.42	4.80	5.07	4.48	4.49
1,2,3-TriChloroPropane	0.380	0.022	5.74 %	0.42	0.37	0.36	0.38	0.37
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	2.548	0.145	5.70 %	2.44	2.74	2.64	2.53	2.39
NDMA	0.984	0.086	8.71 %	1.13	0.93	0.91	0.96	0.98
2-Chloropyridine	-	-	- %	-	-	-	-	-

Run #1 Filename 09DE045SP S: 3 I: 1
Acquired: 9-DEC-04 18:52:47 Processed: 9-DEC-04 20:10:28
Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP
Comments:
Sample text: ST1209B :CS1 2350-68A

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	28847200		11:07	-	200.00	n
D8-1,4-Dioxane	165186000		5:07	1.15	1000.00	n
1,4-Dioxane	396740		5:07	1.20	2.00	n
D5-123-TriChloroPropane	63688200		10:02	4.42	100.00	n
1,2,3-TriChloroPropane	531740		10:06	0.42	2.00	n
1,2,3-TriChloroPropane	1270810		10:06	-	2.00	n
D6-NDMA	35244200		10:14	2.44	100.00	n
NDMA	796334		10:13	1.13	2.00	n
2-Chloropyridine	94240100		11:07	-	200.00	n

Run #2 Filename 09DE045SP S: 4 I: 1
Acquired: 9-DEC-04 19:13:12 Processed: 9-DEC-04 20:10:28
Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP
Comments:
Sample text: ST1209C :CS2 2350-68B

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	22053000		11:07	-	200.00	n
D8-1,4-Dioxane	123817000		5:07	1.12	1000.00	n
1,4-Dioxane	1250910		5:07	1.01	10.00	n
D5-123-TriChloroPropane	52955400		10:03	4.80	100.00	n
1,2,3-TriChloroPropane	1955960		10:06	0.37	10.00	n
1,2,3-TriChloroPropane	5396090		10:07	-	10.00	n
D6-NDMA	30219100		10:13	2.74	100.00	n
NDMA	2824550		10:13	0.93	10.00	n
2-Chloropyridine	71592400		11:07	-	200.00	n

Run #3 Filename 09DE045SP S: 2 I: 1
Acquired: 9-DEC-04 18:29:52 Processed: 9-DEC-04 20:10:29
Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP
Comments:
Sample text: ST1209A :CS3 2350-68C

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	19300400		11:08	-	200.00	n
D8-1,4-Dioxane	116656000		5:07	1.21	1000.00	n
1,4-Dioxane	5714370		5:07	0.98	50.00	n
D5-123-TriChloroPropane	48885000		10:04	5.07	100.00	n
1,2,3-TriChloroPropane	8843570		10:07	0.36	50.00	n
1,2,3-TriChloroPropane	24535100		10:07	-	50.00	n
D6-NDMA	25513800		10:14	2.64	100.00	n
NDMA	11666900		10:14	0.91	50.00	n
2-Chloropyridine	61166300		11:08	-	200.00	n

Run #4 Filename 09DE045SP S: 5 I: 1
Acquired: 9-DEC-04 19:33:37 Processed: 9-DEC-04 20:10:29
Run: 09DE045SPIC7 Analyte: 1625 Cal: 16251209045SP
Comments:
Sample text: ST1209D :CS4 2350-68D

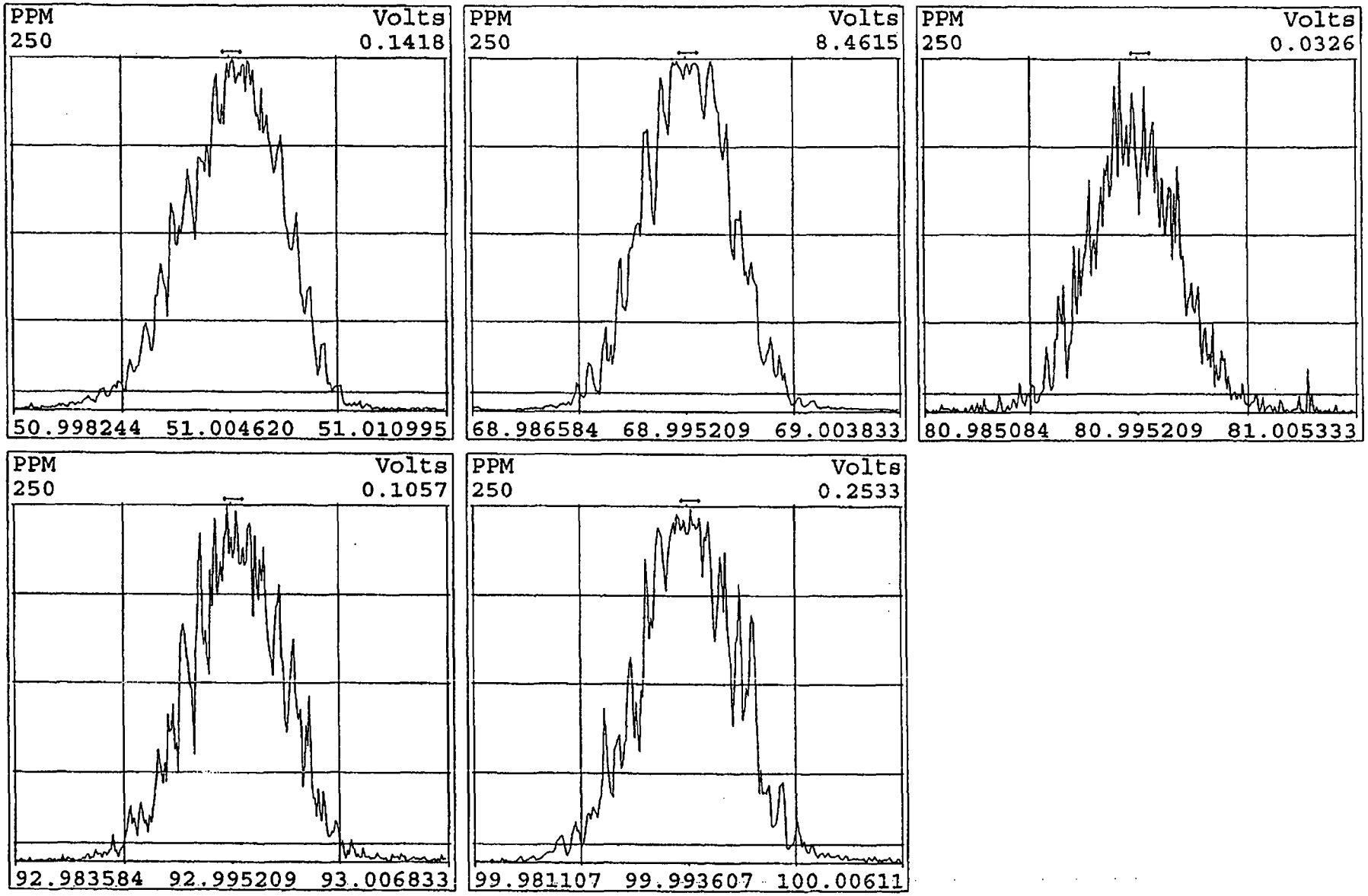
Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	35568000		11:07	-	200.00	n
D8-1,4-Dioxane	198583000		5:07	1.12	1000.00	n
1,4-Dioxane	49430100		5:07	1.24	200.00	n
D5-123-TriChloroPropane	79711900		10:03	4.48	100.00	n
1,2,3-TriChloroPropane	60805200		10:07	0.38	200.00	n
1,2,3-TriChloroPropane	172833000		10:07	-	200.00	n
D6-NDMA	44914500		10:14	2.53	100.00	n
NDMA	85794400		10:13	0.96	200.00	n
2-Chloropyridine	113587000		11:08	-	200.00	n

Run #5 Filename 09DE045SP S: 6 I: 1
Acquired: 9-DEC-04 19:54:02 Processed: 9-DEC-04 20:10:29
Run: 09DE045SPIC Analyte: 1625 Cal: 16251209045SP
Comments:
Sample text: ST1209E :CS5 2350-68E

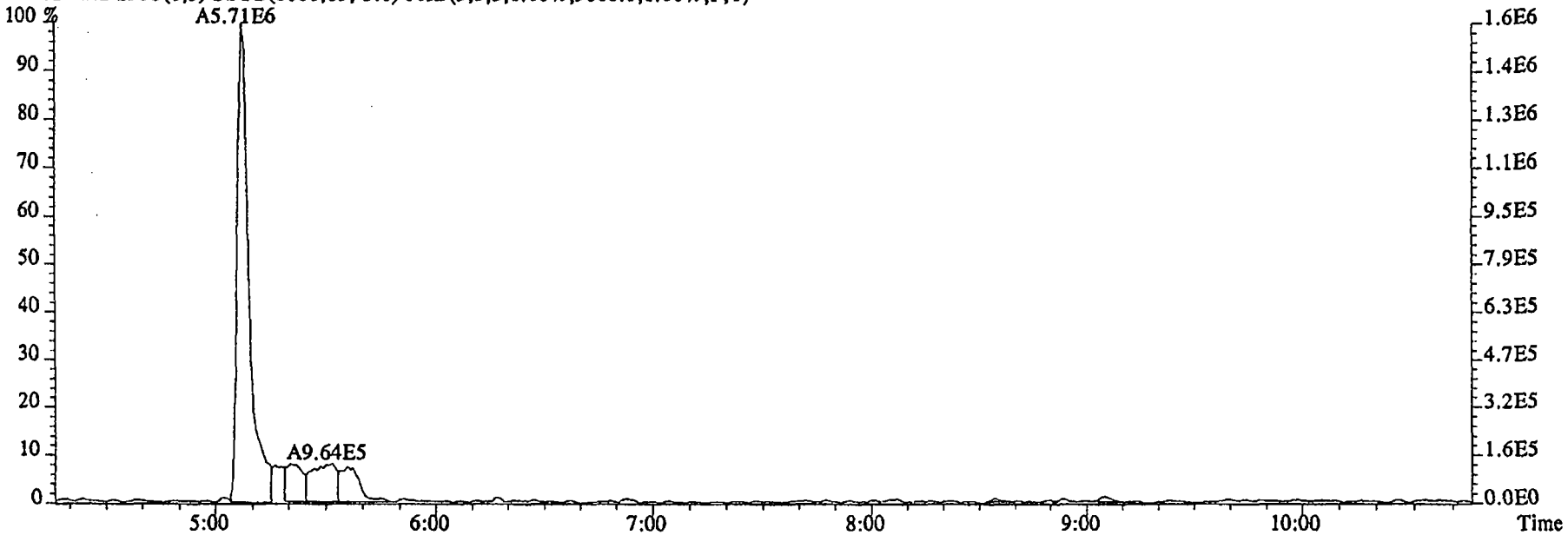
Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	51301500		11:07	-	200.00	n
D8-1,4-Dioxane	250849000		5:07	0.98	1000.00	n
1,4-Dioxane	324188000		5:07	1.29	1000.00	n
D5-123-TriChloroPropane	115219000		10:03	4.49	100.00	n
1,2,3-TriChloroPropane	429125000		10:07	0.37	1000.00	n
1,2,3-TriChloroPropane	1255770000		10:07	-	1000.00	n
D6-NDMA	61180500		10:14	2.39	100.00	n
NDMA	601702000		10:13	0.98	1000.00	n
2-Chloropyridine	167291000		11:07	-	200.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
09DE045SP	1	ST1209	CS3 2350-68C				1.000	
09DE045SP	2	ST1209A	CS3 2350-68C				1.000	
09DE045SP	3	ST1209B	CS1 2350-68A				1.000	
09DE045SP	4	ST1209C	CS2 2350-68B				1.000	
09DE045SP	5	ST1209D	CS4 2350-68D				1.000	
09DE045SP	6	ST1209E	CS5 2350-68E				1.000	
09DE045SP	7	SB1209	Solvent Blank DCM				1.000	
09DE045SP	8	ST1209F	CS3 2350-68C				1.000	
09DE045SP	9	SB1209A	Solvent Blank DCM				1.000	
09DE045SP	10	G0FX0-1-ACC	G4L040125-1LCS	500	1625/WATER	VS52	1.000	L
09DE045SP	11	G0L0H-1-AAB	G4L070405-1MB	500	1625/WATER	VS53	1.000	L
09DE045SP	12	G0L0H-1-ACC	G4L070405-1LCS	500	1625/WATER		1.000	L
09DE045SP	13	G0GT8-1-AC	G4L070405-1	500	1625/WATER		0.934	L
09DE045SP	14	G0GT9-1-AC	G4L070405-2	500	1625/WATER		0.994	L
09DE045SP	15	G0GVA-1-AC	G4L070405-3	500	1625/WATER		0.979	L
09DE045SP	16	G0GVC-1-AC	G4L070405-4	500	1625/WATER		0.990	L
09DE045SP	17	G0GVD-1-AC	G4L070405-5	500	1625/WATER		0.980	L
09DE045SP	18	G0GVE-1-AC	G4L070405-6	500	1625/WATER		0.980	L
09DE045SP	19	G0HP5-1-AA	G4L080192-1	500	1625/WATER		0.984	L
09DE045SP	20	G0GPH-1-AA	G4L070386-1	500	1625/WATER		0.880	L
09DE045SP	21	SB1209B	Solvent Blank DCM				1.000	
09DE045SP	22	G0E5Q-1-AAB	G4L040212-10MB – Lost lock RE	~~500~~	1625/WATER	VS53	10.000	g
09DE045SP	23	G0E5Q-1-ACC	G4L040212-10LCS	500	1625/WATER		10.000	g
09DE045SP	24	G0A84-1-AD	G4L040212-10	500	1625/WATER		10.000	g
09DE045SP	25	G0A85-1-AD	G4L040212-11	500	1625/WATER		10.000	g
09DE045SP	26	G0A86-1-AD	G4L040212-12	500	1625/WATER		10.000	g
09DE045SP	27	G0A87-1-AD	G4L040212-13	500	1625/WATER		10.000	g
09DE045SP	28	G0A88-1-AD	G4L040212-14	500	1625/WATER		10.000	g
09DE045SP	29	G0A89-1-AD	G4L040212-15	500	1625/WATER		10.000	g
09DE045SP	30	G0A9A-1-AD	G4L040212-16	500	1625/WATER		10.000	g
09DE045SP	31	G0A9C-1-AD	G4L040212-17	500	1625/WATER		10.000	g
09DE045SP	32	G0A9D-1-AD	G4L040212-18	500	1625/SOLID		10.000	g
09DE045SP	33	G0A9D-1-AGS	G4L040212-18MS	500	1625/SOLID		10.000	g
09DE045SP	34	G0A9D-1-AHD	G4L040212-18SD	500	1625/SOLID		10.000	g
09DE045SP	35	G0A9E-1-AD	G4L040212-19	500	1625/SOLID		10.000	g
09DE045SP	36	G0A9F-1-AD	G4L040212-20	500	1625/SOLID		10.000	g
09DE045SP	37	G0A9G-1-AD	G4L040212-21	500	1625/SOLID		10.000	g
09DE045SP	38	G0A9L-1-AD	G4L040212-25	500	1625/SOLID		10.000	g
09DE045SP	39	G0A9M-1-AD	G4L040212-26	500	1625/SOLID		10.000	g
09DE045SP	40	G0A9N-1-AD	G4L040212-27	500	1625/SOLID		10.000	g
09DE045SP	41	G0A9P-1-AD	G4L040212-28	500	1625/SOLID		10.000	g
09DE045SP	42	SB1209C	Solvent Blank DCM				1.000	
09DE045SP	43	SB1209D	Solvent Blank DCM				1.000	
09DE045SP	44	ST1209G	CS3 2350-68C				1.000	
09DE045SP	45	SB1209E	Solvent Blank DCM				1.000	
09DE045SP	46	G0A9Q-1-AD	G4L040212-29	500	1625/SOLID	VS53	10.000	g
09DE045SP	47	G0AR-1-AD	G4L040212-30	500	1625/SOLID		10.000	g
09DE045SP	48	G0AT-1-AD	G4L040212-31	500	1625/SOLID		10.000	g
09DE045SP	49	G0AV-1-AD	G4L040212-32	500	1625/SOLID		10.000	g
09DE045SP	50	SB1209F	Solvent Blank DCM				1.000	
09DE045SP	51						1.000	
09DE045SP	52						1.000	
09DE045SP	53		AM 12-09-04				1.000	

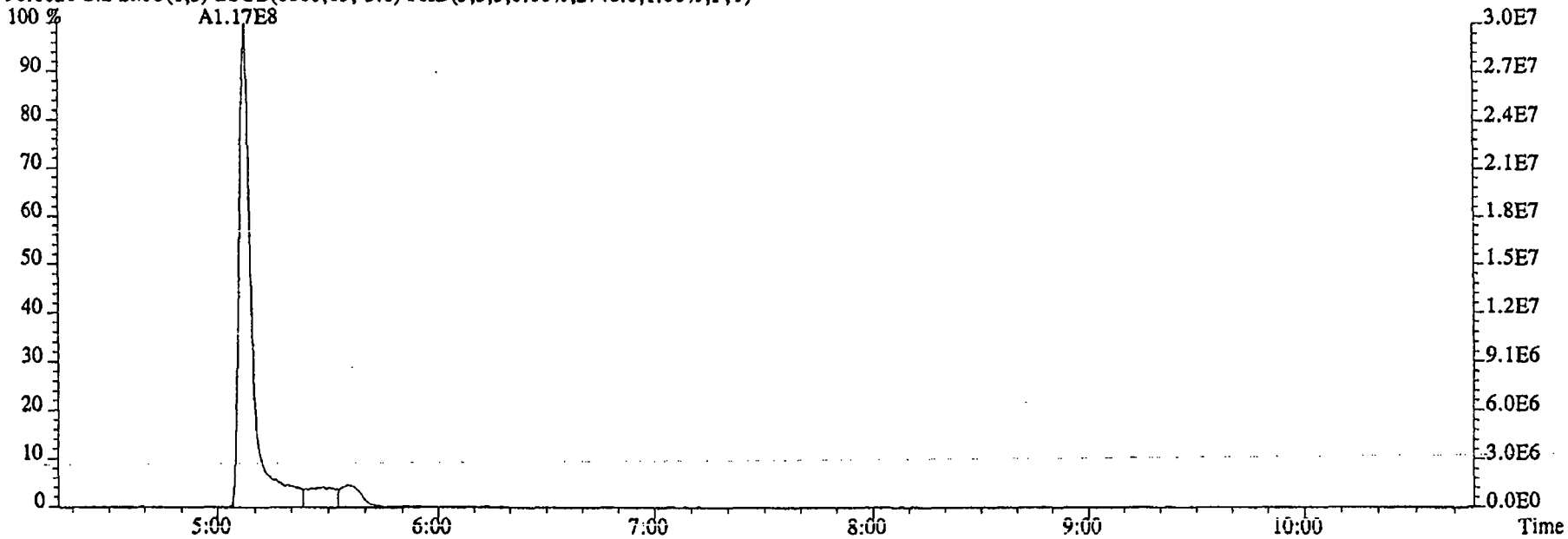
Peak Locate Examination: 9-DEC-2004:18:06 File:09DE045SP
Experiment:NDMAVOA Function:1 Reference:PFK



File:09DE045SP #1-480 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9660.0,1.00%,F,T)

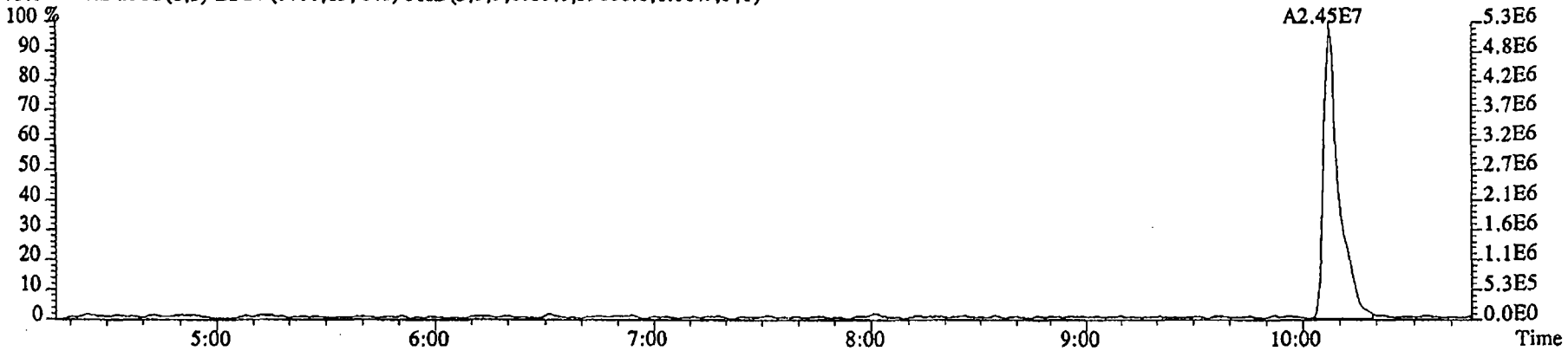


96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2748.0,1.00%,F,T)

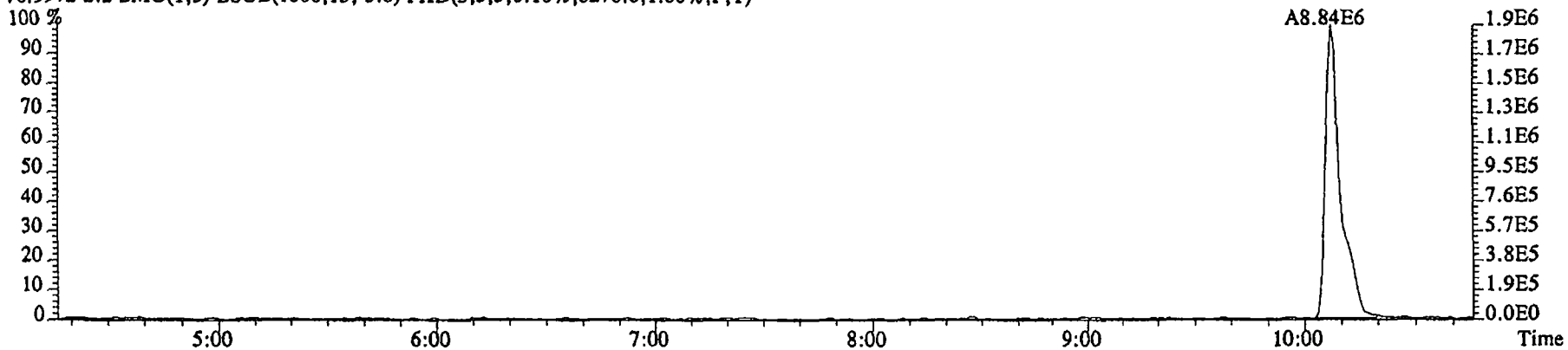


File:09DE045SP #1-480 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA

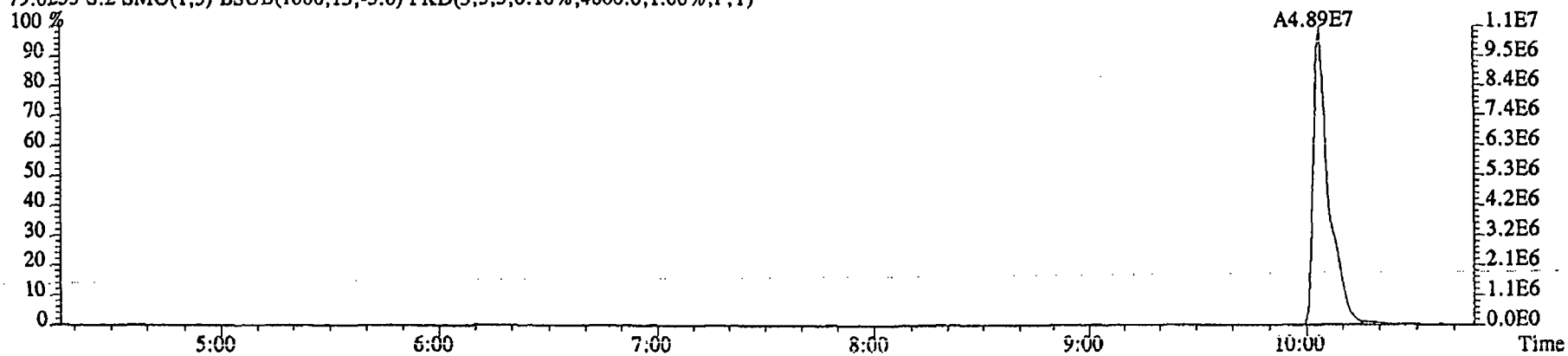
75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,59608.0,1.00%,F,T)



