TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

December 20, 2010

TestAmerica Project Number: G0L080454
PO/Contract: 2027.07

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

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on December 8, 2010. These samples are associated with your Tronox Henderson Air Monitoring project.

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

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

Sincerely,

DAVID R. ALLTUCKER
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G0L080454

Case Narrative

TestAmerica West Sacramento Project Number G0L080454

AIR, TO-9, Dioxins/Furans
Sample(s): 2, 5, 8, 11
Several analytes in each sample and the associated method blank have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

Sample(s): 5, 11
The bracketing continuing calibration standard [ST1214G] has an internal standard (IS) with the percent difference value above the method recommended criteria of 30% to 35% deviation from the initial calibration curve. As all associated samples have internal standard recoveries within recovery limits, no further corrective action was taken.

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on December 15, 2010.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G0L080454

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MA1XW	1	UW-12032010B	12/3/2010 05:32 PM	12/8/2010 09:00 AM
MA1X3	2	UW-12032010B	12/3/2010 05:28 PM	12/8/2010 09:00 AM
MA1X4	3	UW-12032010B	12/3/2010 05:29 PM	12/8/2010 09:00 AM
MA1X8	4	DW-12032010B	12/3/2010 05:53 PM	12/8/2010 09:00 AM
MA11D	5	DW-12032010B	12/3/2010 05:50 PM	12/8/2010 09:00 AM
MA11M	6	DW-12032010B	12/3/2010 05:51 PM	12/8/2010 09:00 AM
MA11P	7	UW-12062010B	12/6/2010 05:41 PM	12/8/2010 09:00 AM
MA112	8	UW-12062010B	12/6/2010 05:33 PM	12/8/2010 09:00 AM
MA12A	9	UW-12062010B	12/6/2010 05:35 PM	12/8/2010 09:00 AM
MA12P	10	DW-12062010B	12/6/2010 06:14 PM	12/8/2010 09:00 AM
MA12V	11	DW-12062010B	12/6/2010 06:05 PM	12/8/2010 09:00 AM
MA12X	12	DW-12062010B	12/6/2010 06:07 PM	12/8/2010 09:00 AM

Notes(s):

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
Cooler # 1 of 1

COC # 2027.07.0020
Total # of Samples: 12
Event Complete?

Required Ship to Lab:

Lab Name:	Test America Laboratories Inc
Address:	880 Riverside Parkway
	West Sacramento, CA 95605
Lab PM:	David Alltucker
Phone/FaH:	(916) 373-5600
Lab PM email	David.Alltucker@testamericainc.com
Applicable Lab Quote #:	

Required Project Information:

Site ID #:102	TRONOX LLC. HENDERSON
Project #	2027.07
Site Address	560 W Lake Mead Pkwy
City	Henderson
State, Zip	NV, 89015
Site PM Name	Ted Splitter
Phone/FaH:	(510) 435-4609
Site PM Email:	Ted.Splitter@ngem.com

Required Invoice Information:

Send Invoice to:	Susan Crowley Tronox LLC.
Address:	PO Box 55
City/State.	Henderson, NV 89009
Phone #:	(949) 260-9293
PO #	
Send EDD to	Frank.Hagar@ngem.com
CC Hardcopy report to	PDF Electronic Version Only -- FTP Upload
CC Hardcopy report to	See Additional Comments Below

Regular	
Rush	
5 day	
Mark One	

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m^3)	TO-9A/Dioxins, Furans	TO-13A/8270C/HCB	TSP	6020/As/Mn/ICPMS
	UW-12032010B		AA			12/3/2010	5:32 PM	1	920.05 (HOLD)			H	H
	UW-12032010B		AA			12/3/2010	5:28 PM	1	584.46	X			
	UW-12032010B		AA			12/3/2010	5:29 PM	1	627.57 (HOLD)		H		
	DW-12032010B		AA			12/3/2010	5:53 PM	1	894.72 (HOLD)			H	H
	DW-12032010B		AA			12/3/2010	5:50 PM	1	607.78	X			
	DW-12032010B		AA			12/3/2010	5:51 PM	1	601.03 (HOLD)		H		
	UW-12062010B		AA			12/6/2010	5:41 PM	1	955.26			X	X
	UW-12062010B		AA			12/6/2010	5:33 PM	1	626.8	X			
	UW-12062010B		AA			12/6/2010	5:35 PM	1	617.87		X		
	DW-12062010B		AA			12/6/2010	6:14 PM	1	899.14			X	X
	DW-12062010B		AA			12/6/2010	6:05 PM	1	638.46	X			
	DW-12062010B		AA			12/6/2010	6:07 PM	1	632.5		X		

Additional Comments/Special Instructions:
3-5 DAY TURN AROUND: Please hold samples marked with an "H" until contacted by David Behnken.

Relinquished by	Date	Time	Received by	Date	Time	Temp in 0C	Samples on Ice?	Sample intact?	Trip Blank?
Ronda S. Bailey [signature]	12/7/10	1500	RECEIVED BY [signature] TALWSAC	080000	0915	3C	(Y)/N	(Y)/N	Y/(N)
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

PRINT Name of SAMPLER: Ronda Bailey
SIGNATURE of SAMPLER: [signature] DATE Signed: 12/7/10 1500
Time:

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT NORTHGATE ENV PM DA LOG # 68442

LOT# (QUANTIMS ID) G0L080454 QUOTE# 84087 LOCATION WHD, AC

Checked (✓)

DATE RECEIVED 08 Dec 10 TIME RECEIVED 0900 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) NO CS #

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

COC #(S) 2027.07, 0020 ☑

TEMPERATURE BLANK Observed: NO TB Corrected: NO TB

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3 Average 3 Corrected Average 3

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER ☑

Initials Date 08 Dec 10

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pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☑ N/A

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

Initials Date 08 Dec 10

Notes

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

testAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0L080454

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

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

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

AIR, TO-13, Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 009	**Work Order #....:**	MA12A1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/10/10	**Volume....:**	617.87
Prep Batch # ....:	0342383	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.016	0.0021	ug/m3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	63	60 - 120
2-Fluorobiphenyl	85	58 - 105
2-Fluorophenol	73	41 - 105
Nitrobenzene-d5	82	46 - 118
Phenol-d5	81	43 - 122
Terphenyl-d14	85	69 - 110
2,4,6-Tribromophenol	101	61 - 118

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 012	**Work Order #....:**	MA12X1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/10/10	**Volume....:**	632.5
Prep Batch # ....:	0342383	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	**0.011**	**J**	**0.016**	**0.0021**	**ug/m3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	62	60 - 120
2-Fluorobiphenyl	84	58 - 105
2-Fluorophenol	73	41 - 105
Nitrobenzene-d5	82	46 - 118
Phenol-d5	81	43 - 122
Terphenyl-d14	80	69 - 110
2,4,6-Tribromophenol	96	61 - 118

QUALIFIERS

J Estimated Result.

QC DATA ASSOCIATION SUMMARY

G0L080454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	AA	EPA-2 TO-9		0342379	
005	AA	EPA-2 TO-9		0342379	
007	AA	CFR50B APDX B		0344398	
	AA	SW846 6020		0344269	
008	AA	EPA-2 TO-9		0342379	
009	AA	EPA-2 TO-13		0342383	
010	AA	CFR50B APDX B		0344398	
	AA	SW846 6020		0344269	
011	AA	EPA-2 TO-9		0342379	
012	AA	EPA-2 TO-13		0342383	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L080000 - 383B	**Work Order #....:**	MA3AJ1AA	**Matrix....:**	AIR
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/10/10	**Volume....:**	0
Prep Batch # ....:	0342383	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	73	60 - 120
2-Fluorobiphenyl	79	58 - 105
2-Fluorophenol	71	41 - 105
Nitrobenzene-d5	78	46 - 118
Phenol-d5	77	43 - 122
Terphenyl-d14	86	69 - 110
2,4,6-Tribromophenol	97	61 - 118

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L080454	**Work Order # ...:**	MA3AJ1AC-LCS MA3AJ1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L080000 - 383				
Prep Date .....:	12/08/10	**Analysis Date ..:**	12/10/10		
Prep Batch # ...:	0342383				
Dilution Factor :	1				
Analyst ID.....:	Kenny Q. Truong	**Instrument ID..:**	5MH	**Method.....:**	EPA-2 TO-13
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Hexachlorobenzene	**100**	**88.5**	**ug**	**88**	**(70 - 110)**		
	100	**88.2**	**ug**	**88**	**(70 - 110)**	**0.37**	**(0 - 30)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	86	(58 - 105)
	83	(58 - 105)
2-Fluorophenol	76	(41 - 105)
	75	(41 - 105)
Nitrobenzene-d5	82	(46 - 118)
	83	(46 - 118)
Phenol-d5	82	(43 - 122)
	79	(43 - 122)
Terphenyl-d14	80	(69 - 110)
	82	(69 - 110)
2,4,6-Tribromophenol	100	(61 - 118)
	102	(61 - 118)

Notes:

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

Bold print denotes control parameters

AIR, TO-9, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: UW-12032010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 002	**Work Order #....:**	MA1X31AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	584.46
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	**1.8**	**J Q**	**100**	**0.1**	**0.00031**
1,2,3,6,7,8-HxCDD	**3.9**	**J Q**	**100**	**0.1**	**0.00067**
1,2,3,7,8,9-HxCDD	**4.0**	**J Q**	**100**	**0.1**	**0.00068**
Total HxCDD	**35**		**100**		
1,2,3,4,6,7,8-HpCDD	**44**	**J**	**100**	**0.01**	**0.00075**
Total HpCDD	**98**		**100**		
OCDD	**160**		**200**	**0.0003**	**0.000082**
2,3,7,8-TCDF	**12**	**J**	**20**	**0.1**	**0.0021**
Total TCDF	**27**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**13**		**100**		
1,2,3,4,7,8-HxCDF	**17**	**J**	**100**	**0.1**	**0.0029**
1,2,3,6,7,8-HxCDF	**11**	**J**	**100**	**0.1**	**0.0019**
2,3,4,6,7,8-HxCDF	**3.2**	**J Q**	**100**	**0.1**	**0.00055**
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**57**		**100**		
1,2,3,4,6,7,8-HpCDF	**37**	**J**	**100**	**0.01**	**0.00063**
1,2,3,4,7,8,9-HpCDF	**11**	**J Q**	**100**	**0.01**	**0.00019**
Total HpCDF	**66**		**100**		
OCDF	**100**	**J**	**200**	**0.0003**	**0.000051**
Total TEQ Concentration					**0.011**

Northgate Environmental Management, Inc.

Sample ID: UW-12032010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 002	**Work Order #....:**	MA1X31AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	584.46
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 120
13C-OCDD	90	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	86	50 - 120
13C-1,2,3,4,7,8-HxCDF	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	98	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	100	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-12032010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 002	**Work Order #....:**	MA1X31AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	584.46
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.034	0.0033	pg/m3
Total TCDD	ND		0.034	0.0033	pg/m3
1,2,3,7,8-PeCDD	ND		0.17	0.0053	pg/m3
Total PeCDD	ND		0.17	0.0053	pg/m3
1,2,3,4,7,8-HxCDD	**0.0032**	**J Q**	**0.17**	**0.0024**	**pg/m3**
1,2,3,6,7,8-HxCDD	**0.0066**	**J Q**	**0.17**	**0.0021**	**pg/m3**
1,2,3,7,8,9-HxCDD	**0.0069**	**J Q**	**0.17**	**0.0022**	**pg/m3**
Total HxCDD	**0.060**		**0.17**	**0.0022**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.076**	**J**	**0.17**	**0.0024**	**pg/m3**
Total HpCDD	**0.17**		**0.17**	**0.0024**	**pg/m3**
OCDD	**0.28**		**0.34**	**0.0060**	**pg/m3**
2,3,7,8-TCDF	**0.021**	**J**	**0.034**	**0.0026**	**pg/m3**
Total TCDF	**0.046**		**0.034**	**0.0026**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.17	0.0050	pg/m3
2,3,4,7,8-PeCDF	ND		0.17	0.0051	pg/m3
Total PeCDF	**0.023**		**0.17**	**0.0050**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.030**	**J**	**0.17**	**0.0033**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.019**	**J**	**0.17**	**0.0029**	**pg/m3**
2,3,4,6,7,8-HxCDF	**0.0054**	**J Q**	**0.17**	**0.0031**	**pg/m3**
1,2,3,7,8,9-HxCDF	ND		0.17	0.0034	pg/m3
Total HxCDF	**0.098**		**0.17**	**0.0031**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.063**	**J**	**0.17**	**0.0017**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.019**	**J Q**	**0.17**	**0.0021**	**pg/m3**
Total HpCDF	**0.11**		**0.17**	**0.0019**	**pg/m3**
OCDF	**0.17**	**J**	**0.34**	**0.0033**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 120
13C-OCDD	90	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	86	50 - 120
13C-1,2,3,4,7,8-HxCDF	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	98	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	100	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-12032010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 002	**Work Order #....:**	MA1X31AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	584.46
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: DW-12032010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 005	**Work Order #....:**	MA11D1AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	607.78
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	**7.9**		**20**		
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	**2.1**	**J Q**	**100**	**0.1**	**0.00035**
1,2,3,6,7,8-HxCDD	**4.1**	**J**	**100**	**0.1**	**0.00067**
1,2,3,7,8,9-HxCDD	**5.2**	**J Q**	**100**	**0.1**	**0.00086**
Total HxCDD	**37**		**100**		
1,2,3,4,6,7,8-HpCDD	**36**	**J**	**100**	**0.01**	**0.00059**
Total HpCDD	**82**		**100**		
OCDD	**110**	**J**	**200**	**0.0003**	**0.000054**
2,3,7,8-TCDF	**15**	**J CON**	**20**	**0.1**	**0.0025**
Total TCDF	**150**		**20**		
1,2,3,7,8-PeCDF	**20**	**J**	**100**	**0.03**	**0.00099**
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**120**		**100**		
1,2,3,4,7,8-HxCDF	**39**	**J**	**100**	**0.1**	**0.0064**
1,2,3,6,7,8-HxCDF	**28**	**J Q**	**100**	**0.1**	**0.0046**
2,3,4,6,7,8-HxCDF	**5.5**	**J**	**100**	**0.1**	**0.00090**
1,2,3,7,8,9-HxCDF	**4.1**	**J Q**	**100**	**0.1**	**0.00067**
Total HxCDF	**220**		**100**		
1,2,3,4,6,7,8-HpCDF	**120**		**100**	**0.01**	**0.0020**
1,2,3,4,7,8,9-HpCDF	**43**	**J**	**100**	**0.01**	**0.00071**
Total HpCDF	**210**		**100**		
OCDF	**280**		**200**	**0.0003**	**0.00014**
Total TEQ Concentration					**0.021**

Northgate Environmental Management, Inc.

Sample ID: DW-12032010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 005	**Work Order #....:**	MA11D1AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	607.78
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	86	50 - 120
13C-1,2,3,6,7,8-HxCDD	103	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	94	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	84	50 - 120
13C-1,2,3,4,7,8-HxCDF	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	96	40 - 120

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

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: DW-12032010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 005	**Work Order #....:**	MA11D1AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	607.78
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.033	0.0031	pg/m3
Total TCDD	**0.013**		**0.033**	**0.0031**	**pg/m3**
1,2,3,7,8-PeCDD	ND		0.16	0.0059	pg/m3
Total PeCDD	ND		0.16	0.0059	pg/m3
1,2,3,4,7,8-HxCDD	**0.0035**	**J Q**	**0.16**	**0.0025**	**pg/m3**
1,2,3,6,7,8-HxCDD	**0.0067**	**J**	**0.16**	**0.0021**	**pg/m3**
1,2,3,7,8,9-HxCDD	**0.0085**	**J Q**	**0.16**	**0.0023**	**pg/m3**
Total HxCDD	**0.061**		**0.16**	**0.0023**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.060**	**J**	**0.16**	**0.0030**	**pg/m3**
Total HpCDD	**0.13**		**0.16**	**0.0030**	**pg/m3**
OCDD	**0.18**	**J**	**0.33**	**0.0049**	**pg/m3**
2,3,7,8-TCDF	**0.025**	**J CON**	**0.033**	**0.0053**	**pg/m3**
Total TCDF	**0.24**		**0.033**	**0.0031**	**pg/m3**
1,2,3,7,8-PeCDF	**0.033**	**J**	**0.16**	**0.0054**	**pg/m3**
2,3,4,7,8-PeCDF	ND		0.16	0.0056	pg/m3
Total PeCDF	**0.19**		**0.16**	**0.0054**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.065**	**J**	**0.16**	**0.0036**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.045**	**J Q**	**0.16**	**0.0033**	**pg/m3**
2,3,4,6,7,8-HxCDF	**0.0090**	**J**	**0.16**	**0.0035**	**pg/m3**
1,2,3,7,8,9-HxCDF	**0.0067**	**J Q**	**0.16**	**0.0039**	**pg/m3**
Total HxCDF	**0.35**		**0.16**	**0.0035**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.19**		**0.16**	**0.0023**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.070**	**J**	**0.16**	**0.0028**	**pg/m3**
Total HpCDF	**0.35**		**0.16**	**0.0026**	**pg/m3**
OCDF	**0.47**		**0.33**	**0.0039**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	86	50 - 120
13C-1,2,3,6,7,8-HxCDD	103	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	94	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	84	50 - 120
13C-1,2,3,4,7,8-HxCDF	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	96	40 - 120

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

Northgate Environmental Management, Inc.

Sample ID: DW-12032010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 005	**Work Order #....:**	MA11D1AA	**Matrix....:**	AA
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	607.78
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 008	**Work Order #....:**	MA1121AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	626.8
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	**13**		**100**		
1,2,3,4,6,7,8-HpCDD	**27**	**J**	**100**	**0.01**	**0.00043**
Total HpCDD	**57**		**100**		
OCDD	**100**		**200**	**0.0003**	**0.000048**
2,3,7,8-TCDF	**8.1**	**J Q**	**20**	**0.1**	**0.0013**
Total TCDF	**47**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**12**		**100**		
1,2,3,4,7,8-HxCDF	**11**	**J**	**100**	**0.1**	**0.0018**
1,2,3,6,7,8-HxCDF	**5.4**	**J Q**	**100**	**0.1**	**0.00086**
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**32**		**100**		
1,2,3,4,6,7,8-HpCDF	**22**	**J**	**100**	**0.01**	**0.00035**
1,2,3,4,7,8,9-HpCDF	**6.5**	**J Q**	**100**	**0.01**	**0.00010**
Total HpCDF	**43**		**100**		
OCDF	**45**	**J**	**200**	**0.0003**	**0.000022**
Total TEQ Concentration					**0.0049**

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 008	**Work Order #....:**	MA1121AA	**Matrix.....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	626.8
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	94	40 - 120
13C-OCDD	96	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	84	50 - 120
13C-1,2,3,4,7,8-HxCDF	98	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	97	40 - 120

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

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 008	**Work Order #....:**	MA1121AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	626.8
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.032	0.0032	pg/m3
Total TCDD	ND		0.032	0.0032	pg/m3
1,2,3,7,8-PeCDD	ND		0.16	0.0045	pg/m3
Total PeCDD	ND		0.16	0.0045	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.16	0.0034	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.16	0.0030	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.16	0.0030	pg/m3
Total HxCDD	**0.021**		**0.16**	**0.0032**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.043**	**J**	**0.16**	**0.0029**	**pg/m3**
Total HpCDD	**0.091**		**0.16**	**0.0029**	**pg/m3**
OCDD	**0.16**		**0.32**	**0.0034**	**pg/m3**
2,3,7,8-TCDF	**0.013**	**J Q**	**0.032**	**0.0026**	**pg/m3**
Total TCDF	**0.074**		**0.032**	**0.0026**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.16	0.0041	pg/m3
2,3,4,7,8-PeCDF	ND		0.16	0.0041	pg/m3
Total PeCDF	**0.020**		**0.16**	**0.0041**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.017**	**J**	**0.16**	**0.0022**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.0086**	**J Q**	**0.16**	**0.0021**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.16	0.0022	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.16	0.0024	pg/m3
Total HxCDF	**0.051**		**0.16**	**0.0022**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.035**	**J**	**0.16**	**0.0021**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.010**	**J Q**	**0.16**	**0.0024**	**pg/m3**
Total HpCDF	**0.069**		**0.16**	**0.0022**	**pg/m3**
OCDF	**0.073**	**J**	**0.32**	**0.0027**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	94	40 - 120
13C-OCDD	96	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	84	50 - 120
13C-1,2,3,4,7,8-HxCDF	98	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	97	40 - 120

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

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 008	**Work Order #....:**	MA1121AA	**Matrix.....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date.....:	12/08/10	**Analysis Date.....:**	12/11/10	**Volume.....:**	626.8
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method.....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID.....:**	Mark Onishi		

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 011	**Work Order #....:**	MA12V1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	638.46
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	**8.7**		**20**		
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	**2.6**		**100**		
1,2,3,4,6,7,8-HpCDD	**13**	**J**	**100**	**0.01**	**0.00020**
Total HpCDD	**26**		**100**		
OCDD	**44**	**J**	**200**	**0.0003**	**0.000021**
2,3,7,8-TCDF	**12**	**J CON**	**20**	**0.1**	**0.0019**
Total TCDF	**220**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**26**		**100**		
1,2,3,4,7,8-HxCDF	**6.2**	**J**	**100**	**0.1**	**0.00097**
1,2,3,6,7,8-HxCDF	**4.7**	**J**	**100**	**0.1**	**0.00074**
2,3,4,6,7,8-HxCDF	**1.4**	**J**	**100**	**0.1**	**0.00022**
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**23**		**100**		
1,2,3,4,6,7,8-HpCDF	**14**	**J**	**100**	**0.01**	**0.00022**
1,2,3,4,7,8,9-HpCDF	**3.7**	**J**	**100**	**0.01**	**0.000058**
Total HpCDF	**24**		**100**		
OCDF	**21**	**J Q**	**200**	**0.0003**	**0.0000099**
Total TEQ Concentration					**0.0043**

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L080454 - 011	**Work Order #....:**	MA12V1AA	**Matrix.....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Instrument ID....:**	10D5
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	638.46
Prep Batch # ....:	0342379	**Dilution Factor....:**	1	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	100	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	92	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	85	50 - 120
13C-1,2,3,4,7,8-HxCDF	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	98	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 011	**Work Order #....:**	MA12V1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	638.46
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.031	0.0030	pg/m3
Total TCDD	**0.014**		**0.031**	**0.0030**	**pg/m3**
1,2,3,7,8-PeCDD	ND		0.16	0.0056	pg/m3
Total PeCDD	ND		0.16	0.0056	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.16	0.0027	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.16	0.0023	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.16	0.0025	pg/m3
Total HxCDD	**0.0041**		**0.16**	**0.0025**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.021**	**J**	**0.16**	**0.0027**	**pg/m3**
Total HpCDD	**0.040**		**0.16**	**0.0027**	**pg/m3**
OCDD	**0.070**	**J**	**0.31**	**0.0036**	**pg/m3**
2,3,7,8-TCDF	**0.019**	**J CON**	**0.031**	**0.0045**	**pg/m3**
Total TCDF	**0.35**		**0.031**	**0.0025**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.16	0.0047	pg/m3
2,3,4,7,8-PeCDF	ND		0.16	0.0049	pg/m3
Total PeCDF	**0.041**		**0.16**	**0.0049**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.0096**	**J**	**0.16**	**0.0022**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.0074**	**J**	**0.16**	**0.0020**	**pg/m3**
2,3,4,6,7,8-HxCDF	**0.0022**	**J**	**0.16**	**0.0020**	**pg/m3**
1,2,3,7,8,9-HxCDF	ND		0.16	0.0023	pg/m3
Total HxCDF	**0.037**		**0.16**	**0.0022**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.022**	**J**	**0.16**	**0.0020**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.0058**	**J**	**0.16**	**0.0023**	**pg/m3**
Total HpCDF	**0.038**		**0.16**	**0.0022**	**pg/m3**
OCDF	**0.033**	**J Q**	**0.31**	**0.0033**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	85	50 - 120
13C-1,2,3,6,7,8-HxCDD	100	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	92	40 - 120
13C-OCDD	89	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	85	50 - 120
13C-1,2,3,4,7,8-HxCDF	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	98	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 011	**Work Order #....:**	MA12V1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	638.46
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

QUALIFIERS

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

QC DATA ASSOCIATION SUMMARY

G0L080454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	AA	EPA-2 TO-9		0342379	
005	AA	EPA-2 TO-9		0342379	
007	AA	CFR50B APDX B		0344398	
	AA	SW846 6020		0344269	
008	AA	EPA-2 TO-9		0342379	
009	AA	EPA-2 TO-13		0342383	
010	AA	CFR50B APDX B		0344398	
	AA	SW846 6020		0344269	
011	AA	EPA-2 TO-9		0342379	
012	AA	EPA-2 TO-13		0342383	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L080000 - 379B	**Work Order #....:**	MA3AG1AA	**Matrix....:**	AIR
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	0
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND	20	1.5	pg
Total TCDD	ND	20	1.5	pg
1,2,3,7,8-PeCDD	ND	100	3.4	pg
Total PeCDD	ND	100	3.4	pg
1,2,3,4,7,8-HxCDD	ND	100	1.9	pg
1,2,3,6,7,8-HxCDD	ND	100	1.7	pg
1,2,3,7,8,9-HxCDD	ND	100	1.8	pg
Total HxCDD	ND	100	1.9	pg
1,2,3,4,6,7,8-HpCDD	ND	100	1.7	pg
Total HpCDD	ND	100	1.7	pg
OCDD	ND	200	3.2	pg
2,3,7,8-TCDF	ND	20	1.2	pg
Total TCDF	ND	20	1.2	pg
1,2,3,7,8-PeCDF	ND	100	2.2	pg
2,3,4,7,8-PeCDF	ND	100	2.2	pg
Total PeCDF	ND	100	2.4	pg
1,2,3,4,7,8-HxCDF	ND	100	1.3	pg
1,2,3,6,7,8-HxCDF	ND	100	1.2	pg
2,3,4,6,7,8-HxCDF	ND	100	1.4	pg
1,2,3,7,8,9-HxCDF	ND	100	1.4	pg
Total HxCDF	ND	100	1.3	pg
1,2,3,4,6,7,8-HpCDF	ND	100	1.1	pg
1,2,3,4,7,8,9-HpCDF	ND	100	1.4	pg
Total HpCDF	ND	100	1.4	pg
OCDF	ND	200	2.2	pg

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	84	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	88	40 - 120
13C-OCDD	84	40 - 120
13C-2,3,7,8-TCDF	90	50 - 120
13C-1,2,3,7,8-PeCDF	83	50 - 120
13C-1,2,3,4,7,8-HxCDF	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 120

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

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L080000 - 379B	**Work Order #....:**	MA3AG1AA	**Matrix....:**	AIR
Date Sampled....:	12/03/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/11/10	**Volume....:**	0
Prep Batch # ....:	0342379	**Instrument ID....:**	10D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L080454	**Work Order # ...:**	MA3AG1AC-LCS MA3AG1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L080000 - 379				
Prep Date .....:	12/08/10	**Analysis Date ..:**	12/11/10		
Prep Batch # ...:	0342379				
Dilution Factor :	1				
Analyst ID.....:	Mark Onishi	**Instrument ID..:**	10D5	**Method.....:**	EPA-2 TO-9
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	**400**	**384**	**pg**	**96**	**(70 - 130)**		
	400	**395**	**pg**	**99**	**(70 - 130)**	**2.7**	**(0 - 30)**
1,2,3,7,8-PeCDD	**2000**	**1870**	**pg**	**93**	**(70 - 130)**		
	2000	**1970**	**pg**	**98**	**(70 - 130)**	**5.2**	**(0 - 30)**
1,2,3,4,7,8-HxCDD	**2000**	**1740**	**pg**	**87**	**(70 - 130)**		
	2000	**1960**	**pg**	**98**	**(70 - 130)**	**12**	**(0 - 30)**
1,2,3,6,7,8-HxCDD	**2000**	**1960**	**pg**	**98**	**(70 - 130)**		
	2000	**2030**	**pg**	**101**	**(70 - 130)**	**3.2**	**(0 - 30)**
1,2,3,7,8,9-HxCDD	**2000**	**1840**	**pg**	**92**	**(70 - 130)**		
	2000	**1930**	**pg**	**96**	**(70 - 130)**	**4.5**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDD	**2000**	**1930**	**pg**	**96**	**(70 - 130)**		
	2000	**2100**	**pg**	**105**	**(70 - 130)**	**8.7**	**(0 - 30)**
OCDD	**4000**	**3860**	**pg**	**96**	**(70 - 130)**		
	4000	**4050**	**pg**	**101**	**(70 - 130)**	**4.9**	**(0 - 30)**
2,3,7,8-TCDF	**400**	**385**	**pg**	**96**	**(70 - 130)**		
	400	**404**	**pg**	**101**	**(70 - 130)**	**4.8**	**(0 - 30)**
1,2,3,7,8-PeCDF	**2000**	**1930**	**pg**	**97**	**(70 - 130)**		
	2000	**2020**	**pg**	**101**	**(70 - 130)**	**4.7**	**(0 - 30)**
2,3,4,7,8-PeCDF	**2000**	**1920**	**pg**	**96**	**(70 - 130)**		
	2000	**2020**	**pg**	**101**	**(70 - 130)**	**5.0**	**(0 - 30)**
1,2,3,4,7,8-HxCDF	**2000**	**1950**	**pg**	**98**	**(70 - 130)**		
	2000	**2050**	**pg**	**102**	**(70 - 130)**	**4.8**	**(0 - 30)**
1,2,3,6,7,8-HxCDF	**2000**	**1960**	**pg**	**98**	**(70 - 130)**		
	2000	**2030**	**pg**	**102**	**(70 - 130)**	**3.7**	**(0 - 30)**
2,3,4,6,7,8-HxCDF	**2000**	**1950**	**pg**	**98**	**(70 - 130)**		
	2000	**2040**	**pg**	**102**	**(70 - 130)**	**4.5**	**(0 - 30)**
1,2,3,7,8,9-HxCDF	**2000**	**1960**	**pg**	**98**	**(70 - 130)**		
	2000	**2030**	**pg**	**102**	**(70 - 130)**	**3.4**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDF	**2000**	**1920**	**pg**	**96**	**(70 - 130)**		
	2000	**2060**	**pg**	**103**	**(70 - 130)**	**7.3**	**(0 - 30)**
1,2,3,4,7,8,9-HpCDF	**2000**	**1870**	**pg**	**93**	**(70 - 130)**		
	2000	**2060**	**pg**	**103**	**(70 - 130)**	**9.9**	**(0 - 30)**
OCDF	**4000**	**3870**	**pg**	**97**	**(70 - 130)**		
	4000	**3990**	**pg**	**100**	**(70 - 130)**	**3.0**	**(0 - 30)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	99	(50 - 120)
	93	(50 - 120)
13C-1,2,3,7,8-PeCDD	89	(50 - 120)
	85	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	104	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0L080454 **Work Order # ...:** MA3AG1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : G0L080000 - 379 MA3AG1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	103	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 120)
	92	(40 - 120)
13C-OCDD	91	(40 - 120)
	90	(40 - 120)
13C-2,3,7,8-TCDF	95	(50 - 120)
	90	(50 - 120)
13C-1,2,3,7,8-PeCDF	86	(50 - 120)
	83	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	97	(50 - 120)
	99	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	97	(40 - 120)
	94	(40 - 120)

Notes:

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

Bold print denotes control parameters

AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 007	**Work Order #....:**	MA11P1AC	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/10/10	**Analysis Date....:**	12/13/10	**Volume....:**	955.26
Prep Batch # ....:	0344269	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0014**	**B J**	**0.0025**	**0.00051**	**ug/m3**
Manganese	**0.624**		**0.00126**	**0.000178**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 010	**Work Order #....:**	MA12P1AC	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/10/10	**Analysis Date....:**	12/13/10	**Volume....:**	899.14
Prep Batch # ....:	0344269	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0012**	**B J**	**0.0027**	**0.00054**	**ug/m3**
Manganese	**0.122**		**0.00133**	**0.000189**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

QC DATA ASSOCIATION SUMMARY

G0L080454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	AA	SW846 6020		0344269	
010	AA	SW846 6020		0344269	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L100000 - 269B	**Work Order #....:**	MA6PQ1AA	**Matrix....:**	AIR
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/10/10	**Analysis Date....:**	12/13/10	**Volume....:**	0
Prep Batch # ....:	0344269	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.90**	**B**	**2.4**	**0.49**	**ug**
Manganese	ND		1.2	0.17	ug

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L080454	**Work Order # ...:**	MA6PQ1AD-LCS MA6PQ1AE-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L100000 - 269				
Prep Date .....:	12/10/10	**Analysis Date ..:**	12/13/10		
Prep Batch # ...:	0344269				
Dilution Factor :	1				
Analyst ID.....:	Sabine Hargrave	**Instrument ID..:**	M02	**Method.....:**	SW846 6020
Initial Wgt/Vol:	0.08333 L				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Arsenic	**240**	**225**	**ug**	**94**	**(86 - 110)**		
	240	**221**	**ug**	**92**	**(86 - 110)**	**1.8**	**(0 - 15)**
Manganese	**240**	**231**	**ug**	**96**	**(88 - 110)**		
	240	**224**	**ug**	**93**	**(88 - 110)**	**2.9**	**(0 - 15)**

Notes:

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

Bold print denotes control parameters

AIR, TSP-
Total Suspended
Particulates

Northgate Environmental Management, Inc.

Sample ID: UW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 007	**Work Order #....:**	MA11P1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/10/10	**Volume....:**	955.26
Prep Batch # ....:	0344398	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000351**	**0.000000523**	**--**	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-12062010B

Trace Level Compounds

Lot - Sample #....:	G0L080454 - 010	**Work Order #....:**	MA12P1AA	**Matrix....:**	AA
Date Sampled....:	12/06/10	**Date Received....:**	12/08/10	**Dilution Factor....:**	1
Prep Date....:	12/08/10	**Analysis Date....:**	12/10/10	**Volume....:**	899.14
Prep Batch # ....:	0344398	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000311**	**0.000000556**	**--**	**g/m3**

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0L080454

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
007	AA	CFR50B APDX B		0344398	
010	AA	CFR50B APDX B		0344398	

AIR, TO-13, Semivolatile Organics

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

TestAmerica West Sacramento Page# _____

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

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

Inst ID : sv5.i
Batch ID : 121010.B
ICAL Date: See Calib Report
See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
10-DEC-2010	14:02	KT	PRIMER	QC001.D	NA	NA	NA		
10-DEC-2010	14:24	KT	DFTPP 50ug/ml	DFT1210.D	NA	NA	NA		
10-DEC-2010	14:45	KT	HSL_050 ug/ml CS-4	HSL1210.D	NA	NA	NA		
10-DEC-2010	15:18	KT	MA13X1AA G0L080000-245B	S121001.D	1000 mL	1 mL	1	QL	
10-DEC-2010	15:42	KT	MA13X1AC G0L080000-245C	S121002.D	1000 mL	1 mL	1	QL	
10-DEC-2010	16:07	KT	MA13X1AD G0L080000-245L	S121003.D	1000 mL	1 mL	1	QL	
10-DEC-2010	16:31	KT	MAR3V1AD G0L020595-2	S121004.D	1036.43 mL	1 mL	1	QL	RIC 2x OK
10-DEC-2010	16:55	KT	MAVWN1AK G0L030627-1	S121005.D	1054.19 mL	1 mL	1	QL	
10-DEC-2010	17:20	KT	MAVW01AK G0L030627-2	S121006.D	1041.15 mL	1 mL	1	QL	
10-DEC-2010	17:44	KT	MA3AJ1AA G0L080000-383B	S121007.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	18:09	KT	MA3AJ1AC G0L080000-383C	S121008.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	18:33	KT	MA3AJ1AD G0L080000-383L	S121009.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	18:58	KT	MA12A1AA G0L080454-9	S121010.D	1000 Sa	1 mL	1	JZ	Low Surr see RI
10-DEC-2010	19:22	KT	MA12X1AA G0L080454-12	S121011.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	19:47	KT	MATW51AF G0L030484-3	S121012.D	30.15 g	1 mL	1	QL	
10-DEC-2010	20:11	KT	MATXJ1AF G0L030484-11	S121013.D	29.49 g	1 mL	1	QL	
10-DEC-2010	20:36	KT	MAKLA1AD G0K240631-1 50X	S121014.D	0.95 g	10 mL	50	QL	
10-DEC-2010	21:00	KT	MA13X1AA G0L080000-245B	S121015.D	1000 mL	1 mL	1	QL	
10-DEC-2010	21:25	KT	MA13X1AC G0L080000-245C	S121016.D	1000 mL	1 mL	1	QL	
10-DEC-2010	21:49	KT	MA13X1AD G0L080000-245L	S121017.D	1000 mL	1 mL	1	QL	
10-DEC-2010	22:13	KT	MA3AJ1AA G0L080000-383B	S121018.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	22:38	KT	MA12A1AA G0L080454-9	S121019.D	1000 Sa	1 mL	1	JZ	
10-DEC-2010	23:02	KT	MA12X1AA G0L080454-12	S121020.D	1000 Sa	1 mL	1	JZ	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8270C CCV Checklist

Instrument: SV5

ICAL Date: 10/02/10 DFTPP ID: DFT1210

Initiator/Date: KT-12/13/10 Standard ID: HSL1210

Reviewer/Date: 12/13/10 NCM #: —

I: 8270C Criteria

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

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☒	2,4-Dinitrophenol	☒	☒
Hexachlorocyclopentadiene	☒	☐	4-Nitrophenol	☒	☒

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

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☒	Acenaphthene	☒	☒
1,4-Dichlorobenzene	☒	☒	N-nitrosodiphenylamine	☒	☒
2-Nitrophenol	☒	☒	Pentachlorophenol	☒	☐
2,4-Dinitrophenol	☒	☒	Flouranthene	☒	☒
Hexachlorobutadiene	☒	☒	Di-n-octyl phthalate	☒	☒
4-Chloro-3-methylphenol	☒	☒	Benzo(a)pyrene	☒	☒
2,4,6-Trichlorophenol	☒	☒			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

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

V: DOD QSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be ≤ 20% D.	☒	☐
RRFs for SPCCs must meet minimum response factor criteria	☒	☐
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☐
SIM: All analytes must be ≤ 20%	☐NA	☐
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☐

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 10-DEC-2010 14:45
Lab File ID: HSL1210.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32 15:00
Lab Sample ID: HSL 050 ug/ml CS-4 Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\121010.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.42116	1.42116	0.010	0.79682	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.79229	1.79229	0.010	1.09040	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.60549	1.60549	0.010	3.11561	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	1.02265	1.02265	0.010	3.80884	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.34516	0.34516	0.010	1.87827	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.31393	1.31393	0.010	1.97160	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.19342	0.19342	0.010	11.27926	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.78716	0.78716	0.010	-0.09333	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.91418	0.91418	0.010	-0.79860	50.00000	Averaged
16 Pyridine	1.54111	1.61722	1.61722	0.010	4.93834	50.00000	Averaged
23 Aniline	2.25673	2.30124	2.30124	0.010	1.97252	50.00000	Averaged
24 Phenol	2.03729	2.02920	2.02920	0.010	-0.39702	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.45156	1.45156	0.010	1.60747	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.59849	1.59849	0.010	2.21769	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.76199	1.76199	0.010	3.44113	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.84298	1.84298	0.010	3.46978	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.06692	1.06692	0.010	1.51346	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.66186	1.66186	0.010	1.48982	50.00000	Averaged
32 2-Methylphenol	1.43012	1.45852	1.45852	0.010	1.98560	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.35227	2.35227	0.010	3.45782	50.00000	Averaged
34 4-Methylphenol	1.51904	1.56687	1.56687	0.010	3.14844	50.00000	Averaged
36 Hexachloroethane	0.60636	0.64665	0.64665	0.010	6.64440	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.01180	1.06023	1.06023	0.050	4.78645	50.00000	Averaged
42 Nitrobenzene	0.33116	0.33830	0.33830	0.010	2.15576	50.00000	Averaged
44 Isophorone	0.63679	0.64786	0.64786	0.010	1.73842	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20291	0.20291	0.010	3.27565	20.00000	Averaged
46 2,4-Dimethyphenol	0.34911	0.36312	0.36312	0.010	4.01191	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.38492	0.38492	0.010	-1.06964	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.27377	0.27377	0.010	1.35918	20.00000	Averaged
50 Benzoic Acid	0.19324	0.19332	0.19332	0.010	0.04042	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.29729	0.29729	0.010	1.65188	50.00000	Averaged
52 Naphthalene	1.10443	1.07241	1.07241	0.010	-2.89854	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.43352	0.43352	0.010	0.14940	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15083	0.15083	0.010	5.38602	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.31584	0.31584	0.010	4.71002	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.70393	0.70393	0.010	1.46412	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.31051	0.31051	0.050	4.03914	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.33785	0.33785	0.010	5.86418	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.34380	0.37155	0.37155	0.010	8.06987	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.12924	1.12924	0.010	0.31376	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.37034	0.37034	0.010	8.54621	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.35436	1.35436	0.010	4.49830	50.00000	Averaged

12/13/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 10-DEC-2010 14:45
Lab File ID: HSL1210.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32 15:00
Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\121010.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.96246	1.96246	0.010	0.10657	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.33025	0.33025	0.010	9.36712	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.37951	0.37951	0.010	0.69179	50.00000	Averaged
81 Acenaphthene	1.24787	1.26452	1.26452	0.010	1.33444	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	55.82814	0.20056	0.050	11.65628	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.68525	1.68525	0.010	1.75881	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.18480	0.18480	0.050	18.20518	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.44055	0.44055	0.010	11.15675	50.00000	Averaged
91 Fluorene	1.37139	1.42269	1.42269	0.010	3.74075	50.00000	Averaged
92 Diethylphthalate	1.32699	1.40941	1.40941	0.010	6.21053	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.61590	0.61590	0.010	8.01703	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.40590	0.40590	0.010	8.64201	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	53.09420	0.15194	0.010	6.18839	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.61801	0.61801	0.010	1.93378	20.00000	Averaged
100 Azobenzene	0.78660	0.76811	0.76811	0.010	-2.35091	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.20747	0.20747	0.010	6.25066	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22972	0.22972	0.010	5.34433	50.00000	Averaged
110 Pentachlorophenol	50.00000	46.96573	0.12156	0.010	-6.06854	0.000e+000	Linear
114 Phenanthrene	1.26074	1.26173	1.26173	0.010	0.07829	50.00000	Averaged
115 Anthracene	1.25955	1.28803	1.28803	0.010	2.26110	50.00000	Averaged
118 Carbazole	1.15061	1.18675	1.18675	0.010	3.14142	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.47462	1.47462	0.010	6.51544	50.00000	Averaged
126 Fluoranthene	1.12969	1.20403	1.20403	0.010	6.58046	20.00000	Averaged
127 Benzidine	0.81067	0.86012	0.86012	0.010	6.09941	50.00000	Averaged
128 Pyrene	1.25025	1.24434	1.24434	0.010	-0.47337	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.74691	0.74691	0.010	4.37011	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.64758	0.64758	0.010	3.34301	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.09885	1.09885	0.010	3.13204	50.00000	Averaged
139 Chrysene	1.08994	1.11699	1.11699	0.010	2.48228	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.42111	0.42111	0.010	4.78198	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.90364	0.90364	0.010	4.68919	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.53117	1.53117	0.010	10.97454	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	0.97029	0.97029	0.010	7.15661	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.19762	1.19762	0.010	3.03393	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.99553	0.99553	0.010	5.43113	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.05530	1.05530	0.010	2.80067	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.97411	0.97411	0.010	17.32157	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	1.03579	1.03579	0.010	11.66584	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.10339	1.10339	0.010	9.86948	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.16792	2.16792	0.010	4.83921	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\HSL1210.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 10-DEC-2010 14:45
Operator : KT Inst ID: sv5.i
Smp Info : HSL_050 ug/ml CS-4;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:56 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.491	3.491	(1.000)	121889	40.0000	
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	533993	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	288260	40.0000	
* 4	Phenanthrene-d10	188	8.828	8.828	(1.000)	477813	40.0000	
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	513580	40.0000	
* 6	Perylene-d12	264	15.450	15.450	(1.000)	516090	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	216529	50.0000	50.40
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	273076	50.0000	50.54
$ 9	2-Chlorophenol-d4	132	3.294	3.294	(0.944)	244615	50.0000	51.56
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	155812	50.0000	51.90
$ 11	Nitrobenzene-d5	82	4.112	4.112	(0.839)	230390	50.0000	50.94
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	473441	50.0000	50.98
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	69694	50.0000	55.64(Q)
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	505336	50.0000	49.95
15	N-Nitrosodimethylamine	74	1.263	1.263	(0.362)	139286	50.0000	49.60
16	Pyridine	79	1.273	1.273	(0.365)	246401	50.0000	52.47
23	Aniline	93	3.200	3.200	(0.917)	350620	50.0000	50.99
24	Phenol	94	3.190	3.190	(0.914)	309171	50.0000	49.80
26	Bis(2-chloroethyl)ether	93	3.263	3.263	(0.935)	221161	50.0000	50.80
27	2-Chlorophenol	128	3.304	3.304	(0.947)	243548	50.0000	51.11
28	1,3-Dichlorobenzene	146	3.449	3.449	(0.988)	268459	50.0000	51.72
29	1,4-Dichlorobenzene	146	3.501	3.501	(1.003)	280799	50.0000	51.73
30	Benzyl Alcohol	108	3.667	3.667	(1.050)	162557	50.0000	50.76
31	1,2-Dichlorobenzene	146	3.708	3.708	(1.062)	253203	50.0000	50.74
32	2-Methylphenol	108	3.822	3.822	(1.095)	222222	50.0000	50.99
33	2,2'-oxybis(1-Chloropropane)	45	3.843	3.843	(1.101)	358395	50.0000	51.73
34	4-Methylphenol	108	3.988	3.988	(1.142)	238730	50.0000	51.57
36	Hexachloroethane	117	4.029	4.029	(1.154)	98525	50.0000	53.32
37	N-Nitrosodinpropylamine	70	3.988	3.988	(1.142)	161538	50.0000	52.39
42	Nitrobenzene	77	4.133	4.133	(0.844)	225814	50.0000	51.08
44	Isophorone	82	4.403	4.403	(0.898)	432440	50.0000	50.87
45	2-Nitrophenol	139	4.496	4.496	(0.918)	135443	50.0000	51.64
46	2,4-Dimethyphenol	107	4.579	4.579	(0.934)	242380	50.0000	52.00

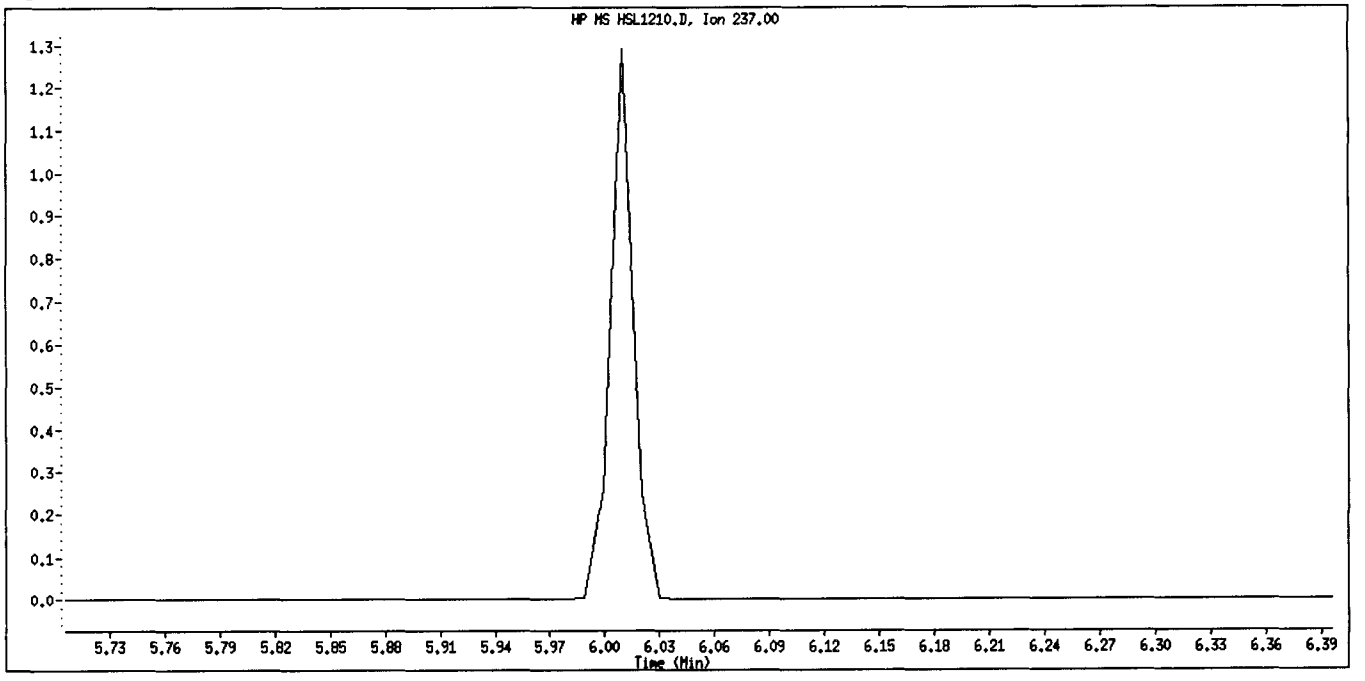
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	4.682	4.682	(0.956)	256932	50.0000	49.46
49	2,4-Dichlorophenol	162	4.765	4.765	(0.973)	182740	50.0000	50.68
50	Benzoic Acid	122	4.703	4.703	(0.960)	129039	50.0000	50.02
51	1,2,4-Trichlorobenzene	180	4.858	4.858	(0.992)	198436	50.0000	50.82
52	Naphthalene	128	4.921	4.921	(1.004)	715827	50.0000	48.55
54	4-Chloroaniline	127	5.035	5.035	(1.027)	289372	50.0000	50.07
57	Hexachlorobutadiene	225	5.149	5.149	(1.051)	100681	50.0000	52.69
60	4-Chloro-3-Methylphenol	107	5.636	5.636	(1.150)	210822	50.0000	52.36
63	2-Methylnaphthalene	142	5.729	5.729	(1.169)	469869	50.0000	50.73(H)
66	Hexachlorocyclopentadiene	237	6.009	6.009	(0.861)	111885	50.0000	52.02(M)
69	2,4,6-Trichlorophenol	196	6.112	6.112	(0.875)	121735	50.0000	52.93
70	2,4,5-Trichlorphenol	196	6.164	6.164	(0.883)	133877	50.0000	54.03
71	2-Chloronaphthalene	162	6.299	6.299	(0.902)	406894	50.0000	50.16
73	2-Nitroaniline	65	6.485	6.485	(0.929)	133444	50.0000	54.27
76	Dimethylphthalate	163	6.765	6.765	(0.969)	488011	50.0000	52.25
77	Acenaphthylene	152	6.796	6.796	(0.973)	707122	50.0000	50.05
79	2,6-Dinitrotoluene	165	6.838	6.838	(0.979)	118998	50.0000	54.68
80	3-Nitroaniline	138	6.983	6.983	(1.000)	136748	50.0000	50.34
81	Acenaphthene	153	7.024	7.024	(1.006)	455638	50.0000	50.67
82	2,4-Dinitrophenol	184	7.107	7.107	(1.018)	72265	50.0000	55.83
83	Dibenzofuran	168	7.211	7.211	(1.033)	607237	50.0000	50.88
84	4-Nitrophenol	109	7.242	7.242	(1.037)	66589	50.0000	59.10
86	2,4-Dinitrotoluene	165	7.294	7.294	(1.045)	158741	50.0000	55.58
91	Fluorene	166	7.625	7.625	(1.092)	512632	50.0000	51.87
92	Diethylphthalate	149	7.615	7.615	(1.091)	507844	50.0000	53.10
93	4-Chlorophenyl-phenylether	204	7.657	7.657	(1.096)	221925	50.0000	54.01
94	4-Nitroaniline	138	7.719	7.719	(1.105)	146256	50.0000	54.32
97	4,6-Dinitro-2-methylphenol	198	7.781	7.781	(0.881)	90748	50.0000	53.09
98	N-Nitrosodiphenylamine	169	7.812	7.812	(0.885)	432603	58.6000	59.73
100	Azobenzene	77	7.843	7.843	(0.888)	458766	50.0000	48.82
101	4-Bromophenyl-phenylether	248	8.258	8.258	(0.935)	123916	50.0000	53.12
108	Hexachlorobenzene	284	8.423	8.423	(0.954)	137204	50.0000	52.67
110	Pentachlorophenol	266	8.682	8.682	(0.984)	72605	50.0000	46.96
114	Phenanthrene	178	8.859	8.859	(1.004)	753589	50.0000	50.04
115	Anthracene	178	8.921	8.921	(1.011)	769294	50.0000	51.13
118	Carbazole	167	9.190	9.190	(1.041)	708808	50.0000	51.57
120	Di-n-Butylphthalate	149	9.885	9.885	(1.120)	880740	50.0000	53.26
126	Fluoranthene	202	10.662	10.662	(1.208)	719125	50.0000	53.29
127	Benzidine	184	10.952	10.952	(0.836)	552175	50.0000	53.05
128	Pyrene	202	11.004	11.004	(0.840)	798833	50.0000	49.76
134	3,3'-dimethylbenzidine	212	12.227	12.227	(0.934)	479499	50.0000	52.18
136	Butylbenzylphthalate	149	12.351	12.351	(0.943)	415731	50.0000	51.67
138	Benzo(a)Anthracene	228	13.066	13.066	(0.998)	705433	50.0000	51.57
139	Chrysene	228	13.139	13.139	(1.003)	717081	50.0000	51.24
140	3,3'-Dichlorobenzidine	252	13.128	13.128	(1.002)	270342	50.0000	52.39
141	bis(2-ethylhexyl)Phthalate	149	13.470	13.470	(1.028)	580112	50.0000	52.34
142	Di-n-octylphthalate	149	14.527	14.527	(1.109)	982973	50.0000	55.49
144	Benzo(b)fluoranthene	252	14.880	14.880	(0.963)	625948	50.0000	53.58
145	Benzo(k)fluoranthene	252	14.911	14.911	(0.965)	772602	50.0000	51.52
147	Benzo(e)pyrene	252	15.284	15.284	(0.989)	642229	50.0000	52.72
148	Benzo(a)pyrene	252	15.367	15.367	(0.995)	680787	50.0000	51.40
151	Indeno(1,2,3-cd)pyrene	276	16.963	16.963	(1.098)	628409	50.0000	58.66
152	Dibenzo(a,h)anthracene	278	17.014	17.014	(1.101)	668198	50.0000	55.83
153	Benzo(g,h,i)perylene	276	17.325	17.325	(1.121)	711809	50.0000	54.93

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1398550	50.0000	

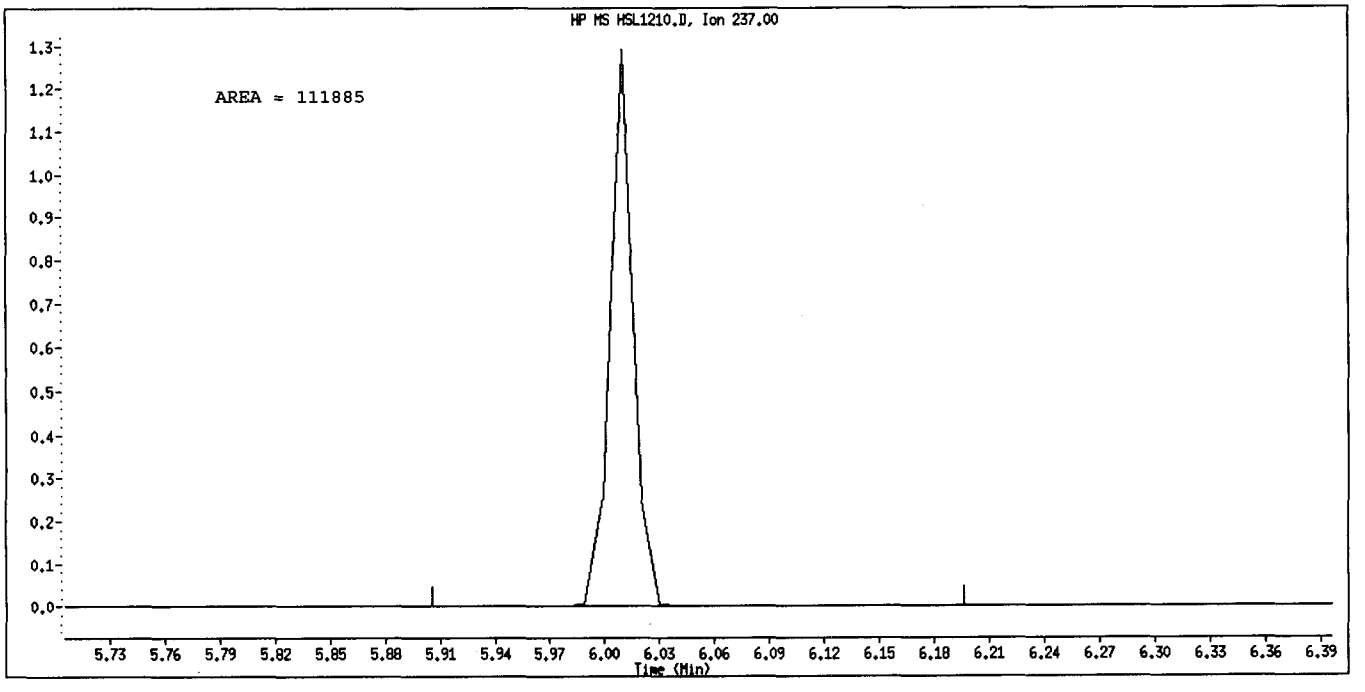
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: HSL1210.D
Inj. Date and Time: 10-DEC-2010 14:45
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Hexachlorocyclopentadiene
CAS #: 77-47-4
Report Date: 12/13/2010



Original Integration



Manual Integration

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

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\HSL1210.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 10-DEC-2010 14:45
Operator : KT Inst ID: sv5.i
Smp Info : HSL_050 ug/ml CS-4;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:20 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SV5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.491	3.491	(1.000)	121889	40.0000	
*	2 Naphthalene-d8	136	4.900	4.900	(1.000)	533993	40.0000	
*	3 Acenaphthene-d10	164	6.983	6.983	(1.000)	288260	40.0000	
*	4 Phenanthrene-d10	188	8.828	8.828	(1.000)	477813	40.0000	
*	5 Chrysene-d12	240	13.097	13.097	(1.000)	513580	40.0000	
*	6 Perylene-d12	264	15.450	15.450	(1.000)	516090	40.0000	
$	7 2-Fluorophenol	112	2.288	2.288	(0.656)	216529	50.0000	50.40
$	8 Phenol-d5	99	3.180	3.180	(0.911)	273076	50.0000	50.54
$	9 2-Chlorophenol-d4	132	3.294	3.294	(0.944)	244615	50.0000	51.56
$	10 1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	155812	50.0000	51.90
$	11 Nitrobenzene-d5	82	4.112	4.112	(0.839)	230390	50.0000	50.94
$	12 2-Fluorobiphenyl	172	6.206	6.206	(0.889)	473441	50.0000	50.98
$	13 2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	69694	50.0000	55.64
$	14 Terphenyl-d14	244	11.377	11.377	(0.869)	505336	50.0000	49.95
	15 N-Nitrosodimethylamine	74	1.263	1.263	(0.362)	139286	50.0000	49.60
	16 Pyridine	79	1.273	1.273	(0.365)	246401	50.0000	52.47
	23 Aniline	93	3.200	3.200	(0.917)	350620	50.0000	50.99
	24 Phenol	94	3.190	3.190	(0.914)	309171	50.0000	49.80
	26 Bis(2-chloroethyl)ether	93	3.263	3.263	(0.935)	221161	50.0000	50.80
	27 2-Chlorophenol	128	3.304	3.304	(0.947)	243548	50.0000	51.11
	28 1,3-Dichlorobenzene	146	3.449	3.449	(0.988)	268459	50.0000	51.72
	29 1,4-Dichlorobenzene	146	3.501	3.501	(1.003)	280799	50.0000	51.73
	30 Benzyl Alcohol	108	3.667	3.667	(1.050)	162557	50.0000	50.76
	31 1,2-Dichlorobenzene	146	3.708	3.708	(1.062)	253203	50.0000	50.74
	32 2-Methylphenol	108	3.822	3.822	(1.095)	222222	50.0000	50.99
	33 2,2'-oxybis(1-Chloropropane)	45	3.843	3.843	(1.101)	358395	50.0000	51.73
	34 4-Methylphenol	108	3.988	3.988	(1.142)	238730	50.0000	51.57
	36 Hexachloroethane	117	4.029	4.029	(1.154)	98525	50.0000	53.32
	37 N-Nitrosodinpropylamine	70	3.988	3.988	(1.142)	161538	50.0000	52.39
	42 Nitrobenzene	77	4.133	4.133	(0.844)	225814	50.0000	51.08
	44 Isophorone	82	4.403	4.403	(0.898)	432440	50.0000	50.87
	45 2-Nitrophenol	139	4.496	4.496	(0.918)	135443	50.0000	51.64
	46 2,4-Dimethyphenol	107	4.579	4.579	(0.934)	242380	50.0000	52.00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	4.682	4.682	(0.956)	256932	50.0000	49.46
49	2,4-Dichlorophenol	162	4.765	4.765	(0.973)	182740	50.0000	50.68
50	Benzoic Acid	122	4.703	4.703	(0.960)	129039	50.0000	50.02
51	1,2,4-Trichlorobenzene	180	4.858	4.858	(0.992)	198436	50.0000	50.82
52	Naphthalene	128	4.921	4.921	(1.004)	715827	50.0000	48.55
54	4-Chloroaniline	127	5.035	5.035	(1.027)	289372	50.0000	50.07
57	Hexachlorobutadiene	225	5.149	5.149	(1.051)	100681	50.0000	52.69
60	4-Chloro-3-Methylphenol	107	5.636	5.636	(1.150)	210822	50.0000	52.36
63	2-Methylnaphthalene	142	5.853	5.853	(1.195)	480641	50.0000	51.90
66	Hexachlorocyclopentadiene	237	Compound Not Detected.					
69	2,4,6-Trichlorophenol	196	6.112	6.112	(0.875)	121735	50.0000	52.93
70	2,4,5-Trichlorphenol	196	6.164	6.164	(0.883)	133877	50.0000	54.03
71	2-Chloronaphthalene	162	6.299	6.299	(0.902)	406894	50.0000	50.16
73	2-Nitroaniline	65	6.485	6.485	(0.929)	133444	50.0000	54.27
76	Dimethylphthalate	163	6.765	6.765	(0.969)	488011	50.0000	52.25
77	Acenaphthylene	152	6.796	6.796	(0.973)	707122	50.0000	50.05
79	2,6-Dinitrotoluene	165	6.838	6.838	(0.979)	118998	50.0000	54.68
80	3-Nitroaniline	138	6.983	6.983	(1.000)	136748	50.0000	50.34
81	Acenaphthene	153	7.024	7.024	(1.006)	455638	50.0000	50.67
82	2,4-Dinitrophenol	184	7.107	7.107	(1.018)	72265	50.0000	55.83
83	Dibenzofuran	168	7.211	7.211	(1.033)	607237	50.0000	50.88
84	4-Nitrophenol	109	7.242	7.242	(1.037)	66589	50.0000	59.10
86	2,4-Dinitrotoluene	165	7.294	7.294	(1.045)	158741	50.0000	55.58
91	Fluorene	166	7.625	7.625	(1.092)	512632	50.0000	51.87
92	Diethylphthalate	149	7.615	7.615	(1.091)	507844	50.0000	53.10
93	4-Chlorophenyl-phenylether	204	7.657	7.657	(1.096)	221925	50.0000	54.01
94	4-Nitroaniline	138	7.719	7.719	(1.105)	146256	50.0000	54.32
97	4,6-Dinitro-2-methylphenol	198	7.781	7.781	(0.881)	90748	50.0000	53.09
98	N-Nitrosodiphenylamine	169	7.812	7.812	(0.885)	432603	58.6000	59.73
100	Azobenzene	77	7.843	7.843	(0.888)	458766	50.0000	48.82
101	4-Bromophenyl-phenylether	248	8.258	8.258	(0.935)	123916	50.0000	53.12
108	Hexachlorobenzene	284	8.423	8.423	(0.954)	137204	50.0000	52.67
110	Pentachlorophenol	266	8.682	8.682	(0.984)	72605	50.0000	46.96
114	Phenanthrene	178	8.859	8.859	(1.004)	753589	50.0000	50.04
115	Anthracene	178	8.921	8.921	(1.011)	769294	50.0000	51.13
118	Carbazole	167	9.190	9.190	(1.041)	708808	50.0000	51.57
120	Di-n-Butylphthalate	149	9.885	9.885	(1.120)	880740	50.0000	53.26
126	Fluoranthene	202	10.662	10.662	(1.208)	719125	50.0000	53.29
127	Benzidine	184	10.952	10.952	(0.836)	552175	50.0000	53.05
128	Pyrene	202	11.004	11.004	(0.840)	798833	50.0000	49.76
134	3,3'-dimethylbenzidine	212	12.227	12.227	(0.934)	479499	50.0000	52.18
136	Butylbenzylphthalate	149	12.351	12.351	(0.943)	415731	50.0000	51.67
138	Benzo(a)Anthracene	228	13.066	13.066	(0.998)	705433	50.0000	51.57
139	Chrysene	228	13.139	13.139	(1.003)	717081	50.0000	51.24
140	3,3'-Dichlorobenzidine	252	13.128	13.128	(1.002)	270342	50.0000	52.39
141	bis(2-ethylhexyl)Phthalate	149	13.470	13.470	(1.028)	580112	50.0000	52.34
142	Di-n-octylphthalate	149	14.527	14.527	(1.109)	982973	50.0000	55.49
144	Benzo(b)fluoranthene	252	14.880	14.880	(0.963)	625948	50.0000	53.58
145	Benzo(k)fluoranthene	252	14.911	14.911	(0.965)	772602	50.0000	51.52
147	Benzo(e)pyrene	252	15.284	15.284	(0.989)	642229	50.0000	52.72
148	Benzo(a)pyrene	252	15.367	15.367	(0.995)	680787	50.0000	51.40
151	Indeno(1,2,3-cd)pyrene	276	16.963	16.963	(1.098)	628409	50.0000	58.66
152	Dibenzo(a,h)anthracene	278	17.014	17.014	(1.101)	668198	50.0000	55.83
153	Benzo(g,h,i)perylene	276	17.325	17.325	(1.121)	711809	50.0000	54.93

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1398550	50.0000	52.42(A)

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1210.D
Lab Smp Id: HSL_050 ug/ml CS-4
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 09-DEC-2010
Calibration Time: 17:52
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	121889	-0.60
2 Naphthalene-d8	530514	265257	1061028	533993	0.66
3 Acenaphthene-d10	282538	141269	565076	288260	2.03
4 Phenanthrene-d10	462722	231361	925444	477813	3.26
5 Chrysene-d12	435850	217925	871700	513580	17.83
6 Perylene-d12	422284	211142	844568	516090	22.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.10	0.00
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

Data File: \\SV5\C\chem\sv5.i\121010.B\HSL1210.D

Date : 10-DEC-2010 14:45

Client ID: 8270F.M

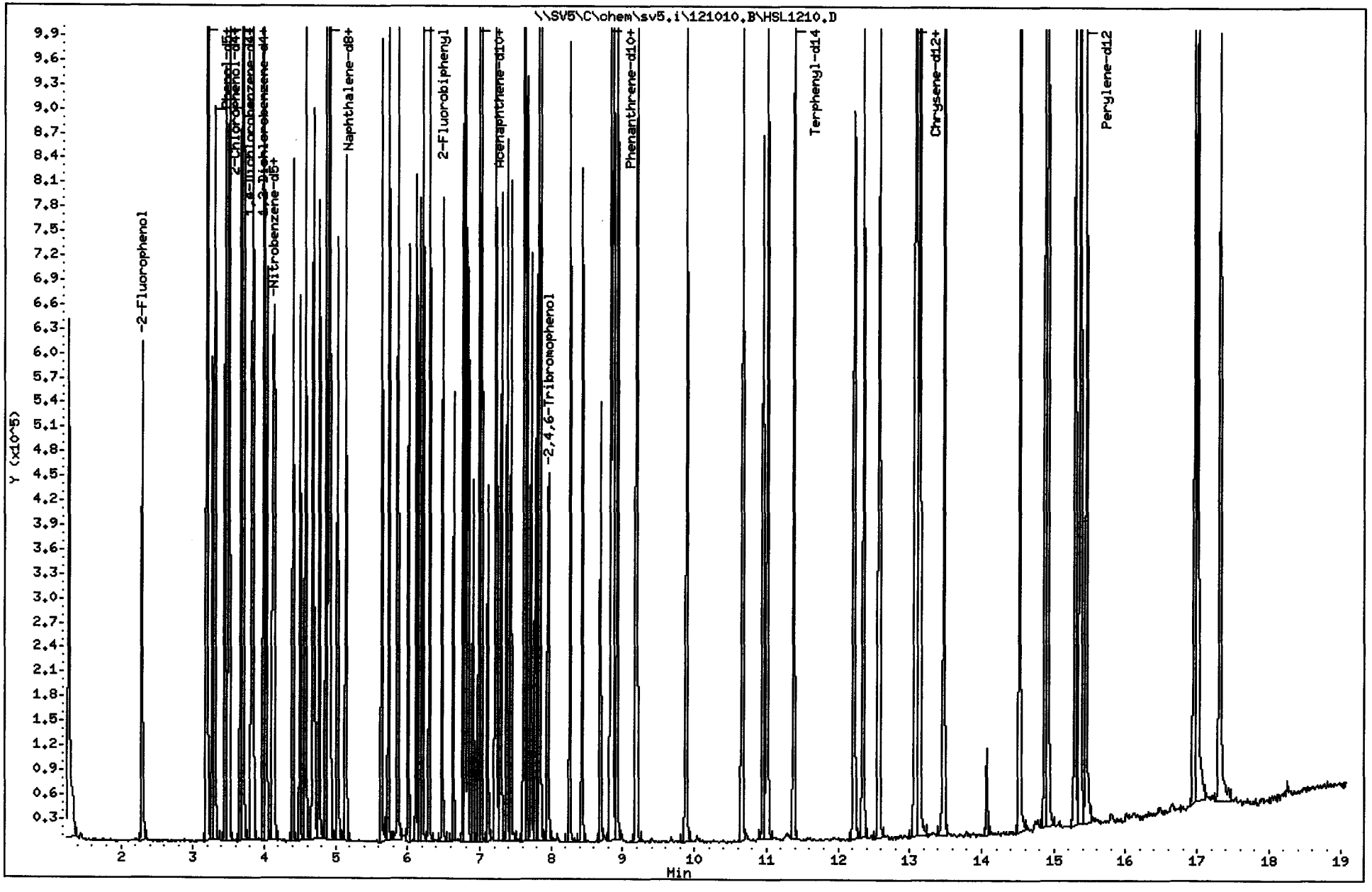
Sample Info: HSL_050 ug/ml CS-4;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.5469975	5.000	PASS
Benzidine	0.3833108	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	425246	15.7	20.5	PASS

Sample //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D

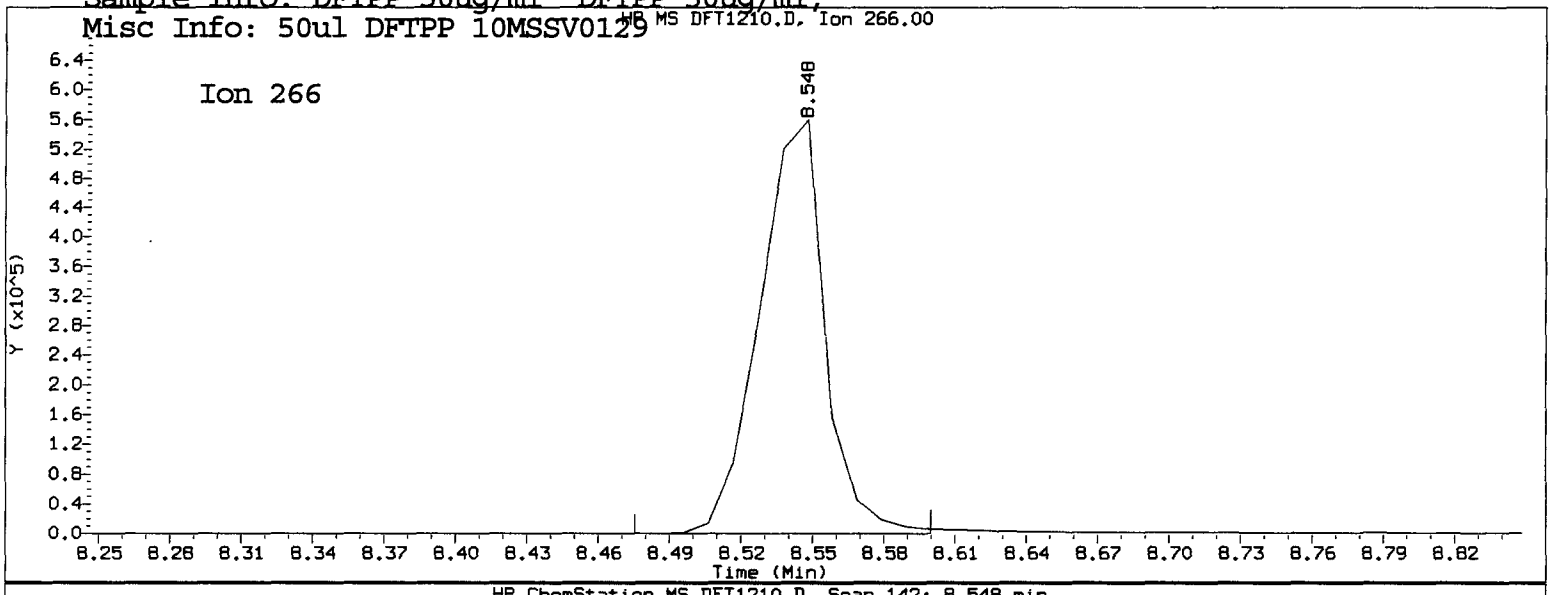
****
*** PASSED ***
****

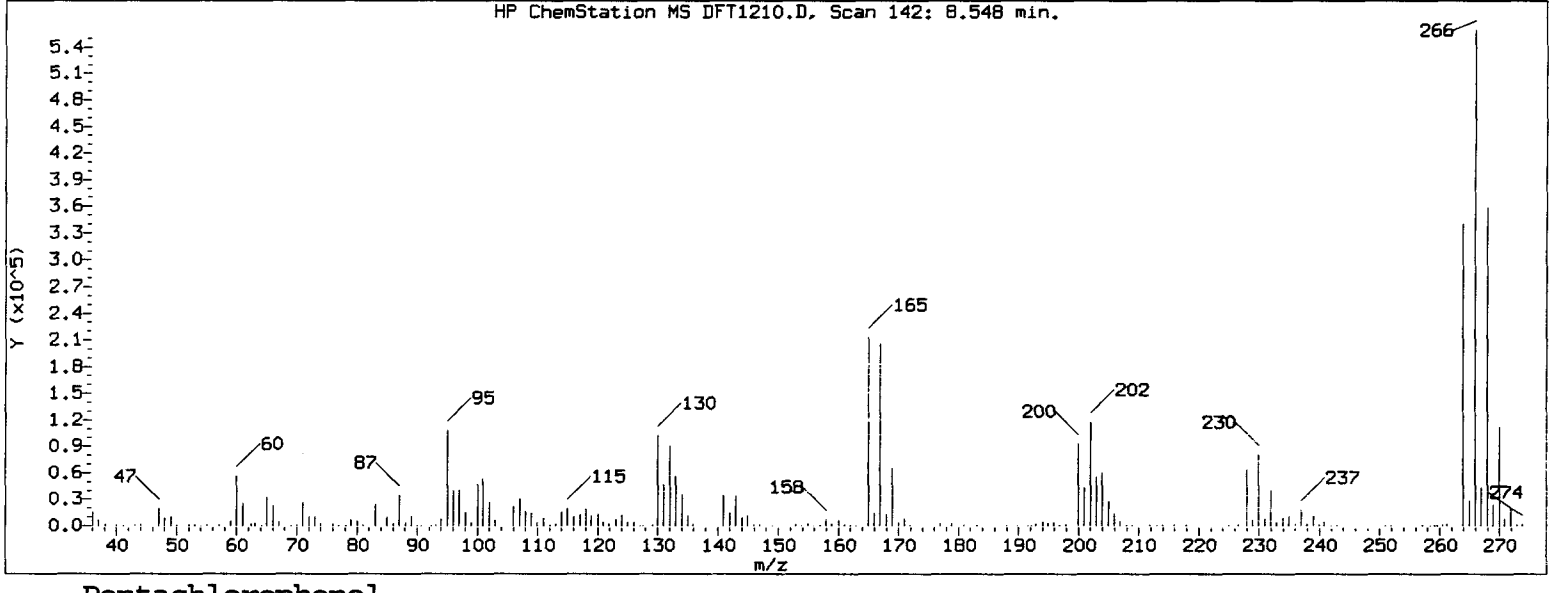
12/13/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 12/13/2010 10:19

Datafile Analyzed: //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D
Method Used: \\SV5\C\chem\sv5.i\121010.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 10-DEC-2010 14:24 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129





Pentachlorophenol
==========
Exp. RT = 8.631
Found RT = 8.548

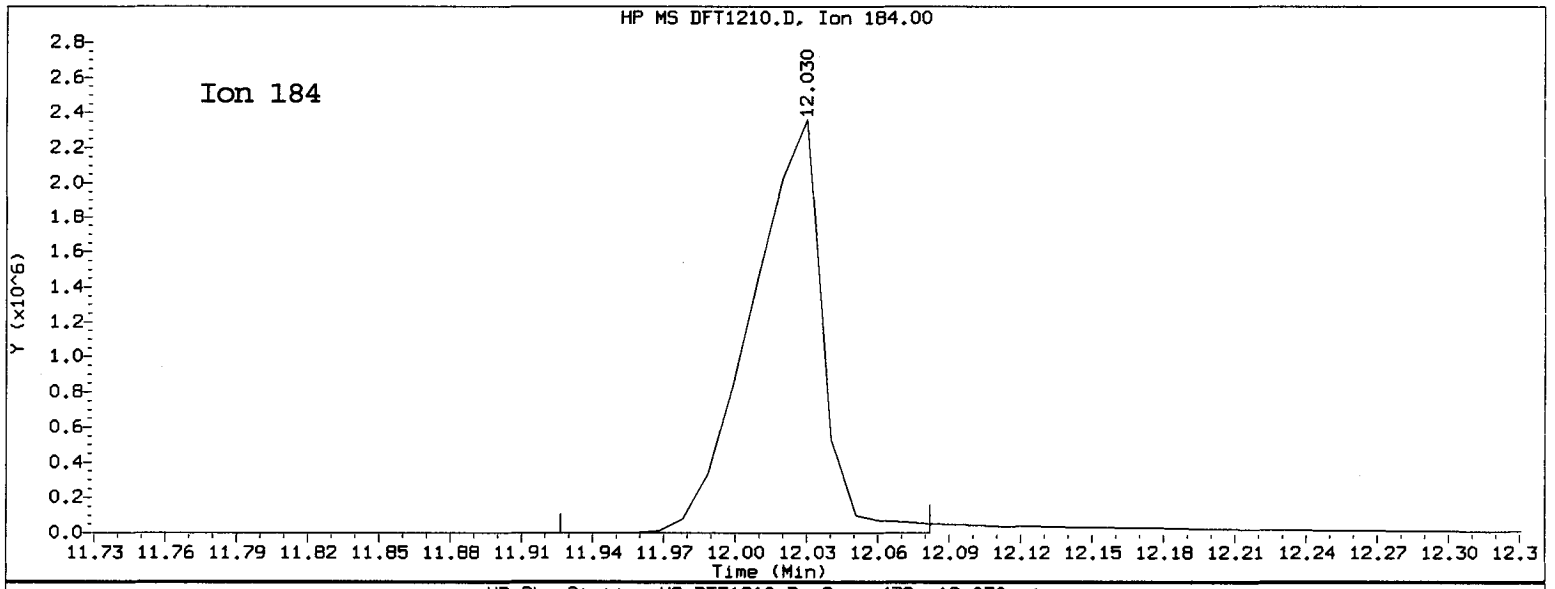
Time1 = 8.511835 Time2 = 8.54795 Time3 = 8.567705
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

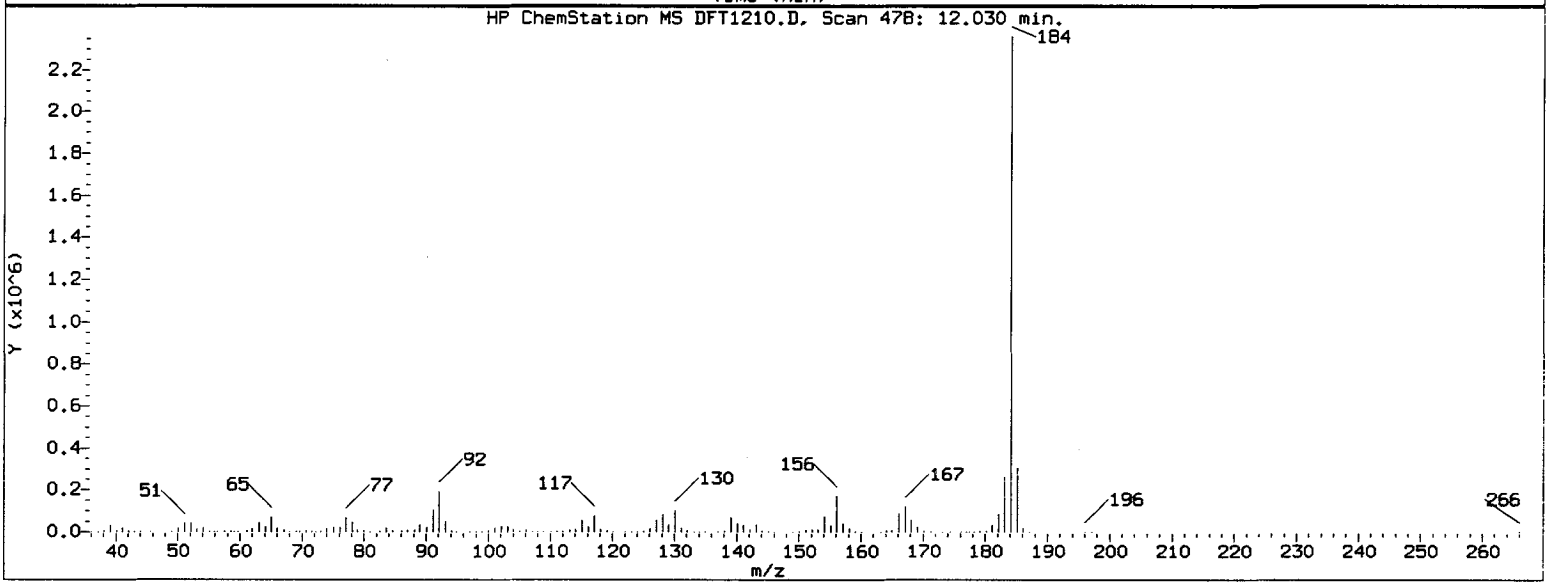
Tailing factor for Pentachlorophenol OK

Tail Factor = 0.547 Maximum Allowed = 5.0

Report Date: 12/13/2010 10:19

Datafile Analyzed: //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D
Method Used: \\SV5\C\chem\sv5.i\121010.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 10-DEC-2010 14:24 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129





Benzidine
==========
Exp. RT = 12.113
Found RT = 12.030

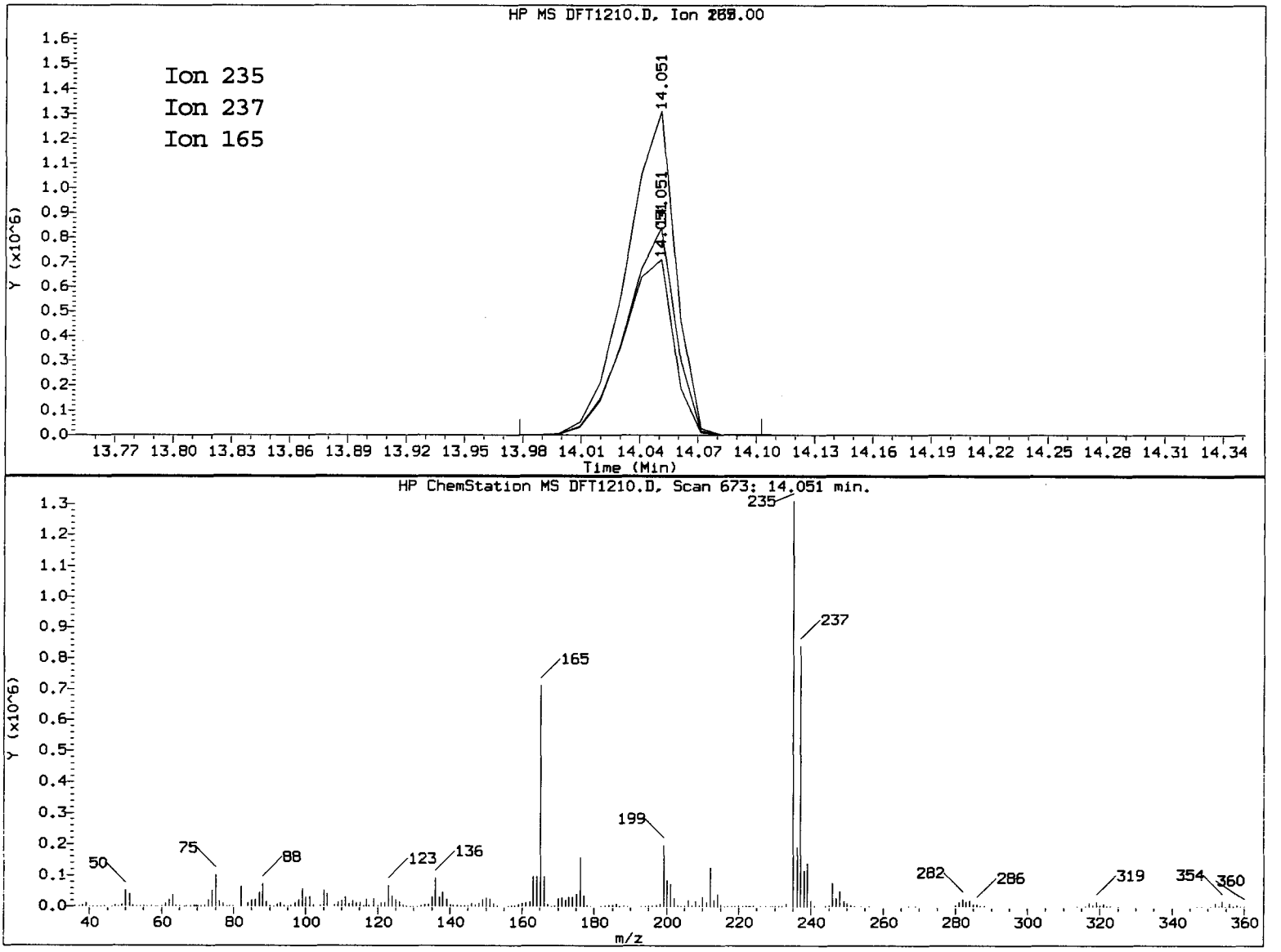
Time1 = 11.98446 Time2 = 12.02993 Time3 = 12.04737
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.383 Maximum Allowed = 3.0

Report Date: 12/13/2010 10:19

Datafile Analyzed: //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D
Method Used: \\SV5\C\chem\sv5.i\121010.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 10-DEC-2010 14:24 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

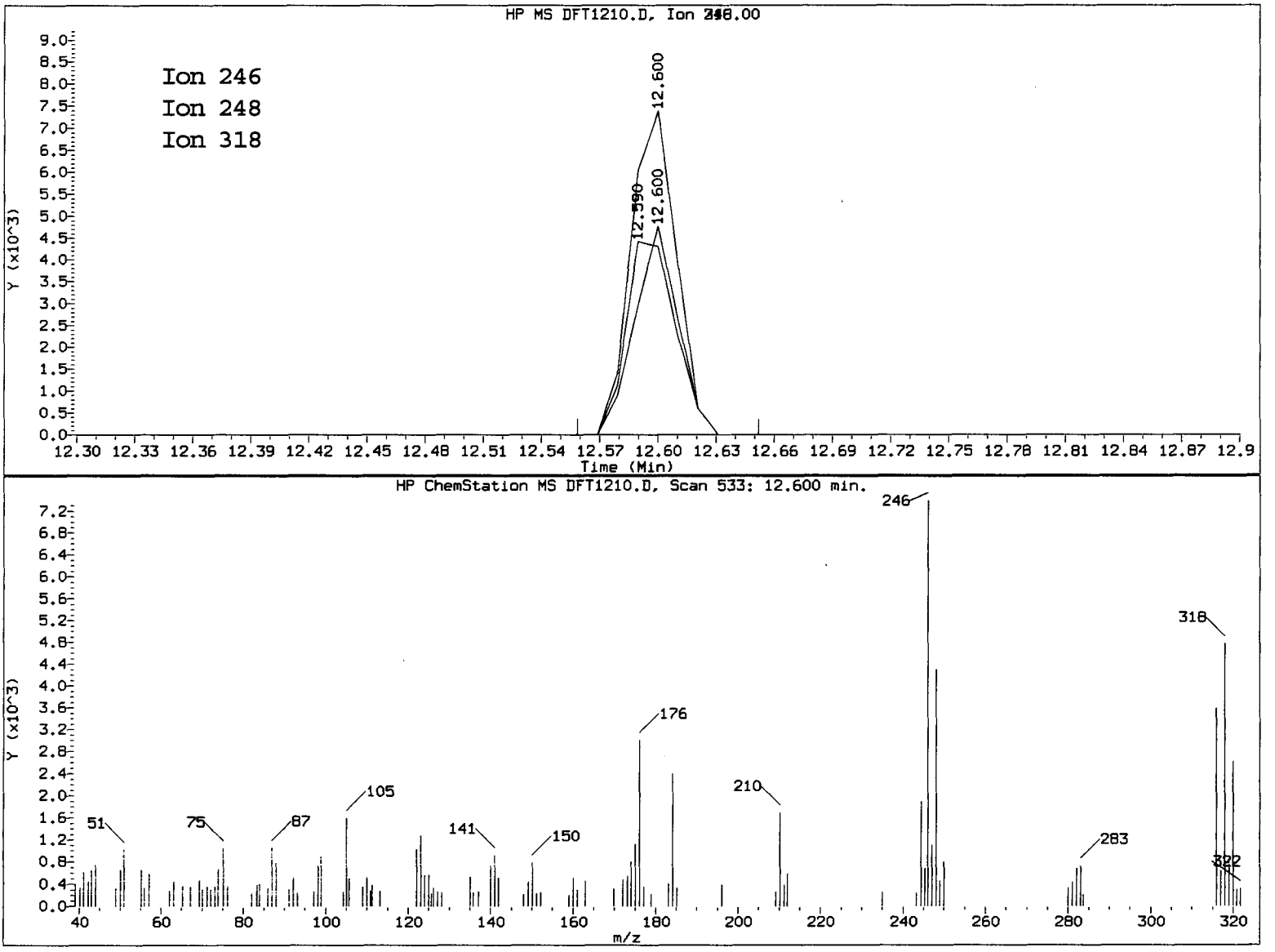


4,4'-DDT
========
Exp. RT = 14.134
Found RT = 14.051

Mass	Area	Ratio
235	2290679	100.00
237	1469558	64.15
165	1303876	56.92

Report Date: 12/13/2010 10:19

Datafile Analyzed: //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D
Method Used: \\SV5\C\chem\sv5.i\121010.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 10-DEC-2010 14:24 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

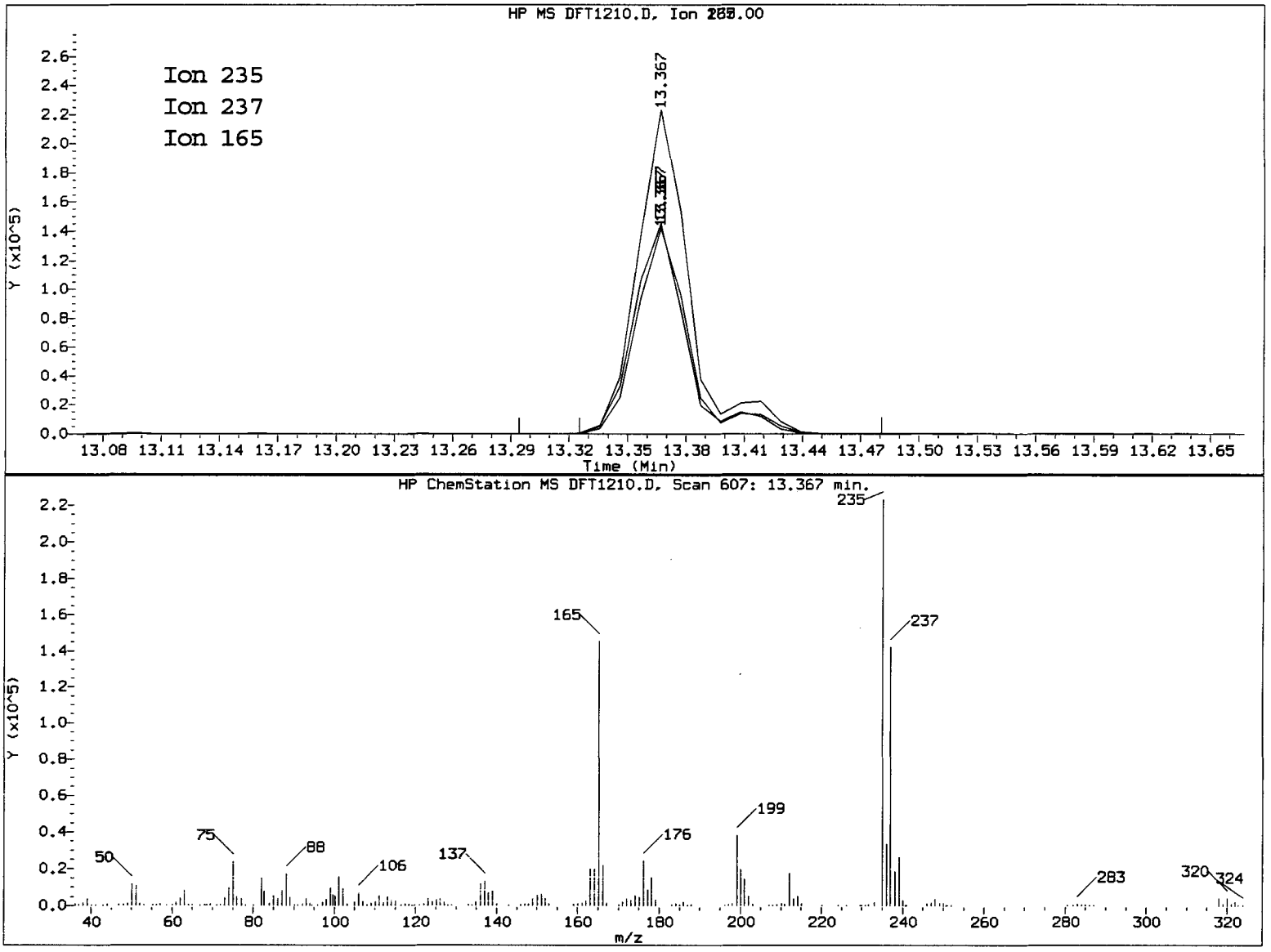


4,4'-DDE
========
Exp. RT = 12.683
Found RT = 12.600

Mass	Area	Ratio
246	12017	100.00
248	7879	65.57
318	7370	61.33

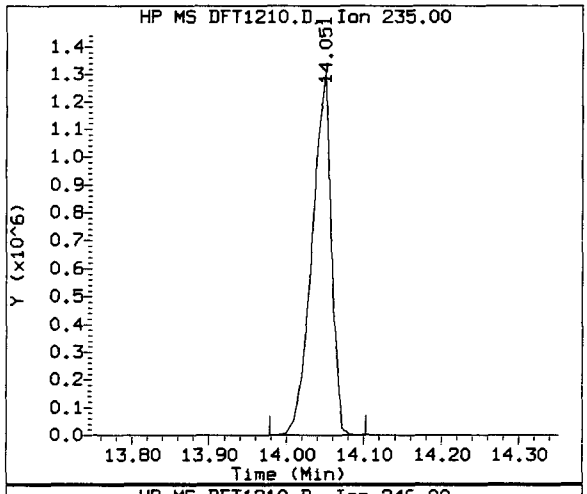
Report Date: 12/13/2010 10:19

Datafile Analyzed: //SV5/C/chem/sv5.i/121010.B/DFT1210.D/DFT1210.D
Method Used: \\SV5\C\chem\sv5.i\121010.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 10-DEC-2010 14:24 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

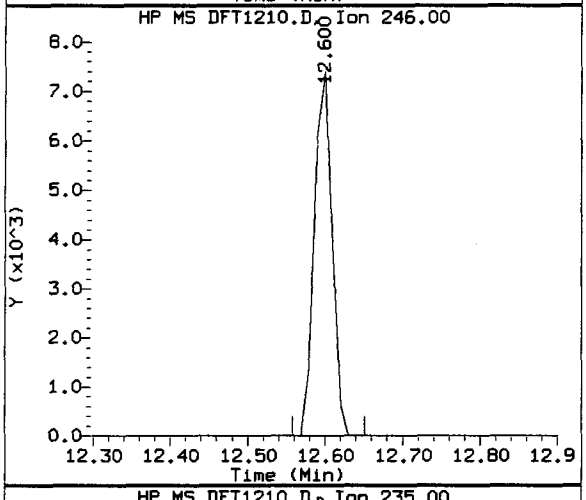


4,4'-DDD
========
Exp. RT = 13.450
Found RT = 13.367

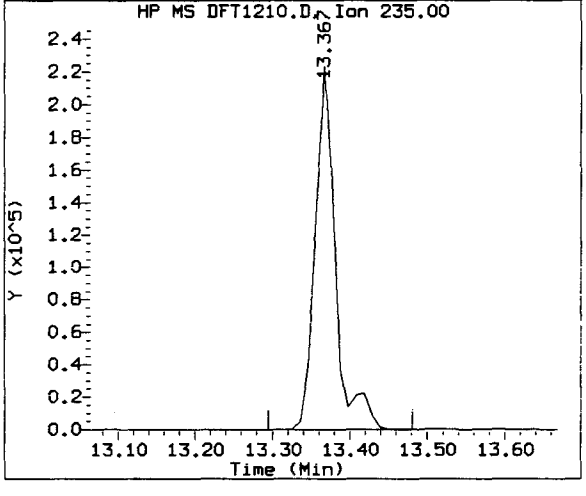
Mass	Area	Ratio
235	413229	100.00
237	266082	64.39
165	271661	65.74



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.051
Area: 2290679



Compound: 4,4'-DDE
Quant Mass: 246
RT: 12.600
Area: 12017



Compound: 4,4'-DDD
Quant Mass: 235
RT: 13.367
Area: 413229

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	425246	15.7	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\121010.B\DFT1210.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 10-DEC-2010 14:24
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment :
Method : \\SV5\C\chem\sv5.i\121010.B\DFTPP.m
Meth Date : 08-Dec-2010 09:15 onishim Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: SV5

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.019	10.092	(0.000)	198	843392			0.00- 100.00	93.51
10.019	10.092	(0.000)	51	368512			30.00- 60.00	43.69
10.019	10.092	(0.000)	68	5036			0.00- 2.00	1.54
10.019	10.092	(0.000)	69	327232			0.00- 0.00	38.80
10.019	10.092	(0.000)	70	1611			0.00- 2.00	0.49
10.019	10.092	(0.000)	127	465600			40.00- 60.00	55.21
10.019	10.092	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
10.019	10.092	(0.000)	199	56680			5.00- 9.00	6.72
10.019	10.092	(0.000)	275	195392			10.00- 30.00	23.17
10.019	10.092	(0.000)	365	28352			1.00- 0.00	3.36
10.019	10.092	(0.000)	441	128776			0.01- 99.99	75.00
10.019	10.092	(0.000)	442	901952			40.00- 0.00	106.94
10.019	10.092	(0.000)	443	171712			17.00- 23.00	19.04

Data File: \\SV5\C\chem\sv5.i\121010.B\DFT1210.D

Date : 10-DEC-2010 14:24

Client ID:

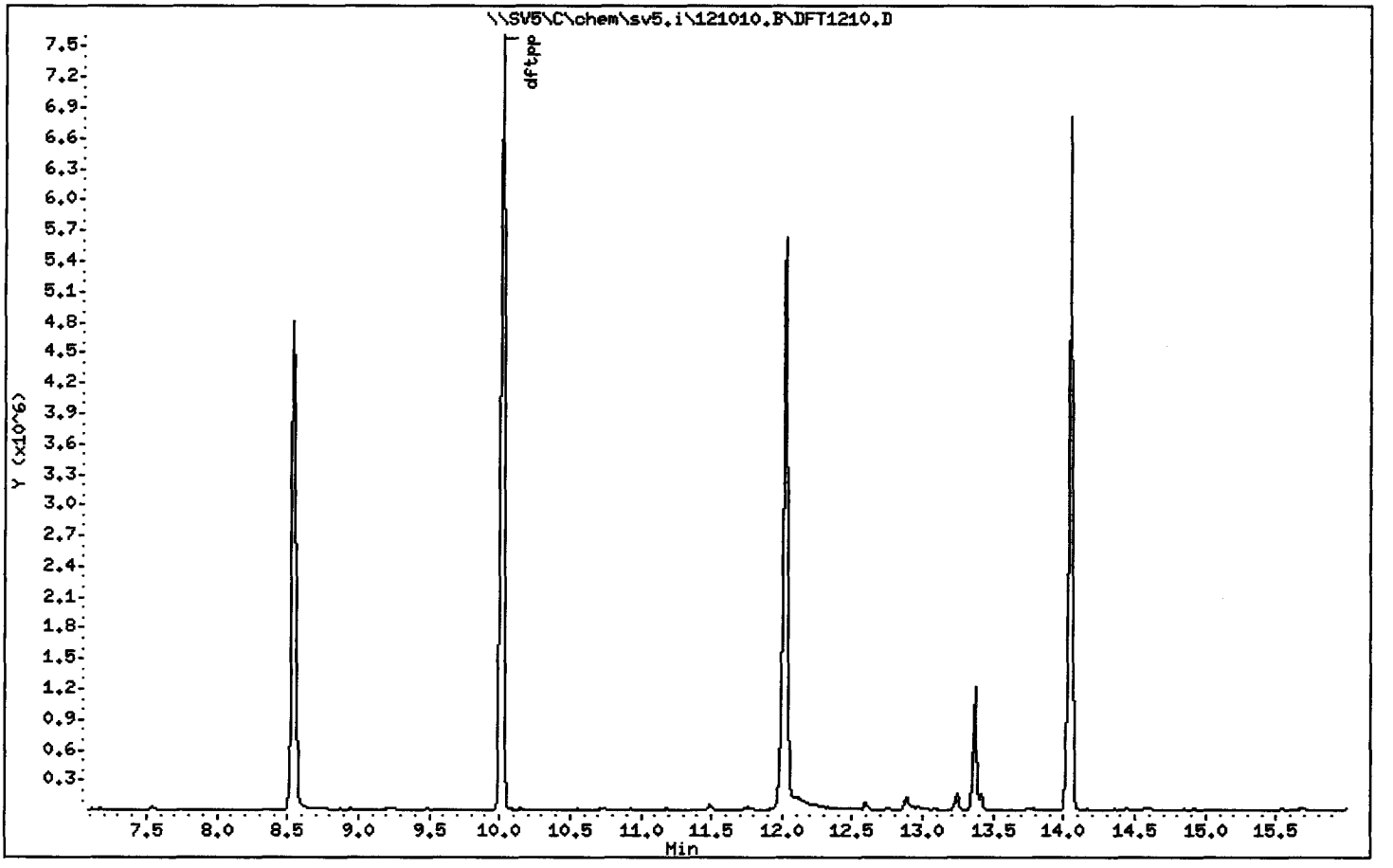
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121010.B\DFT1210.D

Date : 10-DEC-2010 14:24

Client ID:

Instrument: sv5.i

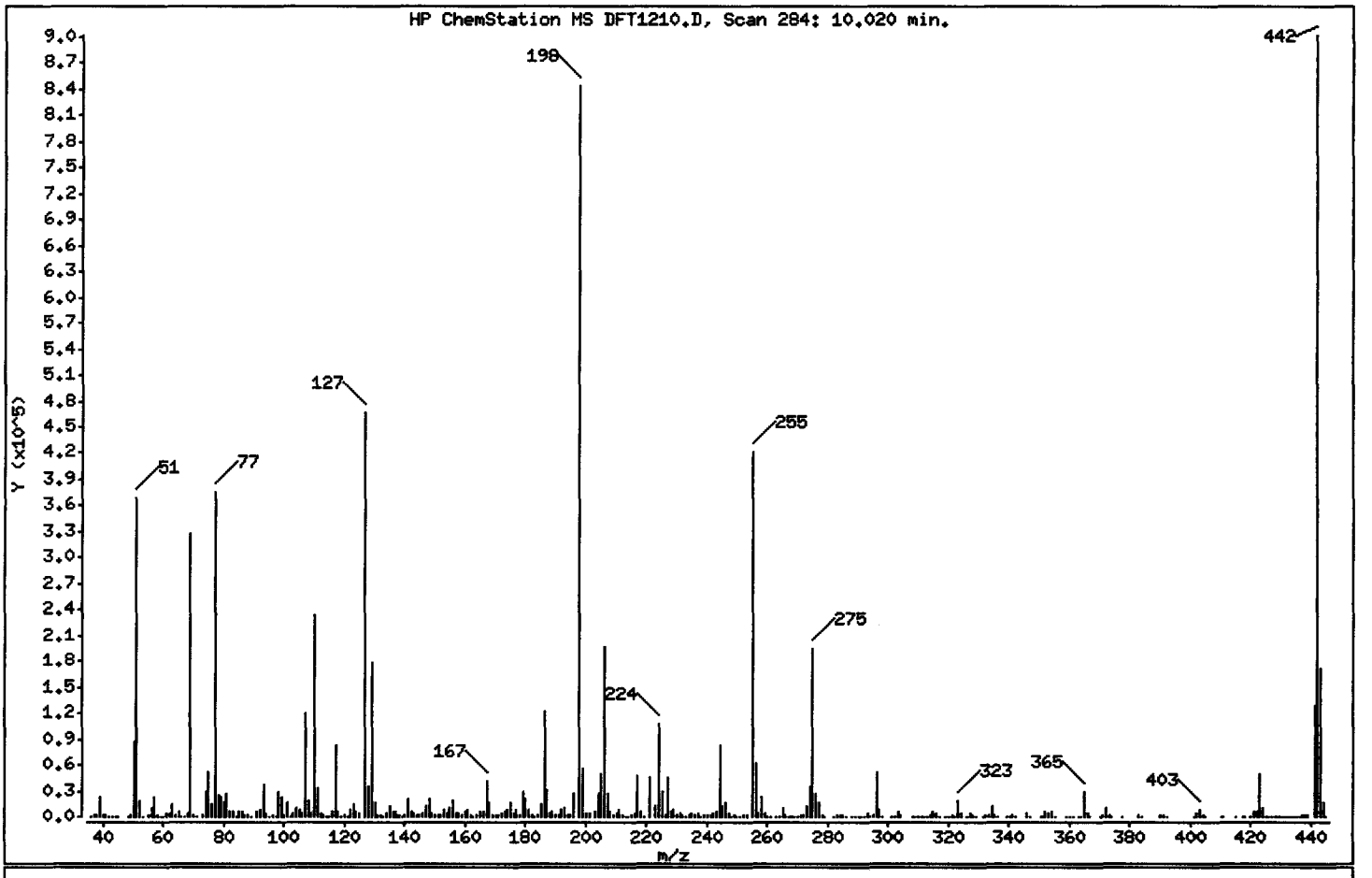
Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.69
68	Less than 2.00% of mass 69	0.60 (1.54)
69	Mass 69 relative abundance	38.80
70	Less than 2.00% of mass 69	0.19 (0.49)
127	40.00 - 60.00% of mass 198	55.21
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.72
275	10.00 - 30.00% of mass 198	23.17
365	Greater than 1.00% of mass 198	3.36
441	Present, but less than mass 443	15.27
442	Greater than 40.00% of mass 198	106.94
443	17.00 - 23.00% of mass 442	20.36 (19.04)

Date : 10-DEC-2010 14:24

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1210.D
Spectrum: HP ChemStation MS DFT1210.D, Scan 284: 10.020 min.
Location of Maximum: 442.00
Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	305	131.00	2084	219.00	631	319.10	593
37.10	1133	132.10	2137	221.00	45520	320.10	335
38.00	2937	132.90	851	223.00	12970	321.00	2510
39.10	22688	134.00	4194	224.00	108368	322.00	959
40.00	1256	135.00	13040	225.10	28520	323.10	19488
41.00	1574	136.00	5223	226.10	2763	324.10	4389
42.10	243	137.00	6446	227.00	46176	326.10	439
43.10	470	137.70	1337	228.00	6021	327.00	3482
44.10	664	138.00	1494	229.00	8452	328.00	1511
45.00	419	139.00	860	230.00	1153	329.00	334
48.40	486	140.00	2286	231.00	3680	331.20	250
49.10	2558	141.00	20792	232.00	1390	332.10	1951
50.10	87184	142.00	6944	233.10	819	333.00	1503
51.10	368512	143.00	4778	233.90	2185	334.10	12158
52.10	18536	144.10	1587	235.00	3178	335.10	2793
53.20	819	144.90	1493	235.90	1651	336.10	449
55.00	2013	146.00	3614	237.00	3158	339.10	464
56.00	9768	147.00	11967	237.90	677	340.10	646
57.00	23376	148.00	21704	239.10	1852	341.10	2796
58.00	1262	149.00	4043	240.10	1673	342.10	908
59.00	215	150.00	1119	241.00	2374	346.00	4103
60.00	470	151.10	2662	242.10	5102	346.80	511
61.00	4090	151.70	1322	243.10	6720	350.60	374
62.00	3766	152.00	1440	244.00	82760	351.10	661
63.00	13572	153.00	7738	245.10	11689	352.00	5548
64.10	1601	154.10	5018	246.00	16568	353.00	4135
65.10	5896	155.00	10977	247.00	3329	354.10	6636
66.00	557	156.00	18344	248.00	796	355.10	768
67.10	505	157.10	4083	249.00	3070	358.90	598
68.00	5036	158.00	3900	249.90	908	360.30	260
69.00	327232	159.00	2577	251.00	920	361.10	202
70.10	1611	160.00	6728	252.10	1318	362.80	318
71.20	572	161.00	9274	253.00	2812	363.00	321
73.00	2490	162.10	2352	255.00	419904	363.60	305
74.00	29744	162.80	588	256.00	61192	365.00	28352

Date : 10-DEC-2010 14:24

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1210.D
Spectrum: HP ChemStation MS DFT1210.D, Scan 284: 10.020 min.
Location of Maximum: 442.00
Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	50848	164.00	1360	257.00	4379	366.00	3532
76.10	14827	165.00	7213	258.00	22424	366.90	450
77.10	375040	166.10	6300	259.10	3315	370.00	659
78.10	24184	167.00	41712	260.00	689	371.00	2096
79.00	22928	168.00	15560	261.00	456	372.00	10639
80.00	16392	169.00	2742	262.80	217	373.00	2706
81.00	26000	170.00	1251	264.10	725	374.00	575
82.00	6768	171.00	1816	265.00	10254	377.10	383
83.00	6612	172.00	3438	266.00	1391	383.00	2937
84.10	664	173.10	5399	267.10	341	384.10	772
85.00	5334	174.10	7650	267.80	442	390.10	1454
86.00	6364	175.10	16384	268.40	278	390.90	1222
87.00	2959	176.10	4917	268.90	306	392.10	791
88.10	1089	177.00	8614	269.90	425	401.00	878
89.00	868	178.00	2156	270.90	1084	402.00	4828
91.10	5842	179.00	29496	272.00	1528	403.00	7568
92.00	7536	180.00	20424	273.00	13128	404.00	1775
93.00	38176	181.00	8605	274.00	34592	404.70	316
94.00	3388	182.00	1430	275.00	195392	410.10	370
95.10	709	183.00	764	276.00	27840	410.80	213
96.10	1787	184.00	2803	277.00	16968	415.10	349
97.20	900	185.00	15023	278.00	2555	417.30	223
98.00	28736	186.10	122336	279.10	393	417.70	228
99.00	23816	187.10	31904	282.10	500	419.80	239
100.00	2608	188.00	3217	283.10	1212	421.00	6202
101.00	15588	189.00	6672	284.00	1342	422.00	5951
102.00	832	190.00	1378	285.10	2399	423.00	50008
103.00	4855	191.00	3048	285.80	582	424.00	10133
104.00	10197	192.00	9006	288.10	230	425.00	963
105.00	8873	193.10	9394	289.00	860	426.00	259
106.10	3715	194.00	2347	290.00	498	427.00	249
107.00	119472	195.00	1723	291.00	557	427.80	309
108.00	18760	196.00	26008	292.10	868	428.60	467
109.10	3970	198.00	843392	293.00	3650	429.40	441
110.00	233280	199.00	56680	294.10	894	430.00	226

Date : 10-DEC-2010 14:24

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1210.D
Spectrum: HP ChemStation MS DFT1210.D, Scan 284: 10.020 min.
Location of Maximum: 442.00
Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	32680	200.00	3591	295.10	1426	430.50	635
112.10	3897	201.50	3719	296.00	51688	431.00	621
113.00	1838	203.00	5657	297.00	7355	431.40	381
114.00	372	204.00	26584	297.90	480	432.10	461
115.00	406	205.00	49432	301.10	927	432.60	610
116.00	6862	206.10	196864	302.00	987	433.60	205
117.00	82376	207.10	27520	303.10	6190	434.70	1012
118.00	5415	208.00	6031	304.00	2092	435.20	682
119.00	804	209.10	1694	307.90	680	436.40	631
120.00	1506	210.00	3279	309.00	740	437.30	1310
121.10	874	211.10	7670	309.80	410	437.90	1290
122.00	8218	212.00	1496	310.20	466	438.50	2163
123.00	13669	213.10	437	310.90	203	439.10	1344
124.00	5212	213.70	234	311.90	355	441.00	128776
125.00	4345	214.10	282	313.10	867	442.00	901952
127.00	465600	215.00	2015	314.00	2923	443.00	171712
128.00	34656	216.00	4075	315.00	5839	444.00	15720
129.00	177920	217.00	48264	316.10	3714	445.00	757
130.00	16074	218.00	5658	317.10	745		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\S121007.D
Lab Smp Id: MA3AJ1AA G0L080000- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 17:44
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AA G0L080000-383B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.491	3.490	(1.000)	126121	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	543739	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	288736	40.0000	
* 4	Phenanthrene-d10	188	8.828	8.827	(1.000)	485004	40.0000	
* 5	Chrysene-d12	240	13.087	13.097	(1.000)	472612	40.0000	
* 6	Perylene-d12	264	15.450	15.449	(1.000)	488110	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	316139	71.1141	71.11
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	428841	76.7131	76.71
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	113039	36.3922	36.39(q)
$ 11	Nitrobenzene-d5	82	4.112	4.123	(0.839)	179361	38.9458	38.94
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	368326	39.6004	39.60
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	121229	96.6226	96.62
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	398117	42.7660	42.76
108	Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/13/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AA G0L080000- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121010.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.11	71.11	41-105
$ 8 Phenol-d5	100.0	76.71	76.71	43-122
$ 10 1,2-Dichlorobenzen	50.00	36.39	72.78	60-120
$ 11 Nitrobenzene-d5	50.00	38.94	77.89	46-118
$ 12 2-Fluorobiphenyl	50.00	39.60	79.20	58-105
$ 13 2,4,6-Tribromophen	100.0	96.62	96.62	61-118
$ 14 Terphenyl-d14	50.00	42.76	85.53	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\S121007.D
Lab Smp Id: MA3AJ1AA G0L080000- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 17:44
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AA G0L080000-383B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270F.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.491	3.490	(1.000)	126121	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	543739	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	288736	40.0000	
* 4	Phenanthrene-d10	188	8.828	8.827	(1.000)	485004	40.0000	
* 5	Chrysene-d12	240	13.087	13.097	(1.000)	472612	40.0000	
* 6	Perylene-d12	264	15.450	15.449	(1.000)	488110	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	316139	71.1141	71.11
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	428841	76.7131	76.71
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	113039	36.3922	36.39(q)
$ 11	Nitrobenzene-d5	82	4.112	4.123	(0.839)	179361	38.9458	38.94
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	368326	39.6004	39.60
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	121229	96.6226	96.62
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	398117	42.7660	42.76
108	Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121007.D
Lab Smp Id: MA3AJ1AA G0L080000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

Calibration Date: 10-DEC-2010
Calibration Time: 14:02
Client Smp ID: 0342383
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	126121	2.85
2 Naphthalene-d8	530514	265257	1061028	543739	2.49
3 Acenaphthene-d10	282538	141269	565076	288736	2.19
4 Phenanthrene-d10	462722	231361	925444	485004	4.82
5 Chrysene-d12	435850	217925	871700	472612	8.43
6 Perylene-d12	422284	211142	844568	488110	15.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.09	-0.08
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

TestAmerica West Sacramento

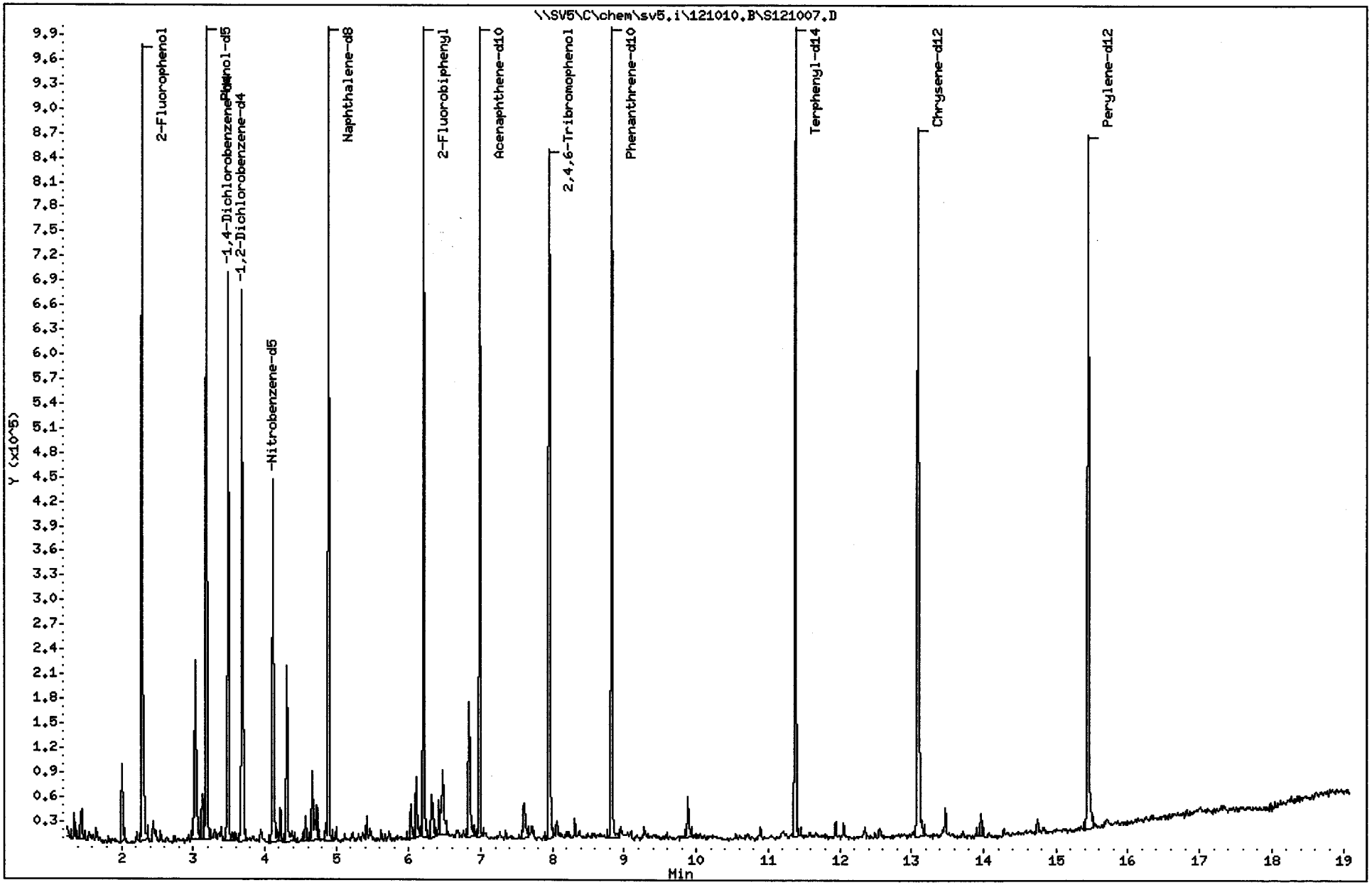
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AA G0L080000- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.11	71.11	41-105
$ 8 Phenol-d5	100.0	76.71	76.71	43-122
$ 10 1,2-Dichlorobenzen	50.00	36.39	72.78	60-120
$ 11 Nitrobenzene-d5	50.00	38.94	77.89	46-118
$ 12 2-Fluorobiphenyl	50.00	39.60	79.20	58-105
$ 13 2,4,6-Tribromophen	100.0	96.62	96.62	61-118
$ 14 Terphenyl-d14	50.00	42.76	85.53	69-110

Data File: \\SV5\C\chem\sv5.i\121010.B\S121007.D
Date : 10-DEC-2010 17:44
Client ID: 0342383
Sample Info: MA3AJ1AA G0L080000-383B;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

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



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\S121008.D
Lab Smp Id: MA3AJ1AC G0L080000-
Inj Date : 10-DEC-2010 18:09
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AC G0L080000-383C;3;LCS;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	104680	40.0000		(q)
* 2 Naphthalene-d8	136	4.900	4.900	(1.000)	452944	40.0000		
* 3 Acenaphthene-d10	164	6.983	6.983	(1.000)	242003	40.0000		
* 4 Phenanthrene-d10	188	8.827	8.827	(1.000)	413124	40.0000		
* 5 Chrysene-d12	240	13.097	13.097	(1.000)	430850	40.0000		
* 6 Perylene-d12	264	15.449	15.449	(1.000)	430281	40.0000		
$ 7 2-Fluorophenol	112	2.288	2.288	(0.656)	281137	76.1938	76.19	
$ 8 Phenol-d5	99	3.190	3.180	(0.914)	381978	82.3257	82.32	
$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11 Nitrobenzene-d5	82	4.123	4.123	(0.841)	156447	40.7799	40.78	
$ 12 2-Fluorobiphenyl	172	6.206	6.206	(0.889)	336006	43.1017	43.10	
$ 13 2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	105446	100.273	100.3	
$ 14 Terphenyl-d14	244	11.377	11.377	(0.869)	340533	40.1260	40.12	
108 Hexachlorobenzene	284	8.434	8.434	(0.955)	199300	88.4910	88.49	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/13/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AC G0L080000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCS
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121010.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	88.49	88.49	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	76.19	76.19	41-105
$ 8 Phenol-d5	100.0	82.32	82.33	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	40.78	81.56	46-118
$ 12 2-Fluorobiphenyl	50.00	43.10	86.20	58-105
$ 13 2,4,6-Tribromophen	100.0	100.3	100.27	61-118
$ 14 Terphenyl-d14	50.00	40.12	80.25	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\S121008.D
Lab Smp Id: MA3AJ1AC G0L080000-
Inj Date : 10-DEC-2010 18:09
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AC G0L080000-383C;3;LCS;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270F.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	104680	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	452944	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	242003	40.0000	
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	413124	40.0000	
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	430850	40.0000	
* 6	Perylene-d12	264	15.449	15.449	(1.000)	430281	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	281137	76.1938	76.19
$ 8	Phenol-d5	99	3.190	3.180	(0.914)	381978	82.3257	82.32
$ 10	1,2-Dichlorobenzene-d4	152	3.698	3.687	(1.059)	168	0.06516	0.06516(QR)
$ 11	Nitrobenzene-d5	82	4.123	4.123	(0.841)	156447	40.7799	40.78
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	336006	43.1017	43.10
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	105446	100.273	100.3
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	340533	40.1260	40.12
108	Hexachlorobenzene	284	8.434	8.434	(0.955)	199300	88.4910	88.49

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121008.D
Lab Smp Id: MA3AJ1AC G0L080000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 10-DEC-2010
Calibration Time: 14:02
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	104680	-14.63
2 Naphthalene-d8	530514	265257	1061028	452944	-14.62
3 Acenaphthene-d10	282538	141269	565076	242003	-14.35
4 Phenanthrene-d10	462722	231361	925444	413124	-10.72
5 Chrysene-d12	435850	217925	871700	430850	-1.15
6 Perylene-d12	422284	211142	844568	430281	1.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.10	0.00
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

TestAmerica West Sacramento

RECOVERY REPORT

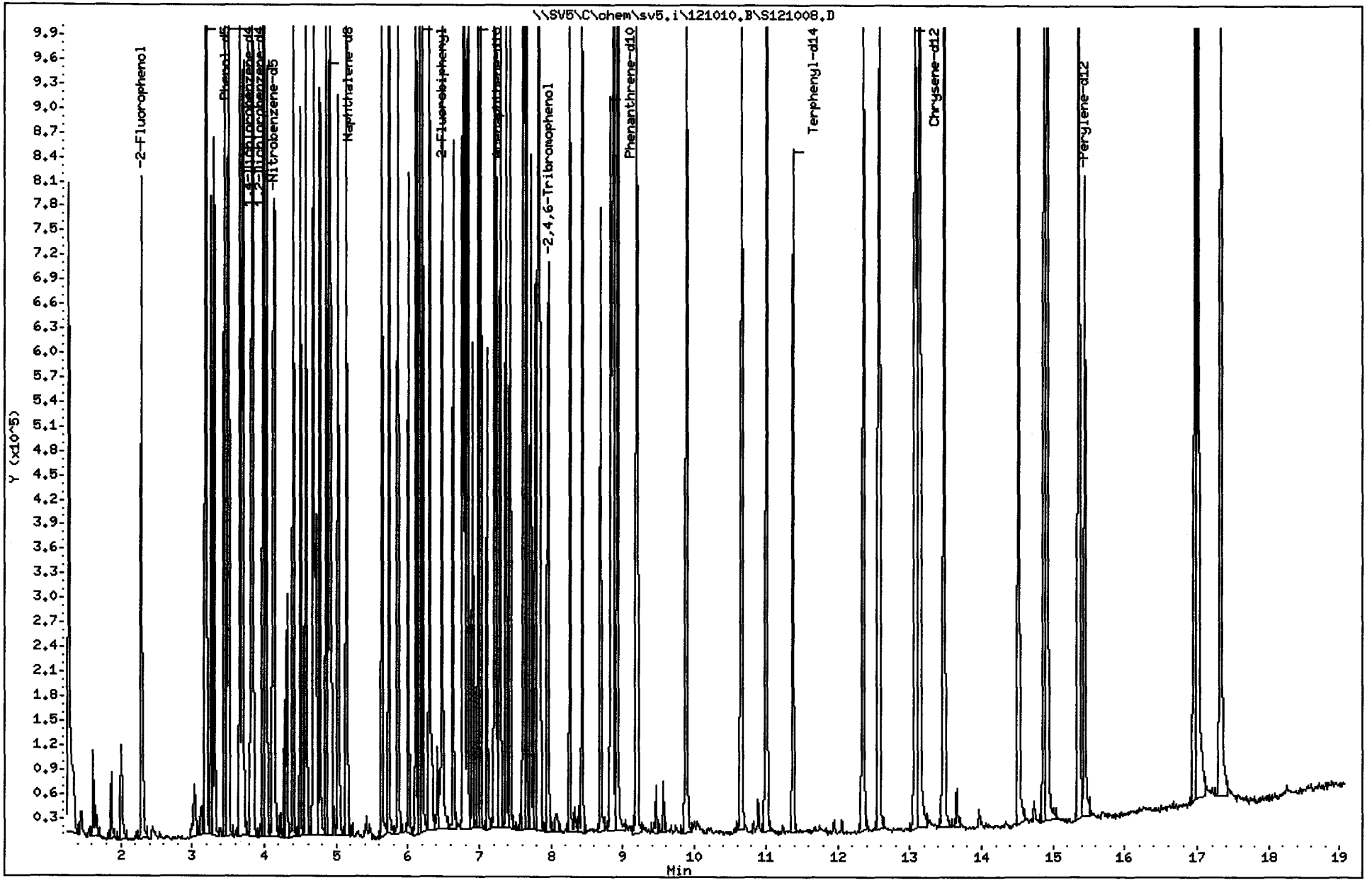
Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AC G0L080000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCS
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	88.49	88.49	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	76.19	76.19	41-105
$ 8 Phenol-d5	100.0	82.32	82.33	43-122
$ 10 1,2-Dichlorobenzen	50.00	0.06516	0.13*	60-120
$ 11 Nitrobenzene-d5	50.00	40.78	81.56	46-118
$ 12 2-Fluorobiphenyl	50.00	43.10	86.20	58-105
$ 13 2,4,6-Tribromophen	100.0	100.3	100.27	61-118
$ 14 Terphenyl-d14	50.00	40.12	80.25	69-110

Data File: \\SV5\C\chem\sv5.i\121010.B\S121008.D
Date : 10-DEC-2010 18:09
Client ID:
Sample Info: MA3AJ1AC G0L080000-383C:3:LCS;;1000;;1000;2
Volume Injected (uL): 1.0
Column phase:

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



Data File: \\SV5\C\chem\sv5.i\121010.B\S121008.D

Date : 10-DEC-2010 18:09

Client ID:

Instrument: sv5.i

Sample Info: MA3AJ1AC G0L080000-383C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

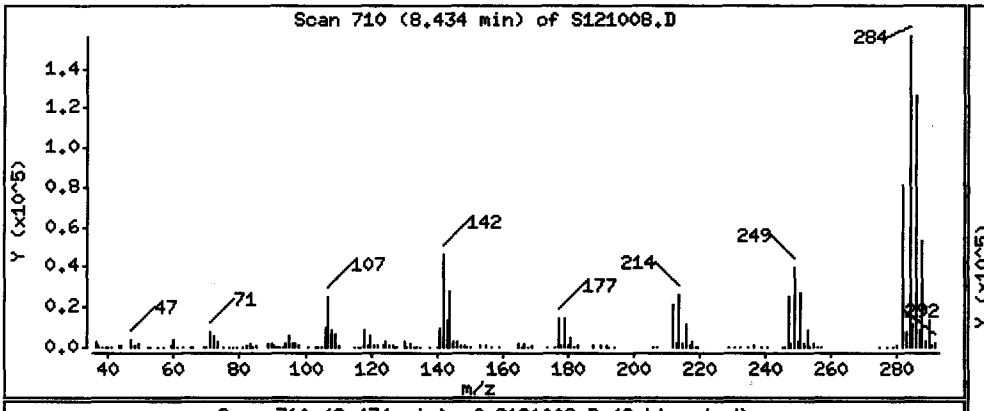
Operator: KT

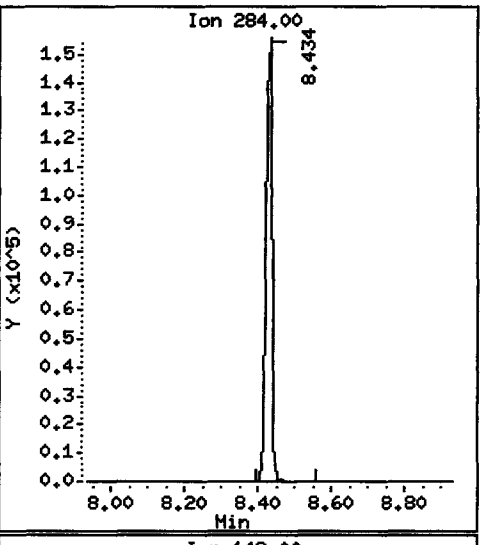
Column phase:

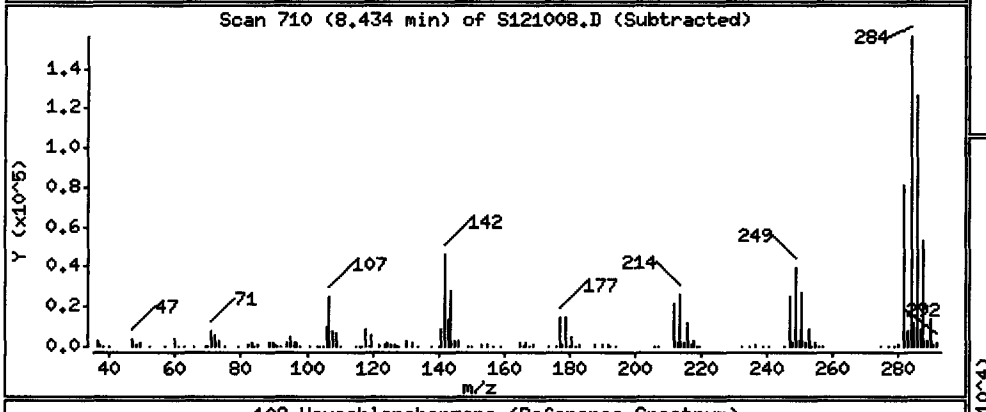
Column diameter: 2.00

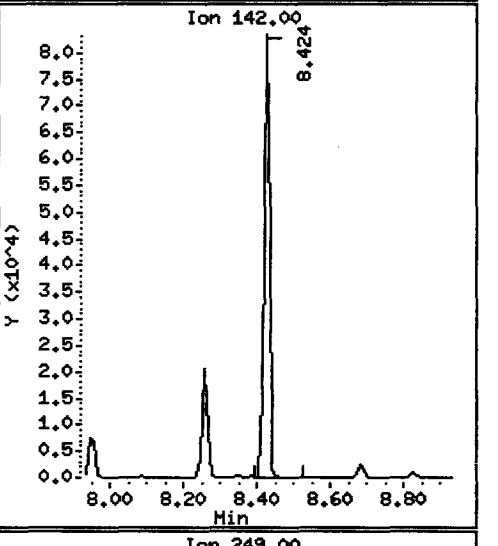
108 Hexachlorobenzene

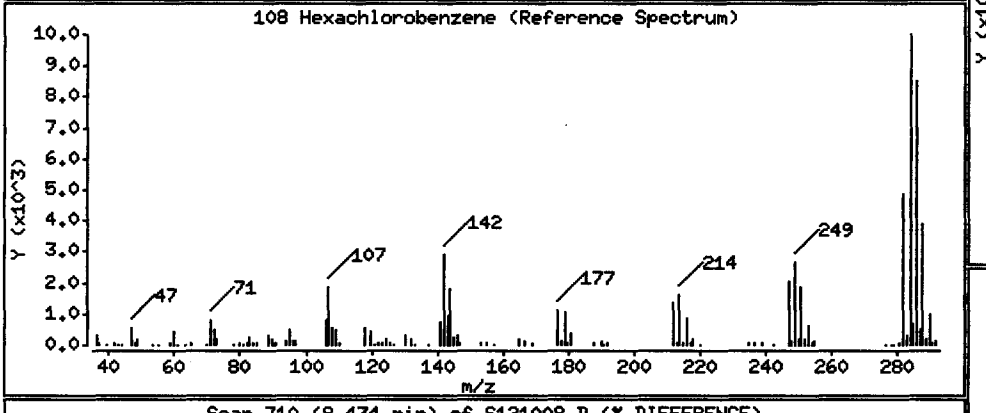
Concentration: 88.49 ug/L

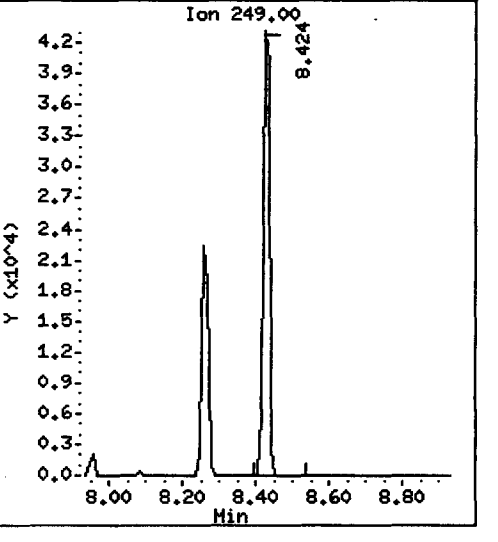


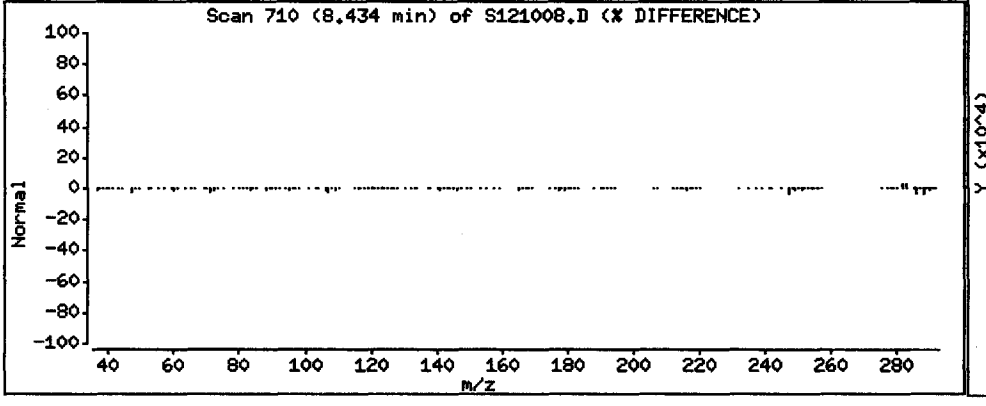












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\S121009.D
Lab Smp Id: MA3AJ1AD G0L080000-
Inj Date : 10-DEC-2010 18:33
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AD G0L080000-383L;3;LCSD;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	92882	40.0000		(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	389479	40.0000		
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	214166	40.0000		
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	373789	40.0000		
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	393544	40.0000		
* 6	Perylene-d12	264	15.449	15.449	(1.000)	403314	40.0000		
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	245821	75.0849	75.08	
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	325847	79.1486	79.15	
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11	Nitrobenzene-d5	82	4.123	4.123	(0.841)	137188	41.5868	41.59	
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	287859	41.7251	41.72	
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	95149	102.241	102.2	
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	317643	40.9768	40.98	
108	Hexachlorobenzene	284	8.423	8.434	(0.954)	179646	88.1583	88.16	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/13/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AD G0L080000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCSD
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121010.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	88.16	88.16	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	75.08	75.08	41-105
$ 8 Phenol-d5	100.0	79.15	79.15	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	41.59	83.17	46-118
$ 12 2-Fluorobiphenyl	50.00	41.72	83.45	58-105
$ 13 2,4,6-Tribromophen	100.0	102.2	102.24	61-118
$ 14 Terphenyl-d14	50.00	40.98	81.95	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\S121009.D
Lab Smp Id: MA3AJ1AD G0L080000-
Inj Date : 10-DEC-2010 18:33
Operator : KT Inst ID: sv5.i
Smp Info : MA3AJ1AD G0L080000-383L;3;LCSD;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270F.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	92882	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	389479	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	214166	40.0000	
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	373789	40.0000	
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	393544	40.0000	
* 6	Perylene-d12	264	15.449	15.449	(1.000)	403314	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	245821	75.0849	75.08
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	325847	79.1486	79.15
$ 10	1,2-Dichlorobenzene-d4	152	3.490	3.687	(1.000)	92882	40.6039	40.60(q)
$ 11	Nitrobenzene-d5	82	4.123	4.123	(0.841)	137188	41.5868	41.59
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	287859	41.7251	41.72
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	95149	102.241	102.2
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	317643	40.9768	40.98
108	Hexachlorobenzene	284	8.423	8.434	(0.954)	179646	88.1583	88.16

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121009.D
Lab Smp Id: MA3AJ1AD G0L080000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 10-DEC-2010
Calibration Time: 14:02
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	92882	-24.26
2 Naphthalene-d8	530514	265257	1061028	389479	-26.58
3 Acenaphthene-d10	282538	141269	565076	214166	-24.20
4 Phenanthrene-d10	462722	231361	925444	373789	-19.22
5 Chrysene-d12	435850	217925	871700	393544	-9.71
6 Perylene-d12	422284	211142	844568	403314	-4.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.10	0.00
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

TestAmerica West Sacramento

RECOVERY REPORT

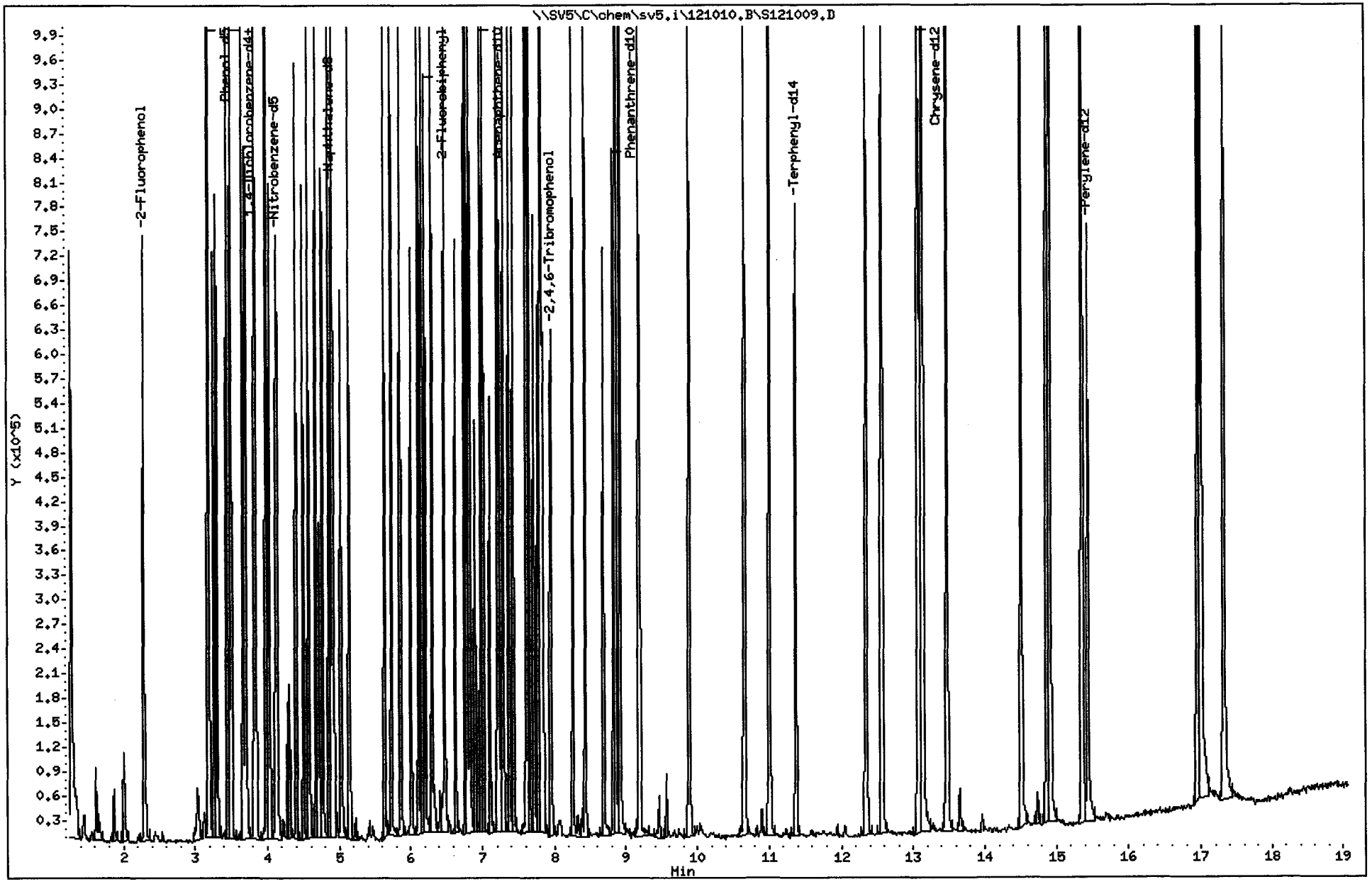
Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA3AJ1AD G0L080000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCSD
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	88.16	88.16	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	75.08	75.08	41-105
$ 8 Phenol-d5	100.0	79.15	79.15	43-122
$ 10 1,2-Dichlorobenzen	50.00	40.60	81.21	60-120
$ 11 Nitrobenzene-d5	50.00	41.59	83.17	46-118
$ 12 2-Fluorobiphenyl	50.00	41.72	83.45	58-105
$ 13 2,4,6-Tribromophen	100.0	102.2	102.24	61-118
$ 14 Terphenyl-d14	50.00	40.98	81.95	69-110

Data File: \\SV5\C\chem\sv5.i\121010.B\S121009.D
Date : 10-DEC-2010 18:33
Client ID:
Sample Info: MA3AJ1AD G0L080000-383L;3;LCSD;;1000;;1000;2
Volume Injected (uL): 1.0
Column phase:

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



Data File: \\SV5\C\chem\sv5.i\121010.B\S121009.D

Date : 10-DEC-2010 18:33

Client ID:

Instrument: sv5.i

Sample Info: MA3AJ1AD G0L080000-383L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

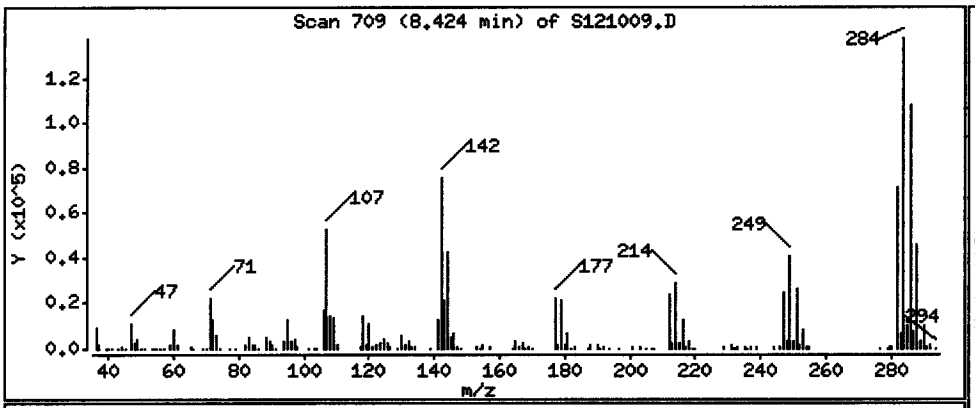
Operator: KT

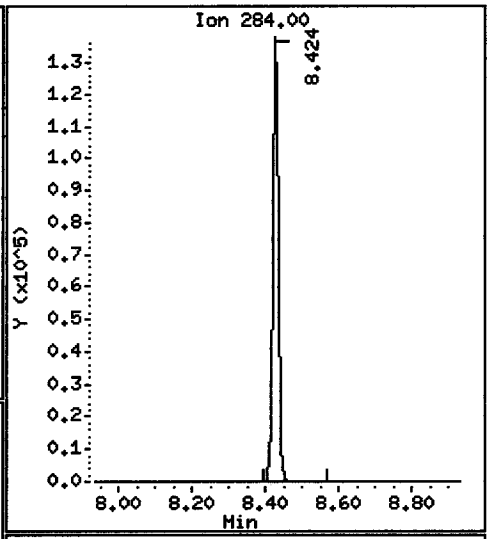
Column phase:

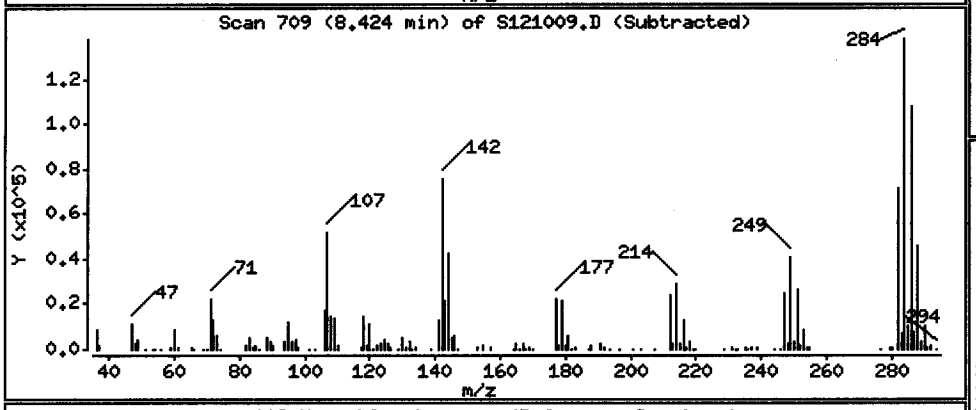
Column diameter: 2.00

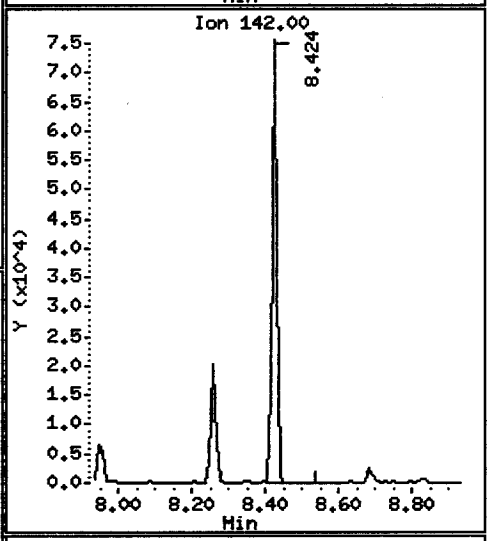
108 Hexachlorobenzene

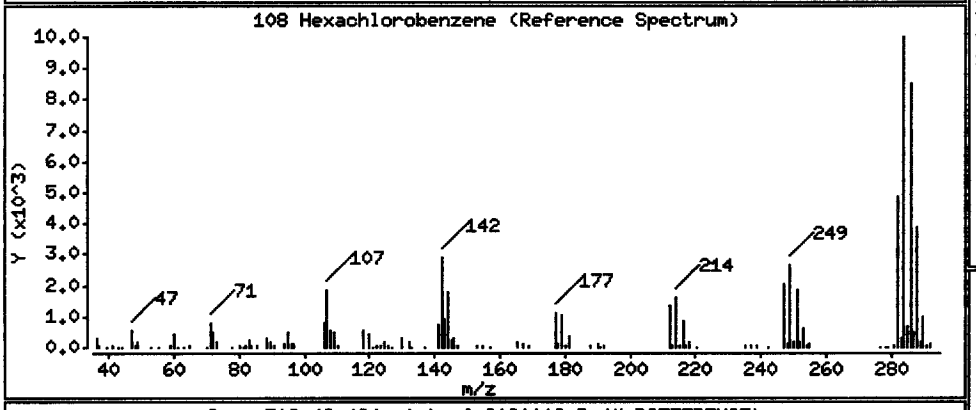
Concentration: 88.16 ug/L

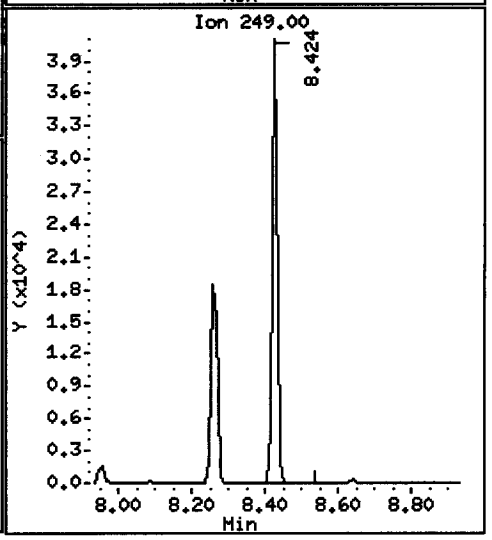


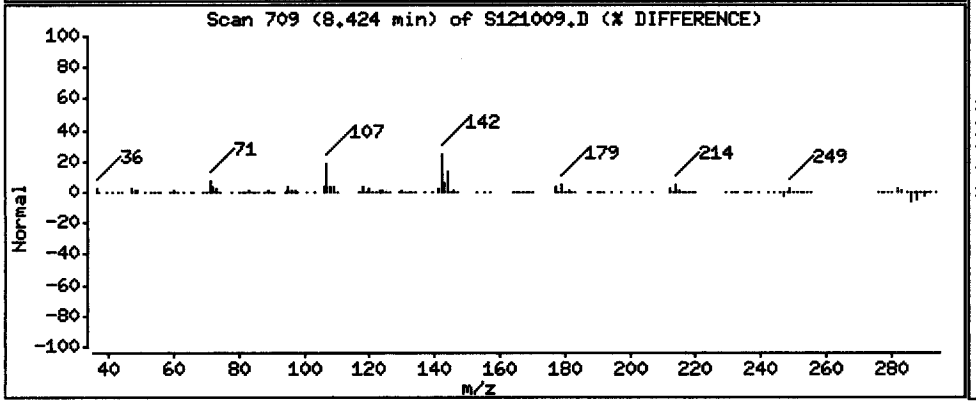












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\S121019.D
Lab Smp Id: MA12A1AA G0L080454- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 22:38
Operator : KT Inst ID: sv5.i
Smp Info : MA12A1AA G0L080454-9;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	107985	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	454740	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	246007	40.0000	
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	414697	40.0000	
* 5	Chrysene-d12	240	13.087	13.097	(1.000)	403924	40.0000	
* 6	Perylene-d12	264	15.449	15.449	(1.000)	397537	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	278099	73.0636	73.06
$ 8	Phenol-d5	99	3.190	3.180	(0.914)	386348	80.7191	80.72
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	84213	31.6653	31.66(q)
$ 11	Nitrobenzene-d5	82	4.123	4.123	(0.841)	157222	40.8201	40.82
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	336279	42.4346	42.43
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	108112	101.135	101.1
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	338894	42.5948	42.59
108	Hexachlorobenzene	284	Compound Not Detected.					

12/13/10

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA12A1AA G0L080454- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121010.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.06	73.06	41-105
$ 8 Phenol-d5	100.0	80.72	80.72	43-122
$ 10 1,2-Dichlorobenzen	50.00	31.66	63.33	60-120
$ 11 Nitrobenzene-d5	50.00	40.82	81.64	46-118
$ 12 2-Fluorobiphenyl	50.00	42.43	84.87	58-105
$ 13 2,4,6-Tribromophen	100.0	101.1	101.13	61-118
$ 14 Terphenyl-d14	50.00	42.59	85.19	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\S121019.D
Lab Smp Id: MA12A1AA G0L080454- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 22:38
Operator : KT Inst ID: sv5.i
Smp Info : MA12A1AA G0L080454-9;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270F.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	107985	40.0000	(q)
* 2 Naphthalene-d8	136	4.900	4.900	(1.000)	454740	40.0000	
* 3 Acenaphthene-d10	164	6.983	6.983	(1.000)	246007	40.0000	
* 4 Phenanthrene-d10	188	8.827	8.827	(1.000)	414697	40.0000	
* 5 Chrysene-d12	240	13.087	13.097	(1.000)	403924	40.0000	
* 6 Perylene-d12	264	15.449	15.449	(1.000)	397537	40.0000	
$ 7 2-Fluorophenol	112	2.288	2.288	(0.656)	278099	73.0636	73.06
$ 8 Phenol-d5	99	3.190	3.180	(0.914)	386348	80.7191	80.72
$ 10 1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	84213	31.6653	31.66(q)
$ 11 Nitrobenzene-d5	82	4.123	4.123	(0.841)	157222	40.8201	40.82
$ 12 2-Fluorobiphenyl	172	6.206	6.206	(0.889)	336279	42.4346	42.43
$ 13 2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	108112	101.135	101.1
$ 14 Terphenyl-d14	244	11.377	11.377	(0.869)	338894	42.5948	42.59
108 Hexachlorobenzene	284	7.978	8.434	(0.904)	264	0.11677	0.1168(aQ)

QC Flag Legend

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

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121019.D
Lab Smp Id: MA12A1AA G0L080454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

Calibration Date: 10-DEC-2010
Calibration Time: 14:02
Client Smp ID: 0342383
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	107985	-11.94
2 Naphthalene-d8	530514	265257	1061028	454740	-14.28
3 Acenaphthene-d10	282538	141269	565076	246007	-12.93
4 Phenanthrene-d10	462722	231361	925444	414697	-10.38
5 Chrysene-d12	435850	217925	871700	403924	-7.32
6 Perylene-d12	422284	211142	844568	397537	-5.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.09	-0.08
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

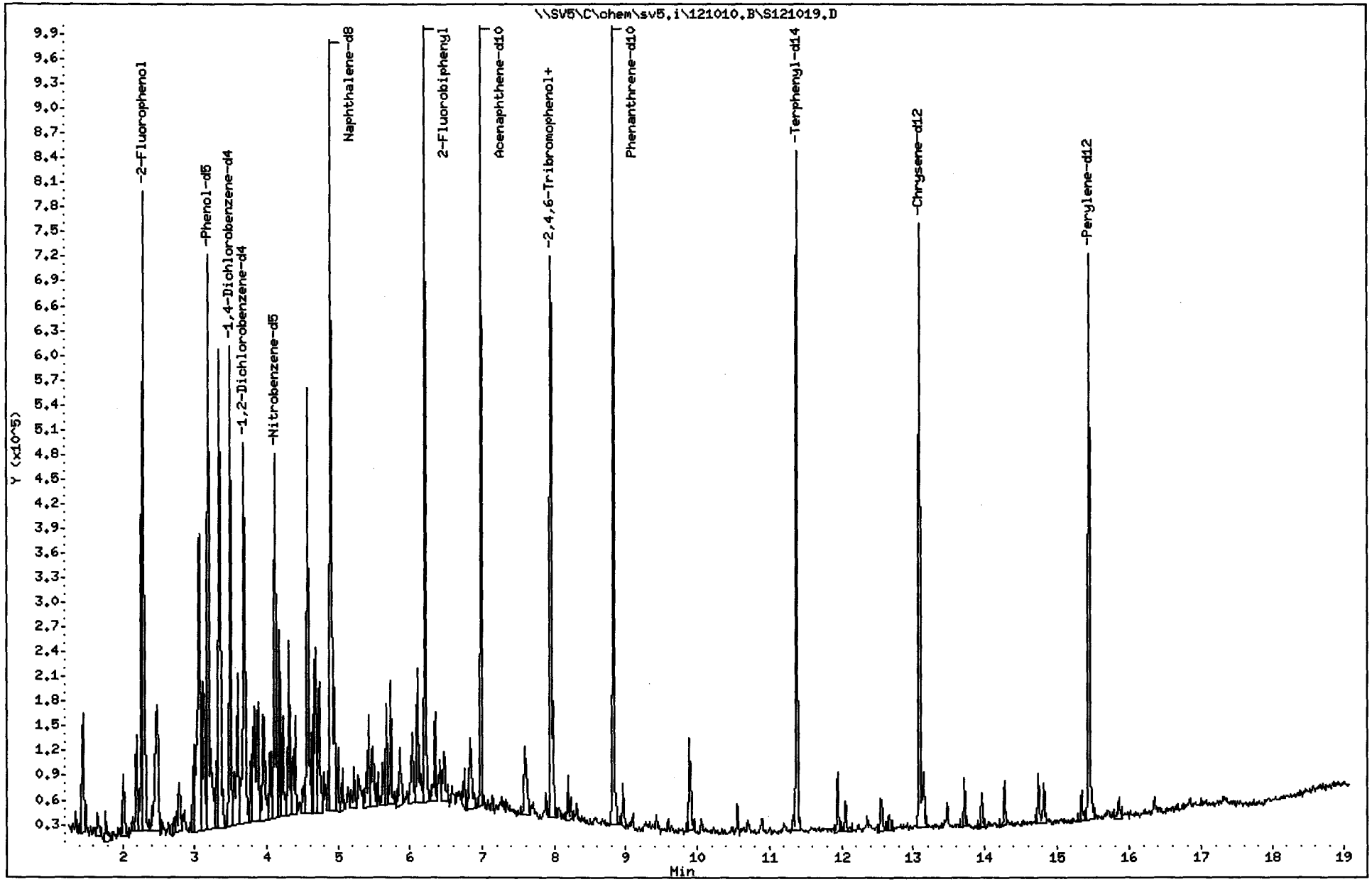
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA12A1AA G0L080454- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.06	73.06	41-105
$ 8 Phenol-d5	100.0	80.72	80.72	43-122
$ 10 1,2-Dichlorobenzen	50.00	31.66	63.33	60-120
$ 11 Nitrobenzene-d5	50.00	40.82	81.64	46-118
$ 12 2-Fluorobiphenyl	50.00	42.43	84.87	58-105
$ 13 2,4,6-Tribromophen	100.0	101.1	101.13	61-118
$ 14 Terphenyl-d14	50.00	42.59	85.19	69-110

Data File: \\SV5\C\chem\sv5.i\121010.B\S121019.D
Date : 10-DEC-2010 22:38
Client ID: 0342383
Instrument: sv5.i
Sample Info: MA12A1AA G0L080454-9;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



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Date : 10-DEC-2010 22:38

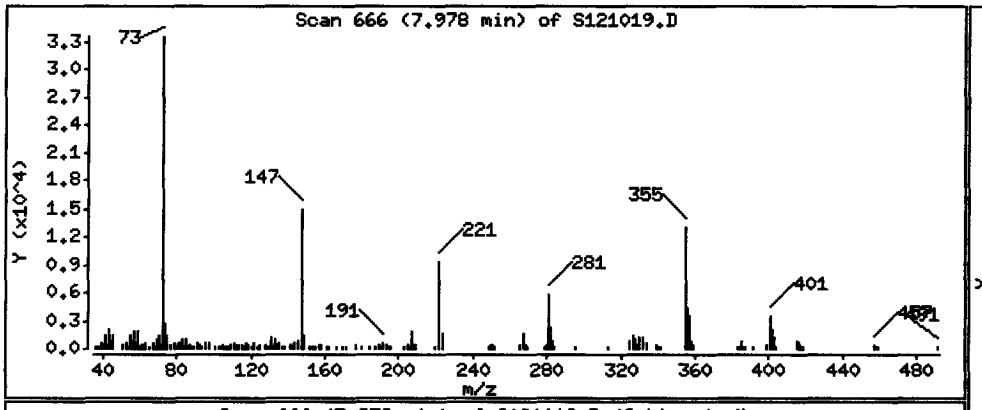
Client ID: 0342383 Instrument: sv5.i

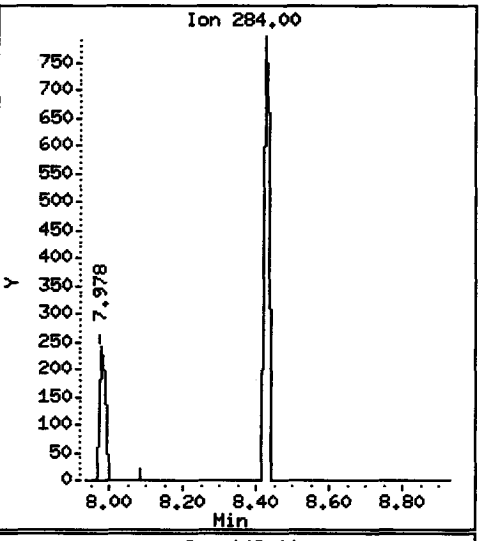
Sample Info: MA12A1AA G0L080454-9;0;;;1000;;1000;5

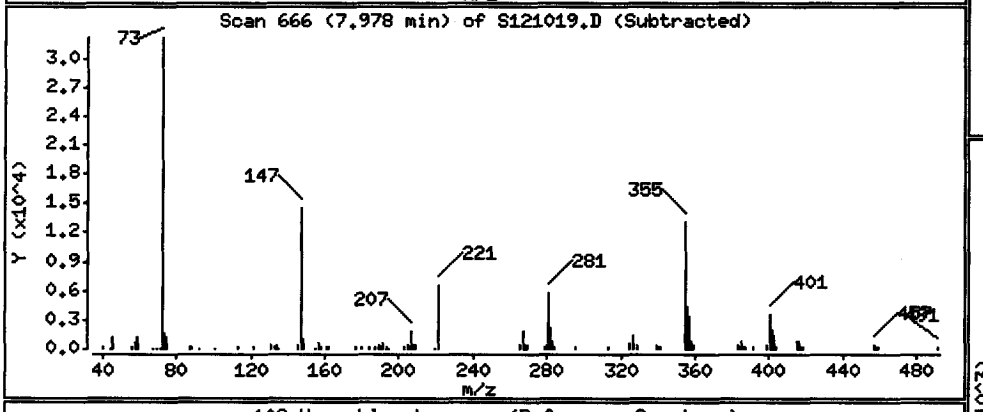
Volume Injected (uL): 1.0 Operator: KT

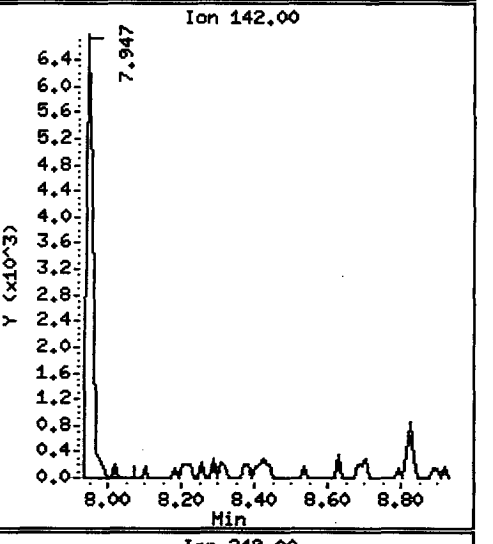
Column phase: Column diameter: 2.00

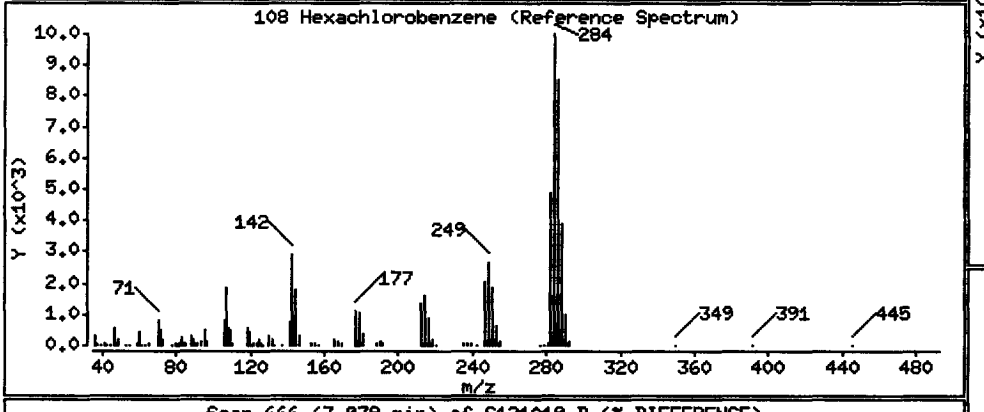
108 Hexachlorobenzene Concentration: 0.1168 ug/L

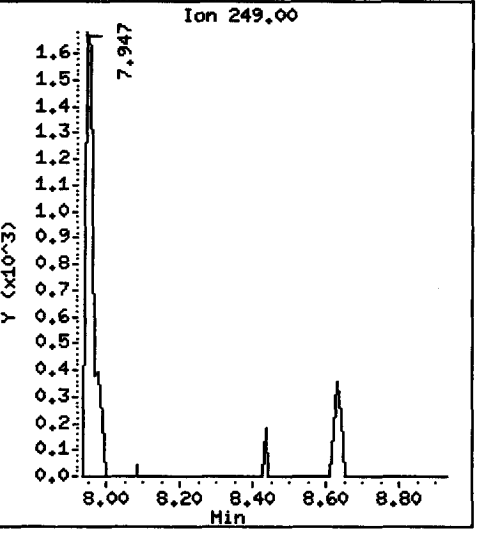


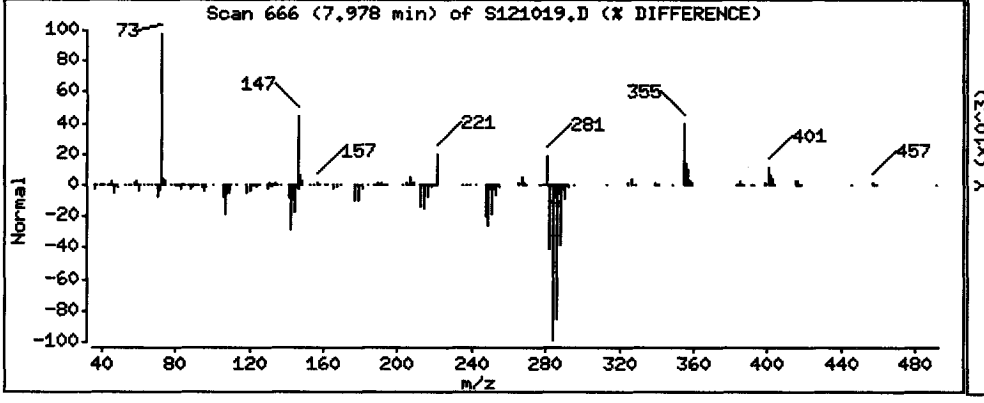












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121010.B\S121020.D
Lab Smp Id: MA12X1AA G0L080454- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 23:02
Operator : KT Inst ID: sv5.i
Smp Info : MA12X1AA G0L080454-12;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121010.B\8270f.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	125150	40.0000		(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	543281	40.0000		
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	304619	40.0000		
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	499554	40.0000		
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	534510	40.0000		
* 6	Perylene-d12	264	15.449	15.449	(1.000)	553023	40.0000		
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	323669	73.3729	73.37	
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	447945	80.7523	80.75	
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	96244	31.2256	31.22	(q)
$ 11	Nitrobenzene-d5	82	4.112	4.123	(0.839)	188986	41.0704	41.07	
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	410314	41.8145	41.81	
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	126582	95.6287	95.63	
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	421946	40.0768	40.08	
108	Hexachlorobenzene	284	8.423	8.434	(0.954)	18734	6.87892	6.879	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/13/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA12X1AA G0L080454- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121010.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.37	73.37	41-105
$ 8 Phenol-d5	100.0	80.75	80.75	43-122
$ 10 1,2-Dichlorobenzen	50.00	31.22	62.45	60-120
$ 11 Nitrobenzene-d5	50.00	41.07	82.14	46-118
$ 12 2-Fluorobiphenyl	50.00	41.81	83.63	58-105
$ 13 2,4,6-Tribromophen	100.0	95.63	95.63	61-118
$ 14 Terphenyl-d14	50.00	40.08	80.15	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121010.B\S121020.D
Lab Smp Id: MA12X1AA G0L080454- Client Smp ID: 0342383
Inj Date : 10-DEC-2010 23:02
Operator : KT Inst ID: sv5.i
Smp Info : MA12X1AA G0L080454-12;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121010.B\8270F.m
Meth Date : 13-Dec-2010 10:23 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.490	3.490	(1.000)	125150	40.0000	(q)
* 2	Naphthalene-d8	136	4.900	4.900	(1.000)	543281	40.0000	
* 3	Acenaphthene-d10	164	6.983	6.983	(1.000)	304619	40.0000	
* 4	Phenanthrene-d10	188	8.827	8.827	(1.000)	499554	40.0000	
* 5	Chrysene-d12	240	13.097	13.097	(1.000)	534510	40.0000	
* 6	Perylene-d12	264	15.449	15.449	(1.000)	553023	40.0000	
$ 7	2-Fluorophenol	112	2.288	2.288	(0.656)	323669	73.3729	73.37
$ 8	Phenol-d5	99	3.180	3.180	(0.911)	447945	80.7523	80.75
$ 10	1,2-Dichlorobenzene-d4	152	3.687	3.687	(1.056)	96244	31.2256	31.22(q)
$ 11	Nitrobenzene-d5	82	4.112	4.123	(0.839)	188986	41.0704	41.07
$ 12	2-Fluorobiphenyl	172	6.206	6.206	(0.889)	410314	41.8145	41.81
$ 13	2,4,6-Tribromophenol	330	7.957	7.957	(1.139)	126582	95.6287	95.63
$ 14	Terphenyl-d14	244	11.377	11.377	(0.869)	421946	40.0768	40.08
108	Hexachlorobenzene	284	8.423	8.434	(0.954)	18734	6.87892	6.879

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121020.D
Lab Smp Id: MA12X1AA G0L080454-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

Calibration Date: 10-DEC-2010
Calibration Time: 14:02
Client Smp ID: 0342383
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	125150	2.06
2 Naphthalene-d8	530514	265257	1061028	543281	2.41
3 Acenaphthene-d10	282538	141269	565076	304619	7.82
4 Phenanthrene-d10	462722	231361	925444	499554	7.96
5 Chrysene-d12	435850	217925	871700	534510	22.64
6 Perylene-d12	422284	211142	844568	553023	30.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.49	2.99	3.99	3.49	0.00
2 Naphthalene-d8	4.90	4.40	5.40	4.90	0.00
3 Acenaphthene-d10	6.98	6.48	7.48	6.98	0.00
4 Phenanthrene-d10	8.83	8.33	9.33	8.83	0.00
5 Chrysene-d12	13.10	12.60	13.60	13.10	0.00
6 Perylene-d12	15.45	14.95	15.95	15.45	0.00

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

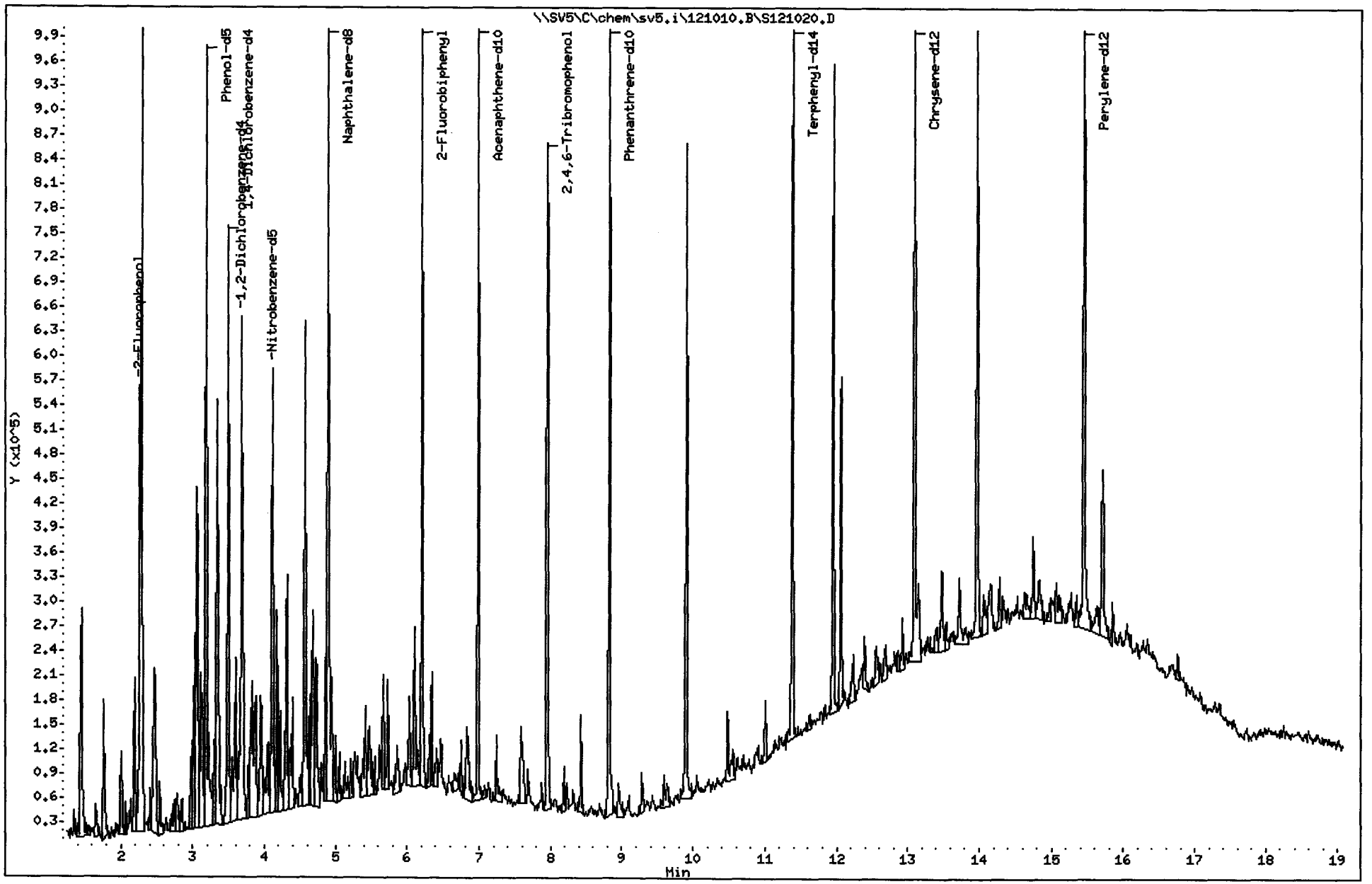
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA12X1AA G0L080454- Client Smp ID: 0342383
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121010.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0342383;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.37	73.37	41-105
$ 8 Phenol-d5	100.0	80.75	80.75	43-122
$ 10 1,2-Dichlorobenzen	50.00	31.22	62.45	60-120
$ 11 Nitrobenzene-d5	50.00	41.07	82.14	46-118
$ 12 2-Fluorobiphenyl	50.00	41.81	83.63	58-105
$ 13 2,4,6-Tribromophen	100.0	95.63	95.63	61-118
$ 14 Terphenyl-d14	50.00	40.08	80.15	69-110

Data File: \\SV5\C\chem\sv5.i\121010.B\S121020.D
Date : 10-DEC-2010 23:02
Client ID: 0342383
Instrument: sv5.i
Sample Info: MA12X1AA GOL080454-12;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121010.B\S121020.D

Date : 10-DEC-2010 23:02

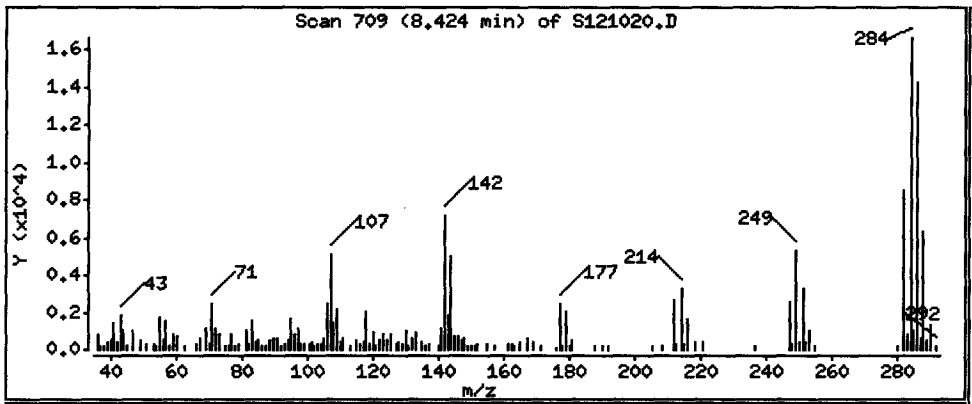
Client ID: 0342383 Instrument: sv5.i

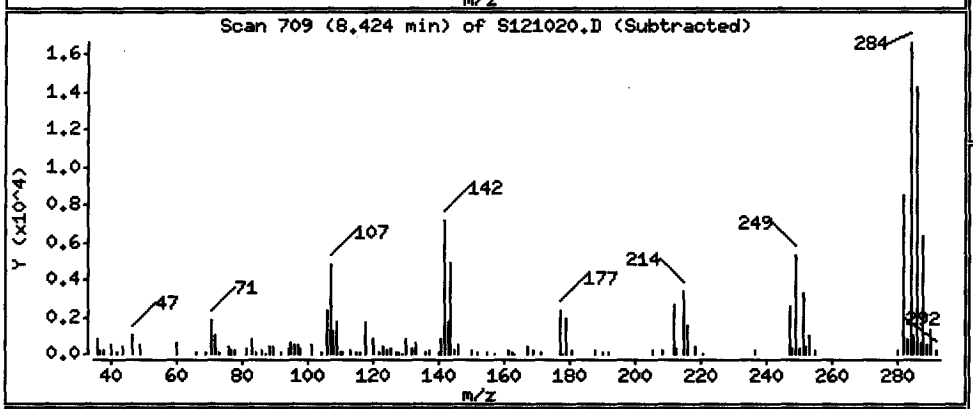
Sample Info: MA12X1AA G0L080454-12;0;;;1000;;1000;5

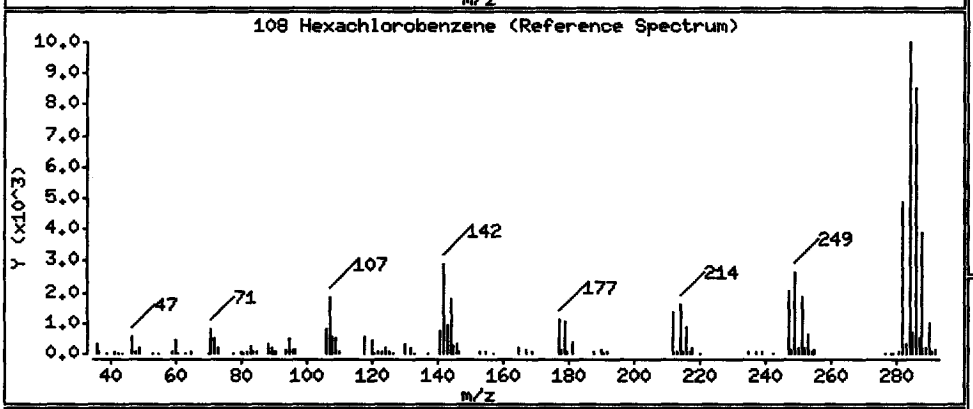
Volume Injected (uL): 1.0 Operator: KT

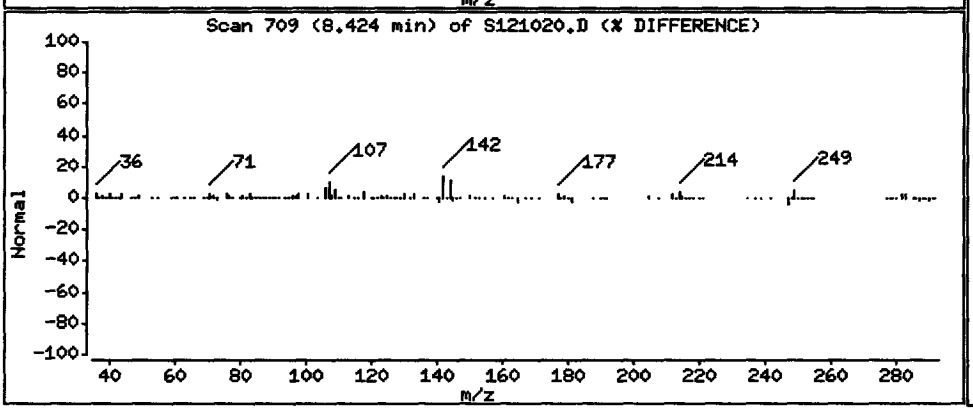
Column phase: Column diameter: 2.00

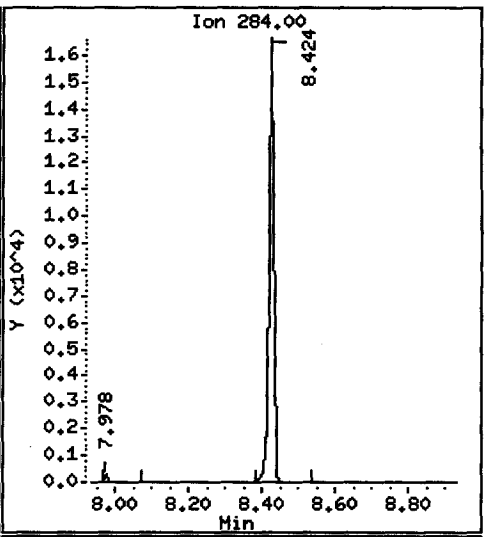
108 Hexachlorobenzene Concentration: 6.879 ug/L

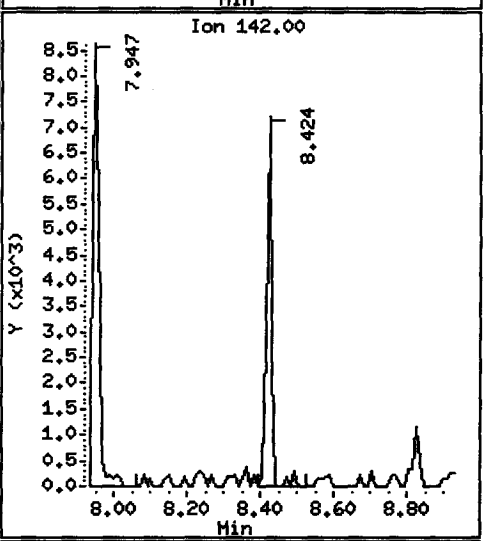


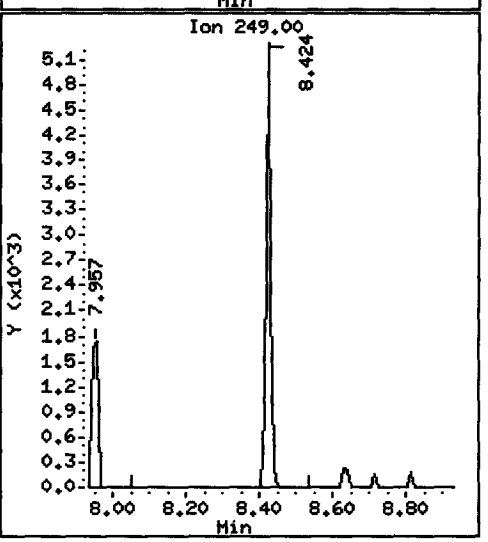












Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
MS SemiVOA ICAL Checklist
Method 8270C

Instrument: SV5

Injection Date: 10/02/10

Initiator/Date: KT-10/03/10

Reviewer/Date: DJ 10/4/10

DFTPP Mix ID: 10MSSV0129

STD Mix IDs: 10MSSV0307-0313

2nd Source Mix ID: 10MSSV0314, 342

NCM _____

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

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

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dichlorophenol	☒	☑	Fluoranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

III: Other Criteria	Initiated	Reviewed
The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG:_____	☒	☑
Tailing and degradation criteria are met.	☒	☑
The Tune Documentation is present and meets criteria	☒	☑
All Internal Standards within 50-200% of ICAL mid-point.	☒	☑
Calibration History Included.	☒	☑
Manual re-integrations are checked/initialed and hardcopies included.	☒	☑
Standards analyzed with within 12 hours of Tune time.	☒	☑
Retention time correct for Isomers and all other analytes.	☒	☑
Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)	☒	☑
The second source standard meets the SSCS criteria	☒	☑
File Name: _____		

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

None

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

None

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

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

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

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

SV5 HSL
10/3/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
15 N-Nitrosodimethylamine	0.92899	0.88268	0.91048	0.91970	0.93146	0.93916					
	0.93833						AVRG		0.92154		2.16207
16 Pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256					
	1.52623						AVRG		1.54111		5.85560
23 Aniline	2.20796	2.15935	2.19988	2.26058	2.29749	2.33400					
	2.33783						AVRG		2.25673		3.09753
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06683	2.06089					
	2.06740						AVRG		2.03729		1.80250

Manual calculation for 2,4,5-Trichlorophenol @ Level 3.

$\frac{55529}{328608} \times \frac{40}{20} = 0.33796$ by 10/4/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
26 Bis(2-chloroethyl)ether	1.47335	1.38252	1.39491	1.43824	1.42549	1.44300					
	1.44264						AVRG		1.42859		2.17028
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074					
	1.57039						AVRG		1.56381		1.32805
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299					
	1.72457						AVRG		1.70337		1.29370
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288					
	1.81444						AVRG		1.78118		1.35229
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952					
	1.09506						AVRG		1.05101		3.69696
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415					
	1.64691						AVRG		1.63746		1.45884
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45565	1.46154					
	1.47889						AVRG		1.43012		2.50558

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
33 2,2'-oxybis(1-Chloropropane)	2.29602	2.22080	2.28329	2.27928	2.27018	2.27830	2.28770	AVRG		2.27365		1.08468
34 4-Methylphenol	1.48606	1.48913	1.46270	1.52239	1.52653	1.55886	1.58763	AVRG		1.51904		2.88378
36 Hexachloroethane	0.60925	0.60836	0.60573	0.61394	0.60427	0.59381	0.60919	AVRG		0.60636		1.04319
37 N-Nitrosodinpropylamine	0.94498	0.97005	1.01302	1.02370	1.04700	1.03627	1.04757	AVRG		1.01180		3.92615
42 Nitrobenzene	0.32855	0.32602	0.32543	0.33083	0.33379	0.33450	0.33901	AVRG		0.33116		1.48904
44 Isophorone	0.63431	0.62291	0.61160	0.63344	0.63648	0.66468	0.65411	AVRG		0.63679		2.81109
45 2-Nitrophenol	0.18608	0.18833	0.18840	0.20021	0.20022	0.20702	0.20508	AVRG		0.19648		4.42274

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
46 2,4-Dimethyphenol	0.34459	0.34167	0.34307	0.34912	0.34788	0.35962					
	0.35785						AVRG		0.34911		2.02786
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859					
	0.38545						AVRG		0.38908		3.10601
49 2,4-Dichlorophenol	0.25434	0.26318	0.27019	0.27037	0.27274	0.28180					
	0.27809						AVRG		0.27010		3.39345
50 Benzoic Acid	0.16747	0.16266	0.17423	0.19357	0.21024	0.22272					
	0.22180						AVRG		0.19324		13.25202
51 1,2,4-Trichlorobenzene	0.29430	0.28827	0.28475	0.29747	0.29189	0.29959					
	0.29091						AVRG		0.29246		1.75989
52 Naphthalene	1.09939	1.12462	1.07435	1.09325	1.09870	1.13821					
	1.10247						AVRG		1.10443		1.89960
54 4-Chloroaniline	0.40751	0.42534	0.43264	0.43910	0.43781	0.44905					
	0.43867						AVRG		0.43288		3.06843

TestAmerica West Sacramento

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Start Cal Date : 17-AUG-2010 17:32
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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
57 Hexachlorobutadiene	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379					
	0.14473						AVRG		0.14313		1.58904
60 4-Chloro-3-Methylphenol	0.29329	0.28866	0.29079	0.30972	0.30295	0.31766					
	0.30839						AVRG		0.30164		3.64422
63 2-Methylnaphthalene	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172					
	0.69217						AVRG		0.69378		1.79740
66 Hexachlorocyclopentadiene	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262					
	0.33186						AVRG		0.29846		7.64489
69 2,4,6-Trichlorophenol	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225					
	0.33638						AVRG		0.31913		5.15654
70 2,4,5-Trichlorphenol	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480					
	0.36135						AVRG		0.34380		5.80662
71 2-Chloronaphthalene	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447					
	1.15096						AVRG		1.12571		2.05054

TestAmerica West Sacramento

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
73 2-Nitroaniline	0.31576	0.31759	0.33397	0.35205	0.34821	0.35794					
	0.36278						AVRG		0.34119		5.57334
76 Dimethylphthalate	1.23388	1.25191	1.29803	1.34568	1.31165	1.32891					
	1.30237						AVRG		1.29606		3.09317
77 Acenaphthylene	1.86531	1.91304	1.91818	2.01646	1.98204	1.99786					
	2.02968						AVRG		1.96037		3.15026
79 2,6-Dinitrotoluene	0.28347	0.27378	0.29890	0.31220	0.31294	0.32140					
	0.31106						AVRG		0.30197		5.78579
80 3-Nitroaniline	0.35362	0.34622	0.35978	0.40036	0.38674	0.39559					
	0.39603						AVRG		0.37691		6.06861
81 Acenaphthene	1.25874	1.22468	1.26733	1.27046	1.21141	1.24781					
	1.25463						AVRG		1.24787		1.76776
82 2,4-Dinitrophenol	4083	7537	23799	58864	110384	199007					
	265655						QUAD	0.10620	5.32413	-0.71963	0.99812

TestAmerica West Sacramento

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
83 Dibenzofuran	1.57786	1.62124	1.65200	1.69530	1.65117	1.68450					
	1.71077						AVRG		1.65612		2.77923
84 4-Nitrophenol	0.12712	0.14148	0.15316	0.16076	0.17130	0.16653					
	0.17404						AVRG		0.15634		10.90920
86 2,4-Dinitrotoluene	0.34360	0.35989	0.38479	0.42154	0.41035	0.42305					
	0.43110						AVRG		0.39633		8.61592
91 Fluorene	1.34567	1.33840	1.34292	1.39902	1.38899	1.37835					
	1.40640						AVRG		1.37139		2.08557
92 Diethylphthalate	1.22240	1.29889	1.31549	1.37912	1.31873	1.37345					
	1.38087						AVRG		1.32699		4.31889
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695					
	0.57695						AVRG		0.57019		2.42913
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102					
	0.40452						AVRG		0.37361		7.42395

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
97 4,6-Dinitro-2-methylphenol	5780	11282	32982	76137	134784	236477					
	324244						LINR	0.10840	0.15581		0.99840
98 N-Nitrosodiphenylamine	0.57756	0.59736	0.60533	0.60433	0.62172	0.61801					
	0.61968						AVRG		0.60628		2.57715
100 Azobenzene	0.77527	0.76965	0.77321	0.79522	0.80064	0.81892					
	0.77331						AVRG		0.78660		2.37146
101 4-Bromophenyl-phenylether	0.18964	0.18507	0.19281	0.19931	0.19607	0.20581					
	0.19815						AVRG		0.19527		3.48752
108 Hexachlorobenzene	0.22958	0.22054	0.20740	0.21605	0.21731	0.21704					
	0.21854						AVRG		0.21807		3.00928
110 Pentachlorophenol	5849	10551	30451	67882	126397	215360					
	293184						LINR	0.09816	0.14122		0.99845
114 Phenanthrene	1.30347	1.26007	1.25408	1.24163	1.24375	1.25610					
	1.26611						AVRG		1.26074		1.64308

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214					
	1.26958						AVRG		1.25955		2.12888
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192					
	1.16455						AVRG		1.15061		1.87826
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847					
	1.48636						AVRG		1.38442		4.97257
126 Fluoranthene	1.03840	1.07611	1.17216	1.10520	1.15861	1.18294					
	1.17440						AVRG		1.12969		5.01774
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375					
	0.86381						AVRG		0.81067		5.60614
128 Pyrene	1.25791	1.23783	1.17078	1.28684	1.25586	1.28463					
	1.25794						AVRG		1.25025		3.12172
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414					
	0.79926						AVRG		0.71564		8.88815

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233					
	0.64920						AVRG		0.62663		3.95034
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831					
	1.10920						AVRG		1.06548		4.05847
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241					
	1.12246						AVRG		1.08994		2.59426
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717					
	0.42415						AVRG		0.40189		4.53885
141 bis(2-ethylhexyl)Phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539					
	0.88354						AVRG		0.86316		4.34816
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47616					
	1.50770						AVRG		1.37975		6.65055
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132					
	1.02572						AVRG		0.90549		10.05836

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
145 Benzo(k)fluoranthene	1.22939	1.16528	1.20022	1.09895	1.14223	1.19597					
	1.10447						AVRG		1.16236		4.27893
147 Benzo(e)pyrene	0.90394	0.92734	0.90757	0.95977	0.96997	0.96929					
	0.97185						AVRG		0.94425		3.22007
148 Benzo(a)pyrene	0.98300	0.97686	0.99402	1.02789	1.07610	1.06275					
	1.06523						AVRG		1.02655		4.11137
151 Indeno(1,2,3-cd)pyrene	0.73783	0.73267	0.73671	0.84698	0.84057	0.93730					
	0.97995						AVRG		0.83029		12.15083
152 Dibenzo(a,h)anthracene	0.88099	0.84384	0.87256	0.92240	0.95990	1.00944					
	1.00392						AVRG		0.92758		7.07091
153 Benzo(g,h,i)perylene	0.96025	0.98457	0.97380	0.99974	1.01731	1.05397					
	1.04026						AVRG		1.00427		3.45188
M 162 benzo b,k Fluoranthene Totals	2.03951	1.97605	2.02770	2.09825	2.09596	2.10729					
	2.13019						AVRG		2.06785		2.64859

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	160.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43535	1.42292	1.43635	AVRG		1.40992		3.61494
$ 8 Phenol-d5	1.72227	1.67335	1.74151	1.79006	1.80863	1.83864	1.83627	AVRG		1.77296		3.52001
$ 9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967	1.57804	AVRG		1.55698		2.52388
$ 10 1,2-Dichlorobenzene-d4	0.95776	0.98111	0.99827	0.98914	0.99518	0.98547	0.98896	AVRG		0.98513		1.35559
$ 11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34105	0.33606	0.35127	0.33970	AVRG		0.33879		2.16217
$ 12 2-Fluorobiphenyl	1.28499	1.26007	1.27668	1.34206	1.25854	1.29723	1.30010	AVRG		1.28852		2.22622
$ 13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17825	0.18501	0.18390	AVRG		0.17381		7.05197

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

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

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

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Signal Calibration Report

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

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
Origin: None
Amt = Rsp/m1
m1 = 0.15933171100000
RSD: 26.349

Initial Calibration Table

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

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

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor

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

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

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

2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\QC001
4	1_8270STD	\\SV5\C\chem\sv5.i\100110.B\HSL1001
5	1_8270STD	\\SV5\C\chem\sv5.i\093010.B\HSL0930
6	1_8270STD	\\sv5\c\chem\sv5.i\092910A.B\HSL0929A
7	1_8270STD	\\SV5\C\chem\sv5.i\092910.B\HSL0929
8	1_8270STD	\\SV5\C\chem\sv5.i\092910.B\QC001
9	1_8270STD	\\SV5\C\chem\sv5.i\092810A.B\HSL0928
10	1_8270STD	\\SV5\C\chem\sv5.i\092810.B\HSL0928
11	1_8270STD	\\SV5\C\chem\sv5.i\092710.B\HSL0927
12	1_8270STD	\\SV5\C\chem\sv5.i\092510.B\QC001
13	1_8270STD	\\sv5\c\chem\sv5.i\092510.B\HSL0925
14	1_8270STD	\\SV5\C\chem\sv5.i\092410.B\QC001
15	1_8270STD	\\SV5\C\chem\sv5.i\092410.B\HSL0924
16	1_8270STD	\\SV5\C\chem\sv5.i\092310A.B\HSL0923A
17	1_8270STD	\\SV5\C\chem\sv5.i\092310A.B\QC001
18	1_8270STD	\\SV5\C\chem\sv5.i\092310.B\QC001
19	1_8270STD	\\SV5\C\chem\sv5.i\092310.B\HSL0923
20	1_8270STD	\\SV5\C\chem\sv5.i\092210.B\HSL0922a
21	1_8270STD	\\SV5\C\chem\sv5.i\092210.B\HSL0922
22	1_8270STD	\\SV5\C\chem\sv5.i\092210.B\QC001
23	1_8270STD	\\SV5\C\chem\sv5.i\092110.B\HSL0921
24	1_8270STD	\\SV5\C\chem\sv5.i\092010.B\QC001
25	1_8270STD	\\SV5\C\chem\sv5.i\092010.B\HSL0920
26	1_8270STD	\\SV5\C\chem\sv5.i\091910a.B\HSL0919a
27	1_8270STD	\\SV5\C\chem\sv5.i\091910.B\HSL0919
28	1_8270STD	\\SV5\C\chem\sv5.i\091910.B\QC001
29	1_8270STD	\\SV5\C\chem\sv5.i\091710.B\HSL0917
30	1_8270STD	\\SV5\C\chem\sv5.i\091710.B\QC001
31	1_8270STD	\\SV5\C\chem\sv5.i\091510b.B\HSL0915b
32	1_8270STD	\\SV5\C\chem\sv5.i\091510b.B\QC003
33	1_8270STD	\\sv5\c\chem\sv5.i\091010.B\HSL0910
34	1_8270STD	\\SV5\C\chem\sv5.i\091010.B\QC001

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

Signal Calibration Report

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

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
Origin: None
Amt = Rsp/m1
m1 = 0.11930897400000
RSD: 15.221

Initial Calibration Table

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

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

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor

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

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

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

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

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

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

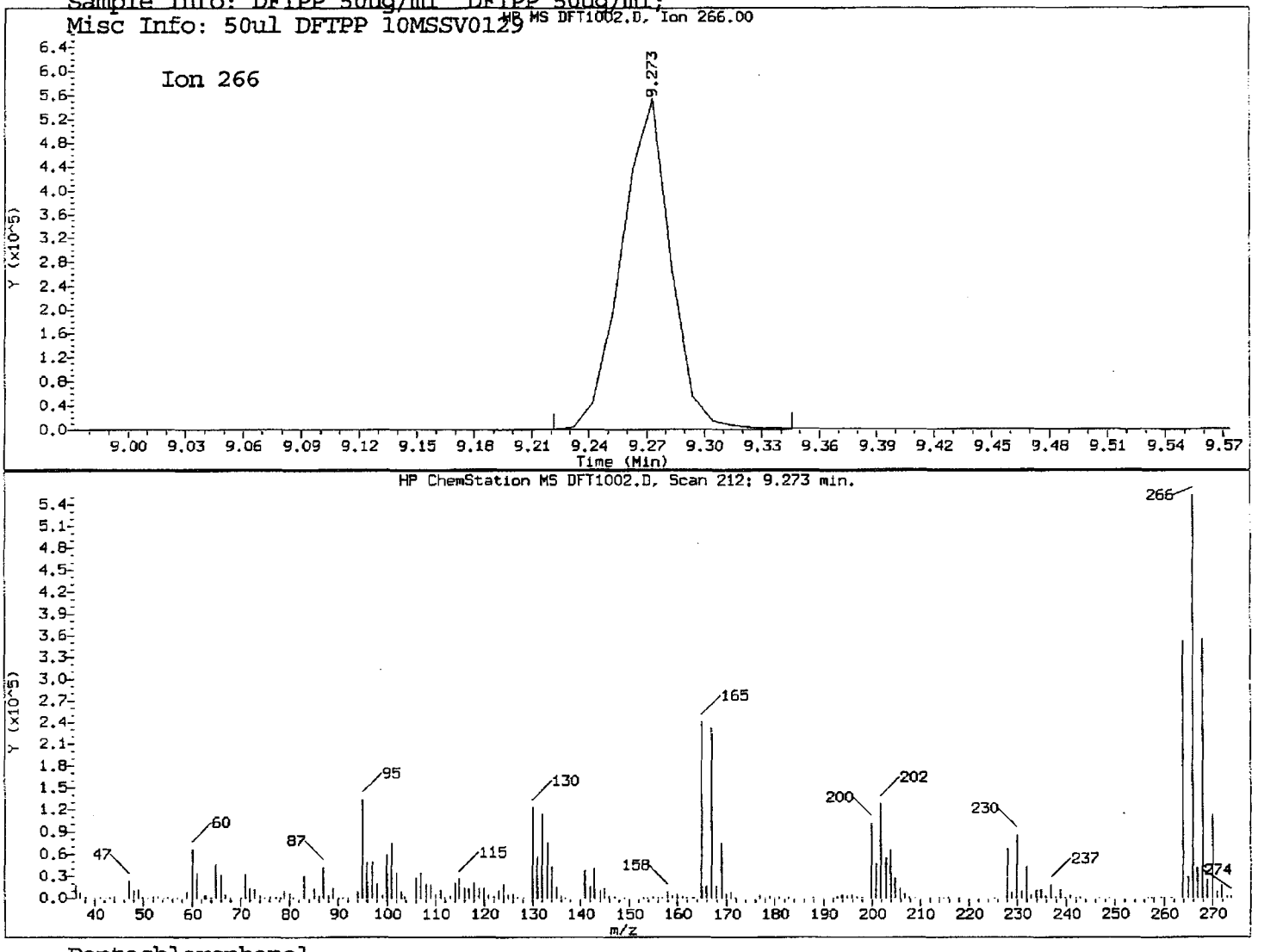
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

****
*** PASSED ***
****

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

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



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

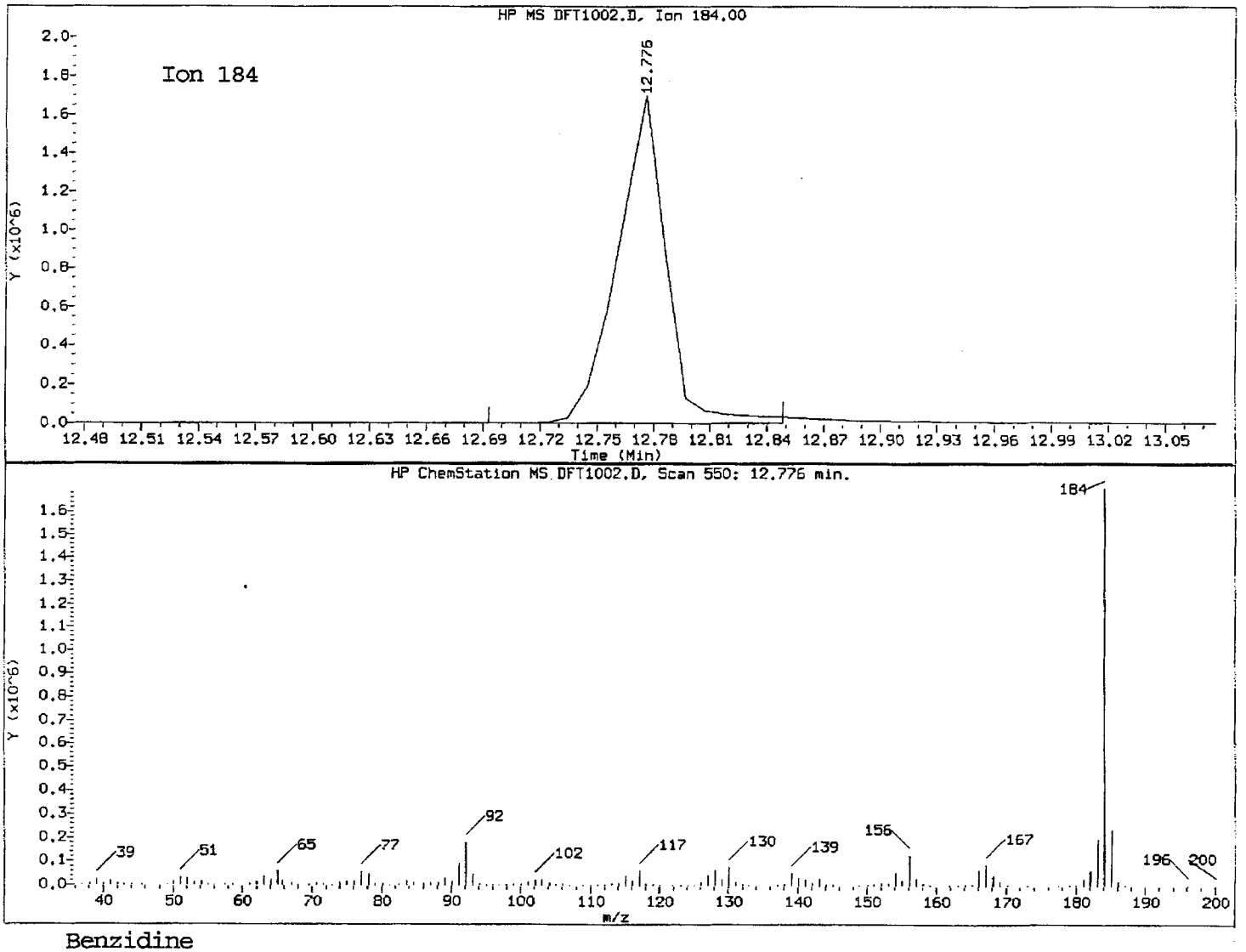
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683 Maximum Allowed = 5.0

Report Date: 10/03/2010 11:04

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



Benzidine
=========
Exp. RT = 12.911
Found RT = 12.776

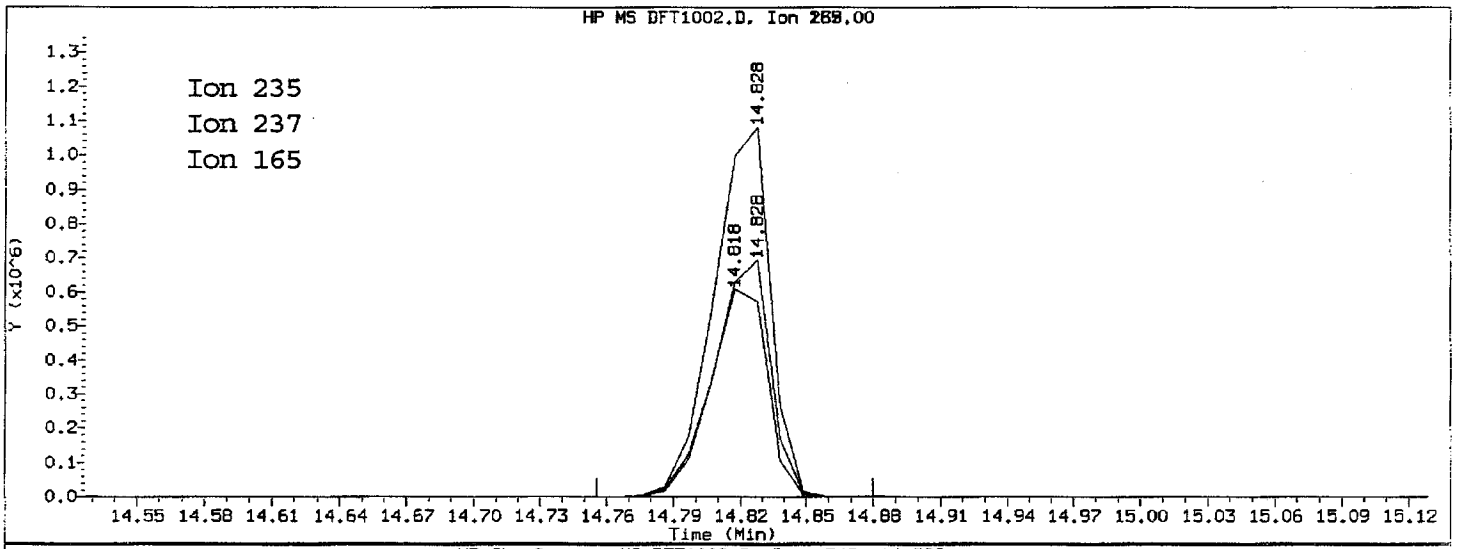
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

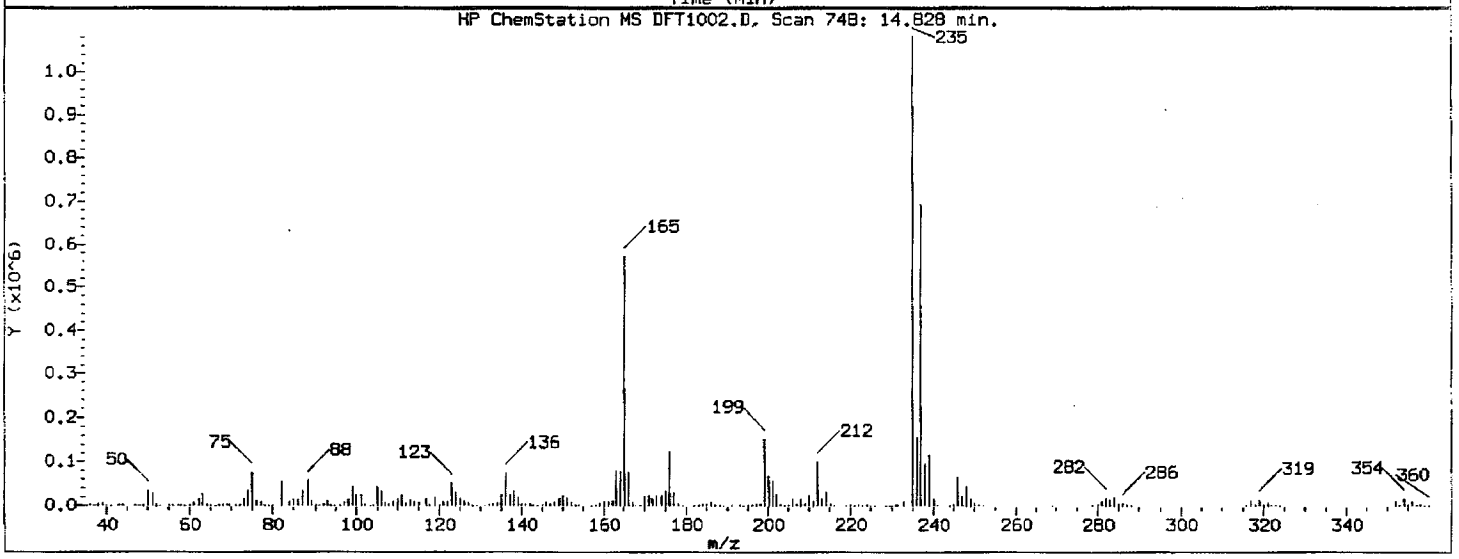
Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

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



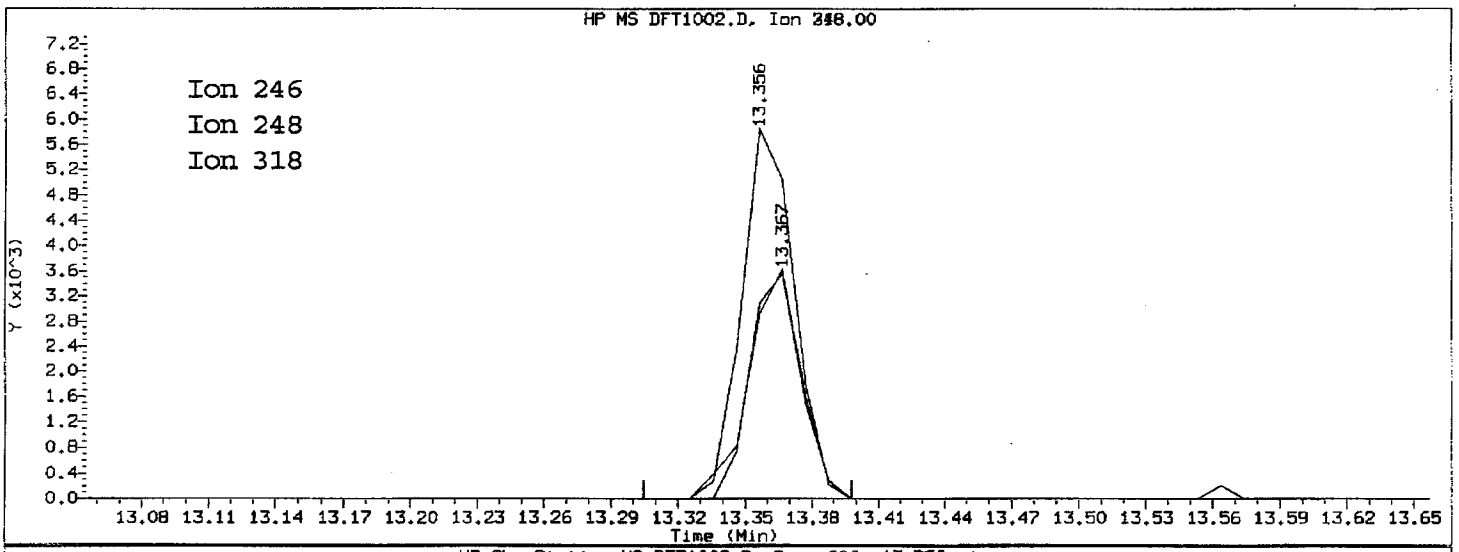


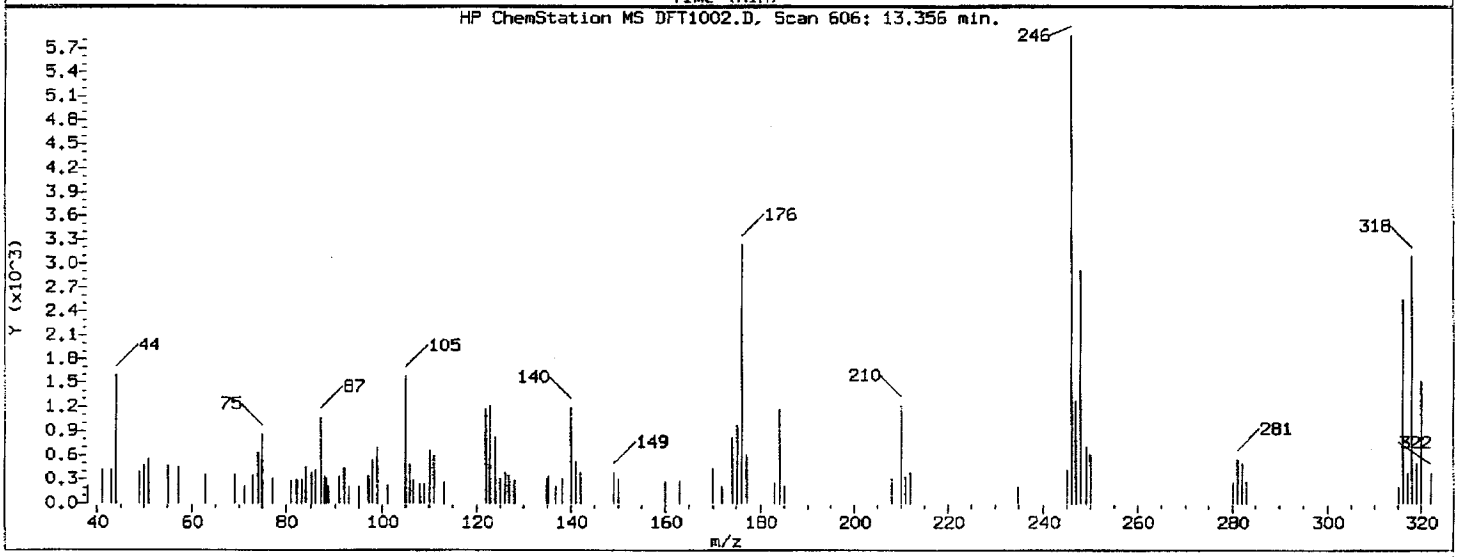
4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.828

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

Report Date: 10/03/2010 11:04

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



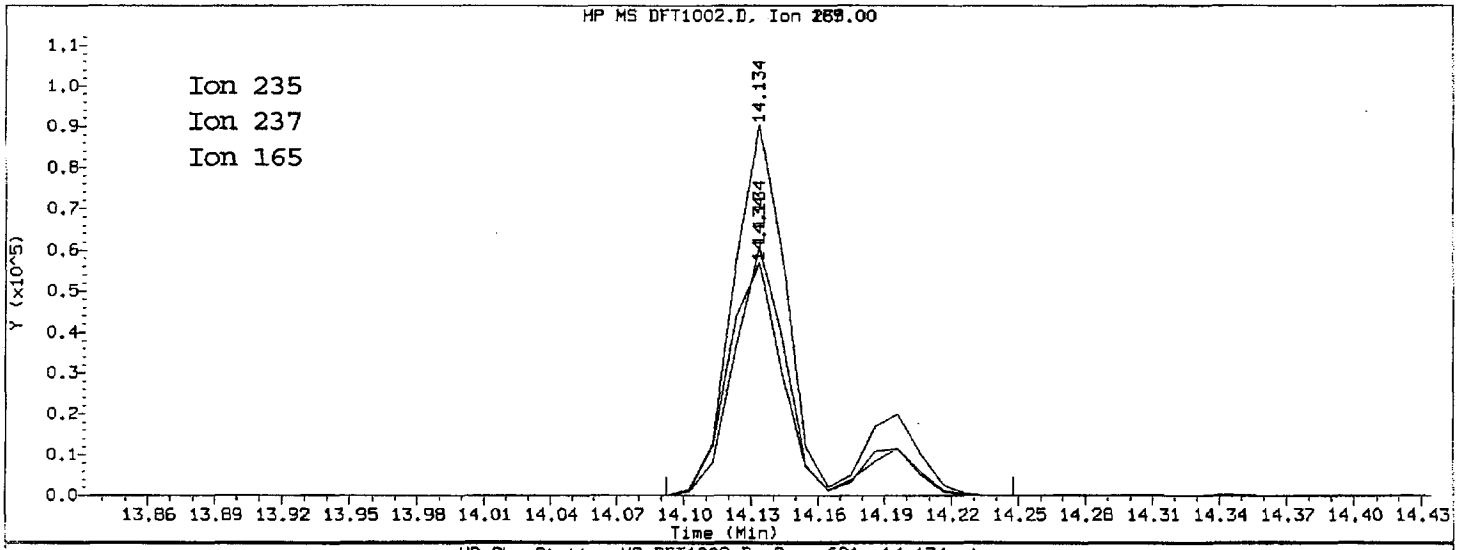


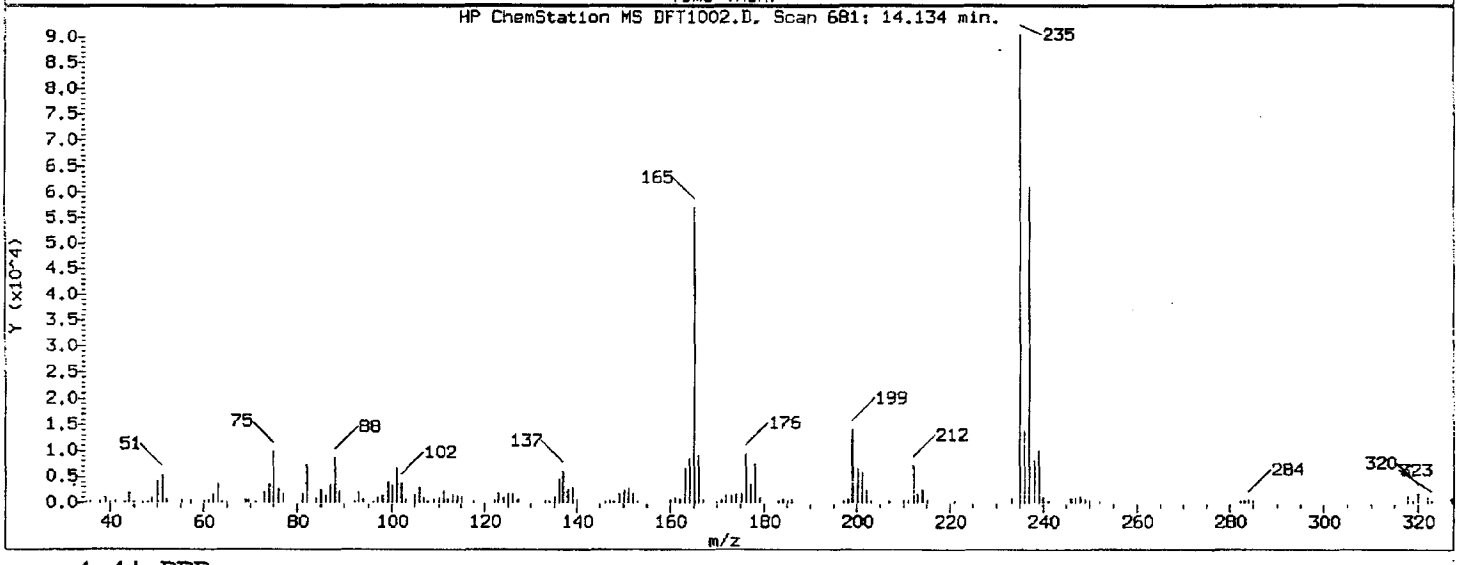
4,4'-DDE
========
Exp. RT = 13.470
Found RT = 13.356

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

Report Date: 10/03/2010 11:04

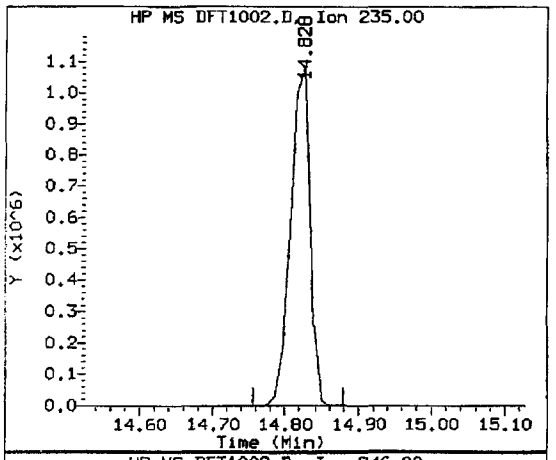
Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



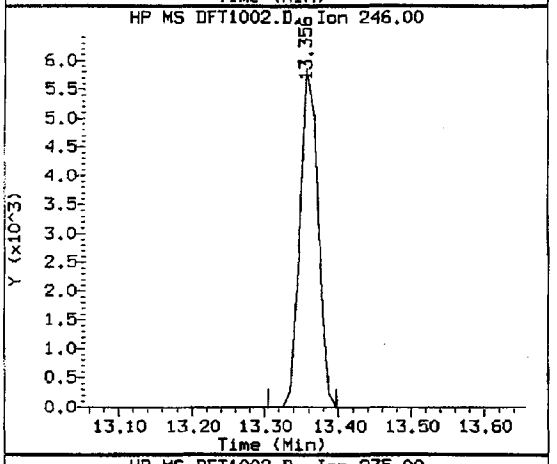


4,4'-DDD
========
Exp. RT = 14.248
Found RT = 14.134

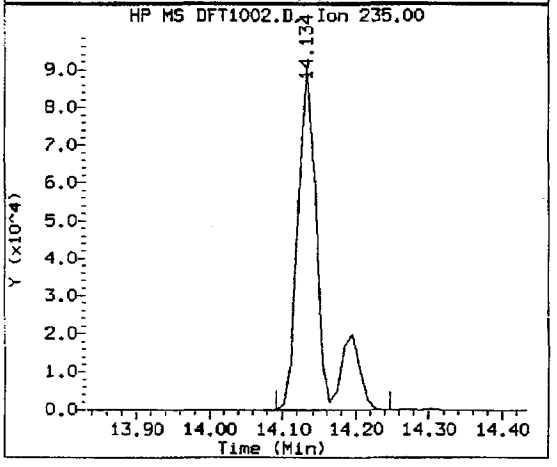
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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



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



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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

TestAmerica West Sacramento

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

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

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

Date : 02-OCT-2010 12:06

Client ID:

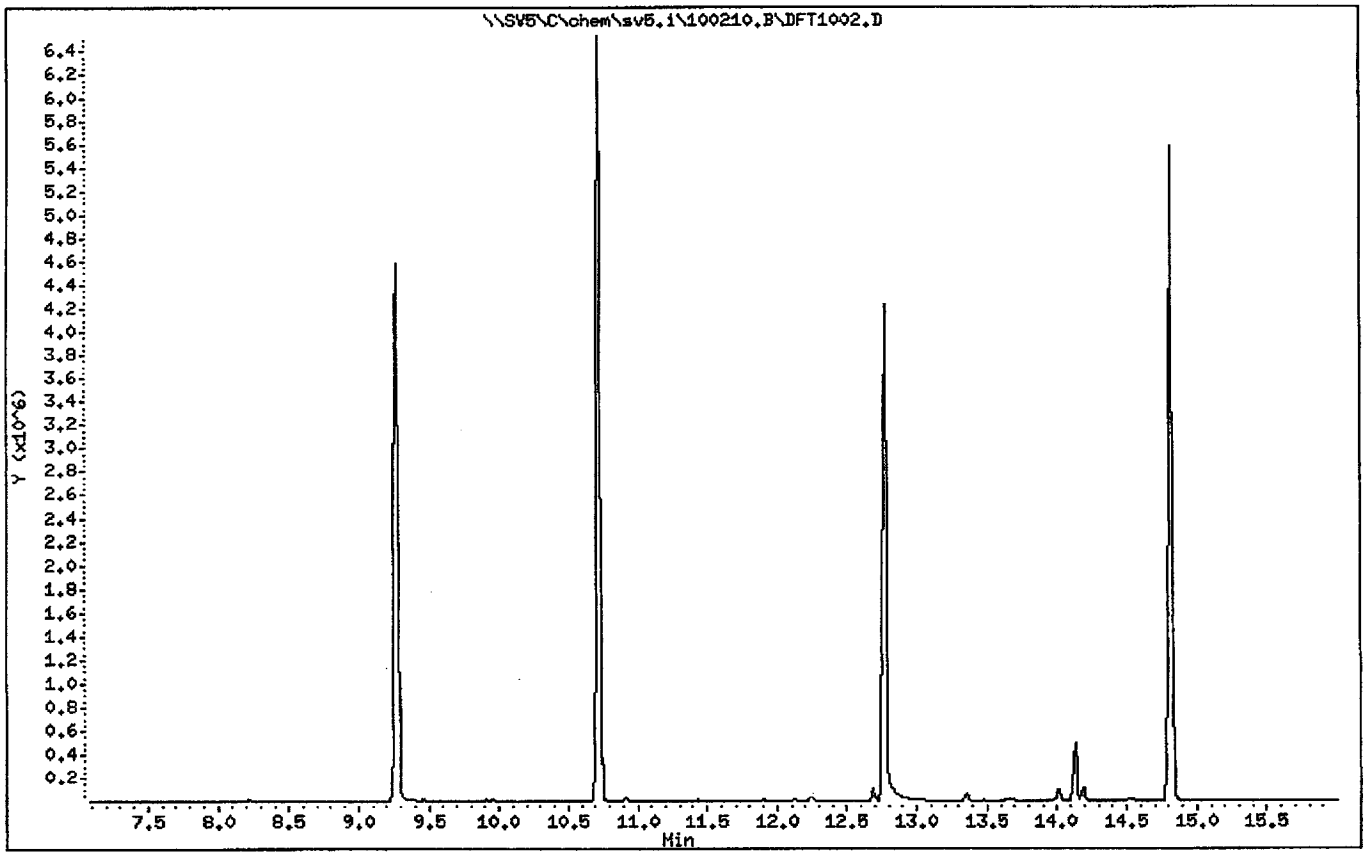
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



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

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

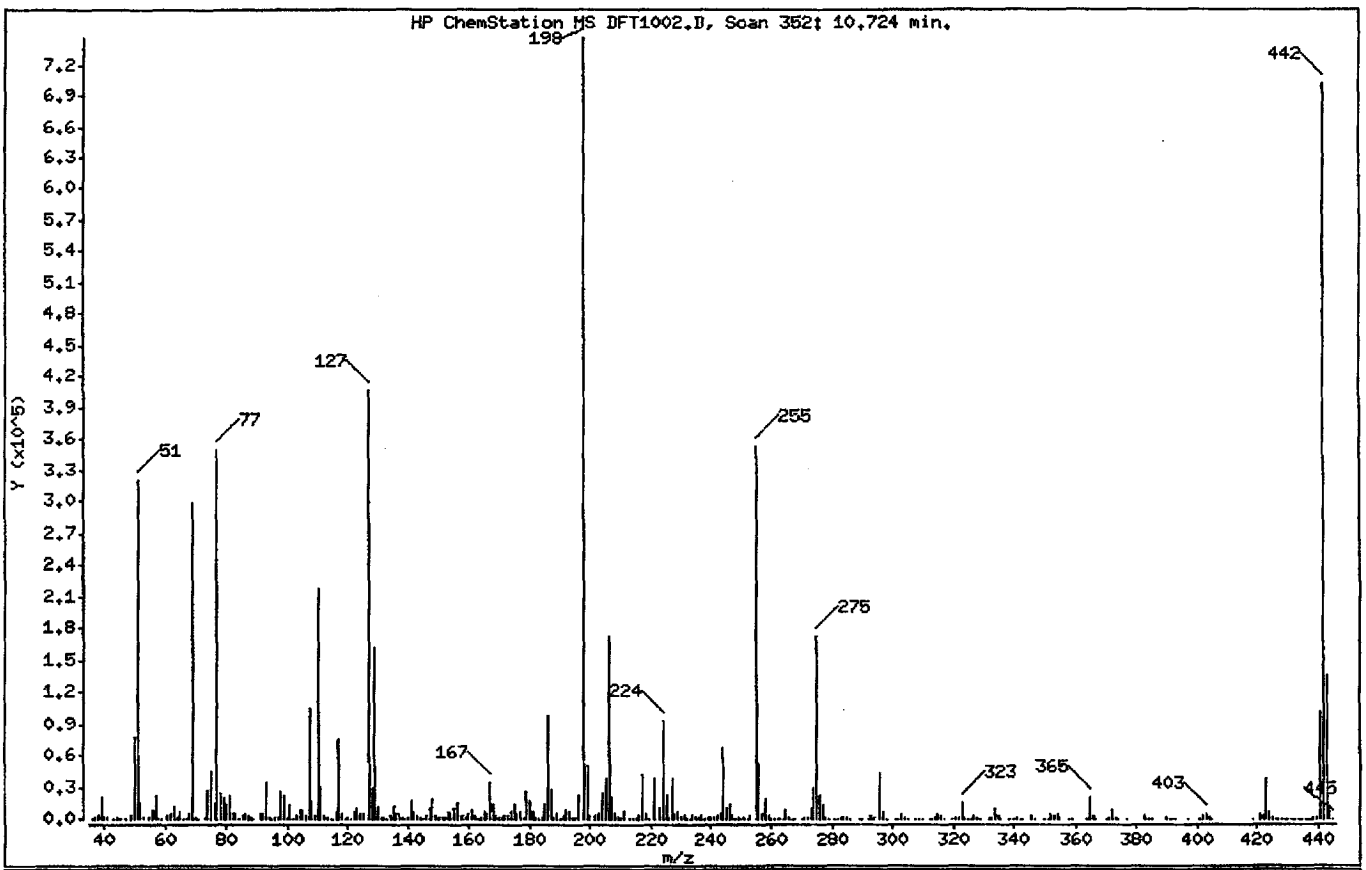
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



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

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

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

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

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	203	130.00	12809	219.20	447	321.00	1763
37.10	1216	131.00	2287	221.00	37608	322.10	913
38.10	3314	132.00	1225	223.10	9674	323.10	16294
39.10	21392	133.00	620	224.10	93432	324.10	2245
40.00	1076	134.00	3794	225.10	21544	324.80	382
41.10	949	135.10	11378	226.10	1736	326.00	507
43.10	352	136.00	4886	227.00	37976	327.00	2789
44.00	922	137.00	5203	228.00	4945	328.00	1262
45.00	428	138.00	1265	229.00	7548	329.10	343
47.00	204	139.00	791	230.00	1024	331.90	894
49.10	2676	140.00	2233	231.10	2757	333.00	1455
50.10	77024	141.00	17480	232.00	528	334.10	9590
51.10	320640	142.00	7259	233.00	641	335.00	2774
52.10	16189	143.00	3921	234.00	2909	336.00	291
53.10	963	144.00	1375	235.00	2419	339.00	369
55.00	1815	145.10	829	236.10	1608	340.00	399
56.00	8872	146.00	3251	237.00	3192	341.00	2042
57.00	22504	147.00	9463	238.00	581	342.10	852
58.00	755	148.00	18744	239.00	1185	343.20	220
59.10	372	149.00	4031	240.00	1065	346.00	2819
61.00	3888	150.10	1094	241.00	1870	346.90	608
62.00	4800	151.20	2277	242.00	3682	350.30	205
63.10	11199	152.10	1506	243.10	4924	351.00	283
64.10	1448	153.00	6113	244.10	66498	352.00	5049
65.10	6509	154.00	5445	245.10	9865	353.10	3110
66.00	499	155.00	10151	246.00	14573	354.00	5432
67.10	461	156.10	14866	247.00	3022	355.00	1087
68.00	4826	157.10	3676	248.10	618	358.00	241
69.00	298048	158.10	3734	249.00	2441	359.00	574
70.10	1913	159.00	2313	250.00	627	363.50	249
71.10	410	160.00	5246	250.90	1000	365.00	20496
73.10	2021	161.10	8666	252.00	756	366.00	3166
74.00	28000	162.00	2863	253.10	2603	367.00	225
75.00	45304	163.10	562	255.00	353024	370.10	477
76.10	15795	164.00	1067	256.00	51440	370.90	1541

Date : 02-OCT-2010 12:06

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

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

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

Date : 02-OCT-2010 12:06

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml

Operator: KT

Column phase: Column diameter: 2.00

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

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

TestAmerica West Sacramento

Method 8270C

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

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

10-7-10

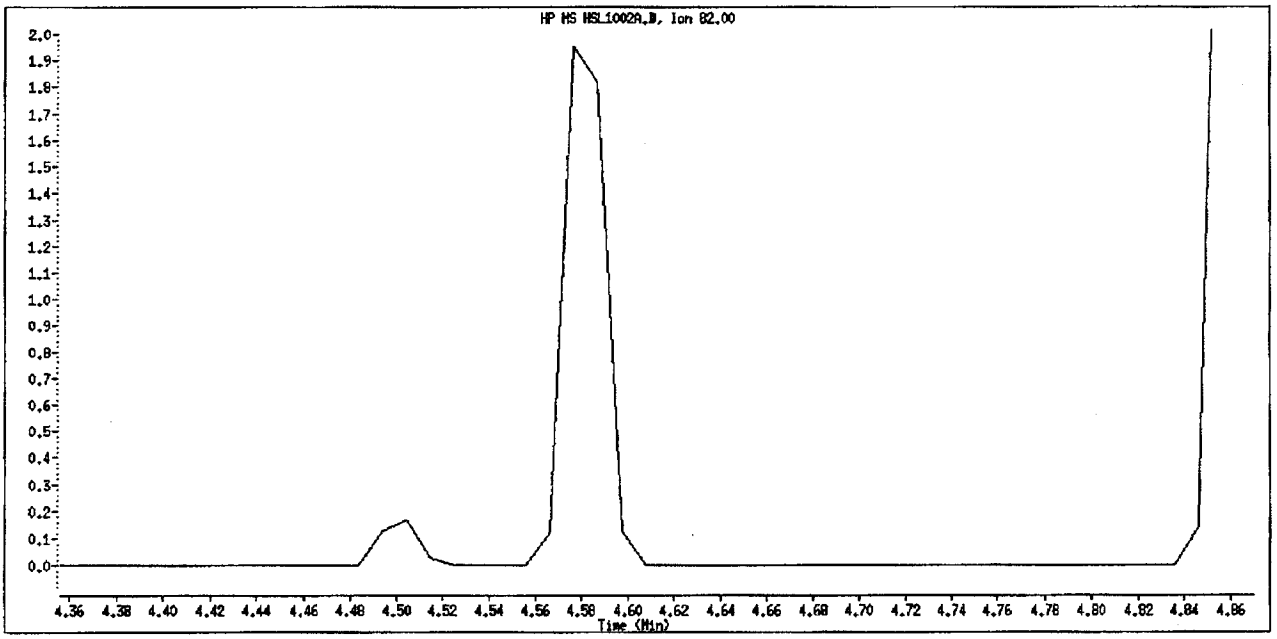
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49	2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50	Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51	1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	22282	5.00000	5.032
52	Naphthalene	128	5.395	5.395	(1.004)	83236	5.00000	4.977
54	4-Chloroaniline	127	5.488	5.488	(1.021)	30853	5.00000	4.707
57	Hexachlorobutadiene	225	5.613	5.613	(1.044)	10823	5.00000	4.994
60	4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	22205	5.00000	4.862
63	2-Methylnaphthalene	142	6.203	6.203	(1.154)	51849	5.00000	4.936
66	Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	10813	5.00000	4.503
69	2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	12546	5.00000	4.886
70	2,4,5-Trichlorphenol	196	6.628	6.628	(0.888)	12400	5.00000	4.483
71	2-Chloronaphthalene	162	6.784	6.784	(0.908)	45713	5.00000	5.047
73	2-Nitroaniline	65	6.949	6.949	(0.931)	12703	5.00000	4.627
76	Dimethylphthalate	163	7.219	7.229	(0.967)	49639	5.00000	4.760
77	Acenaphthylene	152	7.281	7.281	(0.975)	75041	5.00000	4.758
79	2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	11404	5.00000	4.694(QM)
80	3-Nitroaniline	138	7.447	7.447	(0.997)	14226	5.00000	4.691(Q)
81	Acenaphthene	153	7.509	7.509	(1.006)	50639	5.00000	5.044
82	2,4-Dinitrophenol	184	7.571	7.572	(1.014)	4083	5.00000	6.945(q)
83	Dibenzofuran	168	7.696	7.706	(1.031)	63477	5.00000	4.764
84	4-Nitrophenol	109	7.675	7.675	(1.028)	5114	5.00000	4.065(Q)
86	2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	13823	5.00000	4.335(q)
91	Fluorene	166	8.131	8.131	(1.089)	54136	5.00000	4.906
92	Diethylphthalate	149	8.100	8.100	(1.085)	49177	5.00000	4.606
93	4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	22112	5.00000	4.820
94	4-Nitroaniline	138	8.214	8.214	(1.100)	13415	5.00000	4.463
97	4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	5780	5.00000	7.325(q)
98	N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	41998	5.86000	5.582
100	Azobenzene	77	8.348	8.348	(0.888)	48101	5.00000	4.928
101	4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	11766	5.00000	4.856
108	Hexachlorobenzene	284	8.981	8.981	(0.955)	14244	5.00000	5.264
110	Pentachlorophenol	266	9.240	9.240	(0.982)	5849	5.00000	7.264
114	Phenanthrene	178	9.437	9.437	(1.003)	80873	5.00000	5.169
115	Anthracene	178	9.499	9.499	(1.010)	77577	5.00000	4.963
118	Carbazole	167	9.768	9.768	(1.039)	70241	5.00000	4.920
120	Di-n-Butylphthalate	149	10.463	10.463	(1.112)	79722	5.00000	4.641
126	Fluoranthene	202	11.302	11.302	(1.202)	64427	5.00000	4.596
127	Benzidine	184	11.571	11.571	(0.840)	44267	5.00000	4.822
128	Pyrene	202	11.665	11.665	(0.847)	71230	5.00000	5.030
134	3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	37074	5.00000	4.574
136	Butylbenzylphthalate	149	12.991	12.991	(0.943)	36798	5.00000	5.185
138	Benzo(a)Anthracene	228	13.758	13.758	(0.998)	62384	5.00000	5.170
139	Chrysene	228	13.820	13.831	(1.003)	59618	5.00000	4.830
140	3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	22168	5.00000	4.870
141	bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	51997	5.00000	5.319
142	Di-n-octylphthalate	149	15.157	15.167	(1.100)	76353	5.00000	4.886
144	Benzo(b)fluoranthene	252	15.572	15.582	(0.963)	45075	5.00000	4.473(Q)
145	Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	68403	5.00000	5.288(q)
147	Benzo(e)pyrene	252	15.996	16.007	(0.990)	50295	5.00000	4.786
148	Benzo(a)pyrene	252	16.069	16.079	(0.994)	54694	5.00000	4.788
151	Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	41053	5.00000	4.443
152	Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	49018	5.00000	4.749
153	Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	53428	5.00000	4.781

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

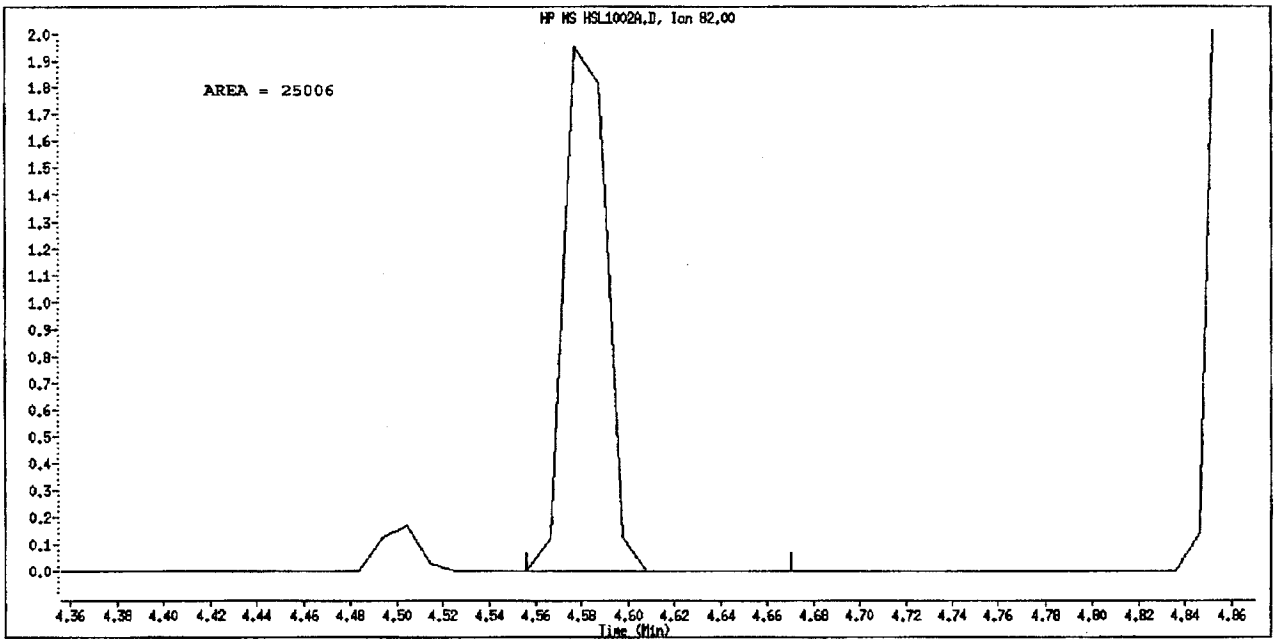
QC Flag Legend

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

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



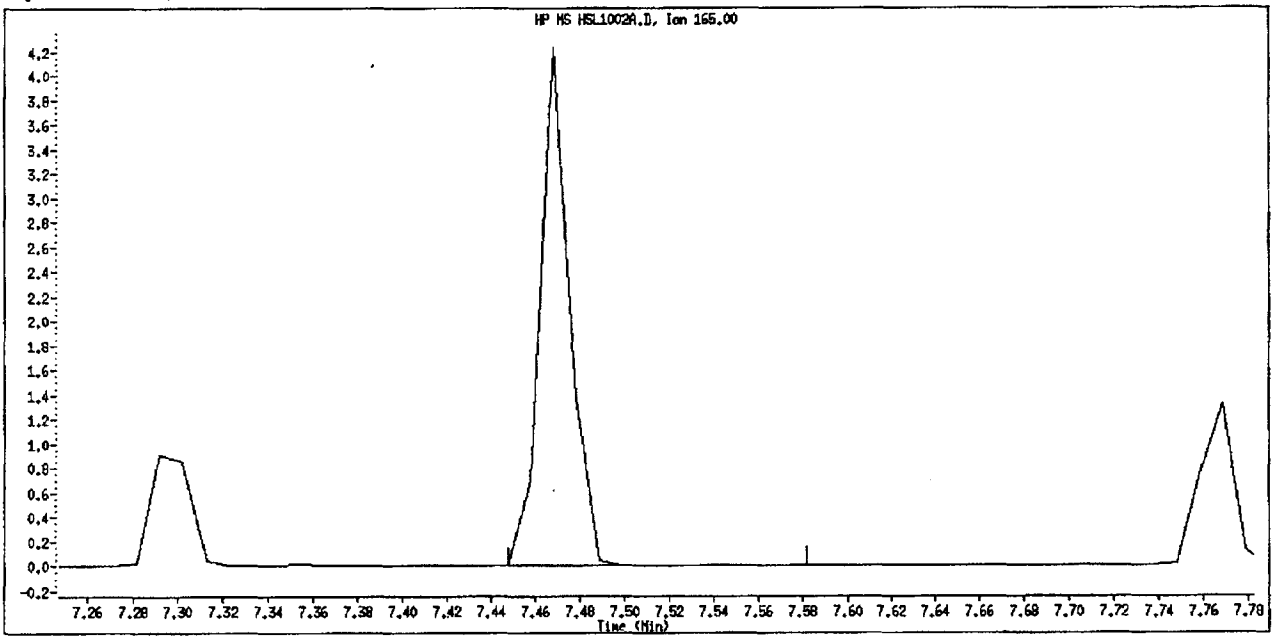
Original Integration



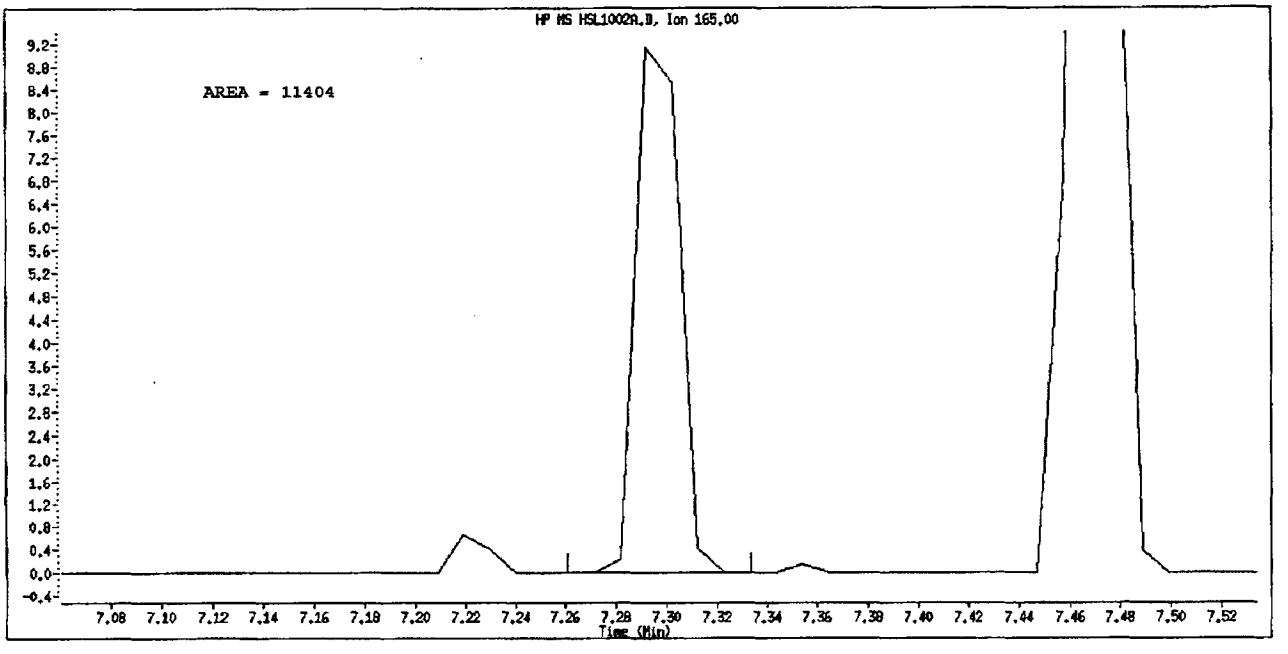
Manual Integration

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

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
Lab Smp Id: HSL_005 ug/ml CS-1 Client Smp ID: 8270F.M
Inj Date : 02-OCT-2010 12:27
Operator : KT Inst ID: sv5.i
Smp Info : HSL_005 ug/ml CS-1;1;;1;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SV5

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002A.D
Lab Smp Id: HSL_005 ug/ml CS-1
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

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

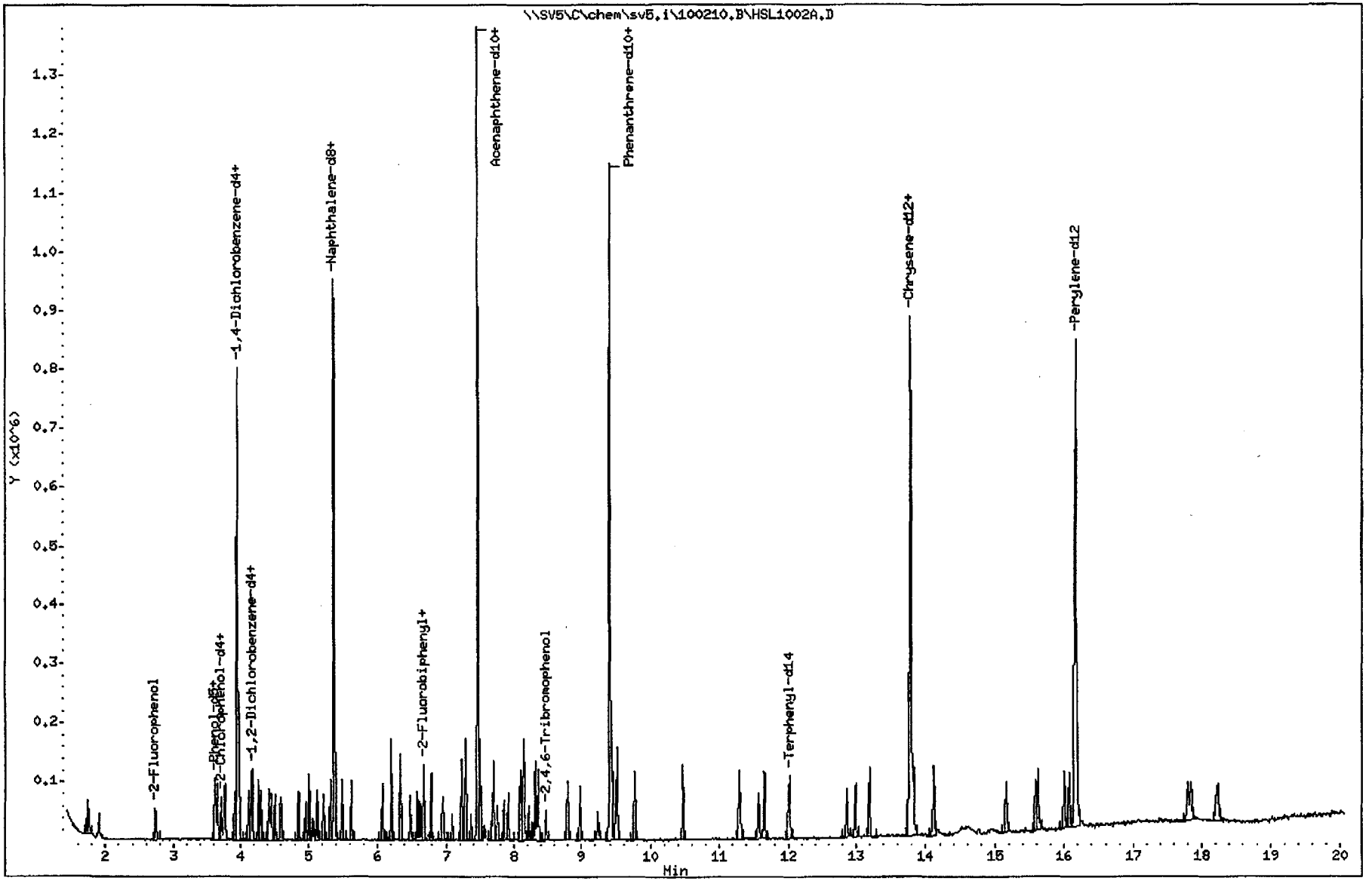
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
Date : 02-OCT-2010 12:27
Client ID: 8270F.M
Sample Info: HSL_005 ug/ml CS-1;1;;1;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002B.D
Lab Smp Id: HSL_010 ug/ml CS-2 Client Smp ID: 8270F.M
Inj Date : 02-OCT-2010 12:53
Operator : KT Inst ID: sv5.i
Smp Info : HSL_010 ug/ml CS-2;1;;2;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

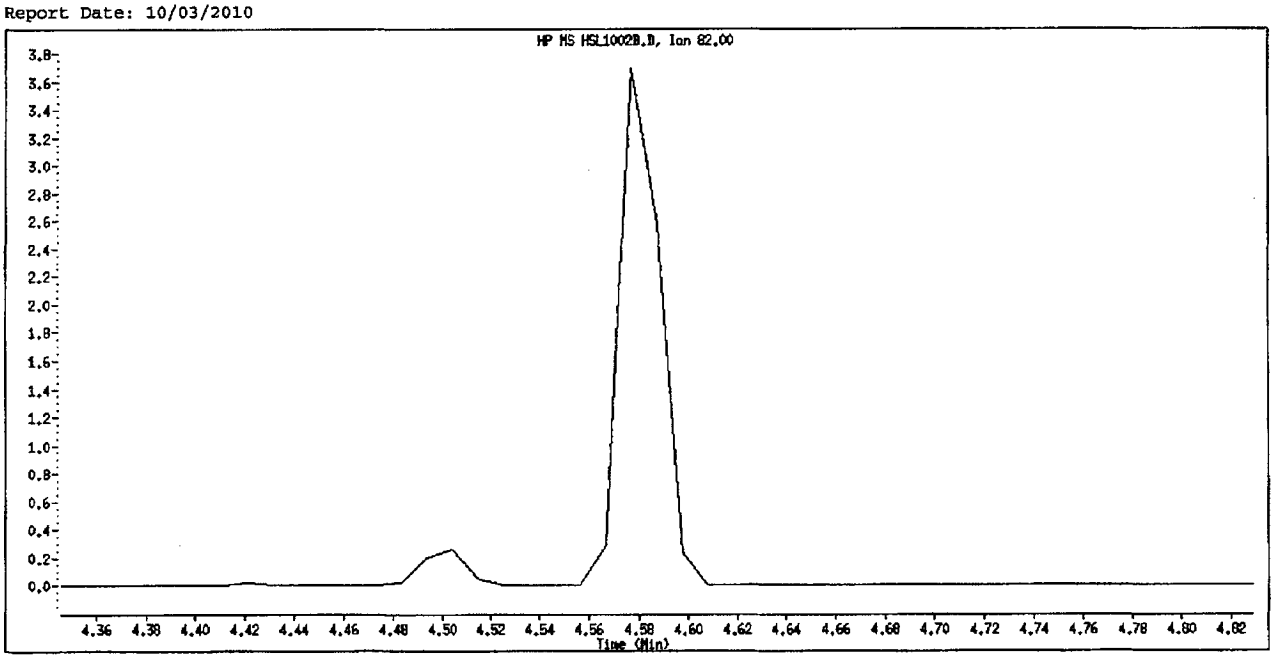
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.418
51 1,2,4-Trichlorobenzene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

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

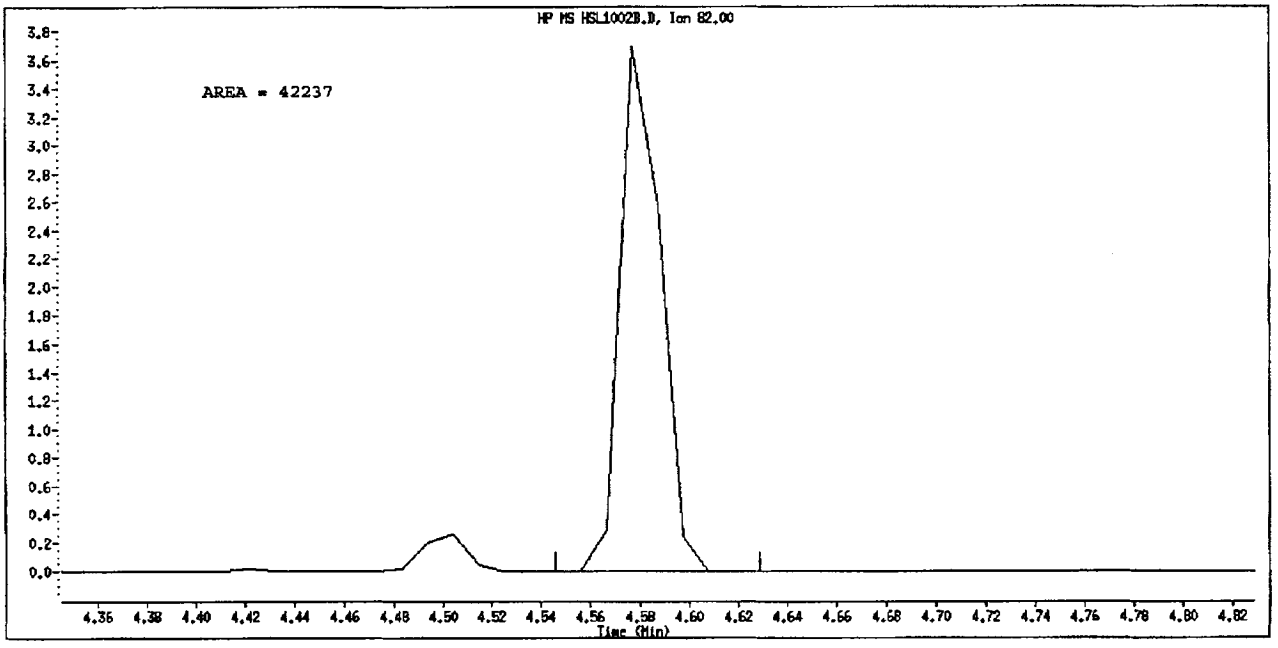
QC Flag Legend

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

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



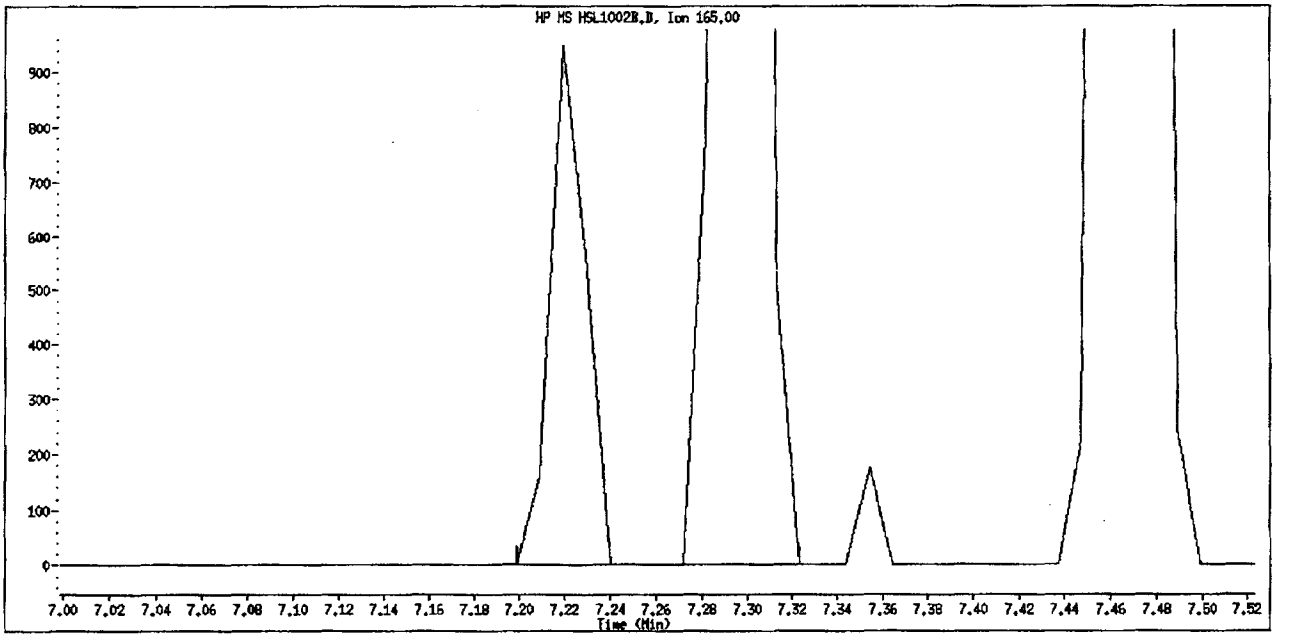
Original Integration



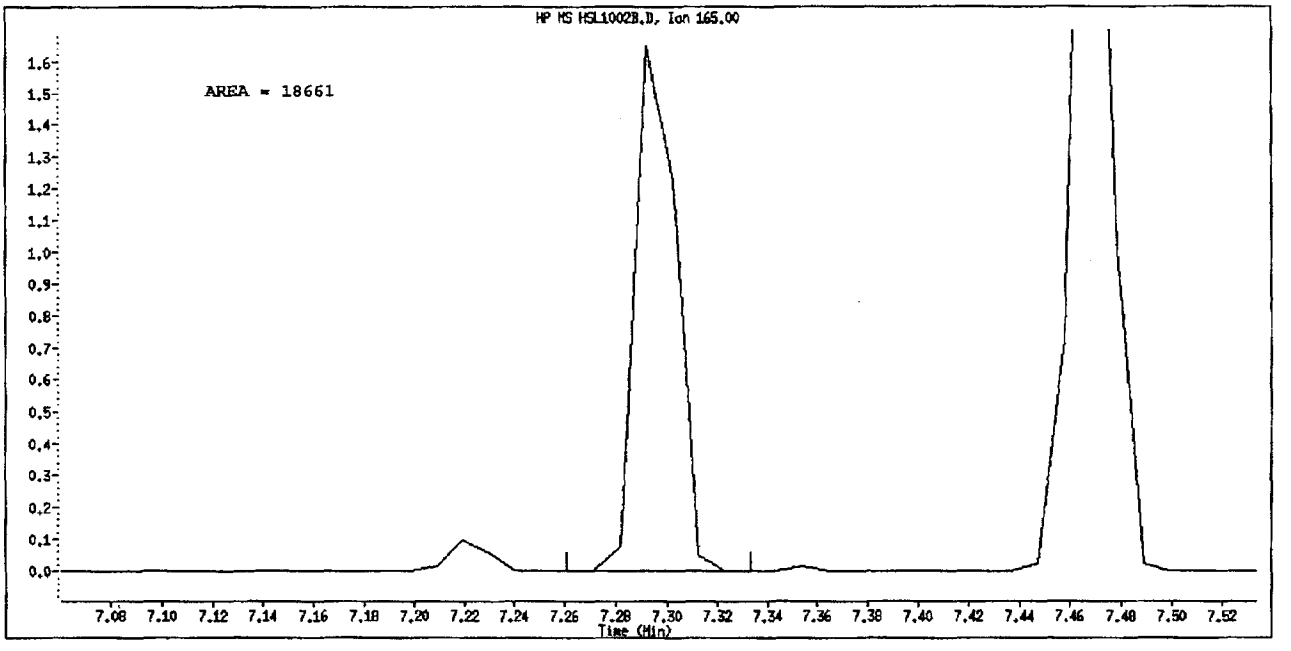
Manual Integration

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

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

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

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

10-3-10

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002B.D
Lab Smp Id: HSL_010 ug/ml CS-2
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

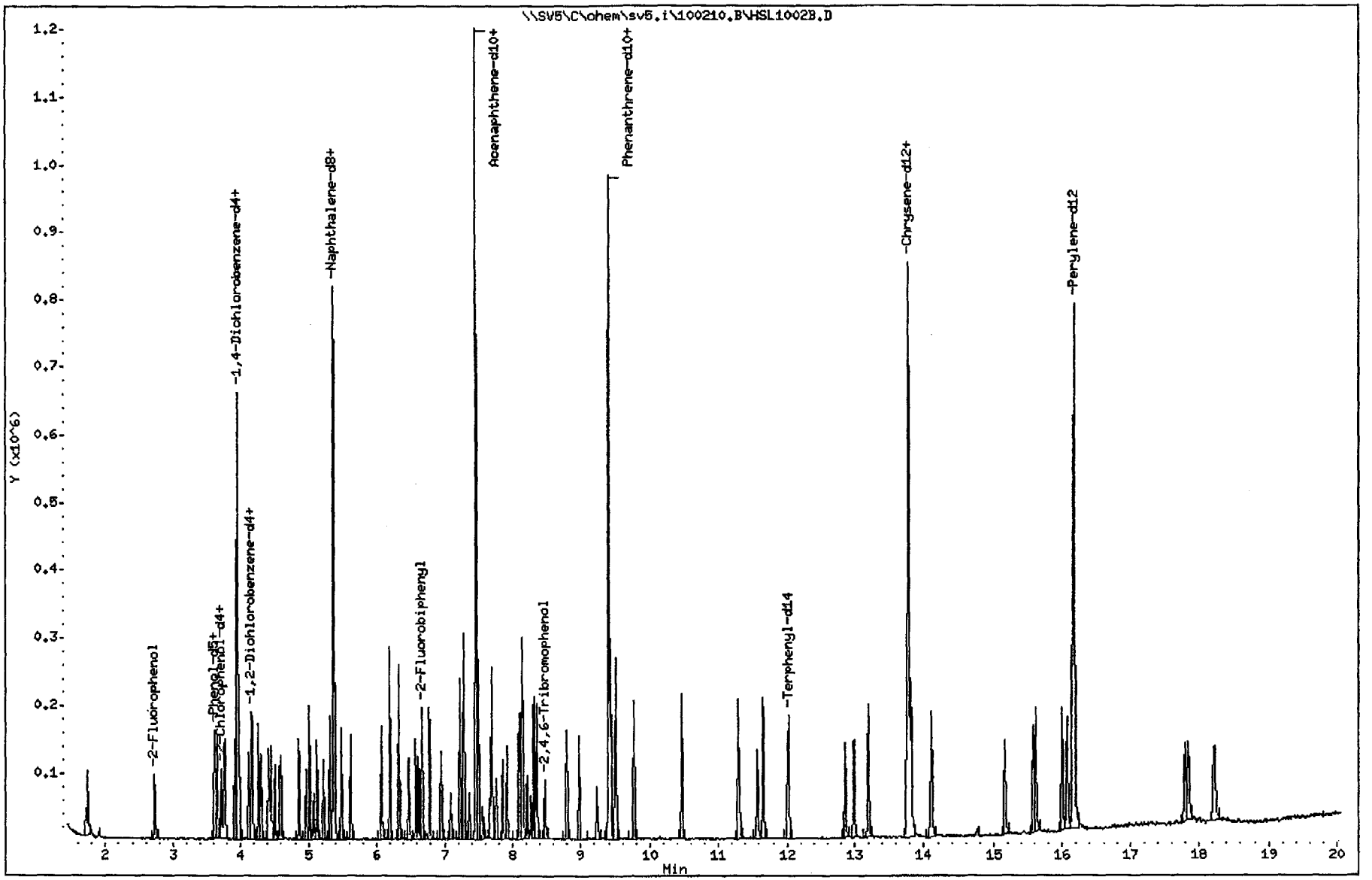
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.19
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D
Date : 02-OCT-2010 12:53
Client ID: 8270F.M
Sample Info: HSL_010 ug/ml CS-2;1;;2;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

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

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

10-3-10

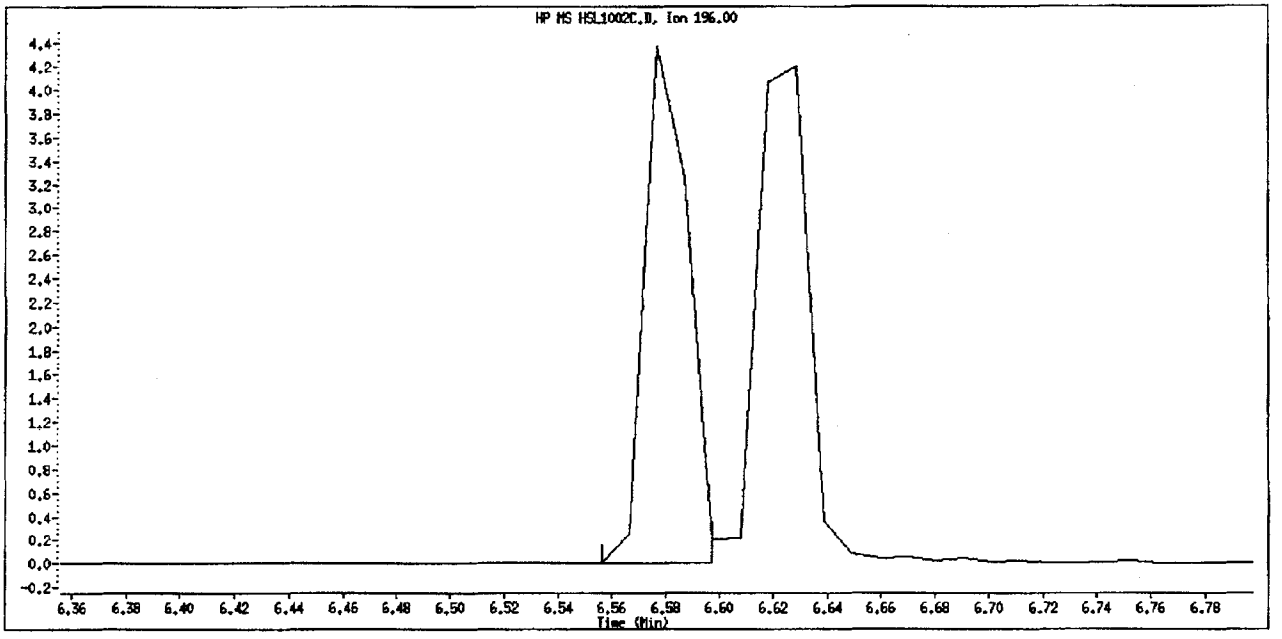
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49	2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50	Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51	1,2,4-Trichlorobenzene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

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

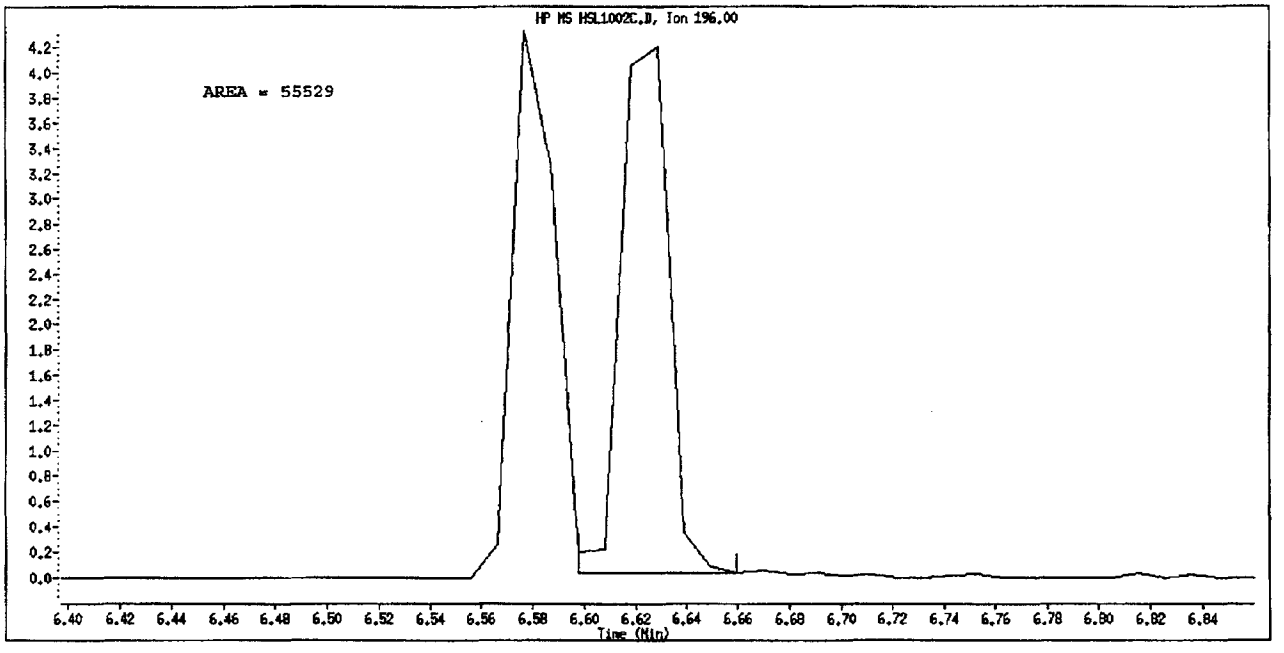
QC Flag Legend

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

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



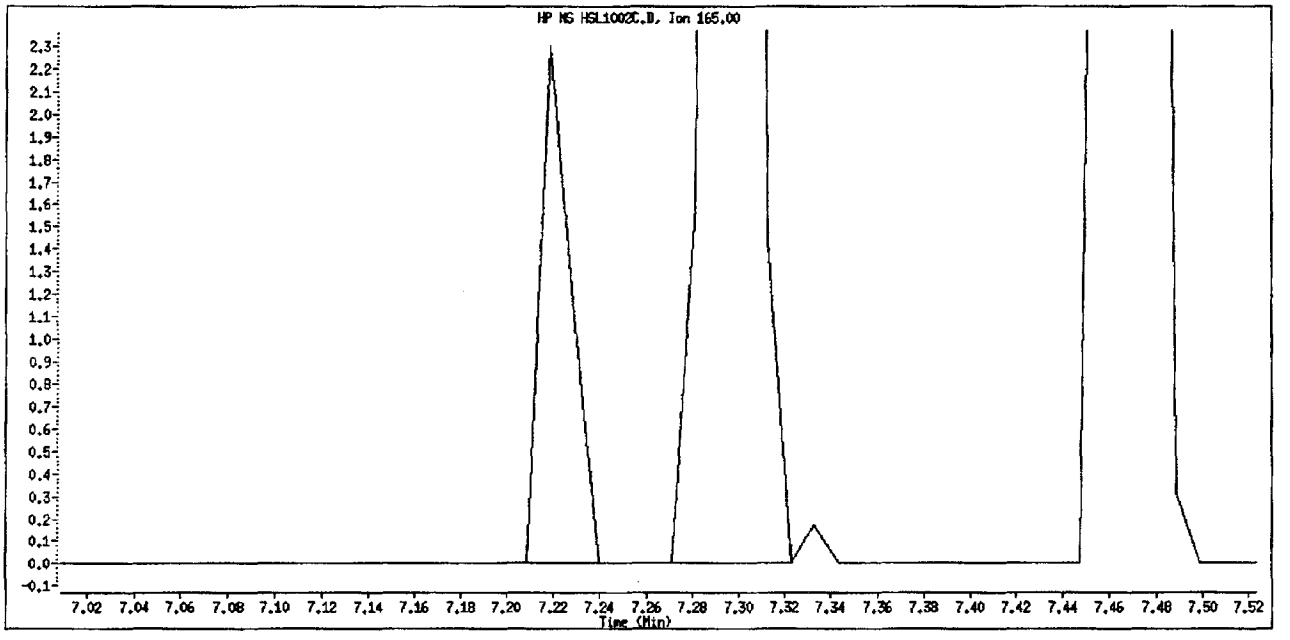
Original Integration



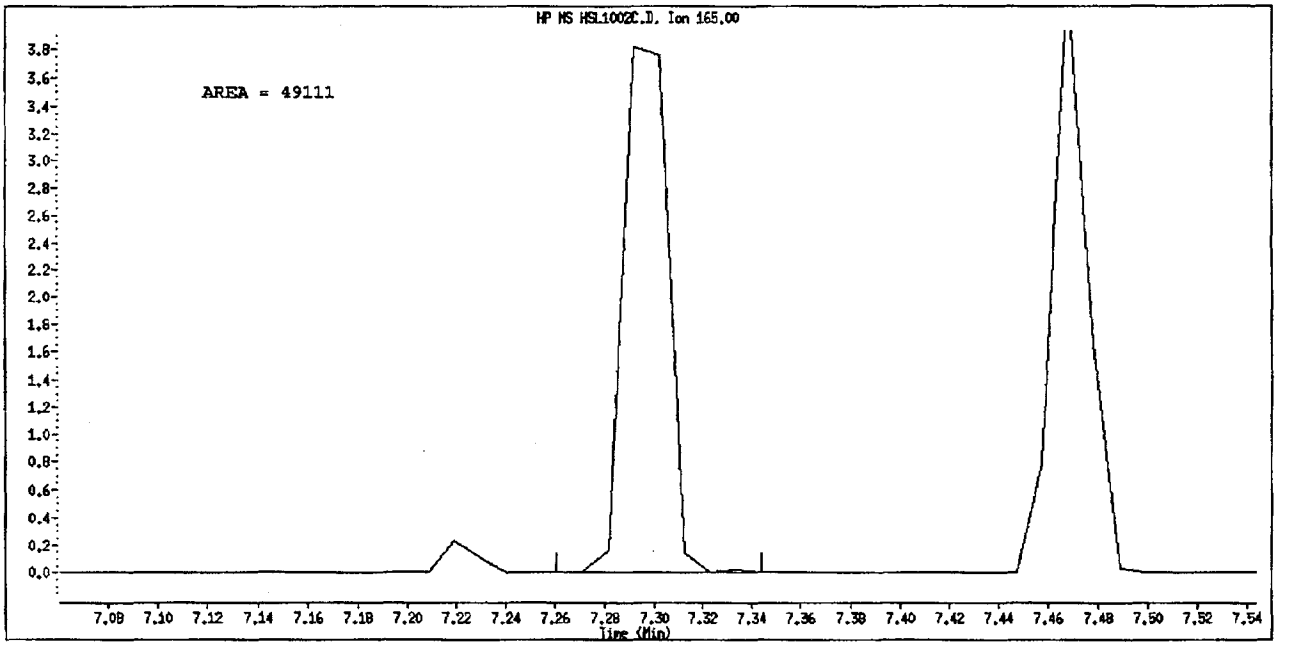
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

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

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002C.D
Lab Smp Id: HSL_020 ug/ml CS-3
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D

Date : 02-OCT-2010 13:18

Client ID: 8270F.H

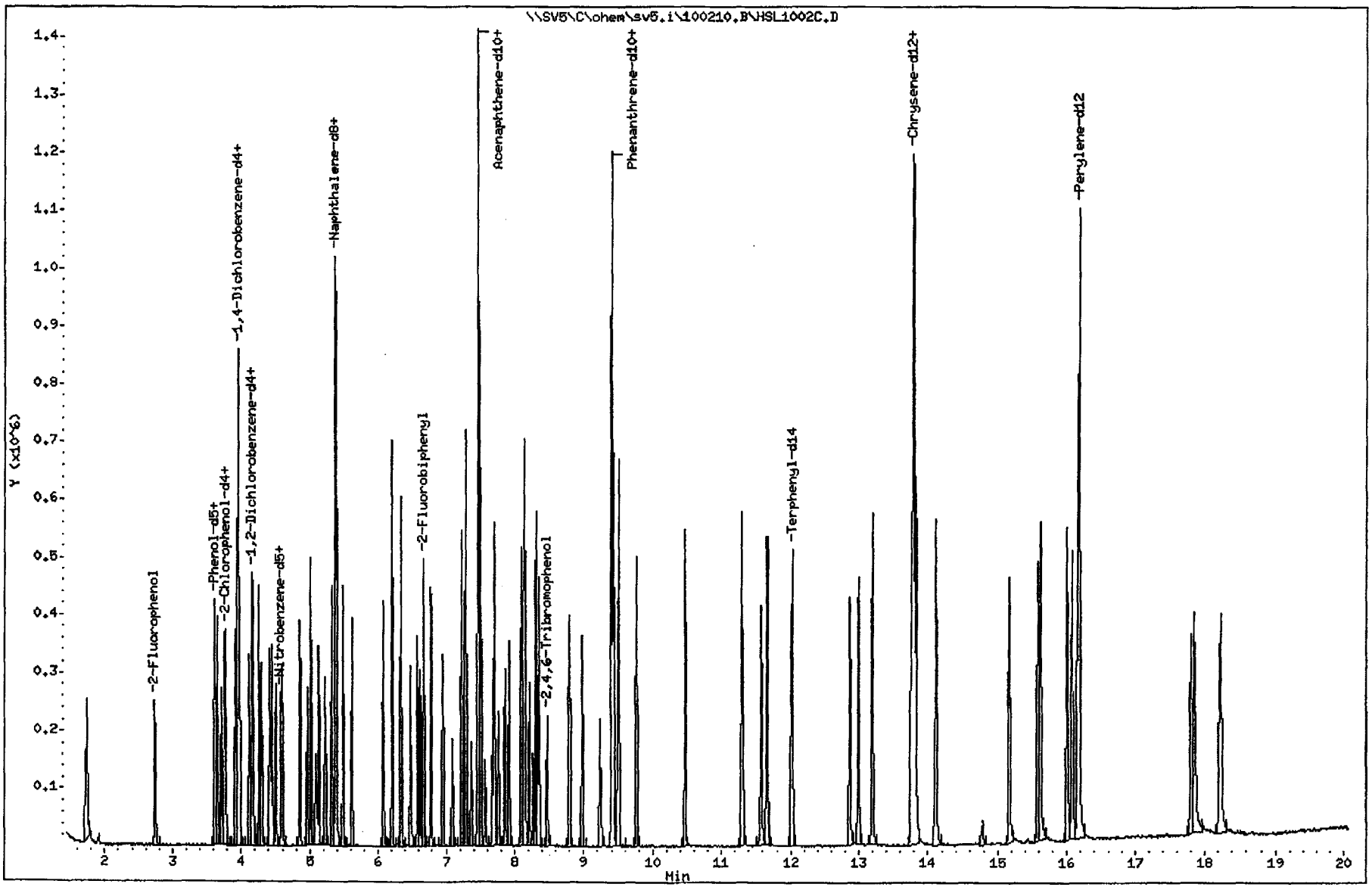
Sample Info: HSL_020 ug/ml CS-3;1;;3;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 02-OCT-2010 13:44
Operator : KT Inst ID: sv5.i
Smp Info : HSL_050 ug/ml CS-4;1;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

10-3-10

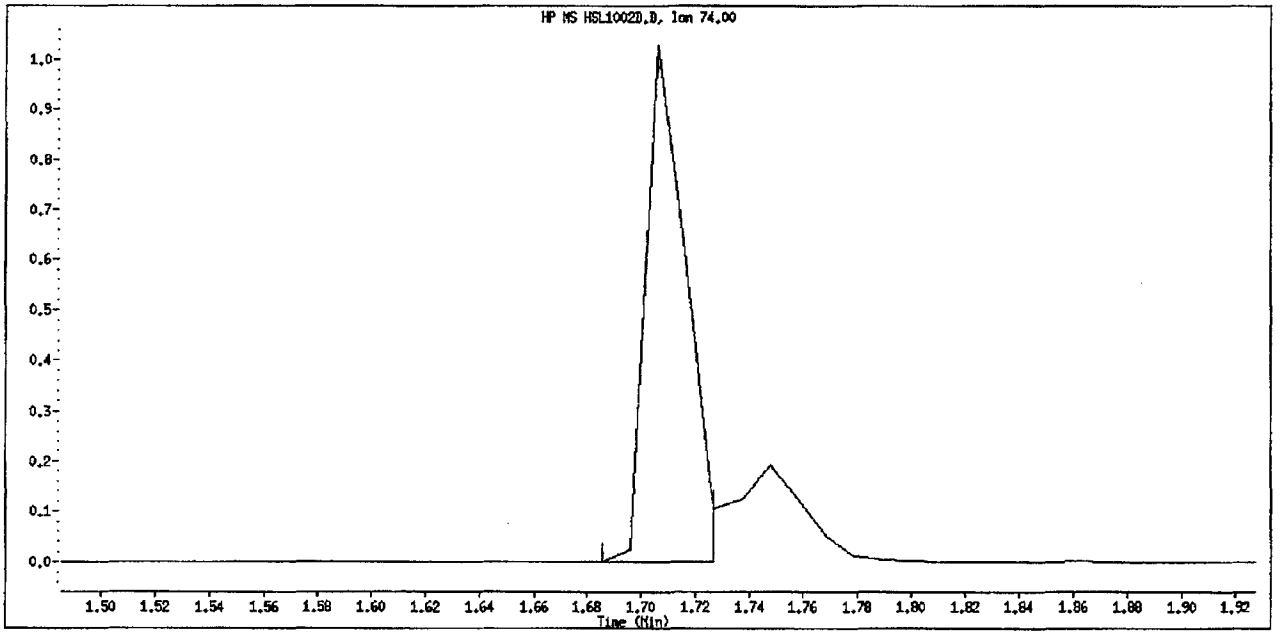
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.990)	197265	50.0000	50.86
52 Naphthalene	128	5.395	5.395	(1.004)	724980	50.0000	49.49
54 4-Chloroaniline	127	5.488	5.488	(1.021)	291184	50.0000	50.72
57 Hexachlorobutadiene	225	5.613	5.613	(1.044)	95592	50.0000	50.36
60 4-Chloro-3-Methylphenol	107	6.069	6.069	(1.129)	205388	50.0000	51.34
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	464646	50.0000	50.50
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	104908	50.0000	49.76
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	113001	50.0000	50.13
70 2,4,5-Trichlorphenol	196	6.628	6.628	(0.888)	128196	50.0000	52.79
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	403257	50.0000	50.72
73 2-Nitroaniline	65	6.949	6.949	(0.931)	124335	50.0000	51.59
76 Dimethylphthalate	163	7.229	7.229	(0.968)	475258	50.0000	51.91
77 Acenaphthylene	152	7.281	7.281	(0.975)	712158	50.0000	51.43
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.978)	110261	50.0000	51.69
80 3-Nitroaniline	138	7.447	7.447	(0.997)	141396	50.0000	53.11
81 Acenaphthene	153	7.509	7.509	(1.006)	448691	50.0000	50.90
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	58864	50.0000	47.37
83 Dibenzofuran	168	7.706	7.706	(1.032)	598735	50.0000	51.18
84 4-Nitrophenol	109	7.675	7.675	(1.028)	56777	50.0000	51.41
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	148875	50.0000	53.18
91 Fluorene	166	8.131	8.131	(1.089)	494097	50.0000	51.01
92 Diethylphthalate	149	8.100	8.100	(1.085)	487067	50.0000	51.96
93 4-Chlorophenyl-phenylether	204	8.152	8.152	(1.092)	209308	50.0000	51.97
94 4-Nitroaniline	138	8.214	8.214	(1.100)	135397	50.0000	51.31
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	76137	50.0000	46.58
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	409666	58.6000	58.41
100 Azobenzene	77	8.348	8.348	(0.888)	459960	50.0000	50.55
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	115283	50.0000	51.04
108 Hexachlorobenzene	284	8.981	8.981	(0.955)	124963	50.0000	49.54
110 Pentachlorophenol	266	9.240	9.240	(0.982)	67882	50.0000	45.48
114 Phenanthrene	178	9.437	9.437	(1.003)	718164	50.0000	49.24
115 Anthracene	178	9.499	9.499	(1.010)	728681	50.0000	50.01
118 Carbazole	167	9.768	9.768	(1.039)	660885	50.0000	49.65
120 Di-n-Butylphthalate	149	10.463	10.463	(1.112)	799142	50.0000	49.90
126 Fluoranthene	202	11.302	11.302	(1.202)	639252	50.0000	48.92
127 Benzidine	184	11.571	11.571	(0.840)	450332	50.0000	50.98
128 Pyrene	202	11.665	11.665	(0.847)	701084	50.0000	51.46
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	385489	50.0000	49.44
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	340978	50.0000	49.94
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	569271	50.0000	49.03
139 Chrysene	228	13.831	13.831	(1.004)	597685	50.0000	50.33
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	217413	50.0000	49.65
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	464144	50.0000	49.35
142 Di-n-octylphthalate	149	15.167	15.167	(1.101)	732406	50.0000	48.72
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	527487	50.0000	55.18
145 Benzo(k)fluoranthene	252	15.623	15.623	(0.967)	580084	50.0000	47.27
147 Benzo(e)pyrene	252	16.007	16.007	(0.990)	506622	50.0000	50.82
148 Benzo(a)pyrene	252	16.079	16.079	(0.995)	542578	50.0000	50.06
151 Indeno(1,2,3-cd)pyrene	276	17.800	17.800	(1.101)	447085	50.0000	51.00(M)
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	486893	50.0000	49.72
153 Benzo(g,h,i)perylene	276	18.235	18.235	(1.128)	527720	50.0000	49.77

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

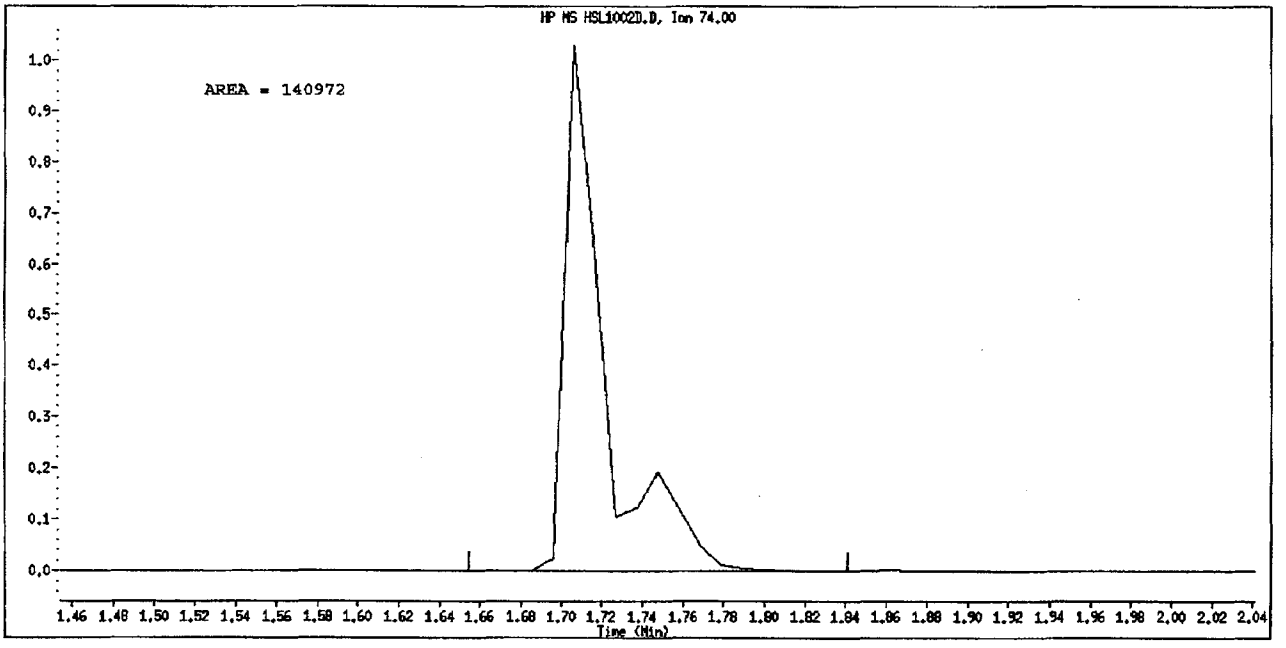
QC Flag Legend

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

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



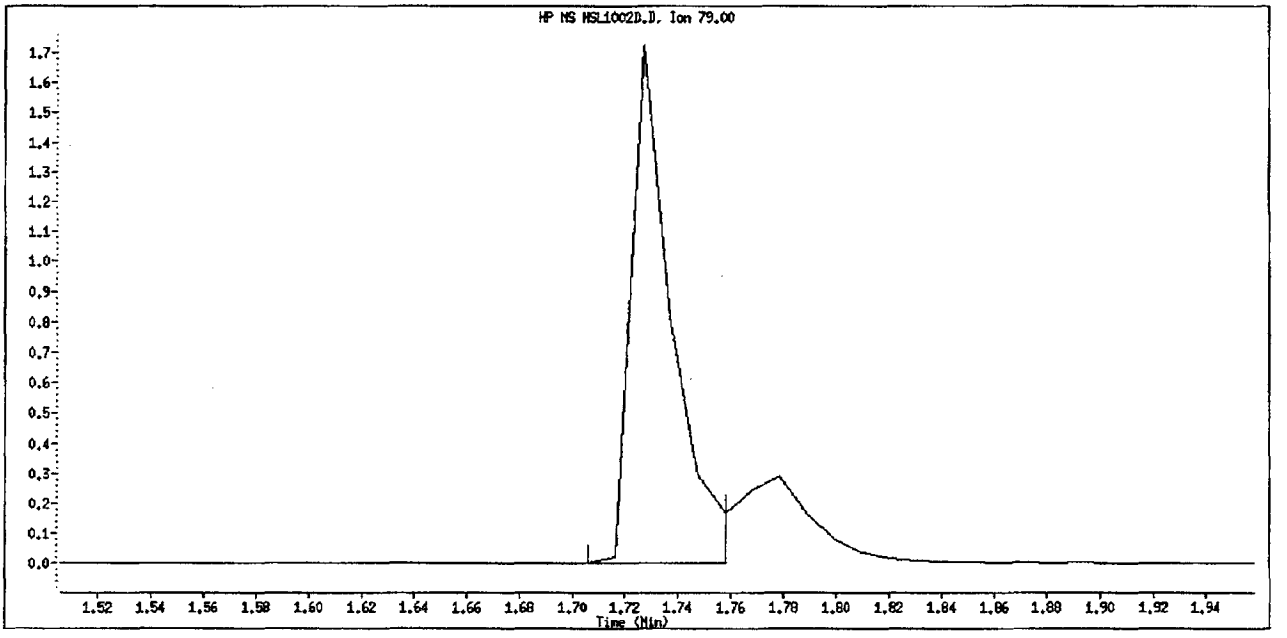
Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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



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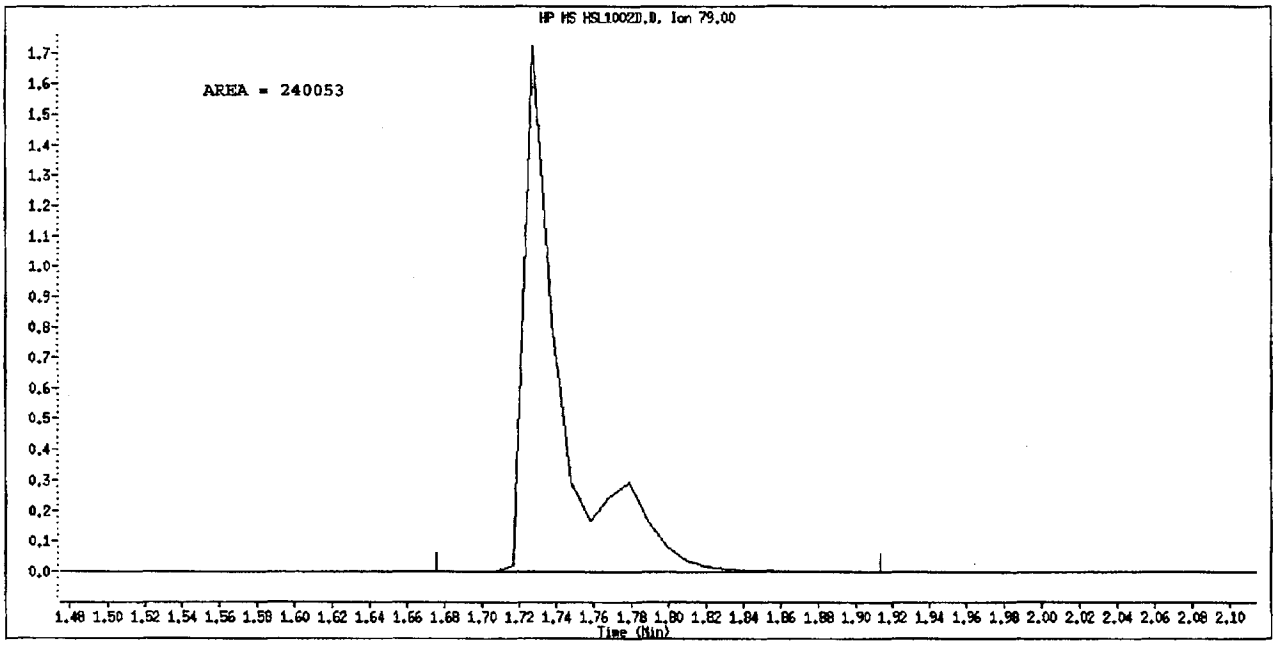
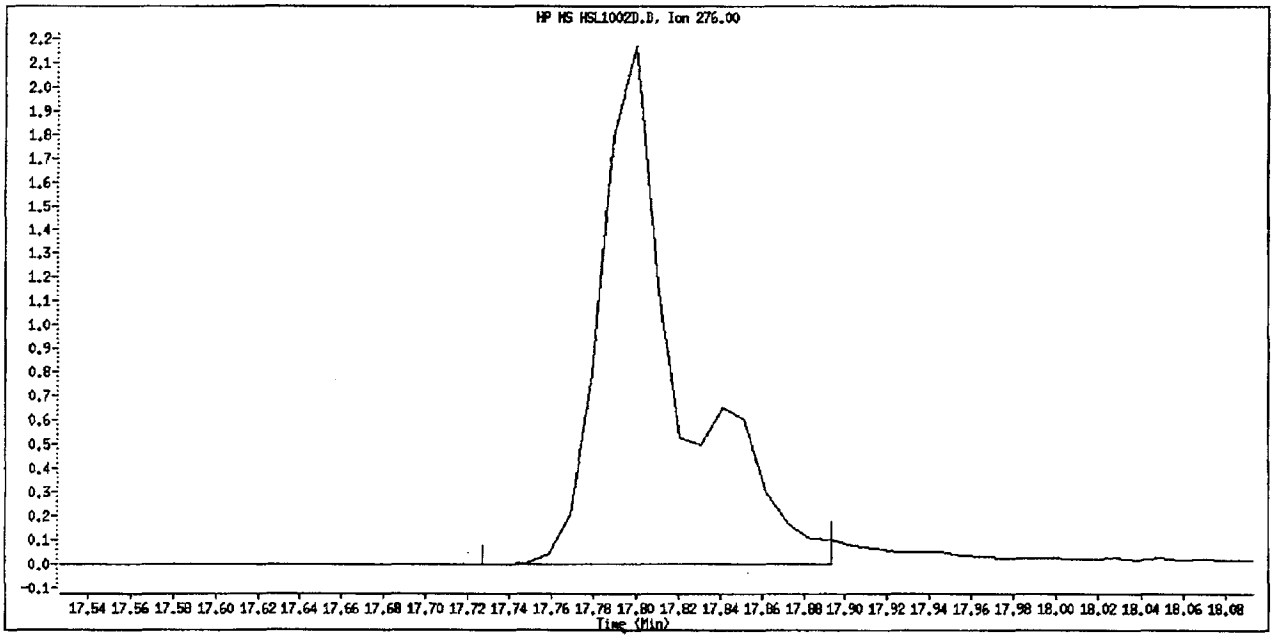


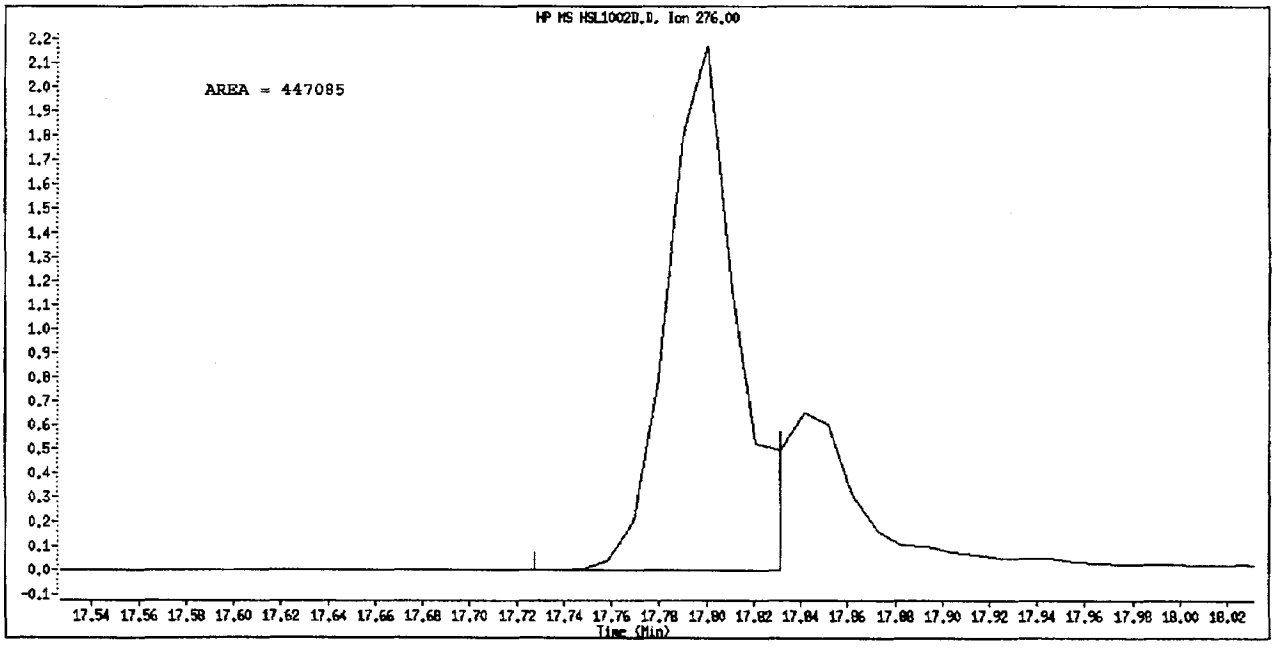
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

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

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002D.D
Lab Smp Id: HSL_050 ug/ml CS-4
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D

Date : 02-OCT-2010 13:44

Client ID: 8270F.M

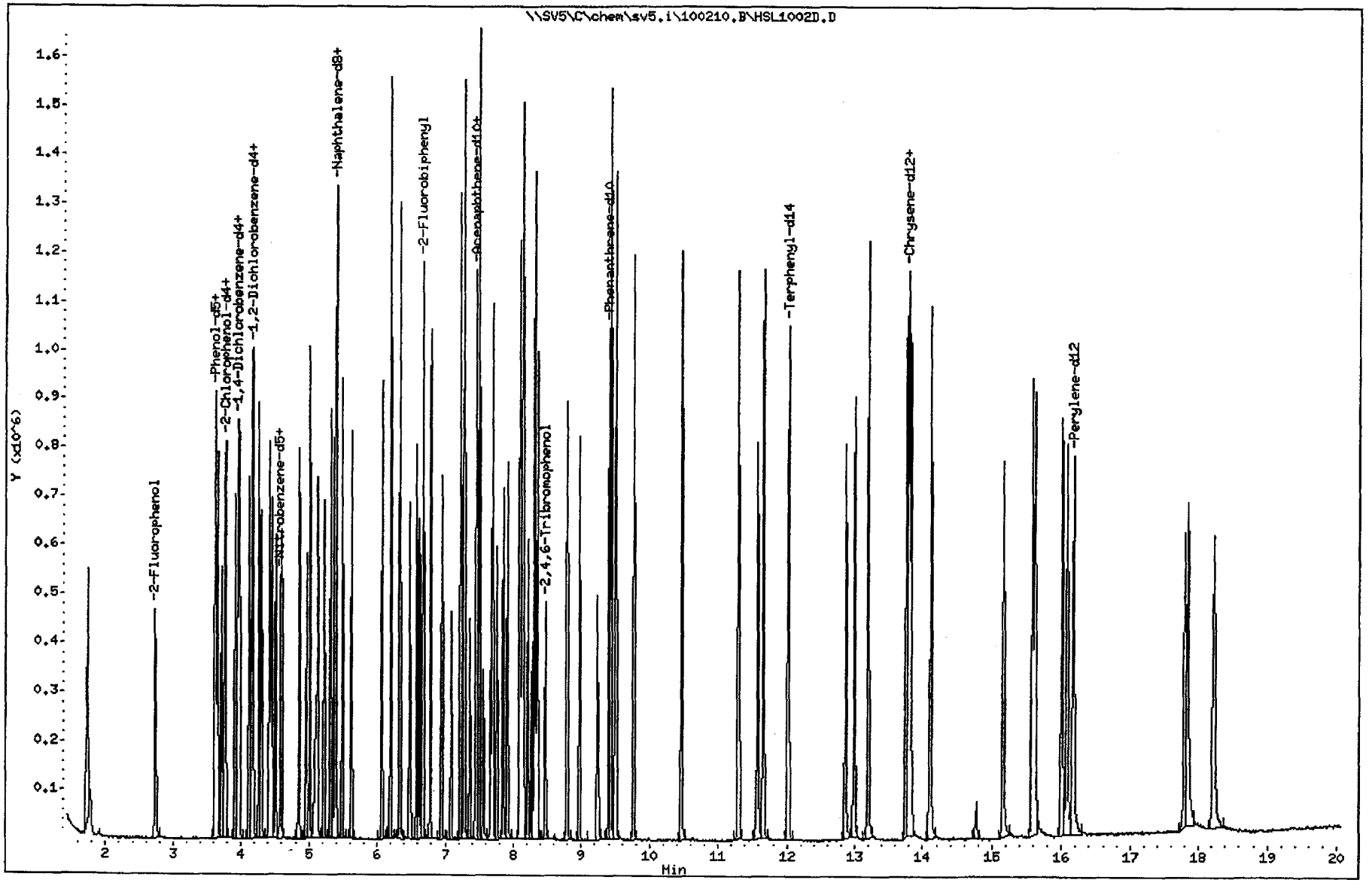
Sample Info: HSL_050 ug/ml CS-4;1;;4;;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

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

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

10-3-10

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

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

QC Flag Legend

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

TestAmerica West Sacramento

Method 8270C

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

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002E.D
Lab Smp Id: HSL_080 ug/ml CS-5
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

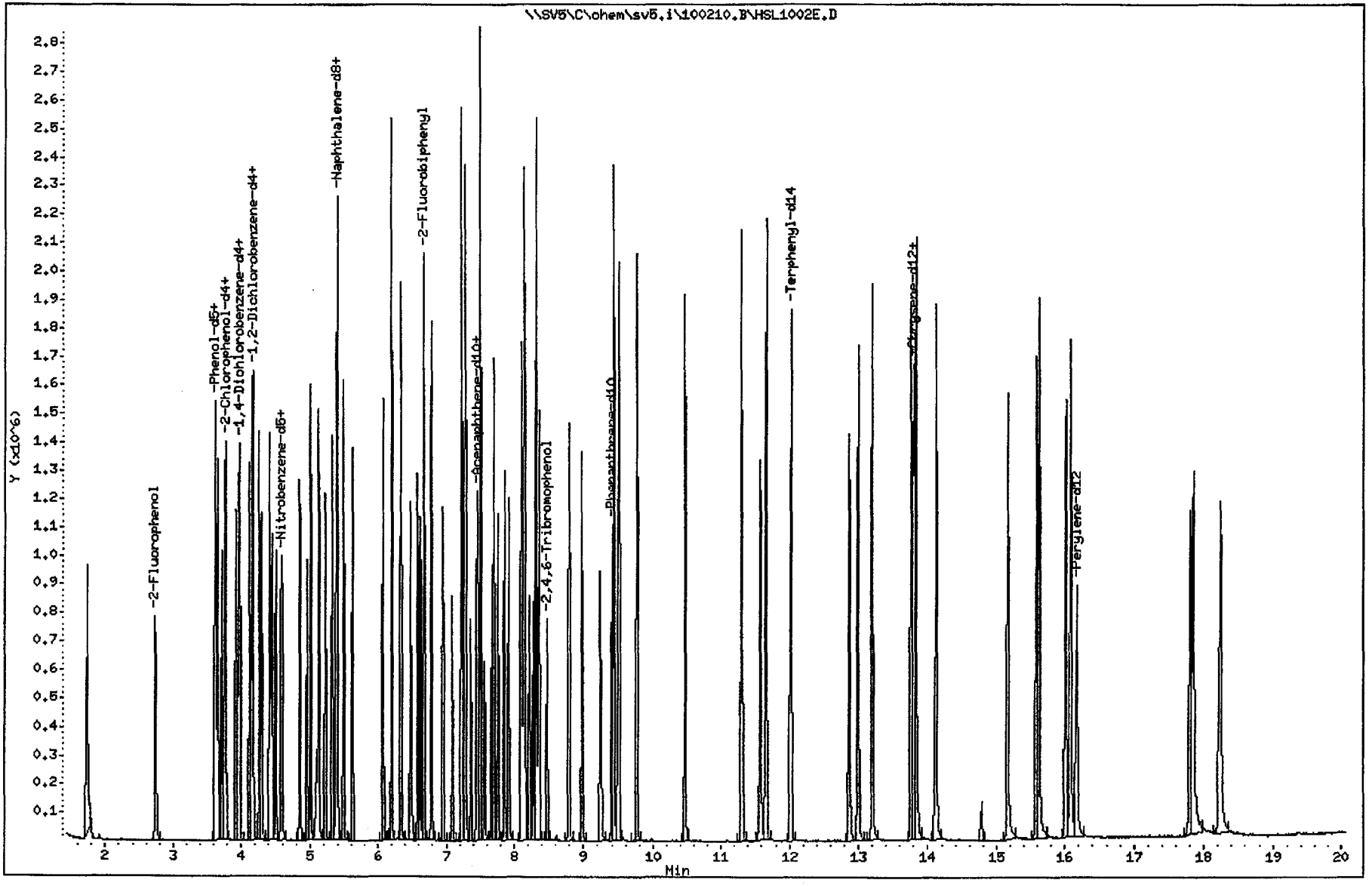
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D
Date : 02-OCT-2010 14:09
Client ID: 8270F.M
Sample Info: HSL_080 ug/ml CS-5;1;;5;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D
Lab Smp Id: HSL_120 ug/ml CS-6 Client Smp ID: 8270F.M
Inj Date : 02-OCT-2010 14:35
Operator : KT Inst ID: sv5.i
Smp Info : HSL_120 ug/ml CS-6;1;;6;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

10-3-10

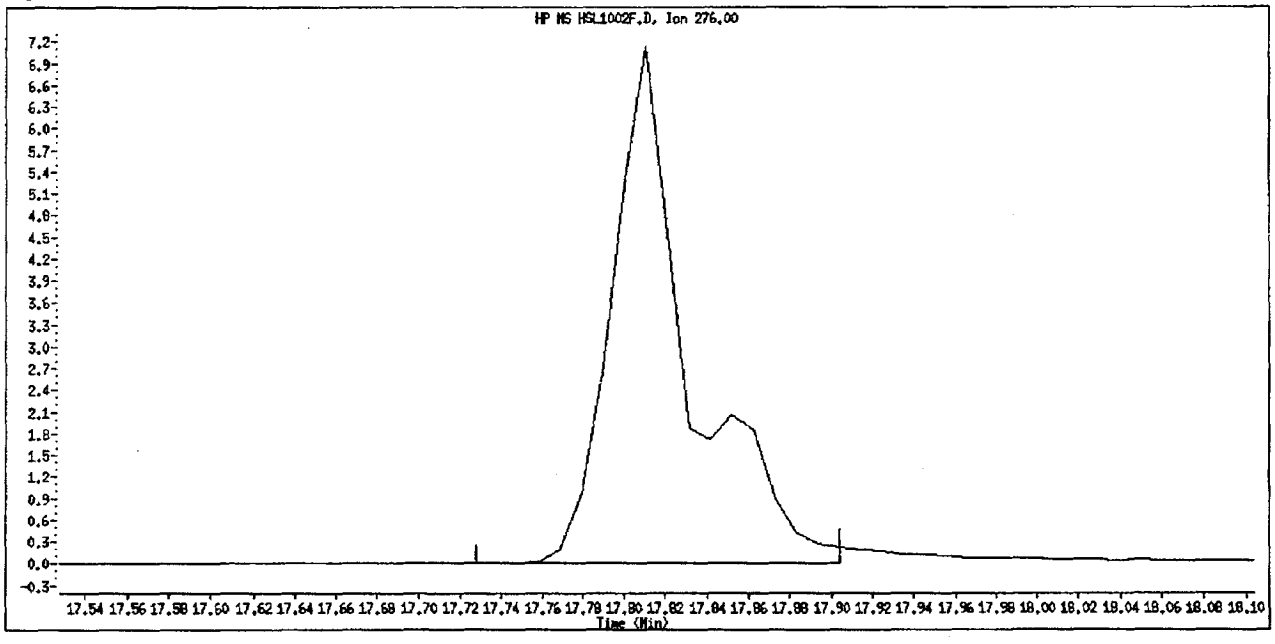
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9
49	2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2
50	Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3
51	1,2,4-Trichlorobenzene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

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

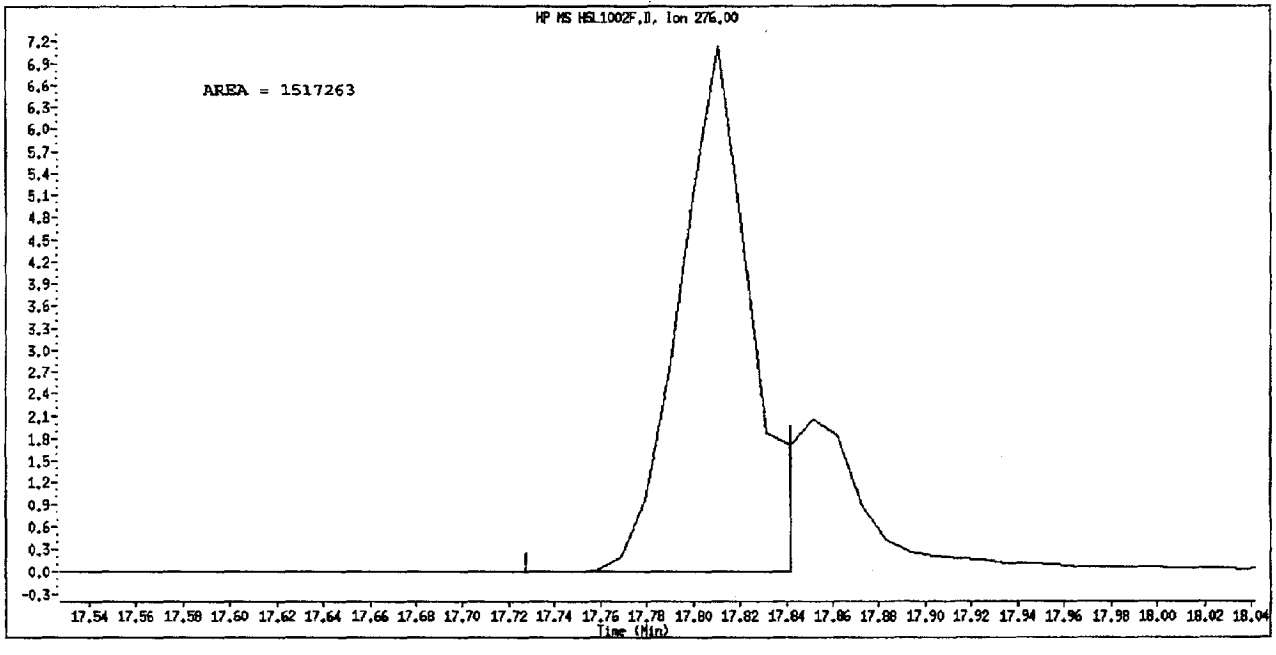
QC Flag Legend

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

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

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

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002F.D
Lab Smp Id: HSL_120 ug/ml CS-6
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

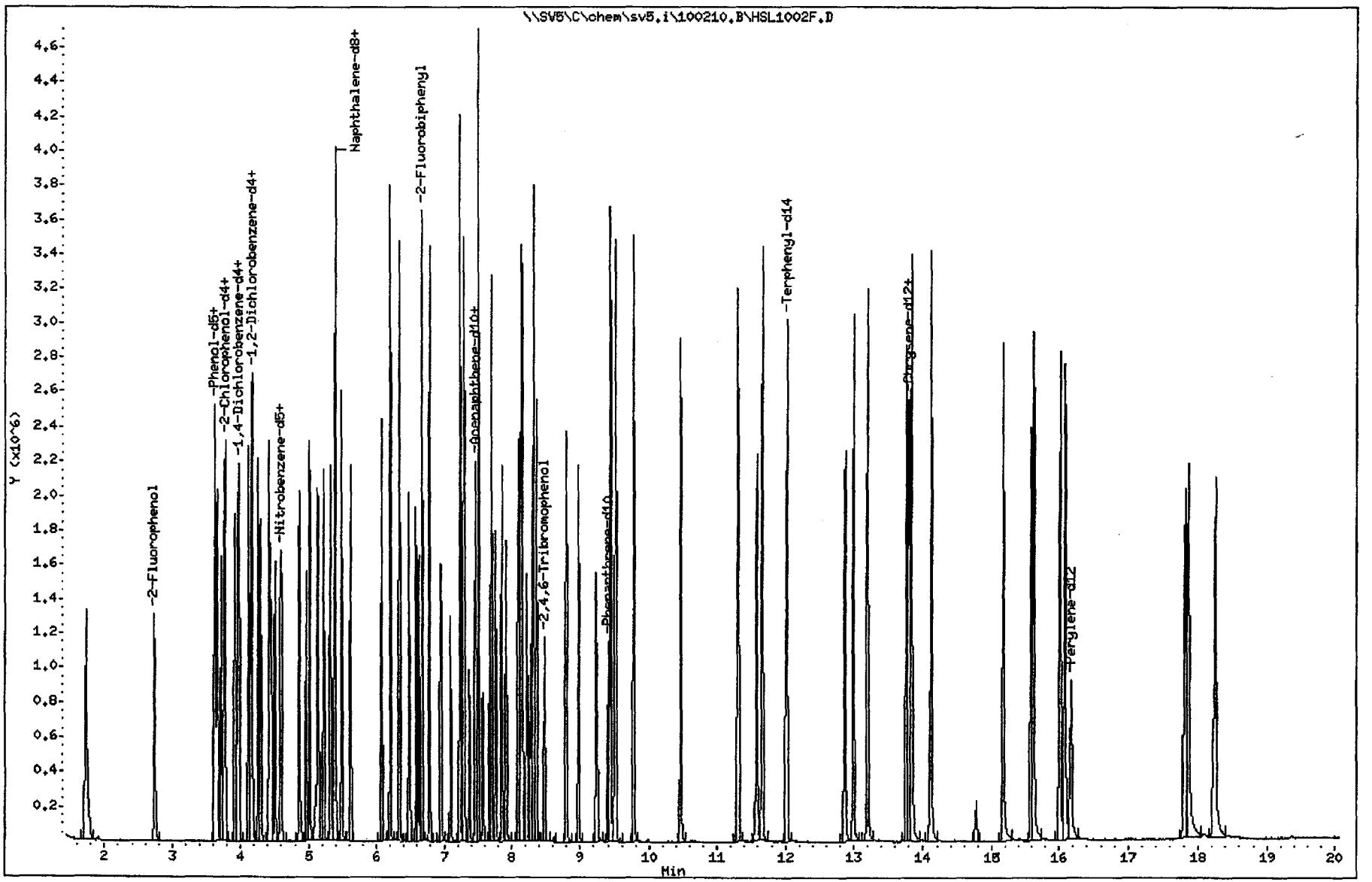
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.08
6 Perylene-d12	16.16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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D
Date : 02-OCT-2010 14:38
Client ID: 8270F.M
Sample Info: HSL_120 ug/ml CS-6;1;;6;;;;;4

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

Column phase:



TestAmerica West Sacramento

Method 8270C

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

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

10-3-10

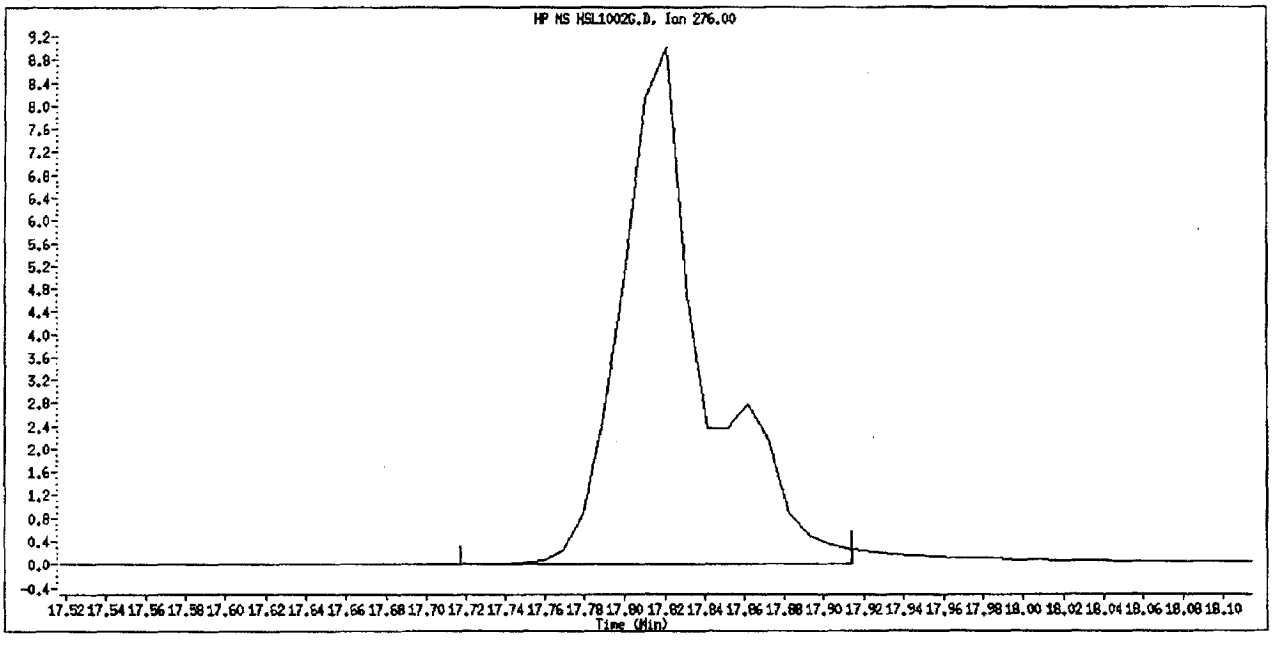
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	164.7(A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	183.6(A)
51 1,2,4-Trichlorobenzene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

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

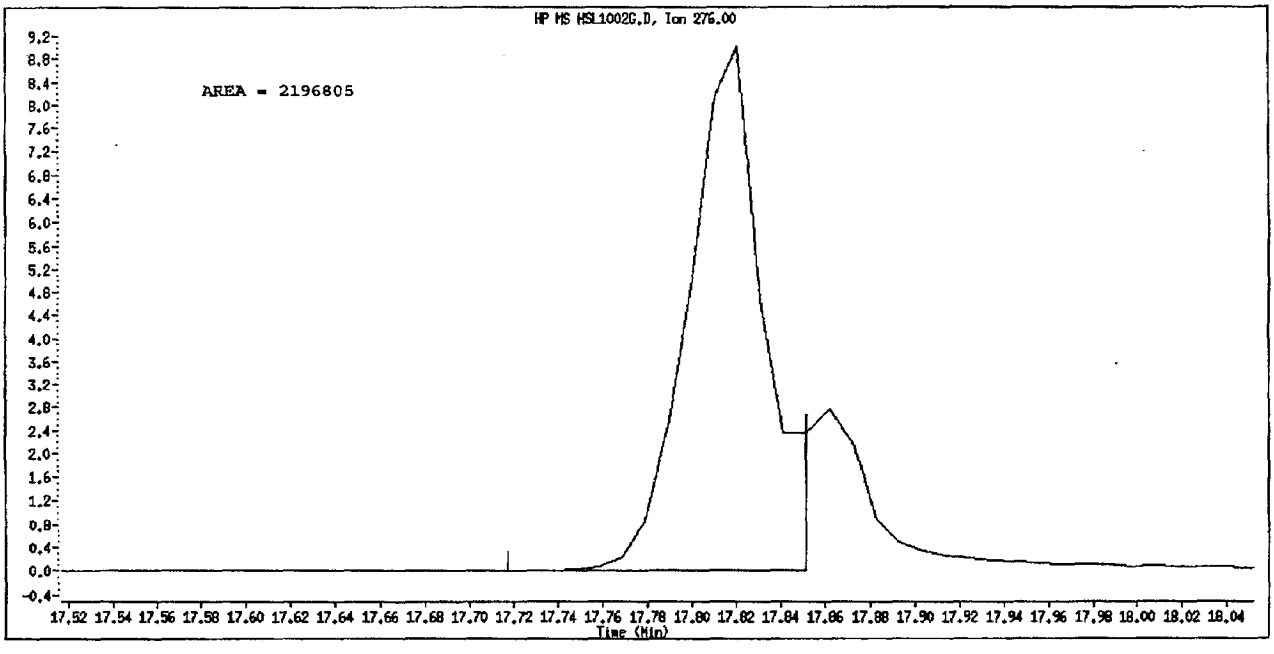
QC Flag Legend

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

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

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

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

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

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

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002G.D
Lab Smp Id: HSL_160 ug/ml CS-7
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

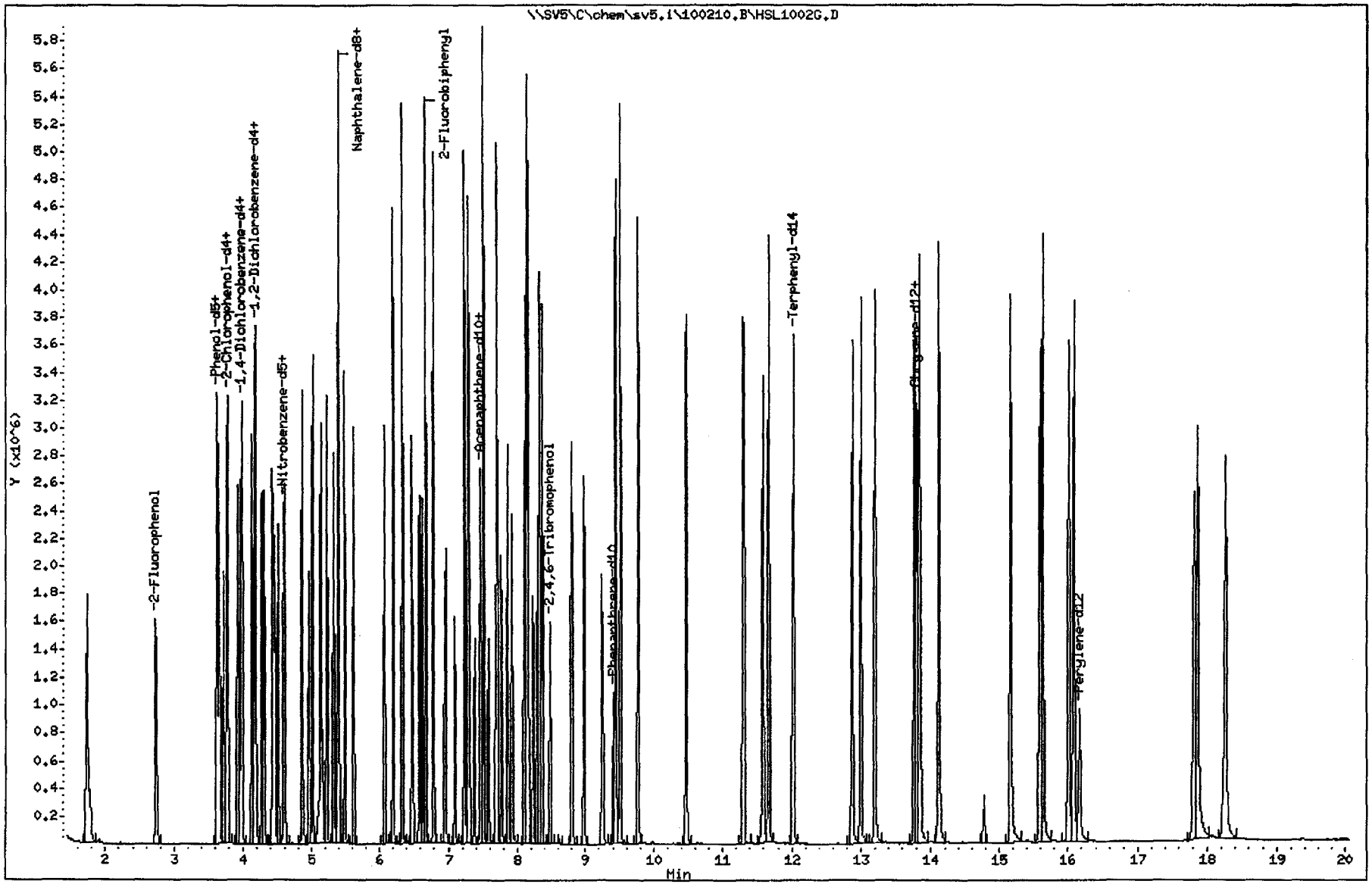
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.48	0.14
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
Date : 02-OCT-2010 15:00
Client ID: 8270F.M
Sample Info: HSL_160 ug/ml CS-7;1;;7;;;;4

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

Column phase:



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

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

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

10/3/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

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

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

See NI

See RD

10/3/10

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Lab Smp Id: HSL_050 ug/ml ICV Client Smp ID: 8270F.M
Inj Date : 02-OCT-2010 16:11
Operator : KT Inst ID: sv5.i
Smp Info : HSL_050 ug/ml ICV;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:20 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1_8270STD.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

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

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

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002H.D
Lab Smp Id: HSL_050 ug/ml ICV
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

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

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

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002H.D

Date : 02-OCT-2010 16:11

Client ID: 8270F.M

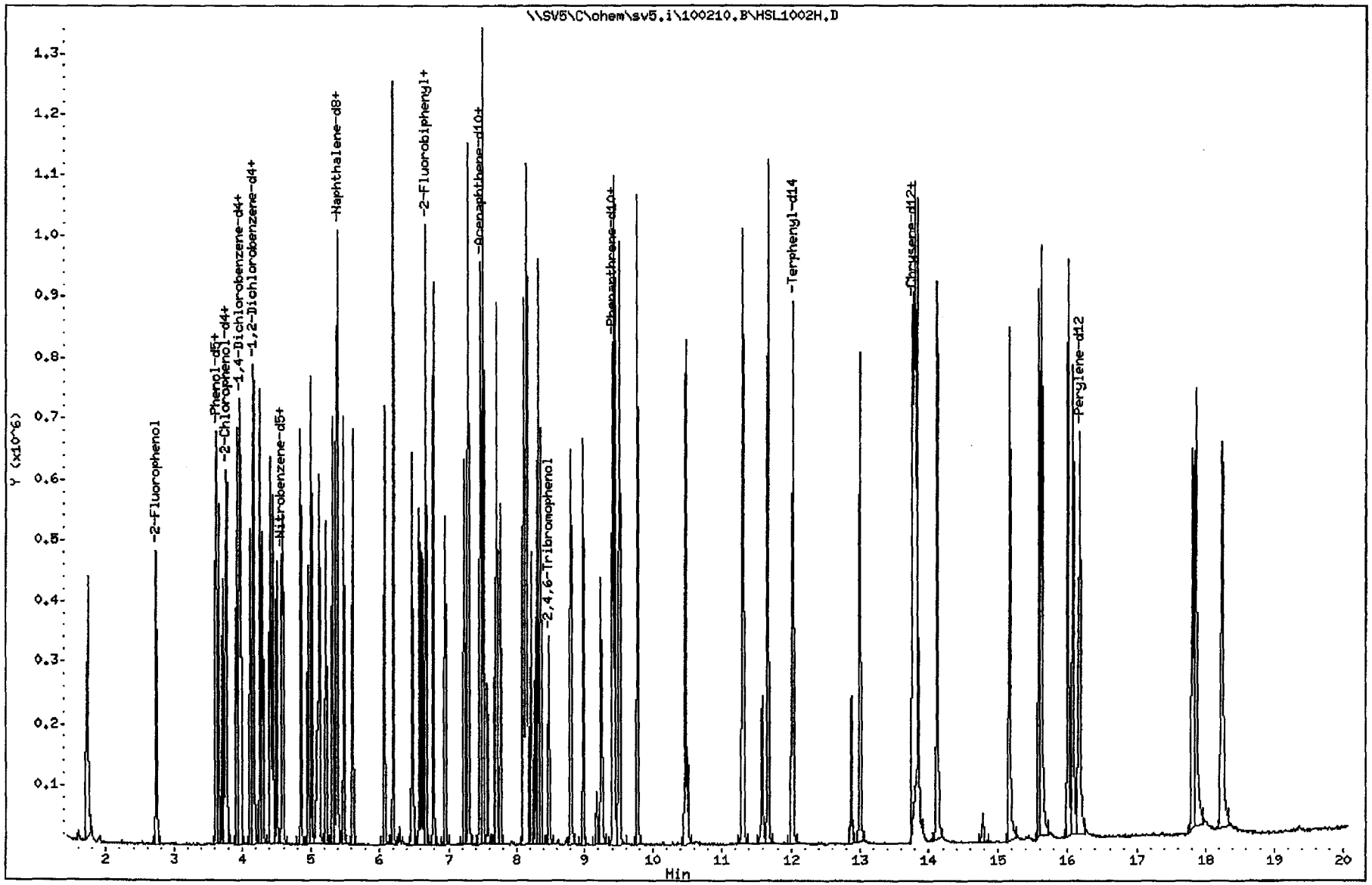
Sample Info: HSL_050 ug/ml ICV;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

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

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

10-3-10

TestAmerica West Sacramento

Method 8270C

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

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002H1.D
Lab Smp Id: Benzidines ICV 50ug
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

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

Test Mode:
Use Initial Calibration Level 4.

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

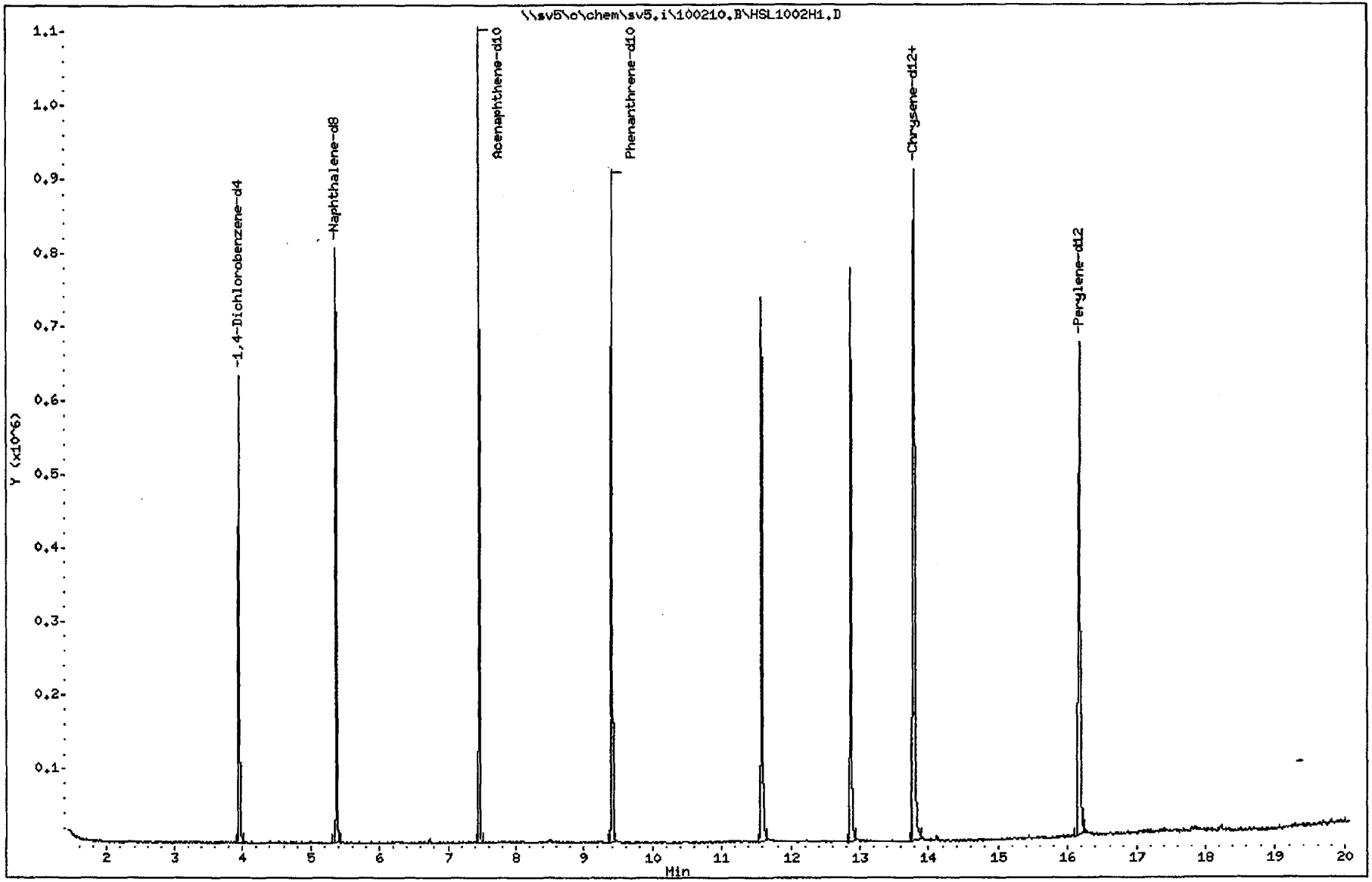
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.36	4.86	5.86	5.36	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16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

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

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D
Date : 02-OCT-2010 16:36
Client ID: 8270F.M
Sample Info: Benzidines ICV 50ug/mL;2;;4;;;;;4

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

Column phase:



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

10/3/10

Original RRF

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

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

TestAmerica West Sacramento

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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

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

TestAmerica West Sacramento

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

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

TestAmerica West Sacramento

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

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

TestAmerica West Sacramento

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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
114 Phenanthrene	1.30347	1.26007	1.25408	1.24163	1.24375	1.25610		
	1.26611						1.26074	1.643
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214		
	1.26958						1.25955	2.129
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192		
	1.16455						1.15061	1.878
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847		
	1.48636						1.38442	4.973
126 Fluoranthene	1.03840	1.07611	1.17216	1.10520	1.15861	1.18294		
	1.17440						1.12969	5.018
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375		
	0.86381						0.81067	5.606
128 Pyrene	1.25791	1.23783	1.17078	1.28684	1.25586	1.28463		
	1.25794						1.25025	3.122
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414		
	0.79926						0.71564	8.888
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233		
	0.64920						0.62663	3.950
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831		
	1.10920						1.06548	4.058
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241		
	1.12246						1.08994	2.594

TestAmerica West Sacramento

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Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

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

TestAmerica West Sacramento

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Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

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

Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento
Organic Prep Log
8270 Air

Box # Airtox #291

Shared QC Batch:

Shares QC With:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	12/9/10
Inst Receipt:	

Batch: 0342383
MS Run #:
Prep Date: 12/8/2010
Method: JZ TO-13
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: JZ - S - 11 - 3W

Prep Reagents		
Reagent	**Supplier**	**Lot #**
1:1 DCM:Acetone	NA	
DCM	Baker	J34S00
Na2SO4	Baker	

WS-OP-0006

Soxhlet time on: 1620 Soxhlet time off: 9:00 12/9/10

☒ XAD / PUF / PUF-XAD (circled)
☐ Filter
☐ Impinger

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume 1mL	Final Volume Other	Analysis Hold Time Expires
G0L080000 - 383	B	MA3AJ1AA	12/13/2010	1 Sa		NA	1/15/2011
G0L080000 - 383	C	MA3AJ1AC	12/13/2010	1 Sa			1/15/2011
G0L080000 - 383	L	MA3AJ1AD	12/13/2010	1 Sa			1/15/2011
G0L080454 - 9		MA12A1AA	12/13/2010	1 Sa			1/15/2011
G0L080454 - 12		MA12X1AA	12/13/2010	1 Sa			1/15/2011

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	500uL/10Air0135/ 100 surr/100-200 uS/mL	6/6/11	SV	JZ	12/08/10
Spike Mix LCS/LCSD/~~MS/MS~~	1mL/10Air0136/ LCS spike/10 uS/mL	6/6/11	SV	JZ	12/08/10
Pre-Spike Standard MB only ~~All Samples~~	250uL/10Air0128/ 1,2,Diphenyl/200 uS/mL	4/19/11	SV	JZ	12/08/10
Internal Standard All Samples	20uL 10MS SVOU38	11-19-11	LT	CFR	12-10-10

Soxhlet Extraction Analyst/Date: SV 12/8/10
Concentration Analyst/Date: EL/SV 12/9/10
KD Analyst/Date: EL 12/9/10
Liq Liq Extraction Analyst/Date: NA
KD Temp 84
Review Analyst/Date:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/09/10
Time: 23:32:10

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

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

Extractionist: 090182 Steve Valmores

Concentrationist: 403162 erica X. larson
090182 Steve Valmores

Reviewer/Date: VALMORES / 12/09/10

QC BATCH: 0342383

PREP DATE: 12/08/10 16:00
COMP DATE: 12/09/10 17:00

Semivolatile Organics by GCMS in Air (TO-13A)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
12/13/10	12/15/10	G0L080454-009 **MA12A-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/13/10	12/15/10	G0L080454-012 **MA12X-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/13/10	0/00/00	G0L080000-383 **MA3AJ-1-AAB**		11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/13/10	0/00/00	G0L080000-383 **MA3AJ-1-ACC**		11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10AIR0136/LCS SPIK 500UL/10AIR0135/ABN SURR
COMMENTS:															
12/13/10	0/00/00	G0L080000-383 **MA3AJ-1-ADL**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10AIR0136/LCS SPIK 500UL/10AIR0135/ABN SURR
COMMENTS:															

SAMPLE LOC: AIRTOX #291

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

NUMBER OF WORK ORDERS IN BATCH: 5

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0342383 **Test:** To-13

Prep Date: 12/8/10 **Holding Times:** 12/13/10 **NCM:** Y (N)

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

Spike witness: JZ Date: 12/08/10

2nd Level Reviewer: MM Date: 12/13/10

Comments:

TestAmerica West Sacramento

GC/MS Data Review Checklist

Batch: 0342383 **Method ID:** Semivolatile Organics by GCMS in Air (TO-13A)

NCM: Y (N) LA ID G0J080454

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

Analyst: _____ Date: 12/13/10

2nd Level Reviewer: _____ Date: 12/13/10

Comments: _____

QA-508 12/2/2006 MAF

AIR, TO-9, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:26 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

12/15/10 MC

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.87	1.00000	371922.55	4000.0000	4000.0000	100.0	5.58230	0.77	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	438139.28	3591.5093	3591.5093	89.8	3.40707	0.79	NO	
4	2,3,7,8-TCDF	303.9016	0.500	18.82	19.26	0.99766	57.01	0.5217	~~0.2209~~		1.15855	0.23	YES	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		0.5217	~~0.2209~~		1.15855			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	319504.25	3778.6504	3778.6504	94.5	6.13855	0.75	NO	
8	2,3,7,8-TCDD	319.8965	0.500	20.11	20.11	1.03464	60.88	0.7367	~~0.0407~~		1.52835	0.61	YES	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		1.4428	~~1.0184~~		1.52835			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.11	20.09	0.65529	84792.70	1619.9653	0.0000	101.2	2.39634			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.93	1.02378	316062.06	3320.2614	3320.2614	83.0	4.62720	1.56	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500		25.20	1.09163					2.15924		NO	
15	2,3,4,7,8-PeCDF	339.8597	0.500	27.13	26.73	1.06412	34.04	0.4049	~~0.1393~~		2.21507	0.26	YES	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		0.4049	~~0.1393~~		~~2.18680~~			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		0.6776	~~0.6776~~		2.37588			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.62	27.30	0.73445	229361.82	3358.6611	3358.6611	84.0	4.30256	1.59	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500		27.62	0.96030					3.42435		NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		1.4075	~~1.2669~~		3.42435			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	223494.42	4000.0000	4000.0000	100.0	5.04228	1.29	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	224945.28	3836.4049	3836.4049	95.9	6.36440	0.54	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500		32.26	1.31260					1.29484		NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500		32.38	1.43801					1.18191		NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500		32.92	1.35233					1.25679		NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500		33.56	1.19752					1.41927		NO	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511					~~0.73868~~ 1.41927			

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:26 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio FL	Mod Date
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	206253.92	4081.0864	4081.0864	102.0	5.57452	1.20	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500		33.04	0.98150					1.91529		NO	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500		33.11	1.09425					1.71795		NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500		33.38	1.05784					1.77708		NO	
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		2.1283	~~1.9147~~		~~1.79972~~			
37											1.91529 ✓			
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	194558.63	3650.3845	3650.3845	91.3	15.62576	0.43	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500		34.90	1.46280					1.14392		NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500		36.07	1.23081					1.35954		NO	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680					0.72427			
42											1.85954 ✓			
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.73	35.75	0.84836	166340.66	3509.2217	3509.2217	87.7	8.57365	1.04	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500		35.73	1.05453					1.65669		NO	
45	Total HpCDDs	423.7766	0.500		0.08	1.05453					~~0.02264~~			
46											1.65669 ✓			
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	251736.58	6678.2860	6678.2860	83.5	9.85780	0.84	NO	
48	OCDF	441.7428	0.500		38.43	1.48610					2.22299		NO	
49	OCDD	457.7377	0.500	38.32	38.31	1.14618	152.38	4.2248	3.2379 DL		~~2.30362~~	0.56	YES	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:26 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379, Task:

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
	4	2,3,7,8-TCDF	303.9016	18.82	57.006	0.5217	0.2209	0.99766	1.1585	0.226	0.770	YES	3.538

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
	9	Total TCDDs	319.8965	20.65	58.354	0.7061	0.3777	1.03464	1.5283	2.309	0.770	YES	2.368
	8	2,3,7,8-TCDD	319.8965	20.11	60.881	0.7367	0.6407	1.03464	1.5283	0.609	0.770	YES	3.381

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
	15	2,3,4,7,8-PeCDF	339.8597	27.13	34.041	0.4049	0.1393	1.06412	2.2151	0.264	1.550	YES	2.581

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	17	Total F1 PeCD...	339.8597	20.64	57.708	0.6776	0.6776	1.07787	2.3759	1.780	1.550	NO	1.822

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	21	Total PeCDDs	355.8546	23.81	77.501	1.4075	1.2669	0.96030	3.4243	1.833	1.550	YES	2.131

Total HxCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1													

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:26 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379, Task:

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	36	Total HxCDDs	389.8157	31.75	114.632	2.1283	1.9147	1.04453	1.7997	0.992	1.240	YES	2.580

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

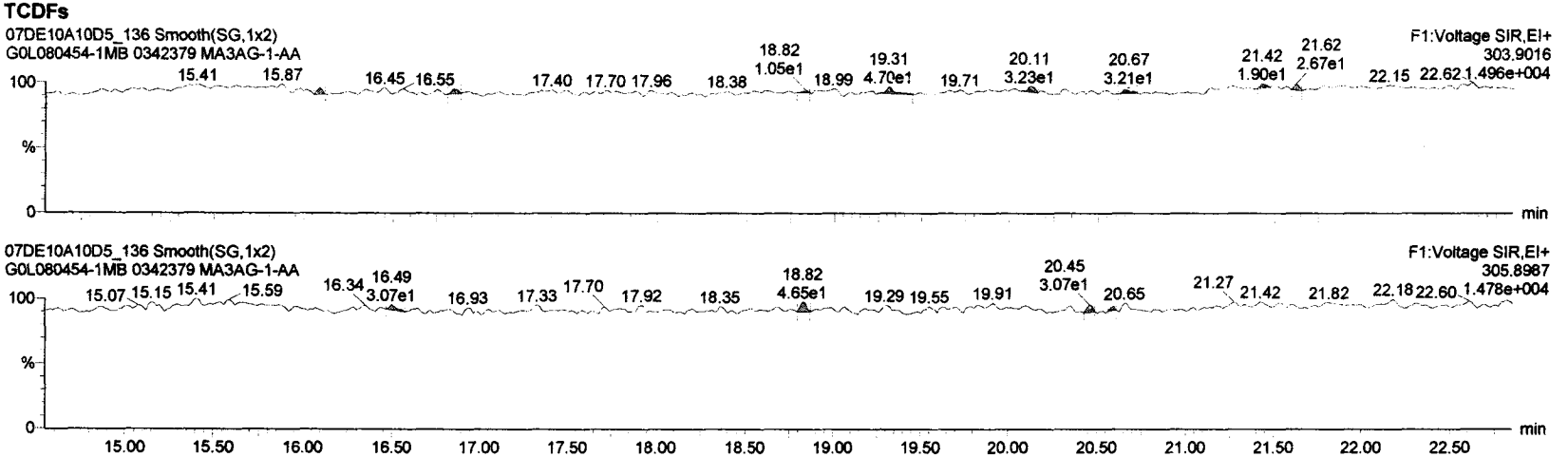
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

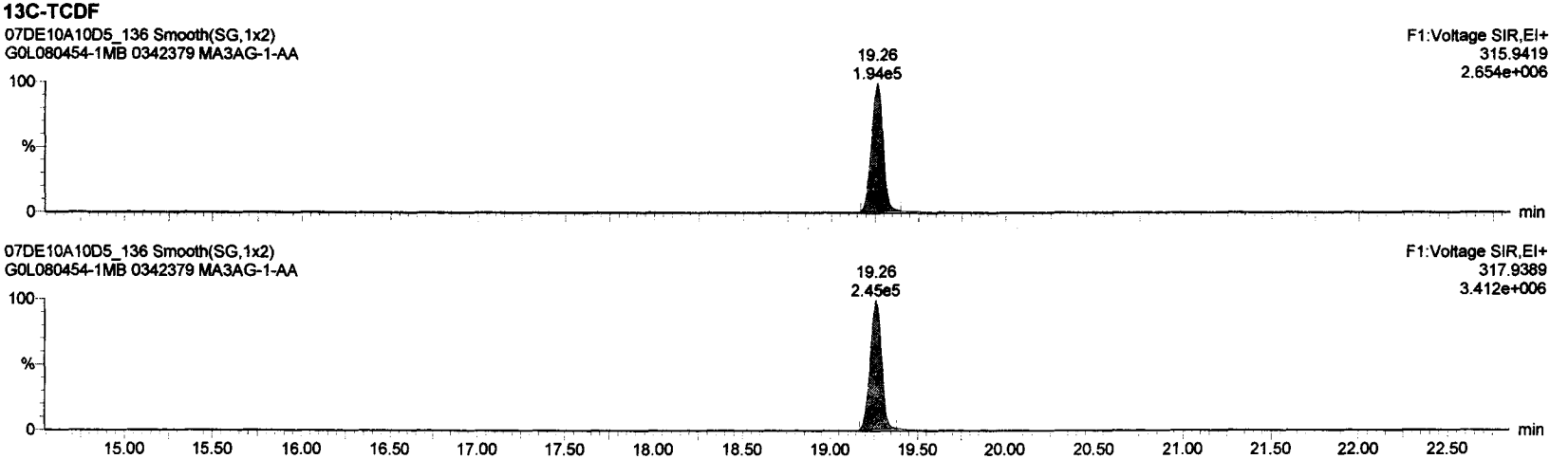
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

TCDFs



13C-TCDF



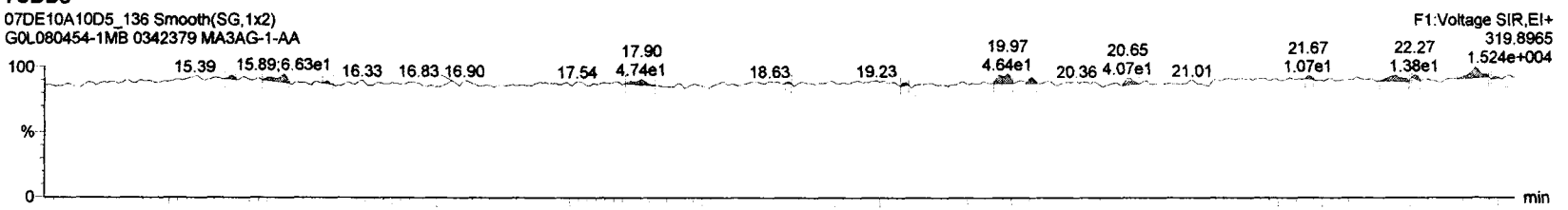
Quantify Sample Report **MassLynx 4.1**

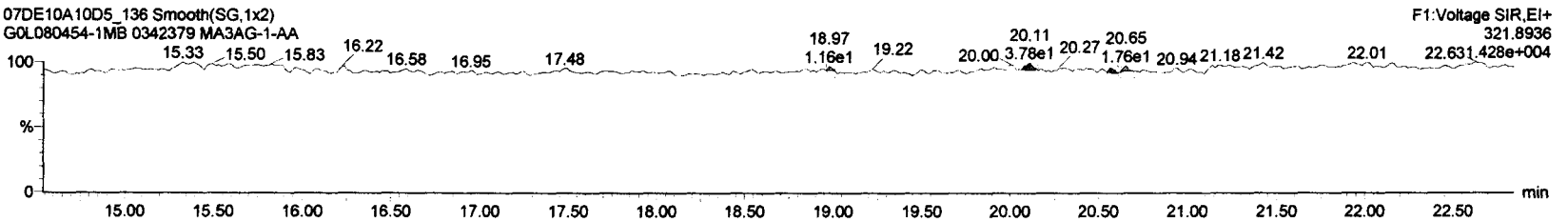
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

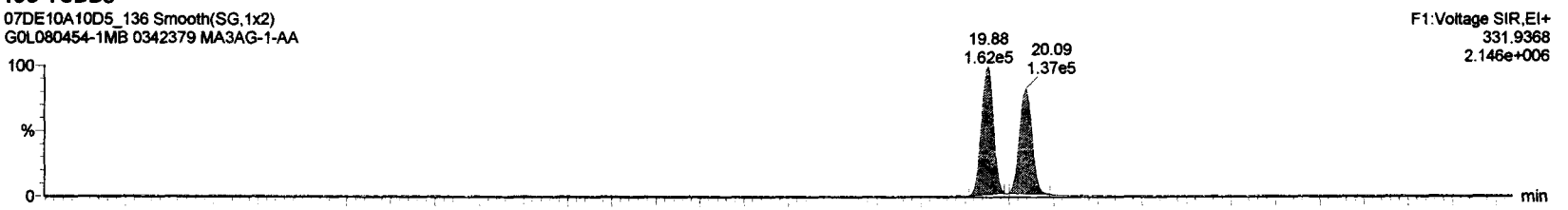
Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

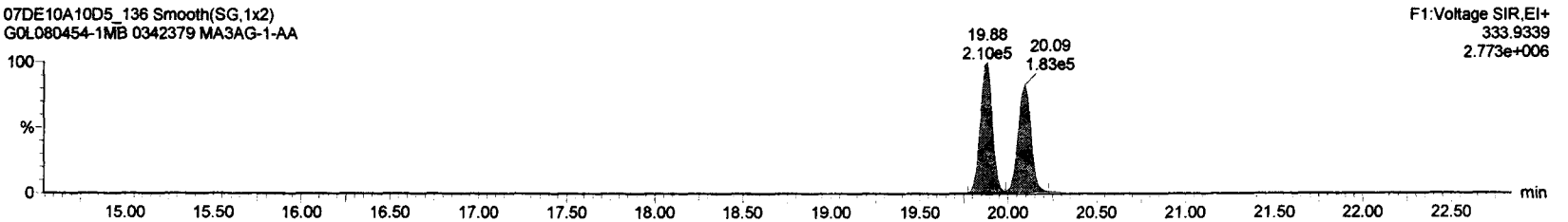
TCDDs





13C-TCDDs





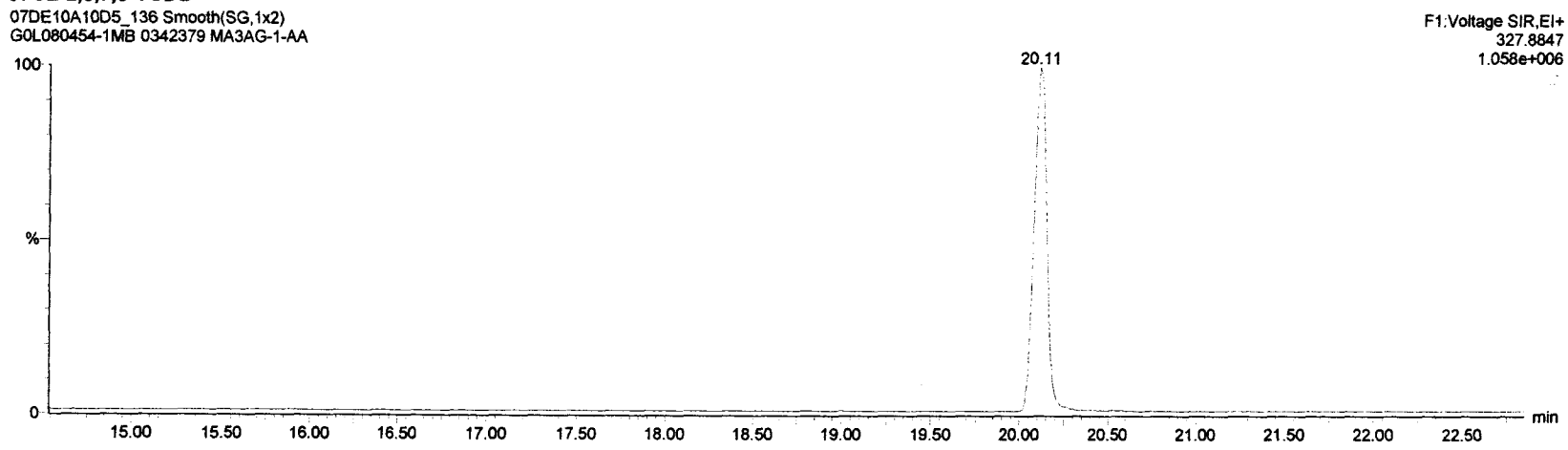
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

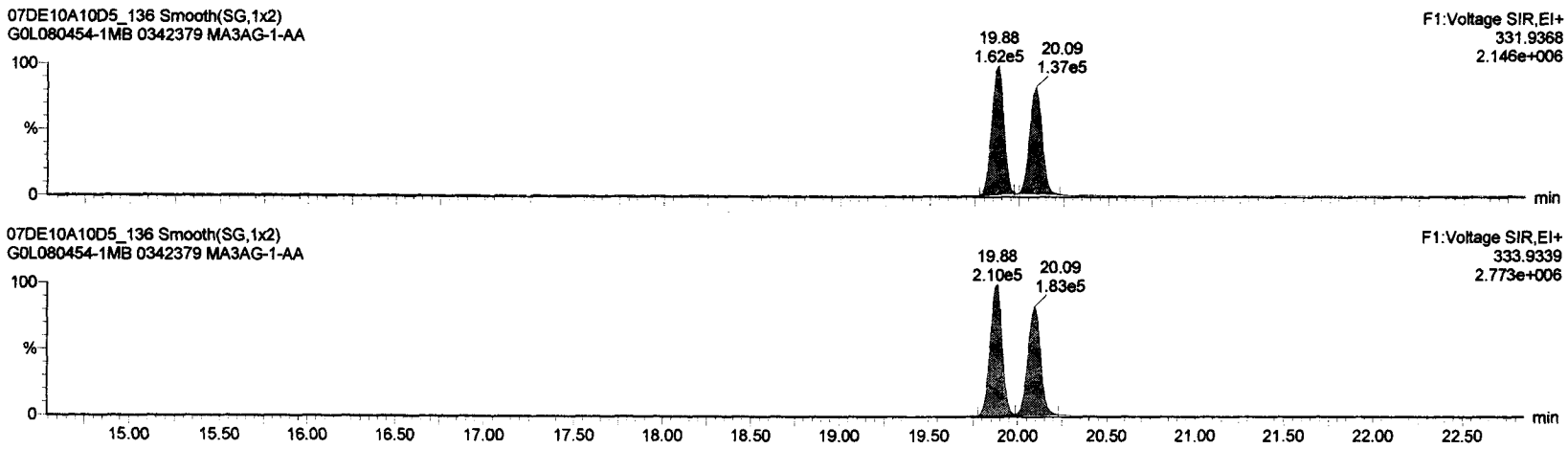
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

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



13C-TCDDs



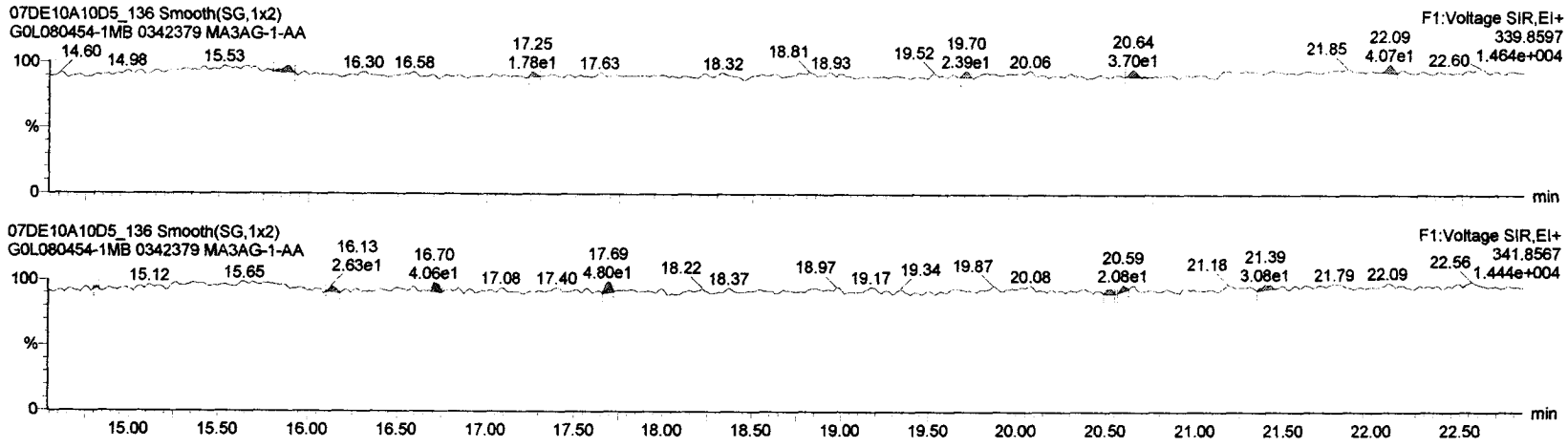
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

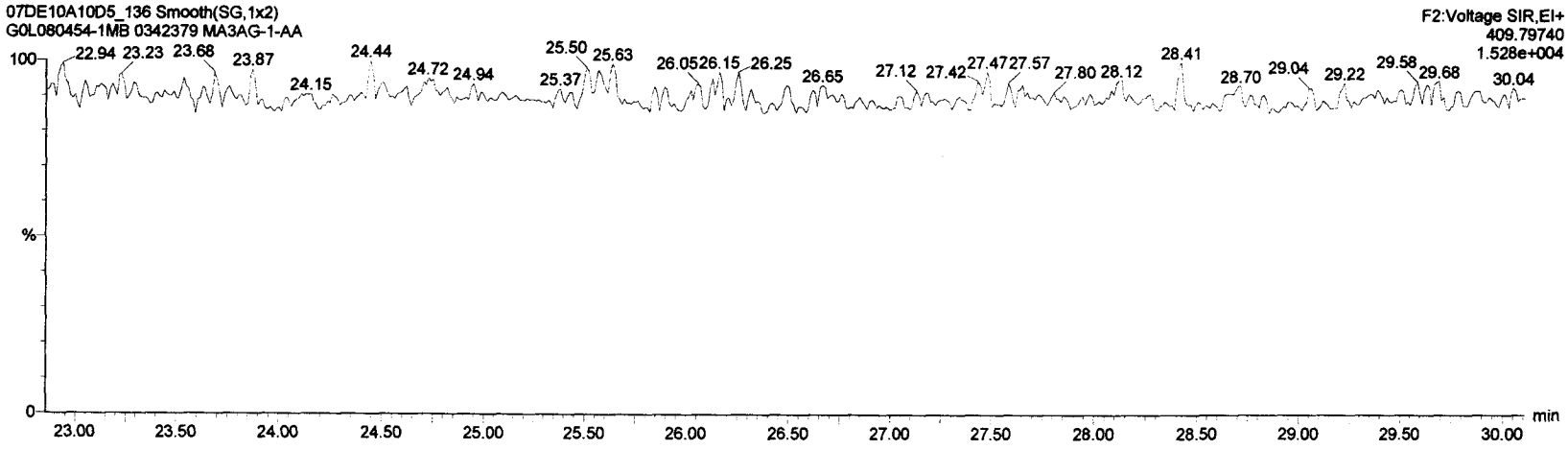
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

F1 PeCDFs



F1 PeCDF PCDPE



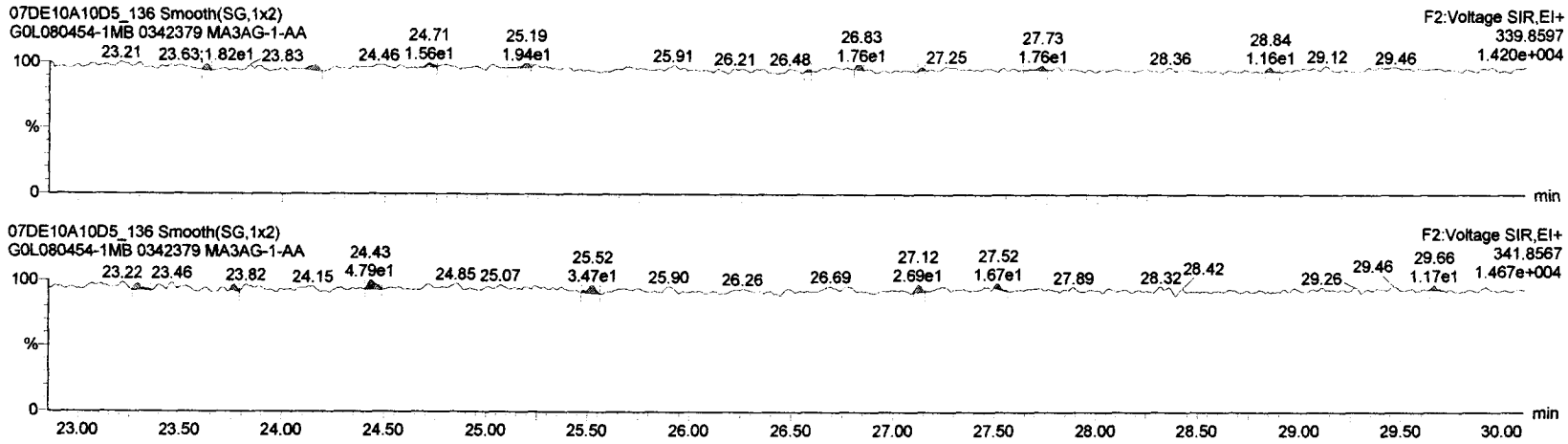
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

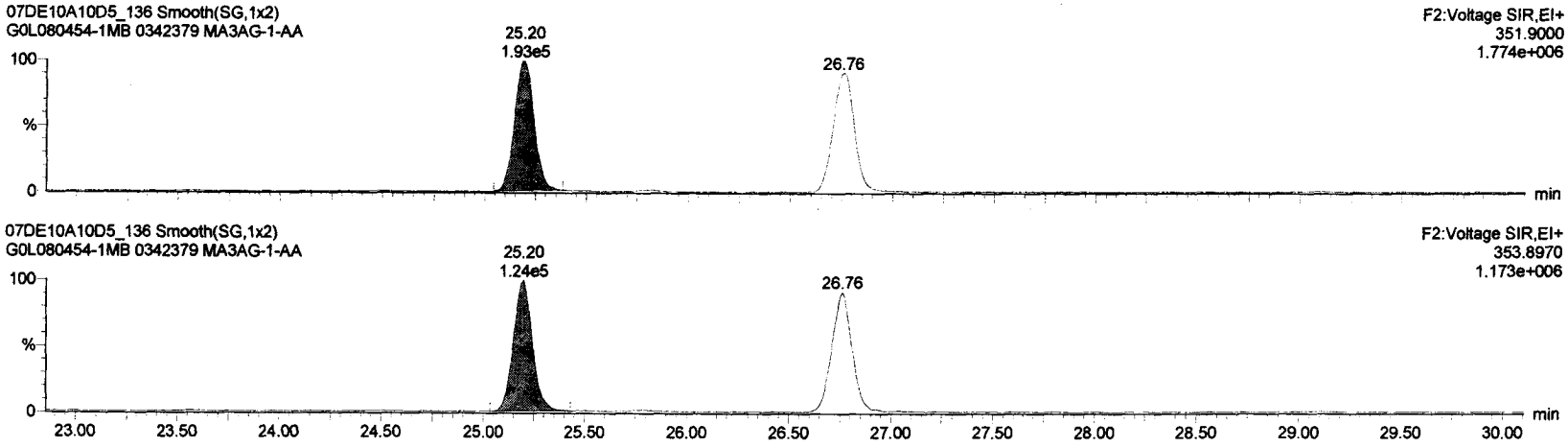
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

PeCDFs



13C-PeCDFs



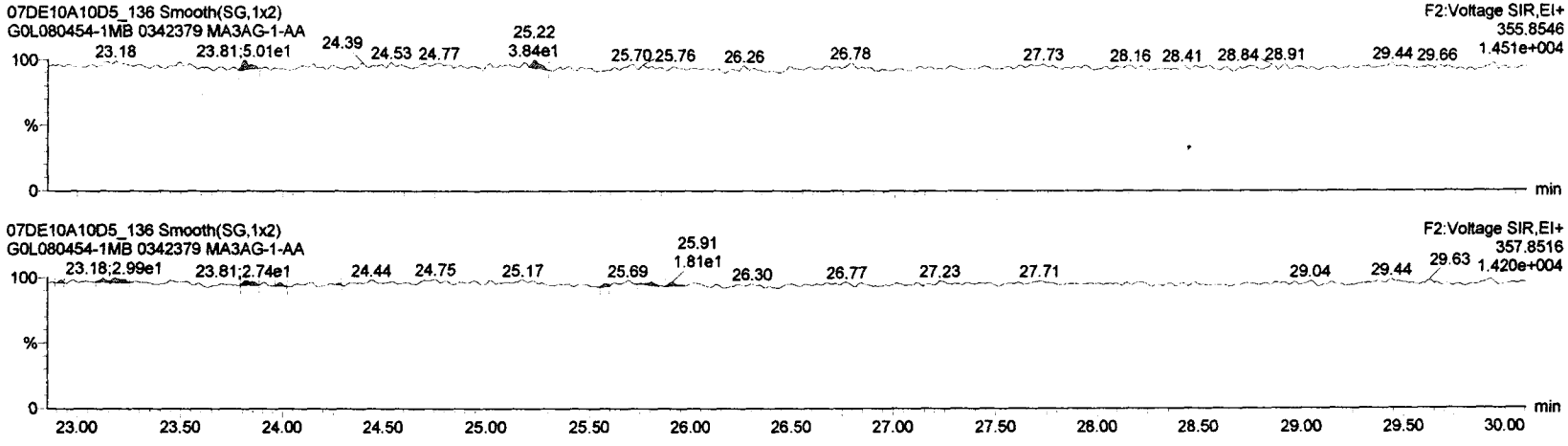
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

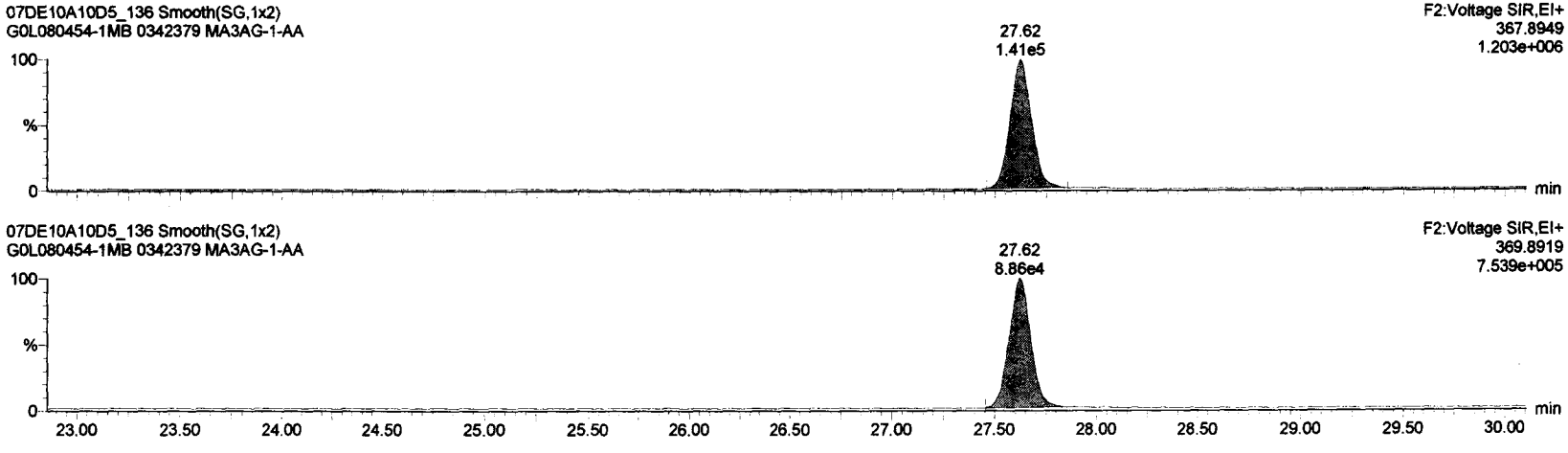
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

PeCDDs



13C-PeCDD



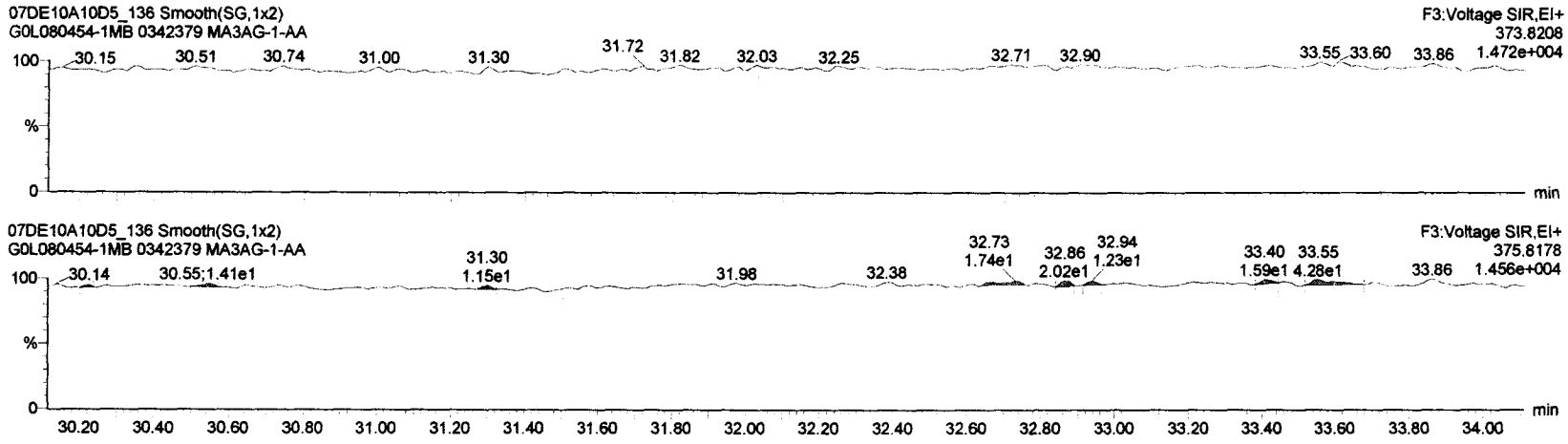
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

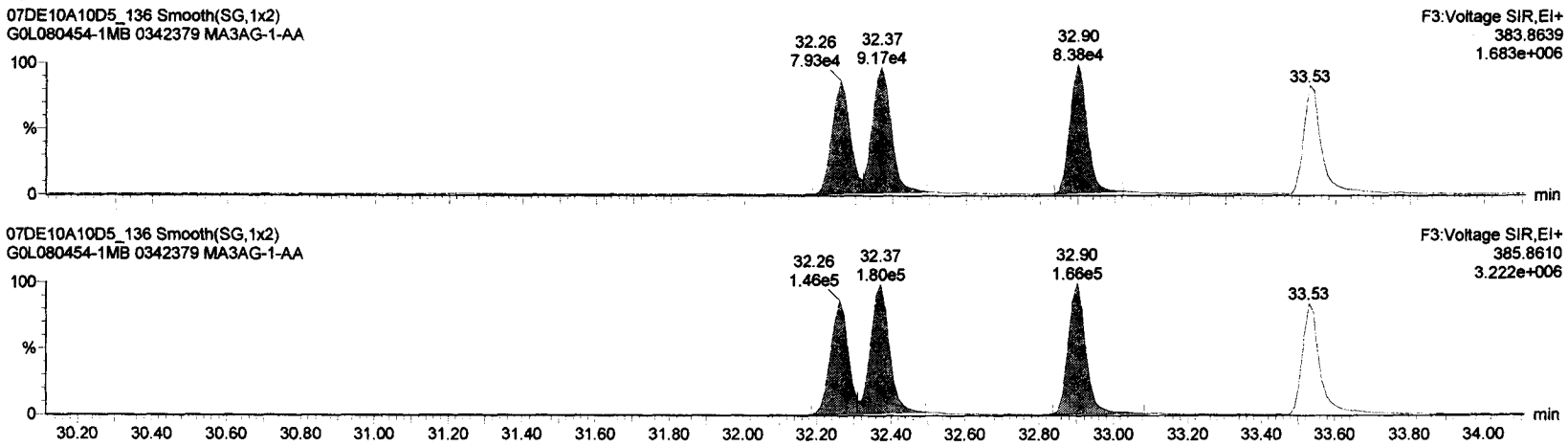
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HxCDFs



13C-HxCDFs



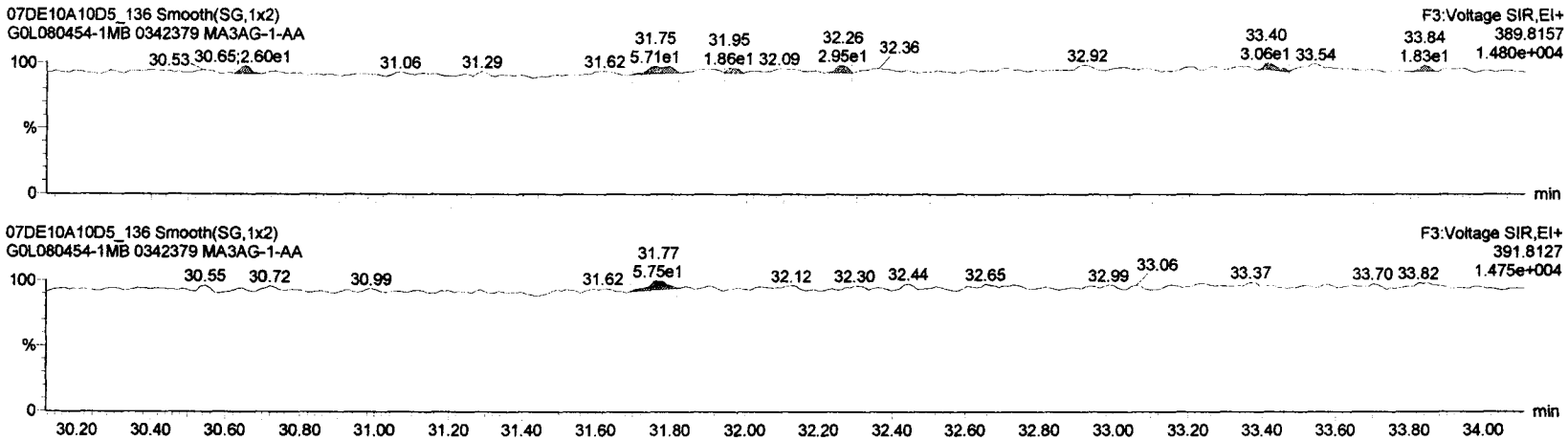
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

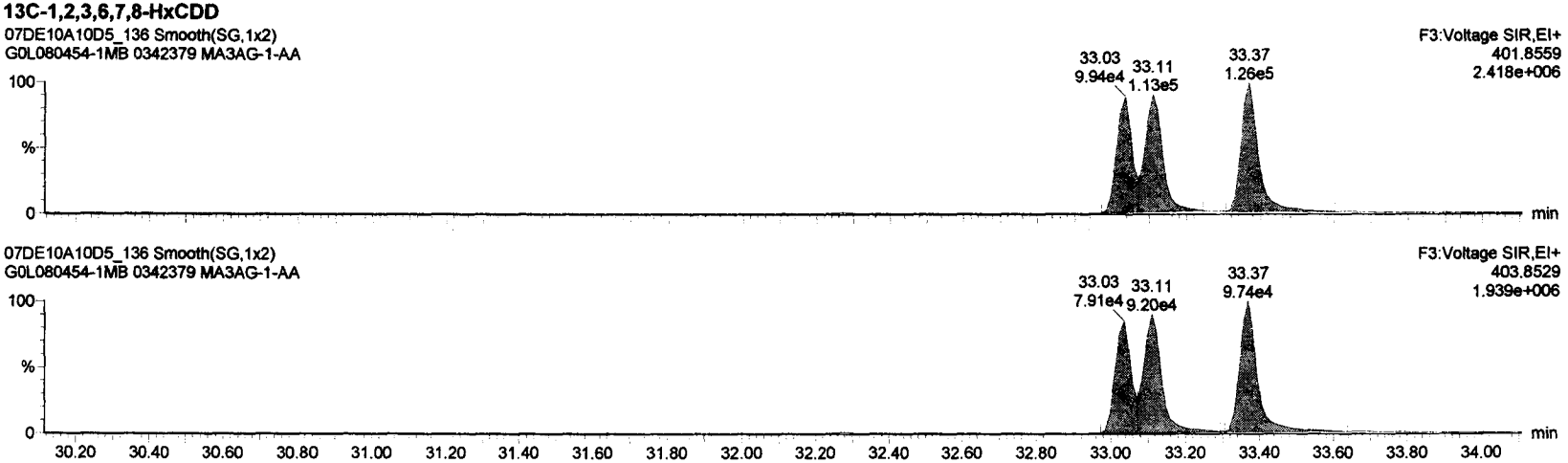
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



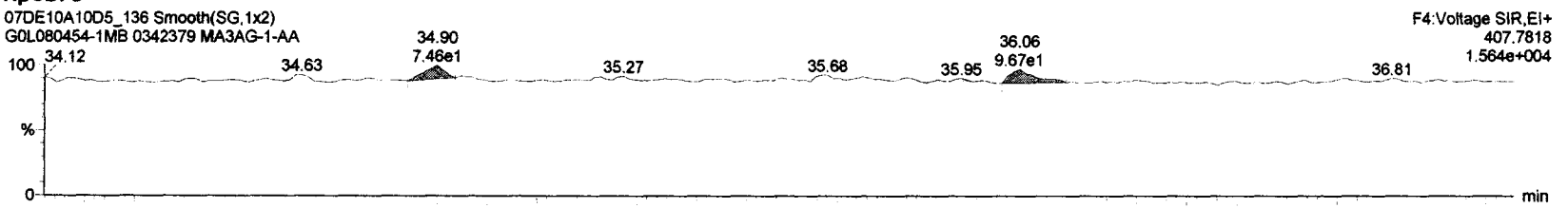
Quantify Sample Report **MassLynx 4.1**

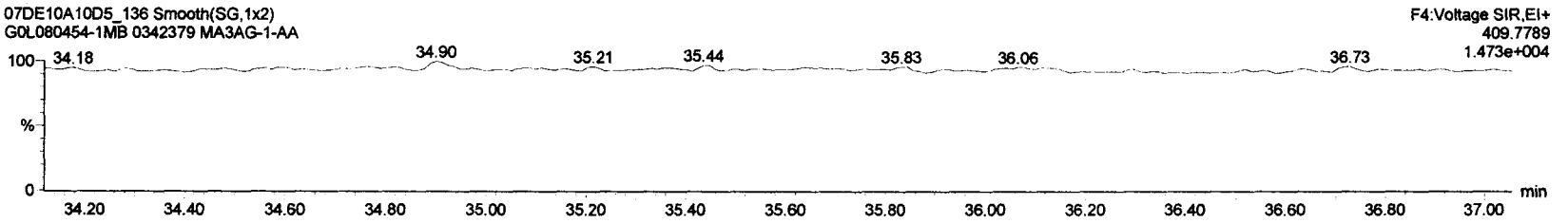
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

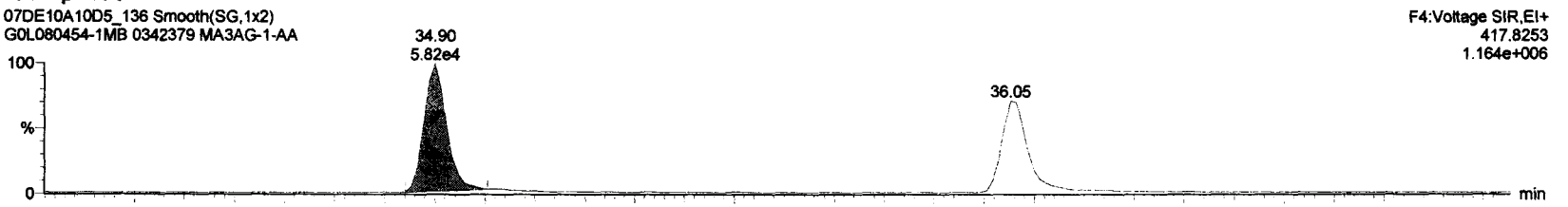
Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

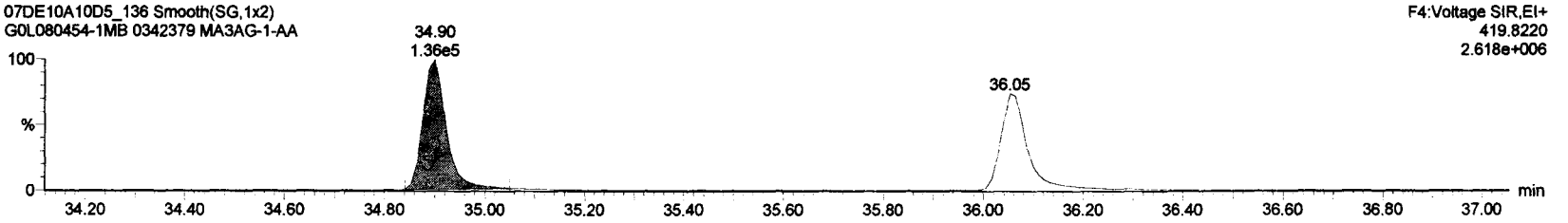
HpCDFs





13C-HpCDFs





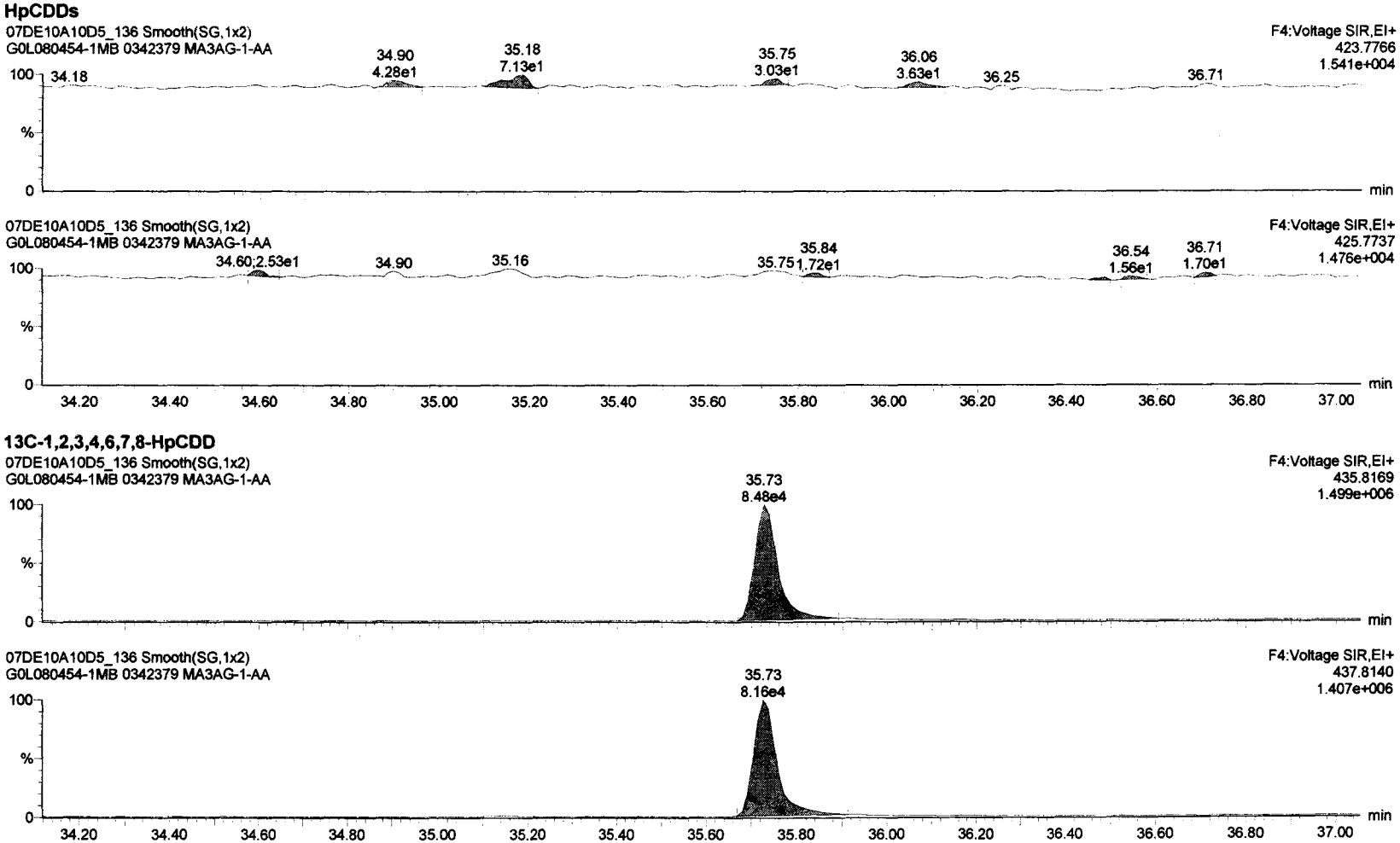
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD

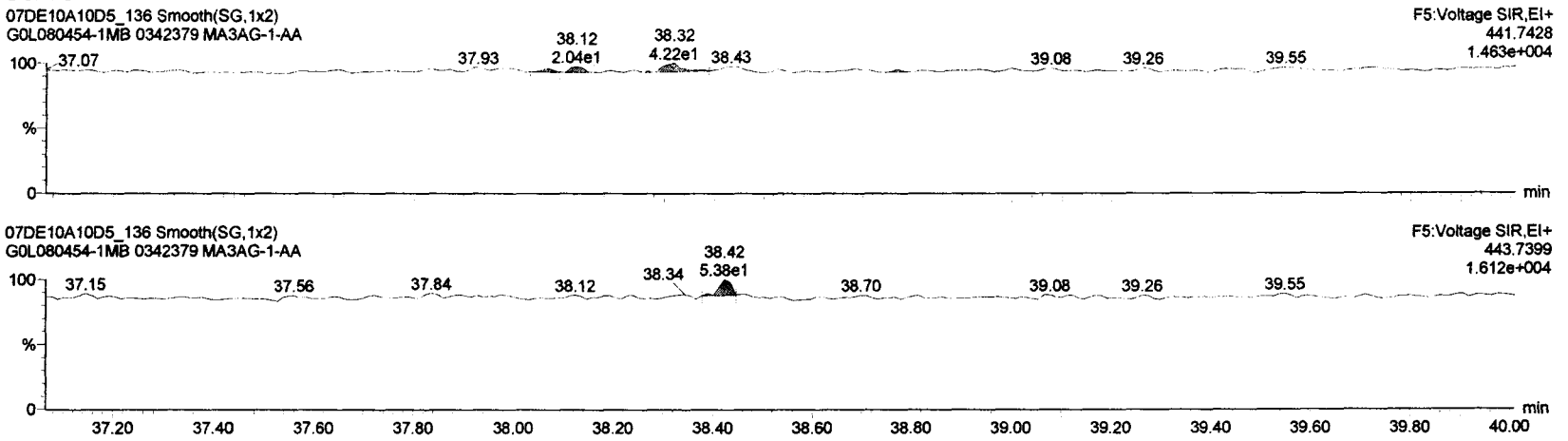
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

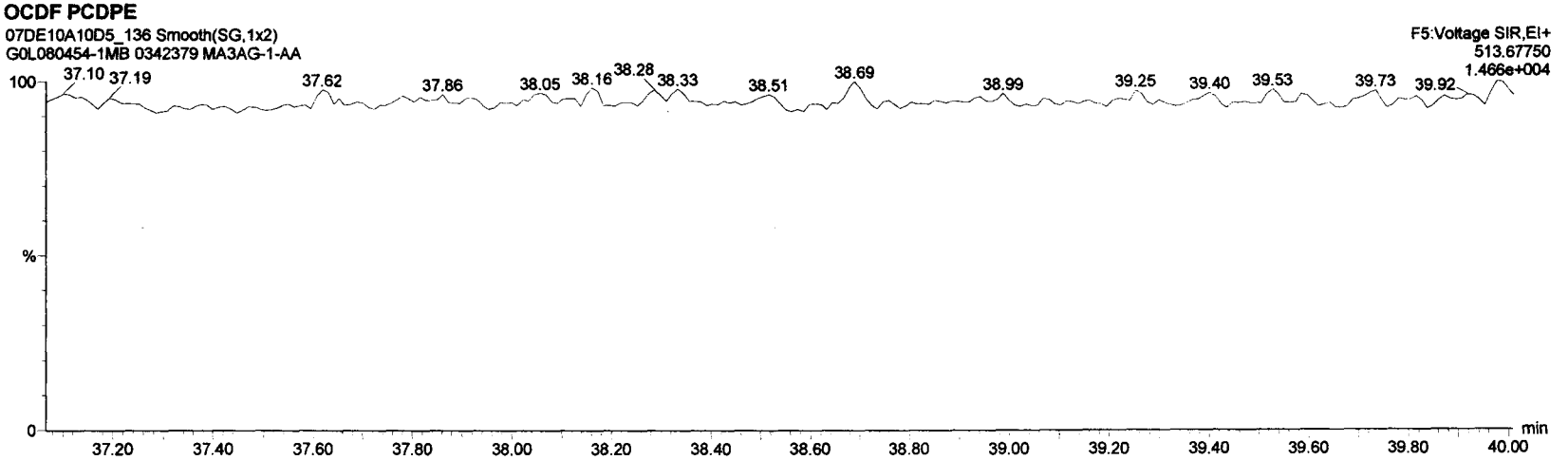
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

OCDFs



OCDF PCDPE



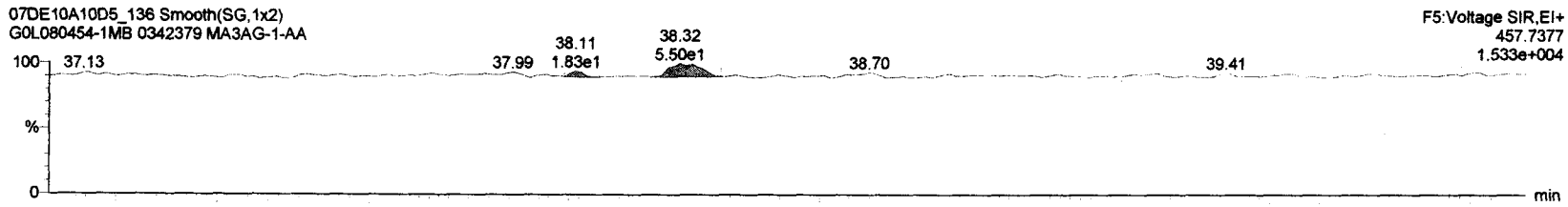
Quantify Sample Report **MassLynx 4.1**

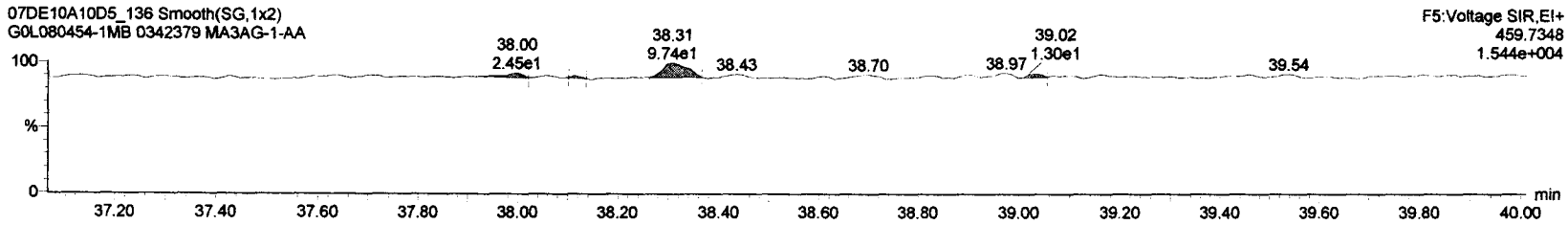
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

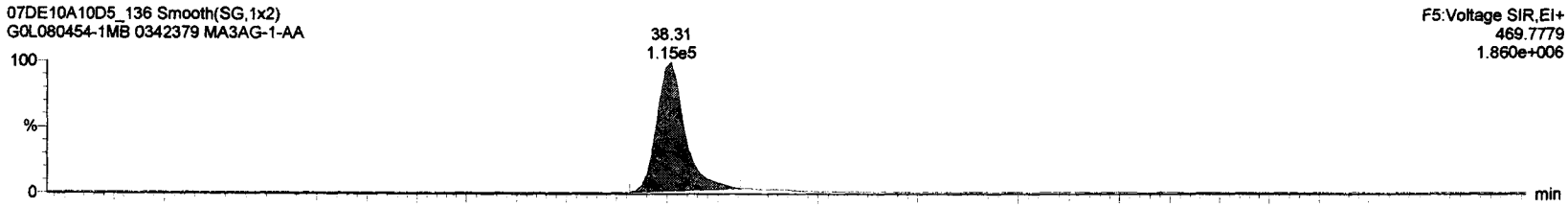
Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

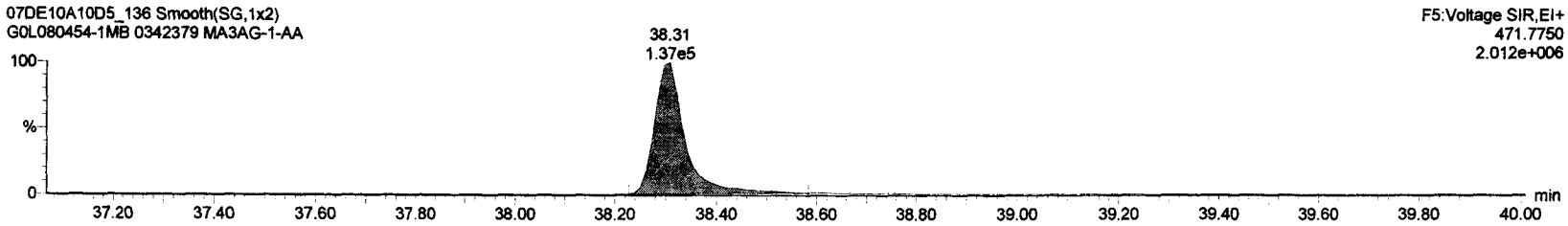
OCDD





13C-OCDD





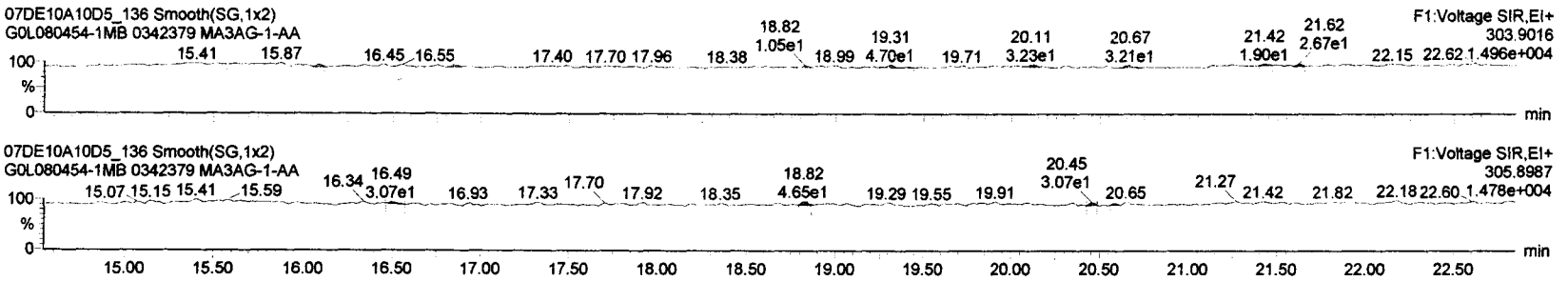
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

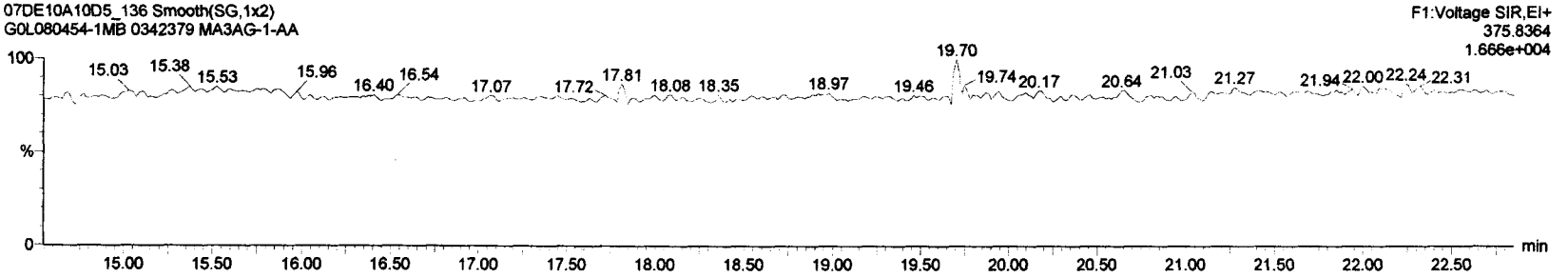
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

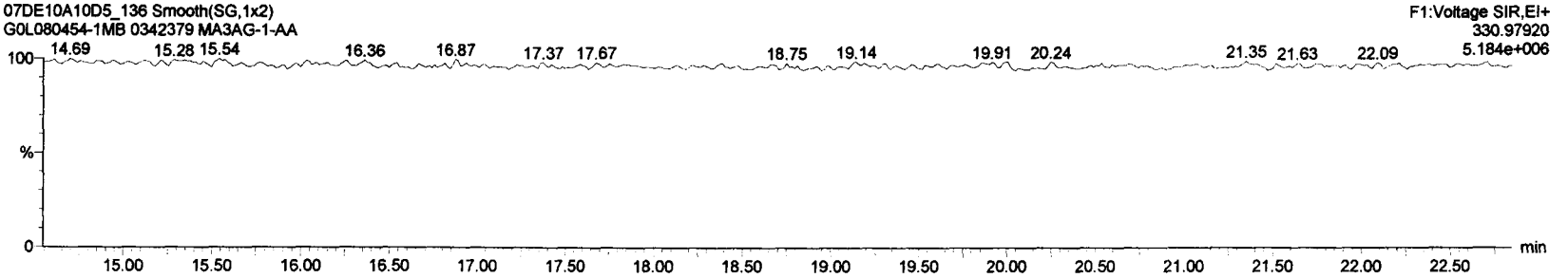
TCDFs



TCDF PCDPE



Function 1 PFK



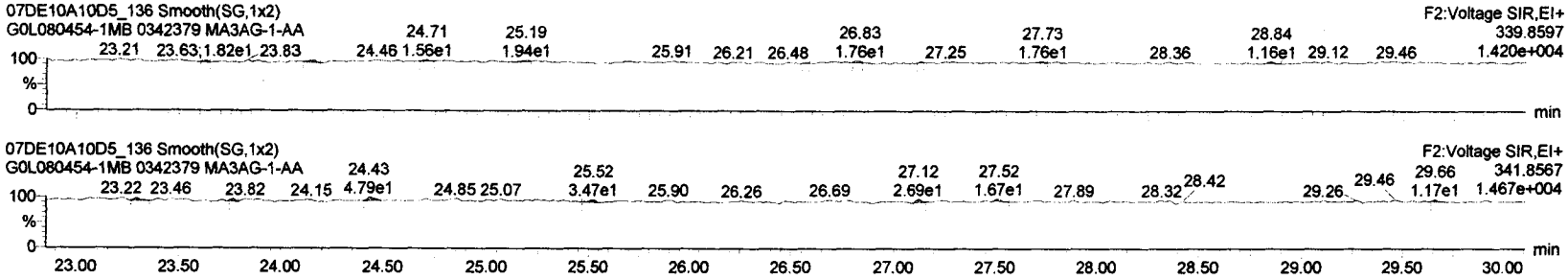
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

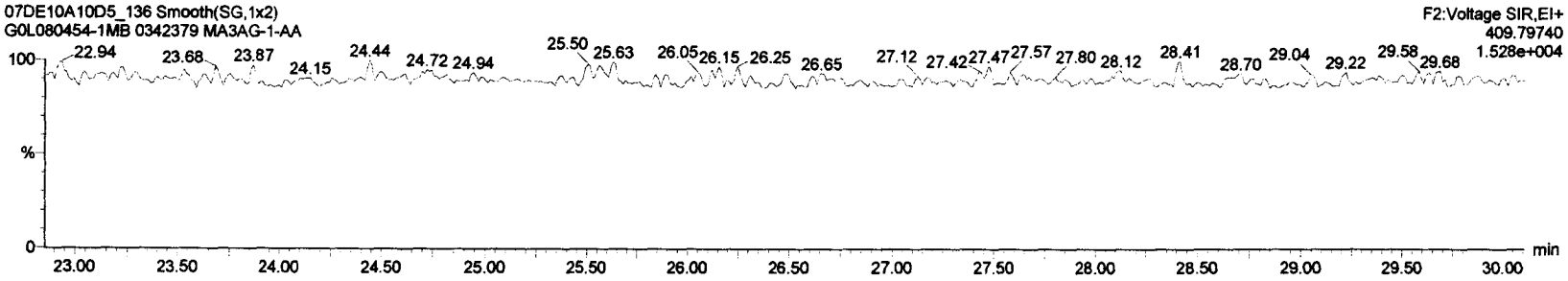
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

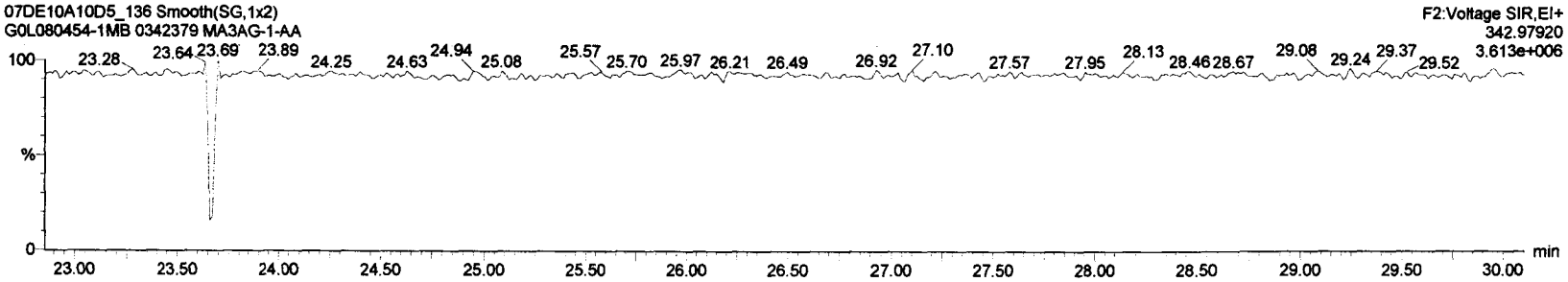
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



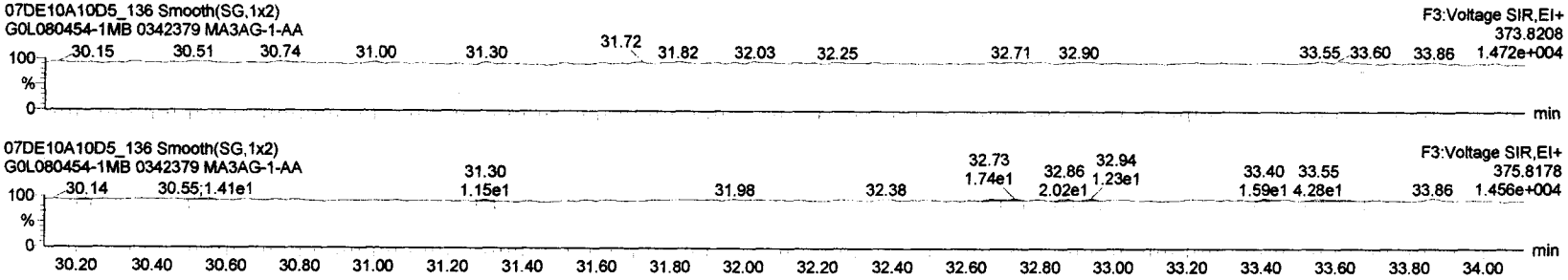
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

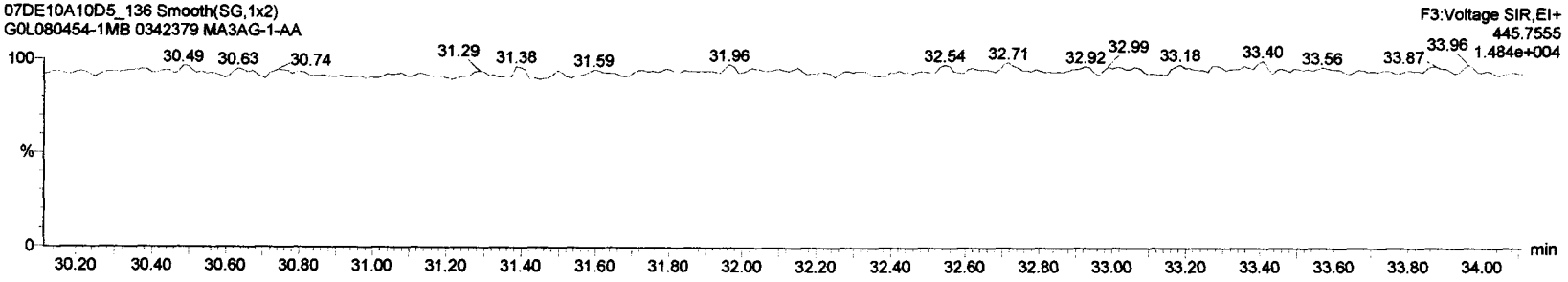
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

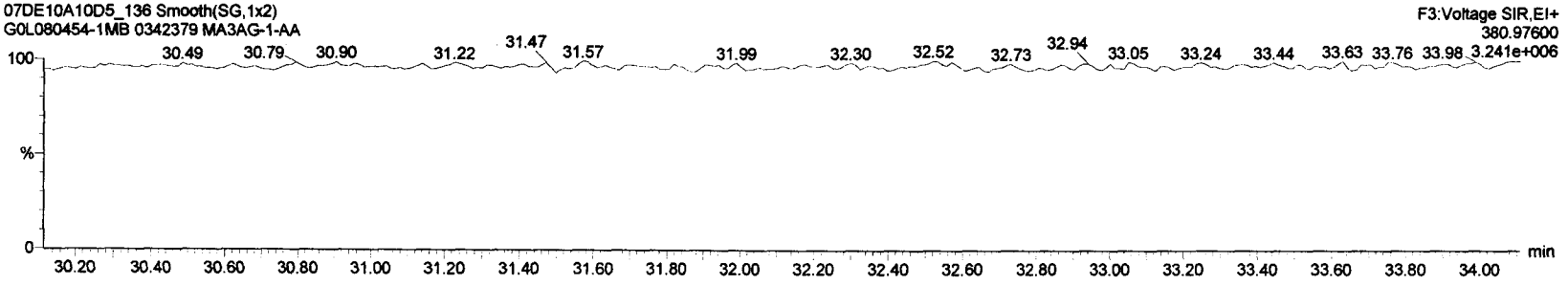
HxCDFs



HxCDF PCDPE



Function 3 PFK



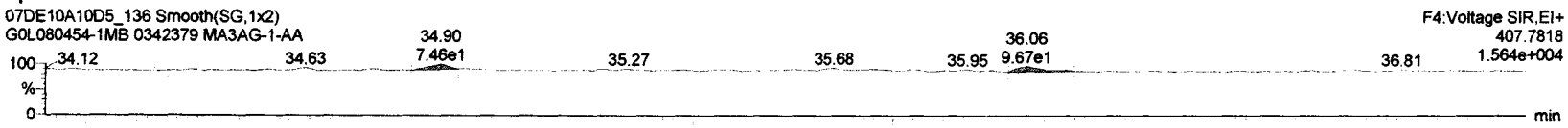
Quantify Sample Report **MassLynx 4.1**

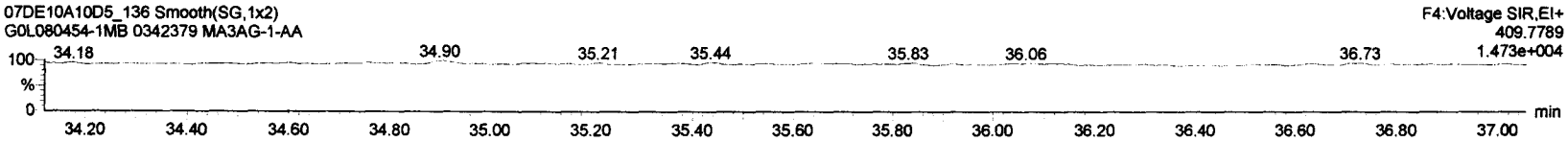
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

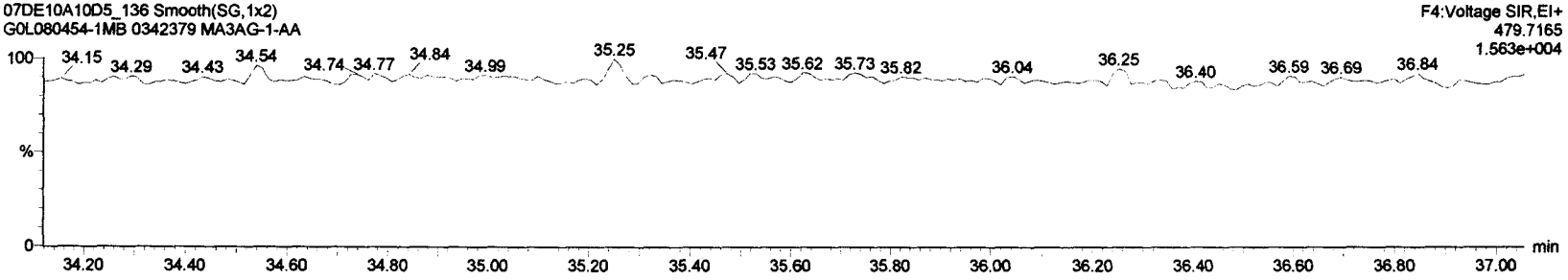
Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HpCDFs

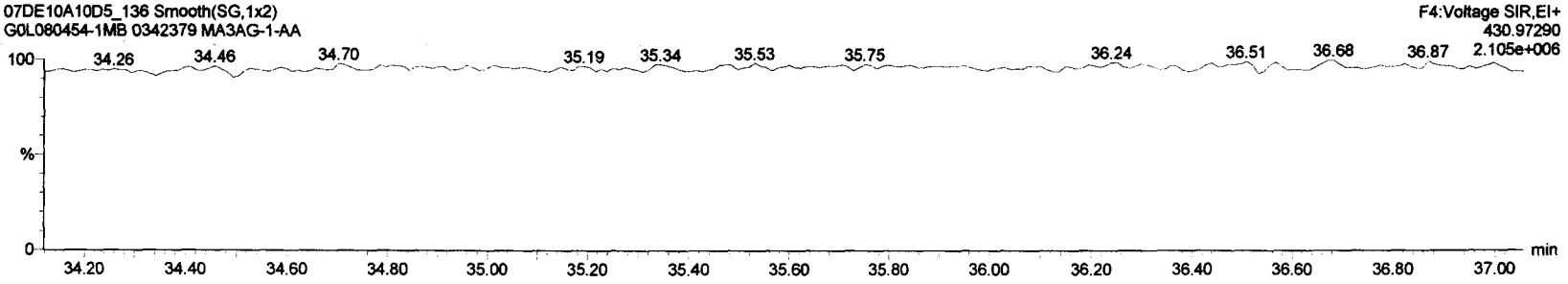




HpCDF PCDPE



Function 4 PFK



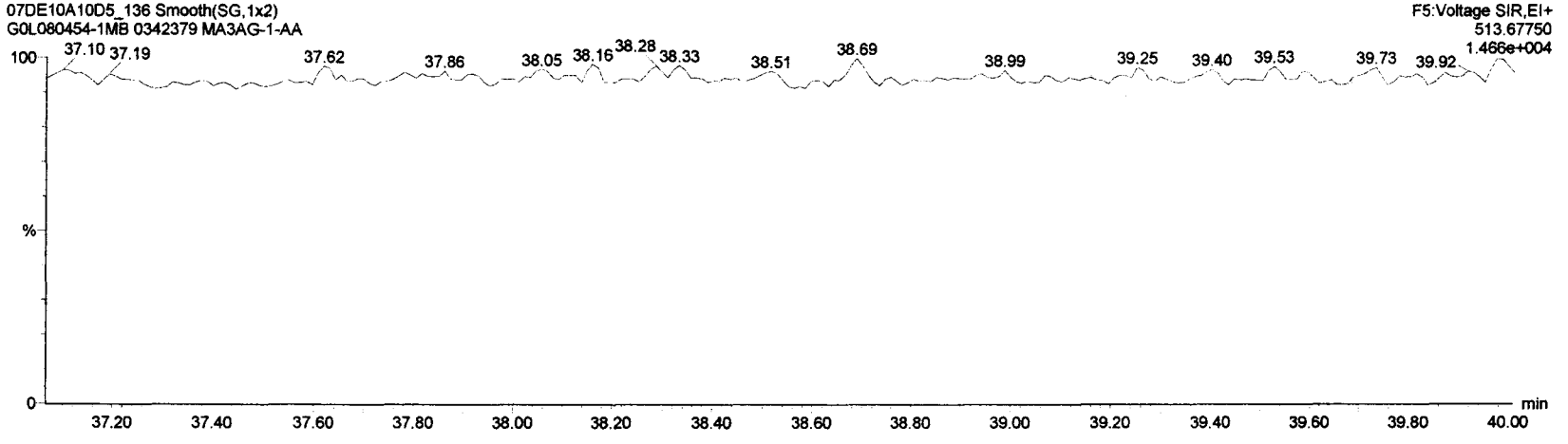
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

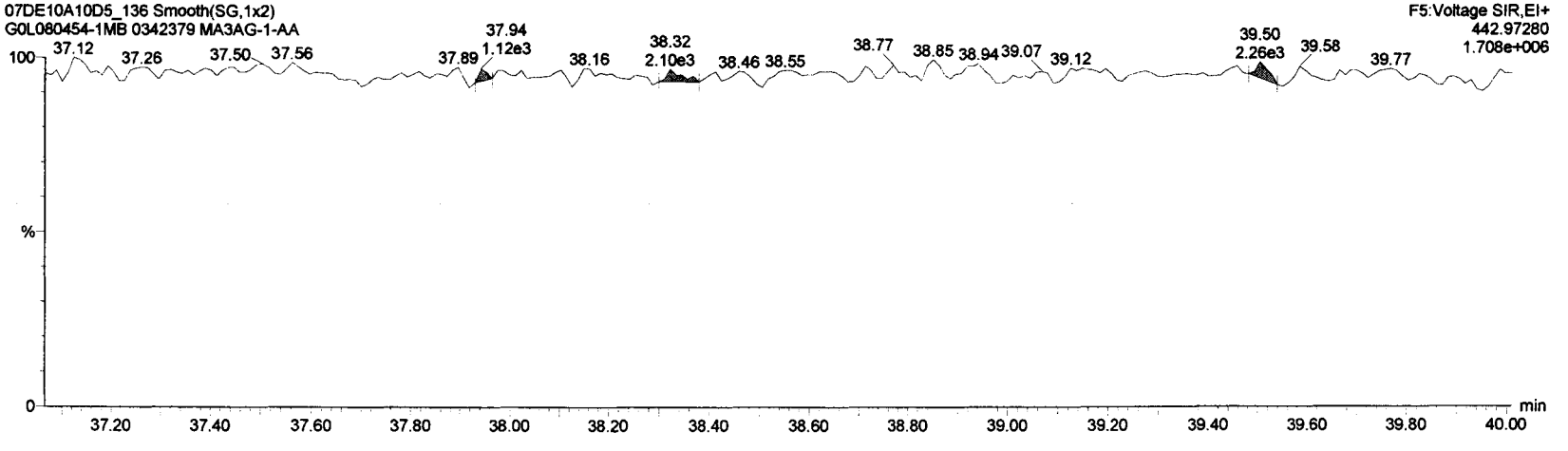
Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 13:17:49 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

OCDF PCDPE



Function 5 PFK



Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

12/15/10 MG

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio El...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.89	1.00000	390339.77	4000.0000	4000.0000	100.0	4.57102	0.80	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.28	19.26	1.31203	488716.95	3817.0858	3817.0858	95.4	2.65975	0.78	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.29	19.28	0.99766	46891.86	384.6969	384.6969		1.27905	0.78	NO	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		384.6969	384.6969		1.27905			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	350129.78	3945.4708	3945.4708	98.6	5.02650	0.79	NO	
8	2,3,7,8-TCDD	319.8965	0.500	20.12	20.11	1.03464	34803.47	384.2927	384.2927		1.31875	0.81	NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		384.2927	384.2927		1.31875			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.06	20.09	0.65529	45.38	0.7912	0.0000	NA/0.0	2.12543			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.93	1.02378	344633.11	3449.5831	3449.5831	86.2	4.60261	1.55	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	25.23	25.20	1.09163	181616.72	1931.0019	1931.0019		3.13551	1.62	NO	
15	2,3,4,7,8-PeCDF	339.8597	0.500	26.79	26.73	1.06412	176083.68	1920.5827	1920.5827		3.21659	1.60	NO	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		3851.5846	3851.5846		3.17553			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787					0.84529			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.63	27.30	0.73445	256184.58	3574.4379	3574.4379	89.4	3.96545	1.60	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500	27.66	27.63	0.96030	114906.80	1868.3034	1868.3034		3.47108	1.58	NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		1868.3034	1868.3034		3.47108			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	255418.53	4000.0000	4000.0000	100.0	3.66943	1.29	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.27	32.23	1.04941	259592.59	3873.9511	3873.9511	96.8	5.65263	0.53	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.28	32.27	1.31260	166339.17	1952.6735	1952.6735		1.29501	1.26	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.40	32.39	1.43801	182978.29	1960.6751	1960.6751		1.18207	1.24	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.93	32.93	1.35233	171283.08	1951.6363	1951.6363		1.25696	1.26	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500	33.55	33.57	1.19752	152556.07	1962.9786	1962.9786		1.41946	1.26	NO	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		7827.9635	7827.9635		1.28278			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.12	33.10	0.90452	240218.80	4159.0569	4159.0569	104.0	4.05676	1.21	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500	33.05	33.05	0.98150	102441.66	1737.9509	1737.9509		1.85371	1.28	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500	33.13	33.12	1.09425	129009.50	1963.1711	1963.1711		1.66271	1.26	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500	33.38	33.39	1.05784	117059.98	1842.6421	1842.6421		1.71994	1.25	NO	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		5543.7642	5543.7642		1.74186			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	235812.52	3871.4108	3871.4108	96.8	8.55133	0.45	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	165201.05	1915.6720	1915.6720		3.49883	1.03	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.08	36.07	1.23081	135674.84	1869.8286	1869.8286		4.15831	1.03	NO	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		3785.5006	3785.5006		3.80017			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.74	35.75	0.84836	200953.27	3709.5543	3709.5543	92.7	5.75748	1.05	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.75	35.74	1.05453	102071.97	1926.6886	1926.6886		2.34481	1.04	NO	
45	Total HpCDDs	423.7766	0.500		0.09	1.05453		1926.6886	1926.6886		2.34481			
46														
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	313108.47	7268.2153	7268.2153	90.9	6.71218	0.87	NO	
48	OCDF	441.7428	0.500	38.44	38.43	1.48610	225271.97	3873.0653	3873.0653		3.12223	0.86	NO	
49	OCDD	457.7377	0.500	38.32	38.31	1.14618	173048.52	3857.5267	3857.5267		5.51304	0.92	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

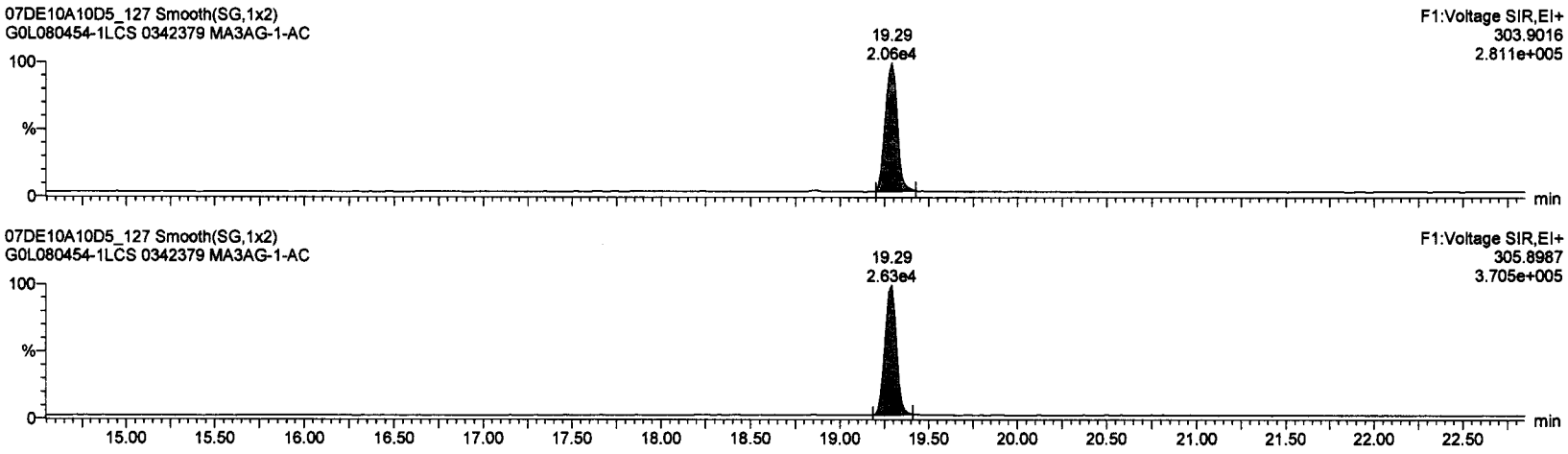
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

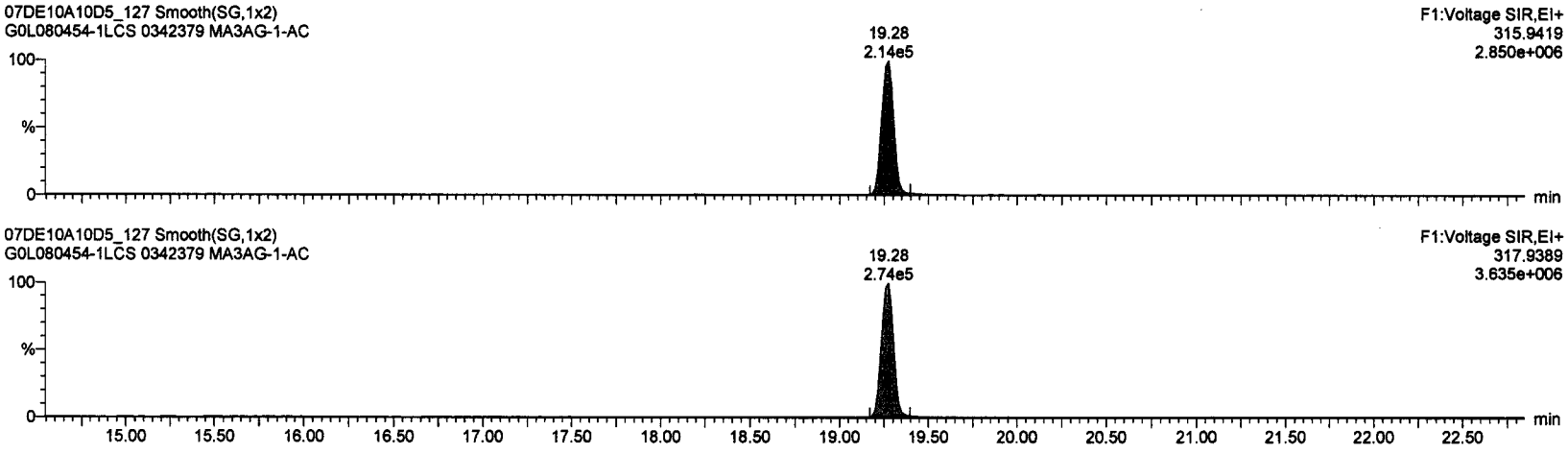
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

TCDFs



13C-TCDF



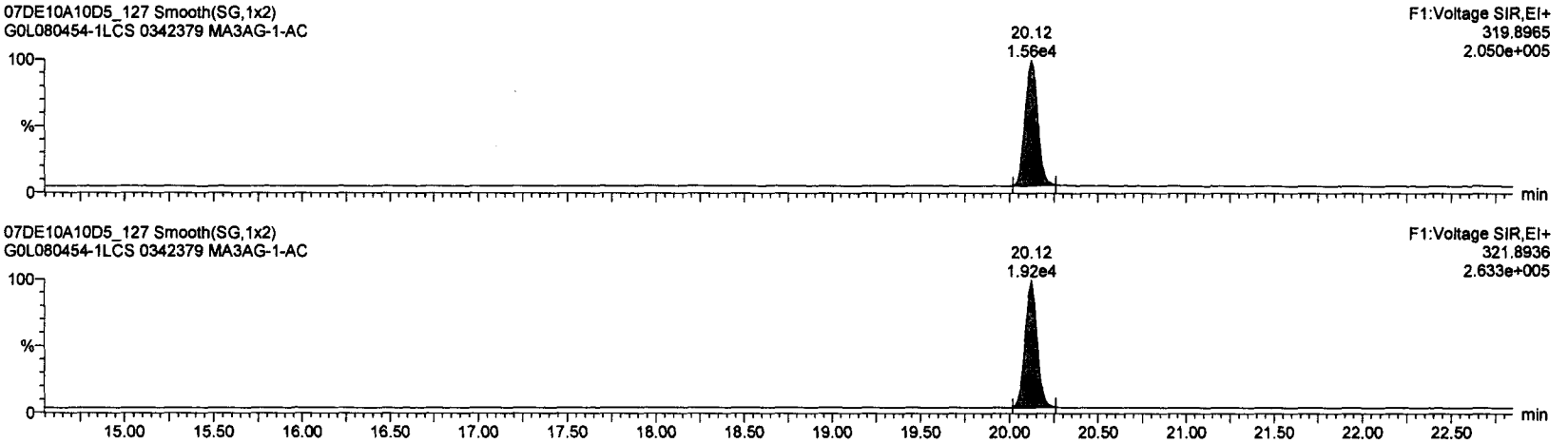
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

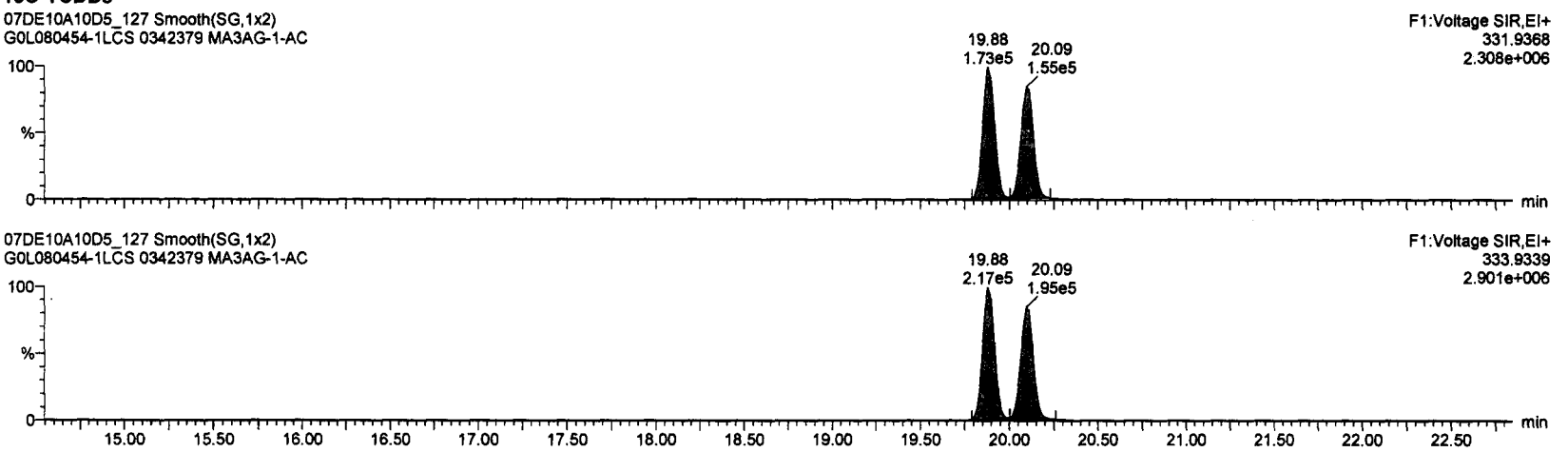
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

TCDDs



13C-TCDDs



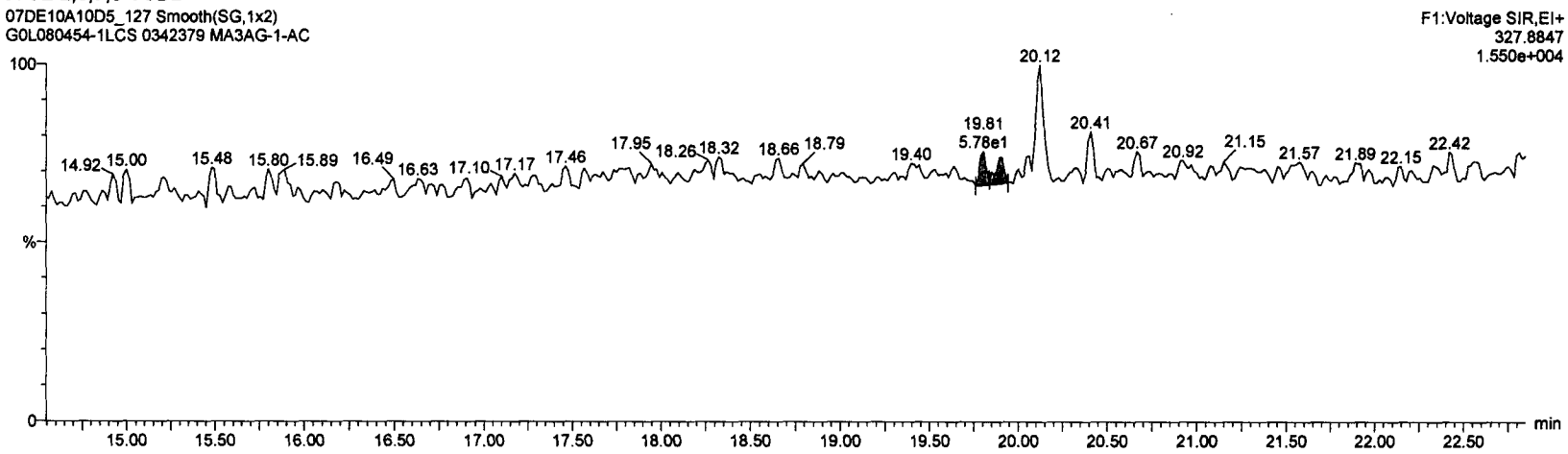
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

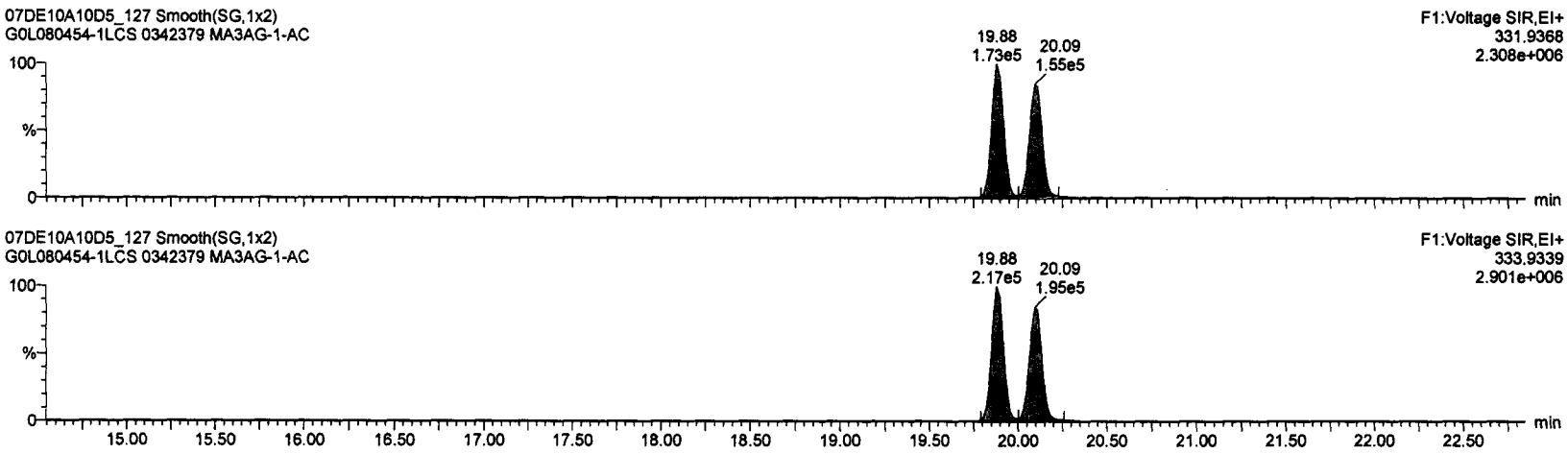
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