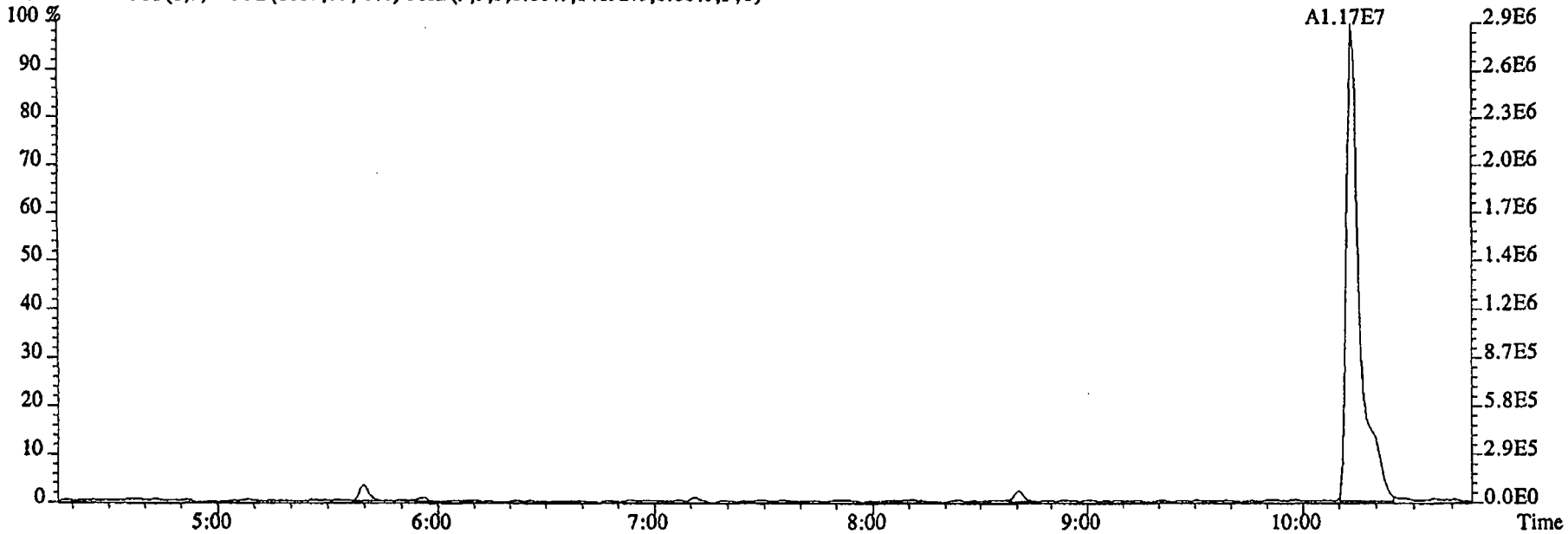
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8276.0,1.00%,F,T)



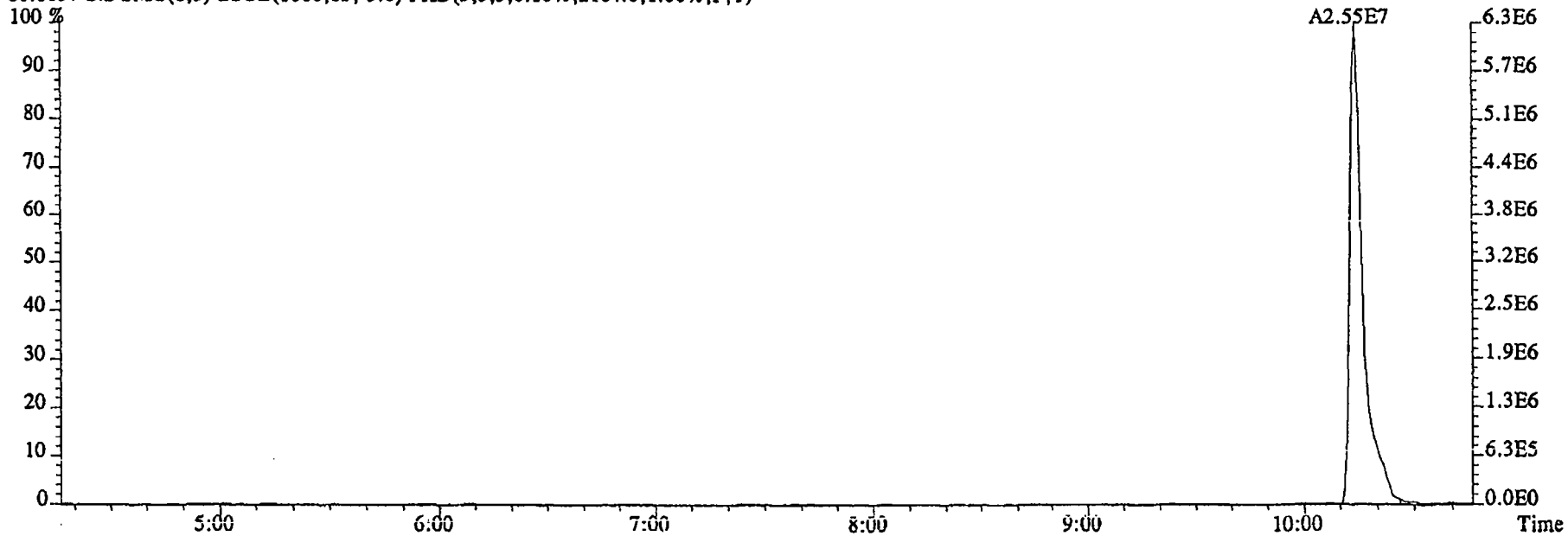
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4860.0,1.00%,F,T)



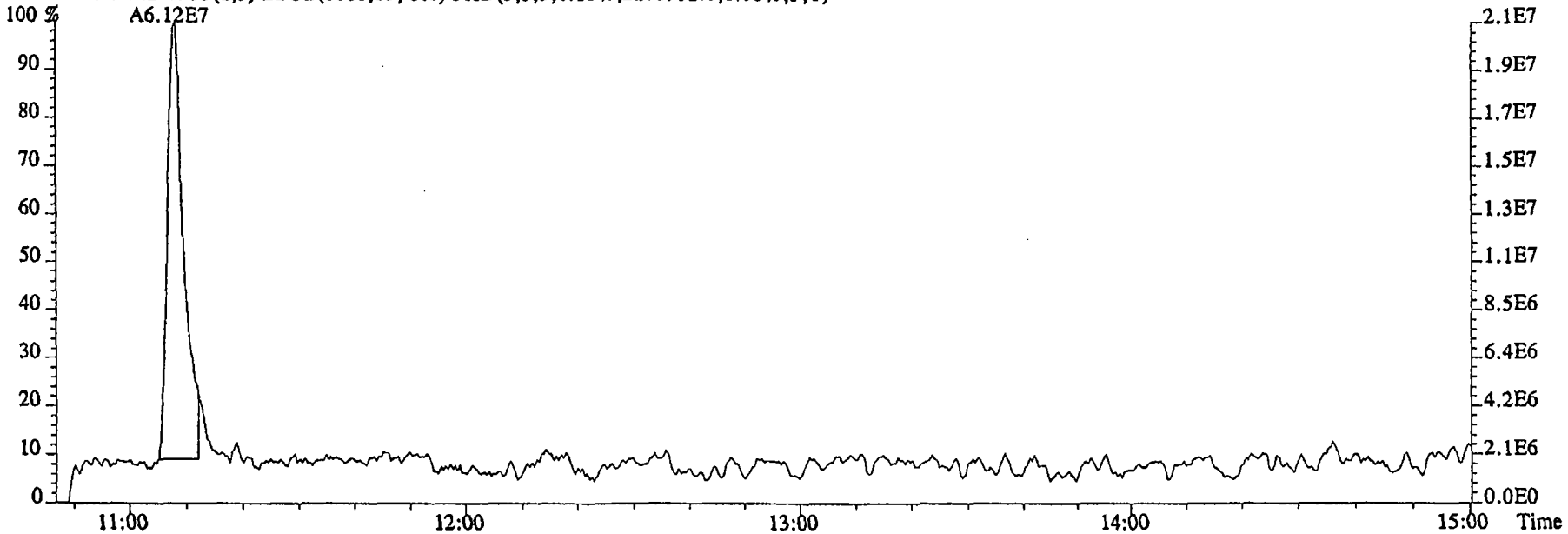
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14192.0,1.00%,F,T)



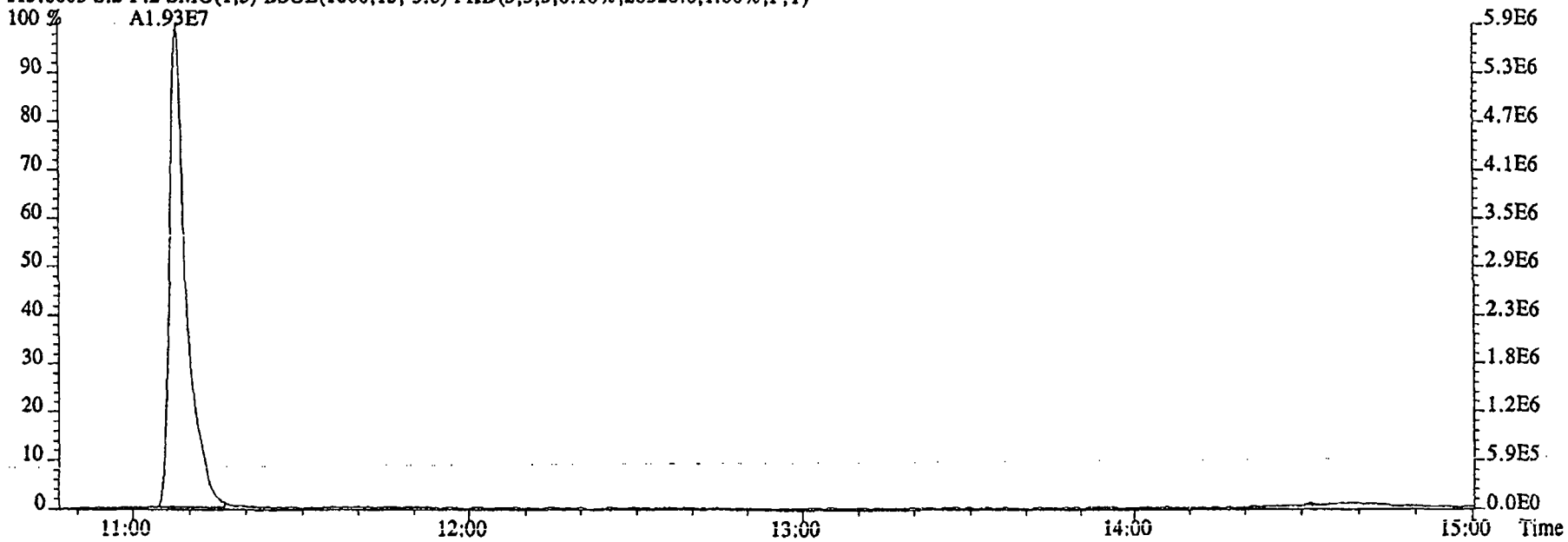
80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2184.0,1.00%,F,T)



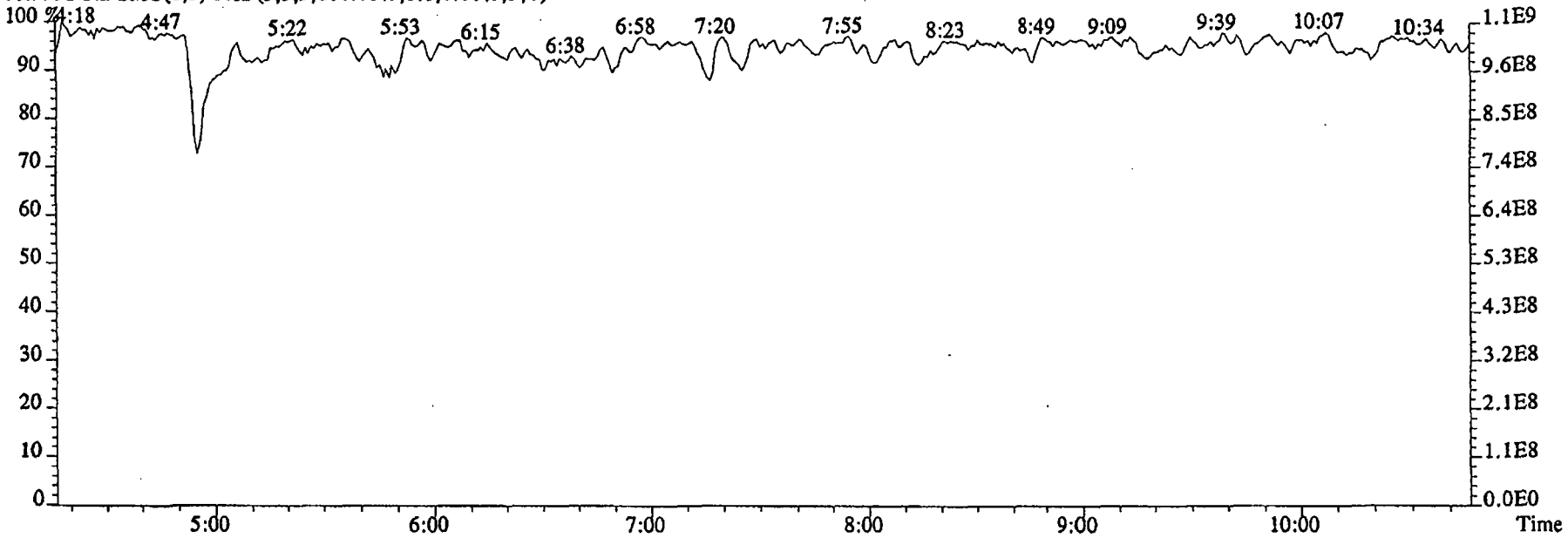
File:09DE045SP #1-591 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2273932.0,1.00%,F,T)



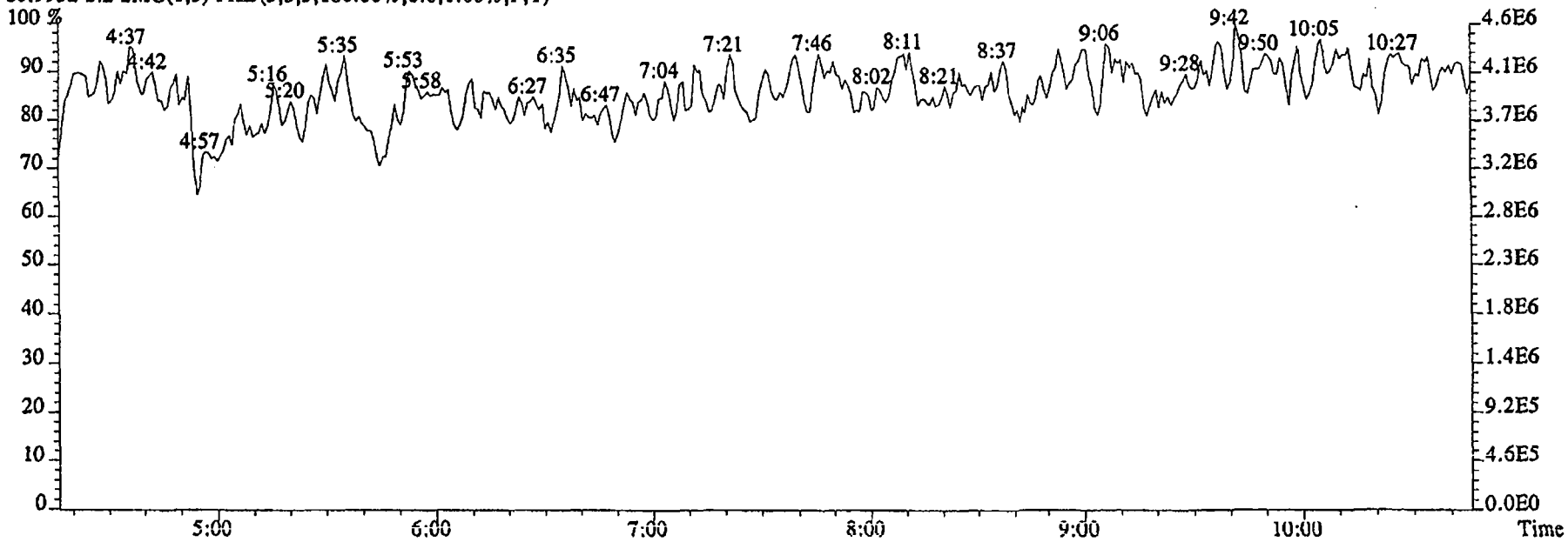
115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20320.0,1.00%,F,T)



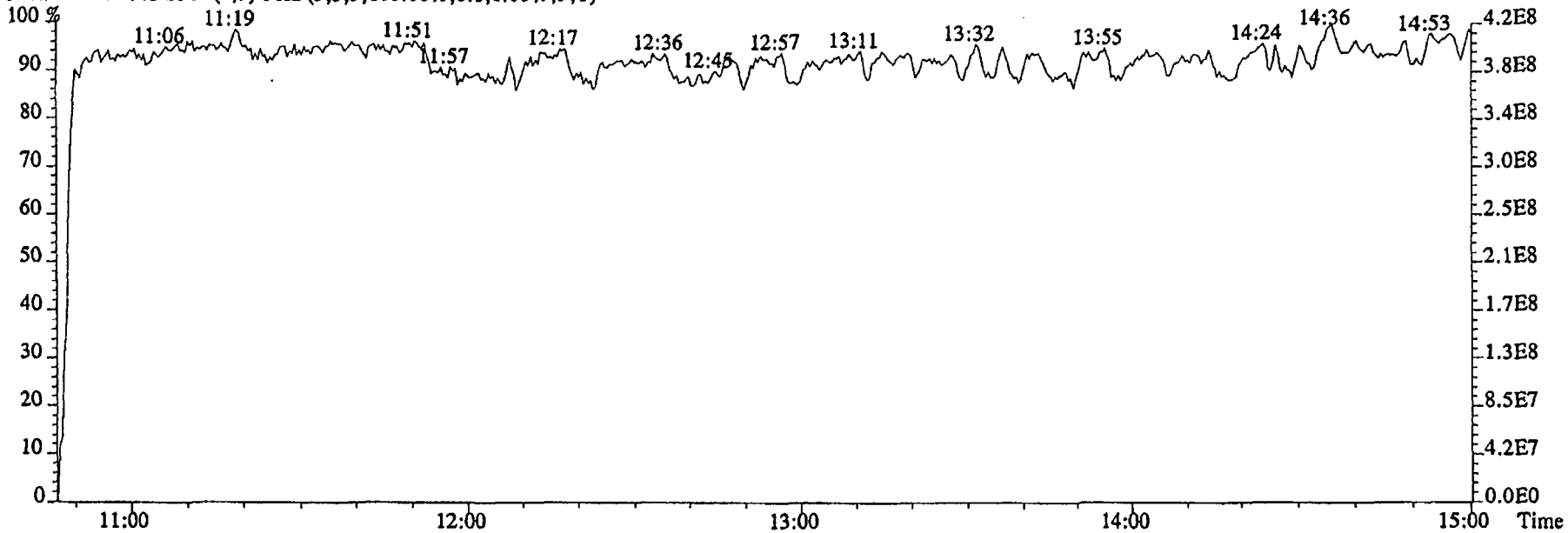
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA
68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



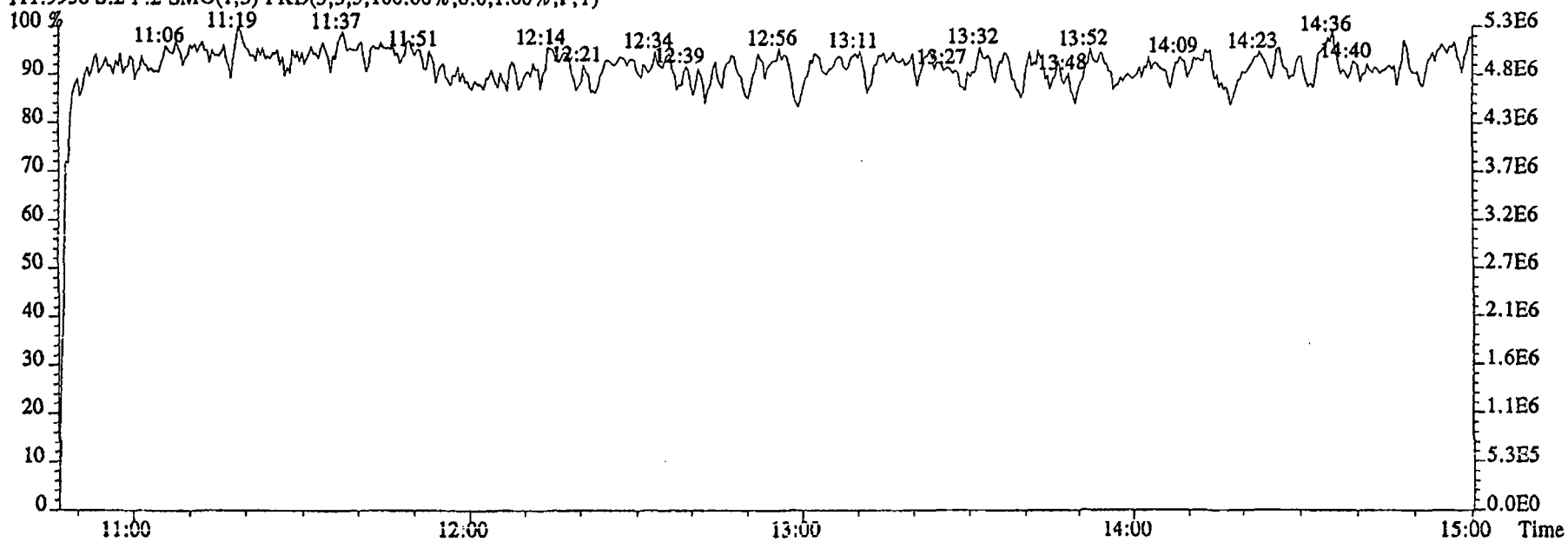
80.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



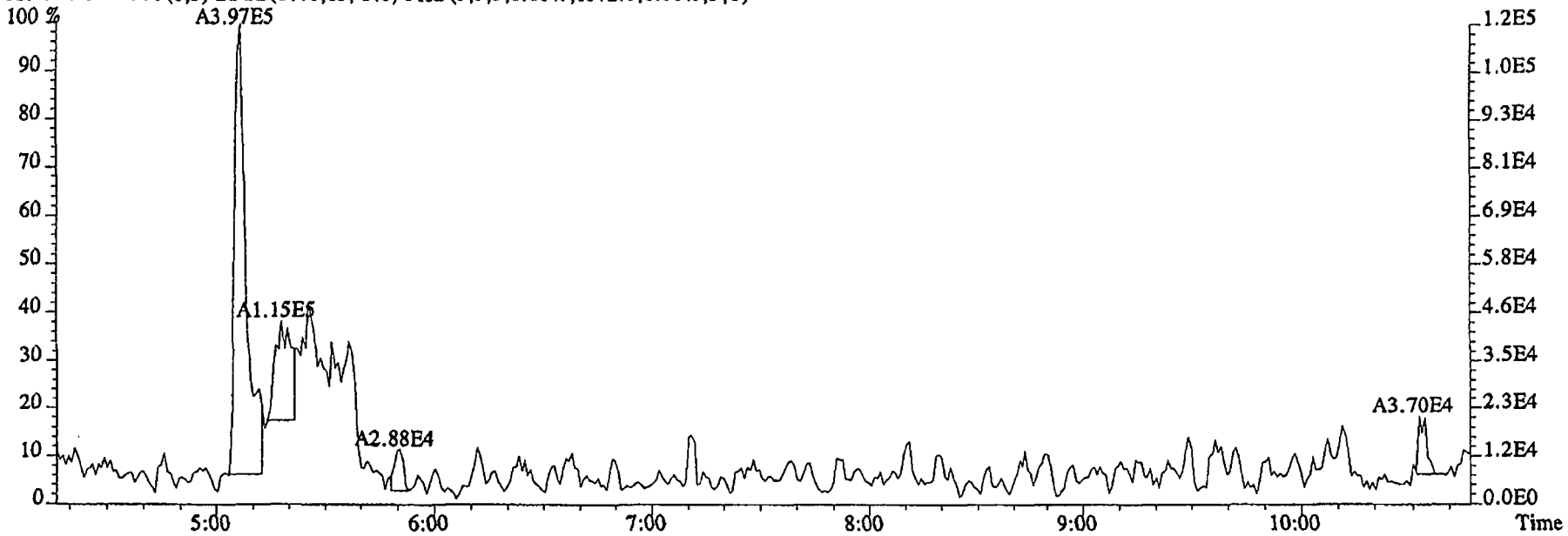
File:09DE045SP #1-591 Acq: 9-DEC-2004 18:29:52 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1209A :CS3 2350-68C Exp:NDMAVOA
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