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



13C-TCDDs



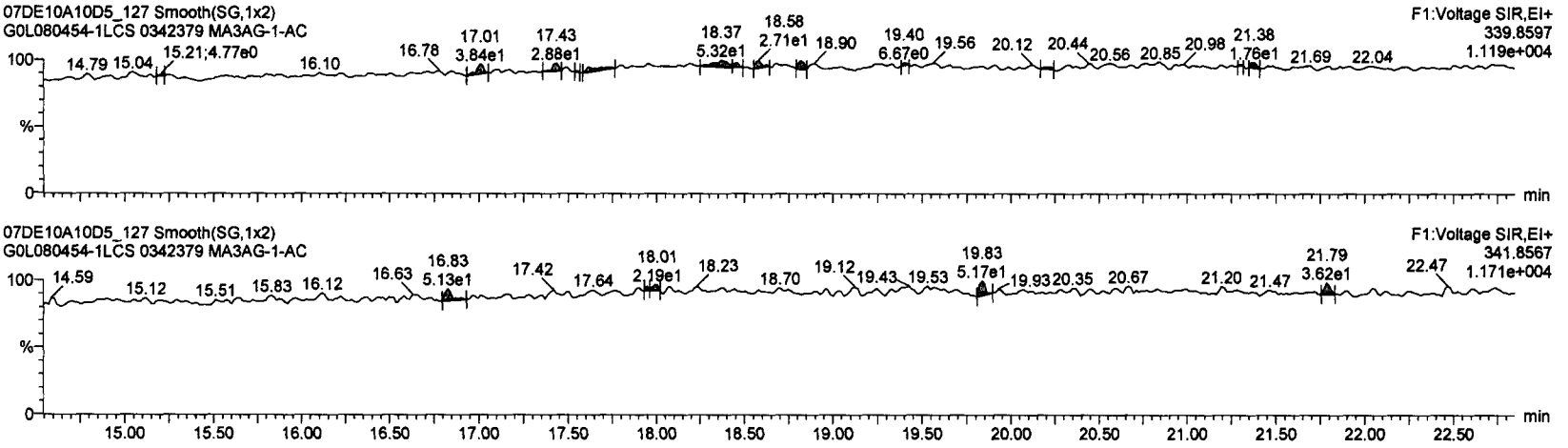
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

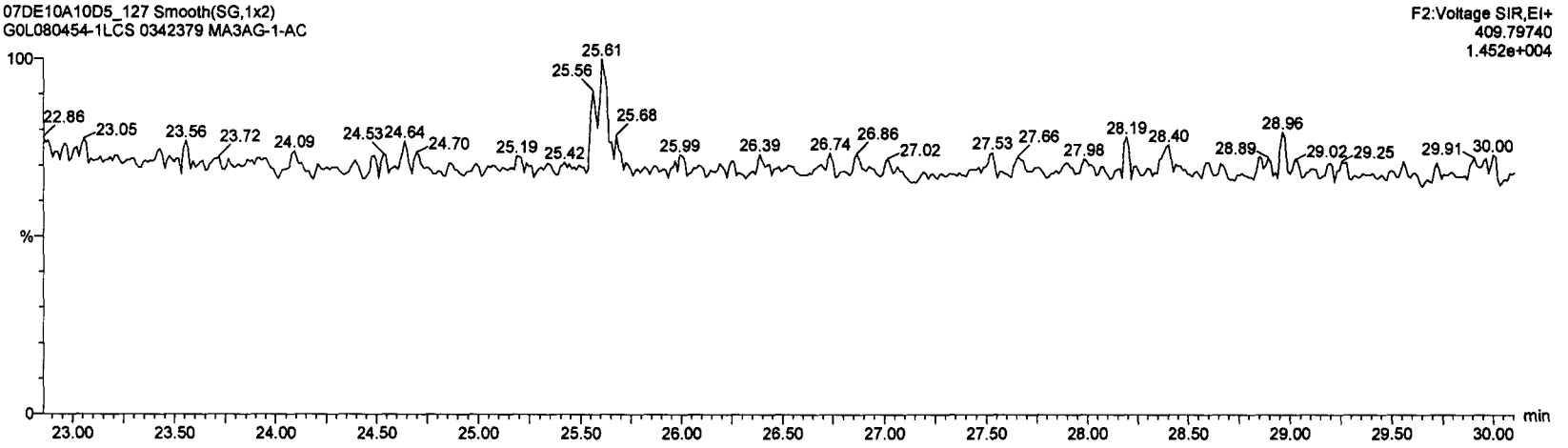
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

F1 PeCDFs



F1 PeCDF PCDPE



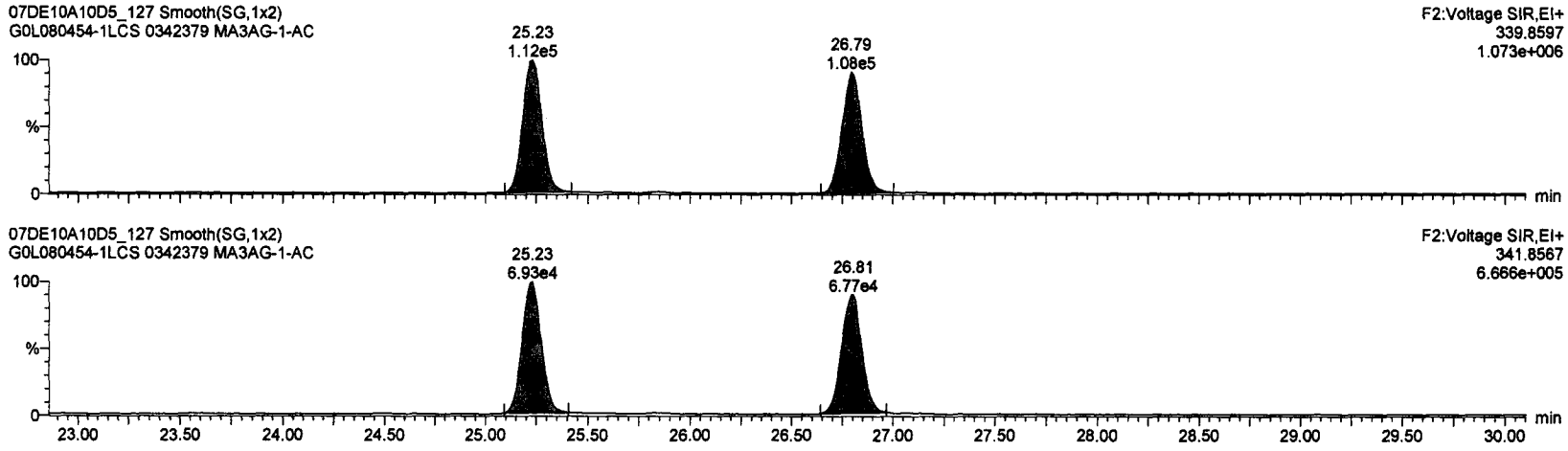
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

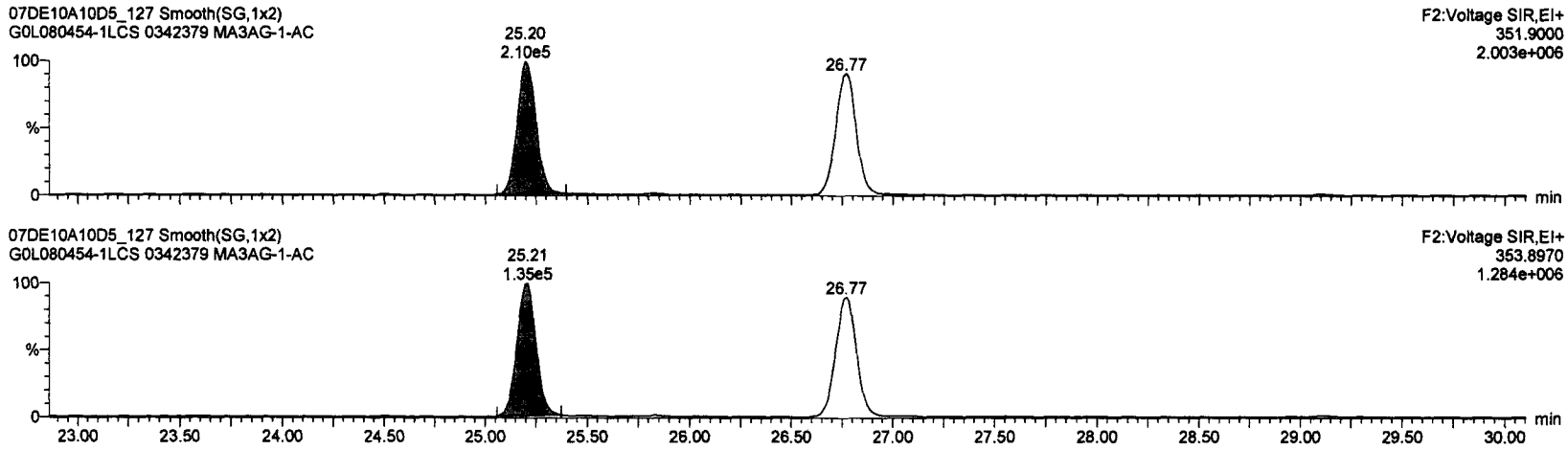
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

PeCDFs



13C-PeCDFs



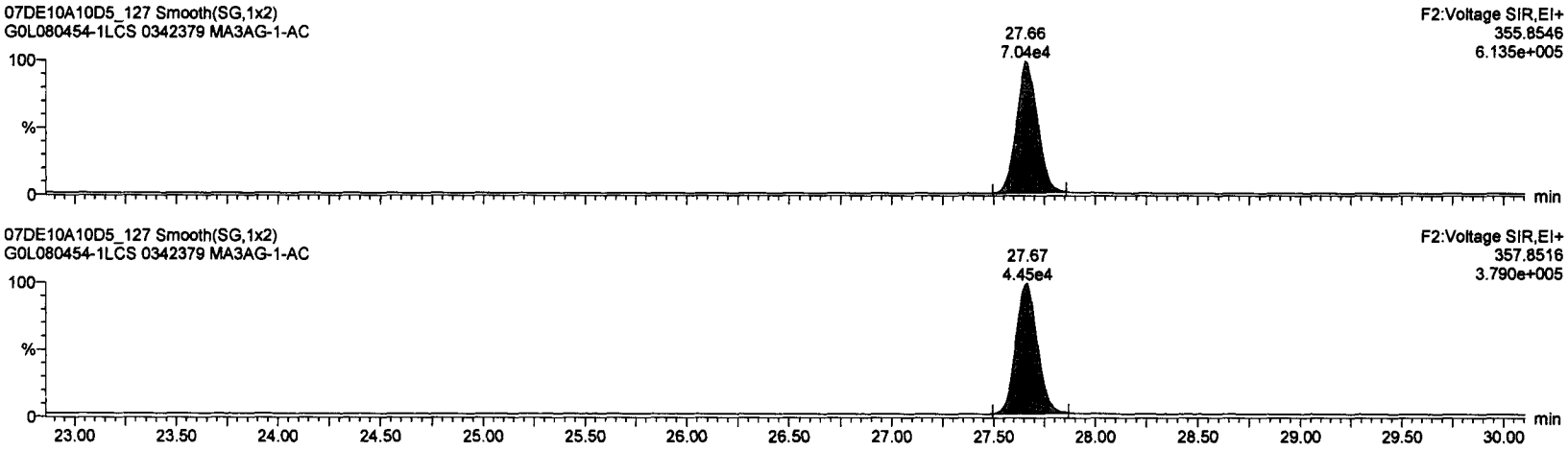
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

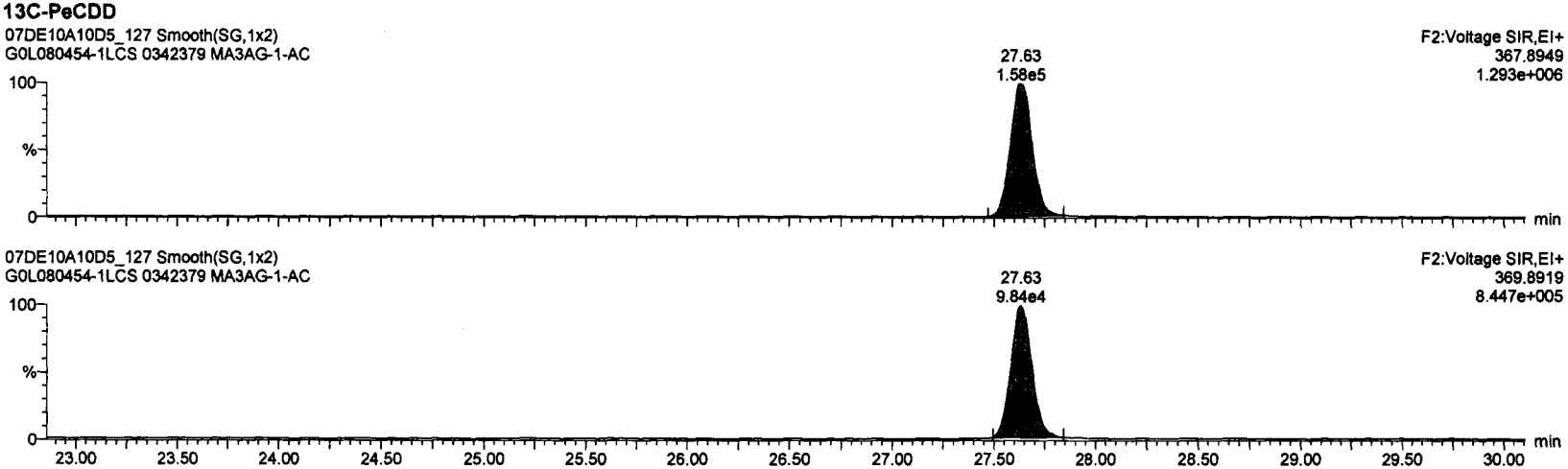
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

PeCDDs



13C-PeCDD



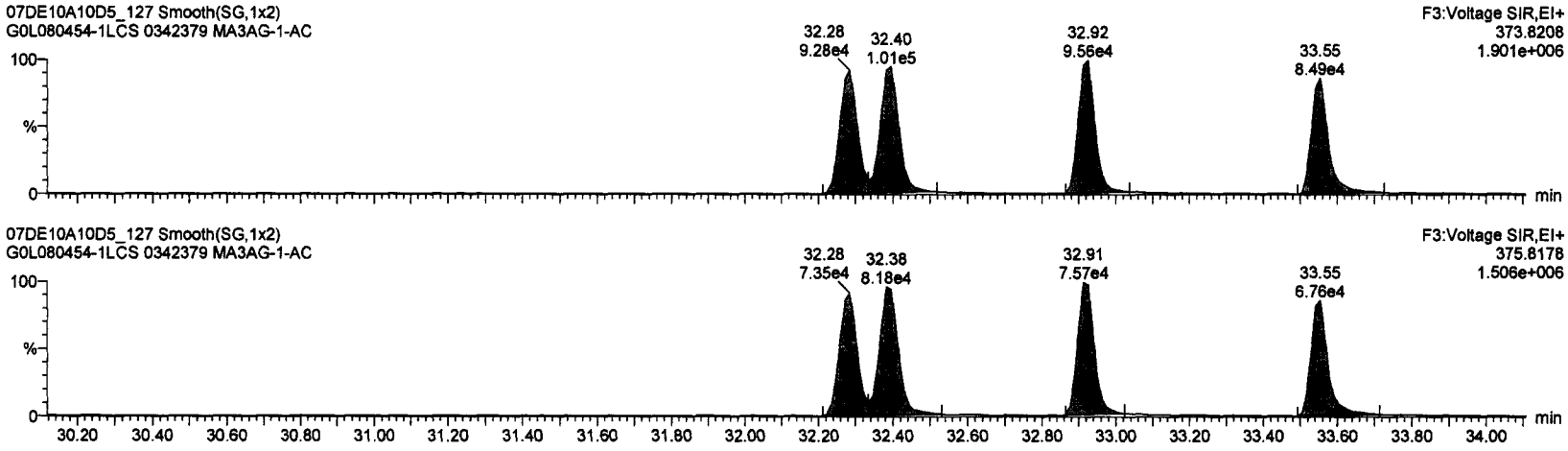
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

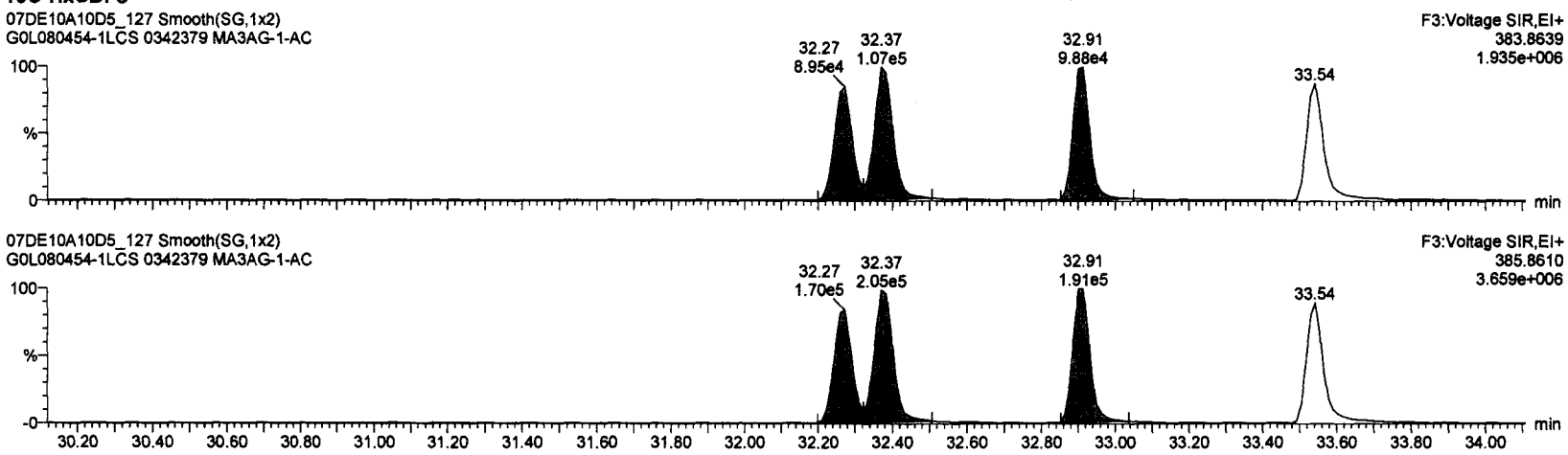
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

HxCDFs



13C-HxCDFs



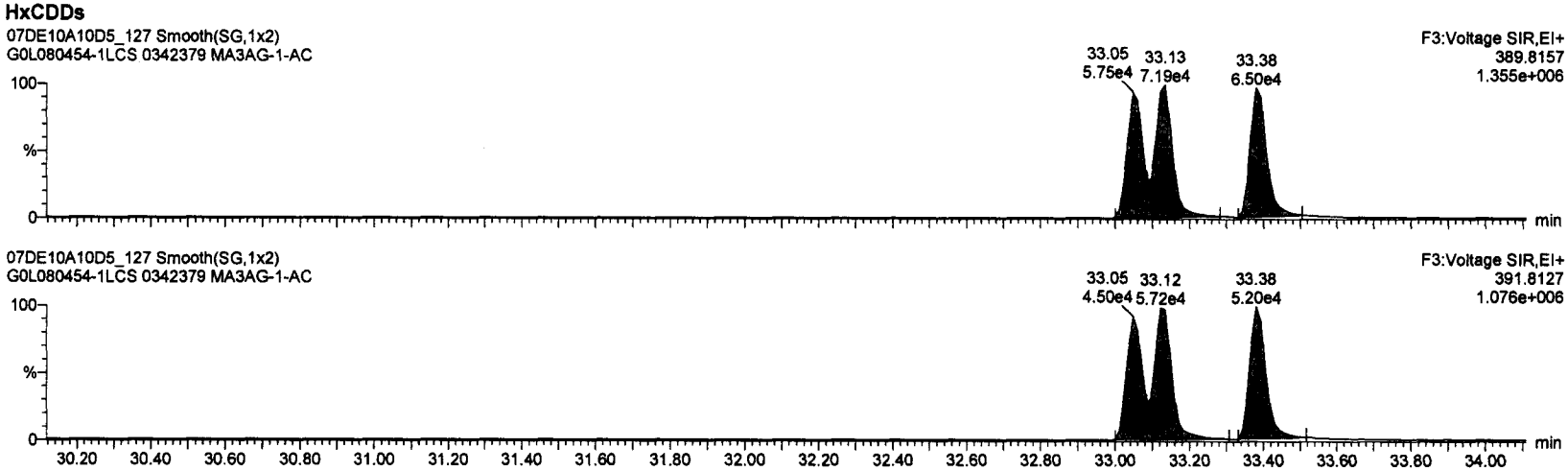
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

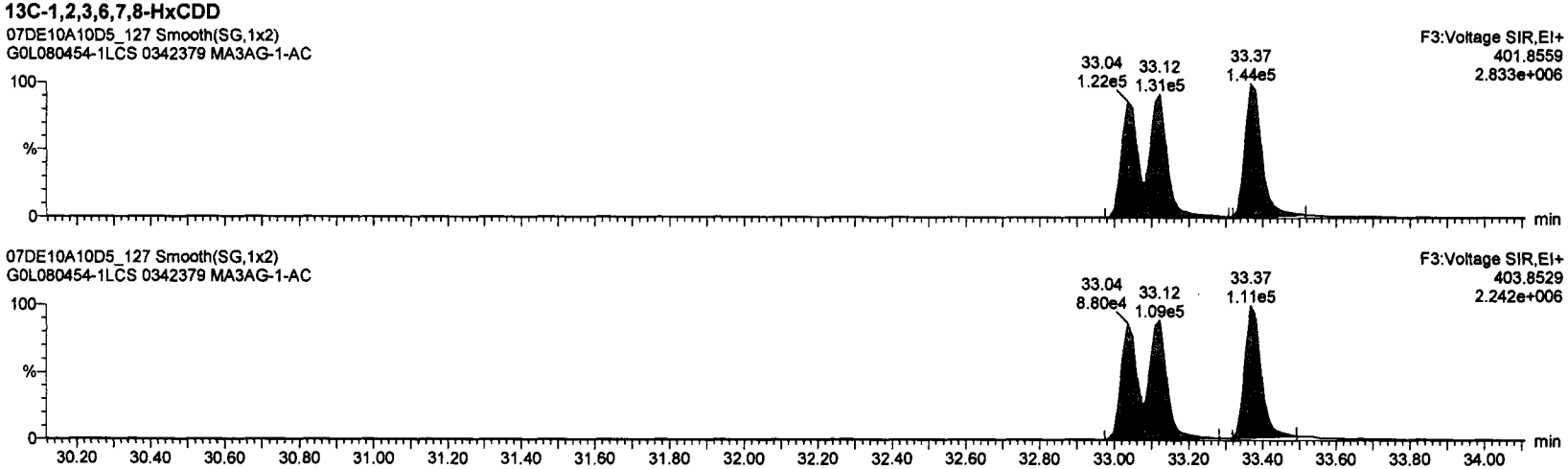
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



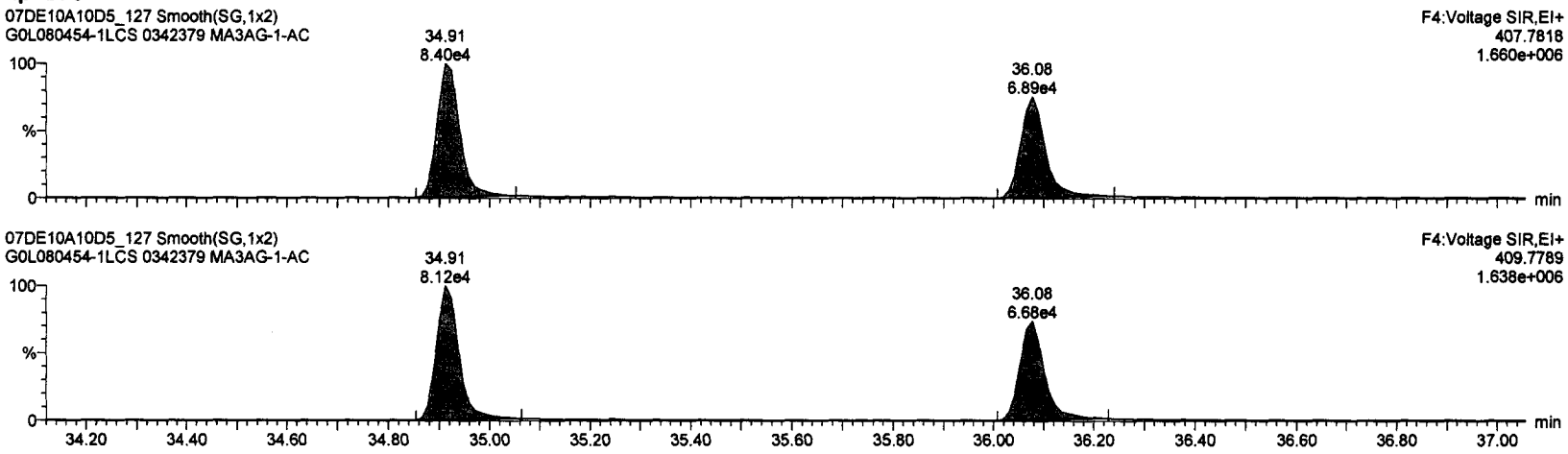
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

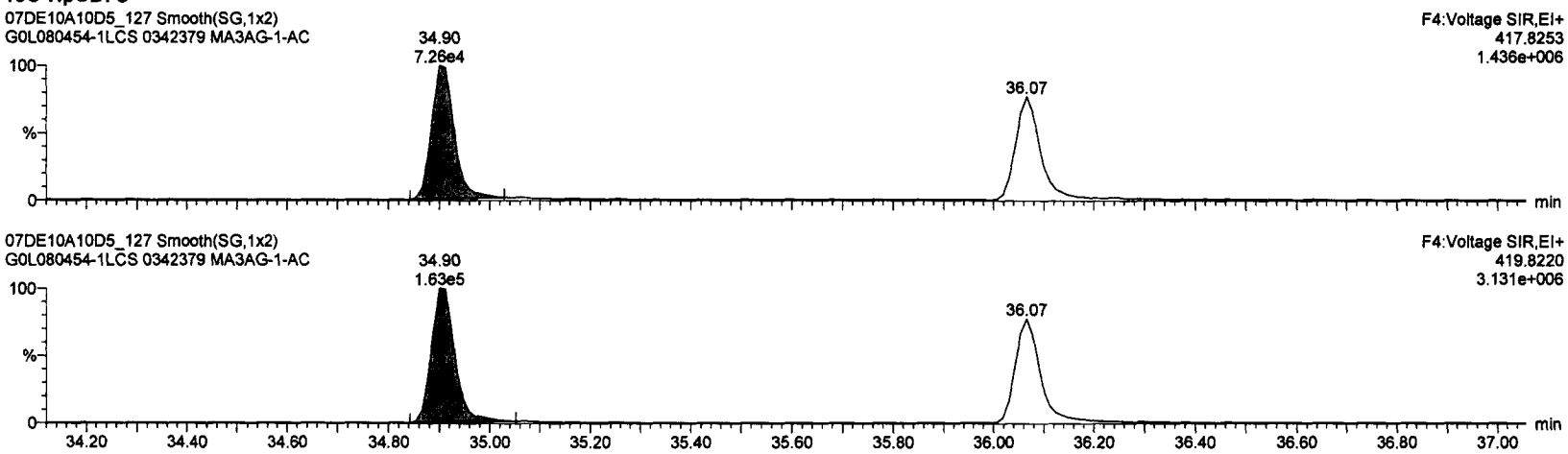
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

HpCDFs



13C-HpCDFs



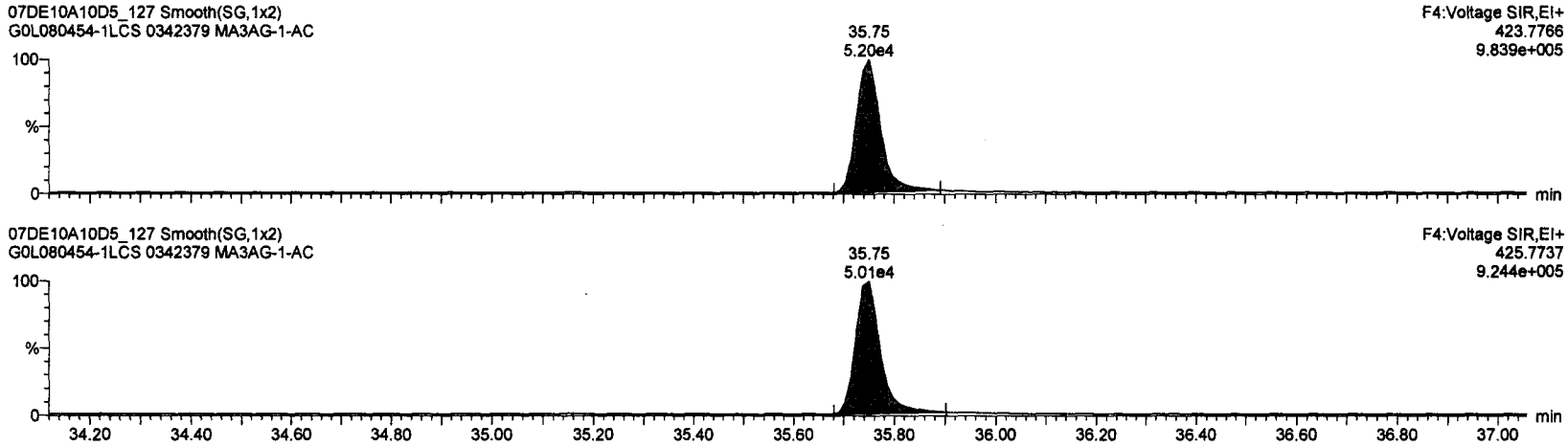
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

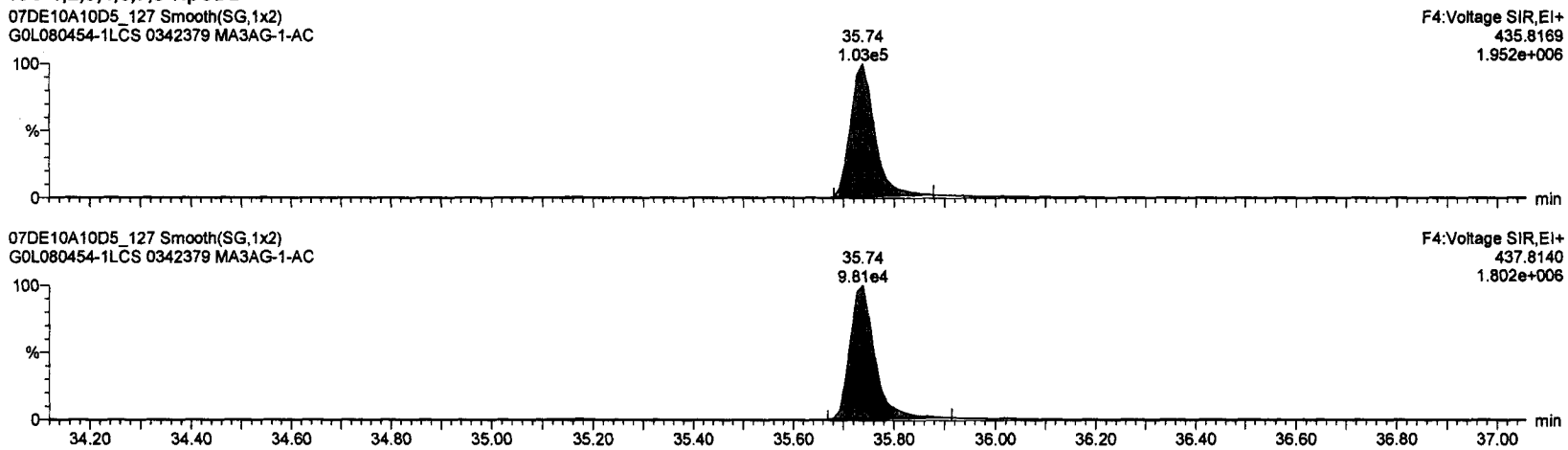
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



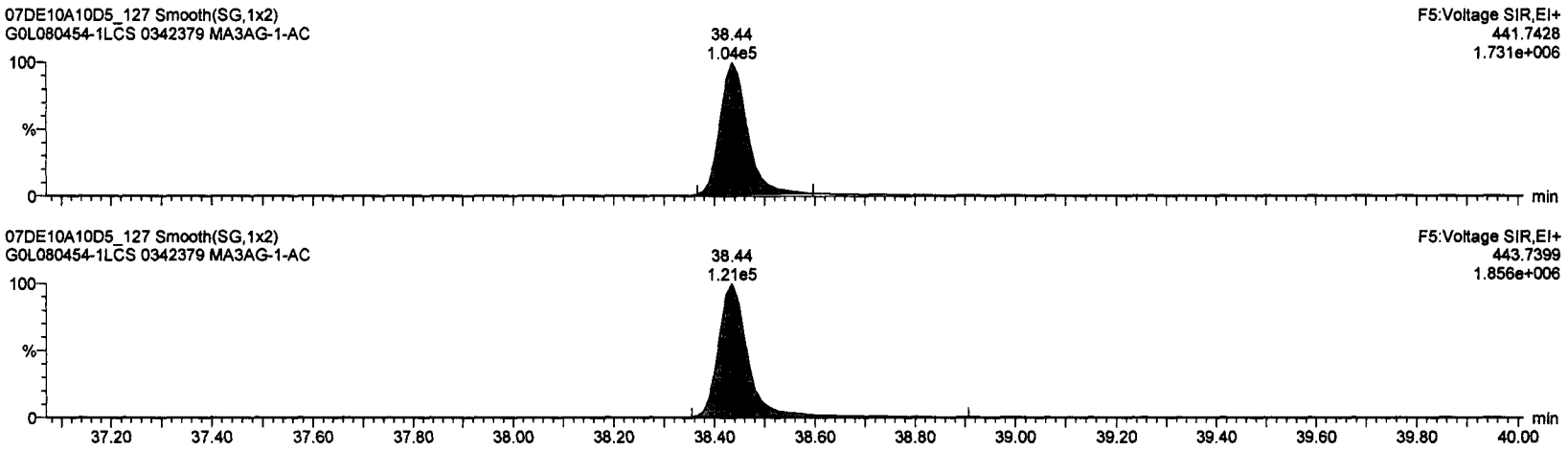
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

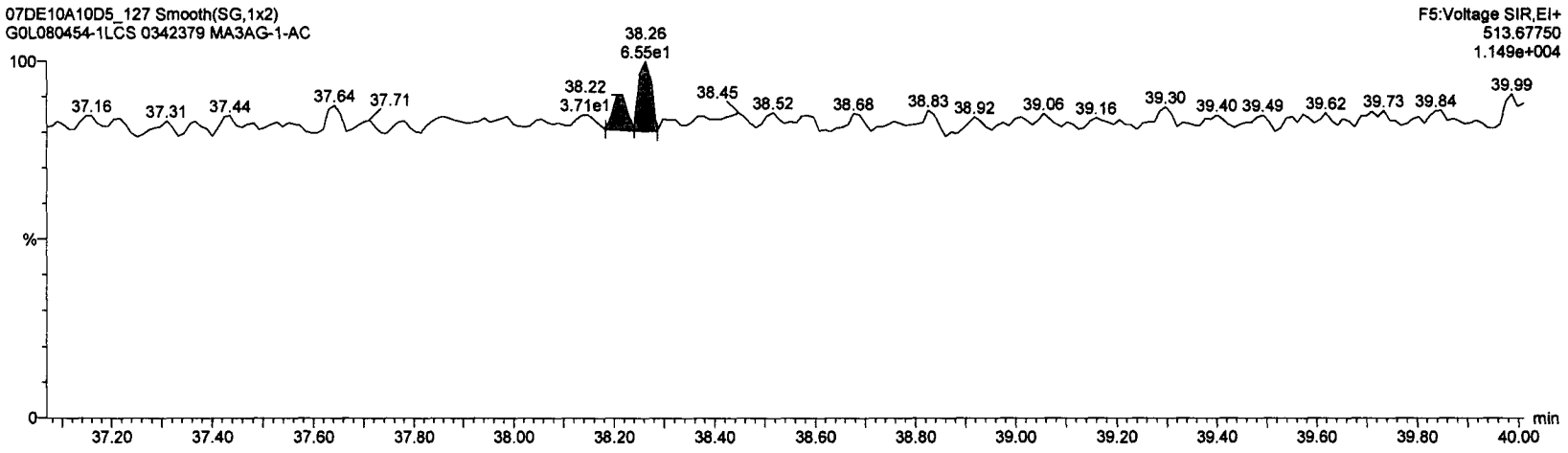
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

OCDFs



OCDF PCDPE



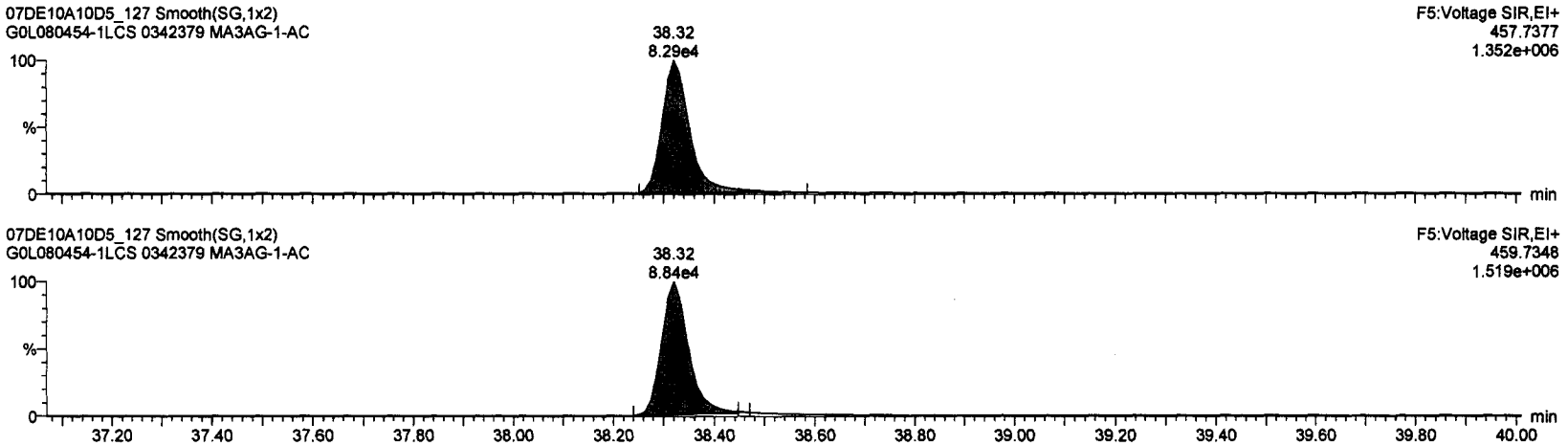
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

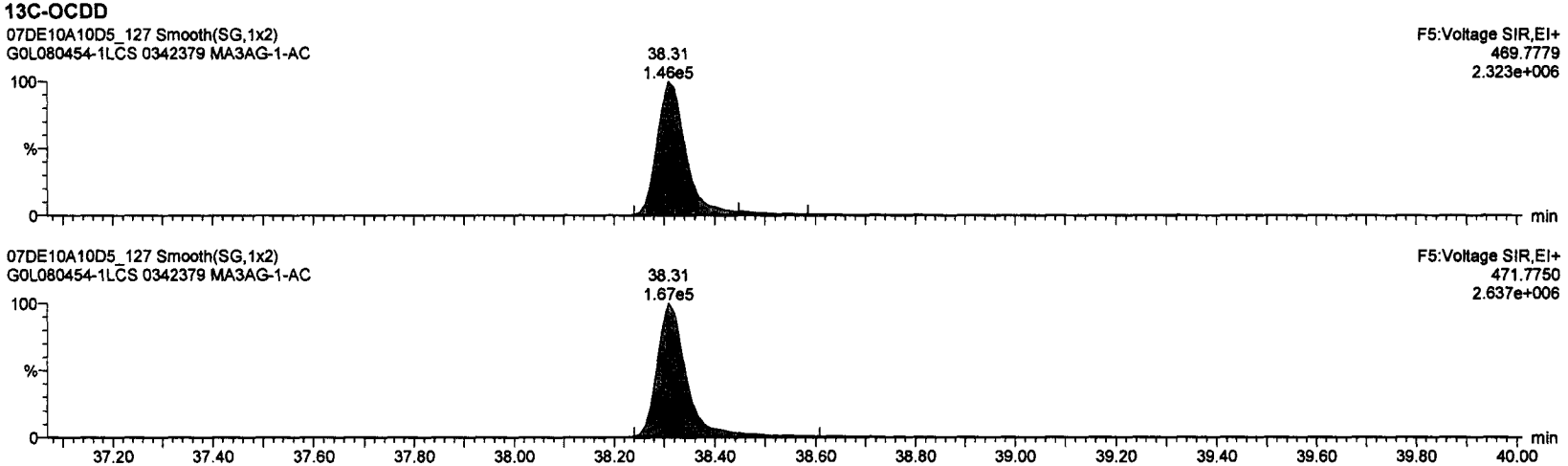
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

OCDD



13C-OCDD



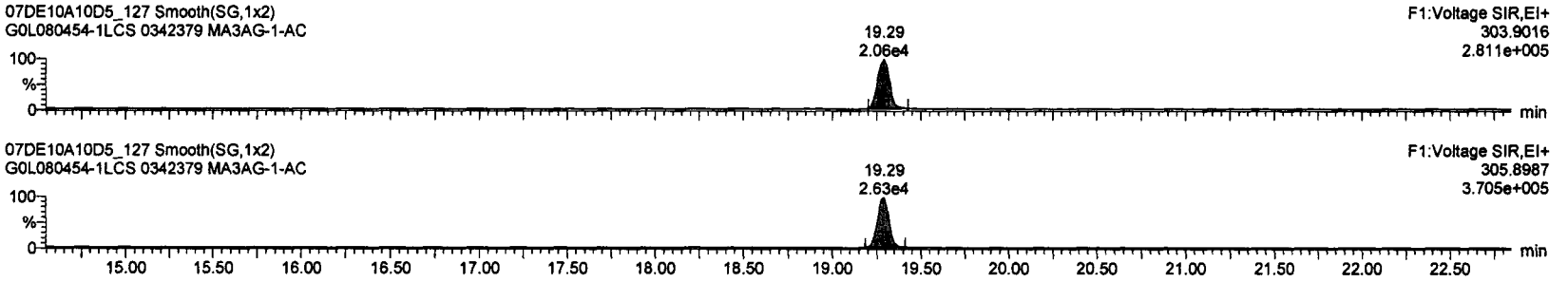
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

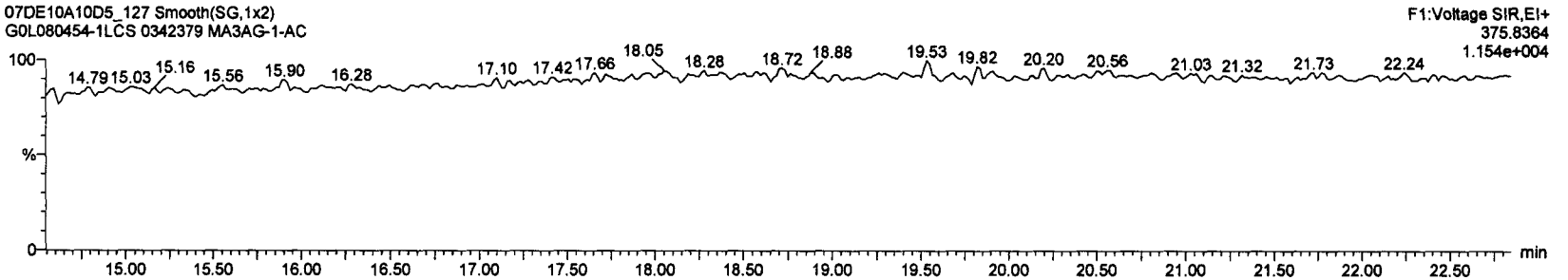
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

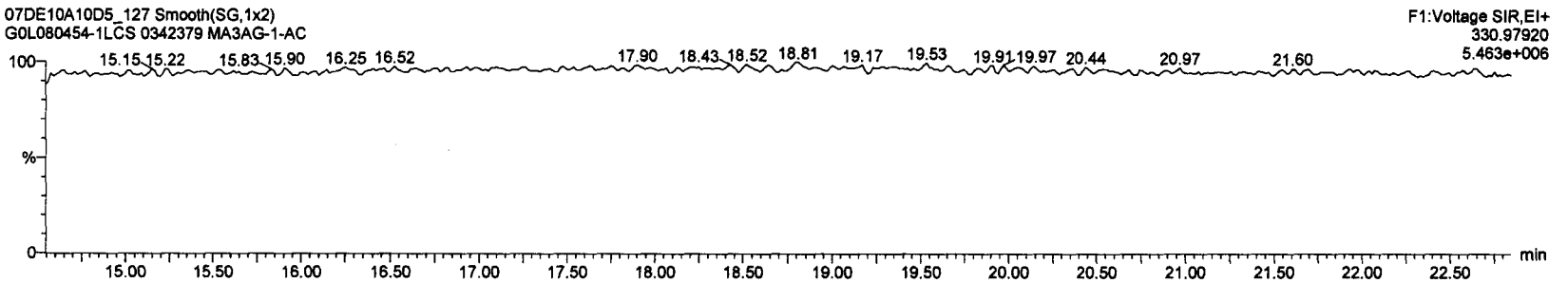
TCDFs



TCDF PCDPE



Function 1 PFK



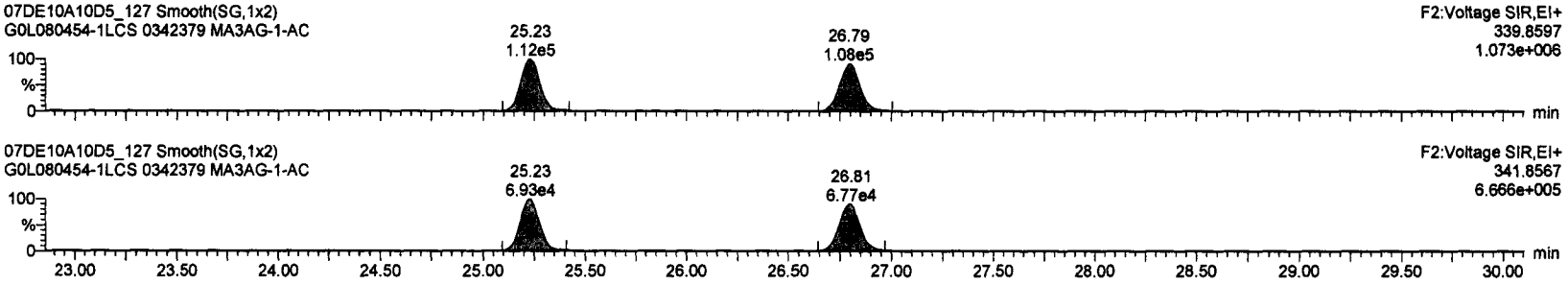
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

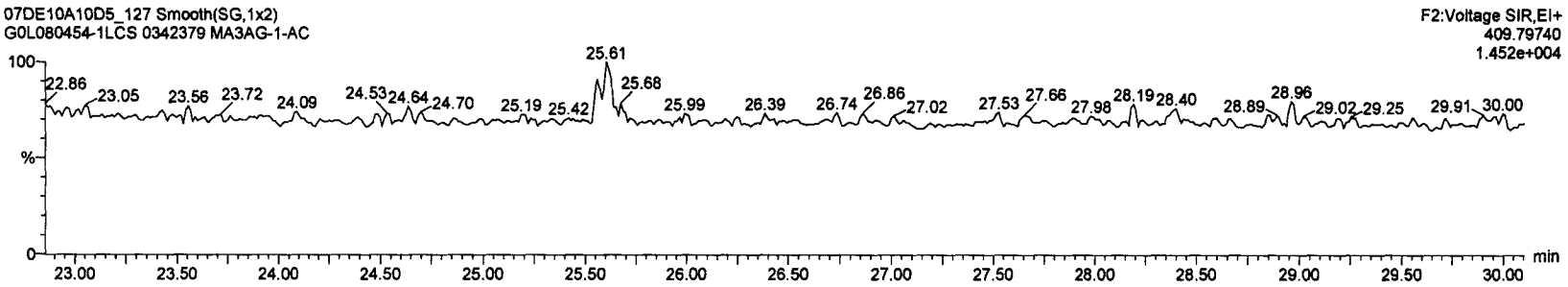
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

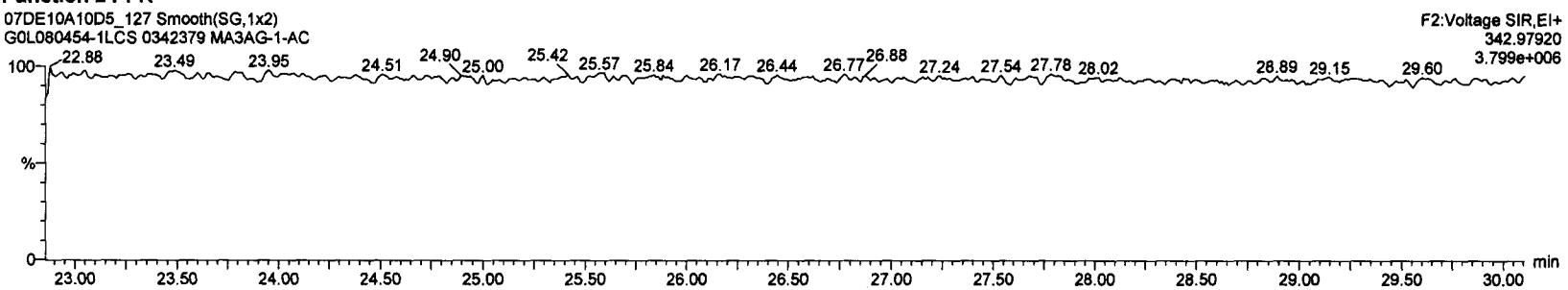
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



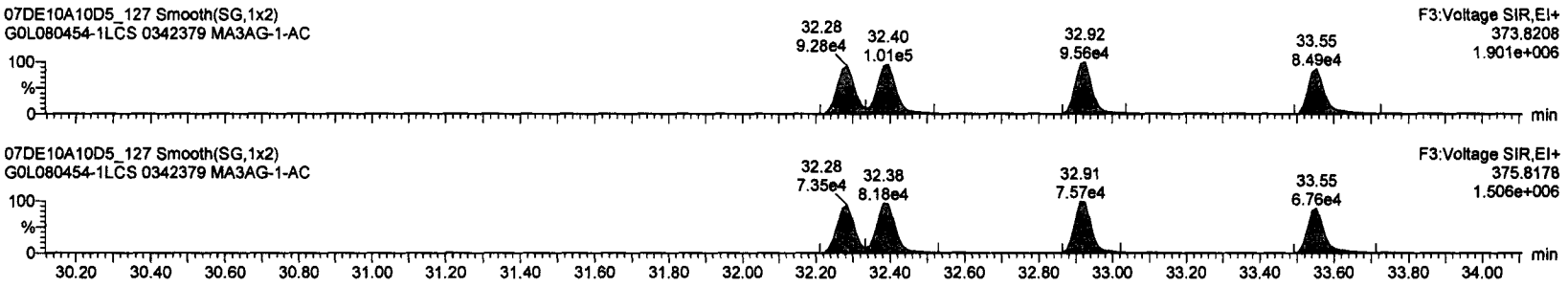
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

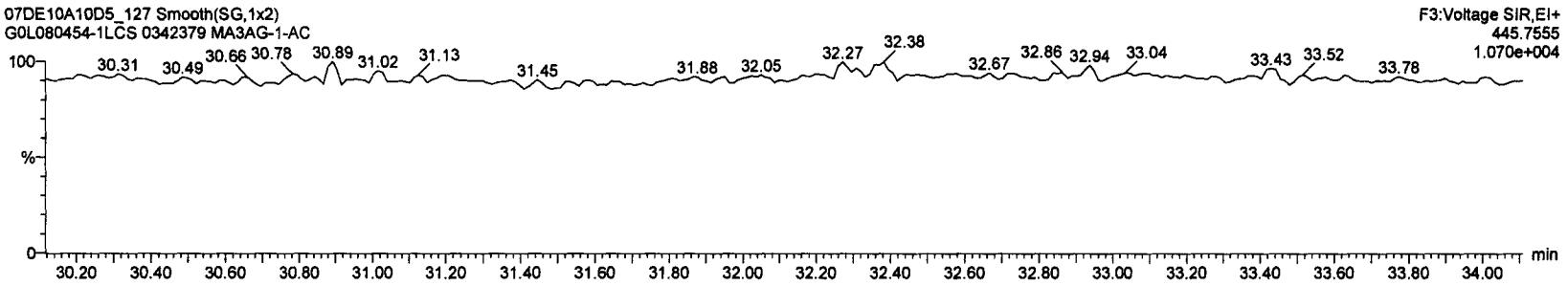
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

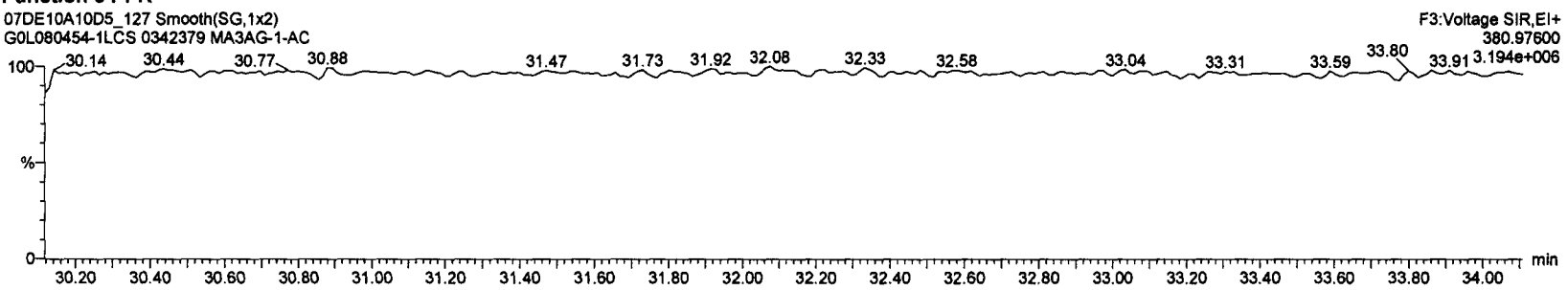
HxCDFs



HxCDF PCDPE



Function 3 PFK



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
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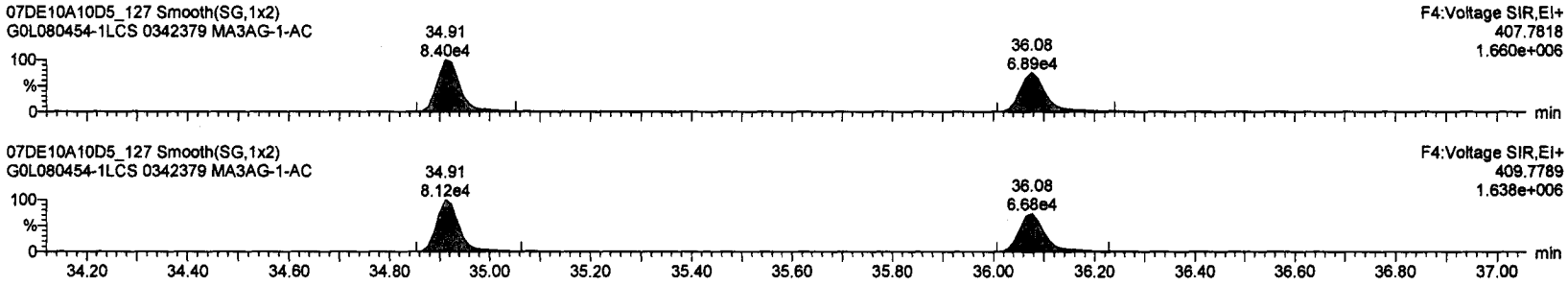
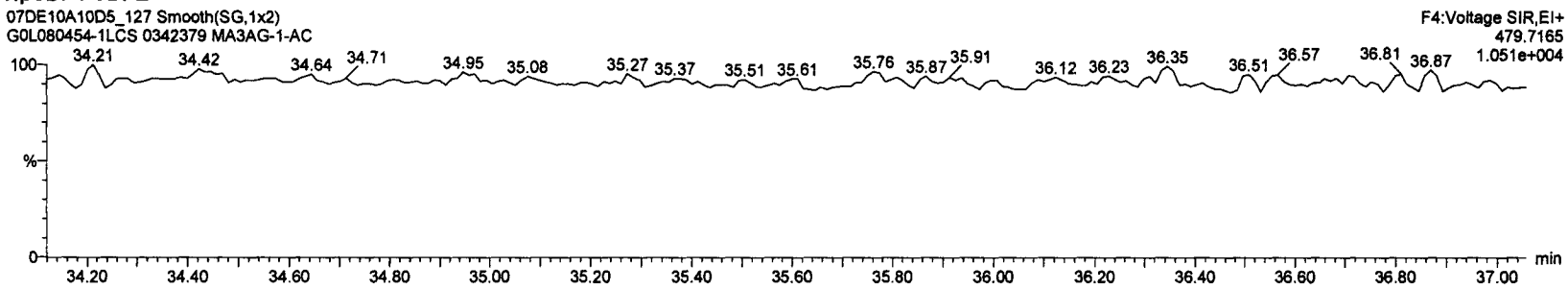
Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

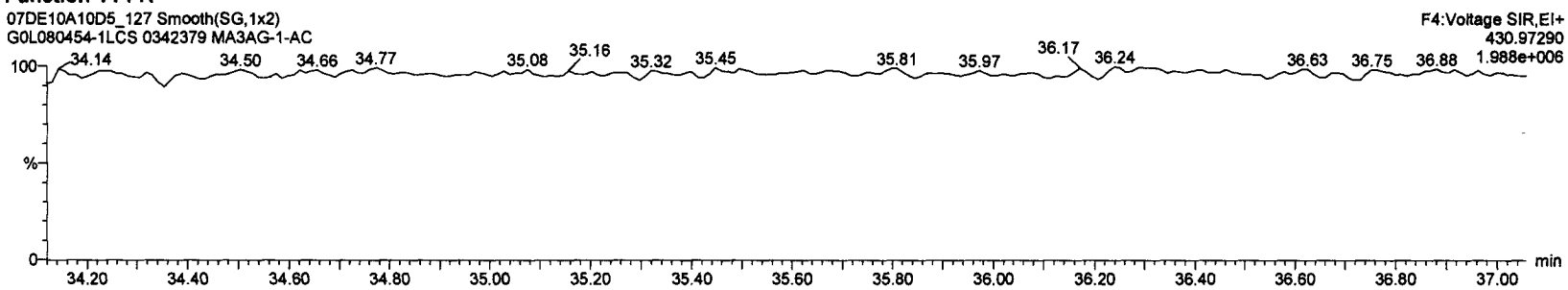
HpCDFs



HpCDF PCDPE



Function 4 PFK



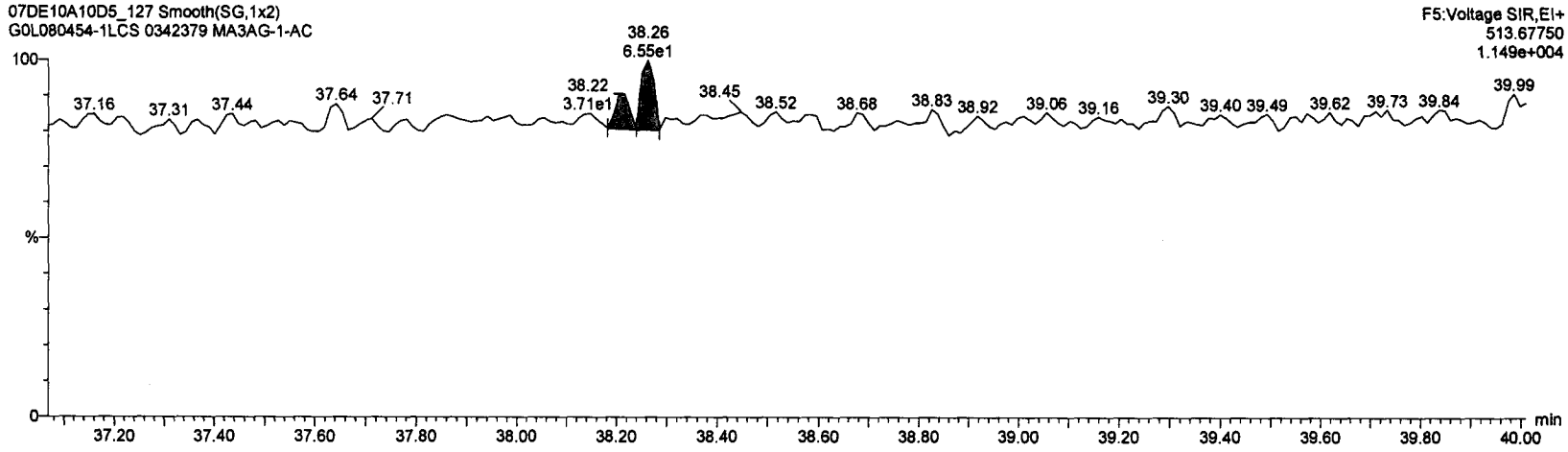
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

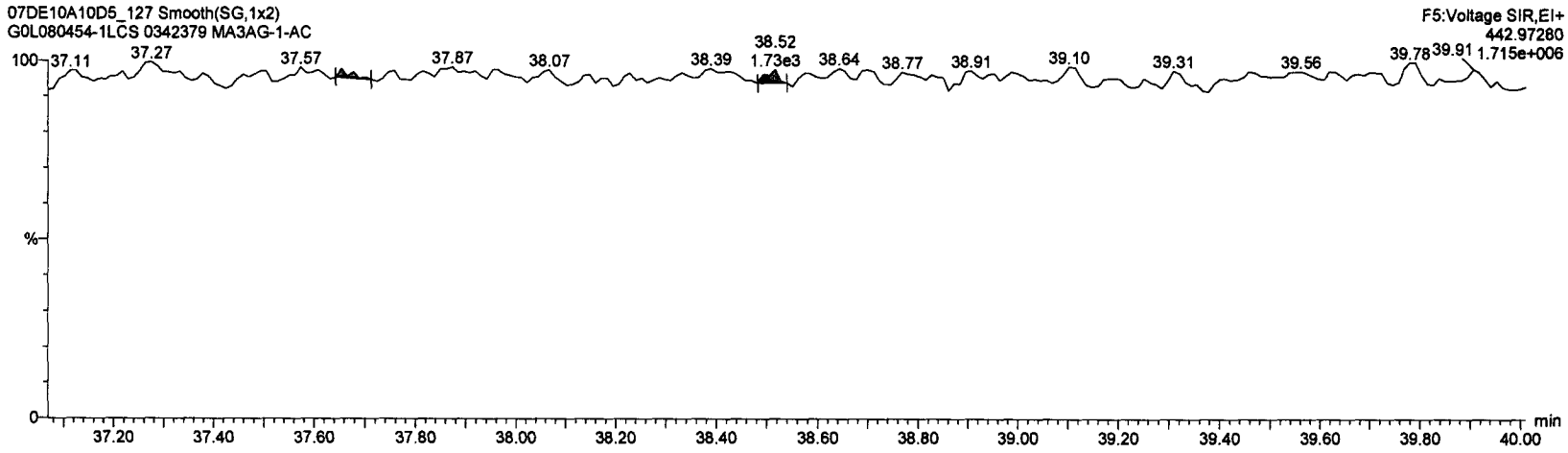
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_127, Date: 11-Dec-2010, Time: 17:01:05, ID: MA3AG-1-AC, Description: G0L080454-1LCS 0342379

OCDF PCDPE



Function 5 PFK



Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

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Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.87	1.00000	383063.92	4000.0000	4000.0000	100.0	4.50336	0.81	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	453212.09	3607.0117	3607.0117	90.2	3.03486	0.79	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.29	19.26	0.99766	45612.84	403.5192	403.5192		1.33570	0.80	NO	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		403.5192	403.5192		1.33570			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	323287.20	3712.1870	3712.1870	92.8	4.95210	0.78	NO	
8	2,3,7,8-TCDD	319.8965	0.500	20.12	20.11	1.03464	33008.86	394.7396	394.7396		1.72079	0.75	NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		394.7396	394.7396		1.72079			
10										NA				
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.12	20.09	0.65529	194.06	3.6640	0.0000	0.2	2.76312			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.93	1.02378	326826.24	3333.4818	3333.4818	83.3	4.16120	1.59	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	25.23	25.20	1.09163	180554.33	2024.2999	2024.2999		3.23682	1.61	NO	
15	2,3,4,7,8-PeCDF	339.8597	0.500	26.79	26.73	1.06412	175523.20	2018.7778	2018.7778		3.32052	1.60	NO	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		4043.0777	4043.0777		3.27814			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		1.4932	0.8558		1.99550			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.63	27.30	0.73445	238796.24	3395.1097	3395.1097	84.9	3.63605	1.59	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500	27.66	27.63	0.96030	112789.05	1967.4065	1967.4065		3.28701	1.56	NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		1967.4065	1967.4065		3.28701			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	236690.65	4000.0000	4000.0000	100.0	2.74637	1.26	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	245568.44	3954.6285	3954.6285	98.9	4.58946	0.51	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.27	32.26	1.31260	165171.95	2049.7039	2049.7039		2.34987	1.27	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.38	32.38	1.43801	179547.85	2033.7897	2033.7897		2.14494	1.23	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.91	32.92	1.35233	169439.67	2040.8885	2040.8885		2.28084	1.27	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500	33.55	33.56	1.19752	149245.02	2030.0451	2030.0451		2.57570	1.32	NO	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		8154.4271	8154.4271		2.32768			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	221293.98	4134.5549	4134.5549	103.4	3.03627	1.27	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500	33.05	33.04	0.98150	106493.66	1961.2009	1961.2009		2.36784	1.23	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500	33.12	33.11	1.09425	122760.66	2027.8372	2027.8372		2.12387	1.25	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500	33.38	33.38	1.05784	112795.69	1927.3582	1927.3582		2.19696	1.28	NO	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379, Task:

#	Name	Trace	Sample Size	RT	Pro.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		5916.3963	5916.3963		2.22496			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	211397.78	3745.1923	3745.1923	93.6	7.64618	0.45	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	159253.59	2059.9847	2059.9847		3.69420	1.05	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.08	36.07	1.23081	134311.91	2064.8260	2064.8260		4.39051	1.02	NO	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		4124.8108	4124.8108		4.01237			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.74	35.75	0.84836	184964.61	3684.5683	3684.5683	92.1	9.93572	1.04	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.74	35.74	1.05453	102458.75	2101.1668	2101.1668		3.21247	1.09	NO	
45	Total HpCDDs	423.7766	0.500		0.09	1.05453		2101.1668	2101.1668		3.21247			
46														
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	288657.11	7230.8031	7230.8031	90.4	12.61723	0.89	NO	
48	OCDF	441.7428	0.500	38.44	38.43	1.48610	214017.23	3991.2501	3991.2501		5.00209	0.90	NO	
49	OCDD	457.7377	0.500	38.32	38.31	1.14618	167538.04	4051.0448	4051.0448		4.23431	0.88	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
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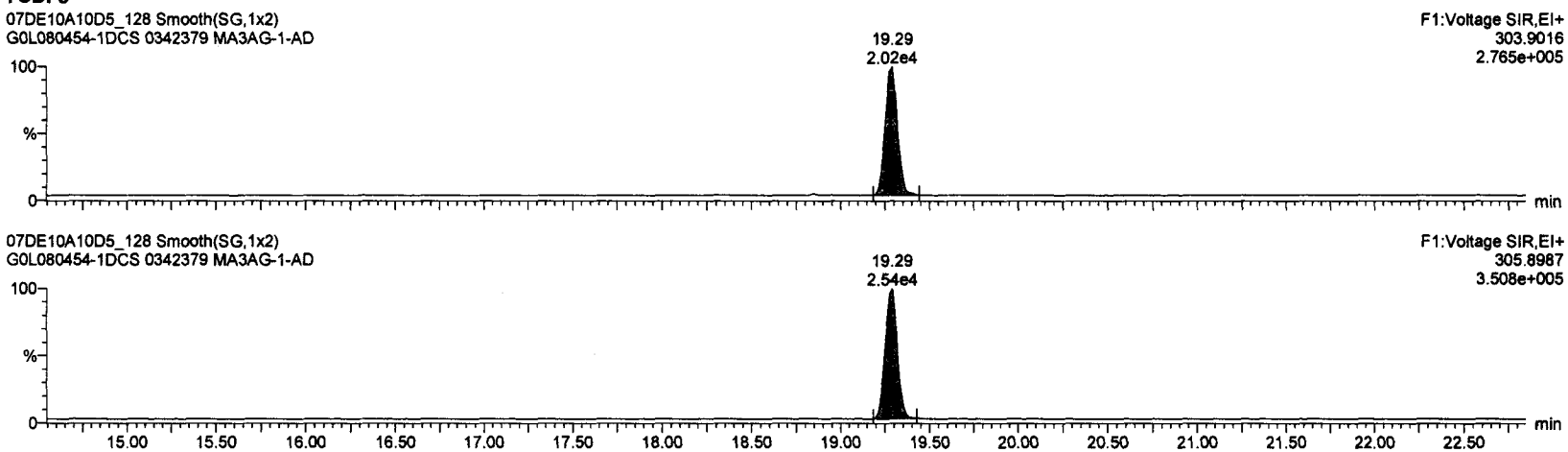
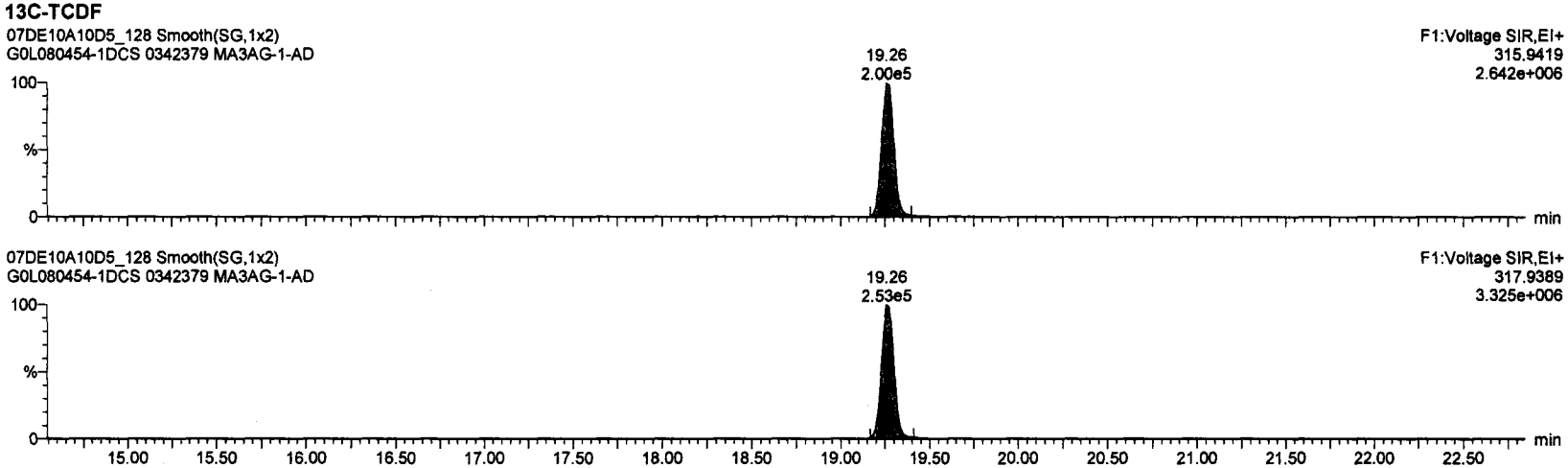
Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

TCDFs



13C-TCDF



Quantify Sample Report **MassLynx 4.1**

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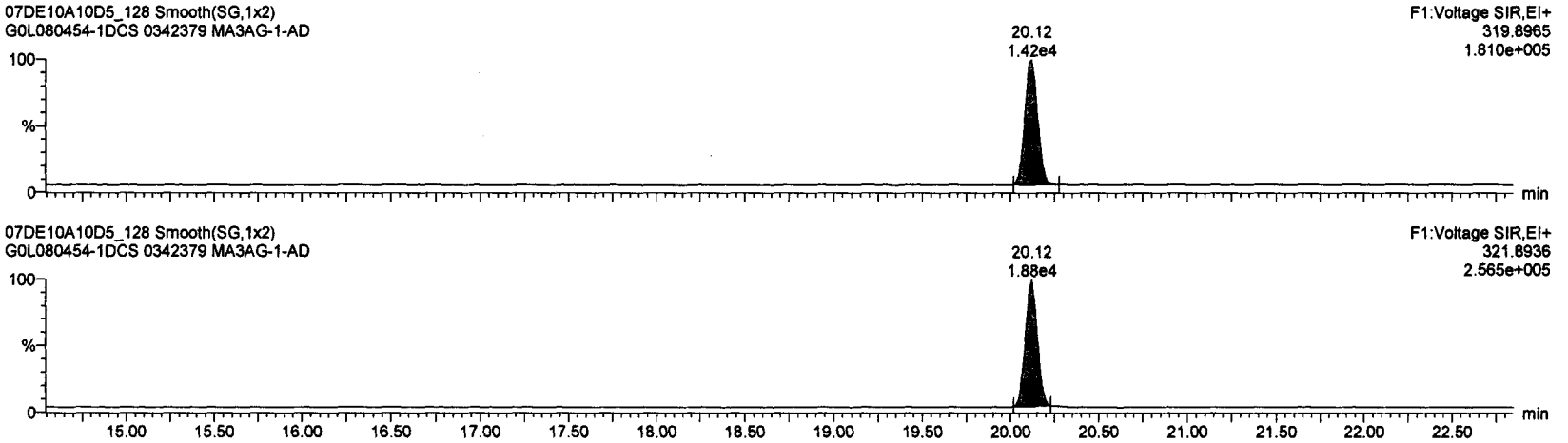
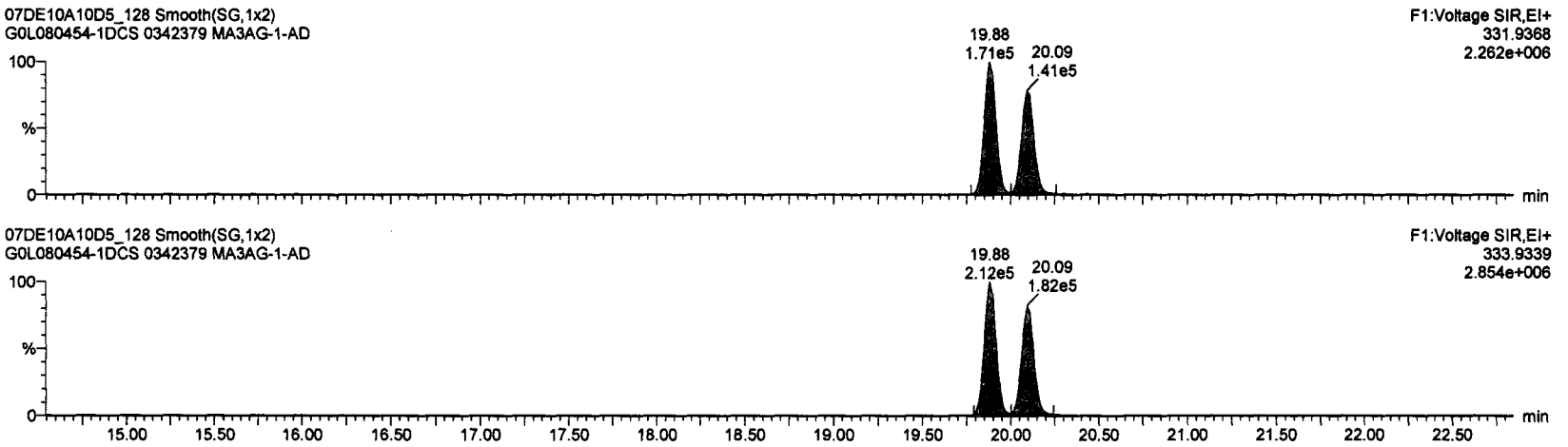
TCDDs



13C-TCDDs



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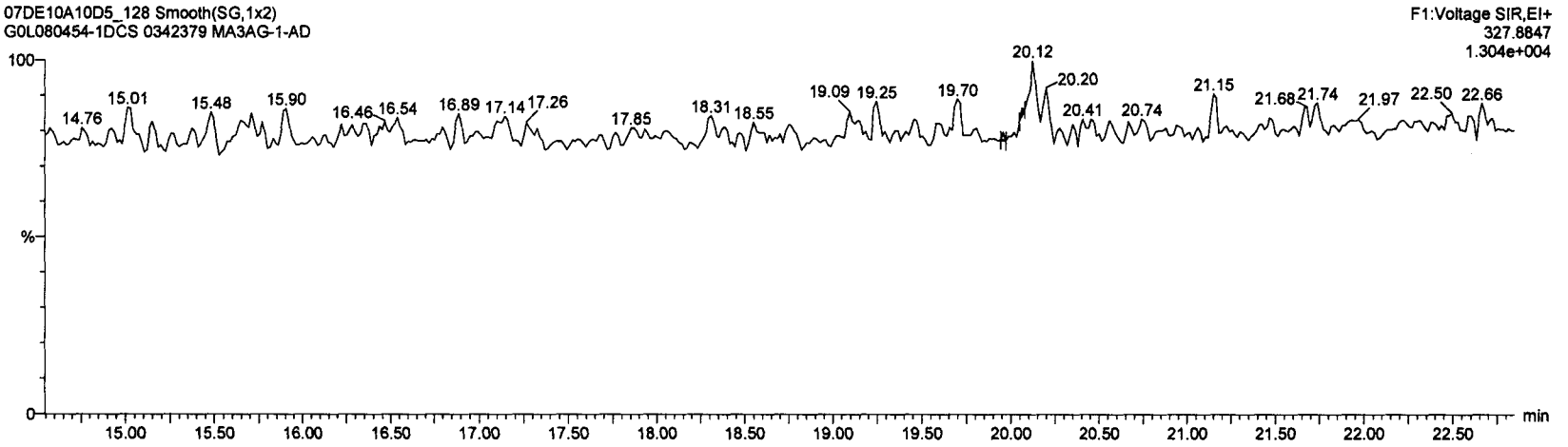
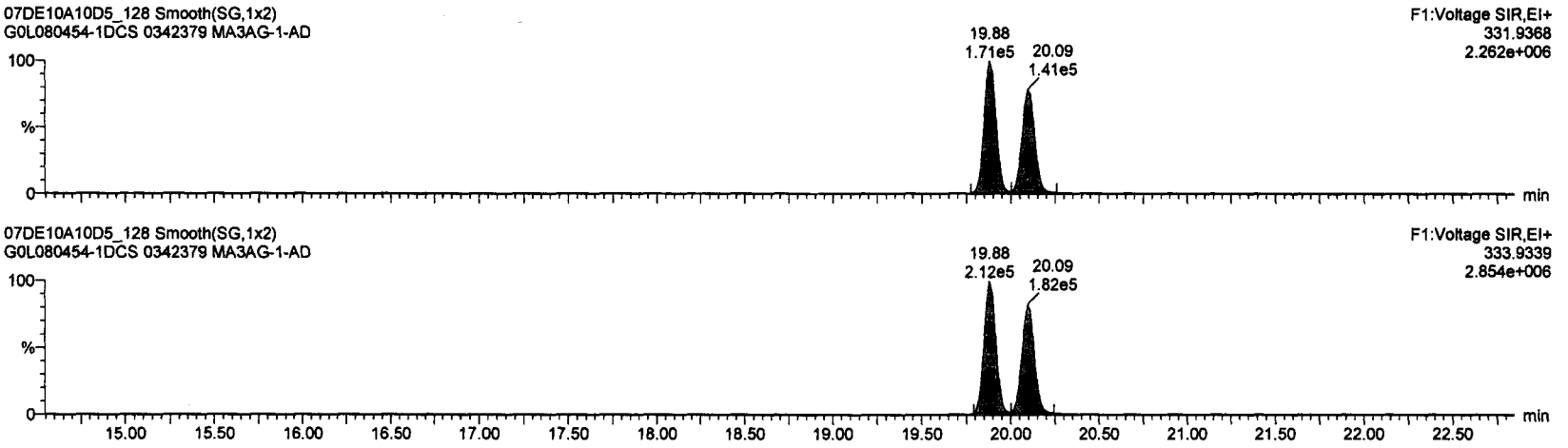
37CL-2,3,7,8-TCDD



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

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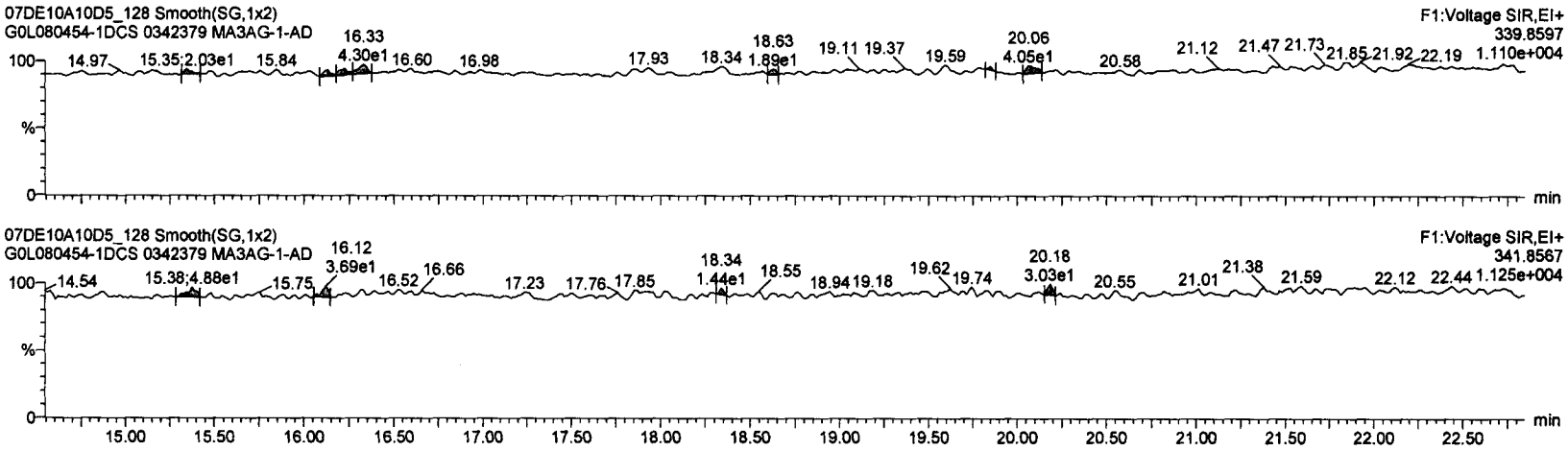
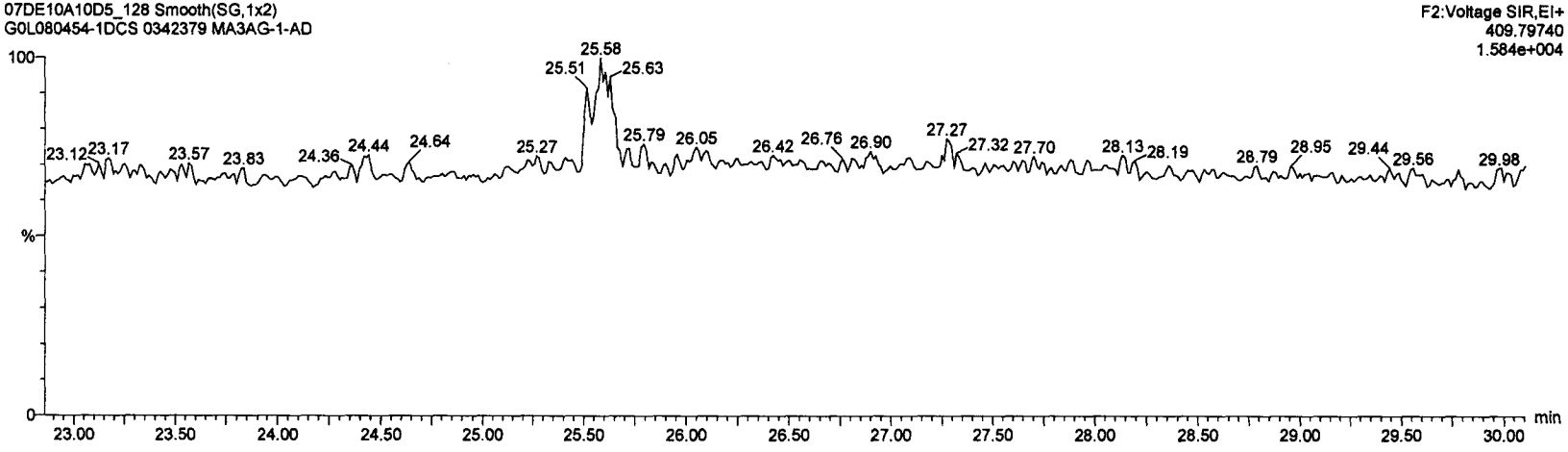
Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

F1 PeCDFs



F1 PeCDF PCDPE



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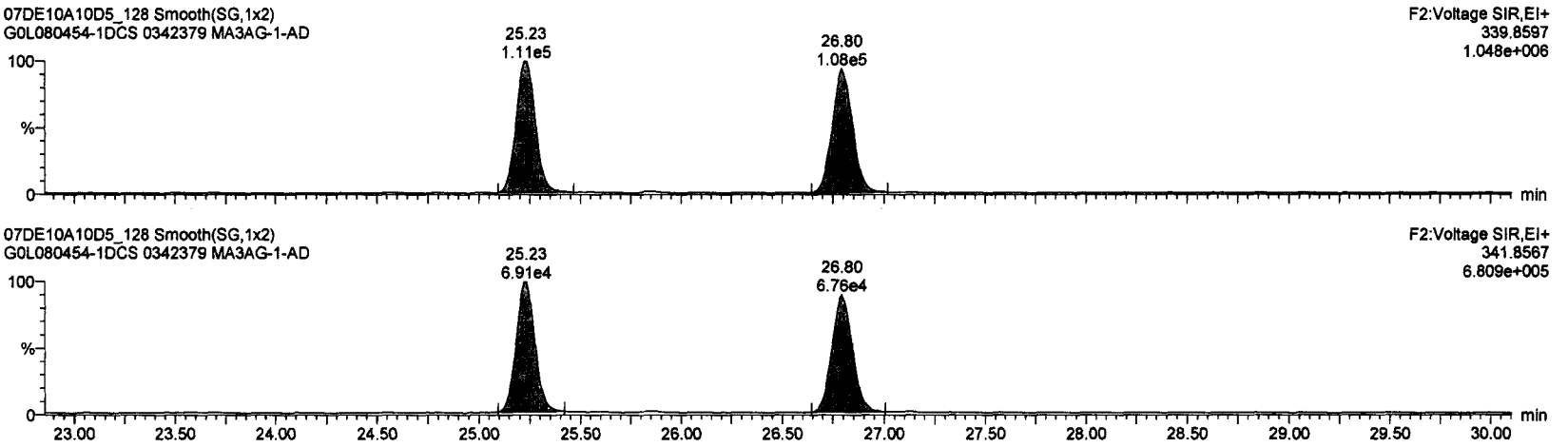
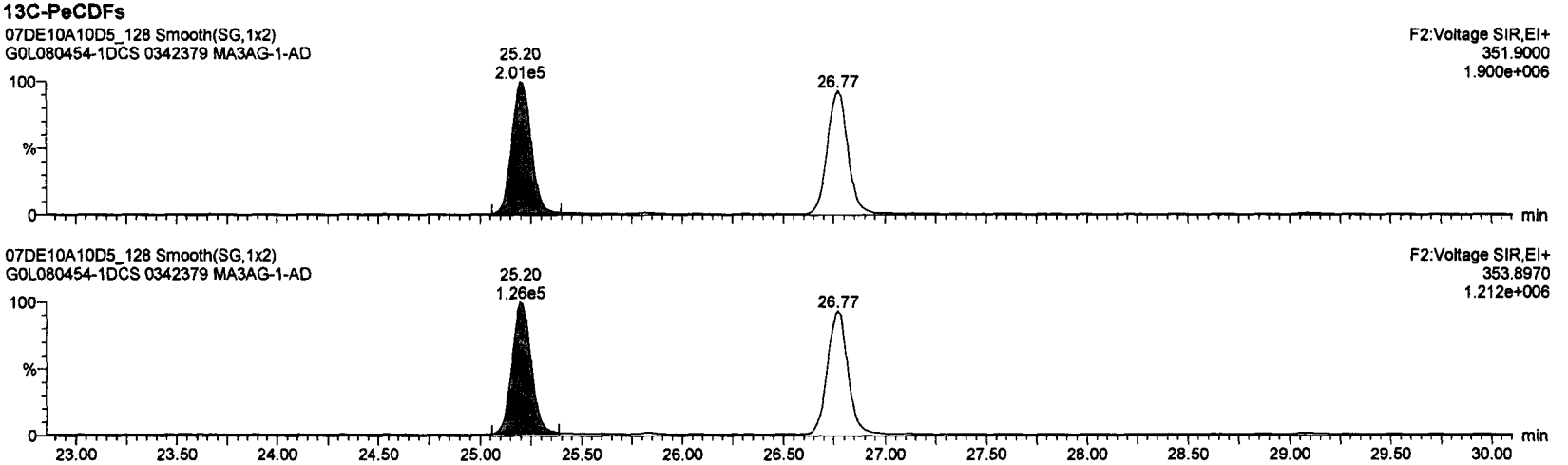
PeCDFs



13C-PeCDFs



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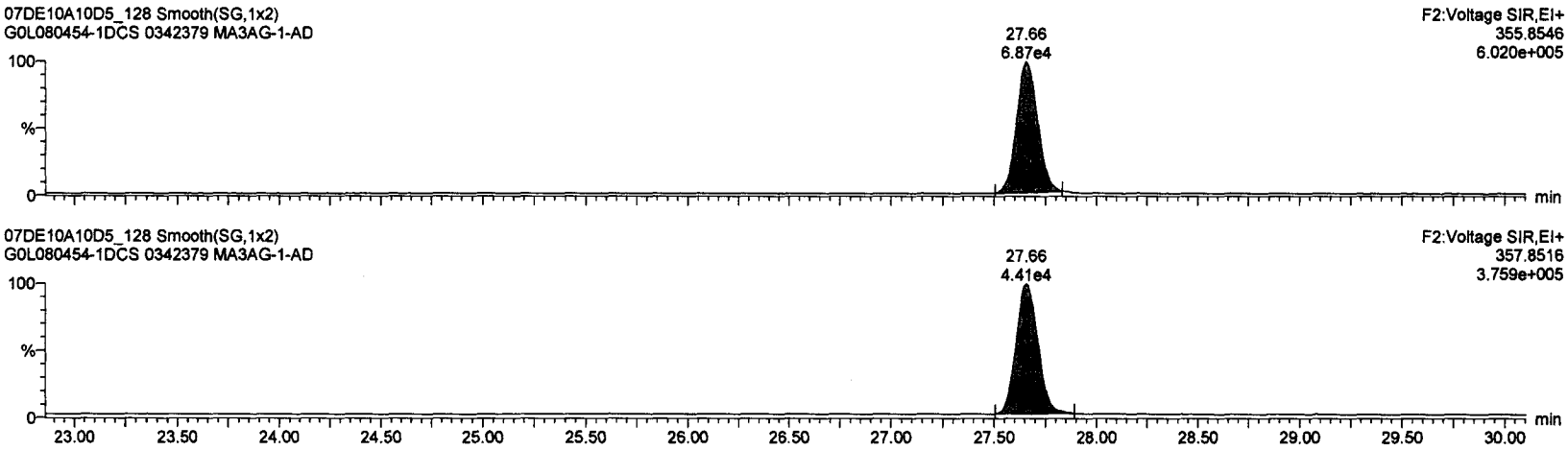
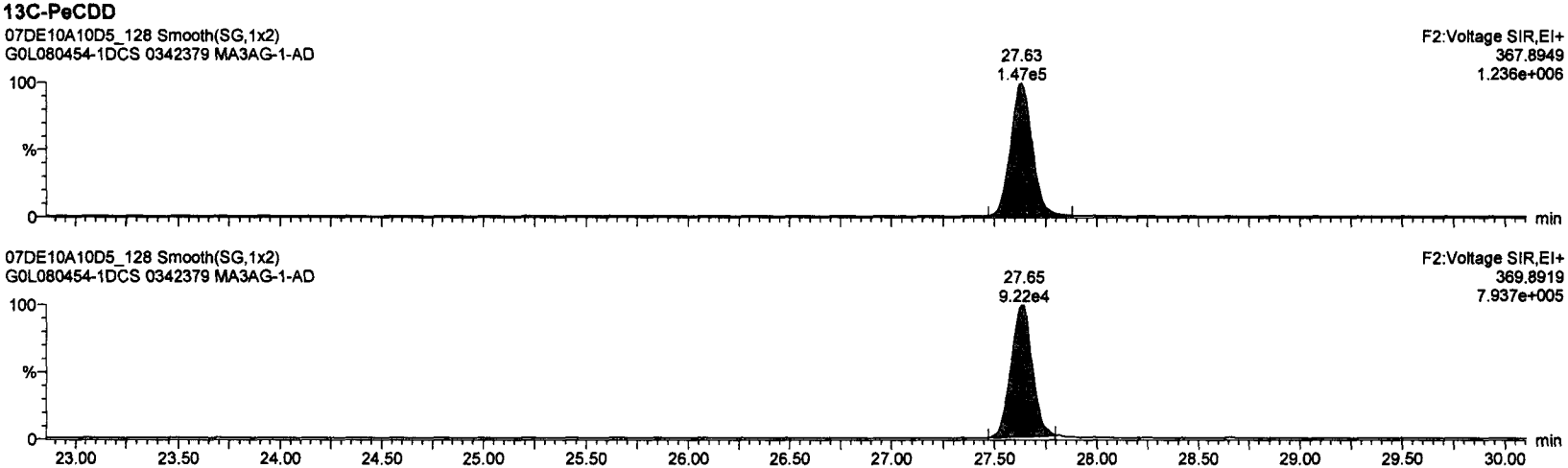
PeCDDs



13C-PeCDD



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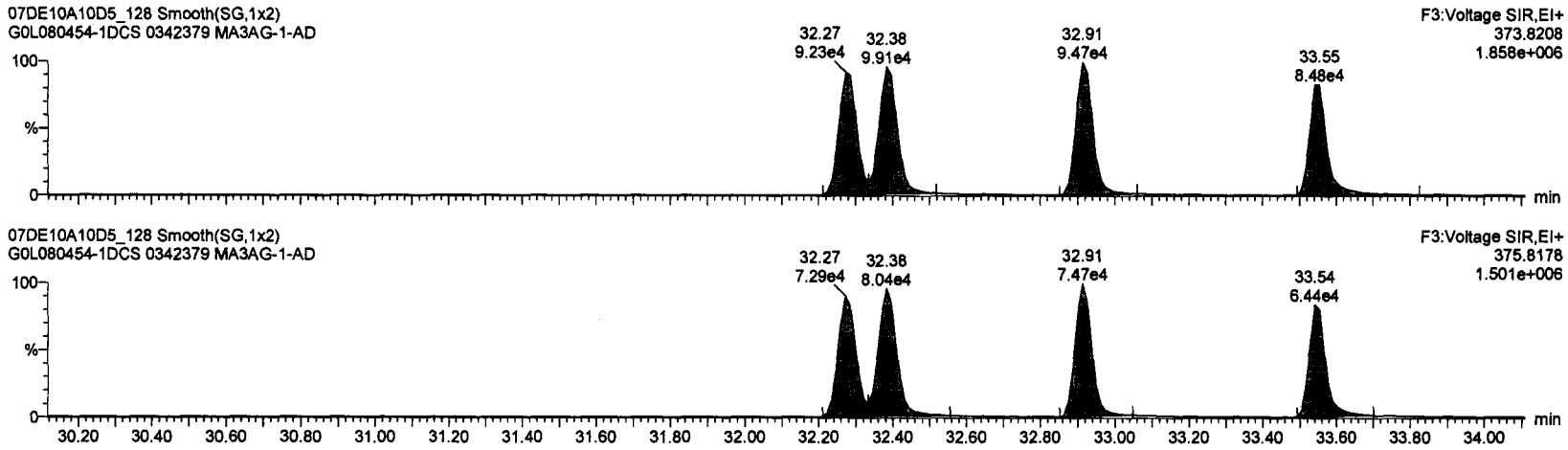
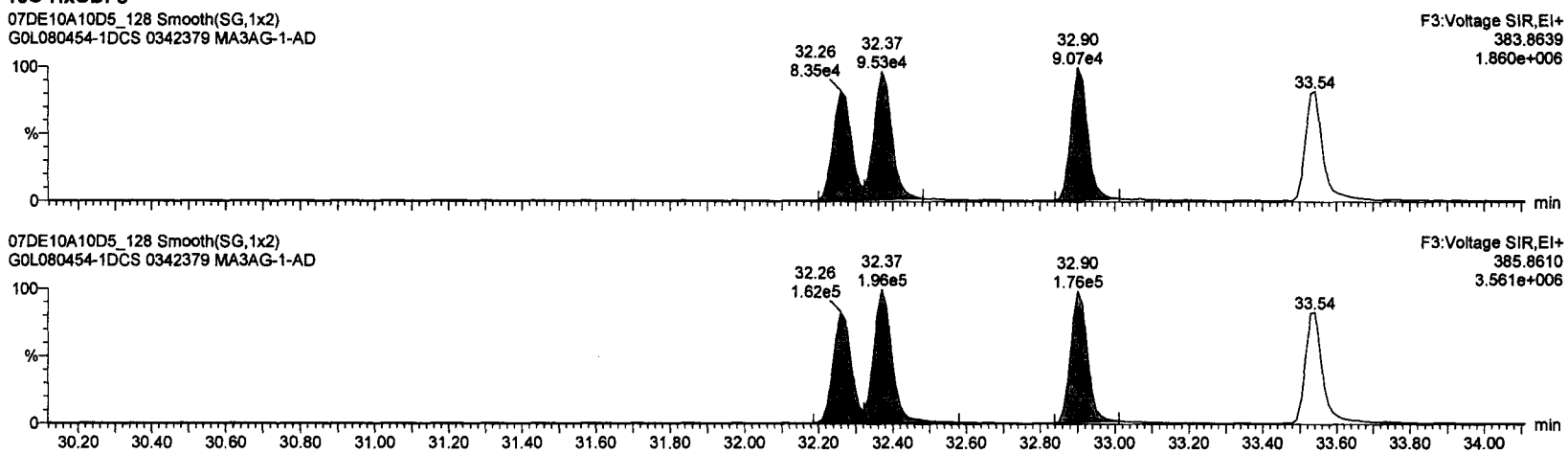
Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
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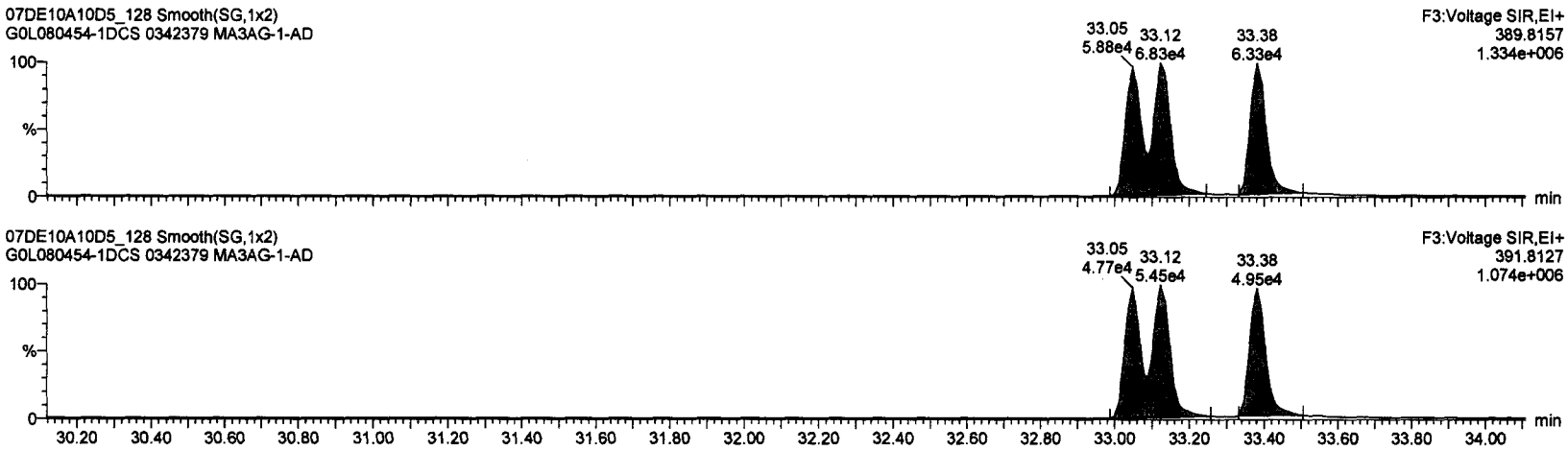
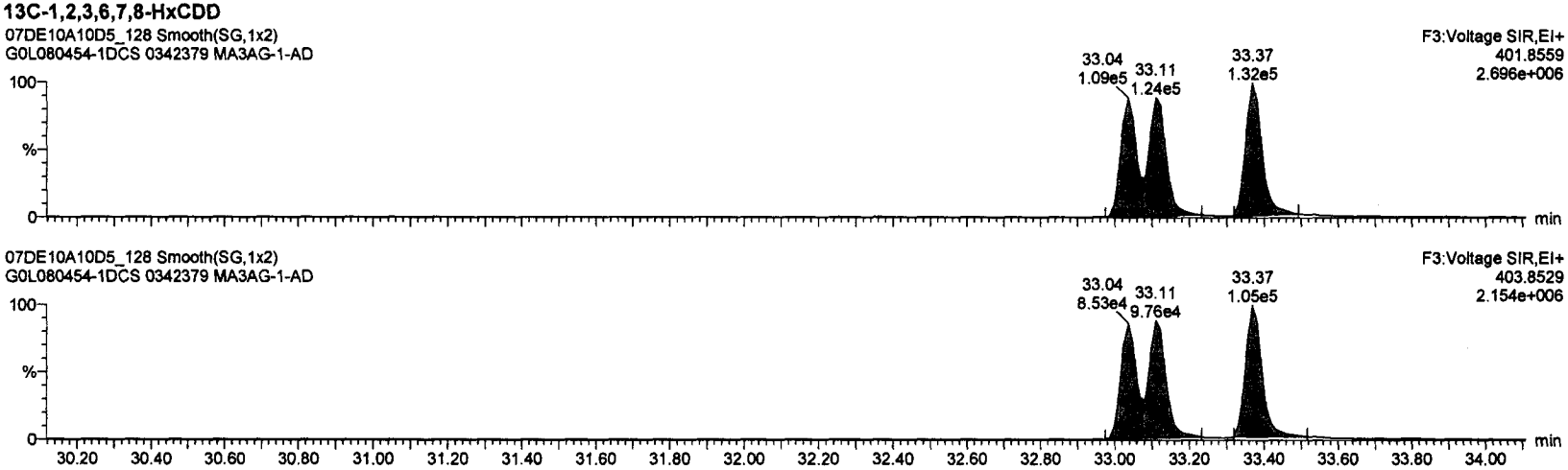
HxCDDs



13C-1,2,3,6,7,8-HxCDD



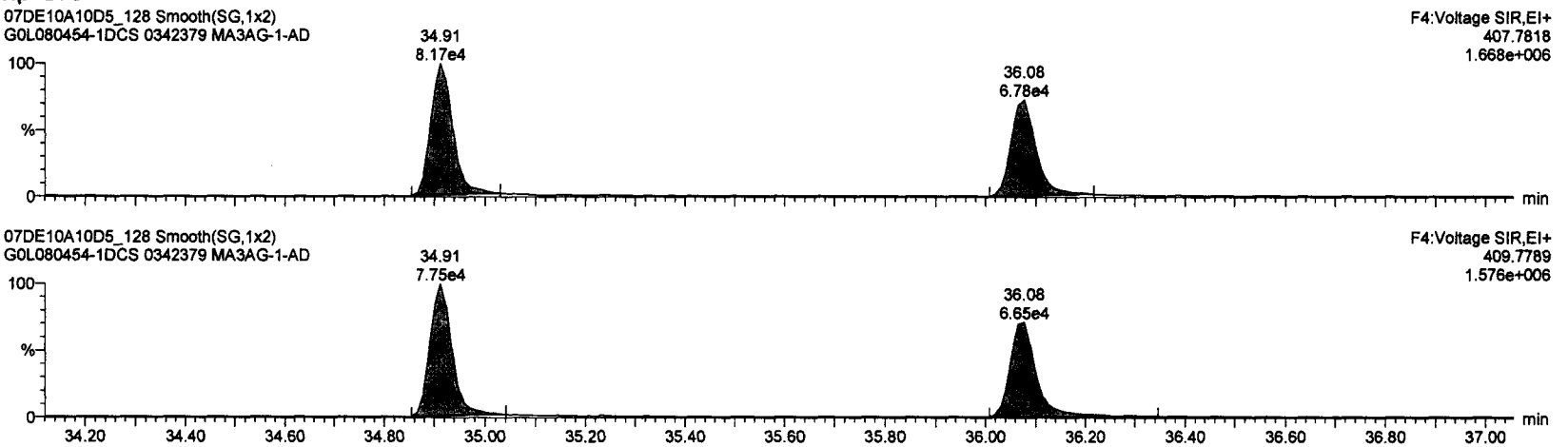
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

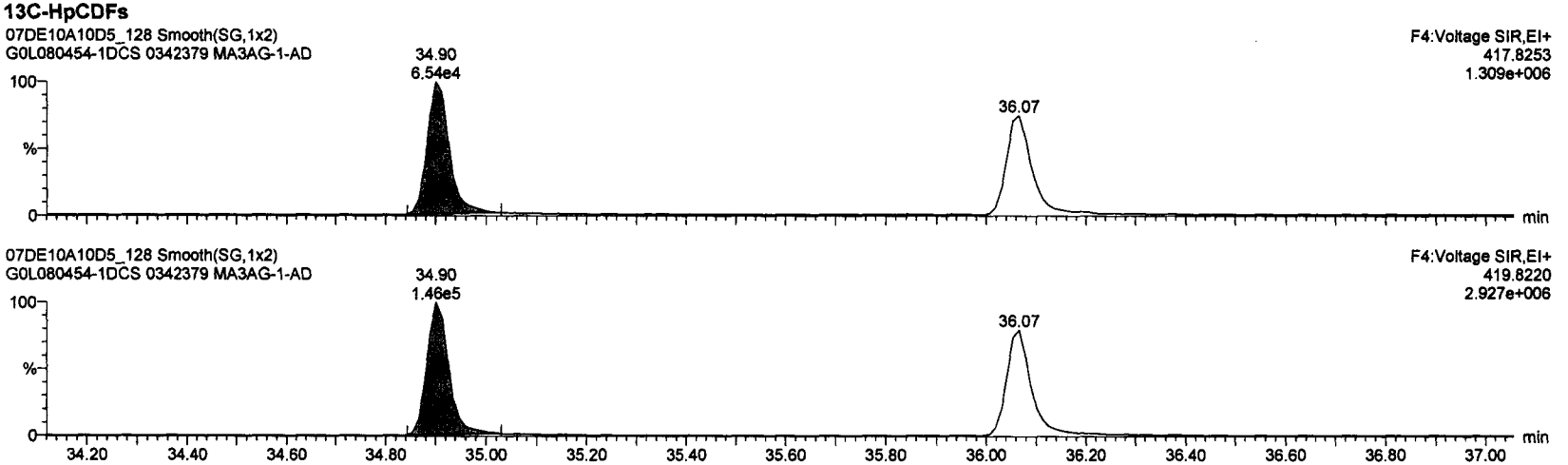
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

HpCDFs



13C-HpCDFs



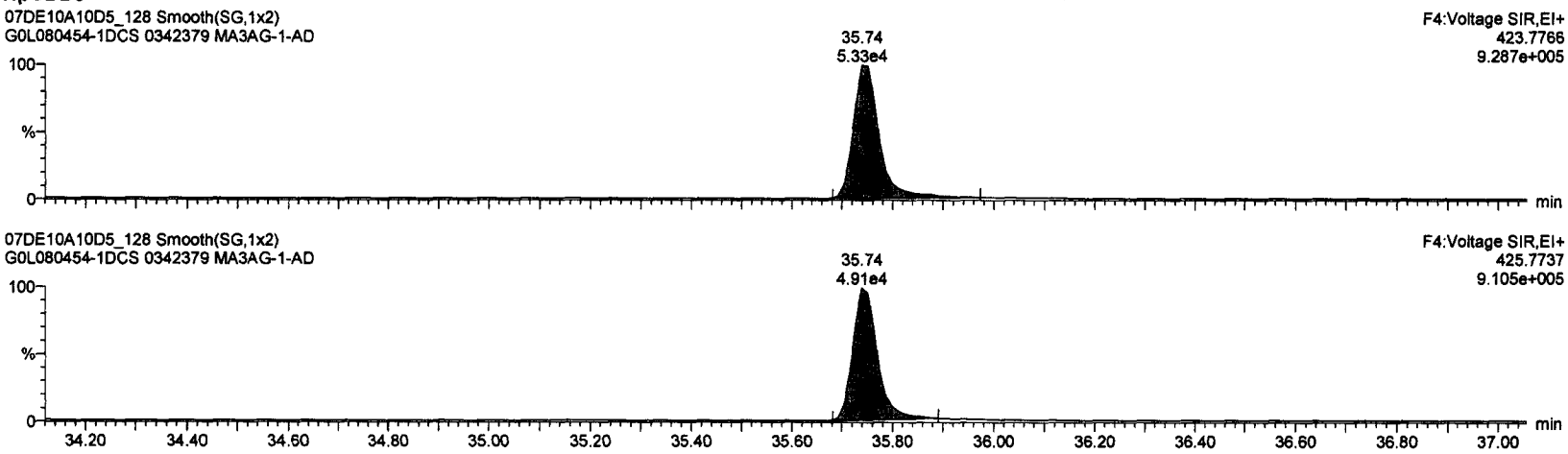
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

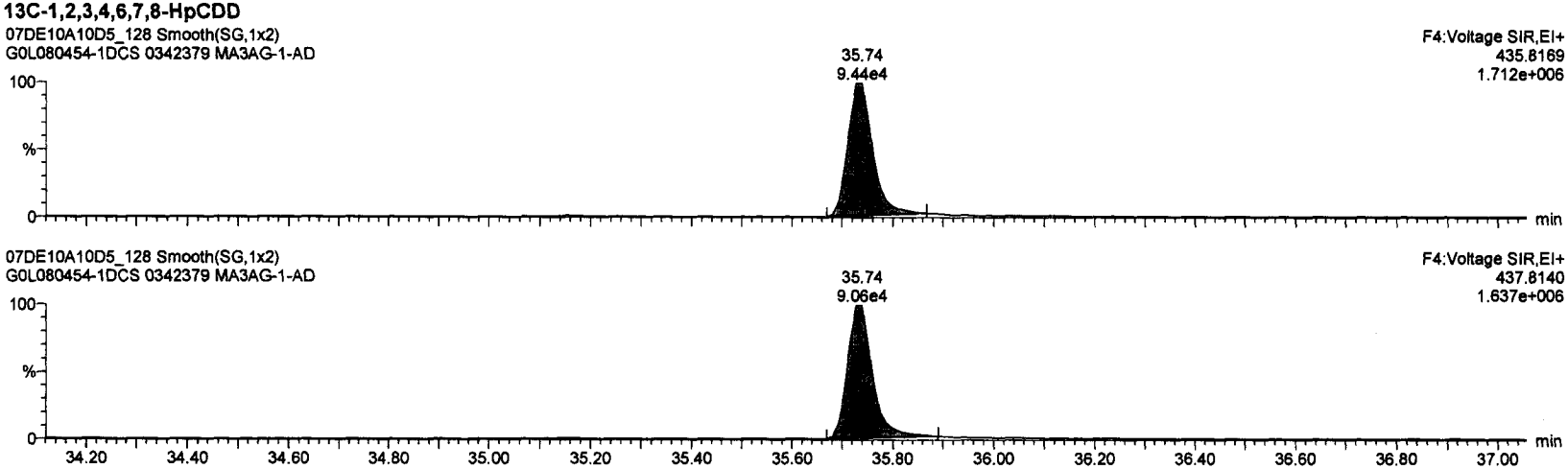
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



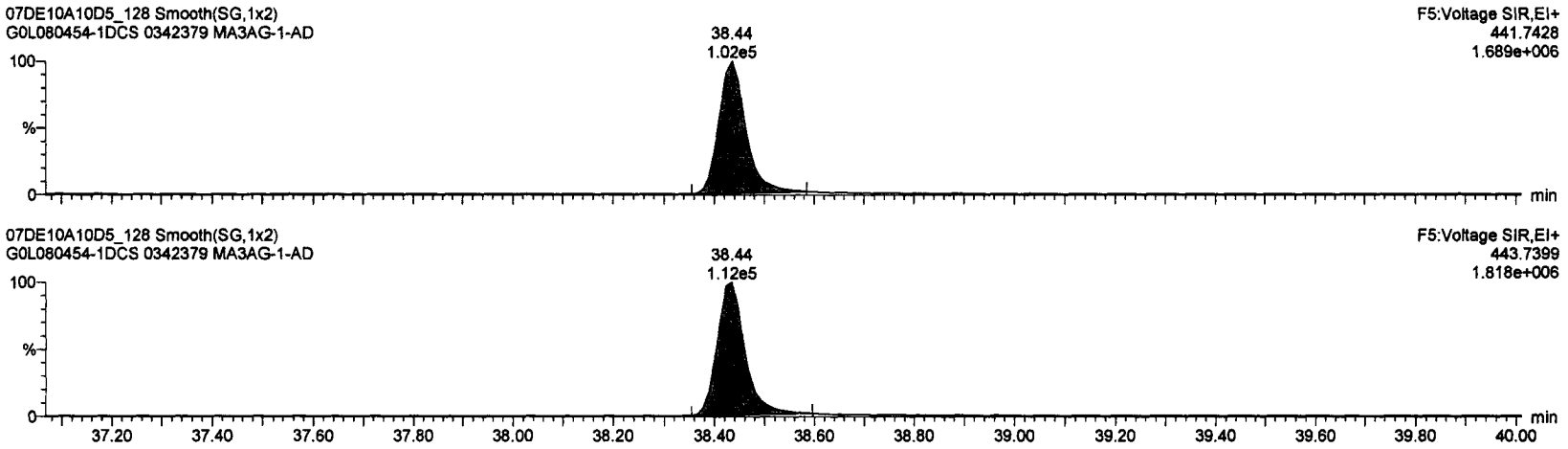
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

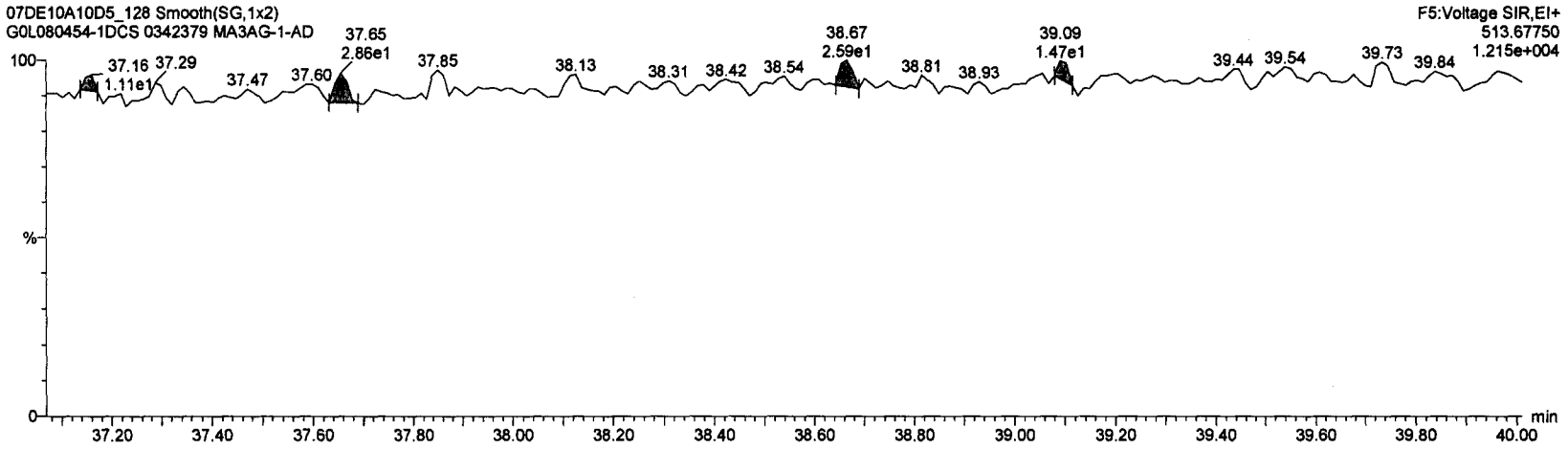
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

OCDFs



OCDF PCDPE



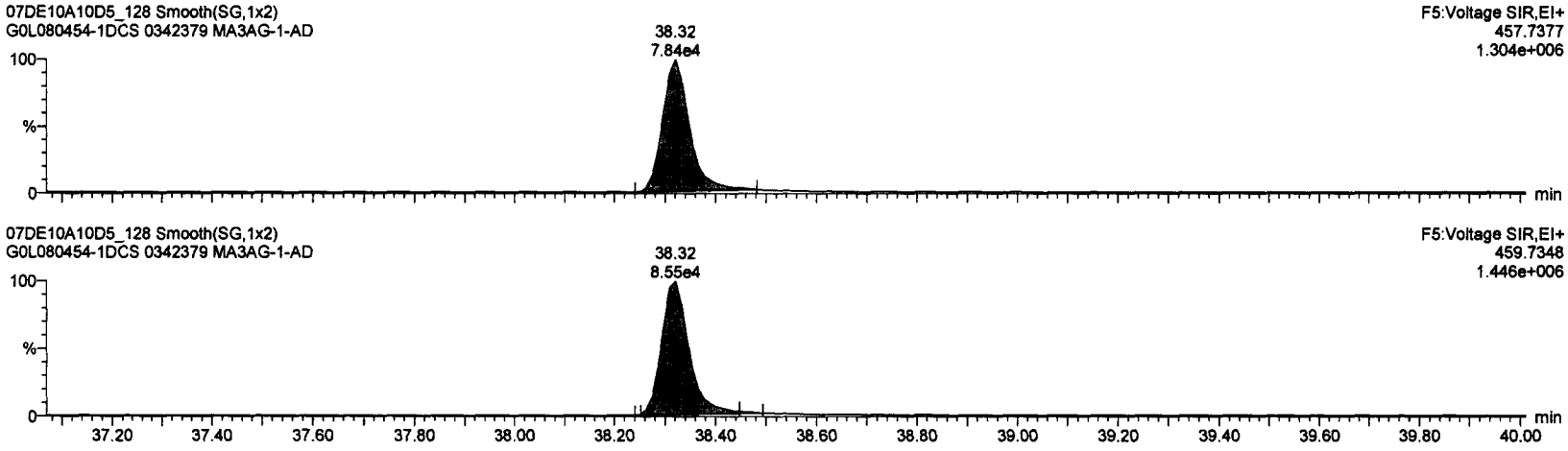
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

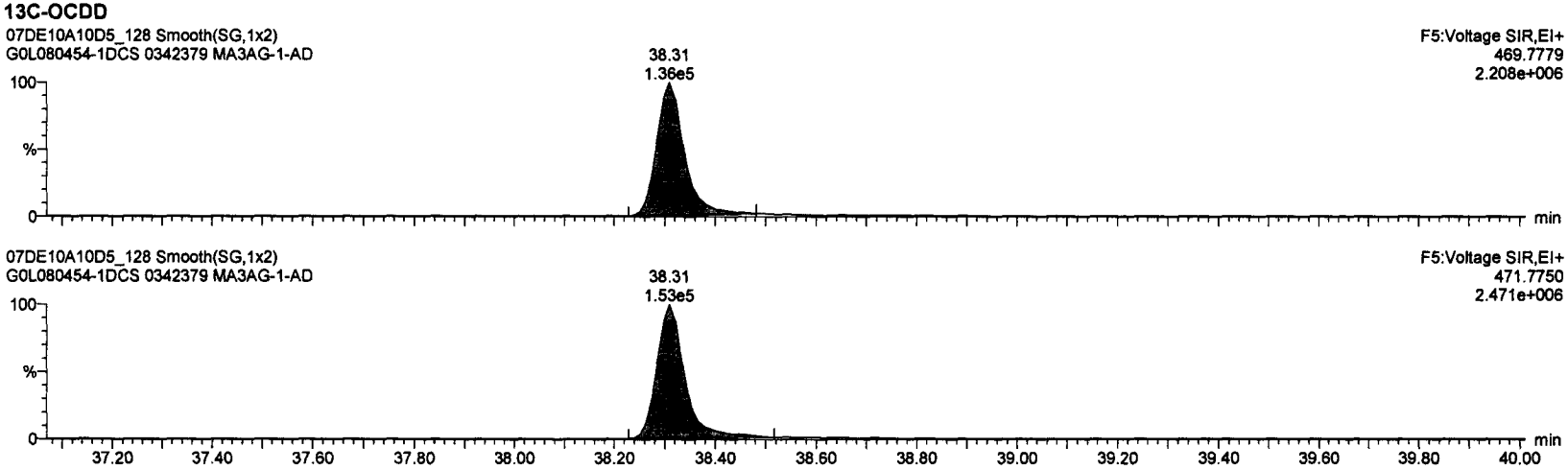
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

OCDD



13C-OCDD



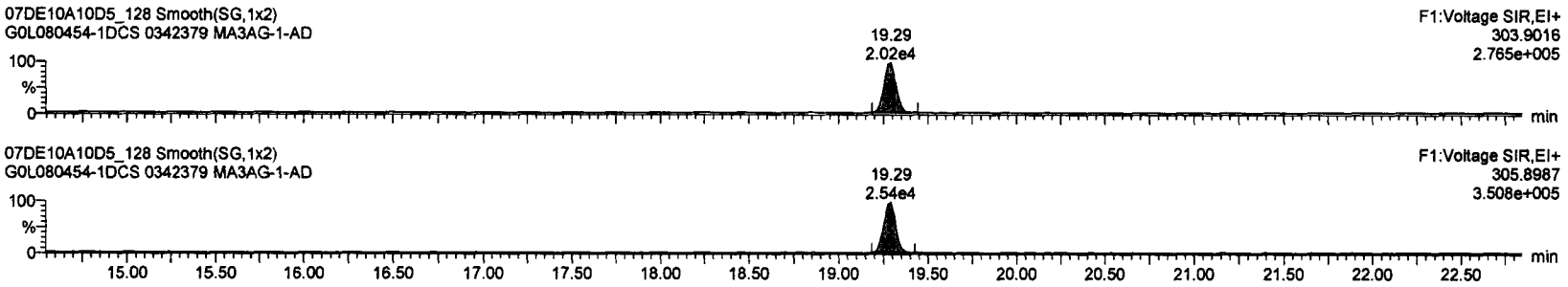
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

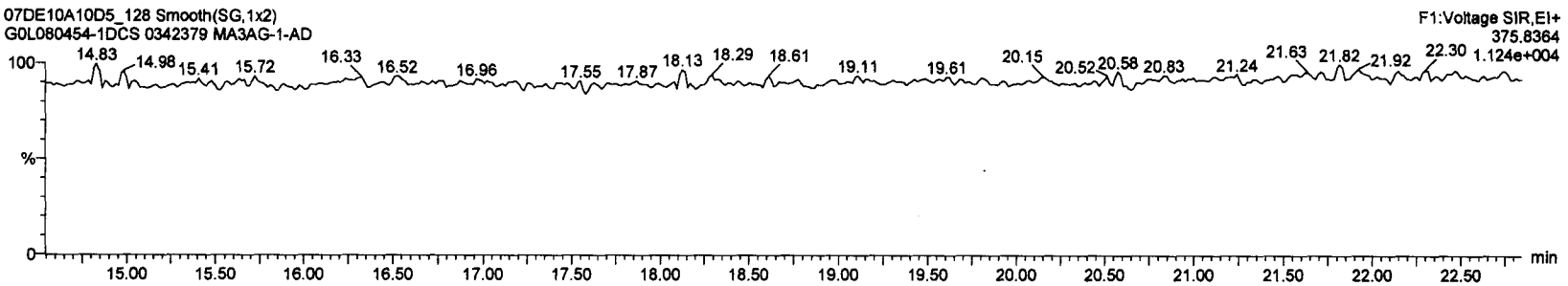
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

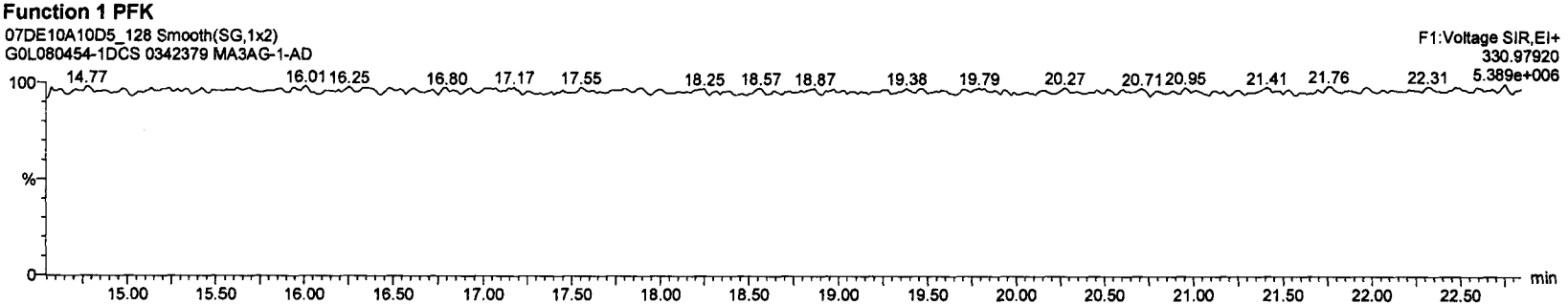
TCDFs



TCDF PCDPE



Function 1 PFK



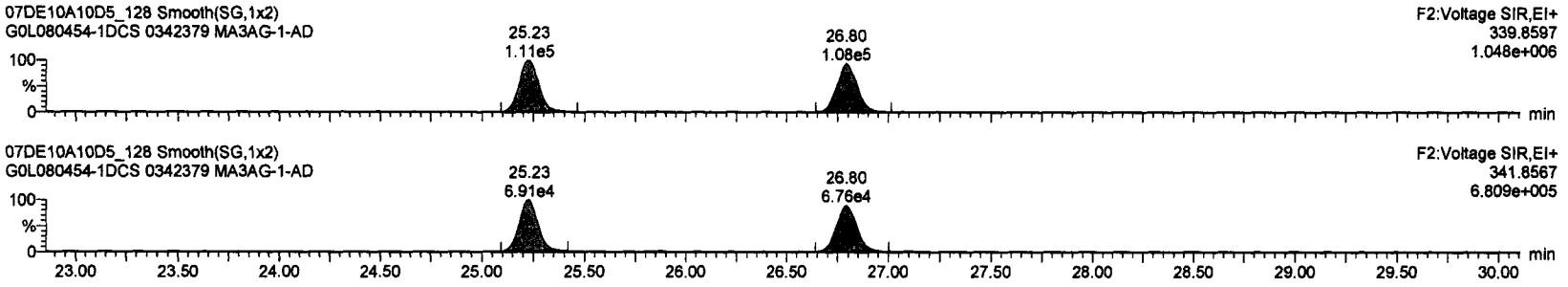
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

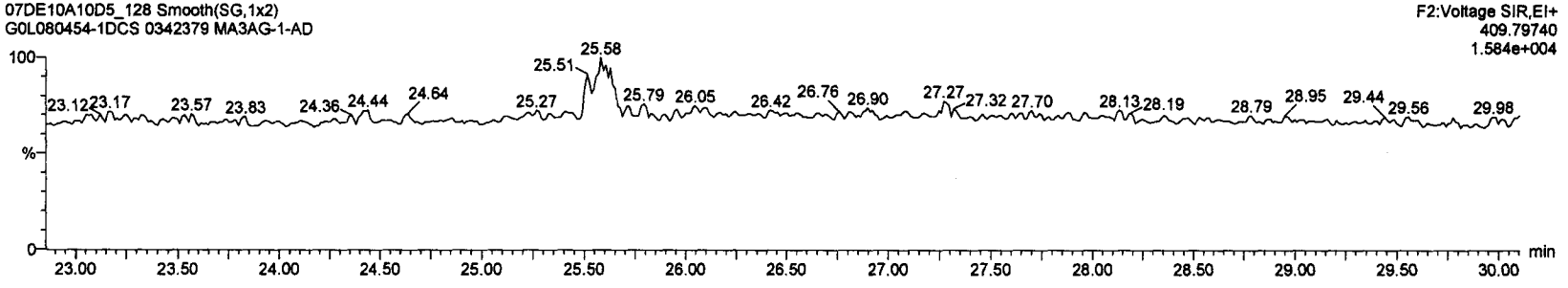
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

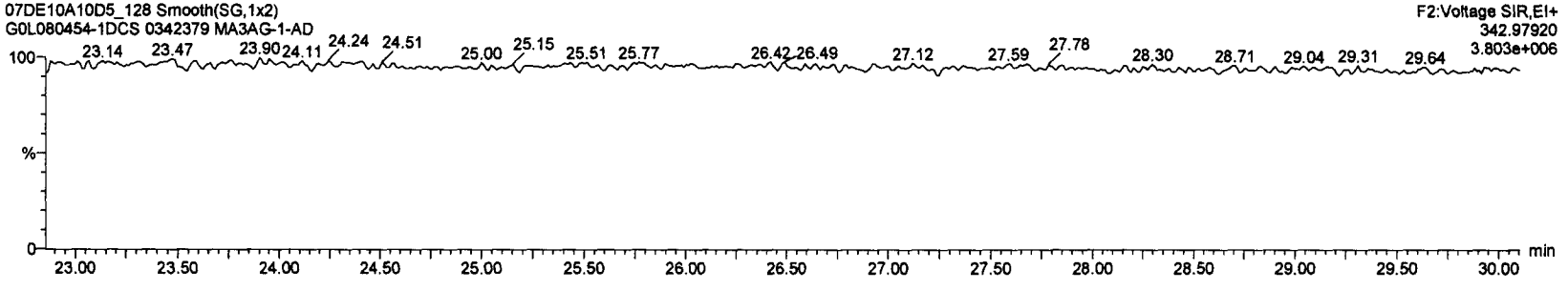
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



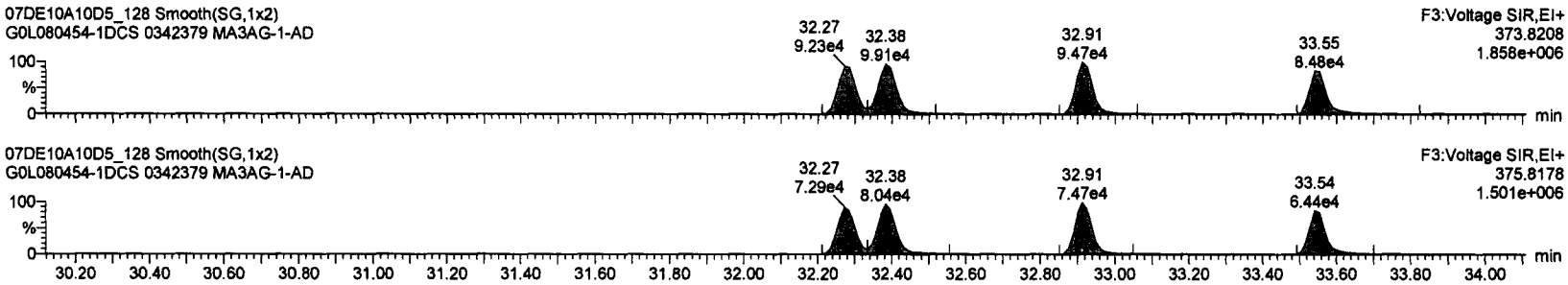
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

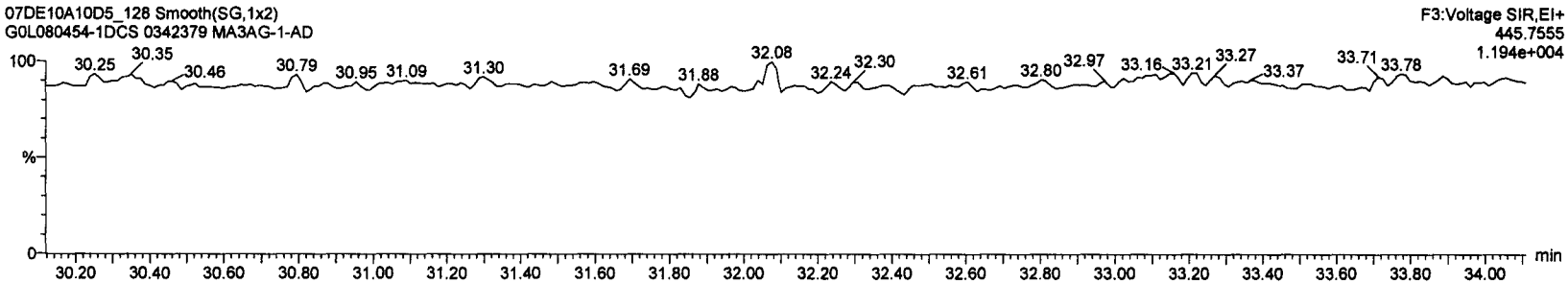
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

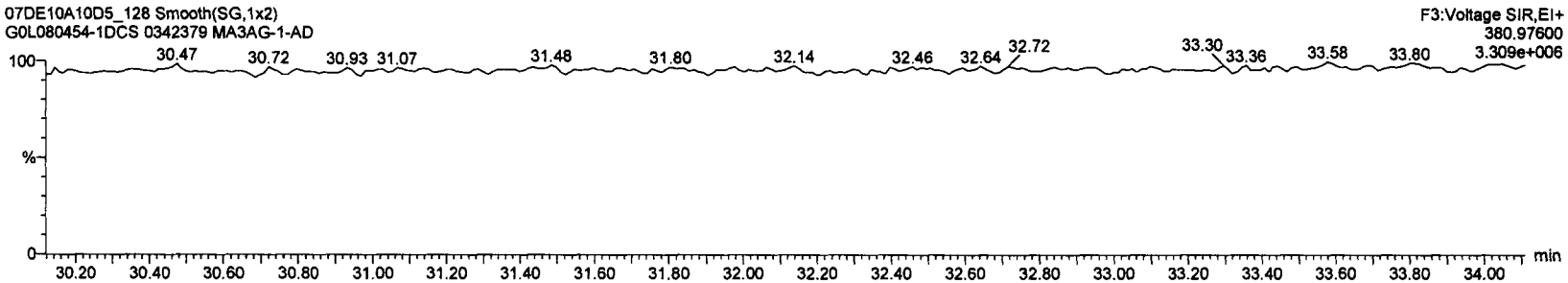
HxCDFs



HxCDF PCDPE



Function 3 PFK



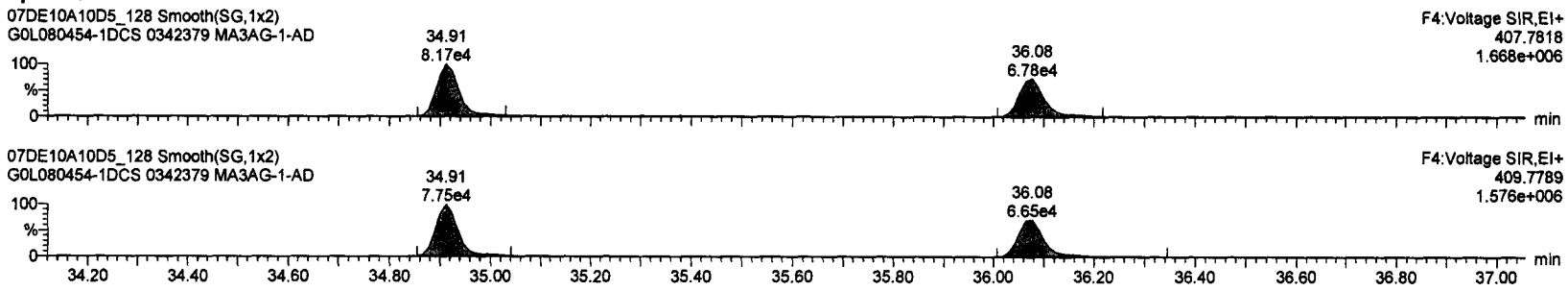
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

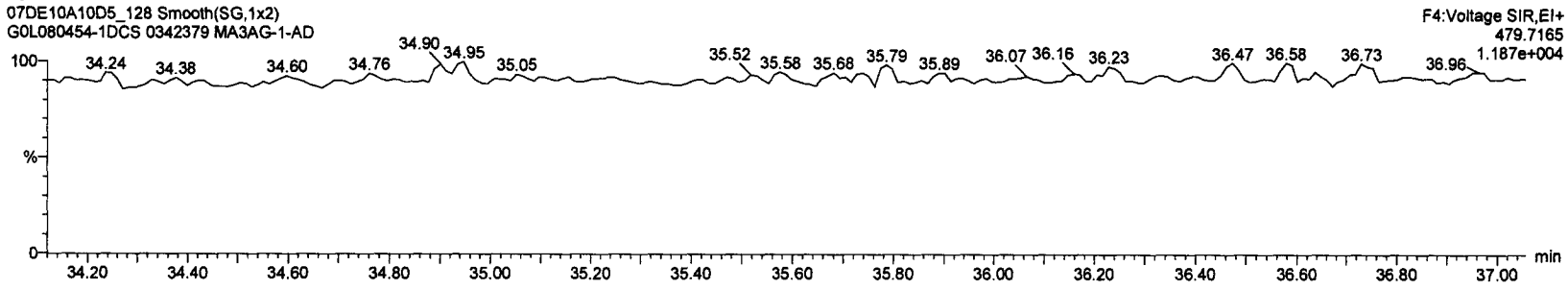
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

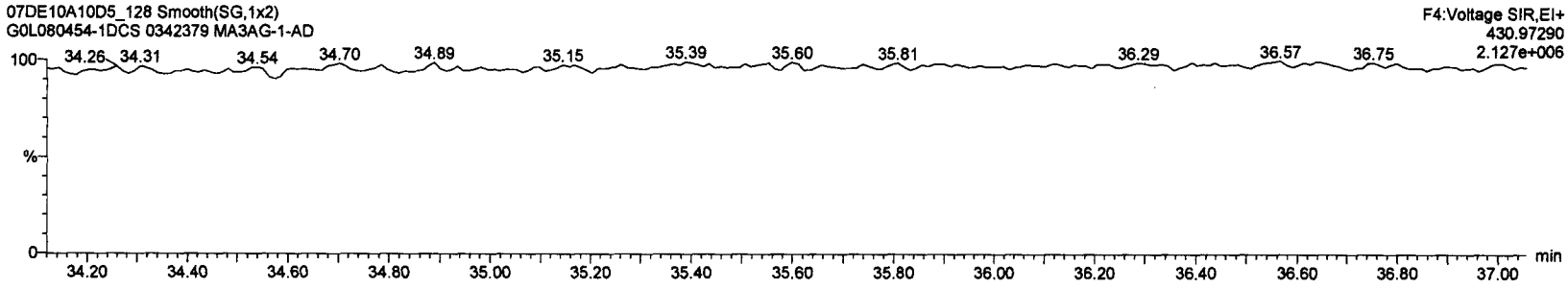
HpCDFs



HpCDF PCDPE



Function 4 PFK



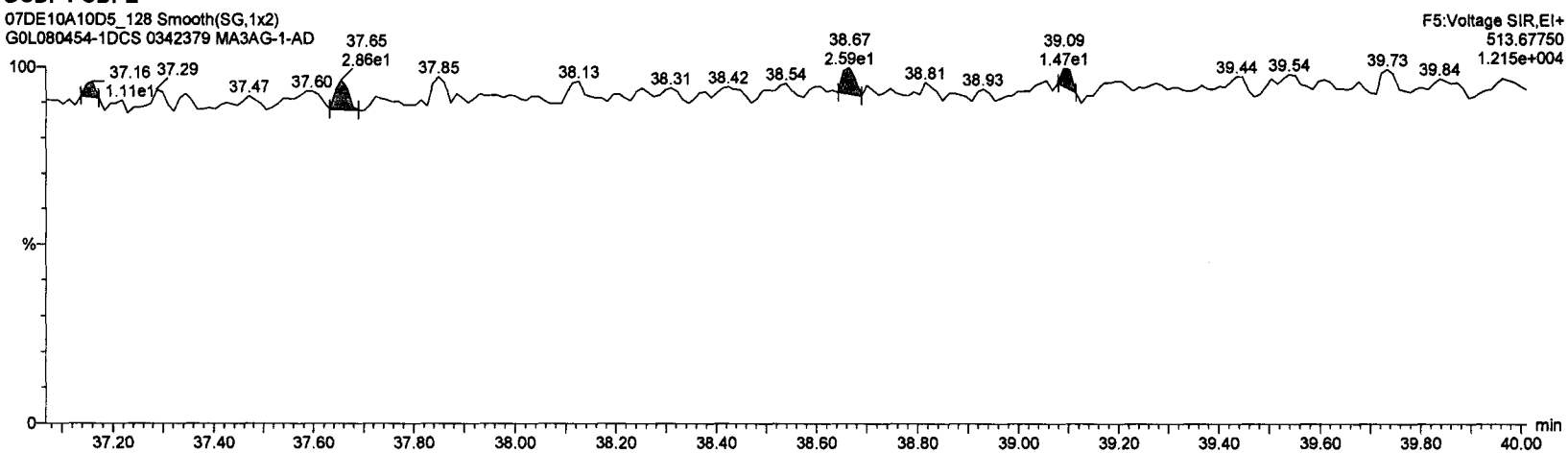
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

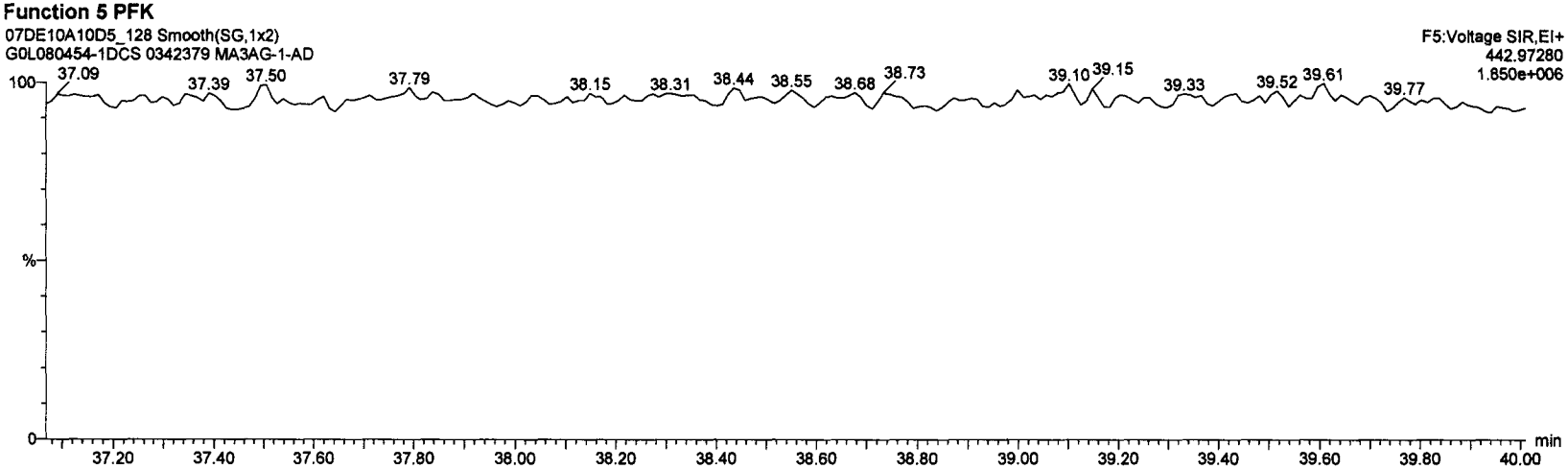
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_128, Date: 11-Dec-2010, Time: 17:42:55, ID: MA3AG-1-AD, Description: G0L080454-1DCS 0342379

OCDF PCDPE



Function 5 PFK



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

(11)

12/15/10 MG

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:42:26 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

#	Name	QuanTrace	Sample Size	RT	Pred RT	RRF	M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Prd Ratio	Ra	Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.50000	19.88	19.87	1.000		376100.22	4000.0000	4000.0000	100.0	5.1921	0.786	0.770		NO	
2																	
3	13C-2,3,7,8-TCDF	315.9419	0.50000	19.26	19.26	1.312		450032.92	3648.0268	3648.0268	91.2	2.9242	0.792	0.770		NO	
4	2,3,7,8-TCDF	303.9016	0.50000	19.29	19.26	0.998		1367.47	12.1830	12.1830	J	1.4869	0.674	0.770		NO	15-Dec-10
5	Total TCDFs	303.9016	0.50000		21.44	0.998			30.1385	26.7313	✓	1.4869					
6																	
7	13C-2,3,7,8-TCDD	331.9368	0.50000	20.09	20.10	0.909		332819.59	3892.4037	3892.4037	97.3	5.7095	0.776	0.770		NO	
8	2,3,7,8-TCDD	319.8965	0.50000		20.11	1.035						1.8921		0.770			
9	Total TCDDs	319.8965	0.50000		22.69	1.035						~~1.0331~~					
10												1.892					
11	37CL-2,3,7,8-TCDD	327.8847	0.50000	20.12	20.09	0.655		86953.99	1594.7939	0.0000	99.7	2.8566					
12																	
13	13C-1,2,3,7,8-PeCDF	351.9000	0.50000	25.21	24.93	1.024		330559.30	3433.9636	3433.9836	85.8	3.5492	1.608	1.550		NO	
14	1,2,3,7,8-PeCDF	339.8597	0.50000	25.21	25.21	1.092		499.85	5.5408	~~1.8731~~		2.8796	6.543	1.550		YES	
15	2,3,4,7,8-PeCDF	339.8597	0.50000	26.76	26.74	1.064		224.96	2.5582	~~1.4941~~		2.9540	3.366	1.550		YES	
16	Total F2 PeCDFs	339.8597	0.50000		34.47	1.078			22.6940	~~16.7344~~		2.9163					
17	Total F1 PeCDFs	339.8597	0.50000		36.56	1.078			3.2047	~~2.1125~~		2.3330					
18										13.3672							
19	13C-1,2,3,7,8-PeCDD	367.8949	0.50000	27.64	27.30	0.734		234111.37	3390.1310	3390.1310	84.8	3.6896	1.545	1.550		NO	
20	1,2,3,7,8-PeCDD	355.8546	0.50000	27.67	27.64	0.960		41.41	0.7369	~~0.3810~~		3.0870	4.676	1.550		YES	
21	Total PeCDDs	355.8546	0.50000		31.10	0.960			1.9293	~~1.3850~~		3.0870					
22																	
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.50000	33.37	33.27	1.000		231712.78	4000.0000	4000.0000	100.0	2.4205	1.263	1.240		NO	
24																	
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.50000	32.26	32.23	1.049		241105.36	3966.1681	3966.1681	99.2	4.9534	0.512	0.510		NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.50000	32.27	32.26	1.313		1378.43	17.4223	17.4223	J	1.8643	1.070	1.240		NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.50000	32.38	32.38	1.438		983.01	11.3410	11.3410	J	1.7017	1.278	1.240		NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.50000	32.90	32.92	1.352		318.94	3.9127	3.1658	JQ	1.8096	0.811	1.240		YES	
29	1,2,3,7,8,9-HxCDF	373.8208	0.50000		33.56	1.198						2.0435		1.240			
30	Total HxCDFs	373.8208	0.50000		0.00	1.325			60.7332	57.0136	✓	1.8467					

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:42:26 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

#	Name	Quan Trace	Sample Size	RT	Pred RT	RRF	M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Prd Ratio	Ra	Flag	Mod Date
31																	
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.50000	33.11	33.10	0.905		214580.80	4095.2569	4095.2569	102.4	2.6760	1.271	1.240	NO		
33	1,2,3,4,7,8-HxCDD	389.8157	0.50000	33.05	33.04	0.982		112.84	2.1430	1.8439	JQ	1.3558	0.910	1.240	YES		15-Dec-10
34	1,2,3,6,7,8-HxCDD	389.8157	0.50000	33.12	33.11	1.094		251.90	4.2913	3.8792	JQ	1.2161	1.478	1.240	YES		15-Dec-10
35	1,2,3,7,8,9-HxCDD	389.8157	0.50000	33.39	33.38	1.058		324.24	5.7137	4.0294	JQ	1.2580	0.640	1.240	YES		15-Dec-10
36	Total HxCDDs	389.8157	0.50000		0.00	1.045			40.3544	34.8574	✓	1.2740					
37																	
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.50000	34.90	34.91	0.954		216378.98	3915.7945	3915.7945	97.9	8.9086	0.446	0.440	NO		
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.50000	34.91	34.90	1.463		2926.39	36.9822	36.9822	J	0.9843	1.076	1.040	NO		
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.50000	36.08	36.07	1.231		817.29	12.2752	11.1722	JQ	1.1698	0.866	1.040	YES		
41	Total HpCDFs	407.7818	0.50000		0.00	1.347			71.0020	66.4558	✓	1.0691					
42																	
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.50000	35.73	35.75	0.848		186827.99	3801.6403	3801.6403	95.0	4.6647	1.066	1.040	NO		
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.50000	35.74	35.73	1.055		2183.85	44.3385	44.3385	J	1.4358	1.158	1.040	NO		
45	Total HpCDDs	423.7766	0.50000		0.08	1.055			98.1171	98.1171	✓	1.4358					
46																	
47	13C-OCDD	469.7779	0.50000	38.31	38.35	0.675		280834.00	7185.9646	7185.9646	89.8	8.2719	0.887	0.890	NO		
48	OCDF	441.7428	0.50000	38.44	38.43	1.486		5211.22	99.8924	99.8924	J	1.9342	0.979	0.890	NO		
49	OCDD	457.7377	0.50000	38.32	38.31	1.146		6484.33	161.1577	161.1577	J	3.4603	0.870	0.890	NO		
50																	
51																	
52	Function 1 PFK	330.97920	1.00000		38.25												
53	Function 2 PFK	342.97920	1.00000		38.25												
54	Function 3 PFK	380.97600	1.00000		38.25												
55	Function 4 PFK	430.97290	1.00000		38.25												
56	Function 5 PFK	442.97280	1.00000		0.00												
57	TCDF PCDPE	375.8364	1.00000		38.25												
58	F1 PeCDF PCDPE	409.79740	1.00000		38.25												
59	F2 PeCDF PCDPE	409.79740	1.00000		38.25												
60	HXCDF PCDPE	445.7555	1.00000		38.25												
61	HPCDF PCDPE	479.7165	1.00000		38.25												
62	OCDF PCDPE	513.67750	1.00000		0.00												

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:42:26 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	5	Total TCDFs	303.9016	17.34	892.072	7.9476	6.7086	0.99766	1.4869	0.580	0.770	YES	19.070
2	4	2,3,7,8-TCDF	303.9016	19.29	1367.475	12.1830	12.1830	0.99766	1.4869	0.674	0.770	NO	20.283
3	5	Total TCDFs	303.9016	18.87	615.648	5.4849	4.7378	0.99766	1.4869	0.602	0.770	YES	13.443
4	5	Total TCDFs	303.9016	18.25	507.689	4.5231	3.1019	0.99766	1.4869	0.425	0.770	YES	11.199

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	1.	Total F2 PeCD...	339.8597	23.64	1300.061	14.5951	13.3672	1.07787	2.9163	1.256	1.550	YES	12.674
2	1.	2,3,4,7,8-PeCDF	339.8597	26.76	224.961	2.5582	1.4941	1.06412	2.9540	3.366	1.550	YES	4.056
3	1.	1,2,3,7,8-PeCDF	339.8597	25.21	499.846	5.5408	1.8731	1.09163	2.8796	6.543	1.550	YES	4.766

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	1.	Total F1 PeCD...	339.8597	21.79	285.459	3.2047	2.1125	1.07787	2.3330	2.868	1.550	YES	4.492

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	2.	Total PeCDDs	355.8546	25.25	67.020	1.1924	1.0540	0.96030	3.0870	1.885	1.550	YES	2.673
2	2.	1,2,3,7,8-PeC...	355.8546	27.67	41.415	0.7369	0.3310	0.96030	3.0870	4.676	1.550	YES	1.610

Total HxCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	3.	Total HxCDFs	373.8208	32.85	261.967	3.2798	3.2798	1.32511	1.8467	1.216	1.240	NO	4.848
2	3.	Total HxCDFs	373.8208	32.69	233.854	2.9278	2.4214	1.32511	1.8467	1.709	1.240	YES	3.773
3	3.	Total HxCDFs	373.8208	32.47	268.435	3.3608	3.3608	1.32511	1.8467	1.404	1.240	NO	2.914
4	2.	1,2,3,6,7,8-Hx...	373.8208	32.38	983.014	11.3410	11.3410	1.43801	1.7017	1.278	1.240	NO	10.011
5	2.	1,2,3,4,7,8-Hx...	373.8208	32.27	1378.428	17.4223	17.4223	1.31260	1.8643	1.070	1.240	NO	14.672
6	3.	Total HxCDFs	373.8208	31.24	980.991	12.2819	12.2819	1.32511	1.8467	1.132	1.240	NO	11.183
7	3.	Total HxCDFs	373.8208	31.04	495.773	6.2070	3.7407	1.32511	1.8467	0.501	1.240	YES	7.006
8	2.	2,3,4,6,7,8-Hx...	373.8208	32.90	318.938	3.9127	3.1658	1.35233	1.8096	0.811	1.240	YES	5.286

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:42:26 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	3.	Total HxCDDs	389.8157	32.27	187.147	3.3399	2.8579	1.04453	1.2740	0.900	1.240	YES	9.082
2	3.	Total HxCDDs	389.8157	31.77	497.342	8.8757	8.8757	1.04453	1.2740	1.152	1.240	NO	18.006
3	3.	1,2,3,7,8,9-Hx...	389.8157	33.39	324.240	5.7137	4.0294	1.05784	1.2580	0.640	1.240	YES	13.559
4	3.	1,2,3,6,7,8-Hx...	389.8157	33.12	251.903	4.2913	3.8792	1.09425	1.2161	1.478	1.240	YES	11.373
5	3.	1,2,3,4,7,8-Hx...	389.8157	33.05	112.837	2.1430	1.8439	0.98150	1.3558	0.910	1.240	YES	5.631
6	3.	Total HxCDDs	389.8157	32.53	896.031	15.9908	13.3713	1.04453	1.2740	1.679	1.240	YES	28.224

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,7,8,9-H...	407.7818	36.08	817.288	12.2752	11.1722	1.23081	1.1698	0.866	1.040	YES	36.055
2	4.	Total HpCDFs	407.7818	35.23	898.288	12.3298	8.8867	1.34680	1.0691	0.581	1.040	YES	51.592
3	4.	Total HpCDFs	407.7818	35.10	685.916	9.4148	9.4148	1.34680	1.0691	1.162	1.040	NO	29.611
4	3.	1,2,3,4,6,7,8-H...	407.7818	34.91	2926.389	36.9822	36.9822	1.46280	0.9843	1.076	1.040	NO	137.163

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,6,7,8-H...	423.7766	35.74	2183.852	44.3385	44.3385	1.05453	1.4358	1.158	1.040	NO	116.424
2	4.	Total HpCDDs	423.7766	35.16	2648.810	53.7785	53.7785	1.05453	1.4358	1.097	1.040	NO	162.840

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M.	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl.	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.87	1.00000	376100.22	4000.0000	4000.0000	100.0	5.19215	0.79	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	450032.92	3648.0268	3648.0268	91.2	2.92425	0.79	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.29	19.26	0.99766	903.94	8.0533	5.5695		1.48693	1.56	YES	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		28.0331	19.9378		1.48693			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	332819.59	3892.4037	3892.4037	97.3	5.70952	0.78	NO	
8	2,3,7,8-TCDD	319.8965	0.500		20.11	1.03464					1.89215		NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		1.9329	1.0163		1.89215			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.12	20.09	0.65529	86953.99	1594.7939	0.0000	99.7	2.85662			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.21	24.93	1.02378	330559.30	3433.9836	3433.9836	85.8	3.54918	1.61	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	25.21	25.21	1.09163	499.85	5.5408	1.8731		2.87956	6.54	YES	
15	2,3,4,7,8-PeCDF	339.8597	0.500	26.76	26.74	1.06412	224.96	2.5582	1.4941		2.95402	3.37	YES	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		34.0873	22.3940		2.91631			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		3.7274	2.4473		2.33304			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.63	27.30	0.73445	234111.37	3390.1310	3390.1310	84.8	3.68964	1.55	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500	27.67	27.63	0.96030	54.76	0.9743	0.9743		3.08695	1.65	NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		2.4117	2.2561		3.08695			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	231712.78	4000.0000	4000.0000	100.0	2.42052	1.26	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	241105.36	3966.1681	3966.1681	99.2	4.95344	0.51	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.27	32.26	1.31260	1378.43	17.4223	17.4223		1.86433	1.07	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.38	32.38	1.43801	983.01	11.3410	11.3410		1.70174	1.28	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.90	32.92	1.35233	318.94	3.9127	3.1658		1.80956	0.81	YES	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500		33.56	1.19752					2.04350		NO	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		60.7332	57.0136		1.84673			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	214580.80	4095.2569	4095.2569	102.4	2.67601	1.27	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500	33.12	33.04	0.98150	252.70	4.7993	3.8689		1.35582	1.78	YES	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500	33.39	33.11	1.09425	268.89	4.5807	3.1328		1.21613	0.61	YES	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500		33.38	1.05784					1.25798		NO	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		37.5864	32.1066		1.27401			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	216378.98	3915.7945	3915.7945	97.9	8.90864	0.45	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	2926.39	36.9822	36.9822		0.98428	1.08	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.08	36.07	1.23081	817.29	12.2752	11.1722		1.16981	0.87	YES	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		71.0020	66.4558		1.06906			
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.73	35.75	0.84836	186827.99	3801.6403	3801.6403	95.0	4.66473	1.07	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.74	35.73	1.05453	2183.85	44.3385	44.3385		1.43582	1.16	NO	
45	Total HpCDDs	423.7766	0.500		0.08	1.05453		98.1171	98.1171		1.43582			
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	280834.00	7185.9646	7185.9646	89.8	8.27189	0.89	NO	
48	OCDF	441.7428	0.500	38.44	38.43	1.48610	5211.22	99.8924	99.8924		1.93423	0.98	NO	
49	OCDD	457.7377	0.500	38.32	38.31	1.14618	6484.33	161.1577	161.1577		3.46028	0.87	NO	
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379, Task:

Total TCDFs

	#	Name	Trace	RT	Abd Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	5	Total TCDFs	303.9016	17.34	790.453	7.0422	4.6275	0.99766	1.4869	0.400	0.770	YES	19.070
2	5	Total TCDFs	303.9016	16.46	219.957	1.9596	~~1.0391~~	0.99766	1.4869	0.300	0.770	YES	6.854
3	4	2,3,7,8-TCDF	303.9016	19.29	903.938	8.0533	5.5695	0.99766	1.4869	1.559	0.770	YES	19.266
4	5	Total TCDFs	303.9016	18.87	615.648	5.4849	4.7378	0.99766	1.4869	0.602	0.770	YES	13.443
5	5	Total TCDFs	303.9016	18.55	108.880	0.9700	~~0.9020~~	0.99766	1.4869	0.630	0.770	YES	4.186
6	5	Total TCDFs	303.9016	18.25	507.689	4.5231	3.1019	0.99766	1.4869	0.425	0.770	YES	11.199

Total TCDDs

	#	Name	Trace	RT	Abd Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	9	Total TCDDs	319.8965	18.81	85.098	0.9885	0.7027	1.03464	1.8921	1.490	0.770	YES	2.808
2	9	Total TCDDs	319.8965	17.85	81.297	0.9444	0.3136	1.03464	1.8921	0.169	0.770	YES	3.662

Total F2 PeCDFs

	#	Name	Trace	RT	Abd Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	16	Total F2 PeCD...	339.8597	24.69	127.346	1.4296	1.2311	1.07787	2.9163	1.961	1.550	YES	2.484
2	16	Total F2 PeCD...	339.8597	24.60	242.478	2.7222	1.4903	1.07787	2.9163	0.499	1.550	YES	3.928
3	16	Total F2 PeCD...	339.8597	24.22	96.600	1.0845	1.0138	1.07787	2.9163	1.316	1.550	YES	2.853
4	16	Total F2 PeCD...	339.8597	24.18	120.299	1.3505	0.9124	1.07787	2.9163	0.697	1.550	YES	3.616
5	16	Total F2 PeCD...	339.8597	23.87	39.469	0.4431	~~0.3066~~	1.07787	2.9163	0.726	1.550	YES	2.127
6	16	Total F2 PeCD...	339.8597	23.64	994.042	11.1596	7.7152	1.07787	2.9163	0.725	1.550	YES	12.674
7	16	Total F2 PeCD...	339.8597	23.39	186.747	2.0965	~~1.5906~~	1.07787	2.9163	0.862	1.550	YES	3.536
8	16	Total F2 PeCD...	339.8597	27.23	90.883	1.0203	0.7324	1.07787	2.9163	2.552	1.550	YES	1.914
9	15	2,3,4,7,8-PeCDF	339.8597	26.76	224.961	2.5582	1.4941	1.06412	2.9540	3.366	1.550	YES	4.056
10	16	Total F2 PeCD...	339.8597	25.87	131.537	1.4767	1.3524	1.07787	2.9163	1.784	1.550	YES	3.357
11	16	Total F2 PeCD...	339.8597	25.84	141.966	1.5938	1.5938	1.07787	2.9163	1.621	1.550	NO	3.255
12	16	Total F2 PeCD...	339.8597	25.76	24.871	0.2792	0.2533	1.07787	2.9163	1.229	1.550	YES	1.554
13	14	1,2,3,7,8-PeCDF	339.8597	25.21	499.846	5.5408	1.8731	1.09163	2.8796	6.543	1.550	YES	4.766
14	16	Total F2 PeCD...	339.8597	25.05	118.684	1.3324	~~0.8289~~	1.07787	2.9163	0.608	1.550	YES	3.435

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379, Task:

Total F1 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	17	Total F1 PeCD...	339.8597	21.79	285.459	3.2047	~~2.1125~~	1.07787	2.3330	2.868	1.550	YES	4.492
2	17	Total F1 PeCD...	339.8597	16.51	46.563	0.5227	~~0.3347~~	1.07787	2.3330	0.637	1.550	YES	1.911

Total PeCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	21	Total PeCDDs	355.8546	25.25	80.790	1.4374	1.2818	0.96030	3.0870	1.183	1.550	YES	4.787
2	20	1,2,3,7,8-PeC...	355.8546	27.67	54.760	0.9743	0.9743	0.96030	3.0870	1.653	1.550	NO	3.270

Total HxCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	30	Total HxCDFs	373.8208	32.85	261.967	3.2798	3.2798	1.32511	1.8467	1.216	1.240	NO	4.848
2	30	Total HxCDFs	373.8208	32.69	233.854	2.9278	2.4214	1.32511	1.8467	1.708	1.240	YES	3.773
3	30	Total HxCDFs	373.8208	32.47	268.435	3.3608	3.3608	1.32511	1.8467	1.404	1.240	NO	2.914
4	27	1,2,3,6,7,8-Hx...	373.8208	32.38	983.014	11.3410	11.3410	1.43801	1.7017	1.278	1.240	NO	10.011
5	26	1,2,3,4,7,8-Hx...	373.8208	32.27	1378.428	17.4223	17.4223	1.31260	1.8643	1.070	1.240	NO	14.672
6	30	Total HxCDFs	373.8208	31.24	980.991	12.2819	12.2819	1.32511	1.8467	1.132	1.240	NO	11.183
7	30	Total HxCDFs	373.8208	31.04	495.773	6.2070	3.7407	1.32511	1.8467	0.501	1.240	YES	7.006
8	28	2,3,4,6,7,8-Hx...	373.8208	32.90	318.938	3.9127	3.1658	1.35233	1.8096	0.811	1.240	YES	5.286

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	36	Total HxCDDs	389.8157	32.27	187.147	3.3399	2.8579	1.04453	1.2740	0.900	1.240	YES	9.082
2	36	Total HxCDDs	389.8157	31.77	497.342	8.8757	8.8757	1.04453	1.2740	1.152	1.240	NO	18.006
3	34	1,2,3,6,7,8-Hx...	389.8157	33.39	268.893	4.5807	3.1328	1.09425	1.2161	0.609	1.240	YES	12.423
4	33	1,2,3,4,7,8-Hx...	389.8157	33.12	252.697	4.7993	3.8689	0.98150	1.3558	1.779	1.240	YES	10.798
5	36	Total HxCDDs	389.8157	32.53	896.031	15.9908	13.3713	1.04453	1.2740	1.679	1.240	YES	28.224

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379, Task:

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
	40	1,2,3,4,7,8,9-H...	407.7818	36.08	817.288	12.2752	11.1722	1.23081	1.1698	0.866	1.040	YES	36.055
	41	Total HpCDFs	407.7818	35.23	898.288	12.3298	8.8867	1.34680	1.0691	0.581	1.040	YES	51.592
	41	Total HpCDFs	407.7818	35.10	685.916	9.4148	9.4148	1.34680	1.0691	1.162	1.040	NO	29.611
	39	1,2,3,4,6,7,8-H...	407.7818	34.91	2926.389	36.9822	36.9822	1.46280	0.9843	1.076	1.040	NO	137.163

Total HpCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
	44	1,2,3,4,6,7,8-H...	423.7766	35.74	2183.852	44.3385	44.3385	1.05453	1.4358	1.158	1.040	NO	116.424
	45	Total HpCDDs	423.7766	35.16	2648.810	53.7785	53.7785	1.05453	1.4358	1.097	1.040	NO	162.840

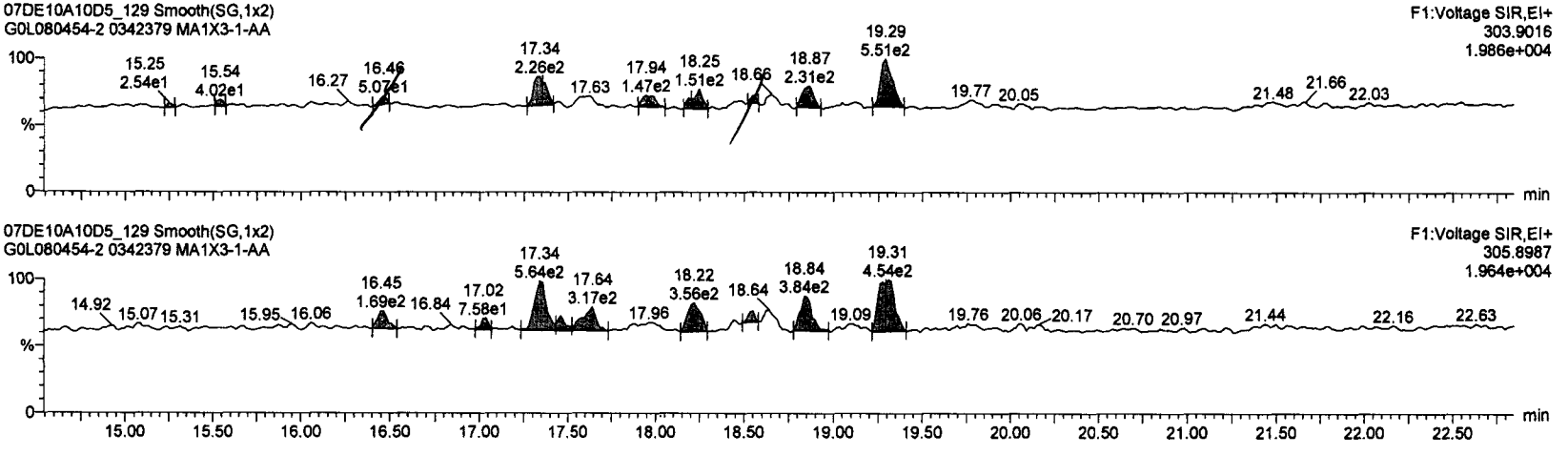
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

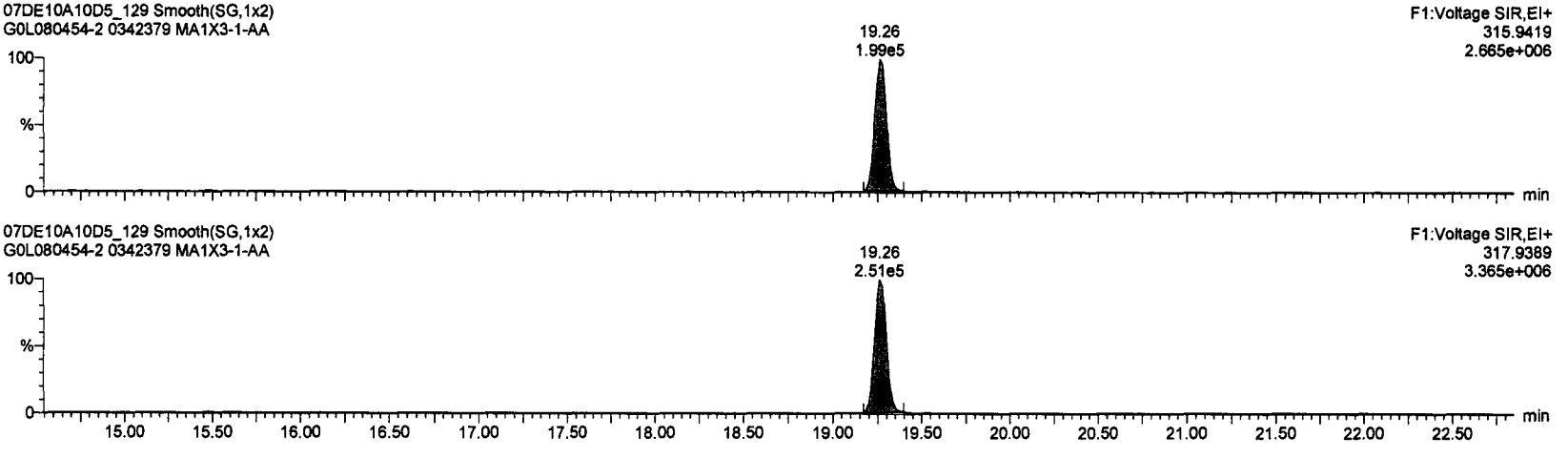
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

TCDFs



13C-TCDF



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time

Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35

Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Compound Name: 2,3,7,8-TCDF, Chrom. Trace: 303.9016

Sample Name: 07DE10A10D5_129

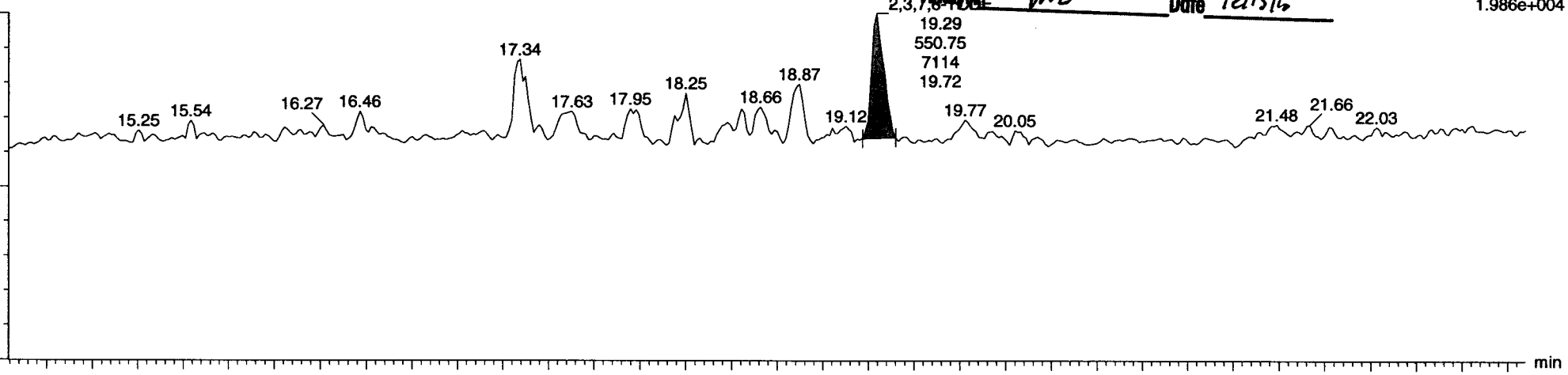
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MG Date 12/15/10

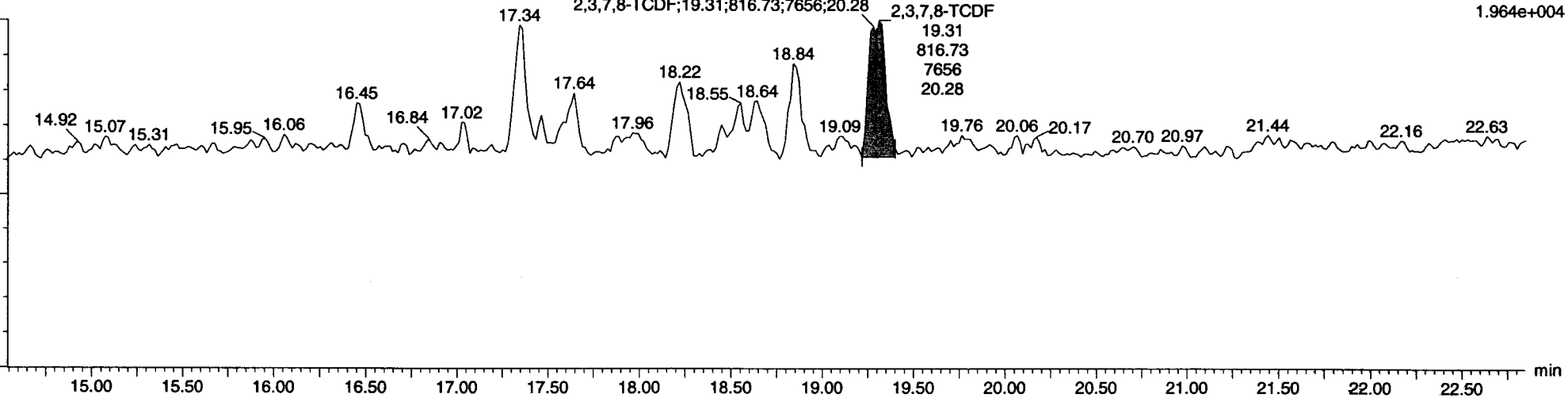
07DE10A10D5_129 Smooth(SG,1x2)
G0L080454-2 0342379 MA1X3-1-AA

F1:Voltage SIR,EI+
303.9016
1.986e+004



07DE10A10D5_129 Smooth(SG,1x2)
G0L080454-2 0342379 MA1X3-1-AA

F1:Voltage SIR,EI+
305.8987
1.964e+004



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

Compound Name: Total TCDFs, Chrom. Trace: 303.9016

Sample Name: 07DE10A10D5_129

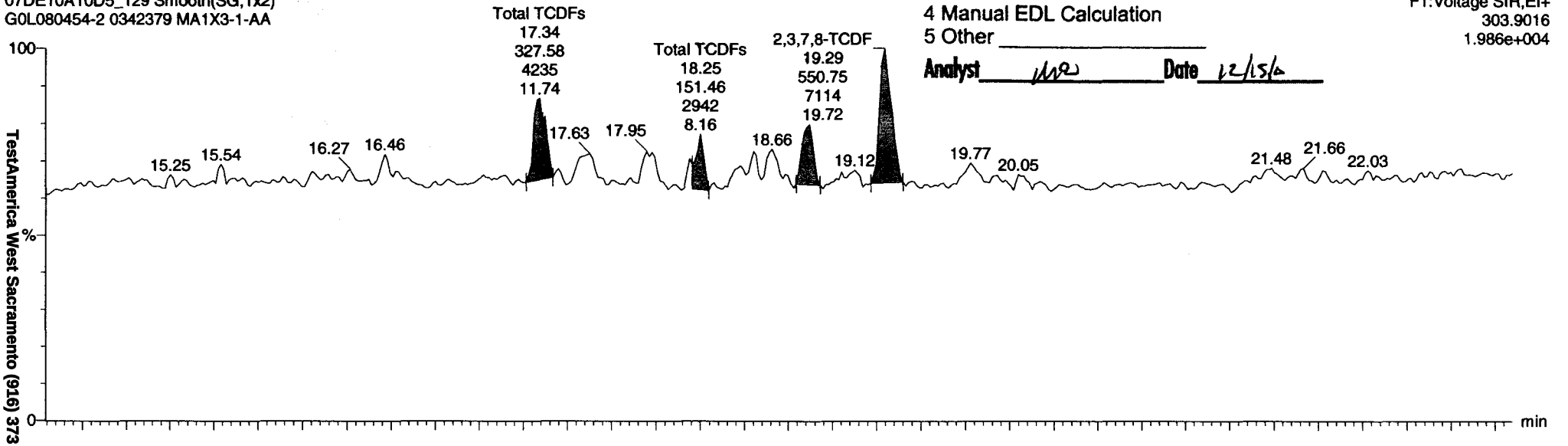
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst _____ Date 12/15/10

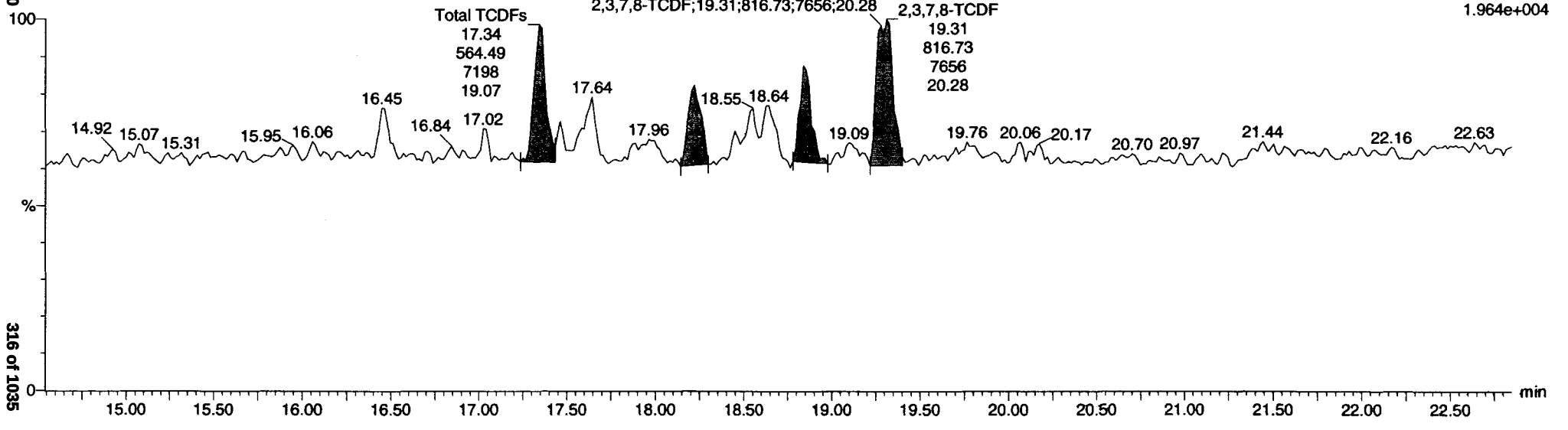
07DE10A10D5_129 Smooth(SG,1x2)
G0L080454-2 0342379 MA1X3-1-AA

F1:Voltage SIR,EI+
303.9016
1.986e+004



07DE10A10D5_129 Smooth(SG,1x2)
G0L080454-2 0342379 MA1X3-1-AA

F1:Voltage SIR,EI+
305.8987
1.964e+004



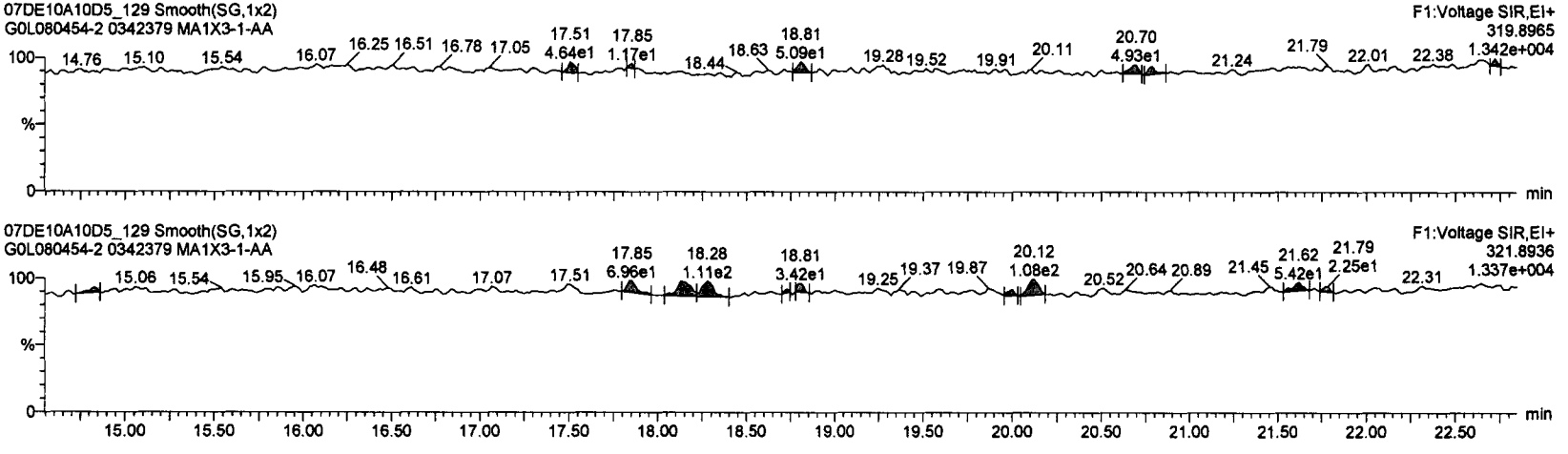
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

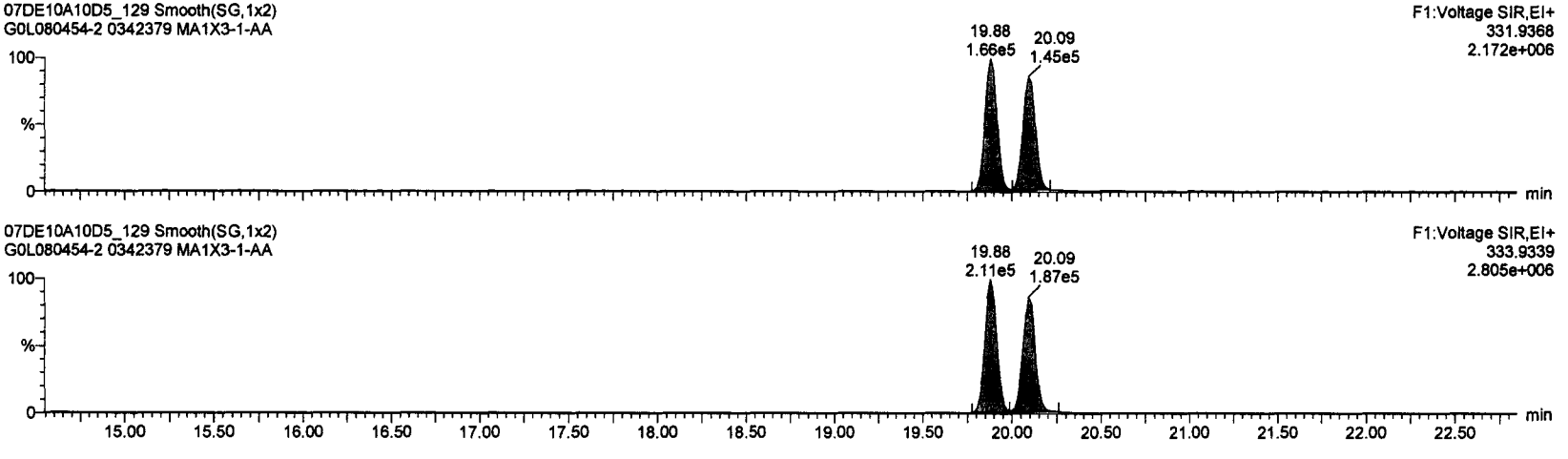
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

TCDDs



13C-TCDDs



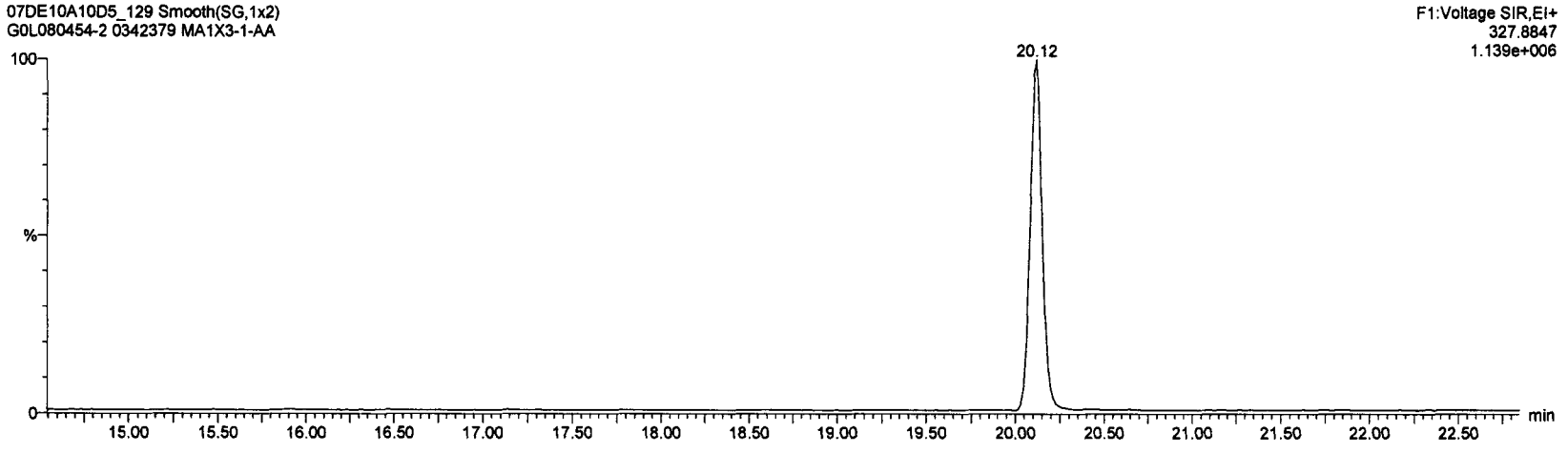
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

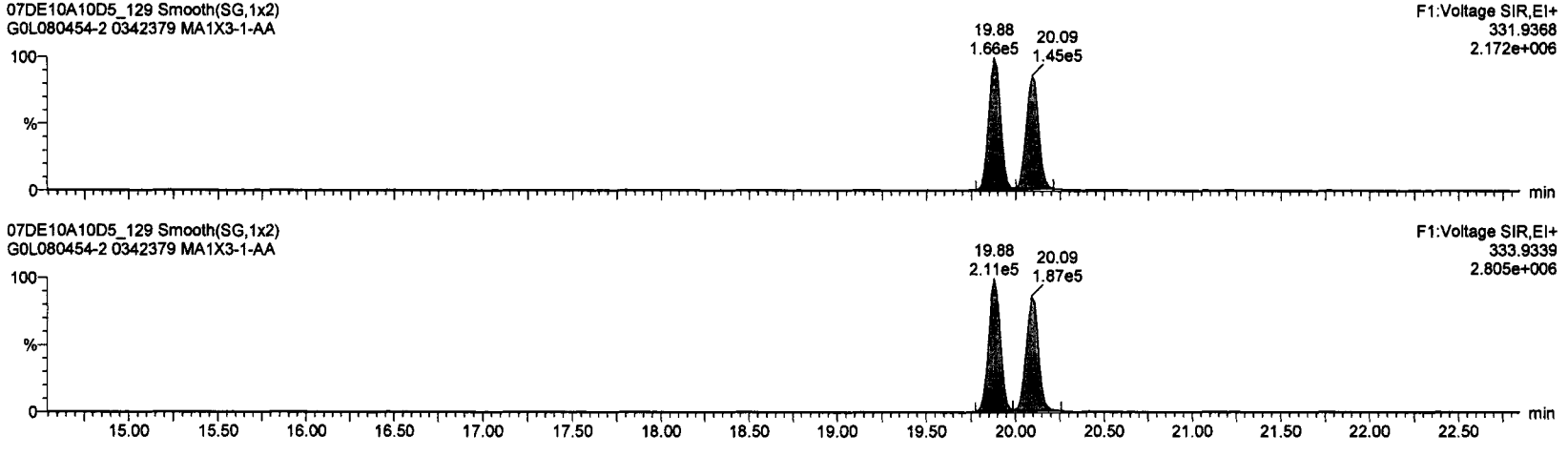
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

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



13C-TCDDs



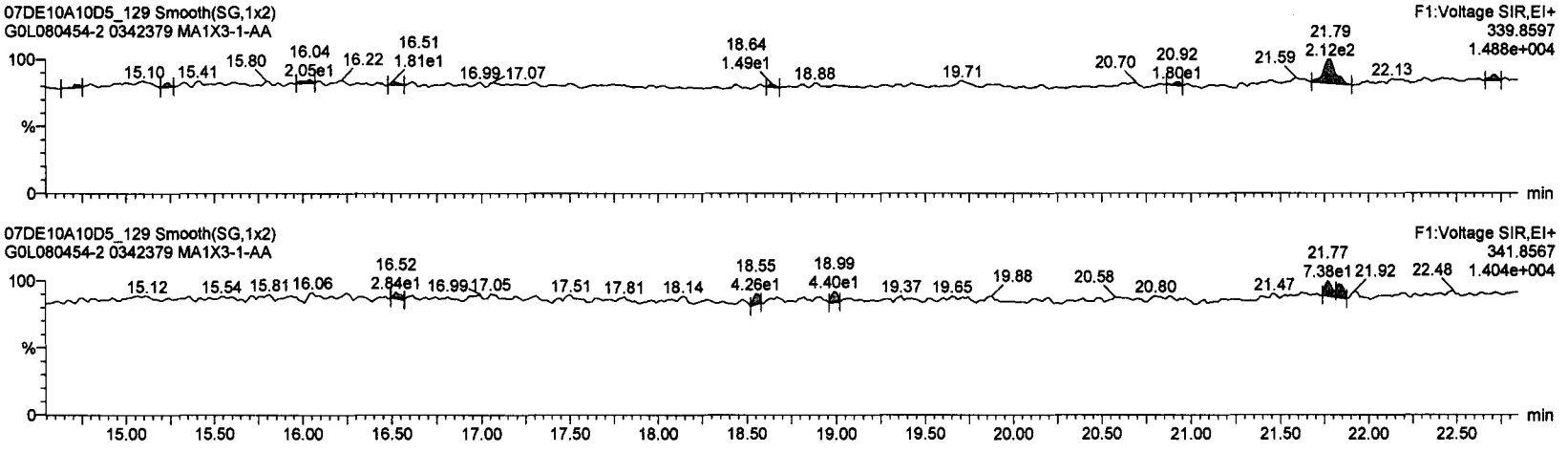
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

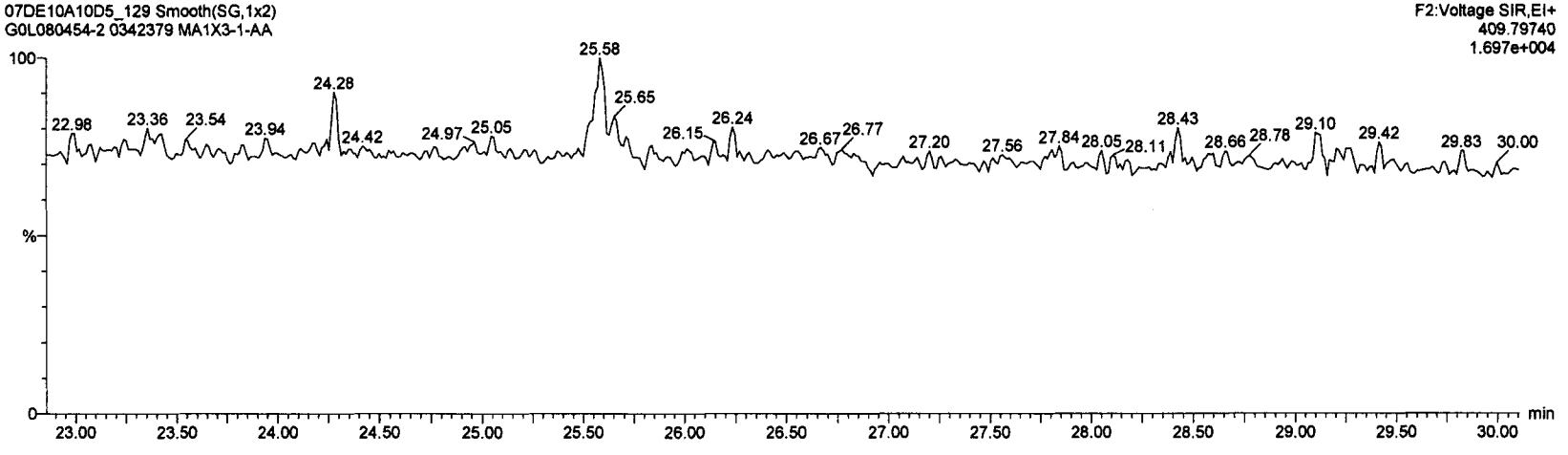
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

F1 PeCDFs



F1 PeCDF PCDPE



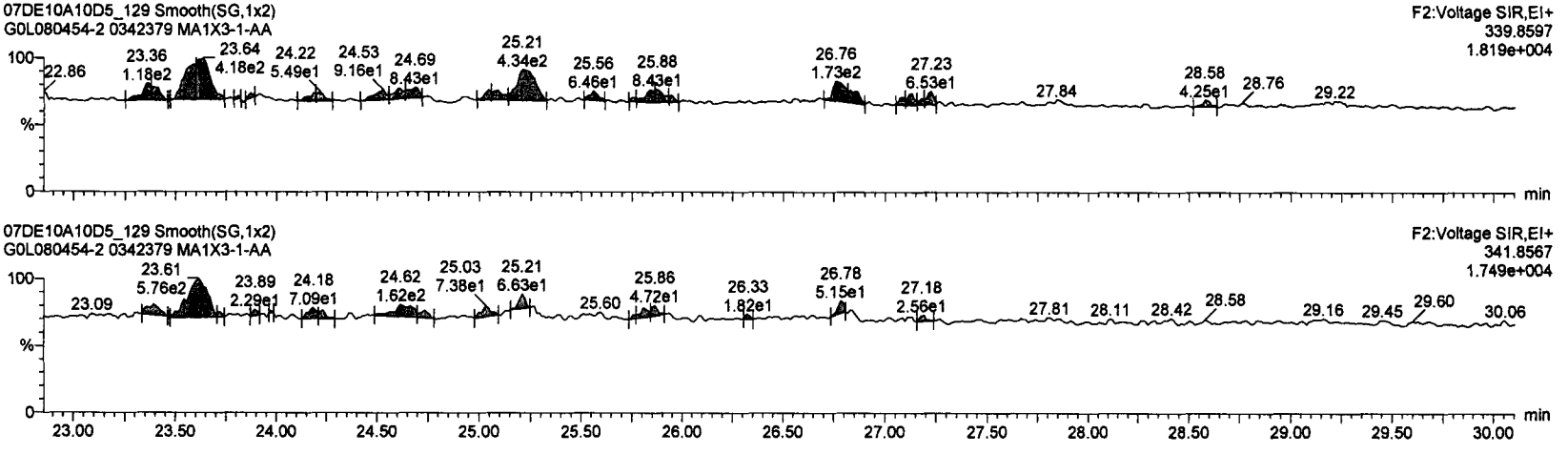
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

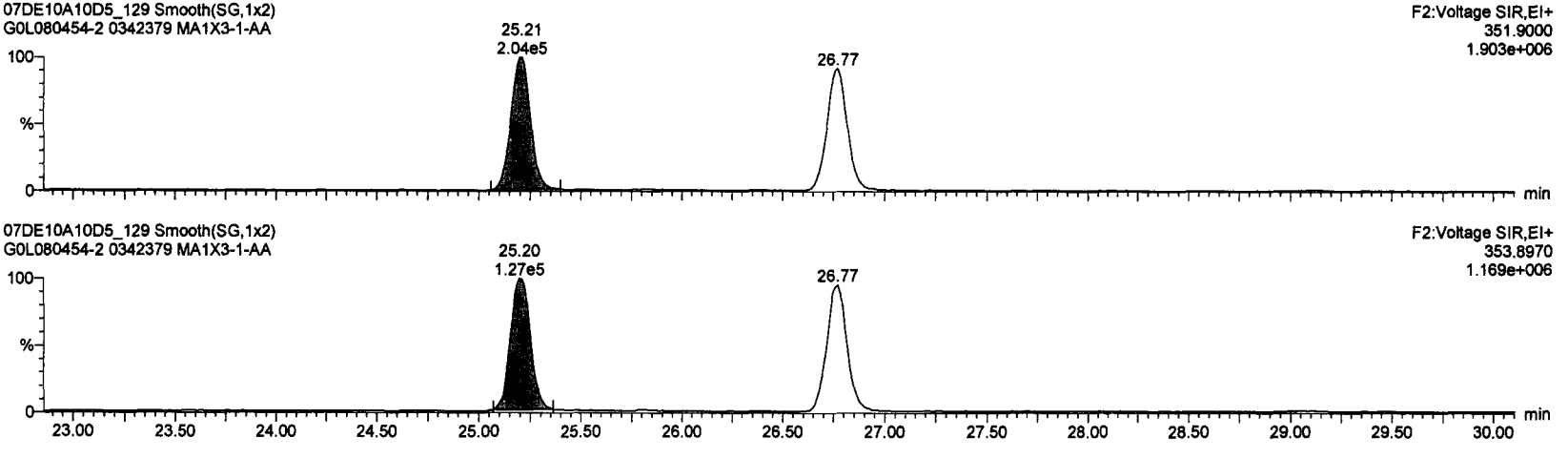
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

PeCDFs



13C-PeCDFs



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

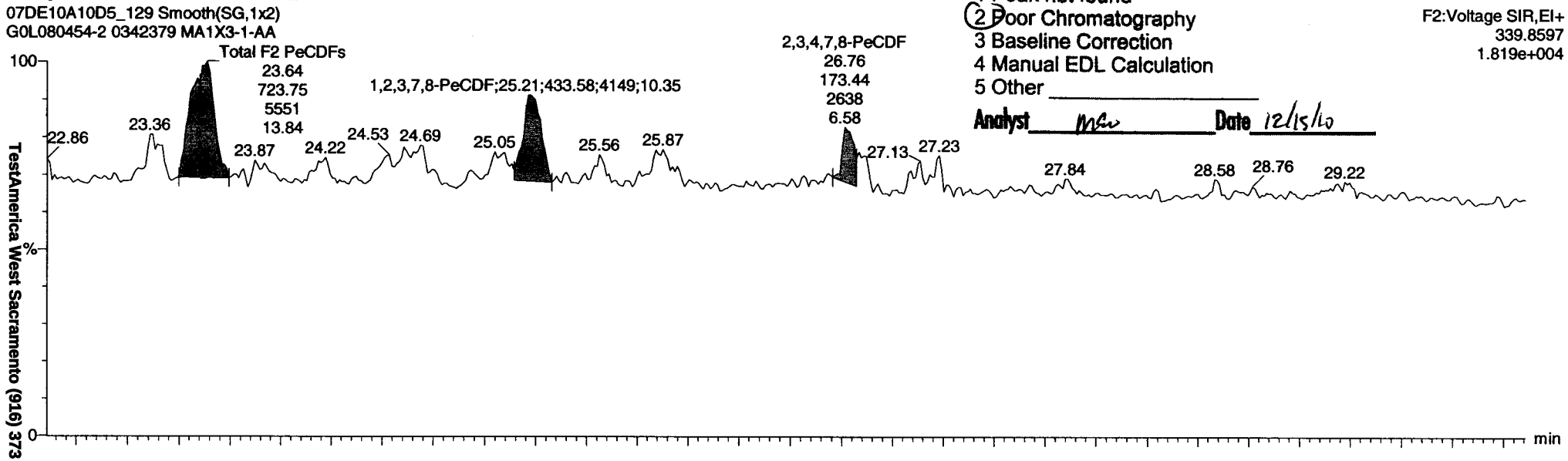
Compound Name: Total F2 PeCDFs, Chrom. Trace: 339.8597

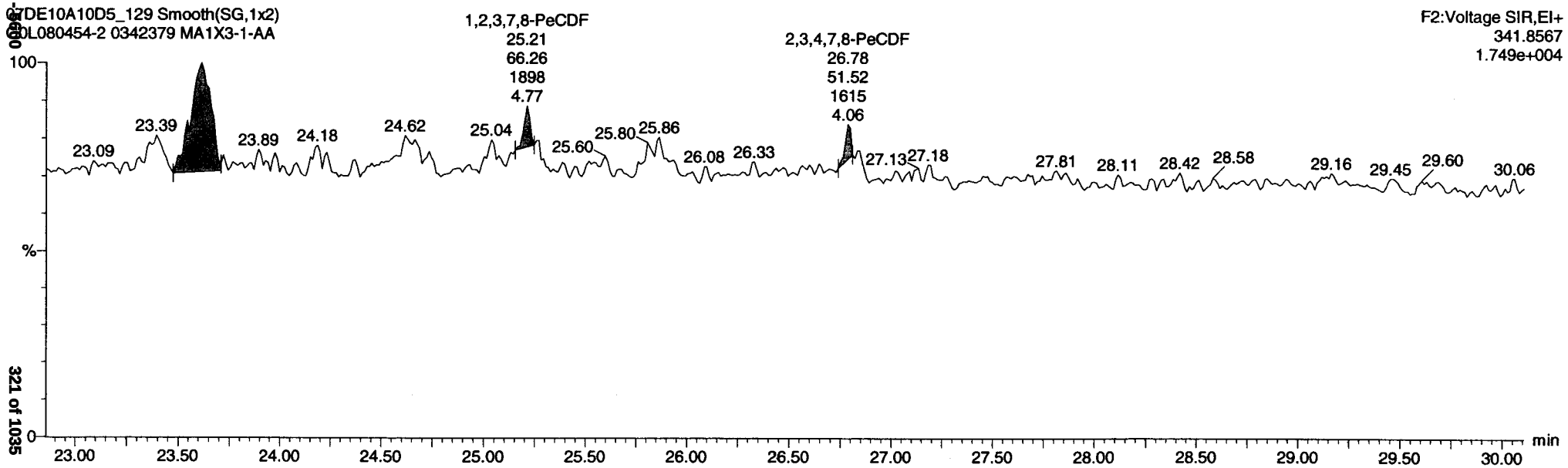
Sample Name: 07DE10A10D5_129

MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst mfw Date 12/15/10





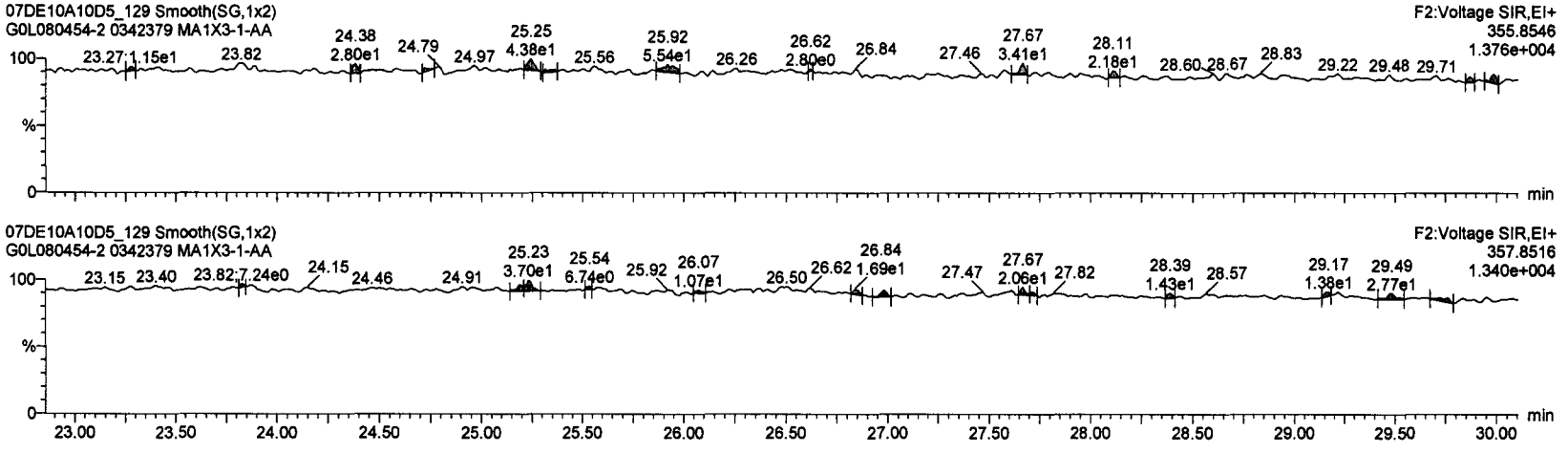
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

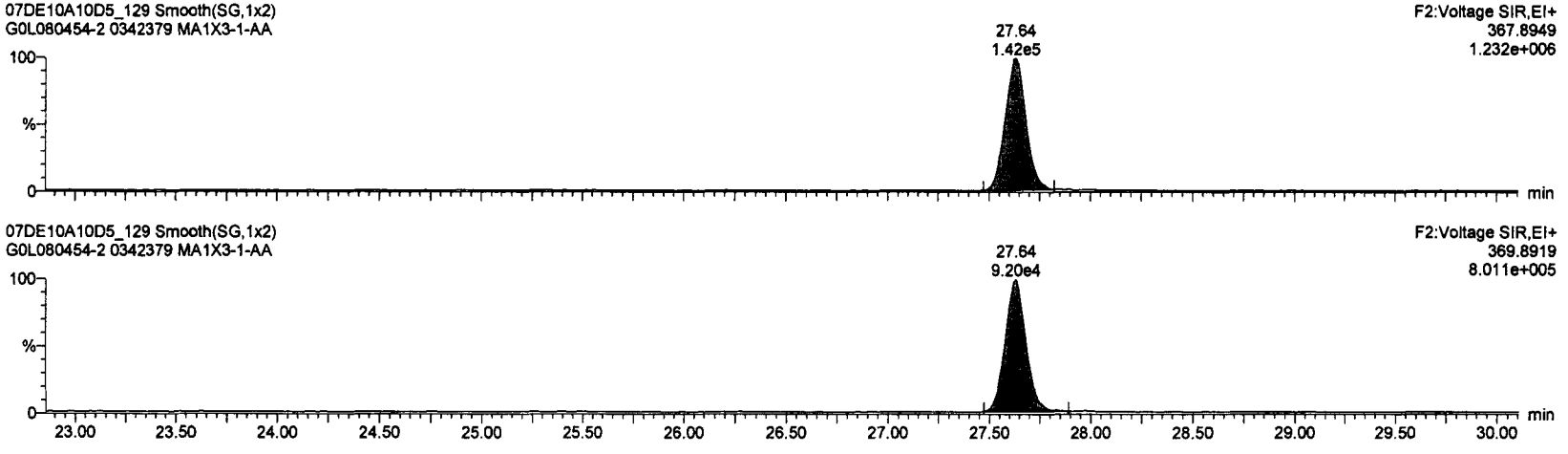
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

PeCDDs



13C-PeCDD



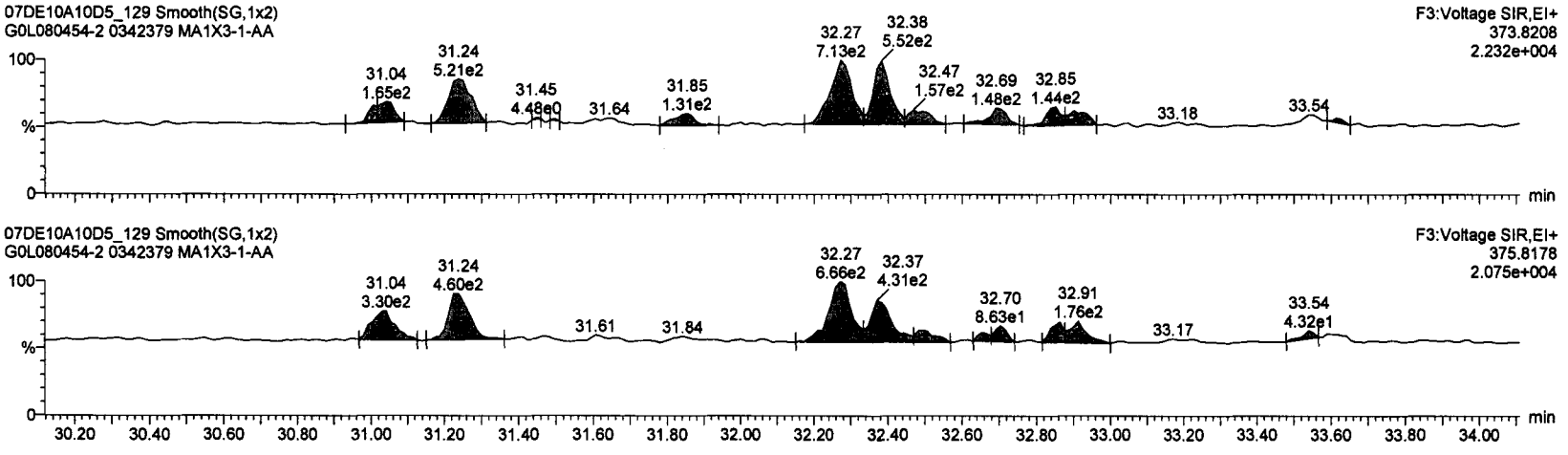
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

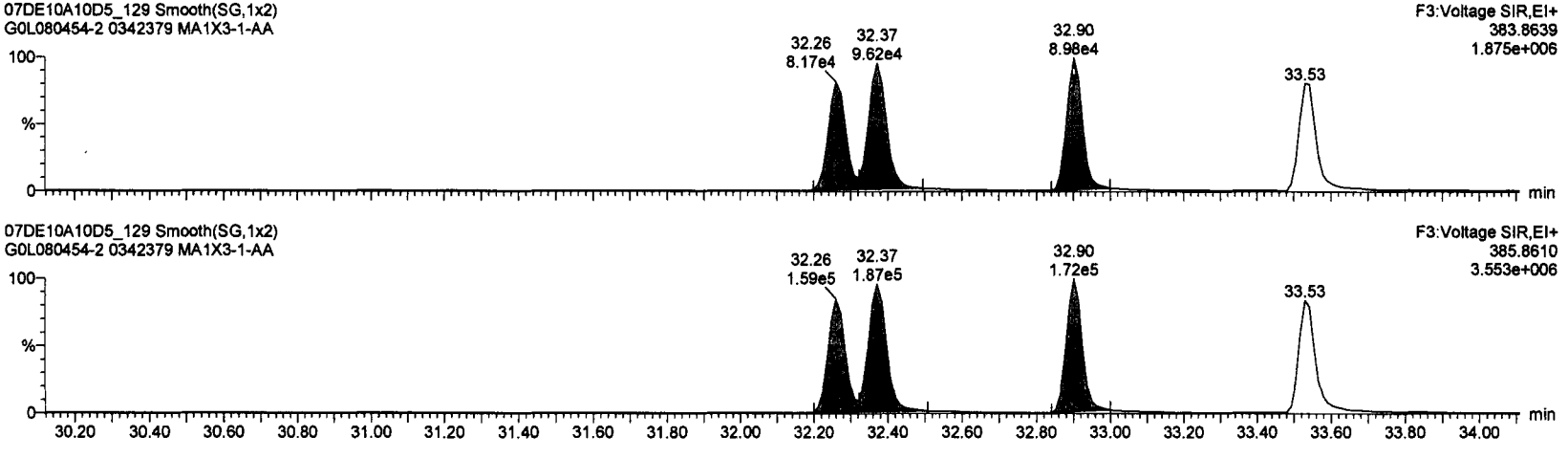
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

HxCDFs



13C-HxCDFs



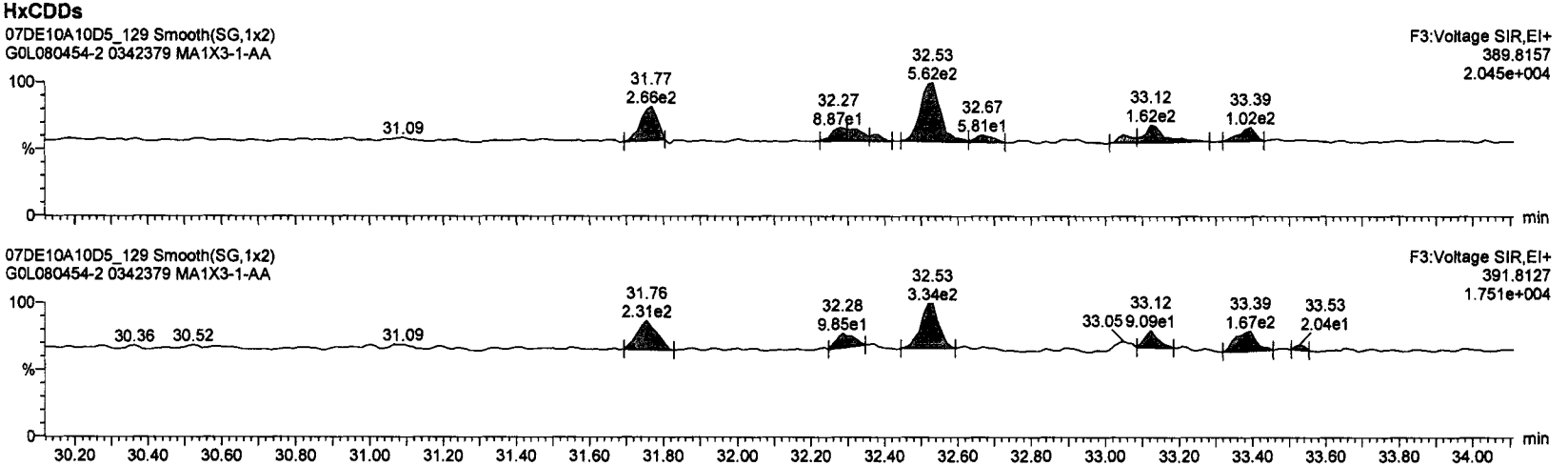
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

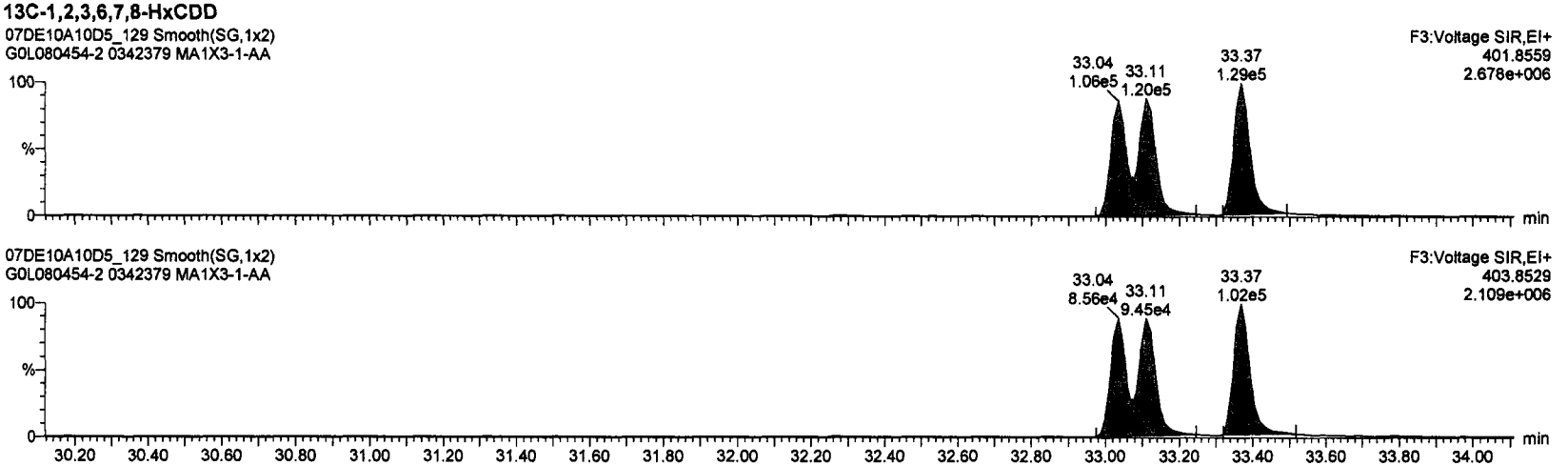
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

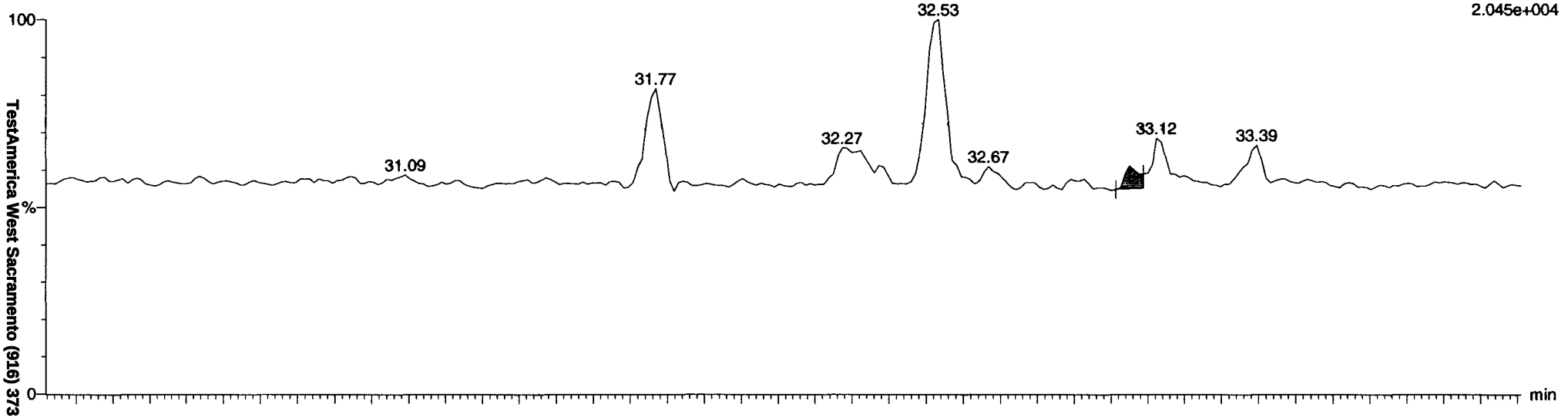
MANUAL EDIT CODES

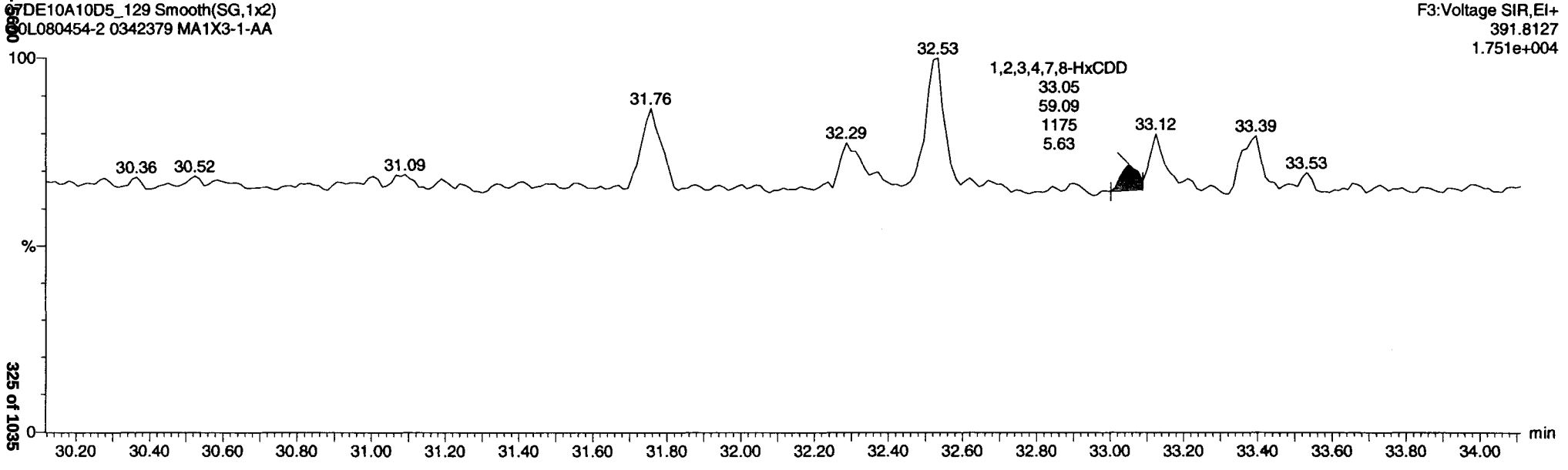
~~1 Peak not found~~
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other wrong peak