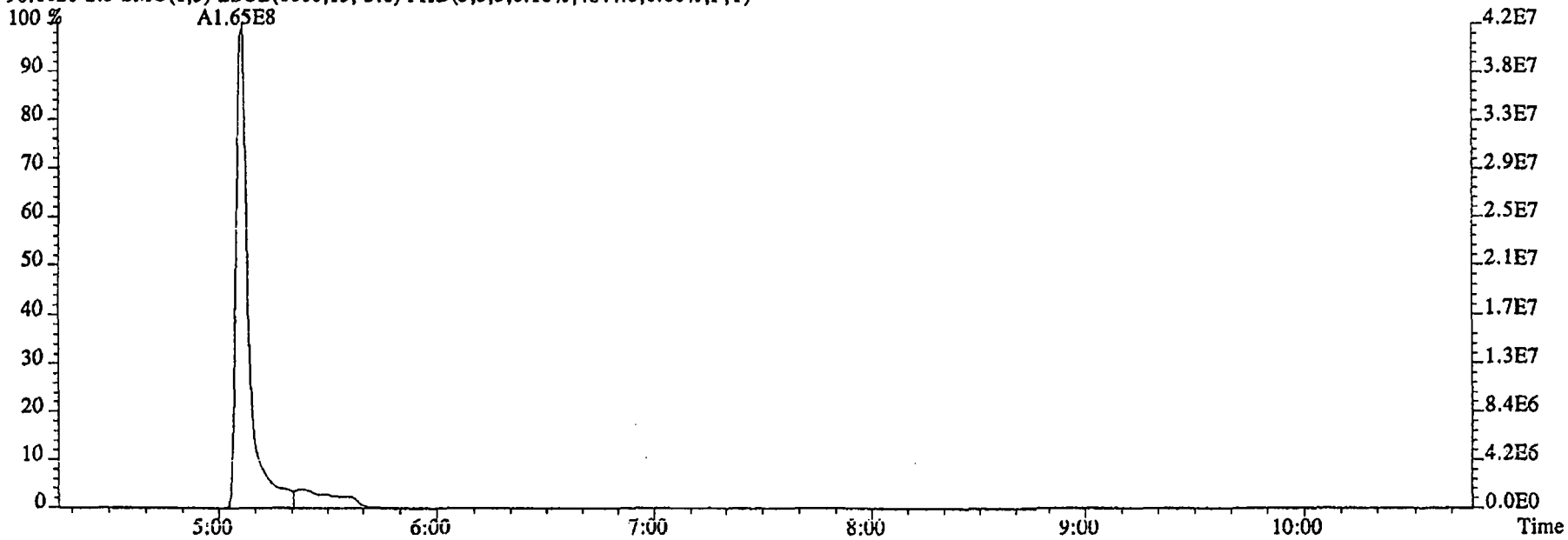
111.9936 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



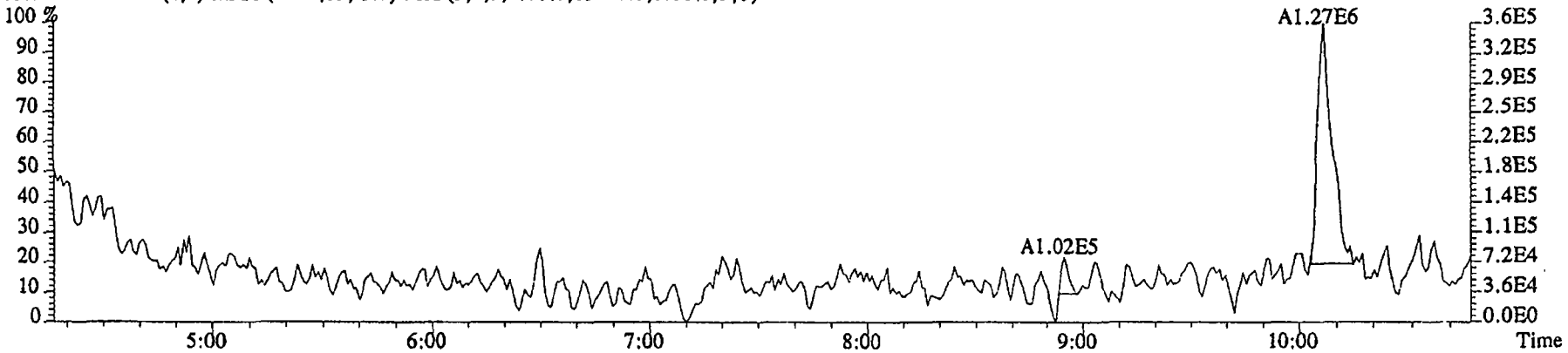
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
88.0524 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8572.0,1.00%,F,T)



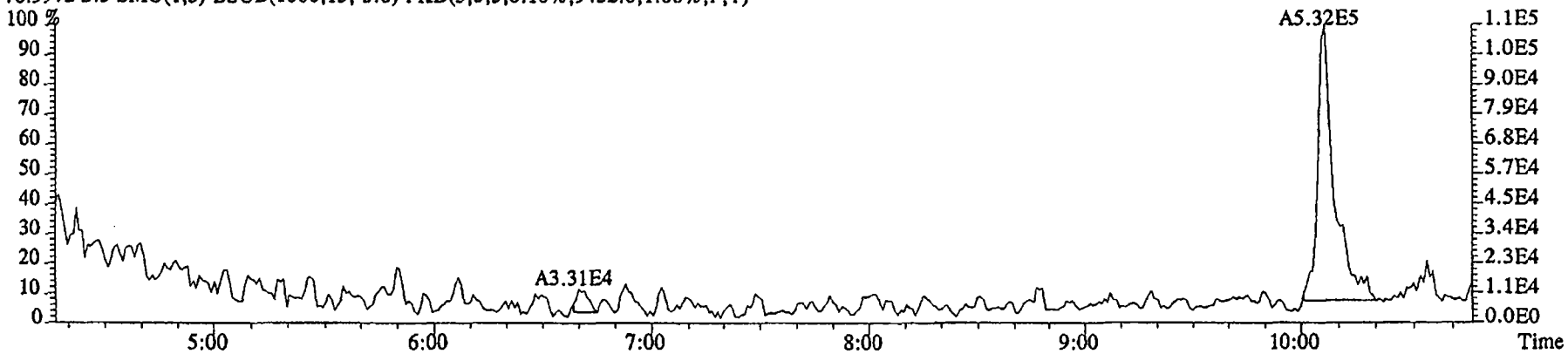
96.1026 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4844.0,1.00%,F,T)



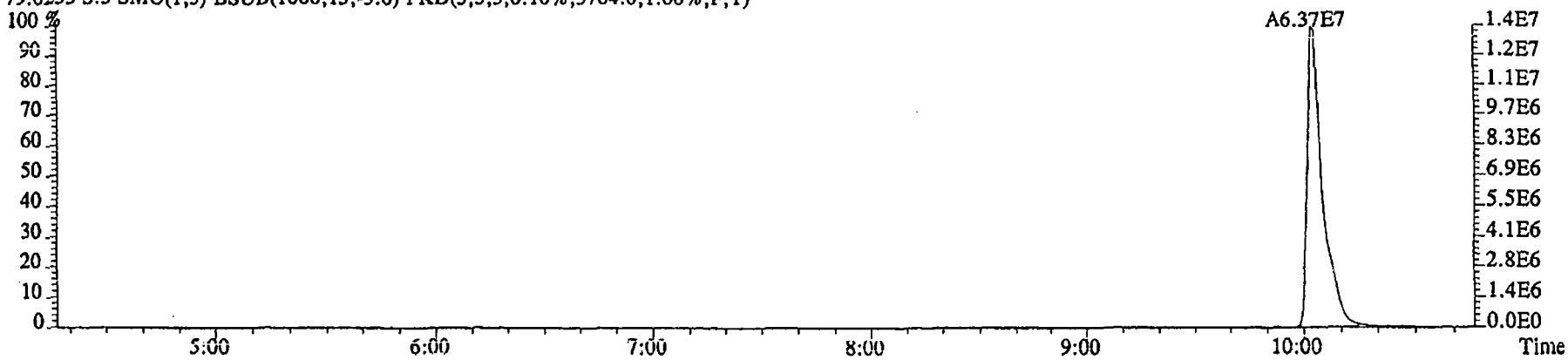
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
75.0002 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,65176.0,1.00%,F,T)



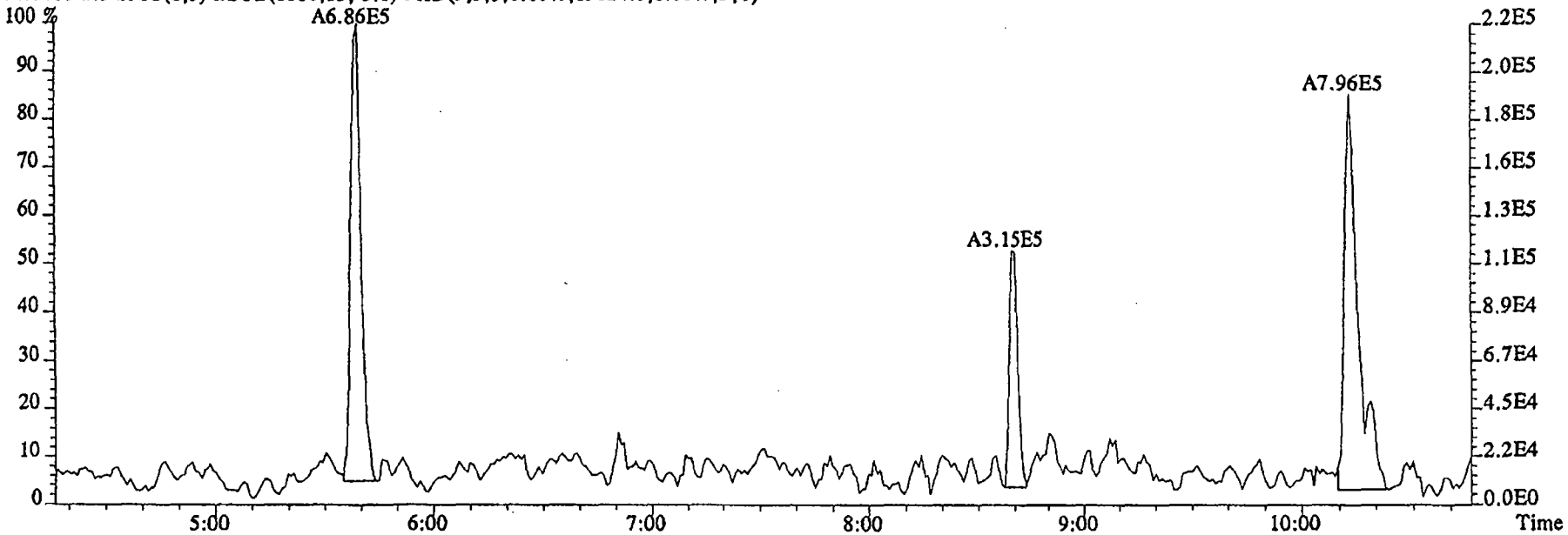
76.9972 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9432.0,1.00%,F,T)



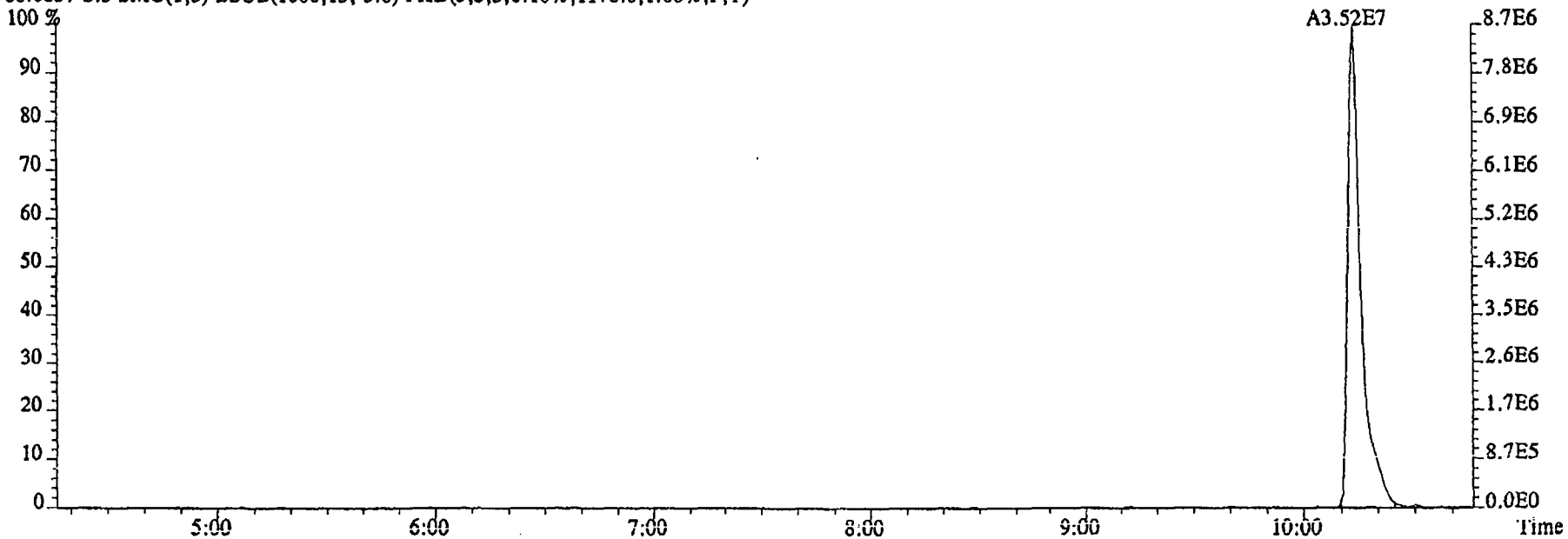
79.0253 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3704.0,1.00%,F,T)



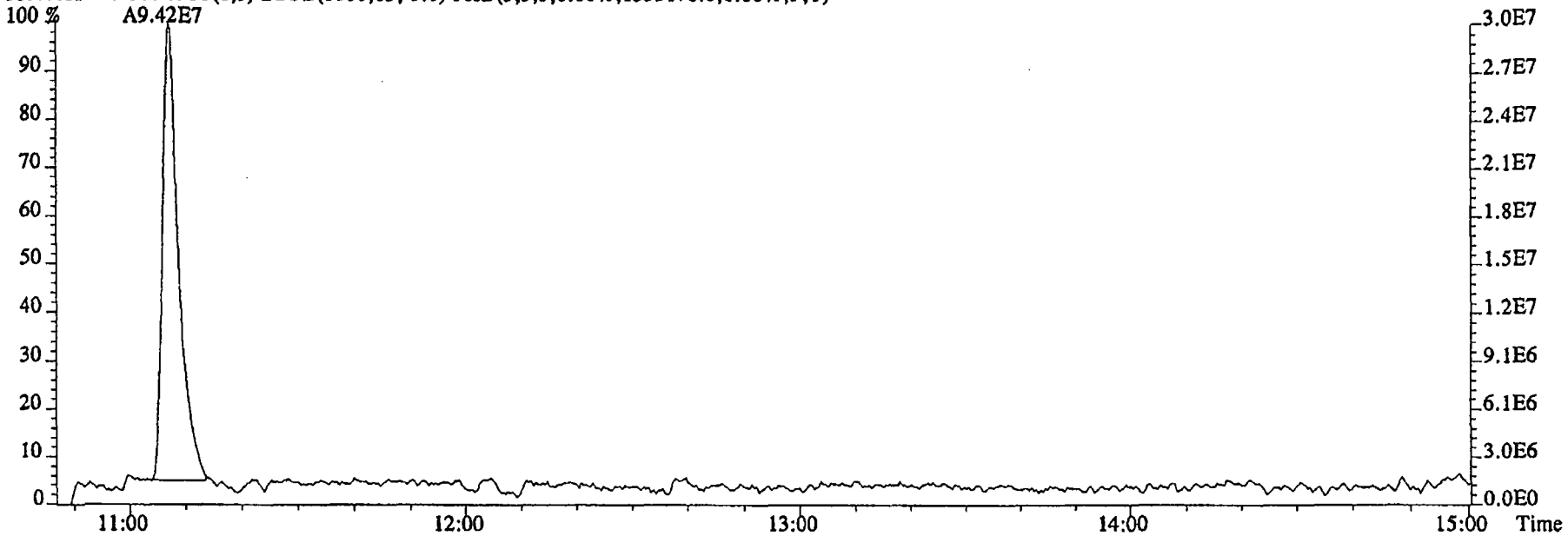
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
74.0480 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19624.0,1.00%,F,T)



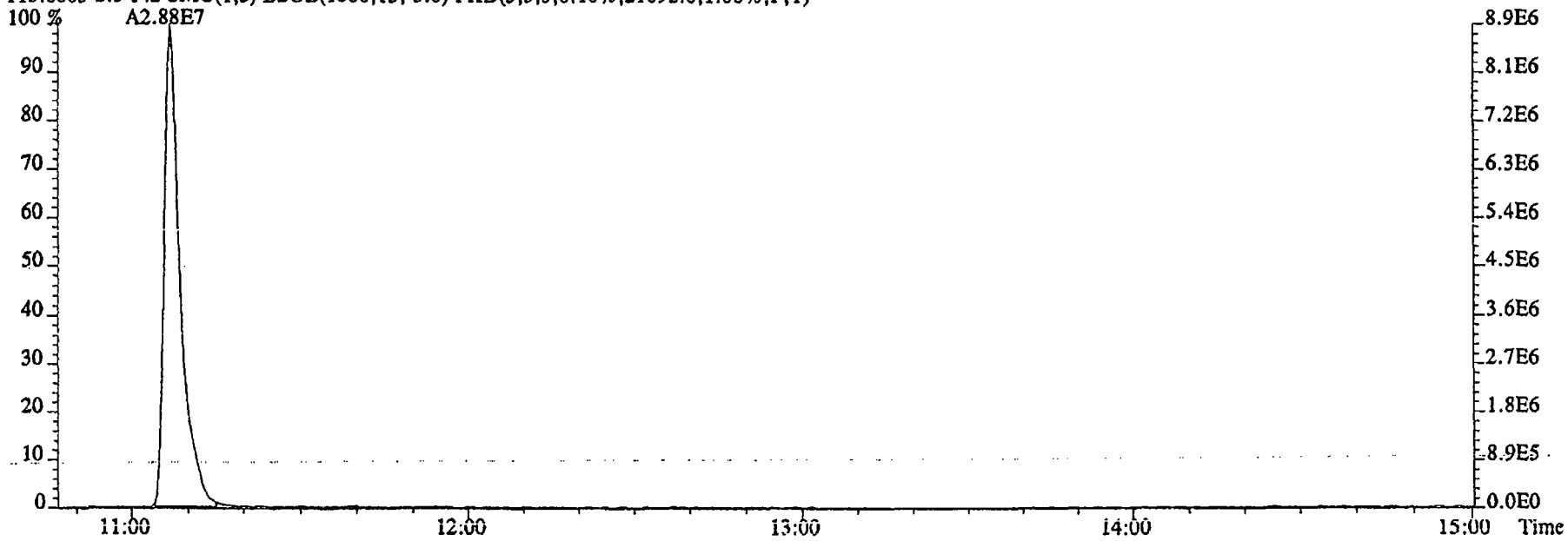
80.0857 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)



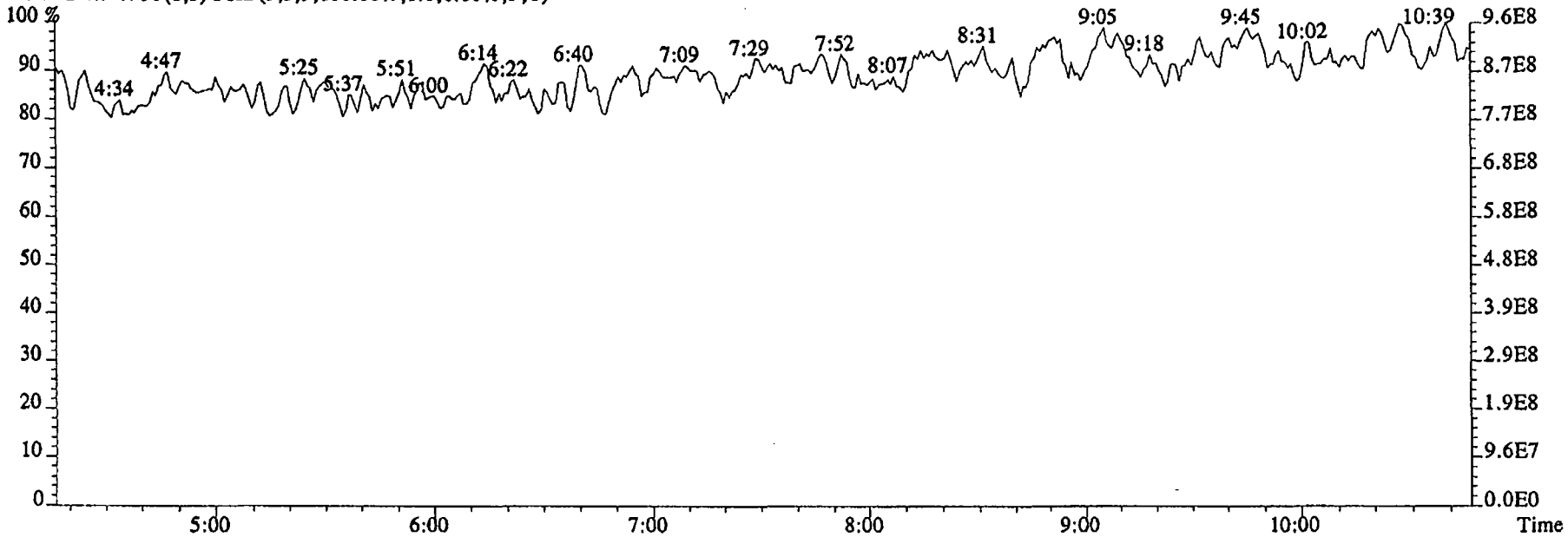
File:09DE045SP #1-591 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
113.0032 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1553176.0,1.00%,F,T)



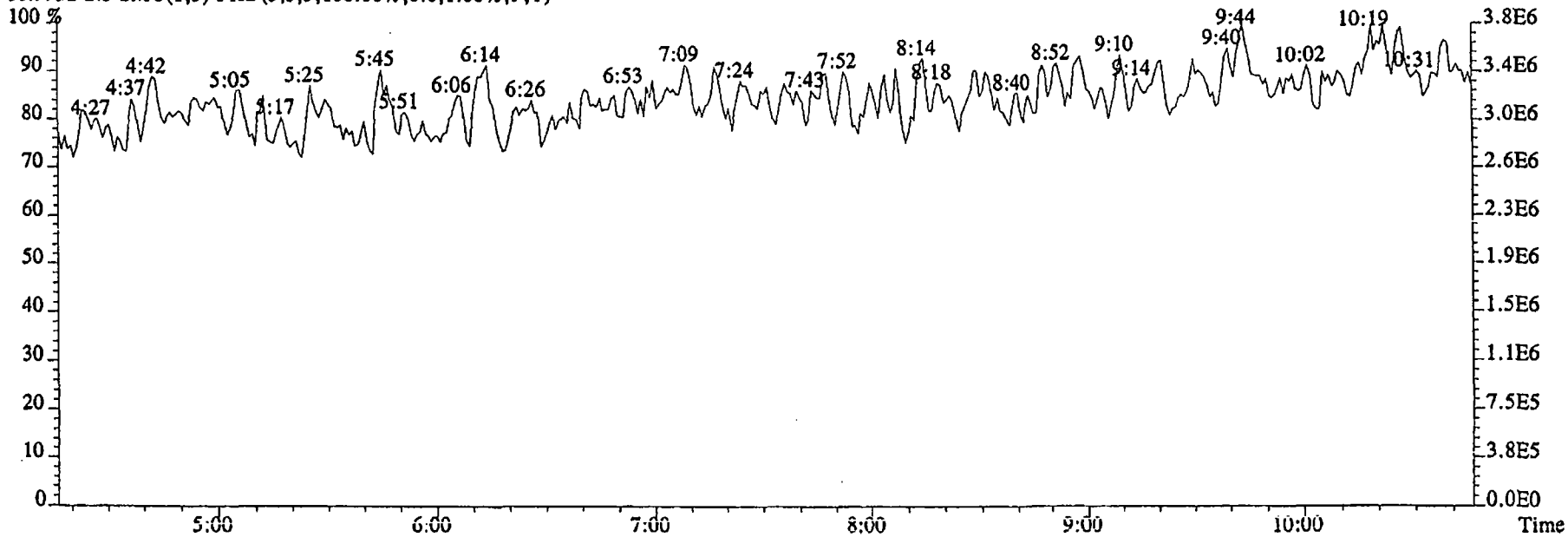
115.0003 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21092.0,1.00%,F,T)



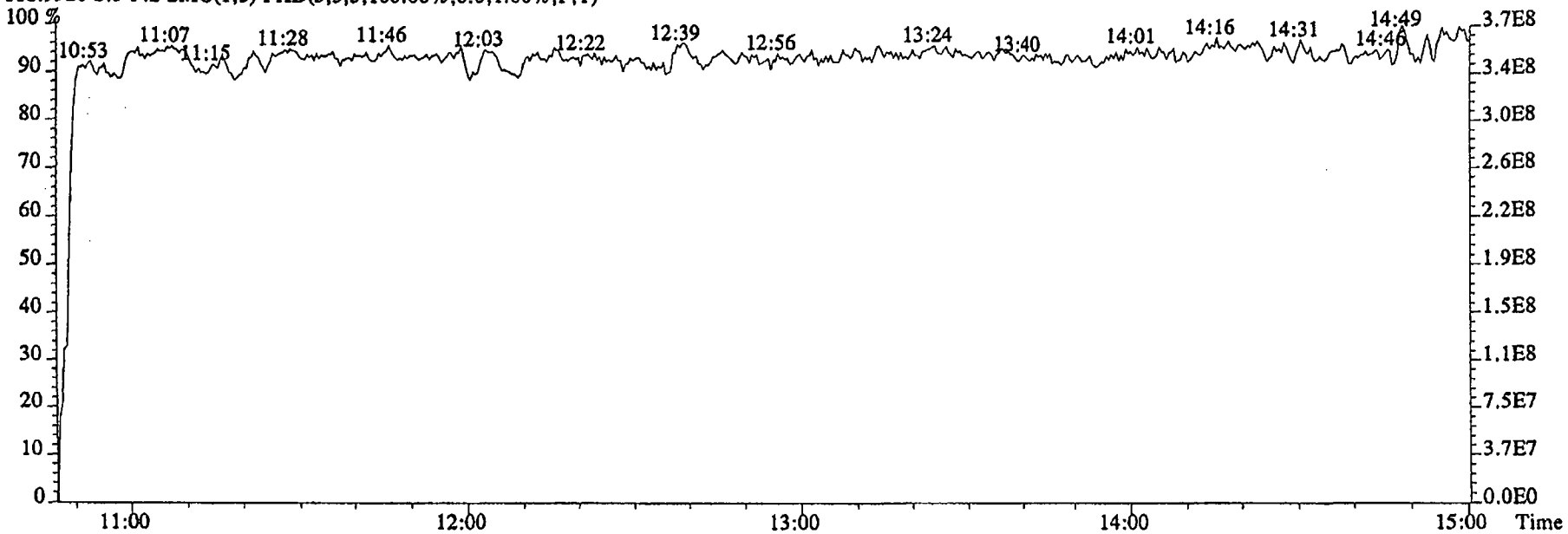
File:09DE045SP #1-480 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
68.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



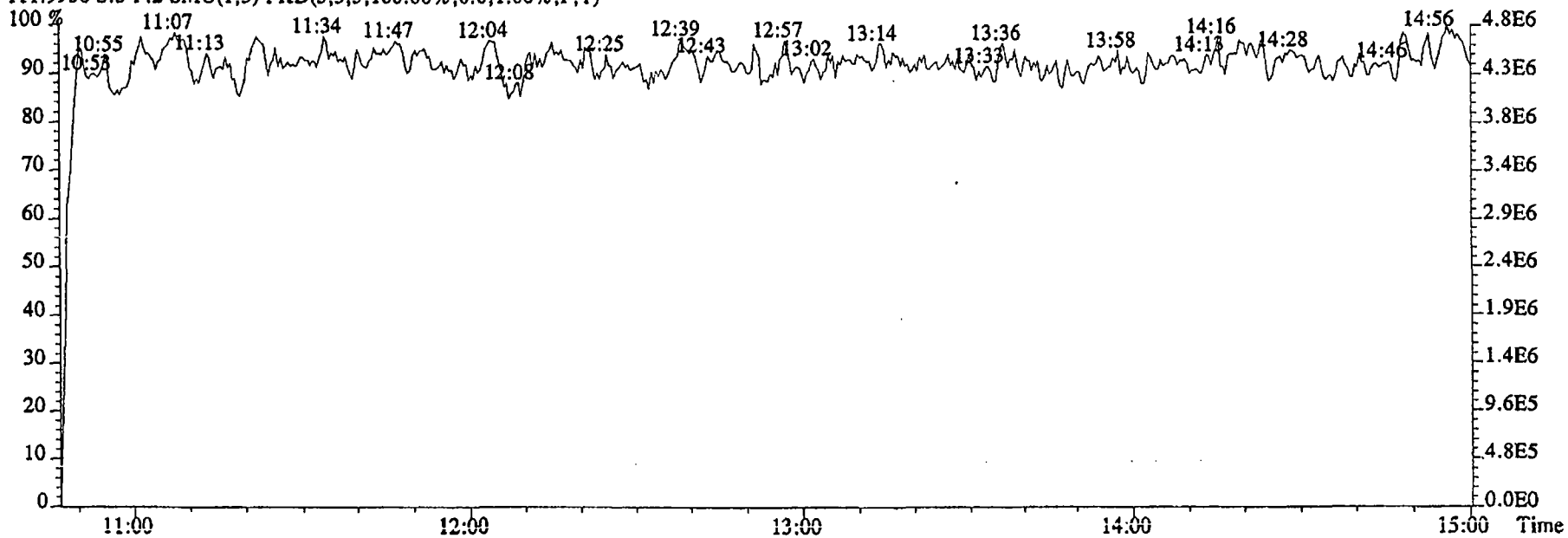
80.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



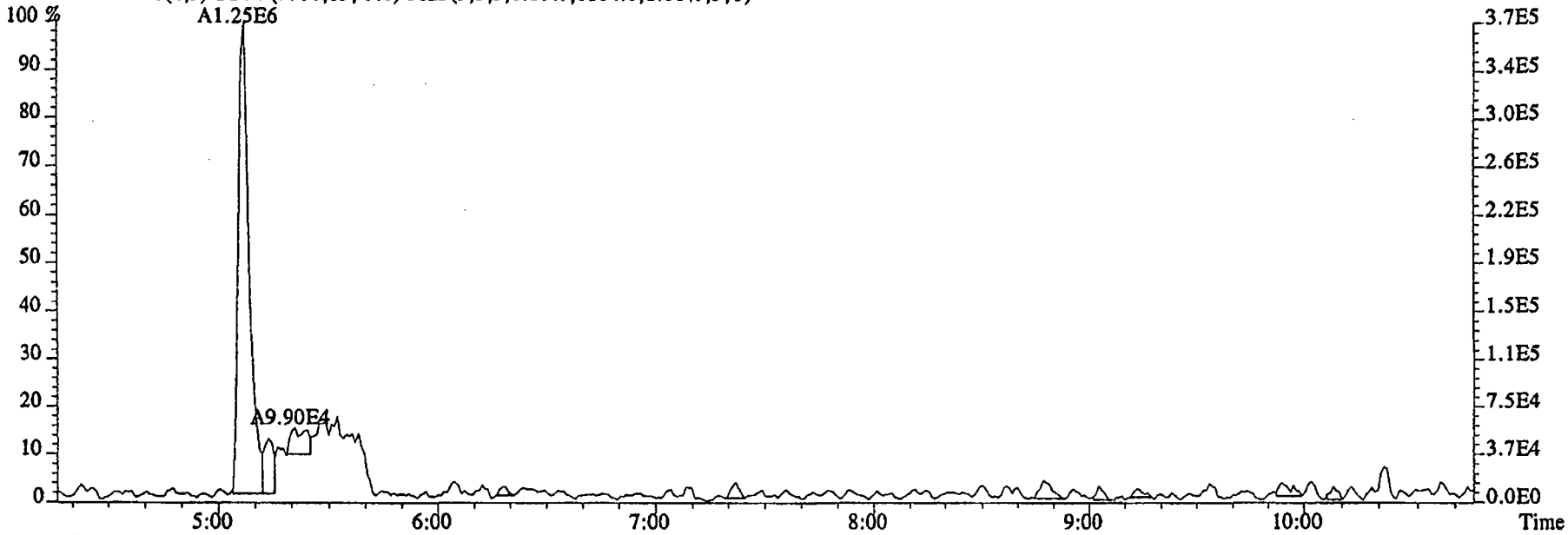
File:09DE045SP #1-591 Acq: 9-DEC-2004 18:52:47 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1209B :CS1 2350-68A Exp:NDMAVOA
118.9920 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



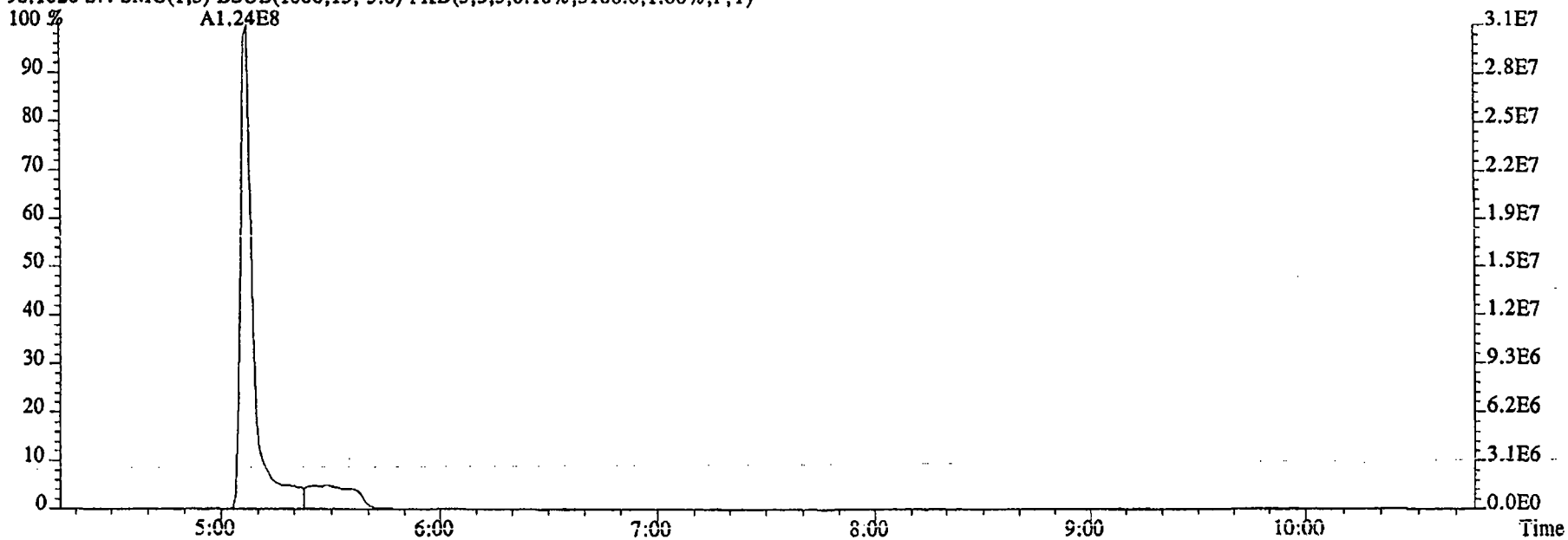
111.9936 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



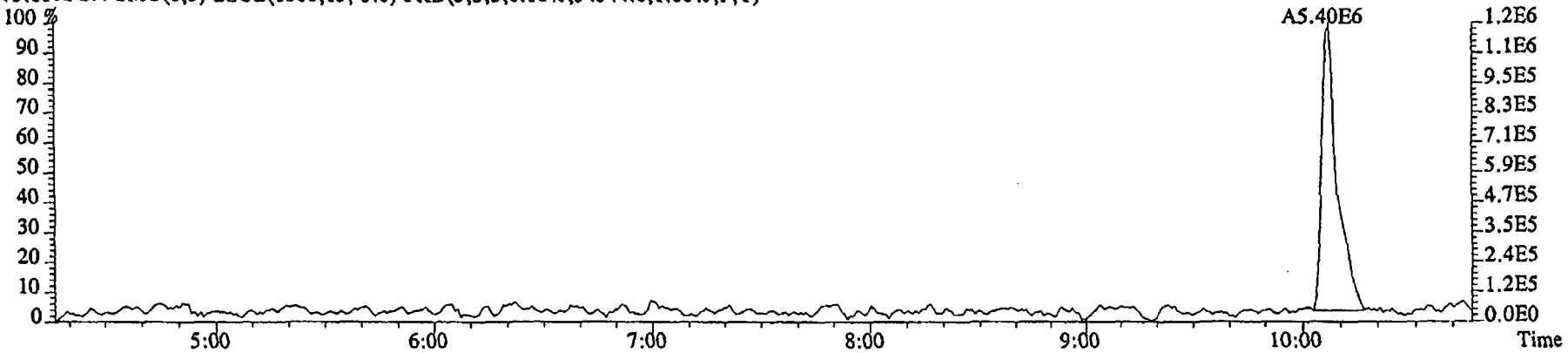
File:09DE045SP #1-480 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
88.0524 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8104.0,1.00%,F,T)



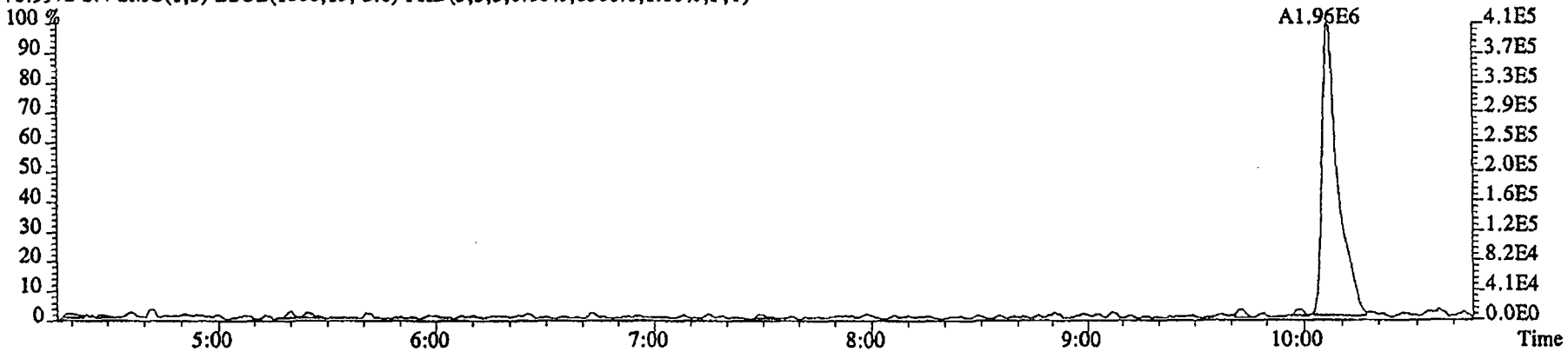
96.1026 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3108.0,1.00%,F,T)



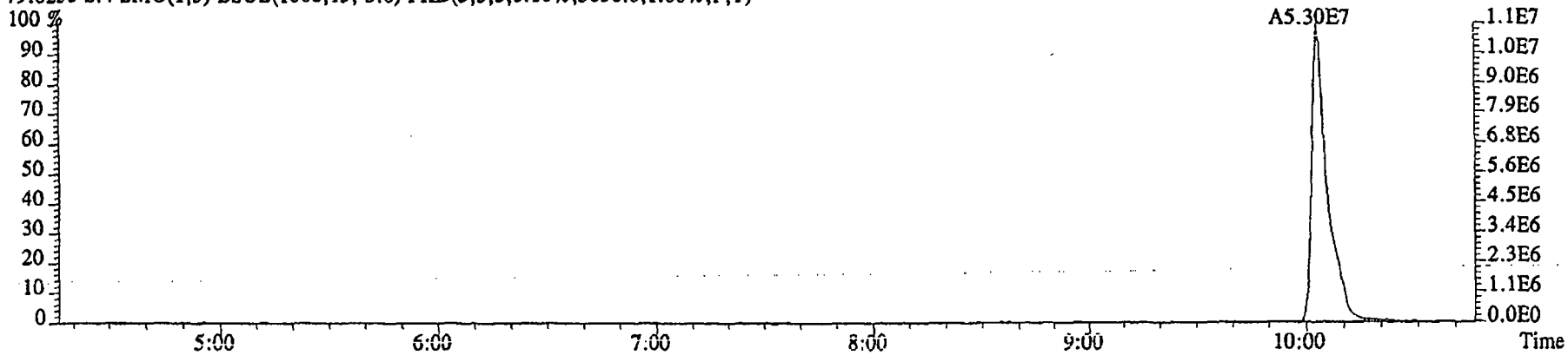
File:09DE045SP #1-480 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
75.0002 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,54544.0,1.00%,F,T)



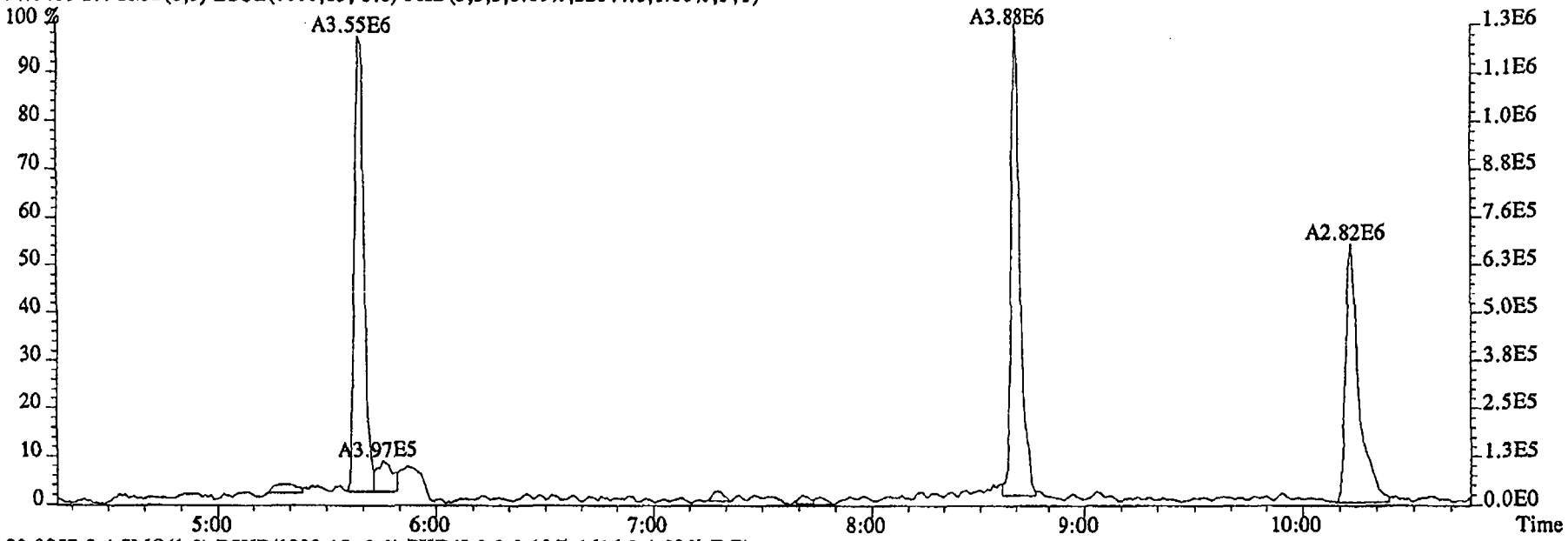
76.9972 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6508.0,1.00%,F,T)



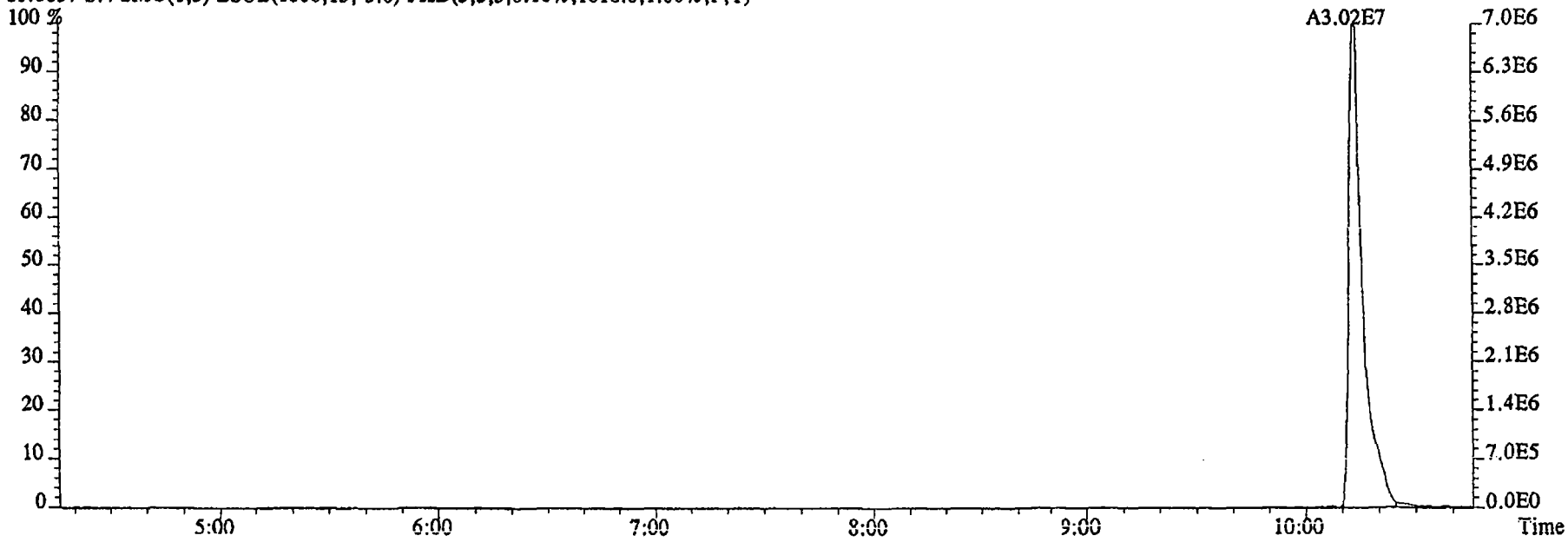
79.0253 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5636.0,1.00%,F,T)



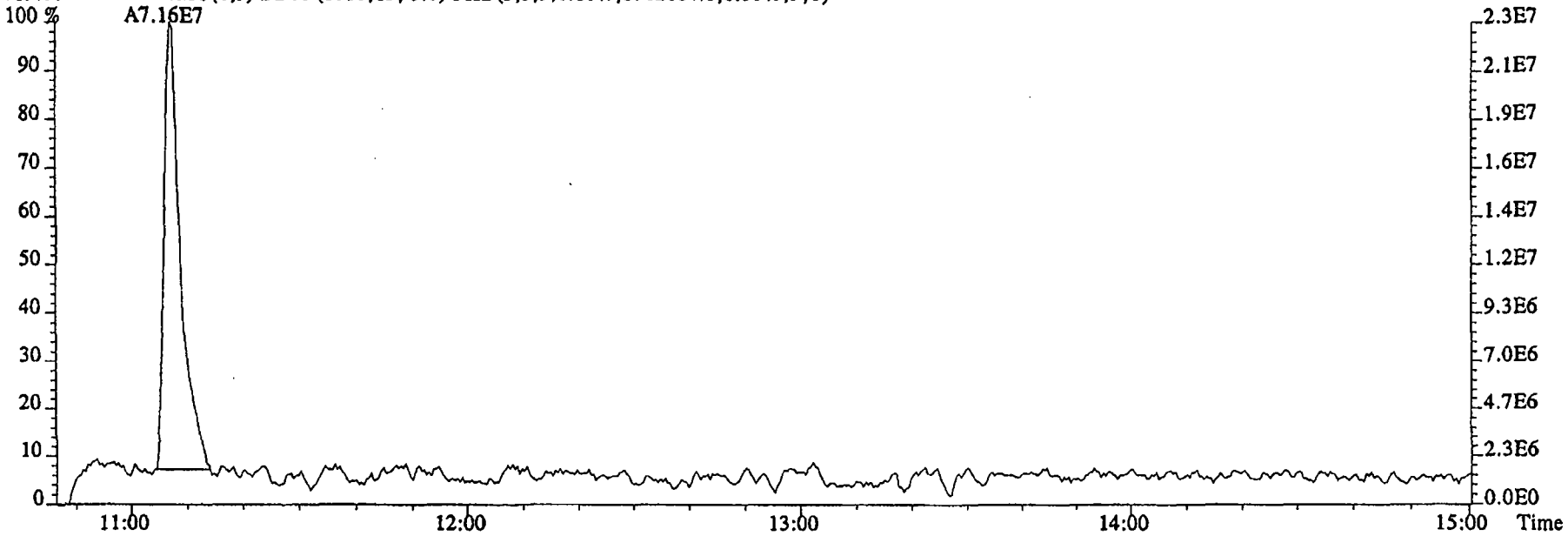
File:09DE045SP #1-480 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
74.0480 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22044.0,1.00%,F,T)