Analyst neo Date 12/15/10

Compound Name: 1,2,3,4,7,8-HxCDD, Chrom. Trace: 389.8157

Sample Name: 07DE10A10D5_129





Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

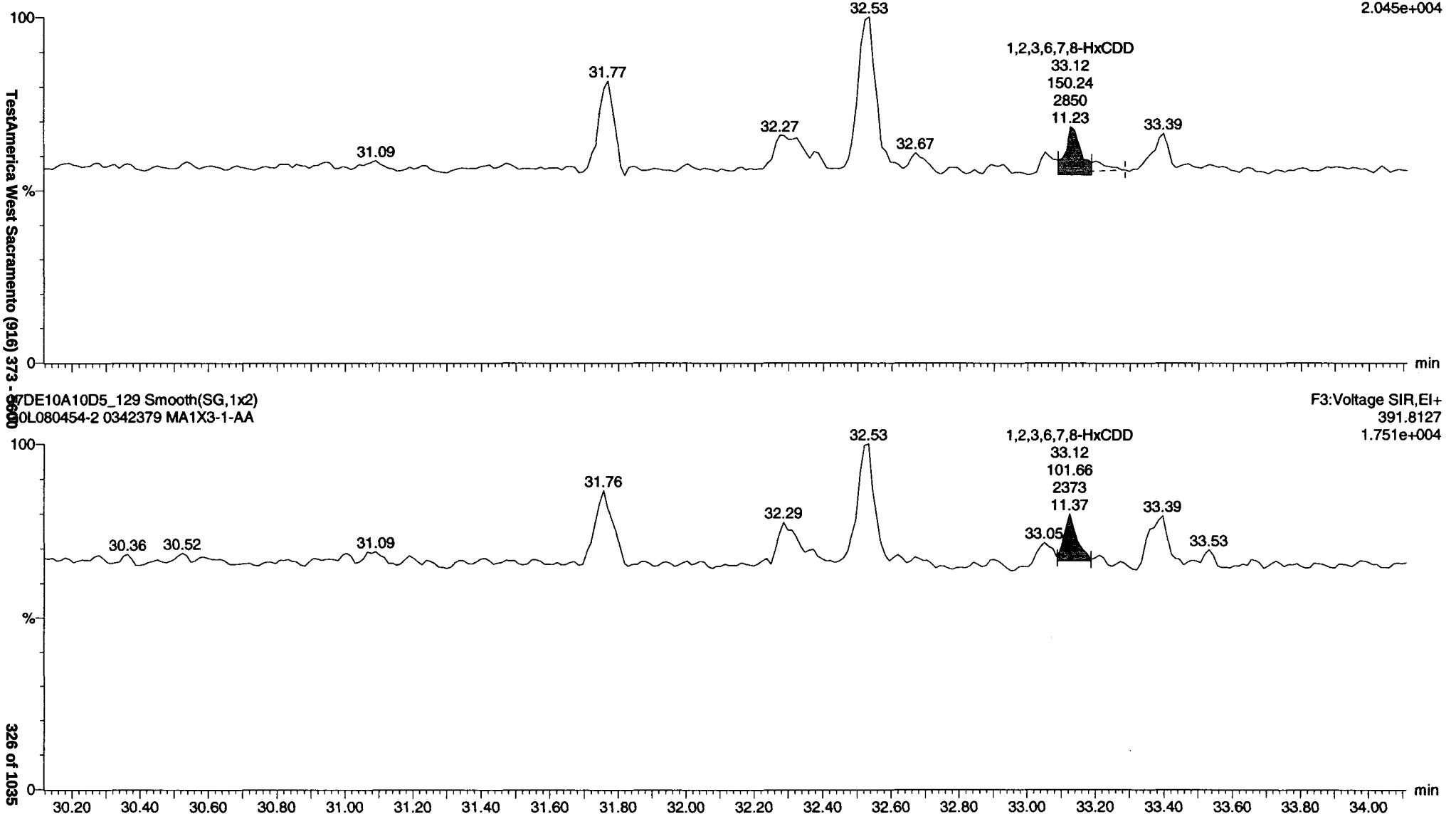
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other wrong peak

Analyst mav Date 12/15/10

Compound Name: 1,2,3,6,7,8-HxCDD, Chrom. Trace: 389.8157

Sample Name: 07DE10A10D5_129



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

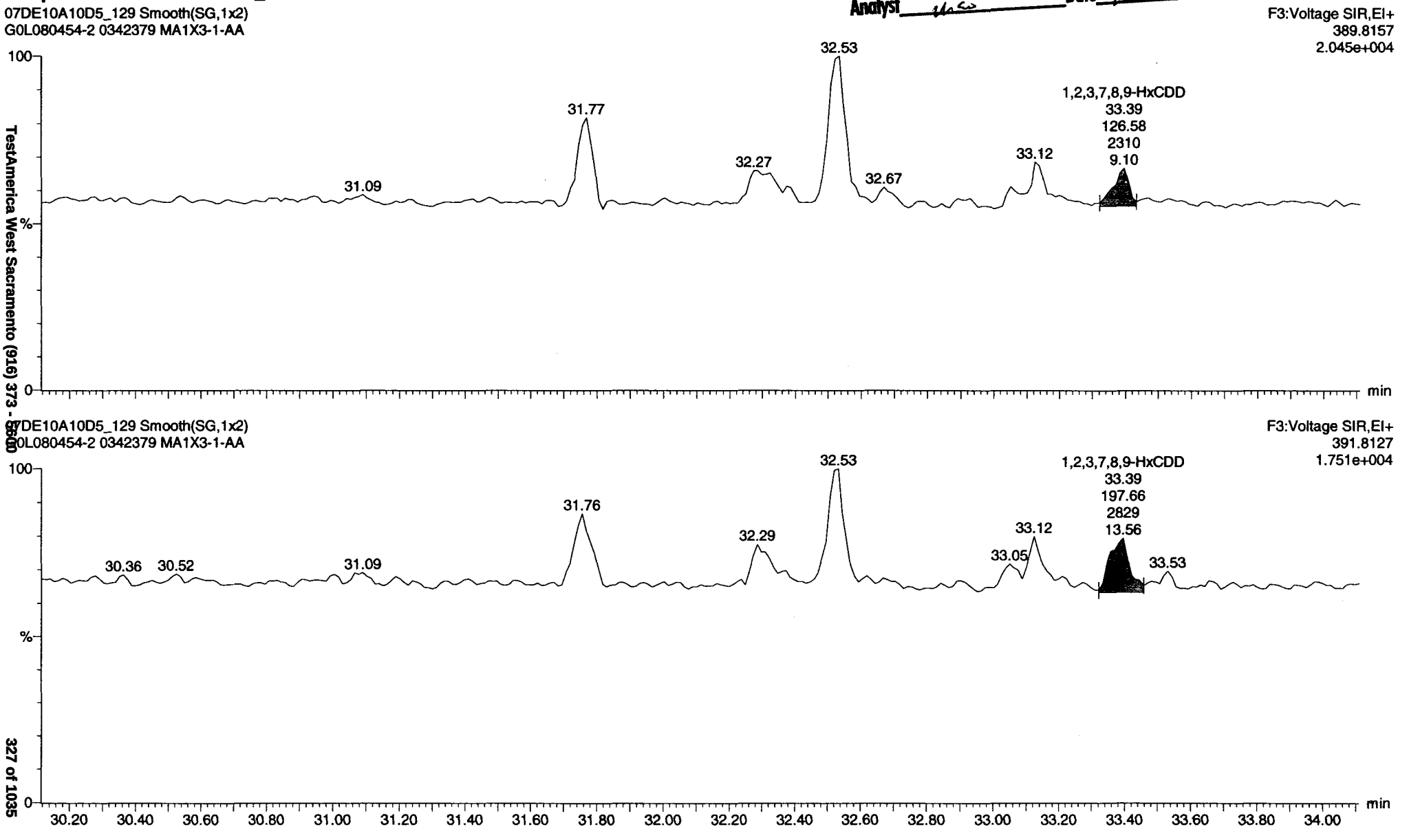
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other Wrong peak

Analyst _____ Date 12/15/10

Compound Name: 1,2,3,7,8,9-HxCDD, Chrom. Trace: 389.8157

Sample Name: 07DE10A10D5_129



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

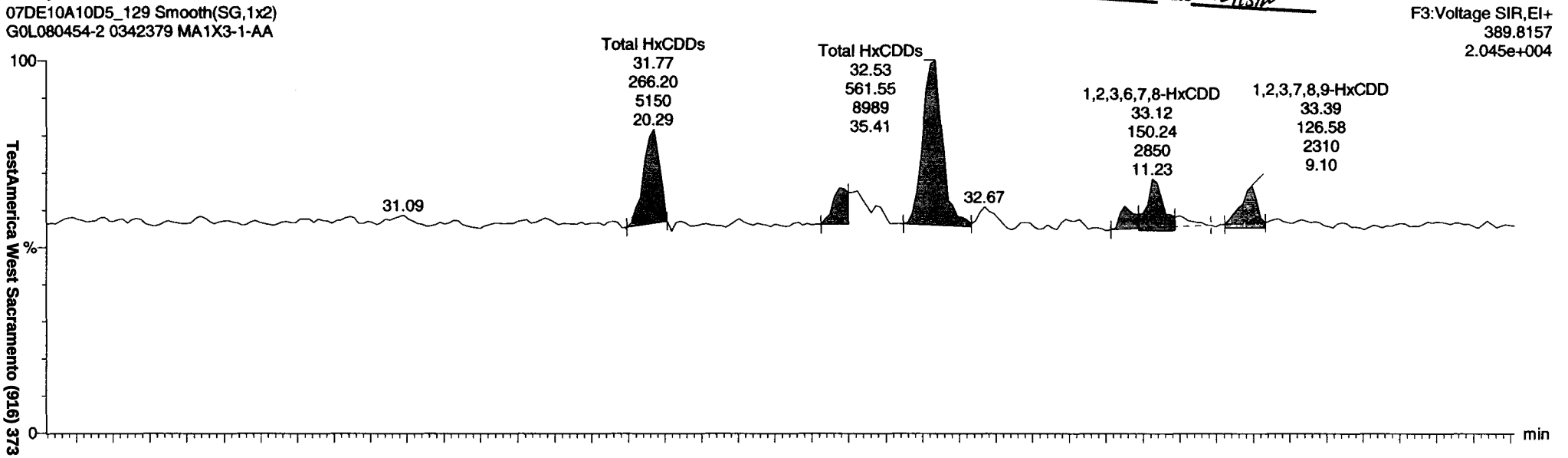
Last Altered: Wednesday, December 15, 2010 14:40:32 Pacific Standard Time
Printed: Wednesday, December 15, 2010 14:53:50 Pacific Standard Time

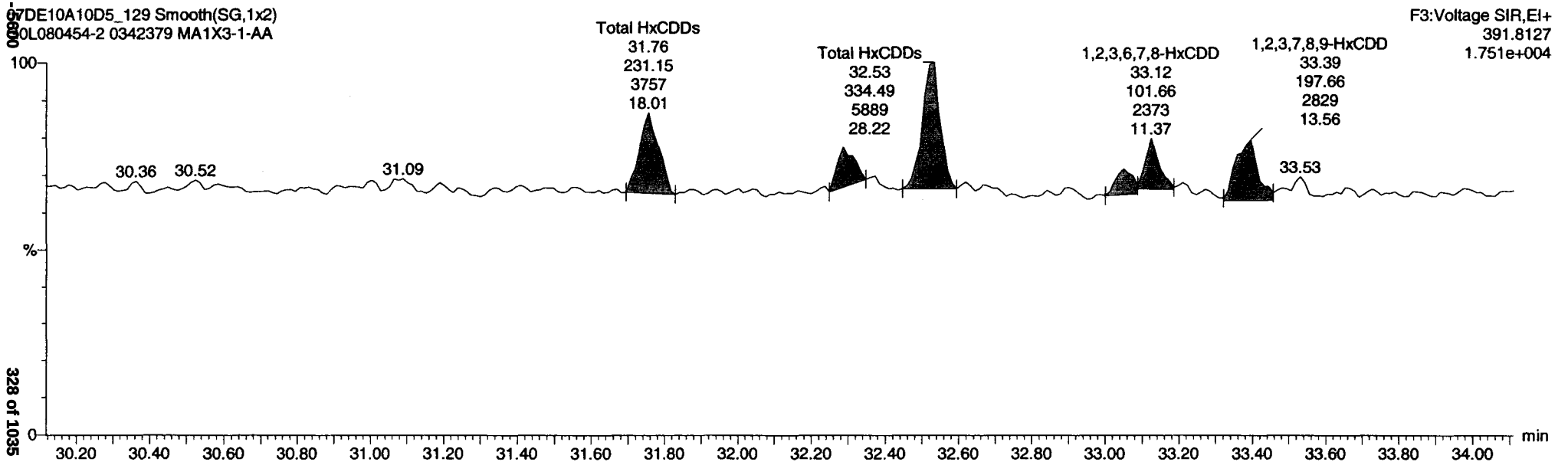
MANUAL EDIT CODES
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other wrong peaks

Analyst MCS Date 12/15/10

Compound Name: Total HxCDDs, Chrom. Trace: 389.8157

Sample Name: 07DE10A10D5_129





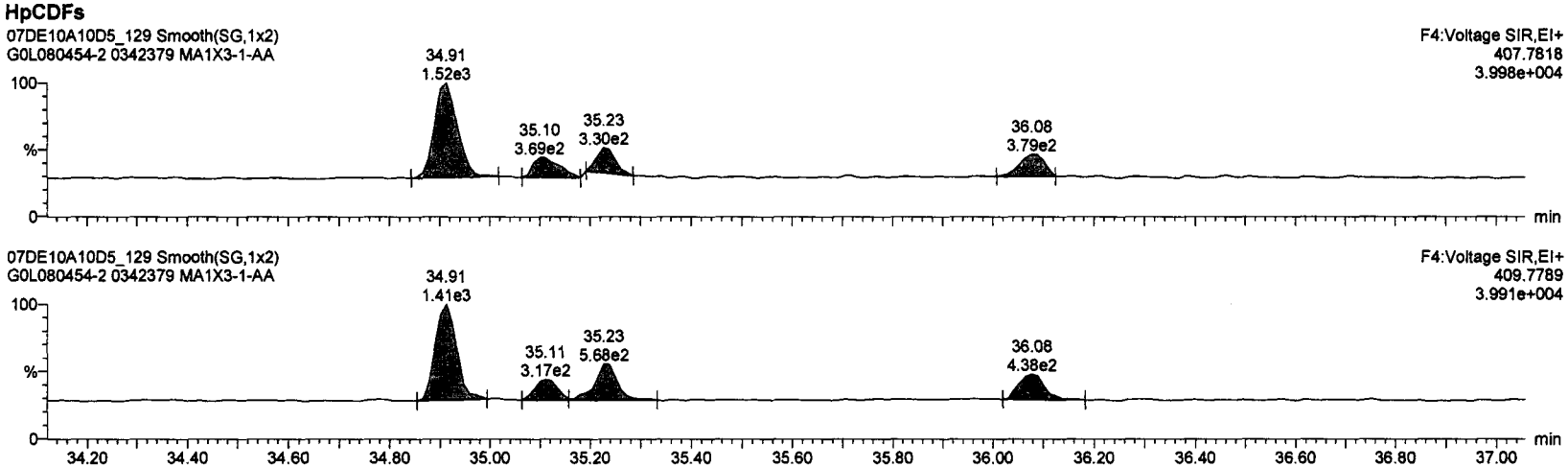
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

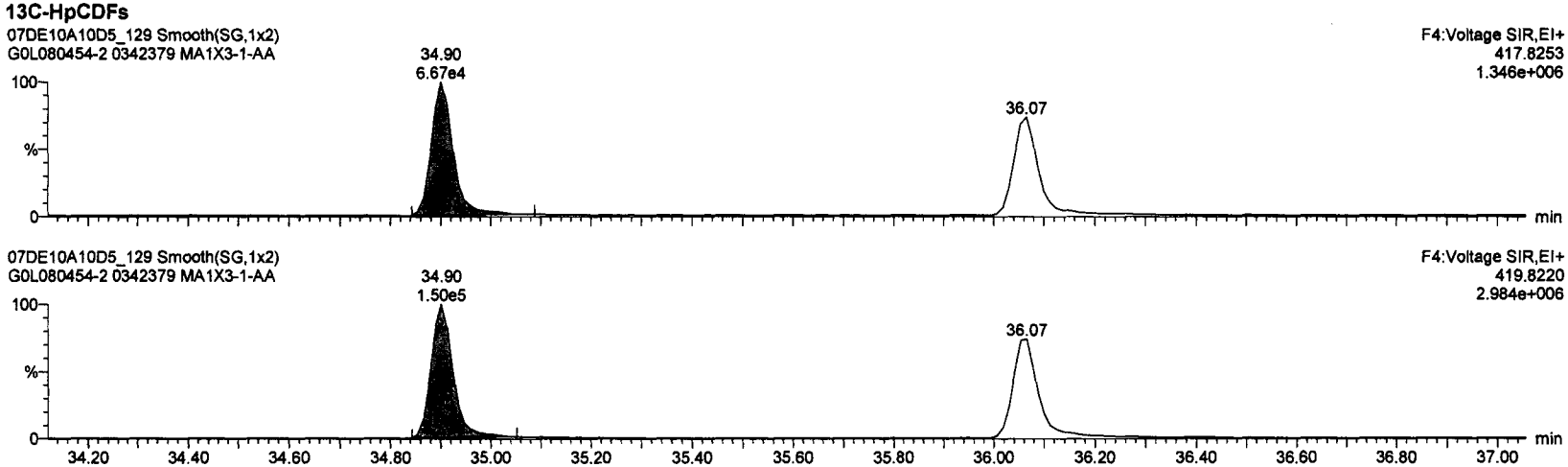
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

HpCDFs



13C-HpCDFs



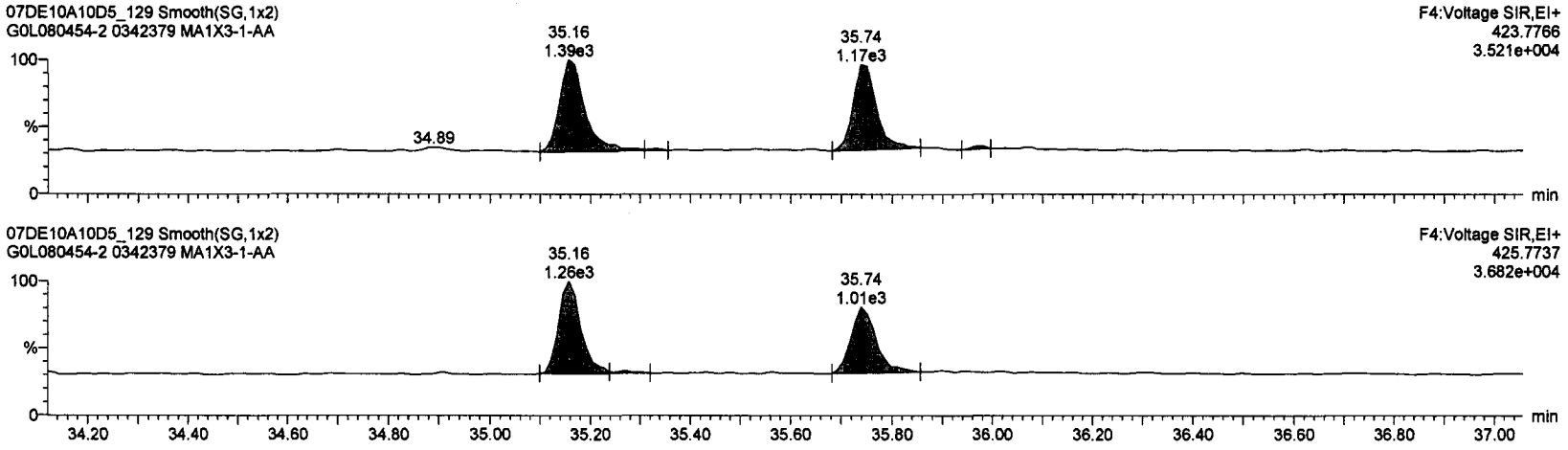
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

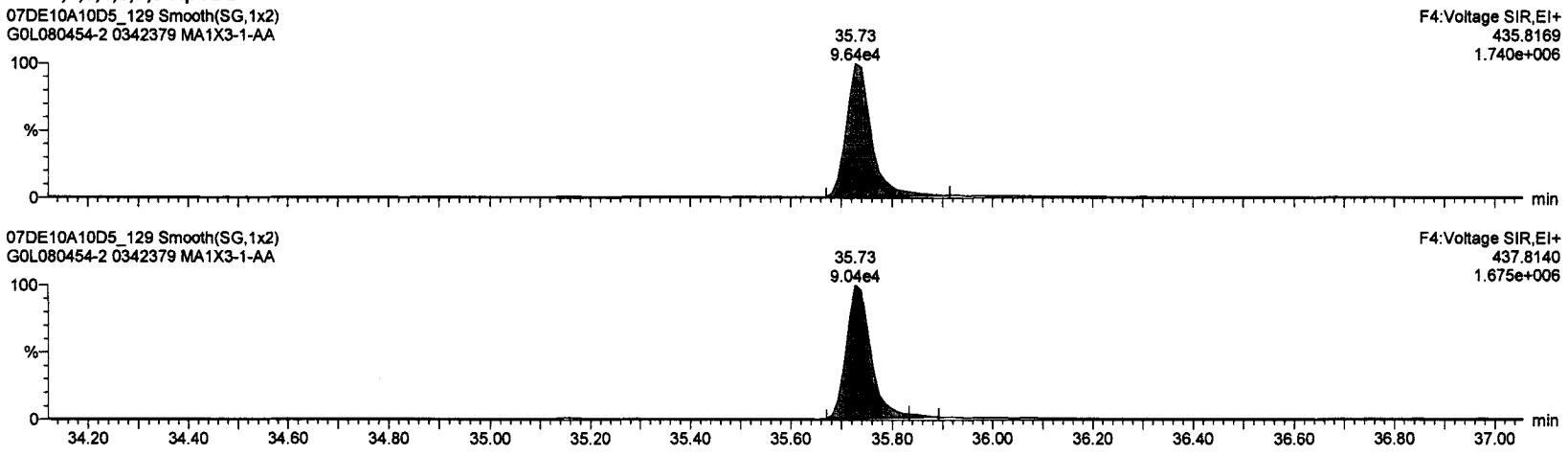
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



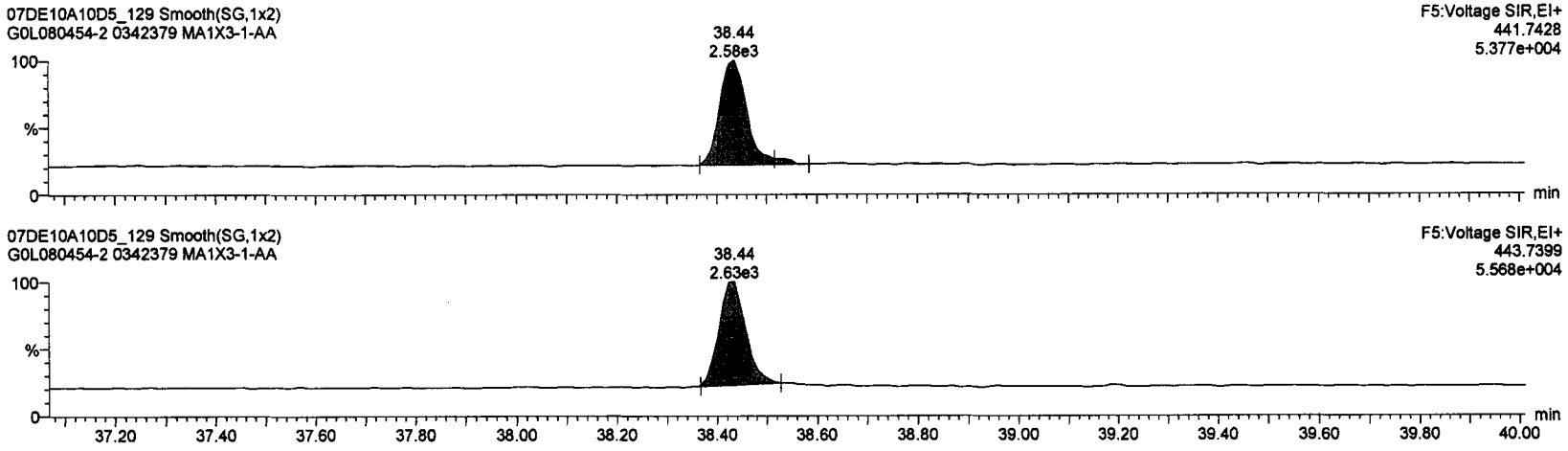
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

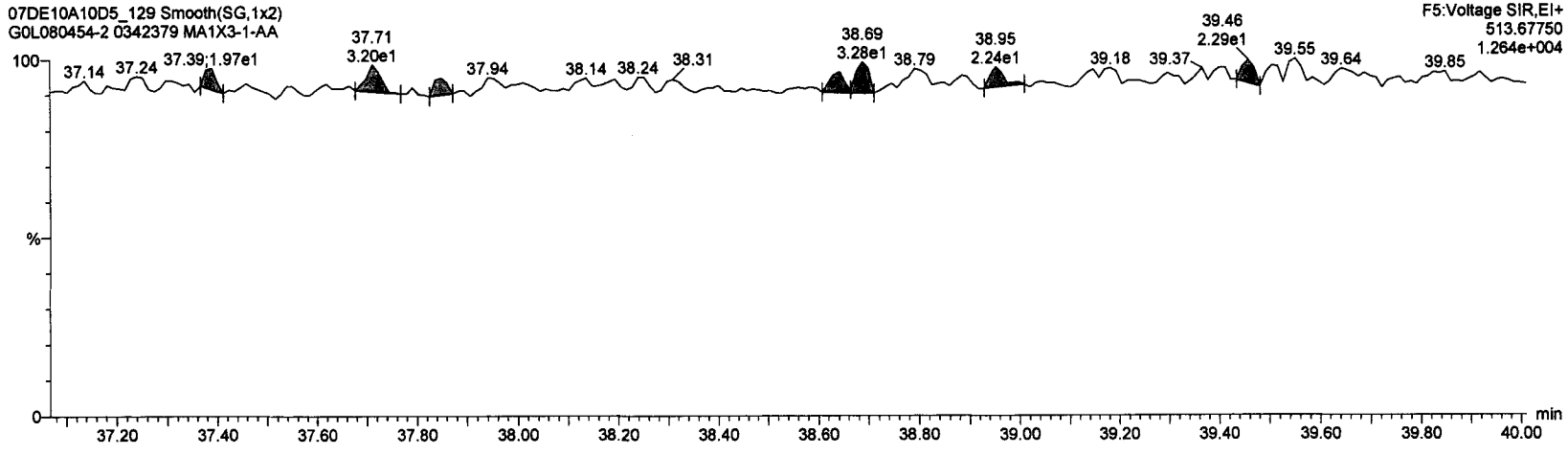
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

OCDFs



OCDF PCDPE



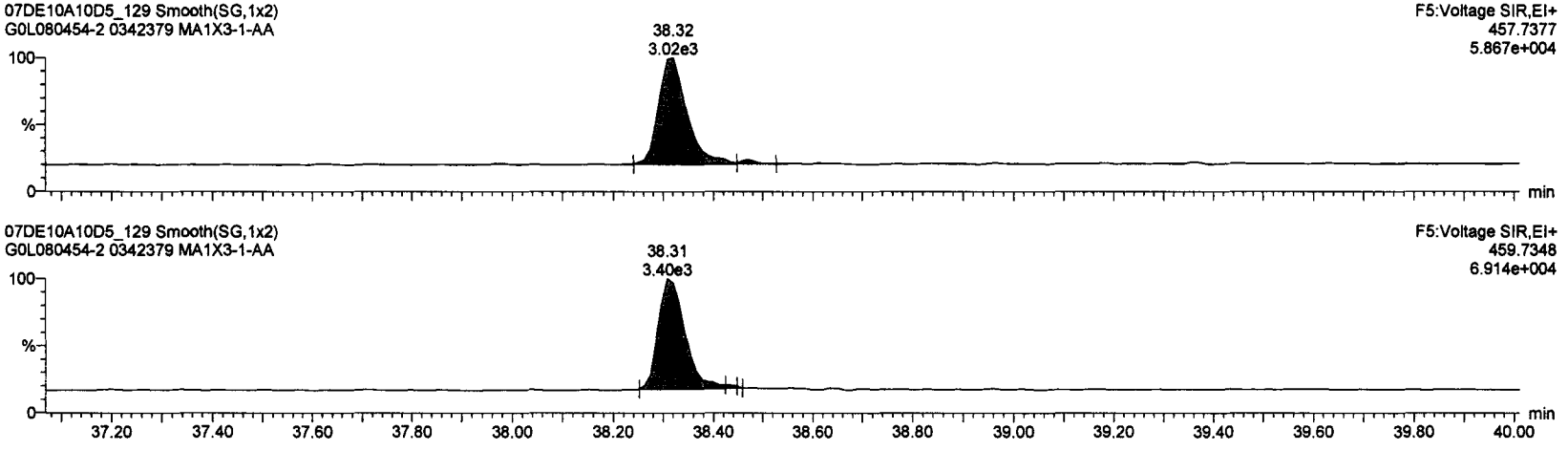
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

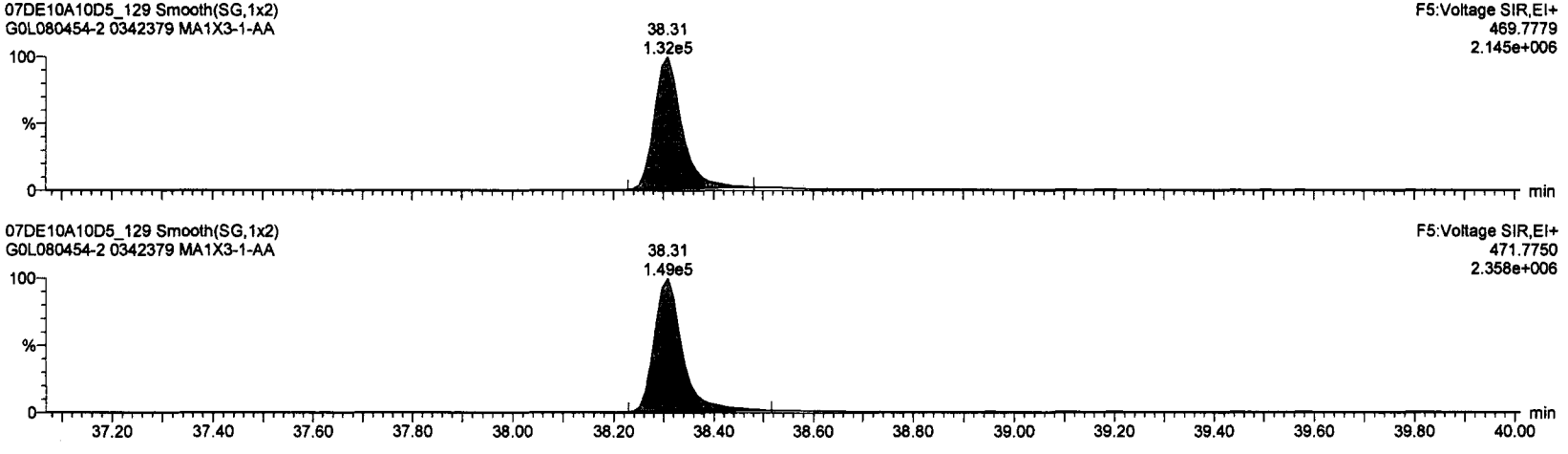
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

OCDD



13C-OCDD



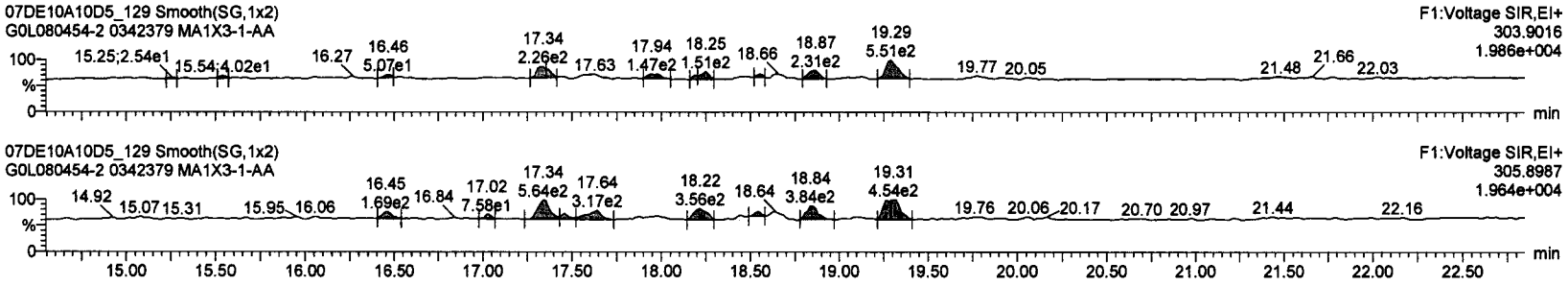
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

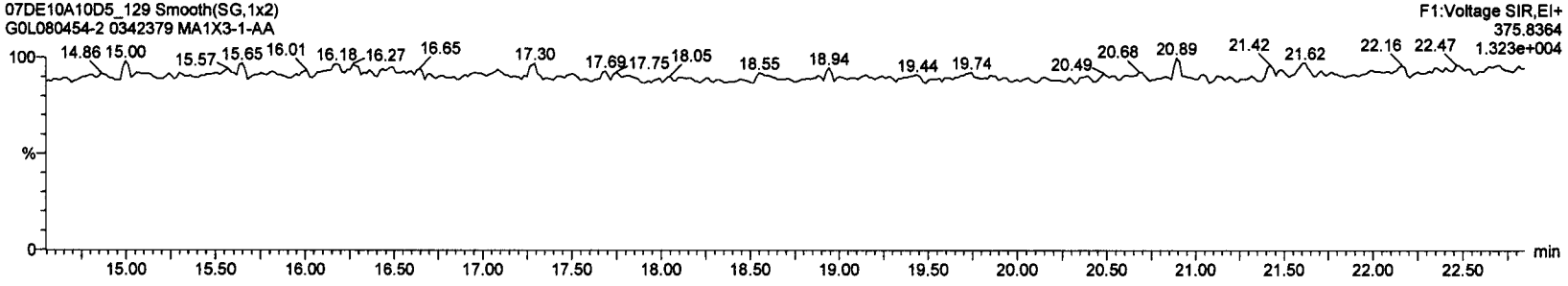
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

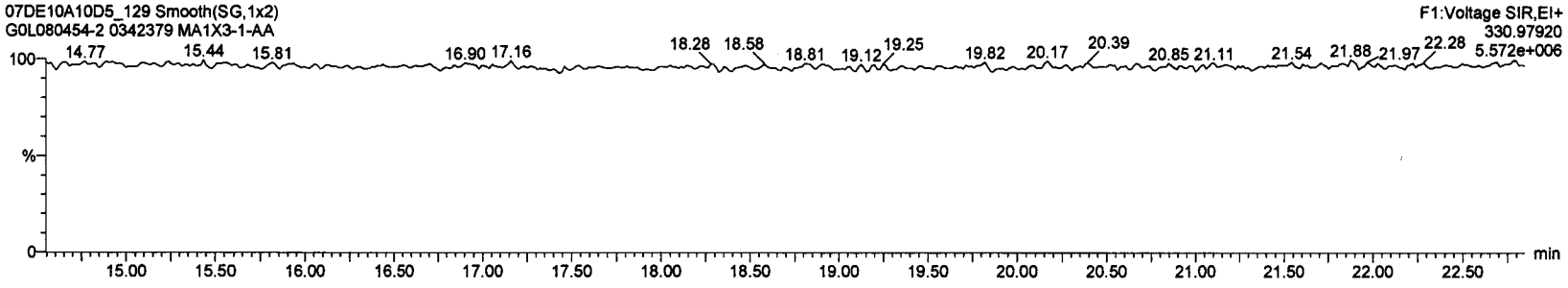
TCDFs



TCDF PCDPE



Function 1 PFK



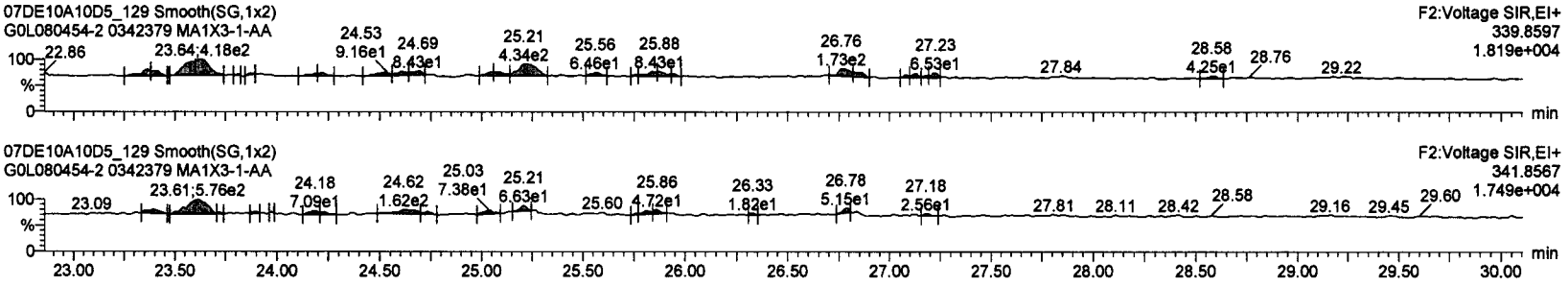
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

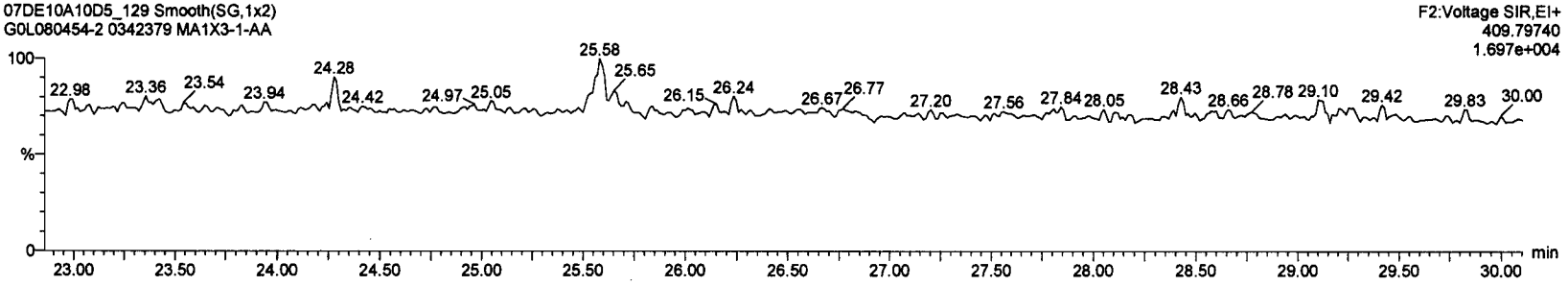
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

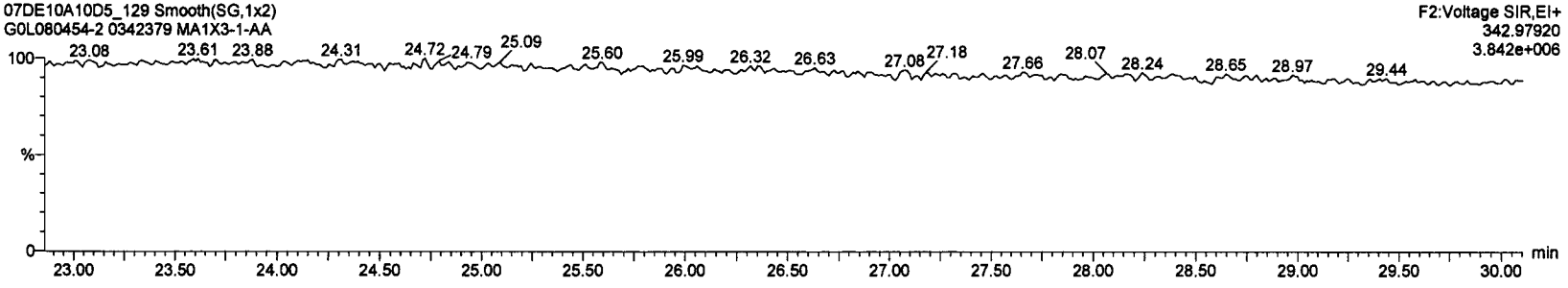
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



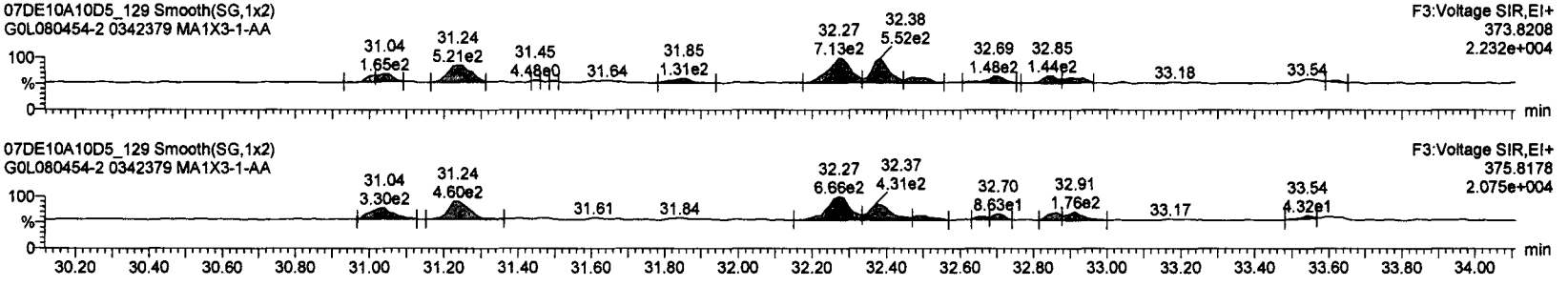
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

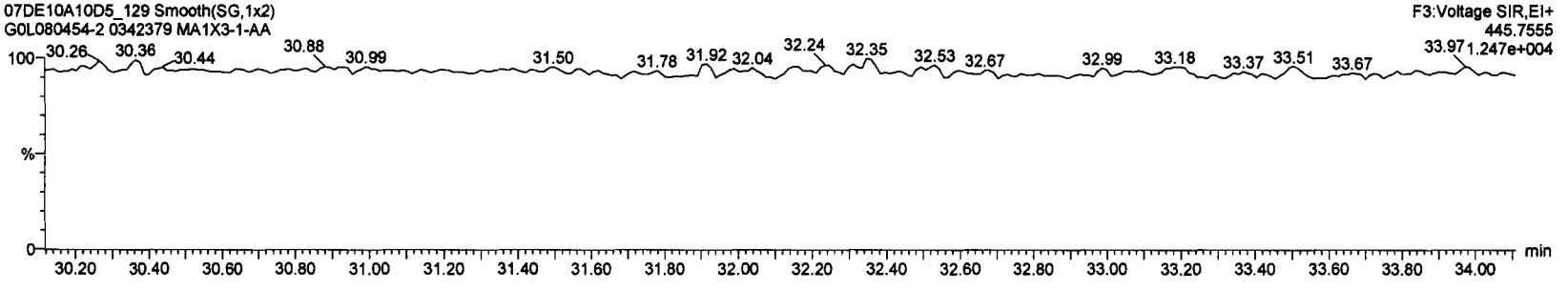
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

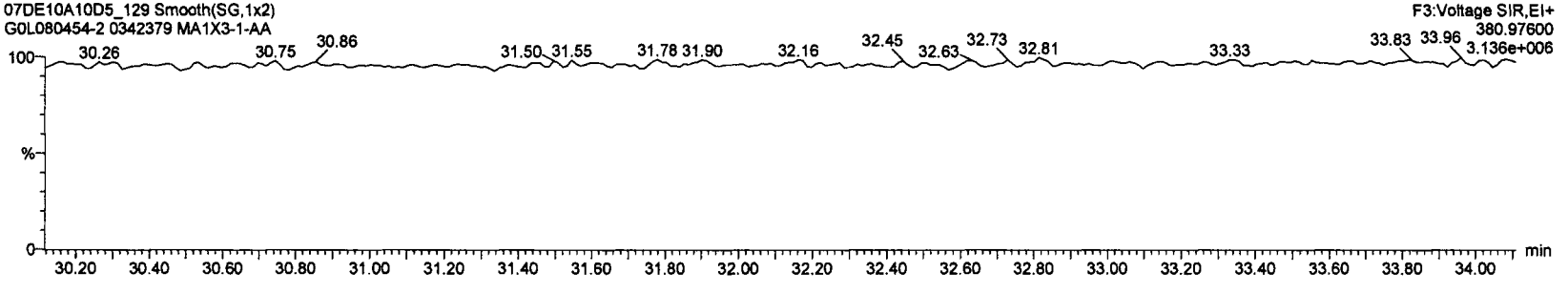
HxCDFs



HxCDF PCDPE



Function 3 PFK



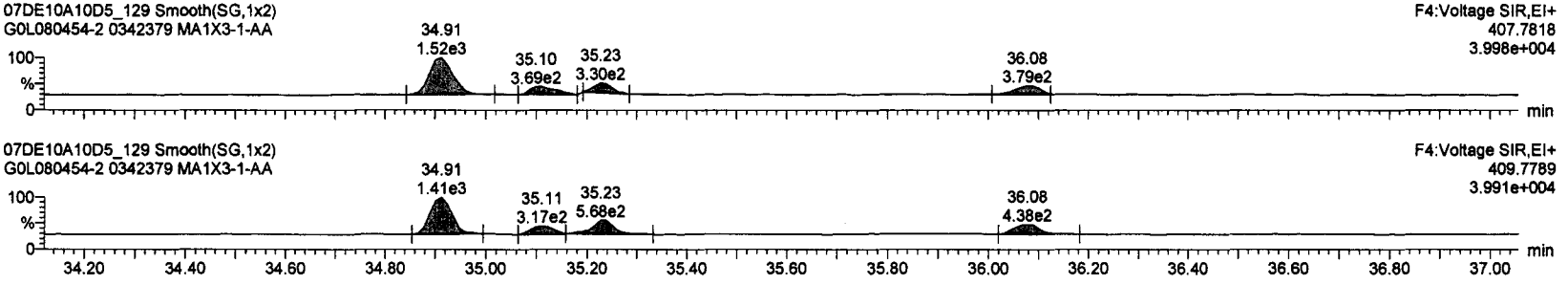
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

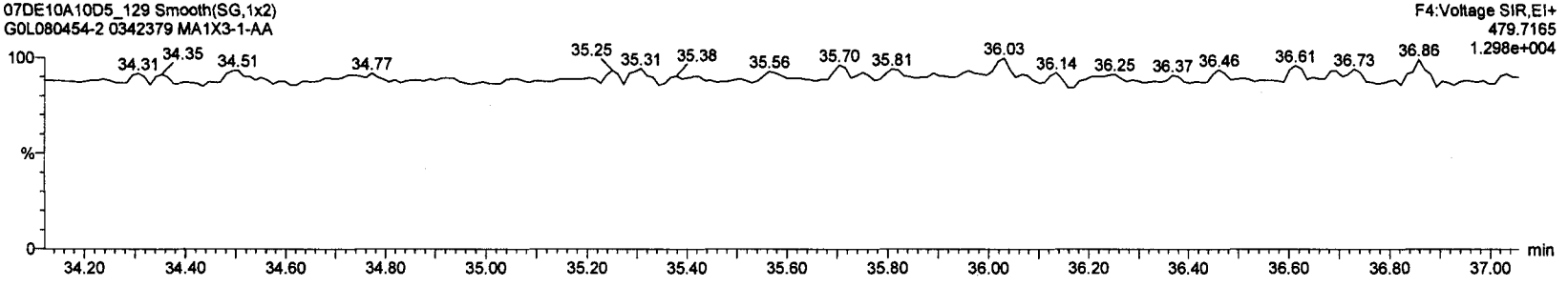
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

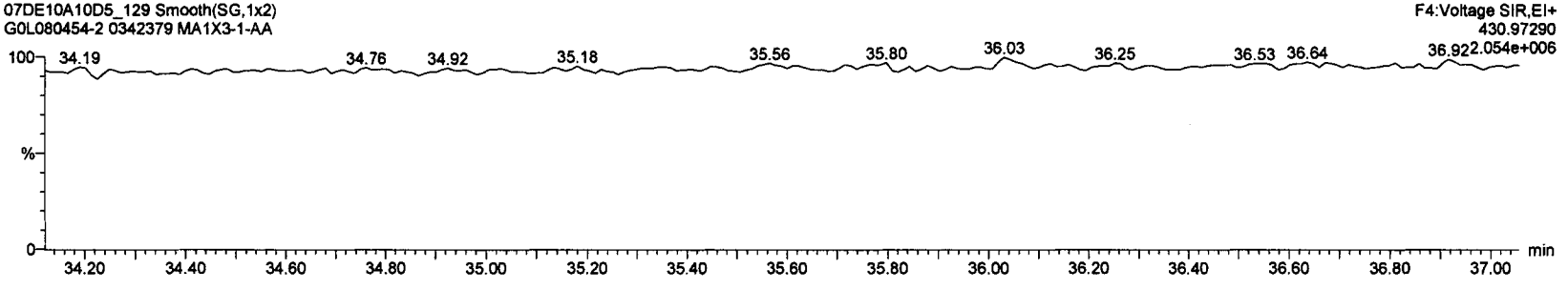
HpCDFs



HpCDF PCDPE



Function 4 PFK



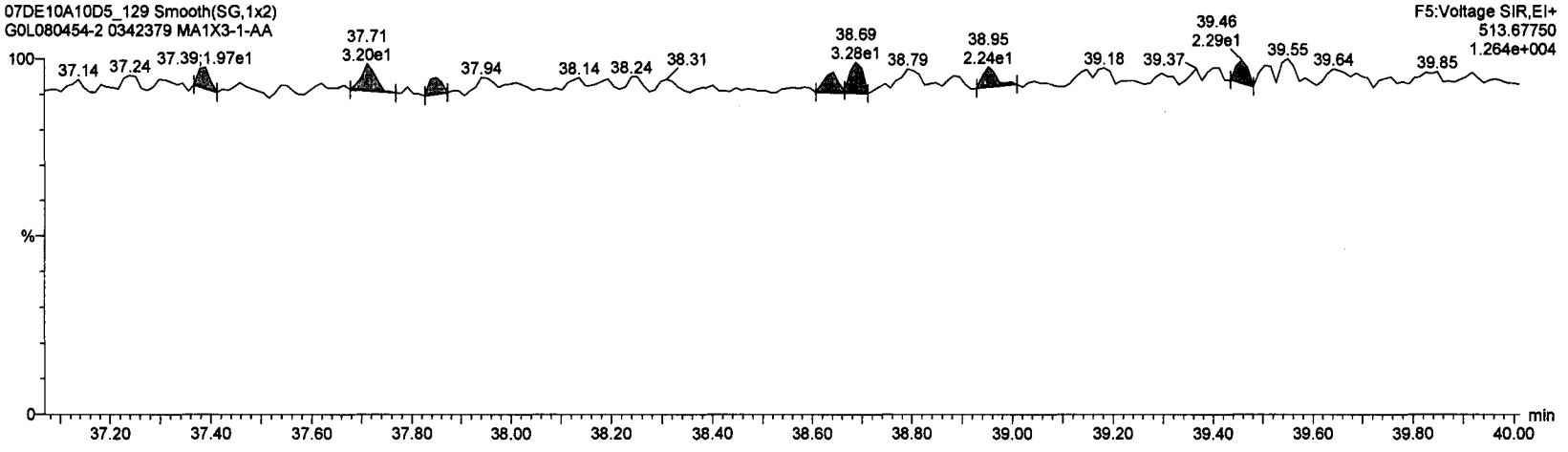
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

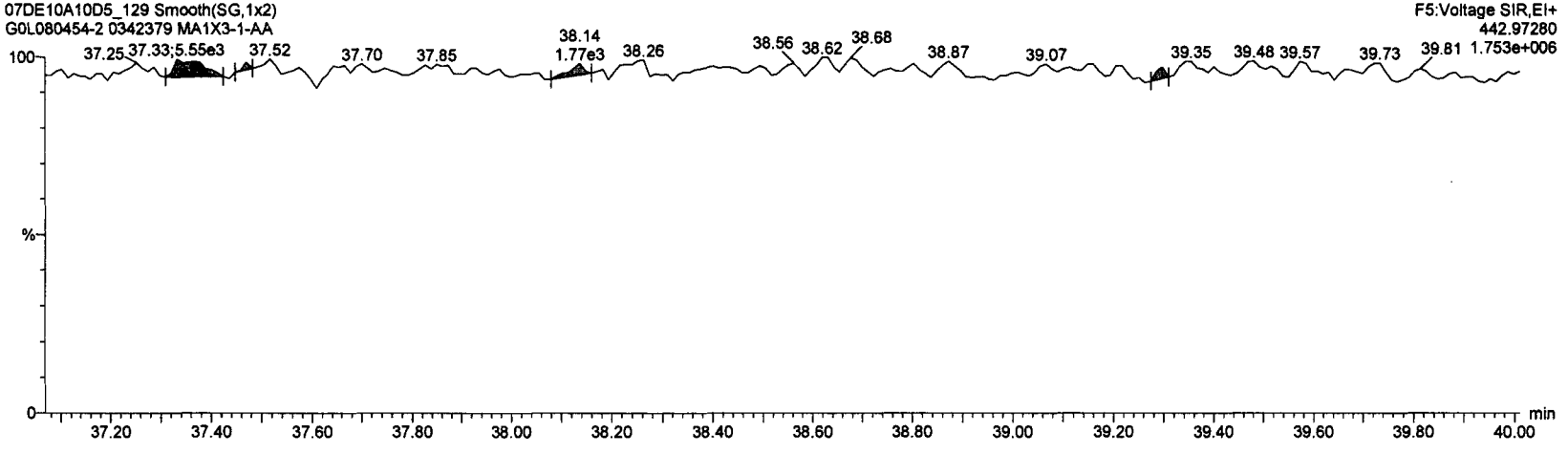
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

OCDF PCDPE



Function 5 PFK



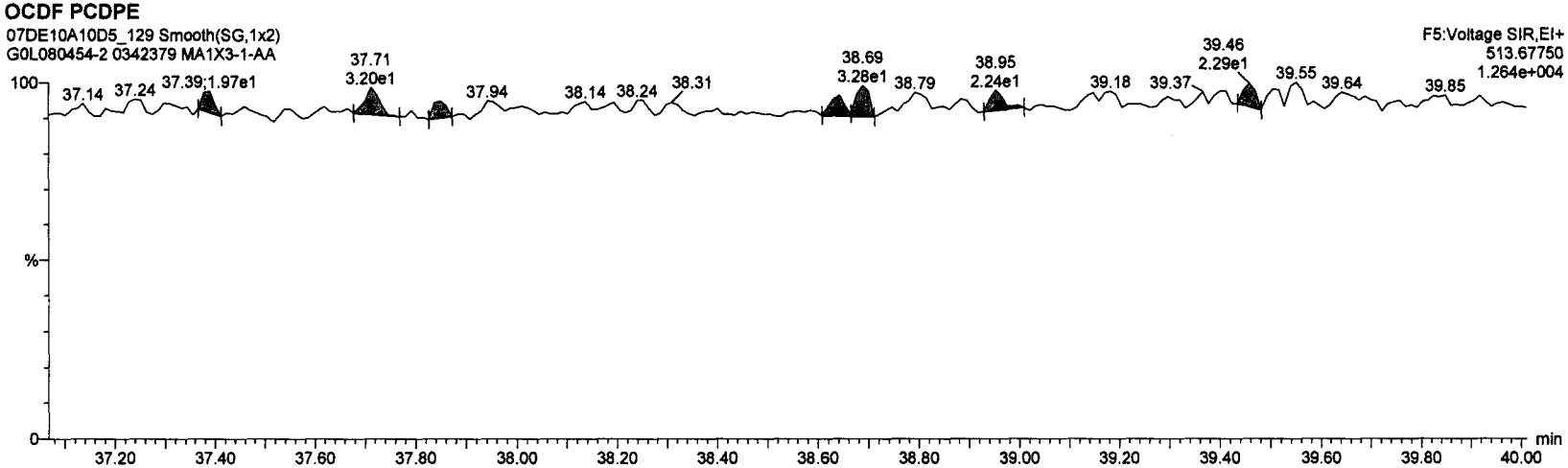
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

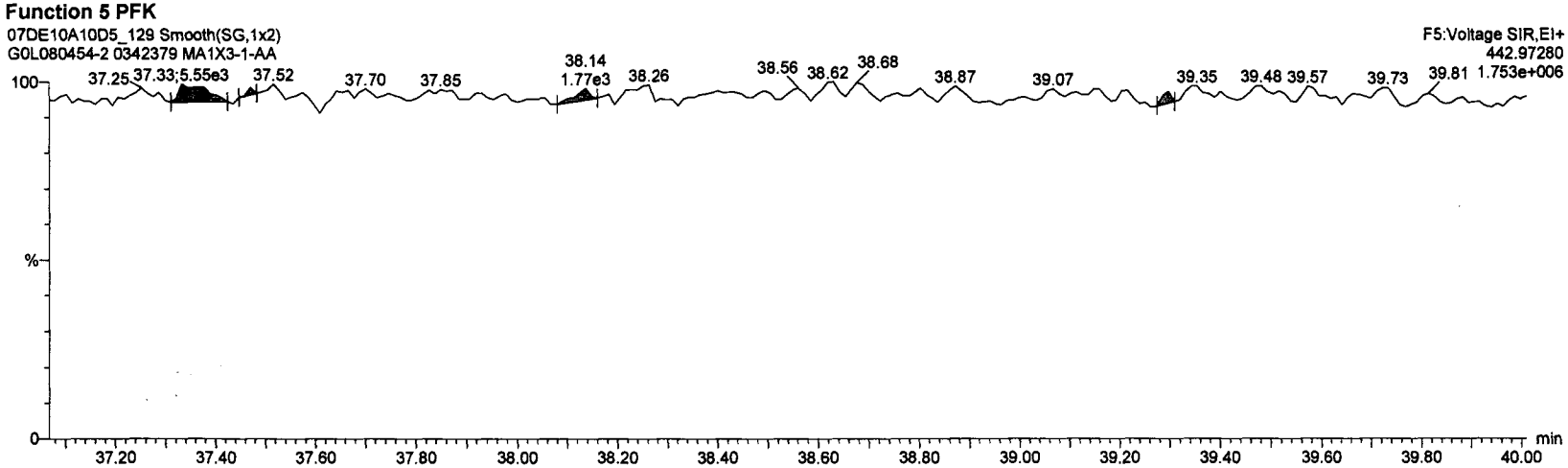
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_129, Date: 11-Dec-2010, Time: 18:24:48, ID: MA1X3-1-AA, Description: G0L080454-2 0342379

OCDF PCDPE



Function 5 PFK



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:37:07 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

12/15/10 MR

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

#	Name	Quan Trace	Standard Dev	RT	Fnd RT	RRF	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Prd Ratio	Fa	Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.50000	19.88	19.87	1.000	372847.03	4000.0000	4000.0000	100.0	4.8814	0.804	0.770	NO		
2																
3	13C-2,3,7,8-TCDF	315.9419	0.50000	19.26	19.26	1.312	447892.42	3662.3542	3662.3542	91.6	2.9730	0.780	0.770	NO		
4	2,3,7,8-TCDF	303.9016	0.50000	19.29	19.26	0.998	3282.26	29.3818	29.3818	See #225	1.8578	0.767	0.770	NO		
5	Total TCDFs	303.9016	0.50000		21.44	0.998		152.2963	148.8451	✓	1.8578					
6																
7	13C-2,3,7,8-TCDD	331.9368	0.50000	20.09	20.10	0.909	330256.72	3896.1310	3896.1310	97.4	5.3678	0.806	0.770	NO		
8	2,3,7,8-TCDD	319.8965	0.50000		20.11	1.035					1.8604		0.770			
9	Total TCDDs	319.8965	0.50000		22.69	1.035		7.8678	7.8678	✓	1.8604					
10																
11	37CL-2,3,7,8-TCDD	327.8847	0.50000	20.12	20.09	0.655	87494.23	1617.1551	0.0000	101.1	2.4514					
12																
13	13C-1,2,3,7,8-PeCDF	351.9000	0.50000	25.20	24.93	1.024	320832.96	3362.0232	3362.0232	84.1	4.2757	1.596	1.550	NO		
14	1,2,3,7,8-PeCDF	339.8597	0.50000	25.23	25.20	1.092	1775.00	20.2723	20.2723	J	3.3074	1.630	1.550	NO		
15	2,3,4,7,8-PeCDF	339.8597	0.50000		26.73	1.064					3.3930		1.550			
16	Total F2 PeCDFs	339.8597	0.50000		34.47	1.078		114.5549	107.9195		3.3496					
17	Total F1 PeCDFs	339.8597	0.50000		36.56	1.078		11.4919	10.2680		2.3326					
18									118.1875							
19	13C-1,2,3,7,8-PeCDD	367.8949	0.50000	27.63	27.30	0.734	236509.63	3454.7428	3454.7428	86.4	3.~~8519~~	1.565	1.550	NO		
20	1,2,3,7,8-PeCDD	355.8546	0.50000		27.63	0.960					3.6384		1.550			
21	Total PeCDDs	355.8546	0.50000		31.10	0.960		3.9608	2.~~4584~~		3.6384					
22																
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.50000	33.37	33.27	1.000	231485.07	4000.0000	4000.0000	100.0	3.2799	1.234	1.240	NO		
24																
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.50000	32.26	32.23	1.049	240515.17	3960.3515	3960.3515	99.0	7.6523	0.541	0.510	NO		
26	1,2,3,4,7,8-HxCDF	373.8208	0.50000	32.27	32.26	1.313	3112.38	39.4346	39.4346	J	2.1575	1.307	1.240	NO		15-Dec-10
27	1,2,3,6,7,8-HxCDF	373.8208	0.50000	32.38	32.38	1.438	2607.40	30.1554	27.5147	JQ	1.9693	1.455	1.240	YES		
28	2,3,4,6,7,8-HxCDF	373.8208	0.50000	32.91	32.92	1.352	444.58	5.4674	5.4674	J	2.0941	1.111	1.240	NO		15-Dec-10
29	1,2,3,7,8,9-HxCDF	373.8208	0.50000	33.54	33.56	1.198	343.96	4.7769	4.0667	JQ	2.3648	0.891	1.240	YES		
30	Total HxCDFs	373.8208	0.50000		0.00	1.325		224.1561	215.2492	✓	2.1371					

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:37:07 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

# Name	Quan Trace	Sample Size	RT	Pred.RT	RRF Mean	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Pred.Ratio	Ra Flag	Mod Date
31														
32 13C-1,2,3,6,7,8-HxCDD	401.8559	0.50000	33.11	33.10	0.905	216784.87	4141.3910	4141.3910	103.5	3.6261	1.271	1.240	NO	
33 1,2,3,4,7,8-HxCDD	389.8157	0.50000	33.03	33.04	0.982	125.04	2.3507	2.1226	JQ	1.4798	0.999	1.240	YES	
34 1,2,3,6,7,8-HxCDD	389.8157	0.50000	33.12	33.11	1.094	242.06	4.0816	4.0816	J	1.3273	1.328	1.240	NO	
35 1,2,3,7,8,9-HxCDD	389.8157	0.50000	33.38	33.38	1.058	341.65	5.9593	5.1814	JQ	1.3730	1.576	1.240	YES	
36 Total HxCDDs	389.8157	0.50000		0.00	1.045		38.0783	37.0723	✓	1.3905				
37														
38 13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.50000	34.90	34.91	0.954	213158.23	3861.3034	3861.3034	96.5	6.3818	0.436	0.440	NO	
39 1,2,3,4,6,7,8-HpCDF	407.7818	0.50000	34.91	34.90	1.463	9032.79	115.8764	115.8764		1.4274	1.074	1.040	NO	
40 1,2,3,4,7,8,9-HpCDF	407.7818	0.50000	36.06	36.07	1.231	2791.34	42.5579	42.5579	J	1.6965	1.115	1.040	NO	
41 Total HpCDFs	407.7818	0.50000		0.00	1.347		223.8606	214.7527	✓	1.5504				
42														
43 13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.50000	35.73	35.75	0.848	185468.30	3777.6853	3777.6853	94.4	6.9712	1.084	1.040	NO	
44 1,2,3,4,6,7,8-HpCDD	423.7766	0.50000	35.74	35.73	1.055	1776.93	36.3413	36.3413	J	1.8487	1.035	1.040	NO	
45 Total HpCDDs	423.7766	0.50000		0.08	1.055		81.7849	81.7849	✓	1.8487				
46														
47 13C-OCDD	469.7779	0.50000	38.31	38.35	0.675	277784.14	7114.9170	7114.9170	88.9	8.2677	0.915	0.890	NO	
48 OCDF	441.7428	0.50000	38.42	38.43	1.486	14665.19	284.1991	284.1991		2.4139	0.886	0.890	NO	
49 OCDD	457.7377	0.50000	38.31	38.31	1.146	4424.23	111.1646	111.1646	J	3.0077	0.810	0.890	NO	
50														
51														
52 Function 1 PFK	330.97920	1.00000		38.25										
53 Function 2 PFK	342.97920	1.00000		38.25										
54 Function 3 PFK	380.97600	1.00000		38.25										
55 Function 4 PFK	430.97290	1.00000		38.25										
56 Function 5 PFK	442.97280	1.00000		0.00										
57 TCDF PCDPE	375.8364	1.00000		38.25										
58 F1 PeCDF PCDPE	409.79740	1.00000		38.25										
59 F2 PeCDF PCDPE	409.79740	1.00000		38.25										
60 HXCDF PCDPE	445.7555	1.00000		38.25										
61 HPCDF PCDPE	479.7165	1.00000		38.25										
62 OCDF PCDPE	513.67750	1.00000		0.00										

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:37:07 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

Total TCDFs

	#	Name	Mass	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Rto Ra.	Ratio?	S/N
1	5	Total TCDFs	303.9016	16.46	646.368	5.7861	5.4005	0.99766	1.8578	0.896	0.770	YES	8.833
2	5	Total TCDFs	303.9016	19.77	385.019	3.4466	2.5599	0.99766	1.8578	0.477	0.770	YES	5.310
3	4	2,3,7,8-TCDF	303.9016	19.29	3282.264	29.3818	29.3818	0.99766	1.8578	0.767	0.770	NO	34.425
4	5	Total TCDFs	303.9016	18.85	1931.083	17.2865	17.2865	0.99766	1.8578	0.747	0.770	NO	24.479
5	5	Total TCDFs	303.9016	18.64	1458.210	13.0534	13.0534	0.99766	1.8578	0.702	0.770	NO	19.099
6	5	Total TCDFs	303.9016	18.50	1769.146	15.8368	15.8368	0.99766	1.8578	0.793	0.770	NO	16.112
7	5	Total TCDFs	303.9016	18.22	1708.494	15.2939	14.1446	0.99766	1.8578	0.914	0.770	YES	19.806
8	5	Total TCDFs	303.9016	17.98	677.419	6.0640	5.3369	0.99766	1.8578	0.620	0.770	YES	10.674
9	5	Total TCDFs	303.9016	17.90	511.956	4.5829	4.2805	0.99766	1.8578	0.895	0.770	YES	7.534
10	5	Total TCDFs	303.9016	17.61	1453.797	13.0139	13.0139	0.99766	1.8578	0.664	0.770	NO	16.344
11	5	Total TCDFs	303.9016	17.34	3189.387	28.5504	28.5504	0.99766	1.8578	0.745	0.770	NO	41.245

Total TCDDs

	#	Name	Mass	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Rto Ra.	Ratio?	S/N
1	9	Total TCDDs	319.8965	17.85	432.269	5.0602	5.0602	1.03464	1.8604	0.682	0.770	NO	10.304
2	9	Total TCDDs	319.8965	17.52	239.834	2.8076	2.8076	1.03464	1.8604	0.771	0.770	NO	5.214

Total F2 PeCDFs

	#	Name	Mass	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Rto Ra.	Ratio?	S/N
1	1.	1,2,3,7,8-PeCDF	339.8597	25.23	1774.997	20.2723	20.2723	1.09163	3.3074	1.630	1.550	NO	15.183
2	1.	Total F2 PeCD...	339.8597	25.06	695.755	8.0477	8.0477	1.07787	3.3496	1.640	1.550	NO	6.822
3	1.	Total F2 PeCD...	339.8597	24.69	1253.633	14.5005	14.5005	1.07787	3.3496	1.628	1.550	NO	9.669
4	1.	Total F2 PeCD...	339.8597	23.61	5216.993	60.3439	53.7085	1.07787	3.3496	1.865	1.550	YES	32.618
5	1.	Total F2 PeCD...	339.8597	23.38	984.761	11.3905	11.3905	1.07787	3.3496	1.722	1.550	NO	9.790

Total F1 PeCDFs

	#	Name	Mass	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Rto Ra.	Ratio?	S/N
1	1.	Total F1 PeCD...	339.8597	21.79	993.529	11.4919	10.2680	1.07787	2.3326	1.189	1.550	YES	18.339

Total PeCDDs

	#	Name	Mass	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Rto Ra.	Ratio?	S/N
1	2.	Total PeCDDs	355.8546	25.86	124.185	2.1871	1.6251	0.96030	3.6384	0.824	1.550	YES	5.826
2	2.	Total PeCDDs	355.8546	25.22	100.708	1.7737	0.8333	0.96030	3.6384	0.400	1.550	YES	3.745

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:37:07 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

Total HxCDFs

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	3.	Total HxCDFs	373.8208	32.72	862.544	10.8254	9.6787	1.32511	2.1371	0.980	1.240	YES	8.871
2	3.	Total HxCDFs	373.8208	32.49	897.747	11.2673	9.8907	1.32511	2.1371	0.945	1.240	YES	11.585
3	2.	1,2,3,6,7,8-Hx...	373.8208	32.38	2607.405	30.1554	27.5147	1.43801	1.9693	1.455	1.240	YES	30.439
4	2.	1,2,3,4,7,8-Hx...	373.8208	32.27	3112.383	39.4346	39.4346	1.31260	2.1575	1.307	1.240	NO	42.798
5	3.	Total HxCDFs	373.8208	31.85	498.132	6.2518	6.2518	1.32511	2.1371	1.273	1.240	NO	7.576
6	3.	Total HxCDFs	373.8208	31.64	726.854	9.1224	9.1224	1.32511	2.1371	1.123	1.240	NO	8.190
7	3.	Total HxCDFs	373.8208	31.47	245.137	3.0766	2.6454	1.32511	2.1371	0.908	1.240	YES	2.786
8	3.	Total HxCDFs	373.8208	31.24	3898.659	48.9305	48.9305	1.32511	2.1371	1.311	1.240	NO	38.997
9	3.	Total HxCDFs	373.8208	31.03	2145.248	26.9241	26.9241	1.32511	2.1371	1.341	1.240	NO	22.111
10	3.	Total HxCDFs	373.8208	33.61	463.448	5.8165	5.8165	1.32511	2.1371	1.180	1.240	NO	5.678
11	2.	1,2,3,7,8,9-Hx...	373.8208	33.54	343.959	4.7769	4.0667	1.19752	2.3648	0.891	1.240	YES	5.511
12	2.	2,3,4,6,7,8-Hx...	373.8208	32.91	444.580	5.4674	5.4674	1.35233	2.0941	1.111	1.240	NO	7.815
13	3.	Total HxCDFs	373.8208	32.25	806.667	10.1241	8.8440	1.32511	2.1371	0.936	1.240	YES	24.139
14	3.	Total HxCDFs	373.8208	32.86	954.772	11.9830	10.6615	1.32511	2.1371	0.970	1.240	YES	11.331

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	3.	1,2,3,7,8,9-Hx...	389.8157	33.38	341.651	5.9593	5.1814	1.05784	1.3730	1.576	1.240	YES	7.913
2	3.	1,2,3,6,7,8-Hx...	389.8157	33.12	242.059	4.0816	4.0816	1.09425	1.3273	1.328	1.240	NO	8.550
3	3.	1,2,3,4,7,8-Hx...	389.8157	33.03	125.043	2.3507	2.1226	0.98150	1.4798	0.999	1.240	YES	5.941
4	3.	Total HxCDDs	389.8157	32.53	715.697	12.6427	12.6427	1.04453	1.3905	1.143	1.240	NO	24.594
5	3.	Total HxCDDs	389.8157	32.28	385.691	6.8132	6.8132	1.04453	1.3905	1.324	1.240	NO	12.350
6	3.	Total HxCDDs	389.8157	31.77	352.725	6.2308	6.2308	1.04453	1.3905	1.388	1.240	NO	11.505

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,7,8,9-H...	407.7818	36.06	2791.341	42.5579	42.5579	1.23081	1.6965	1.115	1.040	NO	79.195
2	4.	Total HpCDFs	407.7818	35.22	2786.200	38.8209	33.0247	1.34680	1.5504	0.766	1.040	YES	93.663
3	4.	Total HpCDFs	407.7818	35.11	1909.484	26.6054	23.2937	1.34680	1.5504	0.806	1.040	YES	62.653
4	3.	1,2,3,4,6,7,8-H...	407.7818	34.91	9032.793	115.8764	115.87...	1.46280	1.4274	1.074	1.040	NO	260.390

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Calnc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,6,7,8-H...	423.7766	35.74	1776.928	36.3413	36.3413	1.05453	1.8487	1.035	1.040	NO	63.590
2	4.	Total HpCDDs	423.7766	35.15	2221.990	45.4436	45.4436	1.05453	1.8487	1.128	1.040	NO	88.478

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.87	1.00000	372847.03	4000.0000	4000.0000	100.0	4.88138	0.80	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	447892.42	3662.3542	3662.3542	91.6	2.97301	0.78	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.29	19.26	0.99766	3282.26	29.3818	29.3818		1.85777	0.77	NO	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		150.6685	141.4099		1.85777			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	330256.72	3896.1310	3896.1310	97.4	5.36779	0.81	NO	
8	2,3,7,8-TCDD	319.8965	0.500		20.11	1.03464					1.86044		NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		8.5049	8.1212		1.86044			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.12	20.09	0.65529	87494.23	1617.1551	0.0000	101.1	2.45140			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.93	1.02378	320832.96	3362.0232	3362.0232	84.1	4.27571	1.60	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	25.23	25.20	1.09163	1775.00	20.2723	20.2723		3.30743	1.63	NO	
15	2,3,4,7,8-PeCDF	339.8597	0.500		26.73	1.06412					3.39295		NO	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		93.5893	72.2389		3.34965			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		11.9897	10.6510		2.33256			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.63	27.30	0.73445	236509.63	3454.7428	3454.7428	86.4	3.85194	1.57	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500		27.63	0.96030					3.63837		NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		3.9608	2.4584		3.63837			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	231485.07	4000.0000	4000.0000	100.0	3.27992	1.23	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	240515.17	3960.3515	3960.3515	99.0	7.65228	0.54	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.27	32.26	1.31260	3918.90	49.6535	49.6535		2.15751	1.27	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.38	32.38	1.43801	2607.40	30.1554	27.5147		1.96935	1.45	YES	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.86	32.92	1.35233	1191.16	14.6488	10.8686		2.09412	0.70	YES	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500	33.54	33.56	1.19752	343.96	4.7769	4.0667		2.36485	0.89	YES	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		221.4492	211.3637		2.13713			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	216784.87	4141.3910	4141.3910	103.5	3.62613	1.27	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500	33.03	33.04	0.98150	125.04	2.3507	2.1226		1.47980	1.00	YES	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500	33.12	33.11	1.09425	242.06	4.0816	4.0816		1.32733	1.33	NO	
35	,2,3,7,8,9-HxCDD	389.8157	0.500	33.38	33.38	1.05784	341.65	5.9593	5.1814		1.37302	1.58	YES	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379, Task:

#	Name	Trace	Sample Size	RT	Pro.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		38.0783	37.0723		1.39051			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	213158.23	3861.3034	3861.3034	96.5	6.38184	0.44	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	9032.79	115.8764	115.8764		1.42743	1.07	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.06	36.07	1.23081	2791.34	42.5579	42.5579		1.69648	1.12	NO	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		223.8606	214.7527		1.55037			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.73	35.75	0.84836	185468.30	3777.6853	3777.6853	94.4	6.97117	1.08	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.74	35.73	1.05453	1776.93	36.3413	36.3413		1.84874	1.04	NO	
45	Total HpCDDs	423.7766	0.500		0.08	1.05453		81.7849	81.7849		1.84874			
46														
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	277784.14	7114.9170	7114.9170	88.9	8.26767	0.92	NO	
48	OCDF	441.7428	0.500	38.42	38.43	1.48610	14665.19	284.1991	284.1991		2.41388	0.89	NO	
49	OCDD	457.7377	0.500	38.31	38.31	1.14618	4424.23	111.1646	111.1646		3.00773	0.81	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379, Task:

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
1	5	Total TCDFs	303.9016	16.46	646.368	5.7861	5.4005	0.99766	1.8578	0.896	0.770	YES	8.833
2	5	Total TCDFs	303.9016	19.77	385.019	3.4466	2.5599	0.99766	1.8578	0.477	0.770	YES	5.310
3	4	2,3,7,8-TCDF	303.9016	19.29	3282.264	29.3818	29.3818	0.99766	1.8578	0.767	0.770	NO	34.425
4	5	Total TCDFs	303.9016	19.09	279.248	2.4997	~~1.7859~~	0.99766	1.8578	1.477	0.770	YES	3.814
5	5	Total TCDFs	303.9016	18.85	1931.083	17.2865	17.2865	0.99766	1.8578	0.747	0.770	NO	24.479
6	5	Total TCDFs	303.9016	18.64	1458.210	13.0534	13.0534	0.99766	1.8578	0.702	0.770	NO	19.099
7	5	Total TCDFs	303.9016	18.55	1308.052	11.7093	6.6156	0.99766	1.8578	0.326	0.770	YES	16.112
8	5	Total TCDFs	303.9016	18.22	1708.494	15.2939	14.1446	0.99766	1.8578	0.914	0.770	YES	19.806
9	5	Total TCDFs	303.9016	17.98	677.419	6.0640	5.3369	0.99766	1.8578	0.620	0.770	YES	10.674
10	5	Total TCDFs	303.9016	17.90	511.956	4.5829	4.2805	0.99766	1.8578	0.895	0.770	YES	7.534
11	5	Total TCDFs	303.9016	17.61	1453.797	13.0139	13.0139	0.99766	1.8578	0.664	0.770	NO	16.344
12	5	Total TCDFs	303.9016	17.34	3189.387	28.5504	28.5504	0.99766	1.8578	0.745	0.770	NO	41.245

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
1	9	Total TCDDs	319.8965	17.85	432.269	5.0602	5.0602	1.03464	1.8604	0.682	0.770	NO	10.304
2	9	Total TCDDs	319.8965	17.52	239.834	2.8076	2.8076	1.03464	1.8604	0.770	0.770	NO	5.214
3	9	Total TCDDs	319.8965	16.74	54.424	0.6371	~~0.2534~~	1.03464	1.8604	0.209	0.770	YES	2.775

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
1	16	Total F2 PeCD...	339.8597	25.86	472.884	5.4698	~~2.1906~~	1.07787	3.3496	5.367	1.550	YES	6.079
2	14	1,2,3,7,8-PeCDF	339.8597	25.23	1774.997	20.2723	20.2723	1.09163	3.3074	1.630	1.550	NO	15.183
3	16	Total F2 PeCD...	339.8597	25.06	695.755	8.0477	8.0477	1.07787	3.3496	1.640	1.550	NO	6.822
4	16	Total F2 PeCD...	339.8597	24.69	1068.071	12.3542	8.1592	1.07787	3.3496	2.861	1.550	YES	6.746
5	16	Total F2 PeCD...	339.8597	23.92	180.845	2.0918	~~0.9545~~	1.07787	3.3496	4.588	1.550	YES	2.639
6	16	Total F2 PeCD...	339.8597	23.64	2936.260	33.9631	21.2242	1.07787	3.3496	0.613	1.550	YES	32.618
7	16	Total F2 PeCD...	339.8597	23.38	984.761	11.3905	11.3905	1.07787	3.3496	1.723	1.550	NO	9.790

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379, Task:

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	17	Total F1 PeCD...	339.8597	22.45	43.035	0.4978	0.3829	1.07787	2.3326	0.878	1.550	YES	1.904
2	17	Total F1 PeCD...	339.8597	21.79	993.529	11.4919	10.2680	1.07787	2.3326	1.189	1.550	YES	18.339

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	21	Total PeCDDs	355.8546	25.86	124.185	2.1871	1.6251	0.96030	3.6384	0.824	1.550	YES	5.826
2	21	Total PeCDDs	355.8546	25.22	100.708	1.7737	0.8333	0.96030	3.6384	0.400	1.550	YES	3.745

Total HxCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	28	2,3,4,6,7,8-Hx...	373.8208	32.86	1191.155	14.6488	10.8686	1.35233	2.0941	0.697	1.240	YES	11.381
2	30	Total HxCDFs	373.8208	32.71	862.544	10.8254	9.6787	1.32511	2.1371	0.980	1.240	YES	8.871
3	30	Total HxCDFs	373.8208	32.49	897.747	11.2673	9.8907	1.32511	2.1371	0.945	1.240	YES	11.585
4	27	1,2,3,6,7,8-Hx...	373.8208	32.38	2607.405	30.1554	27.5147	1.43801	1.9693	1.455	1.240	YES	30.439
5	26	1,2,3,4,7,8-Hx...	373.8208	32.27	3918.903	49.6535	49.6535	1.31260	2.1575	1.270	1.240	NO	42.439
6	30	Total HxCDFs	373.8208	31.85	498.132	6.2518	6.2518	1.32511	2.1371	1.272	1.240	NO	7.576
7	30	Total HxCDFs	373.8208	31.64	726.854	9.1224	9.1224	1.32511	2.1371	1.123	1.240	NO	8.190
8	30	Total HxCDFs	373.8208	31.47	245.137	3.0766	2.6454	1.32511	2.1371	0.908	1.240	YES	2.786
9	30	Total HxCDFs	373.8208	31.24	3898.659	48.9305	48.9305	1.32511	2.1371	1.311	1.240	NO	38.997
10	30	Total HxCDFs	373.8208	31.03	2145.248	26.9241	26.9241	1.32511	2.1371	1.341	1.240	NO	22.111
11	30	Total HxCDFs	373.8208	33.61	463.448	5.8165	5.8165	1.32511	2.1371	1.180	1.240	NO	5.678
12	29	1,2,3,7,8,9-Hx...	373.8208	33.54	343.959	4.7769	4.0667	1.19752	2.3648	0.891	1.240	YES	5.511

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379, Task:

Total HxCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
1	35	1,2,3,7,8,9-Hx...	389.8157	33.38	341.651	5.9593	5.1814	1.05784	1.3730	1.576	1.240	YES	7.913
2	34	1,2,3,6,7,8-Hx...	389.8157	33.12	242.059	4.0816	4.0816	1.09425	1.3273	1.328	1.240	NO	8.550
3	33	1,2,3,4,7,8-Hx...	389.8157	33.03	125.043	2.3507	2.1226	0.98150	1.4798	0.999	1.240	YES	5.941
	36	Total HxCDDs	389.8157	32.53	715.697	12.6427	12.6427	1.04453	1.3905	1.143	1.240	NO	24.594
	36	Total HxCDDs	389.8157	32.28	385.691	6.8132	6.8132	1.04453	1.3905	1.324	1.240	NO	12.350
	36	Total HxCDDs	389.8157	31.77	352.725	6.2308	6.2308	1.04453	1.3905	1.388	1.240	NO	11.505

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N

Total HpCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
	40	1,2,3,4,7,8,9-H...	407.7818	36.06	2791.341	42.5579	42.5579	1.23081	1.6965	1.116	1.040	NO	79.195
	41	Total HpCDFs	407.7818	35.23	2786.200	38.8209	33.0247	1.34680	1.5504	0.766	1.040	YES	93.663
	41	Total HpCDFs	407.7818	35.11	1909.484	26.6054	23.2937	1.34680	1.5504	0.806	1.040	YES	62.653
	39	1,2,3,4,6,7,8-H...	407.7818	34.91	9032.793	115.8764	115.87...	1.46280	1.4274	1.074	1.040	NO	260.390

Total HpCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRatio	Ratio Flag	S/N
1	44	1,2,3,4,6,7,8-H...	423.7766	35.74	1776.928	36.3413	36.3413	1.05453	1.8487	1.035	1.040	NO	63.590
2	45	Total HpCDDs	423.7766	35.16	2221.990	45.4436	45.4436	1.05453	1.8487	1.128	1.040	NO	88.478

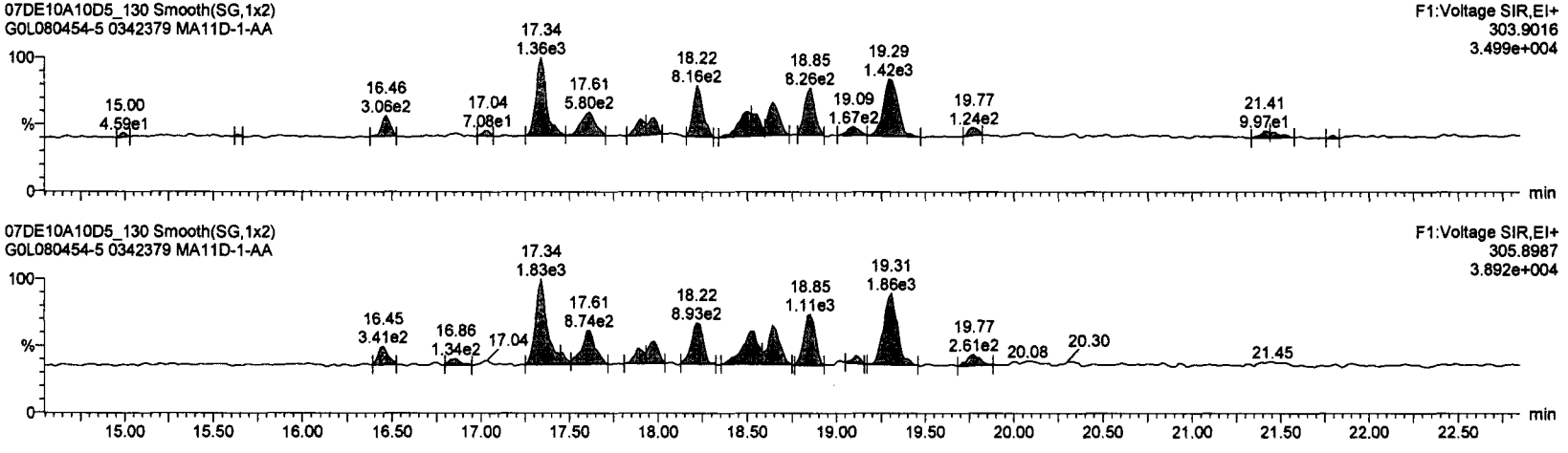
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

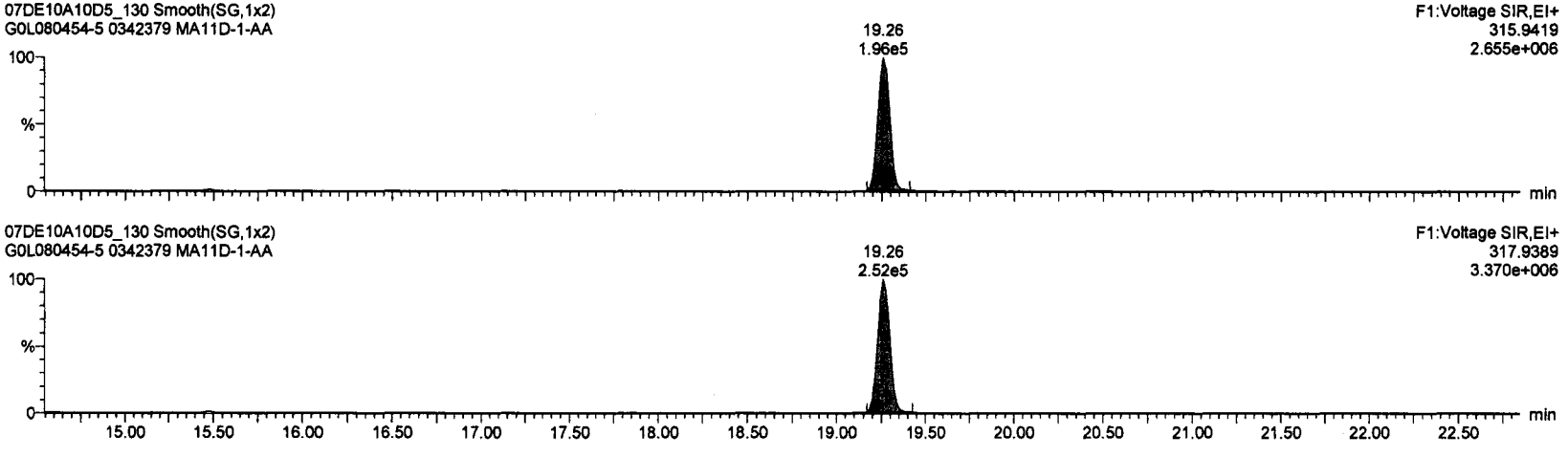
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

TCDFs



13C-TCDF



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

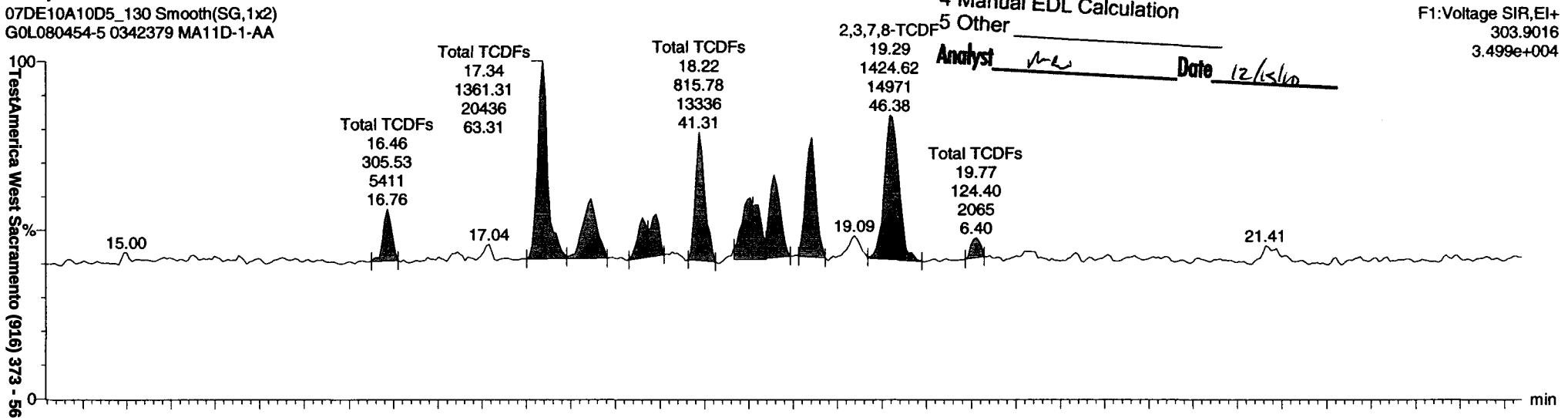
Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:39:54 Pacific Standard Time

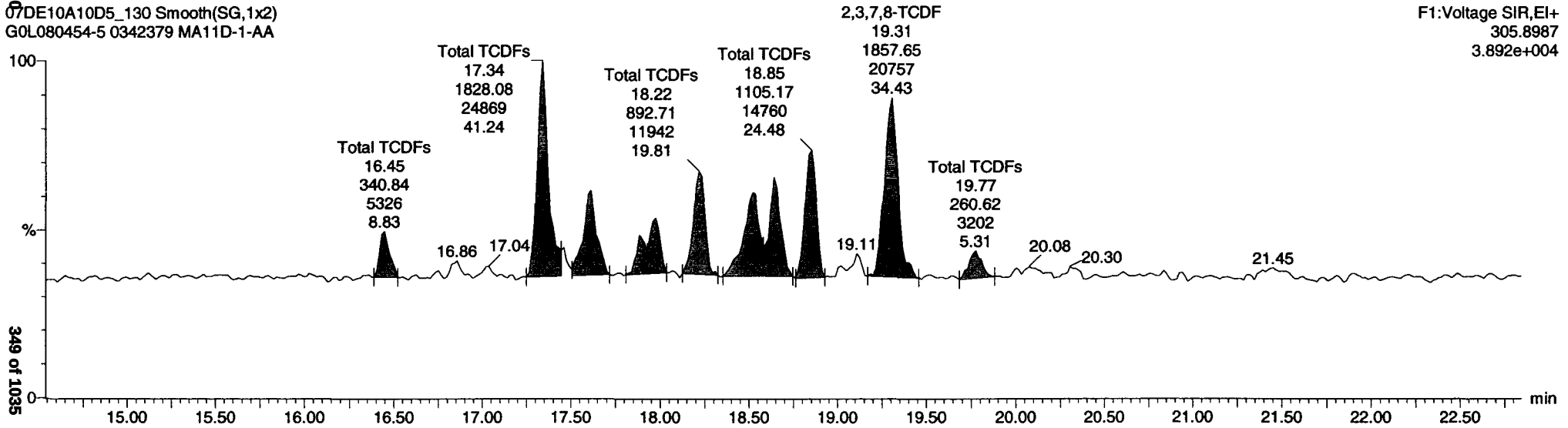
Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Compound Name: Total TCDFs, Chrom. Trace: 303.9016

Sample Name: 07DE10A10D5_130

MANUAL EDIT CODES
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____
Analyst _____ Date 12/15/10





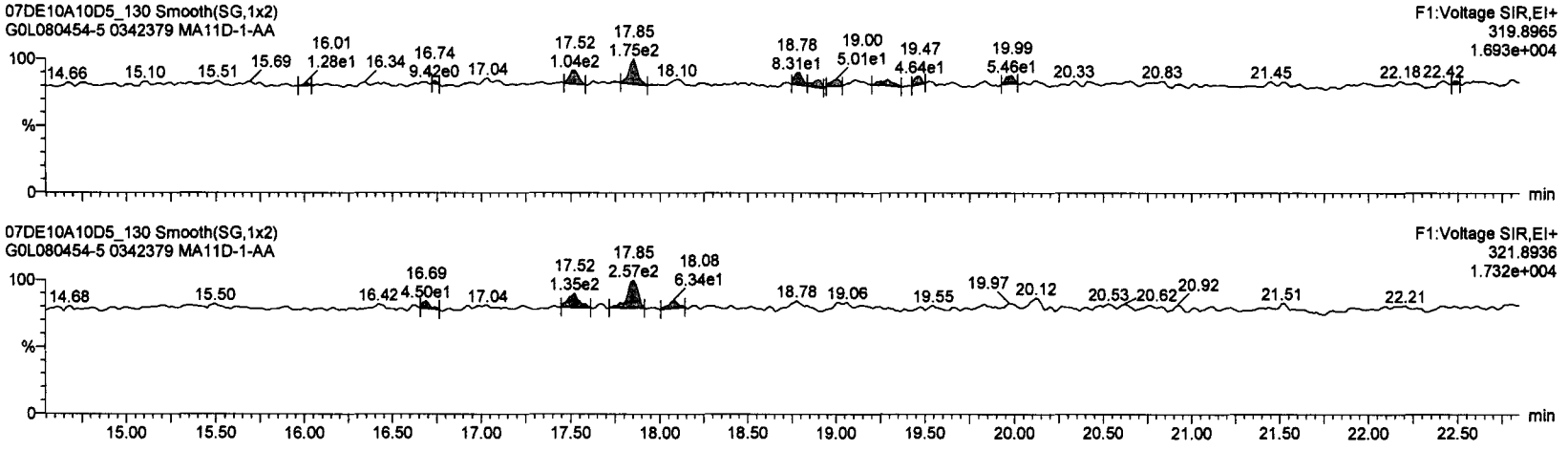
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

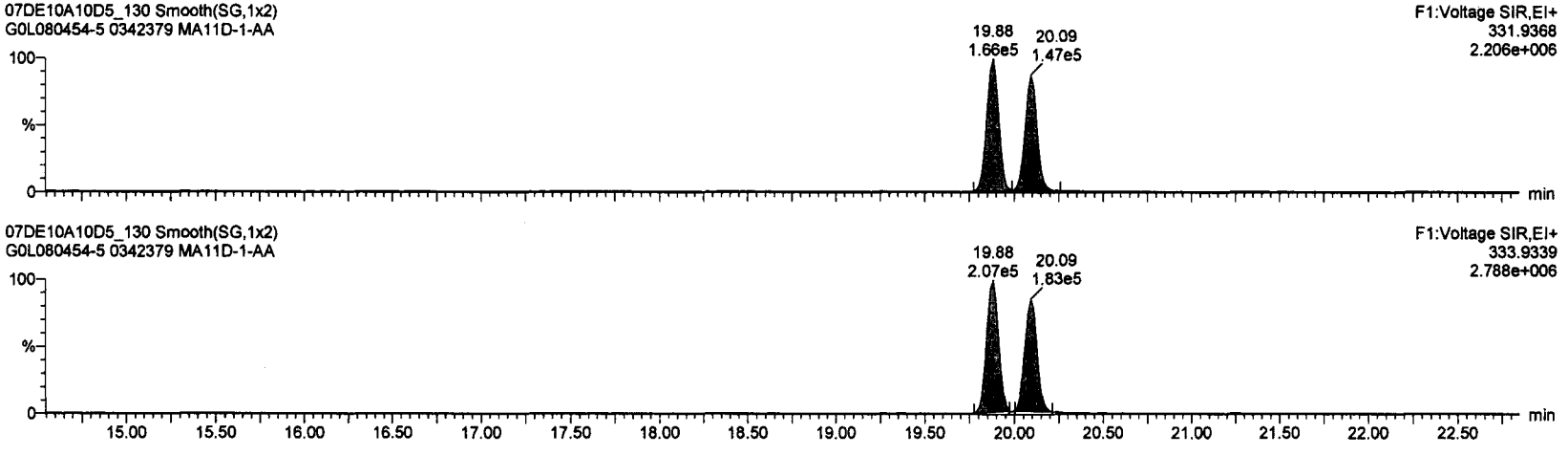
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

TCDDs



13C-TCDDs



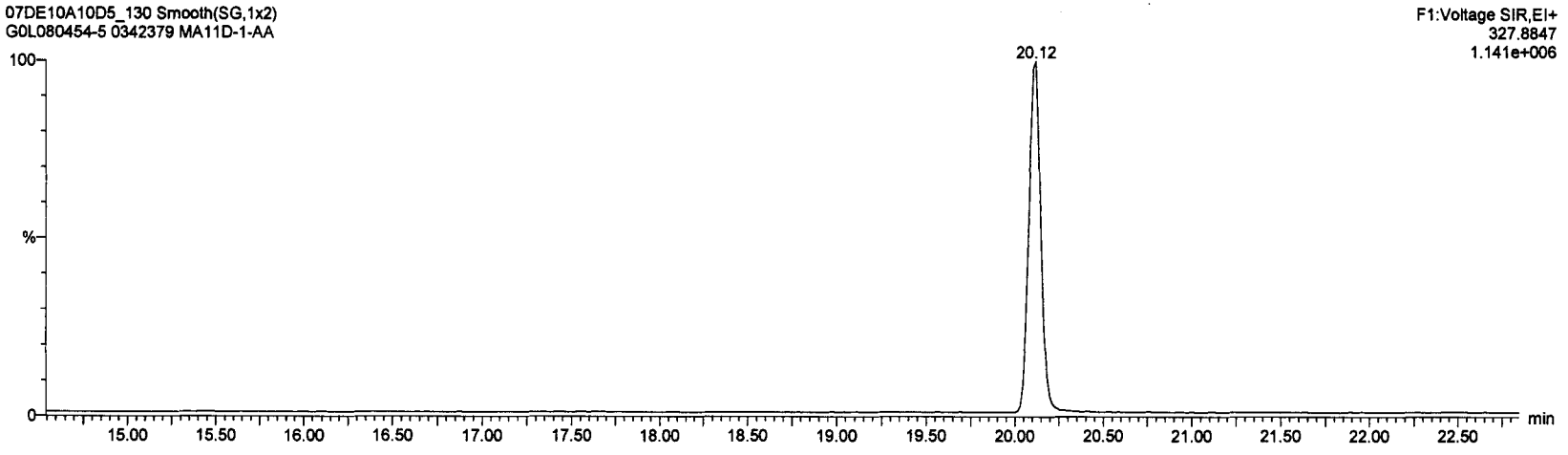
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

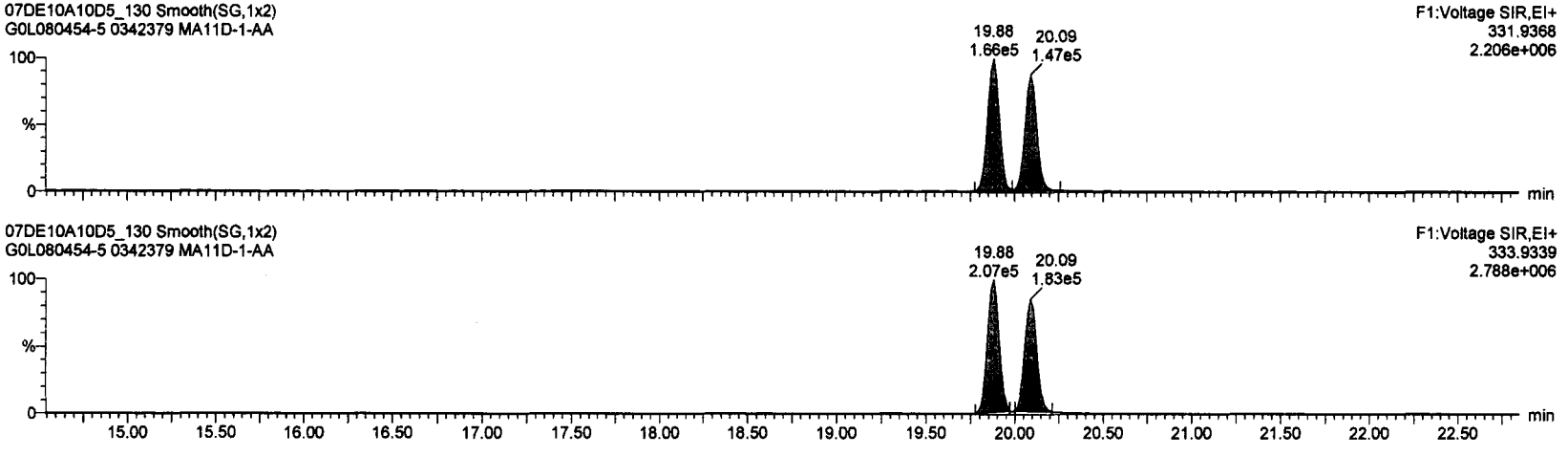
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

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



13C-TCDDs



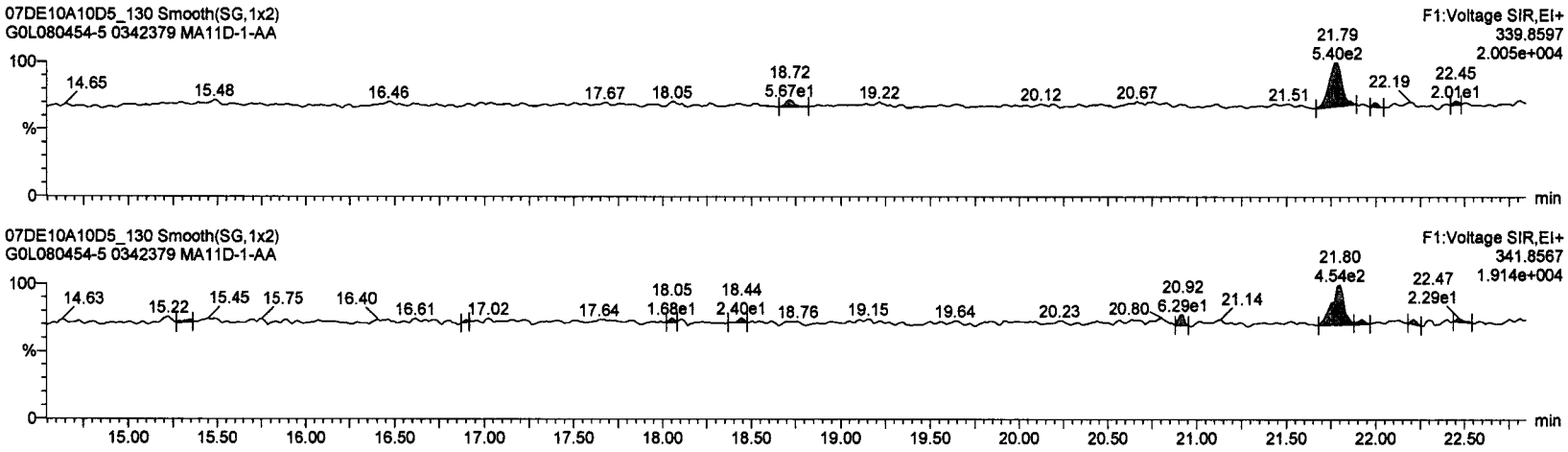
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

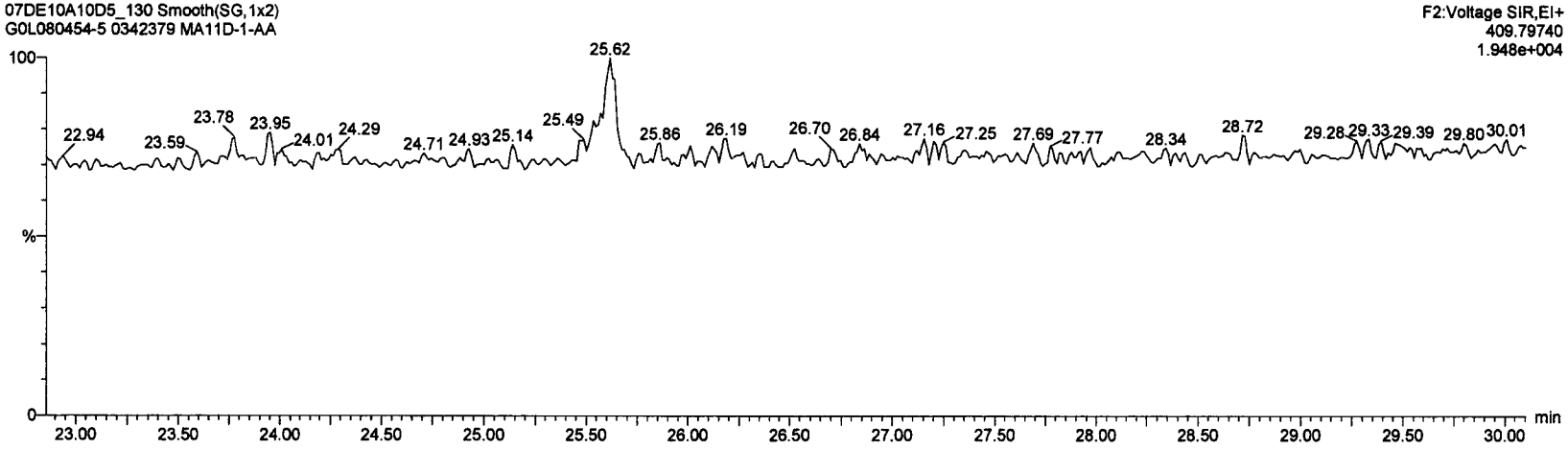
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

F1 PeCDFs



F1 PeCDF PCDPE



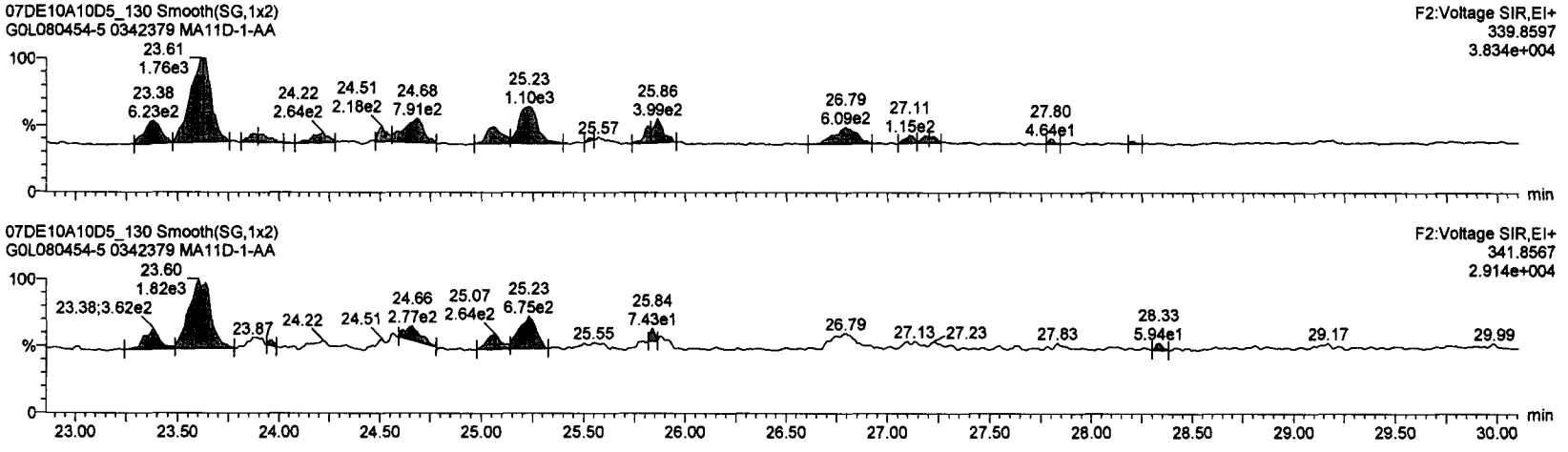
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

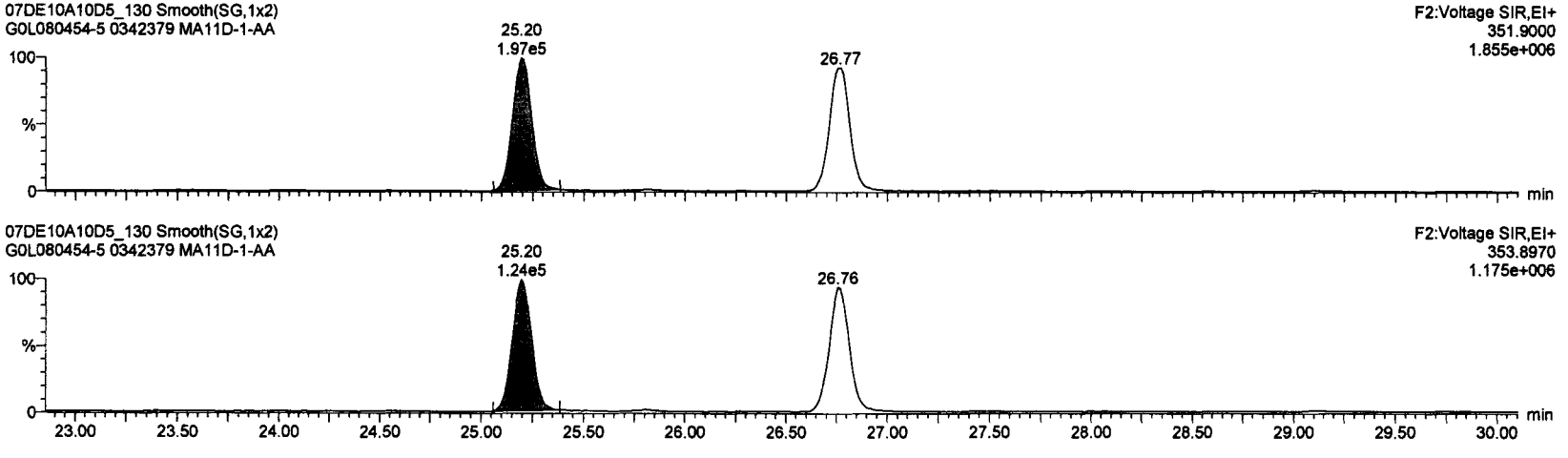
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

PeCDFs



13C-PeCDFs



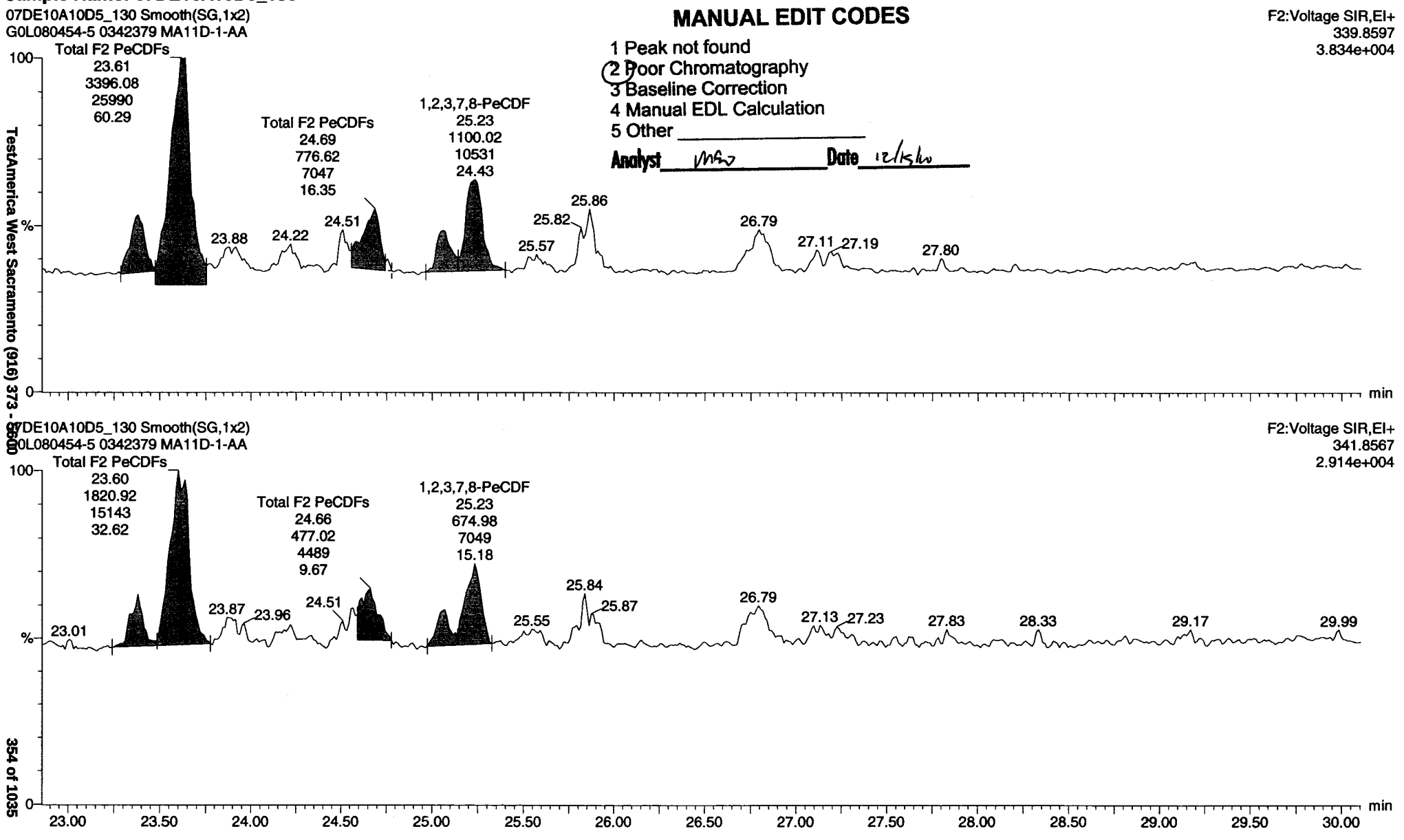
G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:39:54 Pacific Standard Time

Compound Name: Total F2 PeCDFs, Chrom. Trace: 339.8597

Sample Name: 07DE10A10D5_130



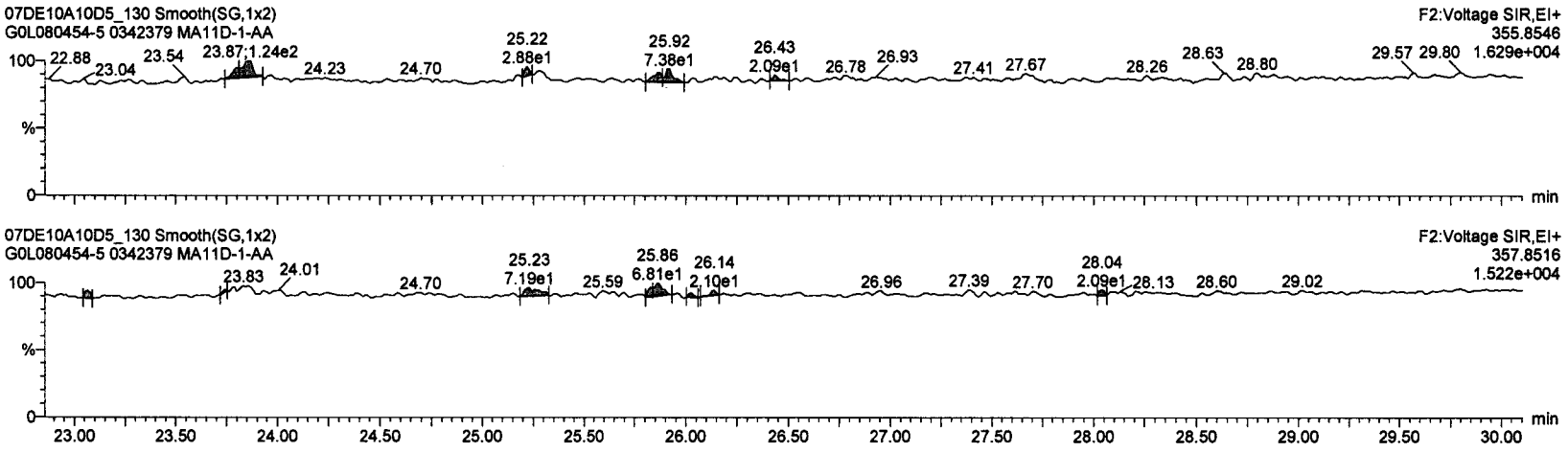
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

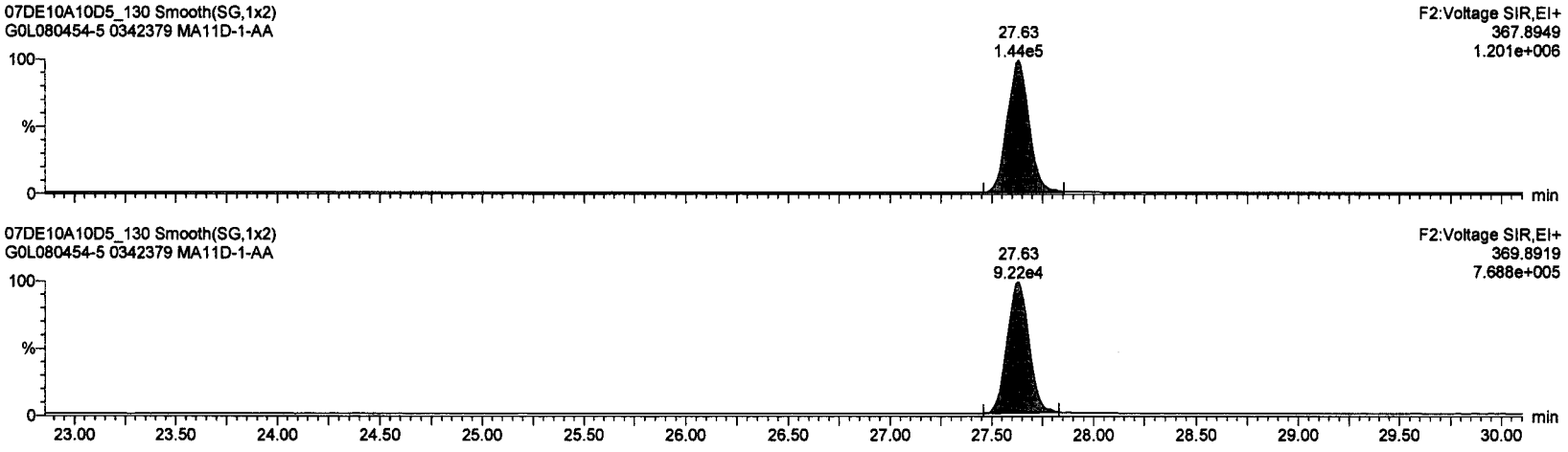
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

PeCDDs



13C-PeCDD



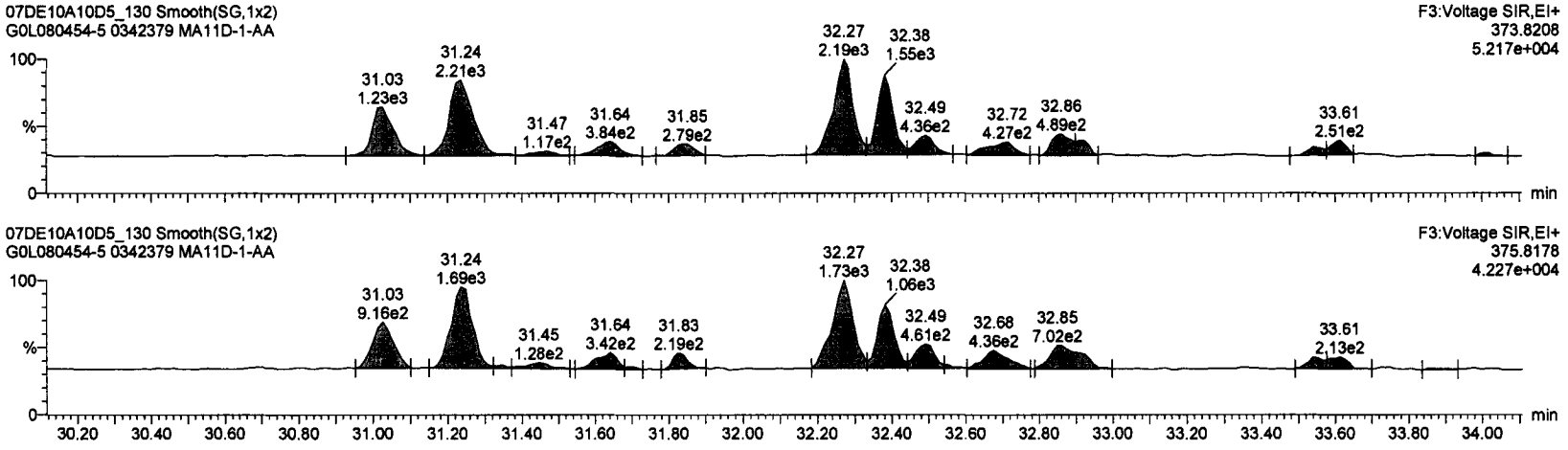
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

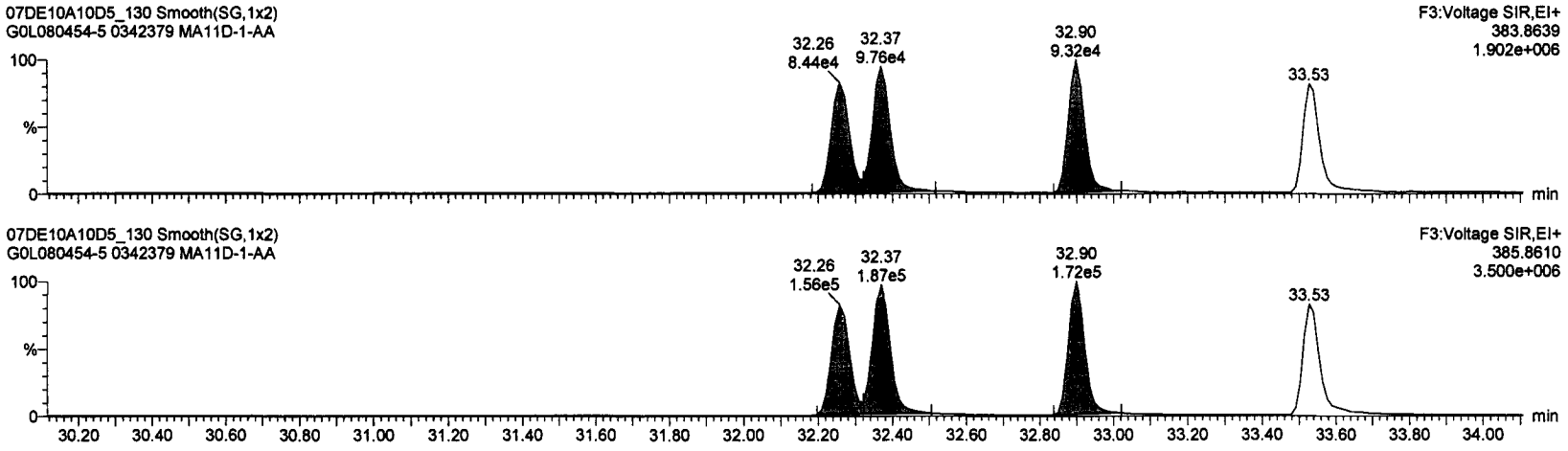
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

HxCDFs



13C-HxCDFs



Quantify Compound Report **MassLynx 4.1 SCN 714 Desktop**

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:39:54 Pacific Standard Time

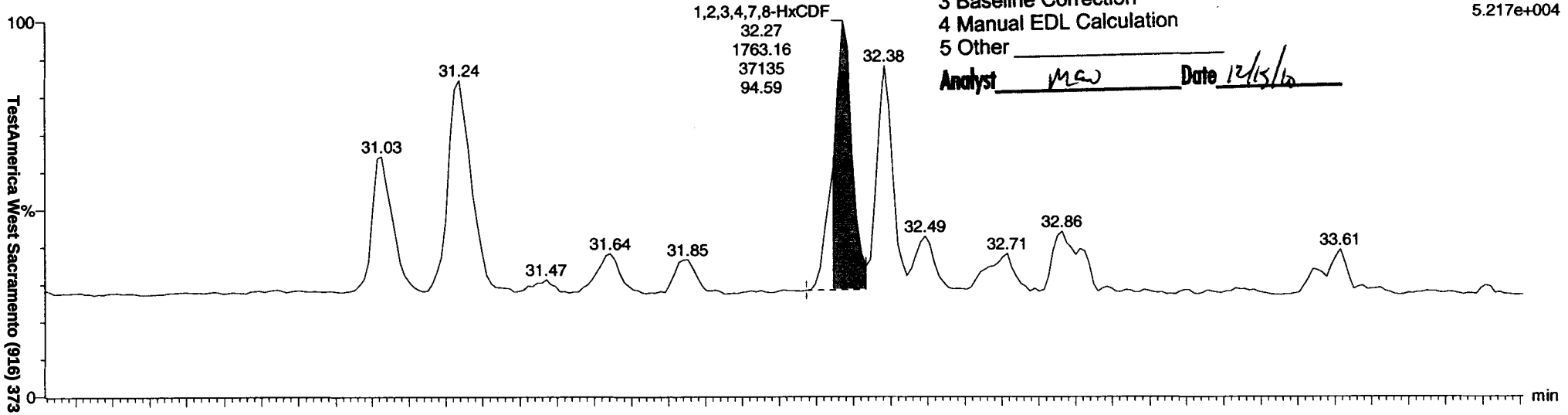
Compound Name: 1,2,3,4,7,8-HxCDF, Chrom. Trace: 373.8208

Sample Name: 07DE10A10D5_130

MANUAL EDIT CODES
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____
Analyst MCW Date 12/15/10

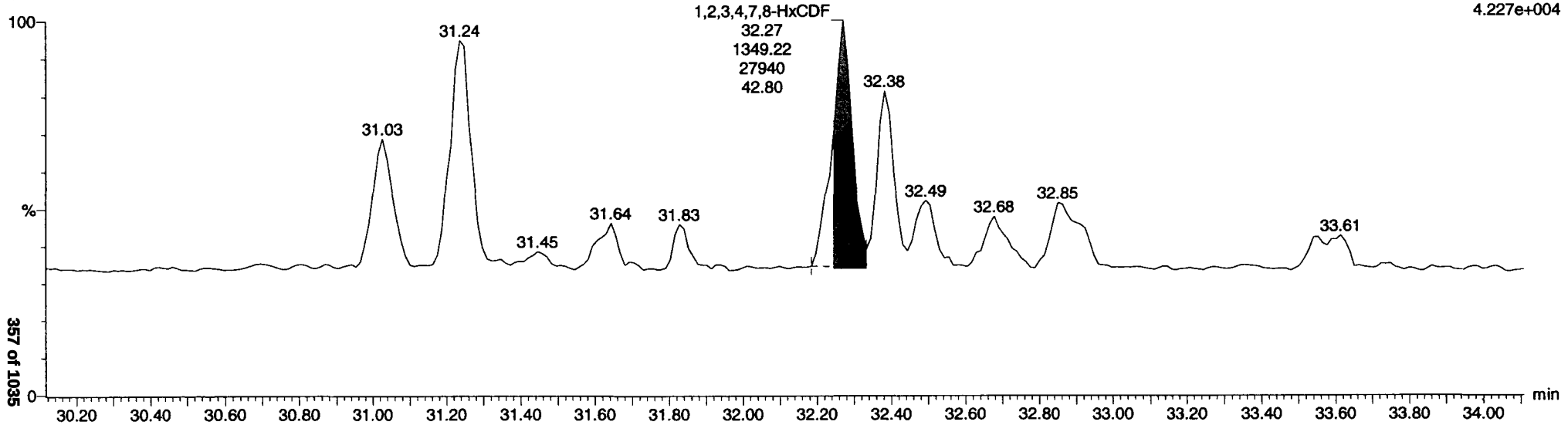
07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
373.8208
5.217e+004



07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
375.8178
4.227e+004



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:39:54 Pacific Standard Time

Compound Name: 2,3,4,6,7,8-HxCDF, Chrom. Trace: 373.8208

Sample Name: 07DE10A10D5_130

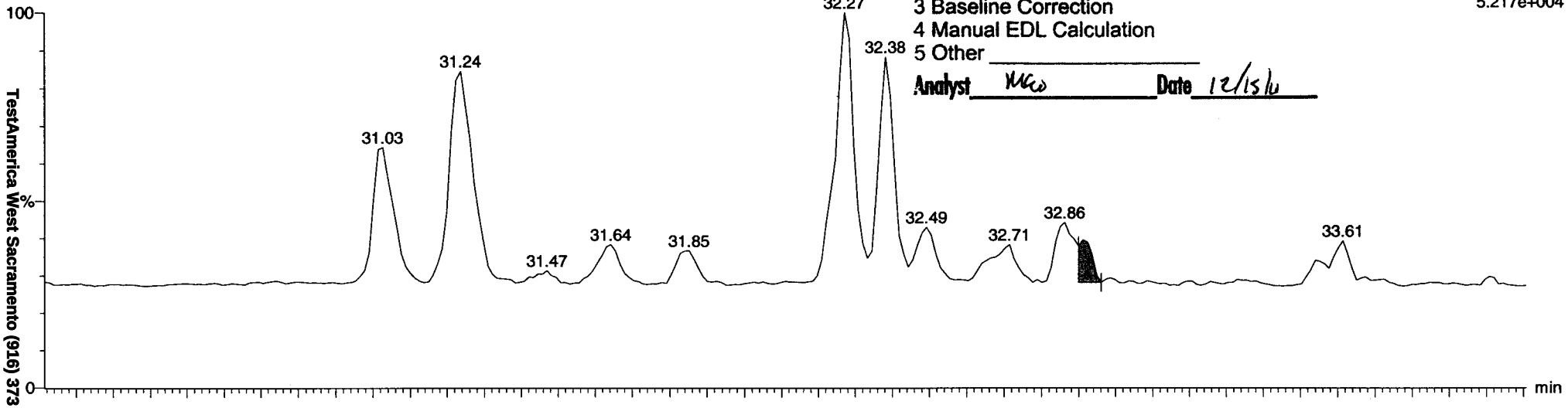
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MGW Date 12/15/10

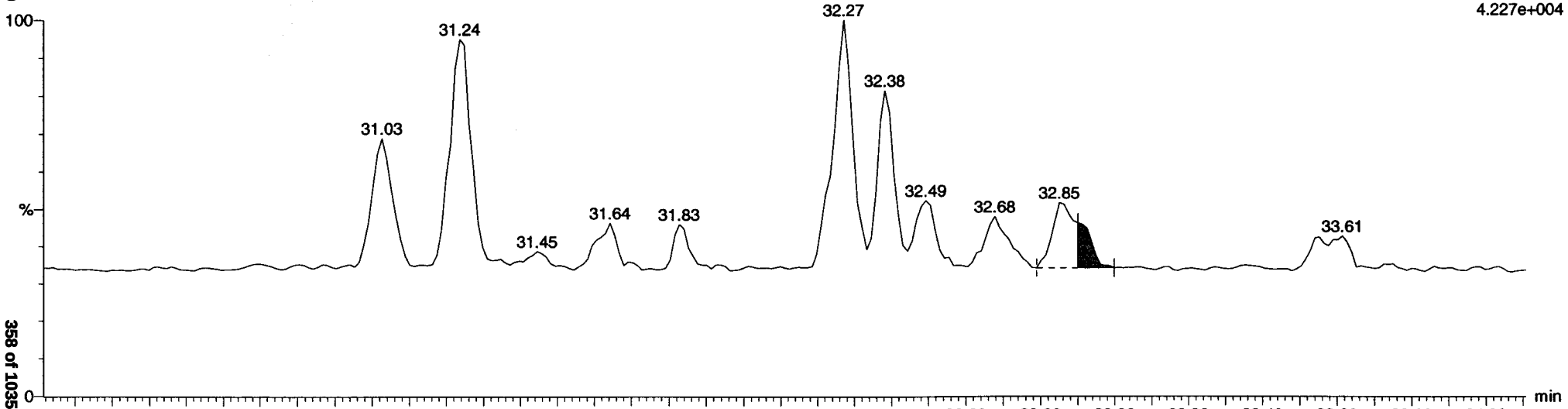
07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
373.8208
5.217e+004



07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
375.8178
4.227e+004



TestAmerica West Sacramento (916) 373 - 5600

GL080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 15:36:00 Pacific Standard Time
Printed: Wednesday, December 15, 2010 15:39:54 Pacific Standard Time

Compound Name: Total HxCDFs, Chrom. Trace: 373.8208

Sample Name: 07DE10A10D5_130

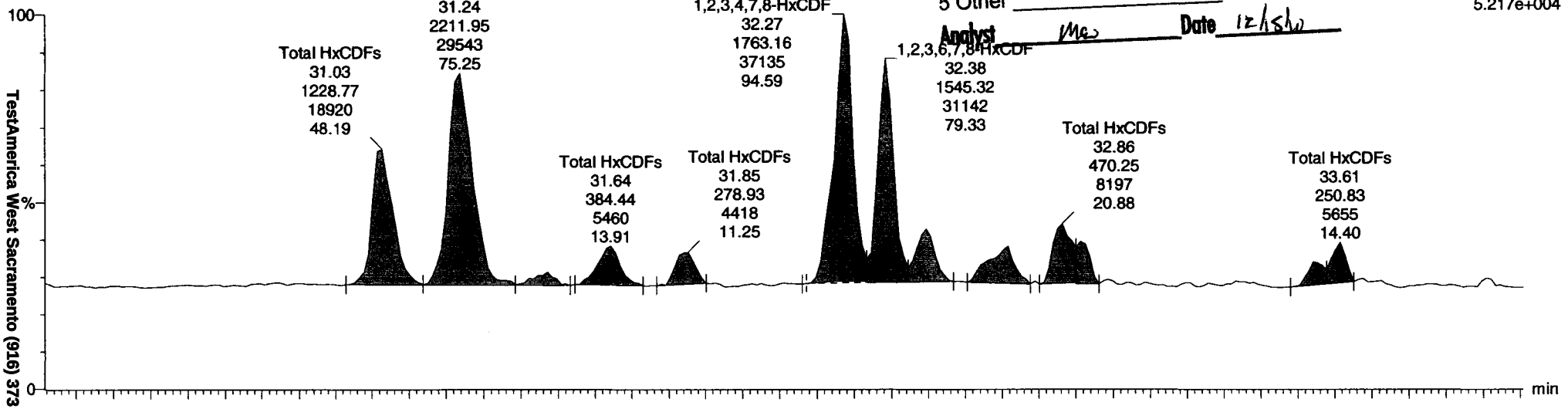
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MC Date 12/15/10

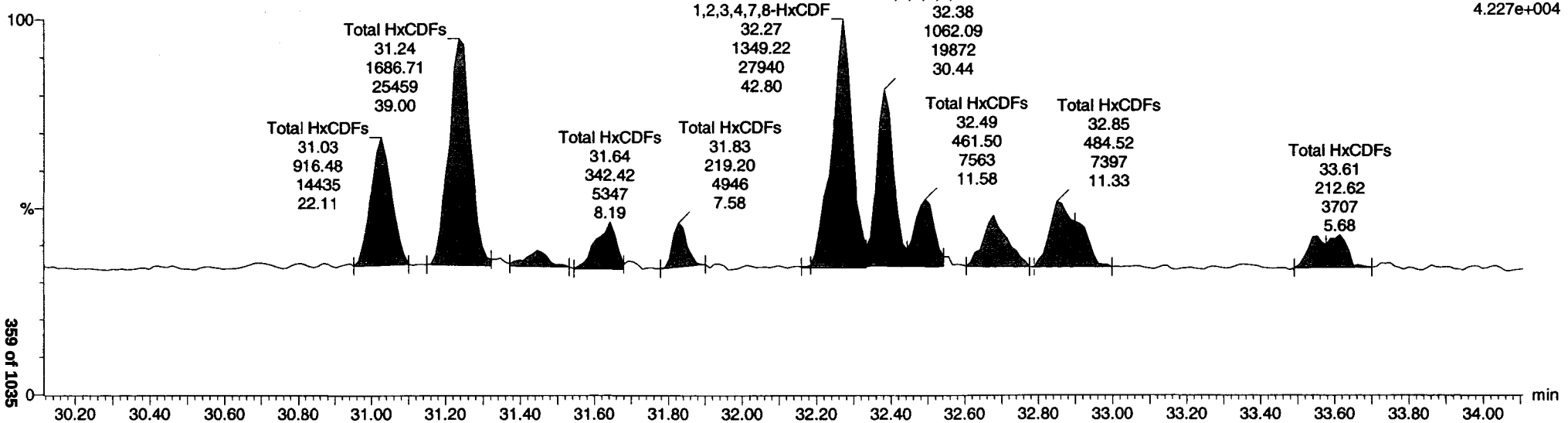
07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
373.8208
5.217e+004



07DE10A10D5_130 Smooth(SG,1x2)
G0L080454-5 0342379 MA11D-1-AA

F3:Voltage SIR,EI+
375.8178
4.227e+004



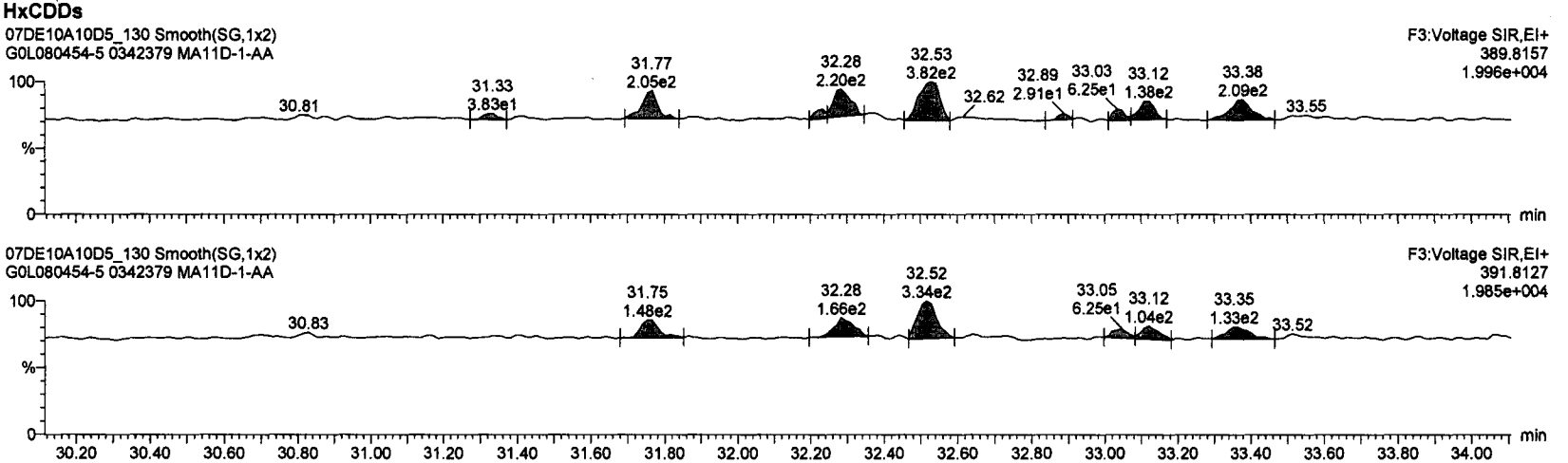
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

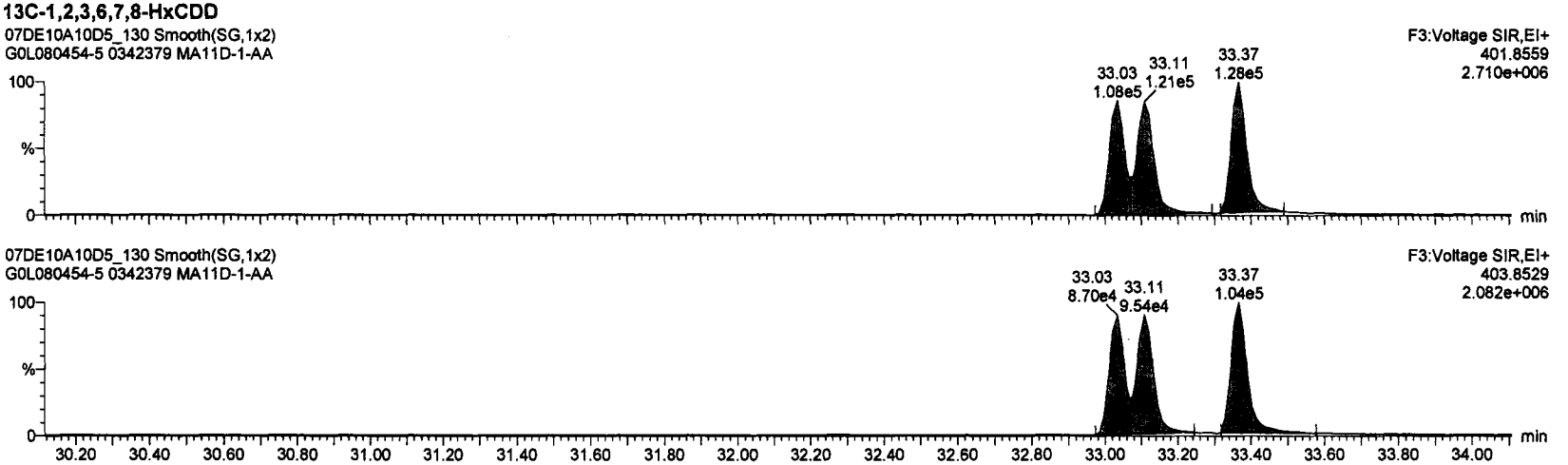
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



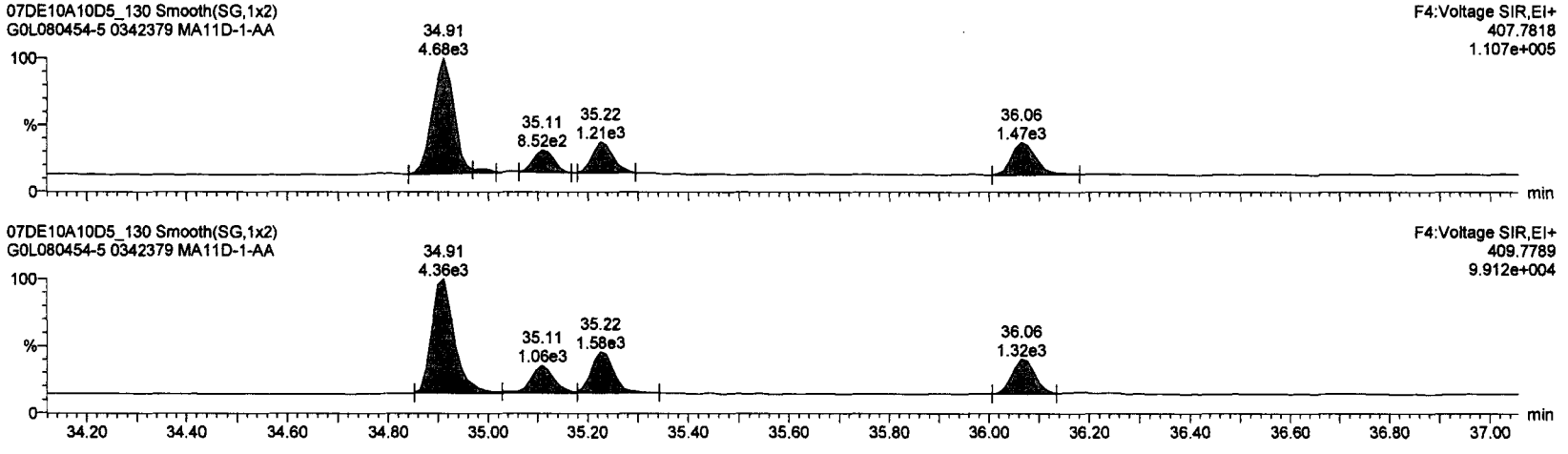
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

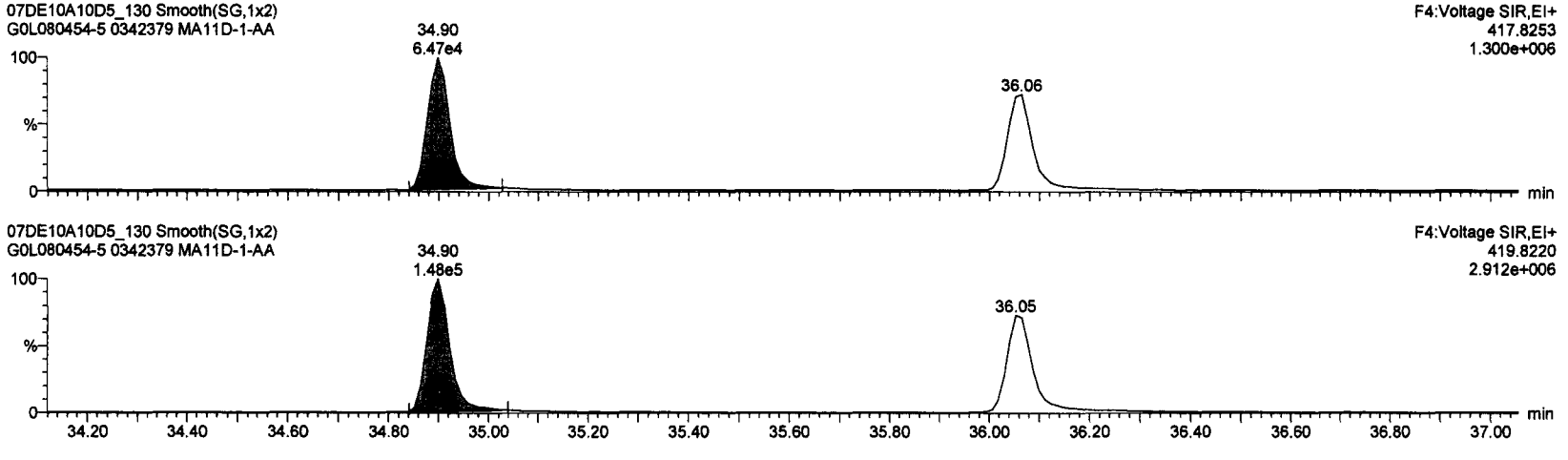
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

HpCDFs



13C-HpCDFs



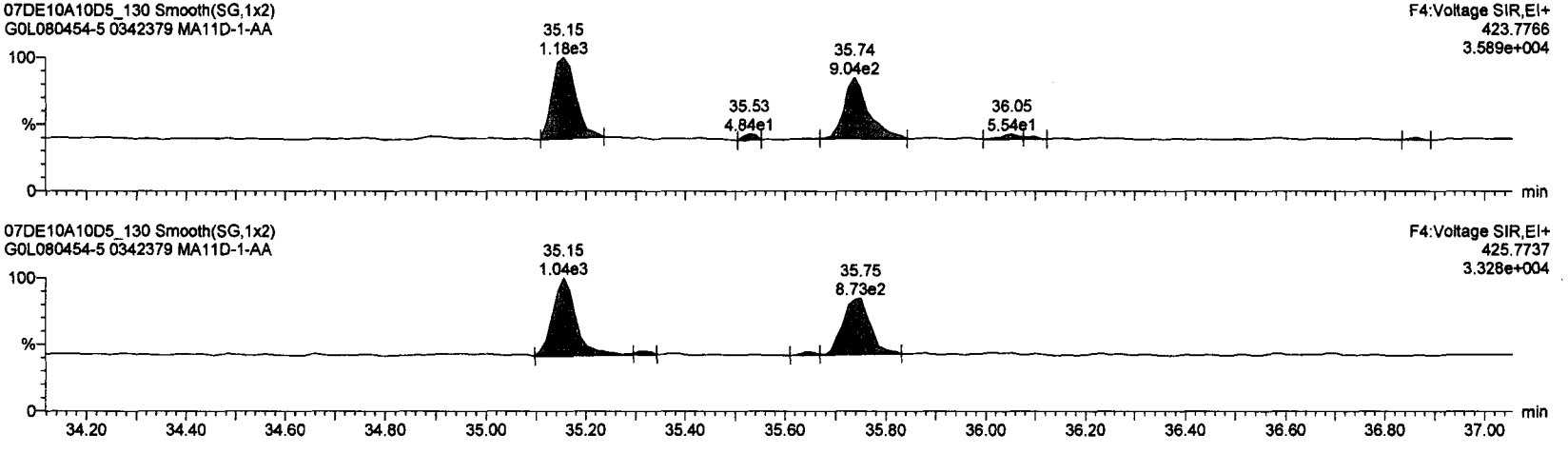
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

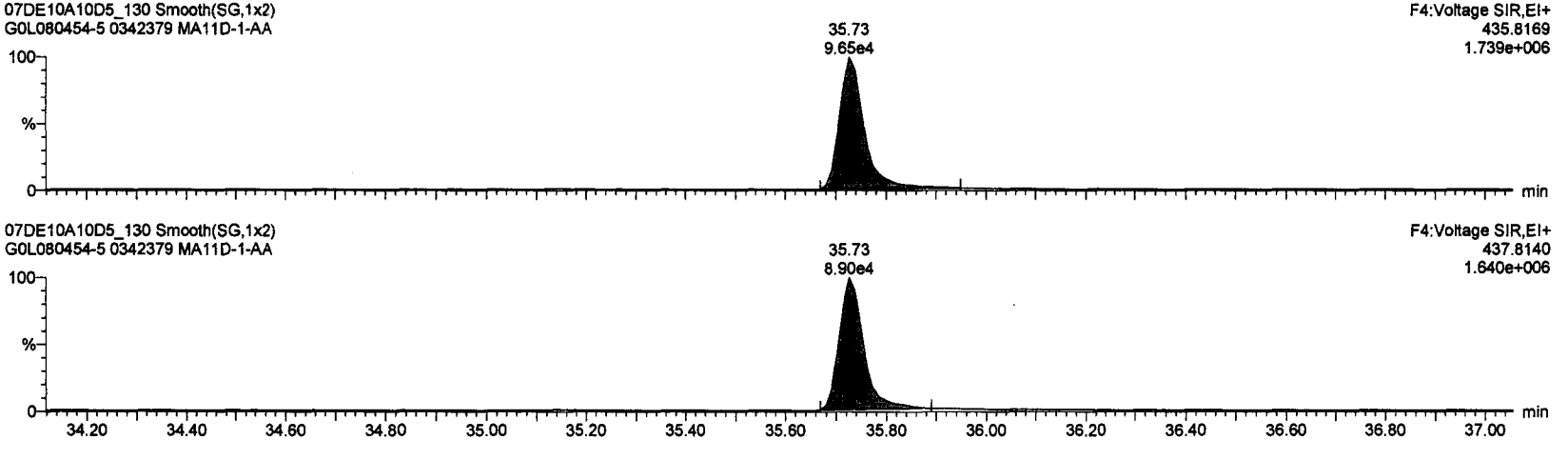
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



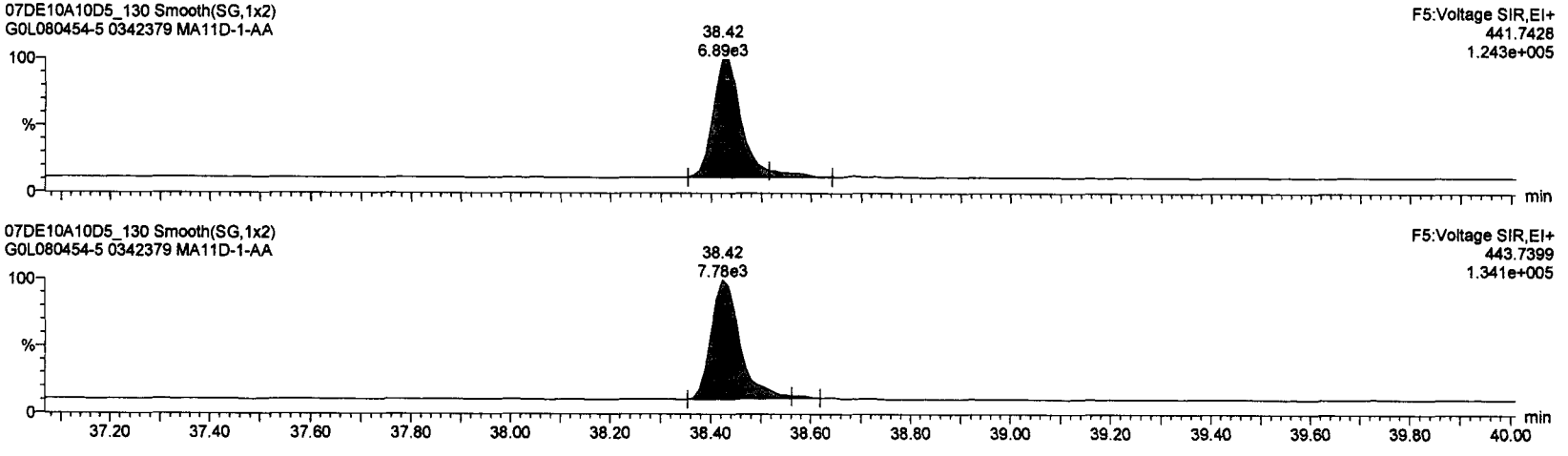
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

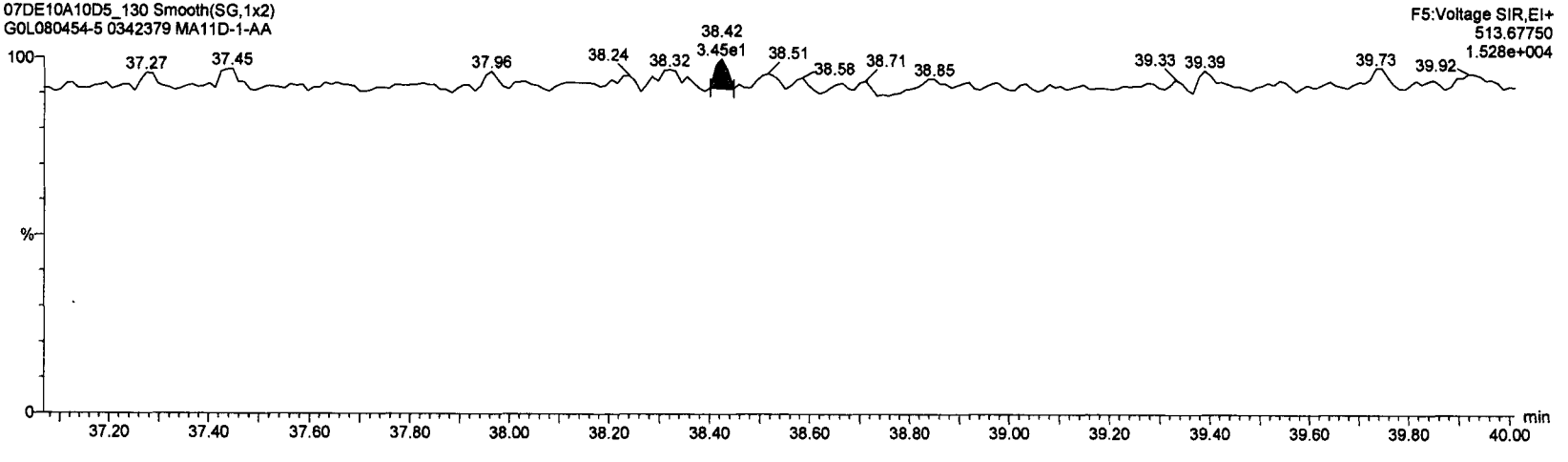
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

OCDFs



OCDF PCDPE



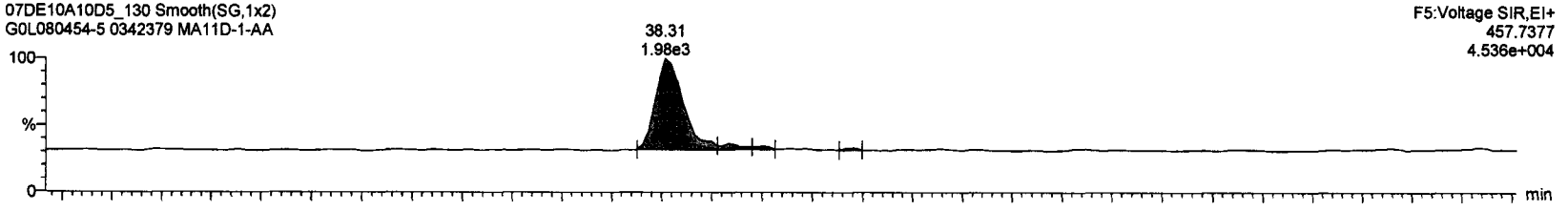
Quantify Sample Report **MassLynx 4.1**

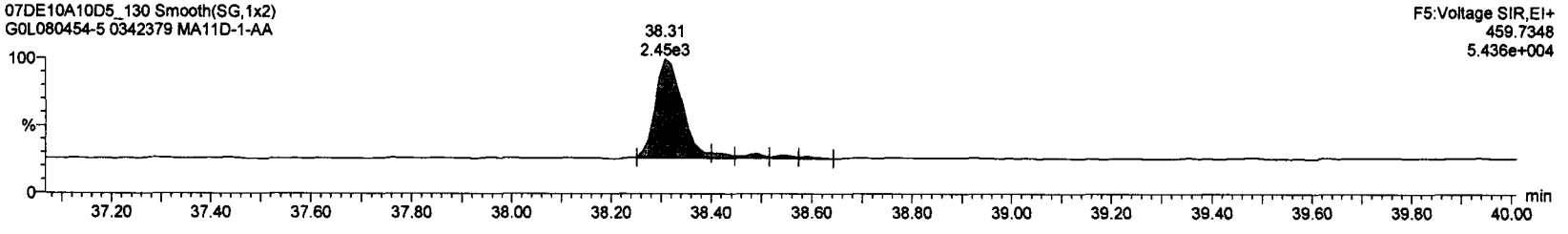
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

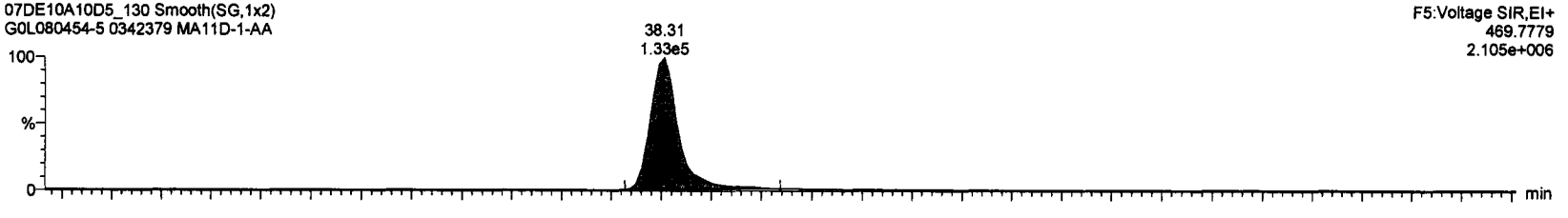
Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

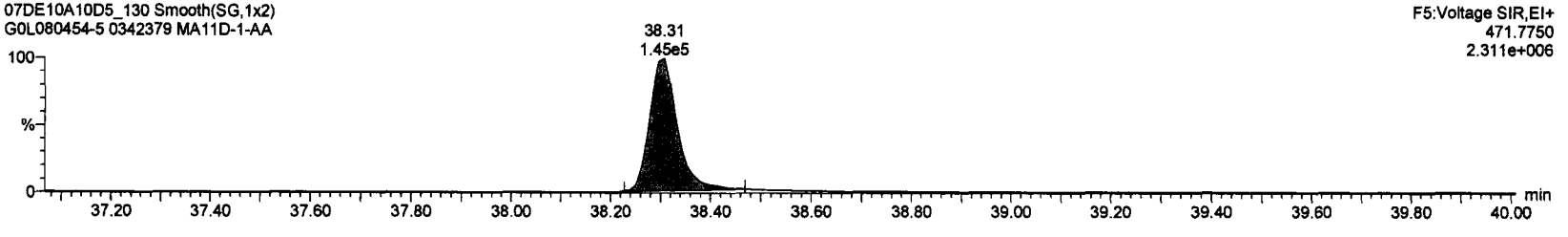
OCDD





13C-OCDD





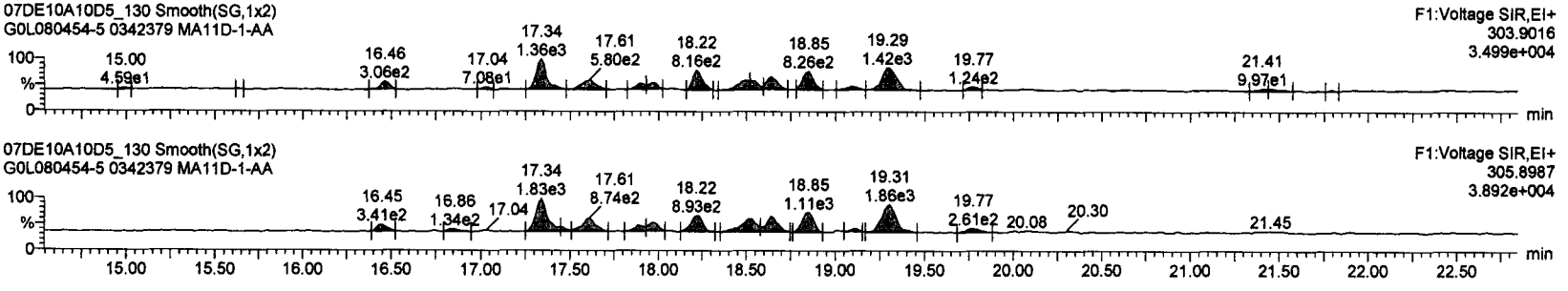
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

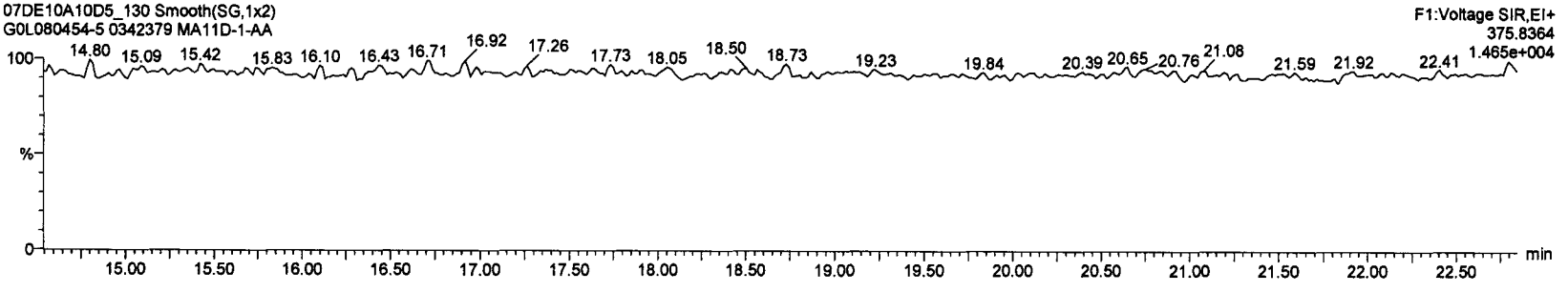
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

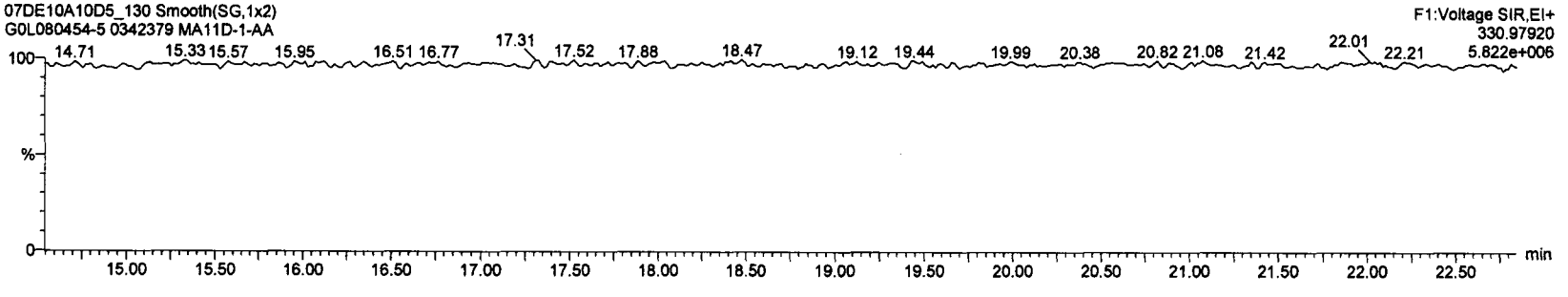
TCDFs



TCDF PCDPE



Function 1 PFK



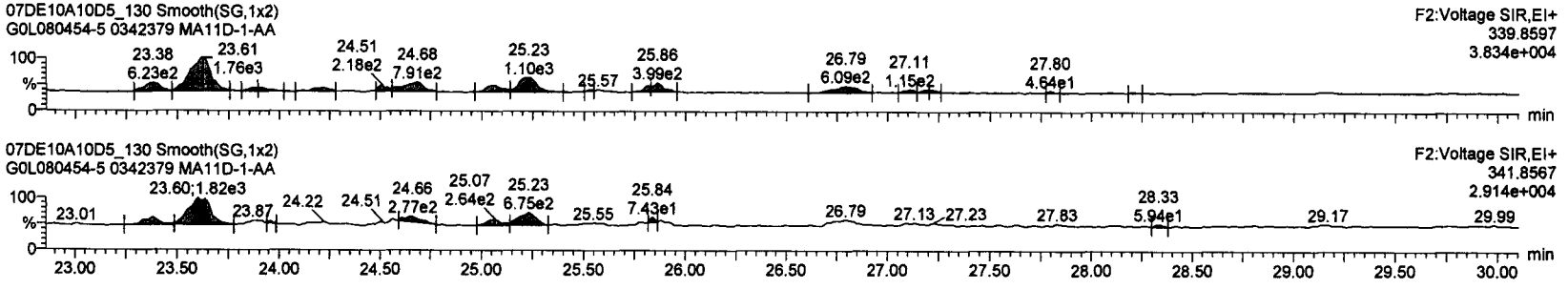
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

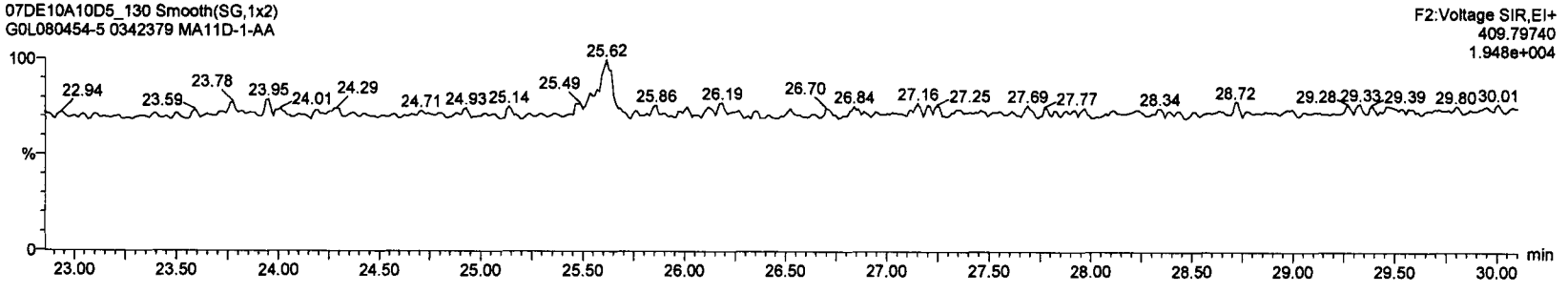
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

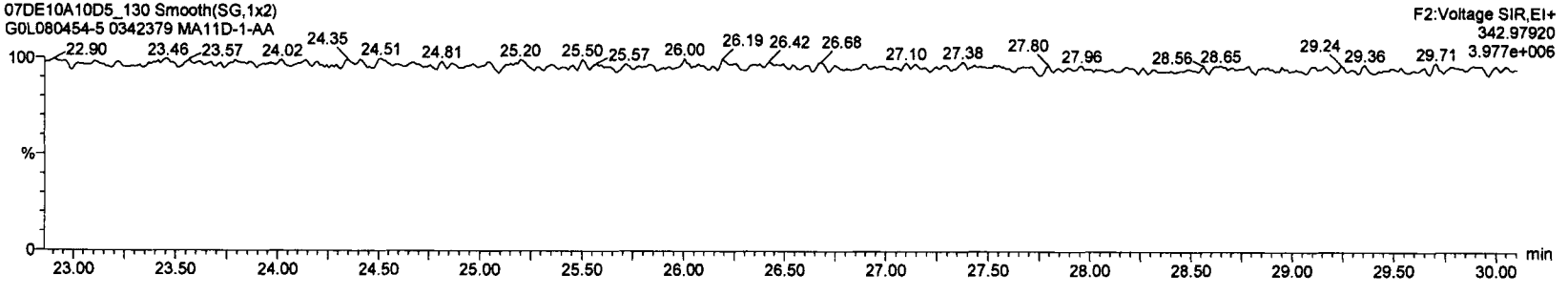
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



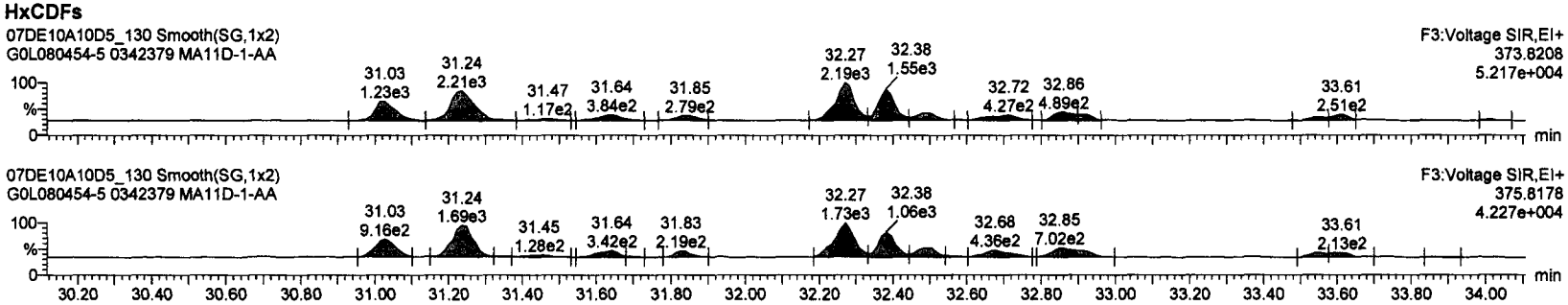
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

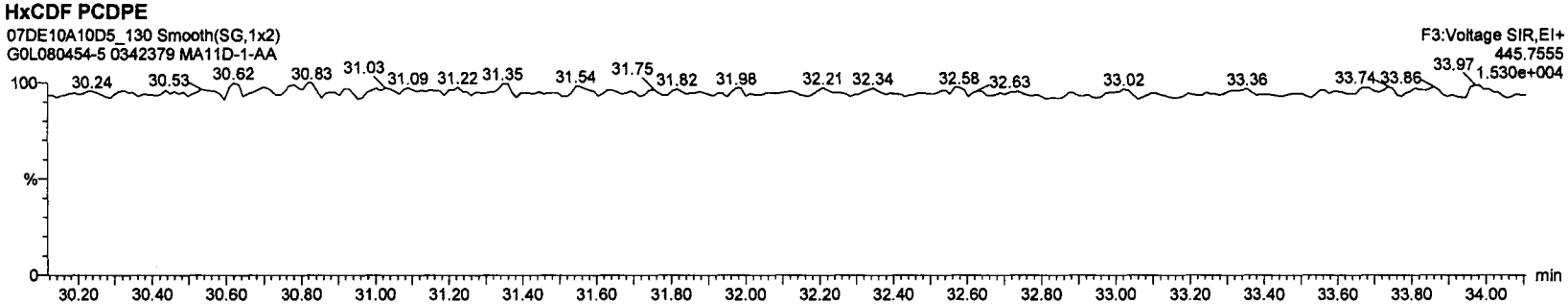
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

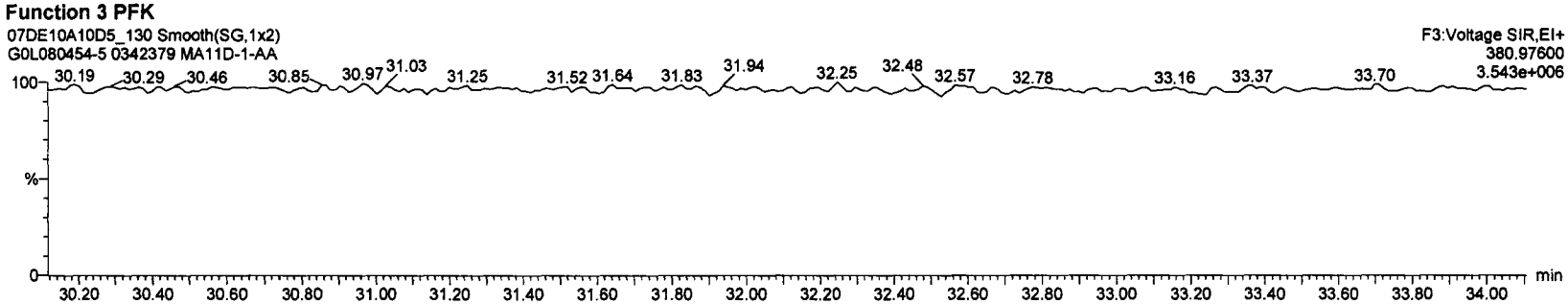
HxCDFs



HxCDF PCDPE



Function 3 PFK



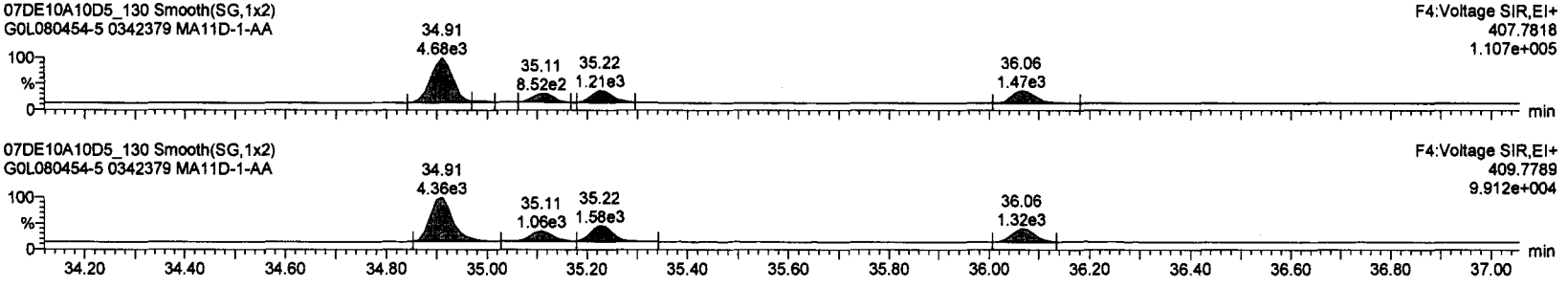
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

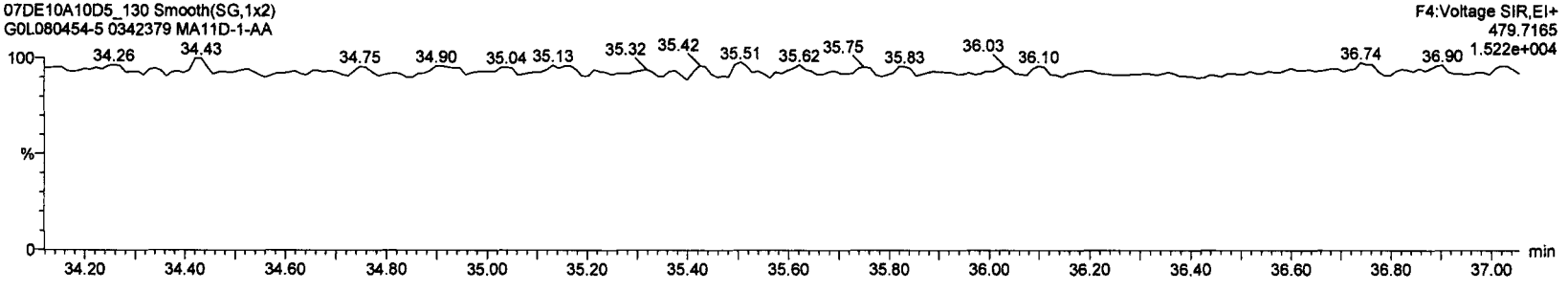
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

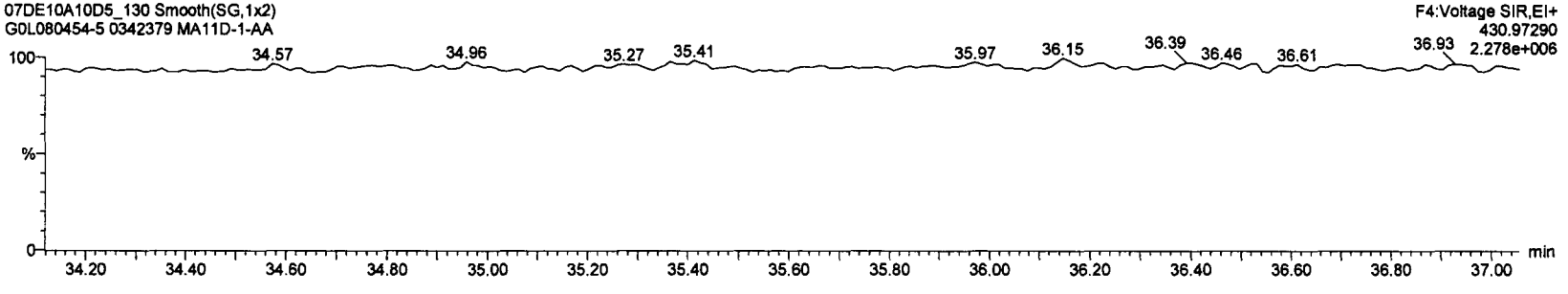
HpCDFs



HpCDF PCDPE



Function 4 PFK



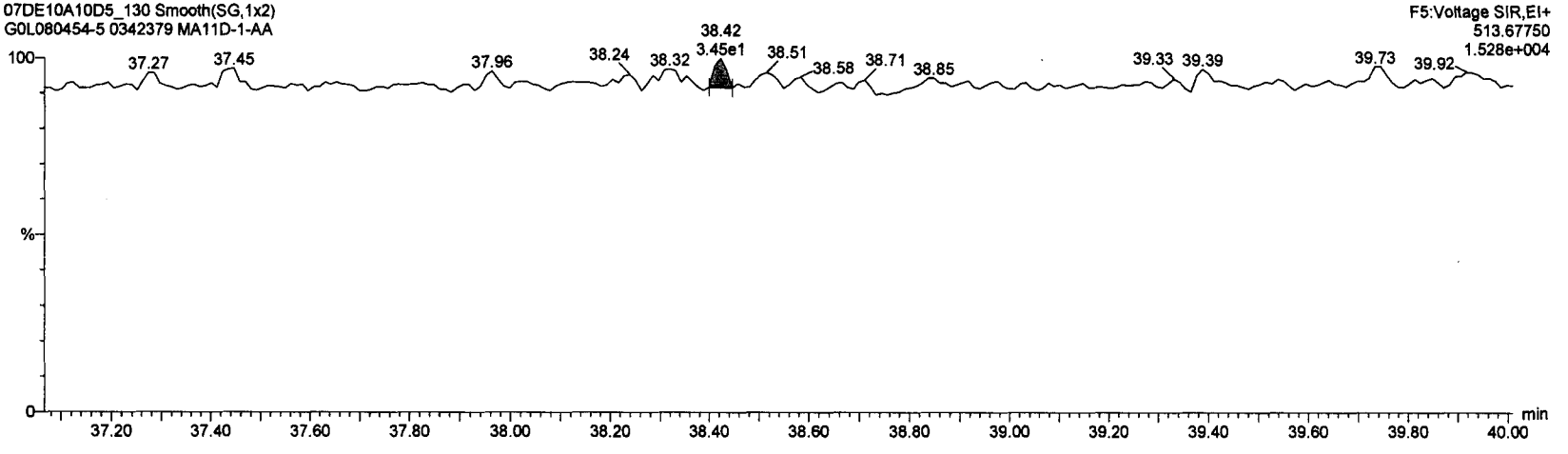
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

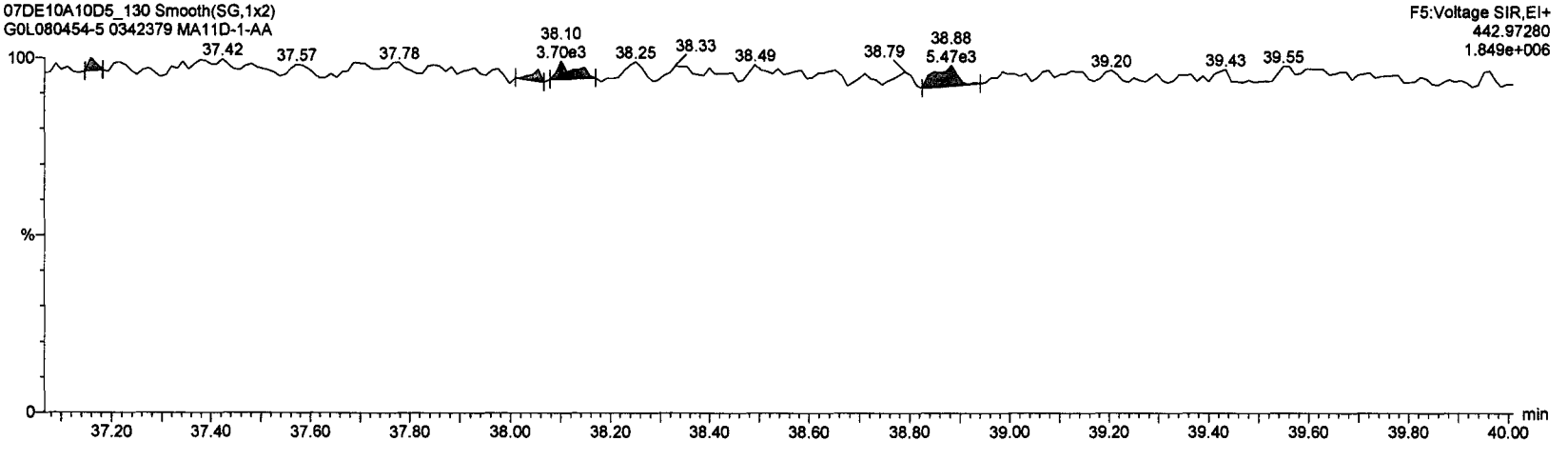
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_130, Date: 11-Dec-2010, Time: 19:06:42, ID: MA11D-1-AA, Description: G0L080454-5 0342379

OCDF PCDPE



Function 5 PFK



Run text: MA11D-1-AA Sample text: MA11D-1-AA :G0L080454-5
Run #8 Filename: 14DE10C5D2 S: 7 I: 1 Results: 14DE10C5D2DB225AIRM
Acquired: 15-DEC-10 00:34:39 Processed: 15-DEC-10 09:39:50
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 g

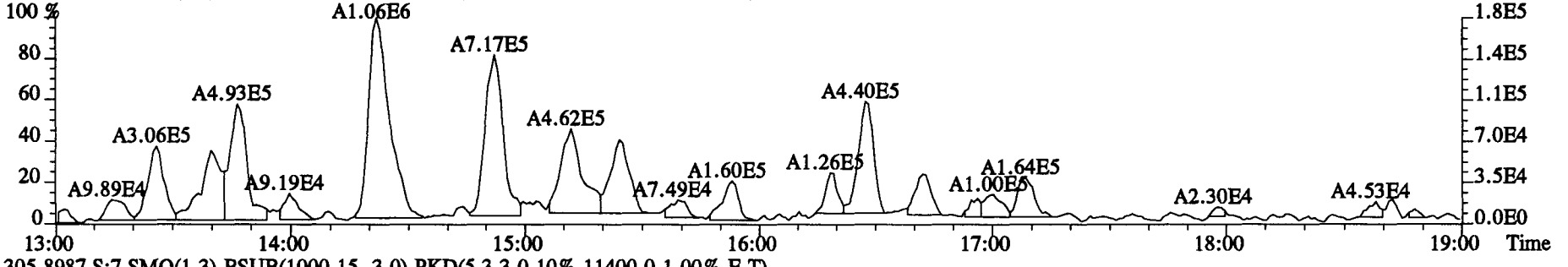
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	156585600	0.80	y	15:14	-	165.04		-	-	n
13C-2,3,7,8-TCDF	337082000	0.79	y	16:27	2.02	4257.25		17.81	106.4	n
2,3,7,8-TCDF	1280458	0.70	y	16:28	1.01	15.02	J, EMPC	3.19	-	y
13C-2,3,7,8-TCDD	134773900	0.82	y	14:55	0.99	3494.92		18.19	87.4	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.56	*		5.43	-	n
37Cl-2,3,7,8-TCDD	97641000	1.00	y	14:56	1.77	1633.59		8.96	102.1	n

12/15/10
ME

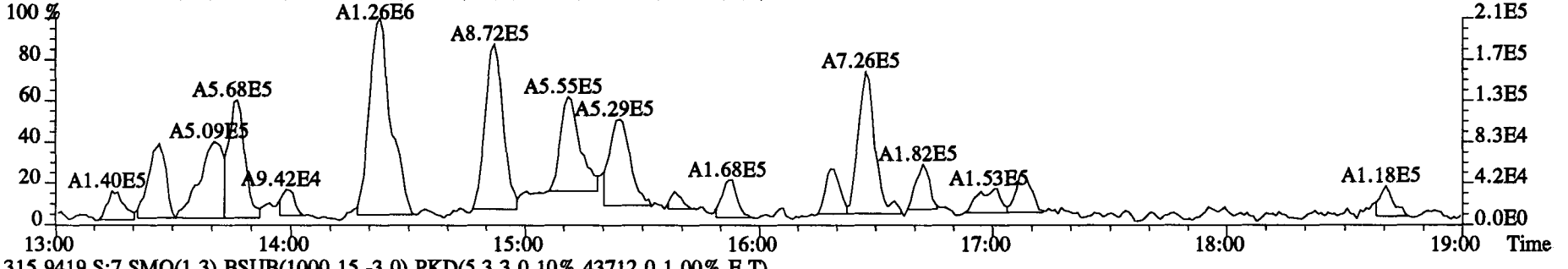
Run text: MA11D-1-AA Sample text: MA11D-1-AA :G0L080454-5
Run #8 Filename: 14DE10C5D2 S: 7 I: 1 Results: 14DE10C5D2DB225AIR
Acquired: 15-DEC-10 00:34:39 Processed: 15-DEC-10 09:39:50
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000g

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	156585600	0.80	y	15:14	-	165.04	-	-	n
13C-2,3,7,8-TCDF	337082000	0.79	y	16:27	2.02	4257.25	17.81	106.4	n
2,3,7,8-TCDF	1010583	0.61	n	16:28	1.01	11.85	3.19	-	n
13C-2,3,7,8-TCDD	134773900	0.82	y	14:55	0.99	3494.92	18.19	87.4	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.56	*	5.43	-	n
37Cl-2,3,7,8-TCDD	97641000	1.00	y	14:56	1.77	1633.59	8.96	102.1	n

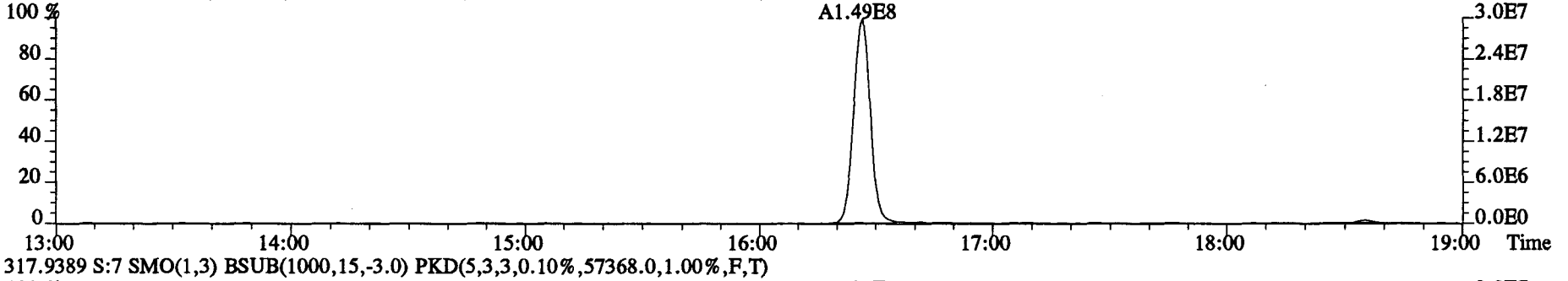
File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA11D-1-AA :G0L080454-5 Exp:DB225RES
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7008.0,1.00%,F,T)



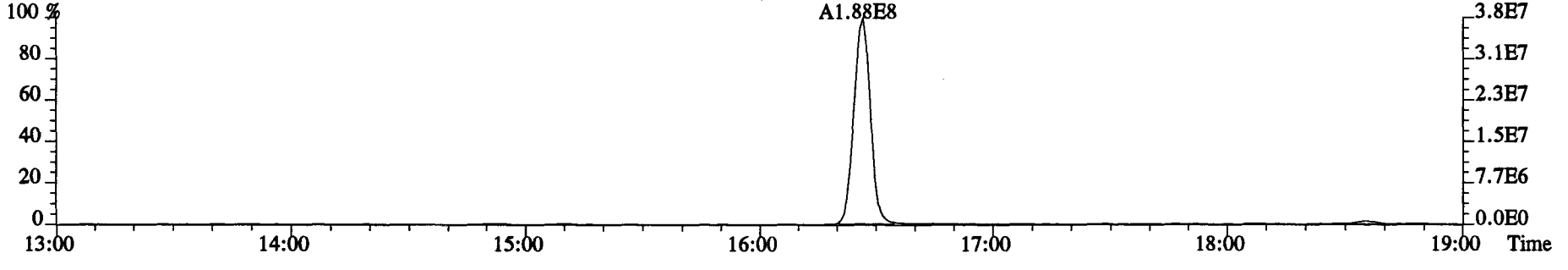
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11400.0,1.00%,F,T)



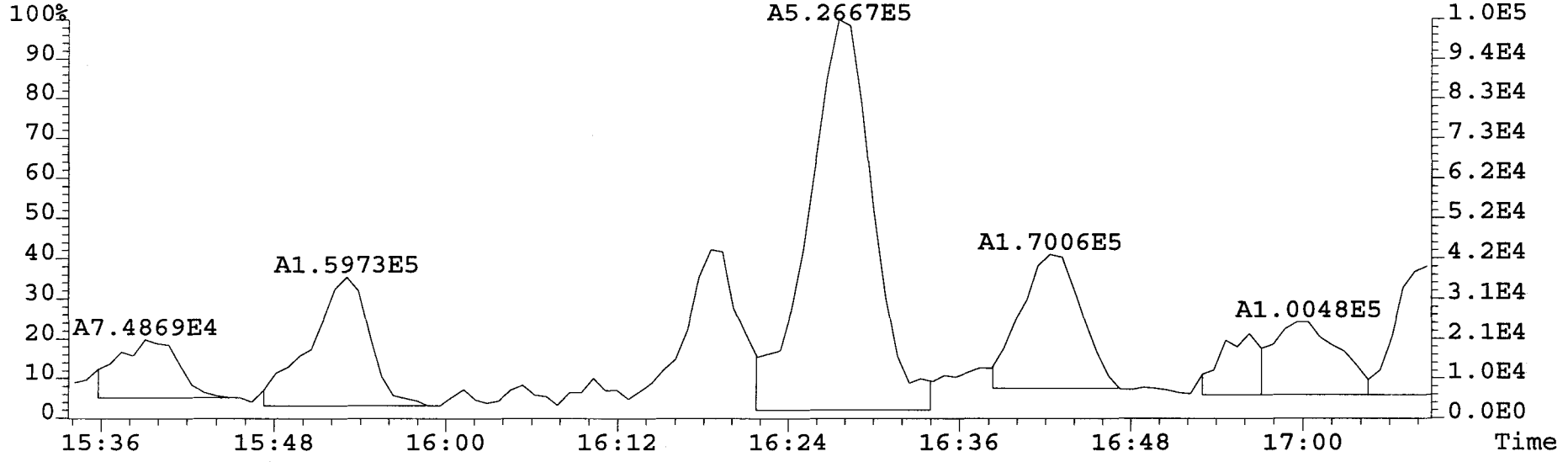
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43712.0,1.00%,F,T)



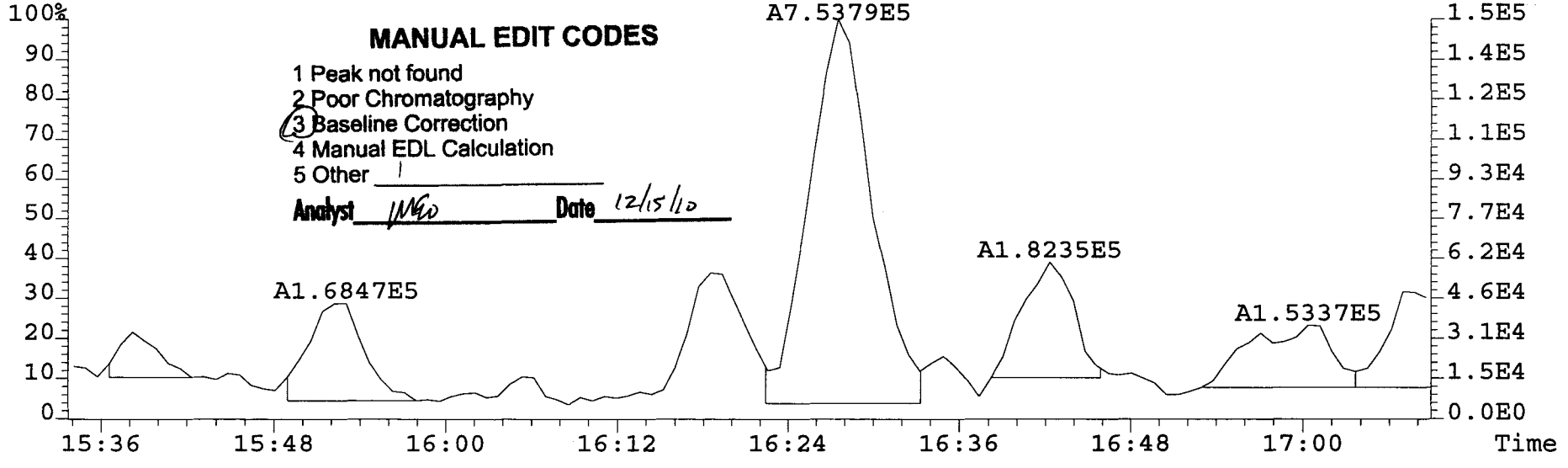
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57368.0,1.00%,F,T)



File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7008.0,1.00%,F,T) Exp:DB225RES Noise:>
Sample Text:MA11D-1-AA :G0L080454-5



File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11400.0,1.00%,F,T) Exp:DB225RES Noise>
Sample Text:MA11D-1-AA :G0L080454-5

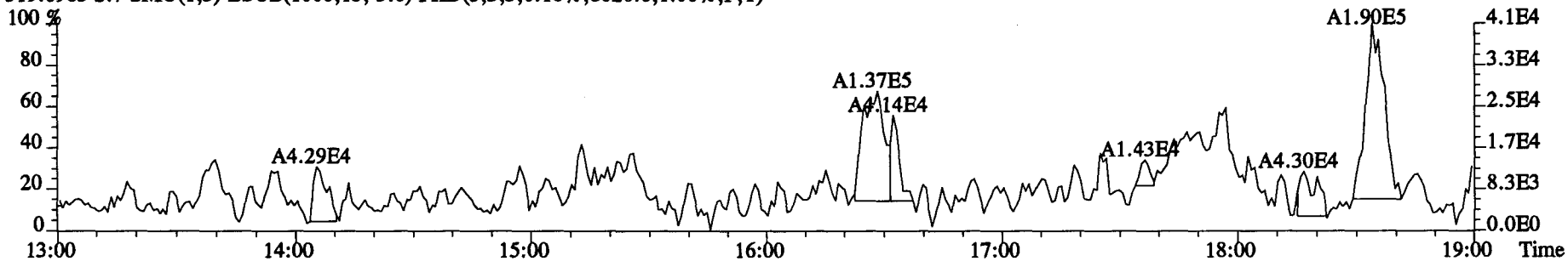


MANUAL EDIT CODES

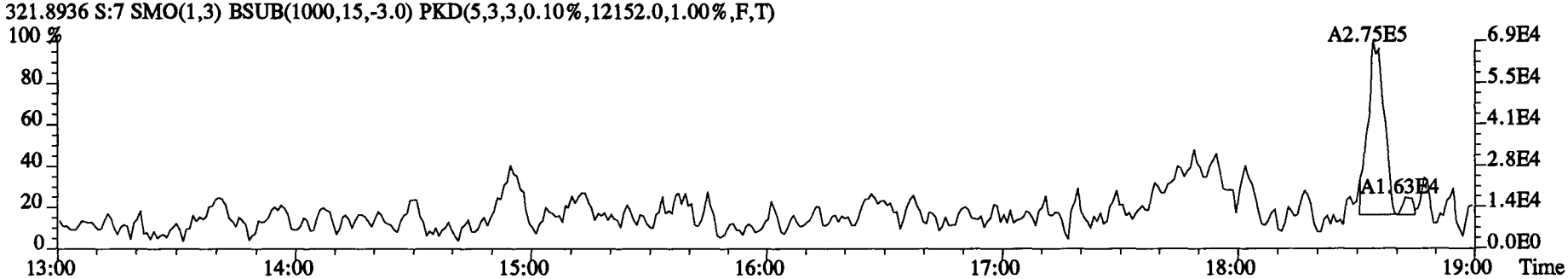
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst JNG Date 12/15/10

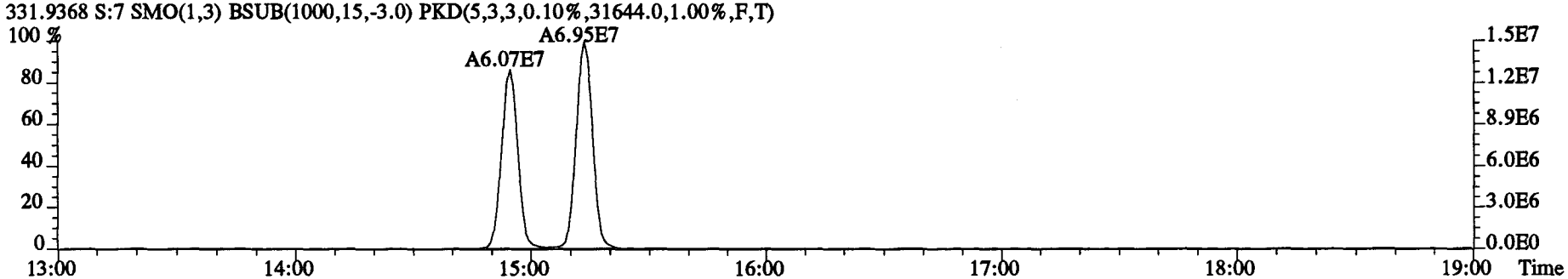
File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA11D-1-AA :G0L080454-5 Exp:DB225RES
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8020.0,1.00%,F,T)



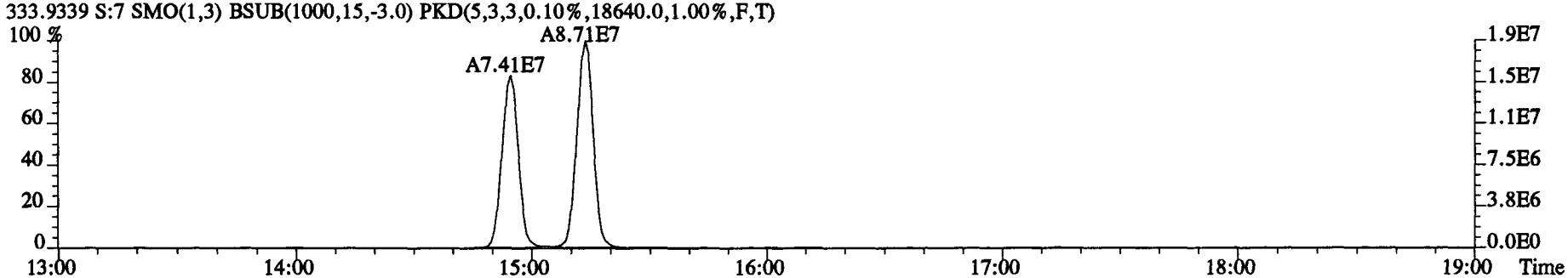
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12152.0,1.00%,F,T)



331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31644.0,1.00%,F,T)

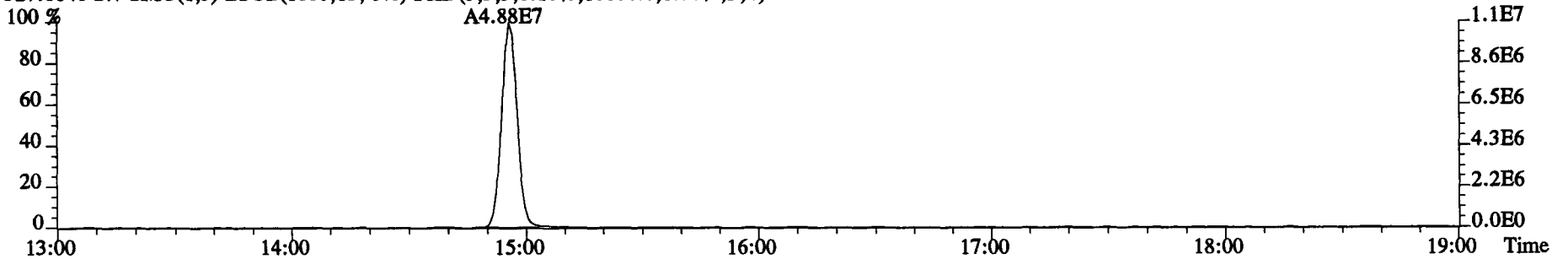


333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18640.0,1.00%,F,T)

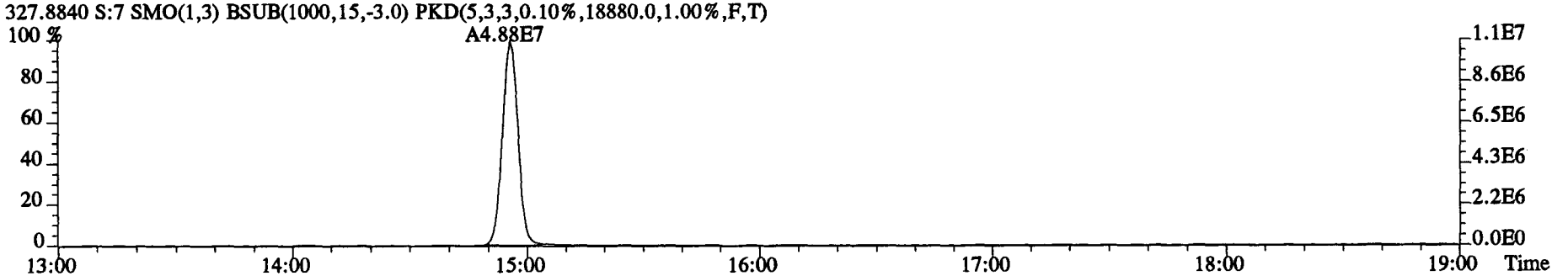


File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA11D-1-AA :G0L080454-5 Exp:DB225RES

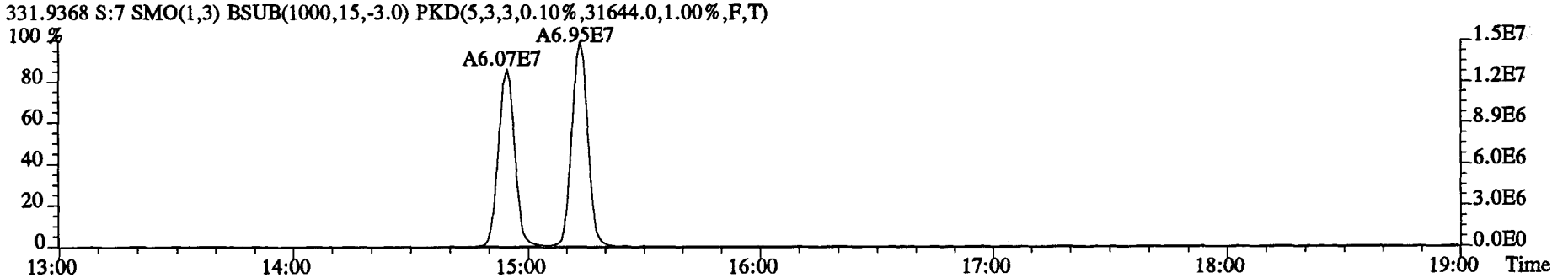
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18880.0,1.00%,F,T)



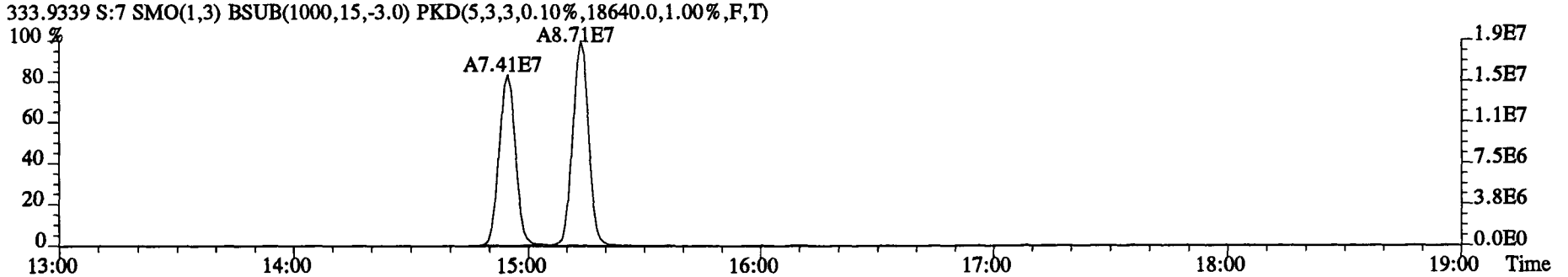
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18880.0,1.00%,F,T)



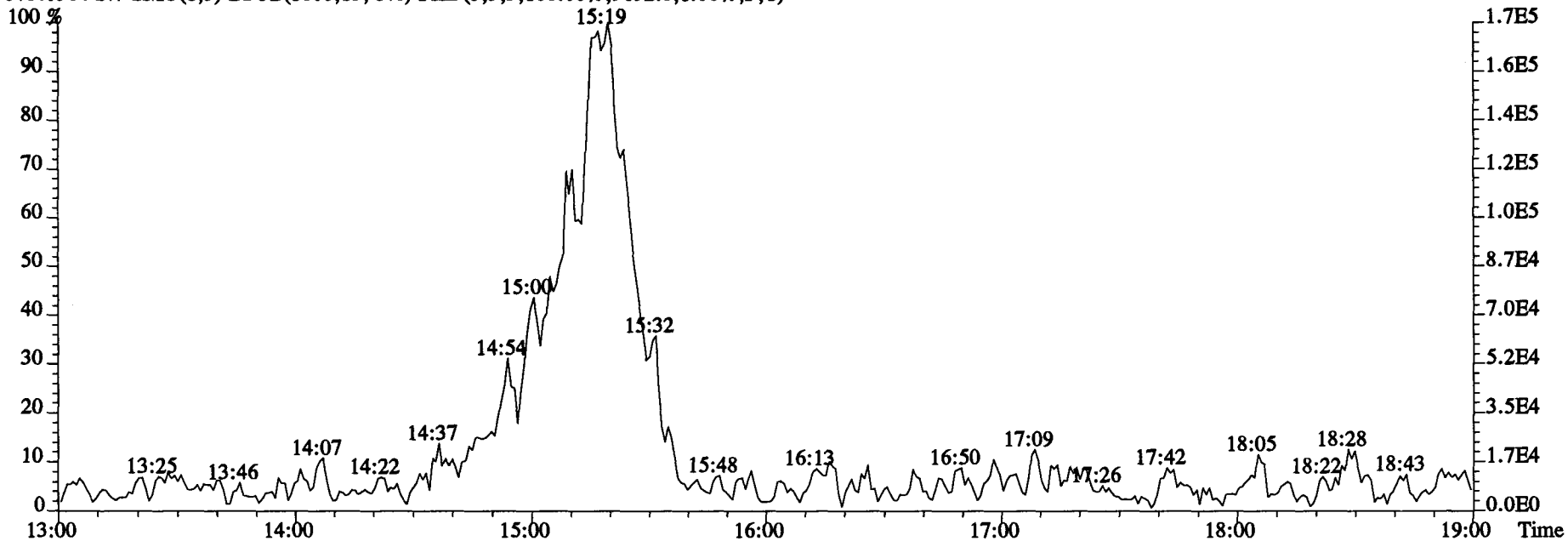
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31644.0,1.00%,F,T)



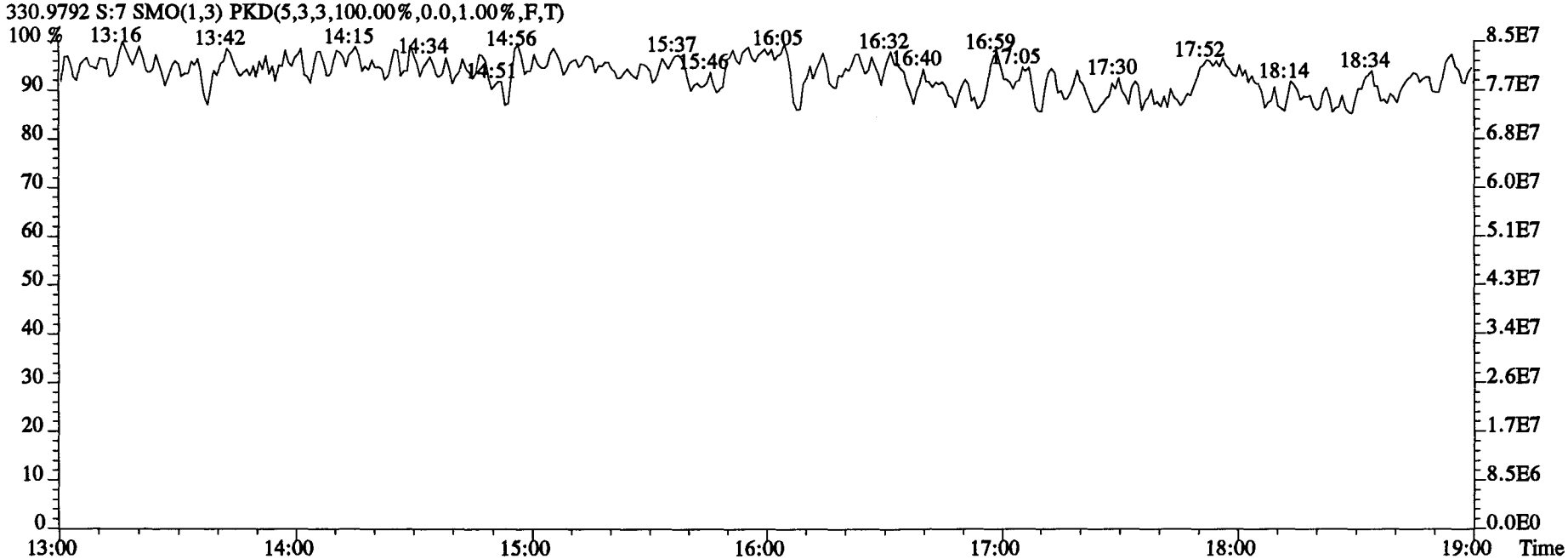
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18640.0,1.00%,F,T)



File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 00:34:39 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA11D-1-AA :G0L080454-5 Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,9692.0,1.00%,F,T)



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



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:22:23 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

12/15/10 JME

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

#	Name	Quan Trace	Sample Size	RT	Pred RT	RRF	M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Pred Ratio	Pa	Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.50000	19.90	19.87	1.000		401867.25	4000.0000	4000.0000	100.0	4.4055	0.814	0.770		NO	
2																	
3	13C-2,3,7,8-TCDF	315.9419	0.50000	19.26	19.26	1.312		493063.47	3740.5678	3740.5678	93.5	3.4134	0.770	0.770		NO	
4	2,3,7,8-TCDF	303.9016	0.50000	19.31	19.26	0.998		1177.98	9.5788	8.0949		JQ 1.5508	0.581	0.770		YES	
5	Total TCDFs	303.9016	0.50000		21.44	0.998			52.9149	46.6665	✓	1.5508					
6																	
7	13C-2,3,7,8-TCDD	331.9368	0.50000	20.11	20.12	0.909		342283.97	3746.4205	3746.4205	93.7	4.8445	0.811	0.770		NO	
8	2,3,7,8-TCDD	319.8965	0.50000		20.13	1.035						1.9716		0.770			
9	Total TCDDs	319.8965	0.50000		22.69	1.035			1.9866	1.~~8375~~		1.9716					
10																	
11	37CL-2,3,7,8-TCDD	327.8847	0.50000	20.12	20.11	0.655		92401.58	1647.8465	0.0000	103.0	2.7254					
12																	
13	13C-1,2,3,7,8-PeCDF	351.9000	0.50000	25.20	24.95	1.024		345087.34	3355.0487	3355.0487	83.9	4.~~0008~~	1.580	1.550		NO	
14	1,2,3,7,8-PeCDF	339.8597	0.50000		25.20	1.092						2.5558		1.550			
15	2,3,4,7,8-PeCDF	339.8597	0.50000		26.73	1.064						2.6219		1.550			
16	Total F2 PeCDFs	339.8597	0.50000		34.47	1.078			12.2572	12.2572	✓	2.5884					
17	Total F1 PeCDFs	339.8597	0.50000		36.56	1.078						~~0.9484~~					
18																	
19	13C-1,2,3,7,8-PeCDD	367.8949	0.50000	27.63	27.32	0.734		250699.49	3397.5700	3397.5700	84.9	4.1729	1.559	1.550		NO	
20	1,2,3,7,8-PeCDD	355.8546	0.50000		27.63	0.960						2.8199		1.550			
21	Total PeCDDs	355.8546	0.50000		31.10	0.960						~~1.5610~~					
22												2.8179					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.50000	33.37	33.27	1.000		242333.01	4000.0000	4000.0000	100.0	4.4888	1.252	1.240		NO	
24																	
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.50000	32.26	32.23	1.049		249634.98	3926.5136	3926.5136	98.2	7.4762	0.510	0.510		NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.50000	32.27	32.26	1.313		888.02	10.8404	10.8404	J	1.4045	1.271	1.240		NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.50000	32.38	32.38	1.438		534.04	5.9507	5.3785	JQ	1.2821	1.478	1.240		YES	
28	2,3,4,6,7,8-HxCDF	373.8208	0.50000	32.48	32.92	1.352		163.80	1.9409	RT ~~1.5865~~		1.3633	1.741	1.240		YES	
29	1,2,3,7,8,9-HxCDF	373.8208	0.50000		33.56	1.198			2/16/2010 mcw	1.6189		1.5395		1.240			
30	Total HxCDFs	373.8208	0.50000		0.00	1.325			33.0519	~~31.7412~~		1.3913					

31.7739 ✓

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Quantify Sample Summary Report   MassLynx 4.1 SCN 714 Desktop

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:22:23 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