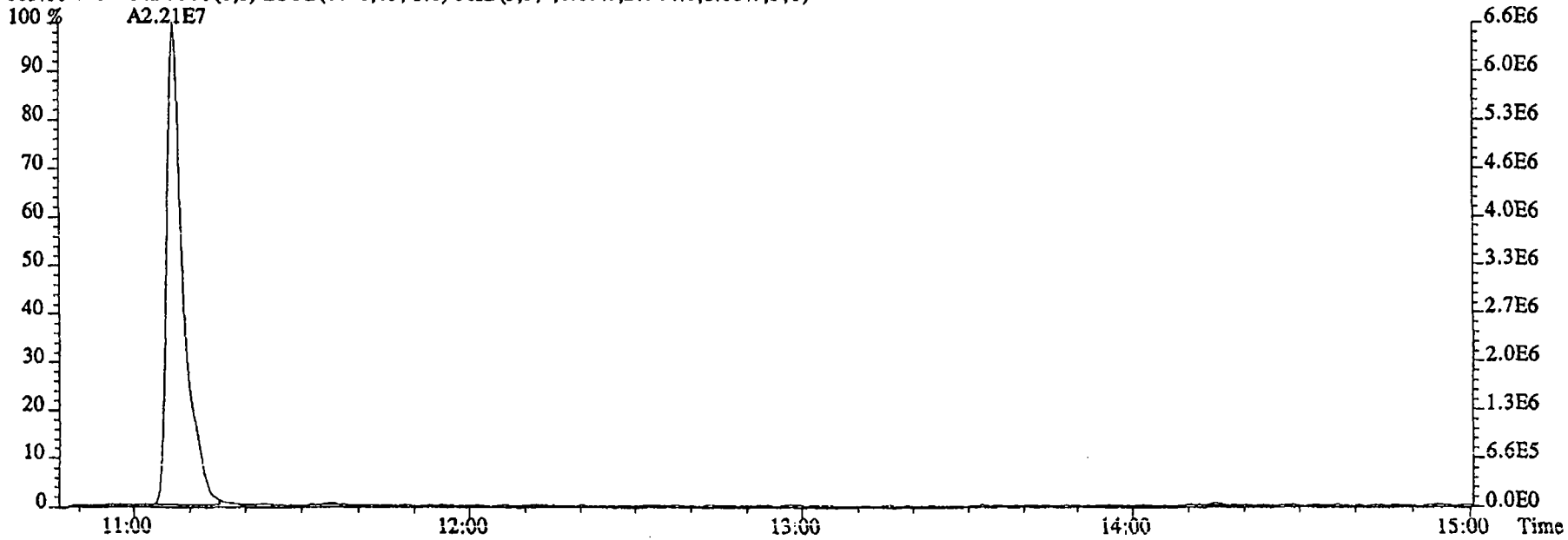
80.0857 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



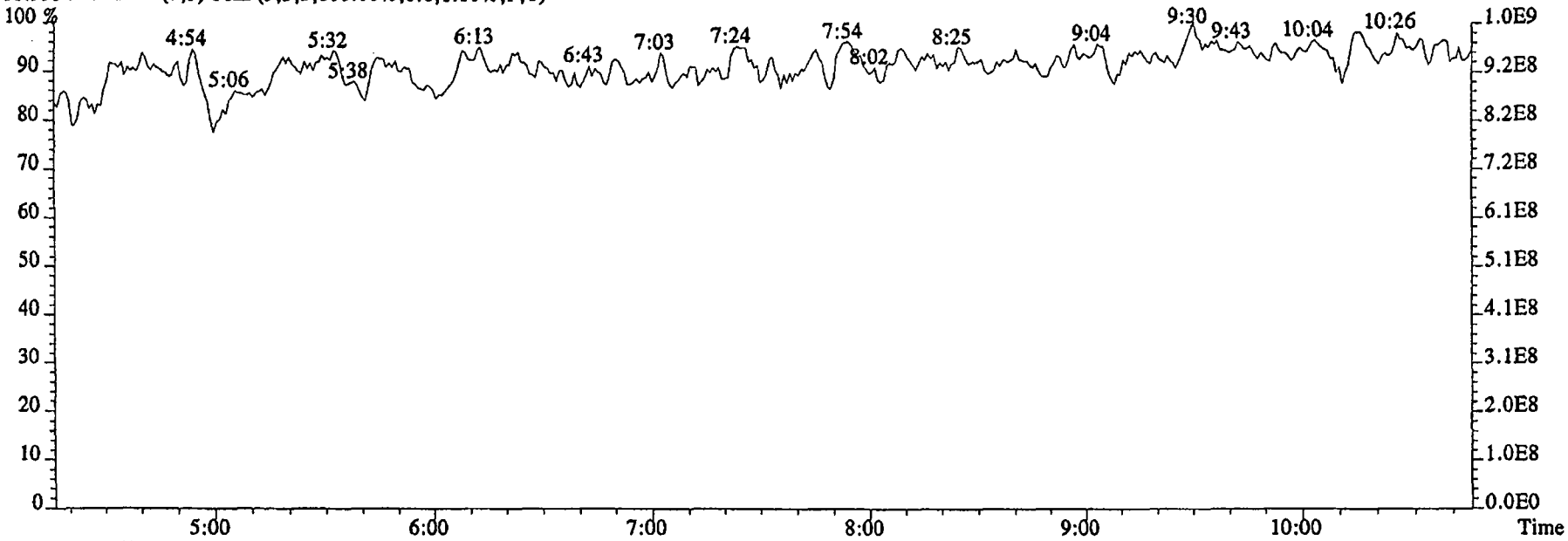
File:09DE045SP #1-592 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
113.0032 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1762664.0,1.00%,F,T)



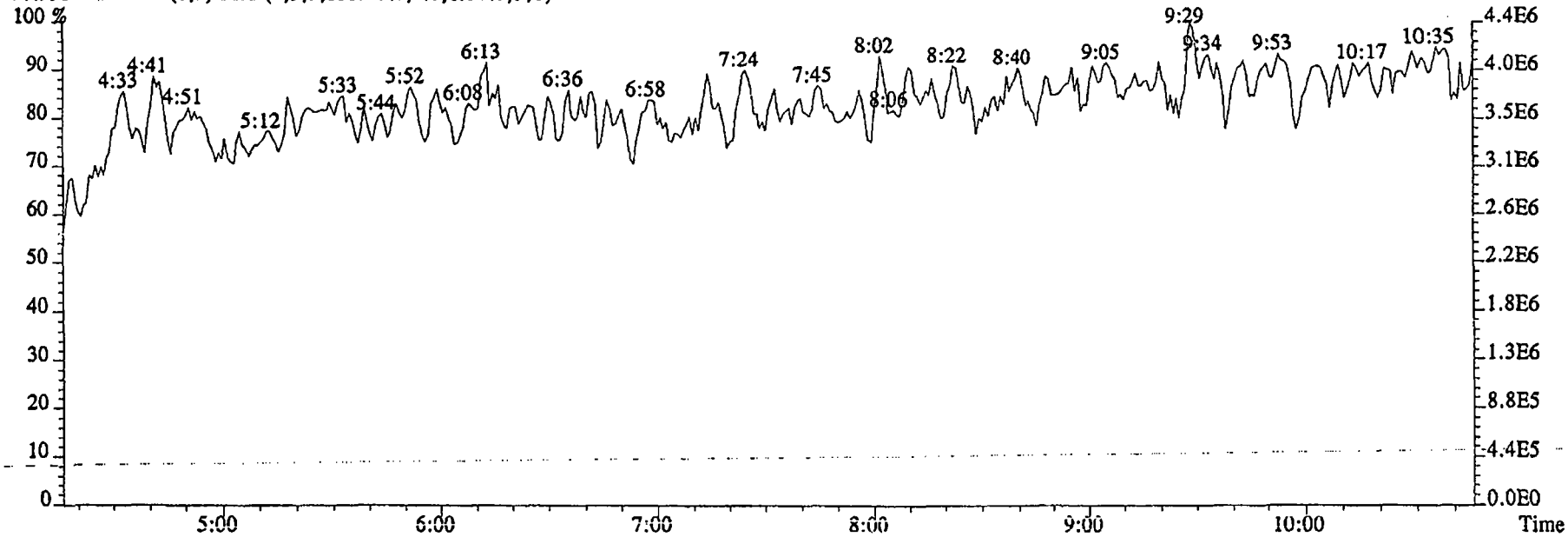
115.0003 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20984.0,1.00%,F,T)



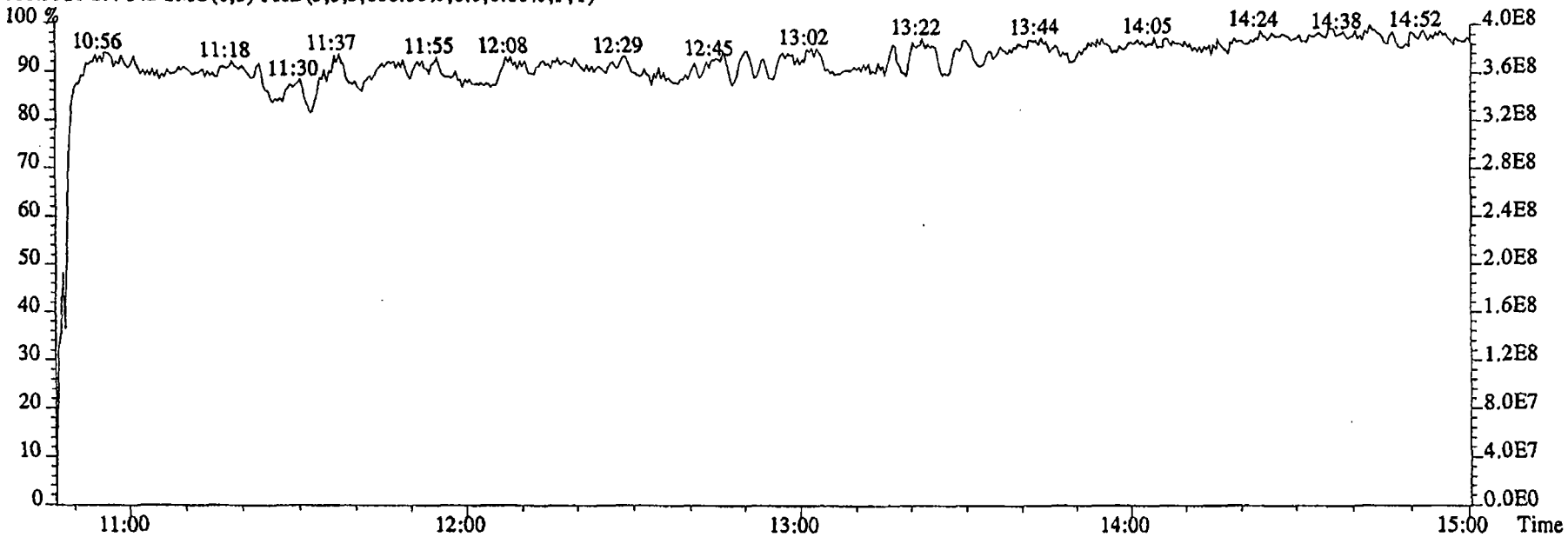
File:09DE045SP #1-480 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
68.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



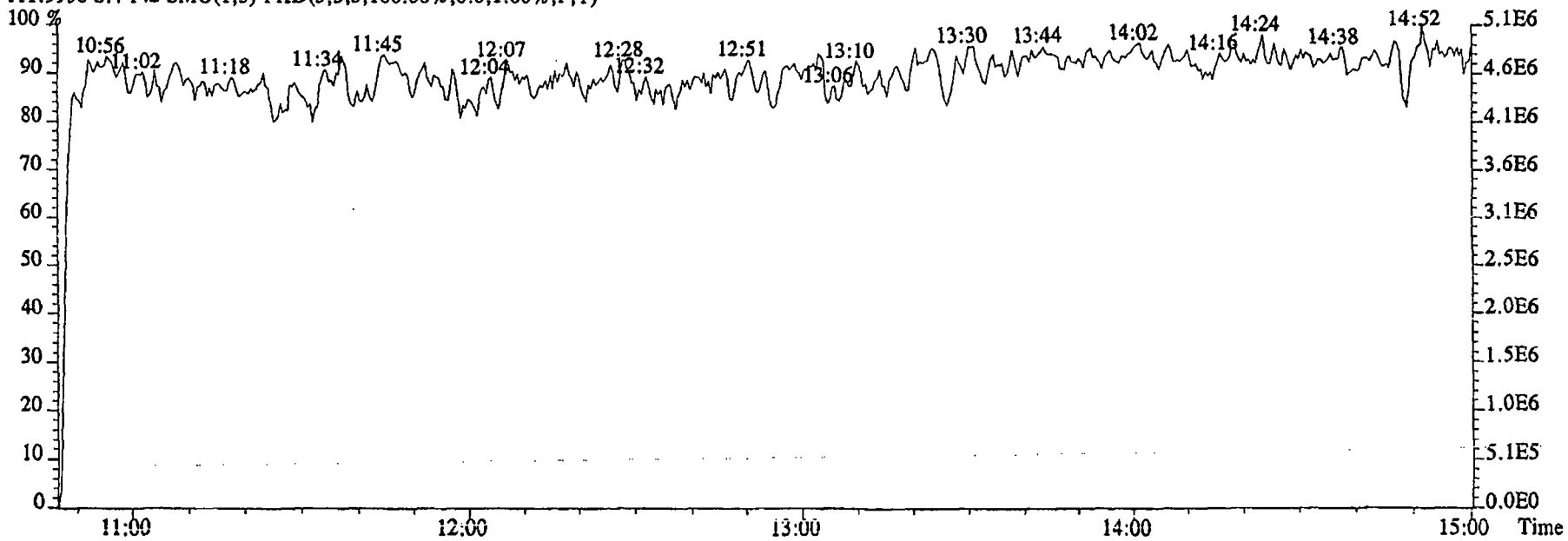
80.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



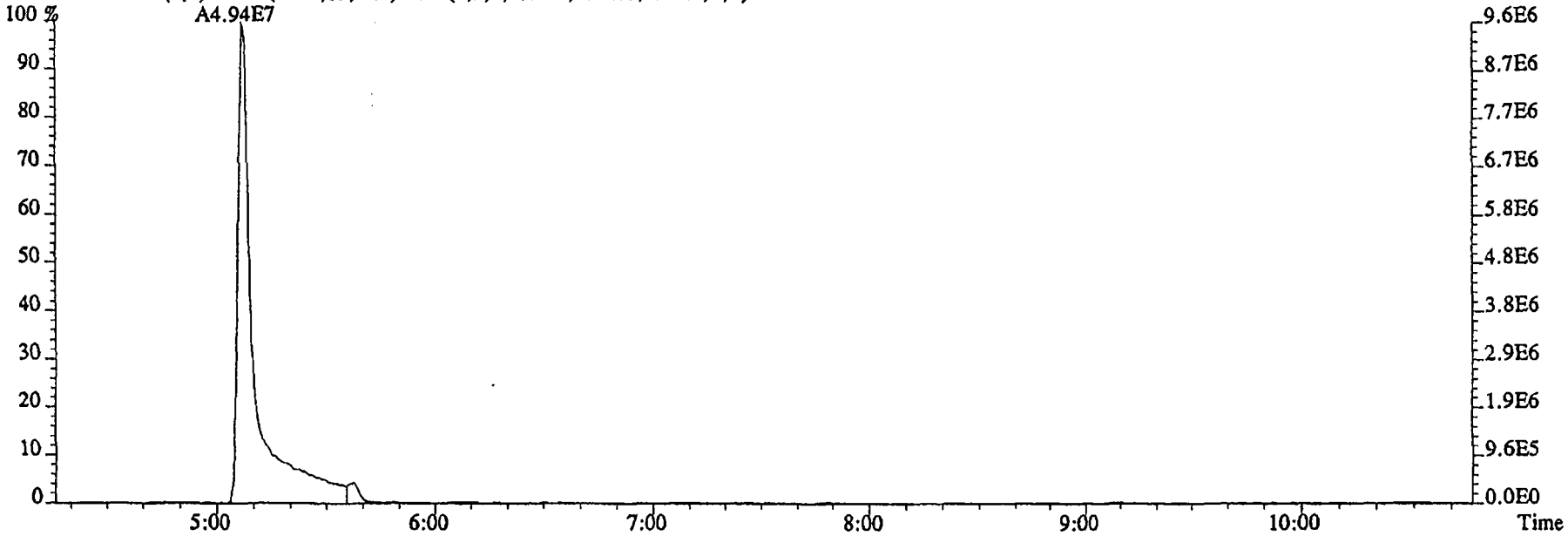
File:09DE045SP #1-592 Acq: 9-DEC-2004 19:13:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1209C :CS2 2350-68B Exp:NDMAVOA
118.9920 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



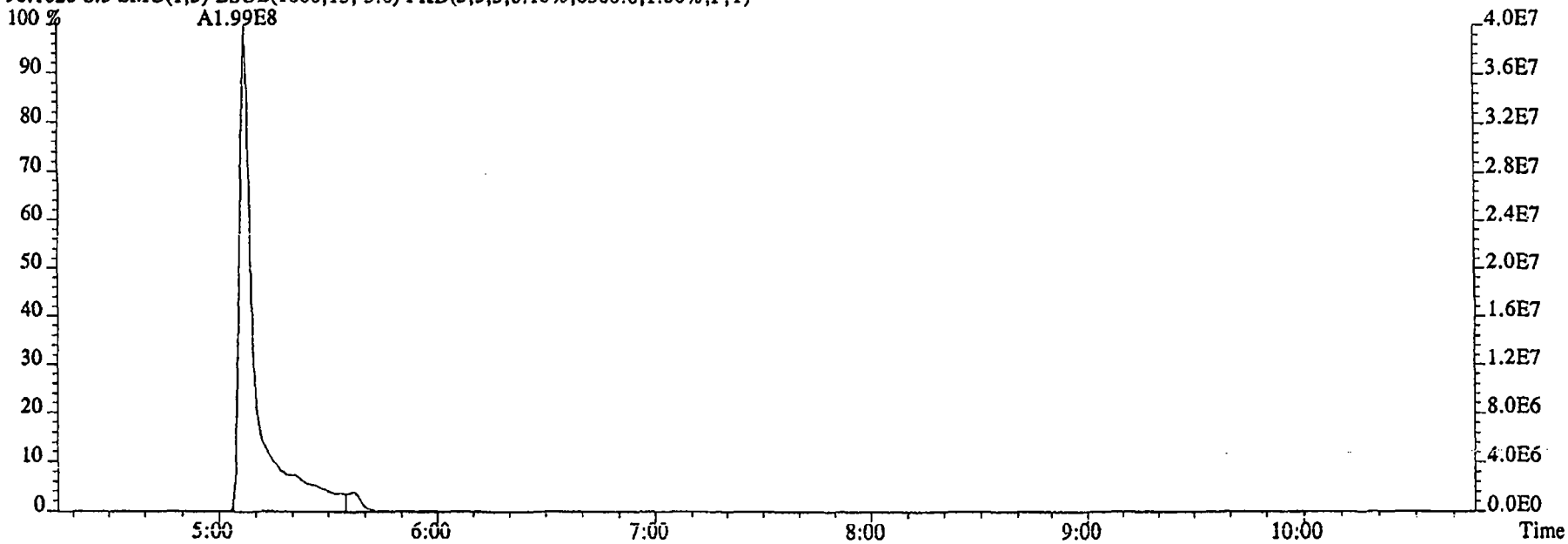
111.9936 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



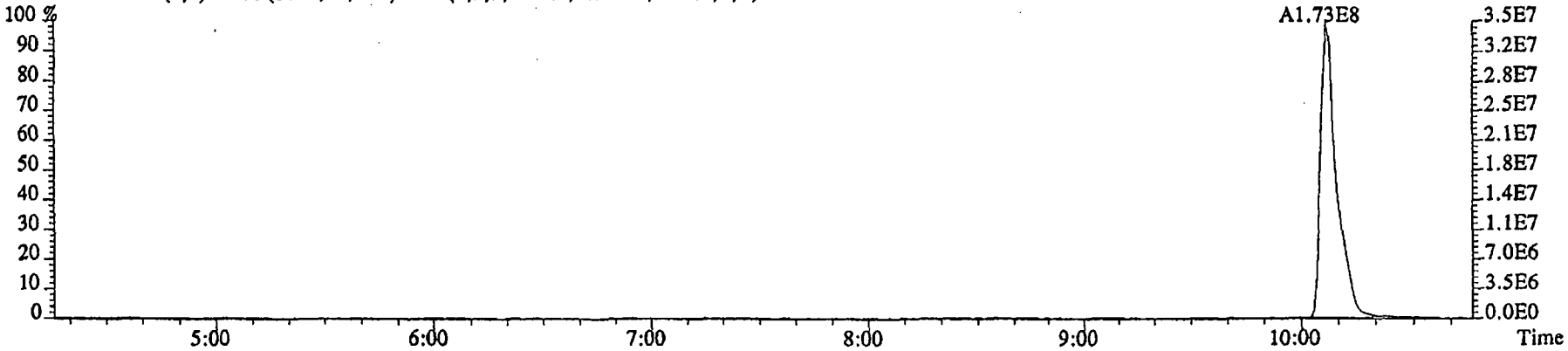
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
88.0524 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8524.0,1.00%,F,T)



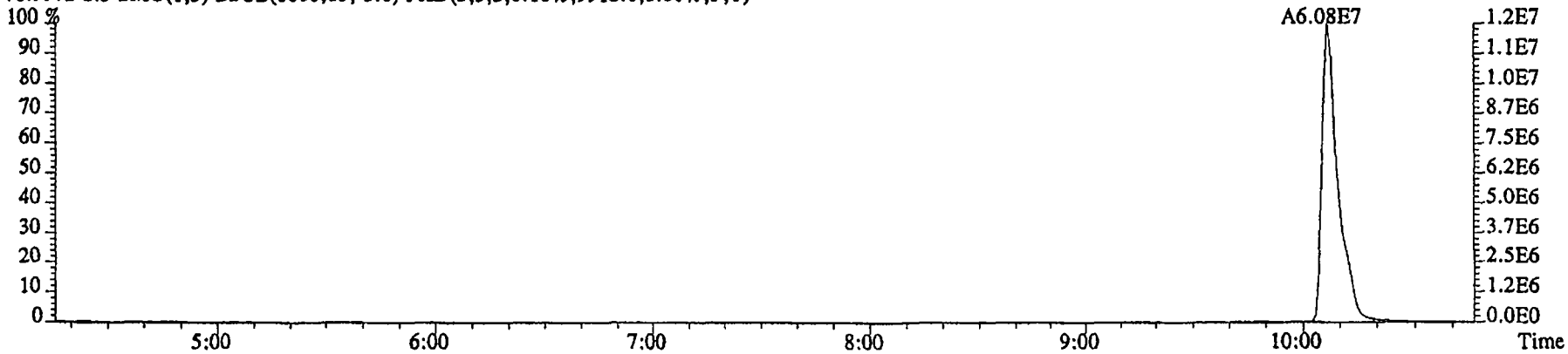
96.1026 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6300.0,1.00%,F,T)