#	Name	Quan Trace	Sample Size	RT	Pred.RT	RRF Mean	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Pred.Ratio	Ra Flag	Mod Date
31															
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.50000	33.11	33.10	0.905	223489.27	4078.3489	4078.3489	102.0	4.9626	1.272	1.240	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.50000		33.04	0.982					2.0868		1.240		
34	1,2,3,6,7,8-HxCDD	389.8157	0.50000		33.11	1.094					1.8718		1.240		
35	1,2,3,7,8,9-HxCDD	389.8157	0.50000		33.38	1.058					1.9362		1.240		
36	Total HxCDDs	389.8157	0.50000		0.00	1.045		13.9360	13.1917	✓	1.9609				
37															
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.50000	34.90	34.91	0.954	223480.46	3867.0678	3867.0678	96.7	9.4298	0.451	0.440	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.50000	34.91	34.90	1.463	1805.79	22.0955	22.0955	J	1.2578	1.192	1.040	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.50000	36.08	36.07	1.231	529.97	7.7069	6.4726	JQ	1.4949	0.749	1.040	YES	
41	Total HpCDFs	407.7818	0.50000		0.00	1.347		44.2020	42.9677	✓	1.3662				
42															
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.50000	35.73	35.75	0.848	192935.91	3753.8728	3753.8728	93.8	7.8683	1.055	1.040	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.50000	35.74	35.73	1.055	1367.28	26.8809	26.8809	J	1.8252	1.015	1.040	NO	
45	Total HpCDDs	423.7766	0.50000		0.08	1.055		56.8708	56.8708	✓	1.8252				
46															
47	13C-OCDD	469.7779	0.50000	38.31	38.35	0.675	313016.55	7658.4362	7658.4362	95.7	9.5243	0.867	0.890	NO	
48	OCDF	441.7428	0.50000	38.44	38.43	1.486	2644.44	45.4788	45.4788	J	1.7271	0.881	0.890	NO	
49	OCDD	457.7377	0.50000	38.32	38.31	1.146	4597.02	102.5049	102.5049	✓	2.0621	0.901	0.890	NO	
50															
51															
52	Function 1 PFK	330.97920	1.00000		38.25										
53	Function 2 PFK	342.97920	1.00000		38.25										
54	Function 3 PFK	380.97600	1.00000		38.25										
55	Function 4 PFK	430.97290	1.00000		38.25										
56	Function 5 PFK	442.97280	1.00000		0.00										
57	TCDF PCDPE	375.8364	1.00000		38.25										
58	F1 PeCDF PCDPE	409.79740	1.00000		38.25										
59	F2 PeCDF PCDPE	409.79740	1.00000		38.25										
60	HXCDF PCDPE	445.7555	1.00000		38.25										
61	HPCDF PCDPE	479.7165	1.00000		38.25										
62	OCDF PCDPE	513.67750	1.00000		0.00										

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:22:23 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	5	Total TCDFs	303.9016	17.98	735.643	5.9820	5.9820	0.99766	1.5508	0.873	0.770	NO	10.429
2	5	Total TCDFs	303.9016	17.63	584.388	4.7520	4.7520	0.99766	1.5508	0.728	0.770	NO	11.103
3	5	Total TCDFs	303.9016	17.34	1295.378	10.5335	8.6090	0.99766	1.5508	1.166	0.770	YES	27.240
4	5	Total TCDFs	303.9016	16.46	370.984	3.0167	2.0247	0.99766	1.5508	0.412	0.770	YES	11.616
5	4	2,3,7,8-TCDF	303.9016	19.31	1177.979	9.5788	8.0949	0.99766	1.5508	0.581	0.770	YES	20.024
6	5	Total TCDFs	303.9016	18.84	743.948	6.0495	5.3485	0.99766	1.5508	1.002	0.770	YES	15.367
7	5	Total TCDFs	303.9016	18.67	508.179	4.1323	4.1323	0.99766	1.5508	0.734	0.770	NO	10.867
8	5	Total TCDFs	303.9016	18.52	470.762	3.8280	3.4532	0.99766	1.5508	0.646	0.770	YES	8.685
9	5	Total TCDFs	303.9016	18.22	620.055	5.0420	4.2699	0.99766	1.5508	0.583	0.770	YES	14.028

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	9	Total TCDDs	319.8965	21.05	114.088	1.2886	1.1395	1.03464	1.9716	1.002	0.770	YES	2.376
2	9	Total TCDDs	319.8965	17.51	61.797	0.6980	0.6980	1.03464	1.9716	0.748	0.770	NO	2.750

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	1.	Total F2 PeCD...	339.8597	23.63	1139.803	12.2572	12.2572	1.07787	2.5884	1.635	1.550	NO	9.891

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Total HxCDFs

$1.5863 \cdot \frac{1.35233}{1.32511} = 1.6189$ 12/15/10 JMC

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	2.	2,3,4,6,7,8-Hx...	373.8208	32.48	163.803	1.9409	1.5863	1.35233	1.3633	1.741	1.240	YES	3.261
2	2.	1,2,3,6,7,8-Hx...	373.8208	32.38	534.041	5.9507	5.3785	1.43801	1.2821	1.478	1.240	YES	7.798
3	2.	1,2,3,4,7,8-Hx...	373.8208	32.27	888.024	10.8404	10.8404	1.31260	1.4045	1.271	1.240	NO	10.263
4	3.	Total HxCDFs	373.8208	31.25	753.591	9.1125	9.1125	1.32511	1.3913	1.207	1.240	NO	10.070
5	3.	Total HxCDFs	373.8208	31.05	133.686	1.6165	1.6165	1.32511	1.3913	1.419	1.240	NO	3.049
6	3.	Total HxCDFs	373.8208	31.01	296.960	3.5909	3.2069	1.32511	1.3913	0.978	1.240	YES	5.531

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:22:23 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	3.	Total HxCDDs	389.8157	32.28	182.097	3.1202	2.3760	1.04453	1.9609	1.942	1.240	YES	3.308
2	3.	Total HxCDDs	389.8157	31.77	232.421	3.9825	3.9825	1.04453	1.9609	1.314	1.240	NO	3.724
3	3.	Total HxCDDs	389.8157	32.52	398.790	6.8332	6.8332	1.04453	1.9609	1.337	1.240	NO	5.347

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,7,8,9-H...	407.7818	36.08	529.965	7.7069	6.4726	1.23081	1.4949	0.749	1.040	YES	15.613
2	4.	Total HpCDFs	407.7818	35.23	695.769	9.2466	9.2466	1.34680	1.3662	1.178	1.040	NO	23.704
3	4.	Total HpCDFs	407.7818	35.12	387.747	5.1531	5.1531	1.34680	1.3662	1.082	1.040	NO	9.885
4	3.	1,2,3,4,6,7,8-H...	407.7818	34.91	1805.794	22.0955	22.0955	1.46280	1.2578	1.192	1.040	NO	51.914

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd.Ra...	Ratio...	S/N
1	4.	1,2,3,4,6,7,8-H...	423.7766	35.74	1367.280	26.8809	26.8809	1.05453	1.8252	1.015	1.040	NO	71.140
2	4.	Total HpCDDs	423.7766	35.16	1525.413	29.9899	29.9899	1.05453	1.8252	0.977	1.040	NO	61.634

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld (13)

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.90	19.87	1.00000	401867.25	4000.0000	4000.0000	100.0	4.40547	0.81	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	493063.47	3740.5678	3740.5678	93.5	3.41342	0.77	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.31	19.26	0.99766	1177.98	9.5788	8.0949		1.55079	0.58	YES	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		51.6993	44.2980		1.55079			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.11	20.12	0.90938	342283.97	3746.4205	3746.4205	93.7	4.84445	0.81	NO	
8	2,3,7,8-TCDD	319.8965	0.500		20.13	1.03464					1.97160		NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		1.9866	1.8375		1.97160			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.12	20.11	0.65529	92401.58	1647.8465	0.0000	103.0	2.72536			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.95	1.02378	345087.34	3355.0487	3355.0487	83.9	4.00081	1.58	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	24.72	25.20	1.09163	84.45	0.8967	0.8967		2.55581	1.56	NO	
15	2,3,4,7,8-PeCDF	339.8597	0.500		26.73	1.06412					2.62190		NO	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		11.8282	7.4068		2.58843			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		0.5552	0.5552		2.19116			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.63	27.32	0.73445	250699.49	3397.5700	3397.5700	84.9	4.17291	1.56	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500		27.63	0.96030					2.81993		NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		2.3195	1.8743		2.81993			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	242333.01	4000.0000	4000.0000	100.0	4.48881	1.25	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	249634.98	3926.5136	3926.5136	98.2	7.47621	0.51	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.27	32.26	1.31260	888.02	10.8404	10.8404		1.40454	1.27	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.38	32.38	1.43801	534.04	5.9507	5.3785		1.28205	1.48	YES	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.92	32.92	1.35233	216.87	2.5696	1.0104		1.36327	4.70	YES	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500	33.55	33.56	1.19752	50.23	0.6721	0.5017		1.53952	0.70	YES	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		38.0529	34.5521		1.39128			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	223489.27	4078.3489	4078.3489	102.0	4.96263	1.27	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500	33.12	33.04	0.98150	129.62	2.3636	1.4443		2.08681	0.51	YES	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500	33.37	33.11	1.09425	167.26	2.7358	1.6950		1.87179	0.52	YES	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500		33.38	1.05784					1.93622		NO	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		19.0353	16.3310		1.96089			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	223480.46	3867.0678	3867.0678	96.7	9.42981	0.45	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	1805.79	22.0955	22.0955		1.25783	1.19	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.08	36.07	1.23081	529.97	7.7069	6.4726		1.49491	0.75	YES	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		44.2020	42.9677		1.36616			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.73	35.75	0.84836	192935.91	3753.8728	3753.8728	93.8	7.86830	1.06	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.74	35.73	1.05453	1367.28	26.8809	26.8809		1.82517	1.01	NO	
45	Total HpCDDs	423.7766	0.500		0.08	1.05453		59.0798	58.7227		1.82517			
46														
47	13C-OCDD	469.7779	0.500	38.31	38.35	0.67464	313016.55	7658.4362	7658.4362	95.7	9.52428	0.87	NO	
48	OCDF	441.7428	0.500	38.43	38.43	1.48610	2644.44	45.4788	45.4788		1.72710	0.88	NO	
49	OCDD	457.7377	0.500	38.32	38.31	1.14618	4597.02	102.5049	102.5049		2.06214	0.90	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379, Task:

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	5	Total TCDFs	303.9016	17.92	586.161	4.7664	3.6134	0.99766	1.5508	0.492	0.770	YES	10.429
2	5	Total TCDFs	303.9016	17.63	584.388	4.7520	4.7520	0.99766	1.5508	0.728	0.770	NO	11.103
3	5	Total TCDFs	303.9016	17.34	1295.378	10.5335	8.6090	0.99766	1.5508	1.166	0.770	YES	27.240
4	5	Total TCDFs	303.9016	16.46	370.984	3.0167	2.0247	0.99766	1.5508	0.412	0.770	YES	11.616
5	4	2,3,7,8-TCDF	303.9016	19.31	1177.979	9.5788	8.0949	0.99766	1.5508	0.581	0.770	YES	20.024
6	5	Total TCDFs	303.9016	18.84	743.948	6.0495	5.3485	0.99766	1.5508	1.002	0.770	YES	15.367
7	5	Total TCDFs	303.9016	18.67	508.179	4.1323	4.1323	0.99766	1.5508	0.734	0.770	NO	10.867
8	5	Total TCDFs	303.9016	18.52	470.762	3.8280	3.4532	0.99766	1.5508	0.646	0.770	YES	8.685
9	5	Total TCDFs	303.9016	18.22	620.055	5.0420	4.2699	0.99766	1.5508	0.583	0.770	YES	14.028

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	9	Total TCDDs	319.8965	21.04	114.088	1.2886	1.1395	1.03464	1.9716	1.002	0.770	YES	2.376
2	9	Total TCDDs	319.8965	17.51	61.797	0.6980	0.6980	1.03464	1.9716	0.748	0.770	NO	2.750

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	14	1,2,3,7,8-PeCDF	339.8597	24.72	84.453	0.8967	0.8967	1.09163	2.5558	1.562	1.550	NO	2.219
2	16	Total F2 PeCD...	339.8597	23.62	919.501	9.8882	5.8198	1.07787	2.5884	3.333	1.550	YES	9.140
3	16	Total F2 PeCD...	339.8597	25.89	97.016	1.0433	0.6903	1.07787	2.5884	2.854	1.550	YES	2.090

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	17	Total F1 PeCD...	339.8597	14.71	51.632	0.5552	0.5552	1.07787	2.1912	1.646	1.550	NO	1.751

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379, Task:

Total PeCDDs

#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
21	Total PeCDDs	355.8546	25.90	31.522	0.5237	0.2465	0.96030	2.8199	4.417	1.550	YES	1.097
21	Total PeCDDs	355.8546	25.27	33.852	0.5625	0.5625	0.96030	2.8199	1.375	1.550	NO	2.113
21	Total PeCDDs	355.8546	24.78	46.709	0.7761	0.6081	0.96030	2.8199	0.909	1.550	YES	1.997
21	Total PeCDDs	355.8546	28.44	27.517	0.4572	0.4572	0.96030	2.8199	1.418	1.550	NO	1.682

Total HxCDFs

#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
29	1,2,3,7,8,9-Hx...	373.8208	33.55	50.230	0.6721	0.5017	1.19752	1.5395	0.704	1.240	YES	1.979
28	2,3,4,6,7,8-Hx...	373.8208	32.92	216.869	2.5696	1.9104	1.35233	1.3633	4.697	1.240	YES	2.346
30	Total HxCDFs	373.8208	32.69	142.196	1.7194	1.2661	1.32511	1.3913	0.688	1.240	YES	3.095
30	Total HxCDFs	373.8208	32.48	163.803	1.9807	1.6189	1.32511	1.3913	1.741	1.240	YES	3.261
27	1,2,3,6,7,8-Hx...	373.8208	32.38	534.041	5.9507	5.3785	1.43801	1.2821	1.478	1.240	YES	7.798
26	1,2,3,4,7,8-Hx...	373.8208	32.27	888.024	10.8404	10.8404	1.31260	1.4045	1.271	1.240	NO	10.263
30	Total HxCDFs	373.8208	31.25	753.591	9.1125	9.1125	1.32511	1.3913	1.207	1.240	NO	10.070
30	Total HxCDFs	373.8208	31.05	133.686	1.6165	1.6165	1.32511	1.3913	1.420	1.240	NO	3.049
30	Total HxCDFs	373.8208	31.02	296.960	3.5909	3.2069	1.32511	1.3913	0.978	1.240	YES	5.531

#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Total HxCDDs

#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
36	Total HxCDDs	389.8157	32.28	182.097	3.1202	2.3760	1.04453	1.9609	1.942	1.240	YES	3.308
36	Total HxCDDs	389.8157	31.77	232.421	3.9825	3.9825	1.04453	1.9609	1.314	1.240	NO	3.724
34	1,2,3,6,7,8-Hx...	389.8157	33.37	167.263	2.7358	1.6950	1.09425	1.8718	0.522	1.240	YES	4.852
33	1,2,3,4,7,8-Hx...	389.8157	33.12	129.616	2.3636	1.4443	0.98150	2.0868	0.511	1.240	YES	4.168
36	Total HxCDDs	389.8157	32.52	398.790	6.8332	6.8332	1.04453	1.9609	1.337	1.240	NO	5.347

#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379, Task:

Total HpCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	40	1,2,3,4,7,8,9-H...	407.7818	36.08	529.965	7.7069	6.4726	1.23081	1.4949	0.749	1.040	YES	15.613
2	41	Total HpCDFs	407.7818	35.23	695.769	9.2466	9.2466	1.34680	1.3662	1.178	1.040	NO	23.704
3	41	Total HpCDFs	407.7818	35.12	387.747	5.1531	5.1531	1.34680	1.3662	1.082	1.040	NO	9.885
4	39	1,2,3,4,6,7,8-H...	407.7818	34.91	1805.794	22.0955	22.0955	1.46280	1.2578	1.192	1.040	NO	51.914

Total HpCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	45	Total HpCDDs	423.7766	36.79	44.458	0.8741	0.8741	1.05453	1.8252	1.129	1.040	NO	3.770
2	45	Total HpCDDs	423.7766	36.68	67.900	1.3349	0.9778	1.05453	1.8252	1.785	1.040	YES	3.553
3	44	1,2,3,4,6,7,8-H...	423.7766	35.74	1367.280	26.8809	26.8809	1.05453	1.8252	1.015	1.040	NO	71.140
4	45	Total HpCDDs	423.7766	35.16	1525.413	29.9899	29.9899	1.05453	1.8252	0.977	1.040	NO	61.634

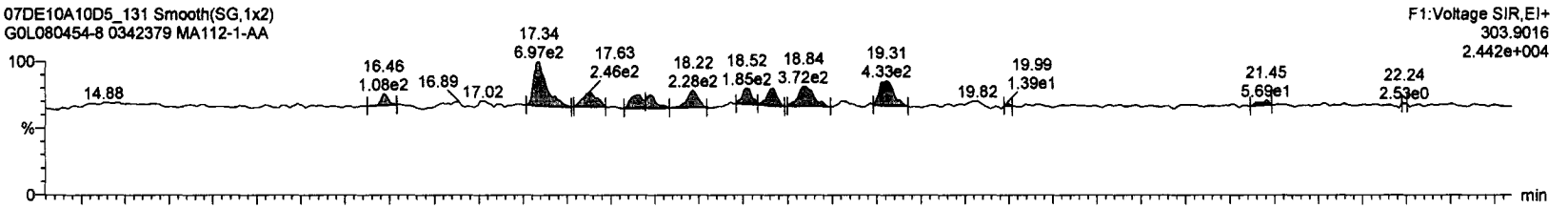
Quantify Sample Report **MassLynx 4.1**

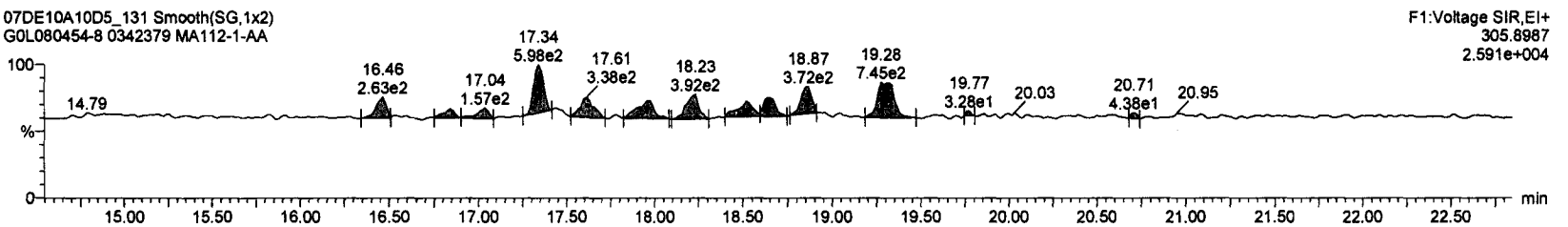
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

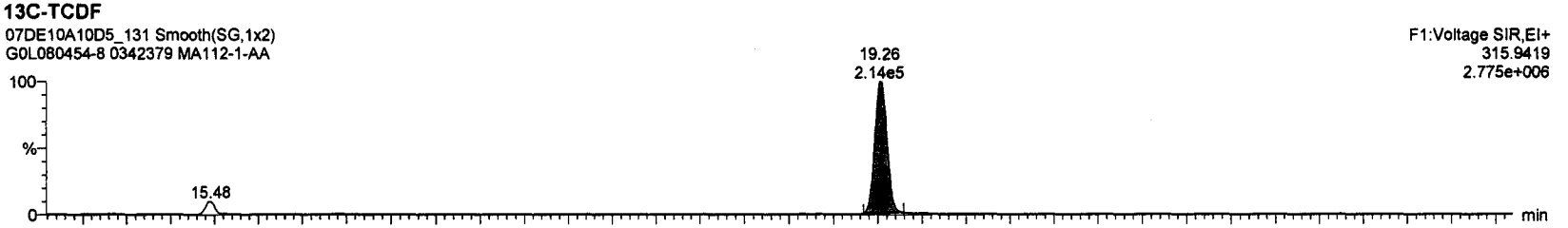
Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

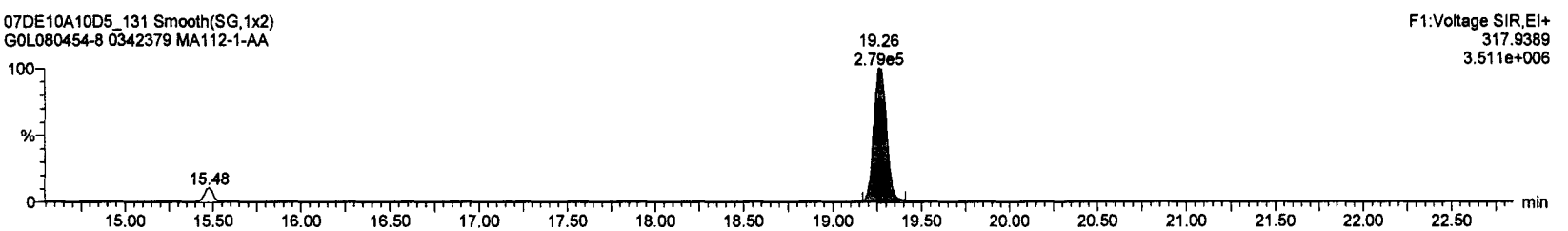
TCDFs





13C-TCDF





Quantify Compound Report **MassLynx 4.1 SCN 714 Desktop**

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:25:06 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Compound Name: Total TCDFs, Chrom. Trace: 303.9016

Sample Name: 07DE10A10D5_131

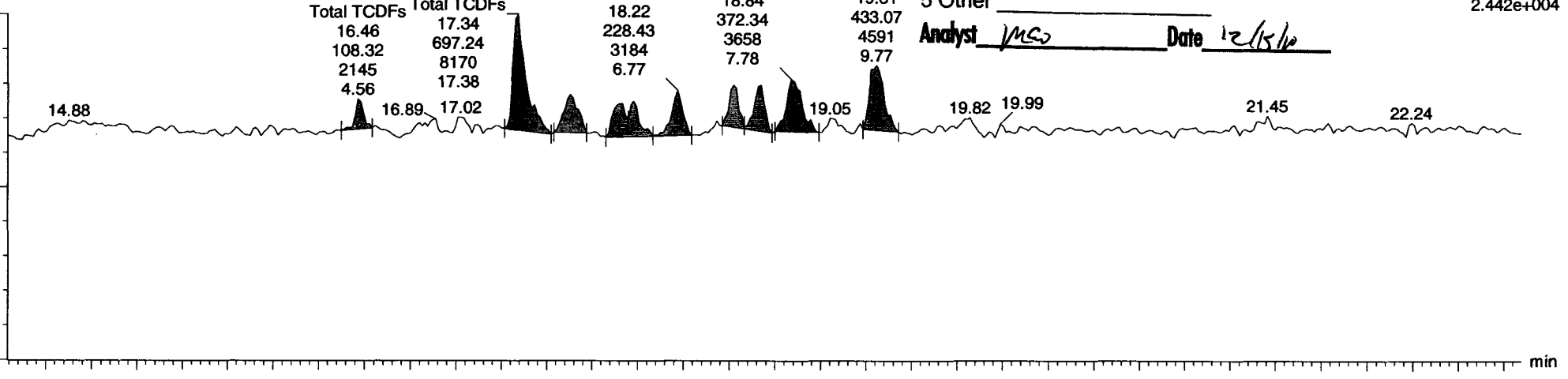
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MSD Date 12/15/10

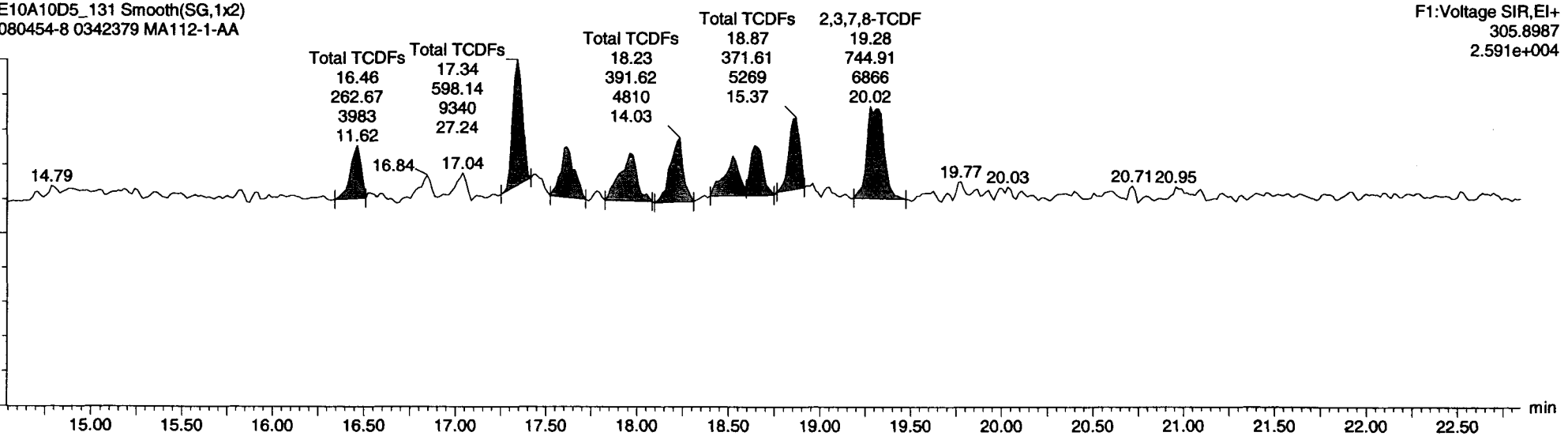
07DE10A10D5_131 Smooth(SG,1x2)
G0L080454-8 0342379 MA112-1-AA

F1:Voltage SIR,EI+
303.9016
2.442e+004



07DE10A10D5_131 Smooth(SG,1x2)
G0L080454-8 0342379 MA112-1-AA

F1:Voltage SIR,EI+
305.8987
2.591e+004



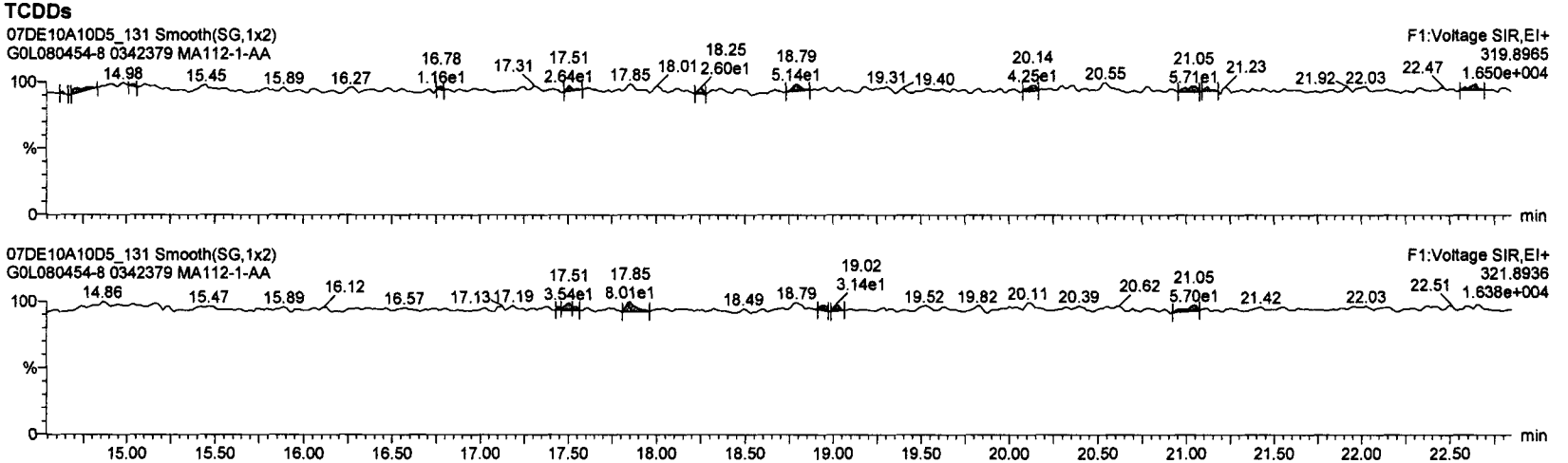
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

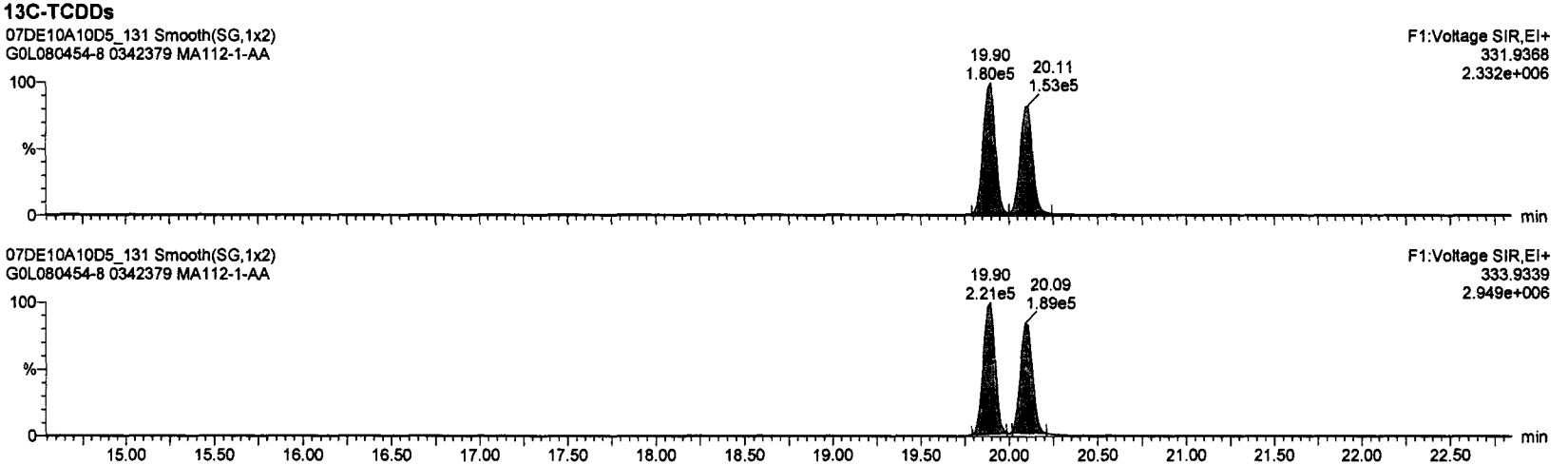
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

TCDDs



13C-TCDDs



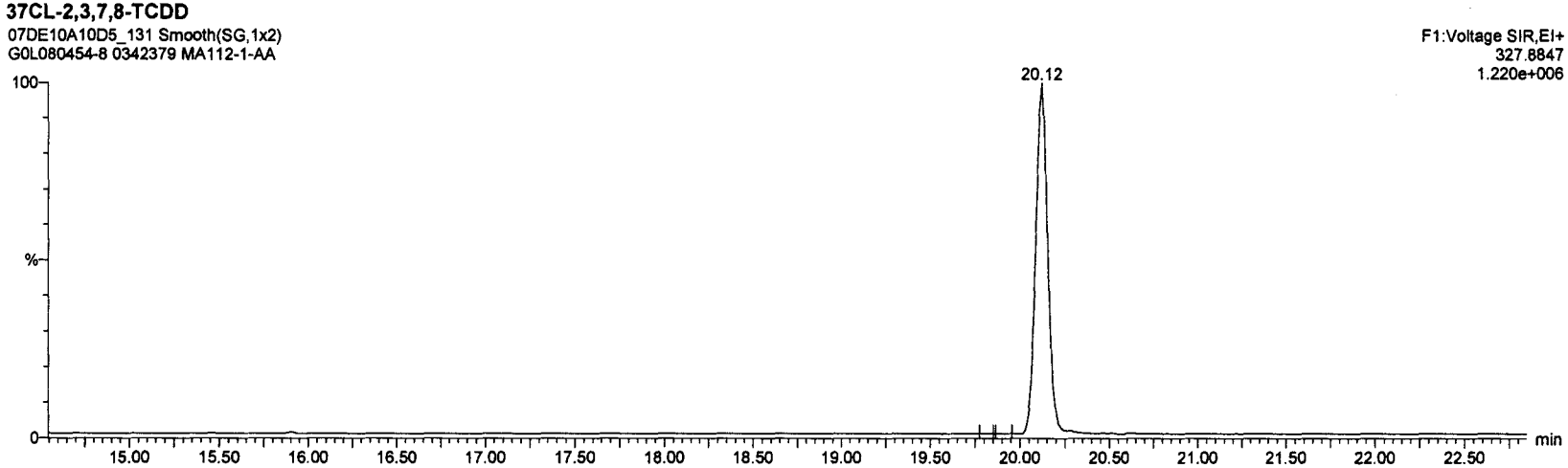
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

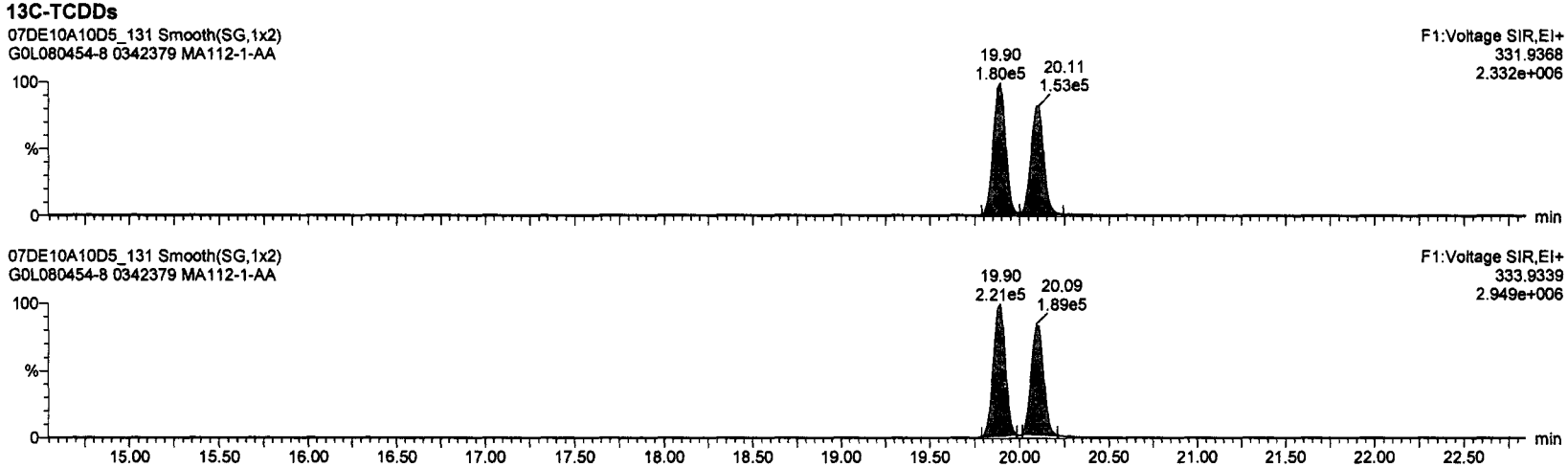
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

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



13C-TCDDs



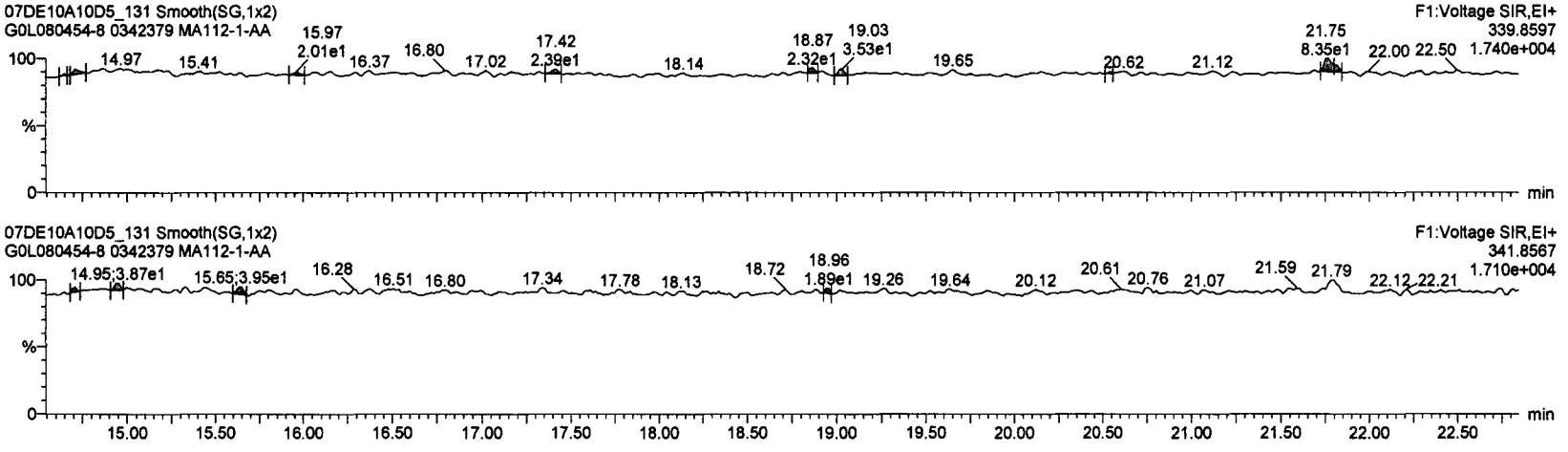
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

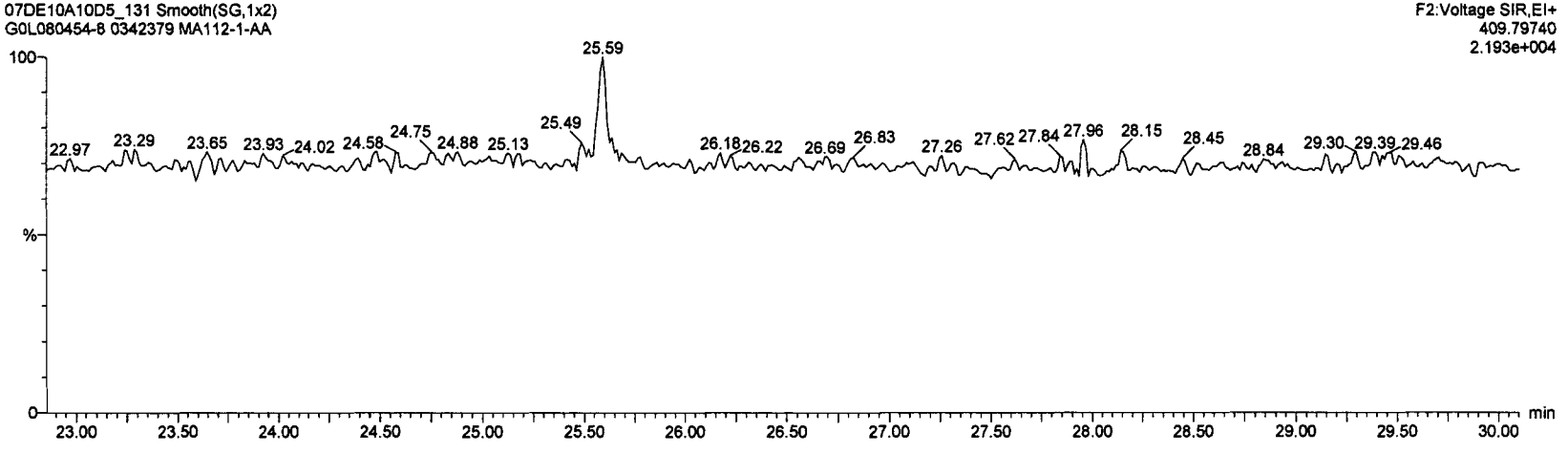
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

F1 PeCDFs



F1 PeCDF PCDPE



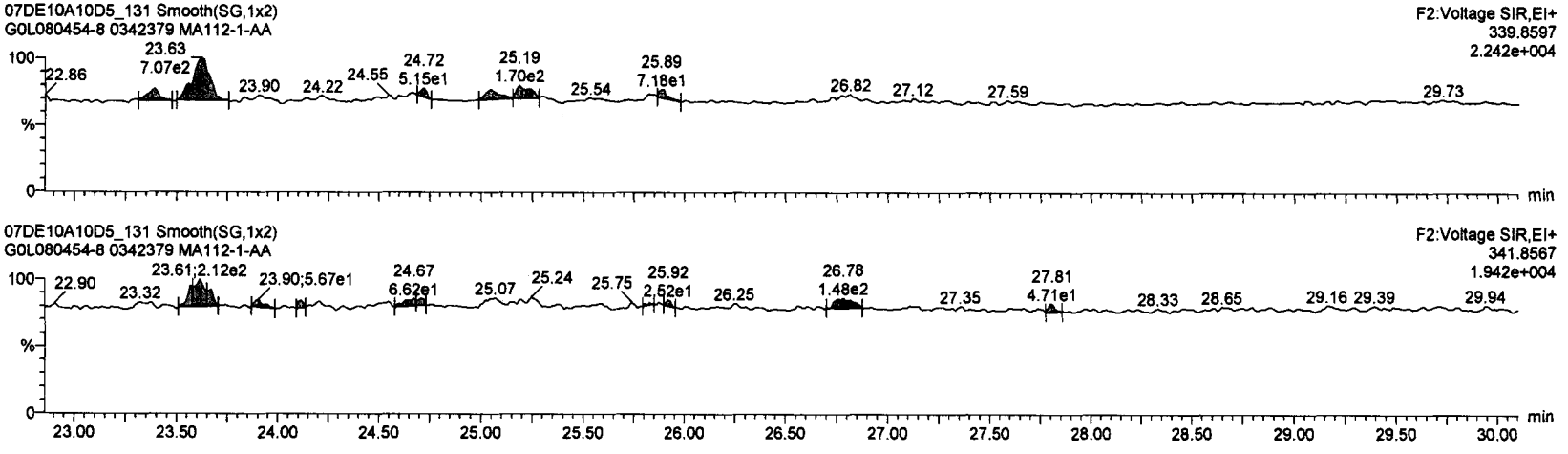
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

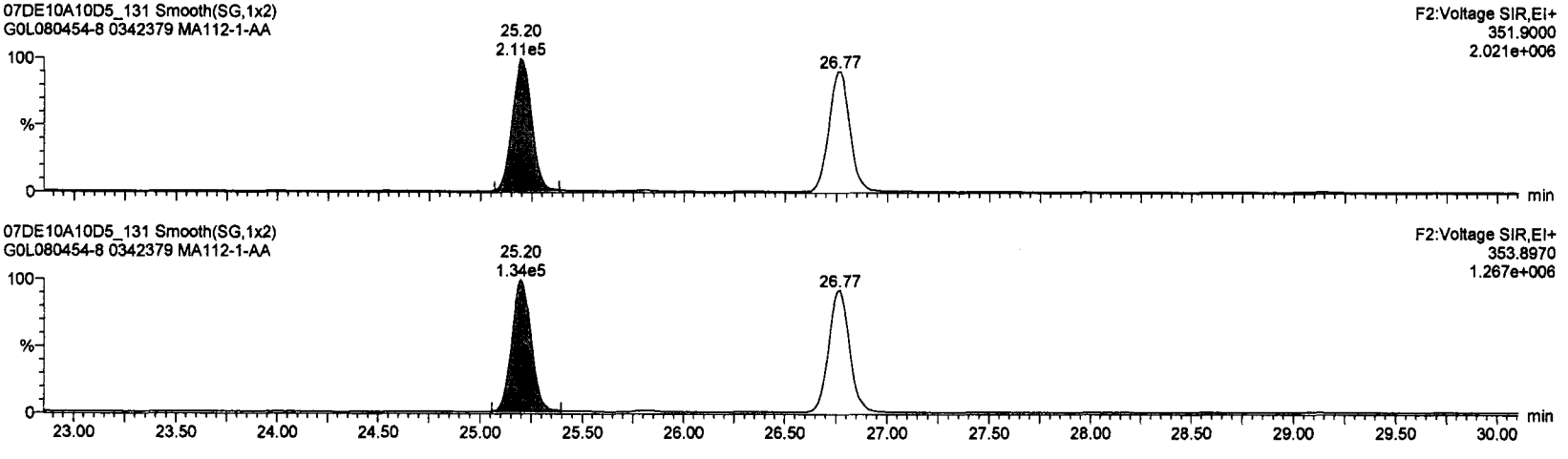
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

PeCDFs



13C-PeCDFs



G0L080454

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:22:01 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:25:06 Pacific Standard Time

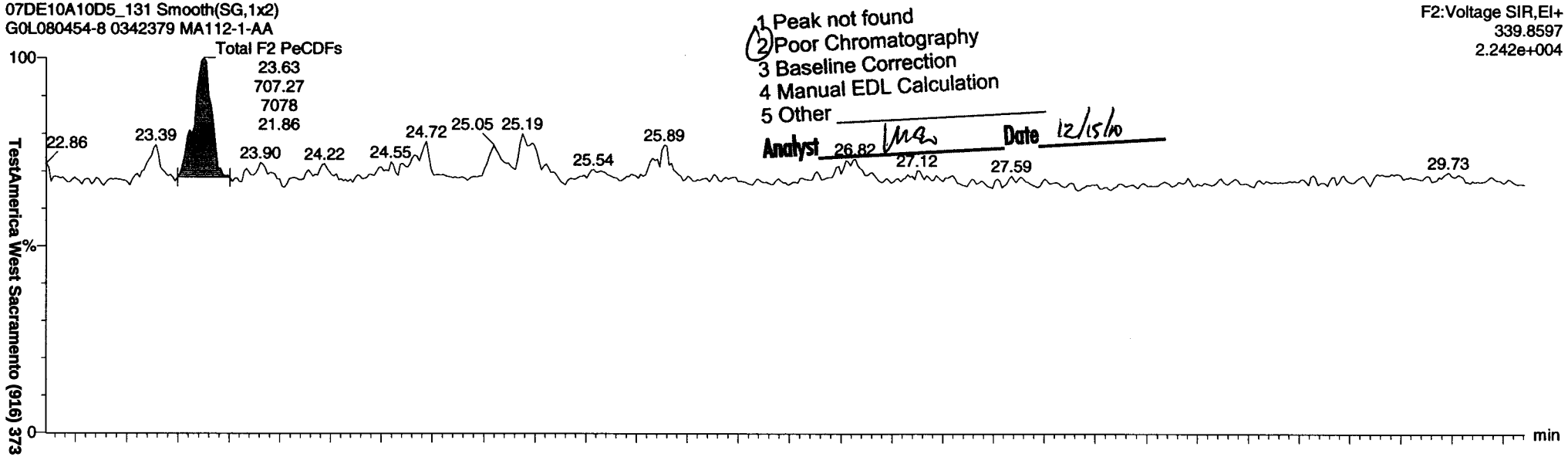
Compound Name: Total F2 PeCDFs, Chrom. Trace: 339.8597

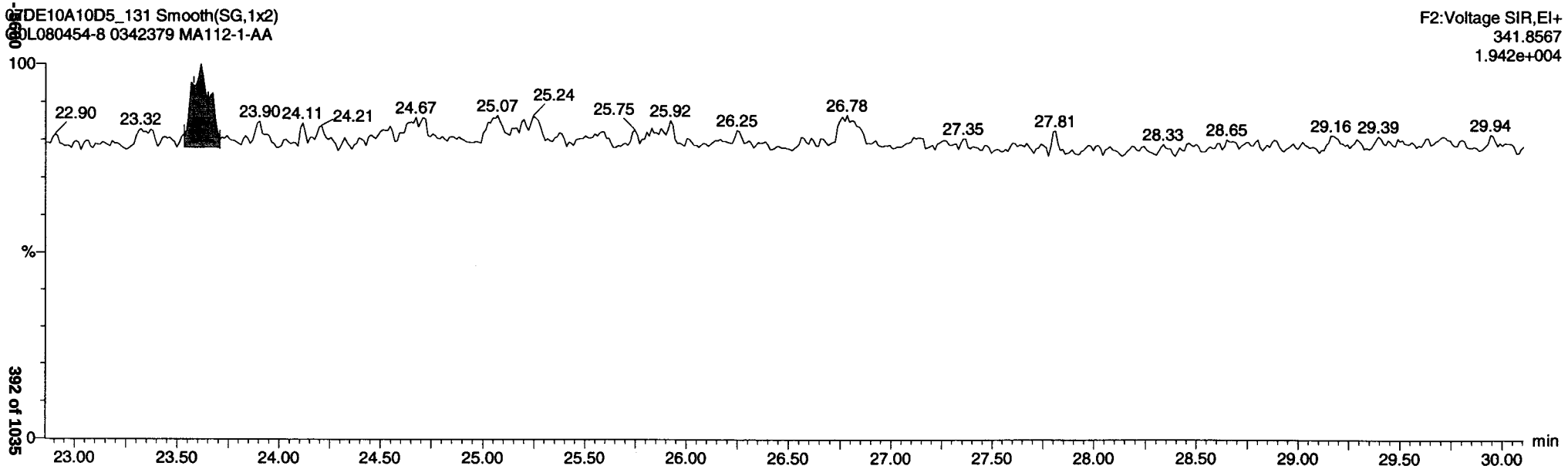
Sample Name: 07DE10A10D5_131

MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MA Date 12/15/10





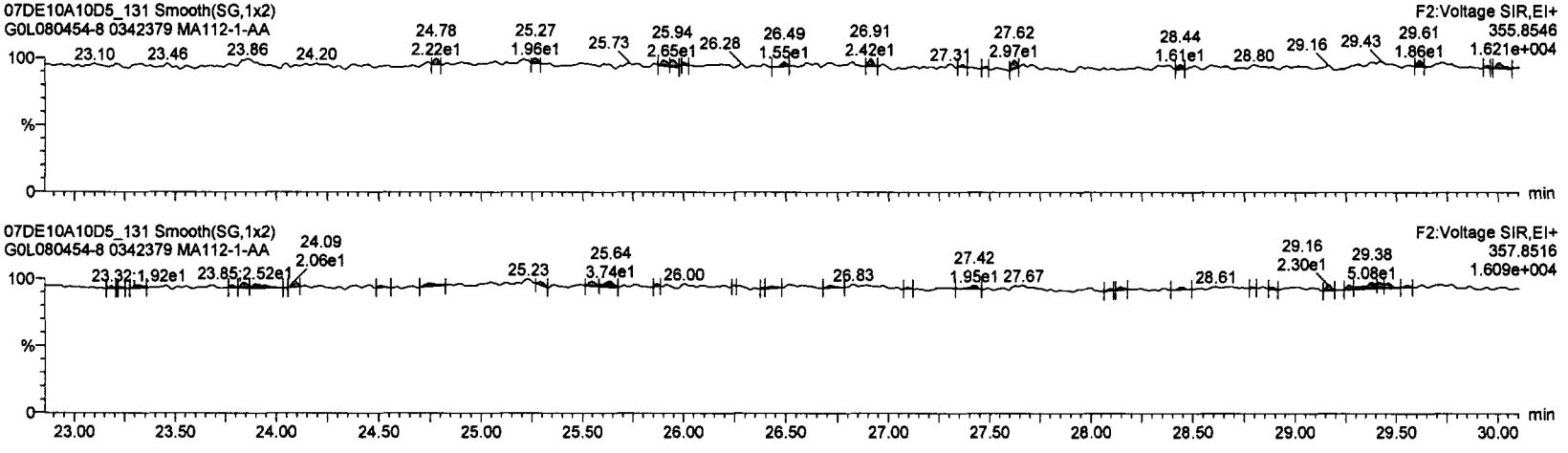
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

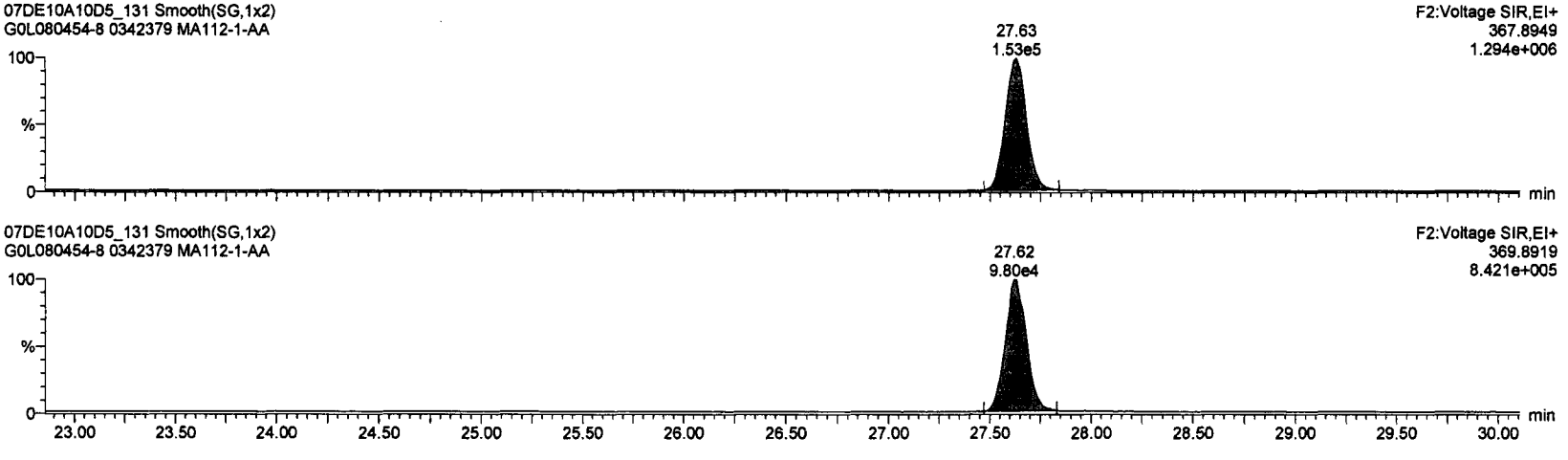
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

PeCDDs



13C-PeCDD



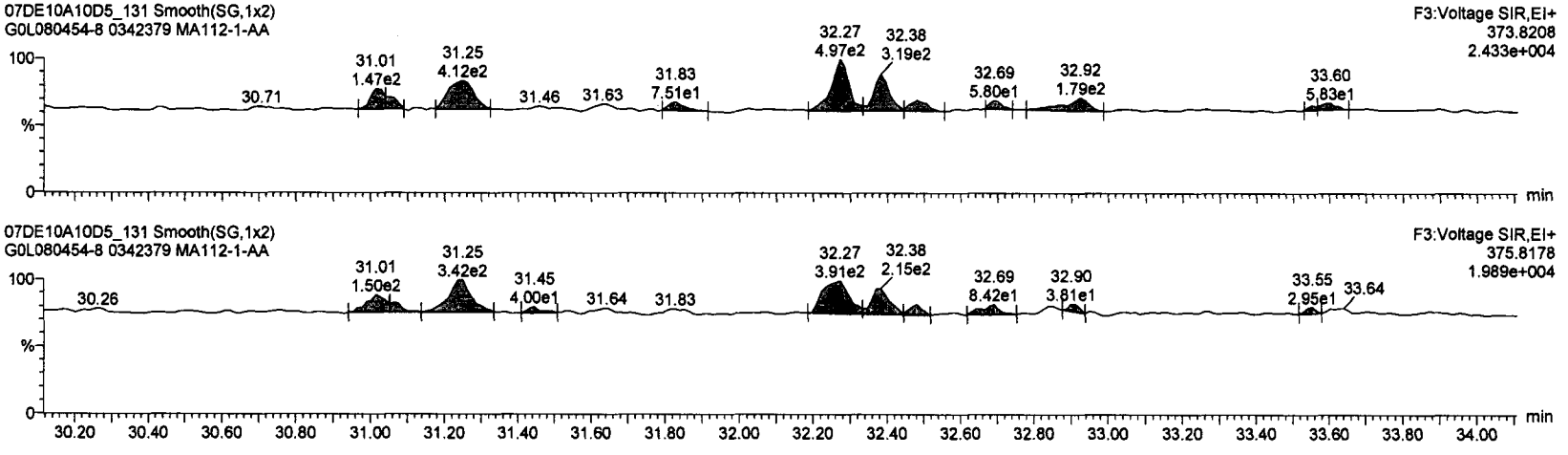
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

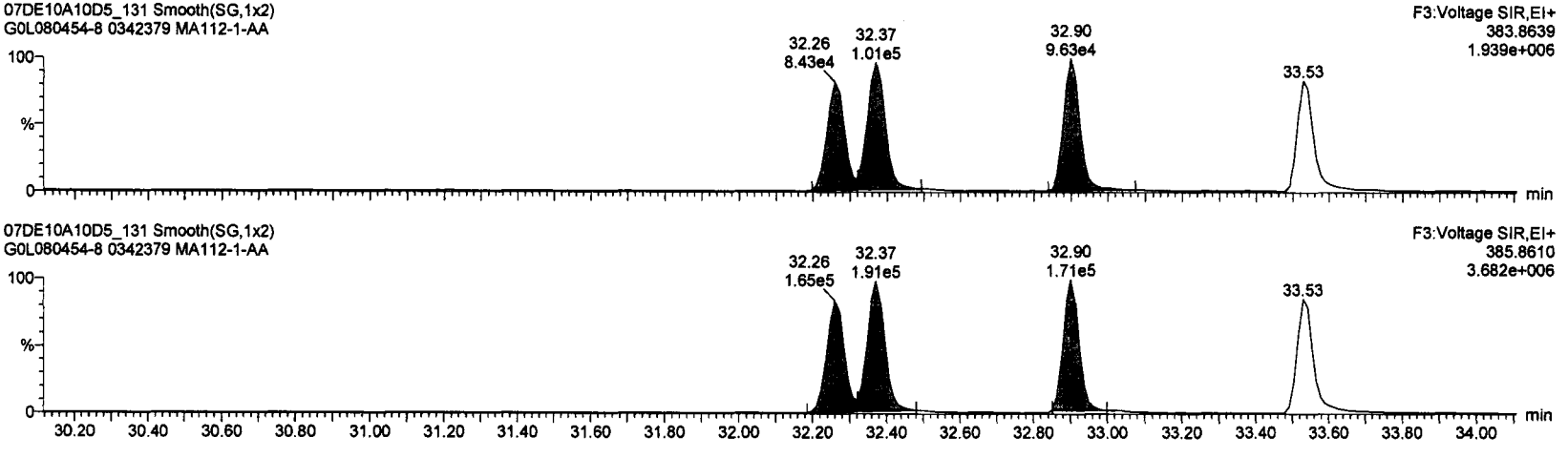
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

HxCDFs



13C-HxCDFs



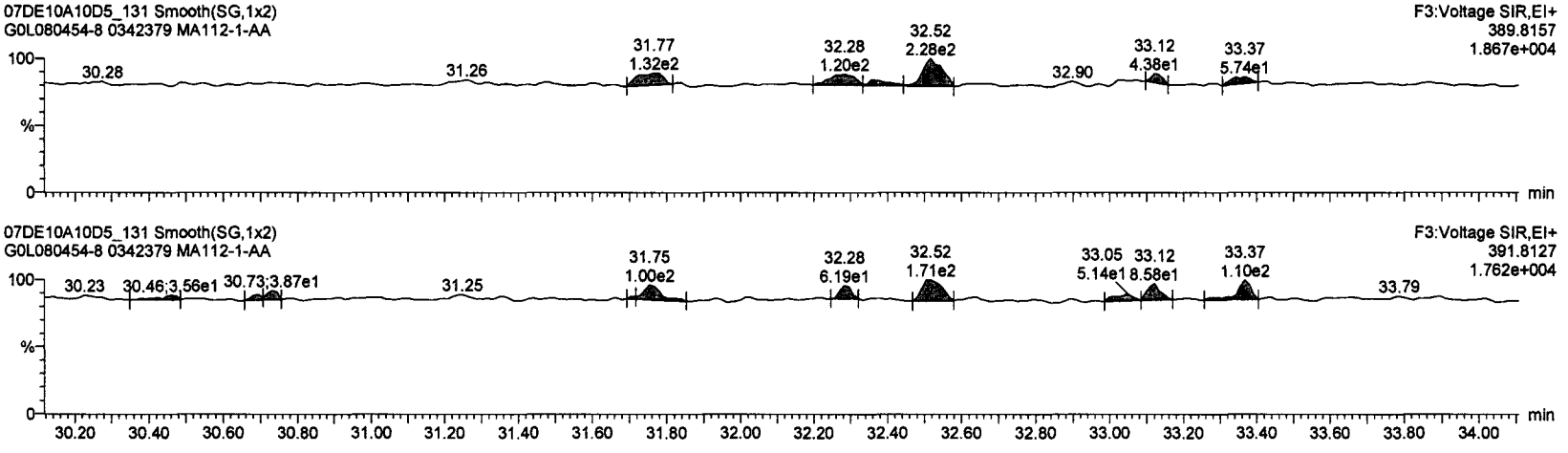
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

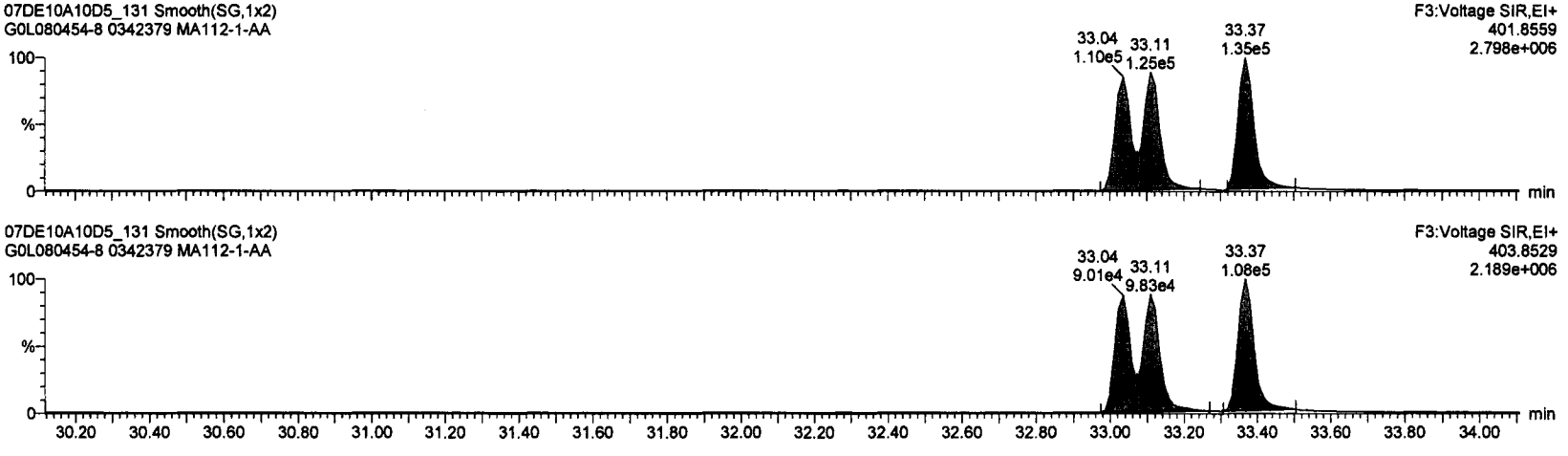
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



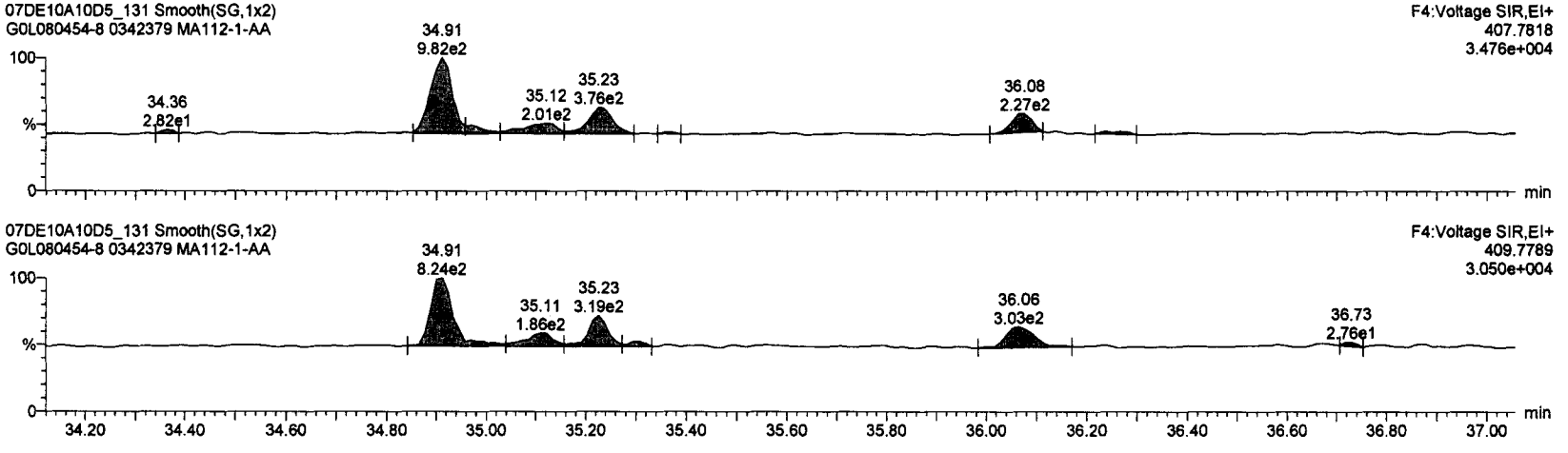
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

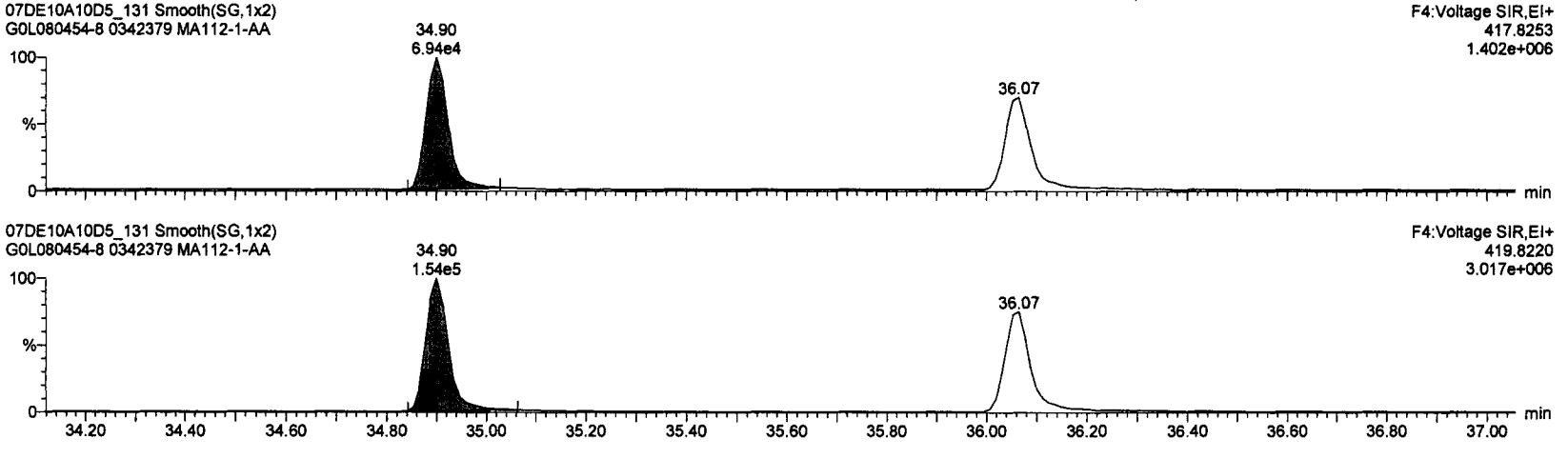
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

HpCDFs



13C-HpCDFs



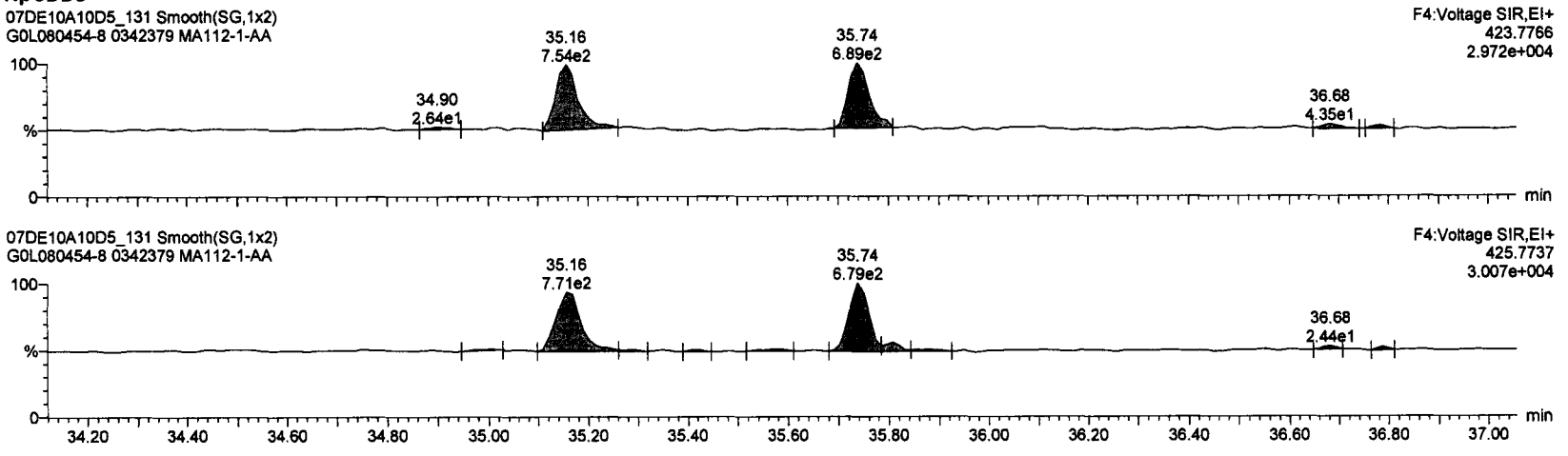
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

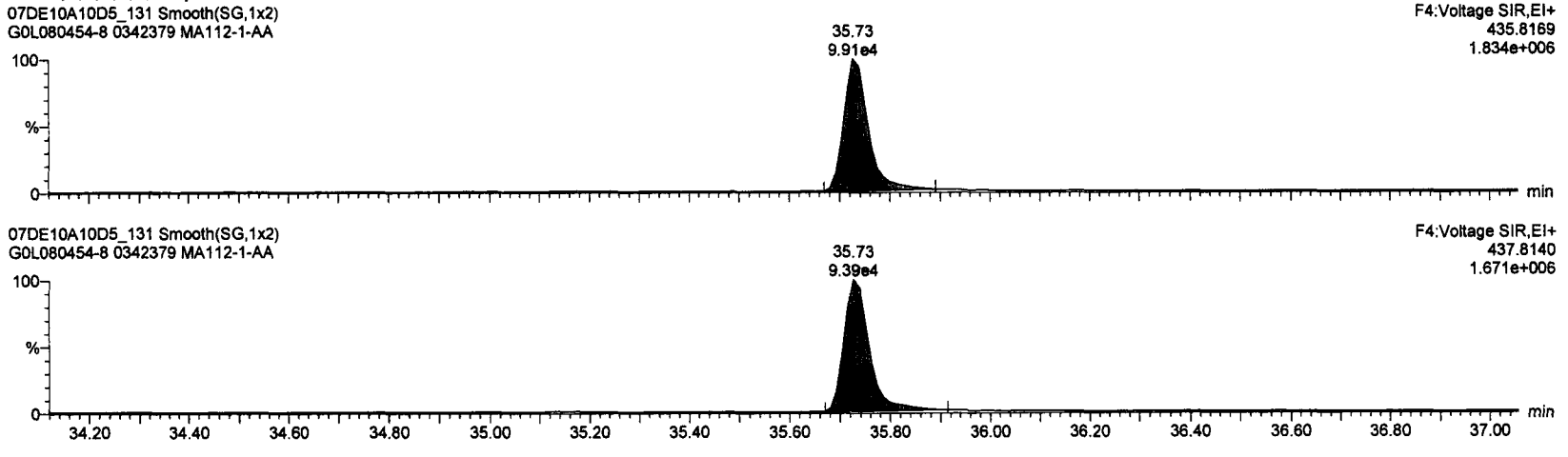
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



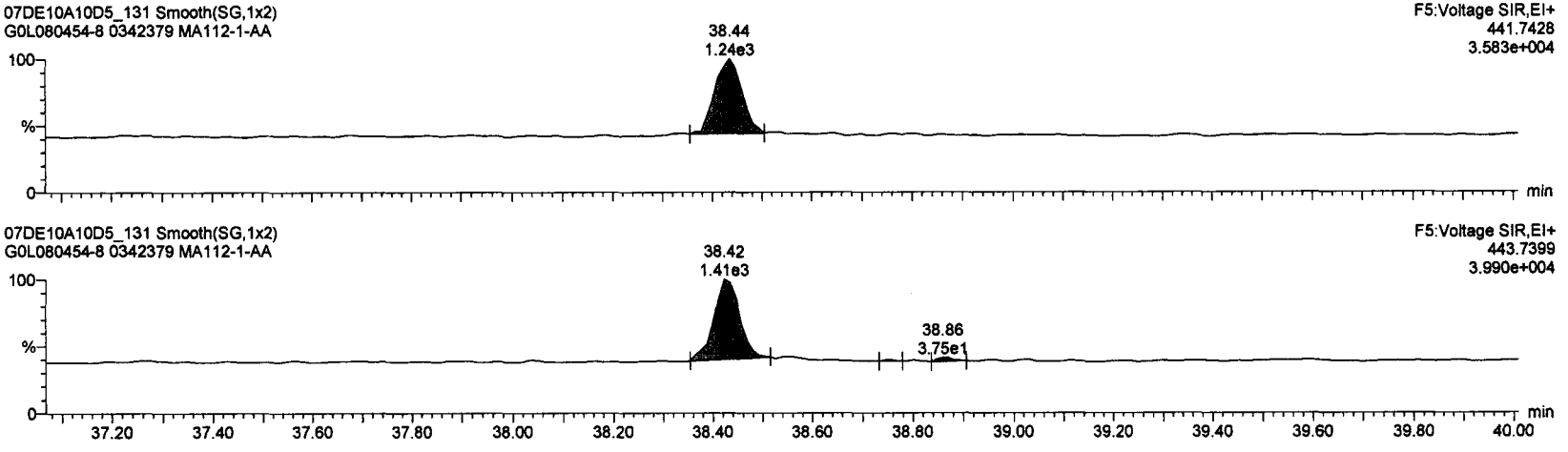
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

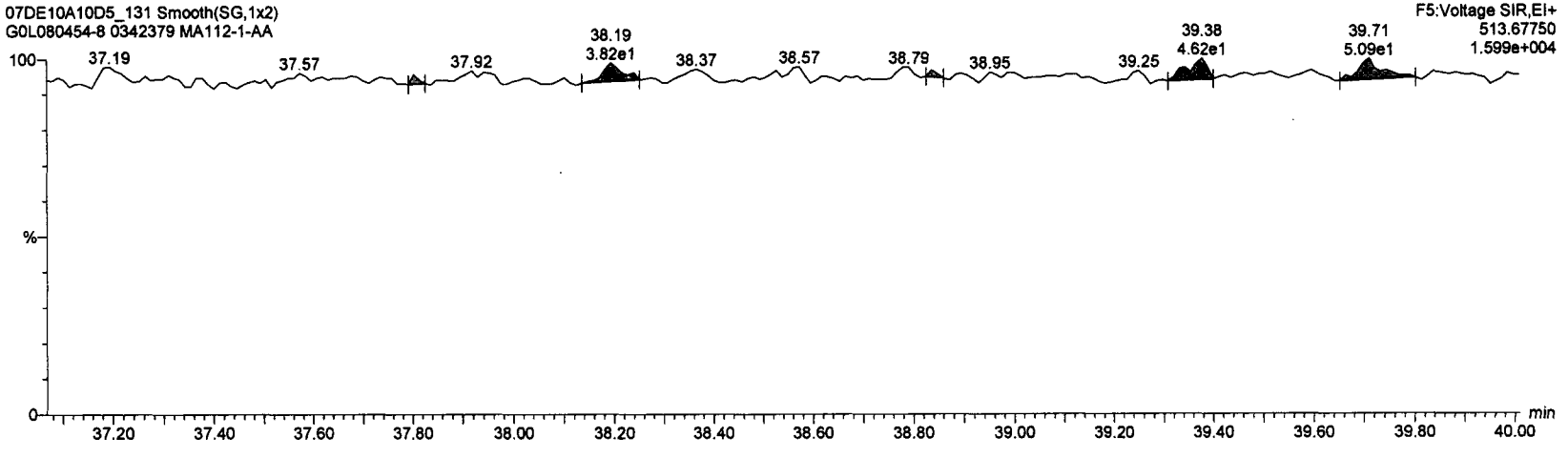
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

OCDFs



OCDF PCDPE



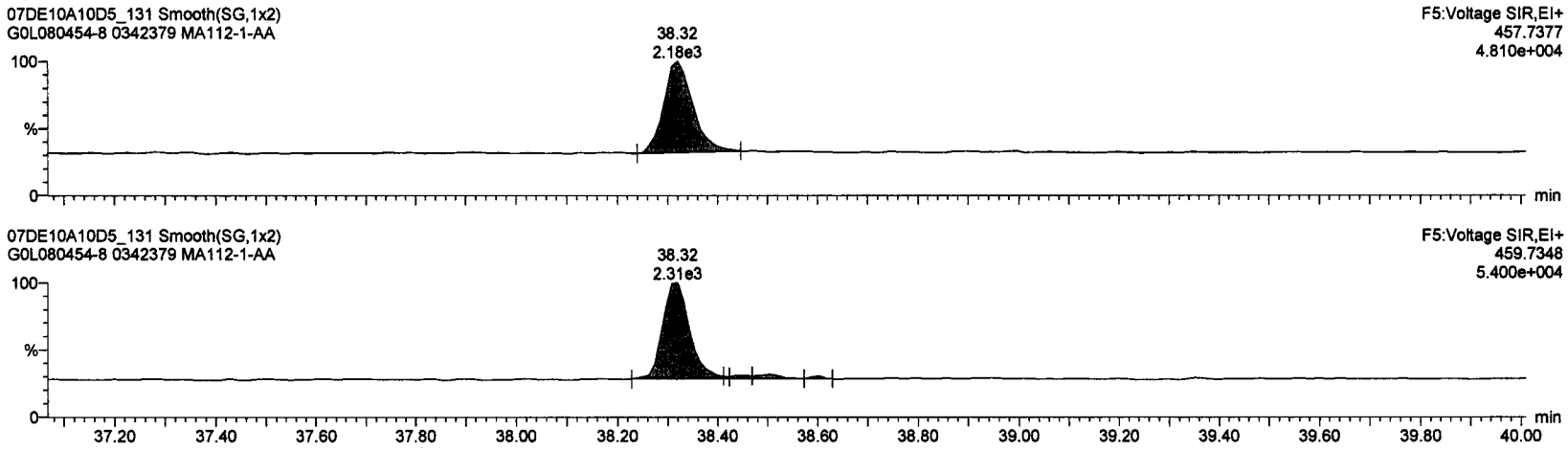
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

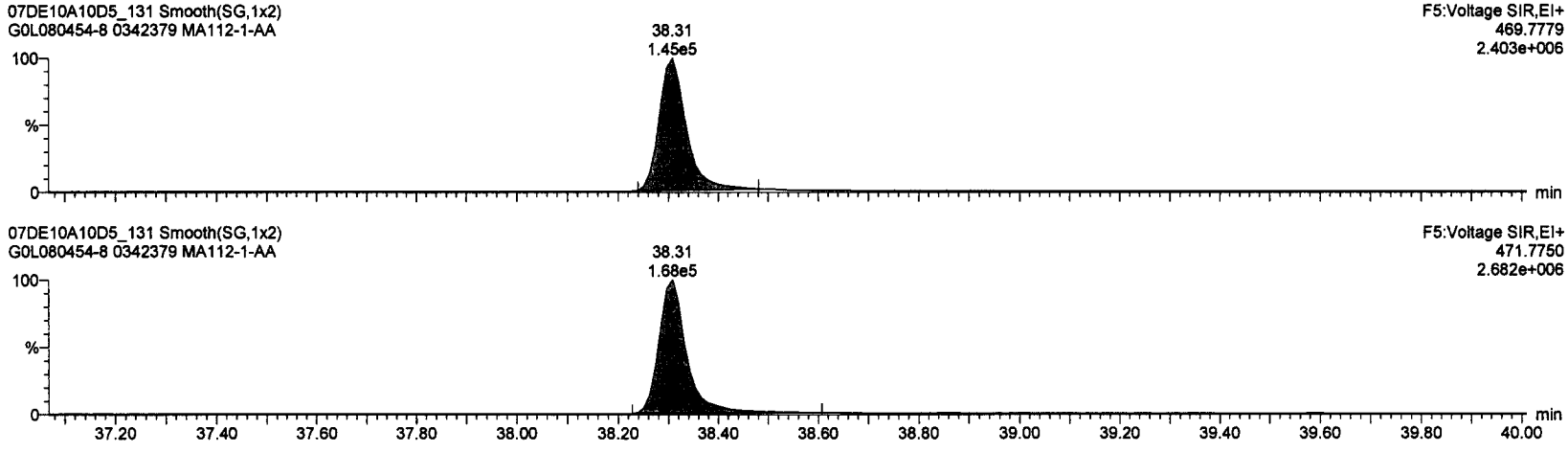
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

OCDD



13C-OCDD



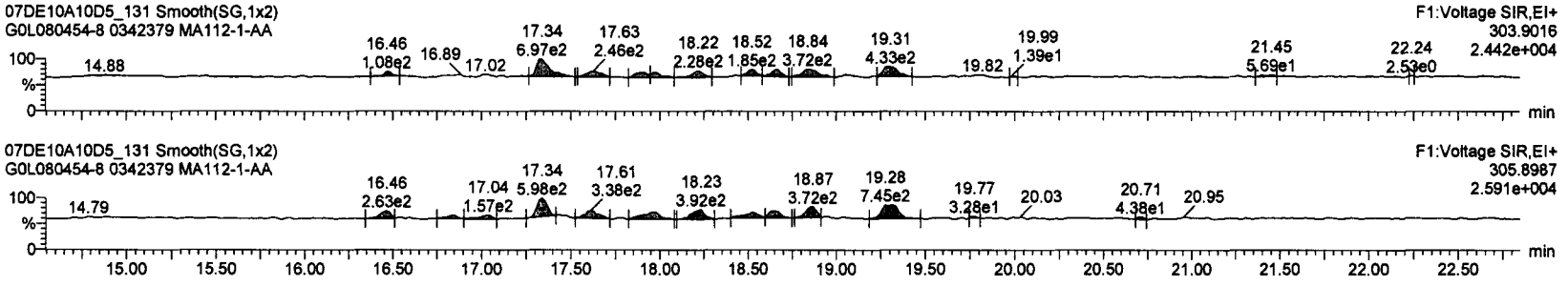
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

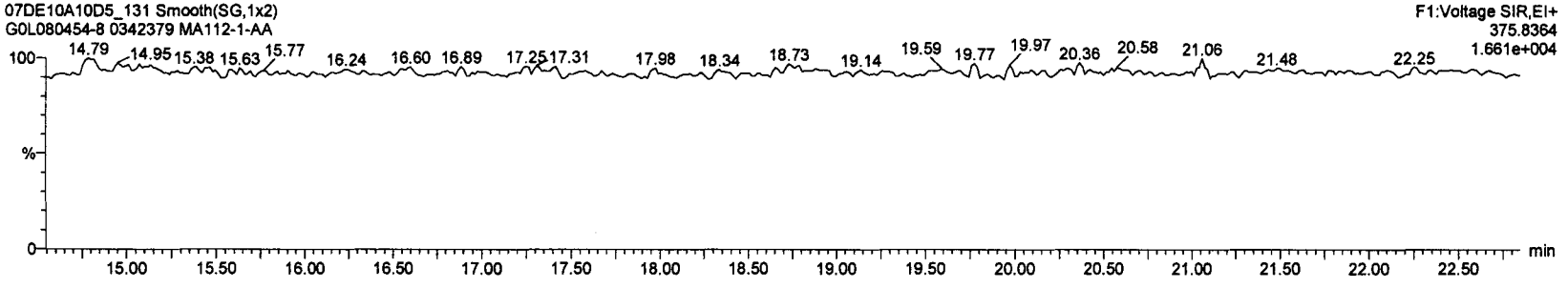
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

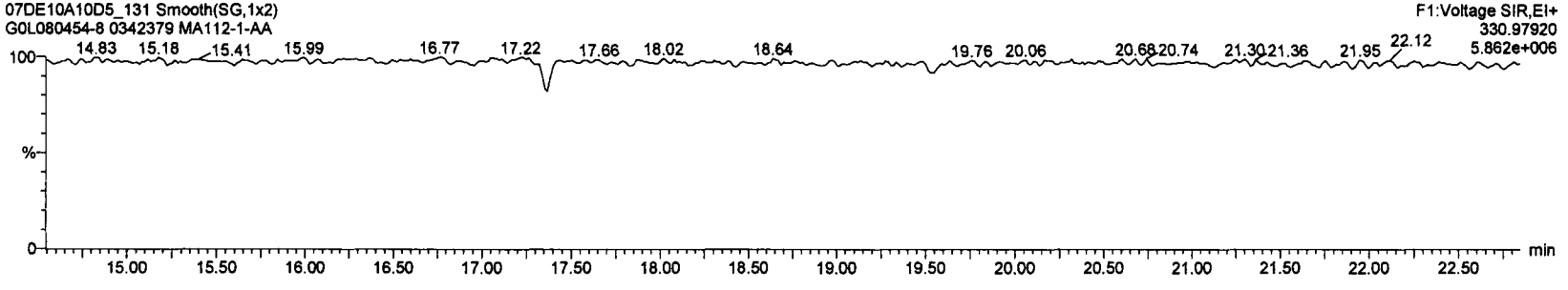
TCDFs



TCDF PCDPE



Function 1 PFK



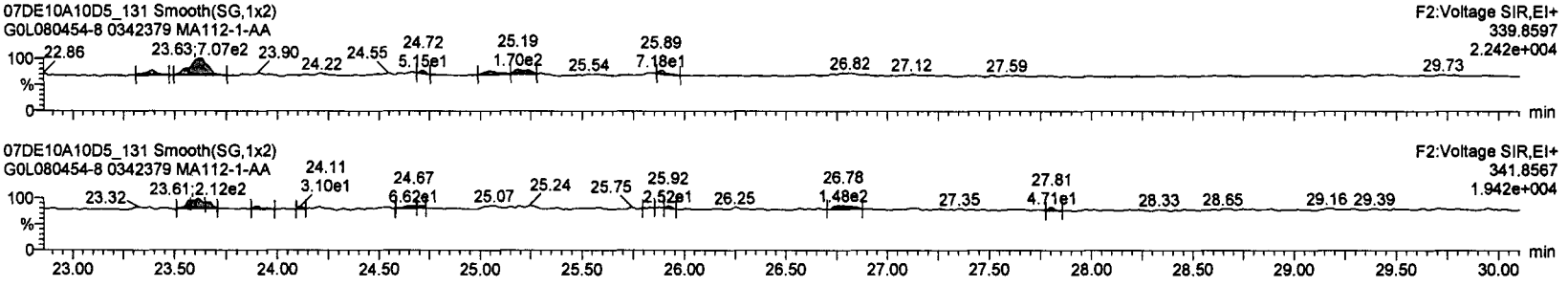
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

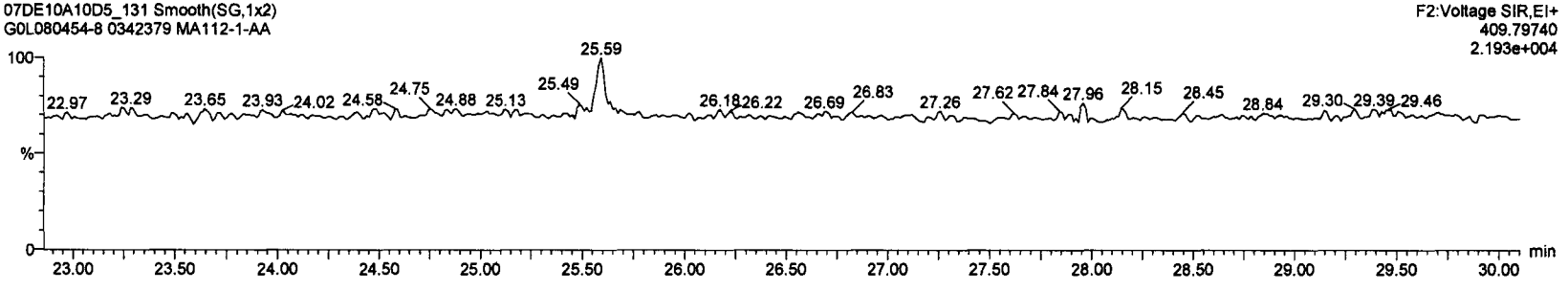
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

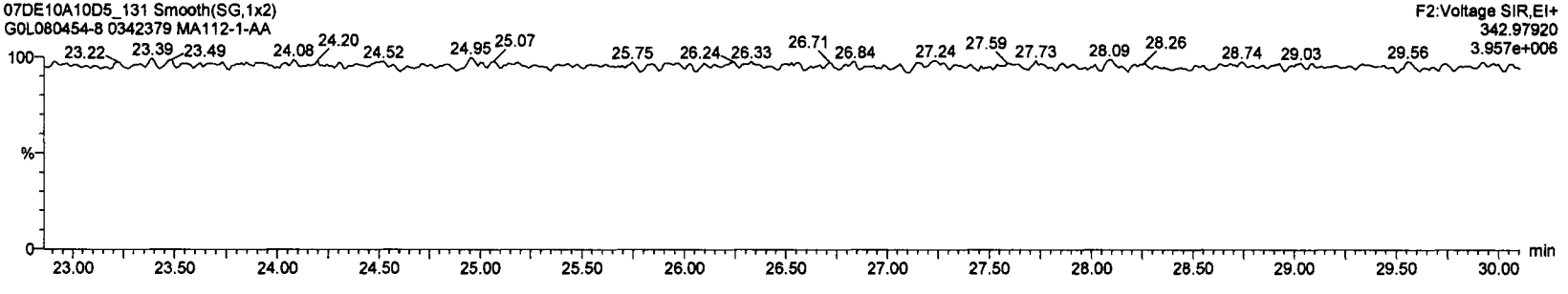
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



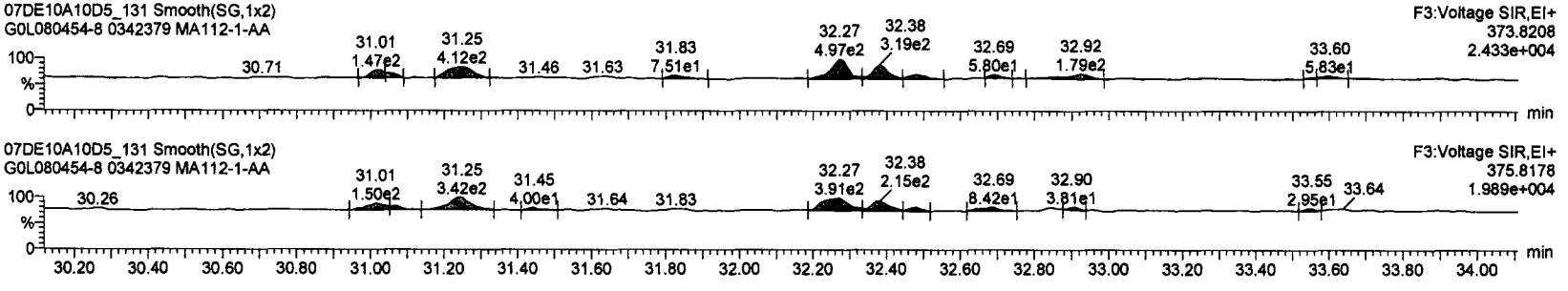
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

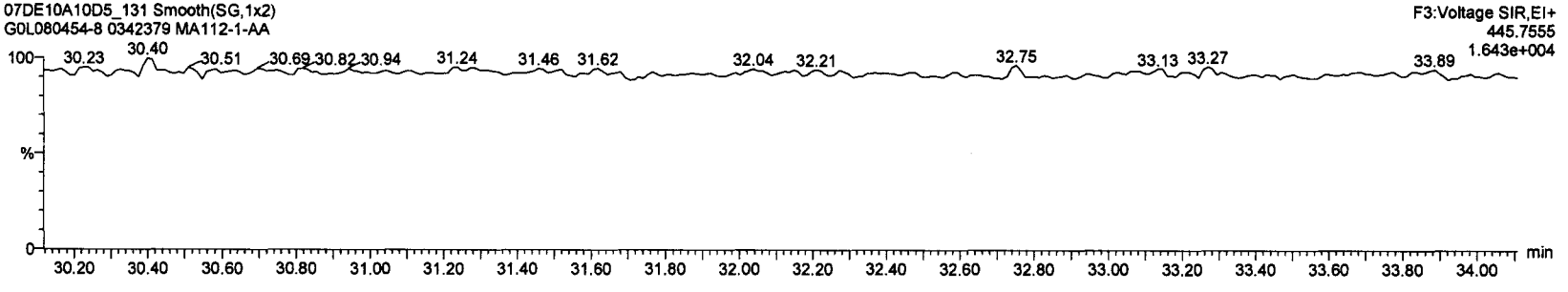
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

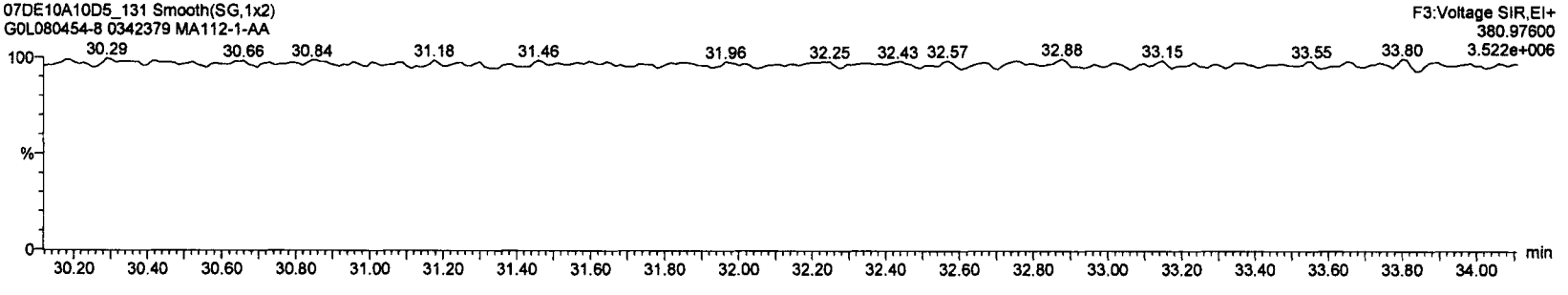
HxCDFs



HxCDF PCDPE



Function 3 PFK



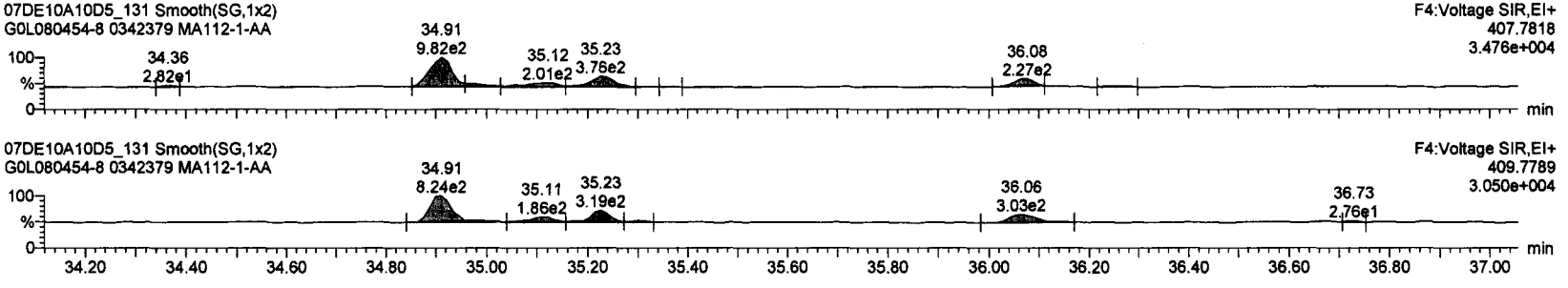
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

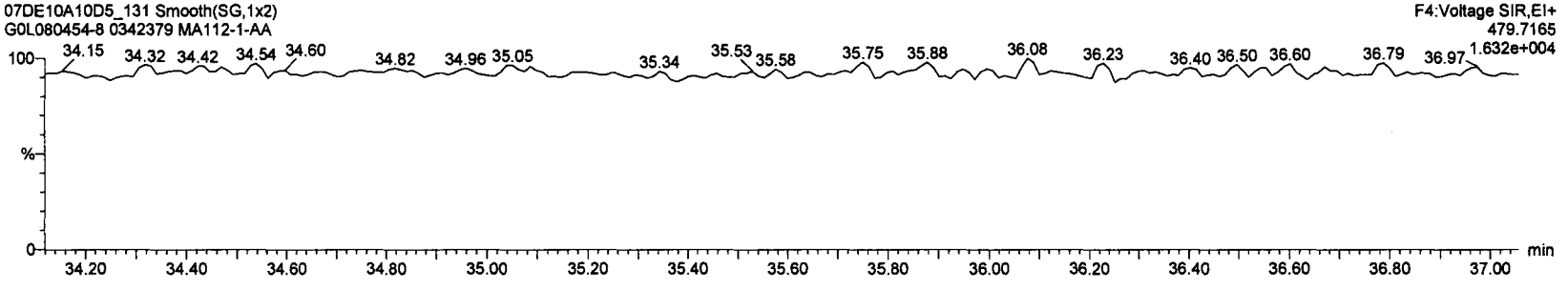
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

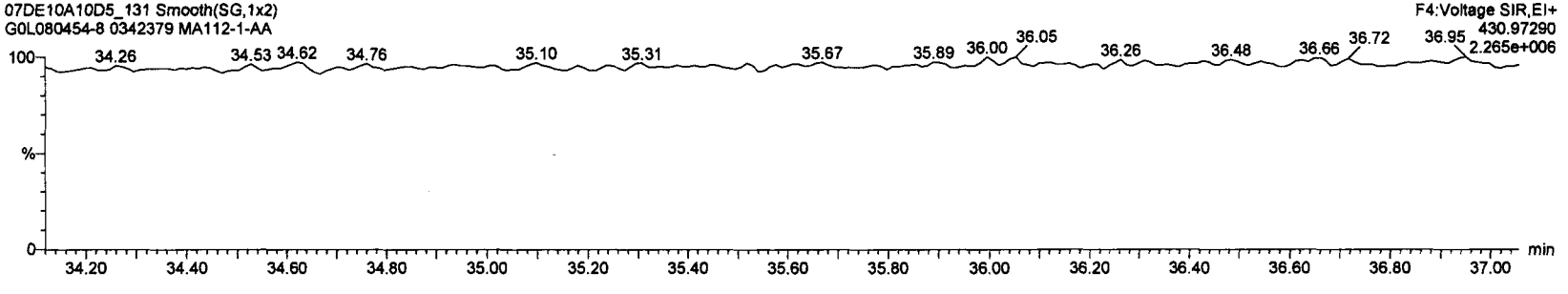
HpCDFs



HpCDF PCDPE



Function 4 PFK



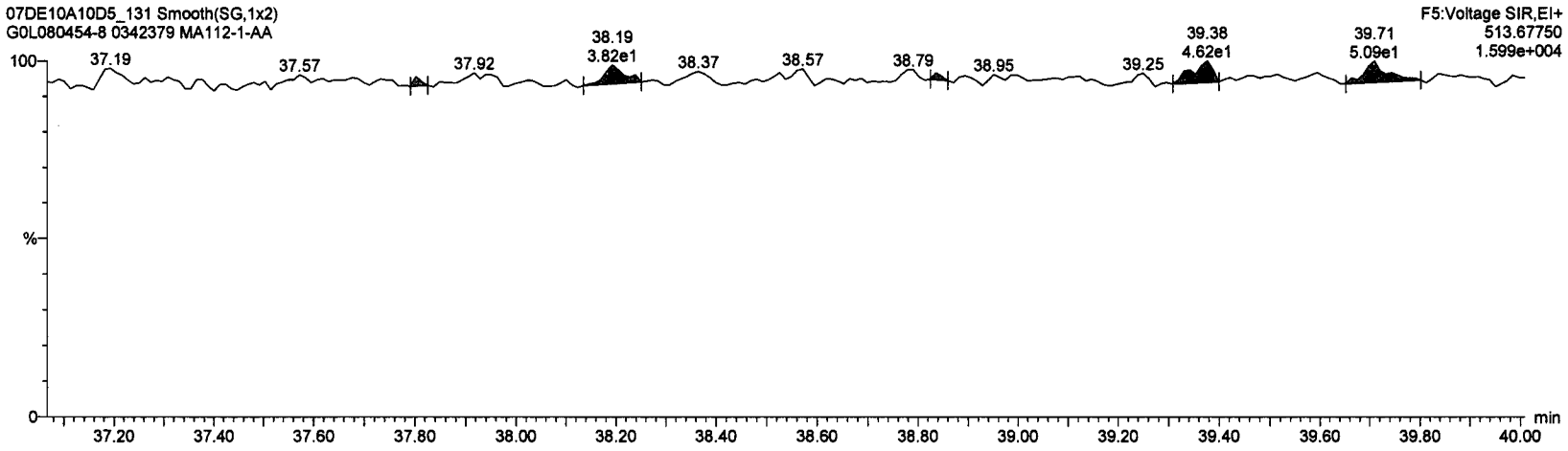
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

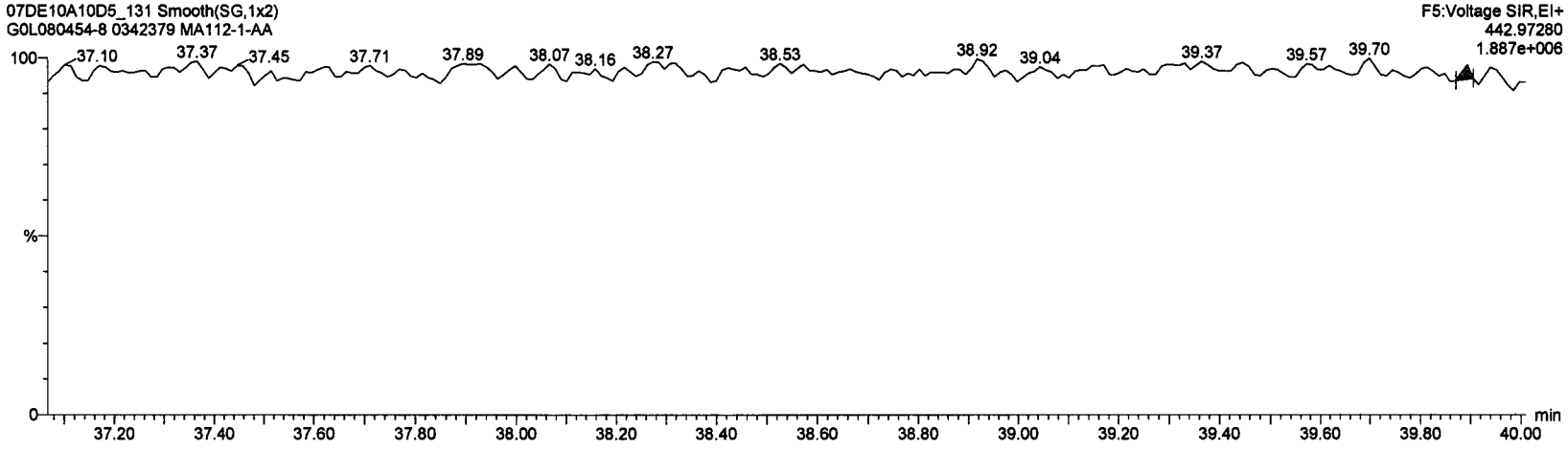
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_131, Date: 11-Dec-2010, Time: 19:48:33, ID: MA112-1-AA, Description: G0L080454-8 0342379

OCDF PCDPE



Function 5 PFK



Quantify Sample Summary Report **MassLynx 4.1 SCN 714 Desktop**

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:41:22 Pacific Standard Time

12/15/10 ms

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

	Name	Conc Trgt	Sample Size	RT	Rel RT	RRF	Abs Resp	Conc	EMPC	Sel	EDL	Ratio	Rel Ratio	Ra	Reg	Mod Date	
1	13C-1,2,3,4-TCDD	331.9368	0.50000	19.88	19.87	1.000	372816.73	4000.0000	4000.0000	100.0	5.8732	0.792	0.770		NO		
2																	
3	13C-2,3,7,8-TCDF	315.9419	0.50000	19.26	19.26	1.312	448682.92	3669.1161	3669.1161	91.7	3.6538	0.798	0.770		NO		
4	2,3,7,8-TCDF	303.9016	0.50000	19.31	19.26	0.998	2723.15	24.3339	24.3339	~~se~~	1.6473	0.807	0.770		NO		
5	Total TCDFs	303.9016	0.50000		21.44	0.998		227.7056	222.0901	✓	1.6473						
6																	
7	13C-2,3,7,8-TCDD	331.9368	0.50000	20.09	20.10	0.909	329258.98	3884.6761	3884.6761	97.1	6.4585	0.796	0.770		NO		
8	2,3,7,8-TCDD	319.8965	0.50000		20.11	1.035					1.8854		0.770				
9	Total TCDDs	319.8965	0.50000		22.69	1.035		9.4876	8.7143	✓	1.8854						
10																	
11	37CL-2,3,7,8-TCDD	327.8847	0.50000	20.11	20.09	0.655	84456.41	1565.7373	0.0000	97.9	3.3062						
12																	
13	13C-1,2,3,7,8-PeCDF	351.9000	0.50000	25.20	24.93	1.024	324343.91	3399.0908	3399.0908	85.0	6.2096	1.589	1.550		NO		
14	1,2,3,7,8-PeCDF	339.8597	0.50000		25.20	1.092					3.0185		1.550				
15	2,3,4,7,8-PeCDF	339.8597	0.50000		26.73	1.064					3.0966		1.550				
16	Total F2 PeCDFs	339.8597	0.50000		34.47	1.078		18.4879	18.4879		3.0571						
17	Total F1 PeCDFs	339.8597	0.50000		36.56	1.078		8.4677	7.7914		2.5241						
18									.3793 ✓ 26~~.843~~ 12/15/10 ms								
19	13C-1,2,3,7,8-PeCDD	367.8949	0.50000	27.62	27.30	0.734	233018.43	3404.0227	3404.0227	85.1	3.4580	1.527	1.550		NO		
20	1,2,3,7,8-PeCDD	355.8546	0.50000		27.62	0.960					3.5633		1.550				
21	Total PeCDDs	355.8546	0.50000		31.10	0.960		0.4813	~~0.3148~~		3.5633						
22																	
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.50000	33.37	33.27	1.000	239701.36	4000.0000	4000.0000	100.0	4.6326	1.269	1.240		NO		
24																	
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.50000	32.26	32.23	1.049	241807.87	3845.1578	3845.1578	96.1	7.5092	0.529	0.510		NO		
26	1,2,3,4,7,8-HxCDF	373.8208	0.50000	32.27	32.26	1.313	488.64	6.1581	6.1581	J	1.3802	1.295	1.240		NO	15-Dec-10	
27	1,2,3,6,7,8-HxCDF	373.8208	0.50000	32.37	32.38	1.438	410.03	4.7168	4.7168	J	1.2598	1.078	1.240		NO		
28	2,3,4,6,7,8-HxCDF	373.8208	0.50000	32.91	32.92	1.352	116.89	1.4298	1.4298	m	1.3396	1.247	1.240		NO		< 5:N
29	1,2,3,7,8,9-HxCDF	373.8208	0.50000	33.54	33.56	1.198	41.73	0.5765	~~0.3628~~		1.5128	0.534	1.240		YES		
30	Total HxCDFs	373.8208	0.50000		0.00	1.325		27.6620	~~25.5411~~ 23.311 ✓		1.3671						

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:41:22 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

#	Name	Type	Cmpd Trgt	Sample Size	RT	Prod RT	RRF	Mtd	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Prd Ratio	Ra	Flag	Mod Date
31																		
32	13C-1,2,3,6,7,8-HxCDD		401.8559	0.50000	33.11	33.10	0.905		217839.34	4018.8897	4018.8897	100.5	5.1215	1.260	1.240		NO	
33	1,2,3,4,7,8-HxCDD		389.8157	0.50000		33.04	0.982						1.7154		1.240			
34	1,2,3,6,7,8-HxCDD		389.8157	0.50000		33.11	1.094						1.5387		1.240			
35	1,2,3,7,8,9-HxCDD		389.8157	0.50000		33.38	1.058						1.5916		1.240			
36	Total HxCDDs		389.8157	0.50000		0.00	1.045			3.1118	2.6062	✓	1.6119					
37																		
38	13C-1,2,3,4,6,7,8-HpCDF		417.8253	0.50000	34.90	34.91	0.954		212548.10	3718.2753	3718.2753	93.0	7.6518	0.472	0.440		NO	
39	1,2,3,4,6,7,8-HpCDF		407.7818	0.50000	34.91	34.90	1.463		1087.51	13.9911	13.9911	J	1.2895	1.108	1.040		NO	
40	1,2,3,4,7,8,9-HpCDF		407.7818	0.50000	36.08	36.07	1.231		242.01	3.7004	3.7004	J	1.5325	1.053	1.040		NO	
41	Total HpCDFs		407.7818	0.50000		0.00	1.347			24.1497	24.1497	✓	1.4005					
42																		
43	13C-1,2,3,4,6,7,8-HpCDD		435.8169	0.50000	35.73	35.75	0.848		187550.66	3689.1573	3689.1573	92.2	6.5212	1.075	1.040		NO	
44	1,2,3,4,6,7,8-HpCDD		423.7766	0.50000	35.74	35.73	1.055		658.23	13.3125	13.3125	J	1.6776	1.007	1.040		NO	
45	Total HpCDDs		423.7766	0.50000		0.08	1.055			27.6579	25.6975	✓	1.6776					
46																		
47	13C-OCDD		469.7779	0.50000	38.30	38.35	0.675		287483.14	7110.9440	7110.9440	88.9	8.3823	0.912	0.890		NO	
48	OCDF		441.7428	0.50000	38.44	38.42	1.486		1283.92	24.0418	21.3169	JQ	2.1371	1.132	0.890		YES	
49	OCDD		457.7377	0.50000	38.32	38.30	1.146		1832.89	44.4999	44.4999	J	2.2944	0.931	0.890		NO	
50																		
51																		
52	Function 1 PFK		330.97920	1.00000		38.25												
53	Function 2 PFK		342.97920	1.00000		38.25												
54	Function 3 PFK		380.97600	1.00000		38.25												
55	Function 4 PFK		430.97290	1.00000		38.25												
56	Function 5 PFK		442.97280	1.00000		0.00												
57	TCDF PCDPE		375.8364	1.00000		38.25												
58	F1 PeCDF PCDPE		409.79740	1.00000		38.25												
59	F2 PeCDF PCDPE		409.79740	1.00000		38.25												
60	HXCDF PCDPE		445.7555	1.00000		38.25												
61	HPCDF PCDPE		479.7165	1.00000		38.25												
62	OCDF PCDPE		513.67750	1.00000		0.00												

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:41:22 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

Total TCDFs

	#	Name	Trans	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd Ratio	Ratio	S/N
1	5	Total TCDFs	303.9016	17.34	6060.564	54.1567	54.1567	0.99766	1.6473	0.795	0.770	NO	129.155
2	5	Total TCDFs	303.9016	17.02	407.874	3.6447	3.6447	0.99766	1.6473	0.856	0.770	NO	9.521
3	5	Total TCDFs	303.9016	16.84	431.023	3.8516	3.5605	0.99766	1.6473	0.915	0.770	YES	11.074
4	5	Total TCDFs	303.9016	16.46	1805.206	16.1312	16.1312	0.99766	1.6473	0.858	0.770	NO	47.328
5	4	2,3,7,8-TCDF	303.9016	19.31	2723.154	24.3339	24.3339	0.99766	1.6473	0.807	0.770	NO	56.191
6	5	Total TCDFs	303.9016	18.85	2311.457	20.6550	20.6550	0.99766	1.6473	0.809	0.770	NO	49.600
7	5	Total TCDFs	303.9016	18.64	2279.730	20.3715	20.3715	0.99766	1.6473	0.758	0.770	NO	50.456
8	5	Total TCDFs	303.9016	18.53	2098.924	18.7558	18.7558	0.99766	1.6473	0.799	0.770	NO	41.025
9	5	Total TCDFs	303.9016	18.23	2266.401	20.2524	20.2524	0.99766	1.6473	0.758	0.770	NO	50.525
10	5	Total TCDFs	303.9016	17.98	1532.795	13.6969	11.2295	0.99766	1.6473	1.159	0.770	YES	30.697
11	5	Total TCDFs	303.9016	17.89	915.547	8.1813	5.3242	0.99766	1.6473	0.395	0.770	YES	30.340
12	5	Total TCDFs	303.9016	17.63	2649.387	23.6747	23.6747	0.99766	1.6473	0.807	0.770	NO	49.144

Total TCDDs

	#	Name	Trans	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd Ratio	Ratio	S/N
1	9	Total TCDDs	319.8965	17.85	514.782	6.0444	6.0444	1.03464	1.8854	0.793	0.770	NO	11.382
2	9	Total TCDDs	319.8965	17.49	293.245	3.4432	2.6698	1.03464	1.8854	0.509	0.770	YES	6.936

Total F2 PeCDFs

	#	Name	Trans	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd Ratio	Ratio	S/N
1	1.	Total F2 PeCD...	339.8597	23.60	1615.852	18.4879	18.4879	1.07787	3.0571	1.436	1.550	NO	12.311

Total F1 PeCDFs

	#	Name	Trans	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd Ratio	Ratio	S/N
1	1.	Total F1 PeCD...	339.8597	21.77	740.084	8.4677	7.7914	1.07787	2.5241	1.269	1.550	YES	8.061

Total PeCDDs

	#	Name	Trans	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Prd Ratio	Ratio	S/N
1	2.	Total PeCDDs	355.8546	24.70	26.926	0.4813	0.3148	0.96030	3.5633	2.899	1.550	YES	1.343

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:41:22 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

Total HxCDFs

23.311

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	2.	2,3,4,6,7,8-Hx...	373.8208	32.91	116.889	1.4298	1.4298	1.35233	1.3396	1.247	1.240	NO	4.260
2	3.	Total HxCDFs	373.8208	32.48	106.063	1.3240	~~0.1403~~	1.32511	1.3671	20.136	1.240	YES	0.846
3	2.	1,2,3,6,7,8-Hx...	373.8208	32.37	410.031	4.7168	4.7168	1.43801	1.2598	1.078	1.240	NO	13.859
4	2.	1,2,3,4,7,8-Hx...	373.8208	32.27	488.642	6.1581	6.1581	1.31260	1.3802	1.295	1.240	NO	14.157
5	3.	Total HxCDFs	373.8208	31.25	695.422	8.6813	8.6813	1.32511	1.3671	1.263	1.240	NO	14.431
6	3.	Total HxCDFs	373.8208	31.02	334.733	4.1786	3.7549	1.32511	1.3671	1.493	1.240	YES	7.314
7	3.	Total HxCDFs	373.8208	33.62	47.809	0.5968	~~0.2876~~	1.32511	1.3671	0.381	1.240	YES	2.381
8	2.	1,2,3,7,8,9-Hx...	373.8208	33.54	41.732	0.5765	~~0.3623~~	1.19752	1.5128	0.534	1.240	YES	1.834

< 5:1

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	3.	Total HxCDDs	389.8157	32.51	177.015	3.1118	2.6062	1.04453	1.6119	0.864	1.240	YES	6.184

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	4.	1,2,3,4,7,8,9-H...	407.7818	36.08	242.012	3.7004	3.7004	1.23081	1.5325	1.053	1.040	NO	8.510
2	4.	Total HpCDFs	407.7818	35.23	278.792	3.8956	3.8956	1.34680	1.4005	0.907	1.040	NO	12.725
3	4.	Total HpCDFs	407.7818	35.11	183.384	2.5625	2.5625	1.34680	1.4005	1.065	1.040	NO	8.130
4	3.	1,2,3,4,6,7,8-H...	407.7818	34.91	1087.515	13.9911	13.9911	1.46280	1.2895	1.108	1.040	NO	46.493

Total HpCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	Prd Ra...	Ratio...	S/N
1	4.	1,2,3,4,6,7,8-H...	423.7766	35.74	658.233	13.3125	13.3125	1.05453	1.6776	1.007	1.040	NO	36.621
2	4.	Total HpCDDs	423.7766	35.16	709.298	14.3453	12.3850	1.05453	1.6776	1.363	1.040	YES	38.804

Soil & Tissue Units = pg/g; Water Units = pg/L; Air & Waste Units = pg/Sample

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld (14)

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379, Task:

#	Name	Trace	Sample Size	RT	Pre RT	RRF M...	Abd Resp	Conc	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.500	19.88	19.87	1.00000	372816.73	4000.0000	4000.0000	100.0	5.87322	0.79	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.500	19.26	19.26	1.31203	448682.92	3669.1161	3669.1161	91.7	3.65379	0.80	NO	
4	2,3,7,8-TCDF	303.9016	0.500	19.31	19.26	0.99766	2723.15	24.3339	24.3339		1.64731	0.81	NO	
5	Total TCDFs	303.9016	0.500		21.44	0.99766		232.9700	225.3805		1.64731			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.500	20.09	20.10	0.90938	329258.98	3884.6761	3884.6761	97.1	6.45846	0.80	NO	
8	2,3,7,8-TCDD	319.8965	0.500		20.11	1.03464					1.88540		NO	
9	Total TCDDs	319.8965	0.500		22.69	1.03464		9.4876	8.7143		1.88540			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.500	20.11	20.09	0.65529	84456.41	1565.7373	0.0000	97.9	3.30622			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.500	25.20	24.93	1.02378	324343.91	3399.0908	3399.0908	85.0	6.20957	1.59	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.500	25.20	25.20	1.09163	217.34	2.4554	1.7877		3.01852	0.79	YES	
15	2,3,4,7,8-PeCDF	339.8597	0.500	26.84	26.73	1.06412	55.98	0.6488	0.1670		3.09658	0.19	YES	
16	Total F2 PeCDFs	339.8597	0.500		34.47	1.07787		28.3080	19.3348		3.05705			
17	Total F1 PeCDFs	339.8597	0.500		36.56	1.07787		8.4677	7.7914		2.52412			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.500	27.62	27.30	0.73445	233018.43	3404.0227	3404.0227	85.1	3.45805	1.53	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.500		27.62	0.96030					3.56331		NO	
21	Total PeCDDs	355.8546	0.500		31.10	0.96030		0.4813	0.3148		3.56331			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.500	33.37	33.27	1.00000	239701.36	4000.0000	4000.0000	100.0	4.63255	1.27	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.500	32.26	32.23	1.04941	241807.87	3845.1578	3845.1578	96.1	7.50918	0.53	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.500	32.27	32.26	1.31260	541.84	6.8285	6.0099		1.38017	1.55	YES	
27	1,2,3,6,7,8-HxCDF	373.8208	0.500	32.37	32.38	1.43801	410.03	4.7168	4.7168		1.25980	1.08	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.500	32.91	32.92	1.35233	116.89	1.4298	1.4298		1.33962	1.25	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.500	33.54	33.56	1.19752	41.73	0.5765	0.3623		1.51280	0.53	YES	
30	Total HxCDFs	373.8208	0.500		0.00	1.32511		34.2761	29.1542		1.36713			
31														
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.500	33.11	33.10	0.90452	217839.34	4018.8897	4018.8897	100.5	5.12154	1.26	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.500		33.04	0.98150					1.71542		NO	
34	1,2,3,6,7,8-HxCDD	389.8157	0.500		33.11	1.09425					1.53867		NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.500		33.38	1.05784					1.59163		NO	

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379, Task:

#	Name	Trace	Sample Size	RT	Prg RT	RRF M...	Abs Resp	Conc	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
36	Total HxCDDs	389.8157	0.500		0.00	1.04453		9.0907	5.5015		1.61191			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.500	34.90	34.91	0.95391	212548.10	3718.2753	3718.2753	93.0	7.65179	0.47	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.500	34.91	34.90	1.46280	1087.51	13.9911	13.9911		1.28949	1.11	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.500	36.08	36.07	1.23081	242.01	3.7004	3.7004		1.53254	1.05	NO	
41	Total HpCDFs	407.7818	0.500		0.00	1.34680		24.1497	24.1497		1.40055			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.500	35.73	35.75	0.84836	187550.66	3689.1573	3689.1573	92.2	6.52123	1.07	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.500	35.74	35.73	1.05453	658.23	13.3125	13.3125		1.67759	1.01	NO	
45	Total HpCDDs	423.7766	0.500		0.08	1.05453		27.6579	25.6975		1.67759			
46														
47	13C-OCDD	469.7779	0.500	38.30	38.35	0.67464	287483.14	7110.9440	7110.9440	88.9	8.38226	0.91	NO	
48	OCDF	441.7428	0.500	38.44	38.42	1.48610	1283.92	24.0418	21.3169		2.13705	1.13	YES	
49	OCDD	457.7377	0.500	38.32	38.30	1.14618	1832.89	44.4999	44.4999		2.29445	0.93	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		38.25									
53	Function 2 PFK	342.97920	1.000		38.25									
54	Function 3 PFK	380.97600	1.000		38.25									
55	Function 4 PFK	430.97290	1.000		38.25									
56	Function 5 PFK	442.97280	1.000		0.00									
57	TCDF PCDPE	375.8364	1.000		38.25									
58	F1 PeCDF PCDPE	409.79740	1.000		38.25									
59	F2 PeCDF PCDPE	409.79740	1.000		38.25									
60	HXCDF PCDPE	445.7555	1.000		38.25									
61	HPCDF PCDPE	479.7165	1.000		38.25									
62	OCDF PCDPE	513.67750	1.000		0.00									

G0L080454

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379, Task:

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Pratio	Ratio Flag	S/N
1	5	Total TCDFs	303.9016	17.34	6060.564	54.1567	54.1567	0.99766	1.6473	0.795	0.770	NO	129.155
2	5	Total TCDFs	303.9016	17.02	407.874	3.6447	3.6447	0.99766	1.6473	0.856	0.770	NO	9.521
3	5	Total TCDFs	303.9016	16.84	431.023	3.8516	3.5605	0.99766	1.6473	0.915	0.770	YES	11.074
4	5	Total TCDFs	303.9016	16.46	1805.206	16.1312	16.1312	0.99766	1.6473	0.858	0.770	NO	47.328
5	5	Total TCDFs	303.9016	19.76	204.528	1.8276	1.1013	0.99766	1.6473	1.937	0.770	YES	5.823
6	4	2,3,7,8-TCDF	303.9016	19.31	2723.154	24.3339	24.3339	0.99766	1.6473	0.807	0.770	NO	56.191
7	5	Total TCDFs	303.9016	19.11	384.606	3.4368	2.1891	0.99766	1.6473	1.779	0.770	YES	8.183
8	5	Total TCDFs	303.9016	18.85	2311.457	20.6550	20.6550	0.99766	1.6473	0.809	0.770	NO	49.600
9	5	Total TCDFs	303.9016	18.64	2279.730	20.3715	20.3715	0.99766	1.6473	0.758	0.770	NO	50.456
10	5	Total TCDFs	303.9016	18.53	2098.924	18.7558	18.7558	0.99766	1.6473	0.799	0.770	NO	41.025
11	5	Total TCDFs	303.9016	18.23	2266.401	20.2524	20.2524	0.99766	1.6473	0.758	0.770	NO	50.525
12	5	Total TCDFs	303.9016	17.98	1532.795	13.6969	11.2295	0.99766	1.6473	1.159	0.770	YES	30.697
13	5	Total TCDFs	303.9016	17.88	915.547	8.1813	5.3242	0.99766	1.6473	0.395	0.770	YES	30.340
14	5	Total TCDFs	303.9016	17.63	2649.387	23.6747	23.6747	0.99766	1.6473	0.807	0.770	NO	49.144

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Pratio	Ratio Flag	S/N
1	9	Total TCDDs	319.8965	17.85	514.782	6.0444	6.0444	1.03464	1.8854	0.793	0.770	NO	11.382
2	9	Total TCDDs	319.8965	17.49	293.245	3.4432	2.6698	1.03464	1.8854	0.509	0.770	YES	6.936

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Pratio	Ratio Flag	S/N
1	16	Total F2 PeCD...	339.8597	24.53	132.551	1.5166	0.4772	1.07787	3.0571	7.105	1.550	YES	1.762
2	16	Total F2 PeCD...	339.8597	24.20	120.178	1.3750	0.4650	1.07787	3.0571	6.541	1.550	YES	1.305
3	16	Total F2 PeCD...	339.8597	23.60	1356.751	15.5234	11.7921	1.07787	3.0571	2.357	1.550	YES	11.852
4	16	Total F2 PeCD...	339.8597	23.39	114.352	1.3084	1.1225	1.07787	3.0571	1.972	1.550	YES	3.633
5	16	Total F2 PeCD...	339.8597	23.37	129.196	1.4782	1.1876	1.07787	3.0571	0.954	1.550	YES	4.508
6	15	2,3,4,7,8-PeCDF	339.8597	26.84	55.980	0.6488	0.1670	1.06412	3.0966	0.185	1.550	YES	3.746
7	14	1,2,3,7,8-PeCDF	339.8597	25.20	217.341	2.4554	1.7877	1.09163	3.0185	0.794	1.550	YES	4.734
8	16	Total F2 PeCD...	339.8597	24.72	85.156	0.9743	0.8034	1.07787	3.0571	2.092	1.550	YES	1.878
9	16	Total F2 PeCD...	339.8597	24.65	264.639	3.0279	1.5322	1.07787	3.0571	4.039	1.550	YES	3.753

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379, Task:

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	17	Total F1 PeCD...	339.8597	21.77	740.084	8.4677	7.7914	1.07787	2.5241	1.269	1.550	YES	8.061

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	21	Total PeCDDs	355.8546	24.70	26.926	0.4813	0.3148	0.96030	3.5633	2.899	1.550	YES	1.343

Total HxCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	28	2,3,4,6,7,8-Hx...	373.8208	32.91	116.889	1.4298	1.4298	1.35233	1.3396	1.247	1.240	NO	4.260
2	30	Total HxCDFs	373.8208	32.86	116.397	1.4530	~~1.0572~~	1.32511	1.3671	0.674	1.240	YES	6.035
3	30	Total HxCDFs	373.8208	32.65	98.942	1.2351	~~0.4446~~	1.32511	1.3671	0.249	1.240	YES	3.976
4	30	Total HxCDFs	373.8208	32.48	106.063	1.3240	~~0.1403~~	1.32511	1.3671	20.137	1.240	YES	0.846
5	27	1,2,3,6,7,8-Hx...	373.8208	32.37	410.031	4.7168	4.7168	1.43801	1.2598	1.078	1.240	NO	13.859
6	26	1,2,3,4,7,8-Hx...	373.8208	32.27	541.838	6.8285	6.0099	1.31260	1.3802	1.545	1.240	YES	14.157
7	30	Total HxCDFs	373.8208	31.82	143.343	1.7894	~~1.3048~~	1.32511	1.3671	2.072	1.240	YES	2.361
8	30	Total HxCDFs	373.8208	31.64	105.051	1.3114	1.1456	1.32511	1.3671	1.564	1.240	YES	3.161
9	30	Total HxCDFs	373.8208	31.46	49.219	0.6144	~~0.2098~~	1.32511	1.3671	5.562	1.240	YES	1.539
10	30	Total HxCDFs	373.8208	31.25	695.422	8.6813	8.6813	1.32511	1.3671	1.263	1.240	NO	14.431
11	30	Total HxCDFs	373.8208	31.05	161.679	2.0183	2.0183	1.32511	1.3671	1.376	1.240	NO	6.378
12	30	Total HxCDFs	373.8208	31.02	136.228	1.7006	~~1.3359~~	1.32511	1.3671	1.852	1.240	YES	5.255
13	30	Total HxCDFs	373.8208	33.61	47.809	0.5968	0.2976	1.32511	1.3671	0.381	1.240	YES	2.381
14	29	1,2,3,7,8,9-Hx...	373.8208	33.54	41.732	0.5765	~~0.3623~~	1.19752	1.5128	0.534	1.240	YES	1.834

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1													

m

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:26:28 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379, Task:

Total HxCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	36	Total HxCDDs	389.8157	32.51	177.015	3.1118	2.6062	1.04453	1.6119	0.864	1.240	YES	6.184
2	36	Total HxCDDs	389.8157	32.36	80.975	1.4235	0.2611	1.04453	1.6119	11.213	1.240	YES	1.024
3	36	Total HxCDDs	389.8157	32.28	117.919	2.0729	0.8878	1.04453	1.6119	4.230	1.240	YES	2.301
4	36	Total HxCDDs	389.8157	31.74	114.080	2.0054	1.5394	1.04453	1.6119	1.918	1.240	YES	3.337
5	36	Total HxCDDs	389.8157	30.68	27.137	0.4770	0.2071	1.04453	1.6119	4.160	1.240	YES	0.918

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N

Total HpCDFs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	40	1,2,3,4,7,8,9-H...	407.7818	36.08	242.012	3.7004	3.7004	1.23081	1.5325	1.053	1.040	NO	8.510
2	41	Total HpCDFs	407.7818	35.23	278.792	3.8956	3.8956	1.34680	1.4005	0.907	1.040	NO	12.725
3	41	Total HpCDFs	407.7818	35.11	183.384	2.5625	2.5625	1.34680	1.4005	1.065	1.040	NO	8.130
4	39	1,2,3,4,6,7,8-H...	407.7818	34.91	1087.515	13.9911	13.9911	1.46280	1.2895	1.108	1.040	NO	46.493

Total HpCDDs

	#	Name	Trace	RT	Abs Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	PRratio	Ratio Flag	S/N
1	44	1,2,3,4,6,7,8-H...	423.7766	35.74	658.233	13.3125	13.3125	1.05453	1.6776	1.007	1.040	NO	36.621
2	45	Total HpCDDs	423.7766	35.16	709.298	14.3453	12.3850	1.05453	1.6776	1.363	1.040	YES	38.804

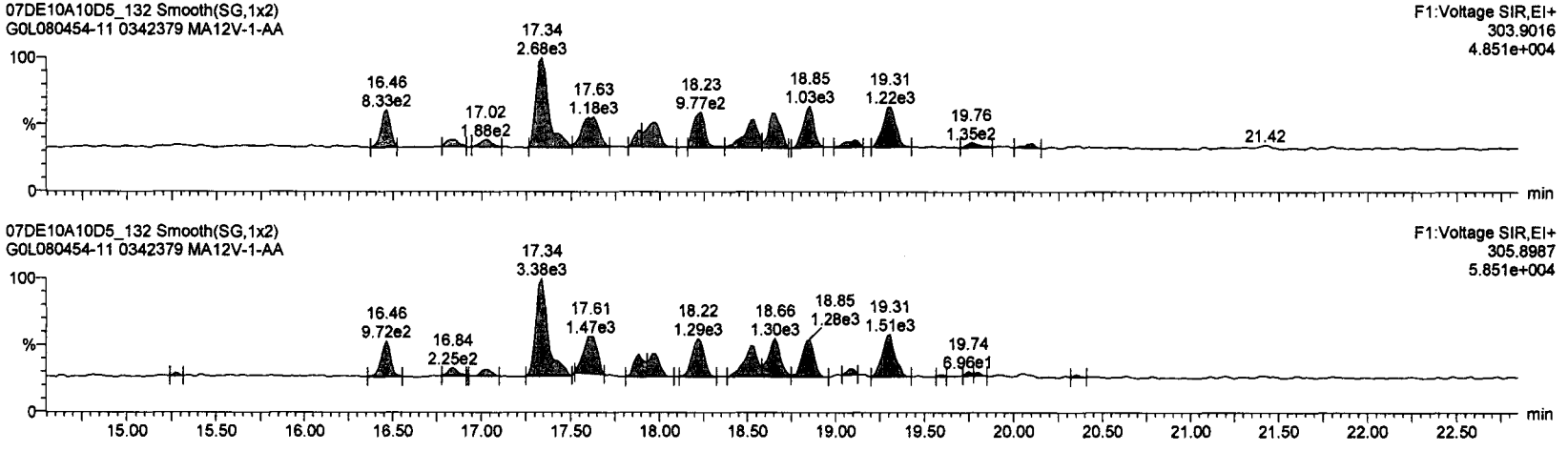
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

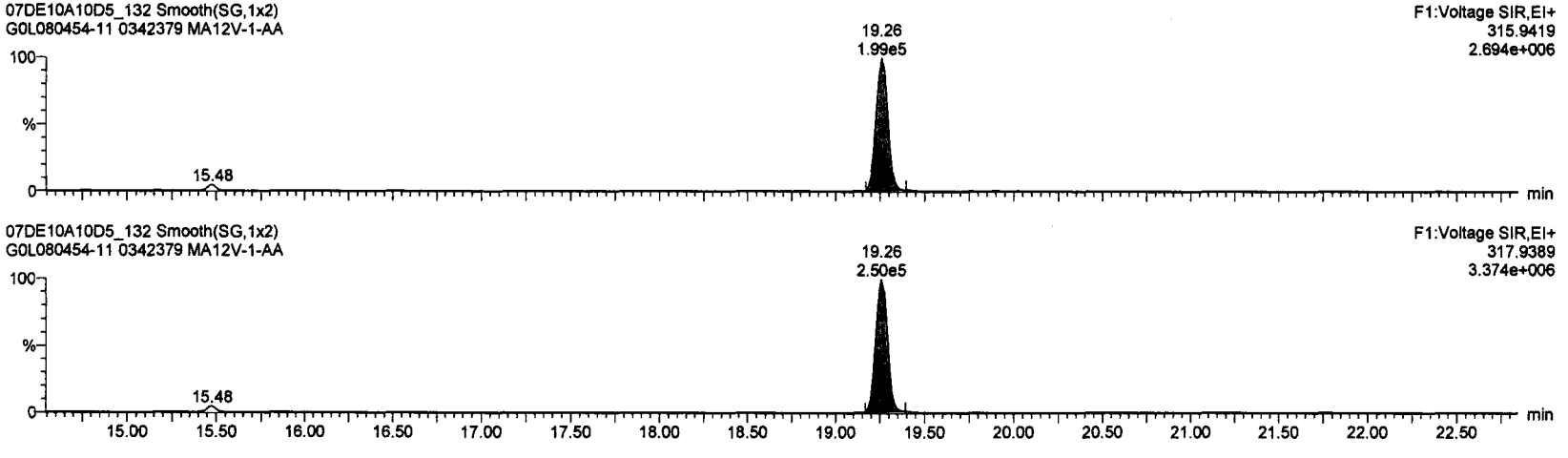
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

TCDFs



13C-TCDF



Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:43:18 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

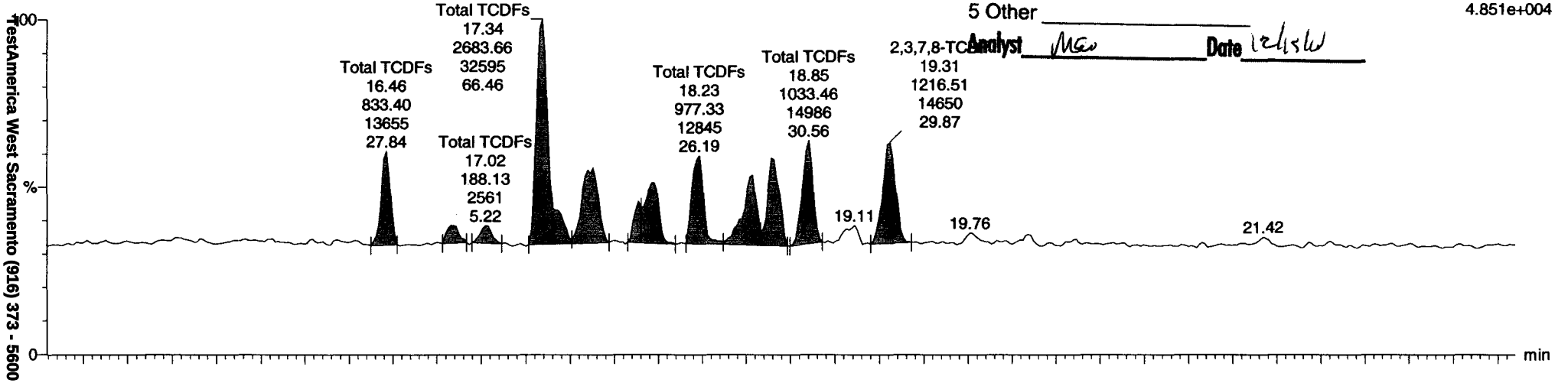
Compound Name: Total TCDFs, Chrom. Trace: 303.9016

MANUAL EDIT CODES
1 Peak not found
(2) Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____
Analyst MG Date 12/15/10

Sample Name: 07DE10A10D5_132

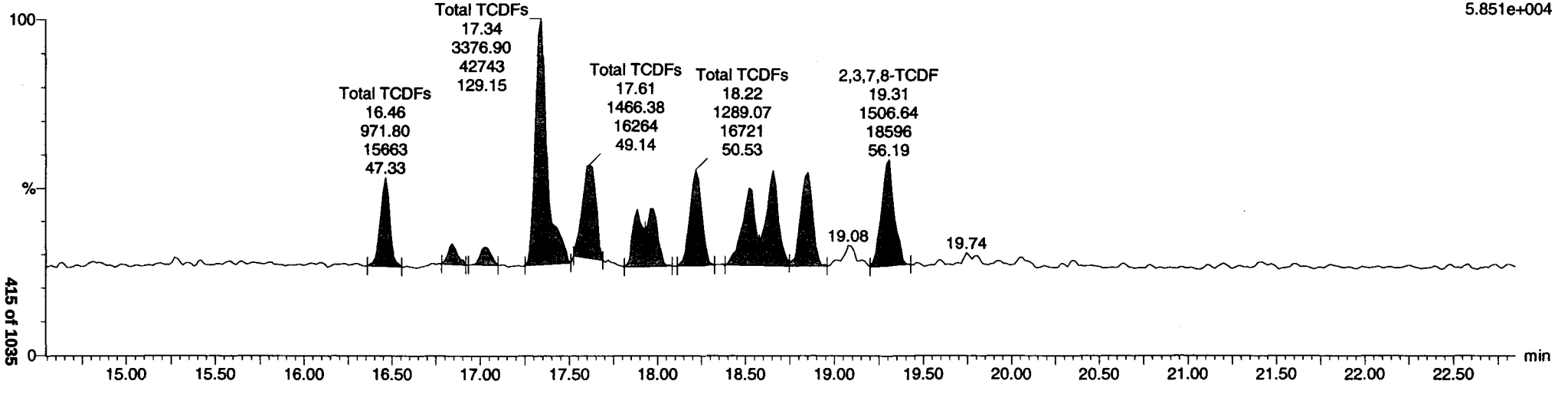
07DE10A10D5_132 Smooth(SG,1x2)
G0L080454-11 0342379 MA12V-1-AA

F1:Voltage SIR,EI+
303.9016
4.851e+004



07DE10A10D5_132 Smooth(SG,1x2)
G0L080454-11 0342379 MA12V-1-AA

F1:Voltage SIR,EI+
305.8987
5.851e+004



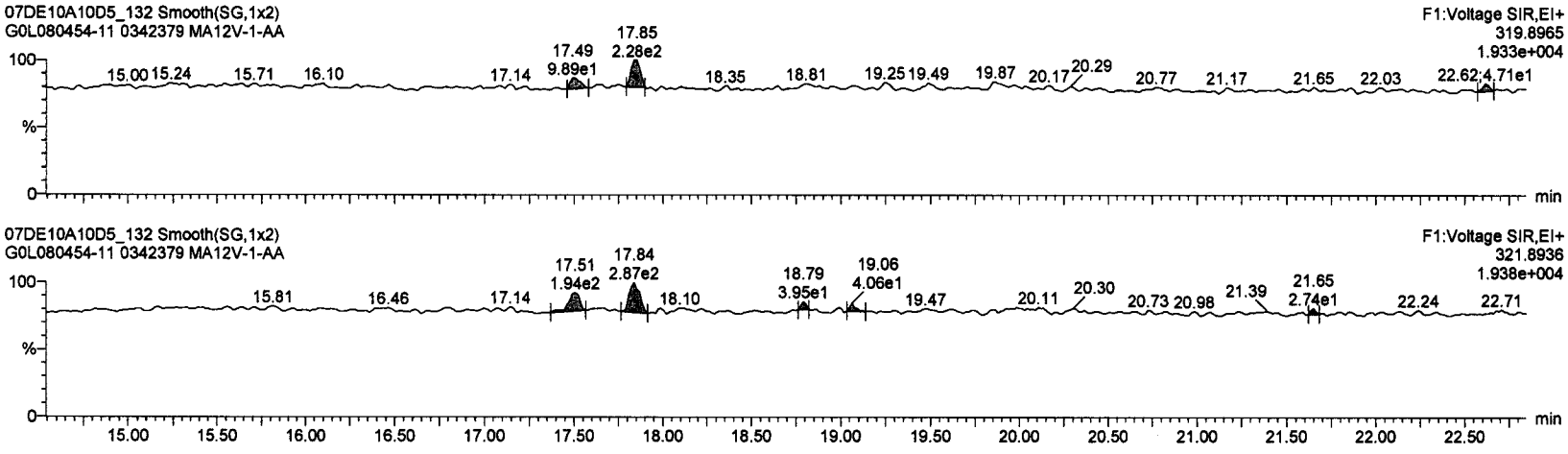
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

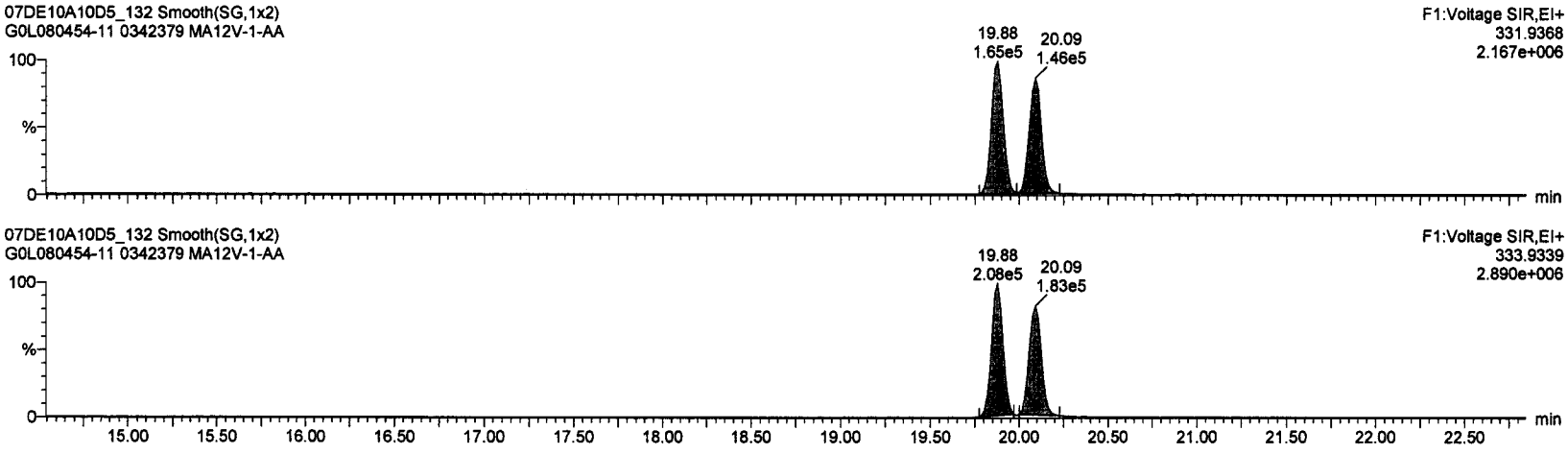
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

TCDDs



13C-TCDDs



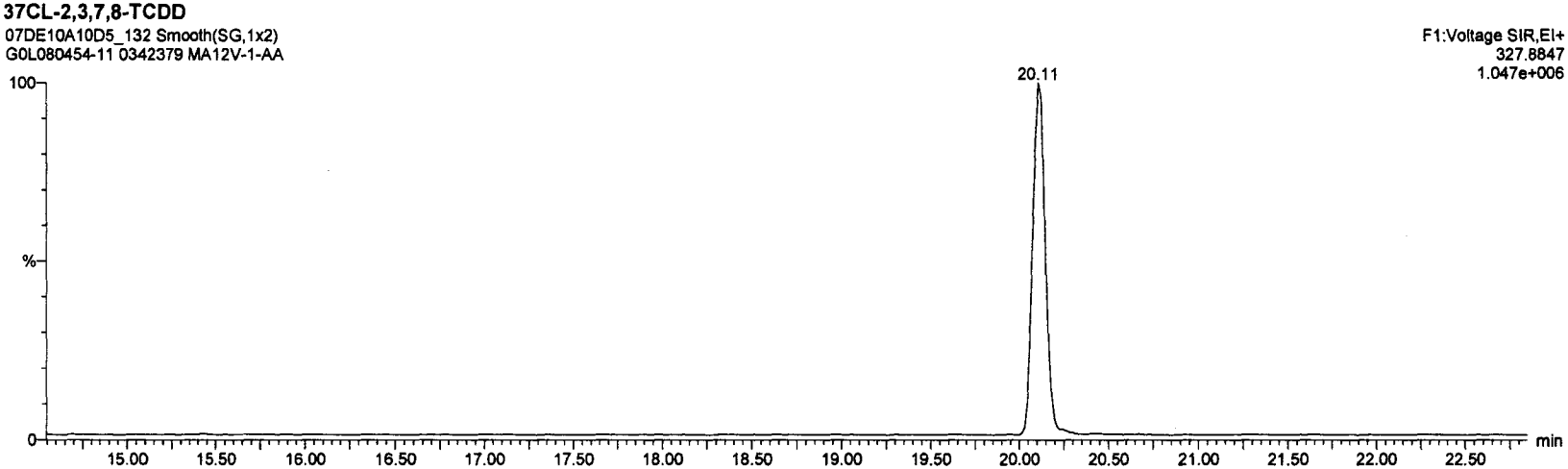
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

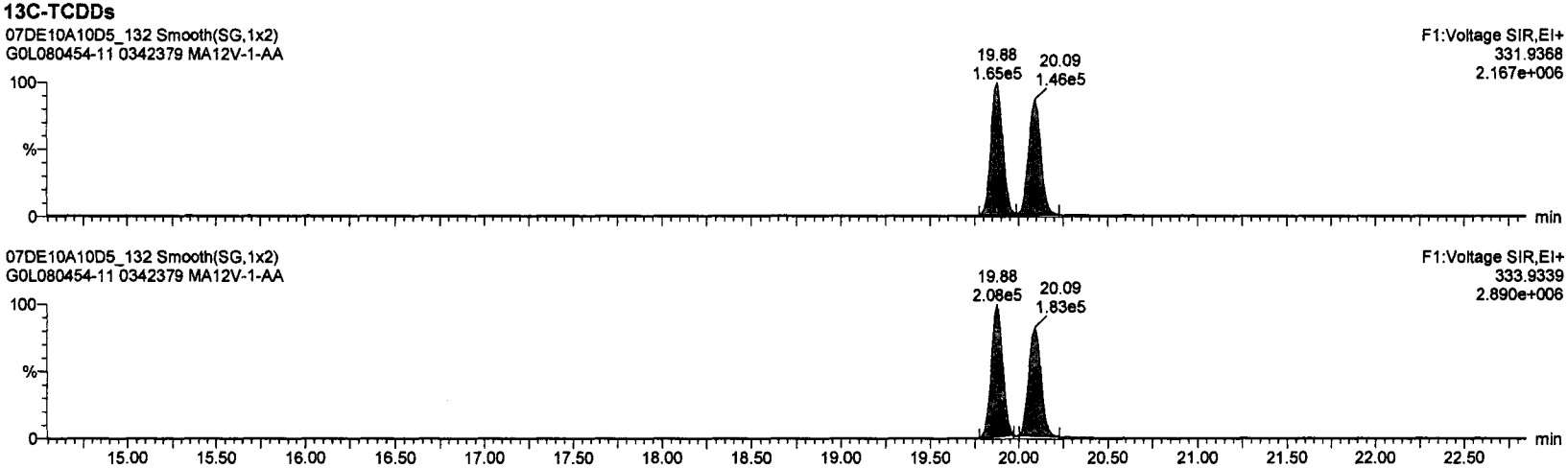
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

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



13C-TCDDs



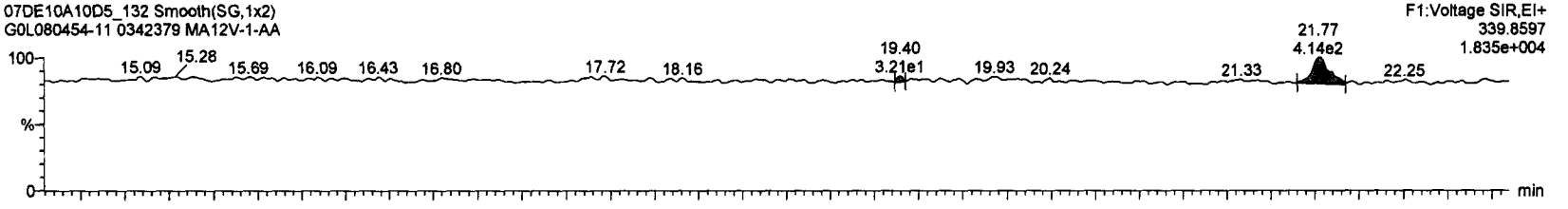
Quantify Sample Report **MassLynx 4.1**

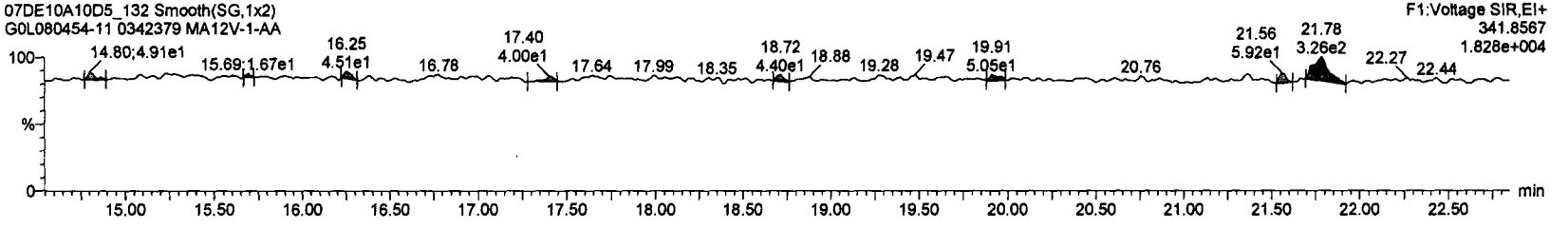
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

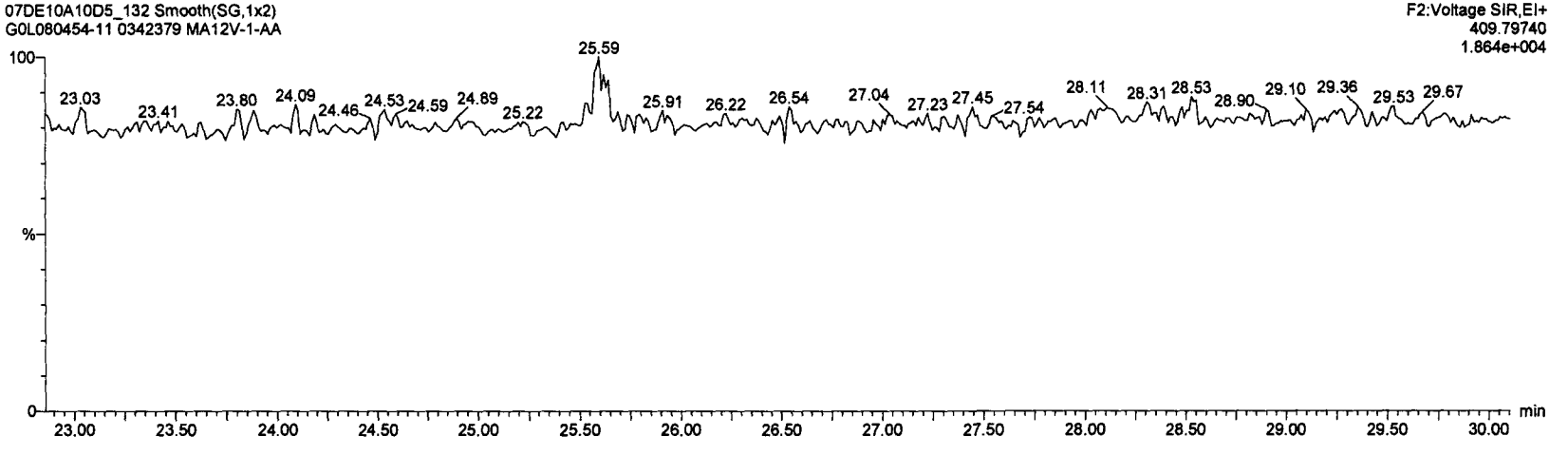
Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

F1 PeCDFs





F1 PeCDF PCDPE



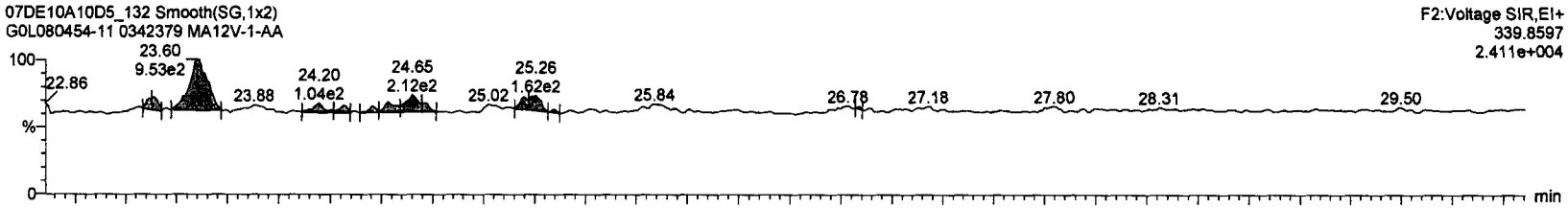
Quantify Sample Report **MassLynx 4.1**

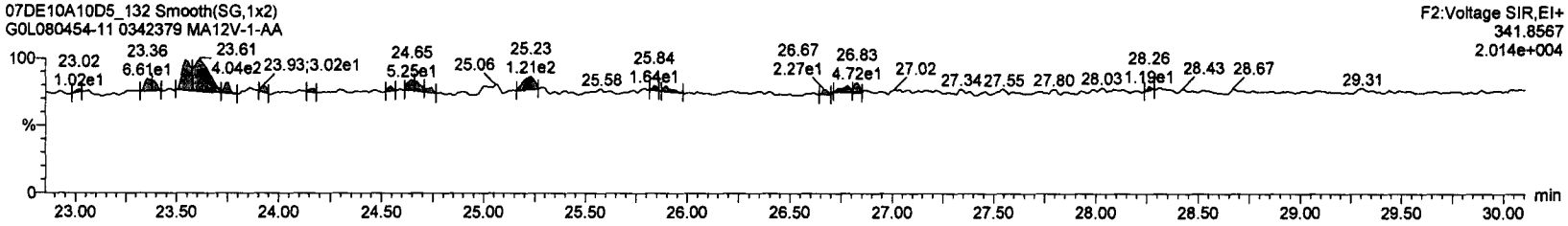
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

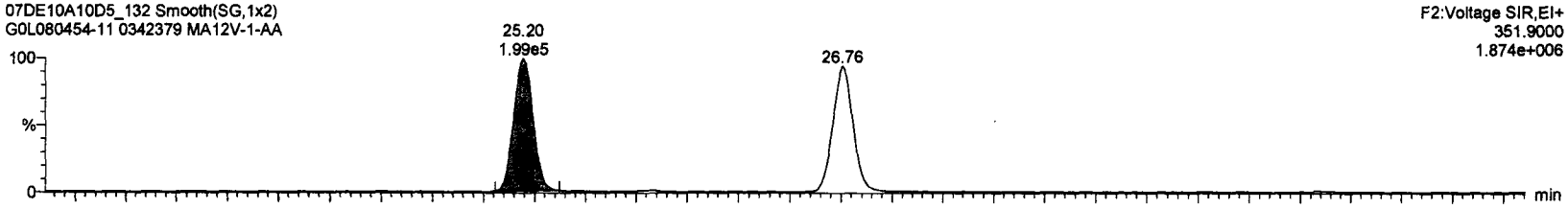
Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

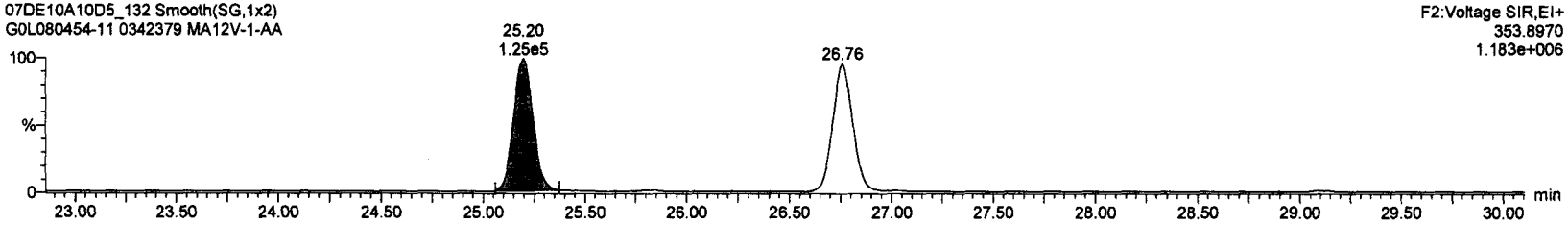
PeCDFs





13C-PeCDFs





Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:43:18 Pacific Standard Time

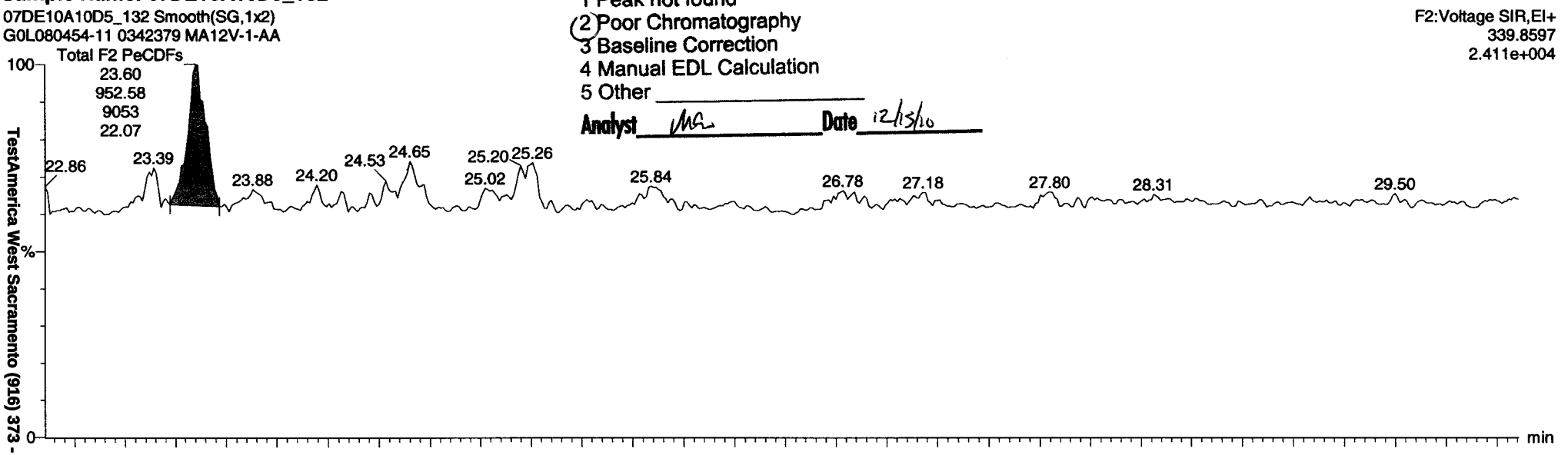
Compound Name: Total F2 PeCDFs, Chrom. Trace: 339.8597

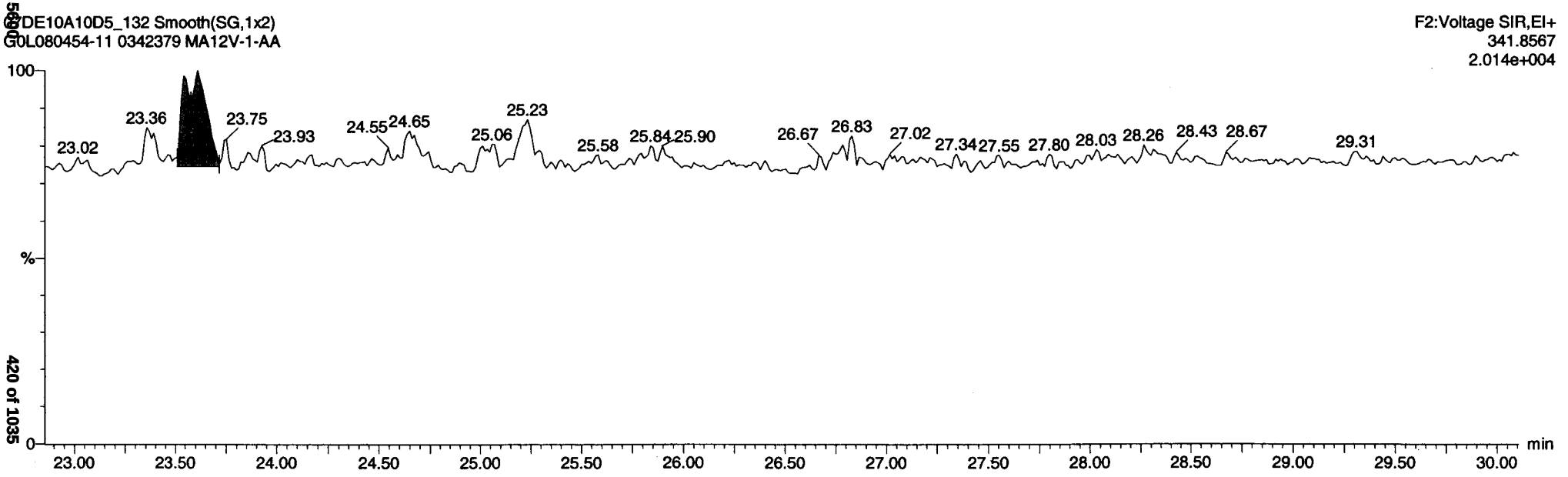
Sample Name: 07DE10A10D5_132

MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MC Date 12/15/10





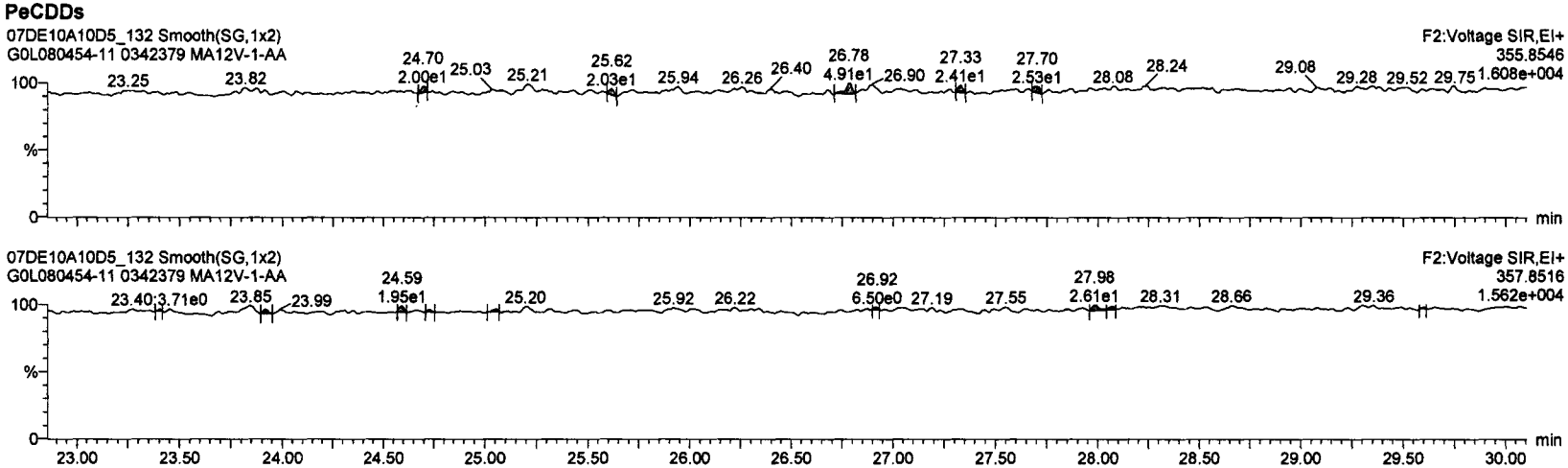
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

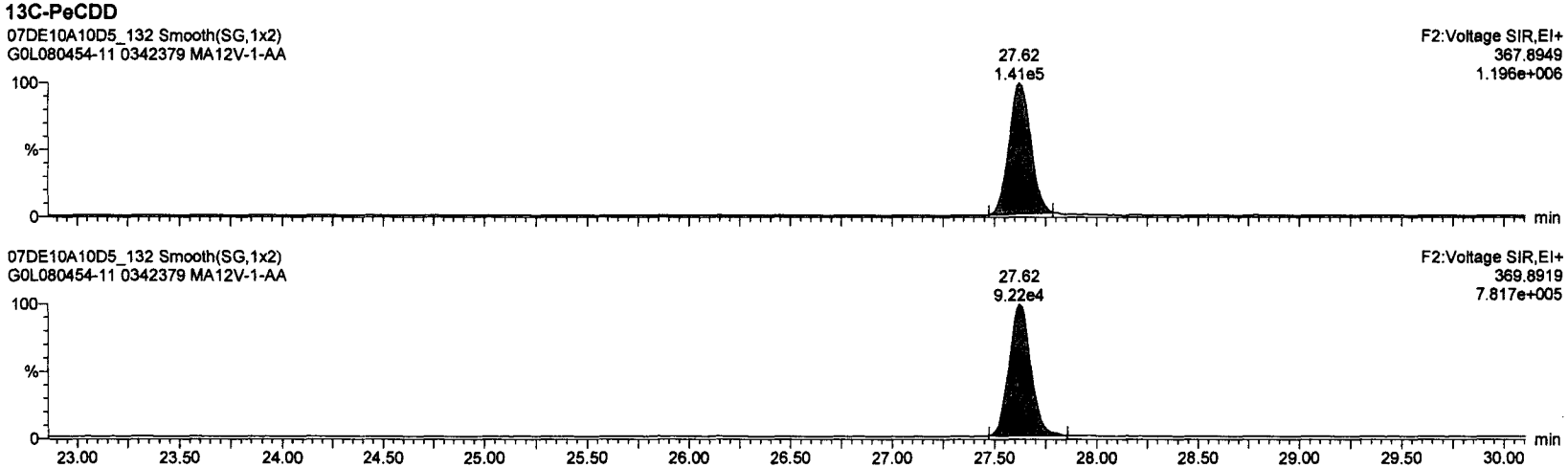
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

PeCDDs



13C-PeCDD



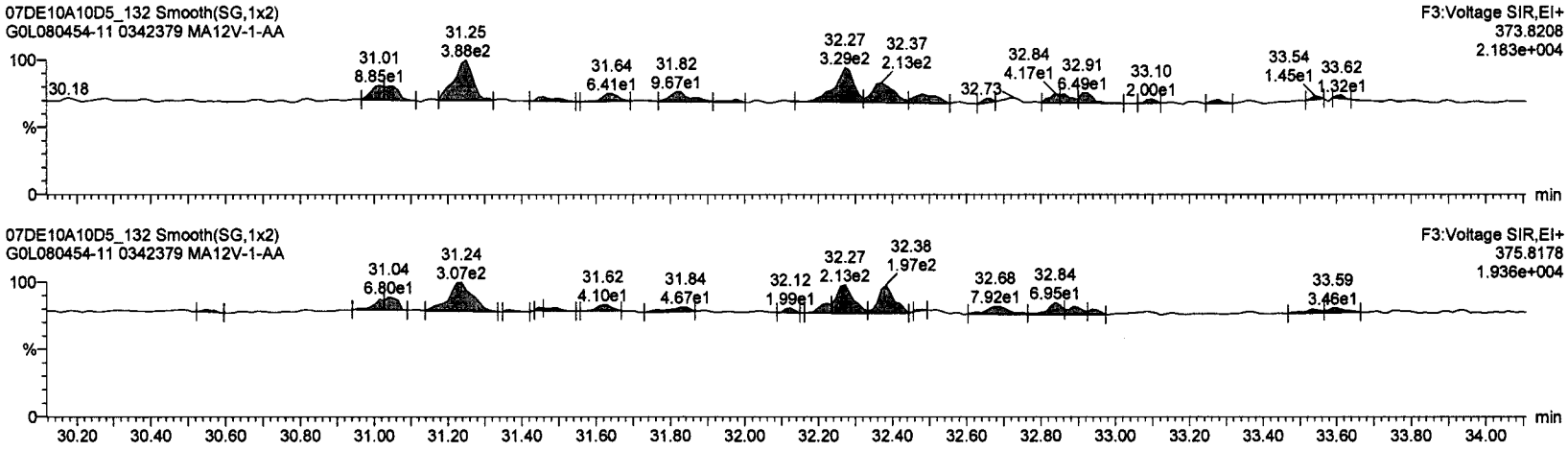
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

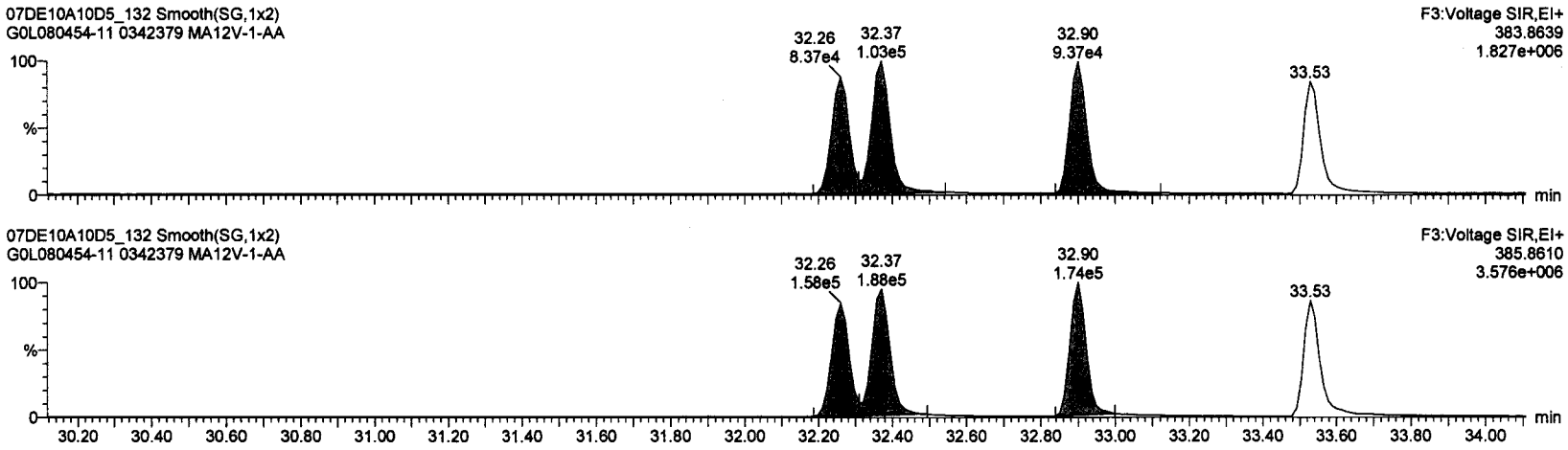
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

HxCDFs



13C-HxCDFs

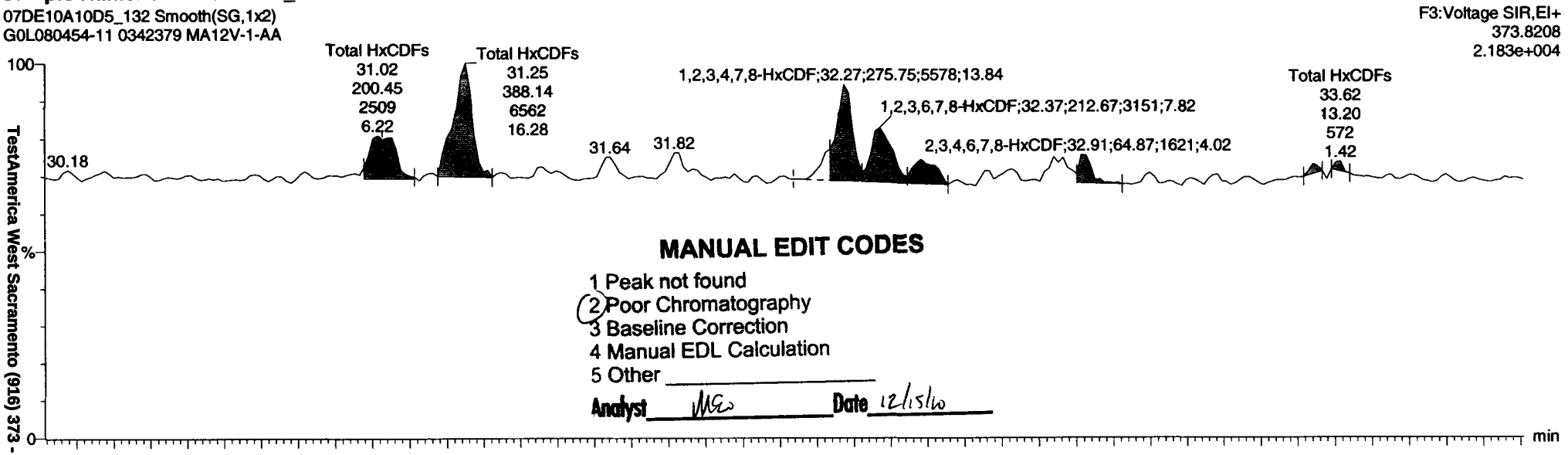


Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:43:18 Pacific Standard Time

Compound Name: Total HxCDFs, Chrom. Trace: 373.8208

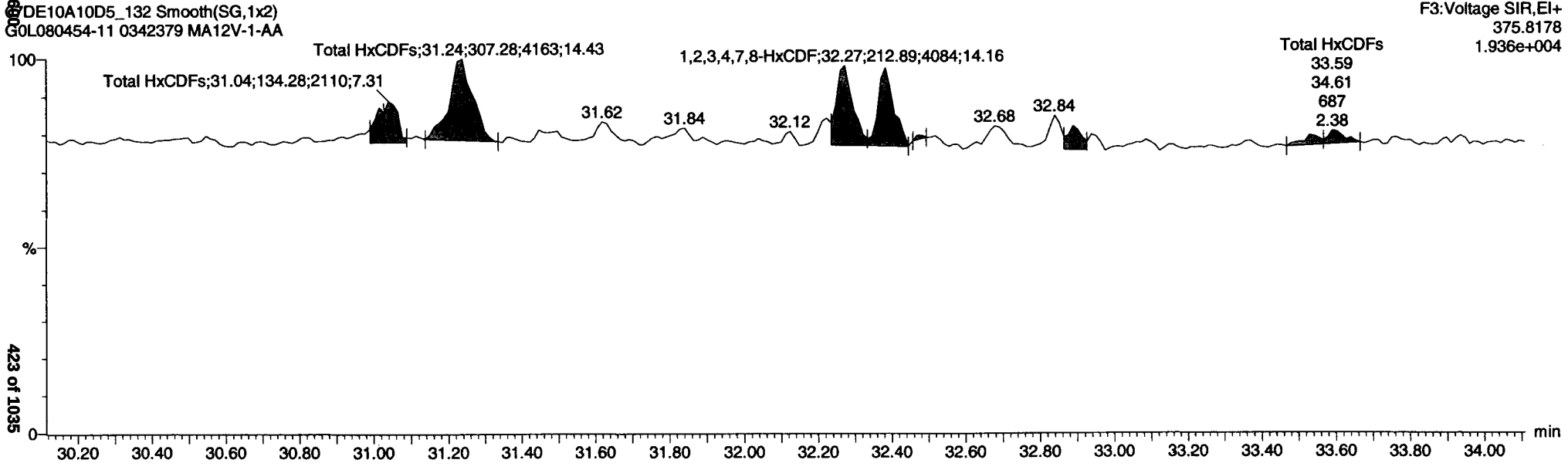
Sample Name: 07DE10A10D5_132



MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MG **Date** 12/15/10



Quantify Compound Report **MassLynx 4.1 SCN 714 Desktop**

Dataset: X:\10D5\07DE10A10D5TO9Jm.qld

Last Altered: Wednesday, December 15, 2010 16:40:35 Pacific Standard Time
Printed: Wednesday, December 15, 2010 16:45:20 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\CA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Compound Name: 1,2,3,4,7,8-HxCDF, Chrom. Trace: 373.8208

Sample Name: 07DE10A10D5_132

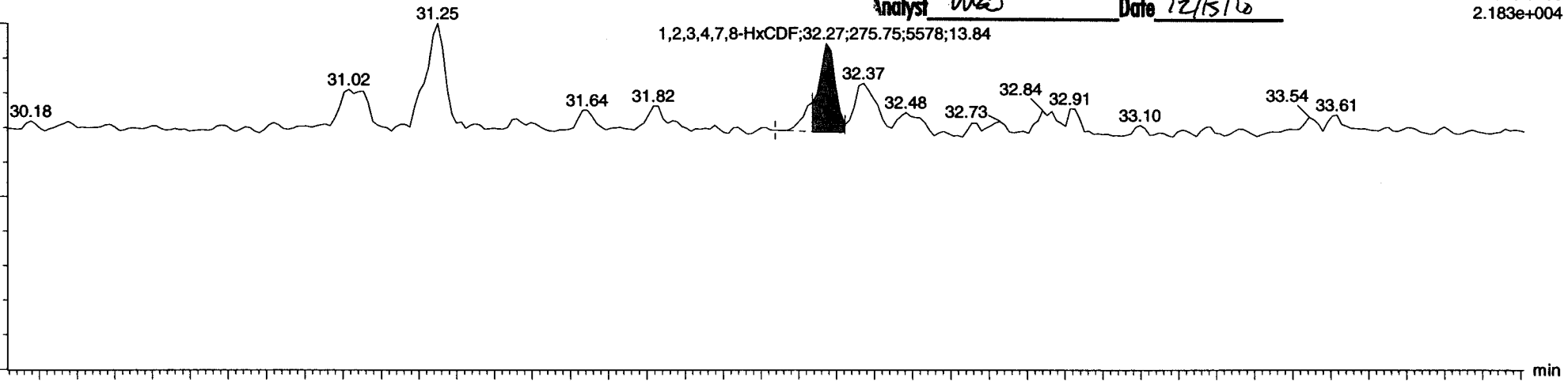
MANUAL EDIT CODES

1 Peak not found
(2) Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MG Date 12/15/10

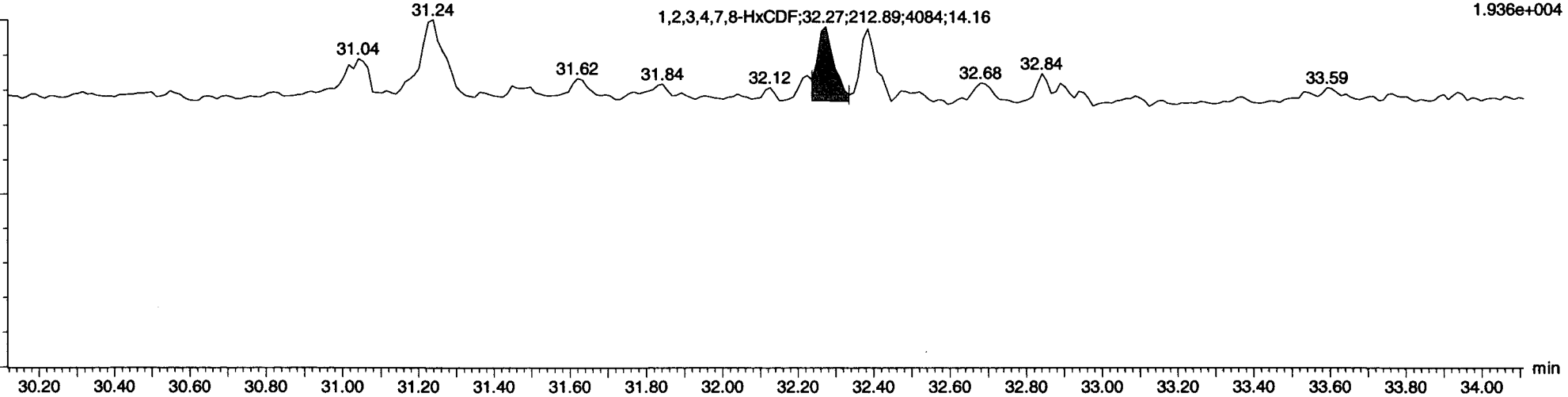
07DE10A10D5_132 Smooth(SG,1x2)
G0L080454-11 0342379 MA12V-1-AA

F3:Voltage SIR,EI+
373.8208
2.183e+004



07DE10A10D5_132 Smooth(SG,1x2)
G0L080454-11 0342379 MA12V-1-AA

F3:Voltage SIR,EI+
375.8178
1.936e+004



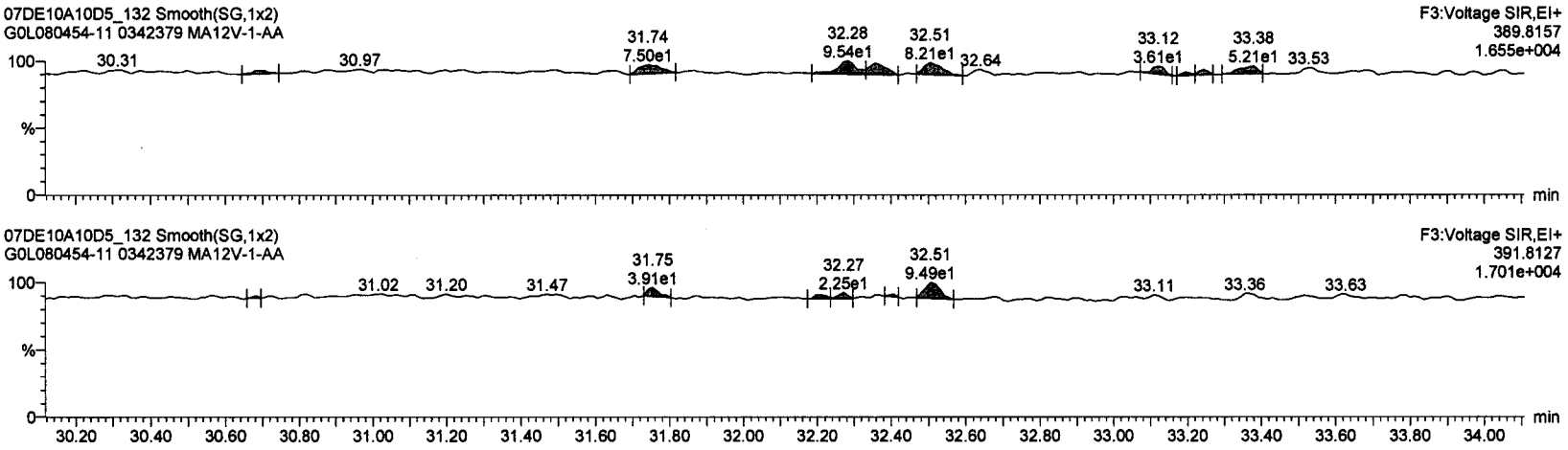
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

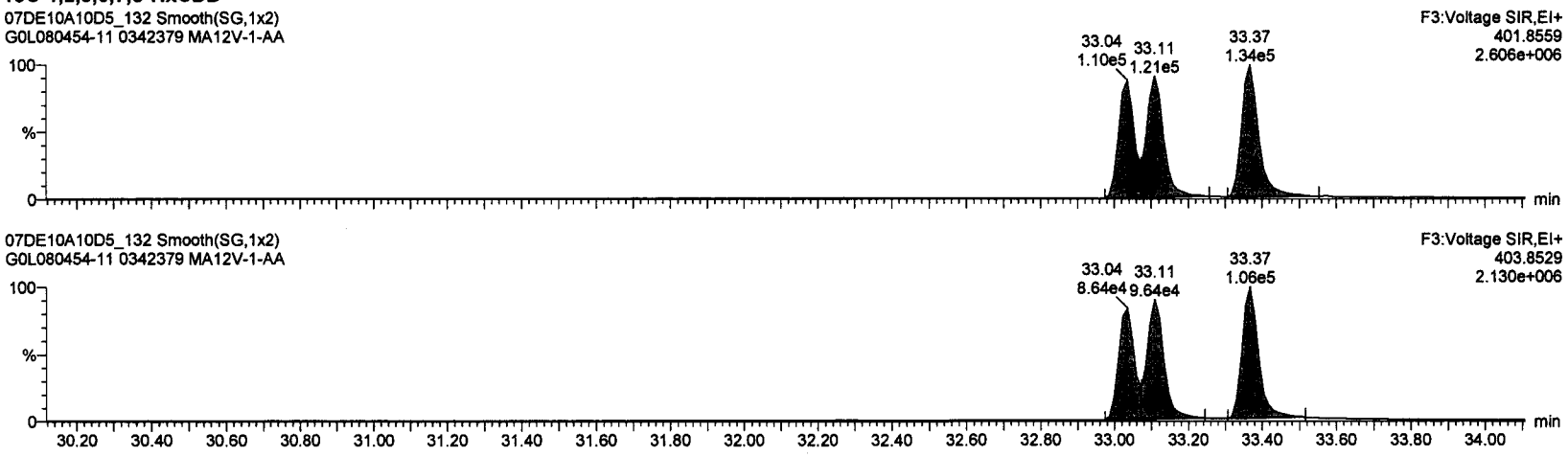
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



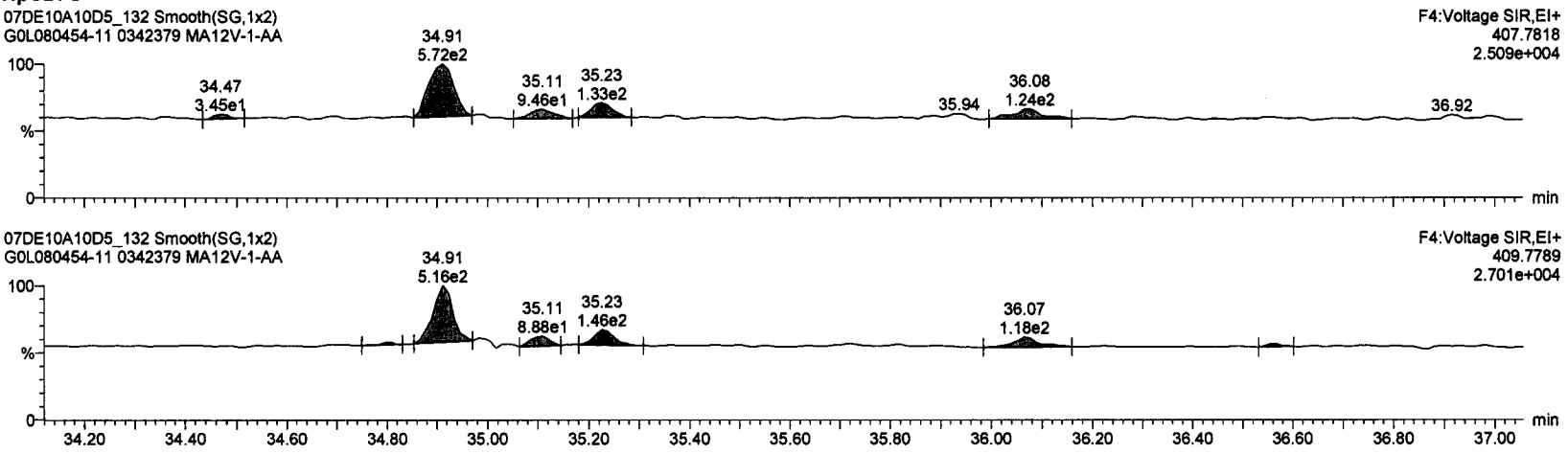
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

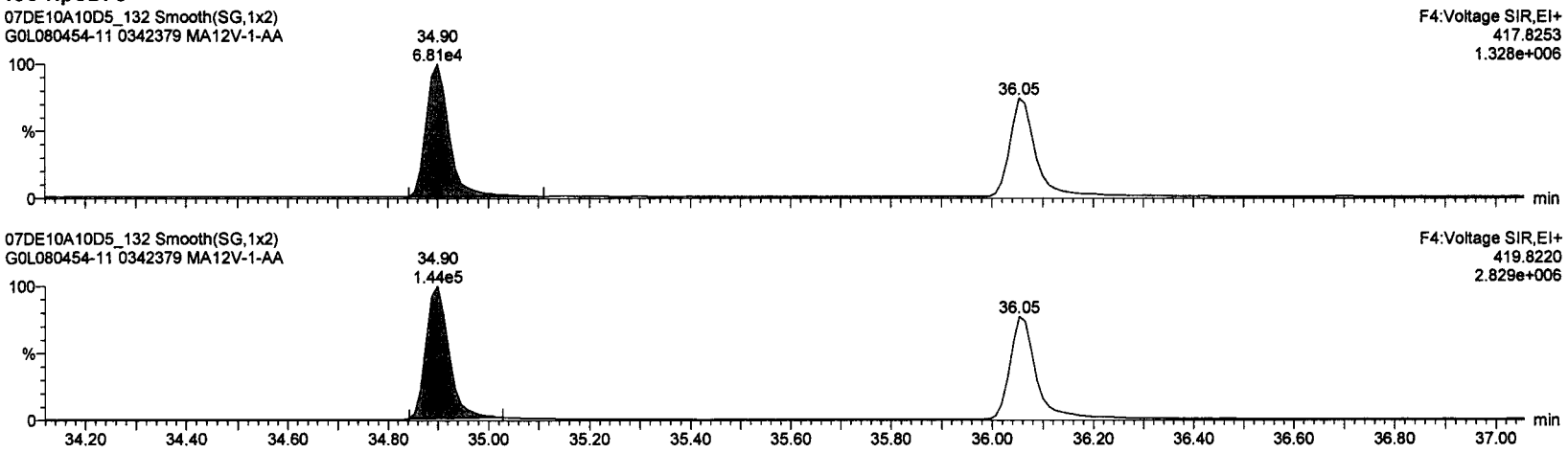
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

HpCDFs



13C-HpCDFs



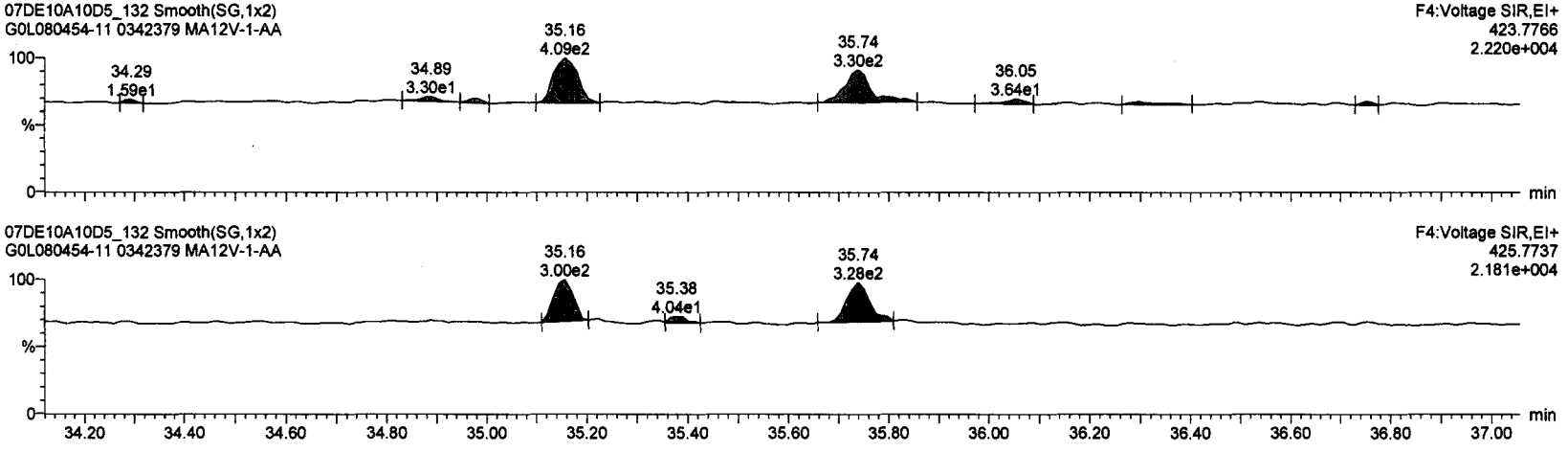
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

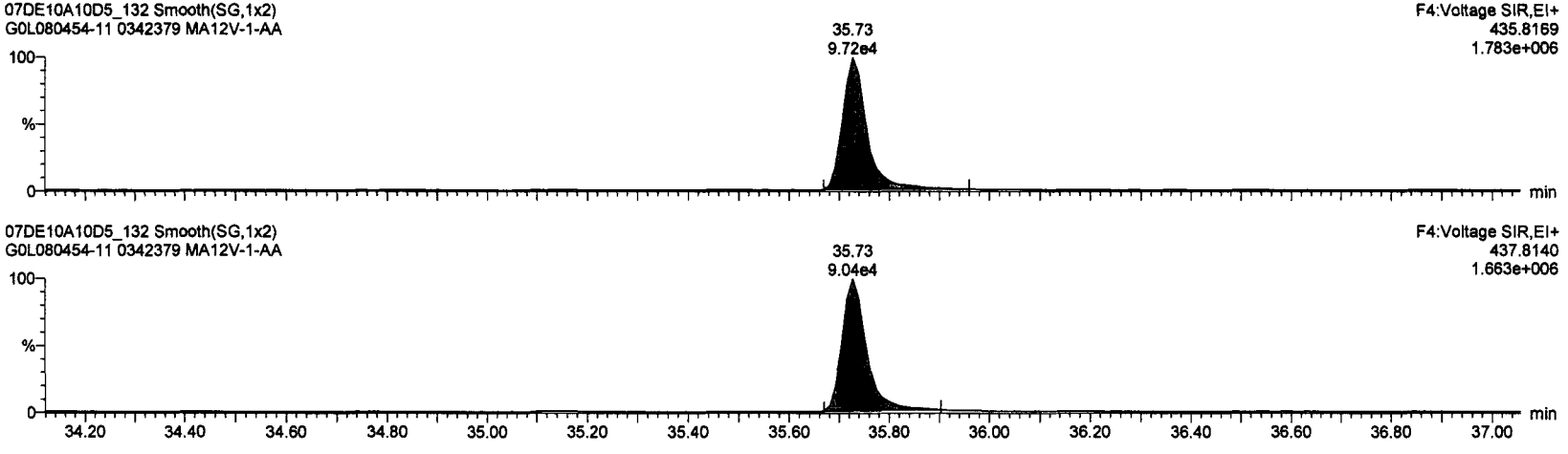
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



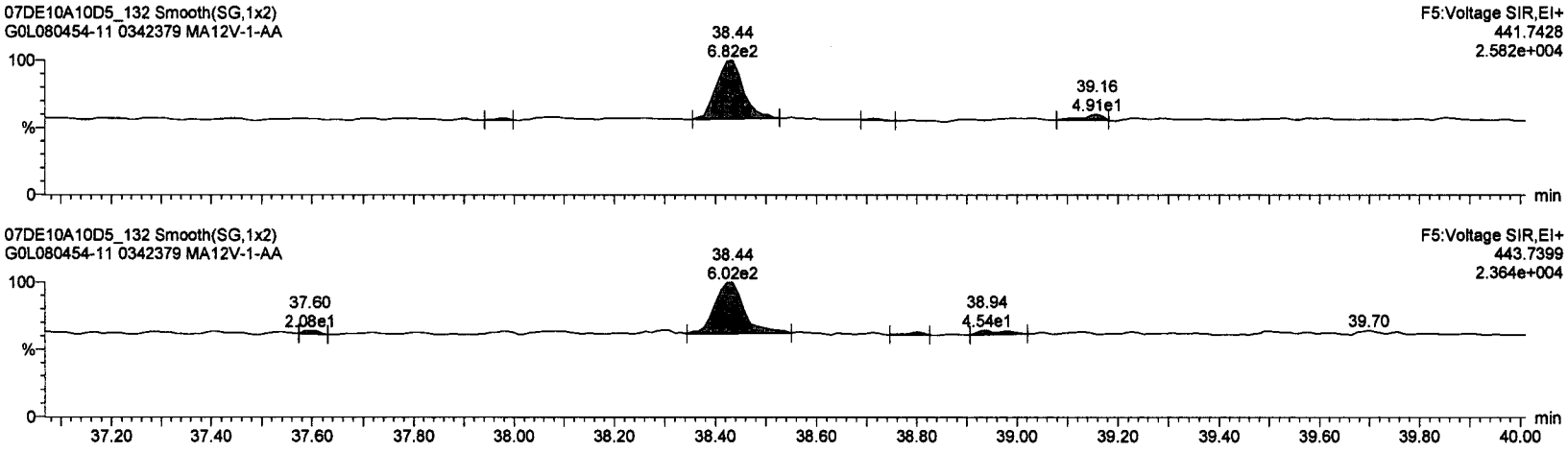
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

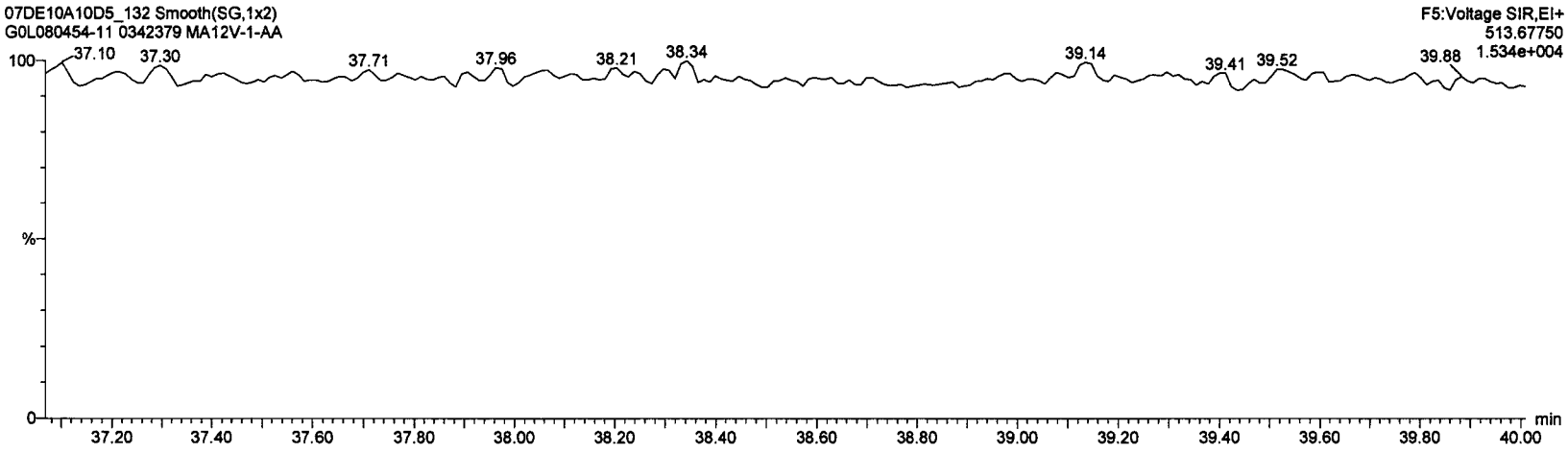
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

OCDFs



OCDF PCDPE



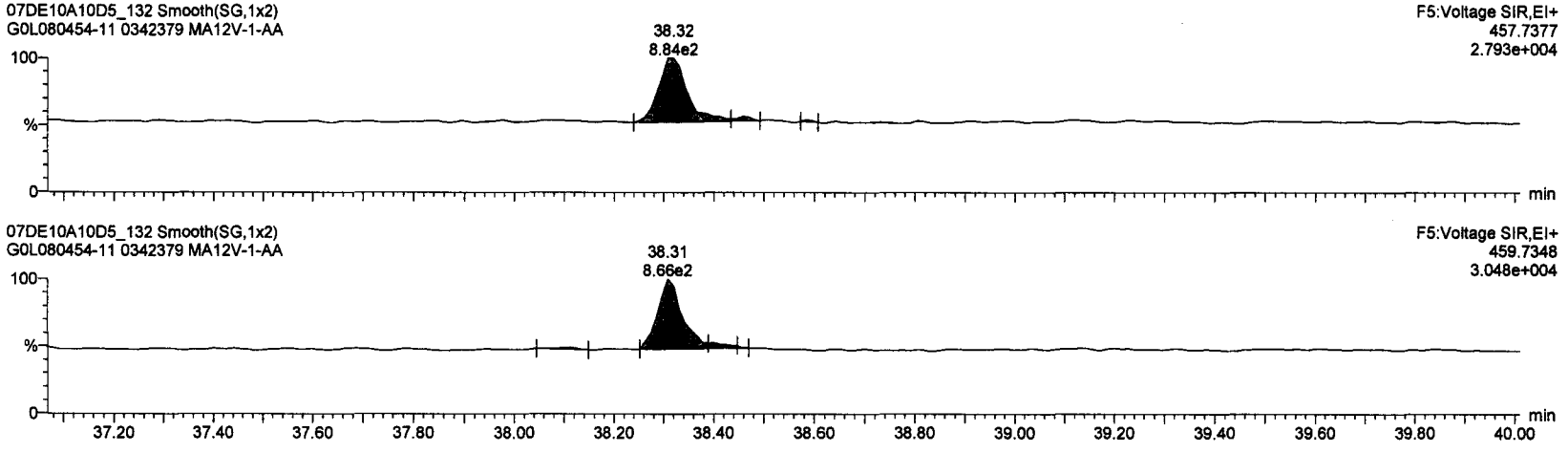
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

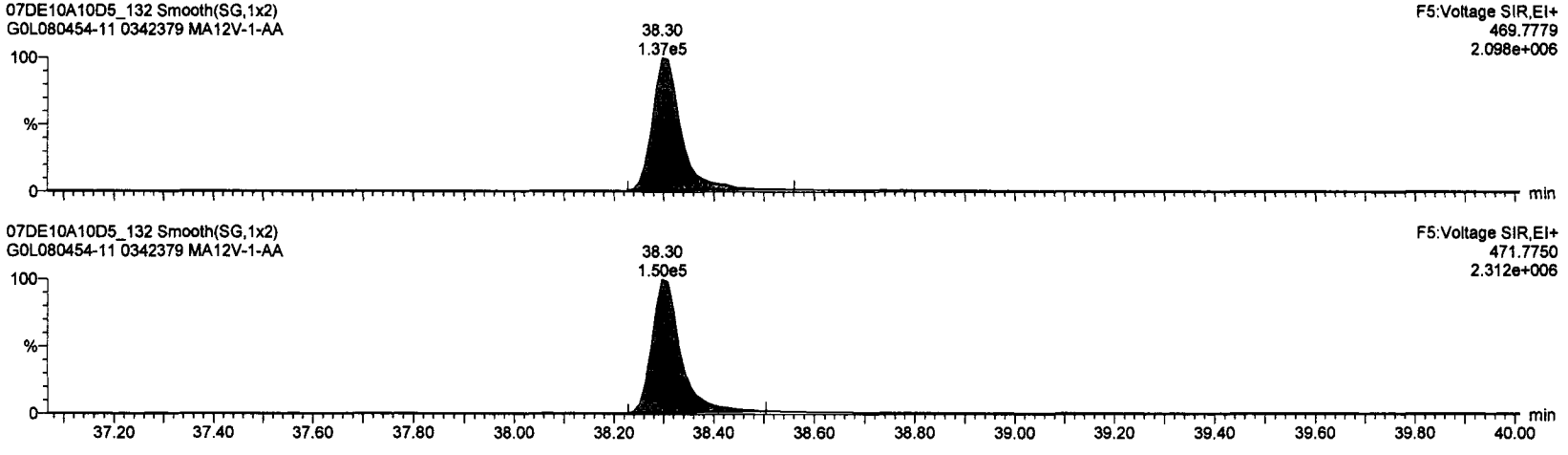
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

OCDD



13C-OCDD



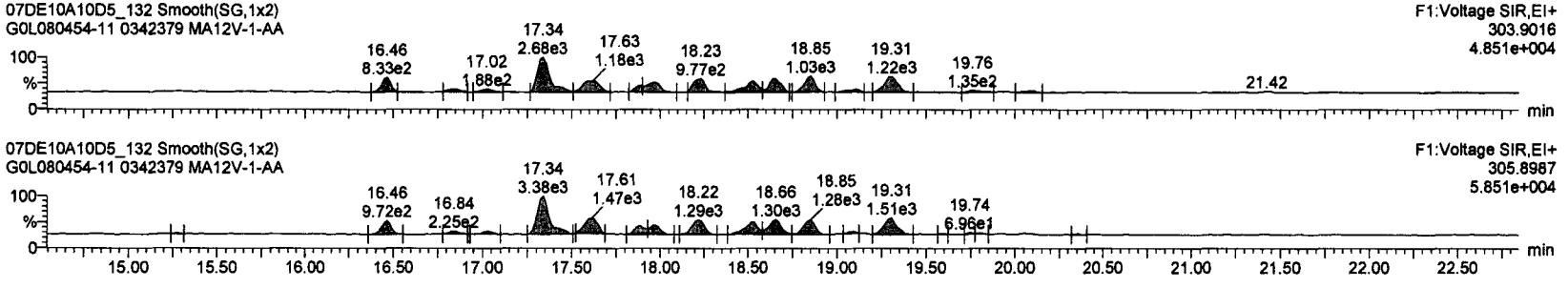
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

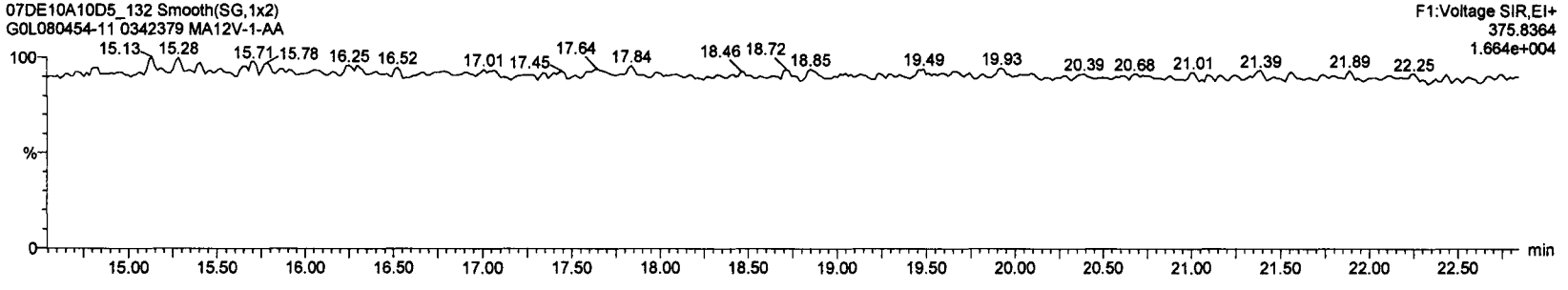
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

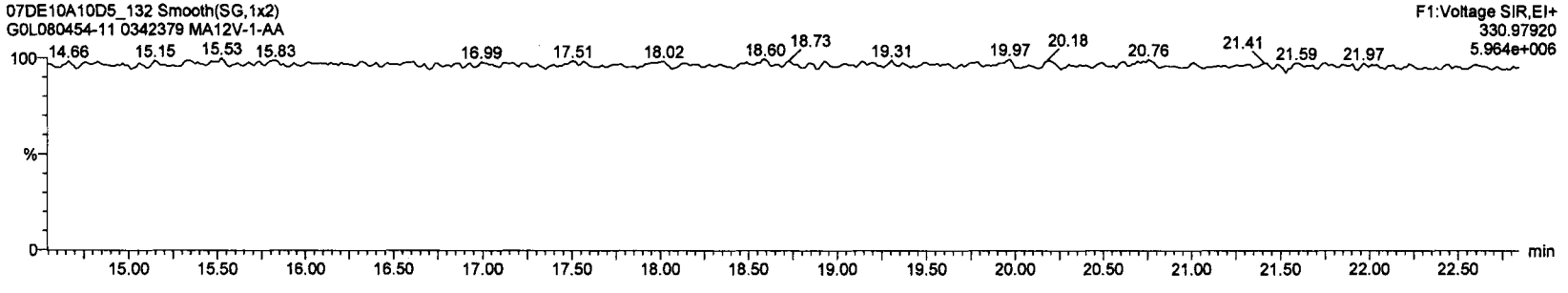
TCDFs



TCDF PCDPE



Function 1 PFK



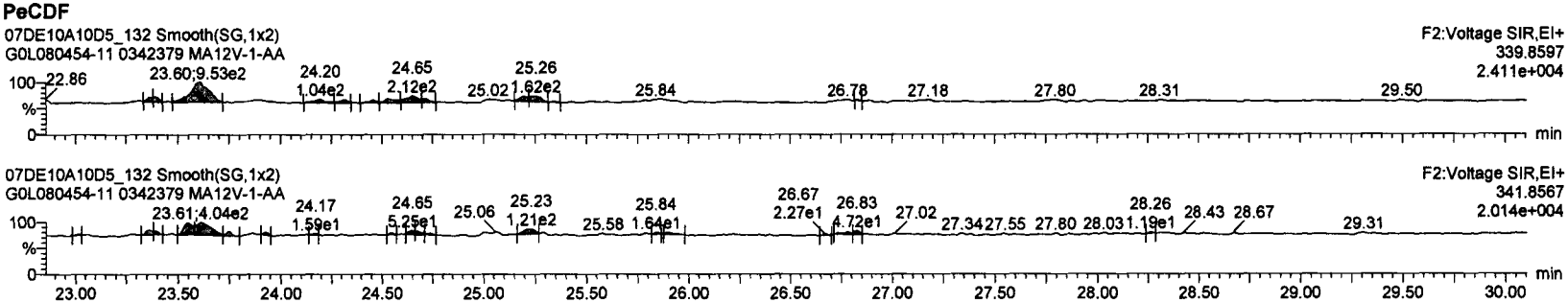
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

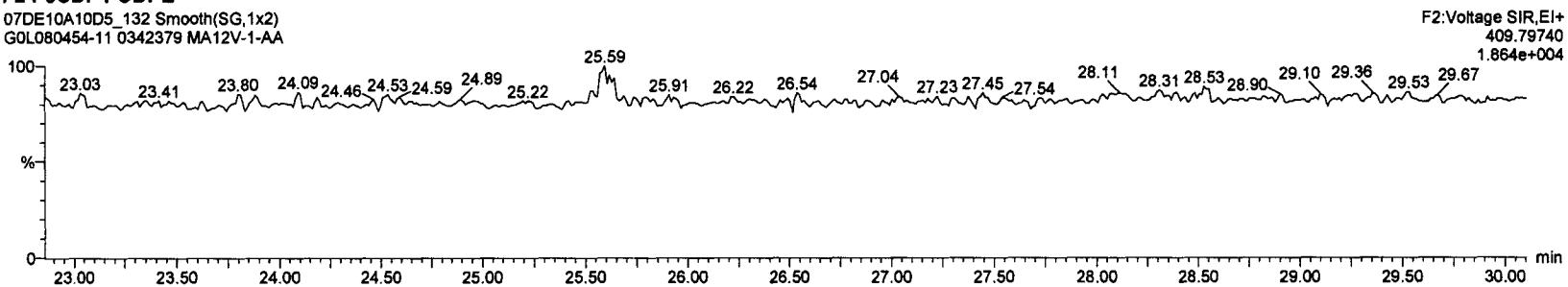
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

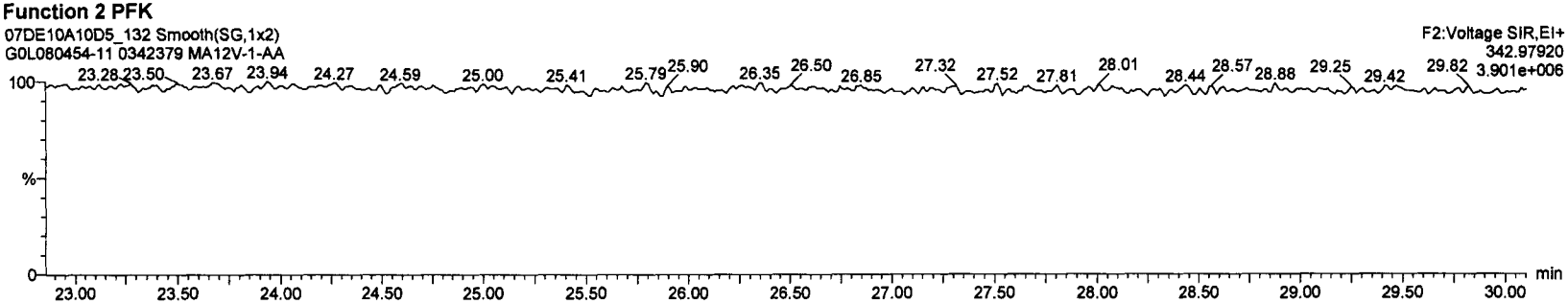
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



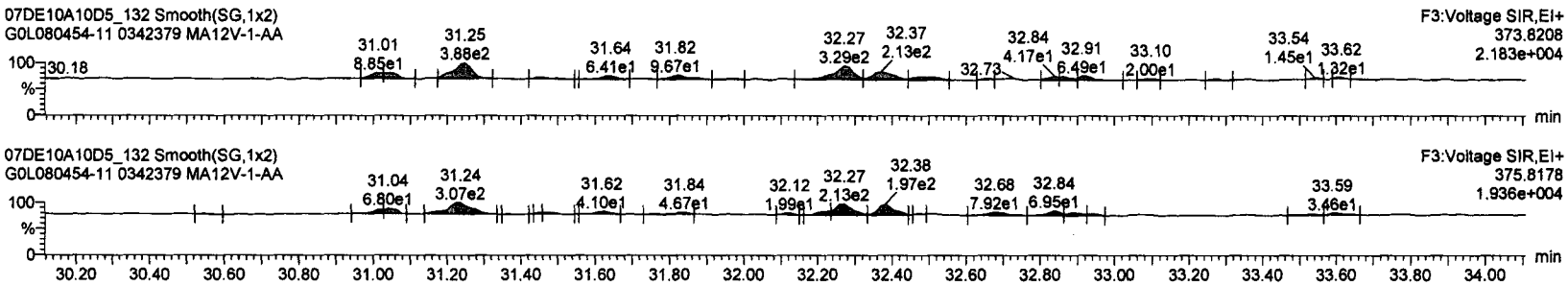
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

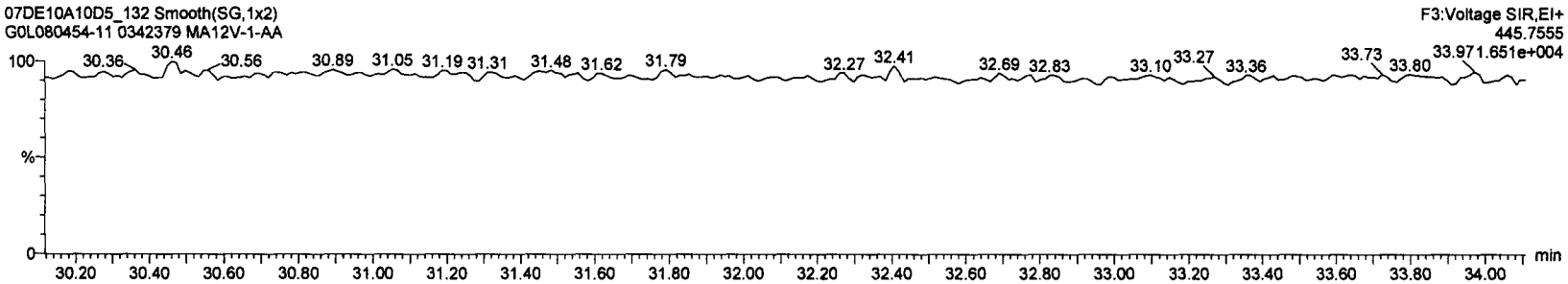
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

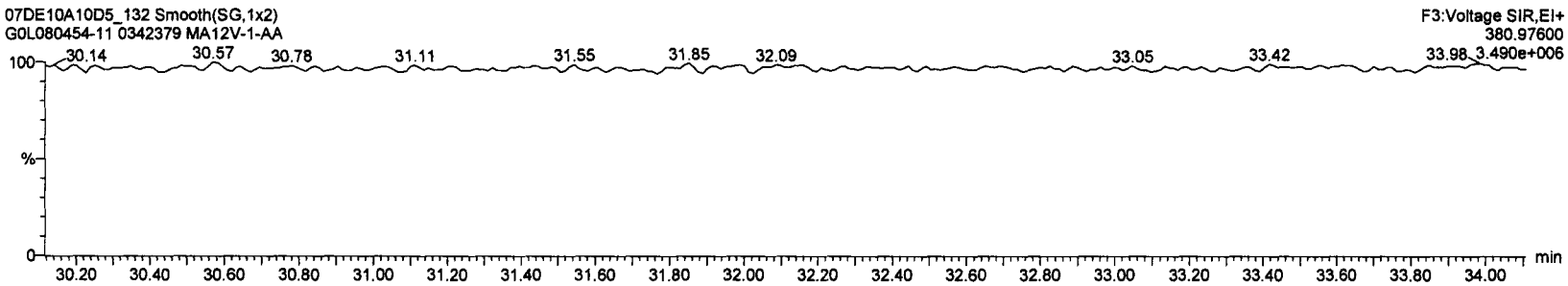
HxCDFs



HxCDF PCDPE



Function 3 PFK



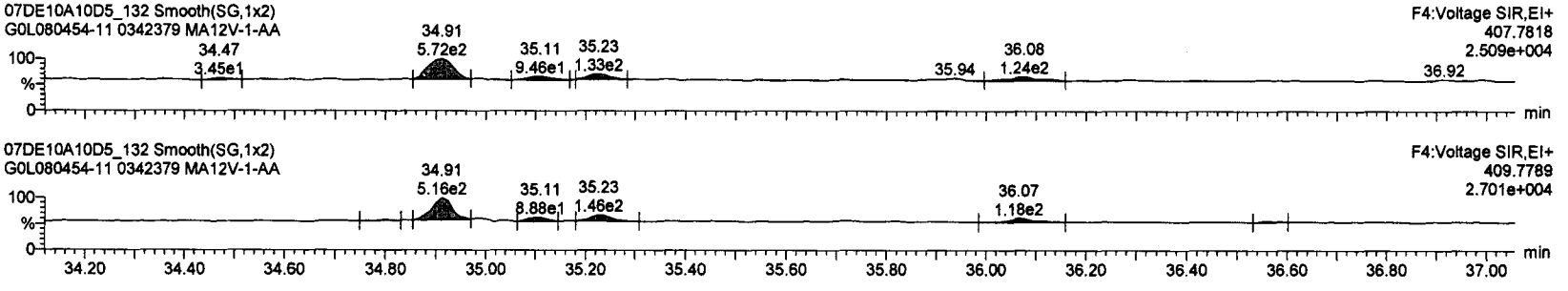
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

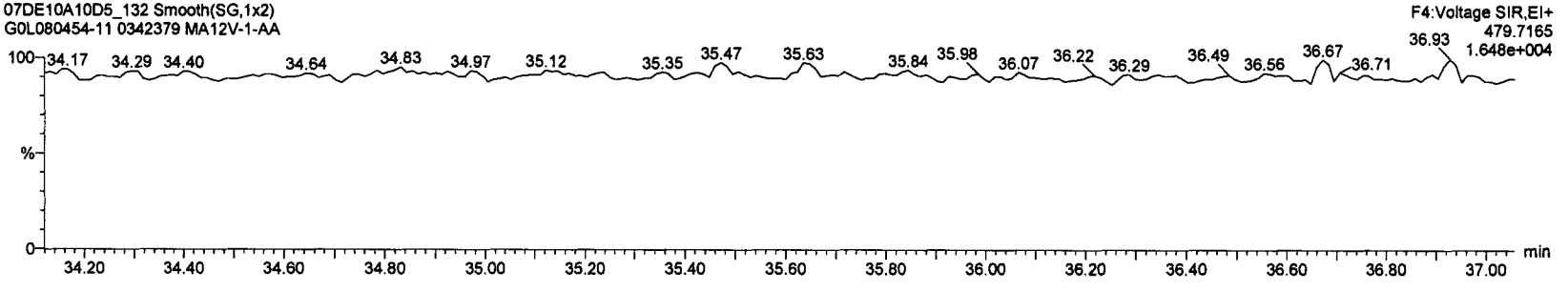
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