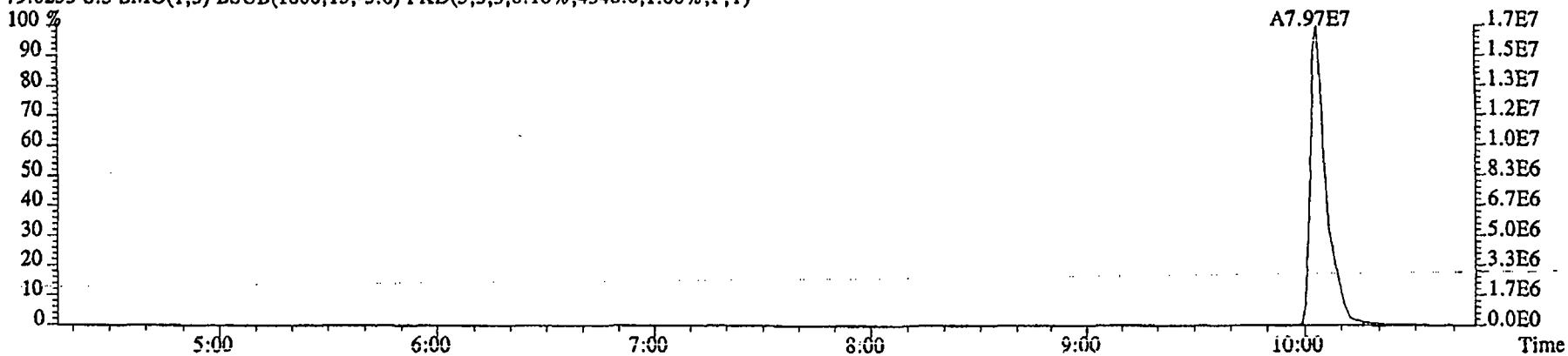
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
75.0002 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50904.0,1.00%,F,T)



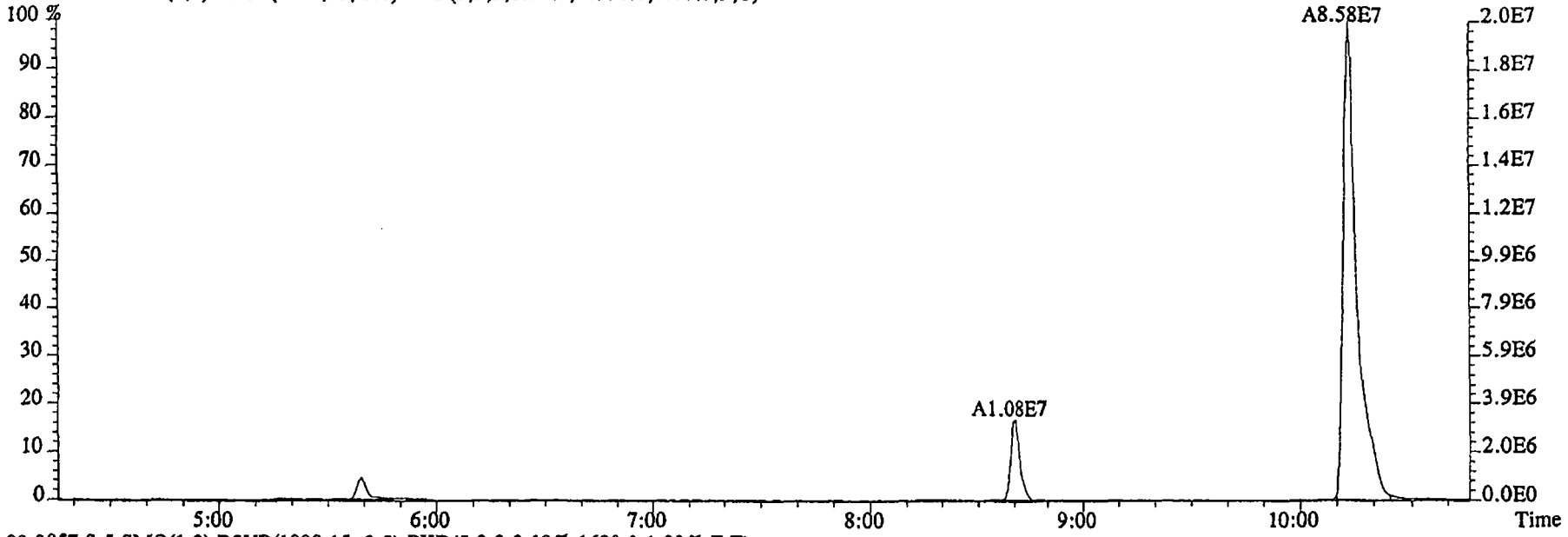
76.9972 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9912.0,1.00%,F,T)



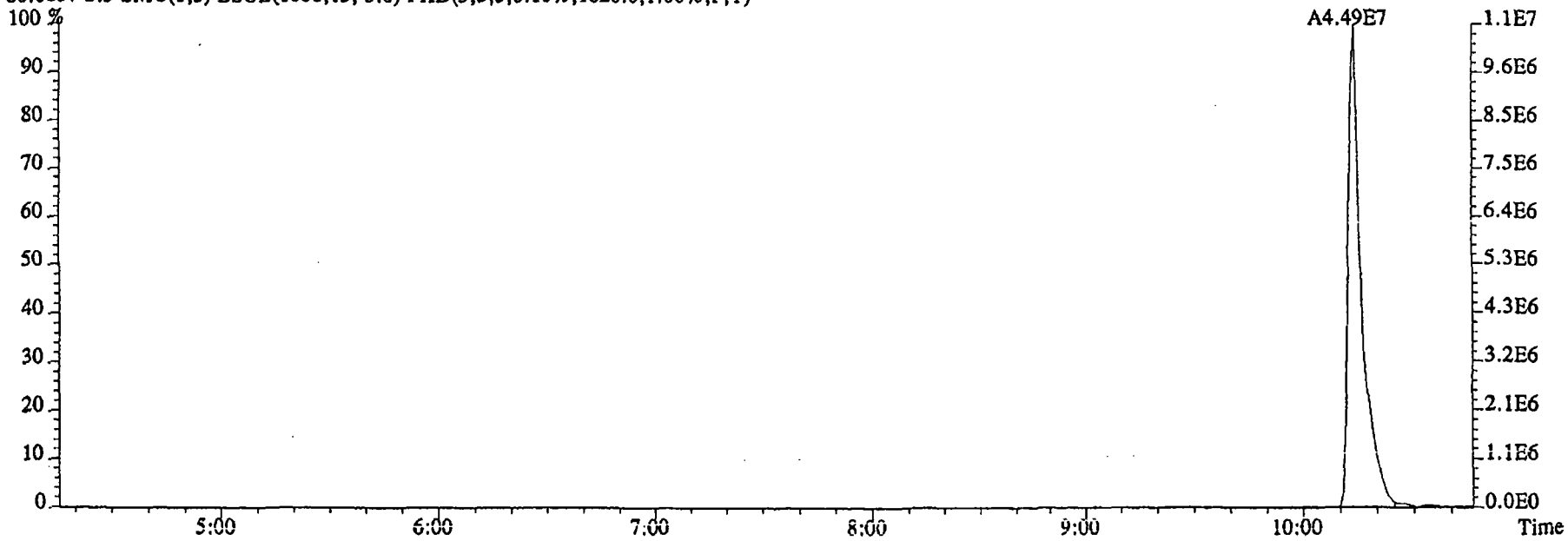
79.0253 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4548.0,1.00%,F,T)



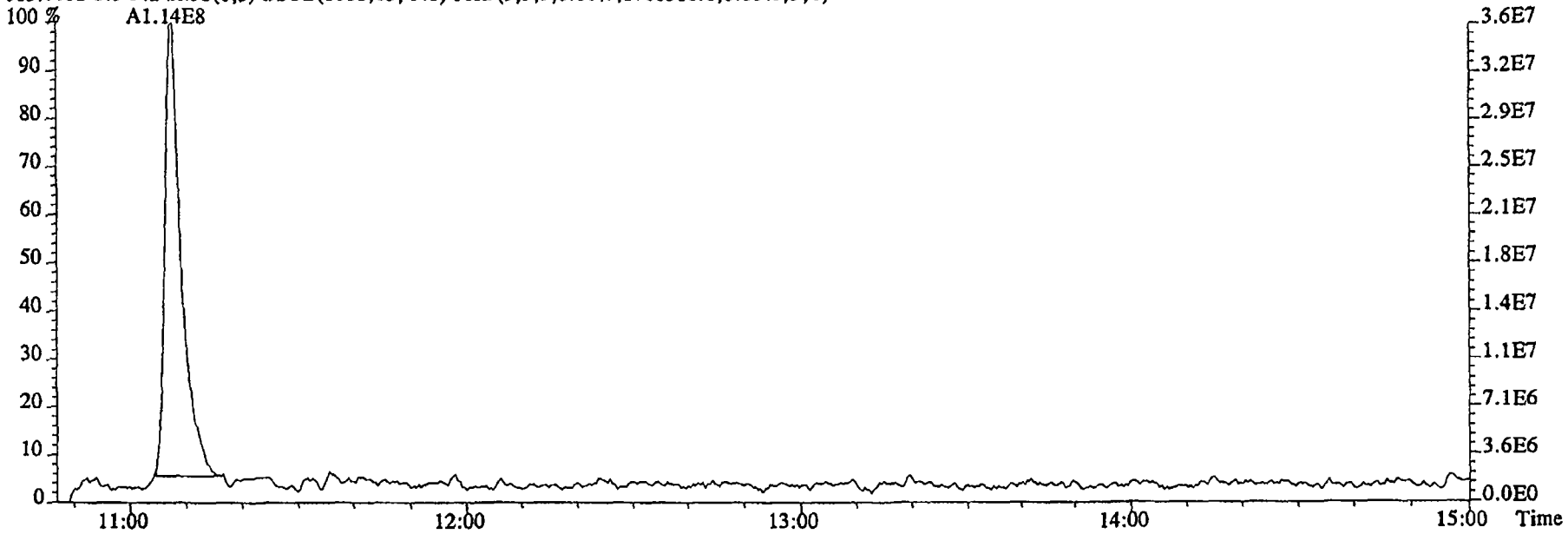
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
74.0480 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16996.0,1.00%,F,T)



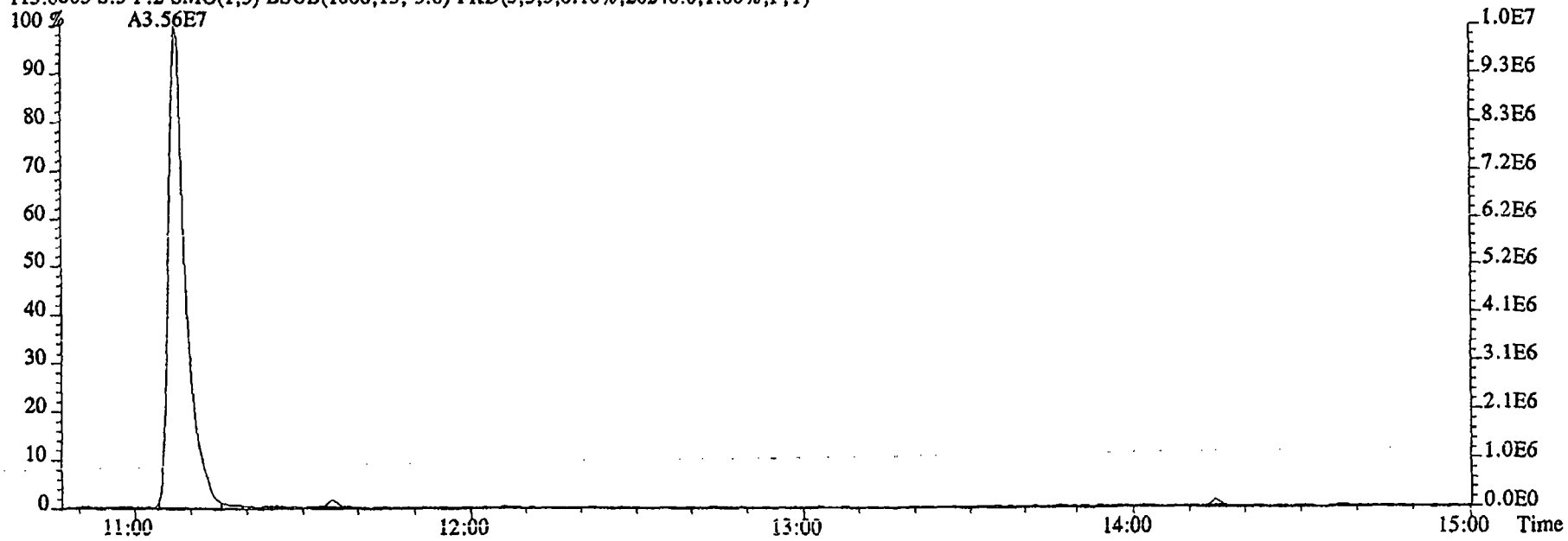
80.0857 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1620.0,1.00%,F,T)



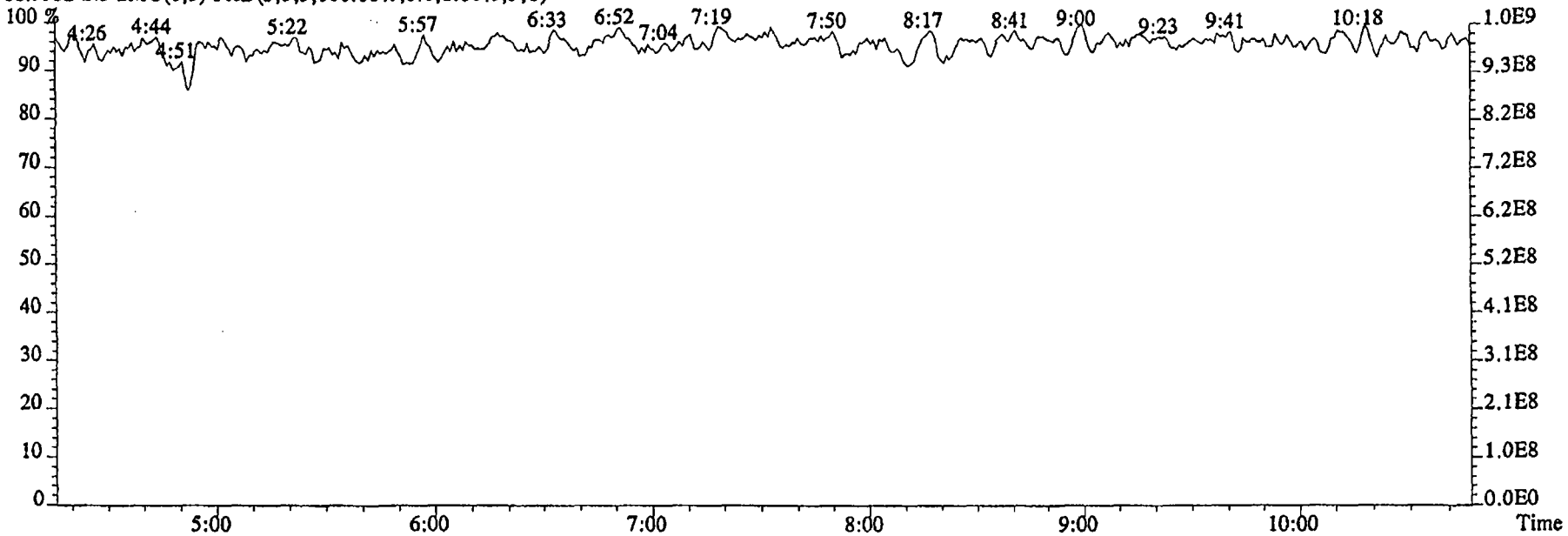
File:09DE045SP #1-590 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
113.0032 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1718516.0,1.00%,F,T)



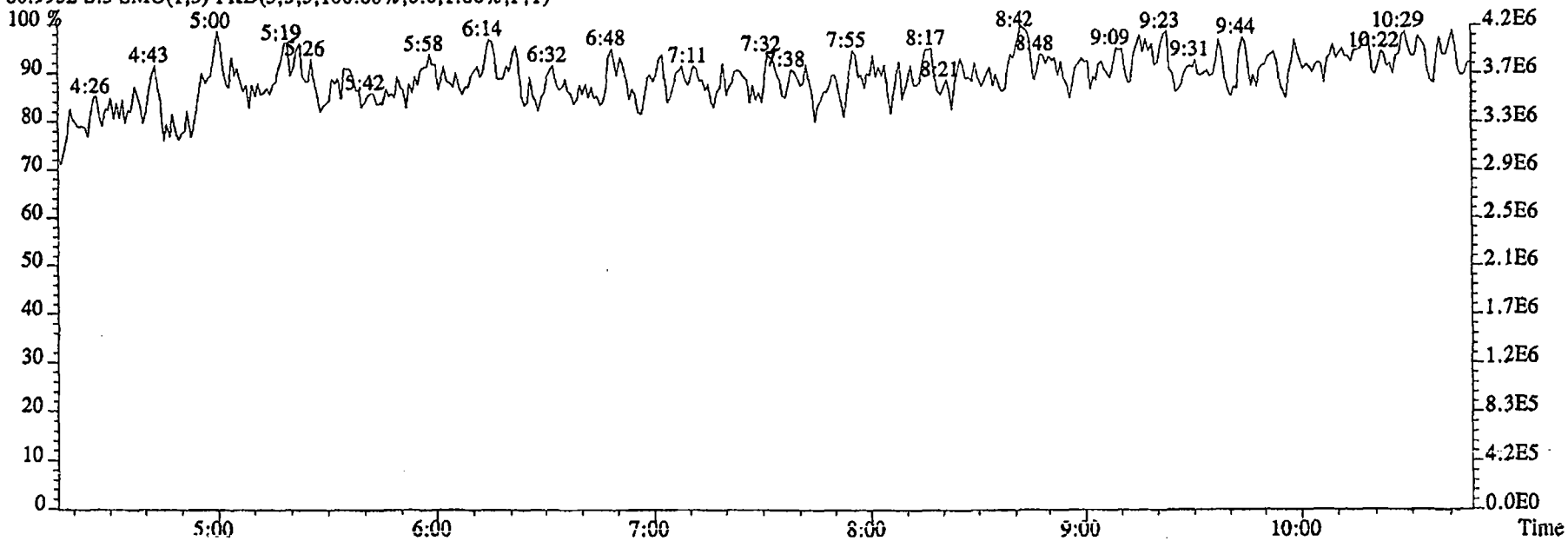
115.0003 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20240.0,1.00%,F,T)



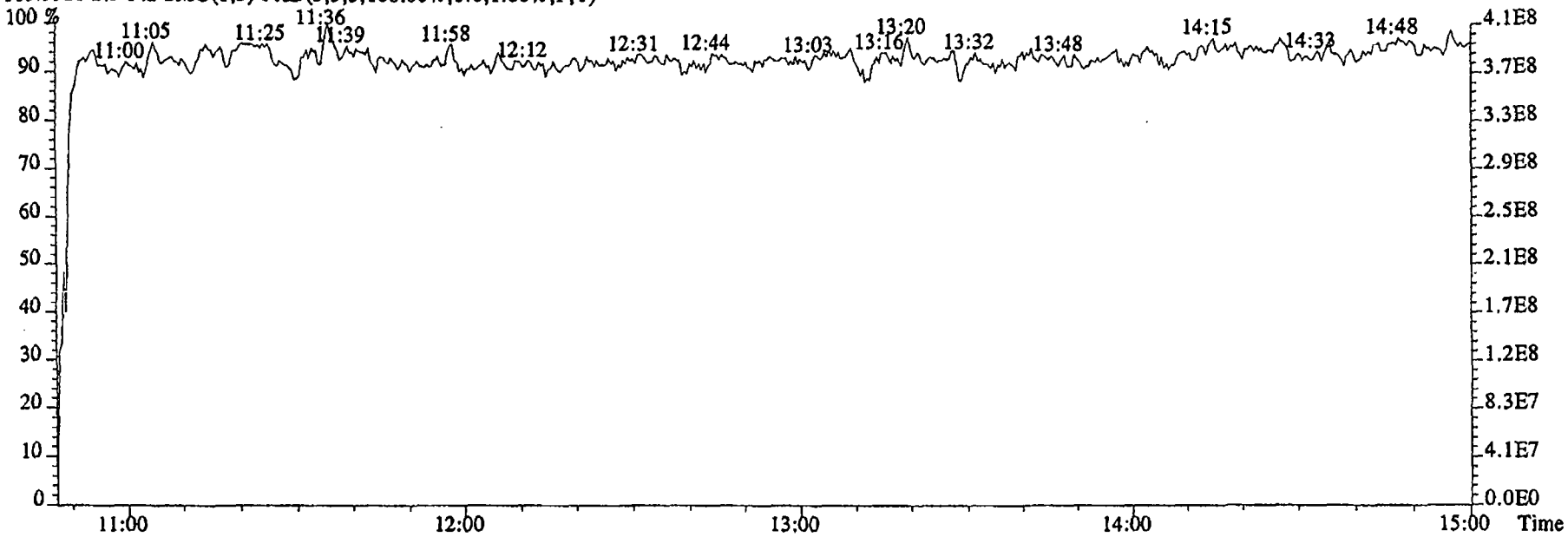
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
68.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



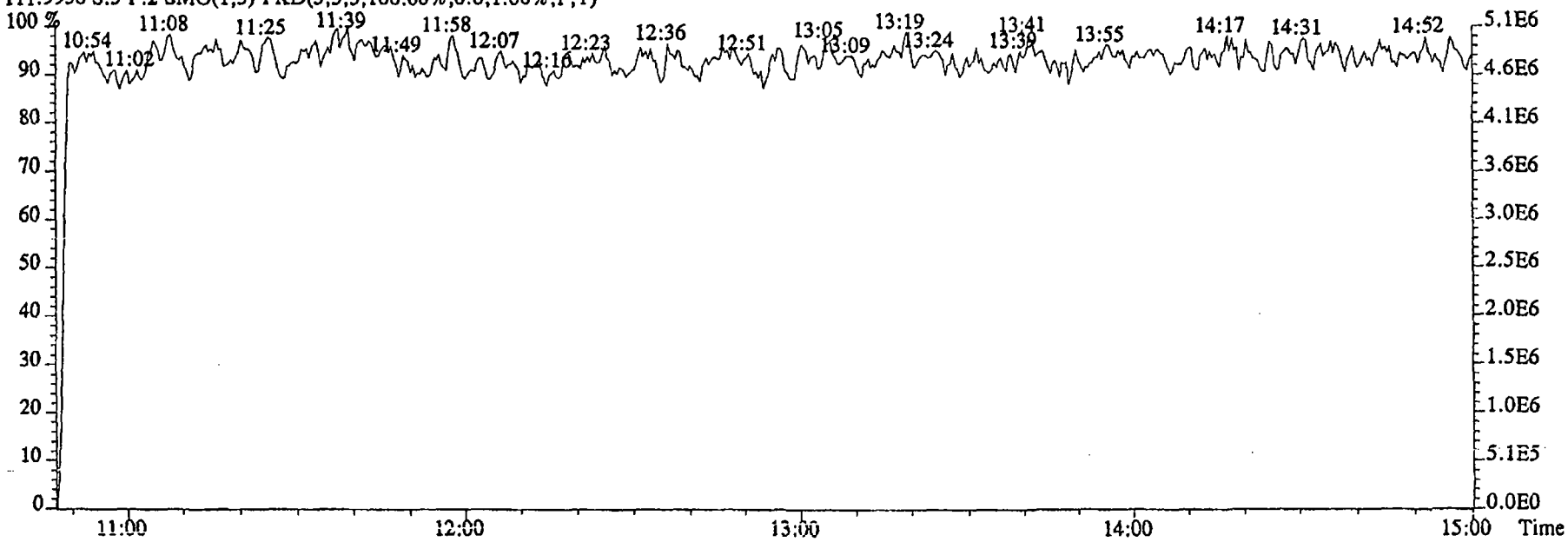
80.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



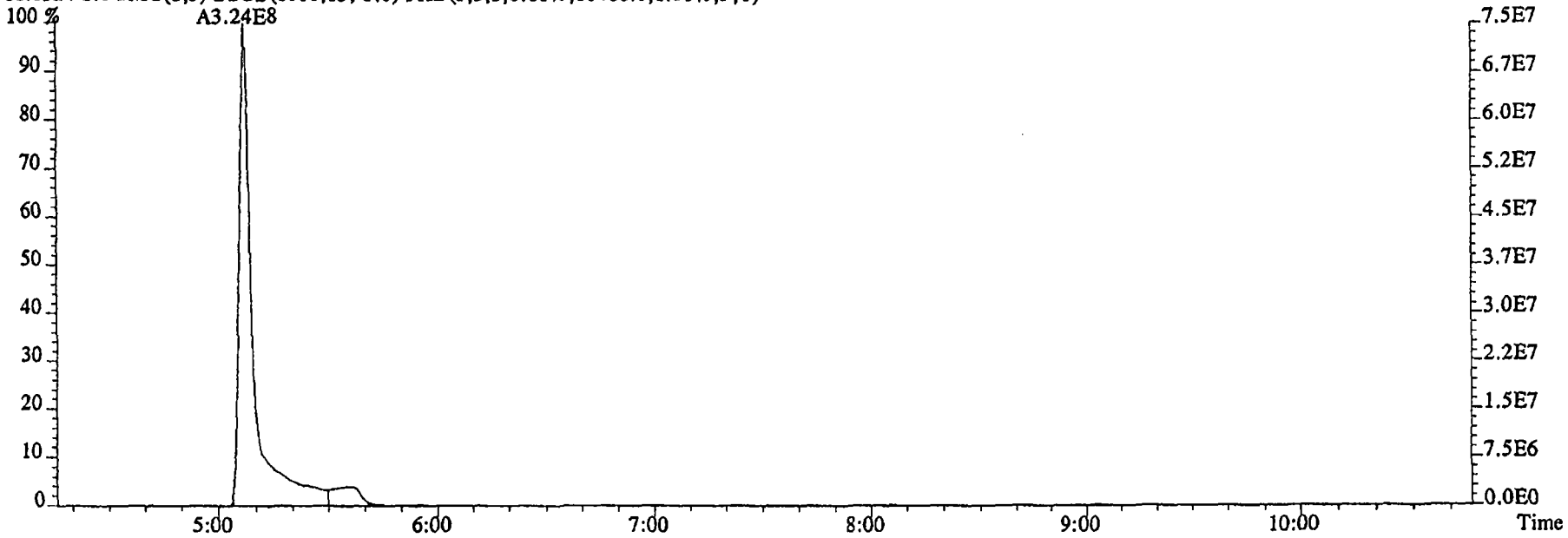
File:09DE045SP #1-590 Acq: 9-DEC-2004 19:33:37 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1209D :CS4 2350-68D Exp:NDMAVOA
118.9920 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



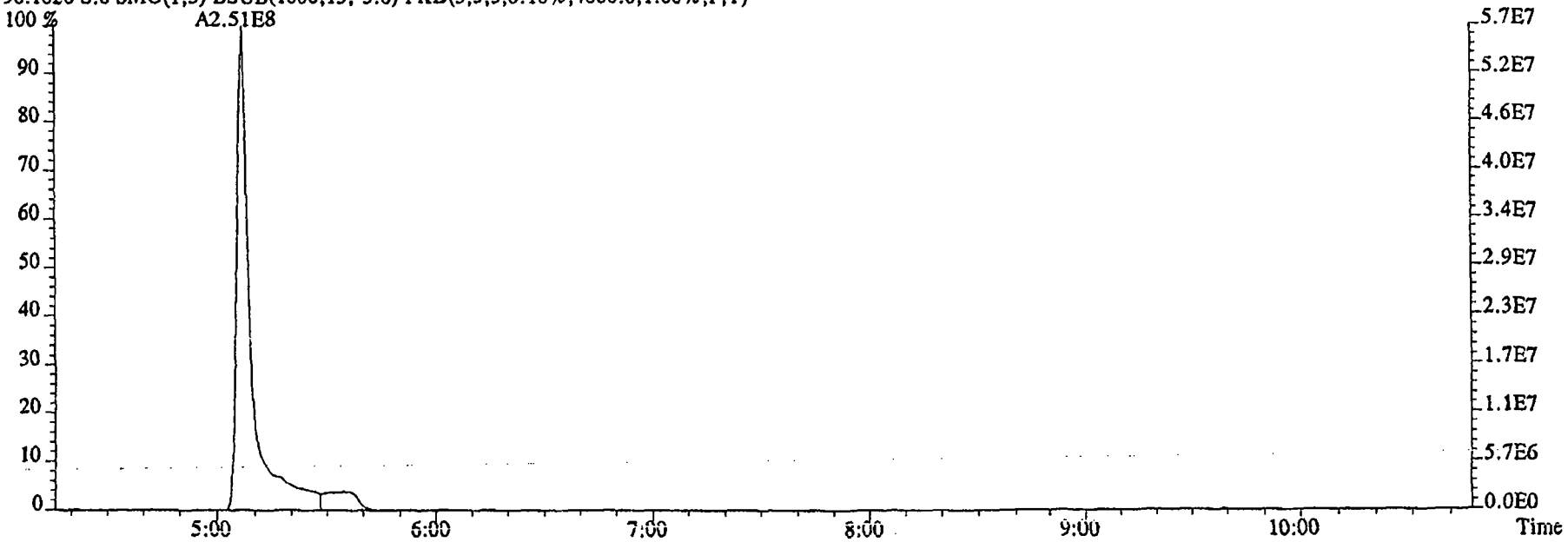
111.9936 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



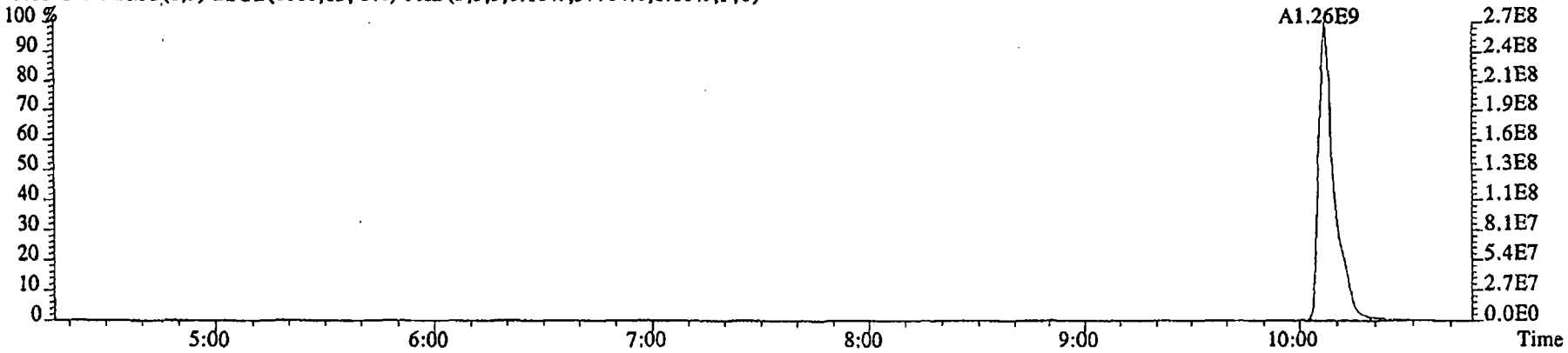
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
88.0524 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11488.0,1.00%,F,T)



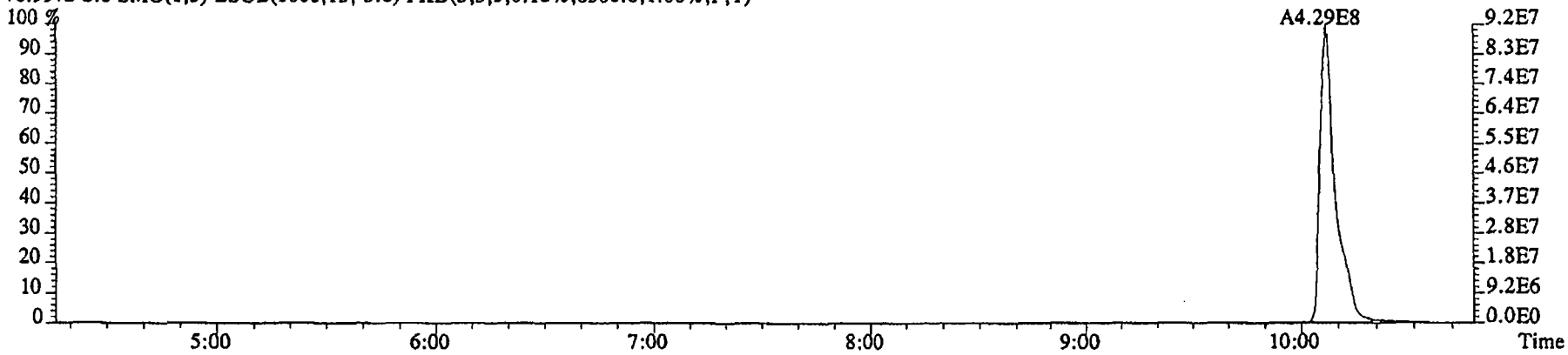
96.1026 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4680.0,1.00%,F,T)



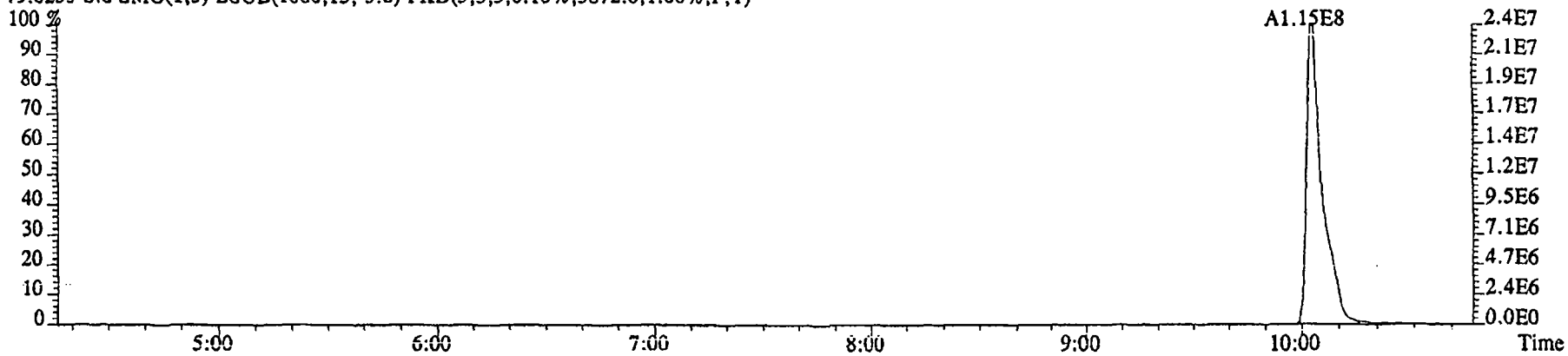
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
75.0002 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57764.0,1.00%,F,T)



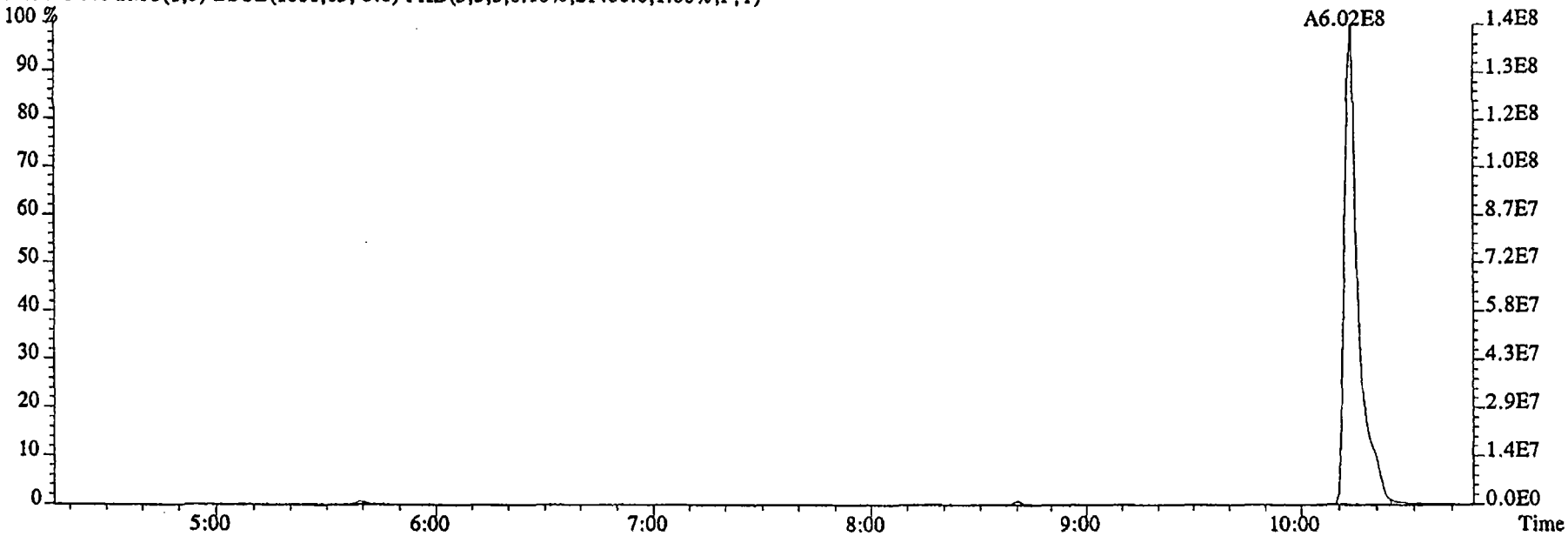
76.9972 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8300.0,1.00%,F,T)



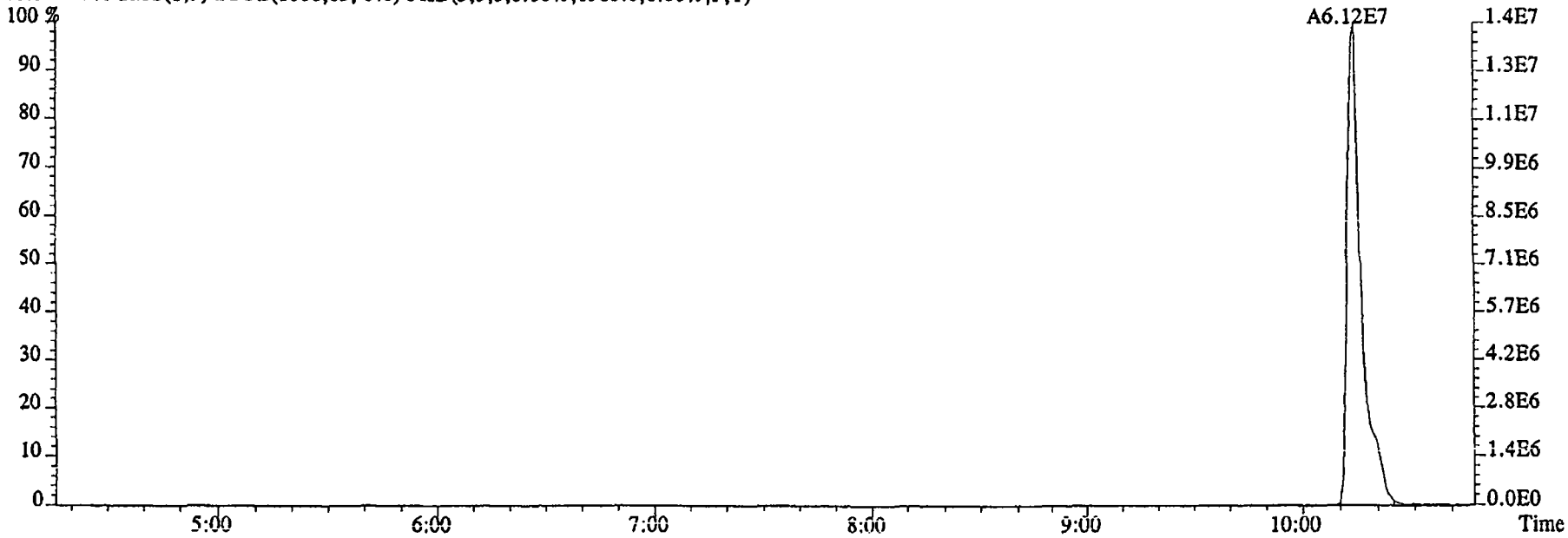
79.0253 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3872.0,1.00%,F,T)



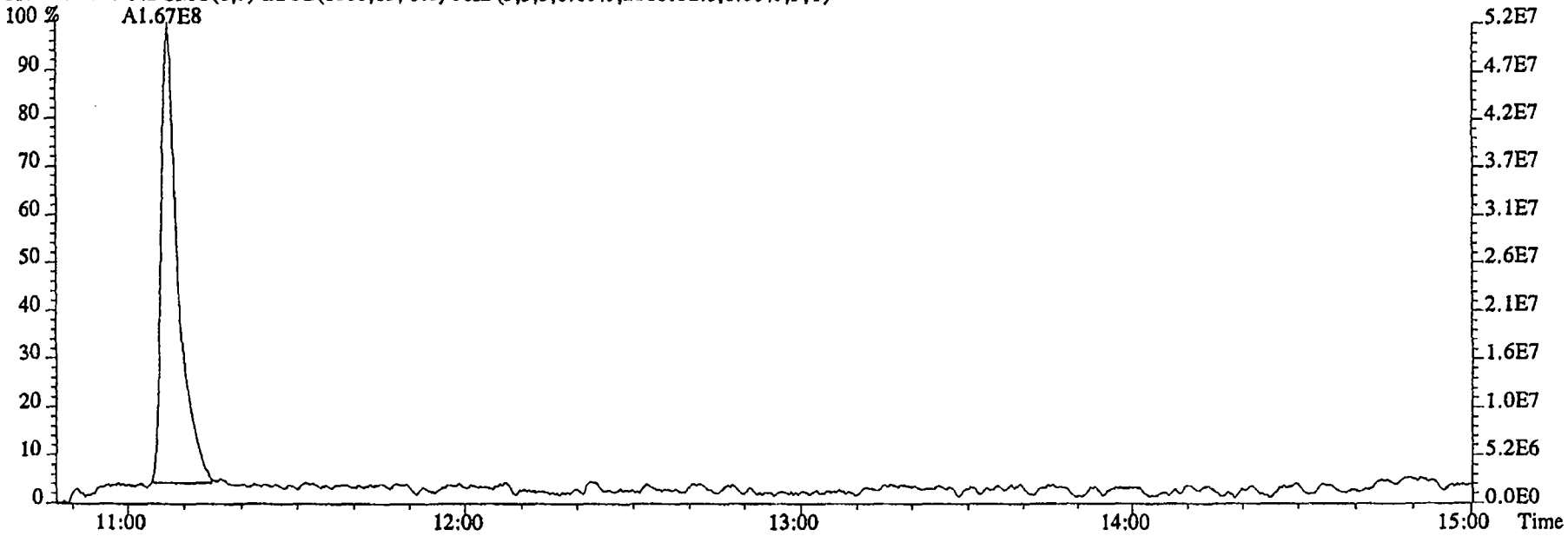
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
74.0480 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21400.0,1.00%,F,T)



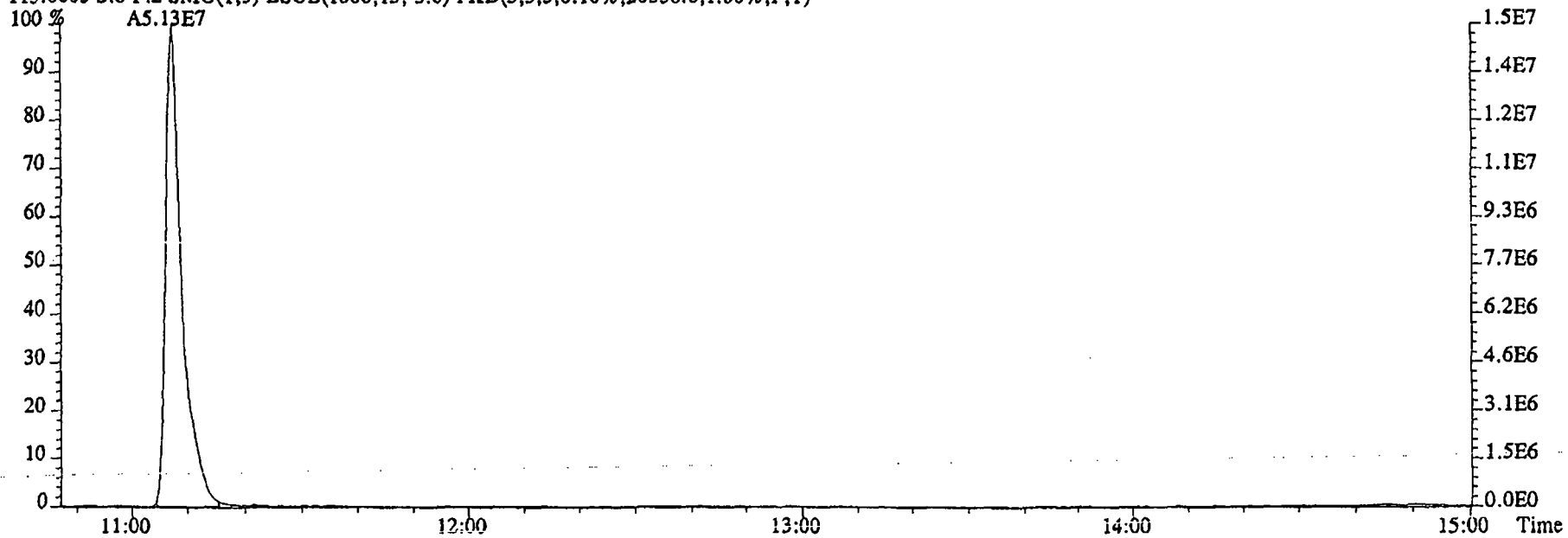
80.0857 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1960.0,1.00%,F,T)



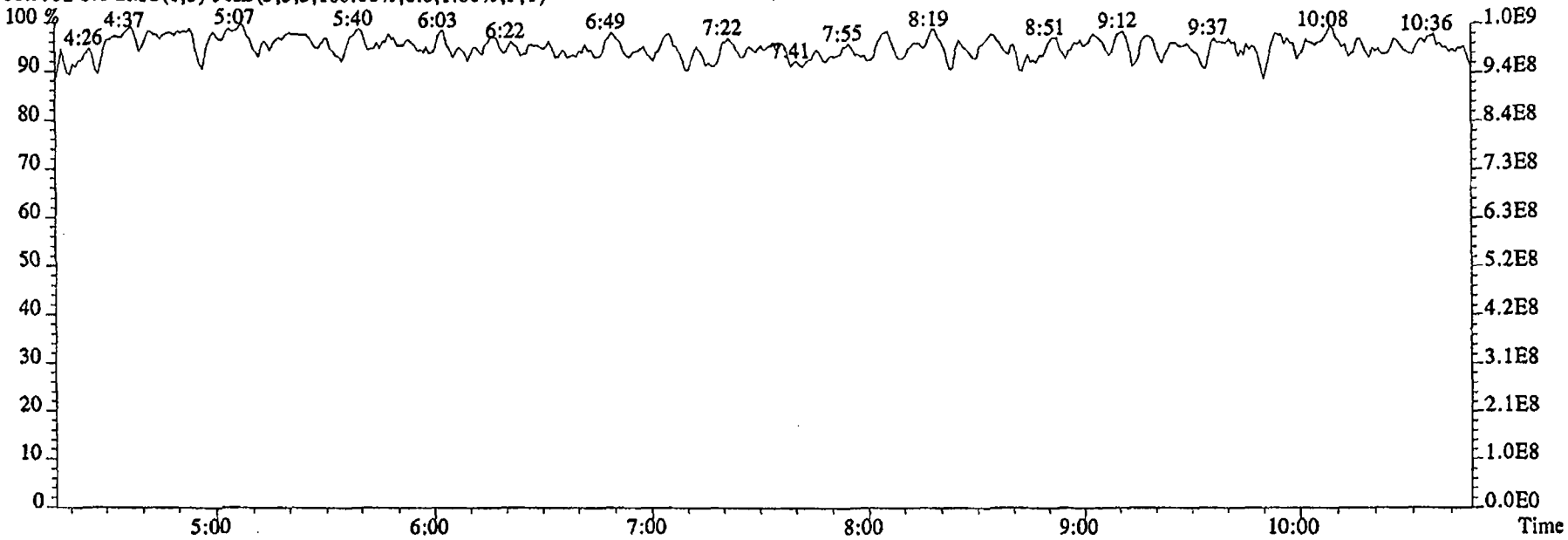
File:09DE045SP #1-590 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
113.0032 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2086852.0,1.00%,F,T)