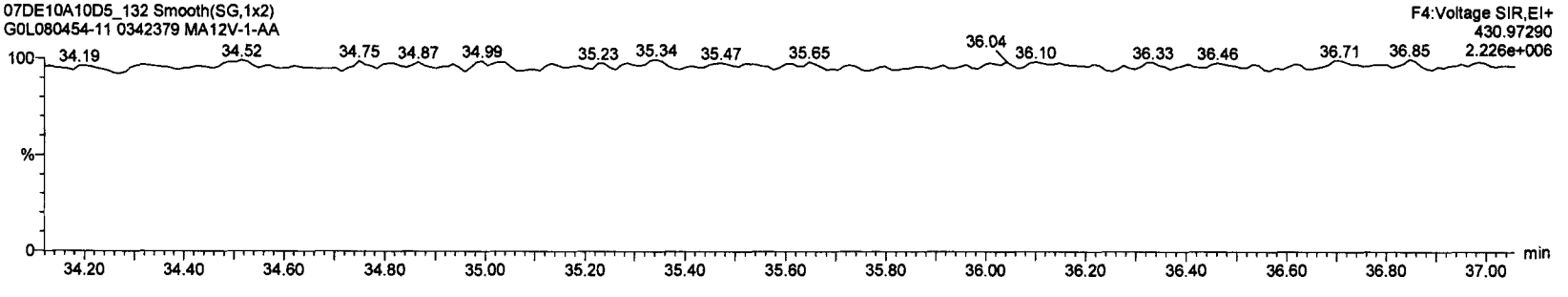
HpCDFs



HpCDF PCDPE



Function 4 PFK



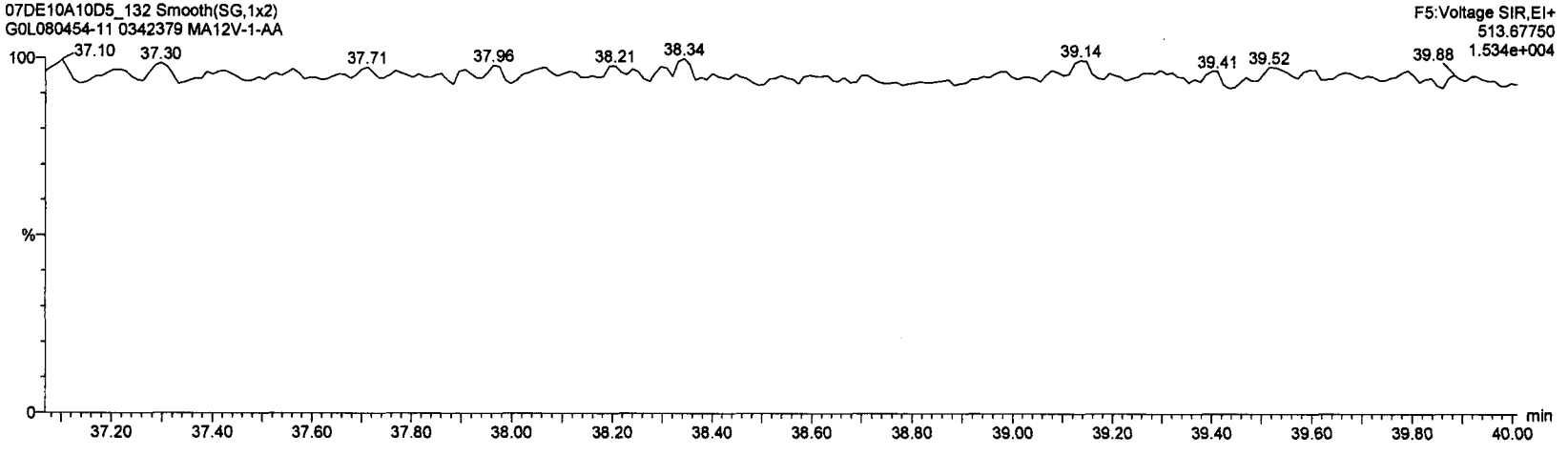
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

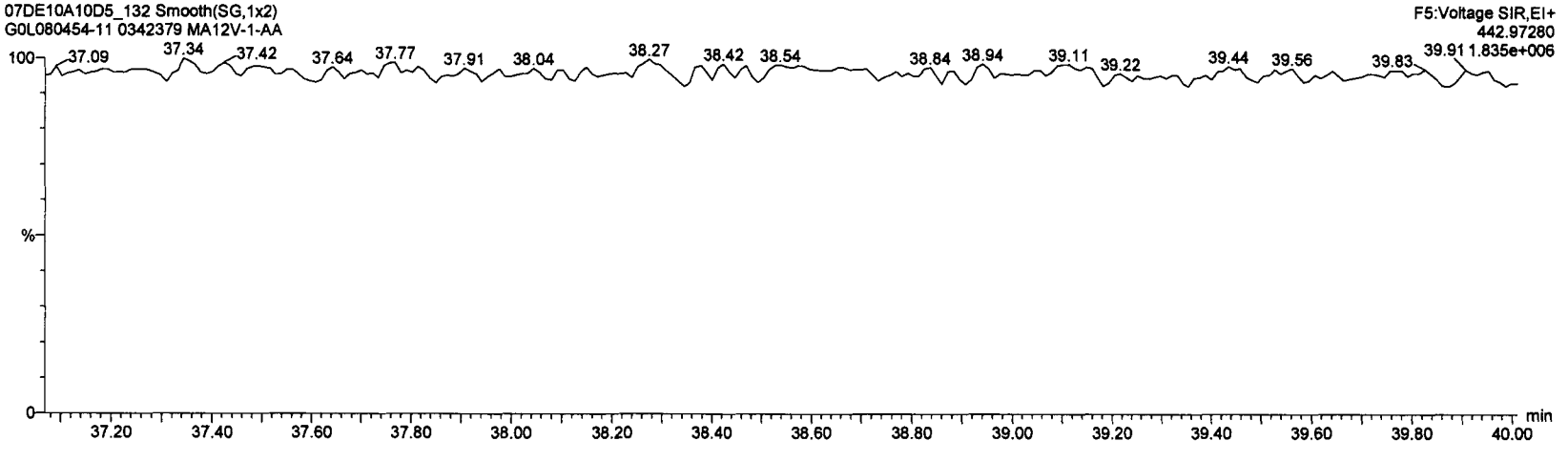
Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 12:47:18 Pacific Standard Time

Name: 07DE10A10D5_132, Date: 11-Dec-2010, Time: 20:30:25, ID: MA12V-1-AA, Description: G0L080454-11 0342379

OCDF PCDPE



Function 5 PFK



Run text: MA12V-1-AA Sample text: MA12V-1-AA :G0L080454-11
Run #9 Filename: 14DE10C5D2 S: 8 I: 1 Results: 14DE10C5D2DB225AIRM
Acquired: 15-DEC-10 01:10:58 Processed: 15-DEC-10 09:39:50
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 g

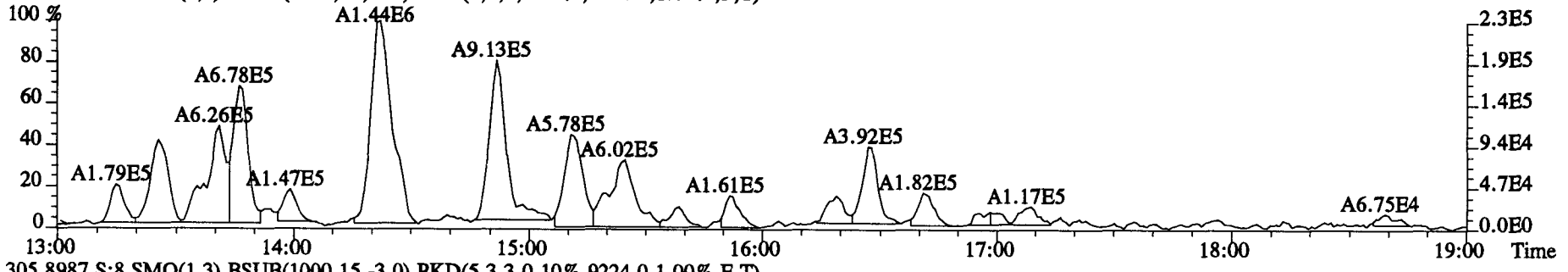
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	158916200	0.81	y	15:13	-	167.50		-	-	n
13C-2,3,7,8-TCDF	326258000	0.81	y	16:26	2.02	4060.12		18.16	101.5	n
2,3,7,8-TCDF	991658	0.71	y	16:27	1.01	12.02	J1 EMPC	2.90	-	y
13C-2,3,7,8-TCDD	136980200	0.80	y	14:54	0.99	3500.04		15.44	87.5	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.56	*		5.43	-	n
37Cl-2,3,7,8-TCDD	96856000	1.00	y	14:55	1.77	1594.36		7.87	99.6	n

12/15/10
mc

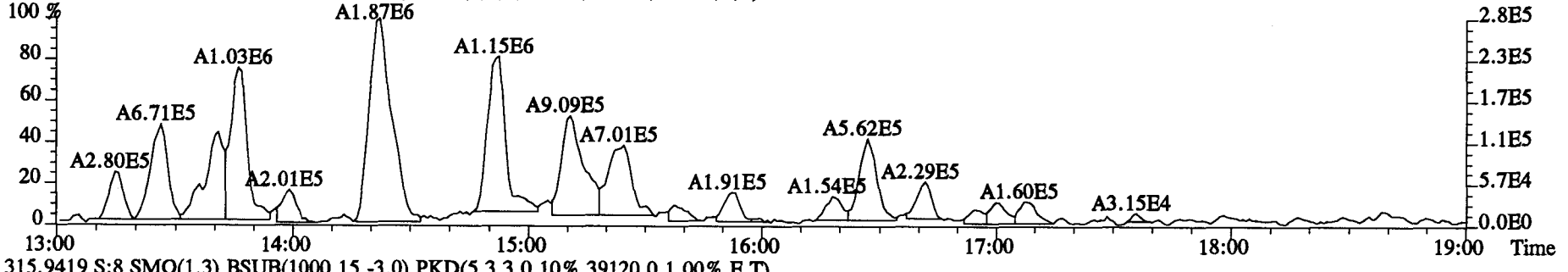
Run text: MA12V-1-AA Sample text: MA12V-1-AA :G0L080454-11
Run #9 Filename: 14DE10C5D2 S: 8 I: 1 Results: 14DE10C5D2DB225AIR
Acquired: 15-DEC-10 01:10:58 Processed: 15-DEC-10 09:39:50
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000g

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	158916200	0.81	y	15:13	-	167.50	-	-	n
13C-2,3,7,8-TCDF	326258000	0.81	y	16:26	2.02	4060.12	18.16	101.5	n
2,3,7,8-TCDF	954619	0.70	y	16:27	1.01	11.57	2.90	-	n
13C-2,3,7,8-TCDD	136980200	0.80	y	14:54	0.99	3500.04	15.44	87.5	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.56	*	5.43	-	n
37Cl-2,3,7,8-TCDD	96856000	1.00	y	14:55	1.77	1594.36	7.87	99.6	n

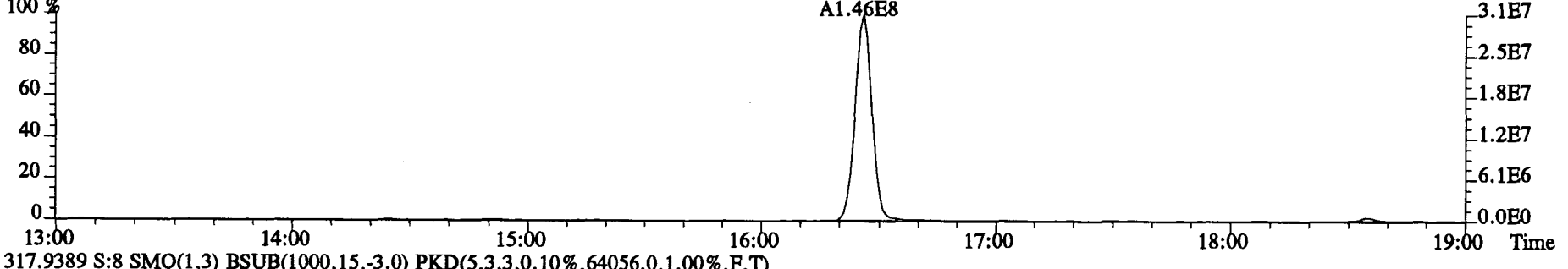
File:14DE10C5D2 #1-1242 Acq:15-DEC-2010 01:10:58 GC EI+ Voltage SIR 70SE
Sample#8 Text:MA12V-1-AA :G0L080454-11 Exp:DB225RES
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7424.0,1.00%,F,T)



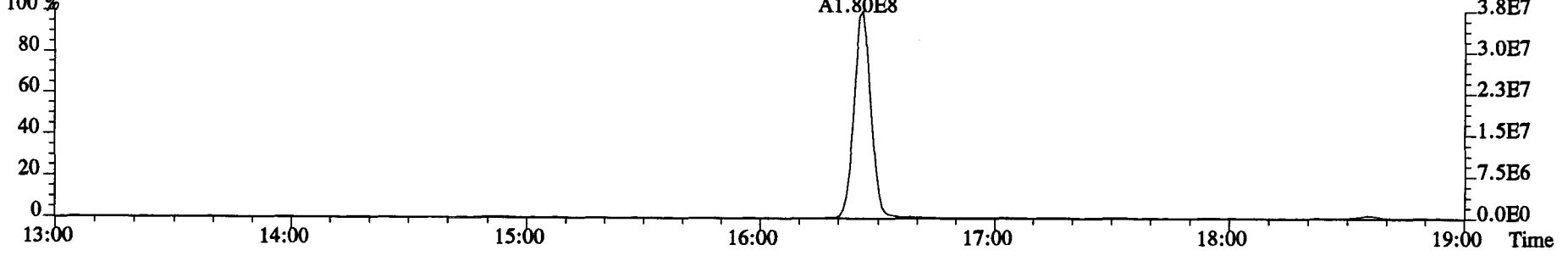
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9224.0,1.00%,F,T)

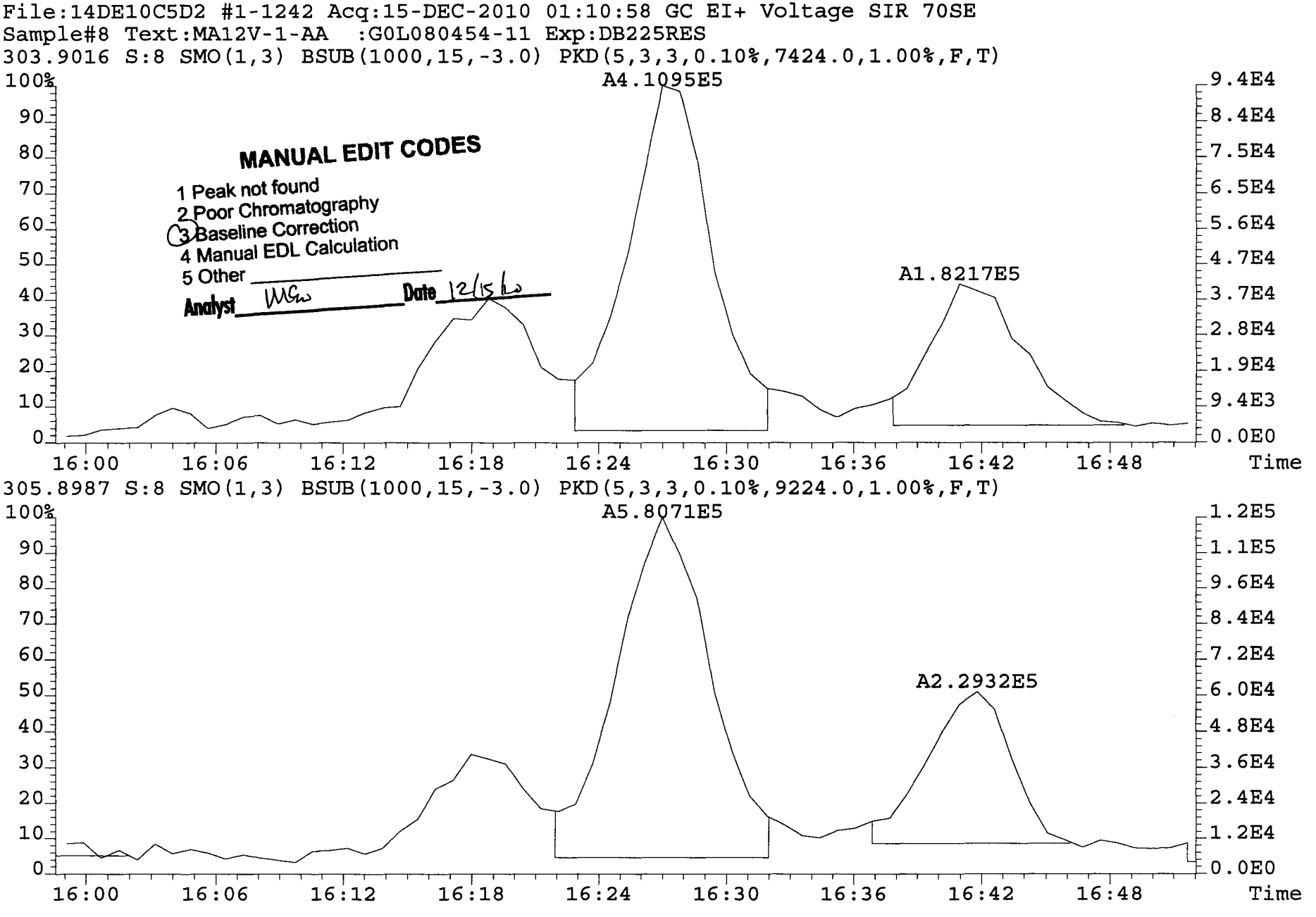


315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,39120.0,1.00%,F,T)

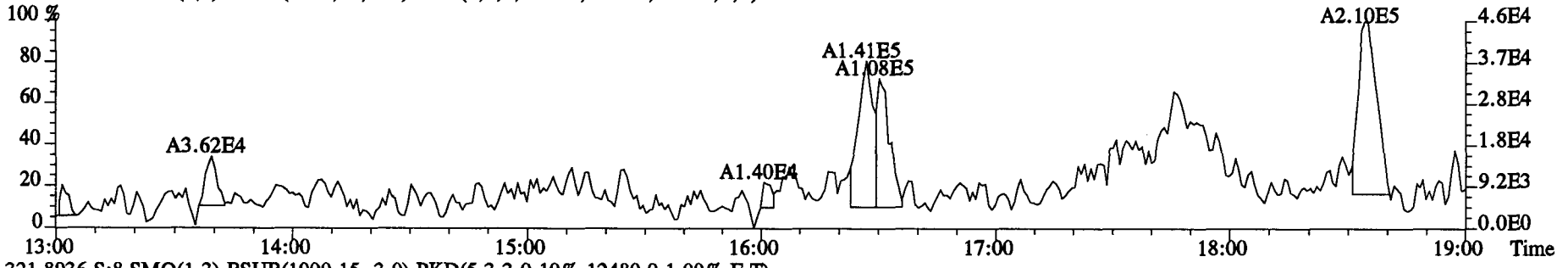


317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64056.0,1.00%,F,T)

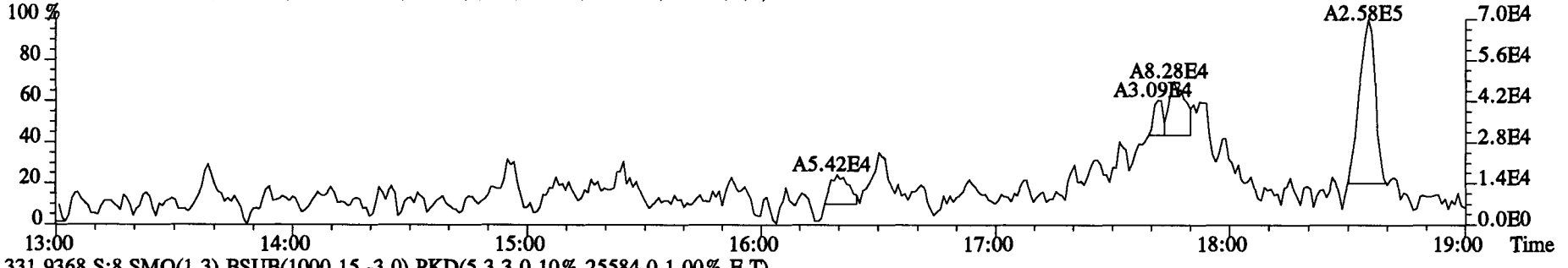



File:14DE10C5D2 #1-1242 Acq:15-DEC-2010 01:10:58 GC EI+ Voltage SIR 70SE
Sample#8 Text:MA12V-1-AA :G0L080454-11 Exp:DB225RES
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7424.0,1.00%,F,T)
A4.1095E5
A1.8217E5
MANUAL EDIT CODES
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other
Analyst MG Date 12/15/10
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9224.0,1.00%,F,T)
A5.8071E5
A2.2932E5
Time

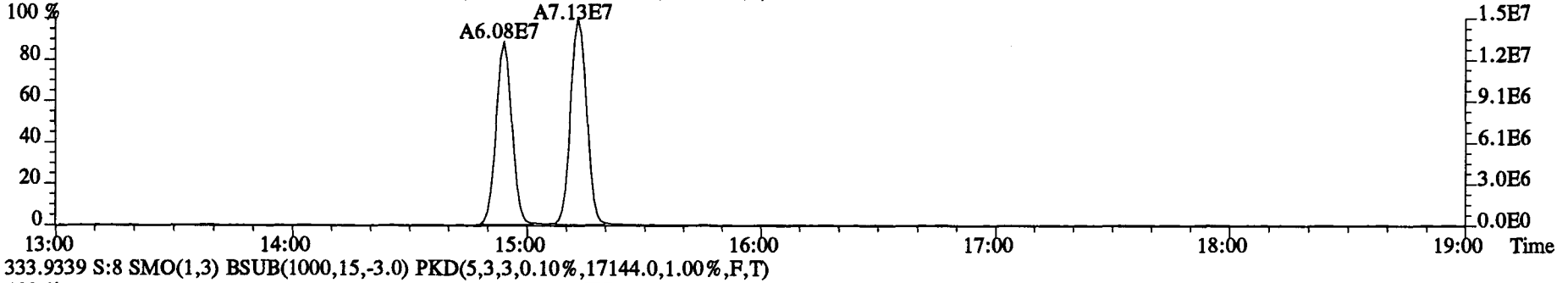
File:14DE10C5D2 #1-1242 Acq:15-DEC-2010 01:10:58 GC EI+ Voltage SIR 70SE
Sample#8 Text:MA12V-1-AA :G0L080454-11 Exp:DB225RES
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8736.0,1.00%,F,T)



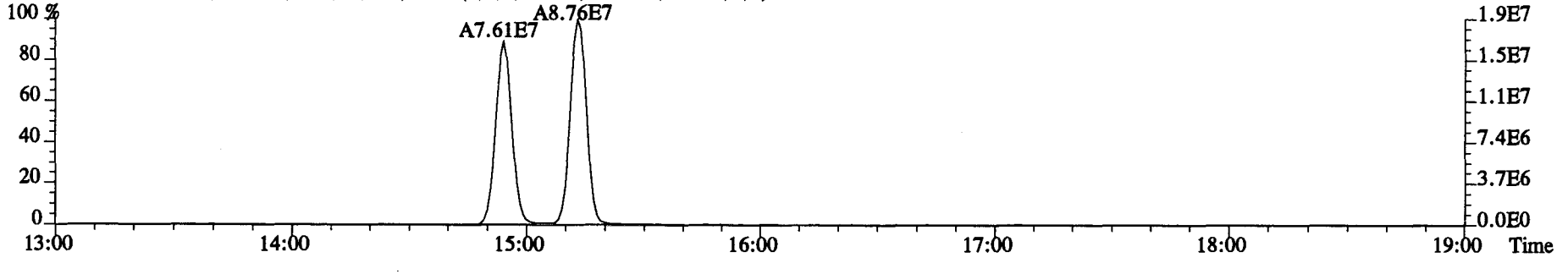
321.8936 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12480.0,1.00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25584.0,1.00%,F,T)

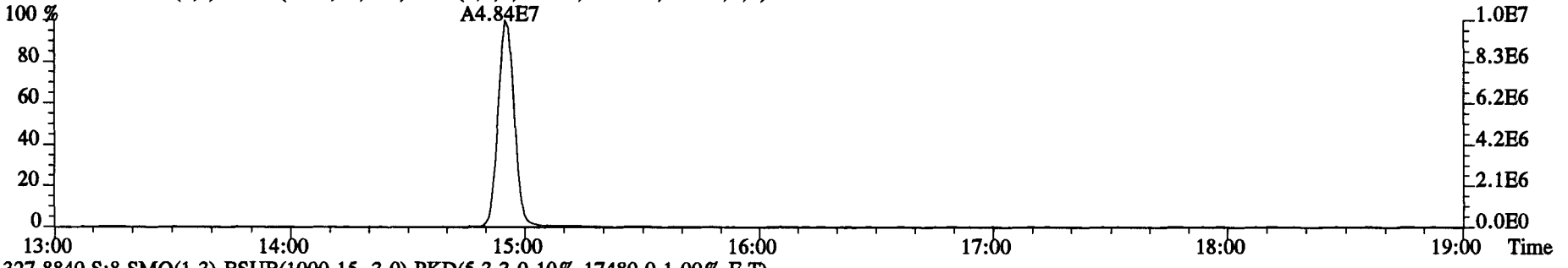


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17144.0,1.00%,F,T)

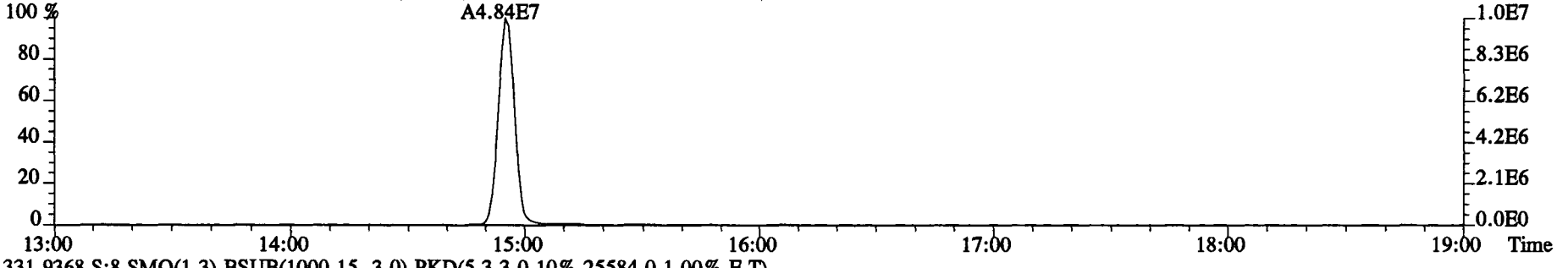


File:14DE10C5D2 #1-1242 Acq:15-DEC-2010 01:10:58 GC EI+ Voltage SIR 70SE
Sample#8 Text:MA12V-1-AA :G0L080454-11 Exp:DB225RES

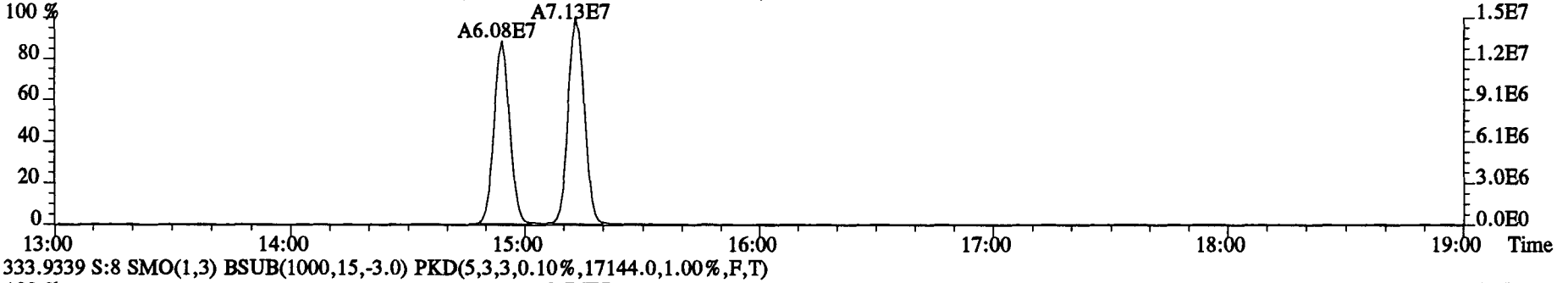
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17480.0,1.00%,F,T)



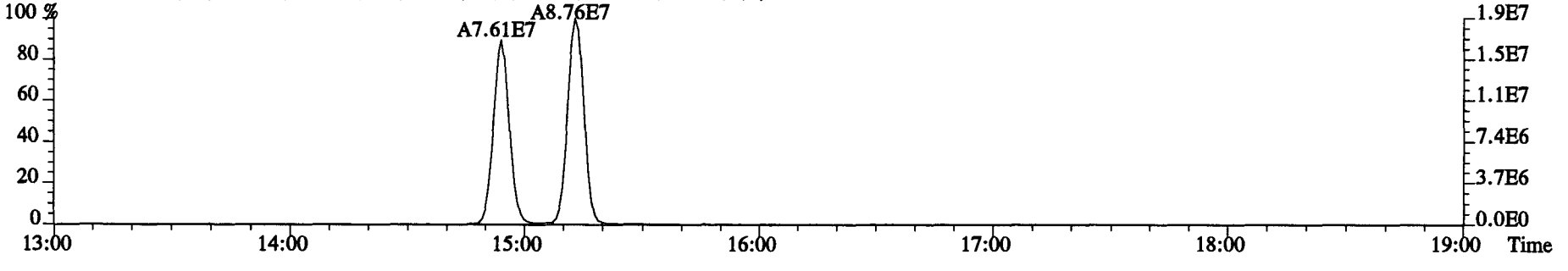
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17480.0,1.00%,F,T)



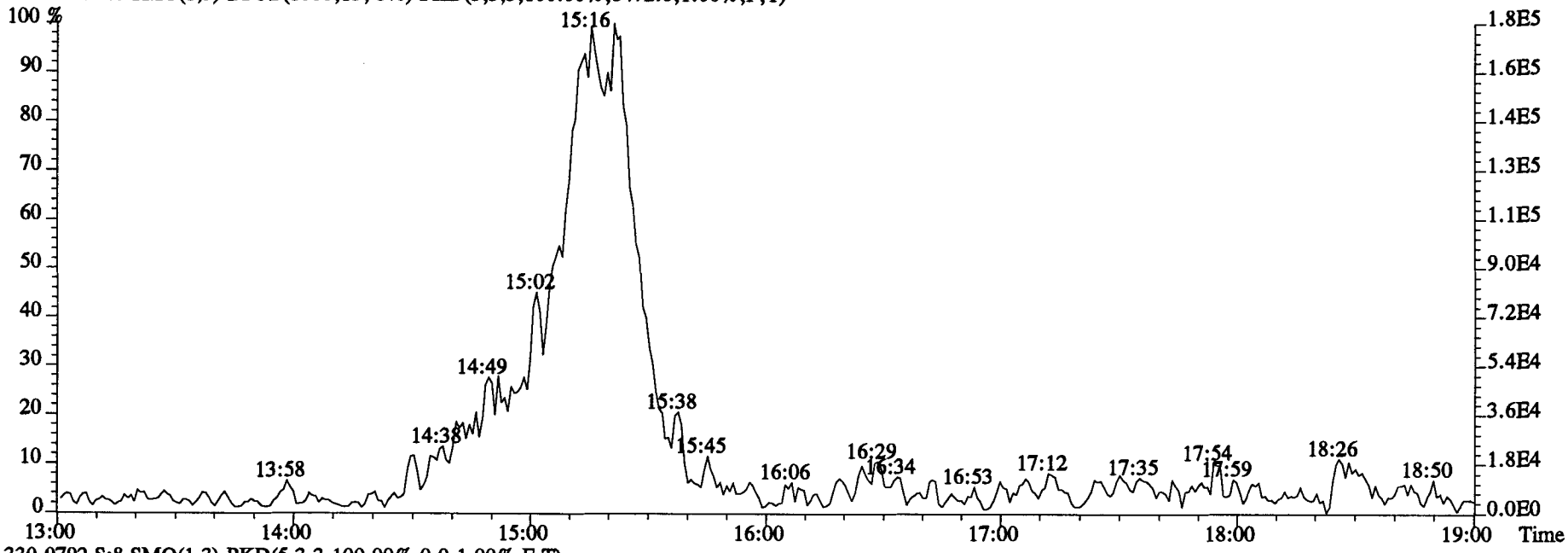
331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25584.0,1.00%,F,T)



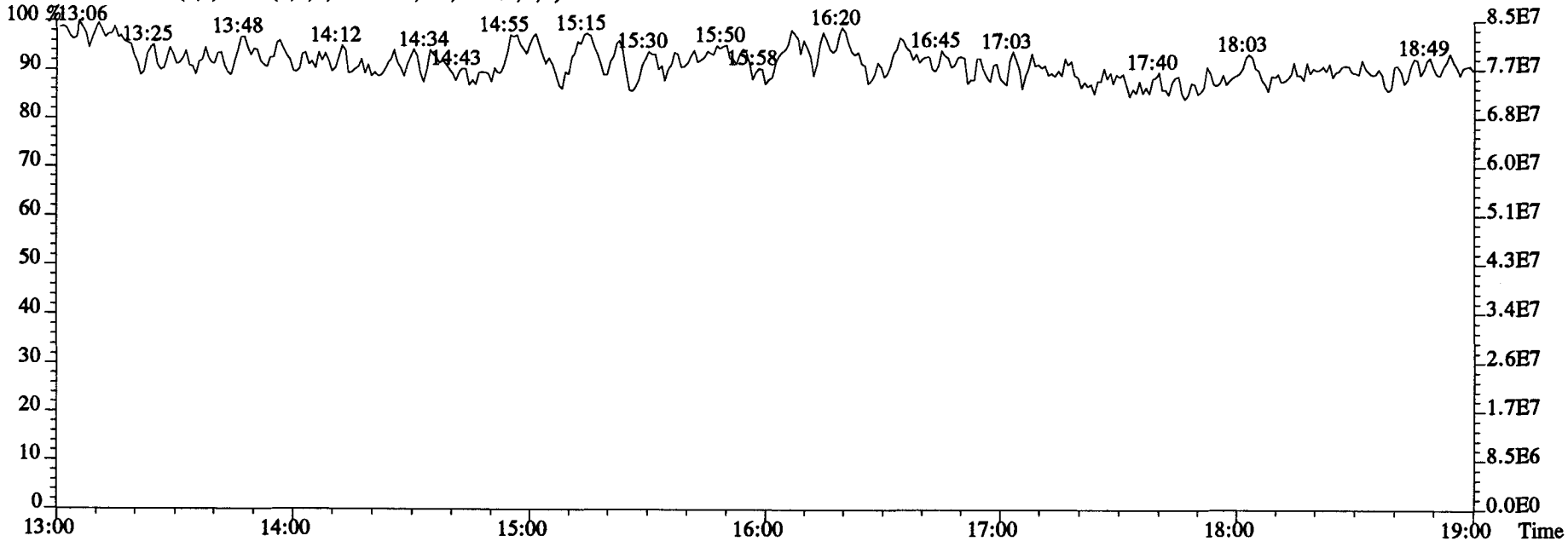
333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17144.0,1.00%,F,T)



File:14DE10C5D2 #1-1242 Acq:15-DEC-2010 01:10:58 GC EI+ Voltage SIR 70SE
Sample#8 Text:MA12V-1-AA :G0L080454-11 Exp:DB225RES
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,8472.0,1.00%,F,T)



330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID TO9 **Associated ICAL** ICA09291010D5TO9

Column ID DB5 **Instrument ID** 10D5

STD ID ST1207J, ST1207K **STD Solution** 10DXN505

Analyzed by MG **Date Analyzed** 12/11/10, 12/11/10

Std. Pkg. By JRB **Date Std. Pkg. Assembled** 12/13/10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12/13/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA NA ✓ 12/15/10 MC
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (for 1613B only)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:25:47 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

#	Name	Response	RT	Pred.RT	RRF M	RRF	Conc.	%Dev	%Rec	Ratio	Ratio ...	Mod.Date
1	13C-1,2,3,4-TCDD	375942	19.87	19.87	1.00000	1.00000	100.00	0.0	100.0	0.788	NO	
2												
3	13C-2,3,7,8-TCDF	516729	19.26	19.26	1.31203	1.37449	104.76	4.8	104.8	0.789	NO	
4	2,3,7,8-TCDF	45793	19.28	19.26	0.99766	0.88621	8.88	-11.2	88.8	0.799	NO	
5	Total TCDFs			21.44	0.99766		8.88					
6												
7	13C-2,3,7,8-TCDD	360210	20.09	20.09	0.90938	0.95815	105.36	5.4	105.4	0.806	NO	
8	2,3,7,8-TCDD	35264	20.11	20.10	1.03464	0.97900	9.46	-5.4	94.6	0.749	NO	
9	Total TCDDs			22.69	1.03464		9.46					
10												
11	37CL-2,3,7,8-TCDD	26293	20.11	20.09	0.65529	0.72992	11.14	11.4	111.4			
12												
13	13C-1,2,3,7,8-PeCDF	395746	25.19	24.92	1.02378	1.05268	102.82	2.8	102.8	1.603	NO	
14	1,2,3,7,8-PeCDF	199630	25.22	25.19	1.09163	1.00888	46.21	-7.6	92.4	1.553	NO	
15	2,3,4,7,8-PeCDF	189379	26.78	26.72	1.06412	0.95707	44.97	-10.1	89.9	1.544	NO	
16	Total F2 PeCDFs			34.47	1.07787		91.18					
17	Total F1 PeCDFs			36.56	1.07787							
18												
19	13C-1,2,3,7,8-PeCDD	274245	27.62	27.29	0.73445	0.72949	99.32	-0.7	99.3	1.584	NO	
20	1,2,3,7,8-PeCDD	120390	27.65	27.62	0.96030	0.87797	45.71	-8.6	91.4	1.541	NO	
21	Total PeCDDs			31.10	0.96030		45.71					
22												
23	13C-1,2,3,7,8,9-HxCDD	291588	33.36	33.27	1.00000	1.00000	100.00	0.0	100.0	1.222	NO	
24												
25	13C-1,2,3,4,7,8-HxCDF	318222	32.26	32.22	1.04941	1.09134	104.00	4.0	104.0	0.524	NO	
26	1,2,3,4,7,8-HxCDF	190719	32.27	32.26	1.31260	1.19865	45.66	-8.7	91.3	1.268	NO	
27	1,2,3,6,7,8-HxCDF	201789	32.38	32.38	1.43801	1.26823	44.10	-11.8	88.2	1.265	NO	
28	2,3,4,6,7,8-HxCDF	204649	32.91	32.92	1.35233	1.28621	47.56	-4.9	95.1	1.272	NO	
29	1,2,3,7,8,9-HxCDF	177200	33.54	33.56	1.19752	1.11369	46.50	-7.0	93.0	1.233	NO	
30	Total HxCDFs			0.00	1.32511		183.81					
31												
32	13C-1,2,3,6,7,8-HxCDD	267395	33.11	33.09	0.90452	0.91703	101.38	1.4	101.4	1.289	NO	
33	1,2,3,4,7,8-HxCDD	131242	33.04	33.04	0.98150	0.98163	50.01	0.0	100.0	1.326	NO	
34	1,2,3,6,7,8-HxCDD	142580	33.12	33.11	1.09425	1.06644	48.73	-2.5	97.5	1.131	NO	
35	1,2,3,7,8,9-HxCDD	146307	33.37	33.38	1.05784	1.09432	51.72	3.4	103.4	1.233	NO	
36	Total HxCDDs			0.00	1.04453		150.46					
37												
38	13C-1,2,3,4,6,7,8-HpCDF	281018	34.89	34.90	0.95391	0.96375	101.03	1.0	101.0	0.449	NO	
39	1,2,3,4,6,7,8-HpCDF	203813	34.90	34.89	1.46280	1.45053	49.58	-0.8	99.2	1.067	NO	
40	1,2,3,4,7,8,9-HpCDF	165522	36.07	36.06	1.23081	1.17802	47.86	-4.3	95.7	1.029	NO	
41	Total HpCDFs			0.00	1.34680		97.44					
42												
43	13C-1,2,3,4,6,7,8-HpCDD	255901	35.73	35.74	0.84836	0.87761	103.45	3.4	103.4	0.998	NO	
44	1,2,3,4,6,7,8-HpCDD	127028	35.74	35.73	1.05453	0.99279	47.07	-5.9	94.1	1.066	NO	
45	Total HpCDDs			0.08	1.05453		47.07					

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Wednesday, December 15, 2010 13:25:07 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:25:47 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

#	Name	Response	RT	Pred.RT	RRF M	RRF	Conc.	%Dev	%Rec	Ratio	Ratio ...	Mod.Date
46												
47	13C-OCDD	382911	38.30	38.34	0.67464	0.65659	194.65	-2.7	97.3	0.874	NO	
48	OCDF	247366	38.42	38.42	1.48610	1.29203	86.94	-13.1	86.9	0.936	NO	
49	OCDD	199679	38.31	38.30	1.14618	1.04295	90.99	-9.0	91.0	0.923	NO	
50												
51												
52	Function 1 PFK			38.25								
53	Function 2 PFK			38.25								
54	Function 3 PFK			38.25								
55	Function 4 PFK			38.25								
56	Function 5 PFK			0.00								
57	TCDF PCDPE			38.25								
58	F1 PeCDF PCDPE			38.25								
59	F2 PeCDF PCDPE			38.25								
60	HXCDF PCDPE			38.25								
61	HPCDF PCDPE			38.25								
62	OCDF PCDPE			0.00								

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

#	Name	Response	RT	Pred.RT	RRF M	RRF	Conc.	%Dev	%Rec	Ratio	Ratio ...	Mod.Date
1	13C-1,2,3,4-TCDD	325598	19.90	19.89	1.00000	1.00000	100.00	0.0	100.0	0.813	NO	
2												
3	13C-2,3,7,8-TCDF	444933	19.28	19.26	1.31203	1.36651	104.15	4.2	104.2	0.783	NO	
4	2,3,7,8-TCDF	40086	19.29	19.28	0.99766	0.90094	9.03	-9.7	90.3	0.804	NO	
5	Total TCDFs			21.44	0.99766		9.03					
6												
7	13C-2,3,7,8-TCDD	309103	20.11	20.12	0.90938	0.94934	104.39	4.4	104.4	0.813	NO	
8	2,3,7,8-TCDD	29798	20.12	20.13	1.03464	0.96401	9.32	-6.8	93.2	0.823	NO	
9	Total TCDDs			22.69	1.03464		9.32					
10												
11	37CL-2,3,7,8-TCDD	21748	20.12	20.11	0.65529	0.70358	10.74	7.4	107.4			
12												
13	13C-1,2,3,7,8-PeCDF	320919	25.21	24.95	1.02378	0.98563	96.27	-3.7	96.3	1.606	NO	
14	1,2,3,7,8-PeCDF	161390	25.23	25.21	1.09163	1.00580	46.07	-7.9	92.1	1.548	NO	
15	2,3,4,7,8-PeCDF	149681	26.81	26.74	1.06412	0.93283	43.83	-12.3	87.7	1.536	NO	
16	Total F2 PeCDFs			34.47	1.07787		89.90					
17	Total F1 PeCDFs			36.56	1.07787							
18												
19	13C-1,2,3,7,8-PeCDD	220613	27.63	27.32	0.73445	0.67756	92.25	-7.7	92.3	1.570	NO	
20	1,2,3,7,8-PeCDD	95990	27.67	27.63	0.96030	0.87021	45.31	-9.4	90.6	1.524	NO	
21	Total PeCDDs			31.10	0.96030		45.31					
22												
23	13C-1,2,3,7,8,9-HxCDD	208538	33.38	33.27	1.00000	1.00000	100.00	0.0	100.0	1.295	NO	
24												
25	13C-1,2,3,4,7,8-HxCDF	225924	32.27	32.24	1.04941	1.08337	103.24	3.2	103.2	0.519	NO	
26	1,2,3,4,7,8-HxCDF	140338	32.28	32.27	1.31260	1.24235	47.32	-5.4	94.6	1.292	NO	
27	1,2,3,6,7,8-HxCDF	155029	32.39	32.39	1.43801	1.37240	47.72	-4.6	95.4	1.209	NO	
28	2,3,4,6,7,8-HxCDF	143693	32.92	32.93	1.35233	1.27205	47.03	-5.9	94.1	1.280	NO	
29	1,2,3,7,8,9-HxCDF	121973	33.55	33.57	1.19752	1.07977	45.08	-9.8	90.2	1.226	NO	
30	Total HxCDFs			0.00	1.32511		187.16					
31												
32	13C-1,2,3,6,7,8-HxCDD	199075	33.12	33.11	0.90452	0.95462	105.54	5.5	105.5	1.246	NO	
33	1,2,3,4,7,8-HxCDD	90939	33.06	33.05	0.98150	0.91362	46.54	-6.9	93.1	1.257	NO	
34	1,2,3,6,7,8-HxCDD	101656	33.13	33.12	1.09425	1.02128	46.67	-6.7	93.3	1.254	NO	
35	1,2,3,7,8,9-HxCDD	99055	33.39	33.39	1.05784	0.99516	47.04	-5.9	94.1	1.241	NO	
36	Total HxCDDs			0.00	1.04453		140.24					
37												
38	13C-1,2,3,4,6,7,8-HpCDF	183784	34.91	34.92	0.95391	0.88130	92.39	-7.6	92.4	0.453	NO	
39	1,2,3,4,6,7,8-HpCDF	133887	34.92	34.91	1.46280	1.45700	49.80	-0.4	99.6	1.032	NO	
40	1,2,3,4,7,8,9-HpCDF	103210	36.08	36.08	1.23081	1.12316	45.63	-8.7	91.3	1.032	NO	
41	Total HpCDFs			0.00	1.34680		95.43					
42												
43	13C-1,2,3,4,6,7,8-HpCDD	163209	35.74	35.76	0.84836	0.78263	92.25	-7.7	92.3	1.053	NO	
44	1,2,3,4,6,7,8-HpCDD	83068	35.75	35.74	1.05453	1.01794	48.27	-3.5	96.5	1.090	NO	
45	Total HpCDDs			0.09	1.05453		48.27					

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

#	Name	Response	RT	Pred.RT	RRF M	RRF	Conc.	%Dev	%Rec	Ratio	Ratio ...	Mod.Date
46												
47	13C-OCDD	254005	38.31	38.36	0.67464	0.60902	180.54	-9.7	90.3	0.902	NO	
48	OCDF	170065	38.43	38.43	1.48610	1.33906	90.11	-9.9	90.1	0.926	NO	
49	OCDD	132683	38.32	38.31	1.14618	1.04472	91.15	-8.9	91.1	0.894	NO	
50												
51												
52	Function 1 PFK			38.25								
53	Function 2 PFK			38.25								
54	Function 3 PFK			38.25								
55	Function 4 PFK			38.25								
56	Function 5 PFK			0.00								
57	TCDF PCDPE			38.25								
58	F1 PeCDF PCDPE			38.25								
59	F2 PeCDF PCDPE			38.25								
60	HXCDF PCDPE			38.25								
61	HPCDF PCDPE			38.25								
62	OCDF PCDPE			0.00								

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
1	07DE10A10D5_1	CS-3 10DXN505	ST1207A	---	---	1.000000
2	07DE10A10D5_2	DB-5 CPSM 10RES076	CP1207A	---		1.000000
3	07DE10A10D5_3	G0K230582-1MB 0334162	MAMJ6-1-AA	8290/Solid	27	10.000000
4	07DE10A10D5_4	G0L010000-404B 0335404	MAP61-1-AA	8290/Water	28	1.000000
5	07DE10A10D5_5	G0K230515-2 0335404	MAGPH-1-AA	8290/Water	28	0.966640
6	07DE10A10D5_6	G0K230515-5 0335404	MAGP5-1-AA	8290/Water	28	0.946290
7	07DE10A10D5_7	G0K230515-7 0335404	MAGQC-1-AA	8290/Water	28	0.928440
8	07DE10A10D5_8	G0K230583-3 0335261	MAHMV-1-AC	8290/Solid	28	5.590000
9	07DE10A10D5_9	G0K230583-4 0335261	MAHMW-1-AC	8290/Solid	28	5.100000
10	07DE10A10D5_10	G0K230583-5 0335261	MAHMX-1-AC	8290/Solid	28	5.440000
11	07DE10A10D5_11	G0K230583-6 0335261	MAHM0-1-AC	8290/Solid	28	5.600000
12	07DE10A10D5_12	G0K300507-1S (10x) 0335257	MAM80-1-AD	8290/Solid	28	10.060000
13	07DE10A10D5_13	G0K300507-1D (10x) 0335257	MAM80-1-AE	8290/Solid	28	10.540000
14	07DE10A10D5_14	G0K300507-1 (10x) 0335257	MAM80-1-AC	8290/Solid	28	10.690000
15	07DE10A10D5_15	G0L010000-404C 0335404	MAP61-1-AC	8290/Water	28	1.000000
16	07DE10A10D5_16	CS-3 10DXN505	ST1207B	---	---	1.000000
17	07DE10A10D5_17	DB-5 CPSM 10RES076	CP1207B	---		1.000000
18	07DE10A10D5_18	G0L060000-366B 0340366	MAXVL-1-AA	8290/Water	31	1.000000
19	07DE10A10D5_19	F0L030530-11 0340366	MAT97-1-AE	8290/Water	31	1.001680
20	07DE10A10D5_20	G0L060000-366C 0340366	MAXVL-1-AC	8290/Water	31	1.000000
21	07DE10A10D5_21	G0L010000-261C 0335261	MAPG5-1-AC	8290/Solid	28	10.000000
22	07DE10A10D5_22	CS-3 10DXN505	ST1207C	---	---	1.000000
23	07DE10A10D5_23	DB-5 CPSM 10RES076	CP1207C	---		1.000000
24	07DE10A10D5_24	G0K230581-1MB 0334160	MAMJQ-1-AA	8290/Solid	26	10.000000
25	07DE10A10D5_25	G0K230583-7 0335261	MAHM1-1-AC	8290/Solid	28	5.120000
26	07DE10A10D5_26	G0K230583-8 0335261	MAHM2-1-AC	8290/Solid	28	5.630000
27	07DE10A10D5_27	G0K230580-1 0333224	MAHLN-1-AC	8290/Solid	25	5.530000
28	07DE10A10D5_28	G0K230580-2 0333224	MAHLR-1-AC	8290/Solid	25	5.560000
29	07DE10A10D5_29	G0K230580-3 0333224	MAHLT-1-AC	8290/Solid	25	5.780000
30	07DE10A10D5_30	G0K230580-4 0333224	MAHLV-1-AC	8290/Solid	25	5.000000
31	07DE10A10D5_31	G0K230580-5 0333224	MAHLW-1-AC	8290/Solid	25	5.160000
32	07DE10A10D5_32	G0K230580-6 0333224	MAHLX-1-AC	8290/Solid	25	5.010000
33	07DE10A10D5_33	G0K230580-7 0333224	MAHL0-1-AC	8290/Solid	25	5.200000
34	07DE10A10D5_34	G0K230580-8 0333224	MAHL1-1-AC	8290/Solid	25	5.140000
35	07DE10A10D5_35	G0K230580-9 0333224	MAHL3-1-AC	8290/Solid	25	5.610000
36	07DE10A10D5_36	G0K230582-1LCS 0334162	MAMJ6-1-AC	8290/Solid	27	10.000000
37	07DE10A10D5_37	CS-3 10DXN505	ST1207D	---	---	1.000000
38	07DE10A10D5_38	DB-5 CPSM 10RES076	CP1207D	---		1.000000
39	07DE10A10D5_39	G0L050000-28B 0339028	MAWLA-1-AA	8290/Solid	30	10.000000
40	07DE10A10D5_40	G0K230580-10 0333224	MAHL9-1-AC	8290/Solid	25	5.980000
41	07DE10A10D5_41	G0K230580-11 0333224	MAHMA-1-AC	8290/Solid	25	5.280000
42	07DE10A10D5_42	G0K230580-12 0333224	MAHMC-1-AC	8290/Solid	25	5.340000
43	07DE10A10D5_43	G0K230580-17 0333224	MAJ82-1-AC	8290/Solid	25	5.100000
44	07DE10A10D5_44	G0K230580-18 0333224	MAJ84-1-AC	8290/Solid	25	5.220000
45	07DE10A10D5_45	G0K230580-19 0333224	MAJ86-1-AC	8290/Solid	25	5.260000
46	07DE10A10D5_46	G0K230580-20 0333224	MAJ87-1-AC	8290/Solid	25	5.220000
47	07DE10A10D5_47	G0K230580-13 0333224	MAHMD-1-AC	8290/Solid	25	5.340000
48	07DE10A10D5_48	G0K230580-14 0333224	MAHME-1-AC	8290/Solid	25	5.460000
49	07DE10A10D5_49	G0K230581-1LCS 0334160	MAMJQ-1-AC	8290/Solid	26	10.000000
50	07DE10A10D5_50	CS-3 10DXN505	ST1207E	---	---	1.000000
51	07DE10A10D5_51	DB-5 CPSM 10RES076	CP1207E	---		1.000000
52	07DE10A10D5_52	G0K190561-1MB 0341193	MA0EW-1-AA	8290/Solid	33	5.000000
53	07DE10A10D5_53	G0L020527-1 0339028	MARGL-1-AA	8290/Solid	30	10.000000
54	07DE10A10D5_54	G0L020529-1 0339028	MARGL-1-AA	8290/Solid	30	10.000000
55	07DE10A10D5_55	G0L050000-28C 0339028	MAWLA-1-AC	8290/Solid	30	10.000000
56	07DE10A10D5_56	G0K230582-1 0334162	MAHMH-1-AC	8290/Solid	27	5.040000
57	07DE10A10D5_57	G0K230582-2 0334162	MAHMJ-1-AC	8290/Solid	27	5.010000
58	07DE10A10D5_58	G0K230582-3 0334162	MAHMK-1-AC	8290/Solid	27	4.950000

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
117	07DE10A10D5_117	G0K170531-9RX 0343275	L967E-2-AA	8290/Solid	35	10.155000
118	07DE10A10D5_118	G0K220524-1LCS 0327264	MAF68-1-AC	23/Air	29	0.333300
119	07DE10A10D5_119	CS-3 10DXN505	ST1207J	---	---	1.000000
120	07DE10A10D5_120	DB-5 CPSM 10RES076	CP1207J	---		1.000000
121	07DE10A10D5_121	G0K170531-1MB 0343275	MA4R2-1-AA	8290/Solid	35	10.000000
122	07DE10A10D5_122	G0K170531-1LCS 0343275	MA4R2-1-AC	8290/Solid	35	10.000000
123	07DE10A10D5_123	G0L040465-1MB 0343325	MA45N-1-AA	TO9/Air	34	0.500000
124	07DE10A10D5_124	G0L040465-1LCS 0343325	MA45N-1-AC	TO9/Air	34	0.500000
125	07DE10A10D5_125	G0L040465-11 0343325	MAWFF-1-AC	TO9/Air	34	0.500000
126	07DE10A10D5_126	G0L040465-12 0343325	MAWFG-1-AC	TO9/Air	34	0.500000
127	07DE10A10D5_127	G0L080454-1LCS 0342379	MA3AG-1-AC	TO9/Air	34	0.500000
128	07DE10A10D5_128	G0L080454-1DCS 0342379	MA3AG-1-AD	TO9/Air	34	0.500000
129	07DE10A10D5_129	G0L080454-2 0342379	MA1X3-1-AA	TO9/Air	34	0.500000
130	07DE10A10D5_130	G0L080454-5 0342379	MA11D-1-AA	TO9/Air	34	0.500000
131	07DE10A10D5_131	G0L080454-8 0342379	MA112-1-AA	TO9/Air	34	0.500000
132	07DE10A10D5_132	G0L080454-11 0342379	MA12V-1-AA	TO9/Air	34	0.500000
133	07DE10A10D5_133	G0L040465-1DCS 0343325	MA45N-1-AD	TO9/Air	34	0.500000
134	07DE10A10D5_134	CS-3 10DXN505	ST1207K	---	---	1.000000
135	07DE10A10D5_135	DB-5 CPSM 10RES076	CP1207K	---		1.000000
136	07DE10A10D5_136	G0L080454-1MB 0342379	MA3AG-1-AA	TO9/Air	34	0.500000
137	07DE10A10D5_137	G0L080567-1 0342356	MA2QM-1-AC	8290/Solid	35	10.000000
138	07DE10A10D5_138	G0L080567-1S 0342356	MA2QM-1-AD	8290/Solid	35	10.000000
139	07DE10A10D5_139	G0L080567-1D 0342356	MA2QM-1-AE	8290/Solid	35	10.000000
140	07DE10A10D5_140	G0L080567-2 0342356	MA2QR-1-AC	8290/Solid	35	10.000000
141	07DE10A10D5_141	G0L080567-3 0342356	MA2QV-1-AC	8290/Solid	35	10.000000
142	07DE10A10D5_142	G0L080567-4 0342356	MA2QW-1-AC	8290/Solid	35	10.000000
143	07DE10A10D5_143	G0L080567-5 0342356	MA2Q0-1-AC	8290/Solid	35	10.000000
144	07DE10A10D5_144	G0L080567-6 0342356	MA2Q1-1-AC	8290/Solid	35	10.000000
145	07DE10A10D5_145	G0L080567-7 0342356	MA2Q2-1-AC	8290/Solid	35	10.000000
146	07DE10A10D5_146	G0L080567-8 0342356	MA2Q3-1-AC	8290/Solid	35	10.000000
147	07DE10A10D5_147	G0L080567-9 0342356	MA2Q6-1-AC	8290/Solid	35	10.000000
148	07DE10A10D5_148	G0L080567-1LCS 0342356	MA219-1-AC	8290/Solid	35	10.000000
149	07DE10A10D5_149	CS-3 10DXN505	ST1207L	---	---	1.000000
150	07DE10A10D5_150	DB-5 CPSM 10RES076	CP1207L	---		1.000000
151	07DE10A10D5_151	G0L080567-1MB 0342356	MA219-1-AA	8290/Solid	35	10.000000
152	07DE10A10D5_152	G0L080000-159B 0342159	MA1MX-1-AA	8290/Solid	34	10.000000
153	07DE10A10D5_153	G0L030627-1 0340368	MAVWN-1-AN	8290/Water	31	1.050970
154	07DE10A10D5_154	G0L030627-2 0340368	MAVW0-1-AN	8290/Water	31	1.044650
155	07DE10A10D5_155	G0L080567-10 0342356	MA2Q7-1-AC	8290/Solid	35	10.000000
156	07DE10A10D5_156	G0L080567-11 0342356	MA2RA-1-AC	8290/Solid	35	10.000000
157	07DE10A10D5_157	G0L040475-1 0342159	MAWH4-1-AA	8290/Solid	34	2.170000
158	07DE10A10D5_158	G0L040475-2 0342159	MAWH5-1-AA	8290/Solid	34	9.600000
159	07DE10A10D5_159	G0L040475-3 0342159	MAWH6-1-AA	8290/Solid	34	10.270000
160	07DE10A10D5_160	G0L040475-4 0342159	MAWH7-1-AA	8290/Solid	34	10.150000
161	07DE10A10D5_161	G0L080000-159C 0342159	MA1MX-1-AC	8290/Solid	34	10.000000
162	07DE10A10D5_162	CS-3 10DXN505	ST1207M	---	---	1.000000
163	07DE10A10D5_163	DB-5 CPSM 10RES076	CP1207M	---		1.000000
164	07DE10A10D5_164	Solvent Blank C-14	SB1207	---		1.000000

logfile Verified
JRB 12/13/10

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
59	07DE10A10D5_59	G0K230582-4 0334162	MAHML-1-AC	8290/Solid	27	5.010000
60	07DE10A10D5_60	G0K230582-5 0334162	MAHMM-1-AC	8290/Solid	27	5.020000
61	07DE10A10D5_61	G0K230580-15 0333224	MAHMF-1-AC	8290/Solid	25	5.480000
62	07DE10A10D5_62	G0K230580-16 0333224	MAHMG-1-AC	8290/Solid	25	5.120000
63	07DE10A10D5_63	G0K190561-1LCS 0341193	MA0EW-1-AC	8290/Solid	33	5.000000
64	07DE10A10D5_64	CS-3 10DXN505	ST1207F	---	---	1.000000
65	07DE10A10D5_65	DB-5 CPSM 10RES076	CP1207F	---		1.000000
66	07DE10A10D5_66	G0L0740427-1MB 0343158	MA31C-1-AA	8290/Solid	34	10.000000
67	07DE10A10D5_67	G0L070427-1RX 0343158	MA0A0-2-AA	8290/Solid	34	15.080000
68	07DE10A10D5_68	G0L070427-1MS 0343158	MA0A0-2-AD	8290/Solid	34	15.160000
69	07DE10A10D5_69	G0L070427-1MSD 0343158	MA0A0-2-AE	8290/Solid	34	15.000000
70	07DE10A10D5_70	G0L070427-2RX 0343158	MA0A2-2-AA	8290/Solid	34	15.170000
71	07DE10A10D5_71	G0L070427-3RX 0343158	MA0A3-2-AA	8290/Solid	34	15.000000
72	07DE10A10D5_72	G0L0740427-1LCS 0343158	MA31C-1-AC	8290/Solid	34	10.000000
73	07DE10A10D5_73	G0L0740427-1LCSD 0343158	MA31C-1-AD	8290/Solid	34	10.000000
74	07DE10A10D5_74	CS-3 10DXN505	ST1207G	---	---	1.000000
75	07DE10A10D5_75	DB-5 CPSM 10RES076	CP1207G	---		1.000000
76	07DE10A10D5_76	G0L080447-1MB 0342385	MA3AH-1-AA	8290/Water	34	1.000000
77	07DE10A10D5_77	G0L080447-1 0342385	MA1WP-1-AA	8290/Water	34	0.769750
78	07DE10A10D5_78	G0K230582-6 0334162	MAHMN-1-AC	8290/Solid	27	4.970000
79	07DE10A10D5_79	G0K230582-7 0334162	MAHMP-1-AC	8290/Solid	27	5.000000
80	07DE10A10D5_80	G0K230582-8 0334162	MAHMQ-1-AC	8290/Solid	27	4.960000
81	07DE10A10D5_81	G0K190561-1RX 0341193	MAA0W-3-AA	8290/Solid	33	2.092000
82	07DE10A10D5_82	G0K190561-2RX 0341193	MAA0X-3-AA	8290/Solid	33	2.050000
83	07DE10A10D5_83	G0K190561-3RX 0341193	MAA00-3-AA	8290/Solid	33	2.000000
84	07DE10A10D5_84	G0K190561-4RX 0341193	MAA01-3-AA	8290/Solid	33	5.175000
85	07DE10A10D5_85	G0K190561-5RX 0341193	MAA02-3-AA	8290/Solid	33	1.930000
86	07DE10A10D5_86	G0K190561-6RX 0341193	MAA03-3-AA	8290/Solid	33	5.000000
87	07DE10A10D5_87	G0K190561-7RX 0341193	MAA04-3-AA	8290/Solid	33	5.205000
88	07DE10A10D5_88	G0L080447-1LCS 0342385	MA3AH-1-AC	8290/Water	34	1.000000
89	07DE10A10D5_89	CS-3 10DXN505	ST1207H	---	---	1.000000
90	07DE10A10D5_90	DB-5 CPSM 10RES076	CP1207H	---		1.000000
91	07DE10A10D5_91	110910MDLM23XAD	MB	23	15	1.000000
92	07DE10A10D5_92	110910MDLM23XAD	MDL-1	23	15	1.000000
93	07DE10A10D5_93	110910MDLM23XAD	MDL-2	23	15	1.000000
94	07DE10A10D5_94	110910MDLM23XAD	MDL-3	23	15	1.000000
95	07DE10A10D5_95	110910MDLM23XAD	MDL-4	23	15	1.000000
96	07DE10A10D5_96	110910MDLM23XAD	MDL-5	23	15	1.000000
97	07DE10A10D5_97	110910MDLM23XAD	MDL-6	23	15	1.000000
98	07DE10A10D5_98	110910MDLM23XAD	MDL-7	23	15	1.000000
99	07DE10A10D5_99	110910MDLM23XAD	MDL-Check	23	15	1.000000
100	07DE10A10D5_100	G0K190561-8RX 0341193	MAA05-3-AA	8290/Solid	33	5.190000
101	07DE10A10D5_101	G0K190561-9RX 0341193	MAA06-3-AA	8290/Solid	33	4.935000
102	07DE10A10D5_102	G0K190561-10RX 0341193	MAA08-3-AA	8290/Solid	33	5.215000
103	07DE10A10D5_103	G0K190561-11RX 0341193	MAA09-3-AA	8290/Solid	33	2.028000
104	07DE10A10D5_104	CS-3 10DXN505	ST1207I	---	---	1.000000
105	07DE10A10D5_105	DB-5 CPSM 10RES076	CP1207I	---		1.000000
106	07DE10A10D5_106	G0K220524-1MB 0327264	MAF68-1-AA	23/Air	29	0.333333
107	07DE10A10D5_107	G0K220524-1 0327264	MAFEC-1-AA	23/Air	29	0.333333
108	07DE10A10D5_108	G0K220524-2 0327264	MAFED-1-AA	23/Air	29	0.333333
109	07DE10A10D5_109	G0K170531-1RX 0343275	L9664-2-AA	8290/Solid	35	9.665000
110	07DE10A10D5_110	G0K170531-2RX 0343275	L9665-2-AA	8290/Solid	35	10.170000
111	07DE10A10D5_111	G0K170531-3RX 0343275	L9666-2-AA	8290/Solid	35	10.065000
112	07DE10A10D5_112	G0K170531-4RX 0343275	L9668-2-AA	8290/Solid	35	2.040000
113	07DE10A10D5_113	G0K170531-5RX 0343275	L9669-2-AA	8290/Solid	35	0.202500
114	07DE10A10D5_114	G0K170531-6RX 0343275	L967A-2-AA	8290/Solid	35	0.207700
115	07DE10A10D5_115	G0K170531-7RX 0343275	L967C-2-AA	8290/Solid	35	9.860000
116	07DE10A10D5_116	G0K170531-8RX 0343275	L967D-2-AA	8290/Solid	35	1.007500

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:5	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:6	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:7	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:8	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:9	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:10	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:11	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:12	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:13	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:14	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:15	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:16	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:17	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:25	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:30	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:28	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:29	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:31	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:18	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:19	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:20	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:21	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:22	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:23	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:24	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:26	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:27	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:32	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:33	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:34	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:35	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:36	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:37	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:38	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:39	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:40	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:41	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:42	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:43	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:44	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:47	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:48	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:49	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:50	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:51	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:52	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:53	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:54	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:55	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:56	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:45	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:46	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:70	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:71	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:74	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:75	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:76	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:77	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:78	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:72	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:73	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:57	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:58	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:59	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:60	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:61	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:62	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:63	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:64	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:65	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:66	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:67	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:68	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:69	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:5	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:6	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:7	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:8	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:9	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:10	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:11	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:12	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:13	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:14	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:15	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:16	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:17	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:18	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:19	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:20	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:21	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:22	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:23	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:24	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:25	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:26	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:27	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:28	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:29	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:30	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:31	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:32	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:33	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:34	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:35	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:36	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:37	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:38	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:39	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:40	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:41	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:42	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:43	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:44	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:45	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:46	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:47	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:48	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:49	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:50	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:51	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:52	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:53	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:54	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:55	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:56	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:57	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:62	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:60	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:61	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:58	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:59	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:63	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:64	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:65	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:66	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:67	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:3	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
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100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
---	---	---	---	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
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2000	4000	800	2000	---	---	---
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100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
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100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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1000	2000	800	2000	---	---	---
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100	200	10	100	100	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
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100	200	10	100	100	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
200	400	800	2000	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
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100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
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2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
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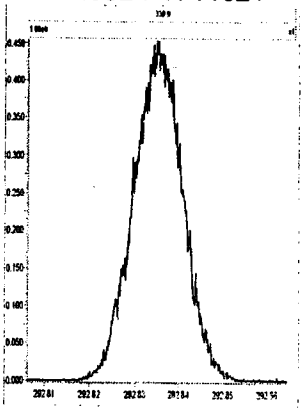
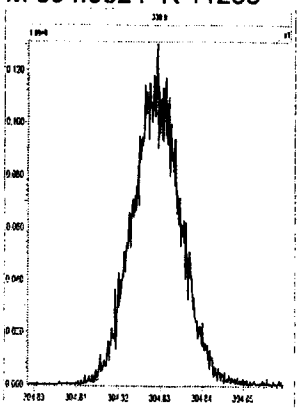
Printed: Saturday, December 11, 2010 10:33:23 Pacific Standard Time

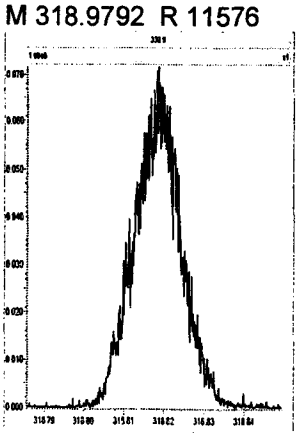
M 292.9824 R 11821



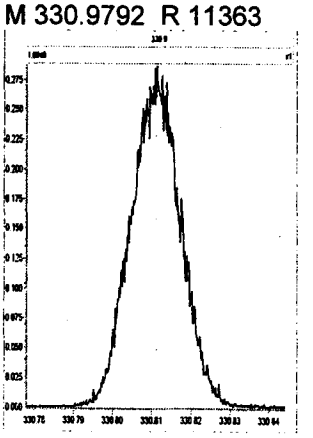
M 304.9824 R 11263



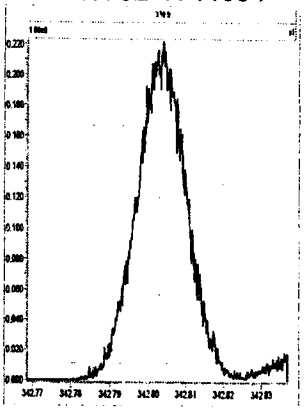
M 318.9792 R 11576



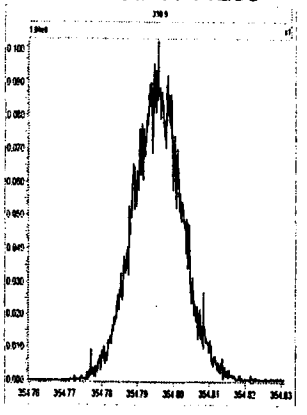
M 330.9792 R 11363



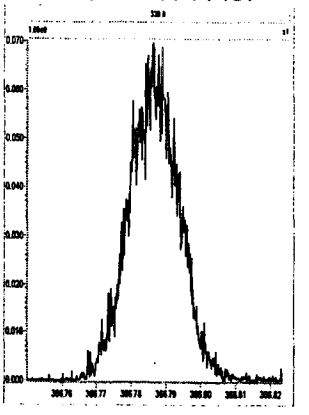
M 342.9792 R 11654



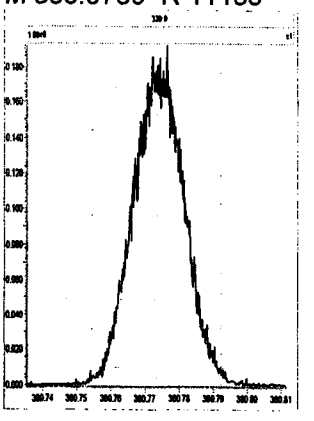
M 354.9792 R 11286



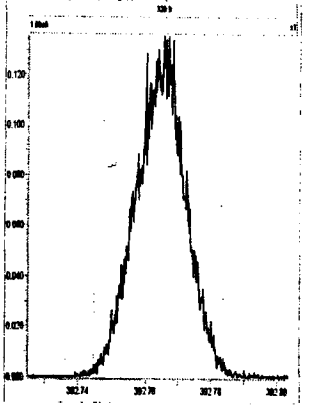
M 366.9792 R 11467



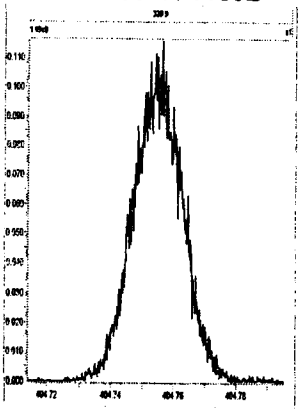
M 380.9760 R 11185



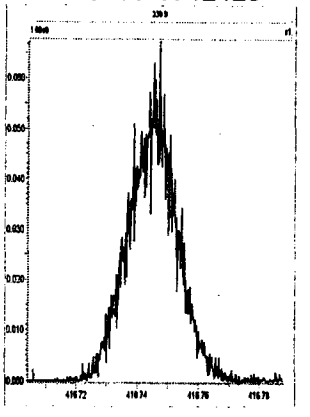
M 392.9760 R 11415



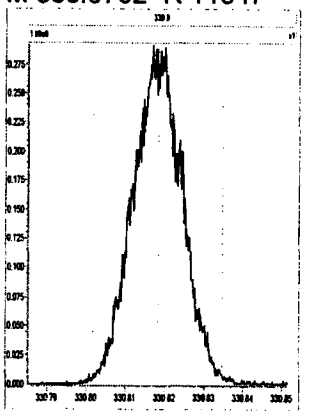
M 404.9760 R 11392



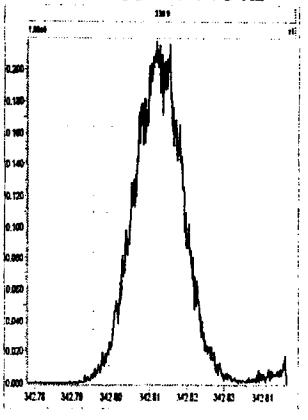
M 416.9760 R 12126



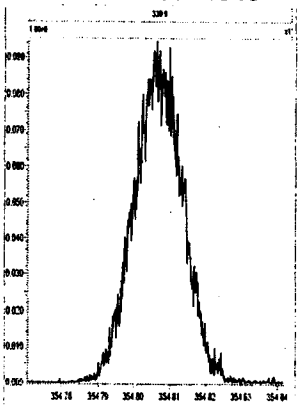
M 330.9792 R 11547



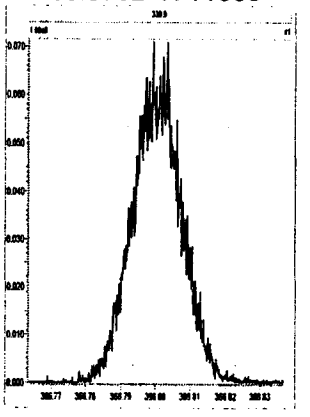
M 342.9792 R 11312



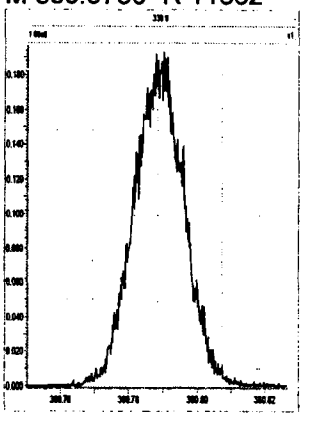
M 354.9792 R 11340



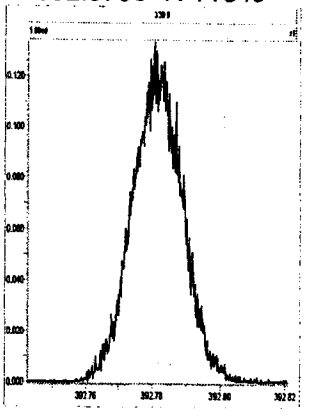
M 366.9792 R 11063



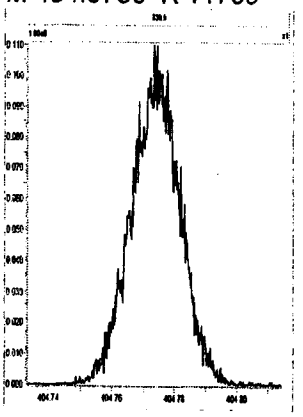
M 380.9760 R 11662



M 392.9760 R 11849



M 404.9760 R 11709



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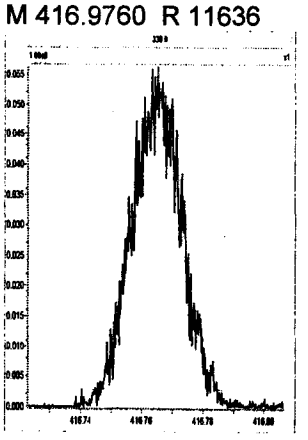

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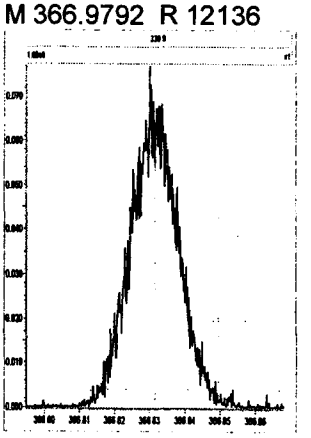

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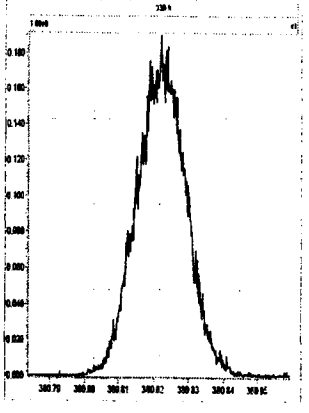

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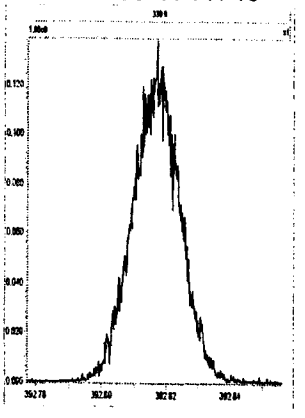
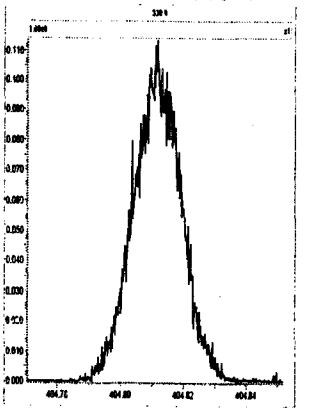
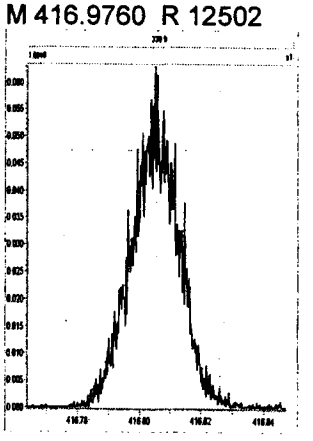


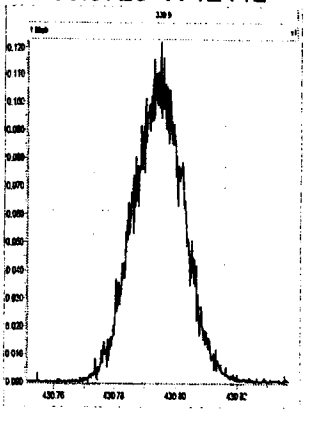
M 404.9760 R 11577



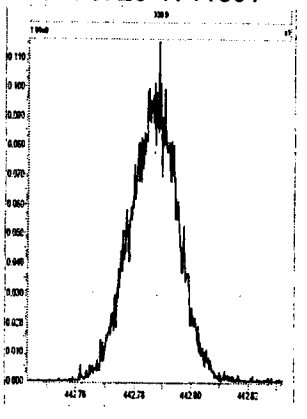
M 416.9760 R 12502



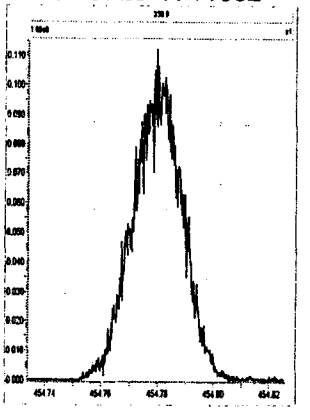
M 430.9728 R 12112



M 442.9728 R 11601



M 454.9728 R 11682



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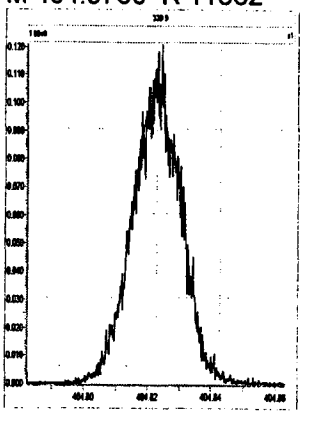

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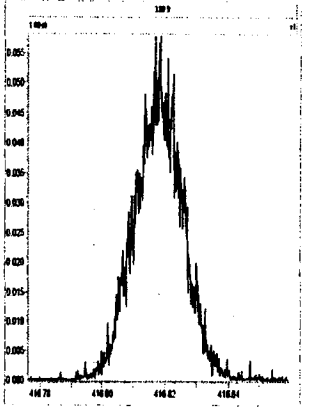
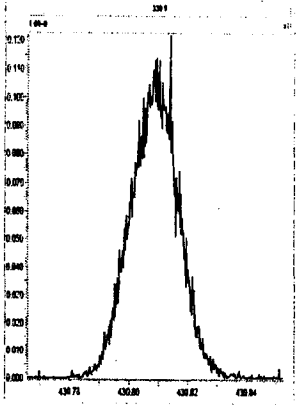


M 430.9728 R 11792



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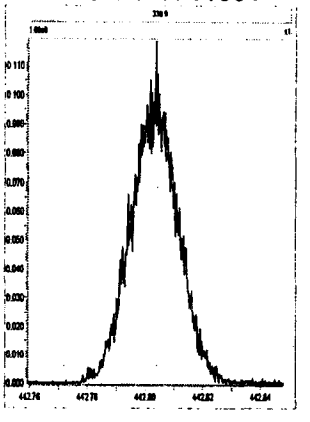
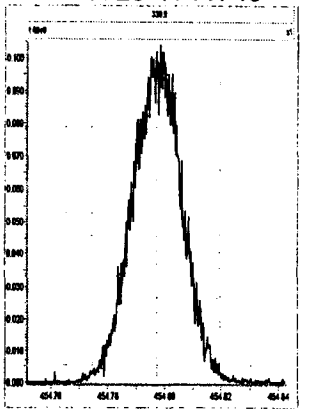
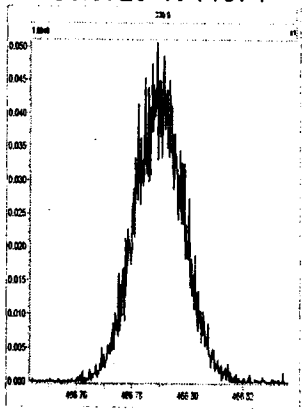


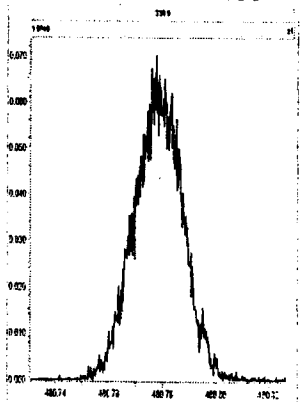
M 454.9728 R 11740



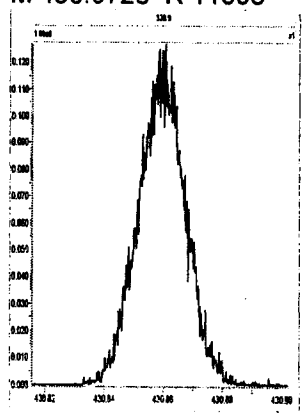
M 466.9728 R 11874



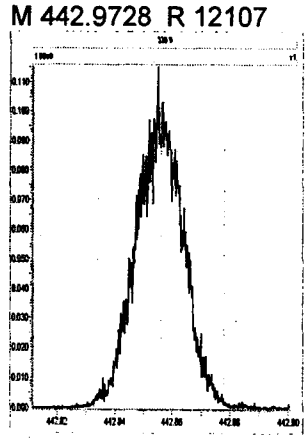
M 480.9696 R 12196



M 430.9728 R 11908



M 442.9728 R 12107



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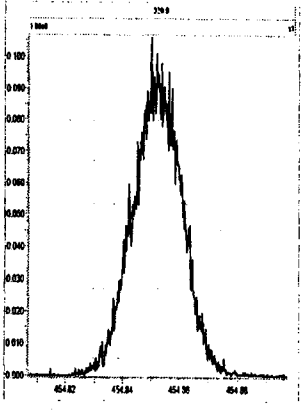

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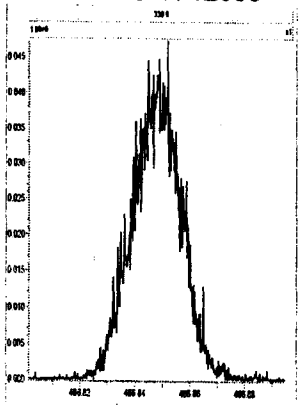
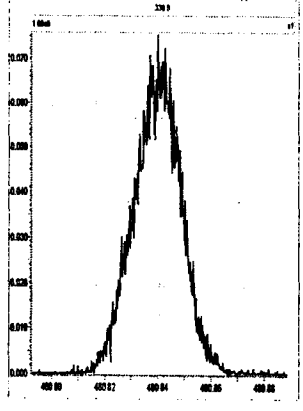
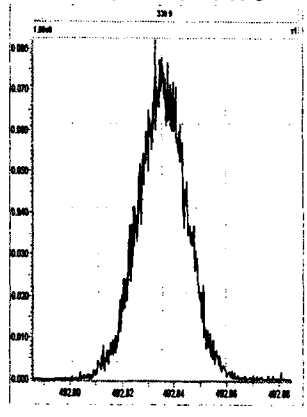


M 480.9696 R 12544



M 492.9696 R 11476



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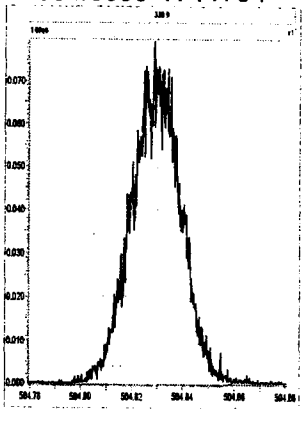
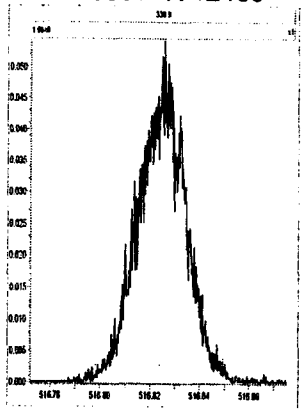


M 516.9697 R 12106



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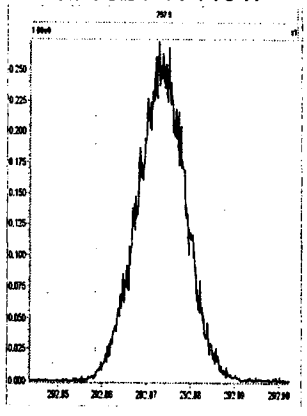
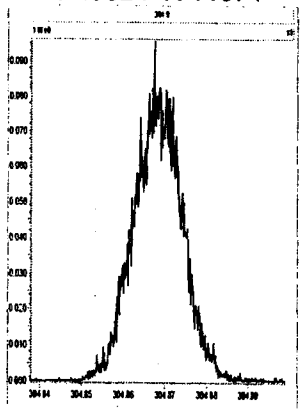
M 292.9824 R 11647



M 304.9824 R 11574



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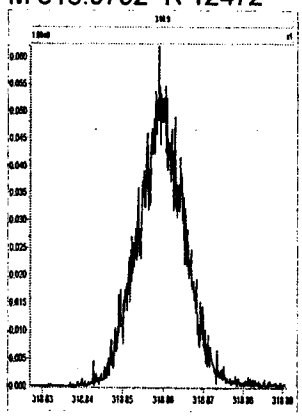
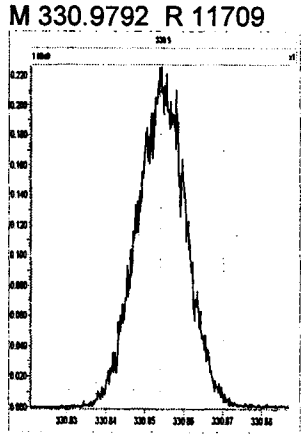
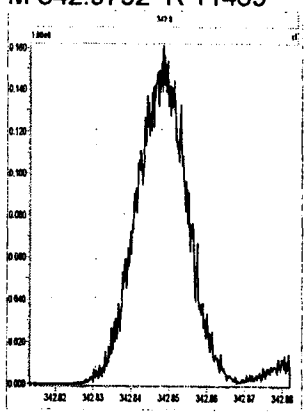


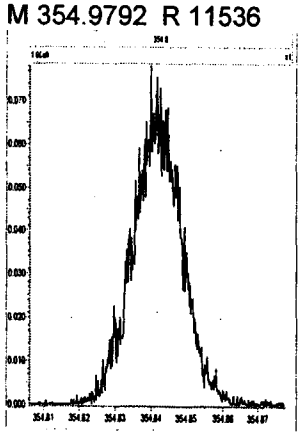
M 330.9792 R 11709



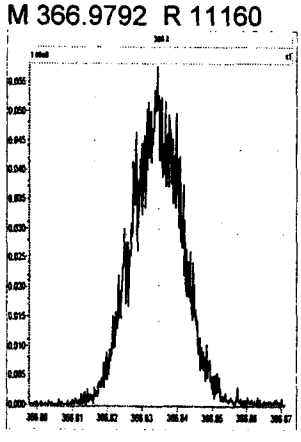
M 342.9792 R 11469



M 354.9792 R 11536



M 366.9792 R 11160



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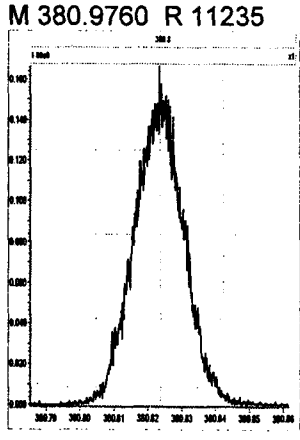
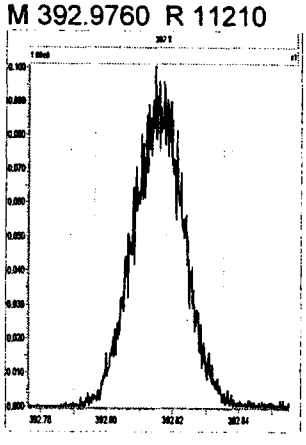
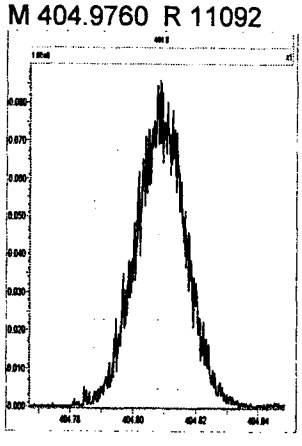


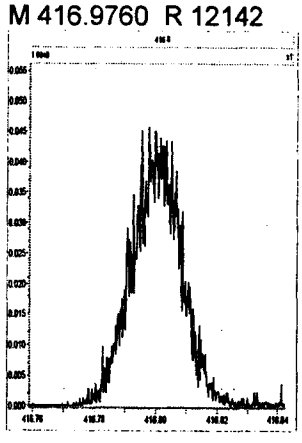
M 392.9760 R 11210



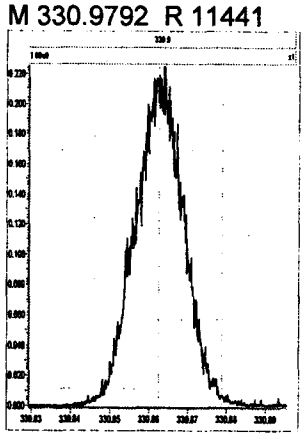
M 404.9760 R 11092



M 416.9760 R 12142



M 330.9792 R 11441



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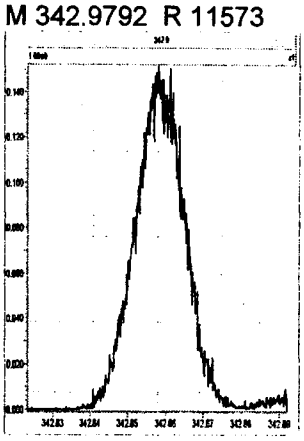
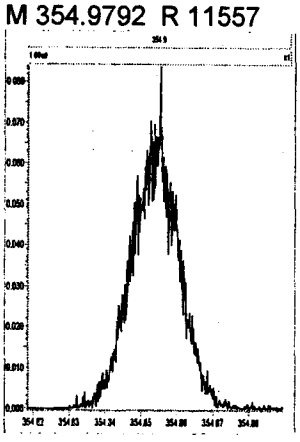


M 354.9792 R 11557



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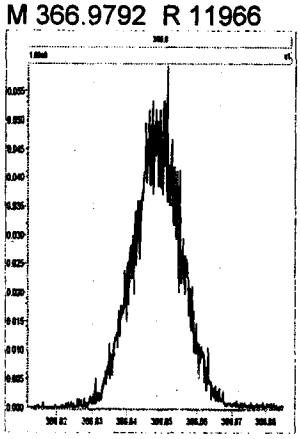

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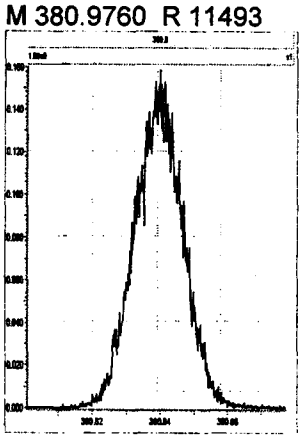
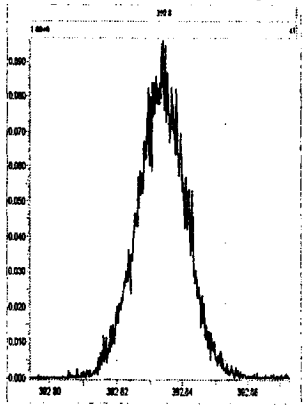
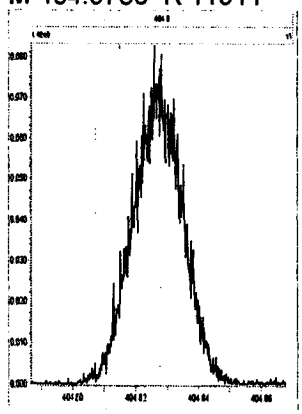


M 392.9760 R 11448



M 404.9760 R 11911



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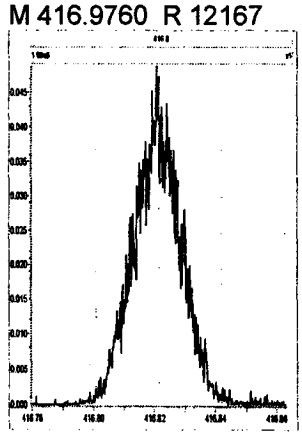

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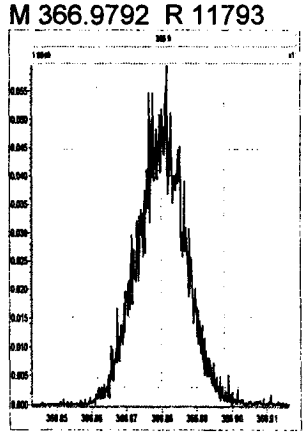

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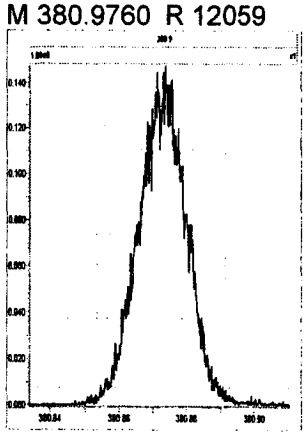

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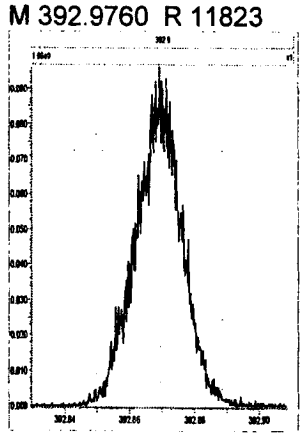
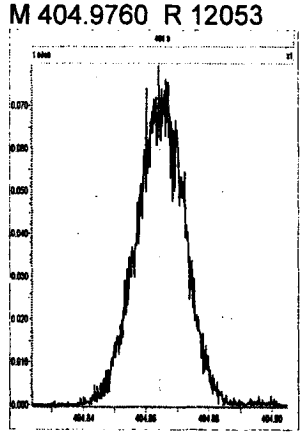
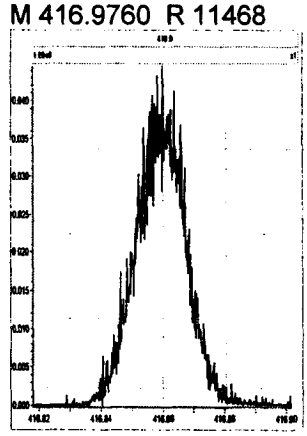


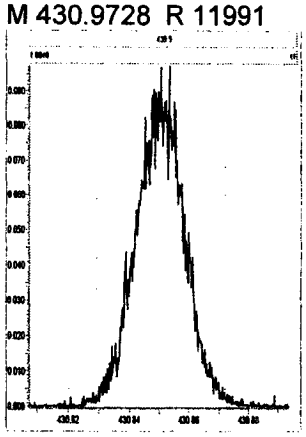
M 404.9760 R 12053



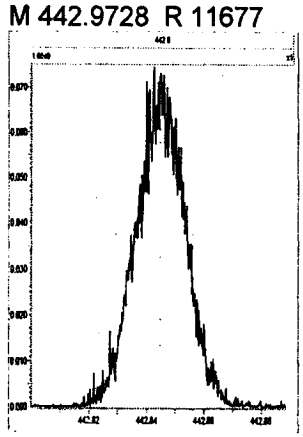
M 416.9760 R 11468



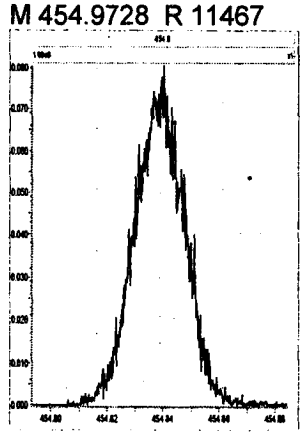
M 430.9728 R 11991



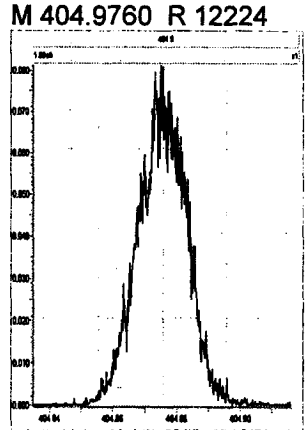
M 442.9728 R 11677



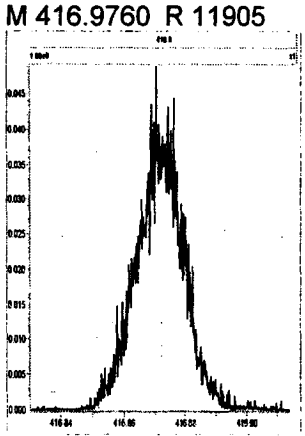
M 454.9728 R 11467



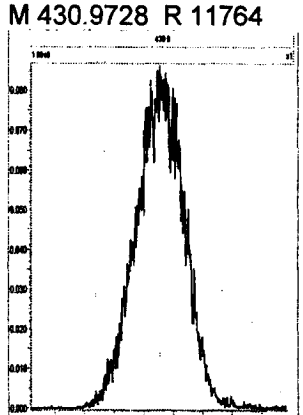
M 404.9760 R 12224



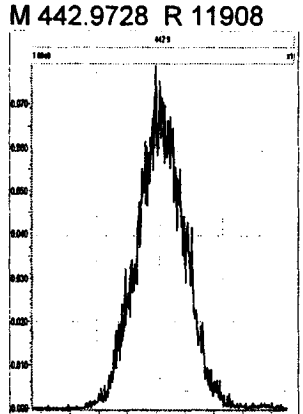
M 416.9760 R 11905



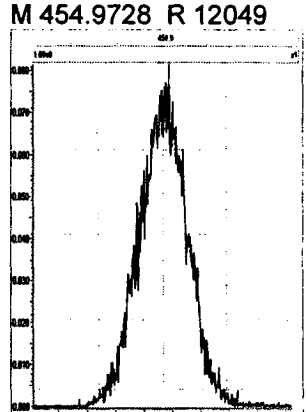
M 430.9728 R 11764



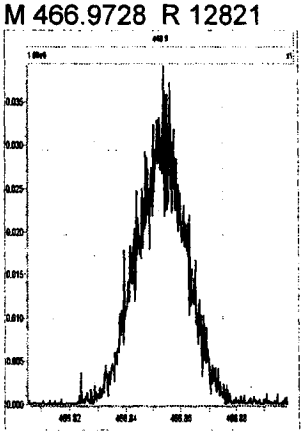
M 442.9728 R 11908



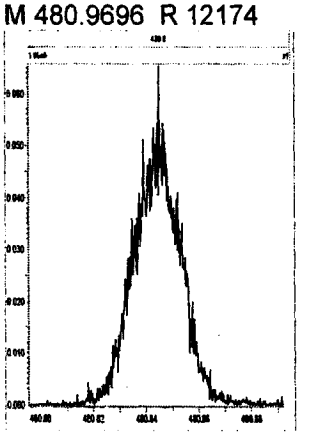
M 454.9728 R 12049



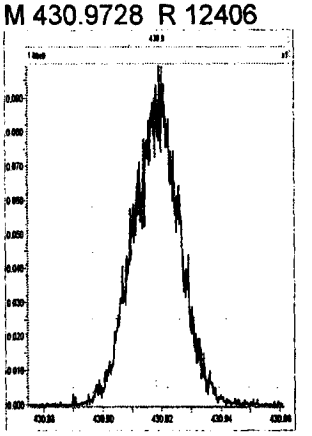
M 466.9728 R 12821



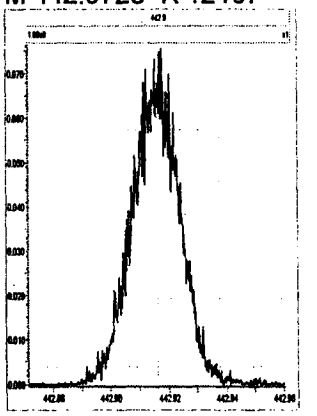
M 480.9696 R 12174



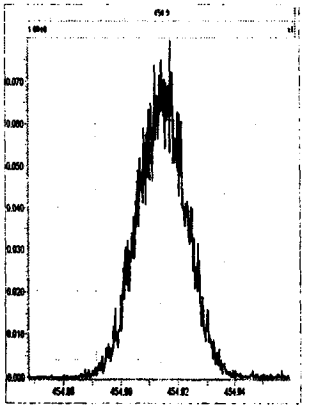
M 430.9728 R 12406



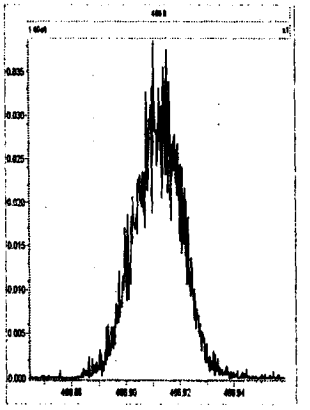
M 442.9728 R 12107



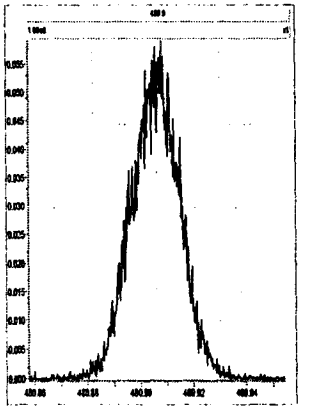
M 454.9728 R 11907



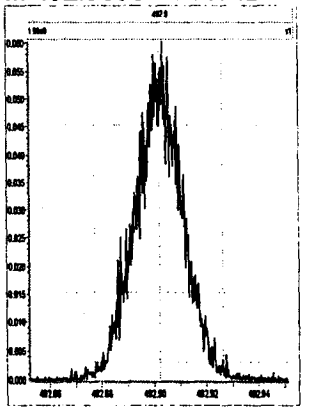
M 466.9728 R 11823



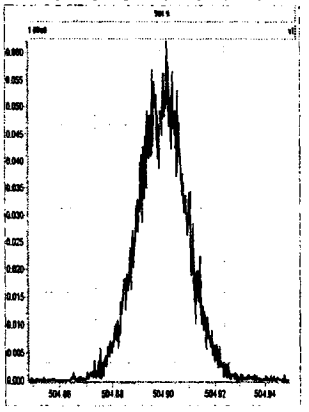
M 480.9696 R 11723



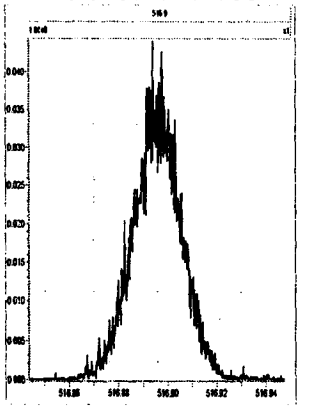
M 492.9696 R 11712

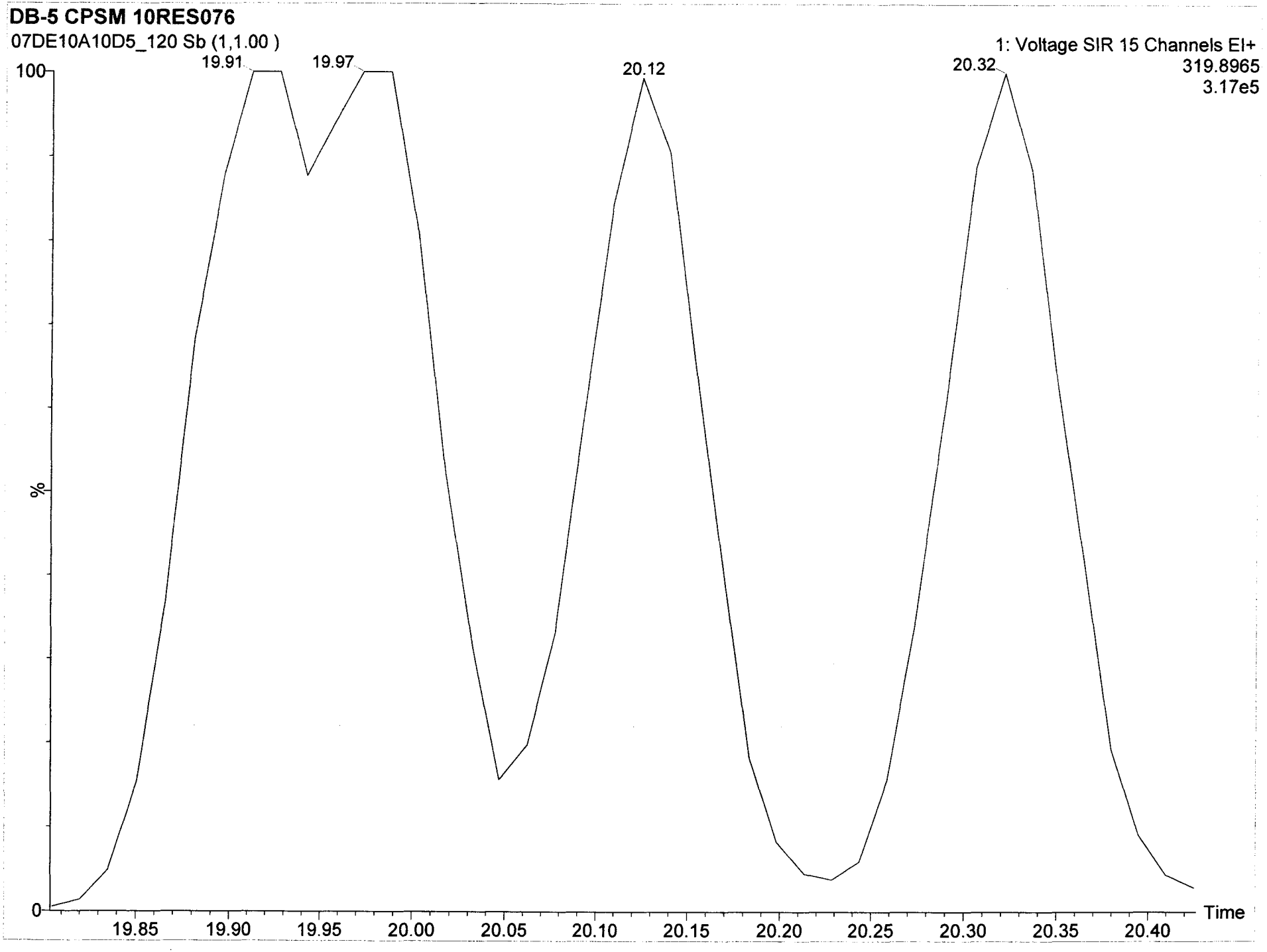


M 504.9696 R 11714



M 516.9697 R 11709




DB-5 CPSM 10RES076
07DE10A10D5_120 Sb (1,1.00)
1: Voltage SIR 15 Channels EI+
319.8965
3.17e5
19.91
19.97
20.12
20.32
100
%
0
Time
19.85
19.90
19.95
20.00
20.05
20.10
20.15
20.20
20.25
20.30
20.35
20.40

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 11:38:56 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.31203	0.02602	1.98292
4	2,3,7,8-TCDF	0.99766	0.05398	5.41067
5	Total TCDFs	0.99766	0.05398	5.41067
6				
7	13C-2,3,7,8-TCDD	0.90938	0.03350	3.68426
8	2,3,7,8-TCDD	1.03464	0.03788	3.66087
9	Total TCDDs	1.03464	0.03788	3.66088
10				
11	37CL-2,3,7,8-TCDD	0.65529	0.04007	6.11558
12				
13	13C-1,2,3,7,8-PeCDF	1.02378	0.03366	3.28821
14	1,2,3,7,8-PeCDF	1.09163	0.07636	6.99532
15	2,3,4,7,8-PeCDF	1.06412	0.07093	6.66572
16	Total F2 PeCDFs	1.07787	0.07357	6.82587
17	Total F1 PeCDFs	1.07787	0.07357	6.82587
18				
19	13C-1,2,3,7,8-PeCDD	0.73445	0.03188	4.34090
20	1,2,3,7,8-PeCDD	0.96030	0.07379	7.68439
21	Total PeCDDs	0.96030	0.07379	7.68439
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	1.04941	0.04078	3.88633
26	1,2,3,4,7,8-HxCDF	1.31260	0.08060	6.14026
27	1,2,3,6,7,8-HxCDF	1.43801	0.08073	5.61377
28	2,3,4,6,7,8-HxCDF	1.35233	0.06680	4.93996
29	1,2,3,7,8,9-HxCDF	1.19752	0.07420	6.19643
30	Total HxCDFs	1.32511	0.07456	5.62649
31				
32	13C-1,2,3,6,7,8-HxCDD	0.90452	0.04739	5.23895
33	1,2,3,4,7,8-HxCDD	0.98150	0.11886	12.11042
34	1,2,3,6,7,8-HxCDD	1.09425	0.09074	8.29235
35	1,2,3,7,8,9-HxCDD	1.05784	0.11025	10.42210
36	Total HxCDDs	1.04453	0.10589	10.13757
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.95391	0.04593	4.81530
39	1,2,3,4,6,7,8-HpCDF	1.46280	0.08159	5.57799
40	1,2,3,4,7,8,9-HpCDF	1.23081	0.07706	6.26095
41	Total HpCDFs	1.34680	0.07868	5.84221
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.84836	0.04441	5.23520
44	1,2,3,4,6,7,8-HpCDD	1.05453	0.09764	9.25898
45	Total HpCDDs	1.05453	0.09764	9.25898
46				
47	13C-OCDD	0.67464	0.02285	3.38633

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:38:35 Pacific Standard Time
Printed: Monday, December 13, 2010 11:38:56 Pacific Standard Time

48	OCDF	1.48610	0.14046	9.45134
49	OCDD	1.14618	0.09332	8.14138
50				
51				
52	Function 1 PFK			
53	Function 2 PFK			
54	Function 3 PFK			
55	Function 4 PFK			
56	Function 5 PFK			
57	TCDF PCDPE			
58	F1 PeCDF PCDPE			
59	F2 PeCDF PCDPE			
60	HXCDF PCDPE			
61	HPCDF PCDPE			
62	OCDF PCDPE			

Quantify Sample Report **MassLynx 4.1**

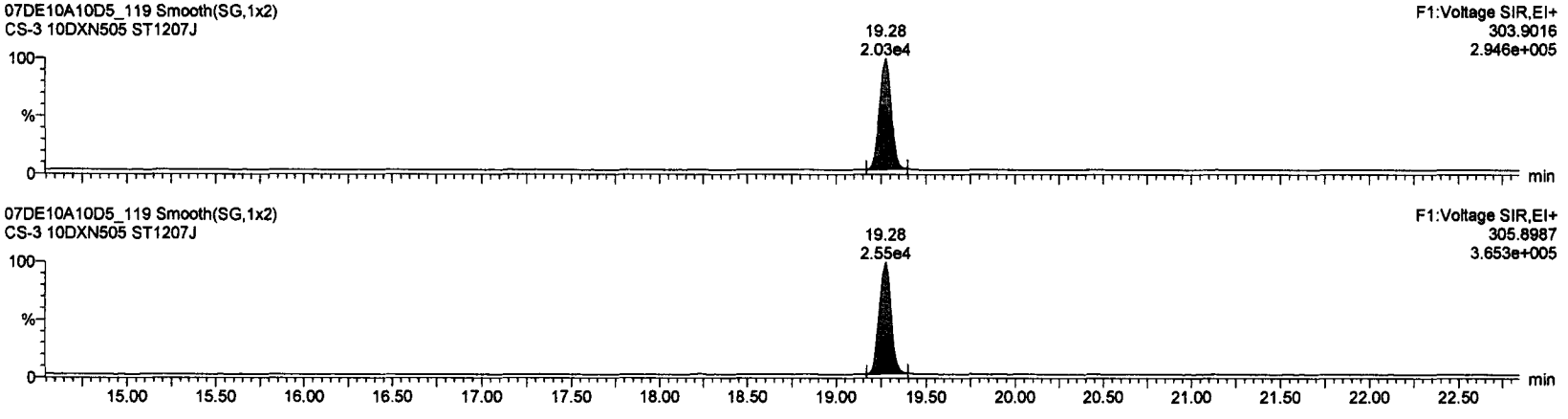
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

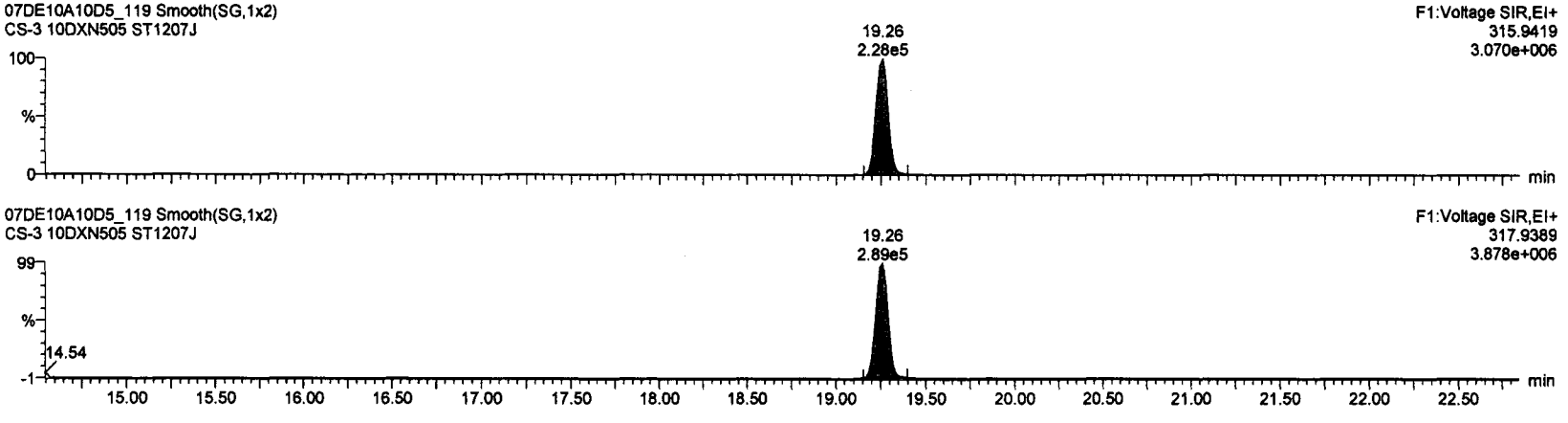
Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D58290.cdb 30 Sep 2010 09:13:51

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

TCDFs



13C-TCDF



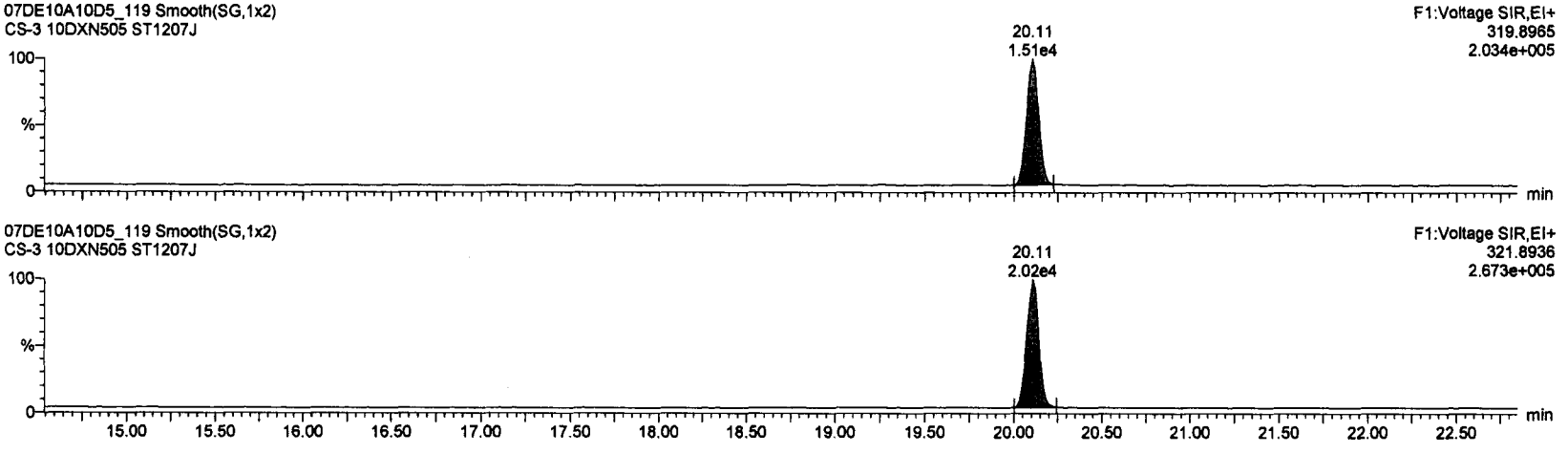
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

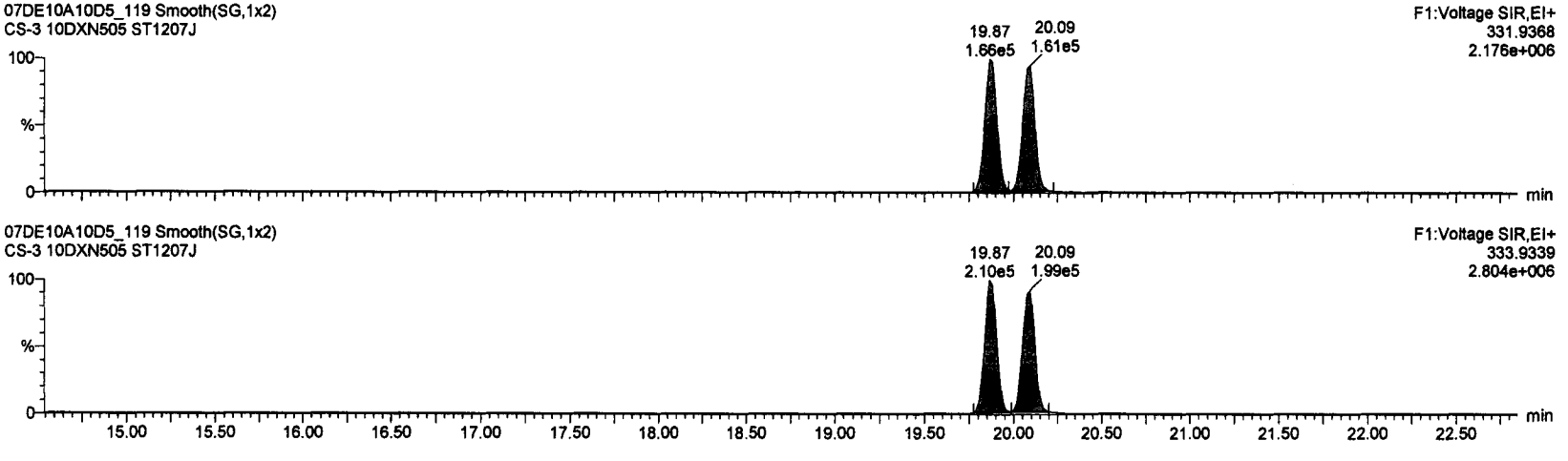
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

TCDDs



13C-TCDDs



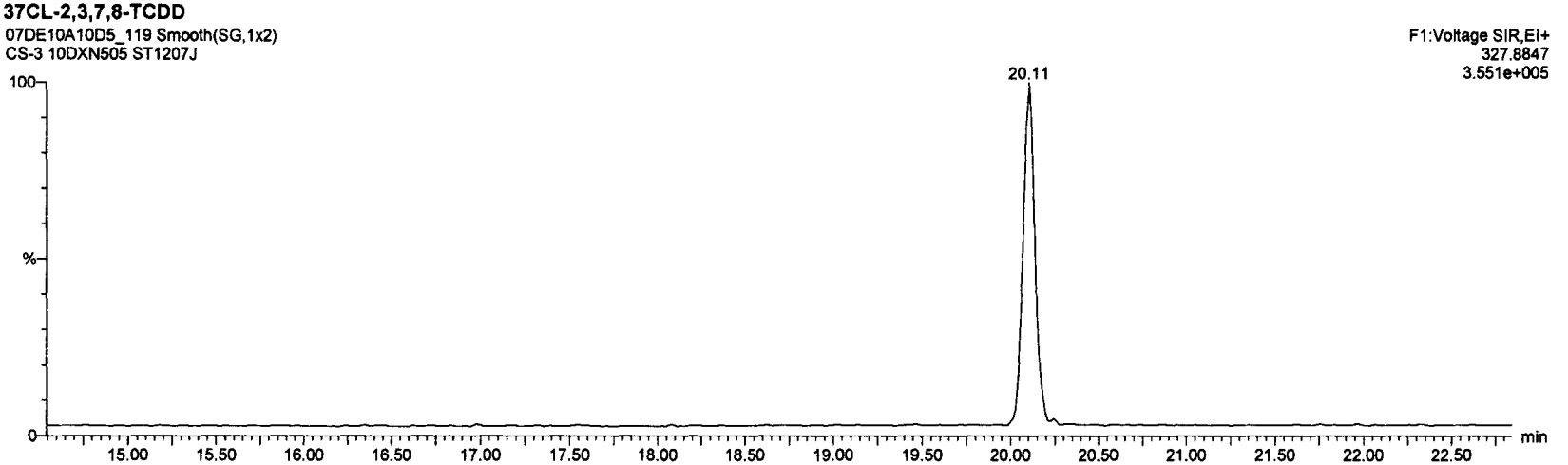
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

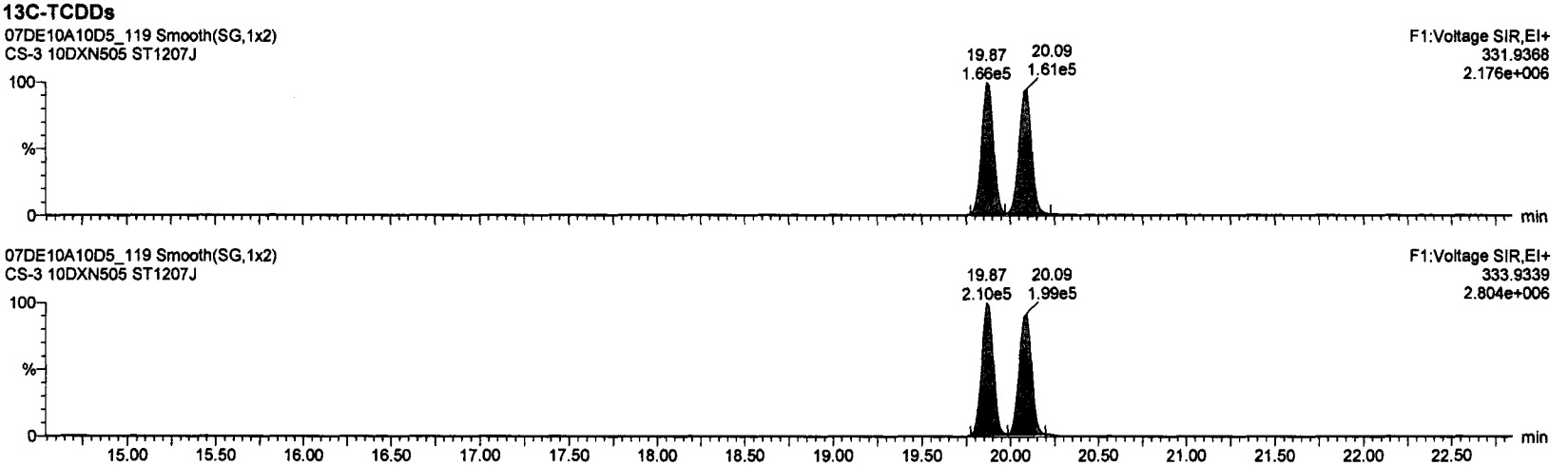
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

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



13C-TCDDs



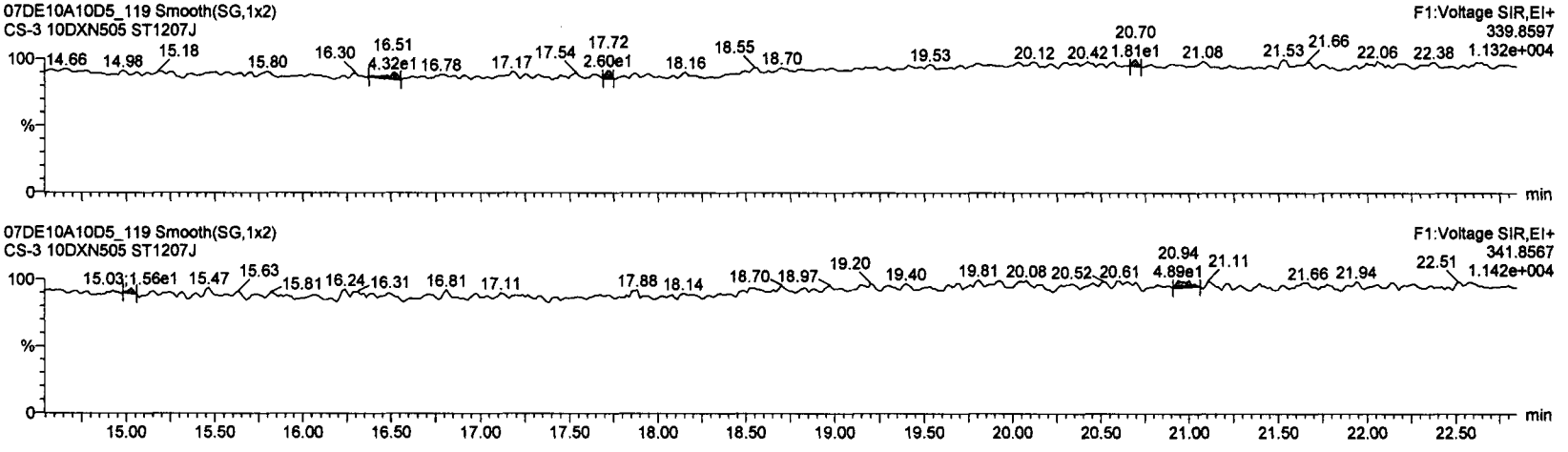
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

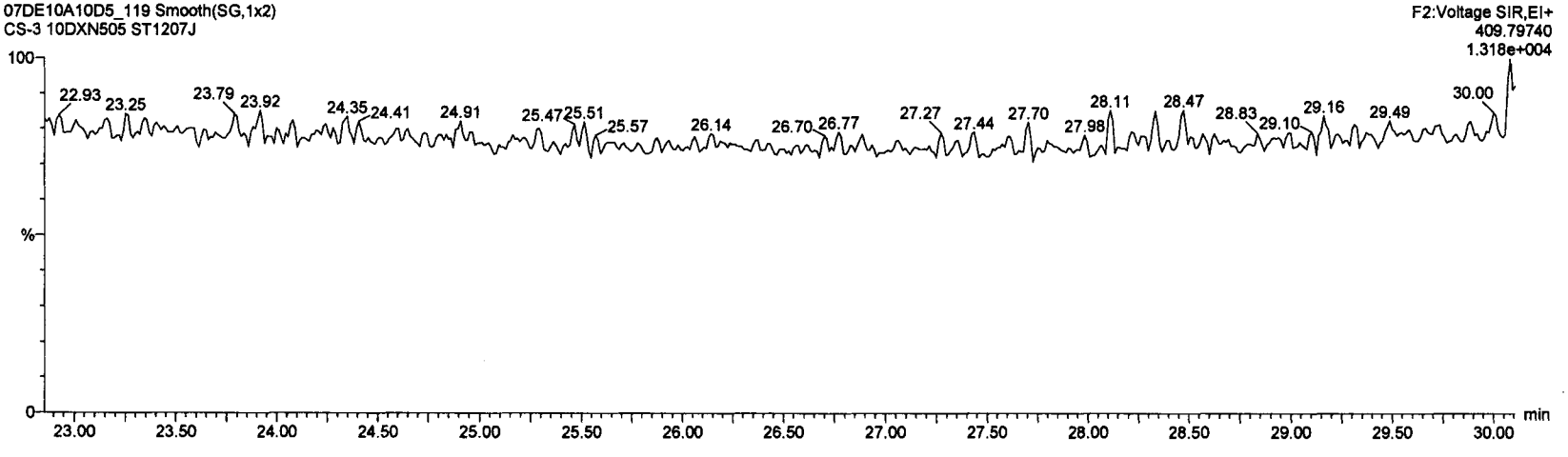
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

F1 PeCDFs



F1 PeCDF PCDPE



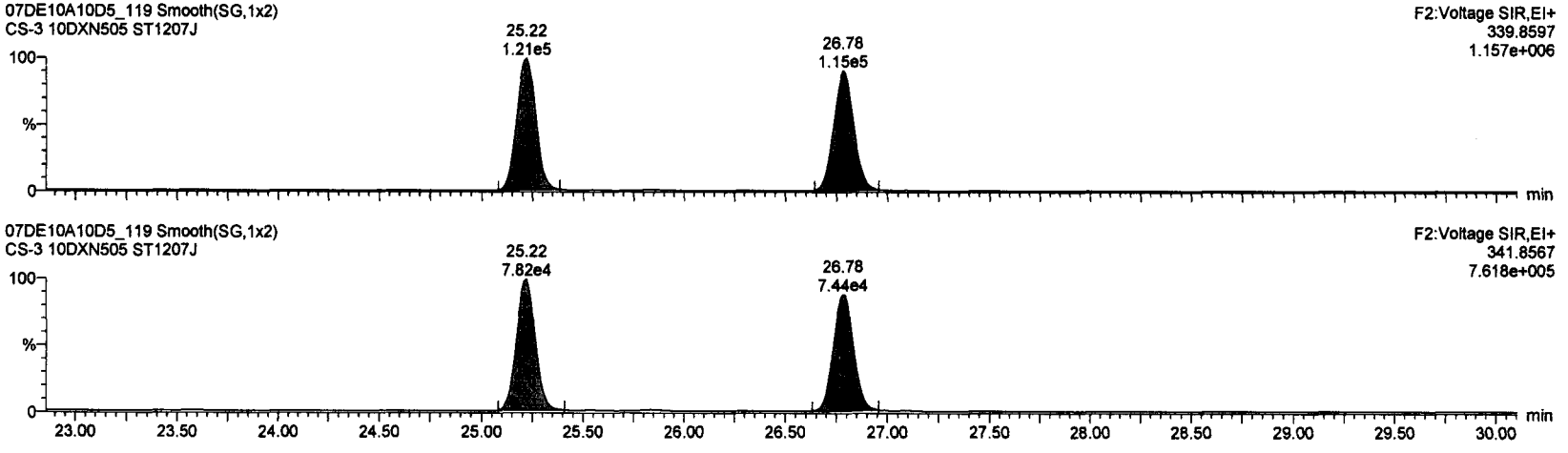
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

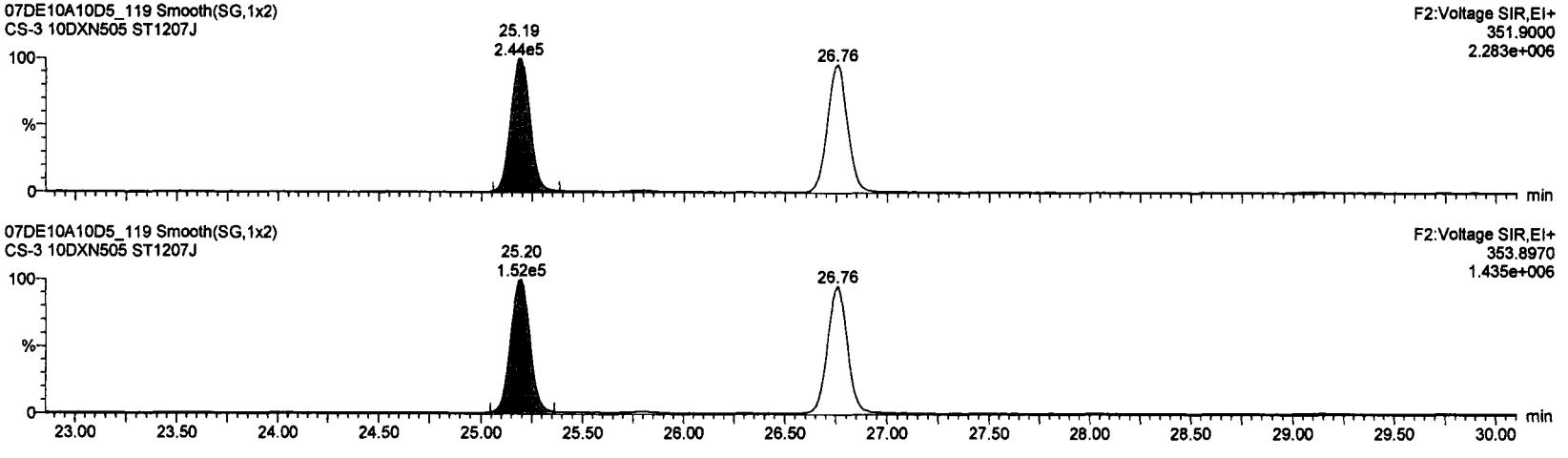
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

PeCDFs



13C-PeCDFs



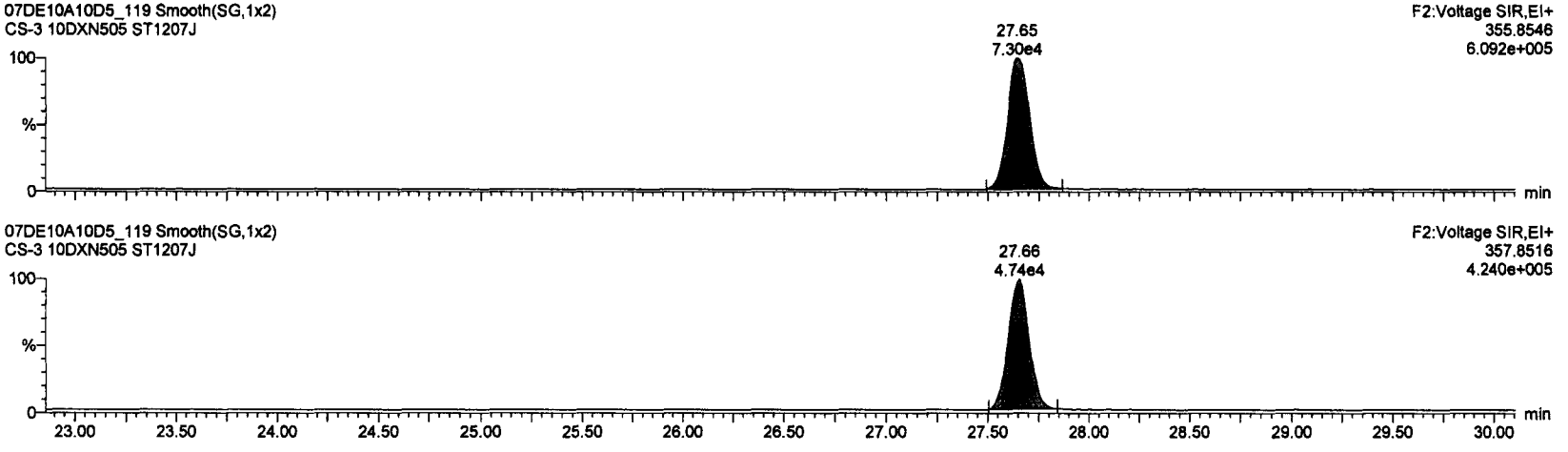
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

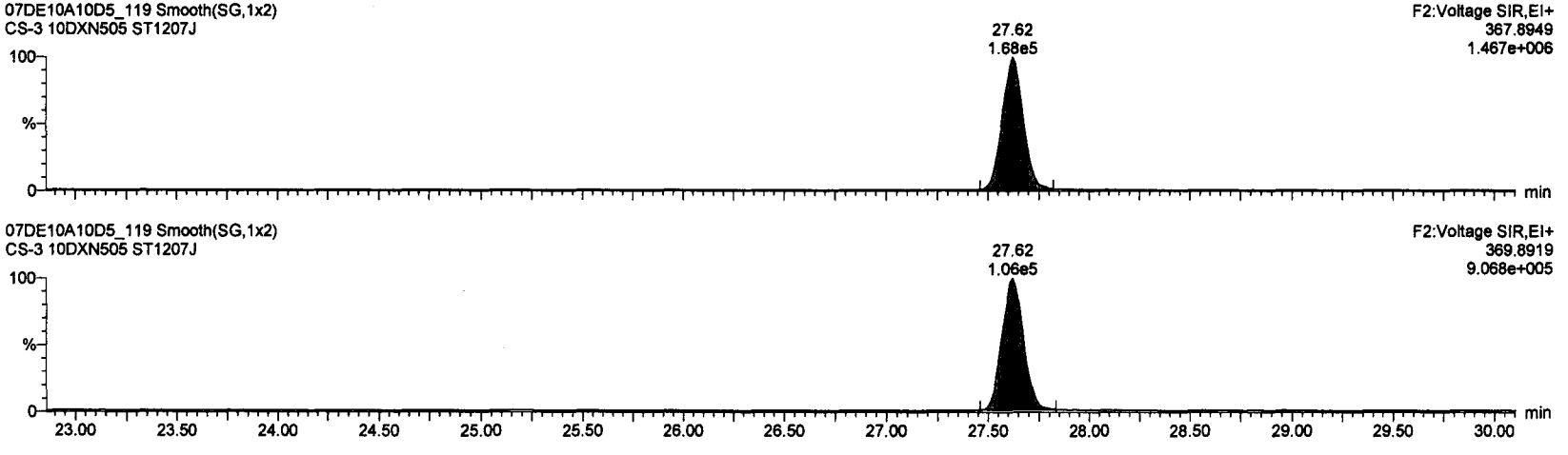
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

PeCDDs



13C-PeCDD



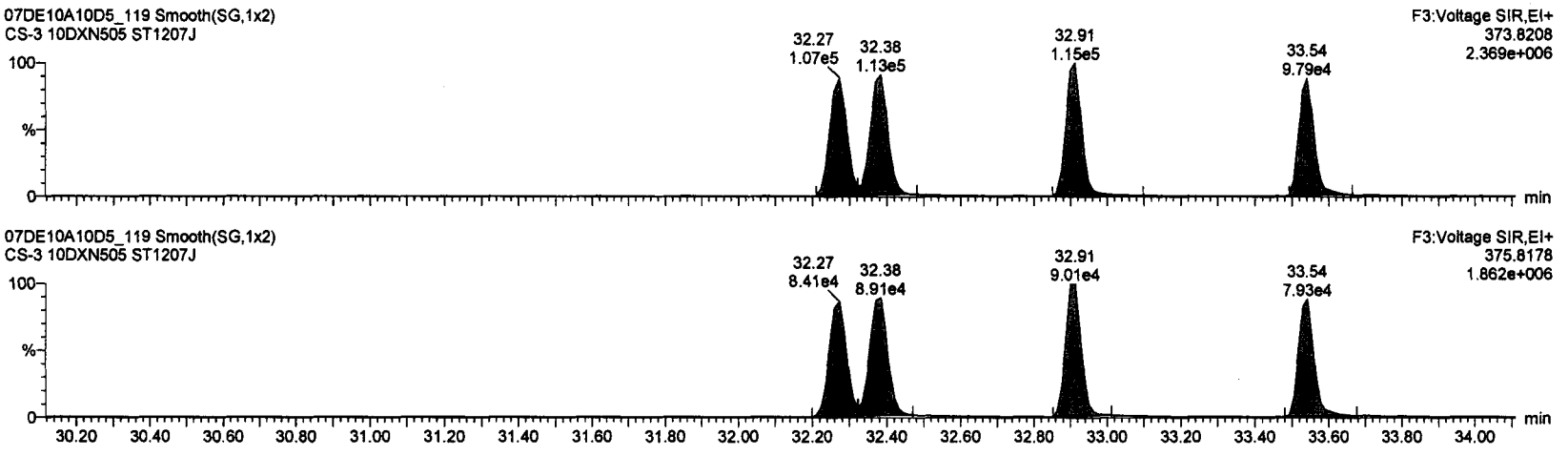
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

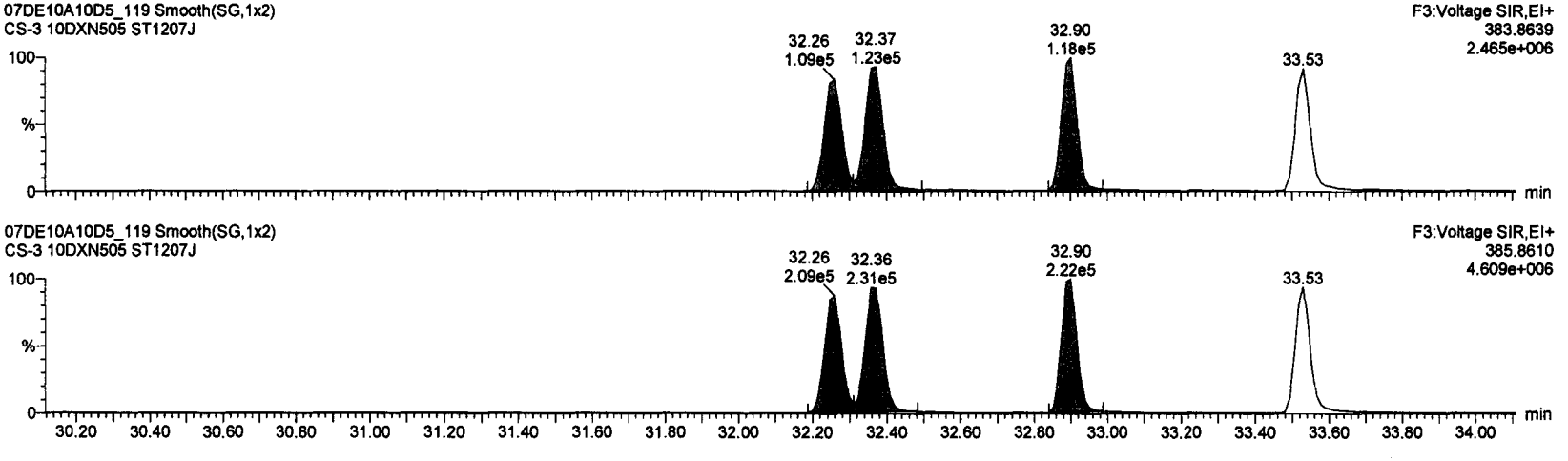
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

HxCDFs



13C-HxCDFs



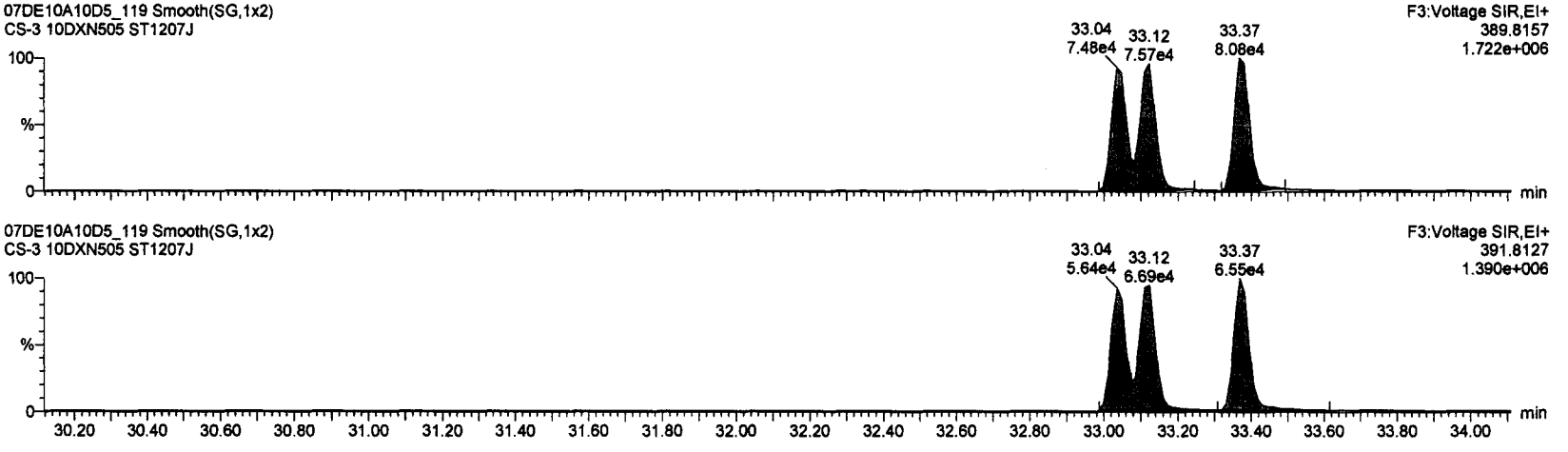
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

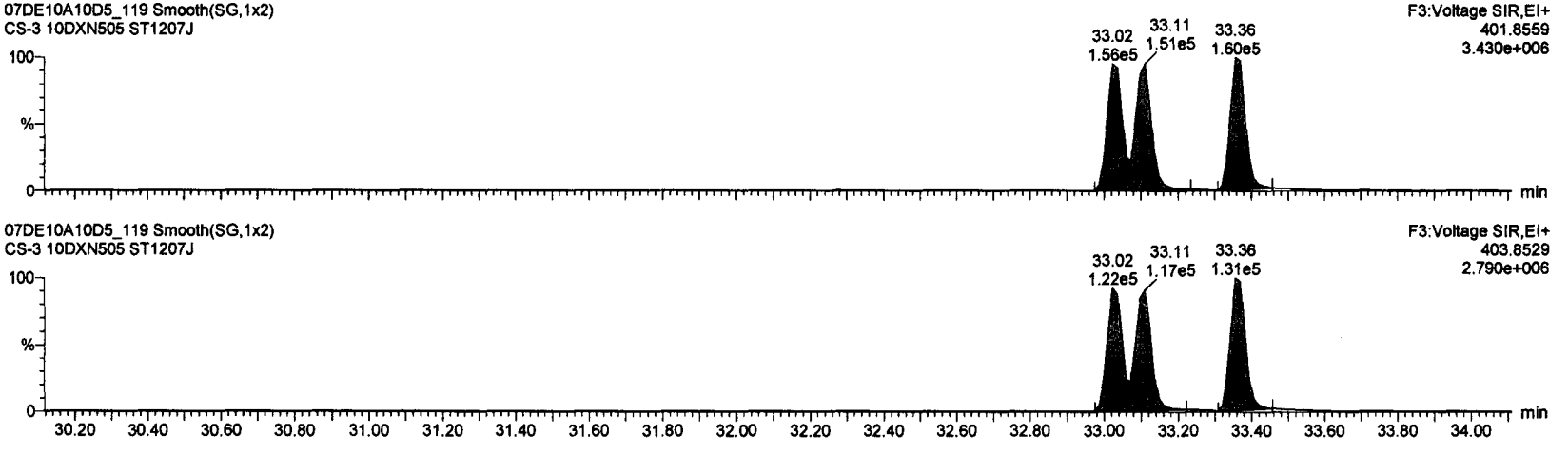
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

HxCDDs



13C-1,2,3,6,7,8-HxCDD



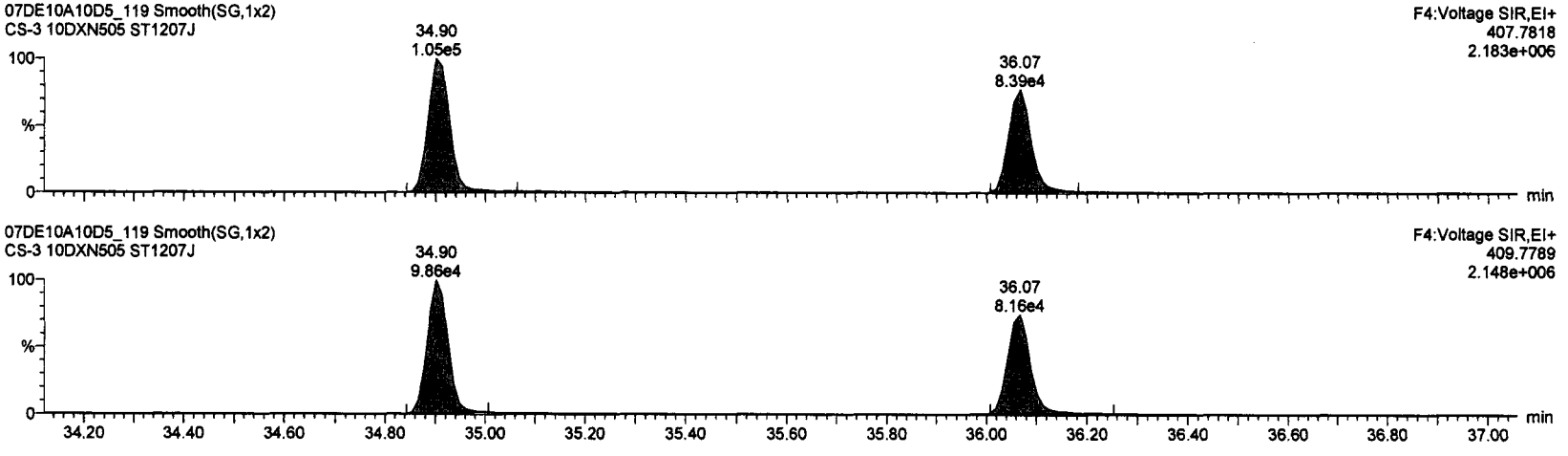
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

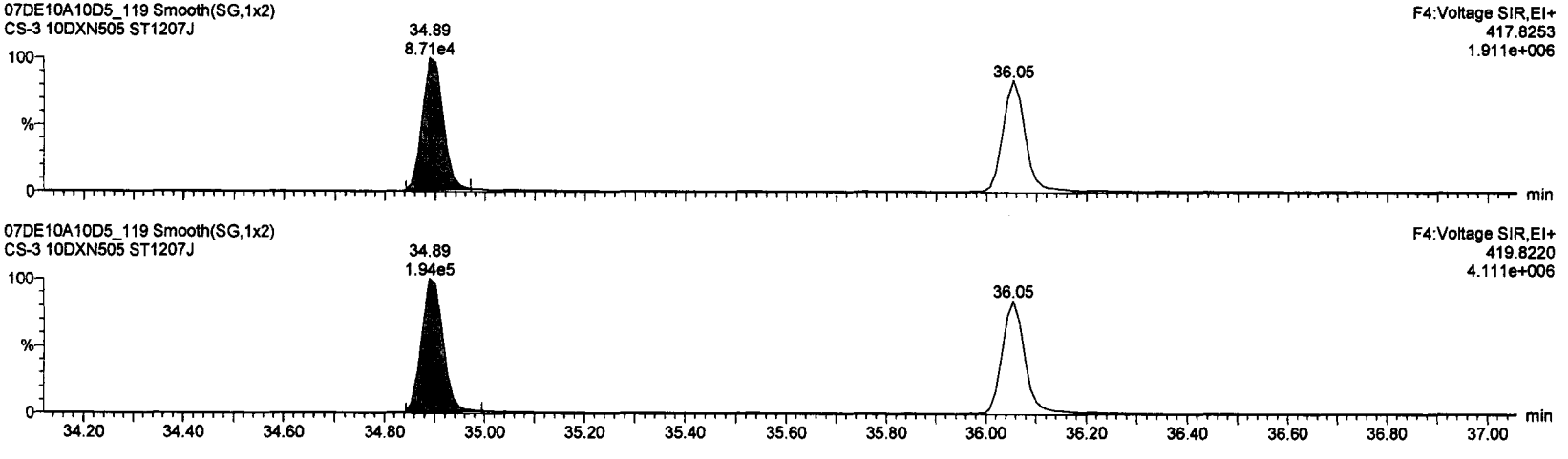
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

HpCDFs



13C-HpCDFs



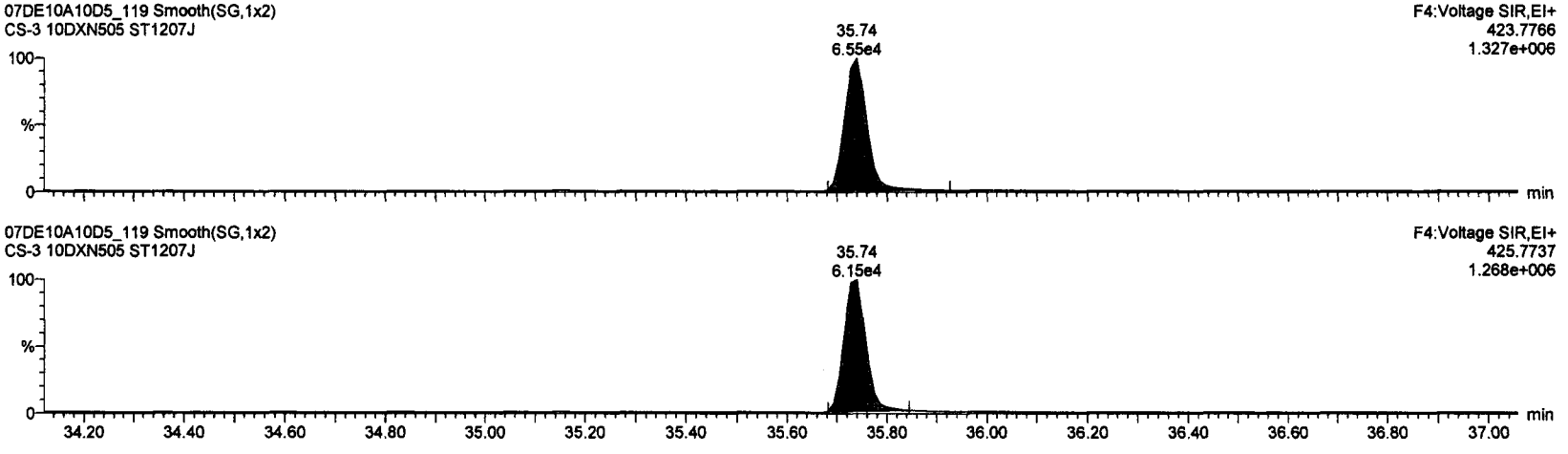
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

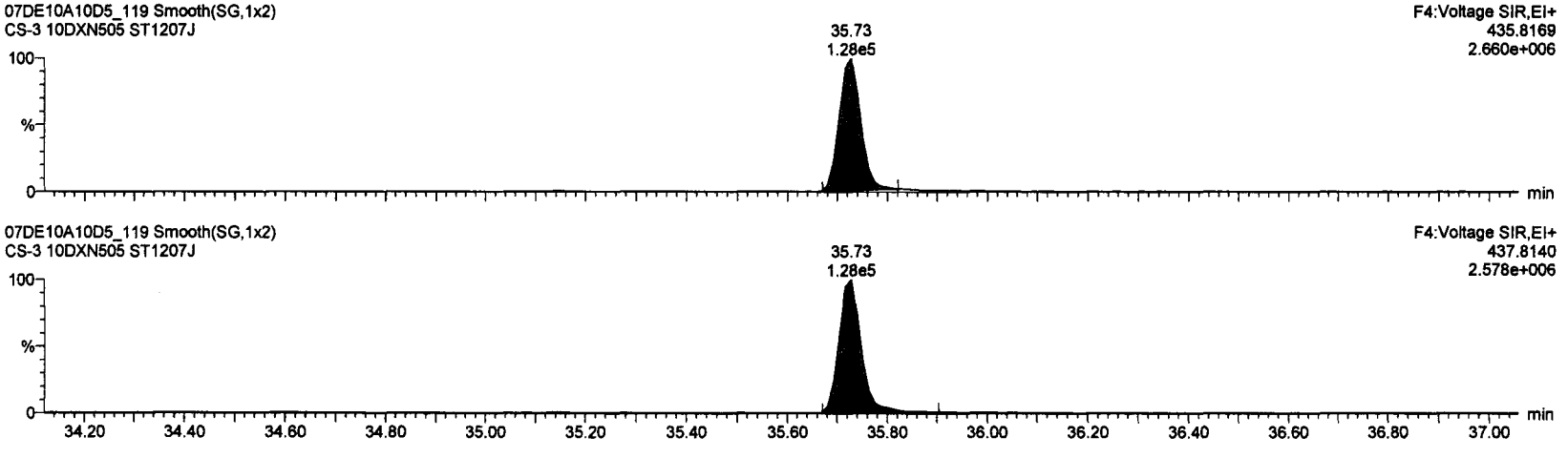
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



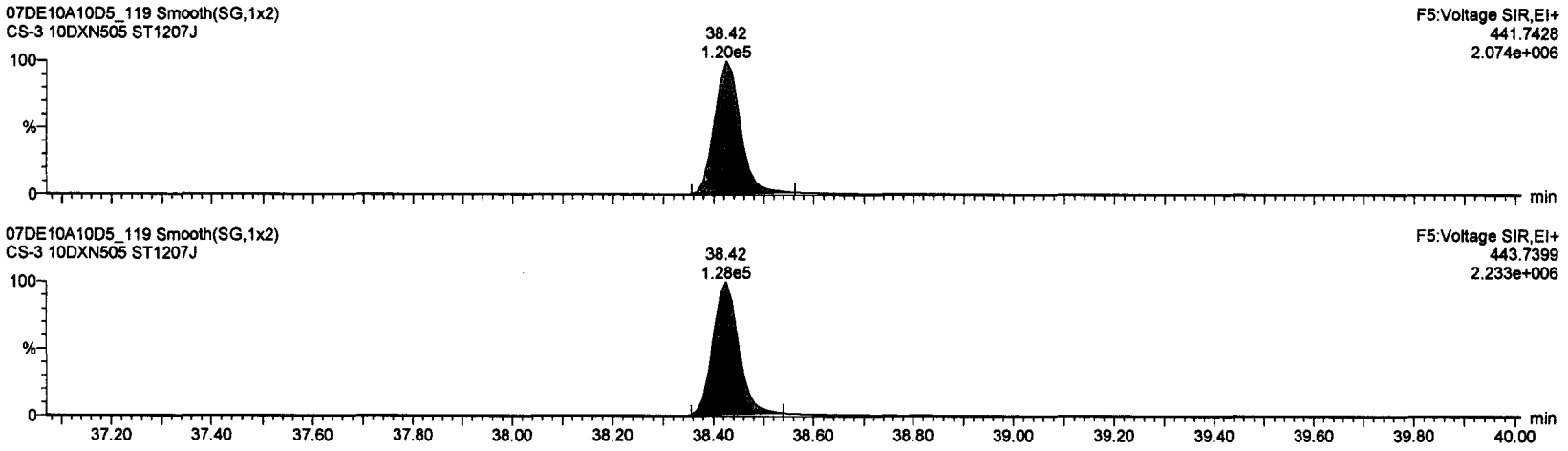
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

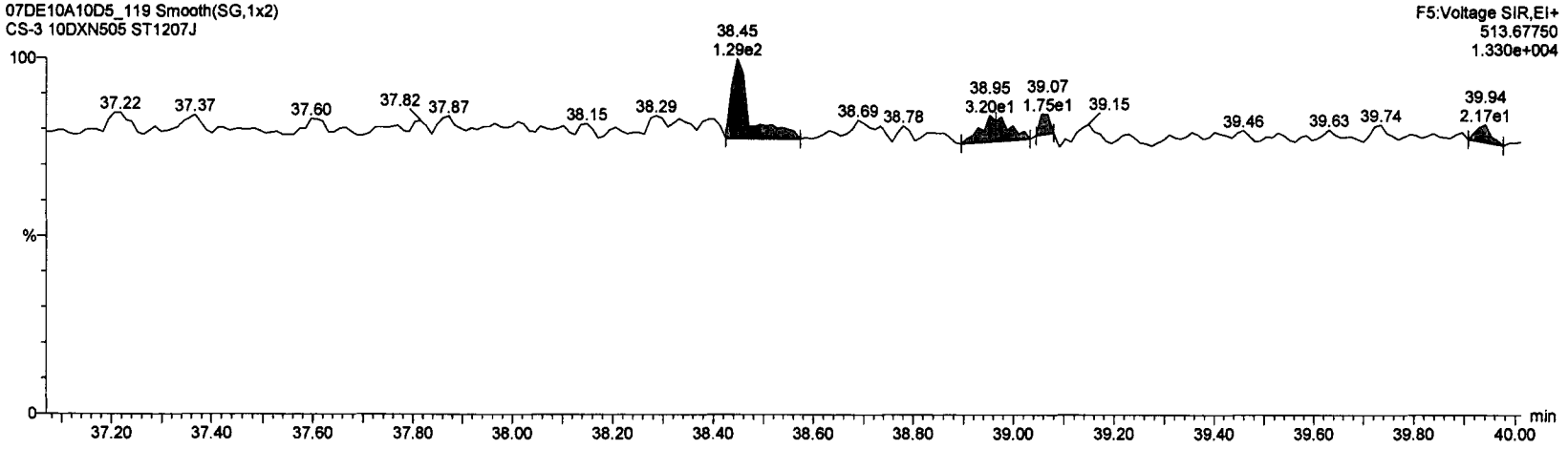
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

OCDFs



OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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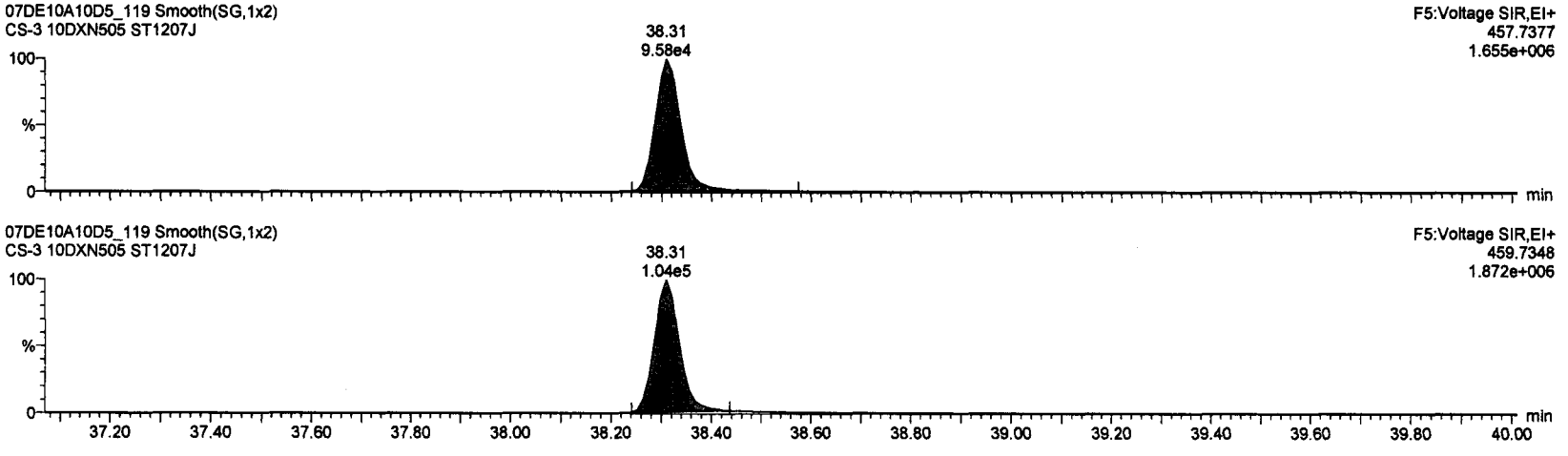
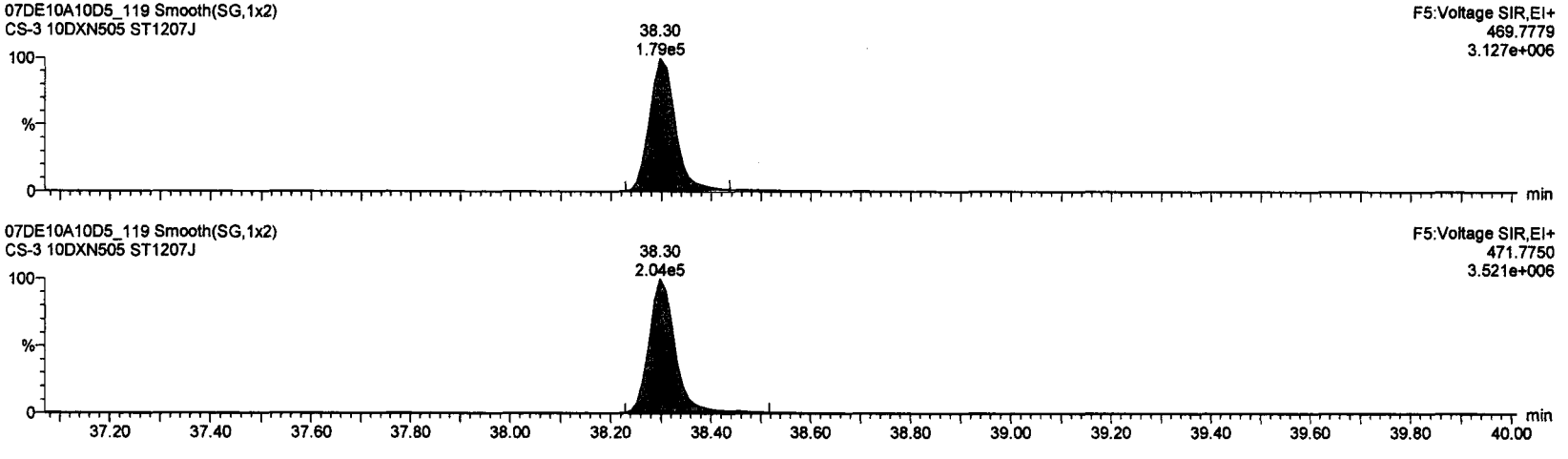
Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

OCDD



13C-OCDD



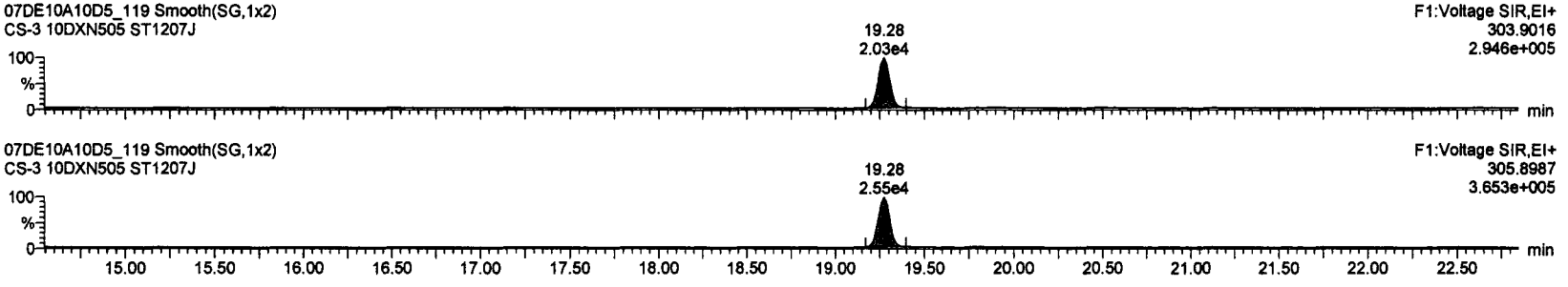
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

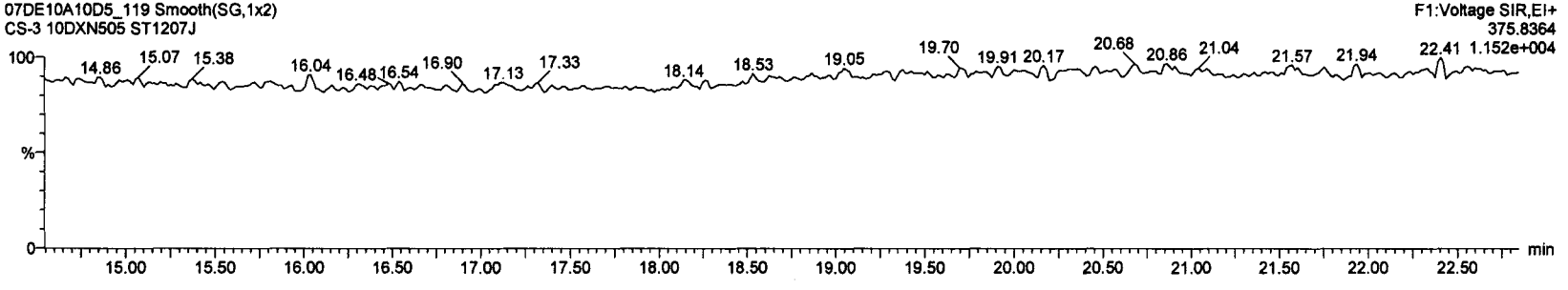
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

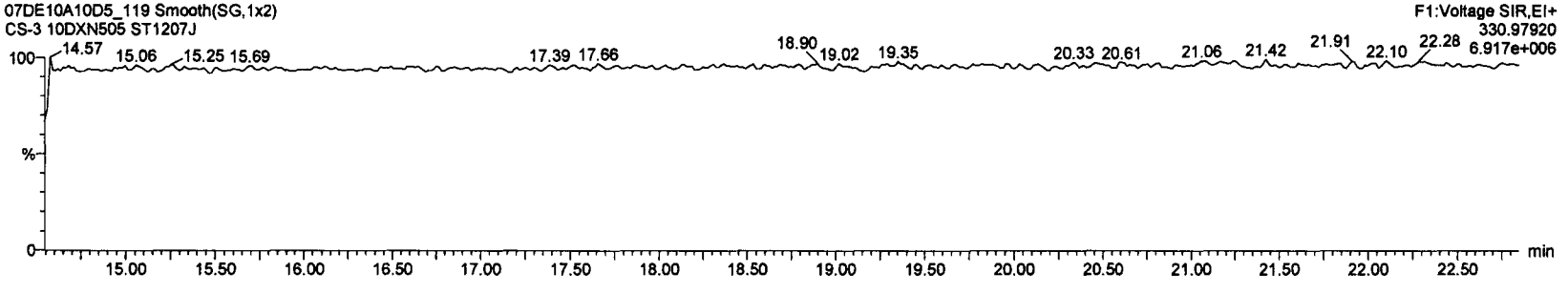
TCDFs



TCDF PCDPE



Function 1 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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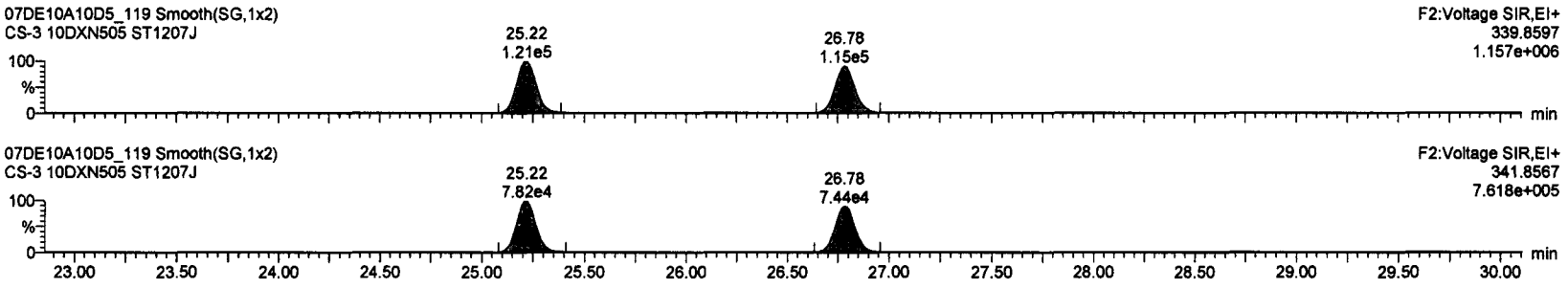
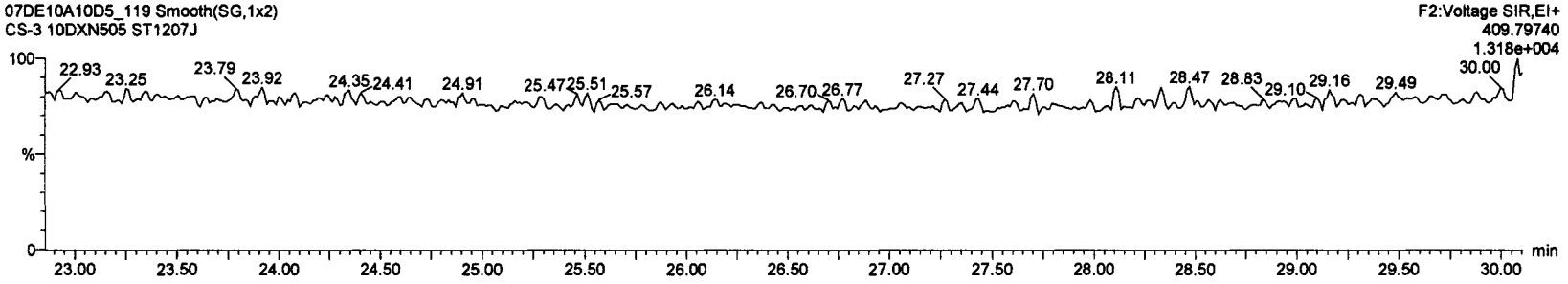
Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

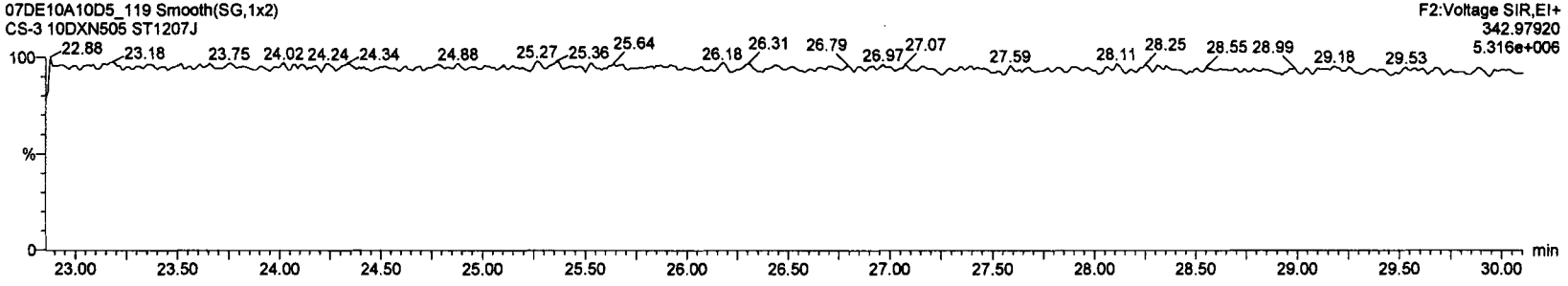
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



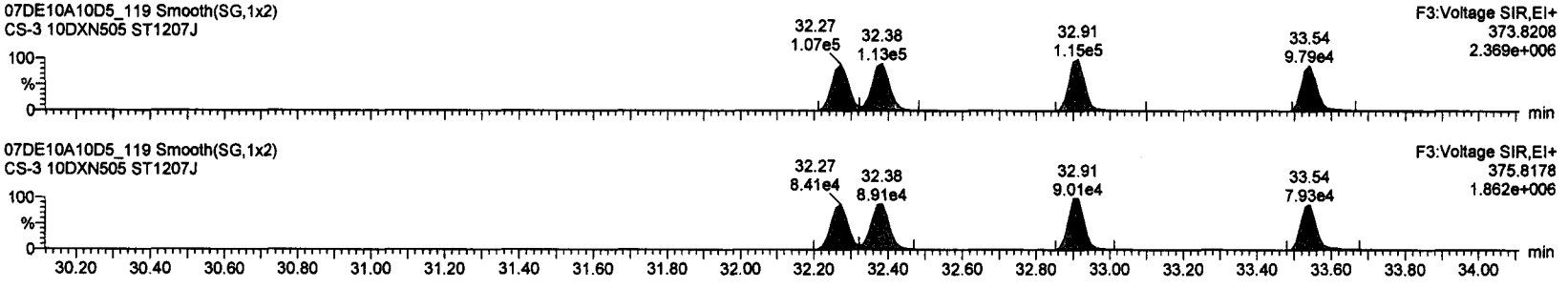
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

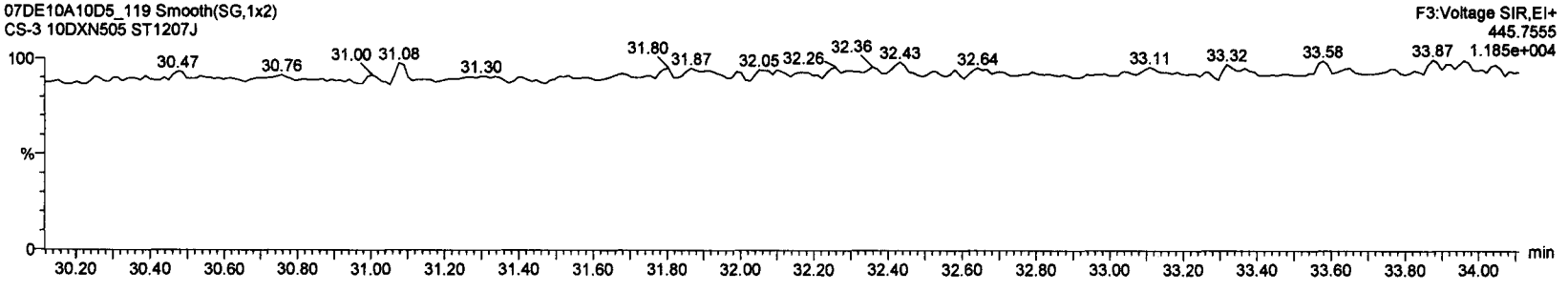
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

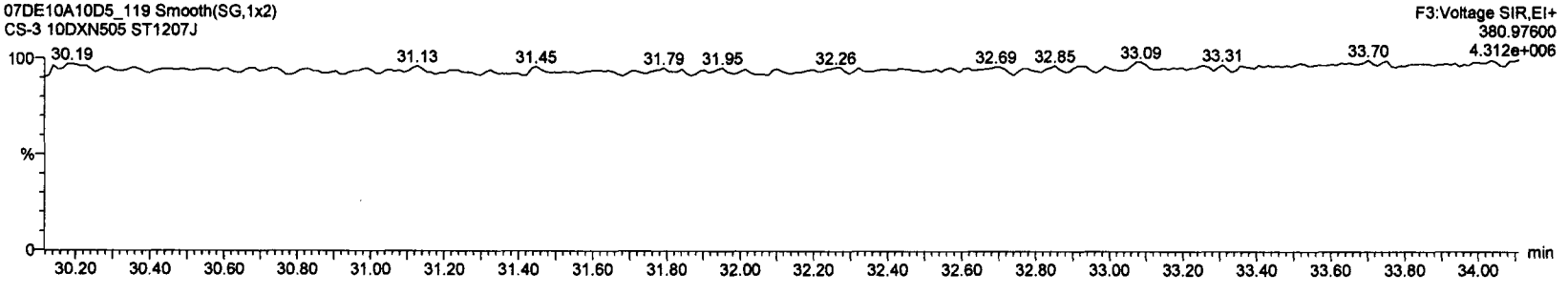
HxCDFs



HxCDF PCDPE



Function 3 PFK



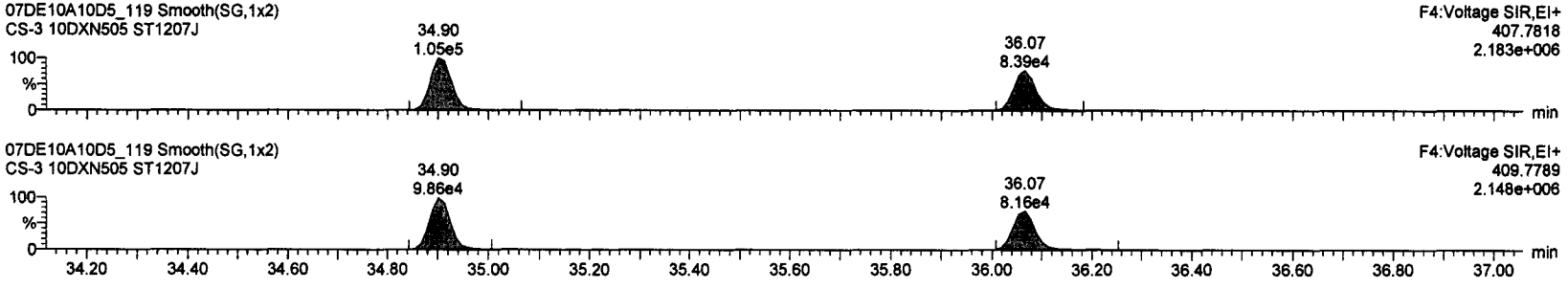
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

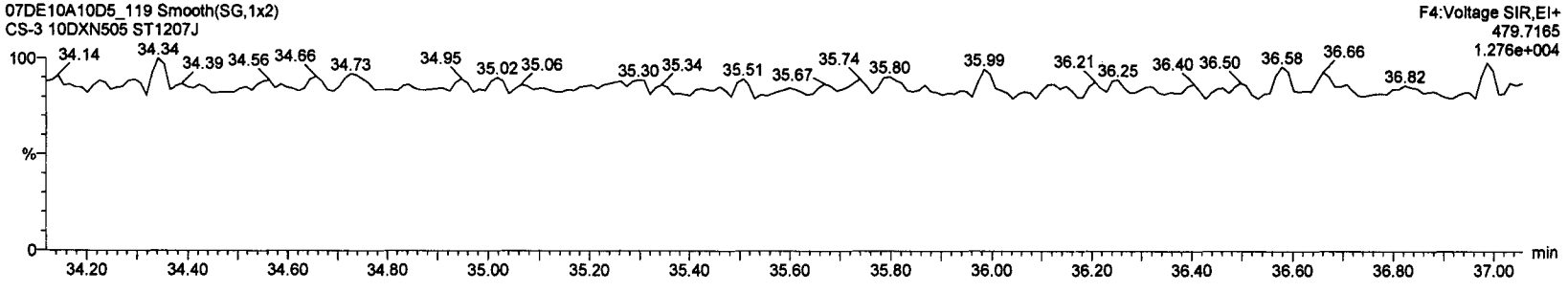
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

HpCDFs



HpCDF PCDPE



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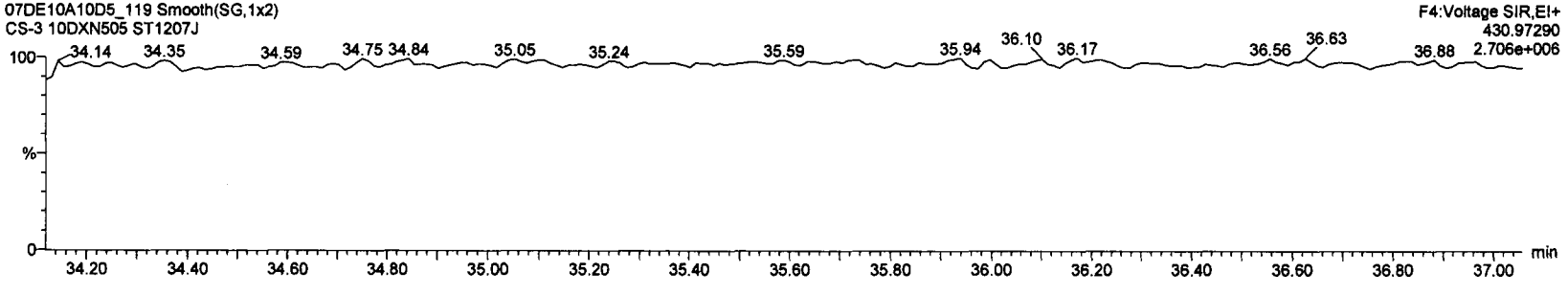


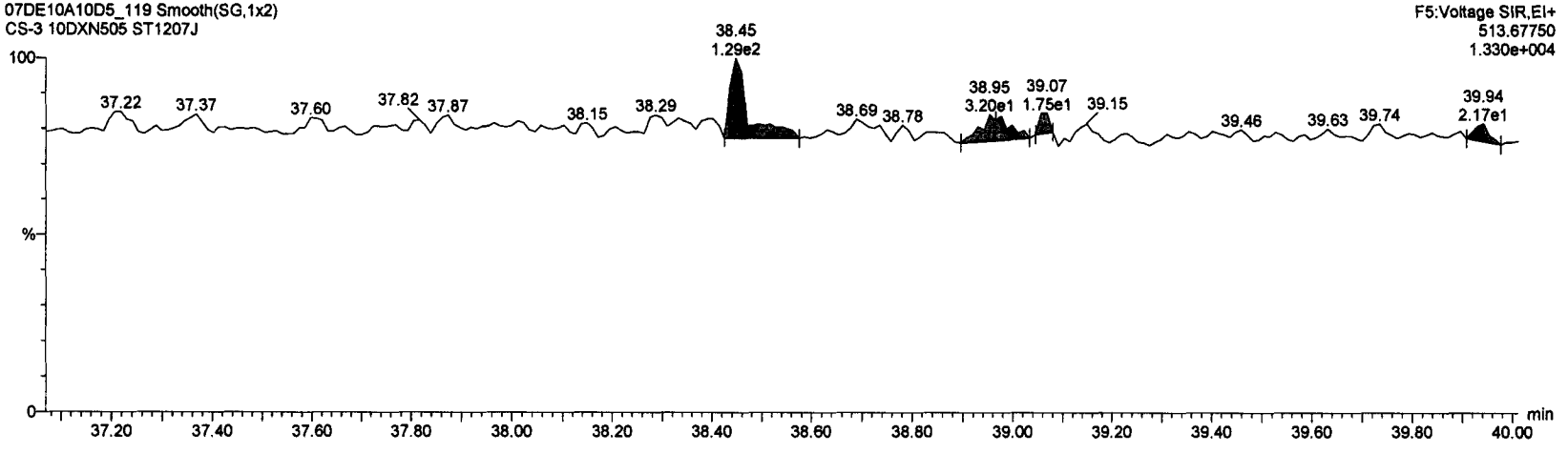
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

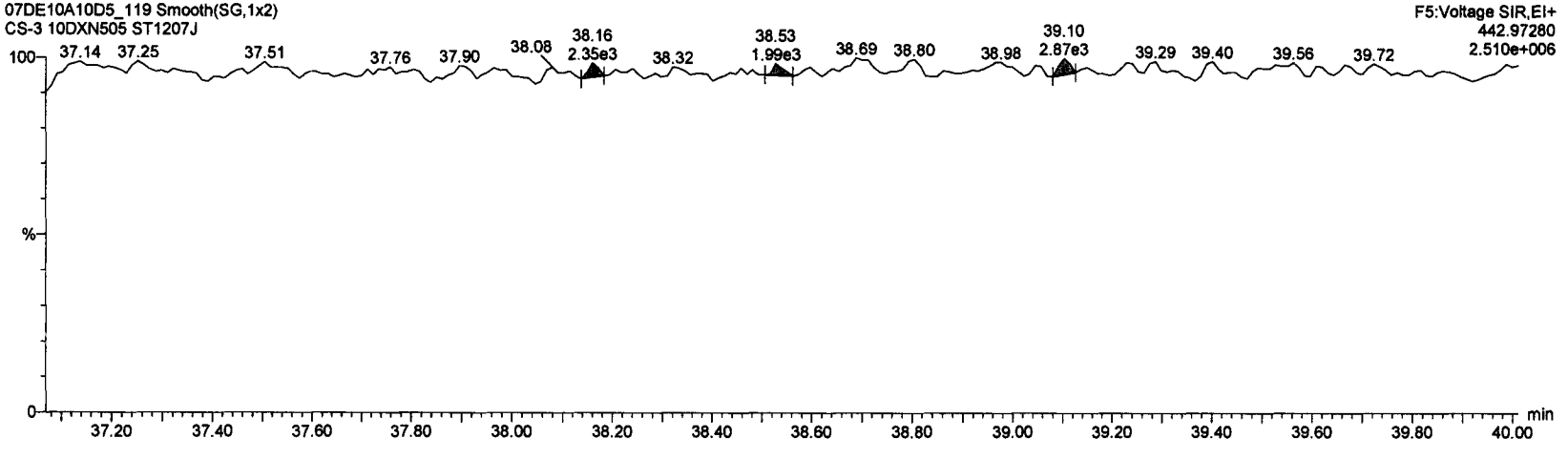
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_119, Date: 11-Dec-2010, Time: 10:33:28, ID: ST1207J, Description: CS-3 10DXN505

OCDF PCDPE



Function 5 PFK



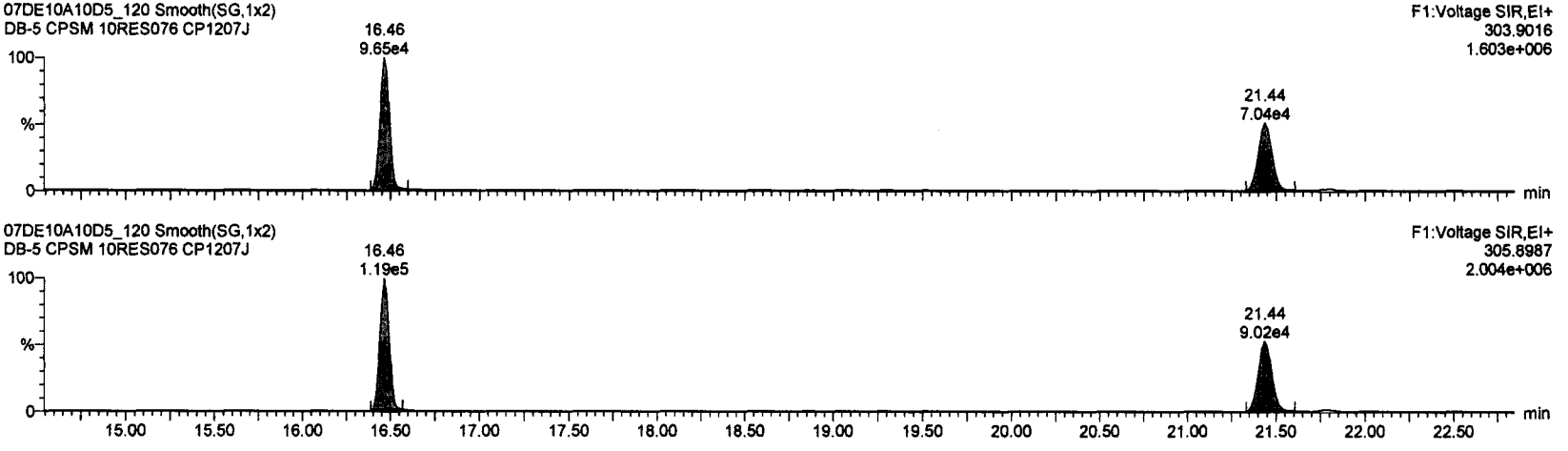
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

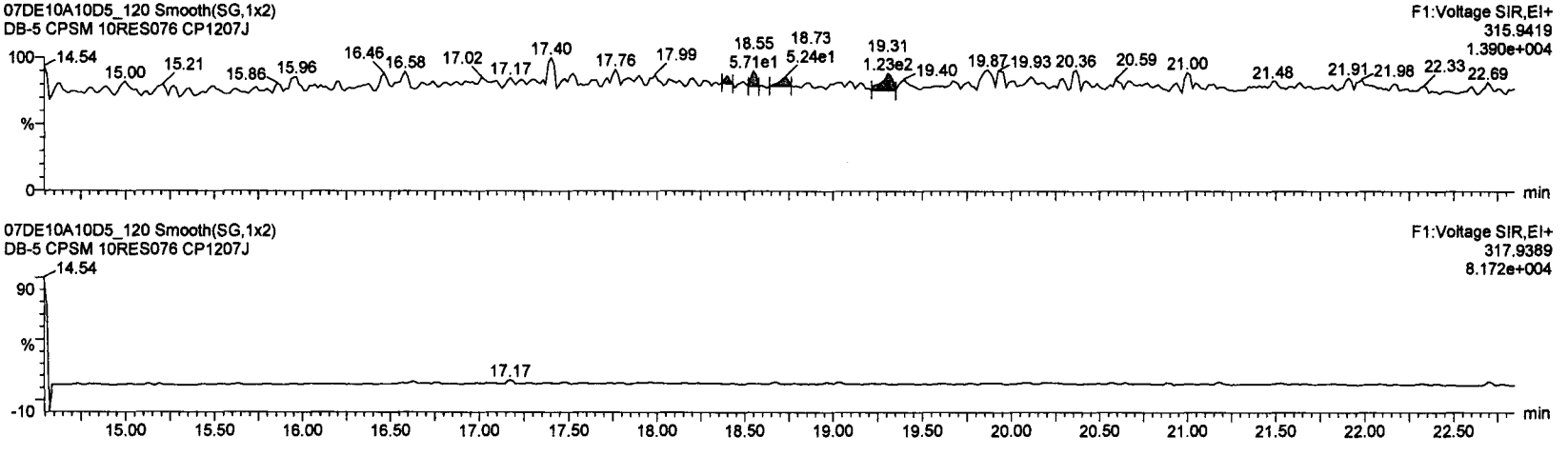
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

TCDFs



13C-TCDF



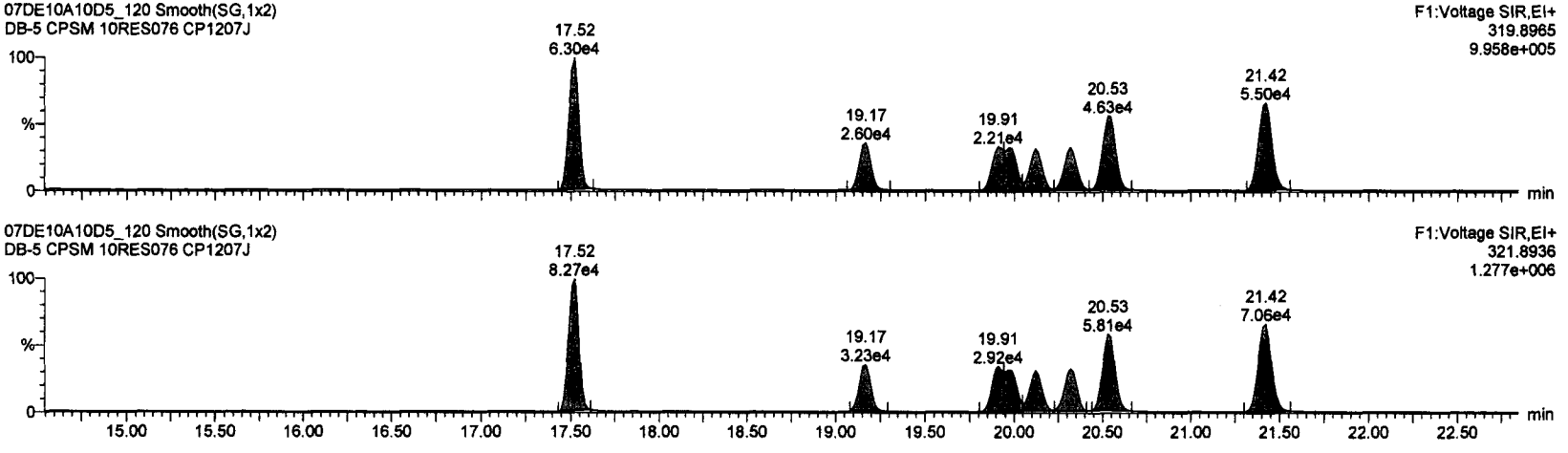
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

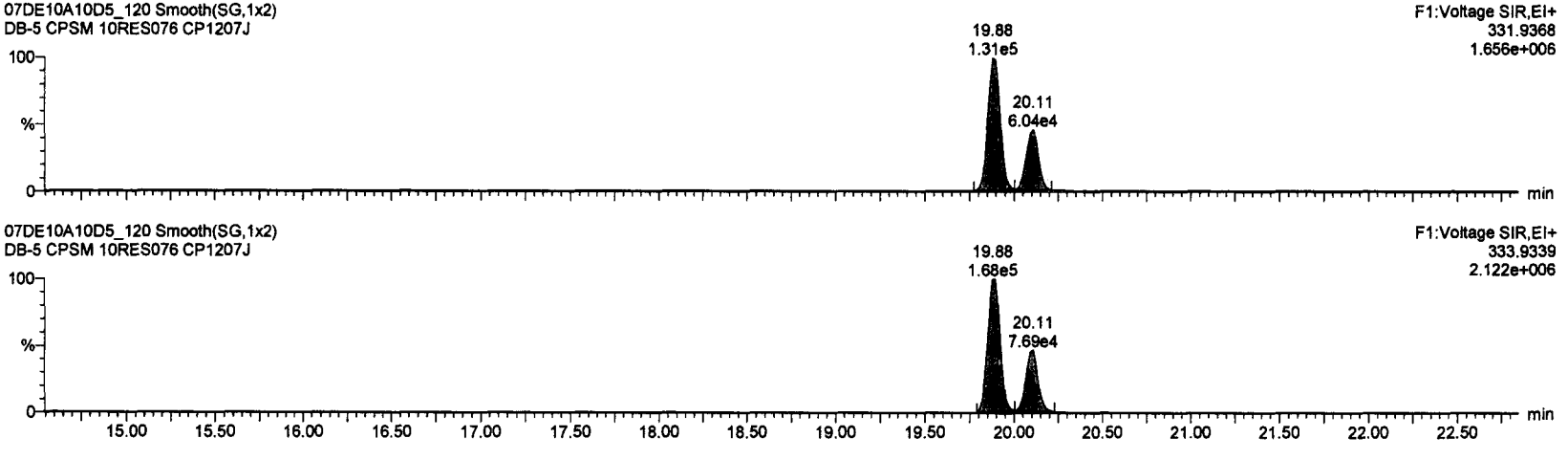
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

TCDDs



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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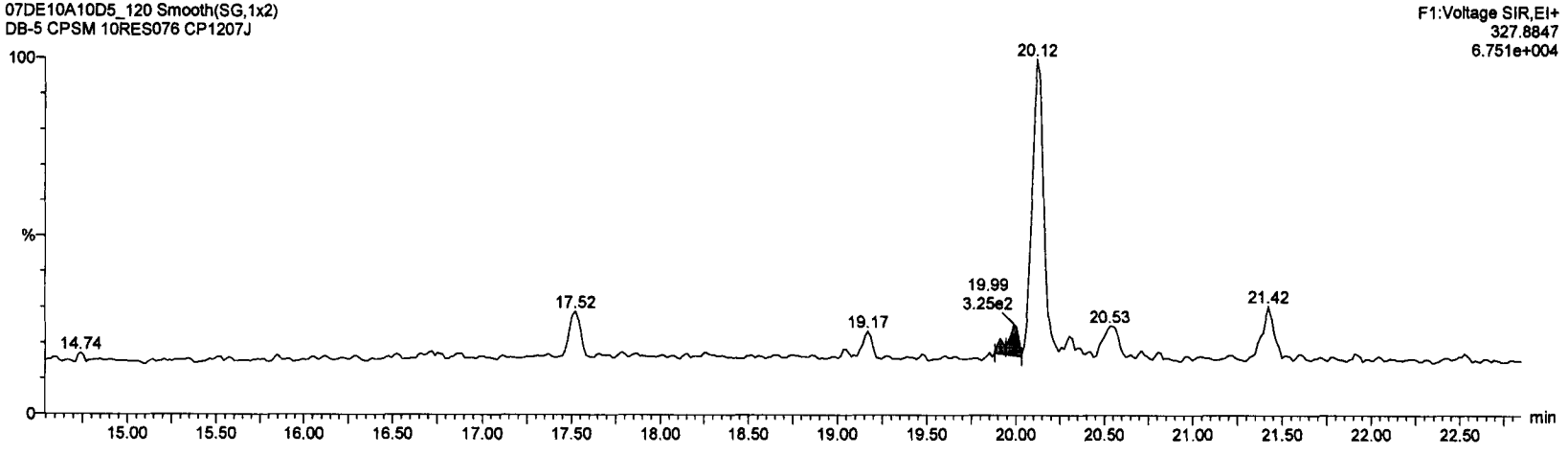
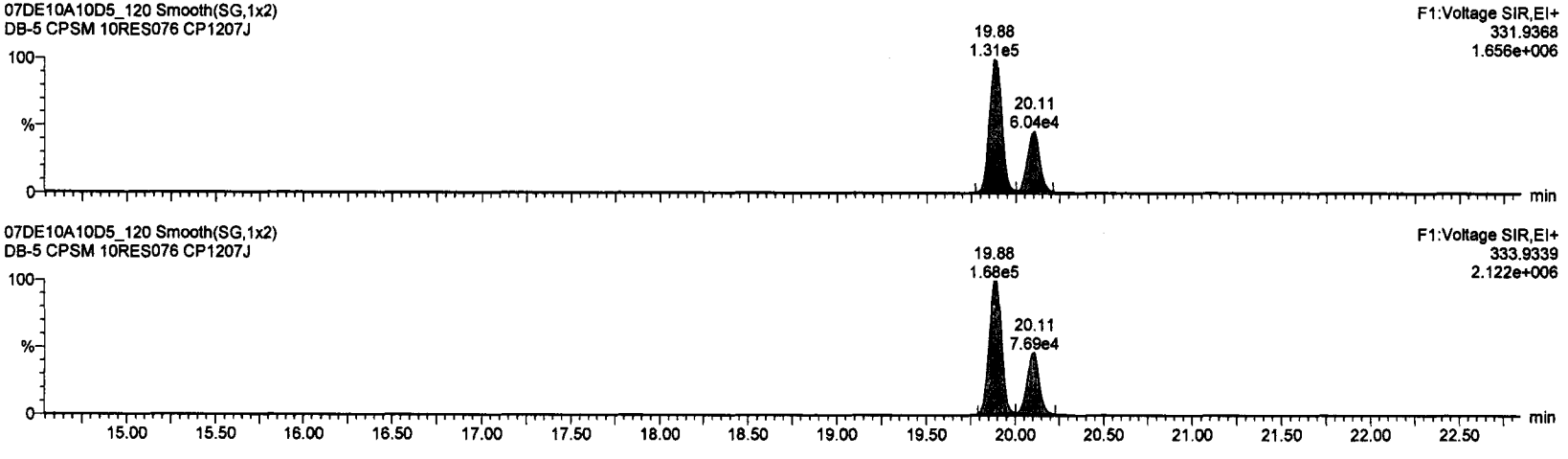
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

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



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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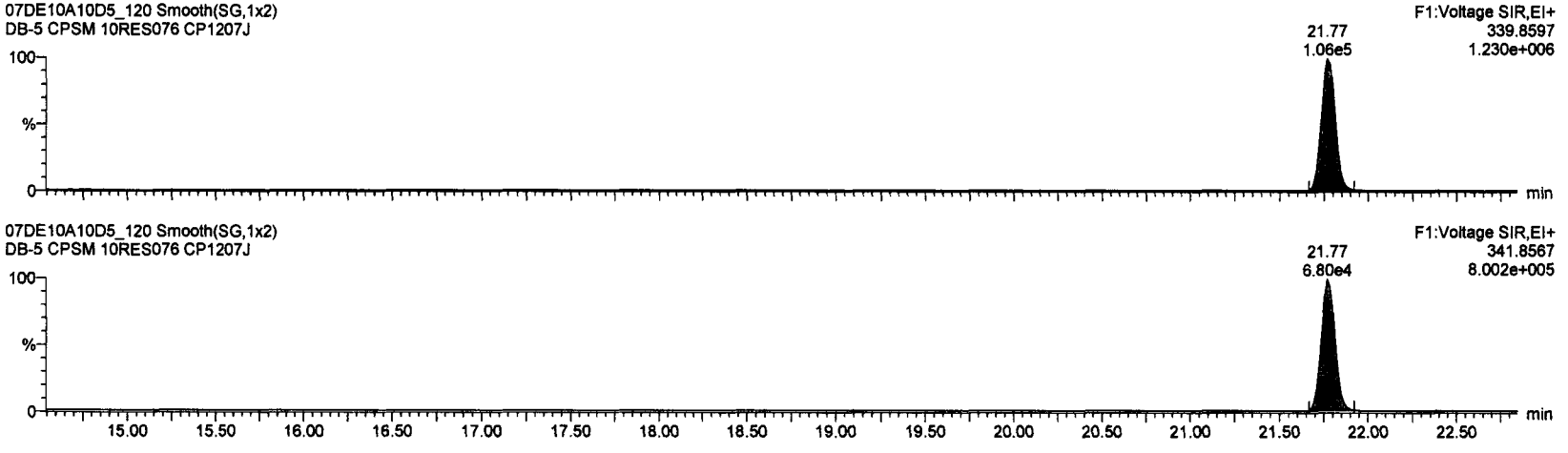
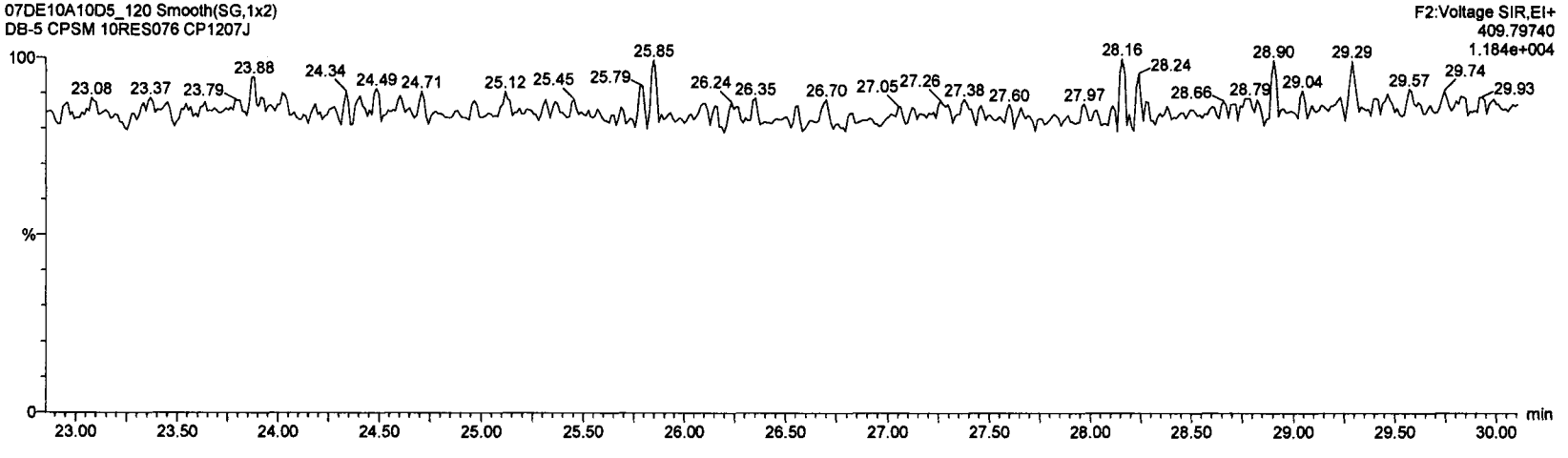
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

F1 PeCDFs



F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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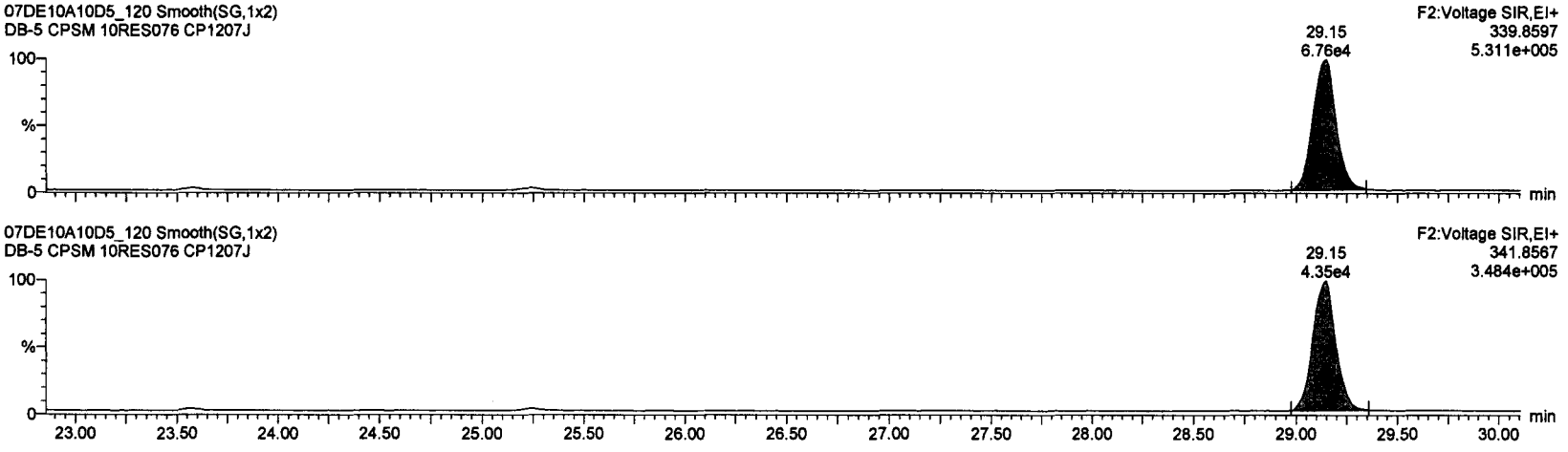
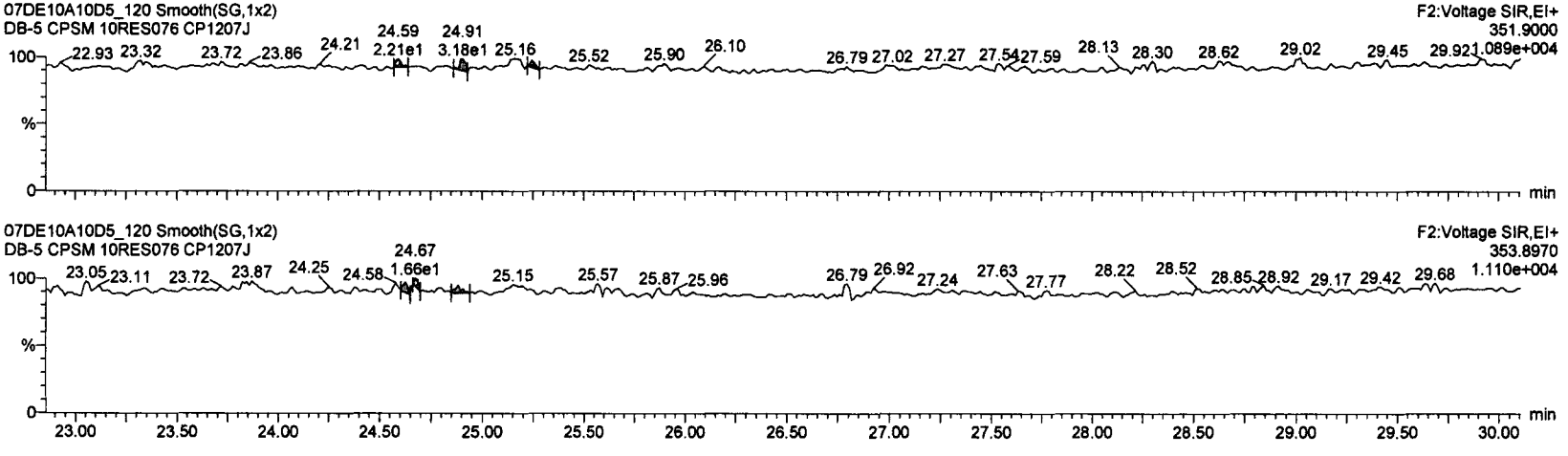
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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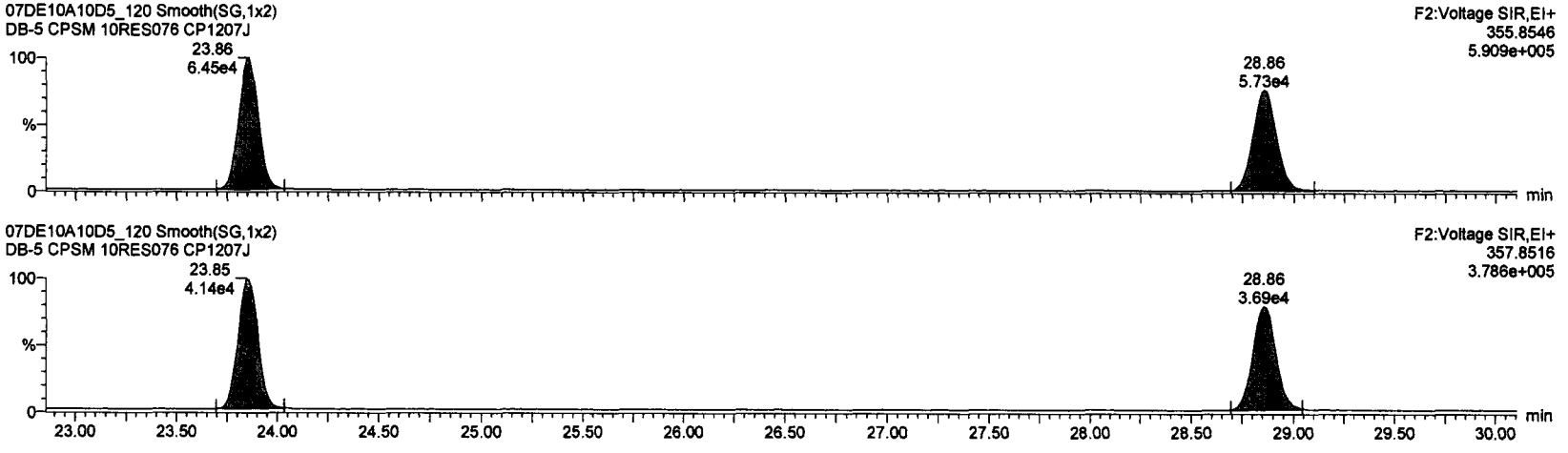
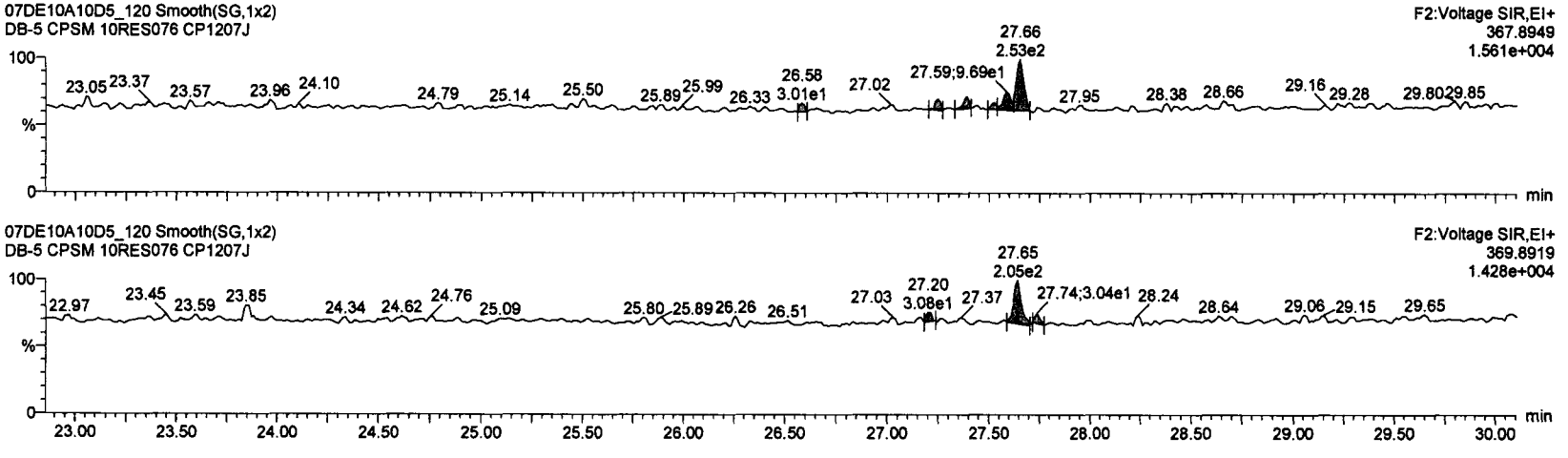
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

PeCDDs



13C-PeCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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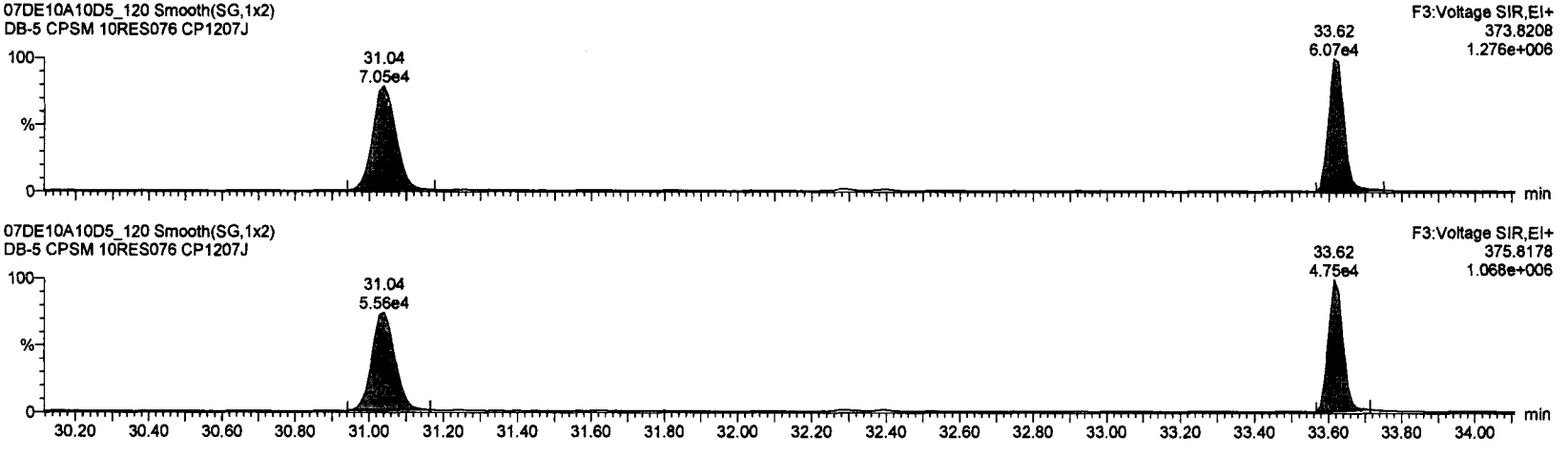
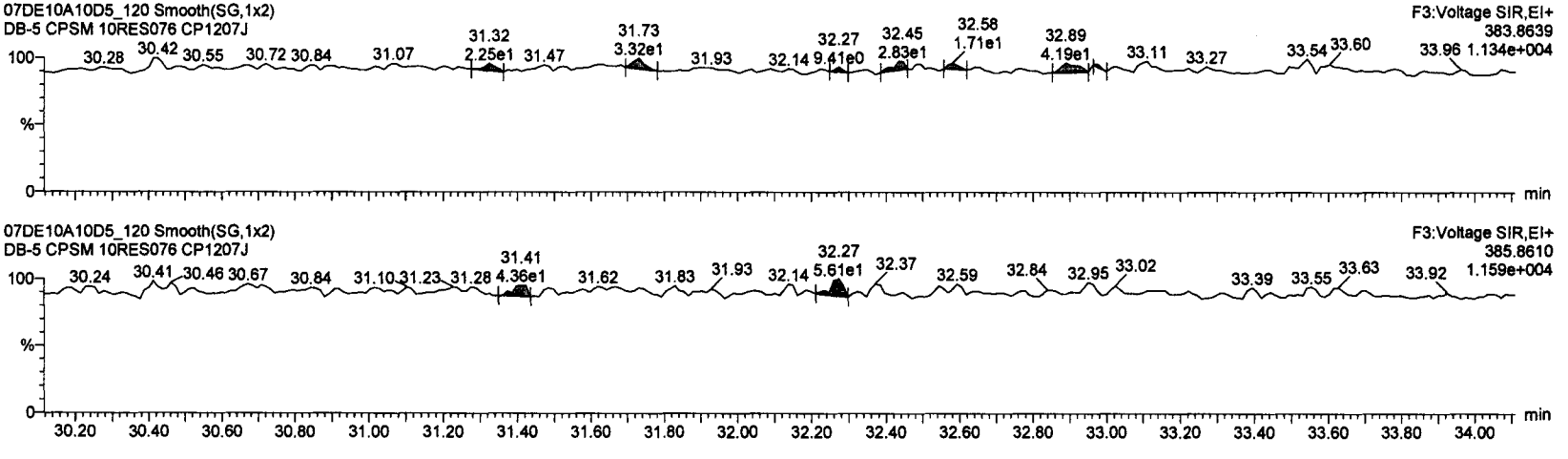
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

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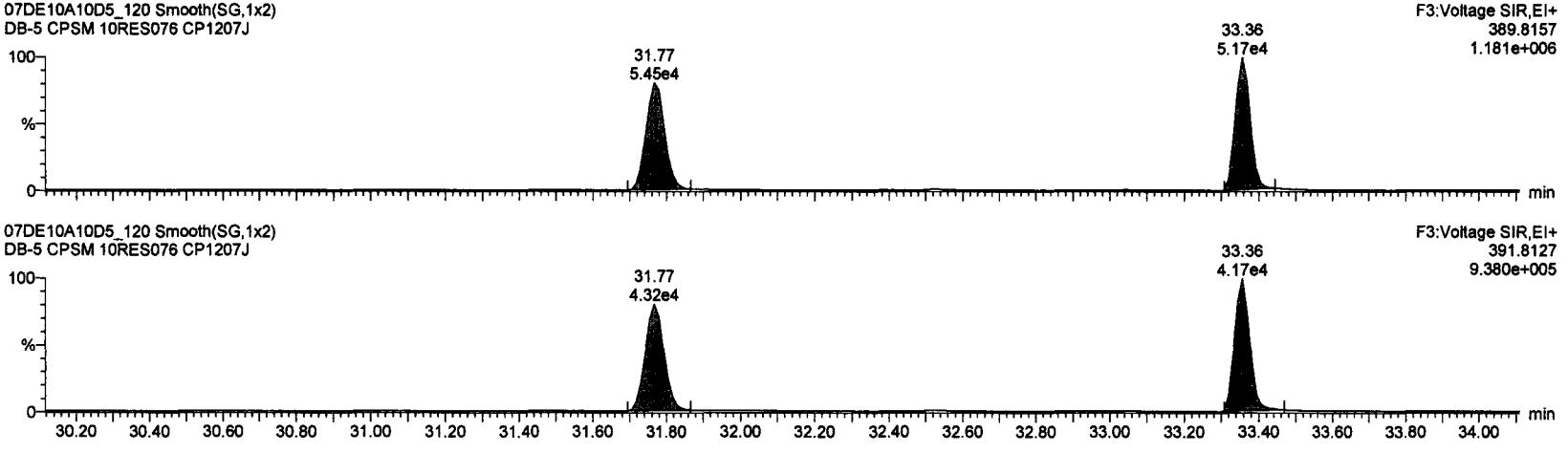
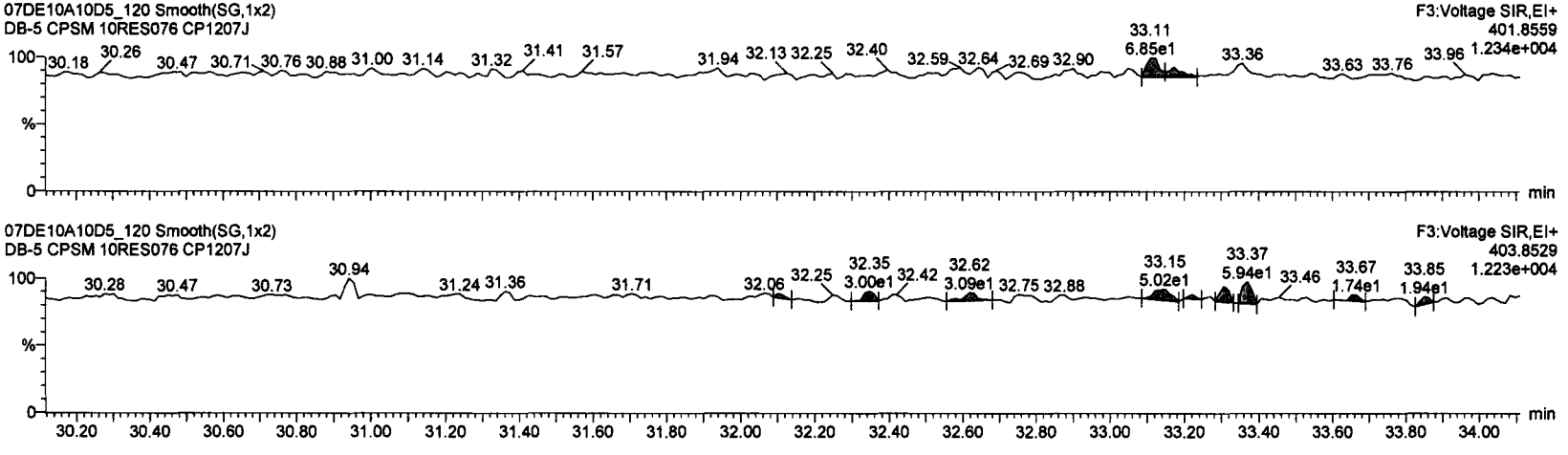
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

HxCDDs



13C-1,2,3,6,7,8-HxCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

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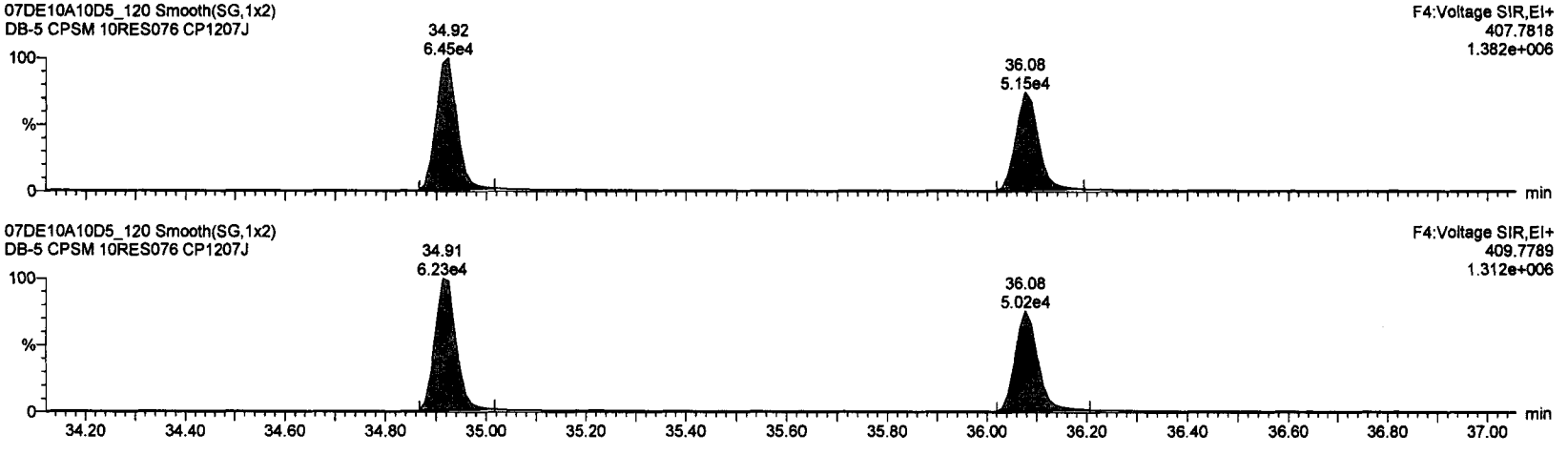
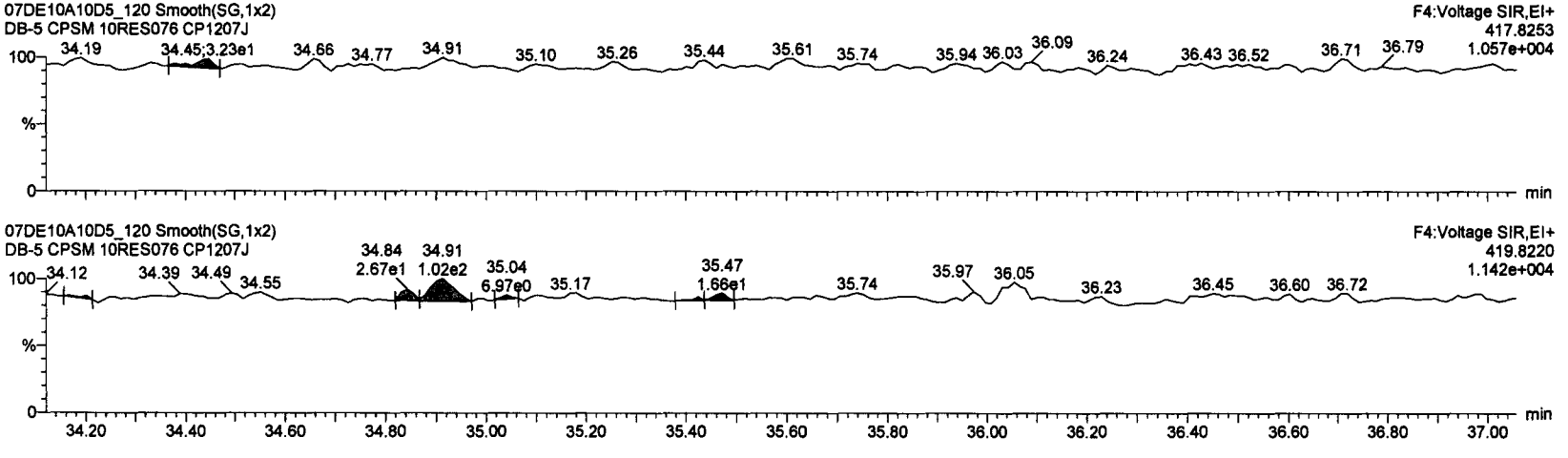
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

HpCDFs



13C-HpCDFs



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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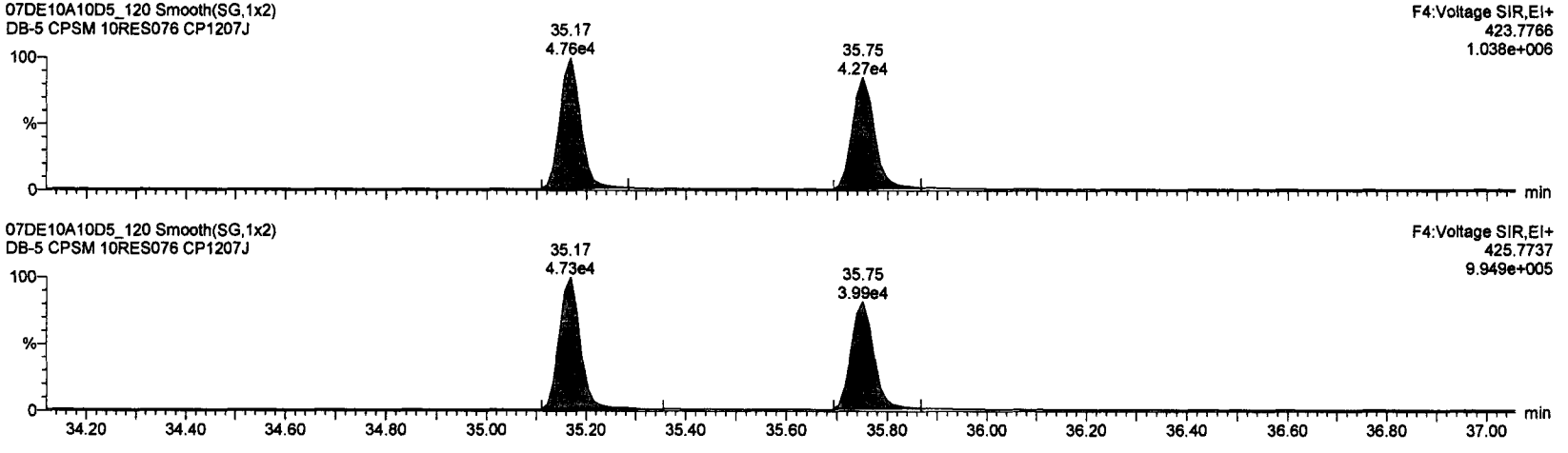
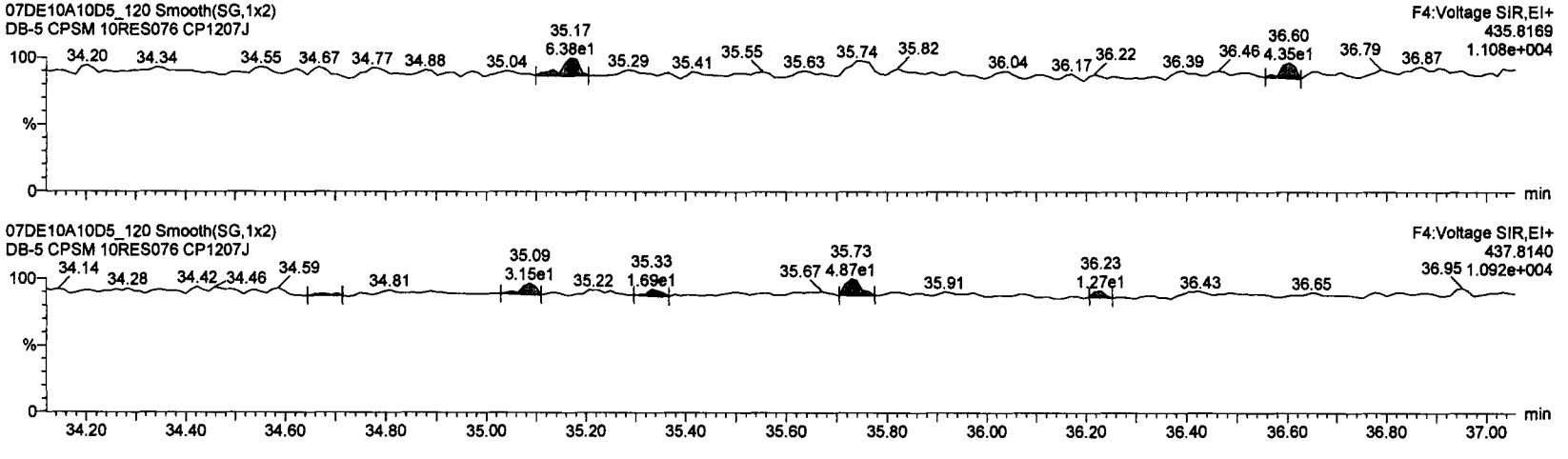
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



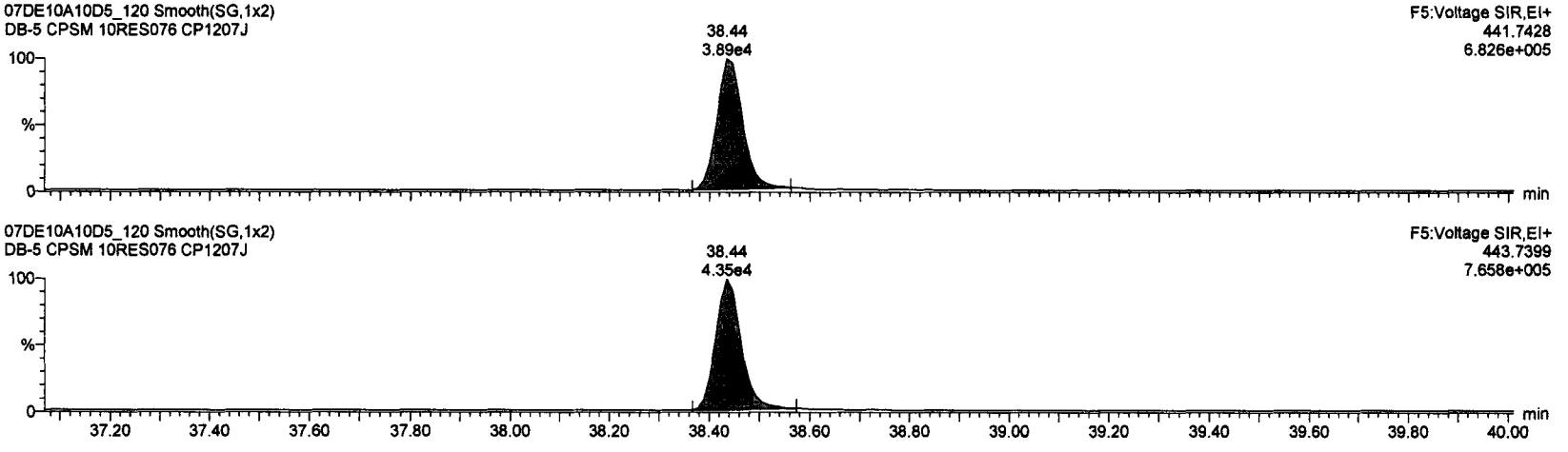
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

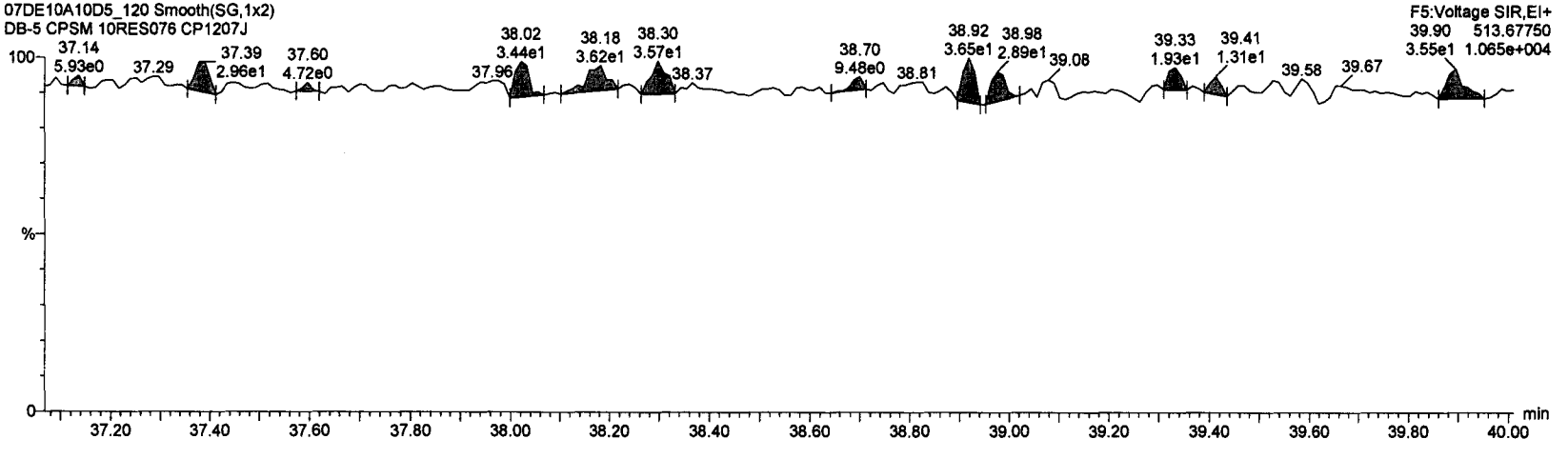
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

OCDFs



OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

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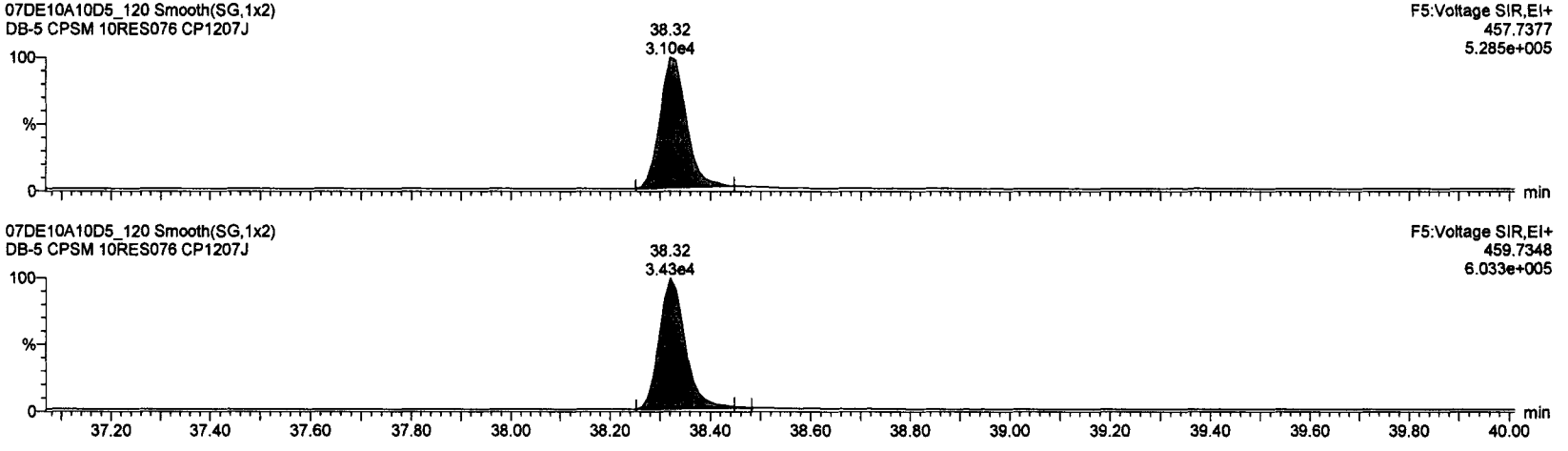
OCDD



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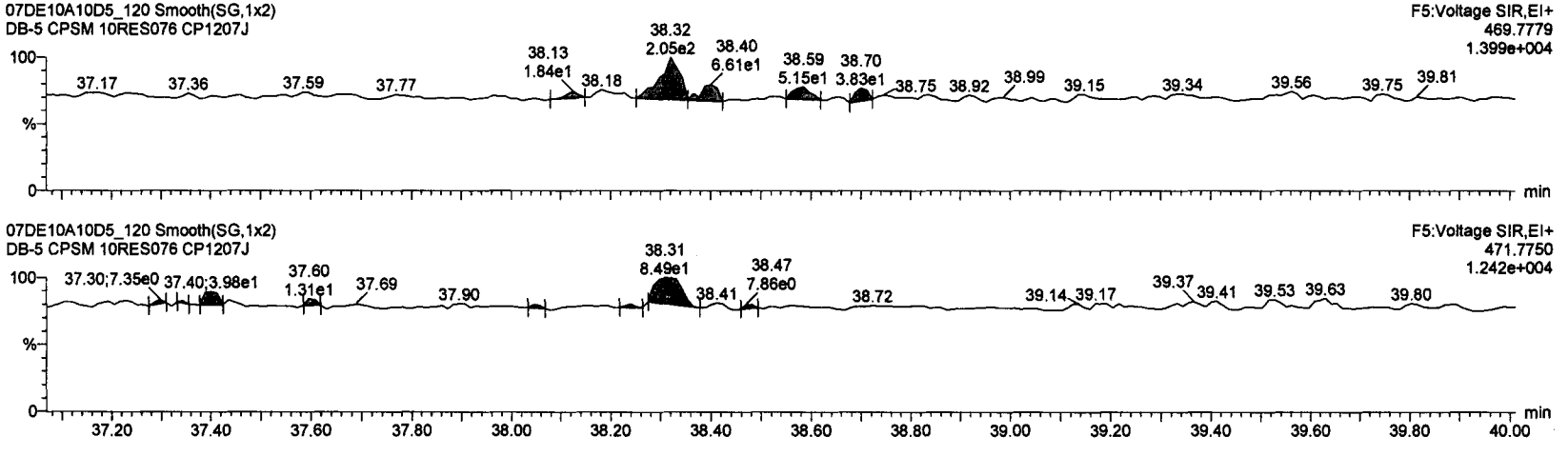


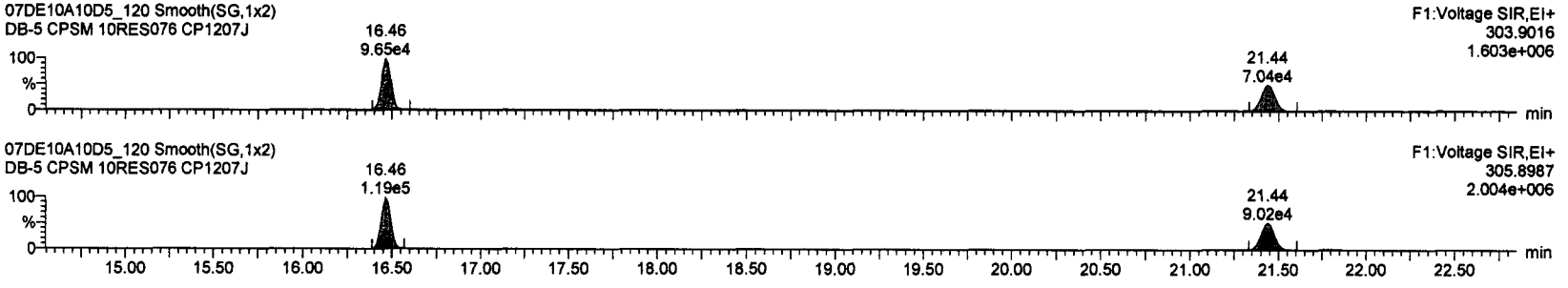
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

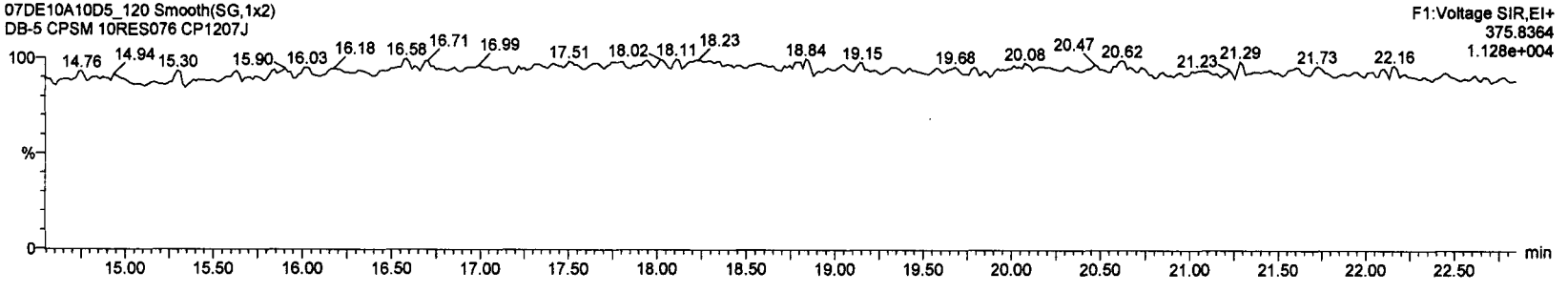
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

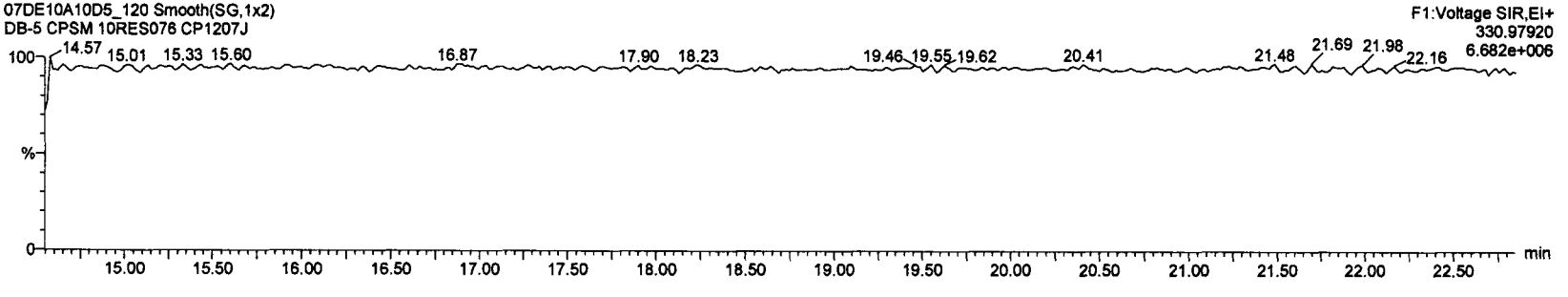
TCDFs



TCDF PCDPE



Function 1 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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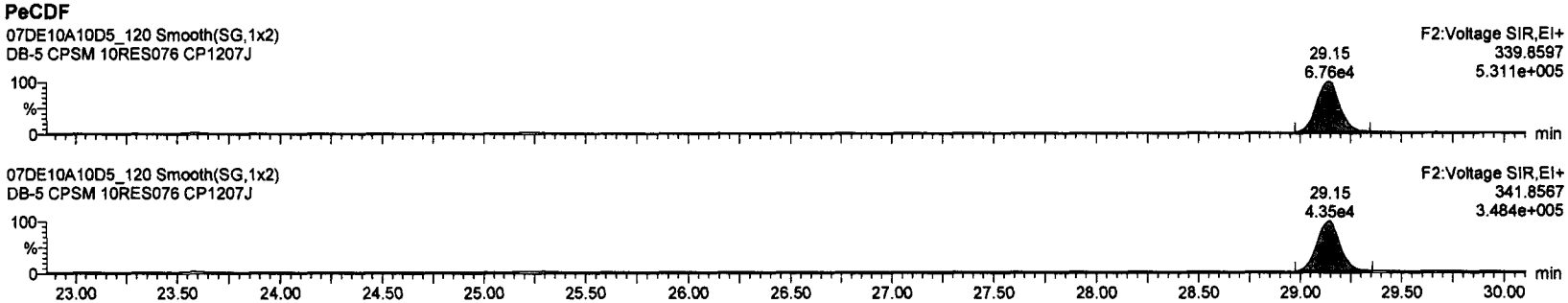
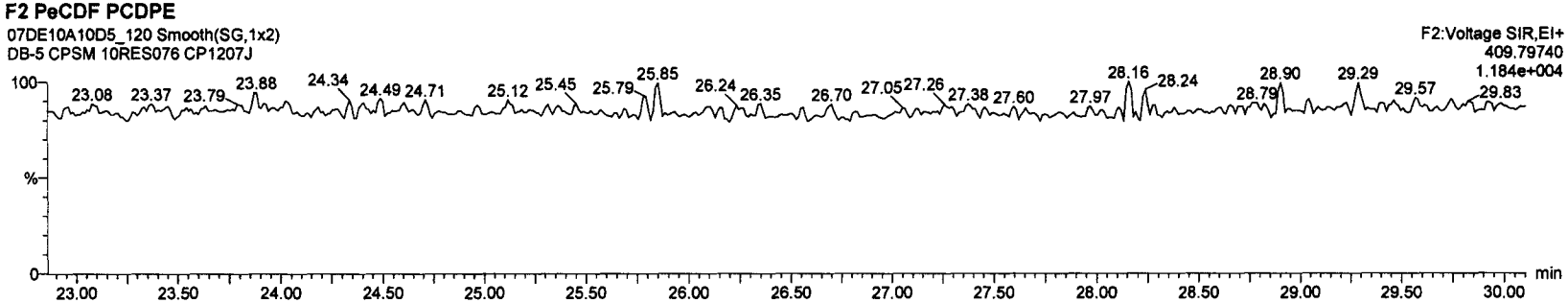
Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

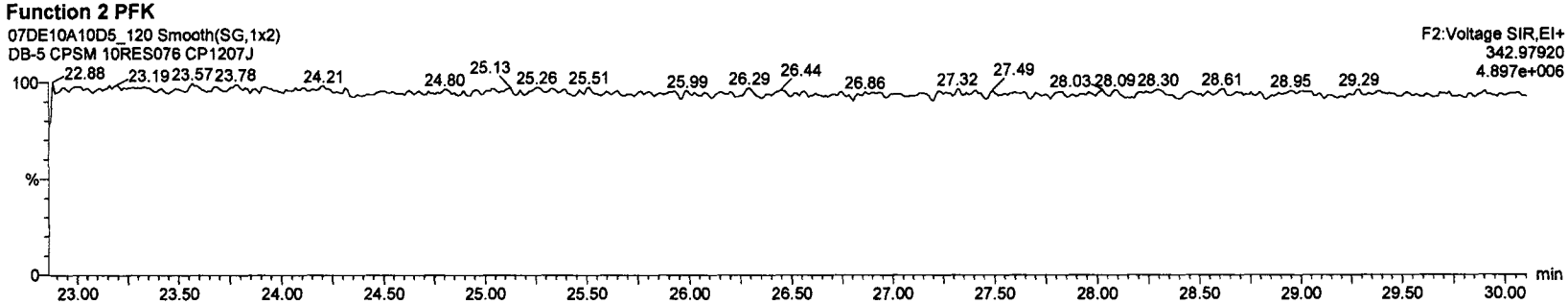
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



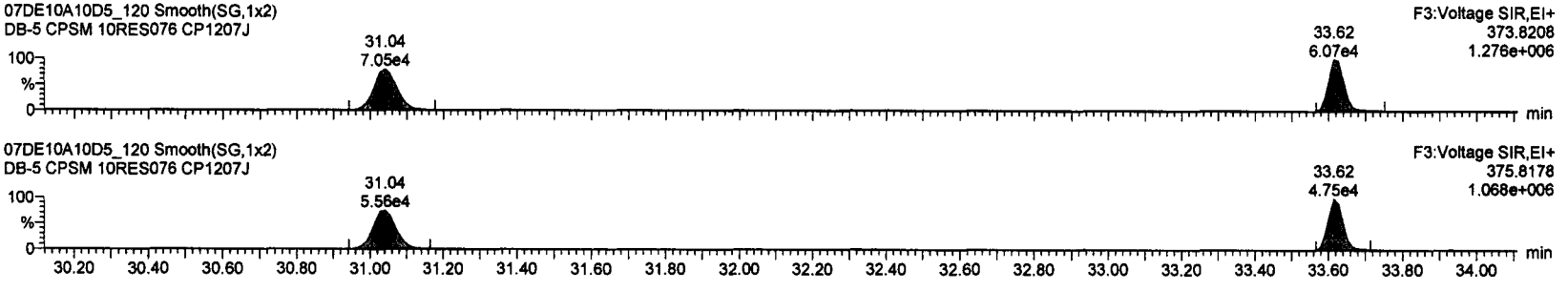
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

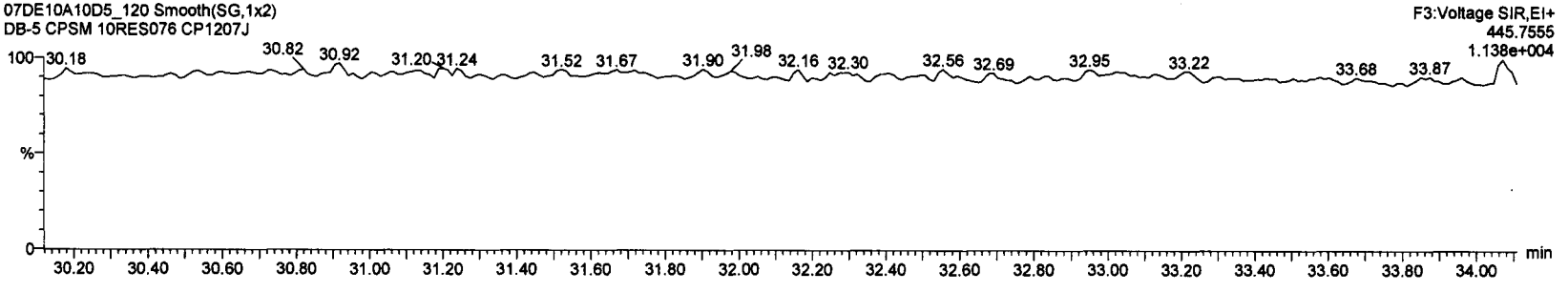
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

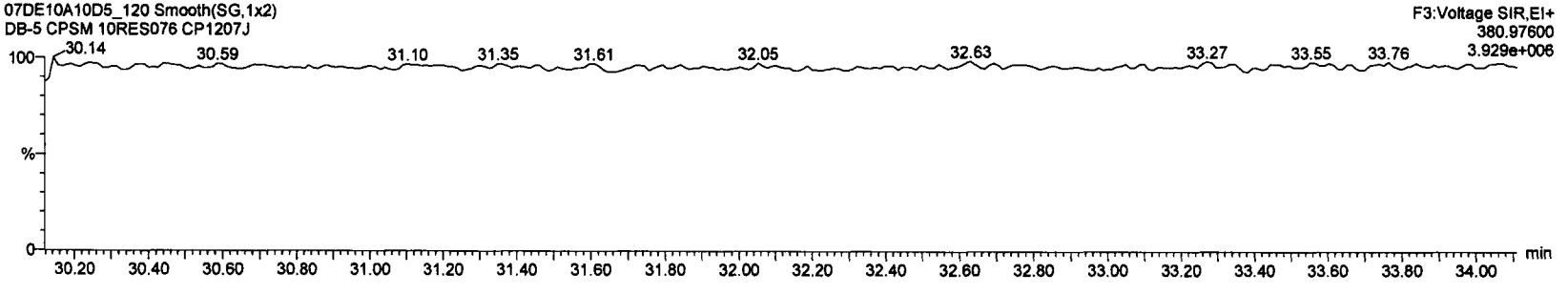
HxCDFs



HxCDF PCDPE



Function 3 PFK



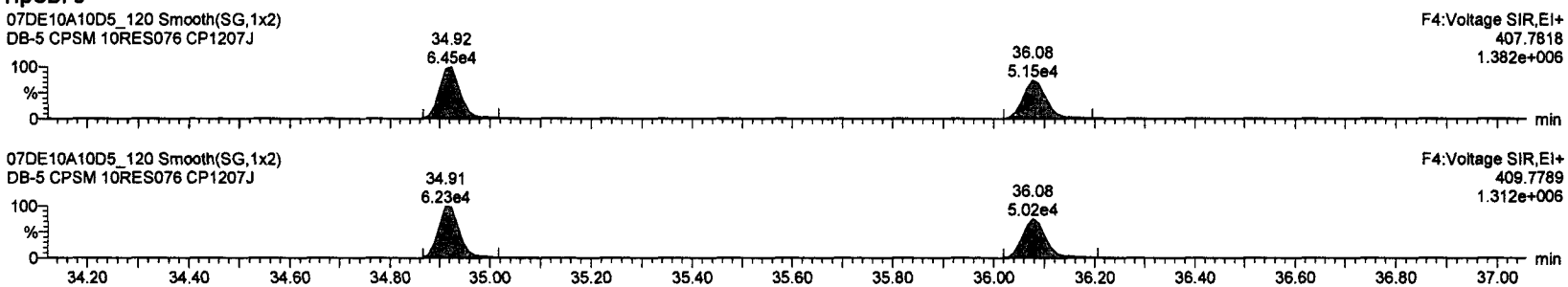
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

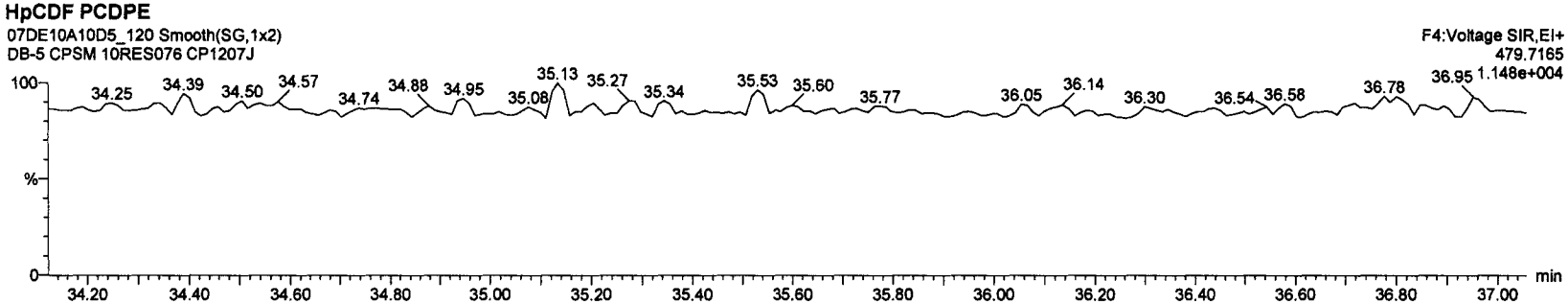
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

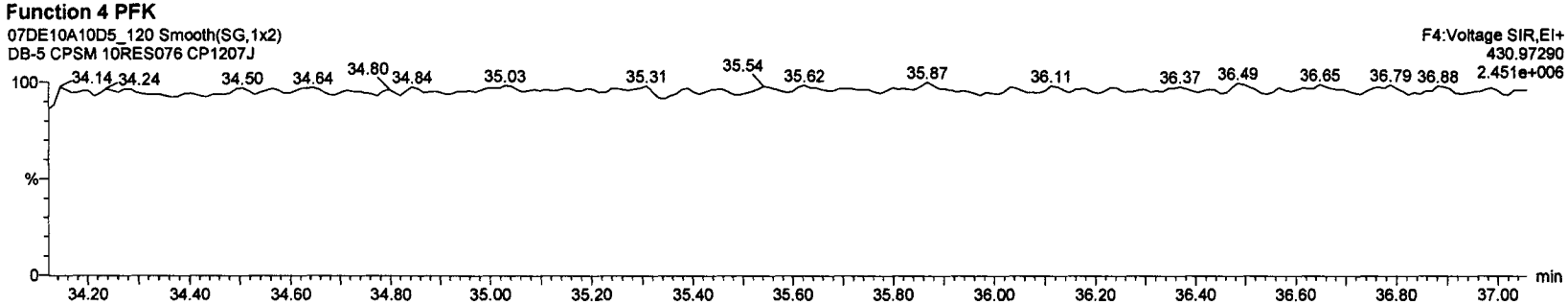
HpCDFs



HpCDF PCDPE



Function 4 PFK



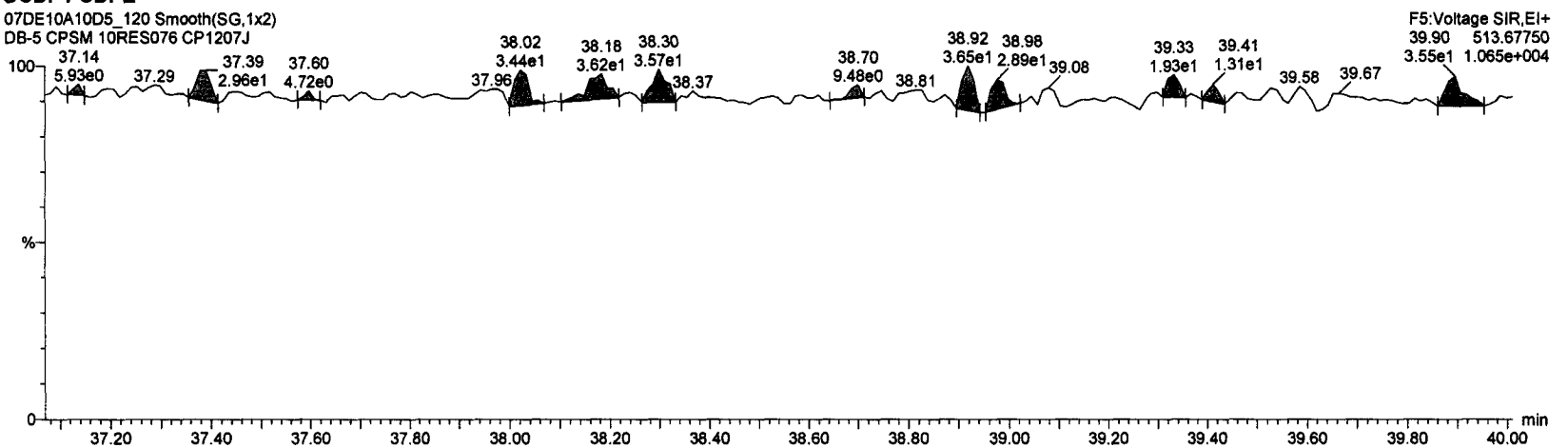
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

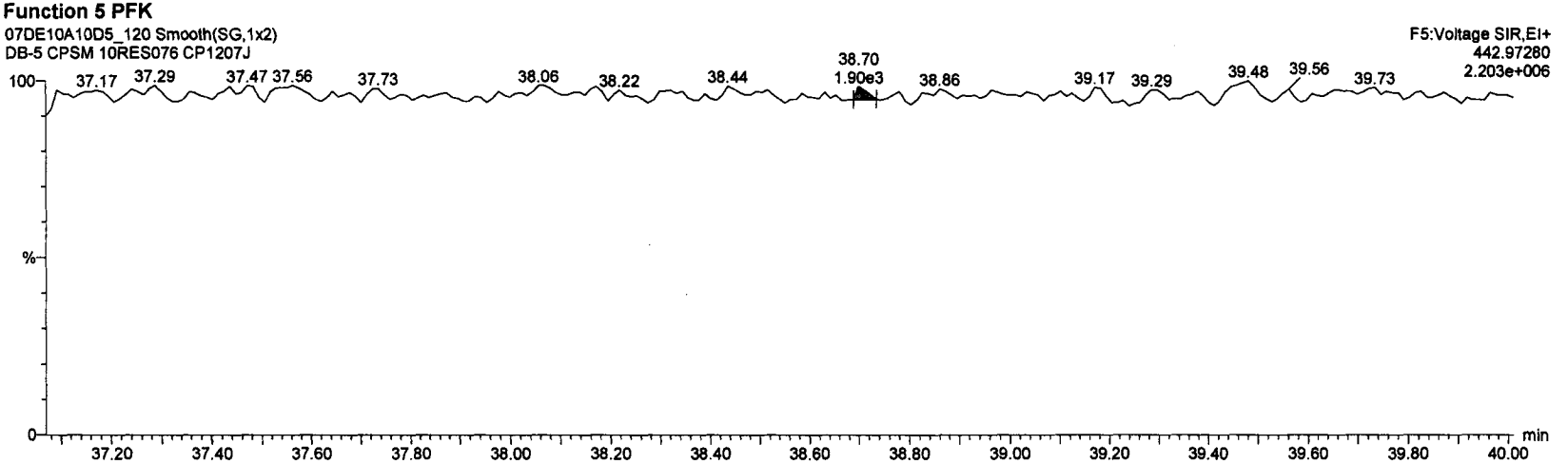
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_120, Date: 11-Dec-2010, Time: 11:23:16, ID: CP1207J, Description: DB-5 CPSM 10RES076

OCDF PCDPE



Function 5 PFK



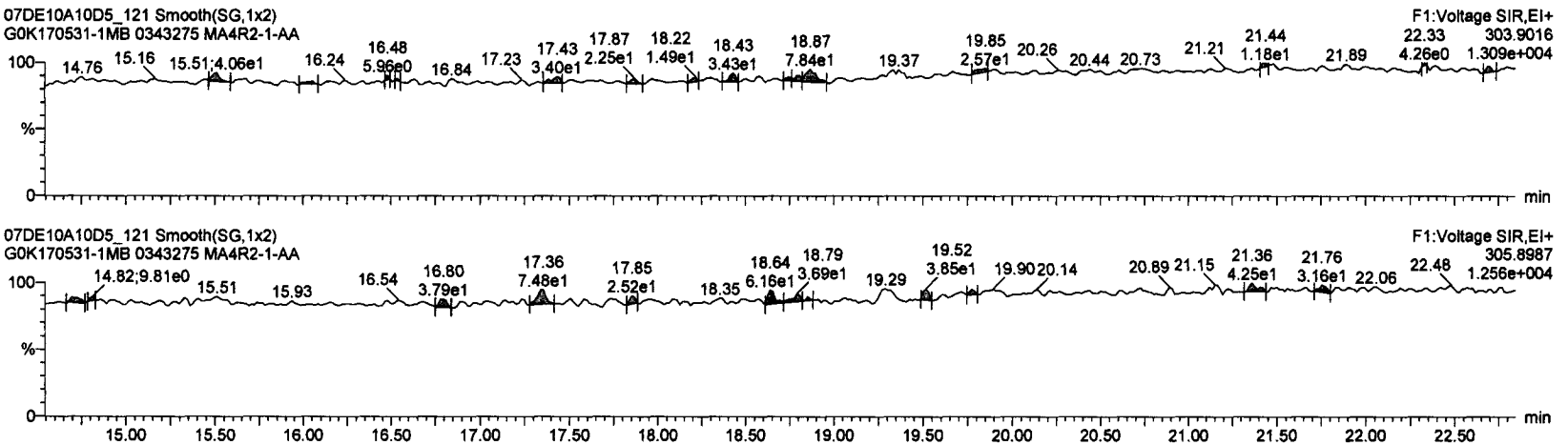
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

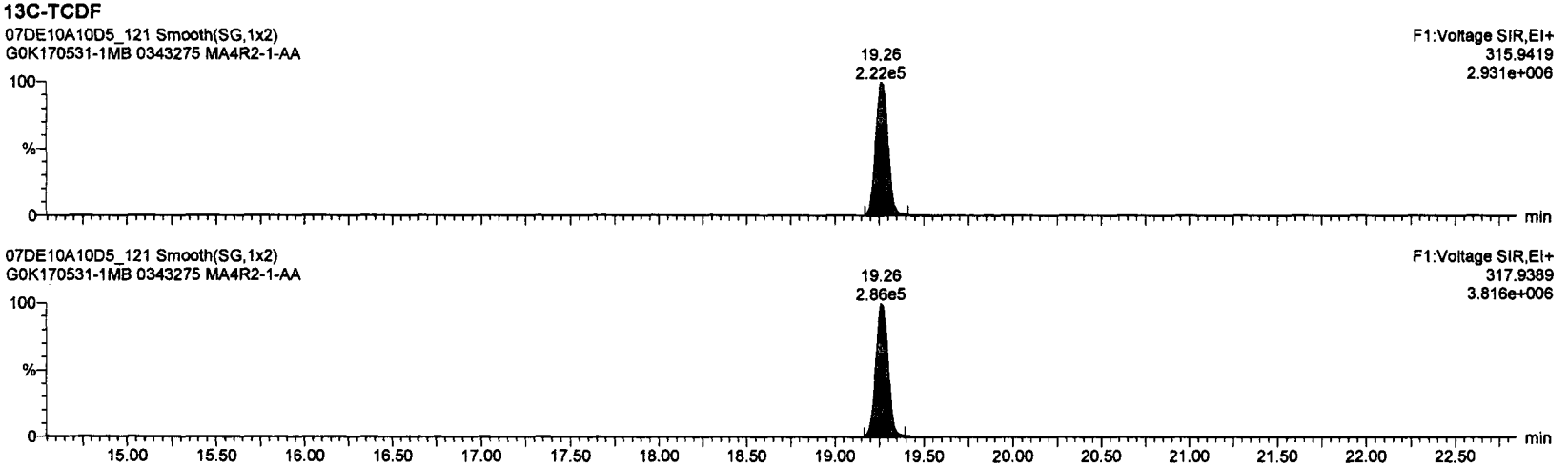
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

TCDFs



13C-TCDF



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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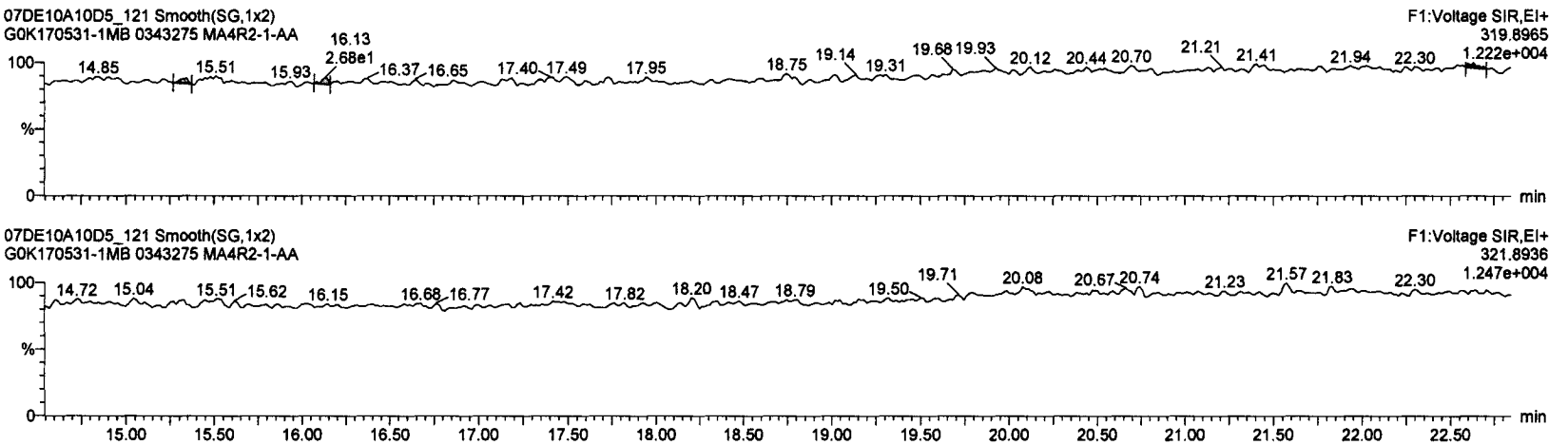
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

TCDDs



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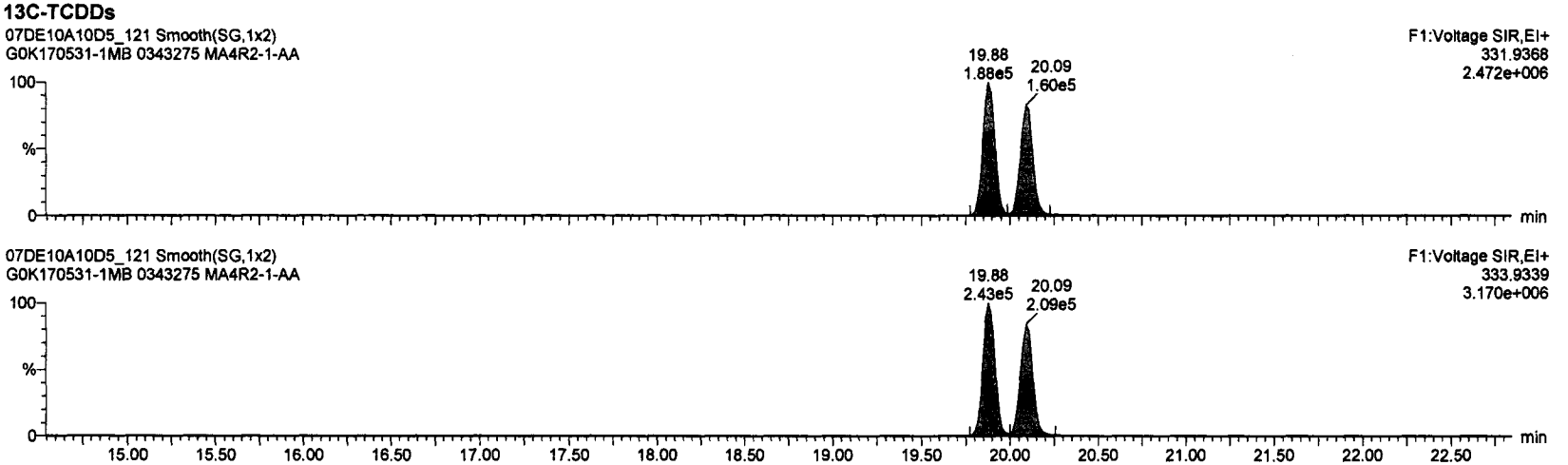

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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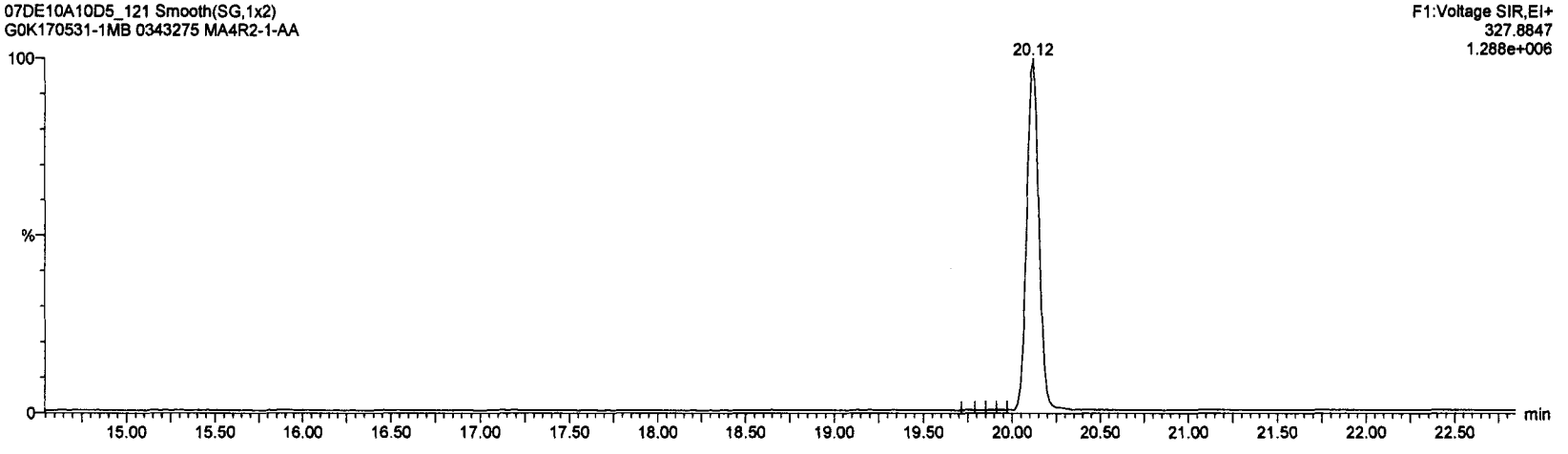
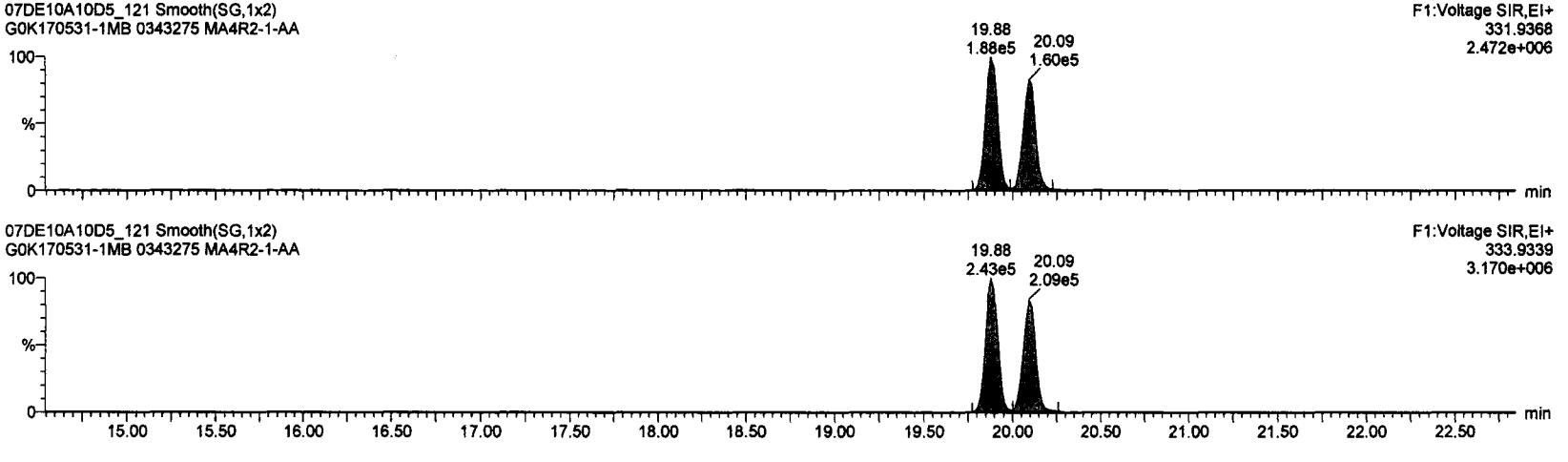
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

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



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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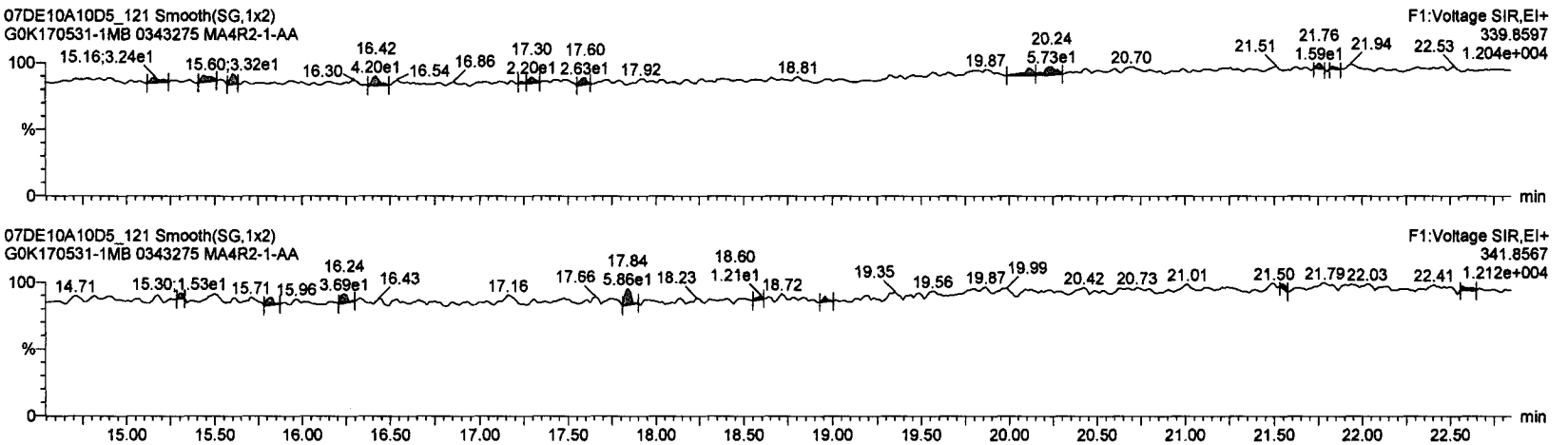
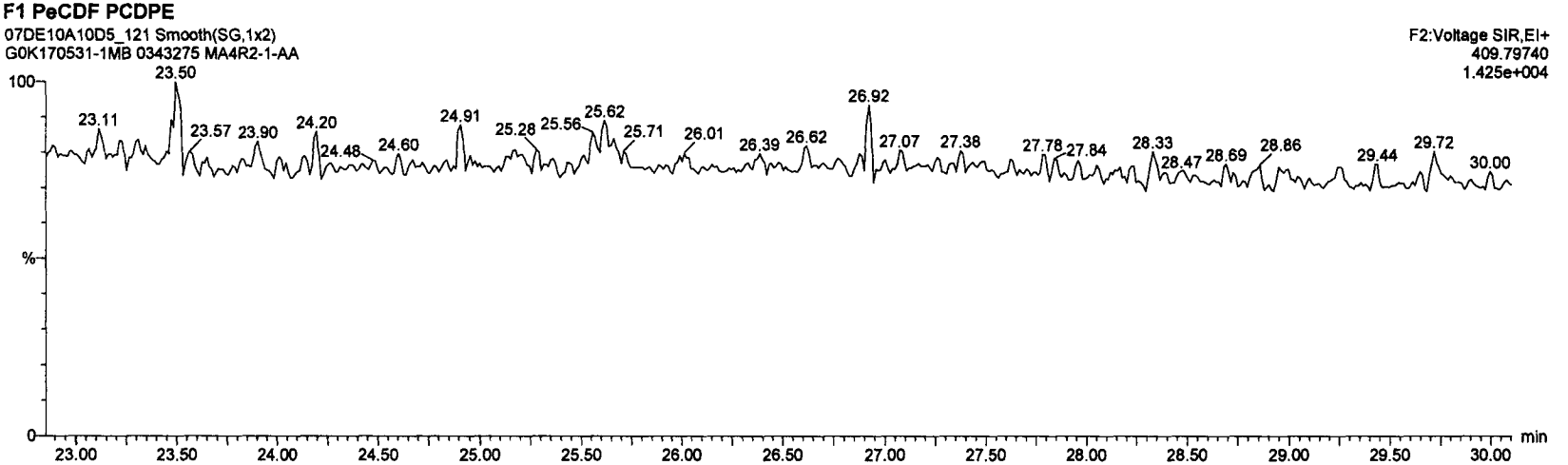
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

F1 PeCDFs



F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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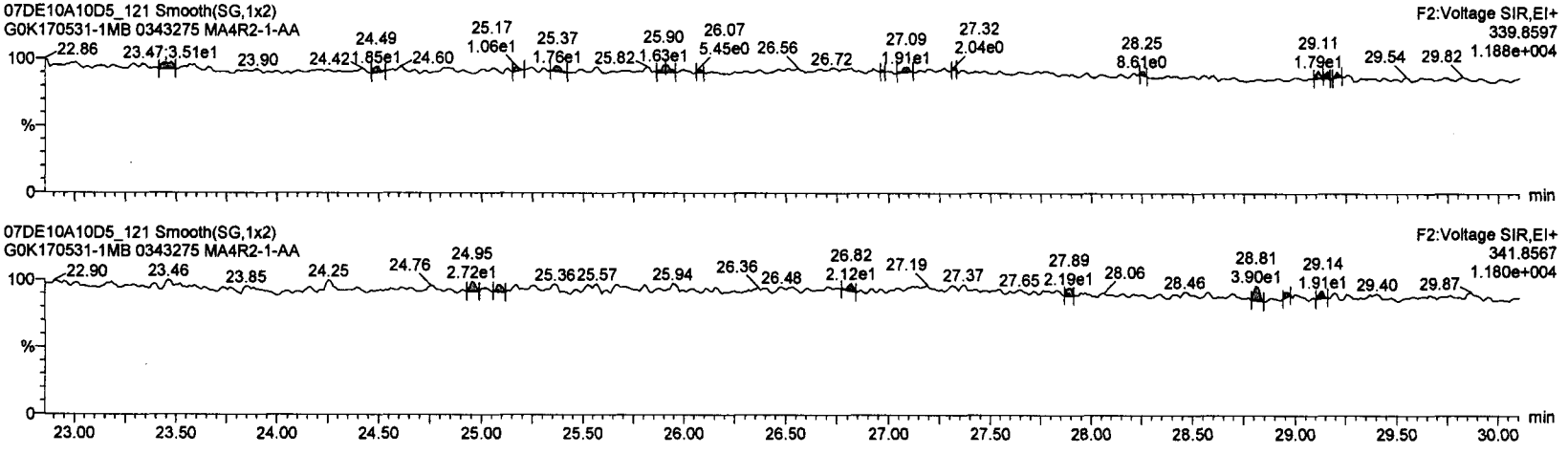
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

PeCDFs



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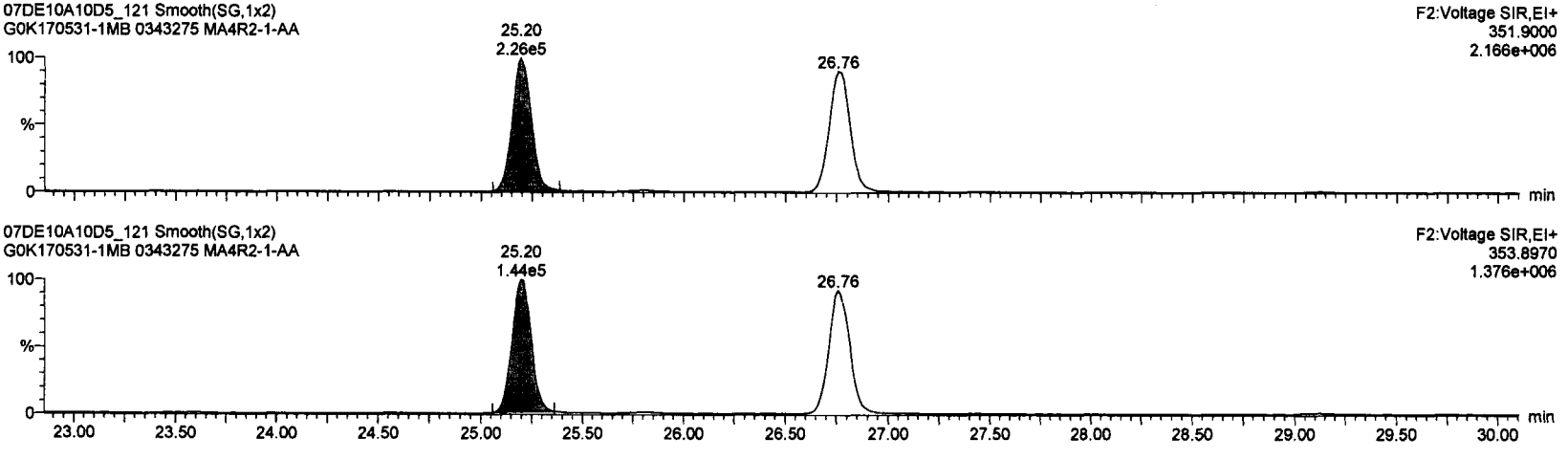

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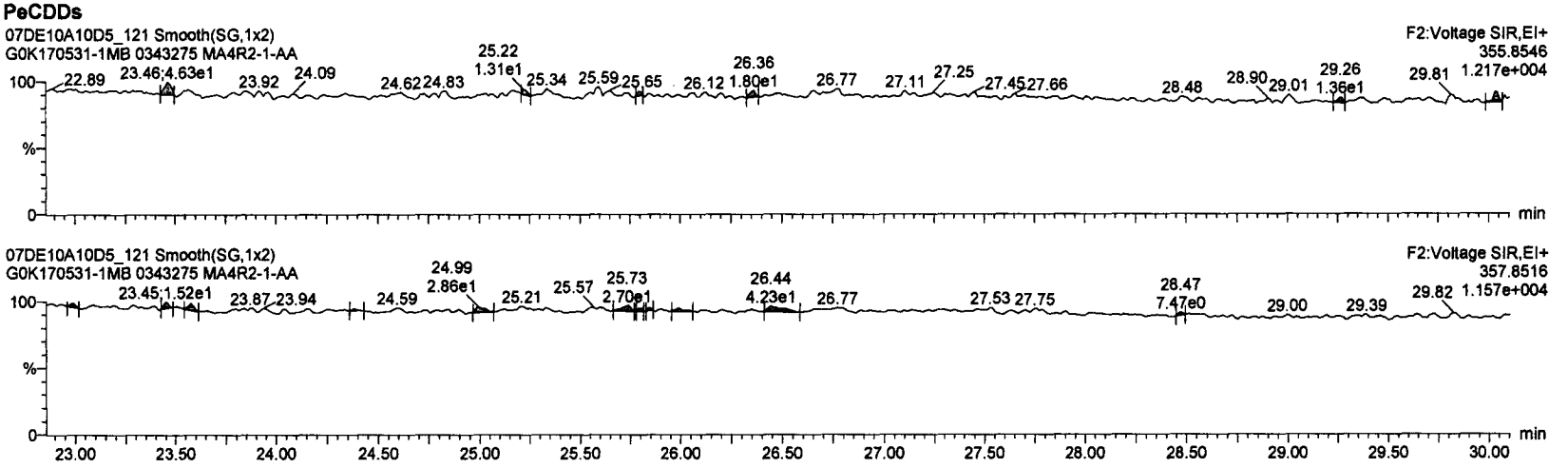
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

PeCDDs



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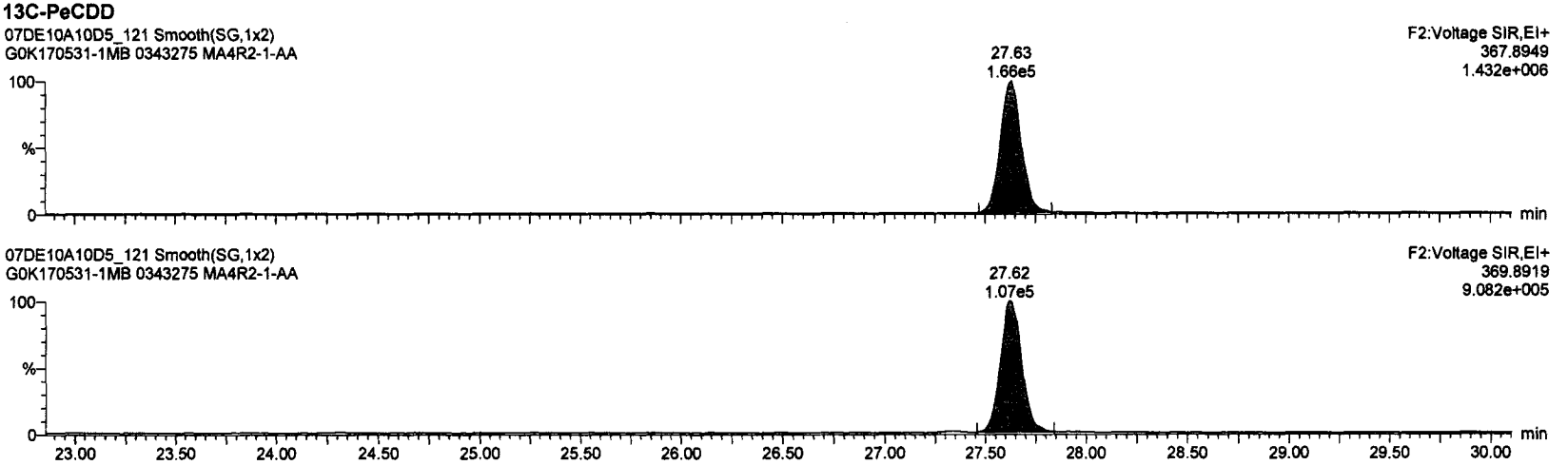

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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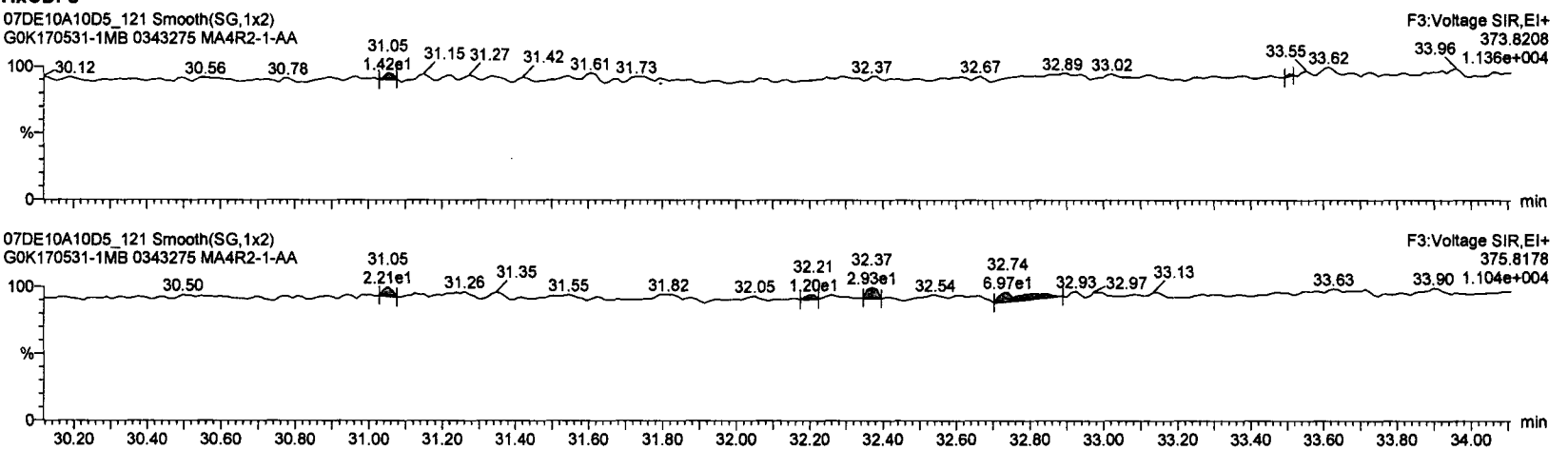
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

HxCDFs



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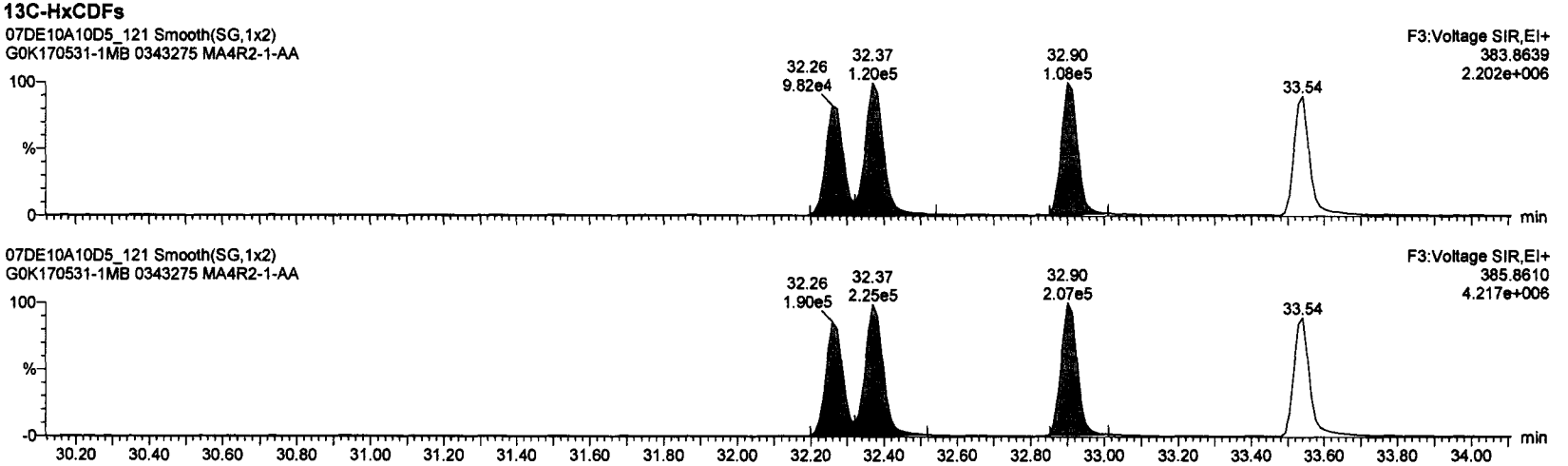

Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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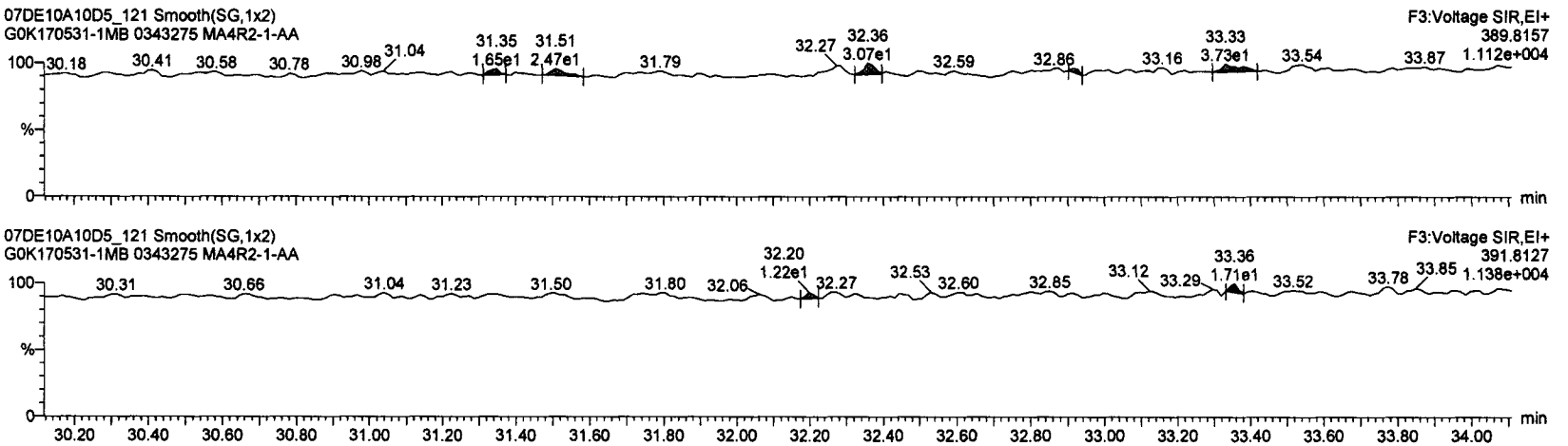
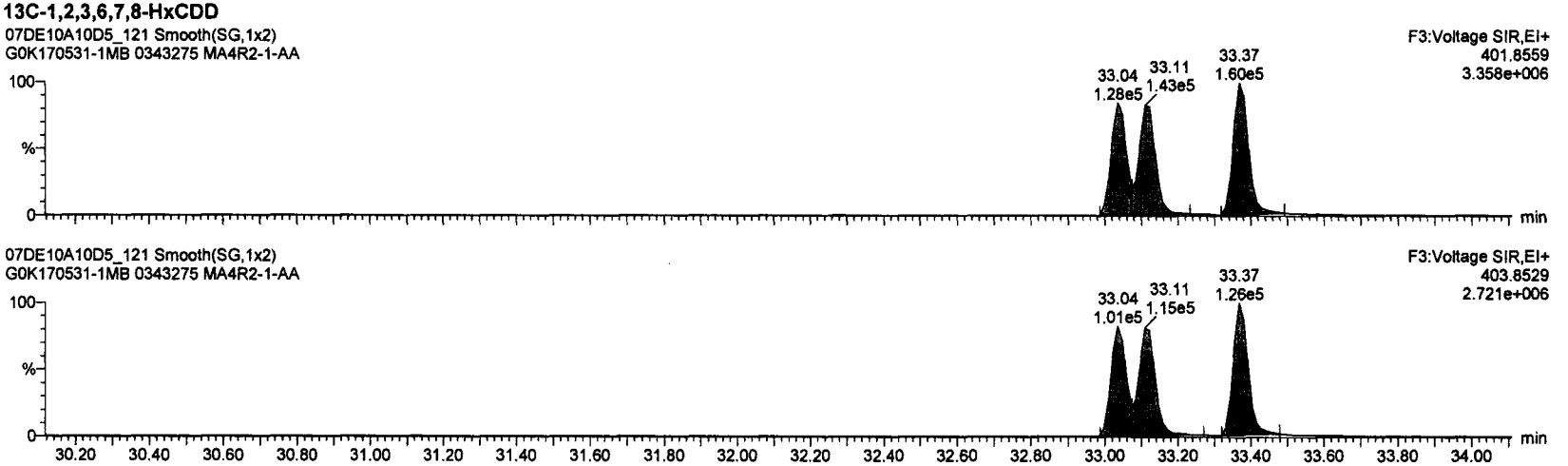
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

HxCDDs



13C-1,2,3,6,7,8-HxCDD



Quantify Sample Report **MassLynx 4.1**

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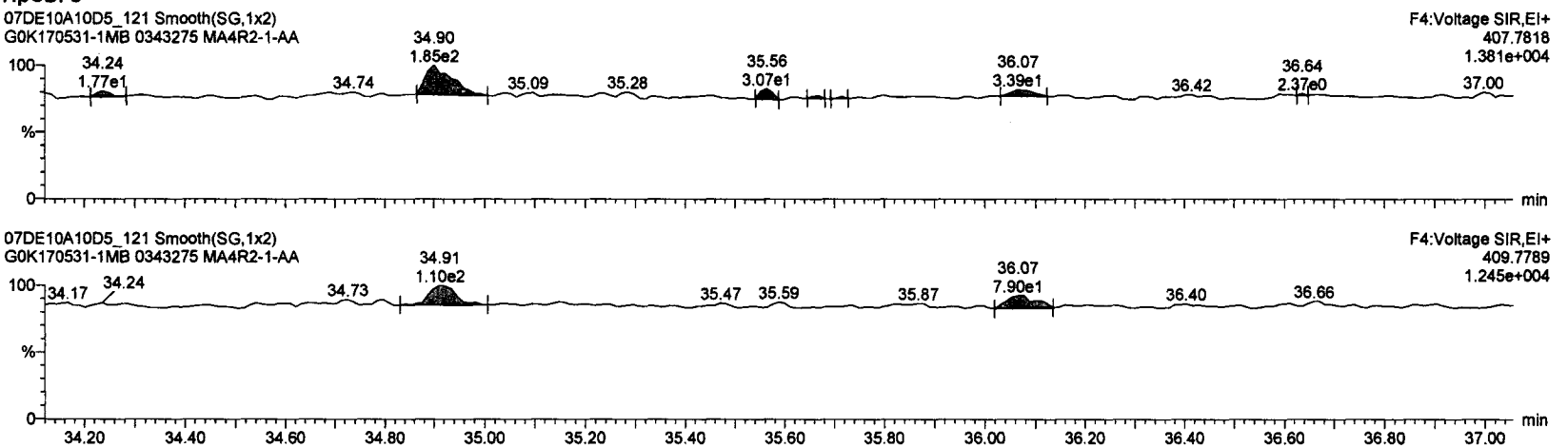
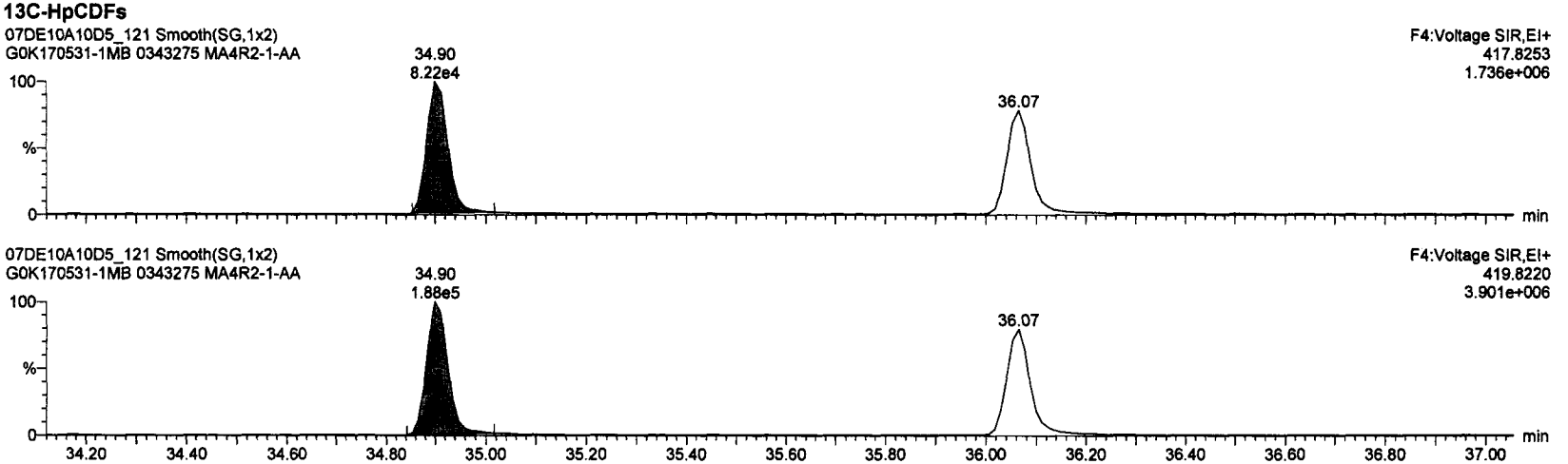
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

HpCDFs



13C-HpCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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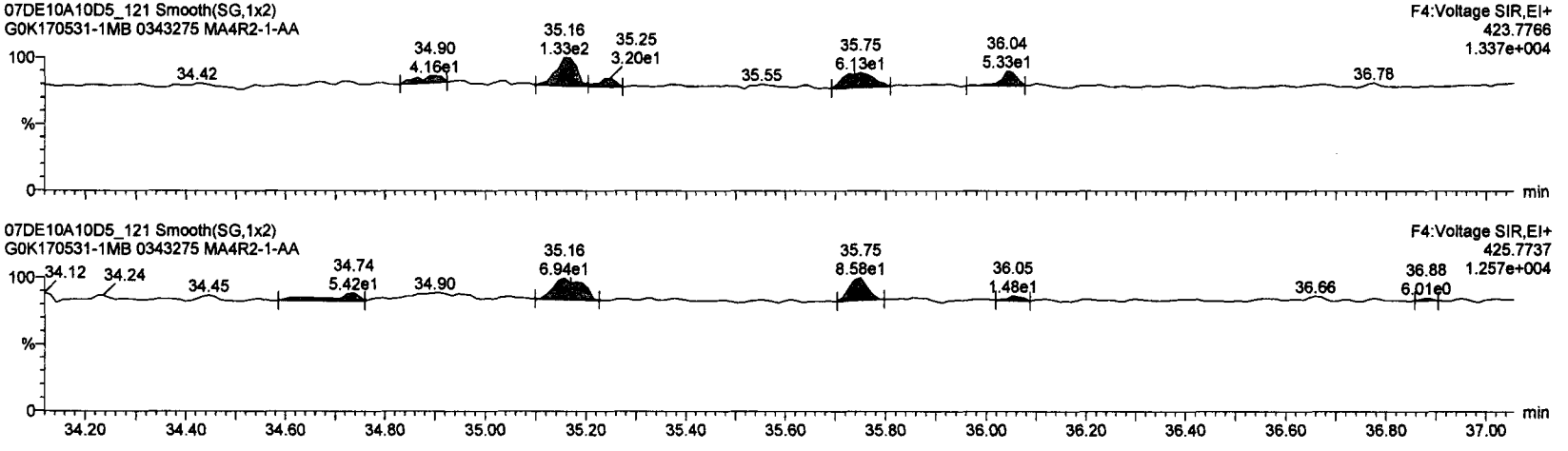
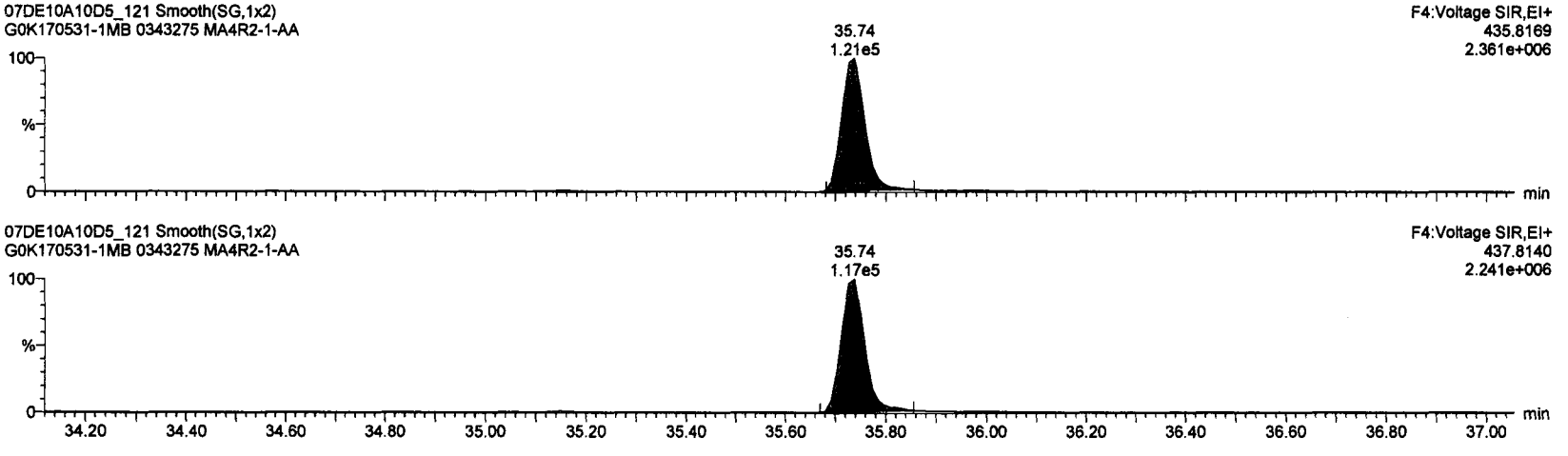
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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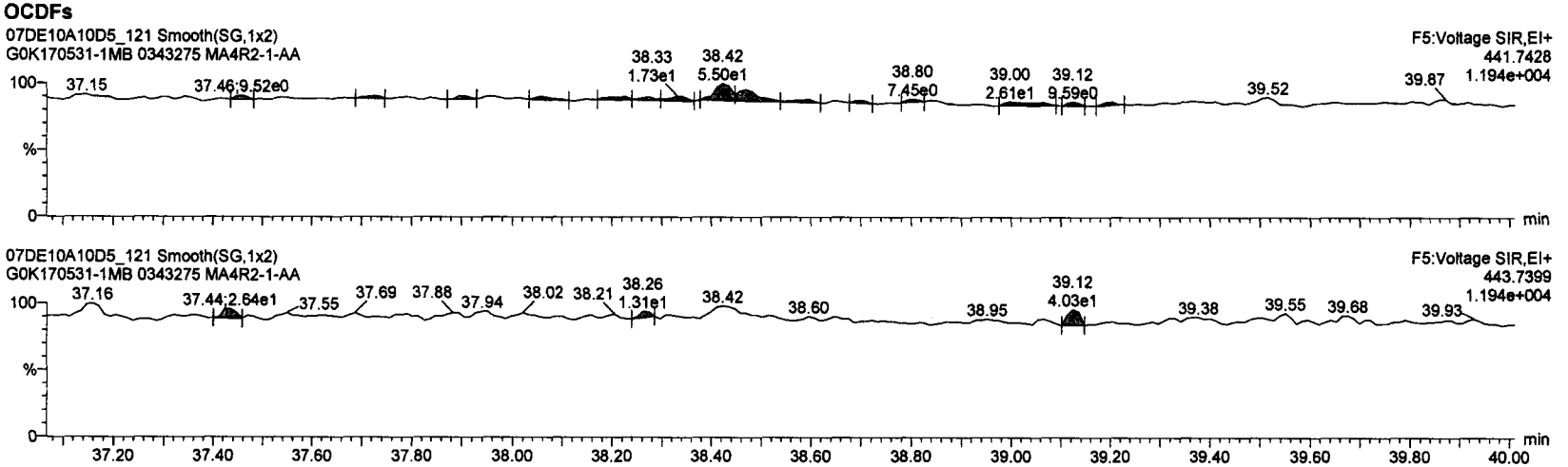
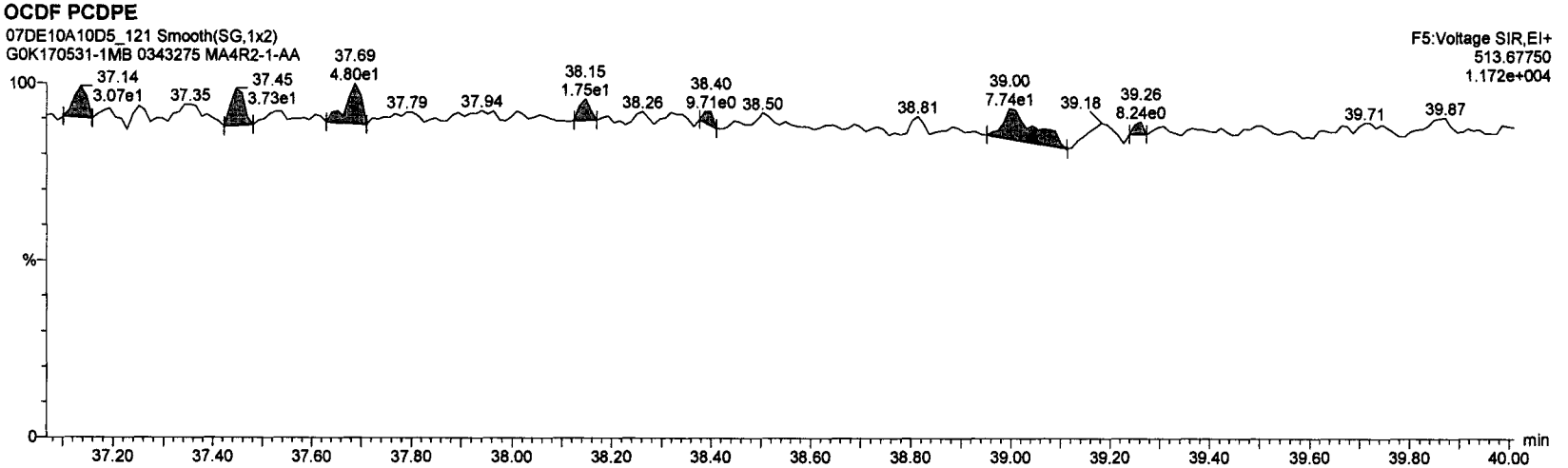
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

OCDFs



OCDF PCDPE



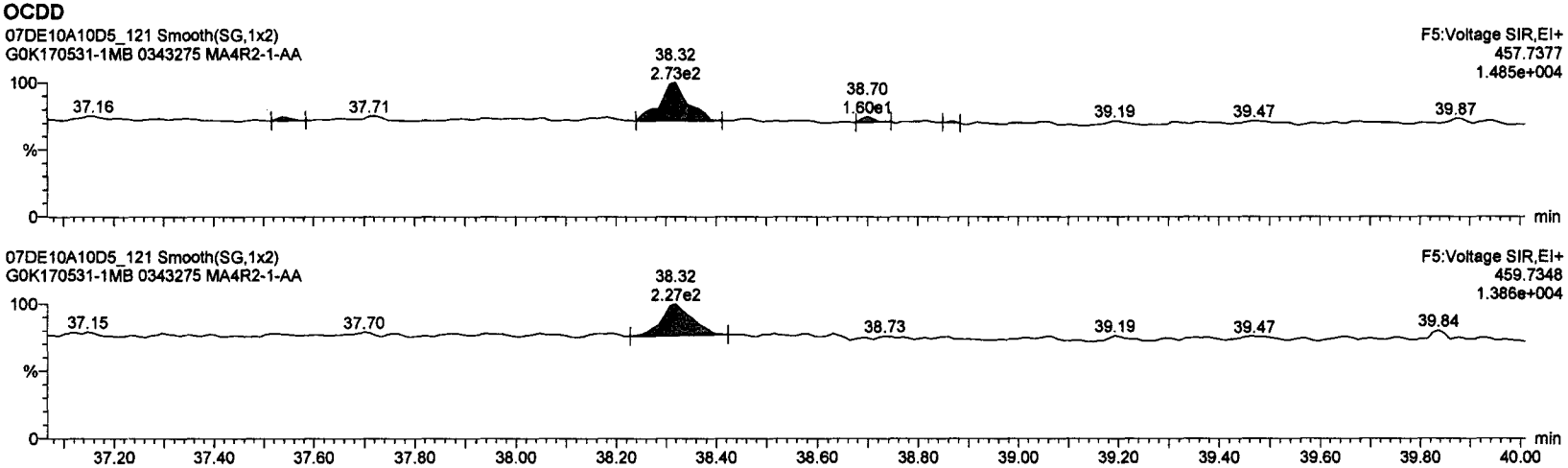
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

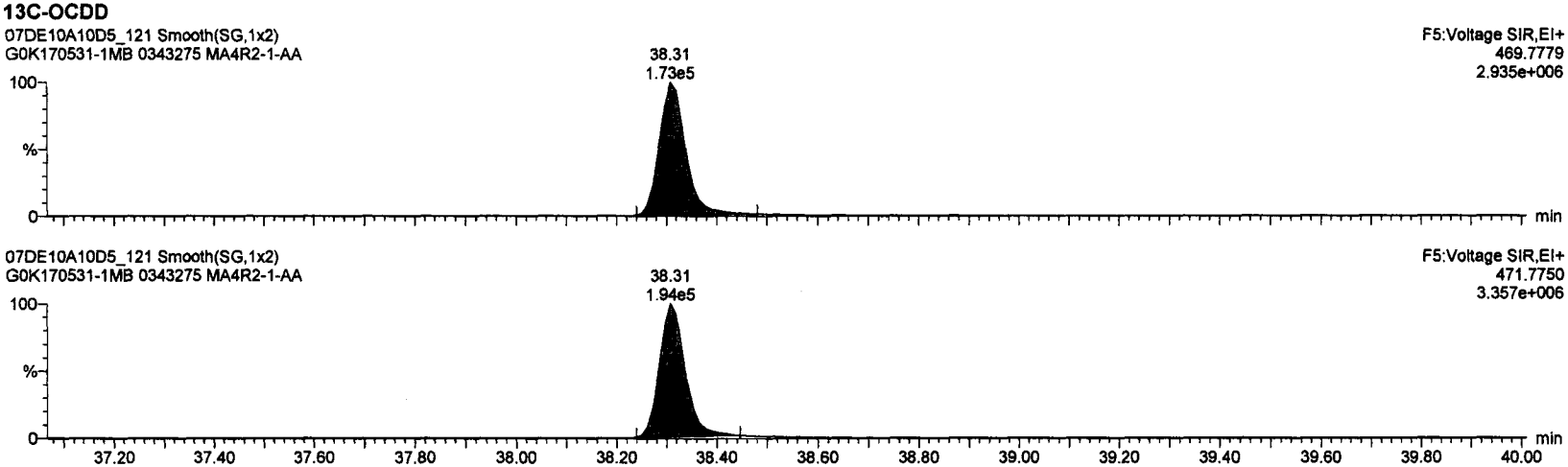
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

OCDD



13C-OCDD



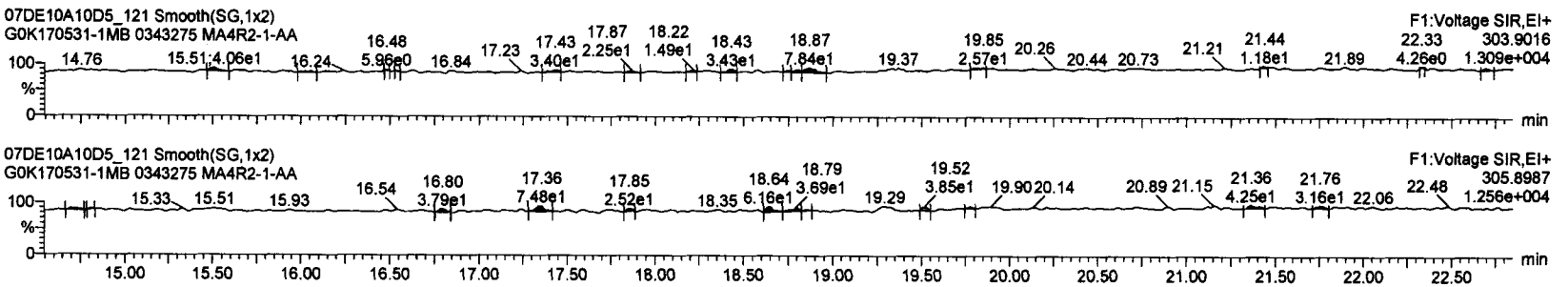
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

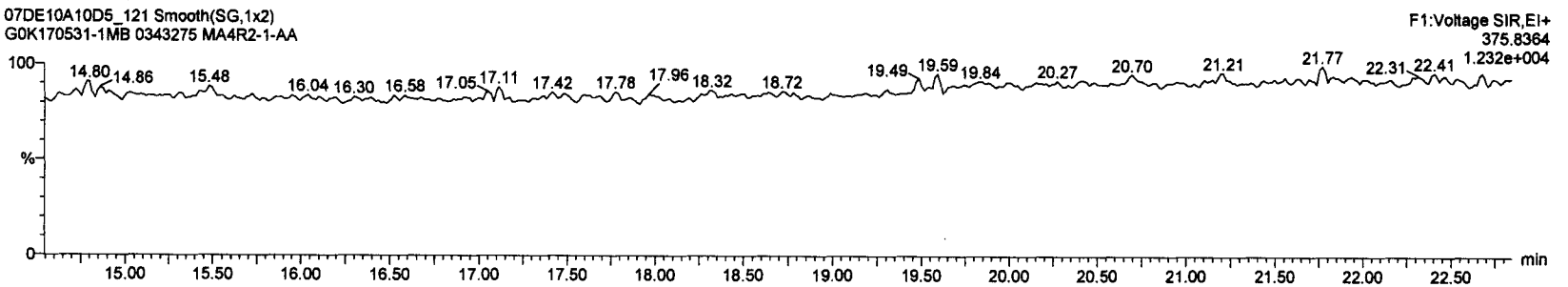
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

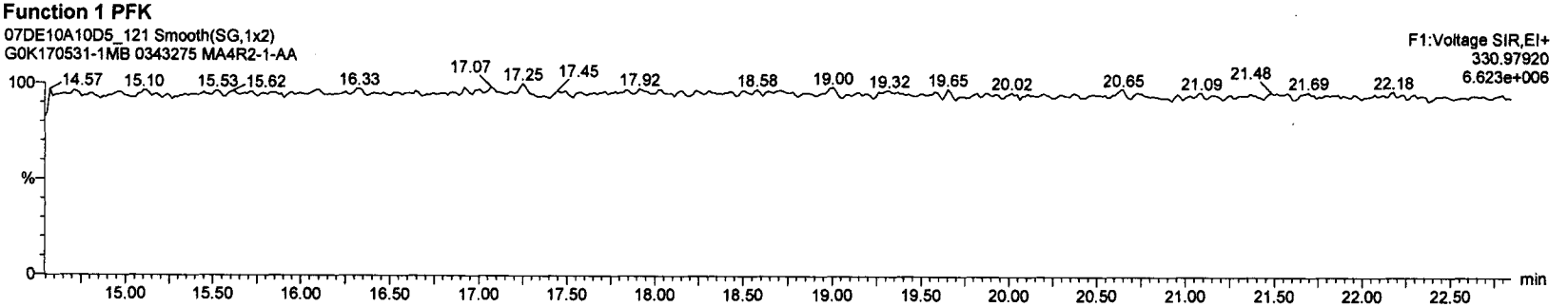
TCDFs



TCDF PCDPE



Function 1 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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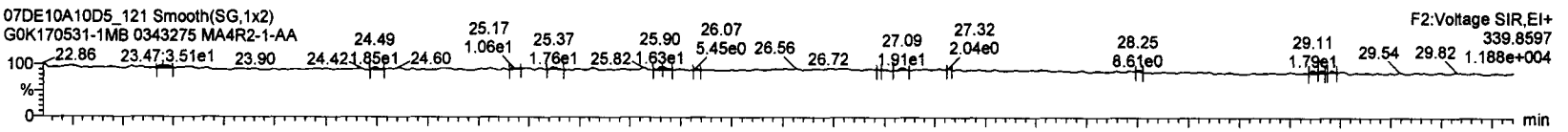
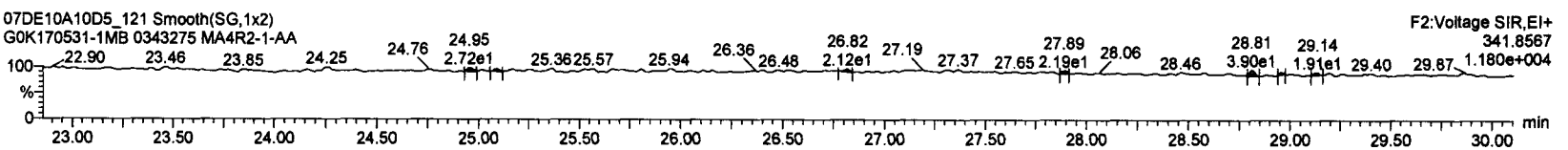
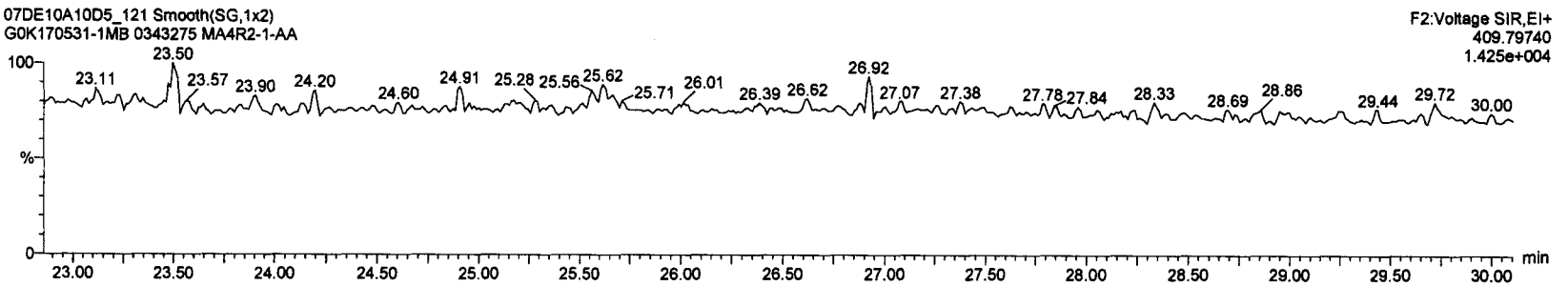
Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

PeCDF

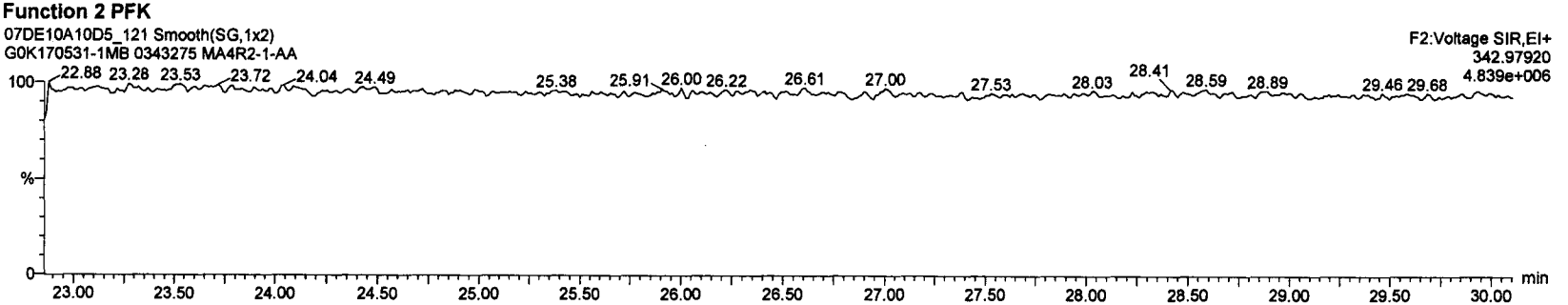




F2 PeCDF PCDPE



Function 2 PFK



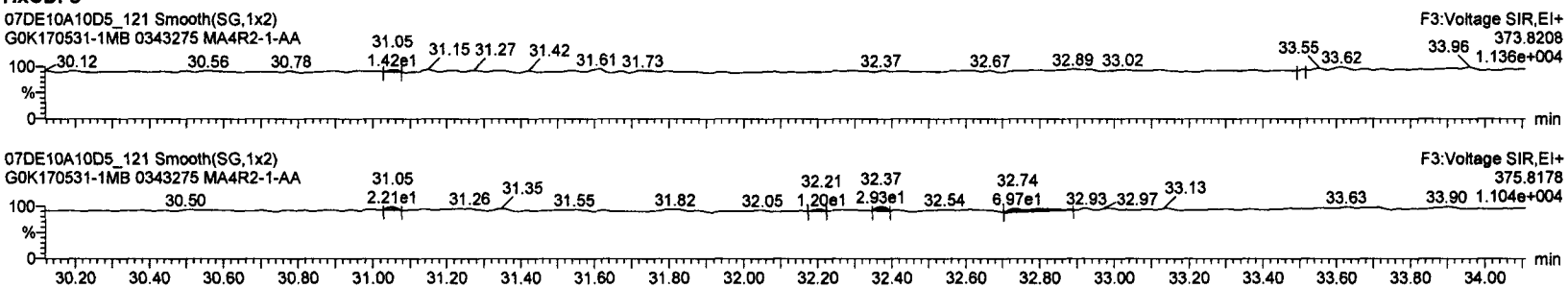
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

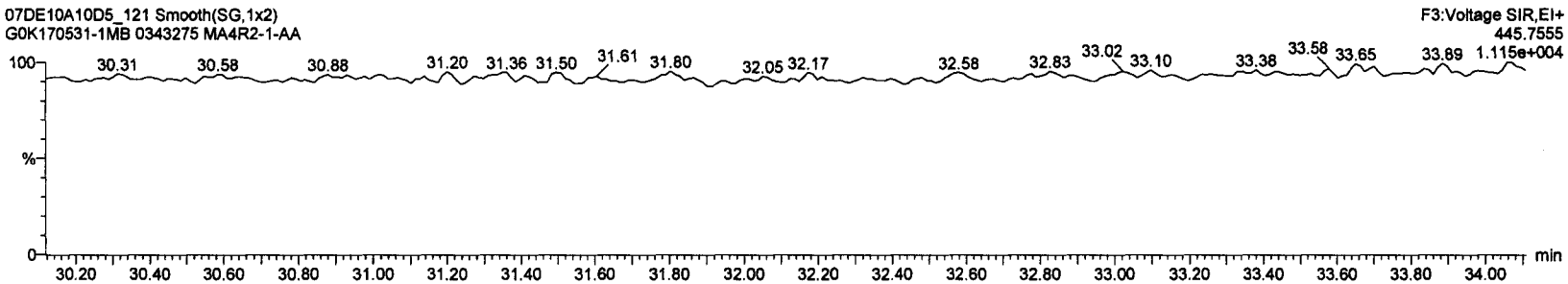
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

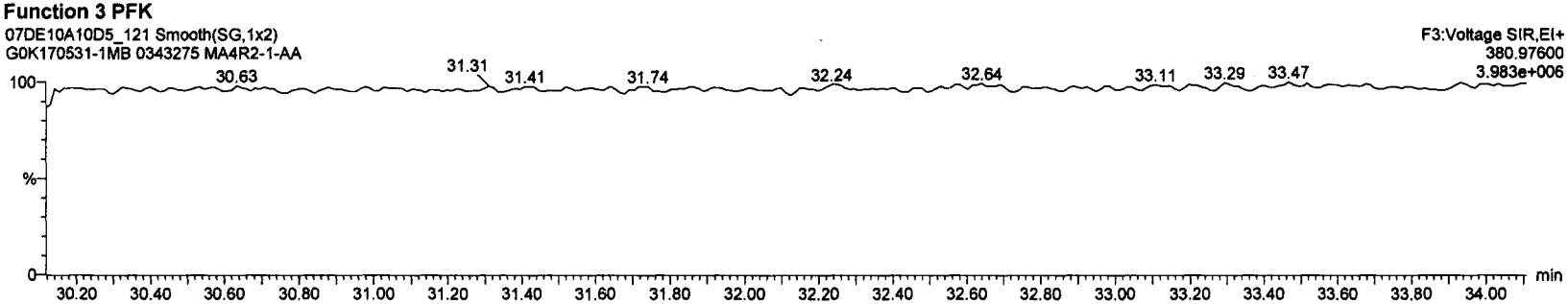
HxCDFs



HxCDF PCDPE



Function 3 PFK



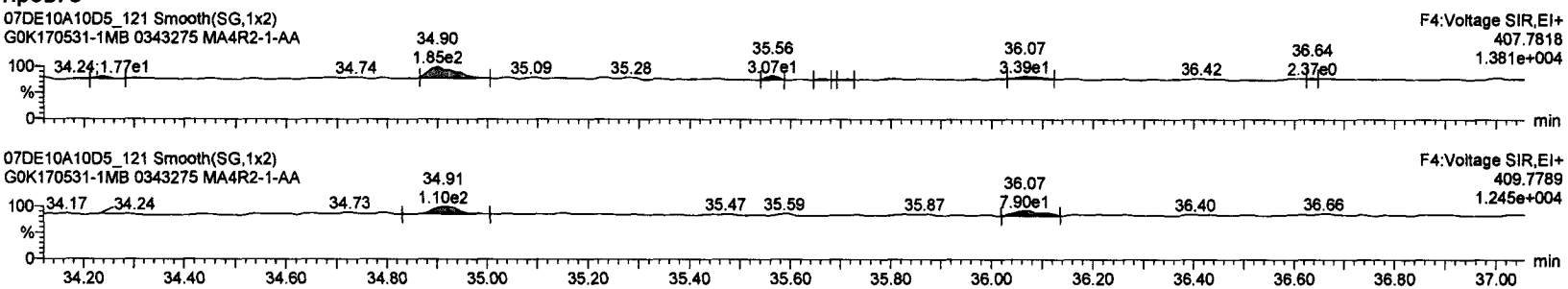
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

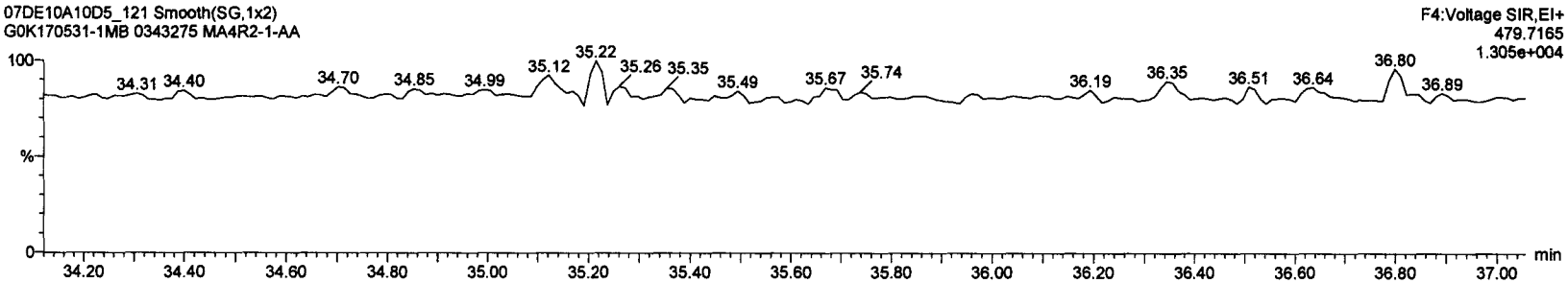
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

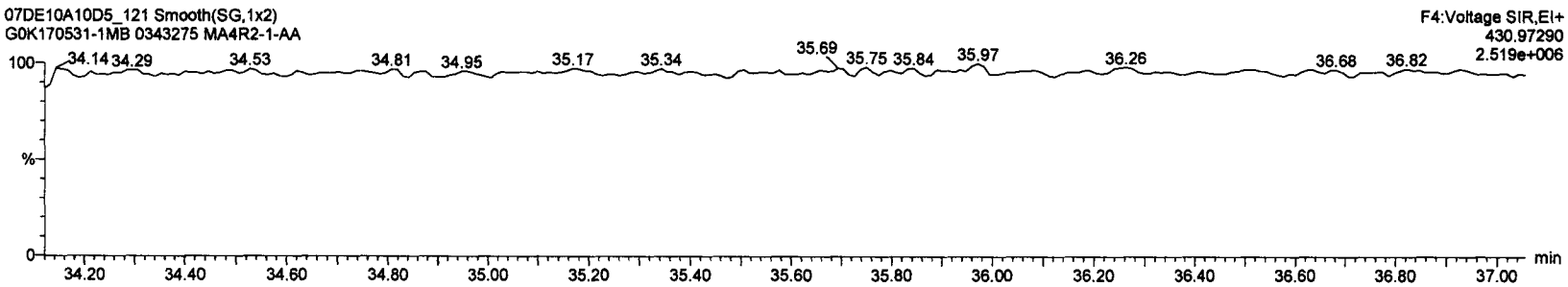
HpCDFs



HpCDF PCDPE



Function 4 PFK



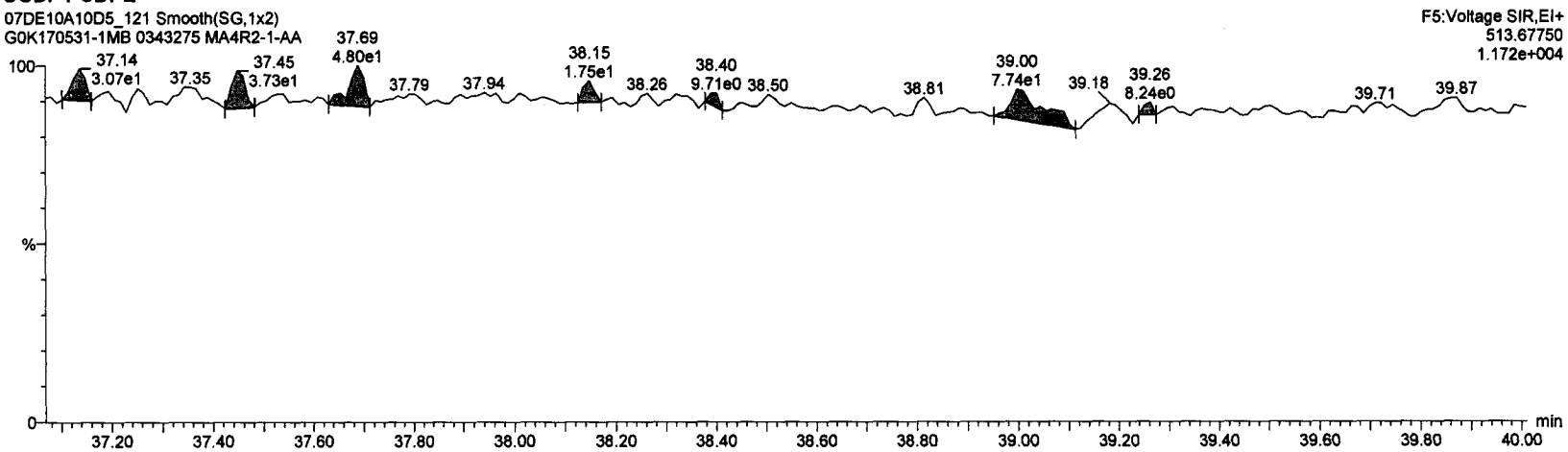
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

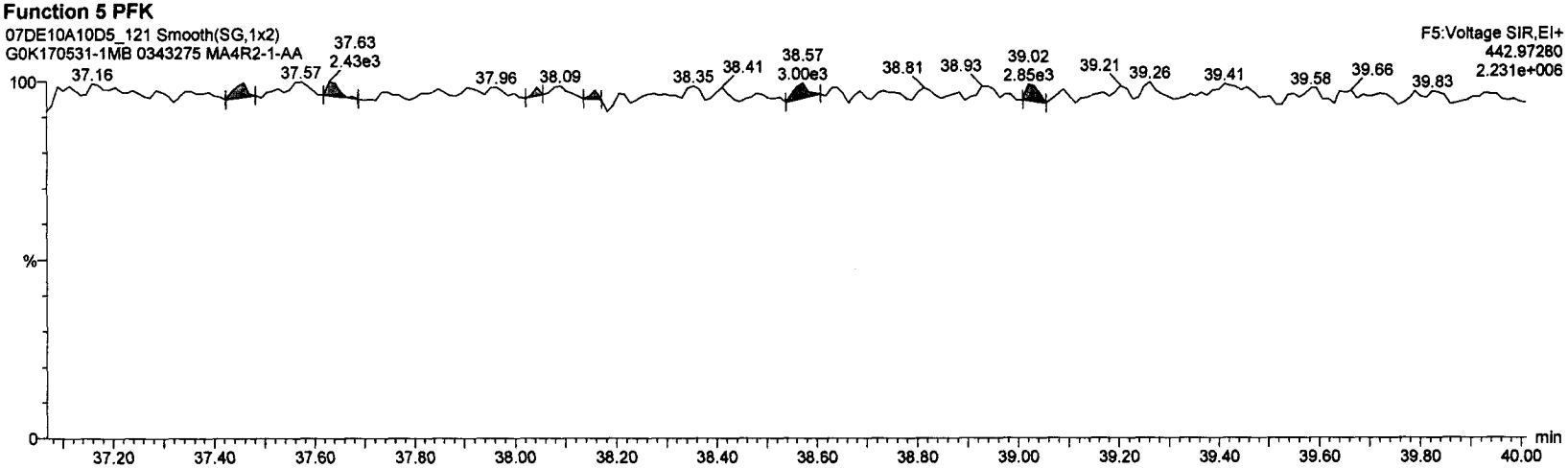
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_121, Date: 11-Dec-2010, Time: 12:04:24, ID: MA4R2-1-AA, Description: G0K170531-1MB 0343275

OCDF PCDPE



Function 5 PFK



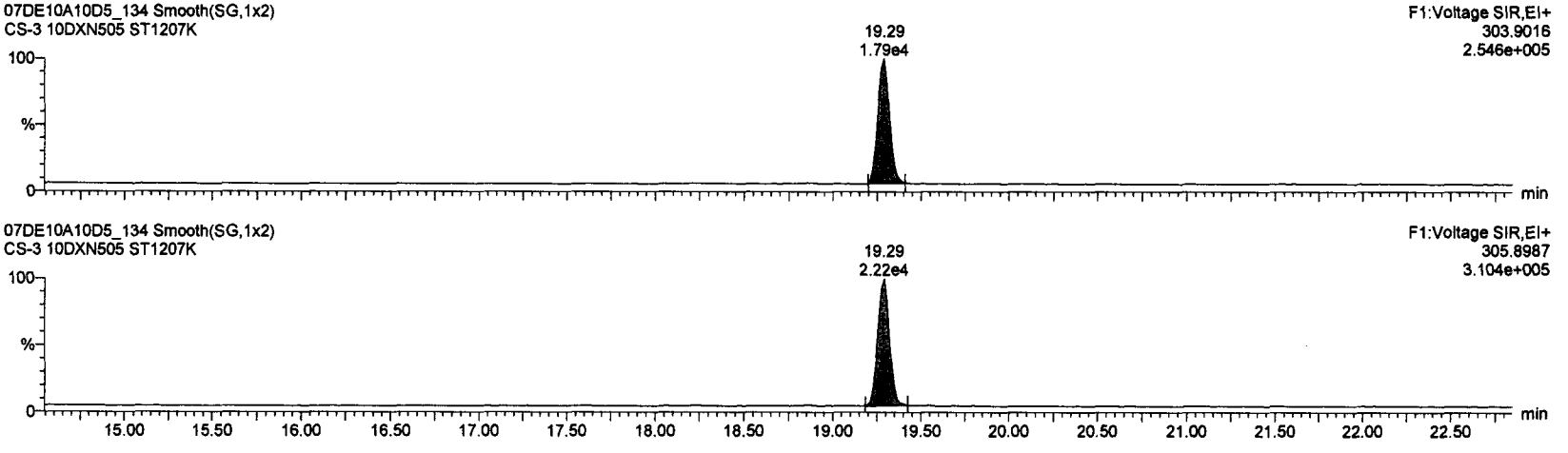
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

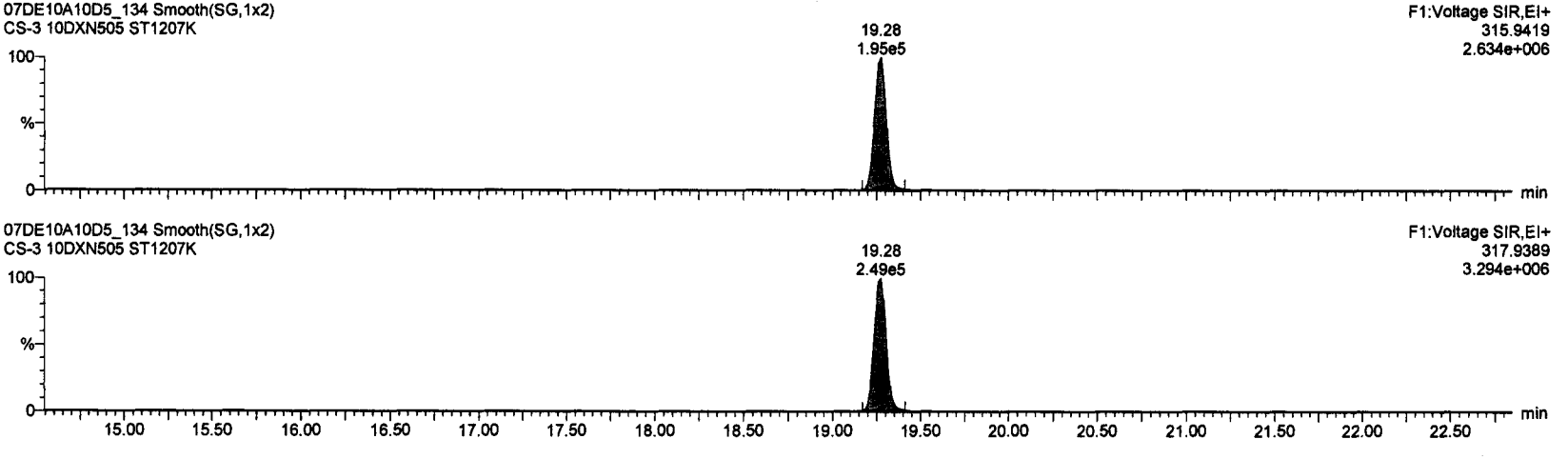
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

TCDFs



13C-TCDF



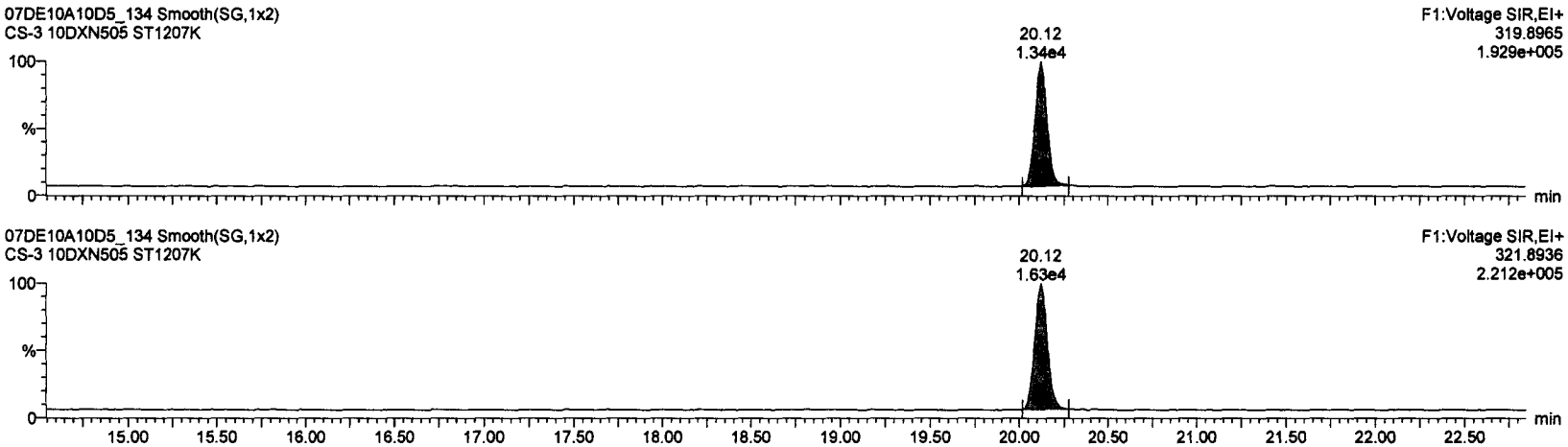
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

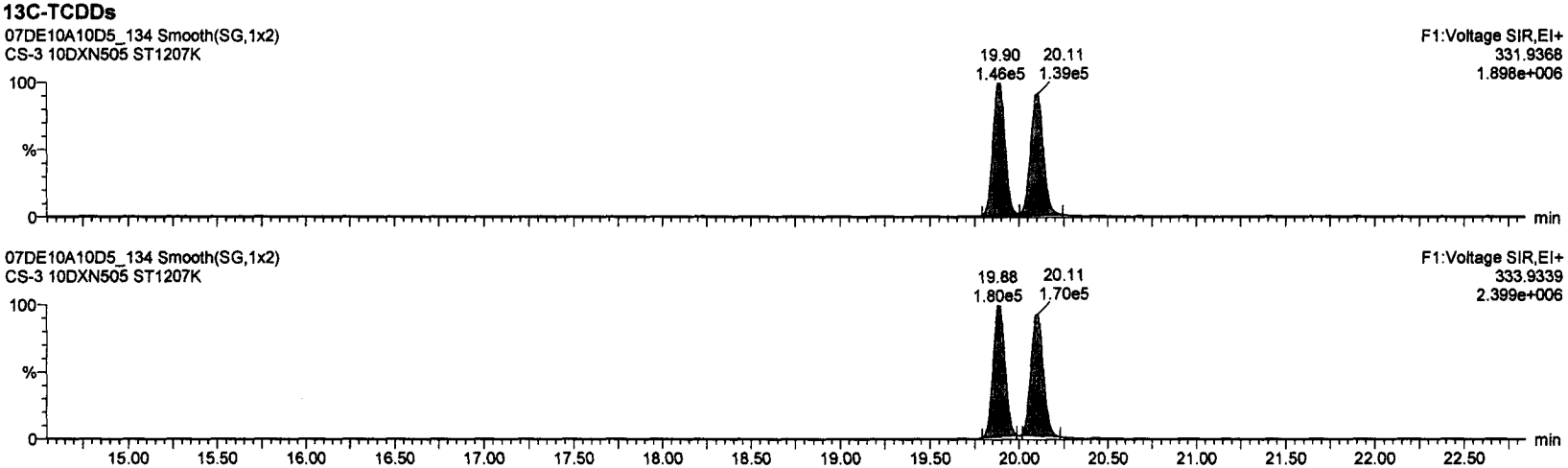
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

TCDDs



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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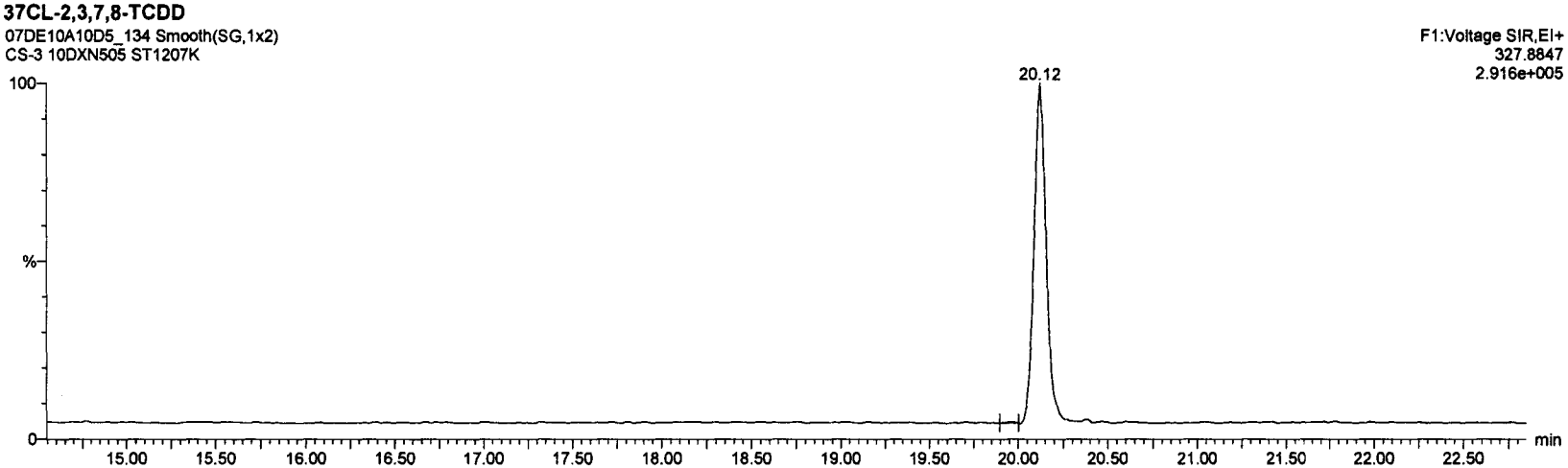
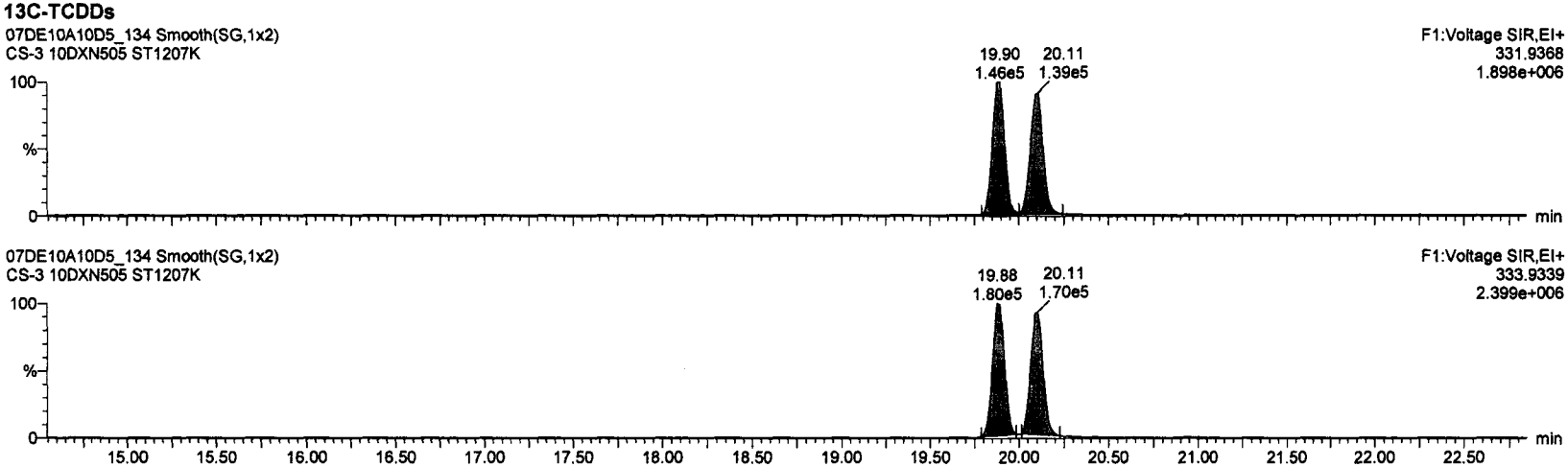
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

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



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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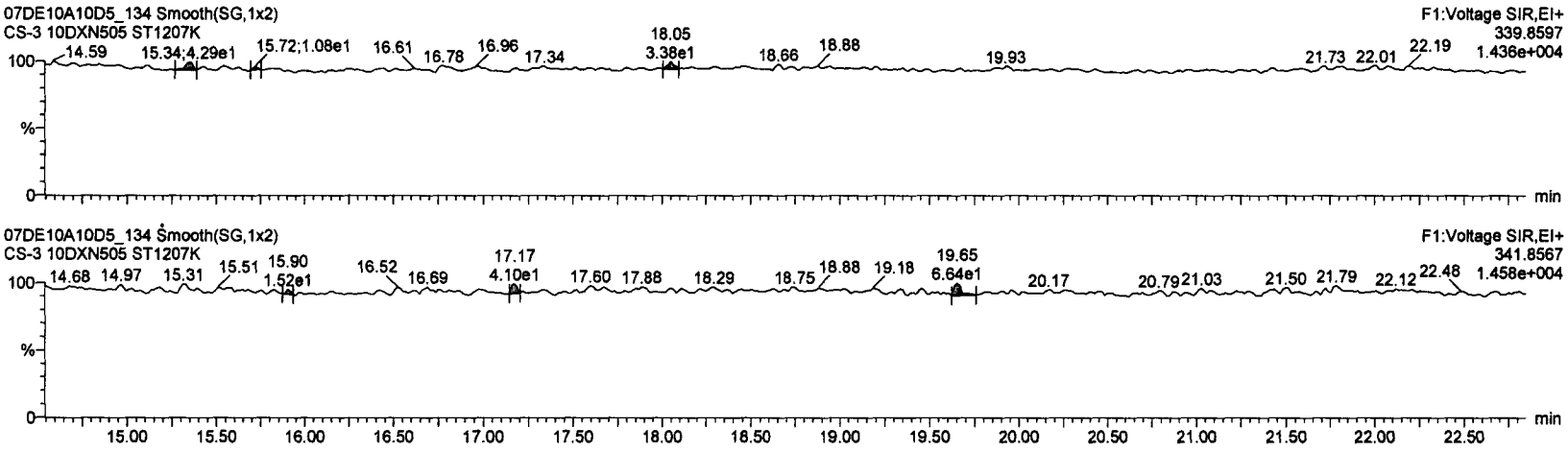
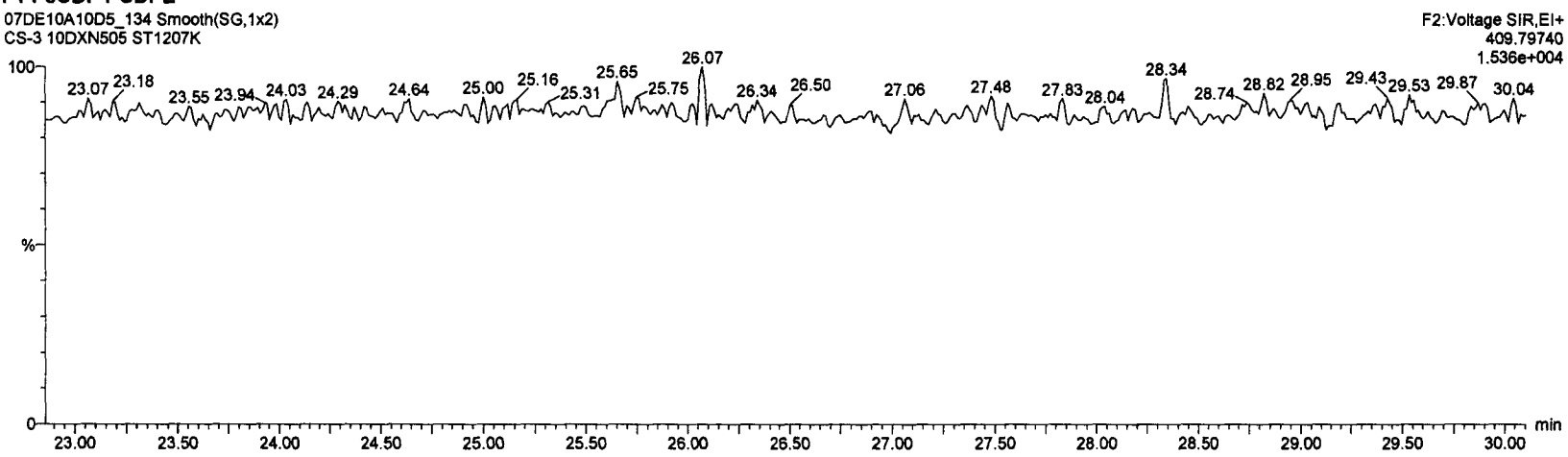
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

F1 PeCDFs



F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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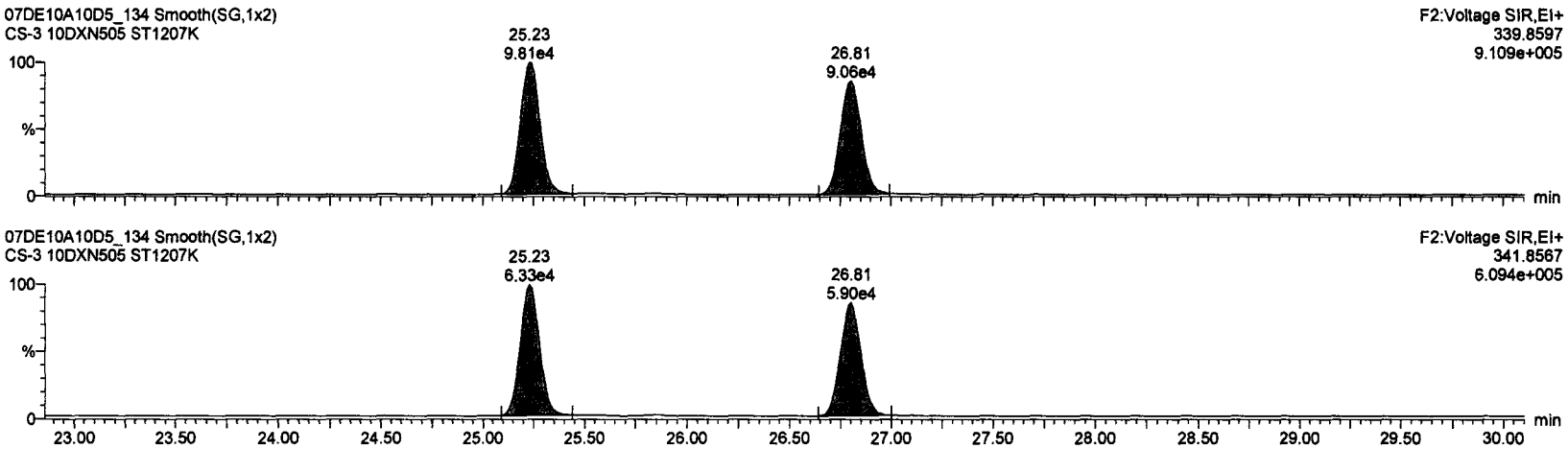
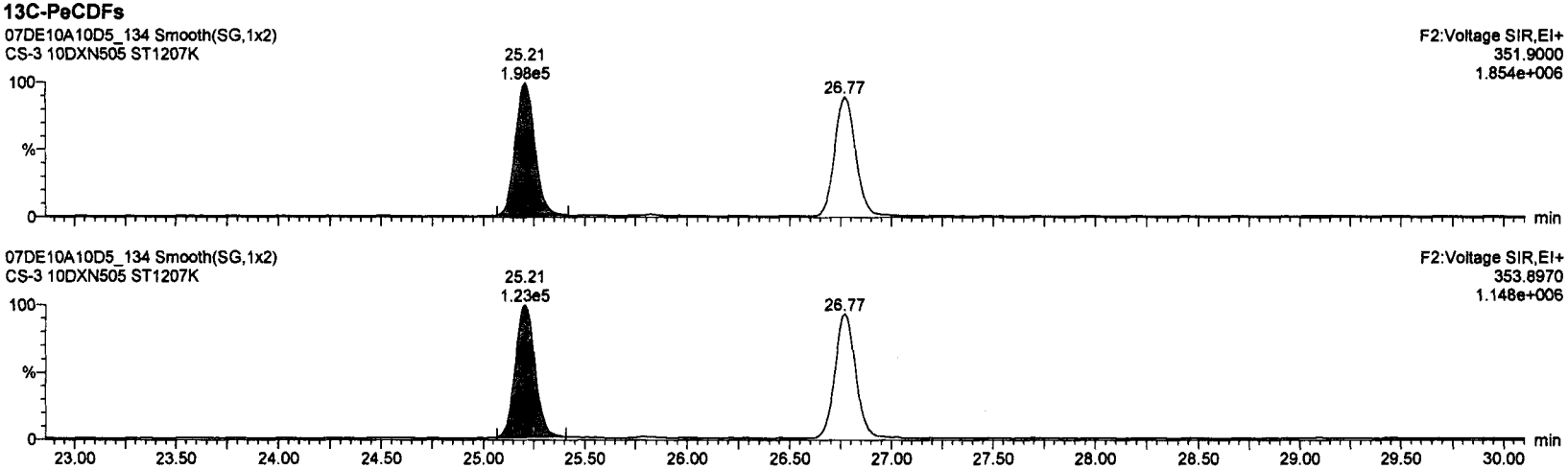
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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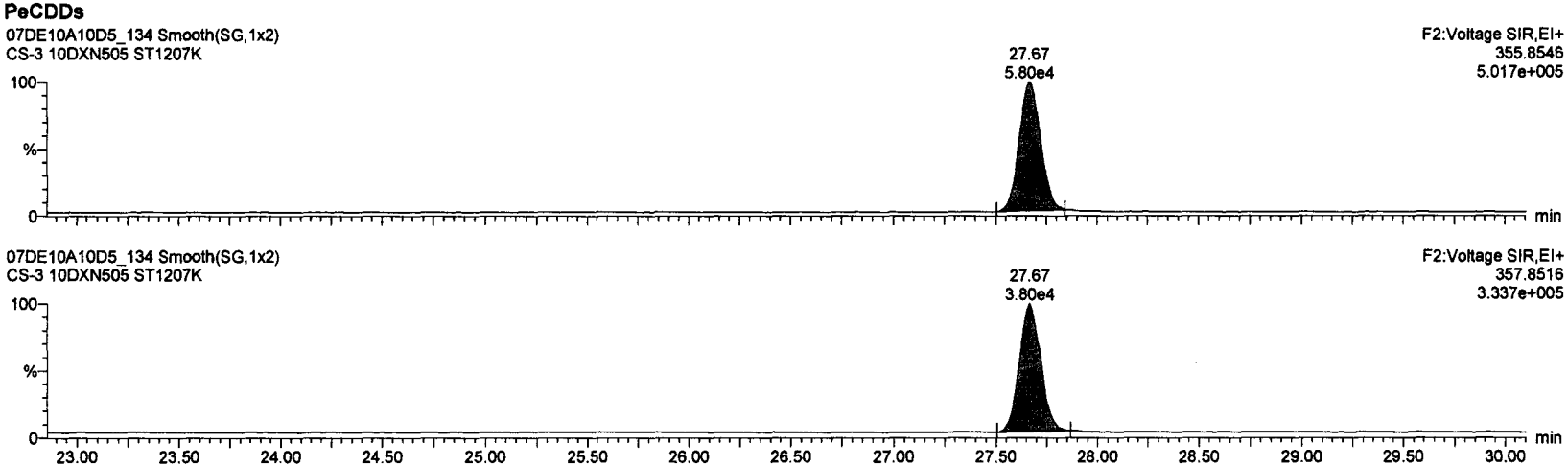
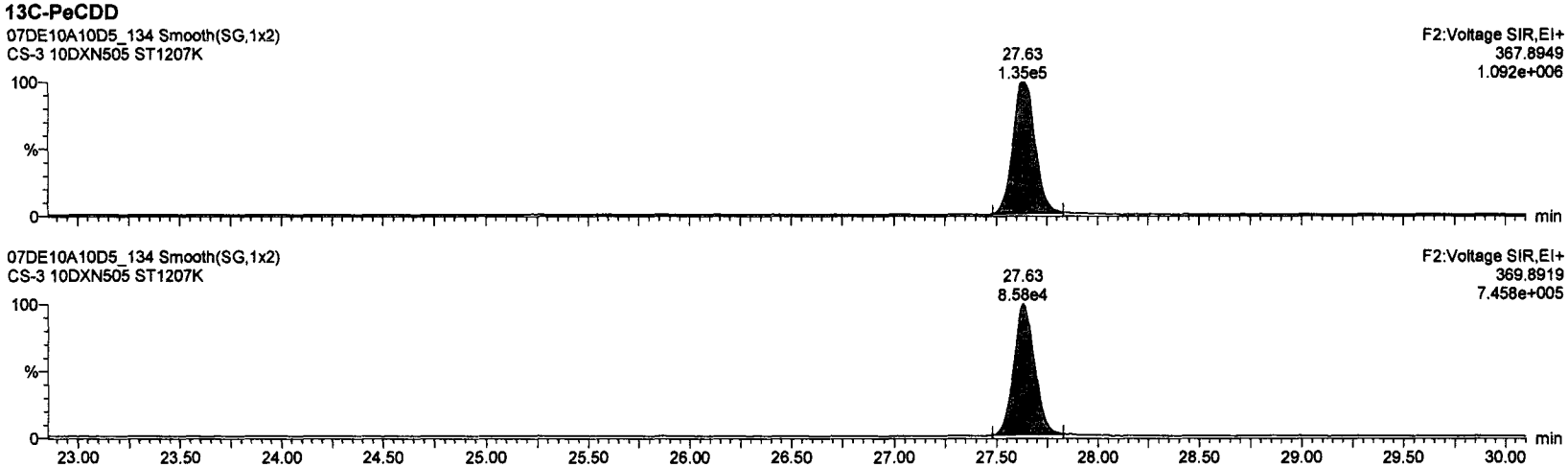
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

PeCDDs



13C-PeCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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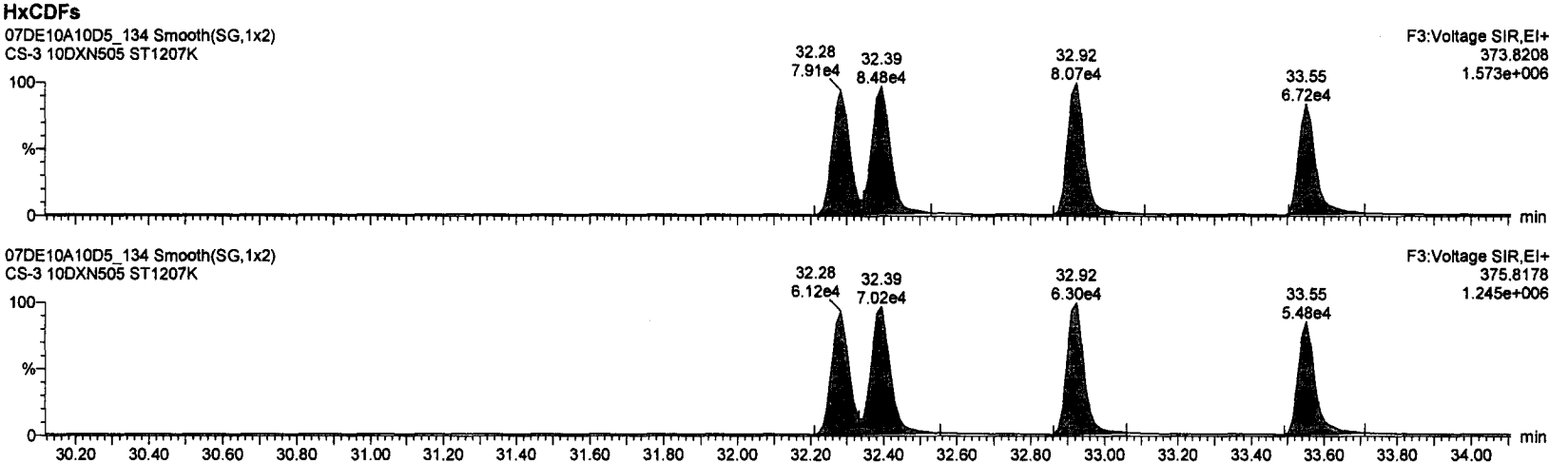
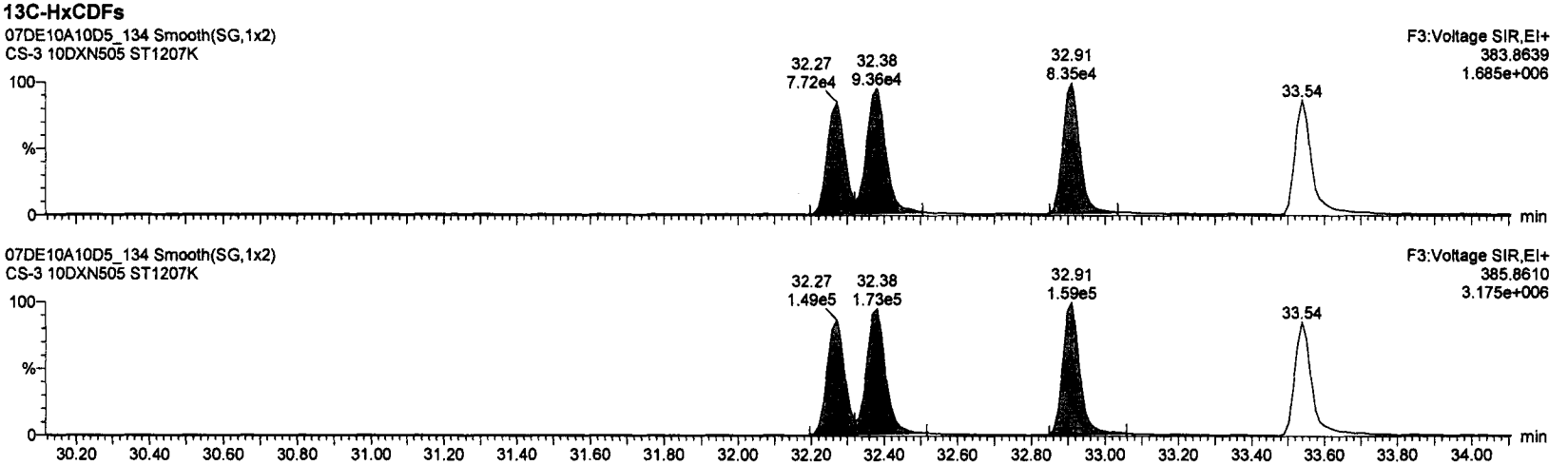
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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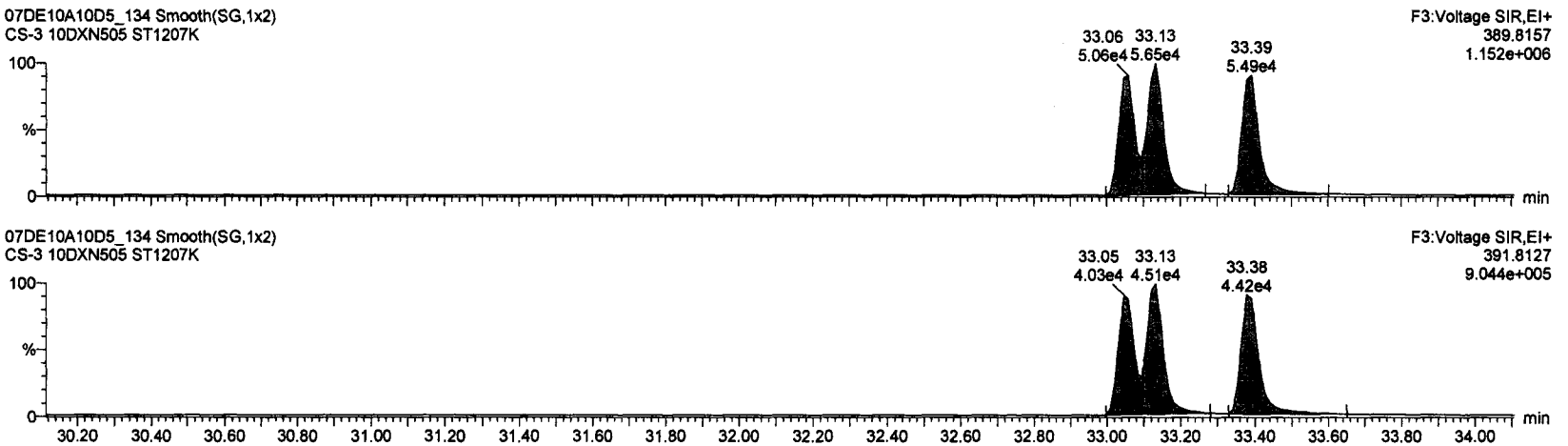
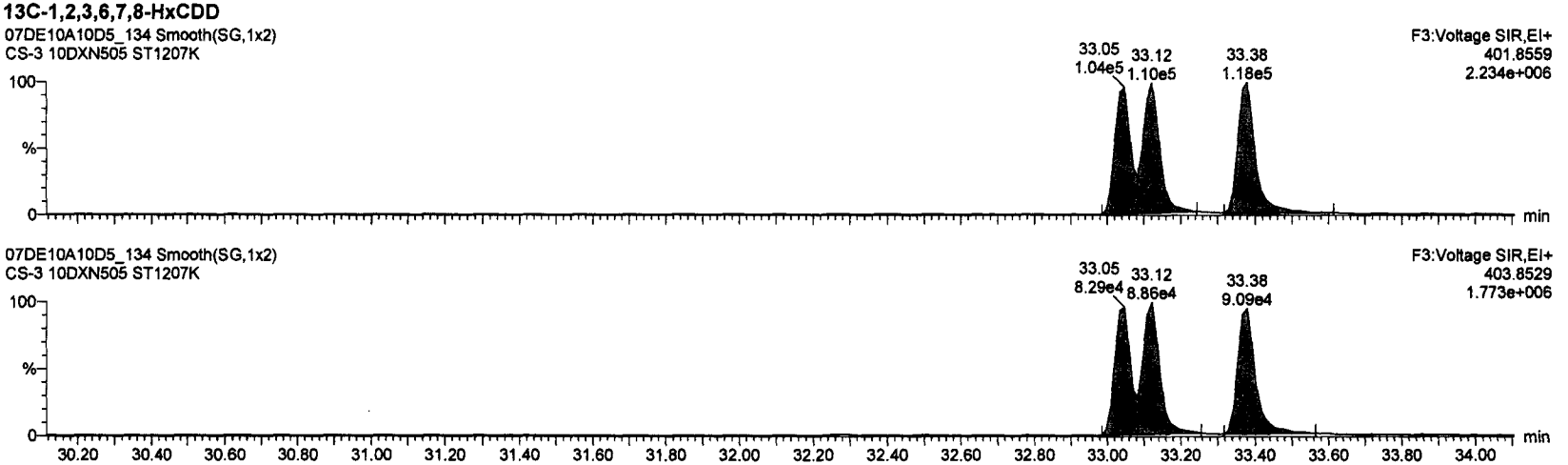
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HxCDDs



13C-1,2,3,6,7,8-HxCDD



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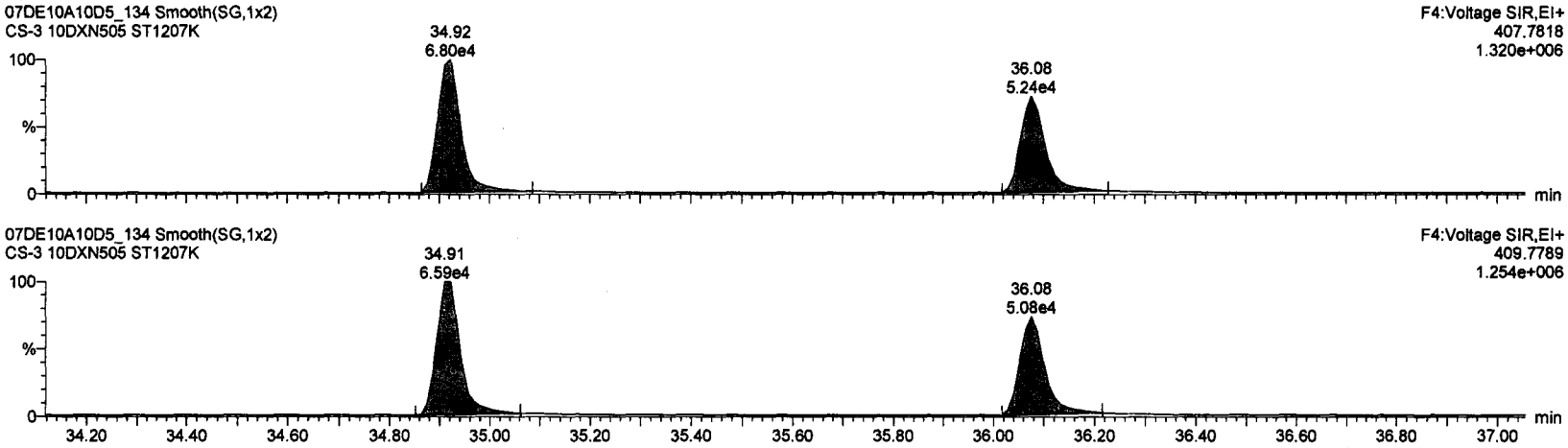
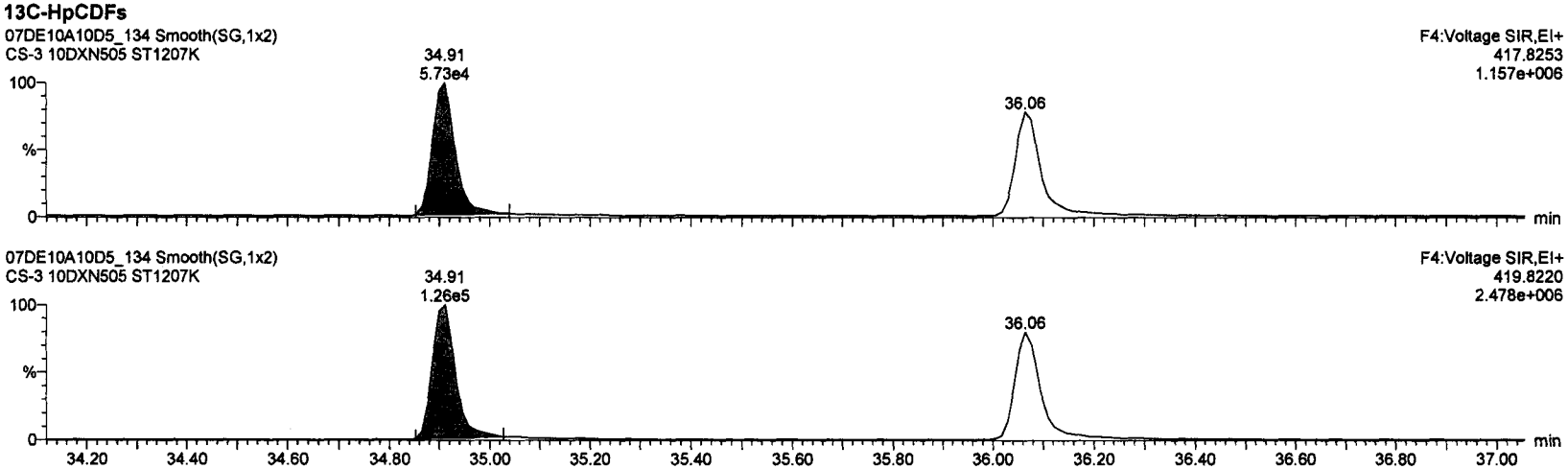
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HpCDFs



13C-HpCDFs



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Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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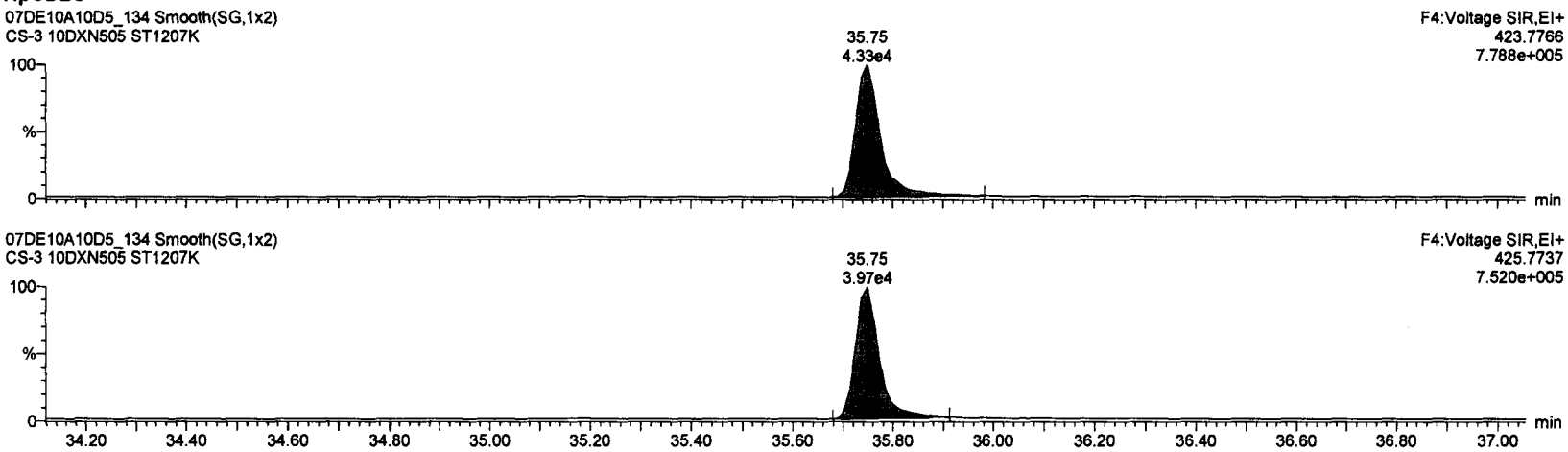
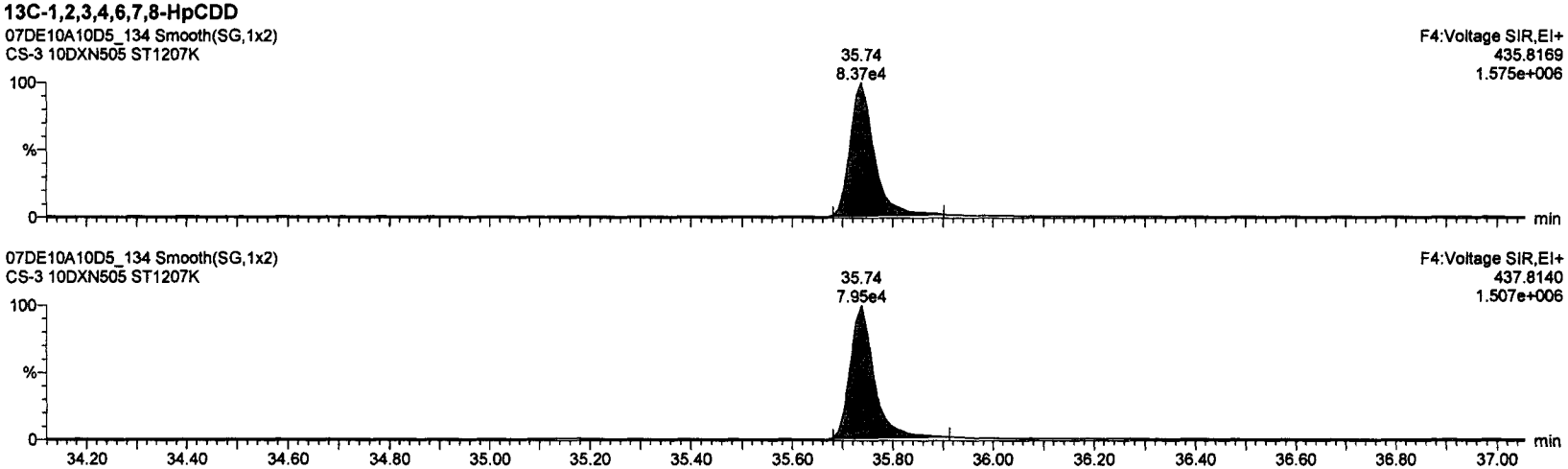
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



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Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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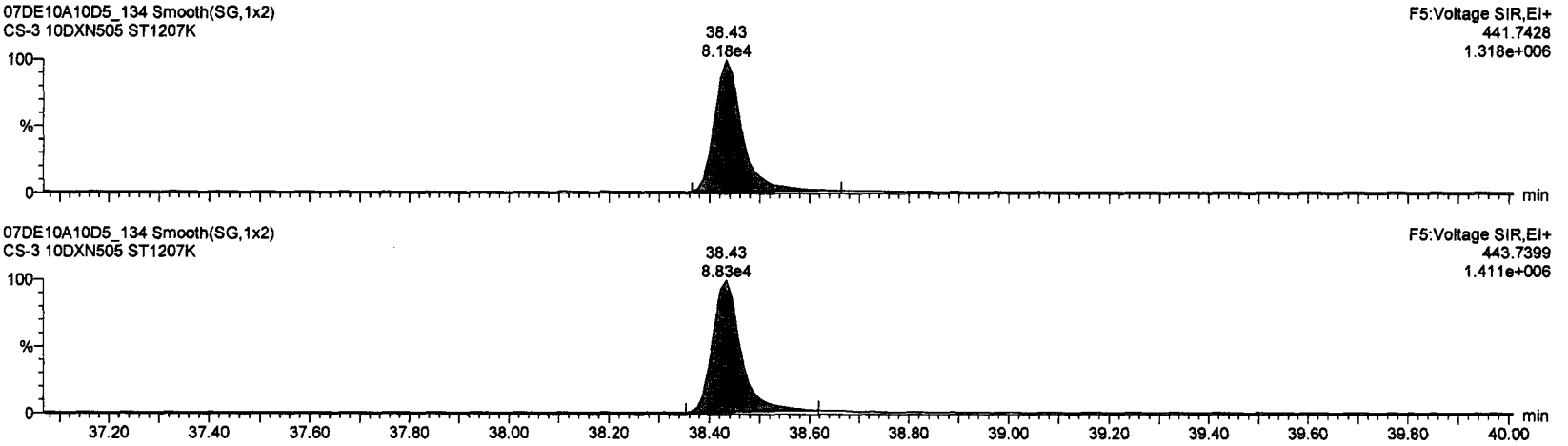
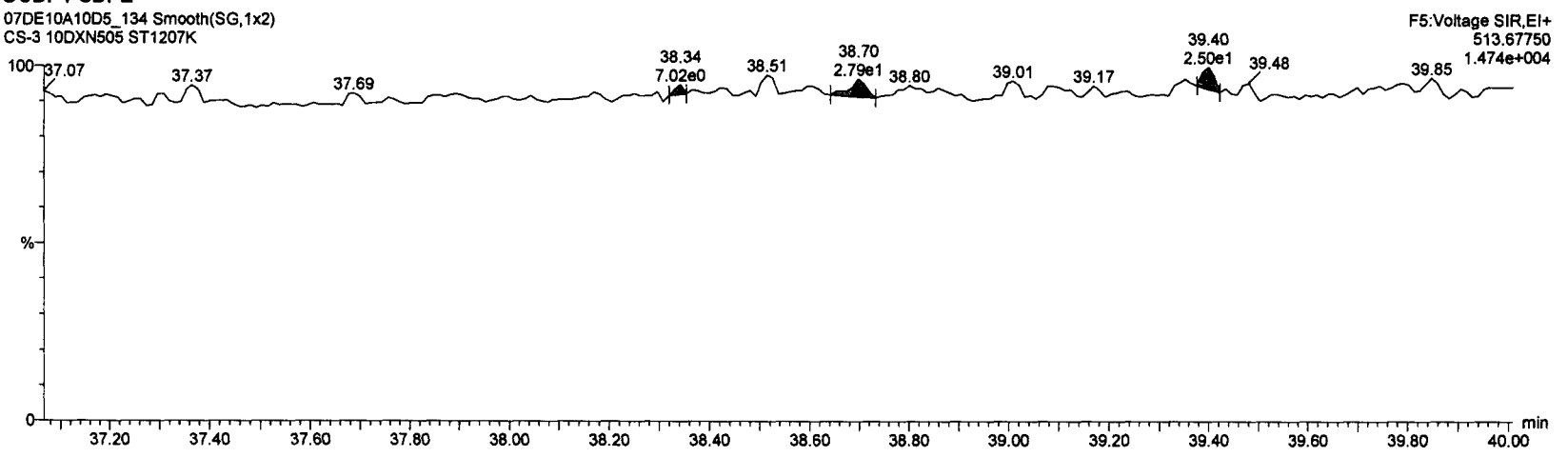
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDFs



OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
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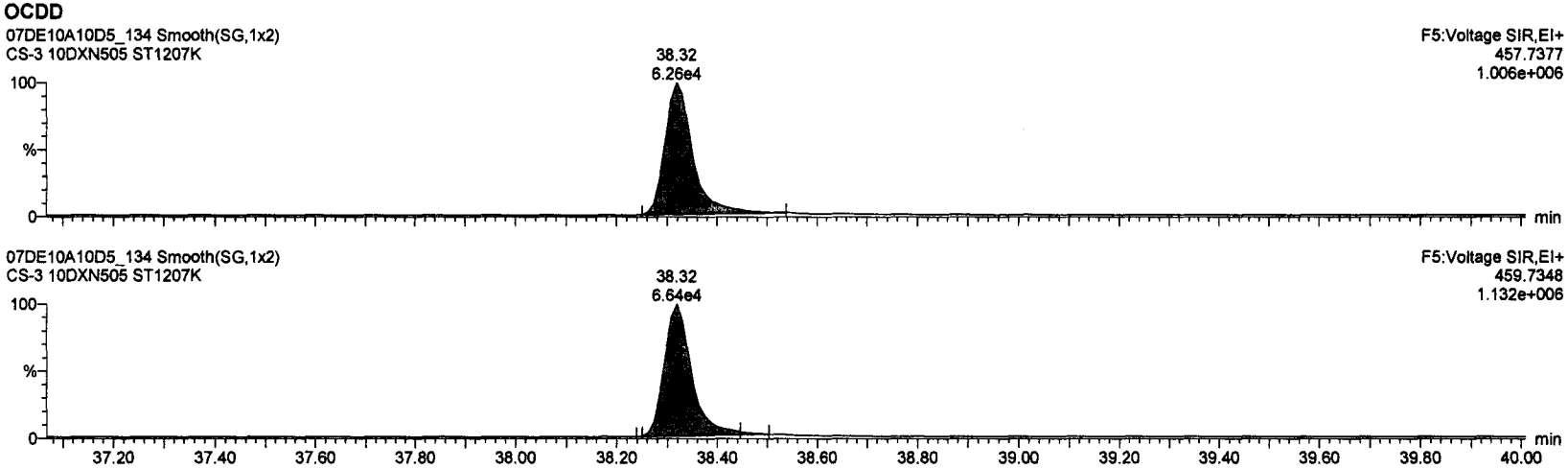
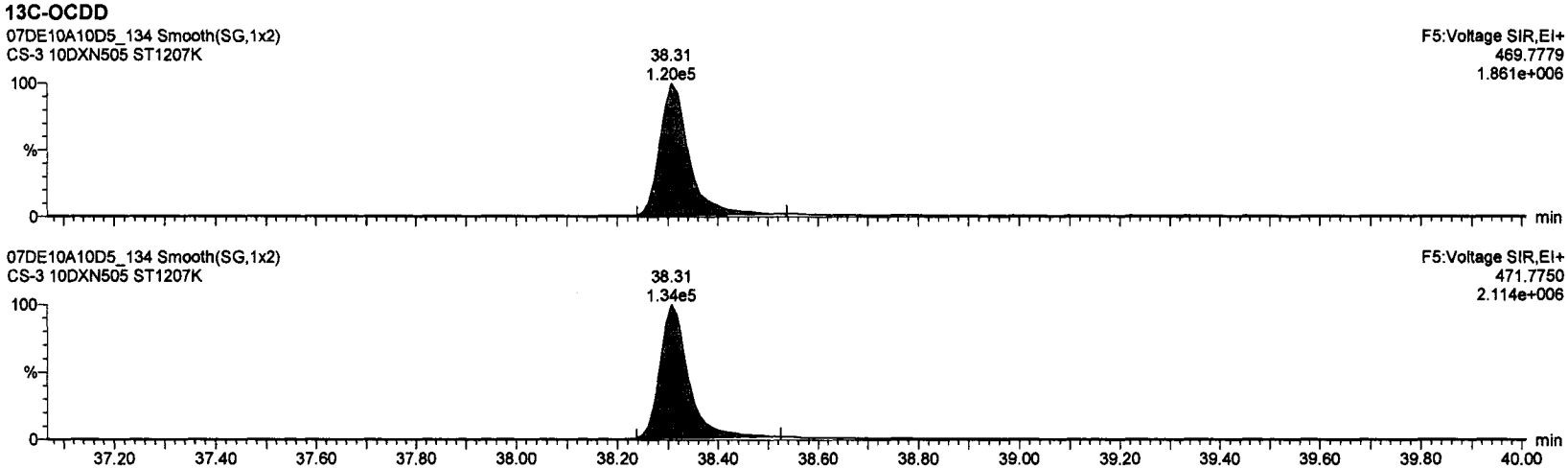
Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDD



13C-OCDD



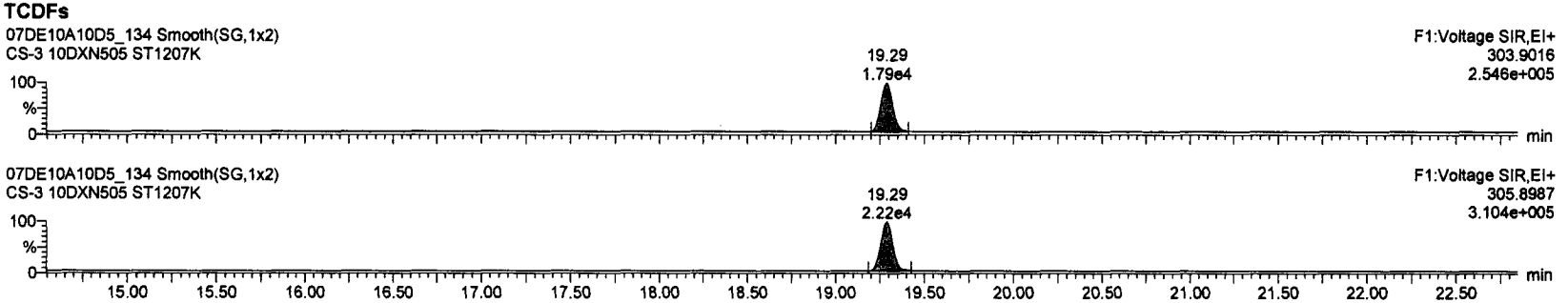
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

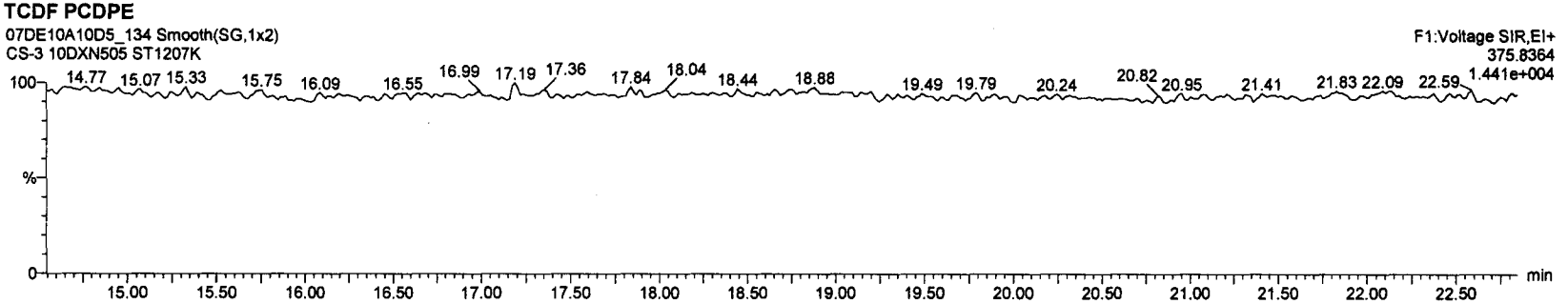
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

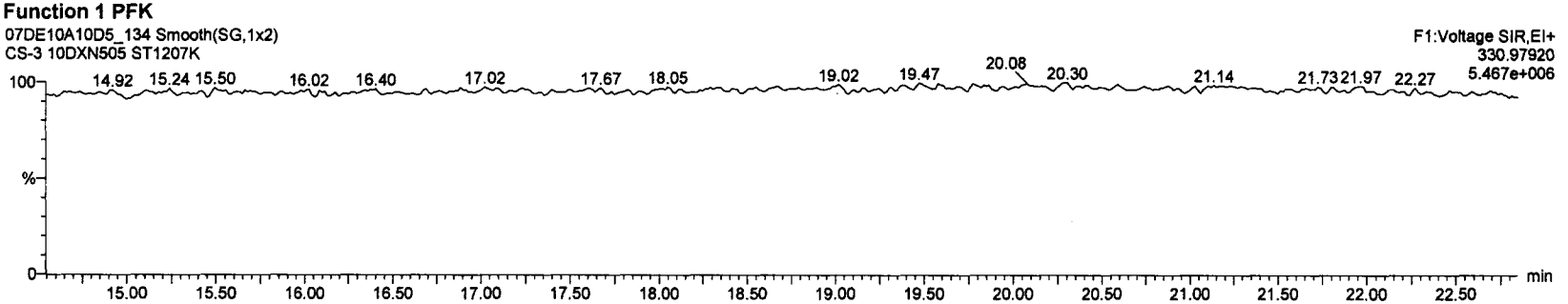
TCDFs



TCDF PCDPE



Function 1 PFK



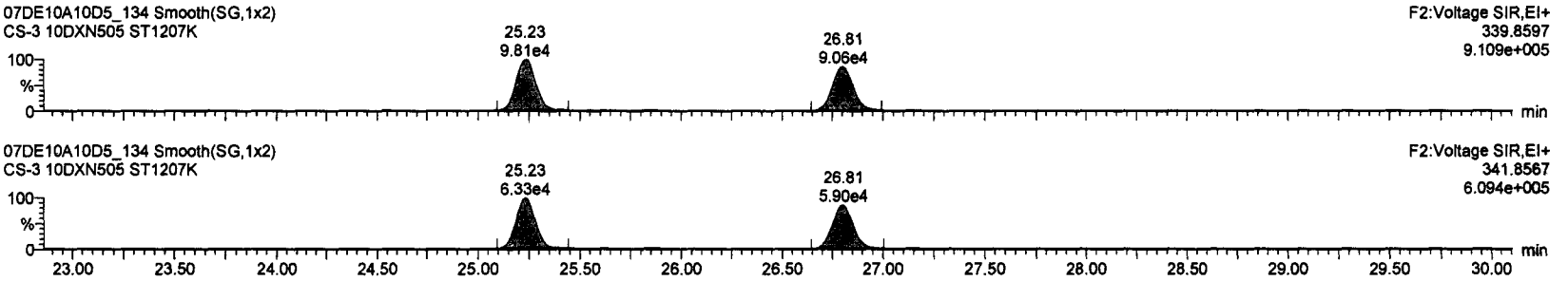
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

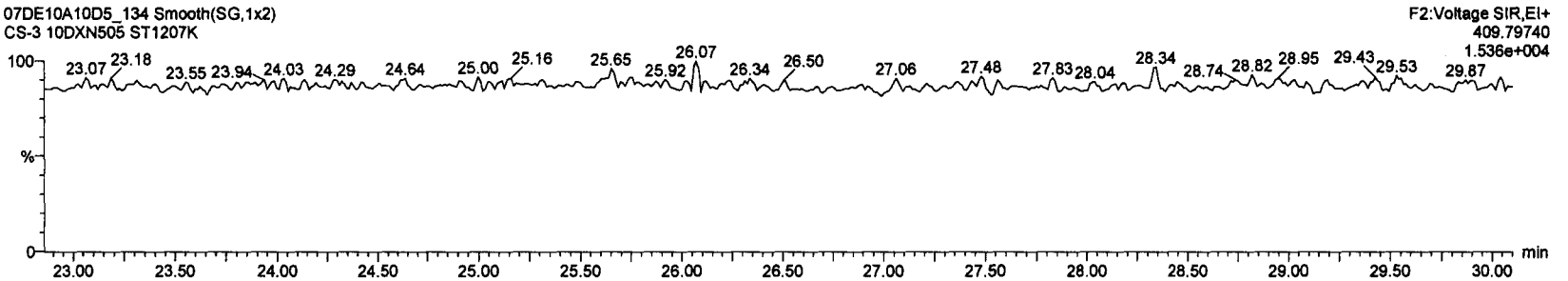
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

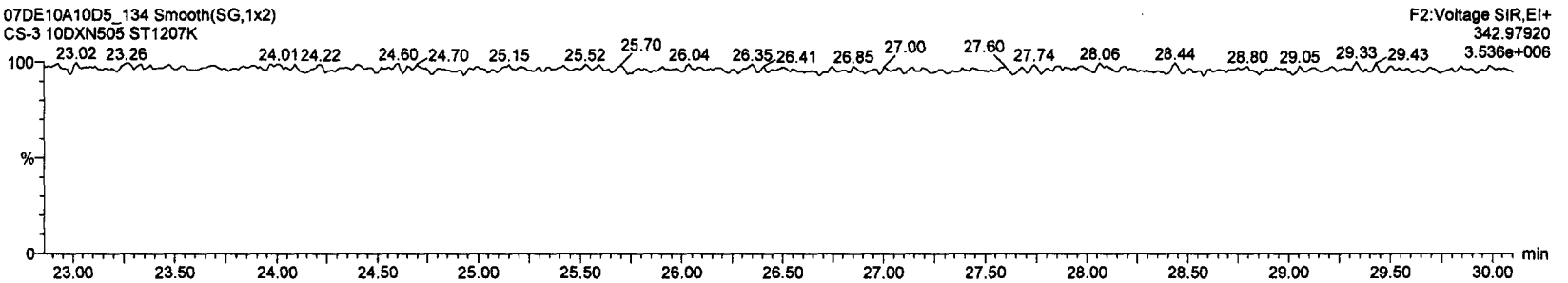
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



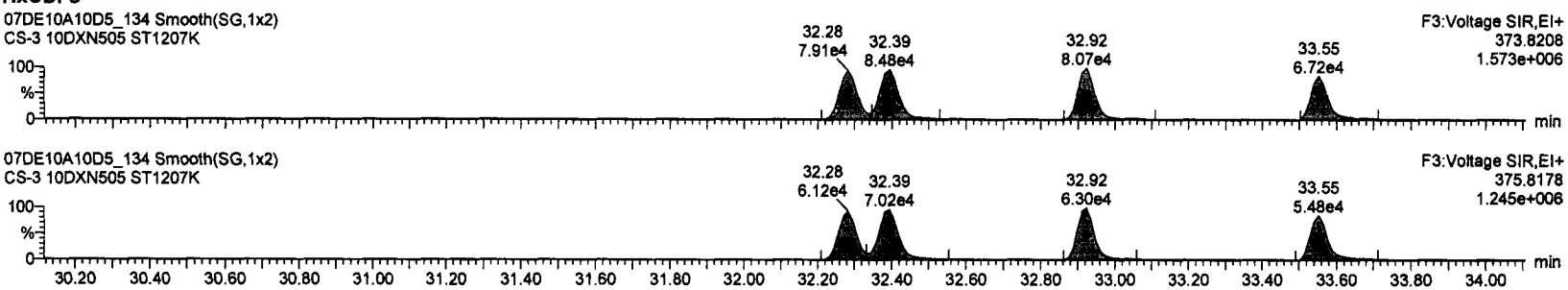
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

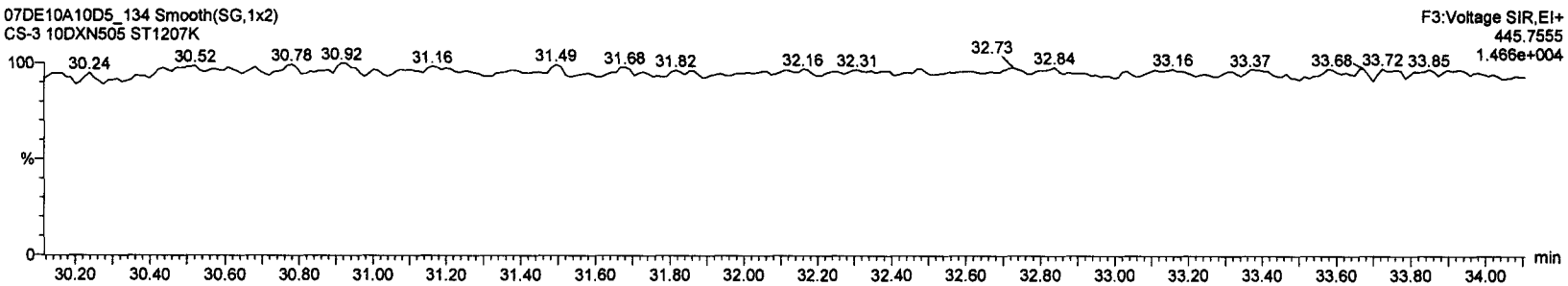
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

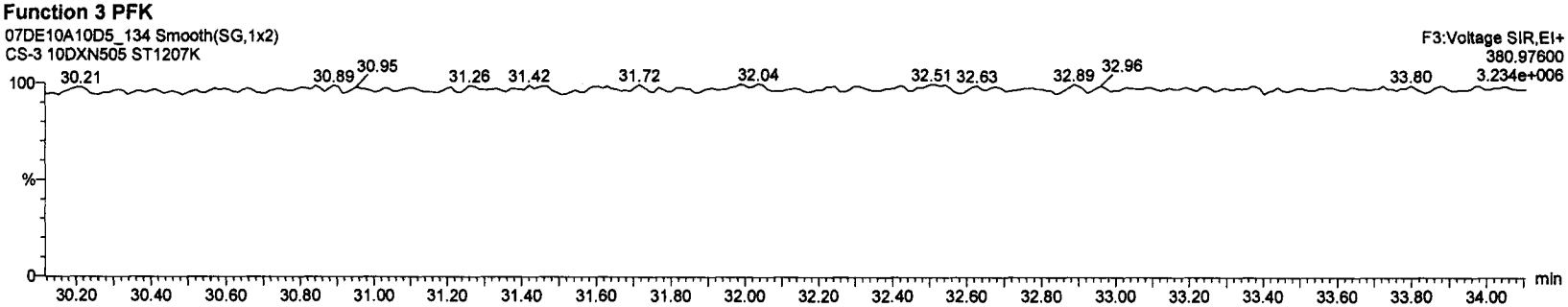
HxCDFs



HxCDF PCDPE



Function 3 PFK



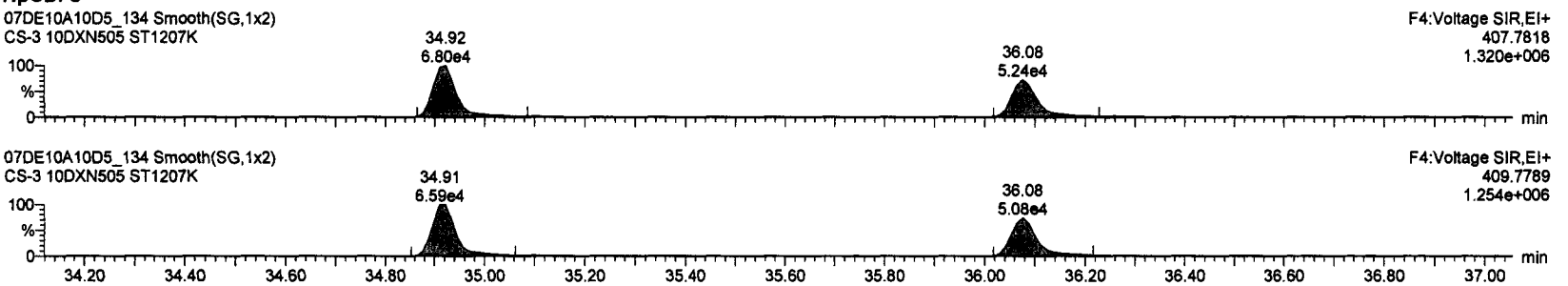
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

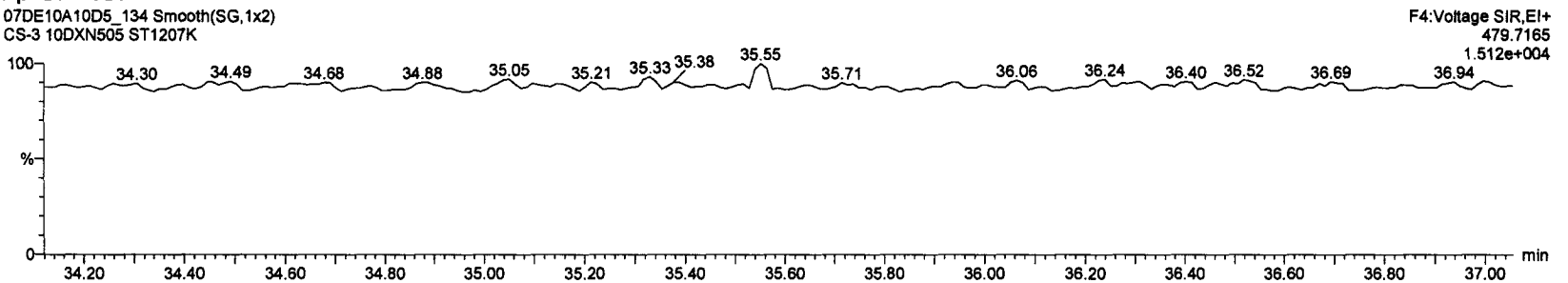
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

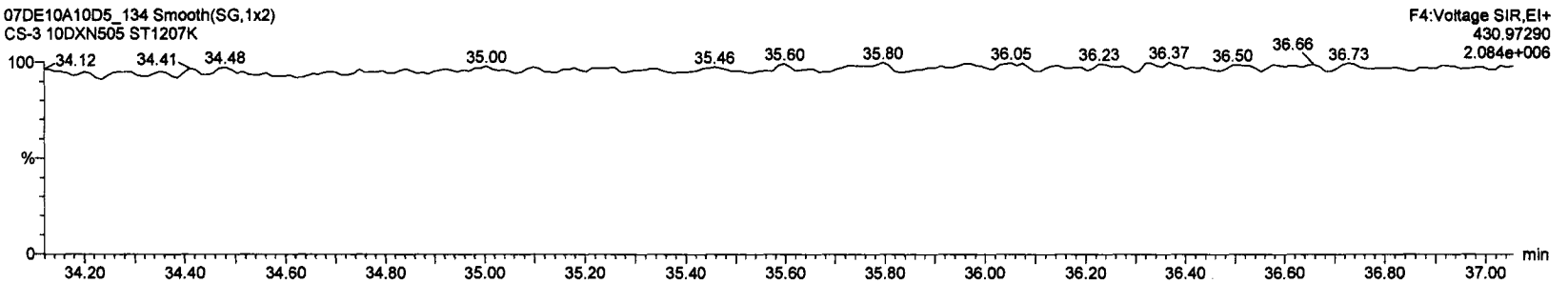
HpCDFs



HpCDF PCDPE



Function 4 PFK



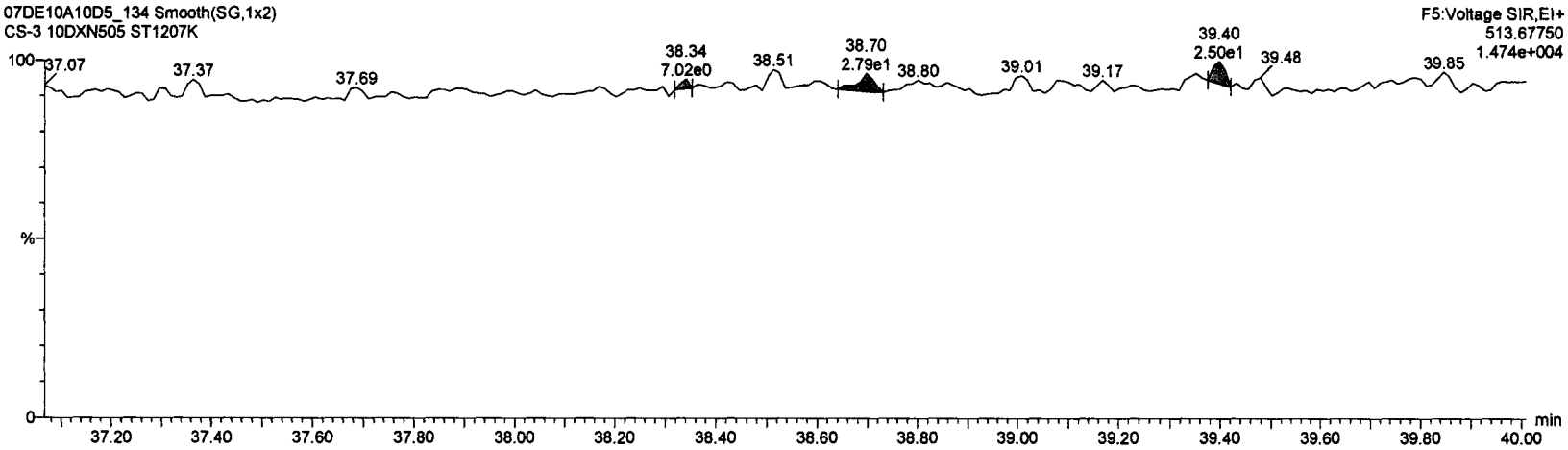
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9J.qld

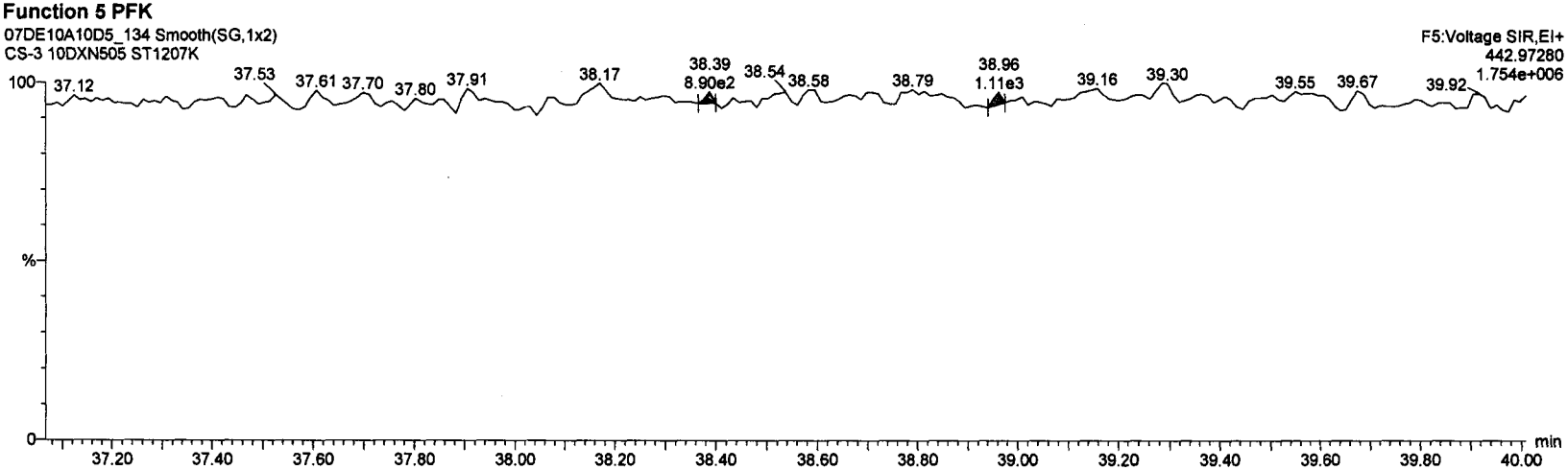
Last Altered: Monday, December 13, 2010 11:30:58 Pacific Standard Time
Printed: Monday, December 13, 2010 11:32:18 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDF PCDPE



Function 5 PFK



TestAmerica
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Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID TO9 **Associated ICAL** ICA09291010D5TO9

Column ID DB5 **Instrument ID** 10D5

STD ID ST1207K, ST1207L **STD Solution** 10DXN505

Analyzed by MG **Date Analyzed** 12/11/10, 12/12/10

Std. Pkg. By JRB **Date Std. Pkg. Assembled** 12/13/10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12/13/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA 12/15/10 MG
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (for 1613B only)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 15 Dec 2010 13:24:35
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

#	Name	Response	RT	Pred.RT	RRF M	RRF	Conc	%Dev	%Rec	Ratio	Ratio...	Mod.Date
1	13C-1,2,3,4-TCDD	325598	19.90	19.89	1.00000	1.00000	100.00	0.0	100.0	0.813	NO	
2												
3	13C-2,3,7,8-TCDF	444933	19.28	19.26	1.31203	1.36651	104.15	4.2	104.2	0.783	NO	
4	2,3,7,8-TCDF	40086	19.29	19.28	0.99766	0.90094	9.03	-9.7	90.3	0.804	NO	
5	Total TCDFs			21.44	0.99766		9.03					
6												
7	13C-2,3,7,8-TCDD	309103	20.11	20.12	0.90938	0.94934	104.39	4.4	104.4	0.813	NO	
8	2,3,7,8-TCDD	29798	20.12	20.13	1.03464	0.96401	9.32	-6.8	93.2	0.823	NO	
9	Total TCDDs			22.69	1.03464		9.32					
10												
11	37CL-2,3,7,8-TCDD	21748	20.12	20.11	0.65529	0.70358	10.74	7.4	107.4			
12												
13	13C-1,2,3,7,8-PeCDF	320919	25.21	24.95	1.02378	0.98563	96.27	-3.7	96.3	1.606	NO	
14	1,2,3,7,8-PeCDF	161390	25.23	25.21	1.09163	1.00580	46.07	-7.9	92.1	1.548	NO	
15	2,3,4,7,8-PeCDF	149681	26.81	26.74	1.06412	0.93283	43.83	-12.3	87.7	1.536	NO	
16	Total F2 PeCDFs			34.47	1.07787		89.90					
17	Total F1 PeCDFs			36.56	1.07787							
18												
19	13C-1,2,3,7,8-PeCDD	220613	27.63	27.32	0.73445	0.67756	92.25	-7.7	92.3	1.570	NO	
20	1,2,3,7,8-PeCDD	95990	27.67	27.63	0.96030	0.87021	45.31	-9.4	90.6	1.524	NO	
21	Total PeCDDs			31.10	0.96030		45.31					
22												
23	13C-1,2,3,7,8,9-HxCDD	208538	33.38	33.27	1.00000	1.00000	100.00	0.0	100.0	1.295	NO	
24												
25	13C-1,2,3,4,7,8-HxCDF	225924	32.27	32.24	1.04941	1.08337	103.24	3.2	103.2	0.519	NO	
26	1,2,3,4,7,8-HxCDF	140338	32.28	32.27	1.31260	1.24235	47.32	-5.4	94.6	1.292	NO	
27	1,2,3,6,7,8-HxCDF	155029	32.39	32.39	1.43801	1.37240	47.72	-4.6	95.4	1.209	NO	
28	2,3,4,6,7,8-HxCDF	143693	32.92	32.93	1.35233	1.27205	47.03	-5.9	94.1	1.280	NO	
29	1,2,3,7,8,9-HxCDF	121973	33.55	33.57	1.19752	1.07977	45.08	-9.8	90.2	1.226	NO	
30	Total HxCDFs			0.00	1.32511		187.16					
31												
32	13C-1,2,3,6,7,8-HxCDD	199075	33.12	33.11	0.90452	0.95462	105.54	5.5	105.5	1.246	NO	
33	1,2,3,4,7,8-HxCDD	90939	33.06	33.05	0.98150	0.91362	46.54	-6.9	93.1	1.257	NO	
34	1,2,3,6,7,8-HxCDD	101656	33.13	33.12	1.09425	1.02128	46.67	-6.7	93.3	1.254	NO	
35	1,2,3,7,8,9-HxCDD	99055	33.39	33.39	1.05784	0.99516	47.04	-5.9	94.1	1.241	NO	
36	Total HxCDDs			0.00	1.04453		140.24					
37												
38	13C-1,2,3,4,6,7,8-HpCDF	183784	34.91	34.92	0.95391	0.88130	92.39	-7.6	92.4	0.453	NO	
39	1,2,3,4,6,7,8-HpCDF	133887	34.92	34.91	1.46280	1.45700	49.80	-0.4	99.6	1.032	NO	
40	1,2,3,4,7,8,9-HpCDF	103210	36.08	36.08	1.23081	1.12316	45.63	-8.7	91.3	1.032	NO	
41	Total HpCDFs			0.00	1.34680		95.43					
42												
43	13C-1,2,3,4,6,7,8-HpCDD	163209	35.74	35.76	0.84836	0.78263	92.25	-7.7	92.3	1.053	NO	
44	1,2,3,4,6,7,8-HpCDD	83068	35.75	35.74	1.05453	1.01794	48.27	-3.5	96.5	1.090	NO	
45	Total HpCDDs			0.09	1.05453		48.27					

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

#	Name	Response	RT	Pred RT	RRF M	RRF	Conc	%Dev	%Rec	Ratio	Mask	Mod Date
46												
47	13C-OCDD	254005	38.31	38.36	0.67464	0.60902	180.54	-9.7	90.3	0.902	NO	
48	OCDF	170065	38.43	38.43	1.48610	1.33906	90.11	-9.9	90.1	0.926	NO	
49	OCDD	132683	38.32	38.31	1.14618	1.04472	91.15	-8.9	91.1	0.894	NO	
50												
51												
52	Function 1 PFK			38.25								
53	Function 2 PFK			38.25								
54	Function 3 PFK			38.25								
55	Function 4 PFK			38.25								
56	Function 5 PFK			0.00								
57	TCDF PCDPE			38.25								
58	F1 PeCDF PCDPE			38.25								
59	F2 PeCDF PCDPE			38.25								
60	HXCDF PCDPE			38.25								
61	HPCDF PCDPE			38.25								
62	OCDF PCDPE			0.00								

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

#	Name	Response	RT	Pred RT	RRF M	RRF	Conc	%Dev	%Rec	Ratio	Ratio ...	Mod Date
1	13C-1,2,3,4-TCDD	341276	19.88	19.87	1.00000	1.00000	100.00	0.0	100.0	0.783	NO	
2												
3	13C-2,3,7,8-TCDF	451783	19.26	19.26	1.31203	1.32381	100.90	0.9	100.9	0.788	NO	
4	2,3,7,8-TCDF	41752	19.28	19.26	0.99766	0.92417	9.26	-7.4	92.6	0.786	NO	
5	Total TCDFs			21.44	0.99766		9.26					
6												
7	13C-2,3,7,8-TCDD	326192	20.09	20.10	0.90938	0.95580	105.10	5.1	105.1	0.779	NO	
8	2,3,7,8-TCDD	30788	20.11	20.11	1.03464	0.94385	9.12	-8.8	91.2	0.767	NO	
9	Total TCDDs			22.69	1.03464		9.12					
10												
11	37CL-2,3,7,8-TCDD	22834	20.11	20.09	0.65529	0.70001	10.68	6.8	106.8			
12												
13	13C-1,2,3,7,8-PeCDF	331383	25.20	24.93	1.02378	0.97101	94.85	-5.2	94.8	1.566	NO	
14	1,2,3,7,8-PeCDF	166713	25.22	25.20	1.09163	1.00616	46.09	-7.8	92.2	1.579	NO	
15	2,3,4,7,8-PeCDF	159139	26.79	26.73	1.06412	0.96046	45.13	-9.7	90.3	1.569	NO	
16	Total F2 PeCDFs			34.47	1.07787		91.21					
17	Total F1 PeCDFs			36.56	1.07787		0.05					
18												
19	13C-1,2,3,7,8-PeCDD	232690	27.62	27.30	0.73445	0.68182	92.83	-7.2	92.8	1.625	NO	
20	1,2,3,7,8-PeCDD	102814	27.66	27.62	0.96030	0.88370	46.01	-8.0	92.0	1.531	NO	
21	Total PeCDDs			31.10	0.96030		46.01					
22												
23	13C-1,2,3,7,8,9-HxCDD	227779	33.37	33.27	1.00000	1.00000	100.00	0.0	100.0	1.190	NO	
24												
25	13C-1,2,3,4,7,8-HxCDF	251224	32.26	32.23	1.04941	1.10293	105.10	5.1	105.1	0.512	NO	
26	1,2,3,4,7,8-HxCDF	150300	32.28	32.26	1.31260	1.19654	45.58	-8.8	91.2	1.248	NO	
27	1,2,3,6,7,8-HxCDF	162482	32.39	32.38	1.43801	1.29353	44.98	-10.0	90.0	1.275	NO	
28	2,3,4,6,7,8-HxCDF	154880	32.92	32.92	1.35233	1.23300	45.59	-8.8	91.2	1.229	NO	
29	1,2,3,7,8,9-HxCDF	136274	33.55	33.56	1.19752	1.08488	45.30	-9.4	90.6	1.223	NO	
30	Total HxCDFs			0.00	1.32511		181.44					
31												
32	13C-1,2,3,6,7,8-HxCDD	225994	33.12	33.10	0.90452	0.99216	109.69	9.7	109.7	1.237	NO	
33	1,2,3,4,7,8-HxCDD	95022	33.05	33.05	0.98150	0.84093	42.84	-14.3	85.7	1.226	NO	
34	1,2,3,6,7,8-HxCDD	115903	33.13	33.12	1.09425	1.02572	46.87	-6.3	93.7	1.235	NO	
35	1,2,3,7,8,9-HxCDD	106014	33.38	33.39	1.05784	0.93820	44.35	-11.3	88.7	1.260	NO	
36	Total HxCDDs			0.00	1.04453		134.05					
37												
38	13C-1,2,3,4,6,7,8-HpCDF	220366	34.90	34.91	0.95391	0.96745	101.42	1.4	101.4	0.425	NO	
39	1,2,3,4,6,7,8-HpCDF	151356	34.91	34.90	1.46280	1.37368	46.95	-6.1	93.9	1.051	NO	
40	1,2,3,4,7,8,9-HpCDF	121495	36.08	36.07	1.23081	1.10267	44.79	-10.4	89.6	1.011	NO	
41	Total HpCDFs			0.00	1.34680		91.75					
42												
43	13C-1,2,3,4,6,7,8-HpCDD	194992	35.74	35.75	0.84836	0.85606	100.91	0.9	100.9	1.104	NO	
44	1,2,3,4,6,7,8-HpCDD	95614	35.75	35.74	1.05453	0.98070	46.50	-7.0	93.0	1.005	NO	
45	Total HpCDDs			0.09	1.05453		46.50					
46												
47	13C-OCDD	293217	38.31	38.35	0.67464	0.64364	190.81	-4.6	95.4	0.866	NO	
48	OCDF	192727	38.43	38.43	1.48610	1.31457	88.46	-11.5	88.5	0.895	NO	
49	OCDD	154139	38.32	38.31	1.14618	1.05136	91.73	-8.3	91.7	0.892	NO	

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Wednesday, December 15, 2010 13:27:33 Pacific Standard Time
Printed: Wednesday, December 15, 2010 13:28:05 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

#	Name	Response	RT	Prod RT	RRF M	RRF	Conc	%Dev	%Rec	Ratio	Ratio ...	Mod Date
50												
51												
52	Function 1 PFK			38.25								
53	Function 2 PFK			38.25								
54	Function 3 PFK			38.25								
55	Function 4 PFK			38.25								
56	Function 5 PFK			0.00								
57	TCDF PCDPE			38.25								
58	F1 PeCDF PCDPE			38.25								
59	F2 PeCDF PCDPE			38.25								
60	HXCDF PCDPE			38.25								
61	HPCDF PCDPE			38.25								
62	OCDF PCDPE			0.00								

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
1	07DE10A10D5_1	CS-3 10DXN505	ST1207A	---	---	1.000000
2	07DE10A10D5_2	DB-5 CPSM 10RES076	CP1207A	---		1.000000
3	07DE10A10D5_3	G0K230582-1MB 0334162	MAMJ6-1-AA	8290/Solid	27	10.000000
4	07DE10A10D5_4	G0L010000-404B 0335404	MAP61-1-AA	8290/Water	28	1.000000
5	07DE10A10D5_5	G0K230515-2 0335404	MAGPH-1-AA	8290/Water	28	0.966640
6	07DE10A10D5_6	G0K230515-5 0335404	MAGP5-1-AA	8290/Water	28	0.946290
7	07DE10A10D5_7	G0K230515-7 0335404	MAGQC-1-AA	8290/Water	28	0.928440
8	07DE10A10D5_8	G0K230583-3 0335261	MAHMV-1-AC	8290/Solid	28	5.590000
9	07DE10A10D5_9	G0K230583-4 0335261	MAHMW-1-AC	8290/Solid	28	5.100000
10	07DE10A10D5_10	G0K230583-5 0335261	MAHMX-1-AC	8290/Solid	28	5.440000
11	07DE10A10D5_11	G0K230583-6 0335261	MAHM0-1-AC	8290/Solid	28	5.600000
12	07DE10A10D5_12	G0K300507-1S (10x) 0335257	MAM80-1-AD	8290/Solid	28	10.060000
13	07DE10A10D5_13	G0K300507-1D (10x) 0335257	MAM80-1-AE	8290/Solid	28	10.540000
14	07DE10A10D5_14	G0K300507-1 (10x) 0335257	MAM80-1-AC	8290/Solid	28	10.690000
15	07DE10A10D5_15	G0L010000-404C 0335404	MAP61-1-AC	8290/Water	28	1.000000
16	07DE10A10D5_16	CS-3 10DXN505	ST1207B	---	---	1.000000
17	07DE10A10D5_17	DB-5 CPSM 10RES076	CP1207B	---		1.000000
18	07DE10A10D5_18	G0L060000-366B 0340366	MAXVL-1-AA	8290/Water	31	1.000000
19	07DE10A10D5_19	F0L030530-11 0340366	MAT97-1-AE	8290/Water	31	1.001680
20	07DE10A10D5_20	G0L060000-366C 0340366	MAXVL-1-AC	8290/Water	31	1.000000
21	07DE10A10D5_21	G0L010000-261C 0335261	MAPG5-1-AC	8290/Solid	28	10.000000
22	07DE10A10D5_22	CS-3 10DXN505	ST1207C	---	---	1.000000
23	07DE10A10D5_23	DB-5 CPSM 10RES076	CP1207C	---		1.000000
24	07DE10A10D5_24	G0K230581-1MB 0334160	MAMJQ-1-AA	8290/Solid	26	10.000000
25	07DE10A10D5_25	G0K230583-7 0335261	MAHM1-1-AC	8290/Solid	28	5.120000
26	07DE10A10D5_26	G0K230583-8 0335261	MAHM2-1-AC	8290/Solid	28	5.630000
27	07DE10A10D5_27	G0K230580-1 0333224	MAHLN-1-AC	8290/Solid	25	5.530000
28	07DE10A10D5_28	G0K230580-2 0333224	MAHLR-1-AC	8290/Solid	25	5.560000
29	07DE10A10D5_29	G0K230580-3 0333224	MAHLT-1-AC	8290/Solid	25	5.780000
30	07DE10A10D5_30	G0K230580-4 0333224	MAHLV-1-AC	8290/Solid	25	5.000000
31	07DE10A10D5_31	G0K230580-5 0333224	MAHLW-1-AC	8290/Solid	25	5.160000
32	07DE10A10D5_32	G0K230580-6 0333224	MAHLX-1-AC	8290/Solid	25	5.010000
33	07DE10A10D5_33	G0K230580-7 0333224	MAHL0-1-AC	8290/Solid	25	5.200000
34	07DE10A10D5_34	G0K230580-8 0333224	MAHL1-1-AC	8290/Solid	25	5.140000
35	07DE10A10D5_35	G0K230580-9 0333224	MAHL3-1-AC	8290/Solid	25	5.610000
36	07DE10A10D5_36	G0K230582-1LCS 0334162	MAMJ6-1-AC	8290/Solid	27	10.000000
37	07DE10A10D5_37	CS-3 10DXN505	ST1207D	---	---	1.000000
38	07DE10A10D5_38	DB-5 CPSM 10RES076	CP1207D	---		1.000000
39	07DE10A10D5_39	G0L050000-28B 0339028	MAWLA-1-AA	8290/Solid	30	10.000000
40	07DE10A10D5_40	G0K230580-10 0333224	MAHL9-1-AC	8290/Solid	25	5.980000
41	07DE10A10D5_41	G0K230580-11 0333224	MAHMA-1-AC	8290/Solid	25	5.280000
42	07DE10A10D5_42	G0K230580-12 0333224	MAHMC-1-AC	8290/Solid	25	5.340000
43	07DE10A10D5_43	G0K230580-17 0333224	MAJ82-1-AC	8290/Solid	25	5.100000
44	07DE10A10D5_44	G0K230580-18 0333224	MAJ84-1-AC	8290/Solid	25	5.220000
45	07DE10A10D5_45	G0K230580-19 0333224	MAJ86-1-AC	8290/Solid	25	5.260000
46	07DE10A10D5_46	G0K230580-20 0333224	MAJ87-1-AC	8290/Solid	25	5.220000
47	07DE10A10D5_47	G0K230580-13 0333224	MAHMD-1-AC	8290/Solid	25	5.340000
48	07DE10A10D5_48	G0K230580-14 0333224	MAHME-1-AC	8290/Solid	25	5.460000
49	07DE10A10D5_49	G0K230581-1LCS 0334160	MAMJQ-1-AC	8290/Solid	26	10.000000
50	07DE10A10D5_50	CS-3 10DXN505	ST1207E	---	---	1.000000
51	07DE10A10D5_51	DB-5 CPSM 10RES076	CP1207E	---		1.000000
52	07DE10A10D5_52	G0K190561-1MB 0341193	MA0EW-1-AA	8290/Solid	33	5.000000
53	07DE10A10D5_53	G0L020527-1 0339028	MARGL-1-AA	8290/Solid	30	10.000000
54	07DE10A10D5_54	G0L020529-1 0339028	MARGL-1-AA	8290/Solid	30	10.000000
55	07DE10A10D5_55	G0L050000-28C 0339028	MAWLA-1-AC	8290/Solid	30	10.000000
56	07DE10A10D5_56	G0K230582-1 0334162	MAHMH-1-AC	8290/Solid	27	5.040000
57	07DE10A10D5_57	G0K230582-2 0334162	MAHMJ-1-AC	8290/Solid	27	5.010000
58	07DE10A10D5_58	G0K230582-3 0334162	MAHMK-1-AC	8290/Solid	27	4.950000