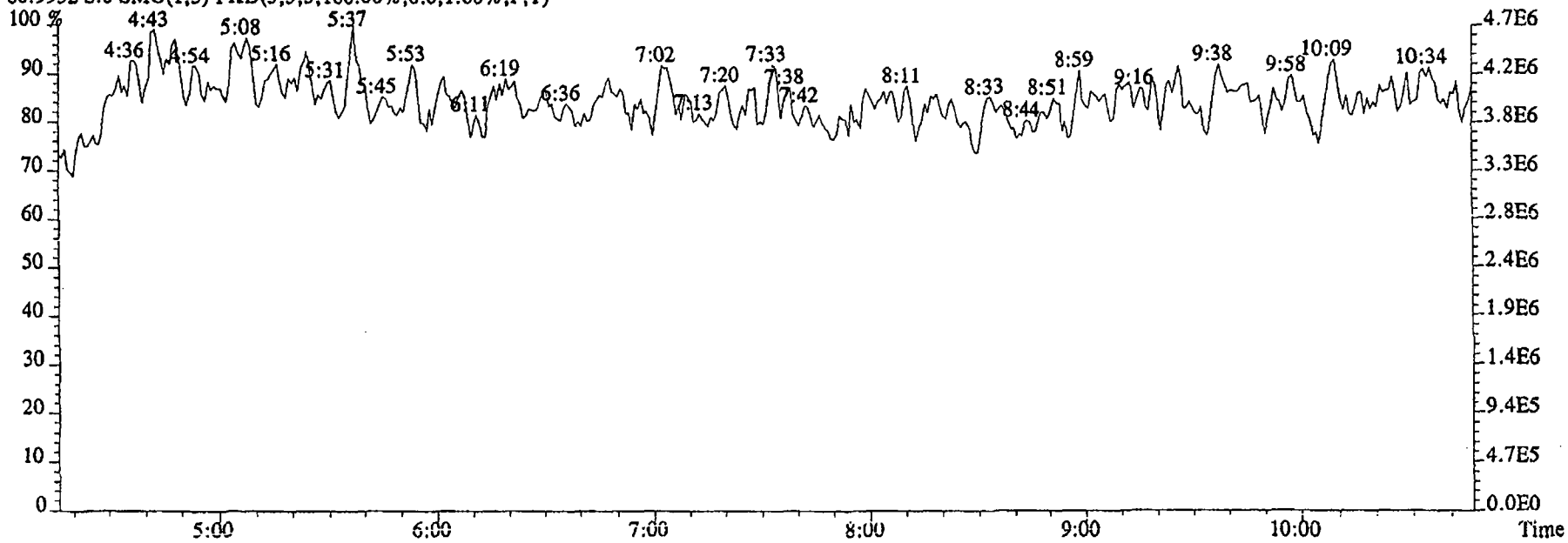
115.0003 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20336.0,1.00%,F,T)



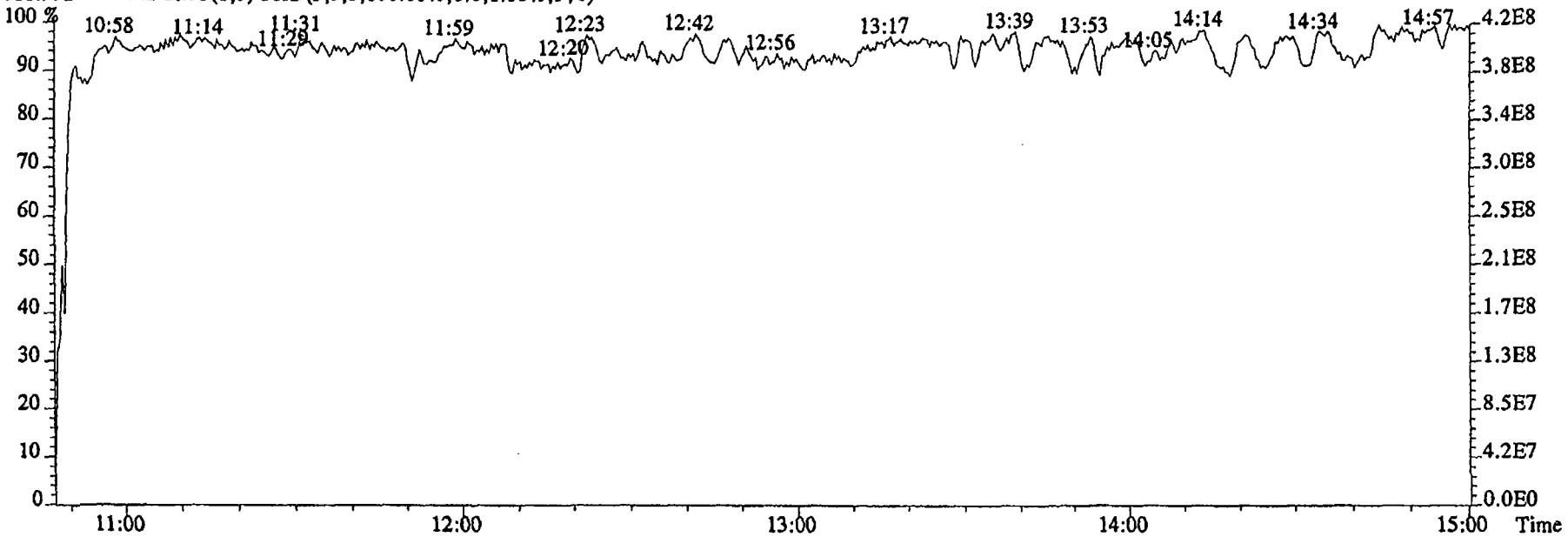
File:09DE045SP #1-481 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
68.9952 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



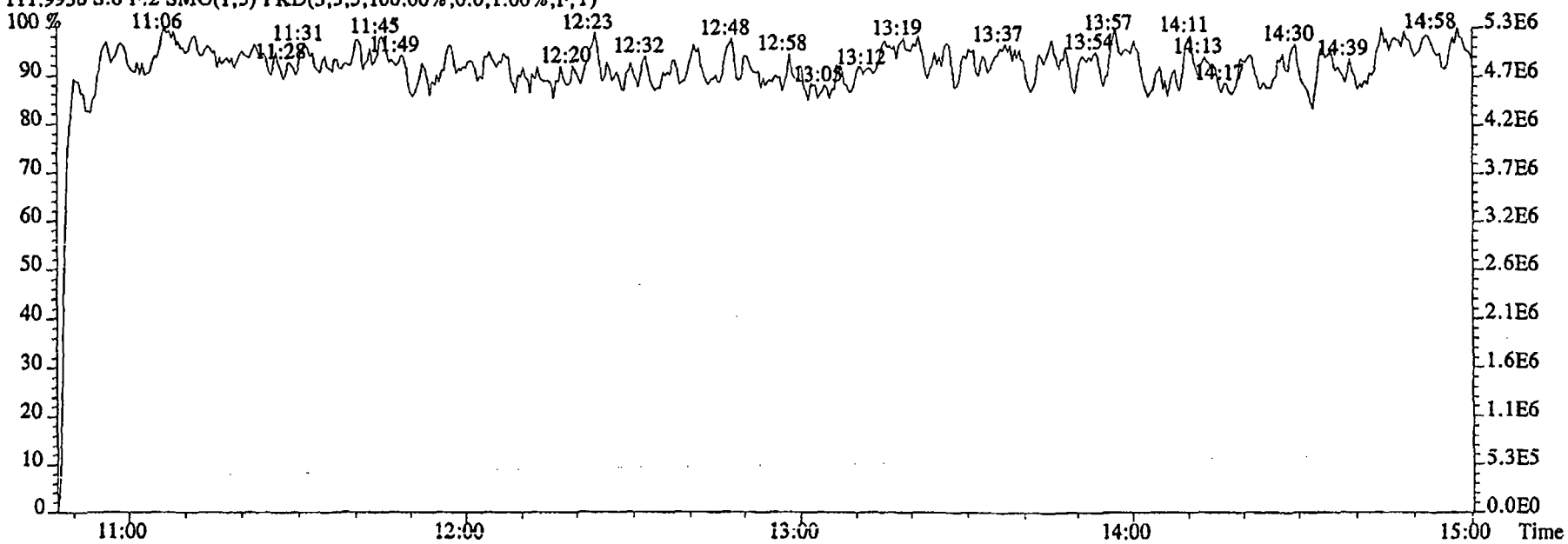
80.9952 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:09DE045SP #1-590 Acq: 9-DEC-2004 19:54:02 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1209E :CS5 2350-68E Exp:NDMAVOA
118.9920 S:6 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:6 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log Copies and Checklists

DCS is only required when a client requests one or a MS/SD is requested and limited sample size is available.

G4L070405

6A

Please Circle Extraction Type if used:
Soxhlet / Soxhtherm / DI TCLP

	Ext. 1	Ext. 2
Extraction time on:		
Extraction time off:		

Semivolatiles by HRGC/HRMS (1625 Modified)

Sample #	Suff	Sugg. Sample Size	Actual Sample Size	613 Extraction Init/Date	* Final Volume Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date
MB		1000mL	1000mL	12/9/04							
LCS											
DCS											
1			934.0								
2			993.6								
3			979.0								
4			989.7								
5			980.0								
6			980.1								

All Samples I.S. ID Added Vol./Conc.	100ul 2416-35	By:		Witness:	NDA	Date:	12/9/04
LCS/DCS/MS/SD N.S. ID Added Vol./Conc.	100ul 2350-67	By:		Witness:	NDA	Date:	12/9/04
All Samples CRS/Surr ID Added Vol./Conc.		By:		Witness:		Date:	
All Samples R.S. ID Added Vol./Conc.	200ul 2350-637 12-8-04	By:	DDH	Witness:		Date:	DEC 09 2004

Comments (Including Dilution at FV information):

QC Lot ID: SAME
Batch: 4344214

Extraction Solvents Used:	Solvent Lot #:
DCM	
H_2O	

Associated Samples:	Batch:	Method:
G4L070386	SAME	SAME
G4L080192		

*Note: Final Volume column is used when the analyst who performed the addition of the Recovery Standard is different than the individual who concentrated the sample to the final volume. Also, if the final volume is different than the volume of Recovery Standard added, please denote in this column as well.

STL Sacramento
Data Checklist
High Resolution and Low Resolution Analyses

SEVERN TRENT SERVICES

Lot ID #: G4L070405 Method ID: Semivolatiles by HRGC/HRMS (1625 Modified)

Sample # 1 - 6

(For Internal COC requests only)

Date Delivered to Inst.: _____ Delivered By: _____ Delivered To: _____

	~~DB-5~~ SP-2331	DB-225
Data Analyst:	cl	
Date initiated:	12-20-04	
Reviewer:	JW	NA
Date reviewed:	12/21/04	

QA/QC verification:	Initiated ~~DB-5~~ SP-2331	Reviewed ~~DB-5~~ SP-2331	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓	NA	NA
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓ (1)	✓		
-Ion ratios within + 15% of theoretical values?	NA	NA		
-Other QC (Dup,MS,SD) within specs?**	NA	NA		

Sample Analysis:	Initiated ~~DB-5~~ SP-2331	Reviewed ~~DB-5~~ SP-2331	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓	NA	NA
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify: QL = varies	✓	✓		
-DL's below TDL / LCL (please circle)? LCL	✓	✓		
-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		
-Have dilution calculations been verified?	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)

(1) see NCM# 07-14272

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
CARB 428:	40-120%***	50%
CARB 429:	50-150%***	50%
PCBs:	25-150%***	50%
DBD/DBF	20-150%***	
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/09/04
Time: 10:44:19

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

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

Extractionist: _____

Concentrationist: _____

QC BATCH: 4344214

PREP DATE: 12/09/04 6:00
COMP DATE: 12/09/04 20:00

Reviewer/Date: _____ / 0/00/00

Semivolatiles by HRGC/HRMS (1625 Modified)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJT	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/10/04	12/28/04	G4L070386-001 **G0GPH-1-AA**		09	6A	WATER	**880.5mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-001 **G0GT8-1-AC**	D	09	6A	WATER	**934.0mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-002 **G0GT9-1-AC**	D	09	6A	WATER	**993.6mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-003 **G0GVA-1-AC**	D	09	6A	WATER	**979.0mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-004 **G0GVC-1-AC**	D	09	6A	WATER	**989.7mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-005 **G0GVD-1-AC**	D	09	6A	WATER	**980.0mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	12/27/04	G4L070405-006 **G0GVE-1-AC**	D	09	6A	WATER	**980.1mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/09/04
Time: 10:44:19

QC BATCH: 4344214

PREP DATE: 12/09/04 6:00
COMP DATE: 12/09/04 20:00

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
12/13/04	12/22/04	G4L080192-001 **G0HP5-1-AA**		09	6A	WATER	**984.3mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	0/00/00	G4L090000-214 **G0LOH-1-AAB**		09	6A	WATER	**1000mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2416-35
COMMENTS:															
12/13/04	0/00/00	G4L090000-214 **G0LOH-1-ACC**		09	6A	WATER	**1000mL** 20.00uL	NA	NA	NA	DCM	120.0		.0	100UL 2350-67 100UL 2416-35
COMMENTS:															

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

NUMBER OF WORK ORDERS IN BATCH: 10

WATER, 410.4, Demand, Chemical Oxygen

CH2M Hill Inc

Client Sample ID: OC2-MW4A-W-0-92

General Chemistry

Lot-Sample #...: G4L070405-001 **Work Order #...:** G0GT8 **Matrix.....:** WATER
Date Sampled...: 12/06/04 **Date Received..:** 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

MDL.....: 3.1

CH2M Hill Inc

Client Sample ID: OC2-MW4B-W-0-93

General Chemistry

Lot-Sample #...: G4L070405-002 Work Order #...: G0GT9 Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	5.8 B,J	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

MDL.....: 3.1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

CH2M Hill Inc

Client Sample ID: OC2-MW4B-W-1-94

General Chemistry

Lot-Sample #...: G4L070405-003 Work Order #...: G0GVA Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	8.3 B,J	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

MDL.....: 3.1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

CH2M Hill Inc

Client Sample ID: OC2-MW4C-W-0-95

General Chemistry

Lot-Sample #...: G4L070405-004 Work Order #...: G0GVC Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	4.2 B,J	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

MDL.....: 3.1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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

CH2M Hill Inc

Client Sample ID: OC2-MW5A-W-0-97

General Chemistry

Lot-Sample #...: G4L070405-006 **Work Order #...:** G0GVE **Matrix.....:** WATER
Date Sampled...: 12/06/04 **Date Received..:** 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

MDL.....: 3.1

QC DATA ASSOCIATION SUMMARY

G4L070405

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 410.4		4349279	4349172
002	WATER	MCAWW 410.4		4349279	4349172
003	WATER	MCAWW 410.4		4349279	4349172
004	WATER	MCAWW 410.4		4349279	4349172
006	WATER	MCAWW 410.4		4349279	4349172

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G4L070405 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: G002T1AA		MB Lot-Sample #:	G4L140000-279	
	5.2 B	10.0	mg/L	MCAWW 410.4	12/14/04	4349279

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4L070405 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: G002T1AC	LCS Lot-Sample#: G4L140000-279		
	109	(85 - 115)	MCAWW 410.4	12/14/04	4349279

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4L070405 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			Work Order #: G002T1AC		LCS Lot-Sample#: G4L140000-279		
	49.6	53.8	mg/L	109	MCAWW 410.4	12/14/04	4349279

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4L070405 **Matrix.....:** WATER
Date Sampled...: 12/06/04 **Date Received..:** 12/07/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: G0GT81AD-MS/G0GT81AE-MSD				MS Lot-Sample #: G4L070405-001	
	99	(75 - 125)			MCAWW 410.4	12/14/04	4349279
	100	(75 - 125)	1.2	(0-20)	MCAWW 410.4	12/14/04	4349279

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4L070405 **Matrix.....:** WATER
Date Sampled...: 12/06/04 **Date Received..:** 12/07/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#: G0GT81AD-MS/G0GT81AE-MSD				MS Lot-Sample #: G4L070405-001		
	ND	50.0	49.5	mg/L	99		MCAWW 410.4	12/14/04	4349279
	ND	50.0	50.1	mg/L	100	1.2	MCAWW 410.4	12/14/04	4349279

NOTE(S):

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

Manual Colorimetric Analyses

Hexavalent Chromium
COD
Sulfide
T-Phosphorous

STL Sacramento

LEVEL 1&2 REVIEW CHECKLIST
GENERAL CHEMISTRY

LAB NUMBERS: G4L070405; G4L080479; G4L090480; G4L100385

ANALYSIS: COD (low) DATE: 12/14/04 ANALYST: Francis

LEVEL 1 RUN REVIEW:

	YES	NO	NA
1. Samples are properly preserved and verified	✓		
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)	✓		
3. Calibration criteria met	✓		
4. Calibration verifications and second source reference are in control	✓		
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)	✓		
6. Calculations have been checked	✓		
7. QAS +/or QAPP was consulted and followed for client specifics	✓		
8. Standard Tracking # noted on benchsheet +/or runlog	✓		
9. Manual integration performed, documented and approved			✓

LEVEL 1 DATA REVIEW:

	YES	NO	NA
1. Benchsheet complete	✓		
2. QAS +/or QAPP consulted and followed for client specifics for data entry	✓		
3. Data entered properly	✓		
4. Copy of prep sheet and prep checklist attached to run			✓
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.			✓

Completed By & Date: Francis 12/15/04

LEVEL 2 REVIEW:

	YES	NO	NA
1. Level 1 checklist complete and verified	X		
2. Deviations, Anomalies, Holding times checked and approved			X
3. Reprep/Reanalysis documented and chemist notified			X
4. Client specific criteria met	X		
5. Data entry checked and released in Quantims	X		
6. Indication on benchsheet on review and release (dated & signed)	X		
7. Manual integration reviewed, approved, and properly documented			X

Completed By & Date: BEV 12/17/04

Comments:

QA-159 NEK 7/00

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 12/14/04
Time: 15:20:08

STL Sacramento

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: VO Demand, Chemical Oxygen (410.4)
QC BATCH #: 4349279
PREP DATE: 12/14/04 10:30
COMP DATE: 12/14/04 12:30
USER: FRANCISF

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

MS# 434 9172

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
G0GT8-1-AA	G-4L070405-001	XX I 21 VO 01	Y-D		OC2-MW4A-W-0-92
G0GT8-1-AE	G-4L070405-001-D	XX I 21 VO 01	Y-D		OC2-MW4A-W-0-92
G0GT8-1-AD	G-4L070405-001-S	XX I 21 VO 01	Y-D		OC2-MW4A-W-0-92
G0GT9-1-AA	G-4L070405-002	XX I 21 VO 01	Y-D		OC2-MW4B-W-0-93
G0GVA-1-AA	G-4L070405-003	XX I 21 VO 01	Y-D		OC2-MW4B-W-1-94
G0GVC-1-AA	G-4L070405-004	XX I 21 VO 01	Y-D		OC2-MW4C-W-0-95
G0GVE-1-AA	G-4L070405-006	XX I 21 VO 01	Y-D		OC2-MW5A-W-0-97
G0K68-1-AA	G-4L080479-001	XX I 21 VO 01	Y-D		OC2-MW1A-W-0-98
G0K69-1-AA	G-4L080479-002	XX I 21 VO 01	Y-D		OC2-MW1B-W-0-99
G0K7A-1-AA	G-4L080479-003	XX I 21 VO 01	Y-D		OC2-MW6-W-0-100
G0K7D-1-AA	G-4L080479-004	XX I 21 VO 01	Y-D		OC2-MW9B-W-0-101
G0K7E-1-AA	G-4L080479-005	XX I 21 VO 01	Y-D		OC2-MW7A-W-0-102
G0K7F-1-AA	G-4L080479-006	XX I 21 VO 01	Y-D		OC2-MW7A-W-1-103
G0PC2-1-AA	G-4L090480-001	XX I 21 VO 01	Y-D		OC2-MW10A-W-0-104
G0PC4-1-AA	G-4L090480-002	XX I 21 VO 01	Y-D		OC2-MW3A-W-0-105
G0PC5-1-AA	G-4L090480-003	XX I 21 VO 01	Y-D		OC2-MW2A-W-0-106
G0R1N-1-AA	G-4L100385-001	XX I 21 VO 01	Y-D		OC2-MW8A-W-0-107
G0R1W-1-AA	G-4L100385-002	XX I 21 VO 01	Y-D		OC2-MW8B-W-0-108
G0R10-1-AA	G-4L100385-003	XX I 21 VO 01	Y-D		OC2-MW8C-W-0-109

RQCC50

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 12/14/04
Time: 15:20:08

STL Sacramento

QC BATCH #: **4349279**
PREP DATE: 12/14/04 10:30
COMP DATE: 12/14/04 12:30
USER: FRANCISF

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
G0R12-1-AA	G-4L100385-004	XX I 21 VO 01	Y-D	_____	OC2-MW8D-W-0-110
G002T-1-AA	G-4L140000-279-B	XX I 21 VO 01		_____	INTRA-LAB BLANK
G002T-1-AC	G-4L140000-279-C	XX I 21 VO 01		_____	INTRA-LAB CHECK
G002T-1-AD	G-4L140000-279-L	XX I 21 VO 01		_____	INTRA-LAB CHECK

Control Limits
(75-125)
(75-125)
(85-115)
(85-115)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 4349279

Date 12/15/2004
Time 7:58:23

Method Code: VO Demand, Chemical Oxygen (410.4)
Analyst: Filomena Francis

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
G0GT8-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GT9-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVA-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVC-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVE-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K68-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K69-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7A-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7D-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7E-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7F-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC2-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC4-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC5-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R1N-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R1W-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R10-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R12-1-AA	17.65	mg/L	10	12/14/04	.00	N		17.6	10.0	1.00
G002T-1-AA	ND	mg/L	10	12/14/04	.00			ND	10	1.00

Notes:

LCS - LCSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
G002T-1-AC			49.6	53.8288	54.4526	108.52	109.78	1.15	12/14/04	1.00

Notes:

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Method Code:VO Demand, Chemical Oxygen (410.4)
Analyst:Filomena Francis
MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
G0GT8-1-AD		ND	50	49.4626	50.0863	98.92	100.17	1.25	12/14/04	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL Sacramento

CURVE CALCULATION BENCHSHEET

(SOP # SAC-WC-0040)

ANALYST	FRANCISF	ANALYSIS DATE	12/14/04	METHOD NO.	EPA 410.4	FILE	121404A
REVIEWED BY	BEV	REVIEW DATE	12/17/04	INSTRUMENT ID:	SP2		
BATCH NO.	4349279	MS RUN NO.	4349172	ICV SOURCE:	2392-WC-59-4	CCV SOURCE:	2392-WC-59-6

	Lab ID	Time	True Conc. mg/L	Background Absorbance	Sample Aliquot gram	Sample Aliquot mL	Extract Volume mL	Dilution	Absorbance	Raw Result	COD (Low) mg/L	mg/kg	Recovery	Check
1	Std0	15:26	0						0.493	-2.62080	Intercept = 1.5113E+02			
2	Std1	15:26	10						0.442	13.28490	Slope = -3.1188E+02			
3	Std2	15:25	50						0.321	51.02195				
4	Std3	15:25	100						0.173	97.17966				
5	Std4	15:25	150						0	151.13429	r = -0.999120			
6														
7											Linear Not Forced Weighting = 1			
8											Absorbance corrected for background absorbance			
9														
10	[LCS/ICV:G4L070	15:26	49.6			2	2	1	0.312	53.82884	53.8288		109%	
11	[BLK/ICB:G4L070	15:27				2	2	1	0.468	5.17611	5.1761			< RL
12	LCS-DUP	15:27	49.6			2	2	1	0.31	54.45259	54.4526		110%	
13														
14	G0GT8	15:28				2	2	1	0.477	2.36923	2.3692			< RL
15	G0GT8-S	15:29	50			2	2	1	0.326	49.46257	49.4626		99%	
16	G0GT8-D	15:29	50			2	2	1	0.324	50.08632	50.0863		100%	
17	G0GT9	15:29				2	2	1	0.466	5.79987	5.7999			< RL
18	G0GVA	15:30				2	2	1	0.458	8.29488	8.2949			< RL
19	G0GVC	15:30				2	2	1	0.471	4.24048	4.2405			< RL
20	G0GVE	15:30				2	2	1	0.477	2.36923	2.3692			< RL
21	G0K68	15:31				2	2	1	0.468	5.17611	5.1761			< RL
22	CCV	15:32	50			2	2	1	0.313	53.51696	53.5170		107%	
23	CCB	15:32				2	2	1	0.471	4.24048	4.2405			< RL
24	G0K69	15:32				2	2	1	0.472	3.92861	3.9286			< RL
25	G0K7A	15:32				2	2	1	0.477	2.36923	2.3692			< RL
26	G0K7D	15:33				2	2	1	0.475	2.99298	2.9930			< RL
27	G0K7E	15:33				2	2	1	0.471	4.24048	4.2405			< RL
28	G0K7F	15:33				2	2	1	0.471	4.24048	4.2405			< RL
29	G0PC2	15:34				2	2	1	0.47	4.55236	4.5524			< RL
30	G0PC4	15:34				2	2	1	0.471	4.24048	4.2405			< RL
31	G0PC5	15:34				2	2	1	0.459	7.98300	7.9830			< RL
32	G0R1N	15:35				2	2	1	0.471	4.24048	4.2405			< RL
33	G0R1W	15:35				2	2	1	0.46	7.67112	7.6711			< RL
34	CCV	15:35	50			2	2	1	0.322	50.71007	50.7101		101%	
35	CCB	15:35				2	2	1	0.471	4.24048	4.2405			< RL

12/16/04

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36	G0R10	15:36				2	2	1	0.473	3.61673	3.6167				< RL
37	G0R12	15:36				2	2	1	0.428	17.65117	17.6512				
38	CCV	15:37	50			2	2	1	0.326	49.46257	49.4626		99%		
39	CCB	15:37				2	2	1	0.474	3.30485	3.3049				< RL