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
59	07DE10A10D5_59	G0K230582-4 0334162	MAHML-1-AC	8290/Solid	27	5.010000
60	07DE10A10D5_60	G0K230582-5 0334162	MAHMM-1-AC	8290/Solid	27	5.020000
61	07DE10A10D5_61	G0K230580-15 0333224	MAHMF-1-AC	8290/Solid	25	5.480000
62	07DE10A10D5_62	G0K230580-16 0333224	MAHMG-1-AC	8290/Solid	25	5.120000
63	07DE10A10D5_63	G0K190561-1LCS 0341193	MA0EW-1-AC	8290/Solid	33	5.000000
64	07DE10A10D5_64	CS-3 10DXN505	ST1207F	---	---	1.000000
65	07DE10A10D5_65	DB-5 CPSM 10RES076	CP1207F	---		1.000000
66	07DE10A10D5_66	G0L0740427-1MB 0343158	MA31C-1-AA	8290/Solid	34	10.000000
67	07DE10A10D5_67	G0L070427-1RX 0343158	MA0A0-2-AA	8290/Solid	34	15.080000
68	07DE10A10D5_68	G0L070427-1MS 0343158	MA0A0-2-AD	8290/Solid	34	15.160000
69	07DE10A10D5_69	G0L070427-1MSD 0343158	MA0A0-2-AE	8290/Solid	34	15.000000
70	07DE10A10D5_70	G0L070427-2RX 0343158	MA0A2-2-AA	8290/Solid	34	15.170000
71	07DE10A10D5_71	G0L070427-3RX 0343158	MA0A3-2-AA	8290/Solid	34	15.000000
72	07DE10A10D5_72	G0L0740427-1LCS 0343158	MA31C-1-AC	8290/Solid	34	10.000000
73	07DE10A10D5_73	G0L0740427-1LCSD 0343158	MA31C-1-AD	8290/Solid	34	10.000000
74	07DE10A10D5_74	CS-3 10DXN505	ST1207G	---	---	1.000000
75	07DE10A10D5_75	DB-5 CPSM 10RES076	CP1207G	---		1.000000
76	07DE10A10D5_76	G0L080447-1MB 0342385	MA3AH-1-AA	8290/Water	34	1.000000
77	07DE10A10D5_77	G0L080447-1 0342385	MA1WP-1-AA	8290/Water	34	0.769750
78	07DE10A10D5_78	G0K230582-6 0334162	MAHMN-1-AC	8290/Solid	27	4.970000
79	07DE10A10D5_79	G0K230582-7 0334162	MAHMP-1-AC	8290/Solid	27	5.000000
80	07DE10A10D5_80	G0K230582-8 0334162	MAHMQ-1-AC	8290/Solid	27	4.960000
81	07DE10A10D5_81	G0K190561-1RX 0341193	MAA0W-3-AA	8290/Solid	33	2.092000
82	07DE10A10D5_82	G0K190561-2RX 0341193	MAA0X-3-AA	8290/Solid	33	2.050000
83	07DE10A10D5_83	G0K190561-3RX 0341193	MAA00-3-AA	8290/Solid	33	2.000000
84	07DE10A10D5_84	G0K190561-4RX 0341193	MAA01-3-AA	8290/Solid	33	5.175000
85	07DE10A10D5_85	G0K190561-5RX 0341193	MAA02-3-AA	8290/Solid	33	1.930000
86	07DE10A10D5_86	G0K190561-6RX 0341193	MAA03-3-AA	8290/Solid	33	5.000000
87	07DE10A10D5_87	G0K190561-7RX 0341193	MAA04-3-AA	8290/Solid	33	5.205000
88	07DE10A10D5_88	G0L080447-1LCS 0342385	MA3AH-1-AC	8290/Water	34	1.000000
89	07DE10A10D5_89	CS-3 10DXN505	ST1207H	---	---	1.000000
90	07DE10A10D5_90	DB-5 CPSM 10RES076	CP1207H	---		1.000000
91	07DE10A10D5_91	110910MDLM23XAD	MB	23	15	1.000000
92	07DE10A10D5_92	110910MDLM23XAD	MDL-1	23	15	1.000000
93	07DE10A10D5_93	110910MDLM23XAD	MDL-2	23	15	1.000000
94	07DE10A10D5_94	110910MDLM23XAD	MDL-3	23	15	1.000000
95	07DE10A10D5_95	110910MDLM23XAD	MDL-4	23	15	1.000000
96	07DE10A10D5_96	110910MDLM23XAD	MDL-5	23	15	1.000000
97	07DE10A10D5_97	110910MDLM23XAD	MDL-6	23	15	1.000000
98	07DE10A10D5_98	110910MDLM23XAD	MDL-7	23	15	1.000000
99	07DE10A10D5_99	110910MDLM23XAD	MDL-Check	23	15	1.000000
100	07DE10A10D5_100	G0K190561-8RX 0341193	MAA05-3-AA	8290/Solid	33	5.190000
101	07DE10A10D5_101	G0K190561-9RX 0341193	MAA06-3-AA	8290/Solid	33	4.935000
102	07DE10A10D5_102	G0K190561-10RX 0341193	MAA08-3-AA	8290/Solid	33	5.215000
103	07DE10A10D5_103	G0K190561-11RX 0341193	MAA09-3-AA	8290/Solid	33	2.028000
104	07DE10A10D5_104	CS-3 10DXN505	ST1207I	---	---	1.000000
105	07DE10A10D5_105	DB-5 CPSM 10RES076	CP1207I	---		1.000000
106	07DE10A10D5_106	G0K220524-1MB 0327264	MAF68-1-AA	23/Air	29	0.333333
107	07DE10A10D5_107	G0K220524-1 0327264	MAFEC-1-AA	23/Air	29	0.333333
108	07DE10A10D5_108	G0K220524-2 0327264	MAFED-1-AA	23/Air	29	0.333333
109	07DE10A10D5_109	G0K170531-1RX 0343275	L9664-2-AA	8290/Solid	35	9.665000
110	07DE10A10D5_110	G0K170531-2RX 0343275	L9665-2-AA	8290/Solid	35	10.170000
111	07DE10A10D5_111	G0K170531-3RX 0343275	L9666-2-AA	8290/Solid	35	10.065000
112	07DE10A10D5_112	G0K170531-4RX 0343275	L9668-2-AA	8290/Solid	35	2.040000
113	07DE10A10D5_113	G0K170531-5RX 0343275	L9669-2-AA	8290/Solid	35	0.202500
114	07DE10A10D5_114	G0K170531-6RX 0343275	L967A-2-AA	8290/Solid	35	0.207700
115	07DE10A10D5_115	G0K170531-7RX 0343275	L967C-2-AA	8290/Solid	35	9.860000
116	07DE10A10D5_116	G0K170531-8RX 0343275	L967D-2-AA	8290/Solid	35	1.007500

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size
117	07DE10A10D5_117	G0K170531-9RX 0343275	L967E-2-AA	8290/Solid	35	10.155000
118	07DE10A10D5_118	G0K220524-1LCS 0327264	MAF68-1-AC	23/Air	29	0.333300
119	07DE10A10D5_119	CS-3 10DXN505	ST1207J	---	---	1.000000
120	07DE10A10D5_120	DB-5 CPSM 10RES076	CP1207J	---		1.000000
121	07DE10A10D5_121	G0K170531-1MB 0343275	MA4R2-1-AA	8290/Solid	35	10.000000
122	07DE10A10D5_122	G0K170531-1LCS 0343275	MA4R2-1-AC	8290/Solid	35	10.000000
123	07DE10A10D5_123	G0L040465-1MB 0343325	MA45N-1-AA	TO9/Air	34	0.500000
124	07DE10A10D5_124	G0L040465-1LCS 0343325	MA45N-1-AC	TO9/Air	34	0.500000
125	07DE10A10D5_125	G0L040465-11 0343325	MAWFF-1-AC	TO9/Air	34	0.500000
126	07DE10A10D5_126	G0L040465-12 0343325	MAWFG-1-AC	TO9/Air	34	0.500000
127	07DE10A10D5_127	G0L080454-1LCS 0342379	MA3AG-1-AC	TO9/Air	34	0.500000
128	07DE10A10D5_128	G0L080454-1DCS 0342379	MA3AG-1-AD	TO9/Air	34	0.500000
129	07DE10A10D5_129	G0L080454-2 0342379	MA1X3-1-AA	TO9/Air	34	0.500000
130	07DE10A10D5_130	G0L080454-5 0342379	MA11D-1-AA	TO9/Air	34	0.500000
131	07DE10A10D5_131	G0L080454-8 0342379	MA112-1-AA	TO9/Air	34	0.500000
132	07DE10A10D5_132	G0L080454-11 0342379	MA12V-1-AA	TO9/Air	34	0.500000
133	07DE10A10D5_133	G0L040465-1DCS 0343325	MA45N-1-AD	TO9/Air	34	0.500000
134	07DE10A10D5_134	CS-3 10DXN505	ST1207K	---	---	1.000000
135	07DE10A10D5_135	DB-5 CPSM 10RES076	CP1207K	---		1.000000
136	07DE10A10D5_136	G0L080454-1MB 0342379	MA3AG-1-AA	TO9/Air	34	0.500000
137	07DE10A10D5_137	G0L080567-1 0342356	MA2QM-1-AC	8290/Solid	35	10.000000
138	07DE10A10D5_138	G0L080567-1S 0342356	MA2QM-1-AD	8290/Solid	35	10.000000
139	07DE10A10D5_139	G0L080567-1D 0342356	MA2QM-1-AE	8290/Solid	35	10.000000
140	07DE10A10D5_140	G0L080567-2 0342356	MA2QR-1-AC	8290/Solid	35	10.000000
141	07DE10A10D5_141	G0L080567-3 0342356	MA2QV-1-AC	8290/Solid	35	10.000000
142	07DE10A10D5_142	G0L080567-4 0342356	MA2QW-1-AC	8290/Solid	35	10.000000
143	07DE10A10D5_143	G0L080567-5 0342356	MA2Q0-1-AC	8290/Solid	35	10.000000
144	07DE10A10D5_144	G0L080567-6 0342356	MA2Q1-1-AC	8290/Solid	35	10.000000
145	07DE10A10D5_145	G0L080567-7 0342356	MA2Q2-1-AC	8290/Solid	35	10.000000
146	07DE10A10D5_146	G0L080567-8 0342356	MA2Q3-1-AC	8290/Solid	35	10.000000
147	07DE10A10D5_147	G0L080567-9 0342356	MA2Q6-1-AC	8290/Solid	35	10.000000
148	07DE10A10D5_148	G0L080567-1LCS 0342356	MA219-1-AC	8290/Solid	35	10.000000
149	07DE10A10D5_149	CS-3 10DXN505	ST1207L	---	---	1.000000
150	07DE10A10D5_150	DB-5 CPSM 10RES076	CP1207L	---		1.000000
151	07DE10A10D5_151	G0L080567-1MB 0342356	MA219-1-AA	8290/Solid	35	10.000000
152	07DE10A10D5_152	G0L080000-159B 0342159	MA1MX-1-AA	8290/Solid	34	10.000000
153	07DE10A10D5_153	G0L030627-1 0340368	MAVWN-1-AN	8290/Water	31	1.050970
154	07DE10A10D5_154	G0L030627-2 0340368	MAVW0-1-AN	8290/Water	31	1.044650
155	07DE10A10D5_155	G0L080567-10 0342356	MA2Q7-1-AC	8290/Solid	35	10.000000
156	07DE10A10D5_156	G0L080567-11 0342356	MA2RA-1-AC	8290/Solid	35	10.000000
157	07DE10A10D5_157	G0L040475-1 0342159	MAWH4-1-AA	8290/Solid	34	2.170000
158	07DE10A10D5_158	G0L040475-2 0342159	MAWH5-1-AA	8290/Solid	34	9.600000
159	07DE10A10D5_159	G0L040475-3 0342159	MAWH6-1-AA	8290/Solid	34	10.270000
160	07DE10A10D5_160	G0L040475-4 0342159	MAWH7-1-AA	8290/Solid	34	10.150000
161	07DE10A10D5_161	G0L080000-159C 0342159	MA1MX-1-AC	8290/Solid	34	10.000000
162	07DE10A10D5_162	CS-3 10DXN505	ST1207M	---	---	1.000000
163	07DE10A10D5_163	DB-5 CPSM 10RES076	CP1207M	---		1.000000
164	07DE10A10D5_164	Solvent Blank C-14	SB1207	---		1.000000

logfile v'd
JRB 12/13/10

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:5	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:6	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:7	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:8	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:9	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:10	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:11	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:12	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:13	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:14	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:15	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:16	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:17	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:25	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:30	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:28	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:29	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:31	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:18	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:19	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:20	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:21	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:22	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:23	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:24	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:26	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:27	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:32	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:33	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:34	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:35	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:36	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:37	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:38	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:39	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:40	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:41	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:42	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:43	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:44	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:47	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:48	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:49	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:50	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:51	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:52	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:53	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:54	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:55	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:56	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:45	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:46	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:70	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:71	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:74	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:75	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:76	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:77	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:78	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:72	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:73	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:57	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:58	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:59	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:60	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:61	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:62	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:63	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:64	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:65	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:66	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:67	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:68	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:69	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:5	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:6	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:7	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:8	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:9	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:10	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:11	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:12	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:13	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:14	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:15	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:16	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:17	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:18	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:19	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:20	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:21	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:22	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:23	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:24	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:25	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:26	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:27	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:28	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Bottle	Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C
Tray01:29	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:30	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:31	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:32	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:33	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:34	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:35	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:36	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:37	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:38	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:39	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:40	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:41	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:42	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:43	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:44	Sample	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:45	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:46	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:47	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:48	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:49	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:50	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:51	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:52	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:53	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:54	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:55	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:56	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:57	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:62	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:60	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:61	L	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:58	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:59	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:63	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:64	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:65	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:66	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:67	g	20	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:2	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	10	50	100
Tray01:1	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---
Tray01:3	---	---	1.000000	Analyte	MG	dioxin10D5	dioxin	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
100	200	10	100	---	---	---
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
---	---	---	---	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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1000	2000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
1000	2000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
400	800	800	2000	---	---	---
400	800	800	2000	---	---	---
400	800	800	2000	---	---	---
1000	2000	800	2000	---	---	---
400	800	800	2000	---	---	---
1000	2000	800	2000	---	---	---
1000	2000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	100	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
1000	2000	800	2000	---	---	---
1000	2000	800	2000	---	---	---
1000	2000	800	2000	---	---	---
400	800	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	100	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	2000	2000	2000	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
400	800	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
200	400	800	2000	---	---	---

Conc D	Conc E	Conc F	Conc G	Conc H	Process	Process Options
2000	4000	800	2000	---	---	---
2000	4000	2000	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	---	---
2000	4000	800	2000	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
100	200	10	100	---	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat
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2000	4000	800	2000	---	---	---
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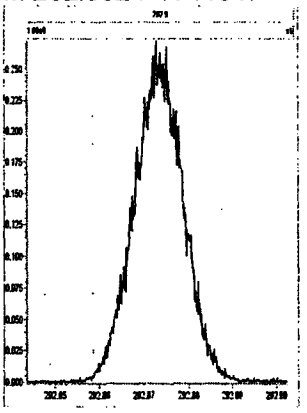
M 292.9824 R 11647



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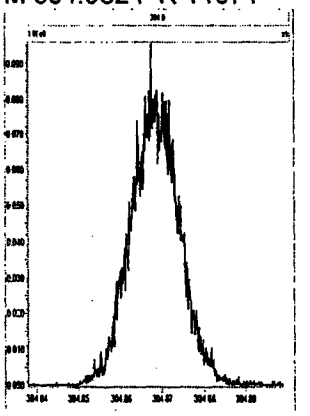

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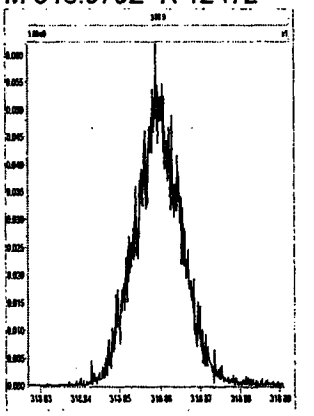

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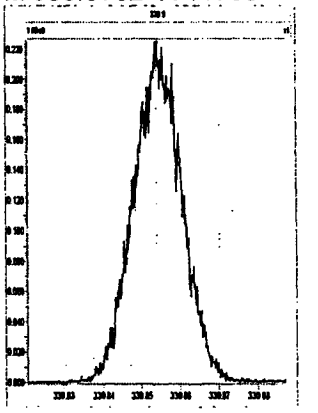

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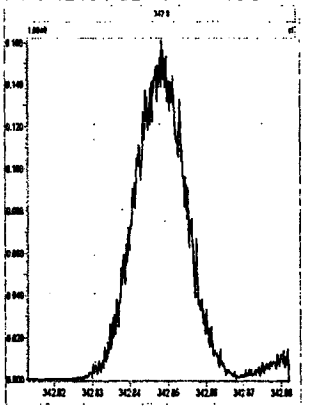

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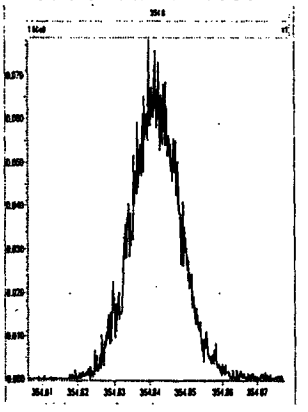
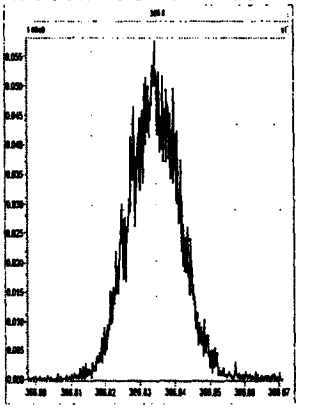


M 366.9792 R 11160



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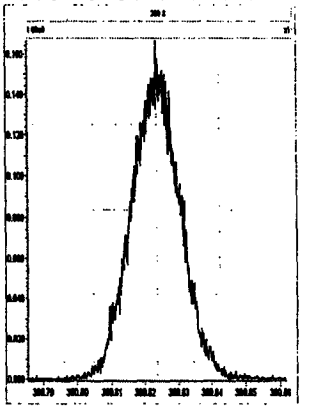

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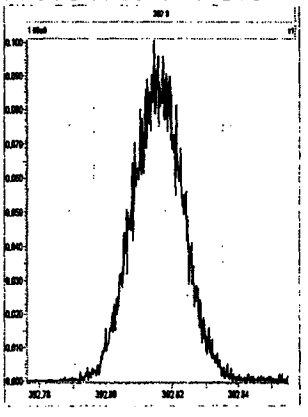

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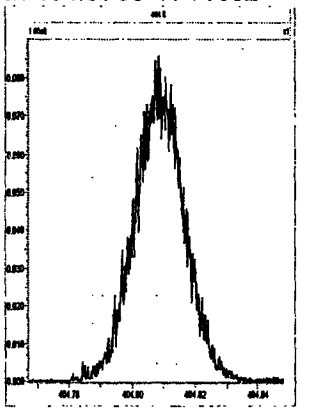

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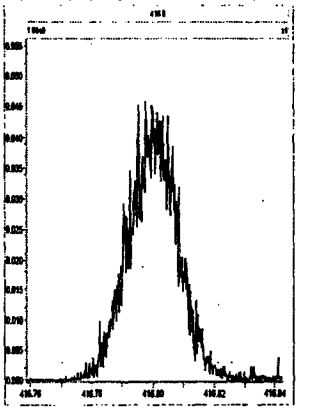

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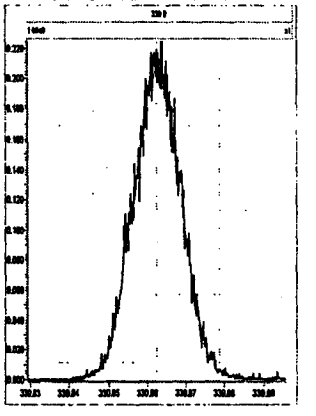

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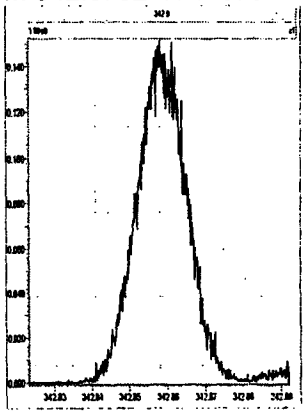

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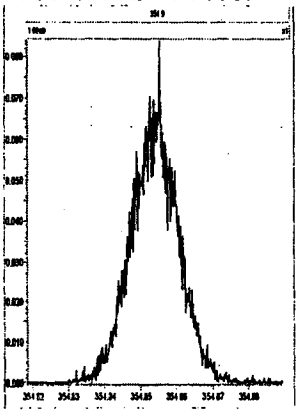

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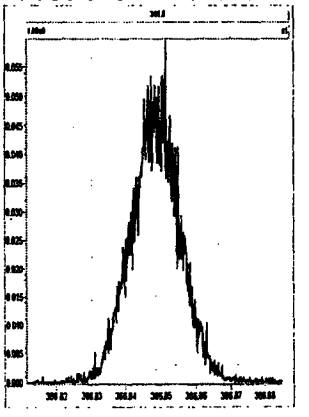

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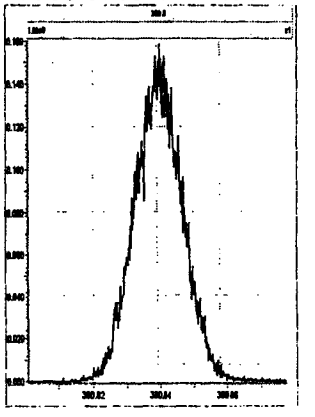
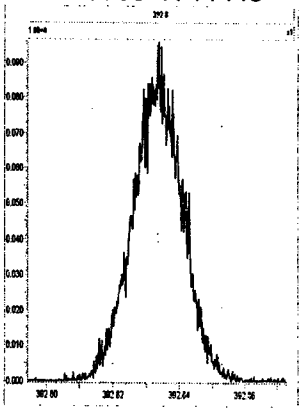
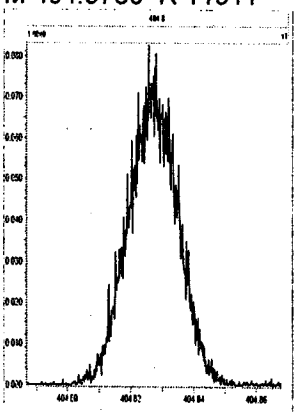


M 392.9760 R 11448



M 404.9760 R 11911



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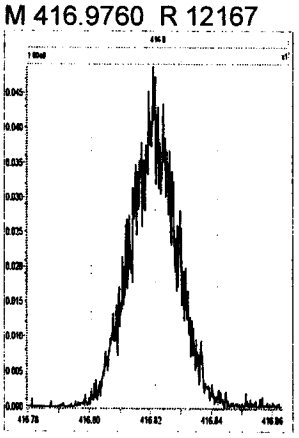

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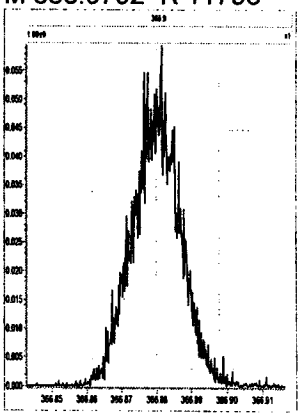

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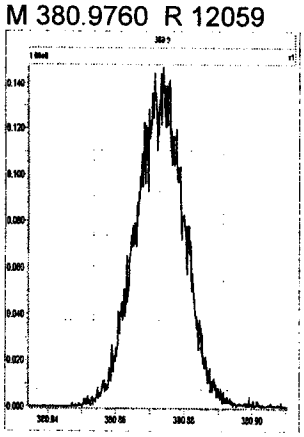

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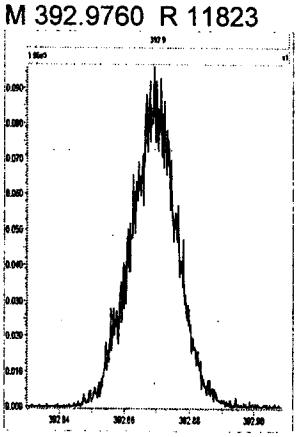

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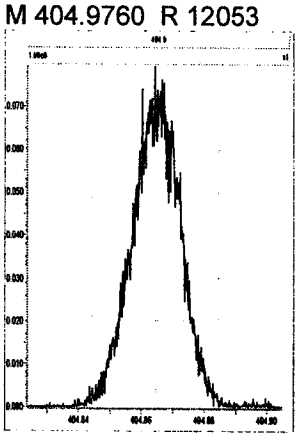

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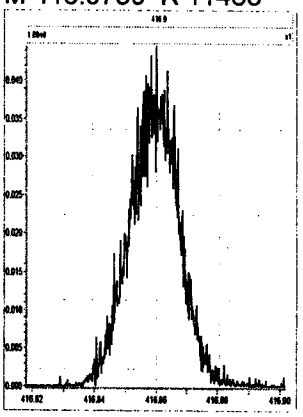
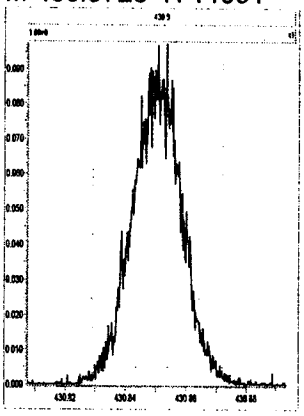
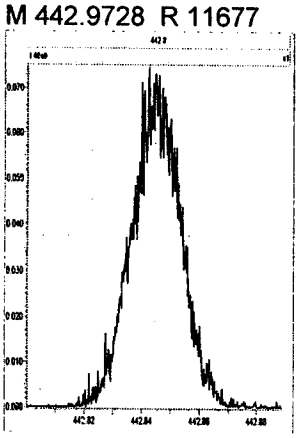


M 430.9728 R 11991



M 442.9728 R 11677



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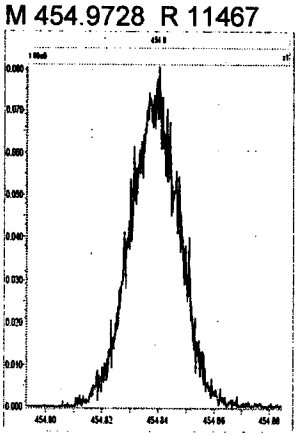
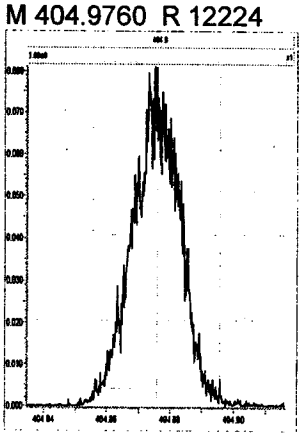


M 404.9760 R 12224



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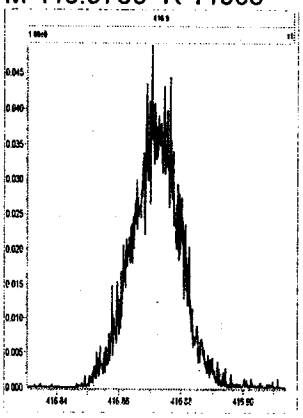

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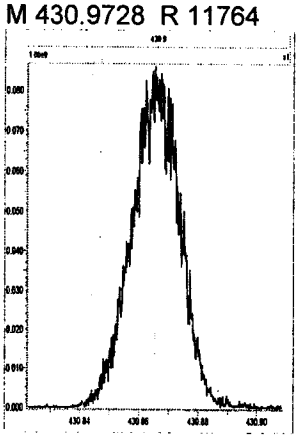

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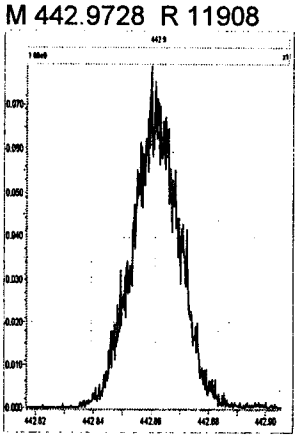

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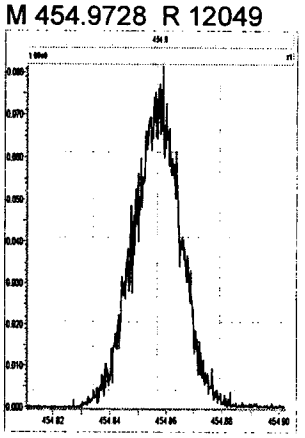

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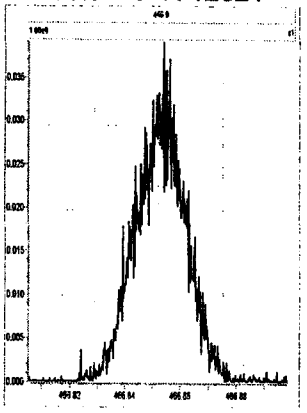

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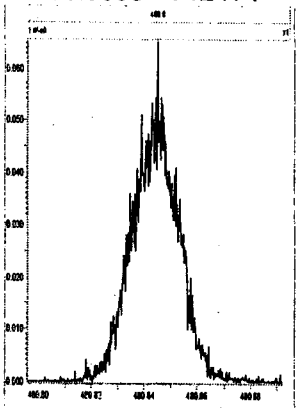

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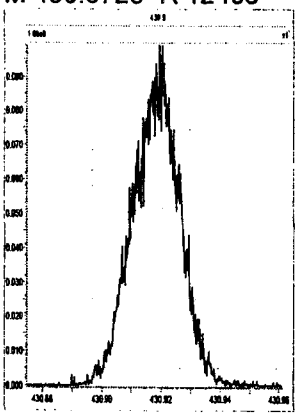

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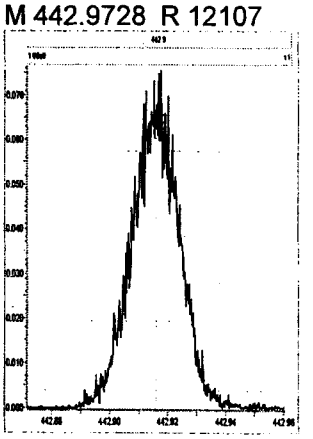

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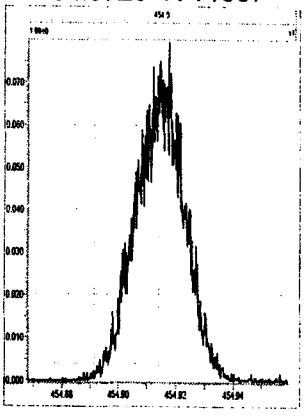
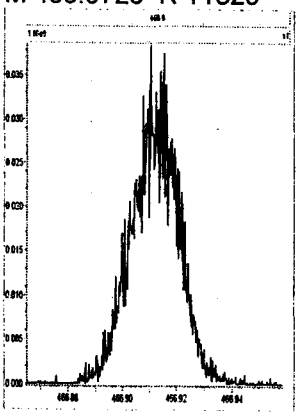


M 466.9728 R 11823



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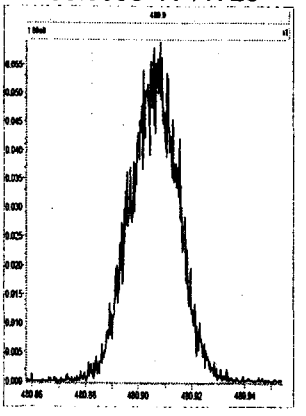

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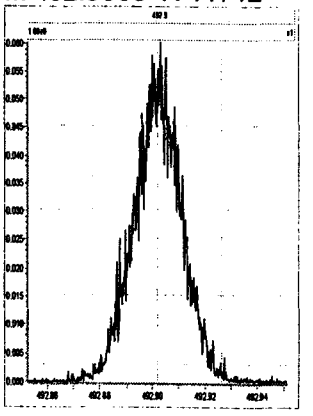

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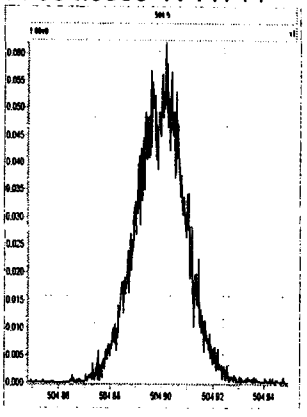

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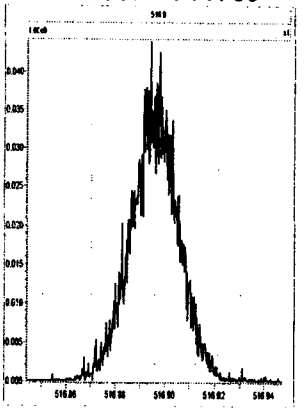

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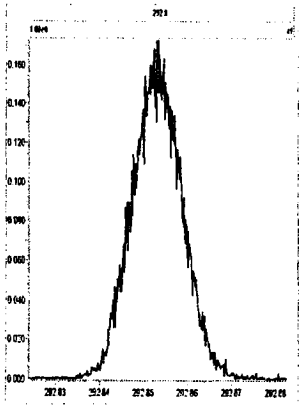

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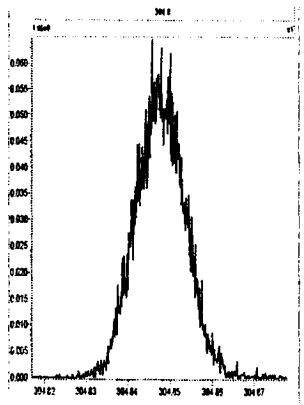

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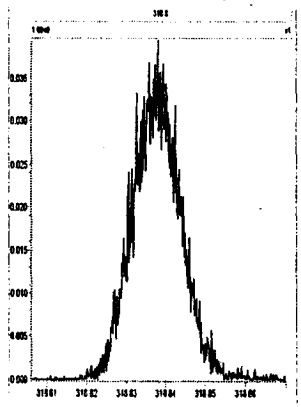

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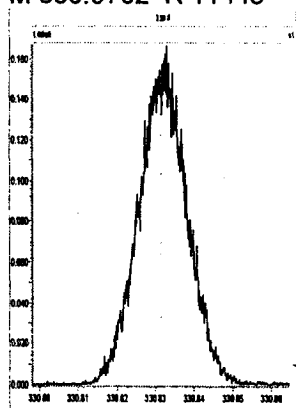
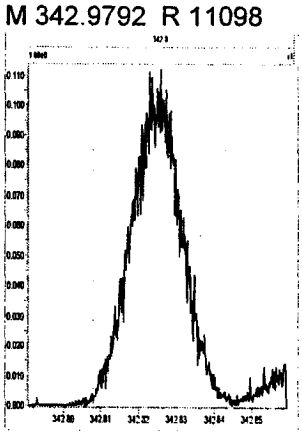


M 342.9792 R 11098



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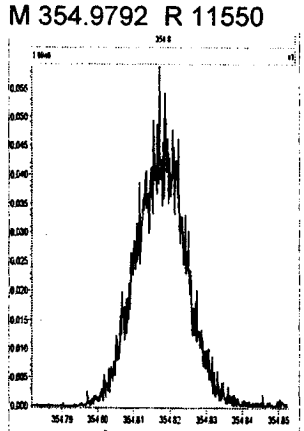

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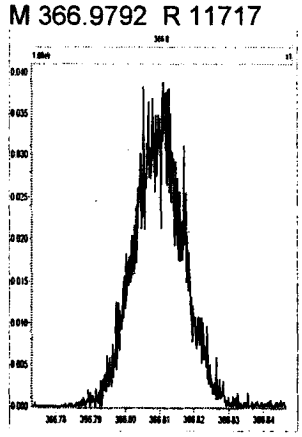

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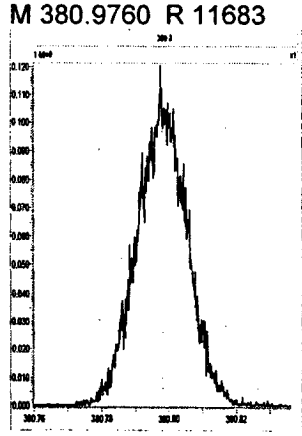

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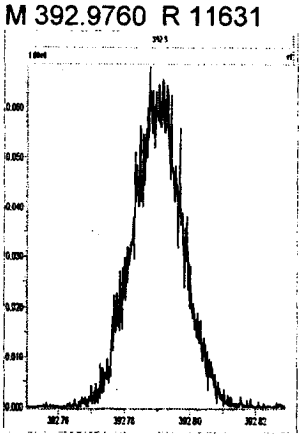

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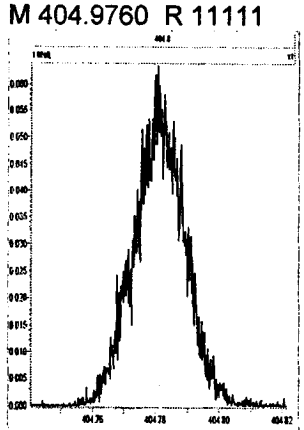

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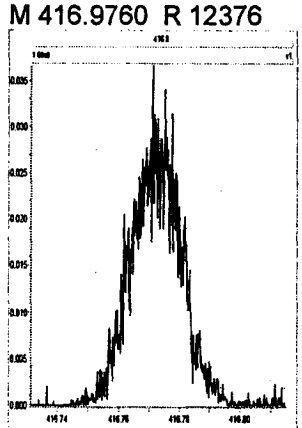

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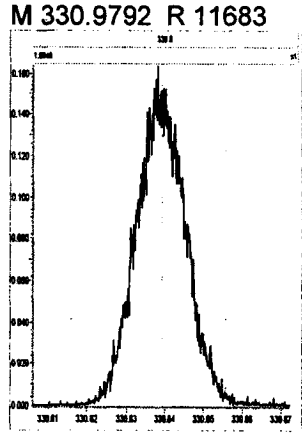
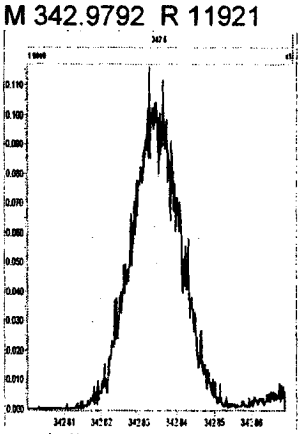
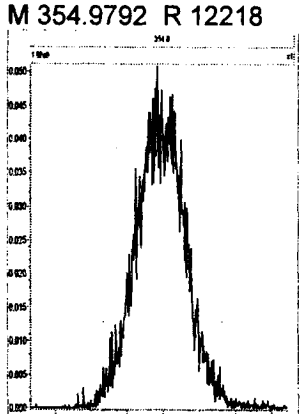


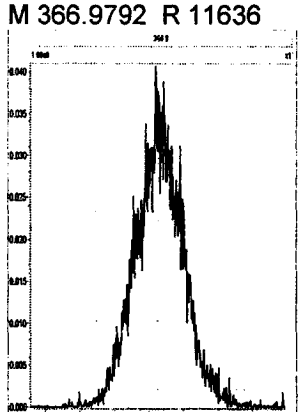
M 342.9792 R 11921



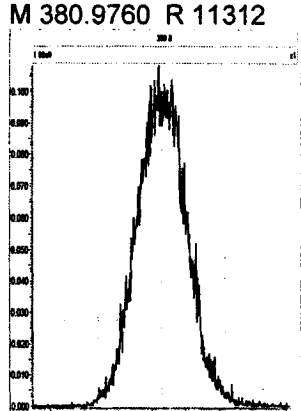
M 354.9792 R 12218



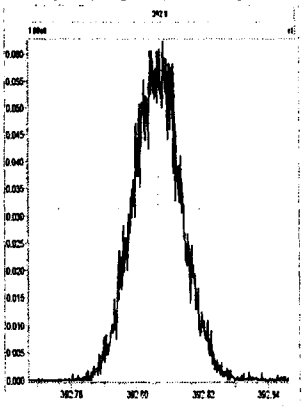
M 366.9792 R 11636



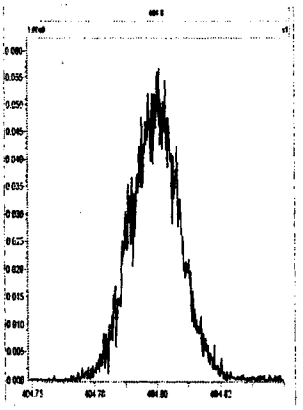
M 380.9760 R 11312



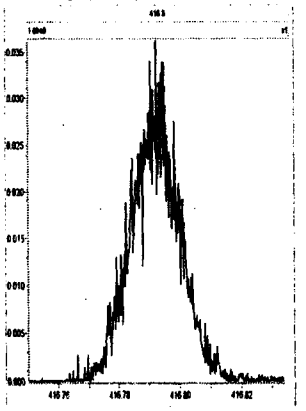
M 392.9760 R 11469



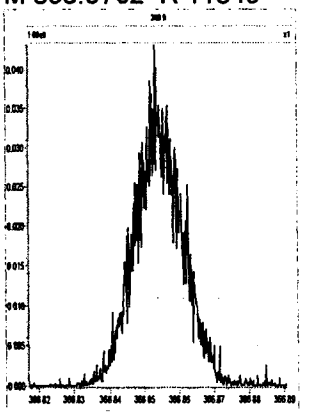
M 404.9760 R 12345



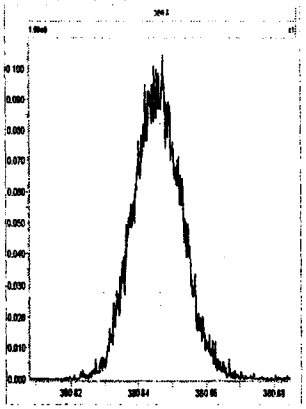
M 416.9760 R 11683



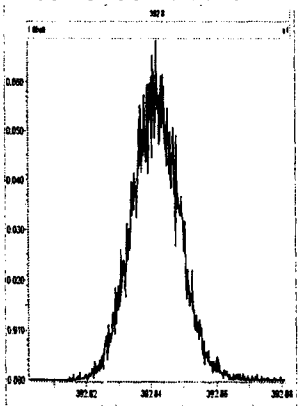
M 366.9792 R 11849



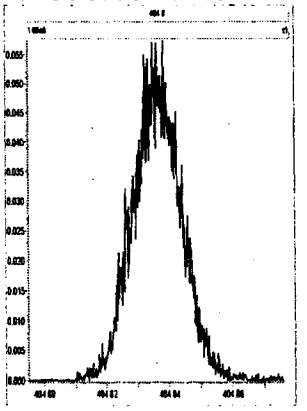
M 380.9760 R 11850



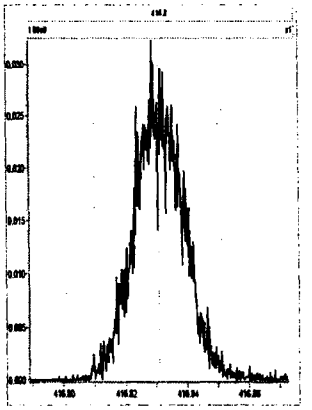
M 392.9760 R 11451



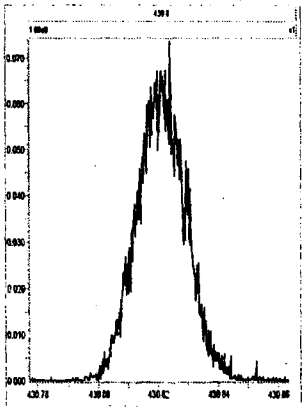
M 404.9760 R 11914



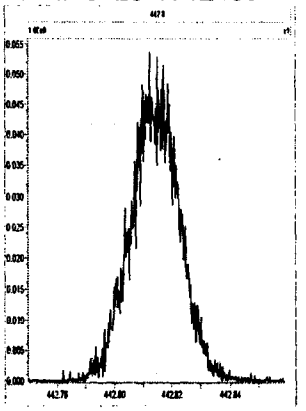
M 416.9760 R 10946



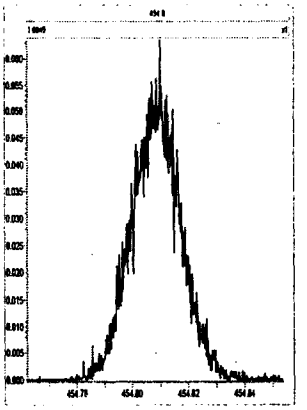
M 430.9728 R 12194



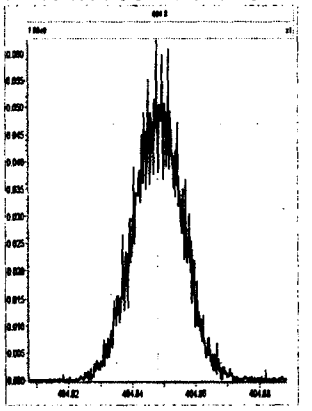
M 442.9728 R 12196



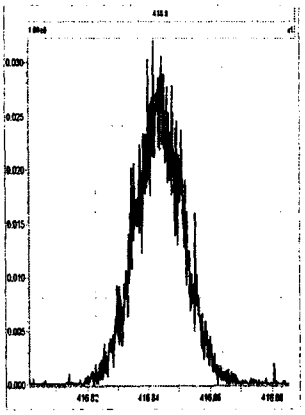
M 454.9728 R 11792



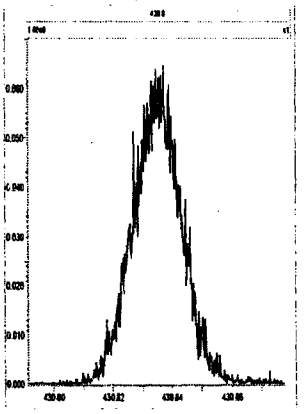
M 404.9760 R 11783



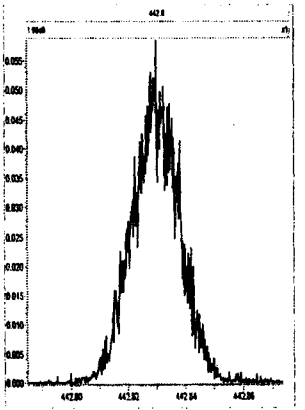
M 416.9760 R 11848



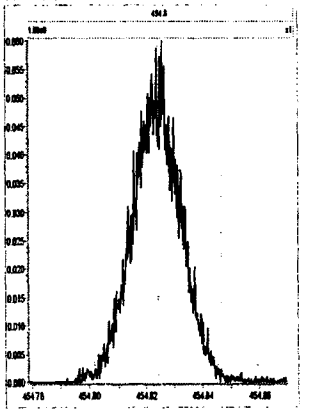
M 430.9728 R 11682



M 442.9728 R 12225

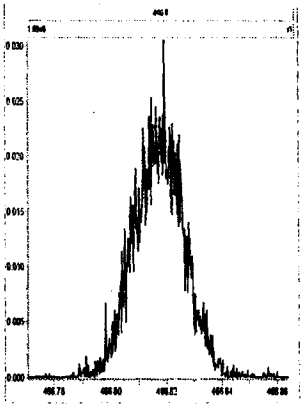


M 454.9728 R 11160

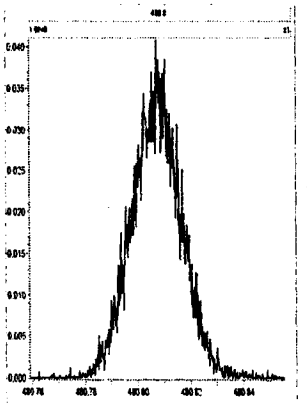


Printed: Sunday, December 12, 2010 09:36:01 Pacific Standard Time

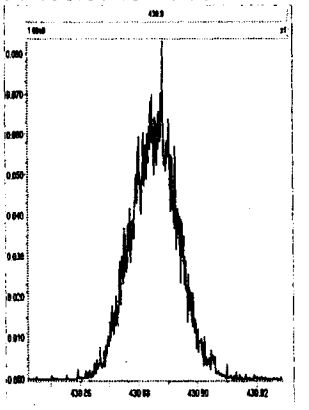
M 466.9728 R 12273



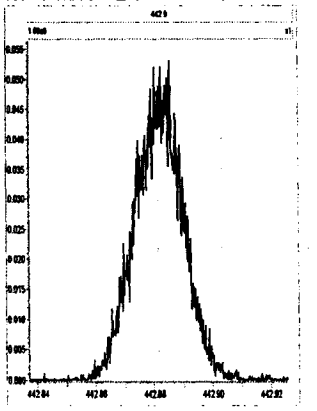
M 480.9696 R 12077



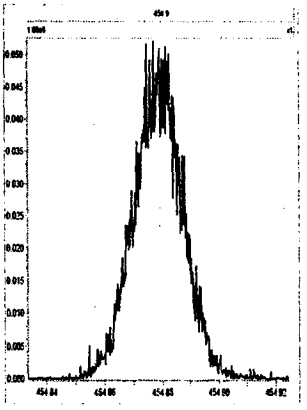
M 430.9728 R 11473



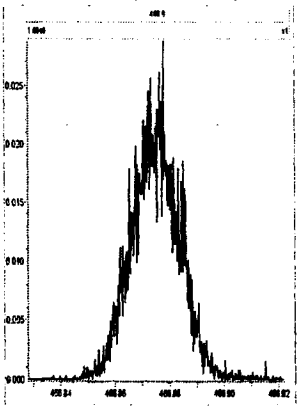
M 442.9728 R 11904



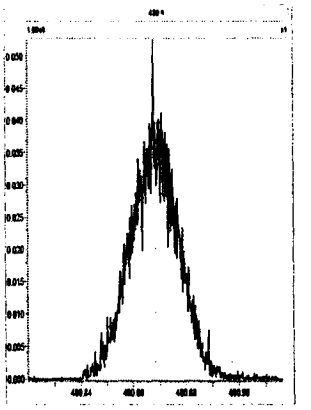
M 454.9728 R 11874



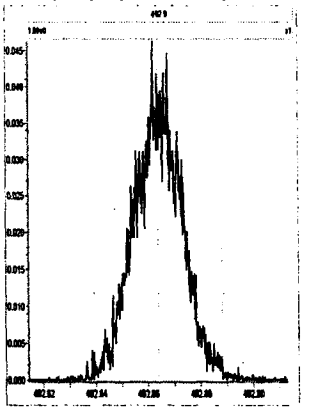
M 466.9728 R 12693



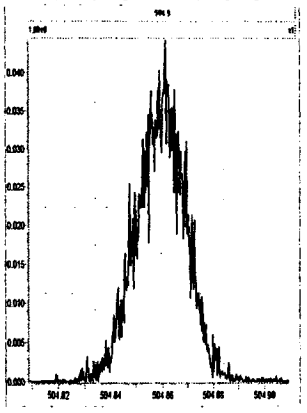
M 480.9696 R 12019



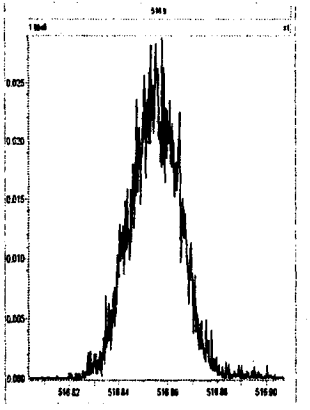
M 492.9696 R 12877

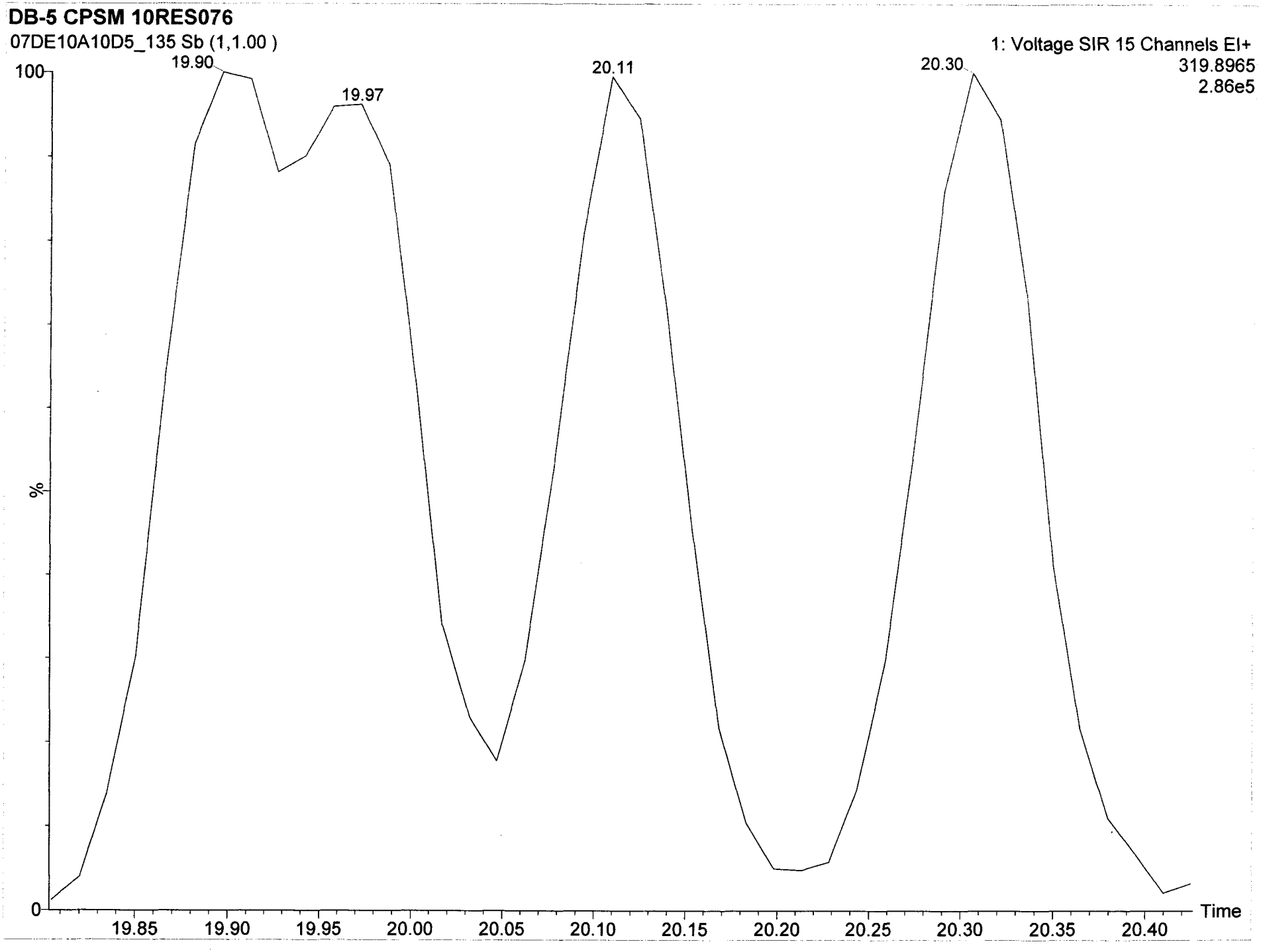


M 504.9696 R 12046



M 516.9697 R 12053




DB-5 CPSM 10RES076
07DE10A10D5_135 Sb (1,1.00)
1: Voltage SIR 15 Channels EI+
319.8965
2.86e5
19.90
19.97
20.11
20.30
100
0
%
Time
19.85
19.90
19.95
20.00
20.05
20.10
20.15
20.20
20.25
20.30
20.35
20.40

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 11:38:18 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: C:\MassLynx\Default.pro\Curvedb\ICA09291010D5TO9.cdb 13 Dec 2010 11:27:13

1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.31203	0.02602	1.98292
4	2,3,7,8-TCDF	0.99766	0.05398	5.41067
5	Total TCDFs	0.99766	0.05398	5.41067
6				
7	13C-2,3,7,8-TCDD	0.90938	0.03350	3.68426
8	2,3,7,8-TCDD	1.03464	0.03788	3.66087
9	Total TCDDs	1.03464	0.03788	3.66088
10				
11	37CL-2,3,7,8-TCDD	0.65529	0.04007	6.11558
12				
13	13C-1,2,3,7,8-PeCDF	1.02378	0.03366	3.28821
14	1,2,3,7,8-PeCDF	1.09163	0.07636	6.99532
15	2,3,4,7,8-PeCDF	1.06412	0.07093	6.66572
16	Total F2 PeCDFs	1.07787	0.07357	6.82587
17	Total F1 PeCDFs	1.07787	0.07357	6.82587
18				
19	13C-1,2,3,7,8-PeCDD	0.73445	0.03188	4.34090
20	1,2,3,7,8-PeCDD	0.96030	0.07379	7.68439
21	Total PeCDDs	0.96030	0.07379	7.68439
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	1.04941	0.04078	3.88633
26	1,2,3,4,7,8-HxCDF	1.31260	0.08060	6.14026
27	1,2,3,6,7,8-HxCDF	1.43801	0.08073	5.61377
28	2,3,4,6,7,8-HxCDF	1.35233	0.06680	4.93996
29	1,2,3,7,8,9-HxCDF	1.19752	0.07420	6.19643
30	Total HxCDFs	1.32511	0.07456	5.62649
31				
32	13C-1,2,3,6,7,8-HxCDD	0.90452	0.04739	5.23895
33	1,2,3,4,7,8-HxCDD	0.98150	0.11886	12.11042
34	1,2,3,6,7,8-HxCDD	1.09425	0.09074	8.29235
35	1,2,3,7,8,9-HxCDD	1.05784	0.11025	10.42210
36	Total HxCDDs	1.04453	0.10589	10.13757
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.95391	0.04593	4.81530
39	1,2,3,4,6,7,8-HpCDF	1.46280	0.08159	5.57799
40	1,2,3,4,7,8,9-HpCDF	1.23081	0.07706	6.26095
41	Total HpCDFs	1.34680	0.07868	5.84221
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.84836	0.04441	5.23520
44	1,2,3,4,6,7,8-HpCDD	1.05453	0.09764	9.25898
45	Total HpCDDs	1.05453	0.09764	9.25898
46				
47	13C-OCDD	0.67484	0.02285	3.38633

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:37:26 Pacific Standard Time
Printed: Monday, December 13, 2010 11:38:18 Pacific Standard Time

48	OCDF	1.48610	0.14046	9.45134
49	OCDD	1.14618	0.09332	8.14138
50				
51				
52	Function 1 PFK			
53	Function 2 PFK			
54	Function 3 PFK			
55	Function 4 PFK			
56	Function 5 PFK			
57	TCDF PCDPE			
58	F1 PeCDF PCDPE			
59	F2 PeCDF PCDPE			
60	HXCDF PCDPE			
61	HPCDF PCDPE			
62	OCDF PCDPE			

Quantify Sample Report **MassLynx 4.1**

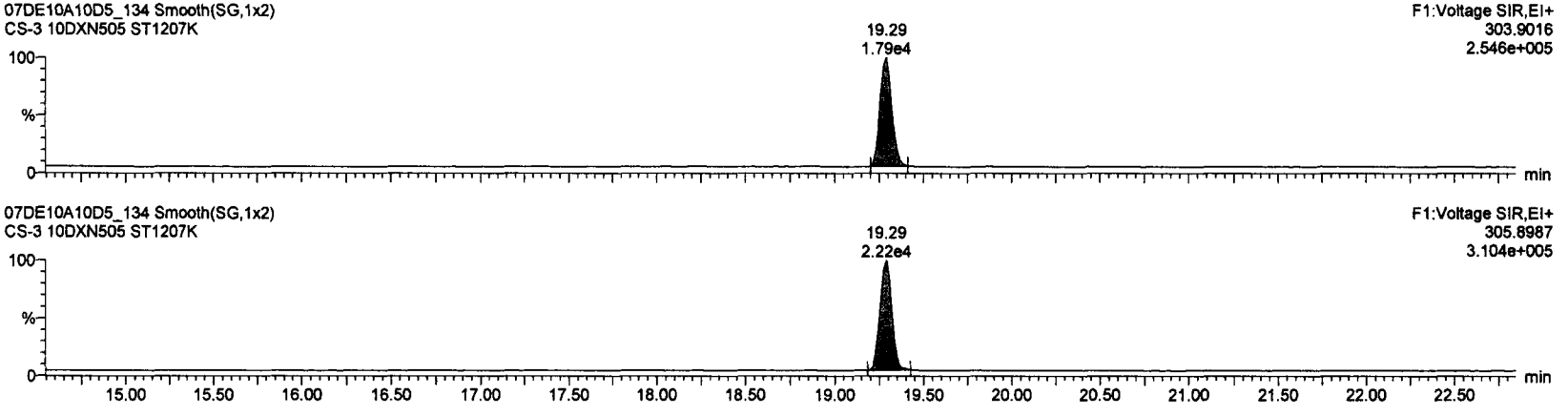
Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

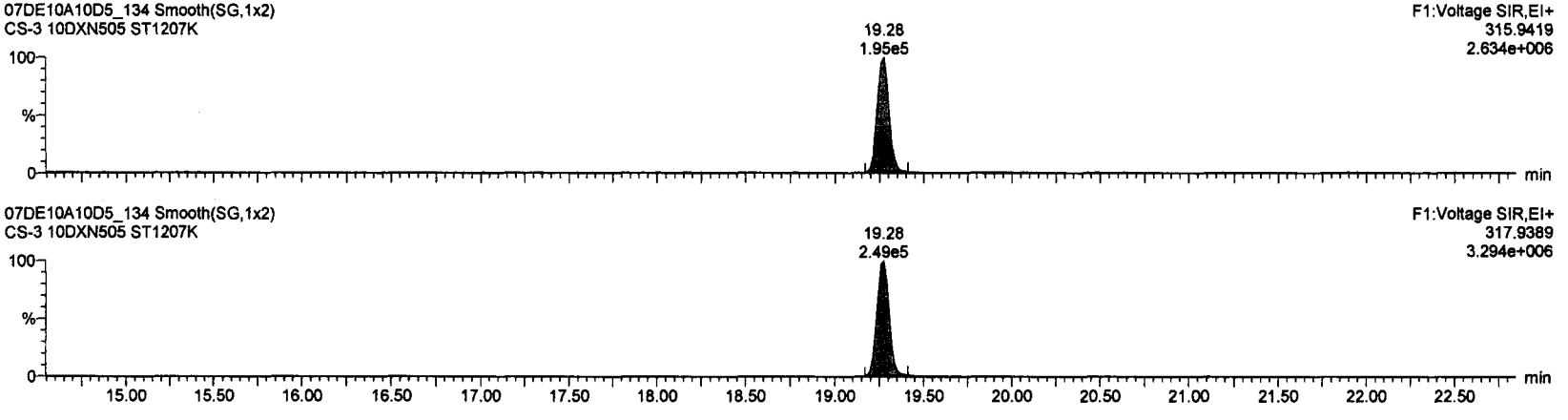
Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: C:\MassLynx\Default.PRO\CurveDB\ICA09291010D58290.cdb 30 Sep 2010 09:13:51

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

TCDFs



13C-TCDF



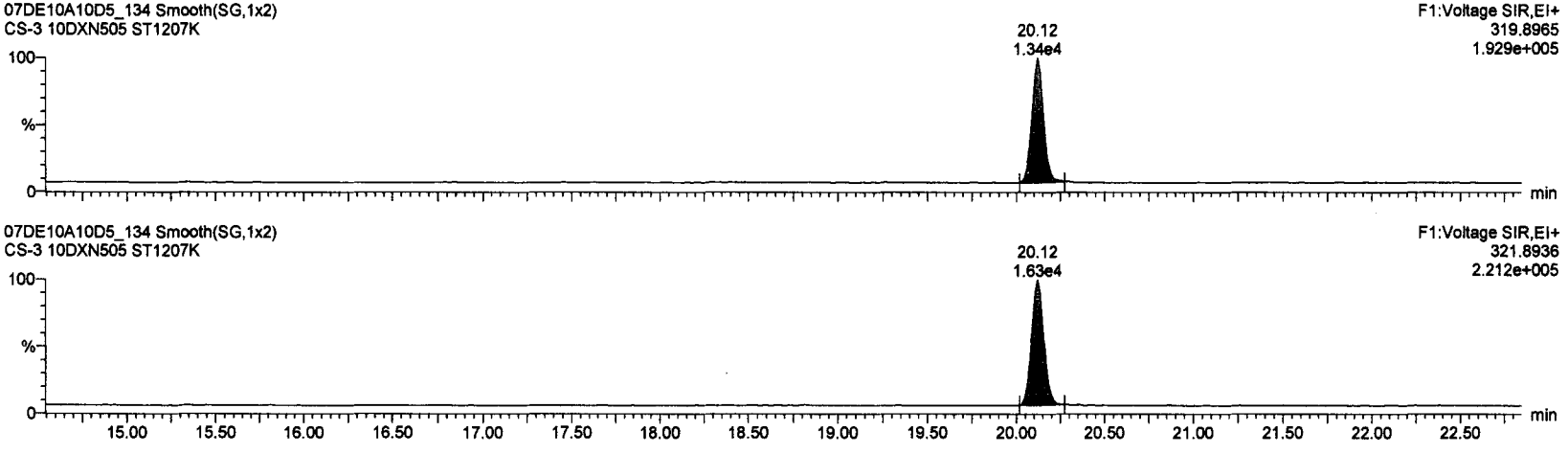
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

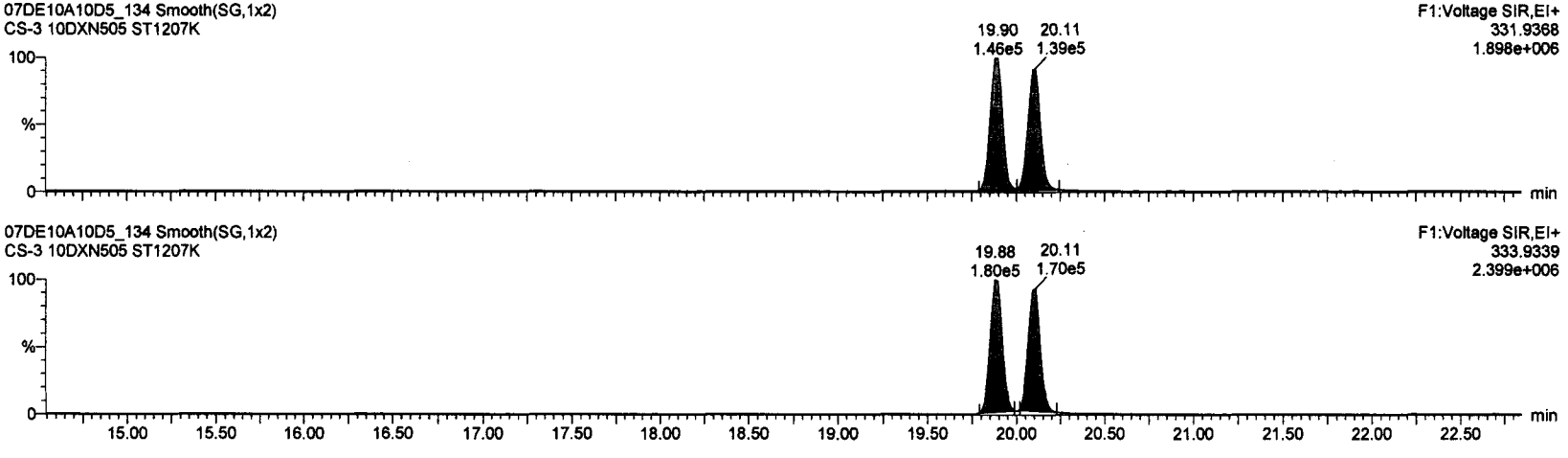
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

TCDDs



13C-TCDDs



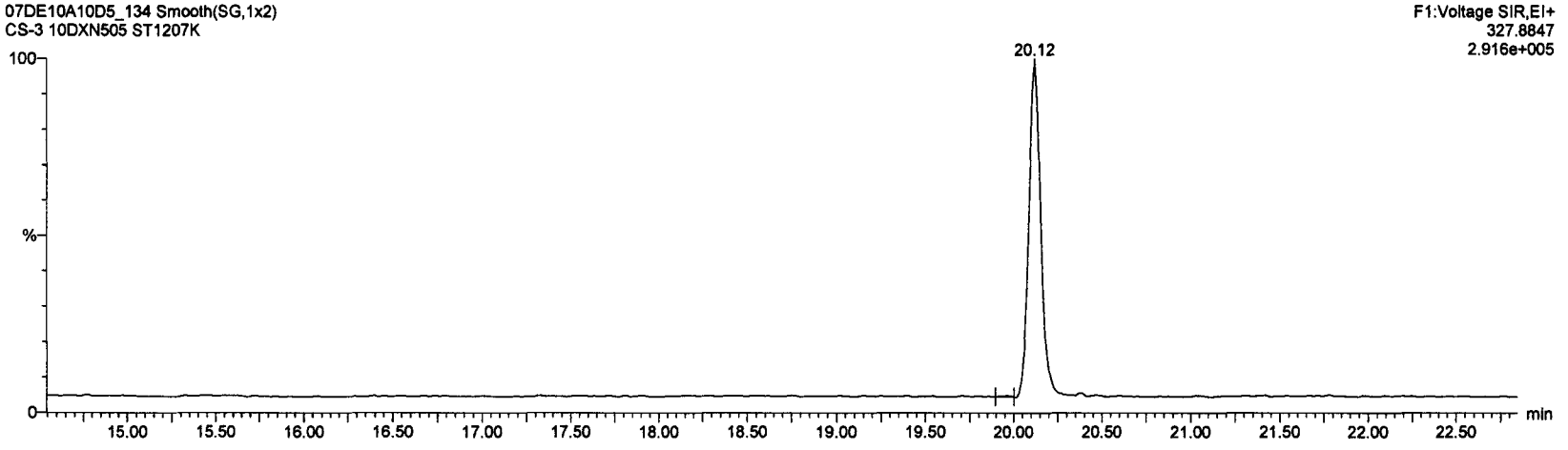
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

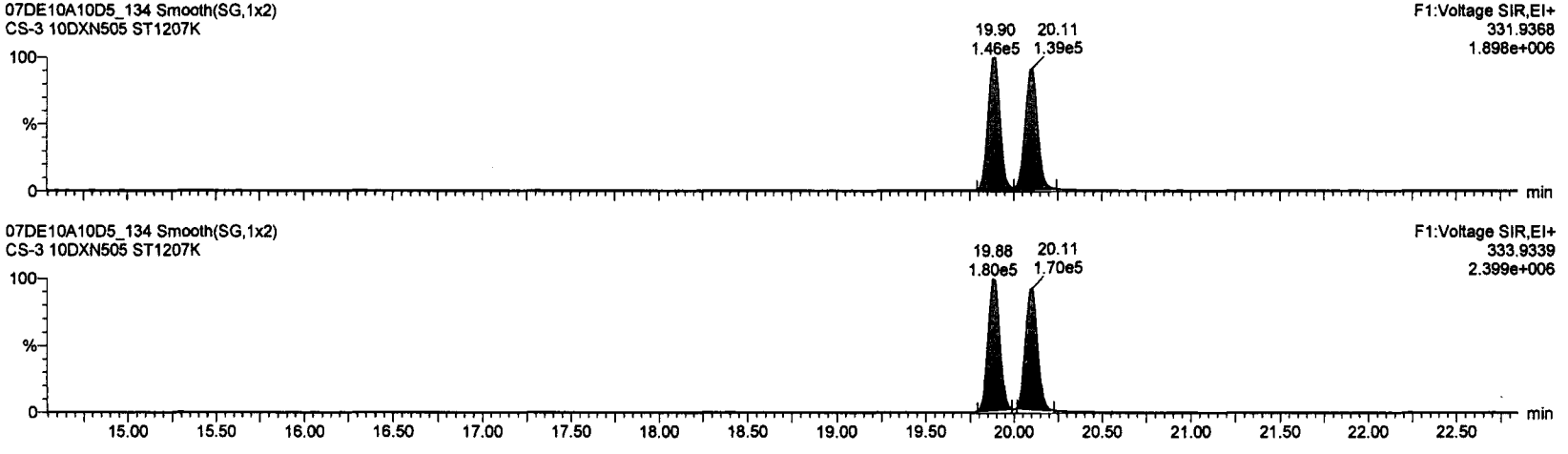
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

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



13C-TCDDs



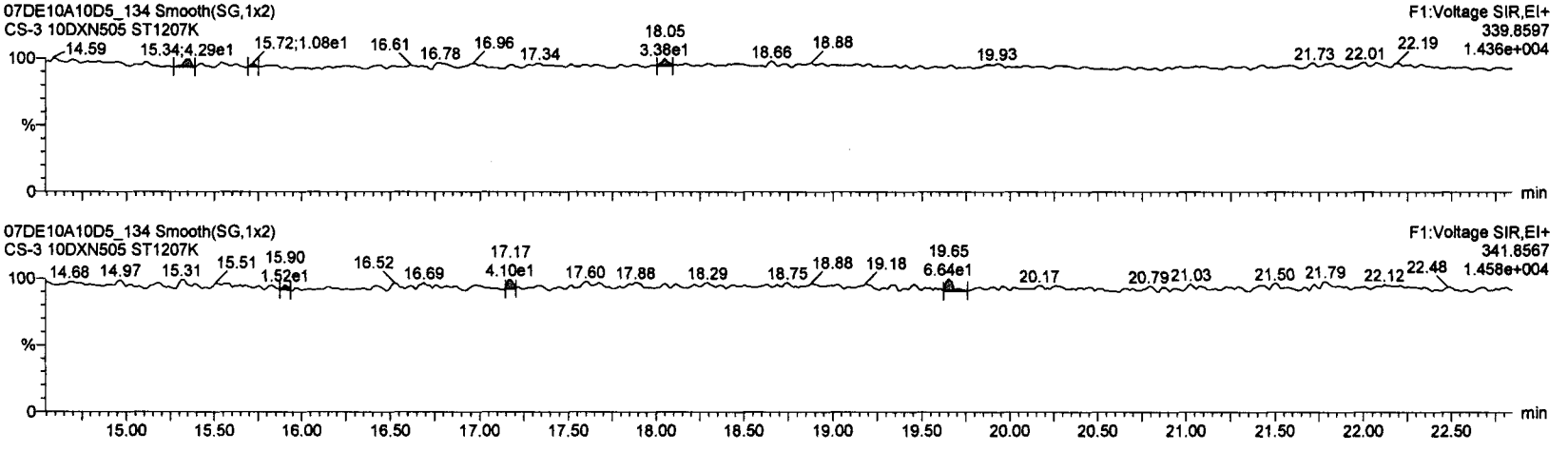
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

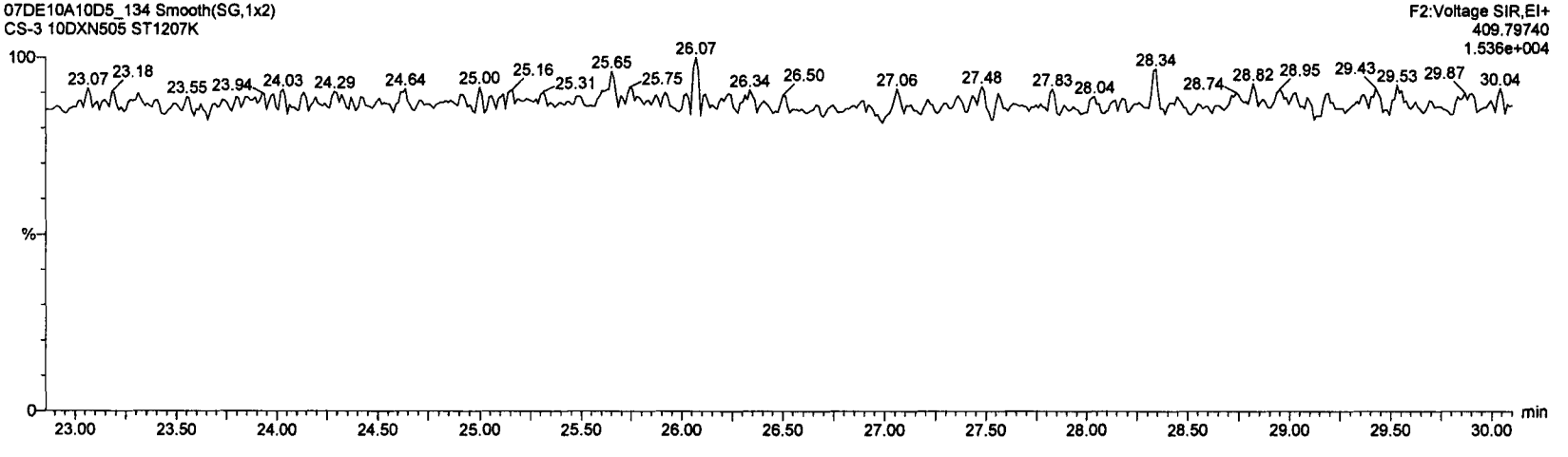
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

F1 PeCDFs



F1 PeCDF PCDPE



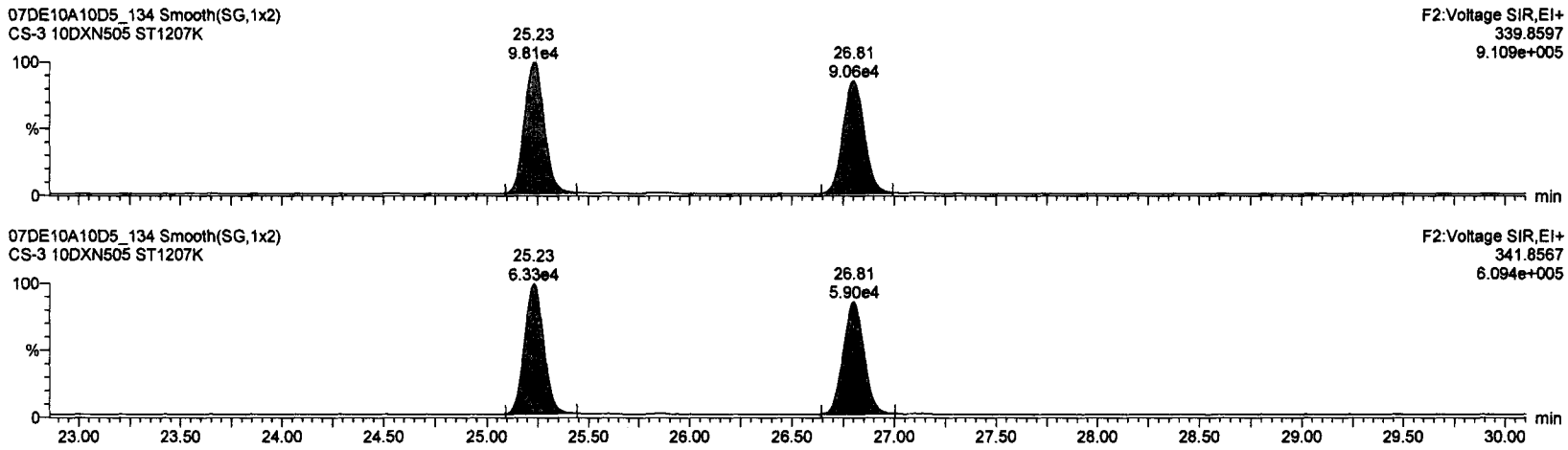
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

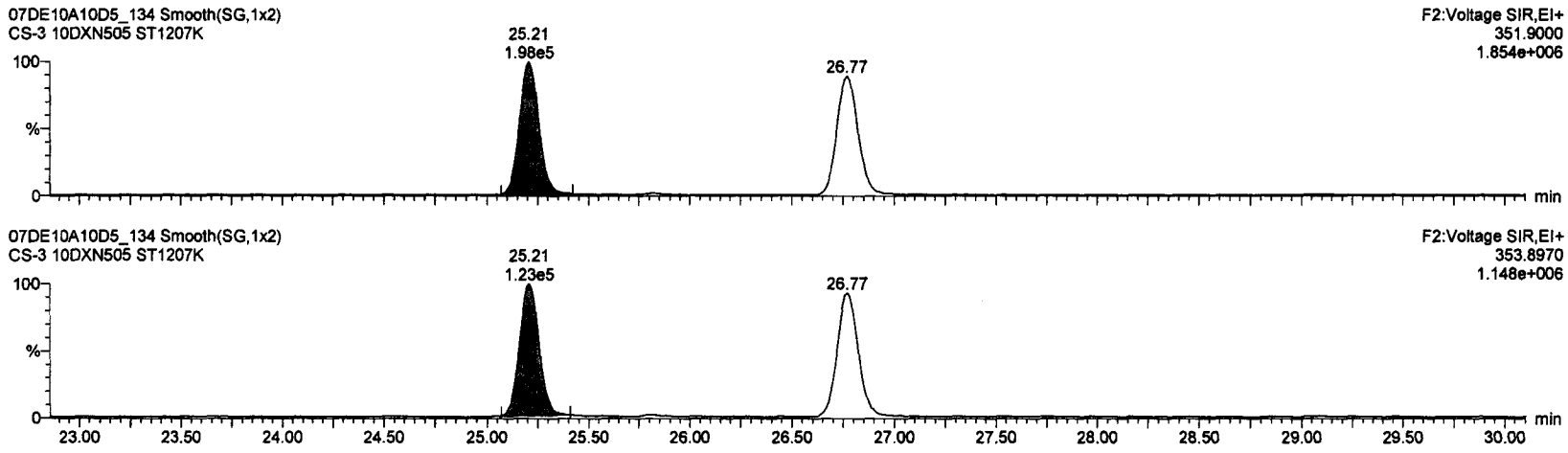
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

PeCDFs



13C-PeCDFs



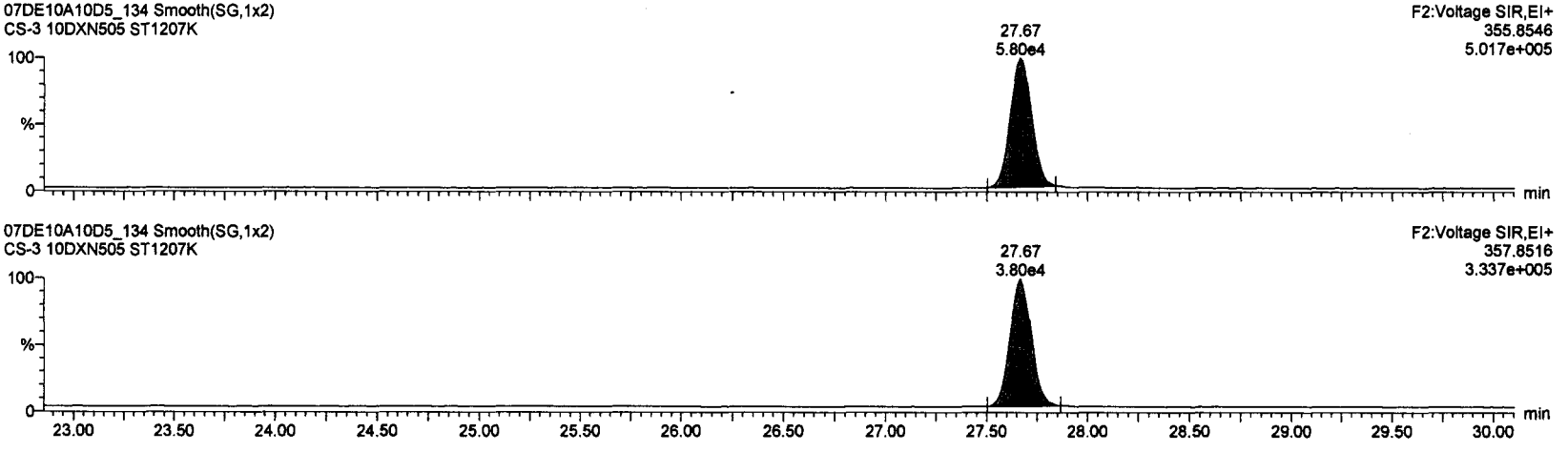
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

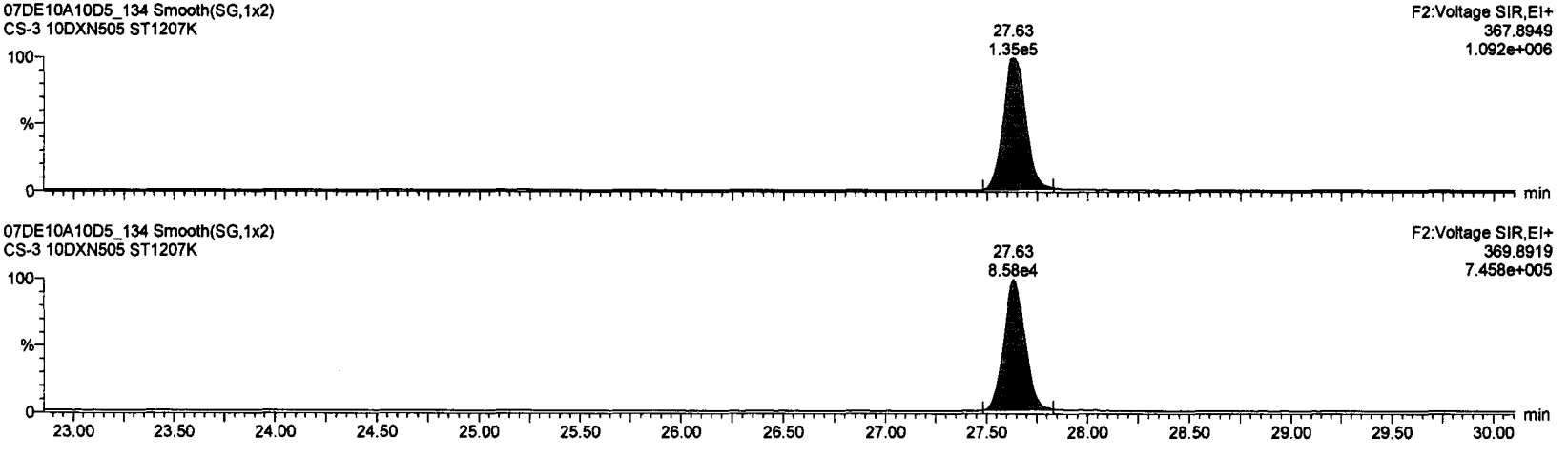
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

PeCDDs



13C-PeCDD



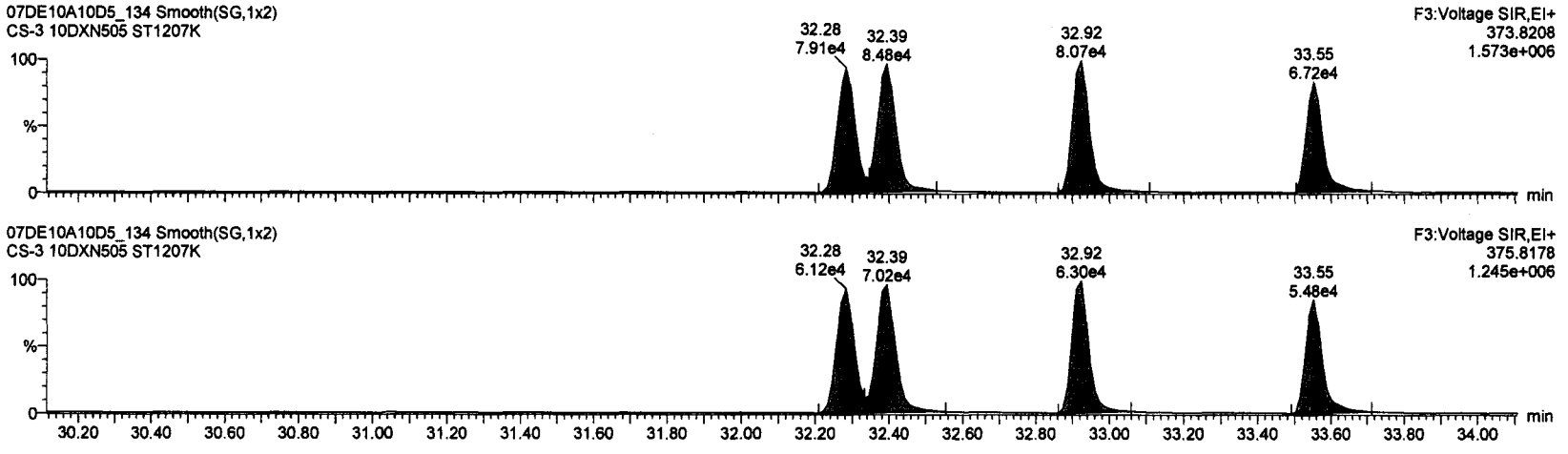
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

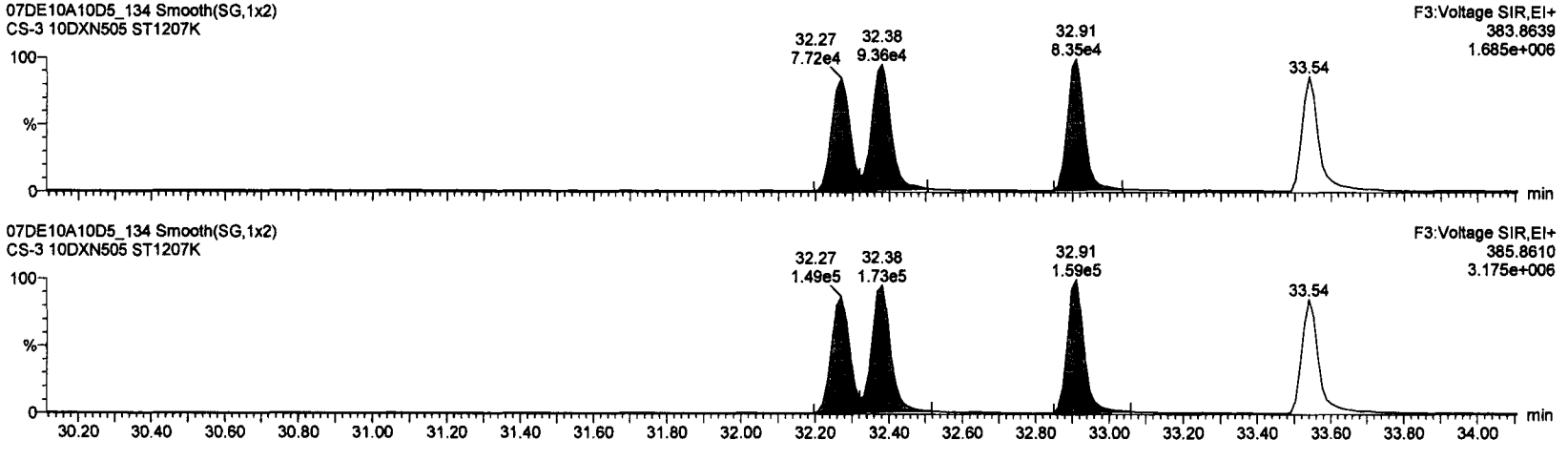
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HxCDFs



13C-HxCDFs



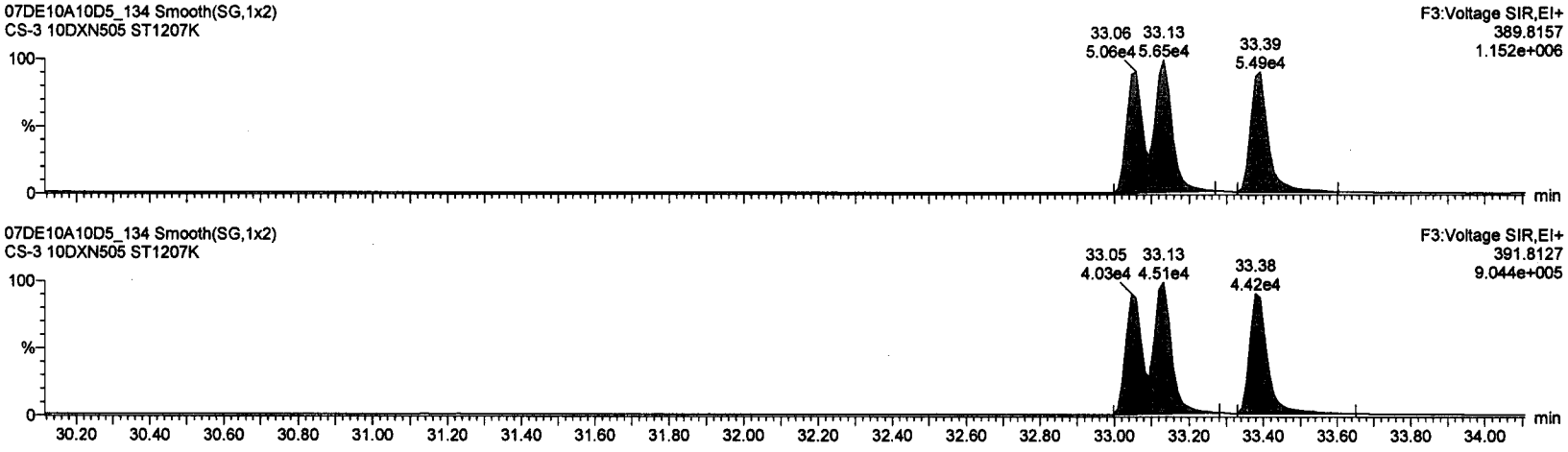
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

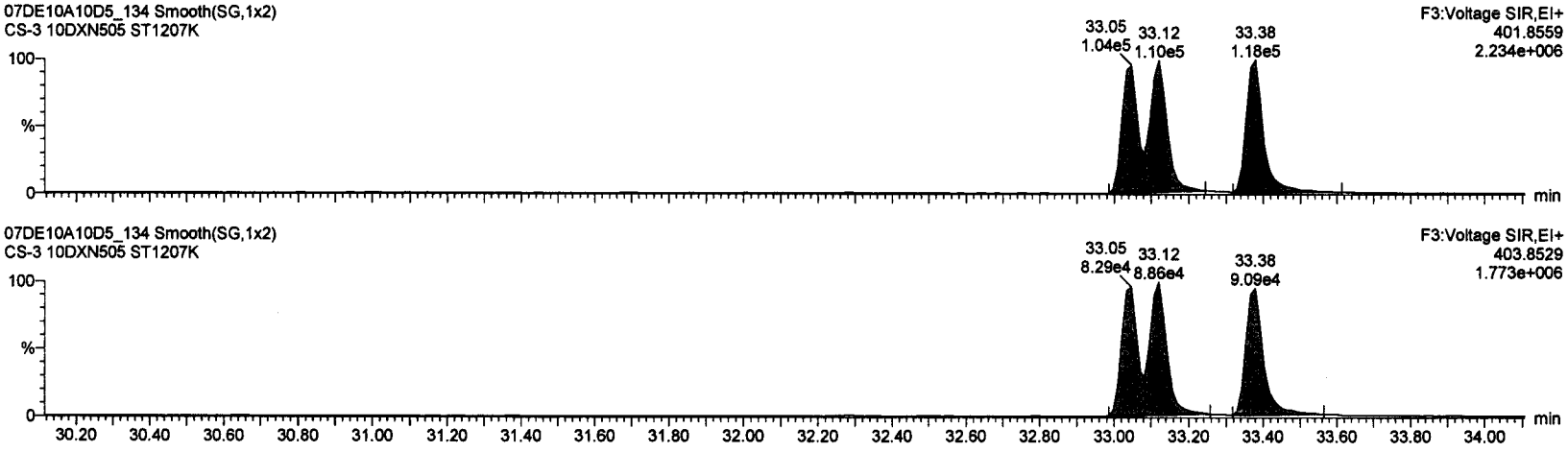
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HxCDDs



13C-1,2,3,6,7,8-HxCDD



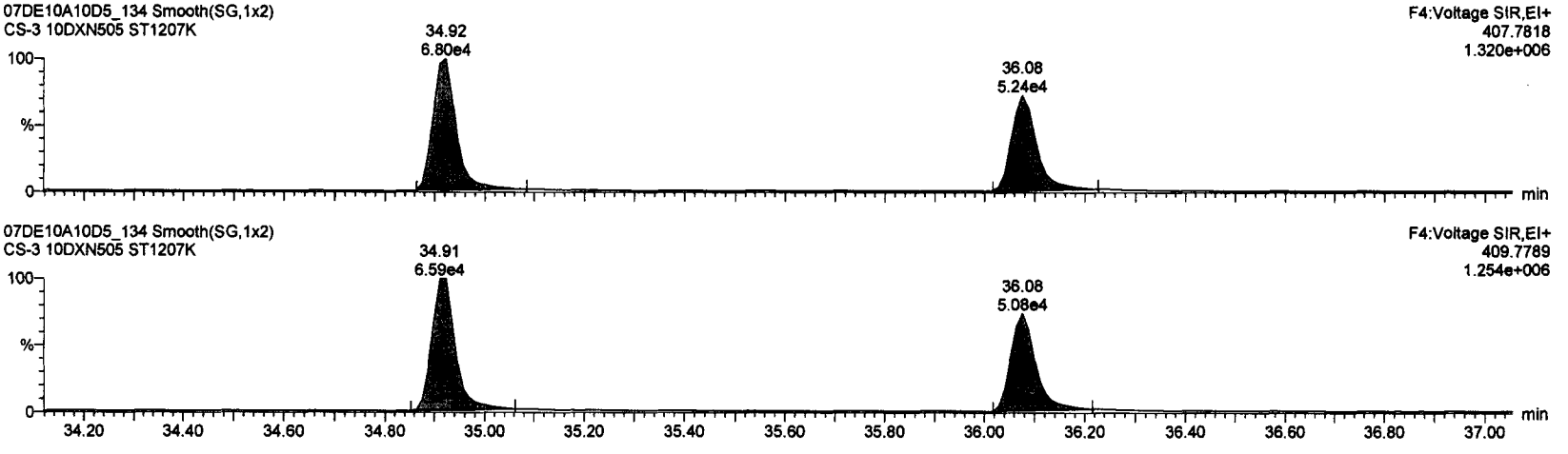
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

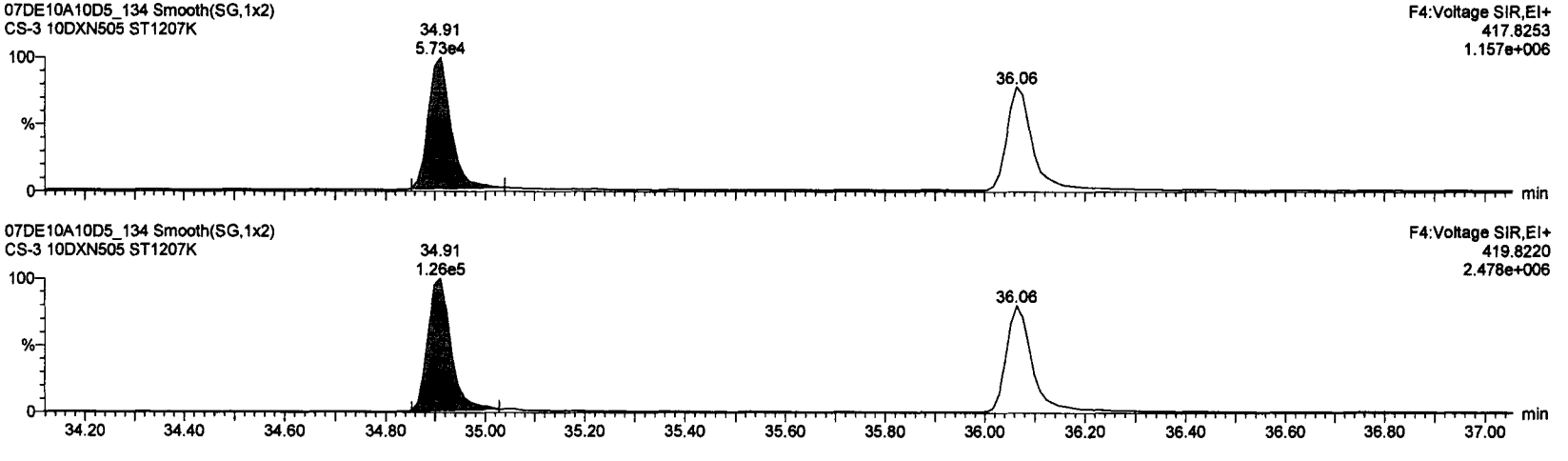
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

HpCDFs



13C-HpCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
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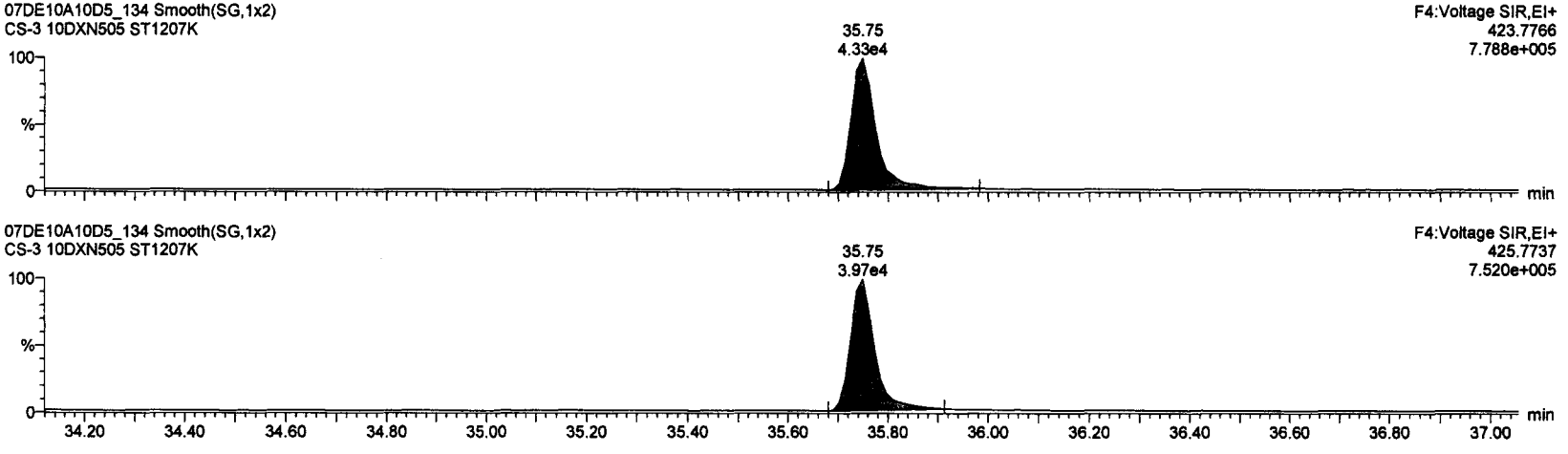
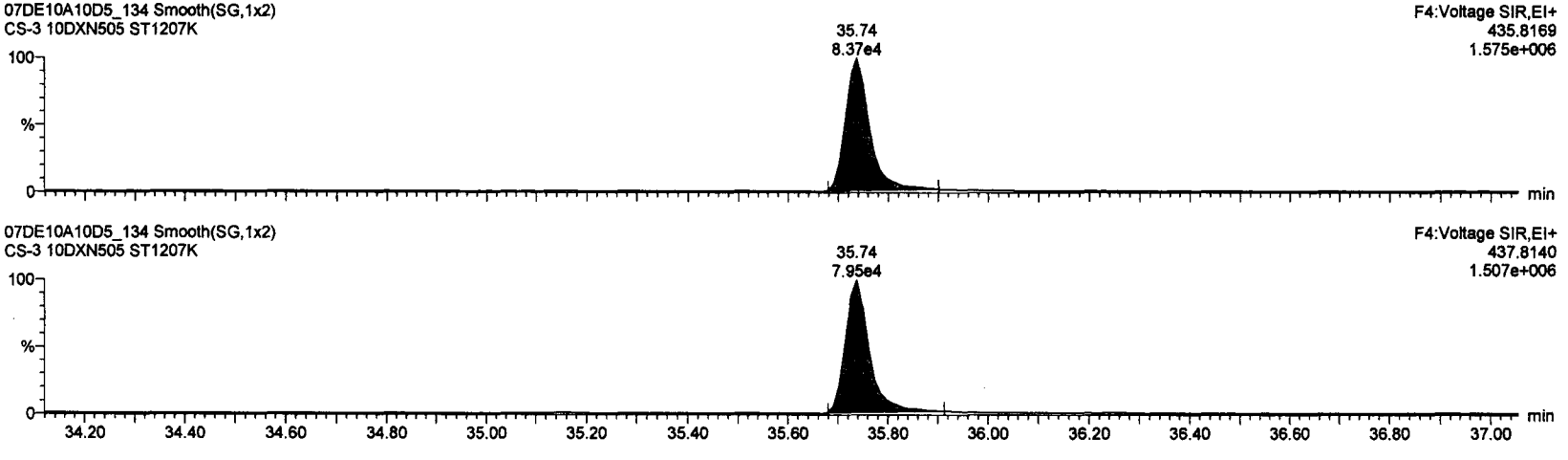
HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



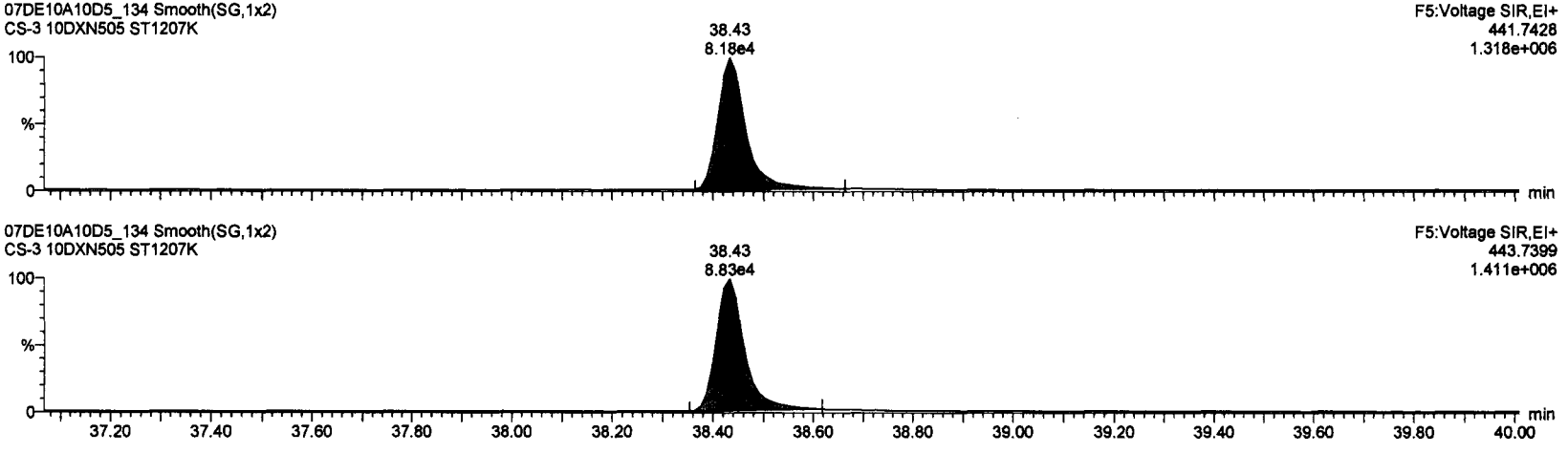
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

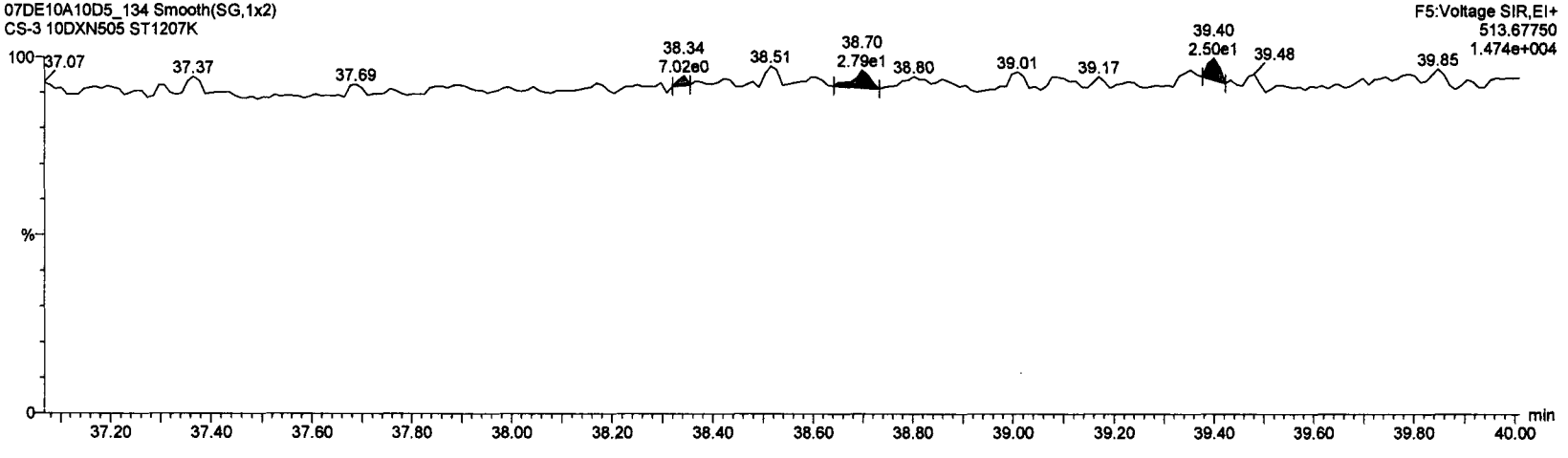
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDFs



OCDF PCDPE



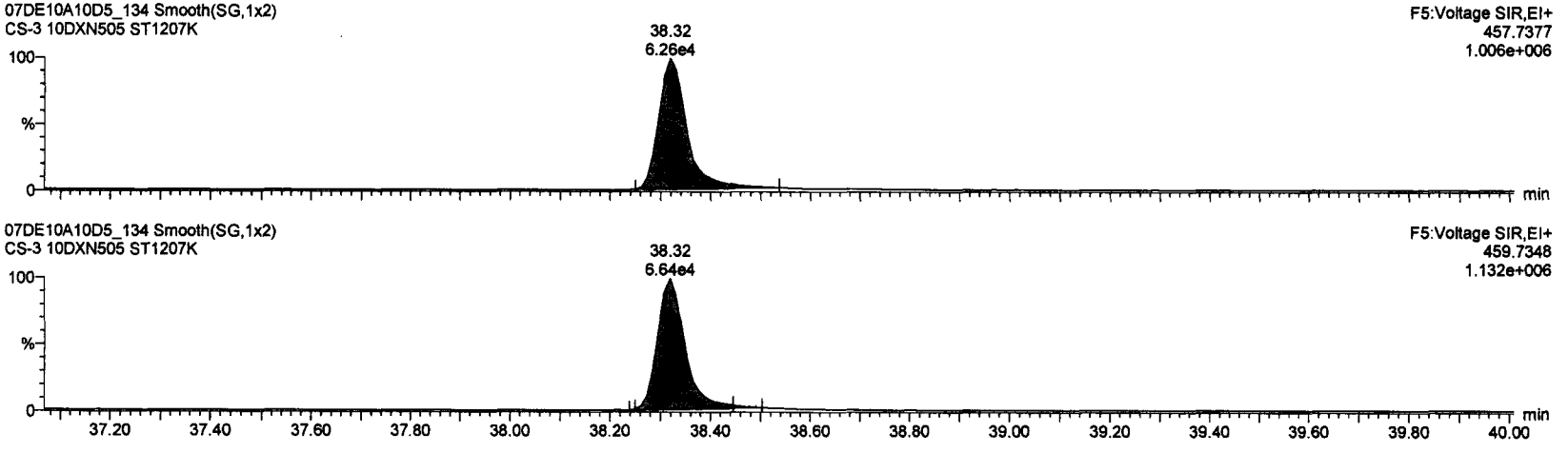
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

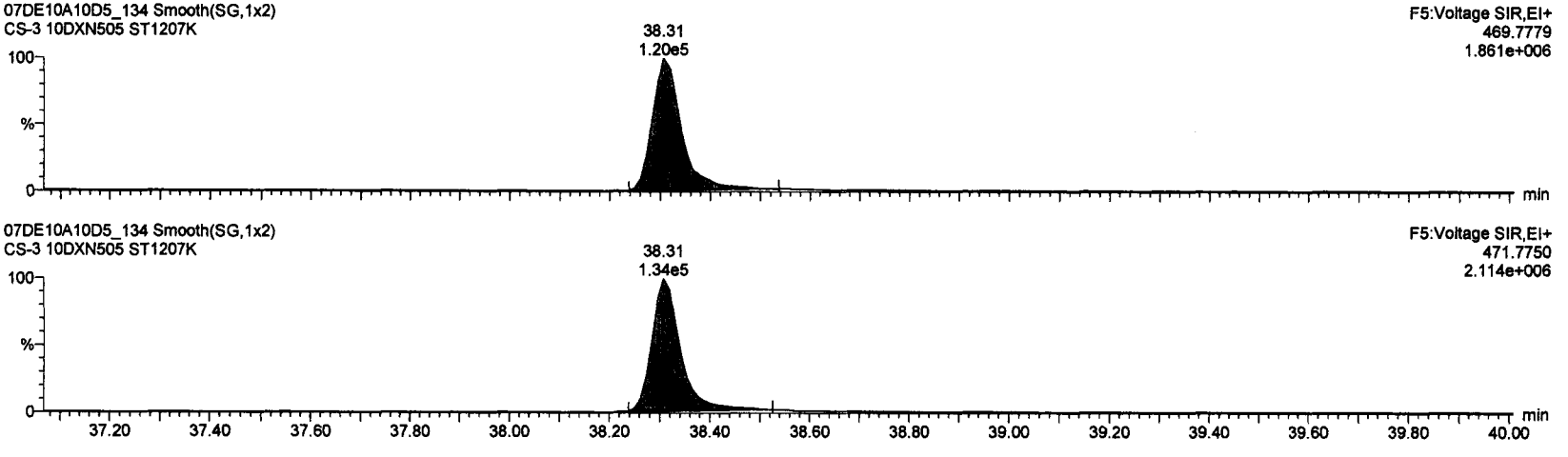
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDD



13C-OCDD



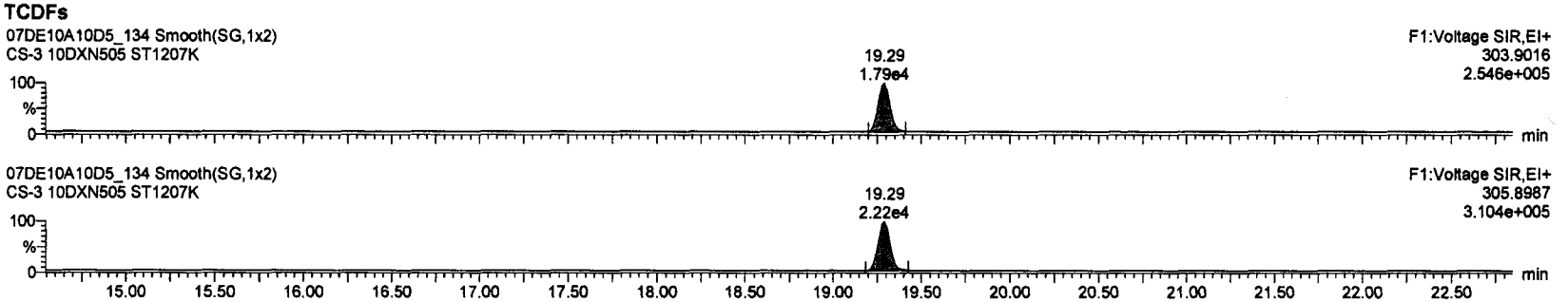
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

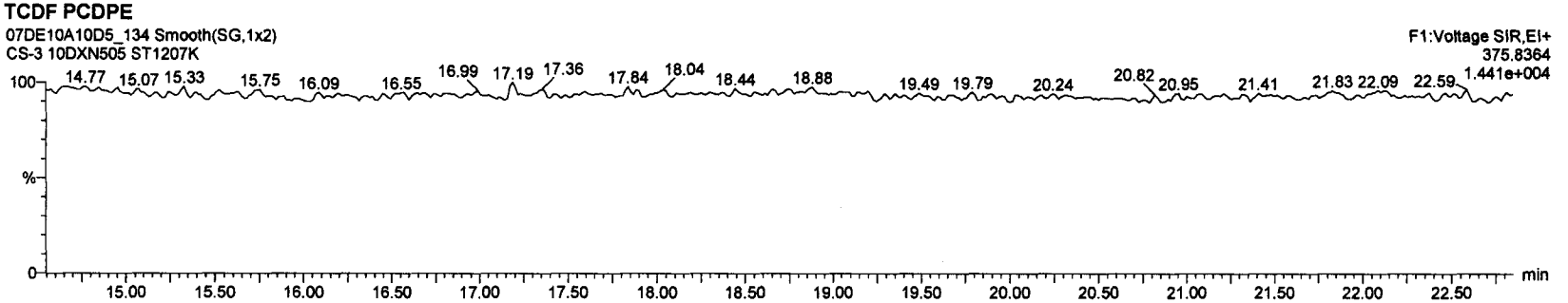
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

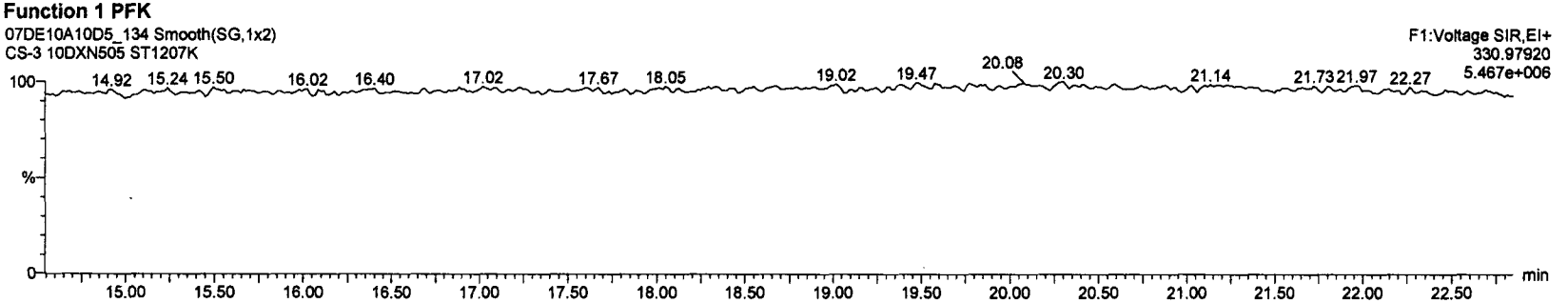
TCDFs



TCDF PCDPE



Function 1 PFK



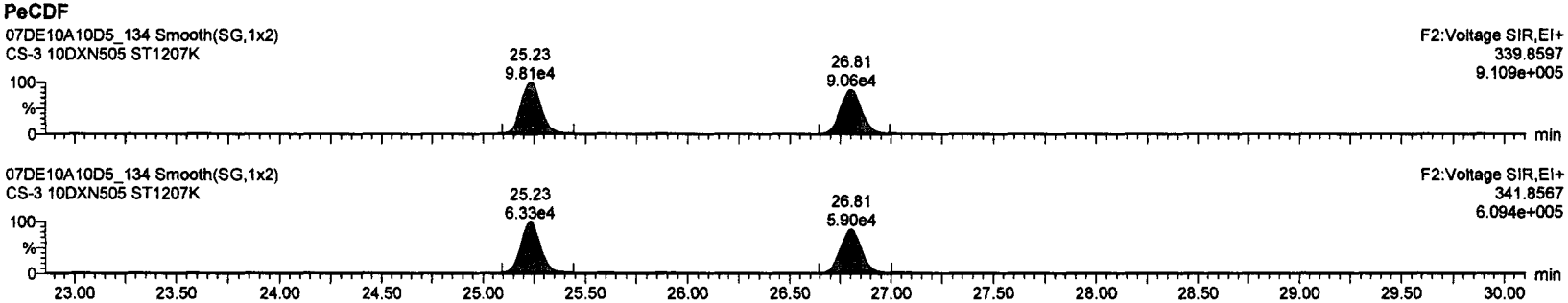
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

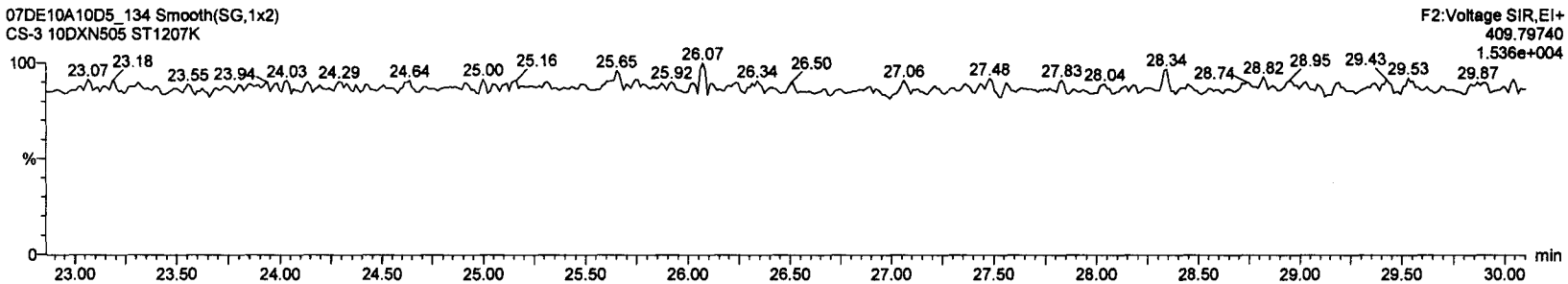
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

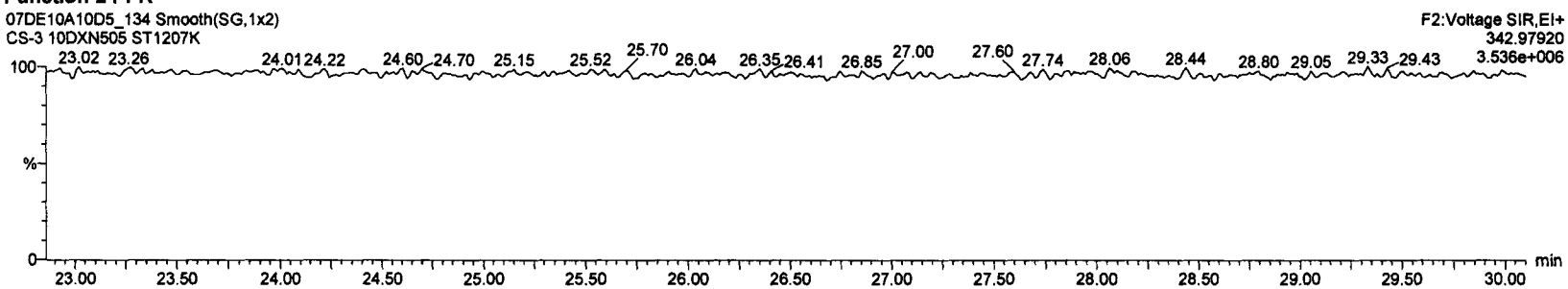
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



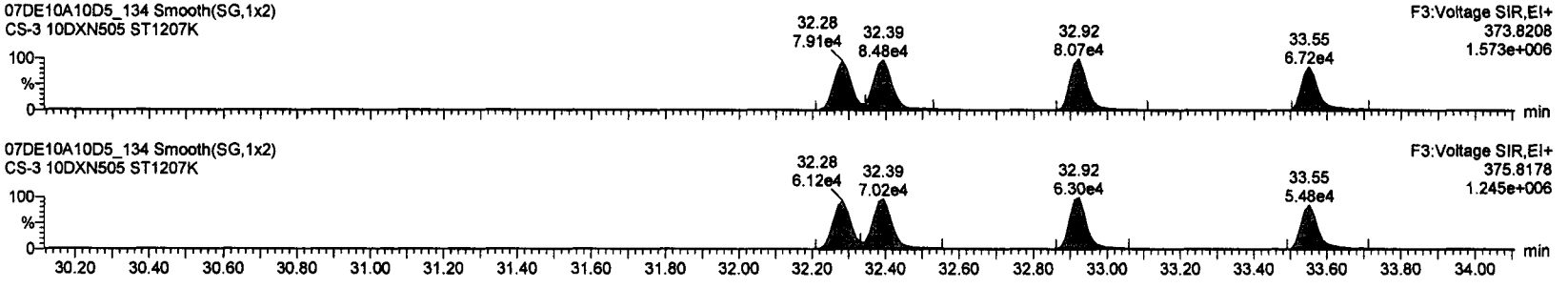
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

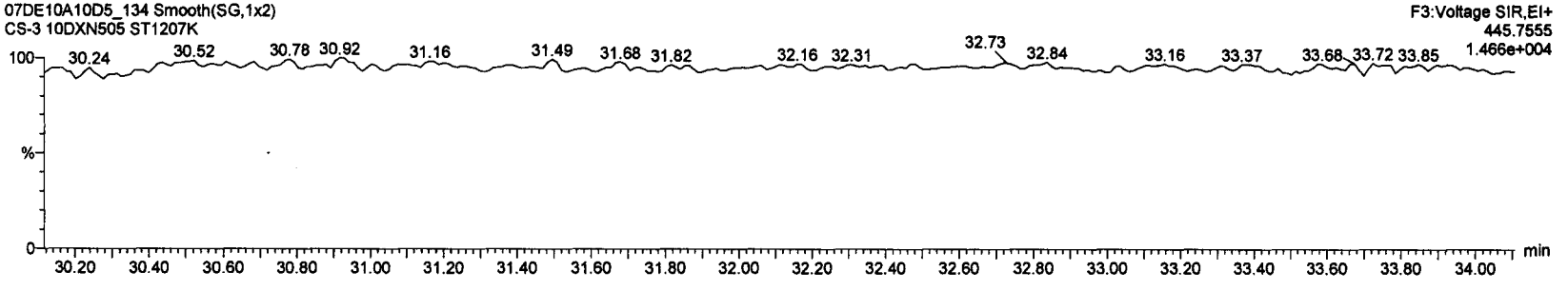
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

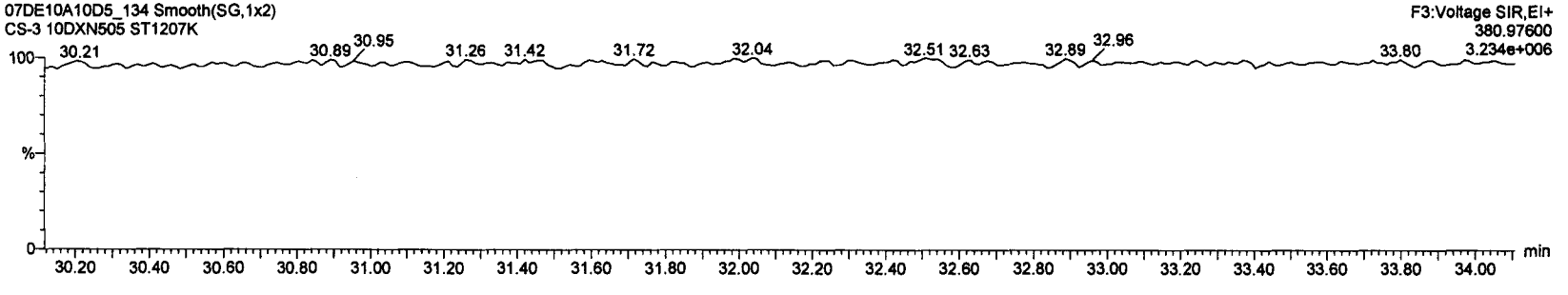
HxCDFs



HxCDF PCDPE



Function 3 PFK



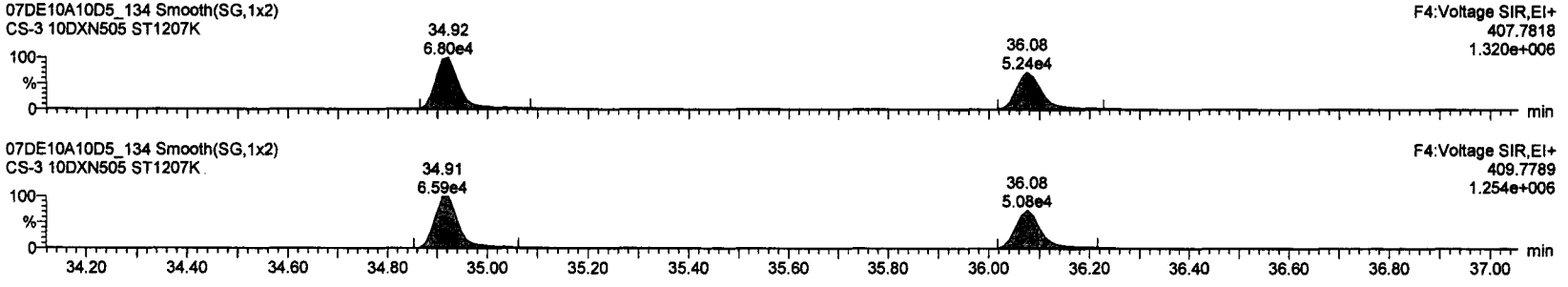
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

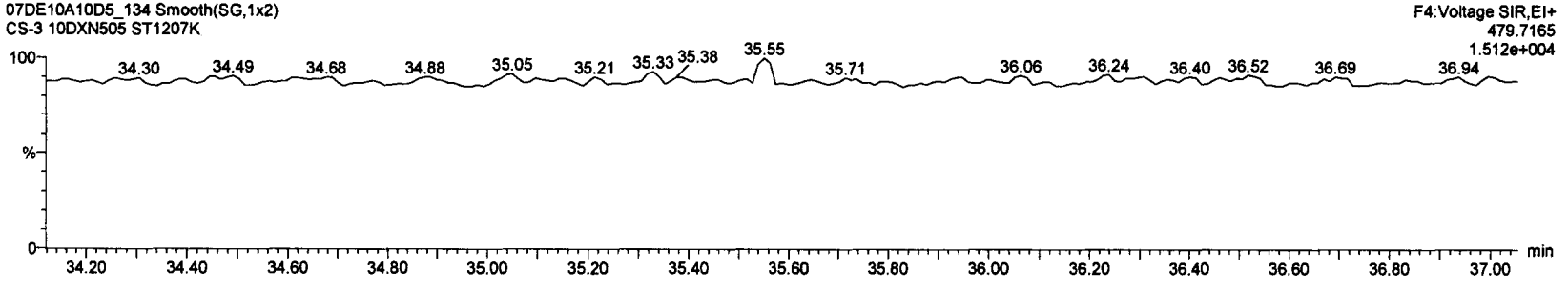
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

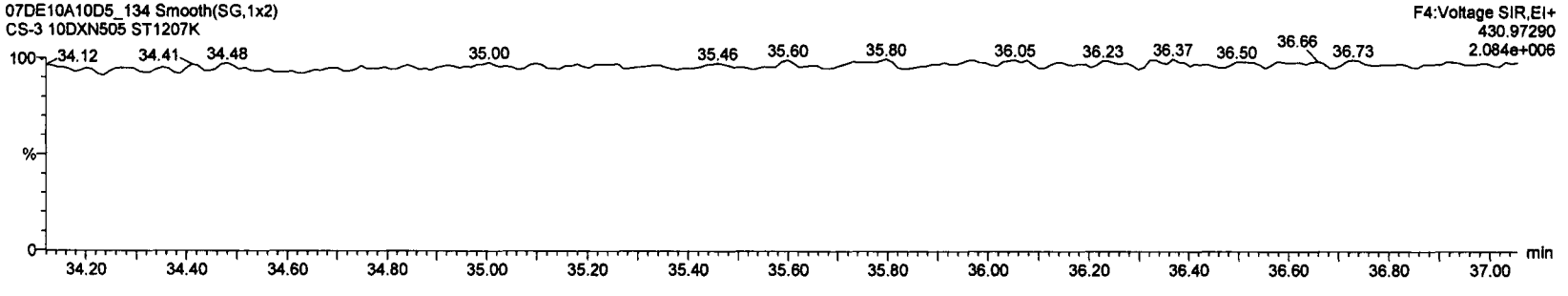
HpCDFs



HpCDF PCDPE



Function 4 PFK



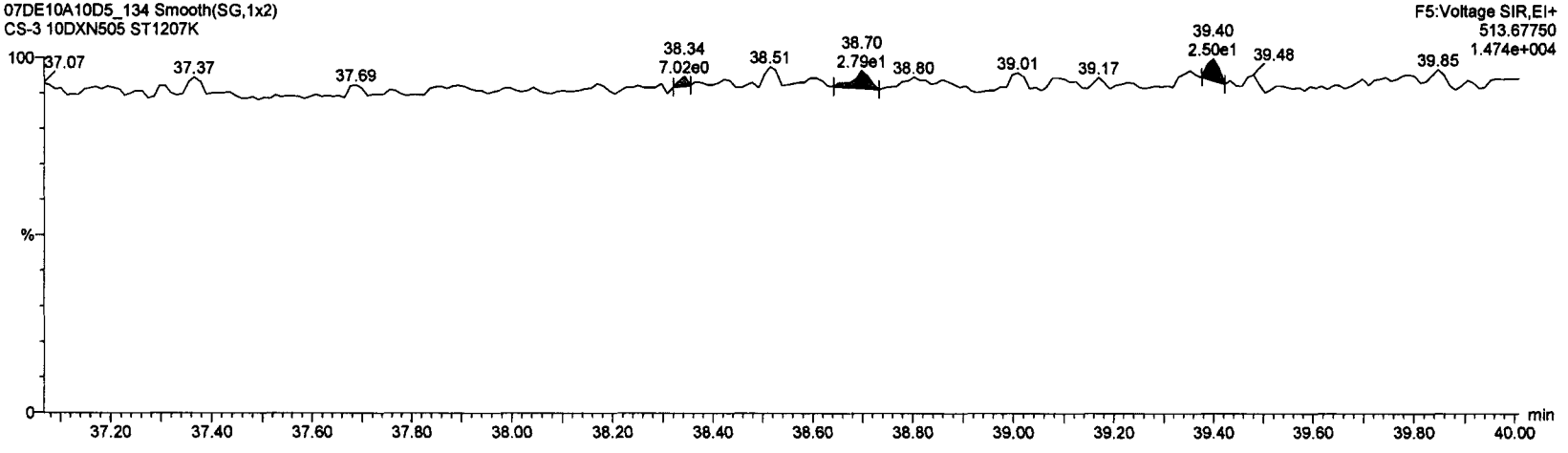
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

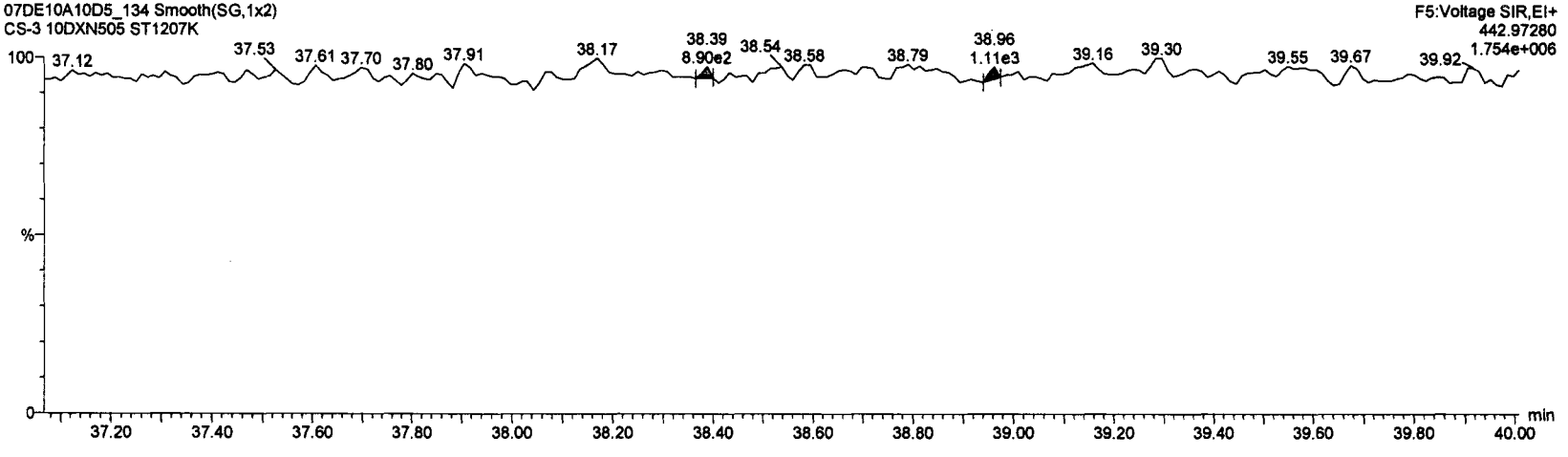
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_134, Date: 11-Dec-2010, Time: 22:02:45, ID: ST1207K, Description: CS-3 10DXN505

OCDF PCDPE



Function 5 PFK



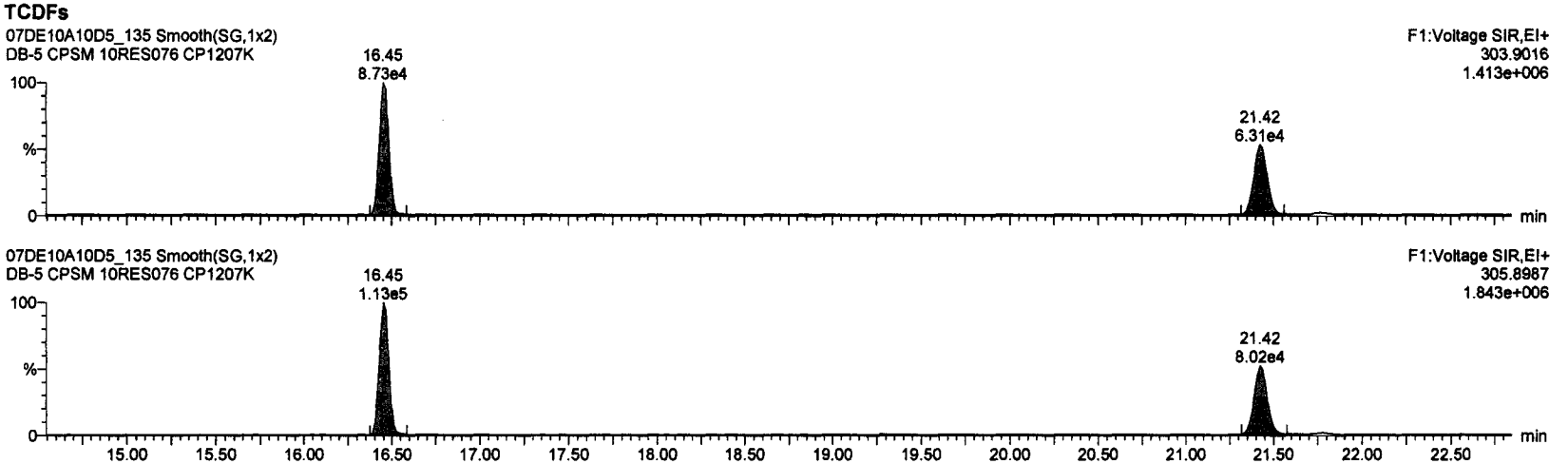
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

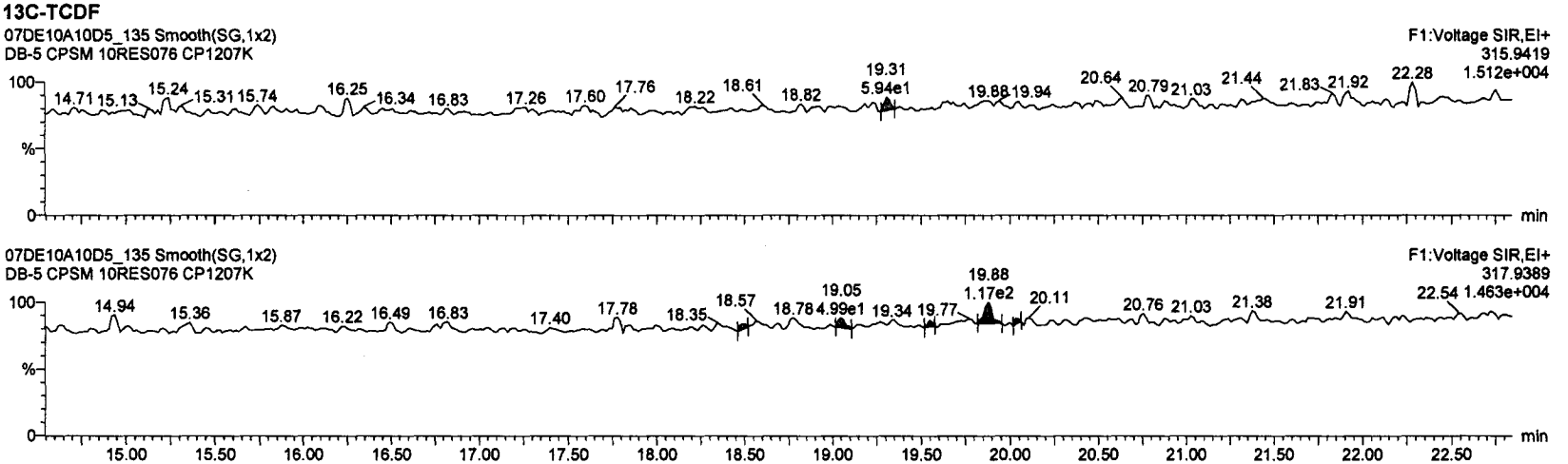
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

TCDFs



13C-TCDF



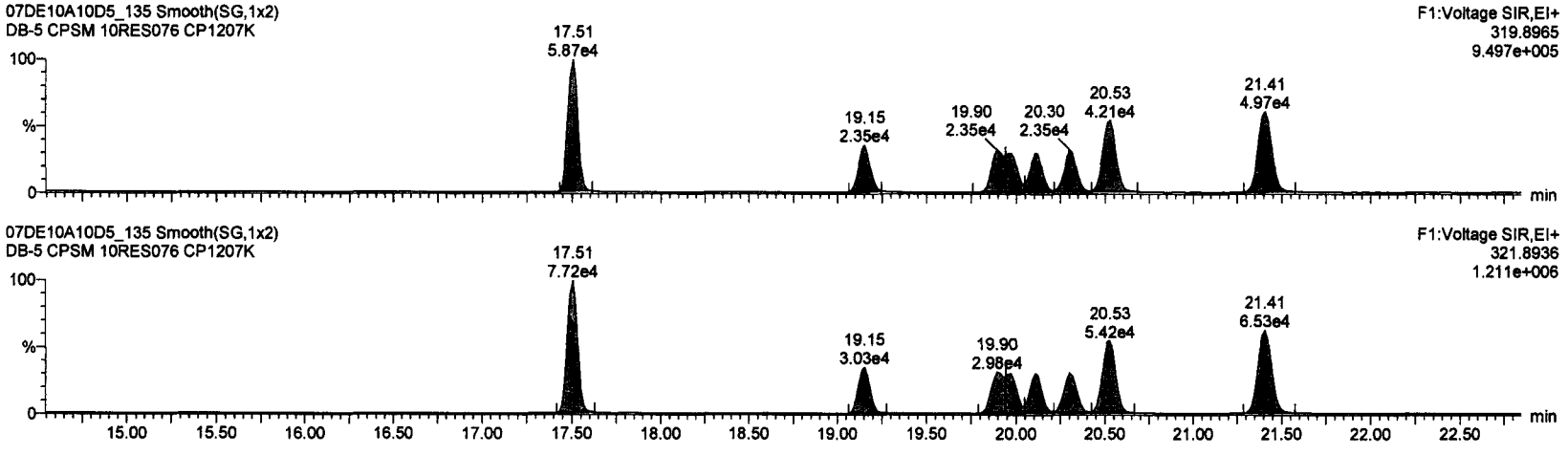
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

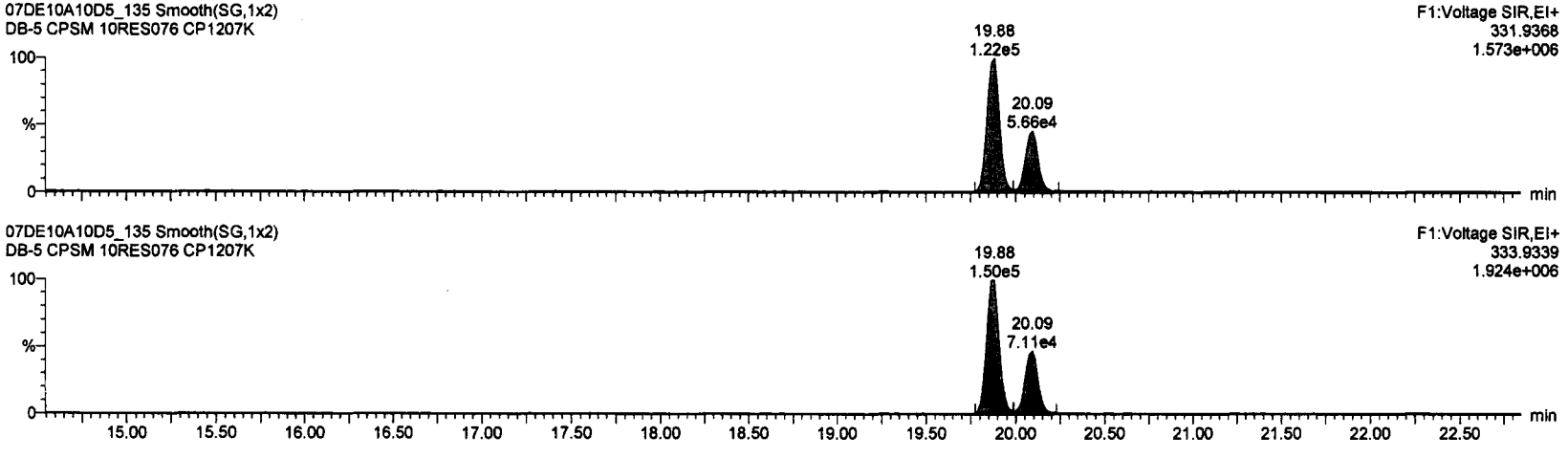
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

TCDDs



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

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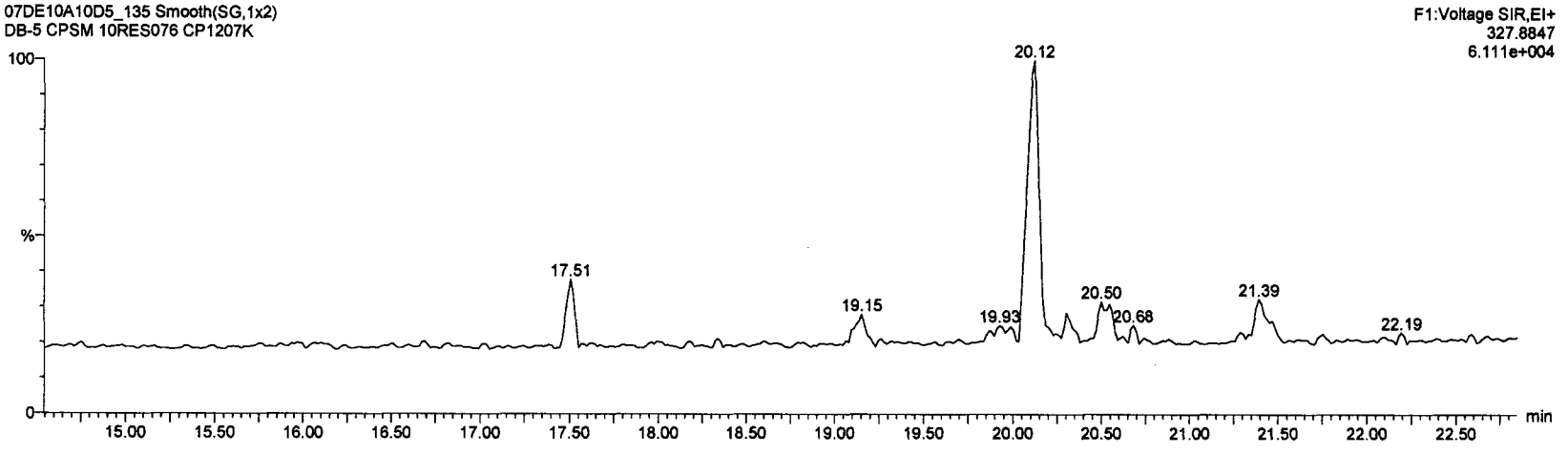
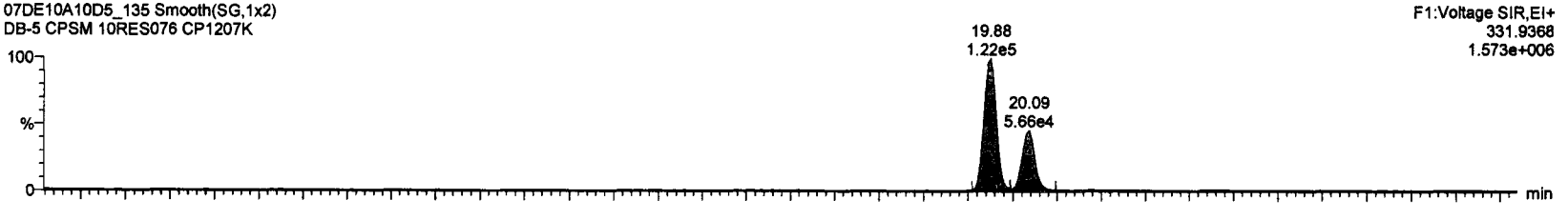
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

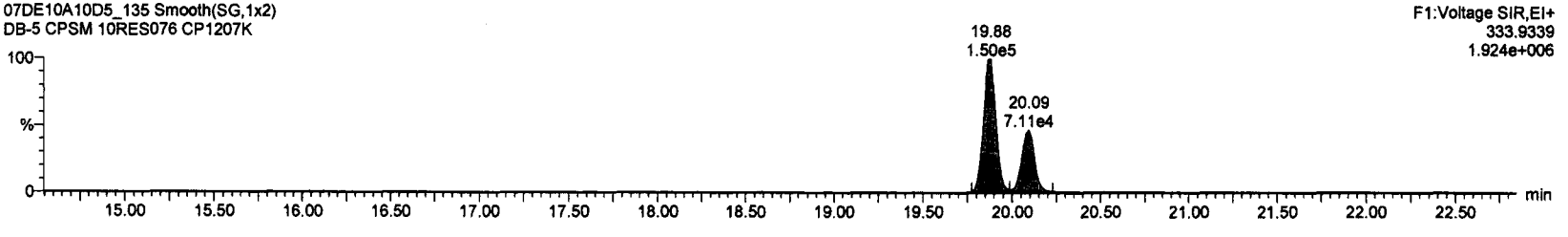
Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

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



13C-TCDDs





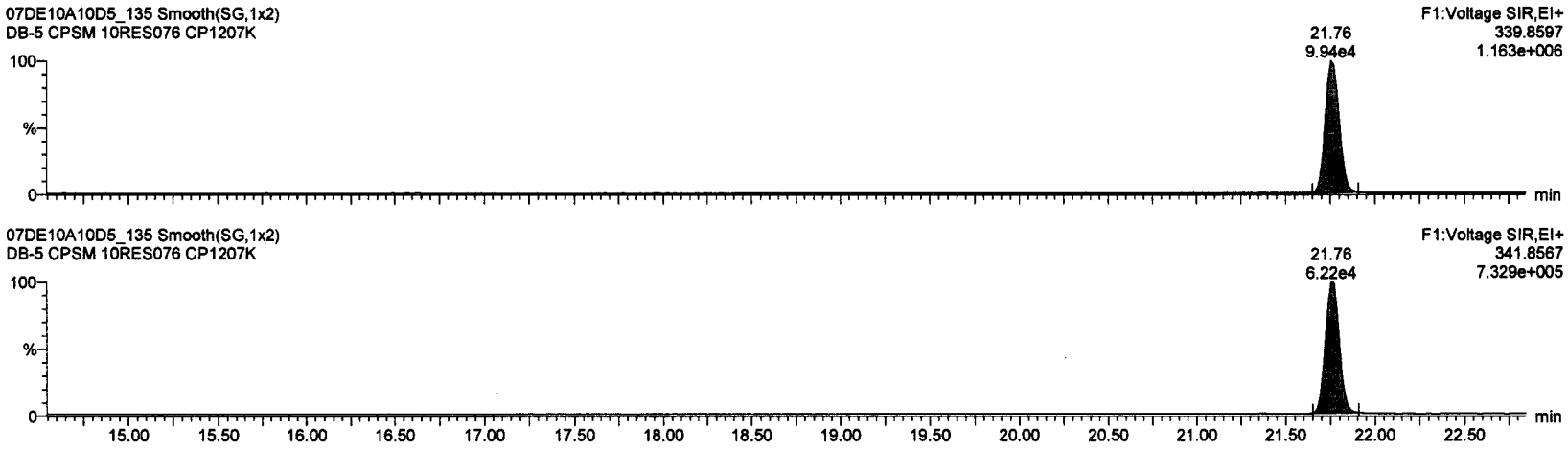
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

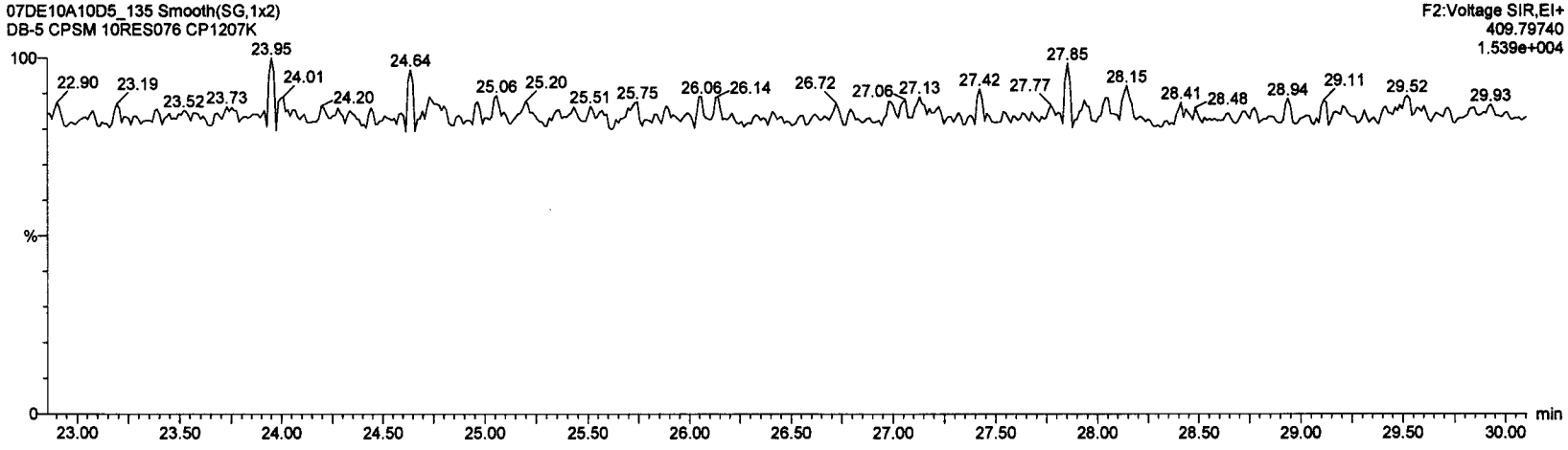
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

F1 PeCDFs



F1 PeCDF PCDPE



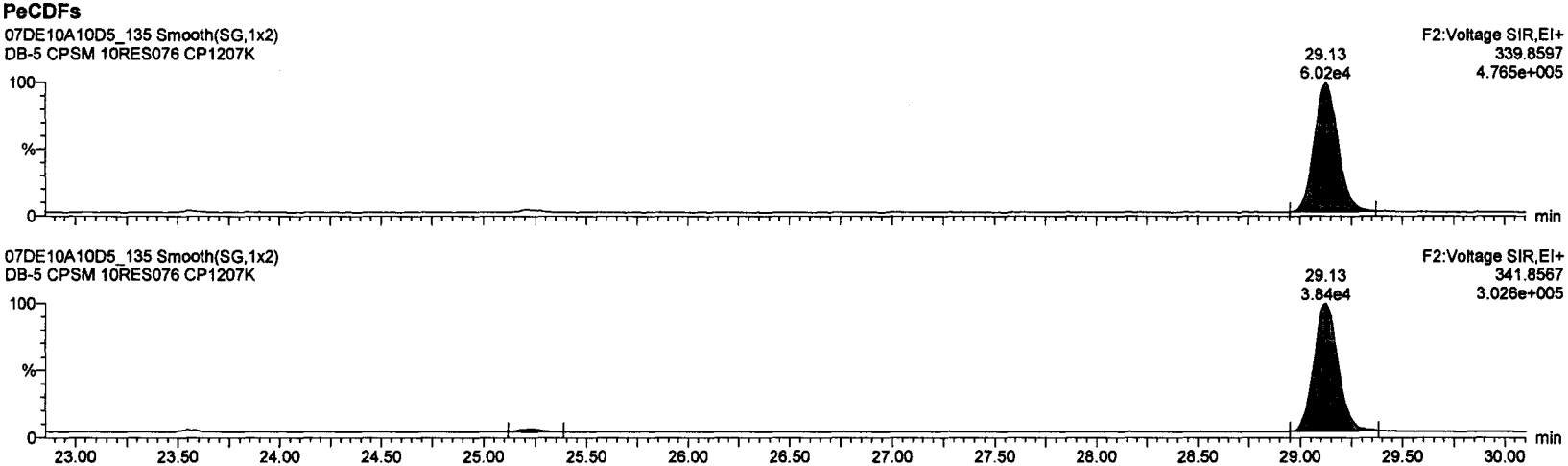
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

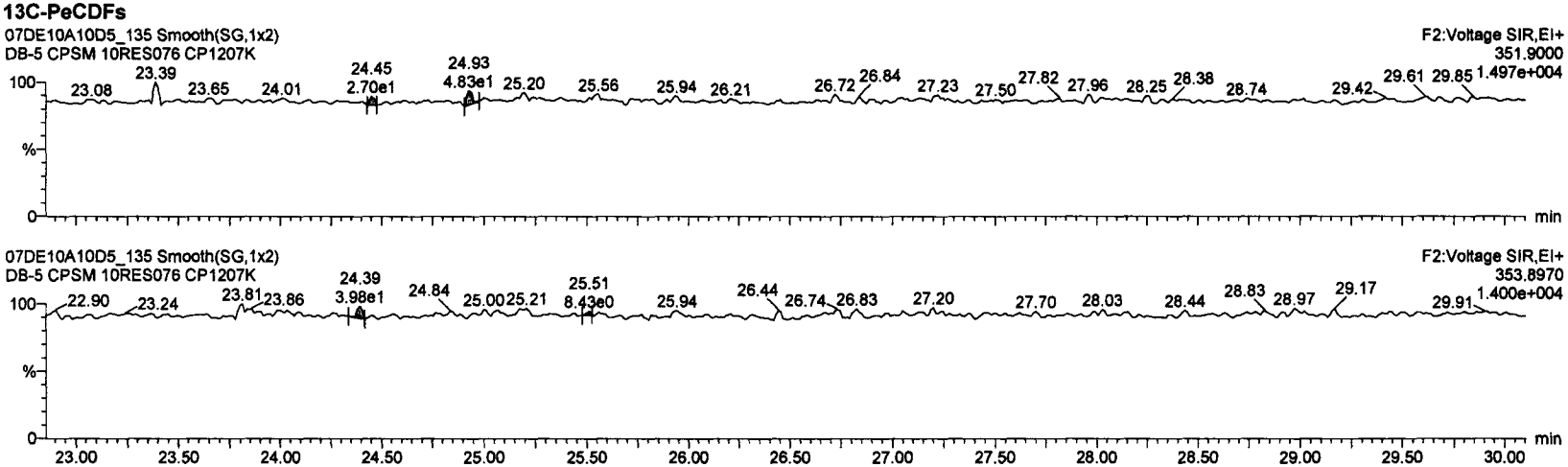
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

PeCDFs



13C-PeCDFs



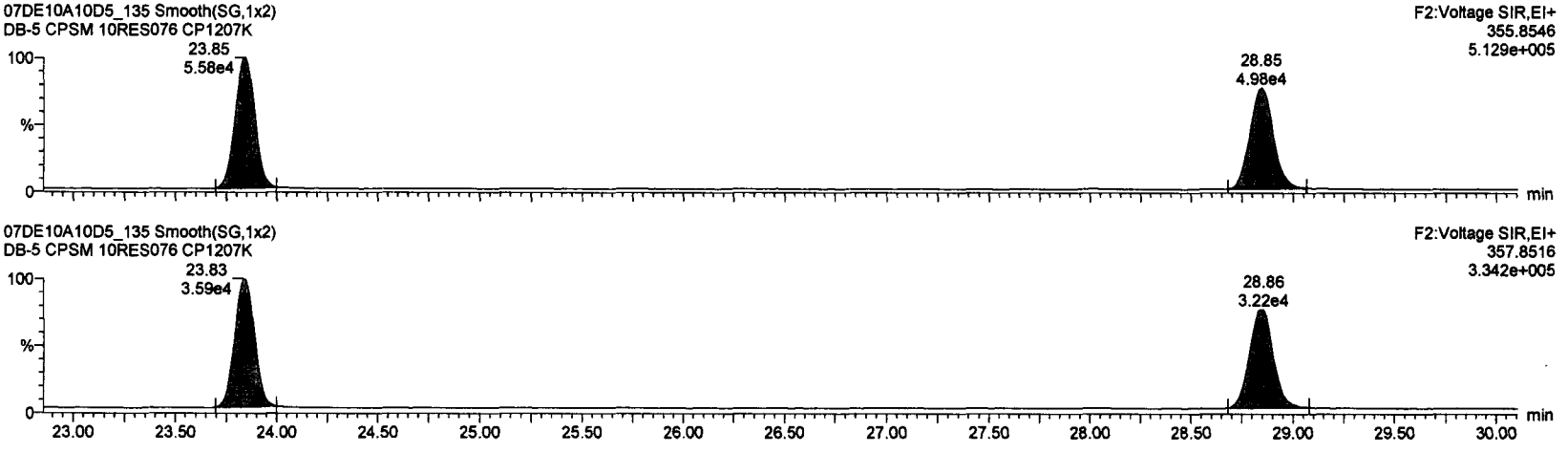
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

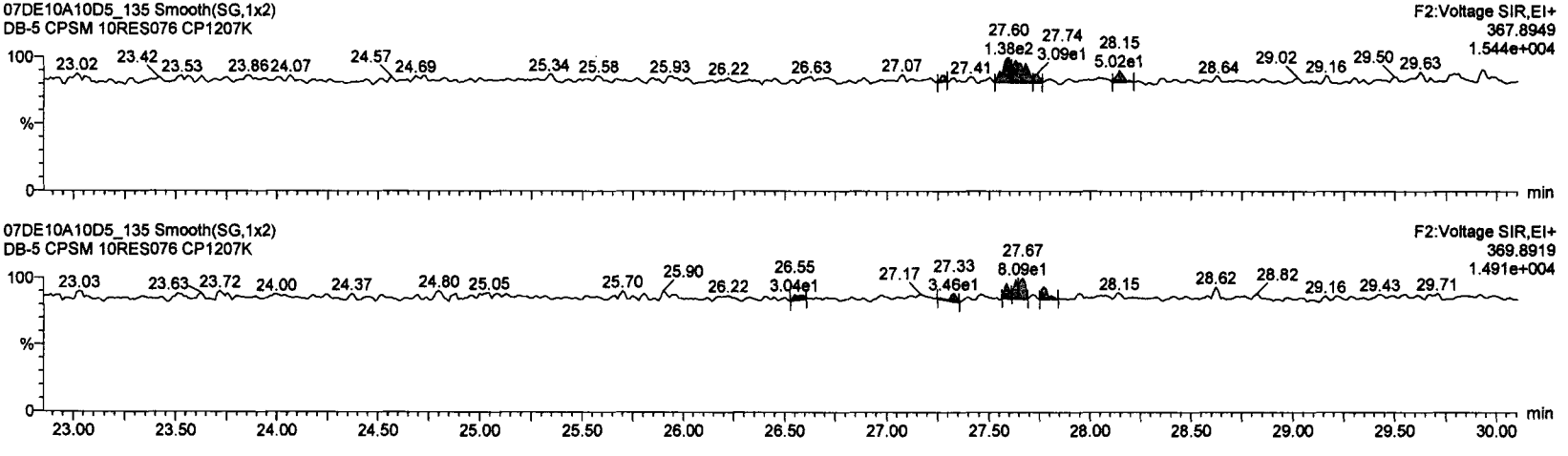
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

PeCDDs



13C-PeCDD



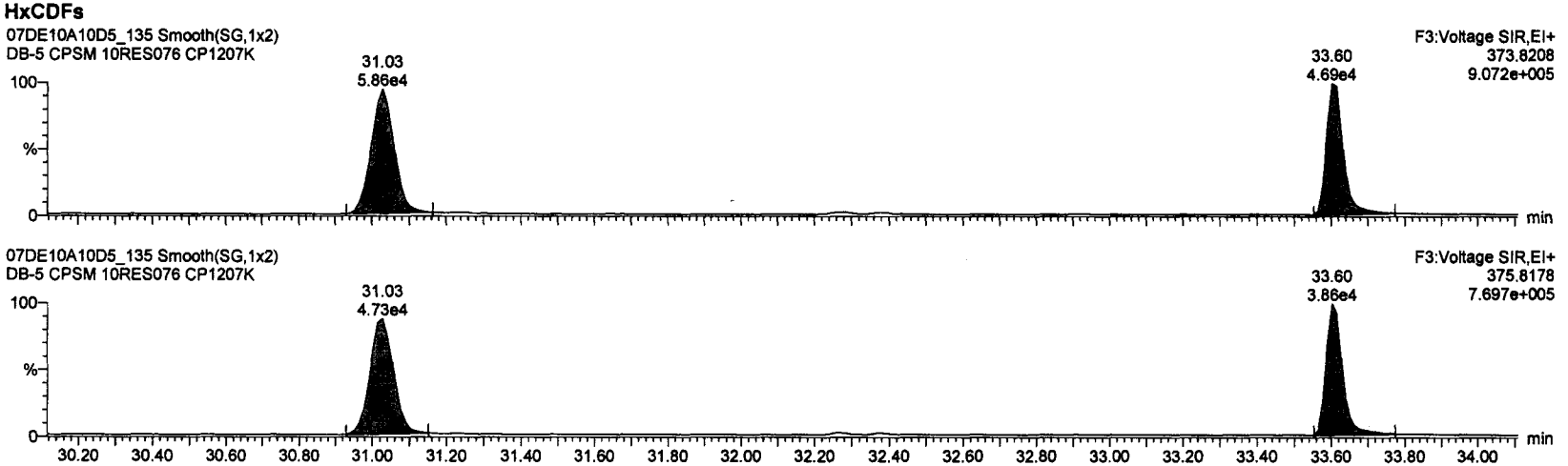
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

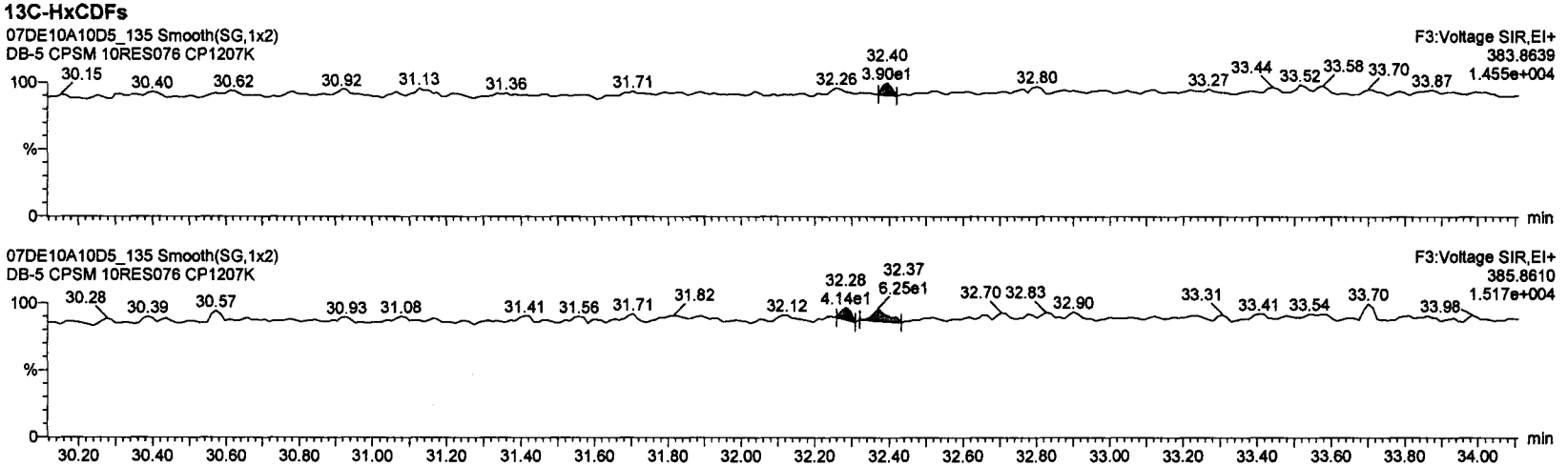
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

HxCDFs



13C-HxCDFs



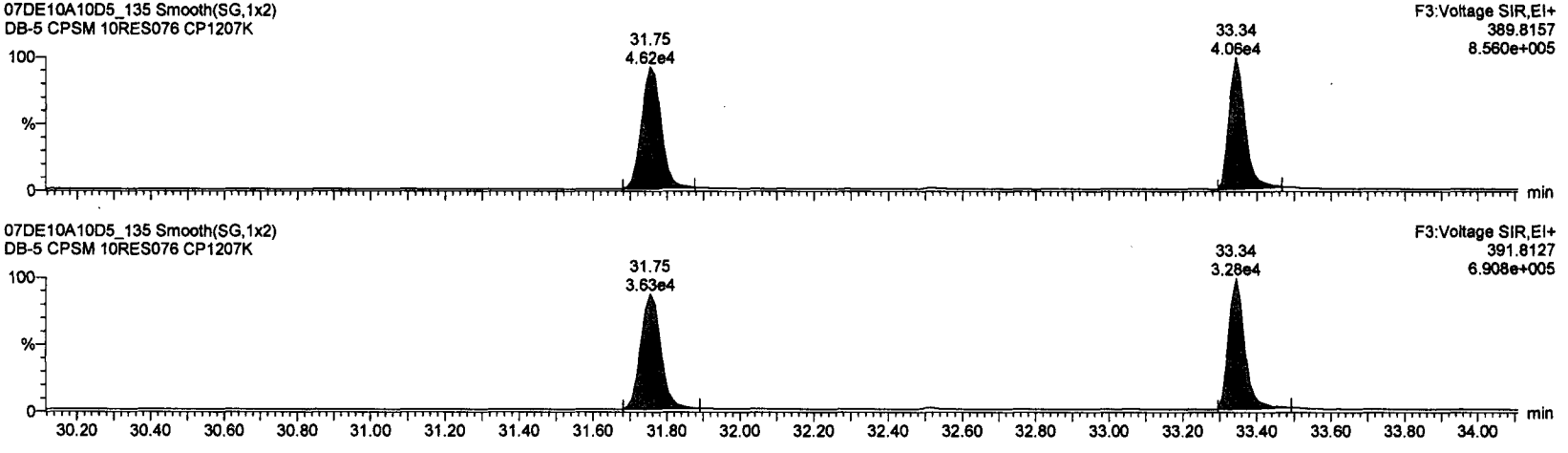
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

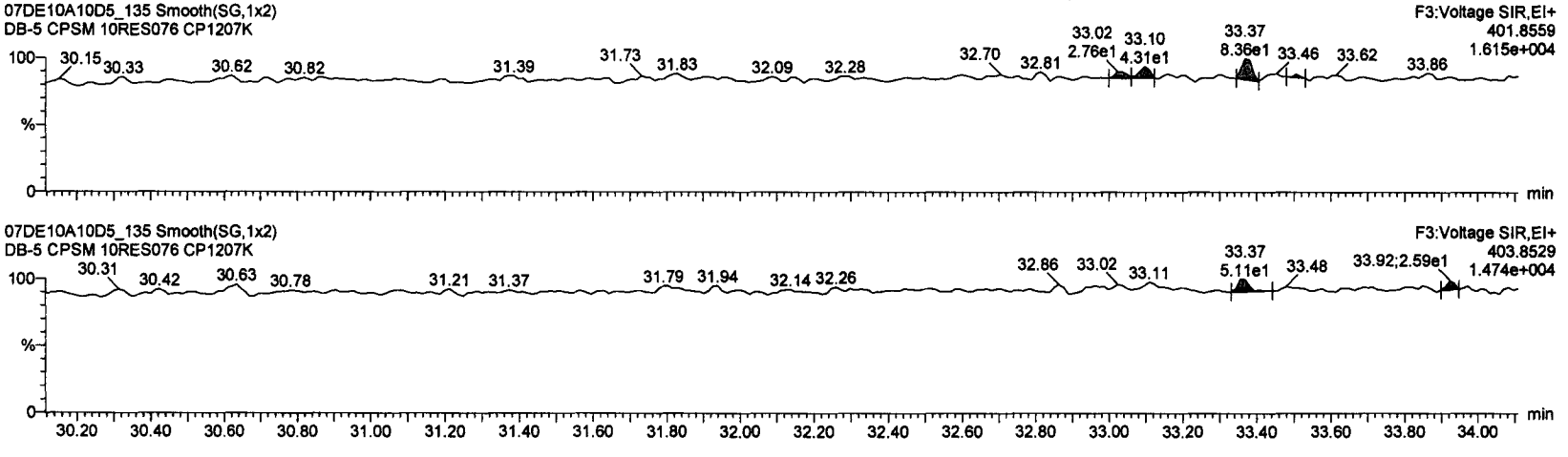
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

HxCDDs



13C-1,2,3,6,7,8-HxCDD



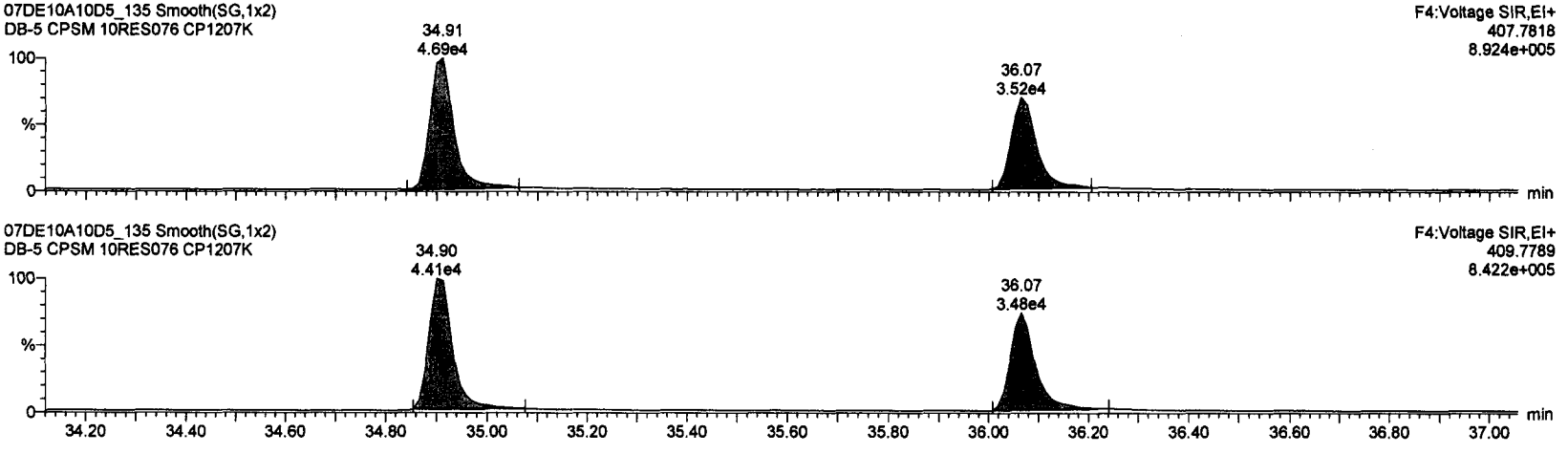
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

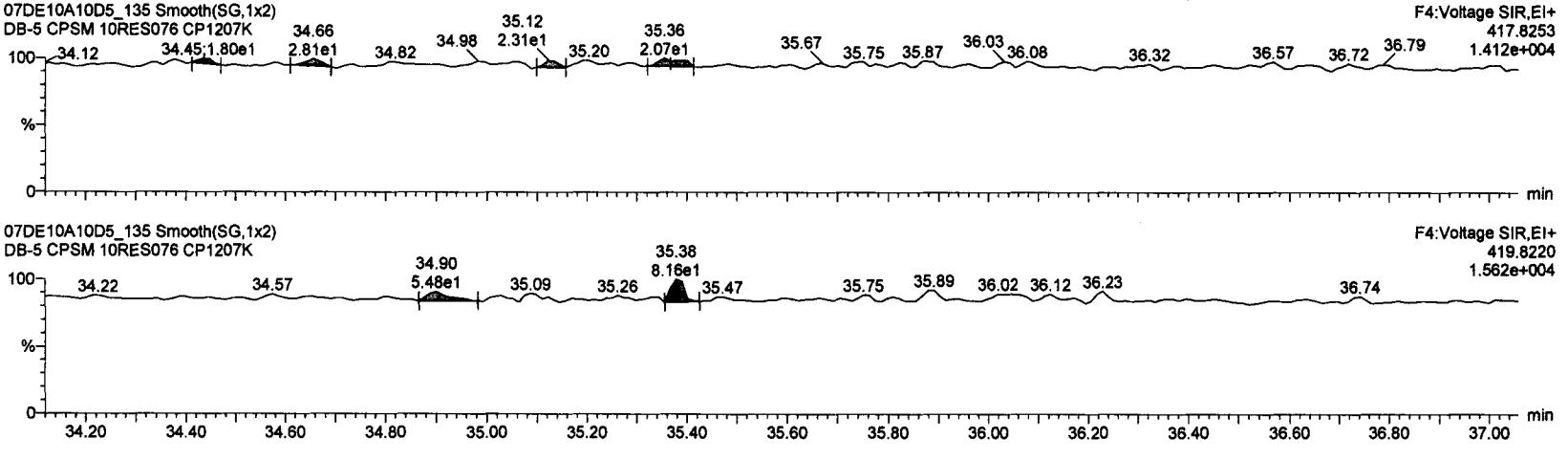
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

HpCDFs



13C-HpCDFs



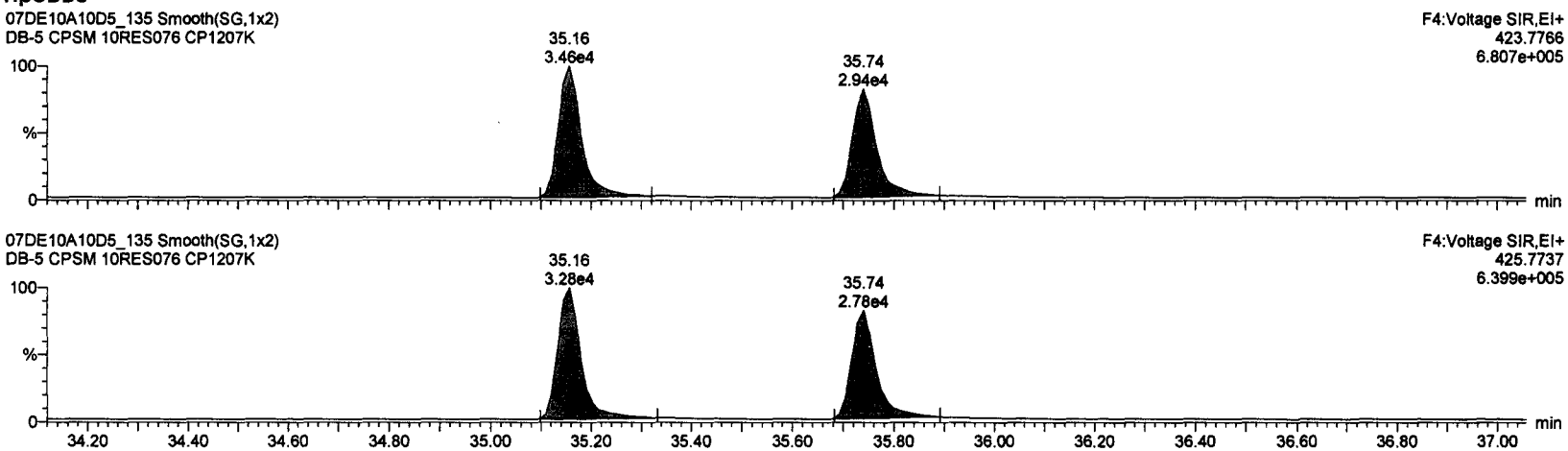
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

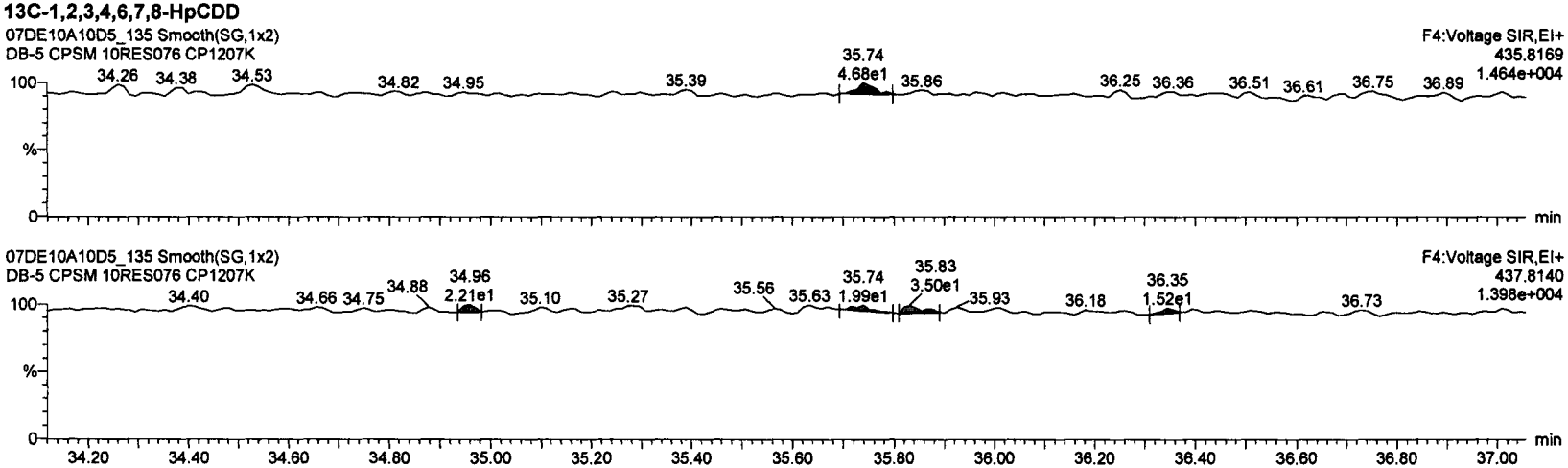
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



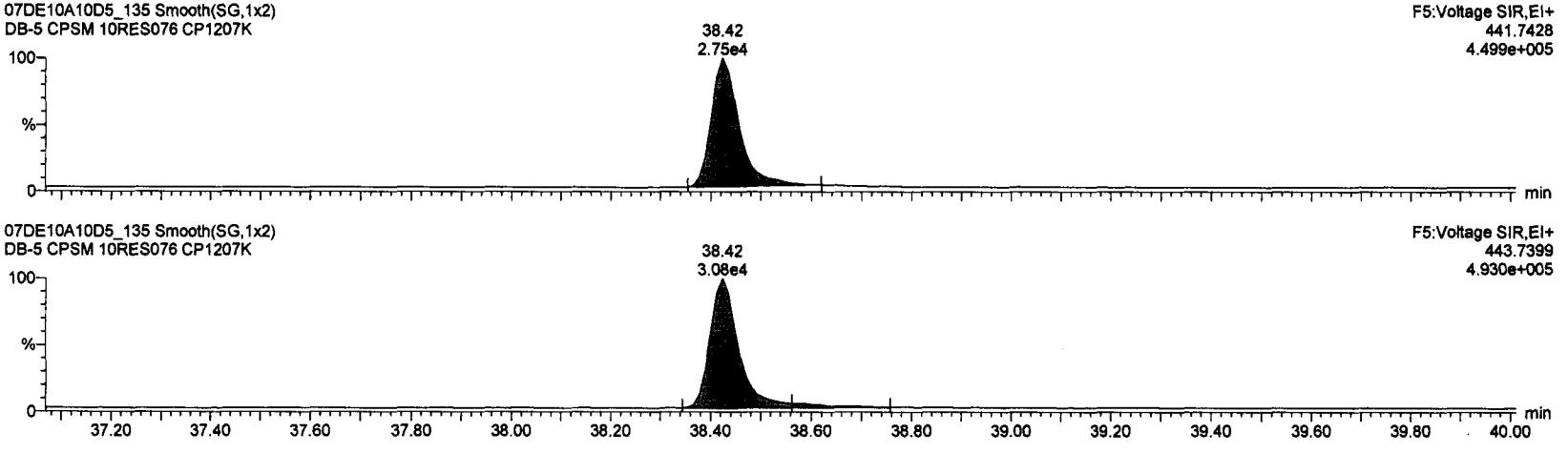
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

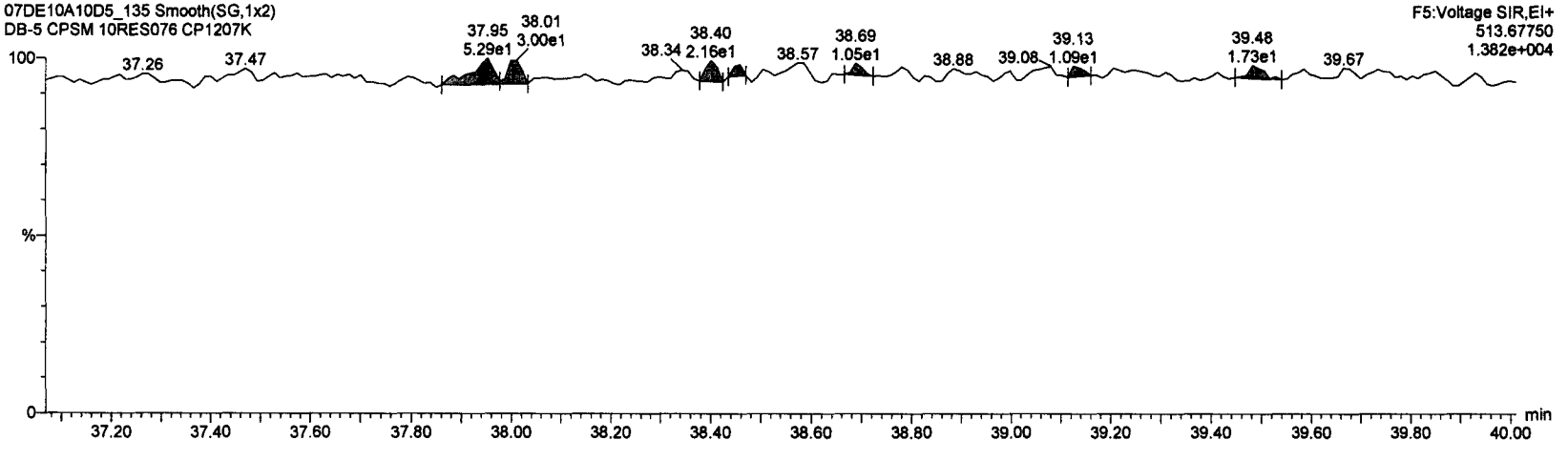
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

OCDFs



OCDF PCDPE



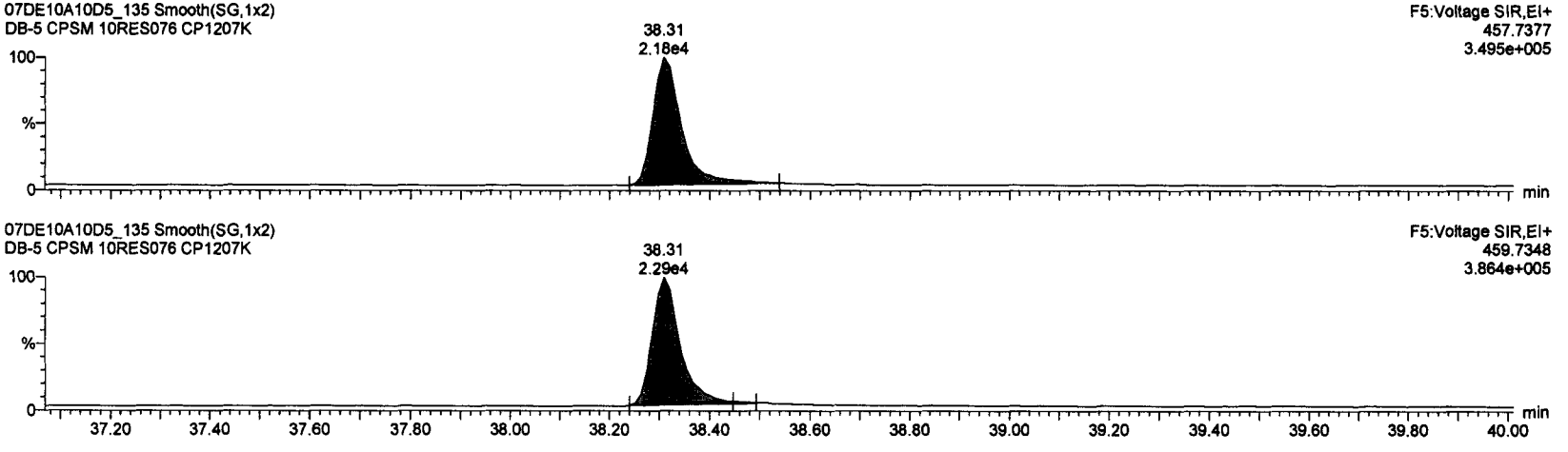
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

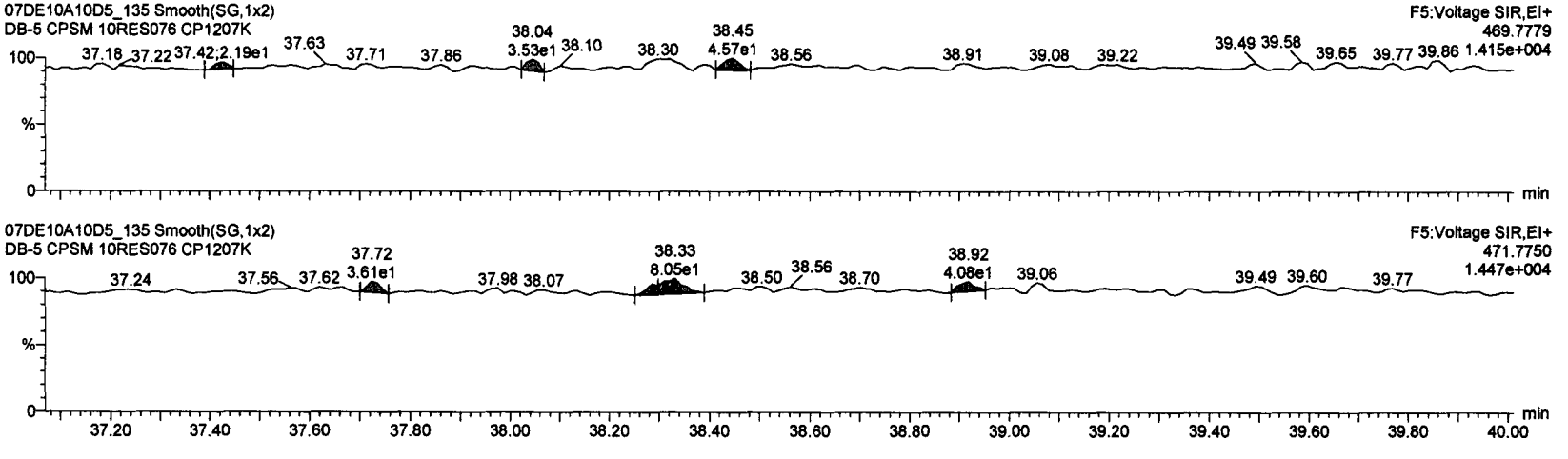
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

OCDD



13C-OCDD



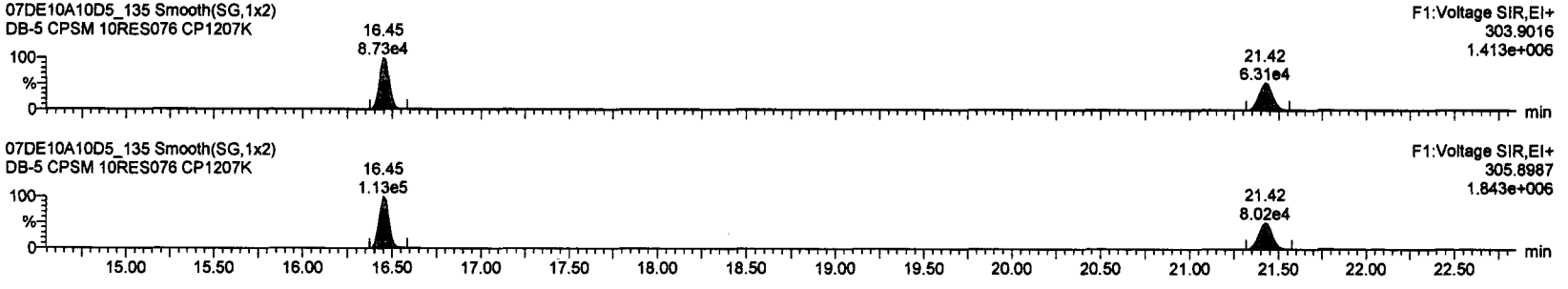
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

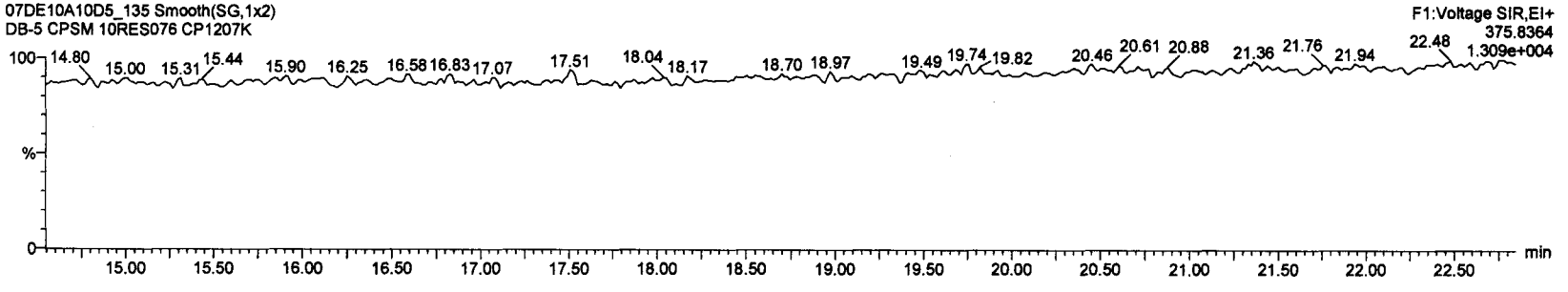
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

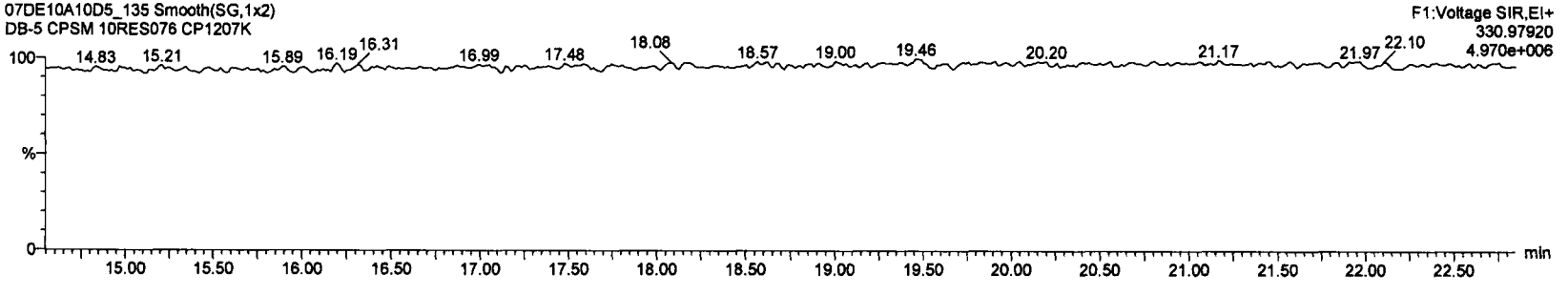
TCDFs



TCDF PCDPE



Function 1 PFK



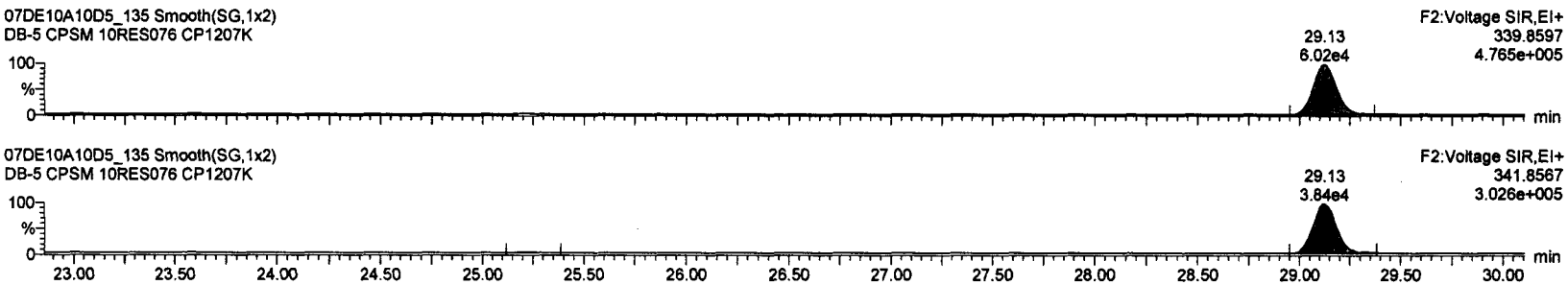
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

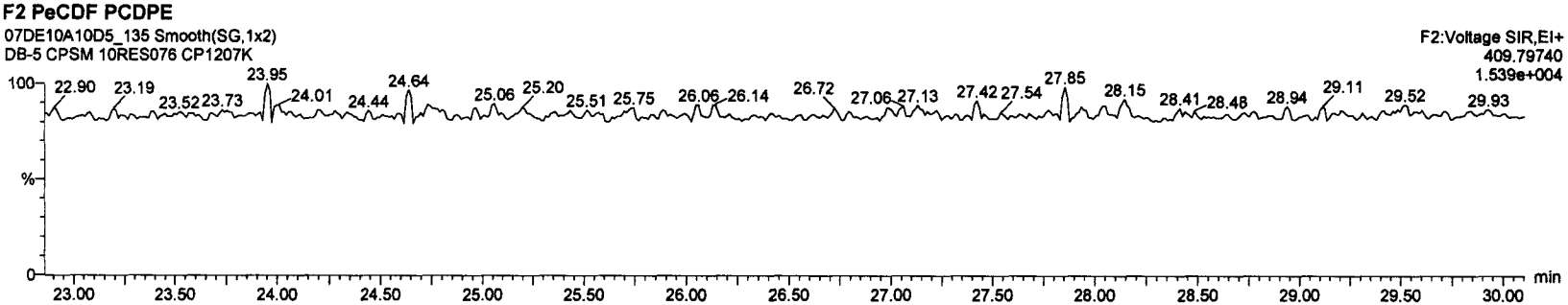
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

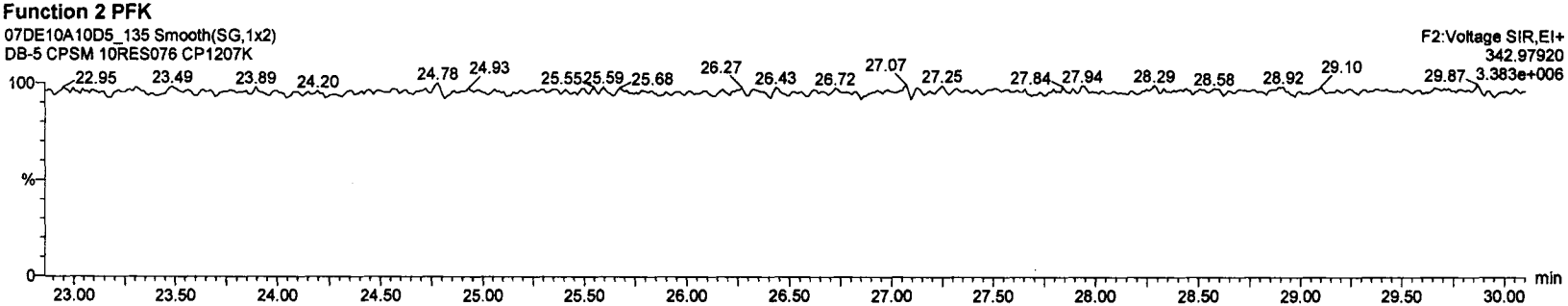
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



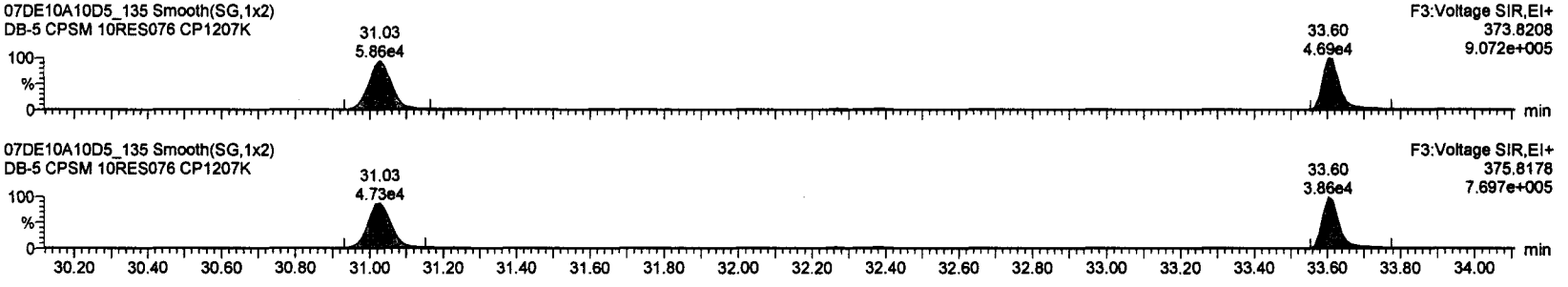
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

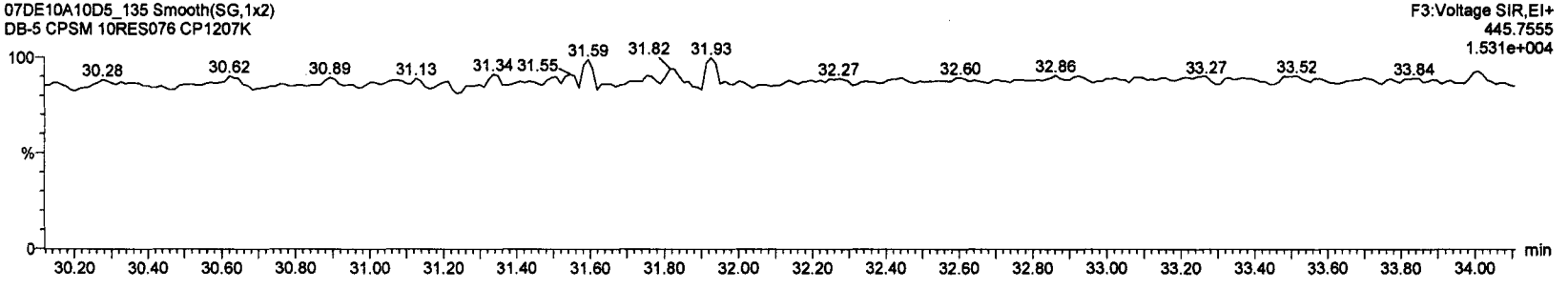
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

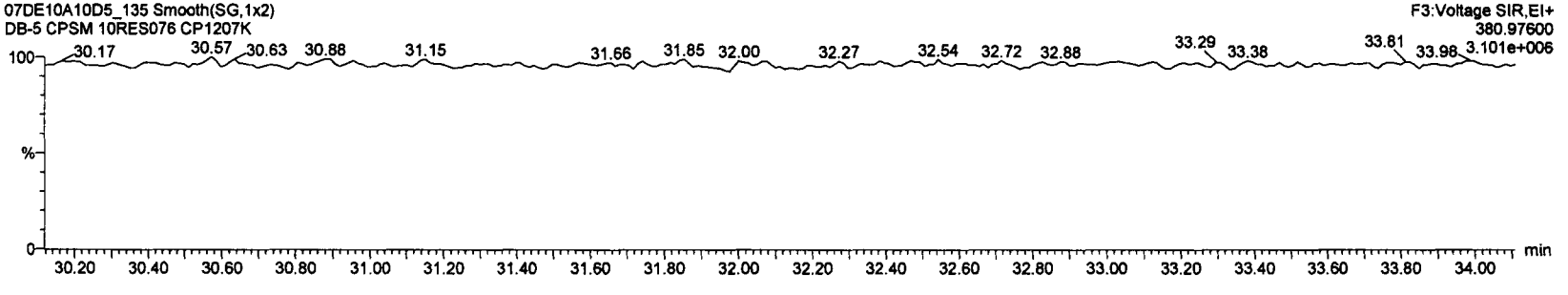
HxCDFs



HxCDF PCDPE



Function 3 PFK



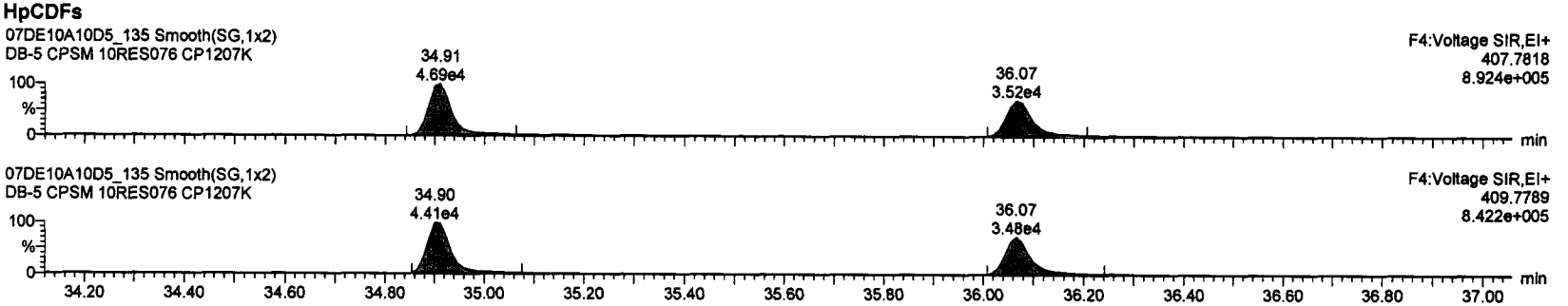
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

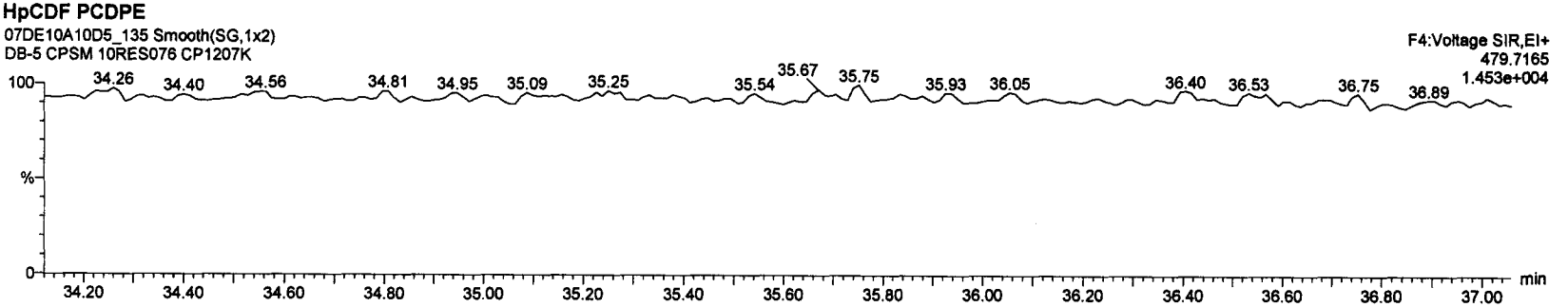
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

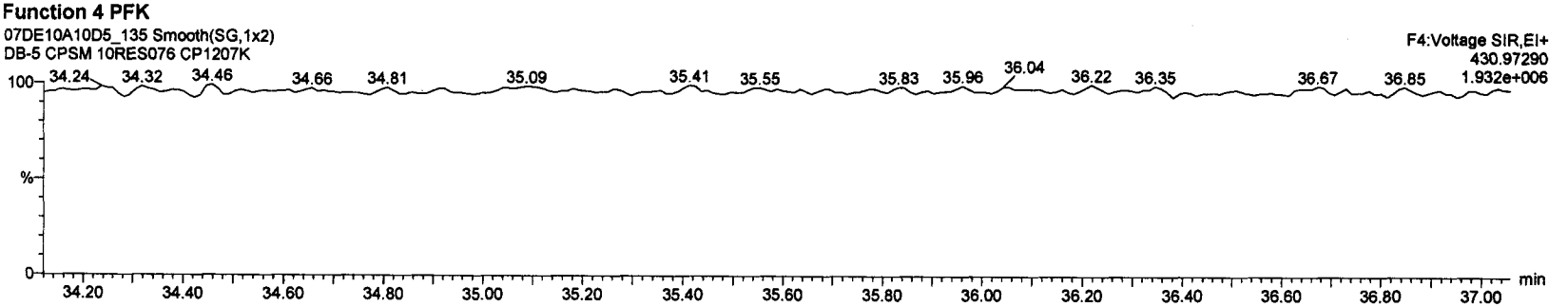
HpCDFs



HpCDF PCDPE



Function 4 PFK



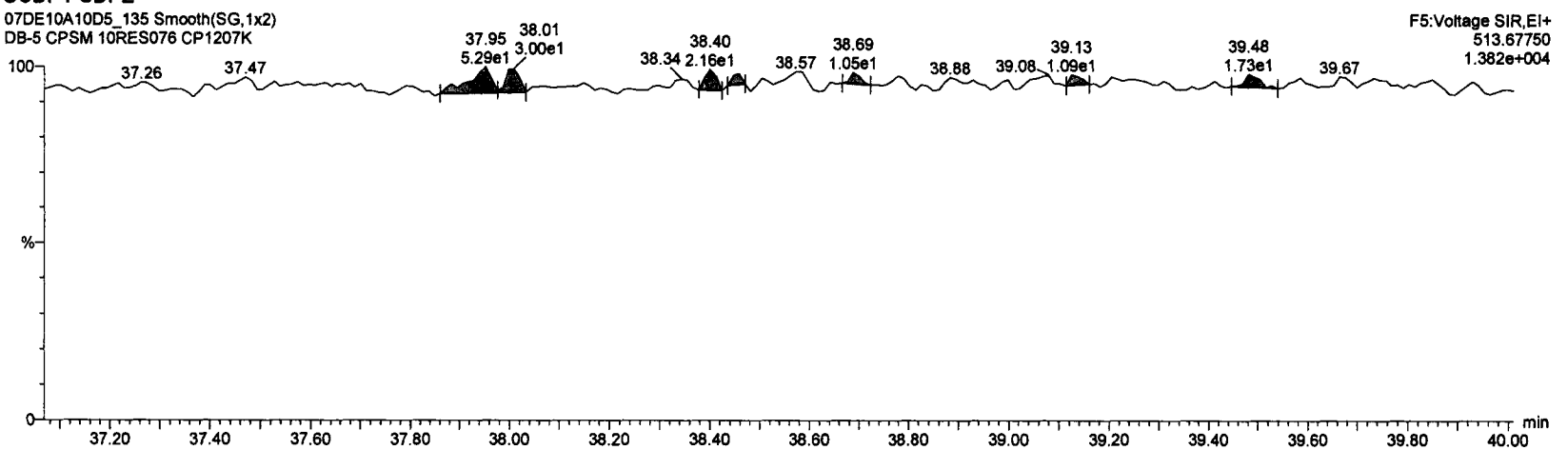
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

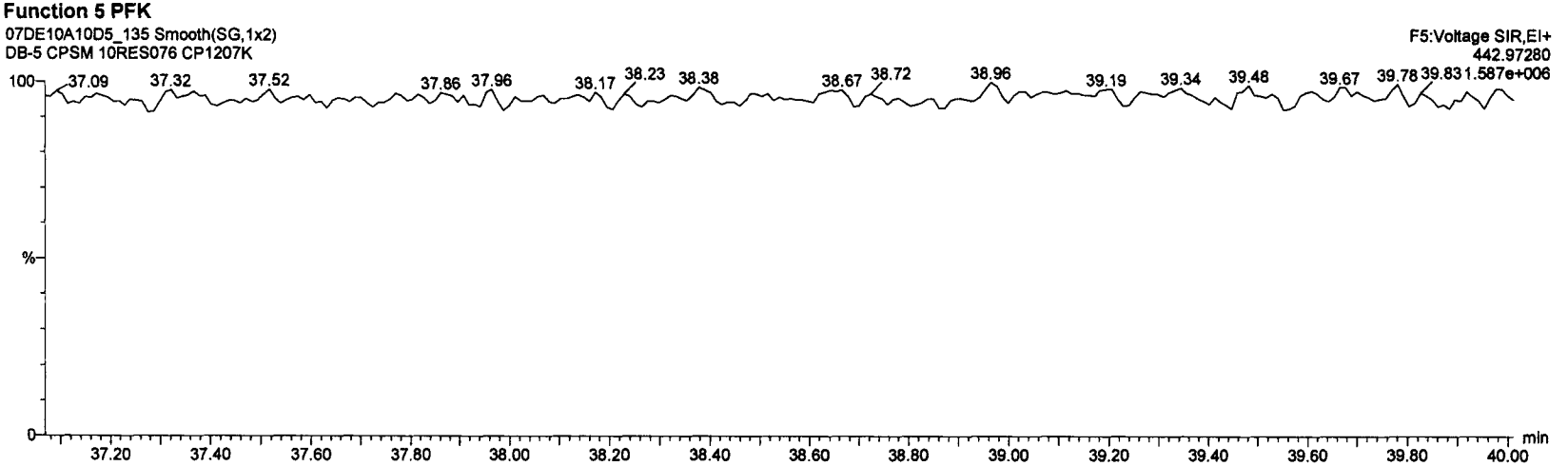
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_135, Date: 11-Dec-2010, Time: 22:52:30, ID: CP1207K, Description: DB-5 CPSM 10RES076

OCDF PCDPE



Function 5 PFK



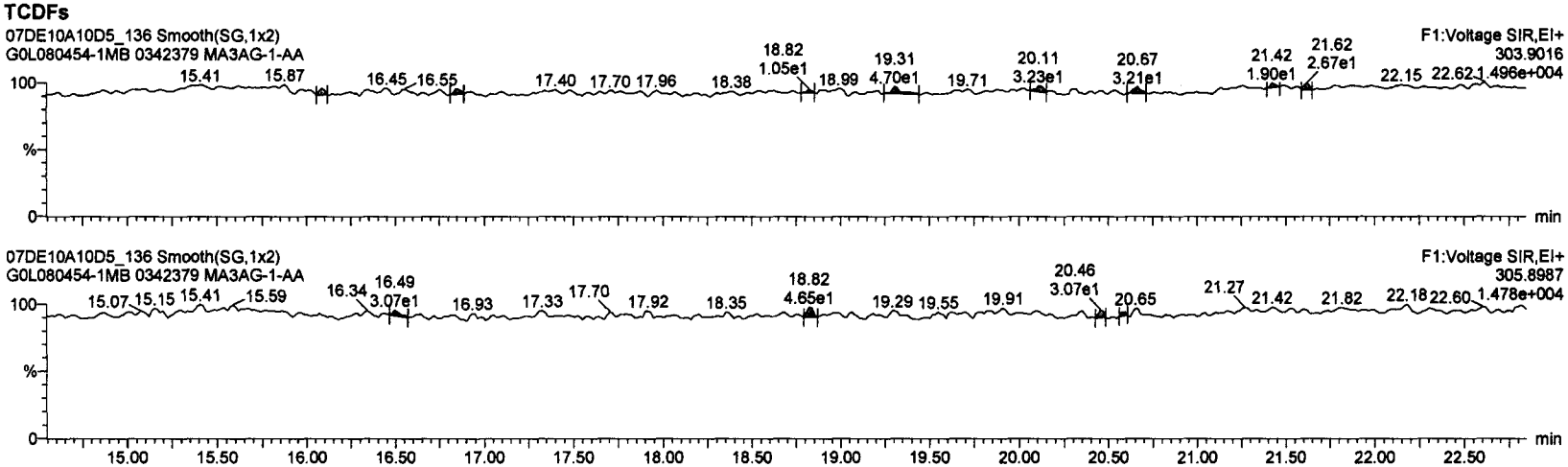
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

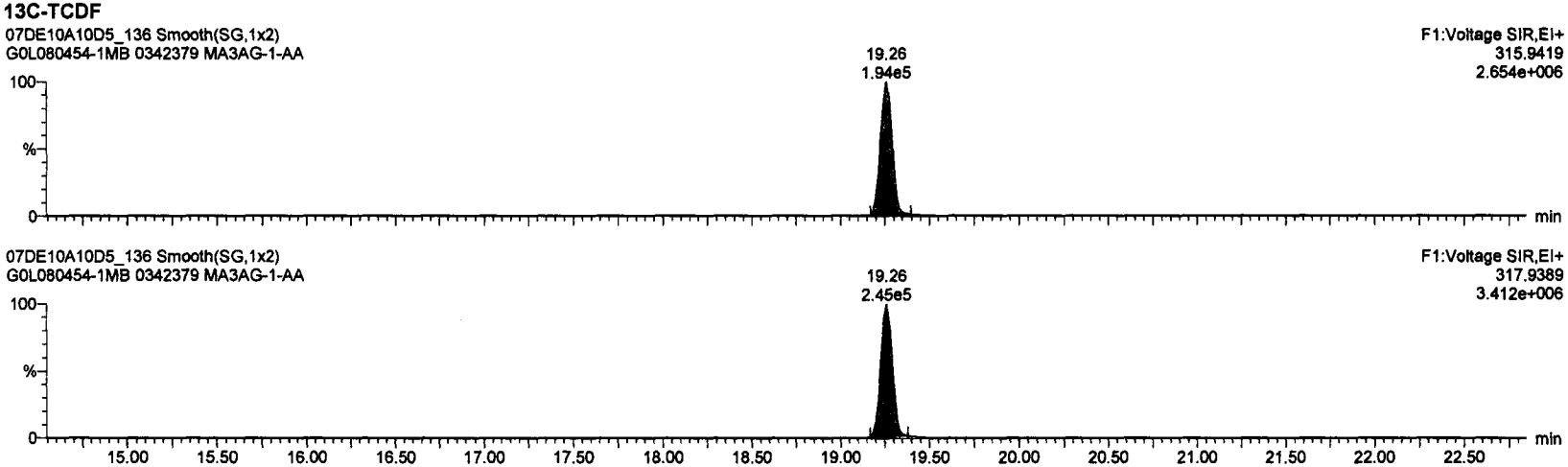
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

TCDFs



13C-TCDF



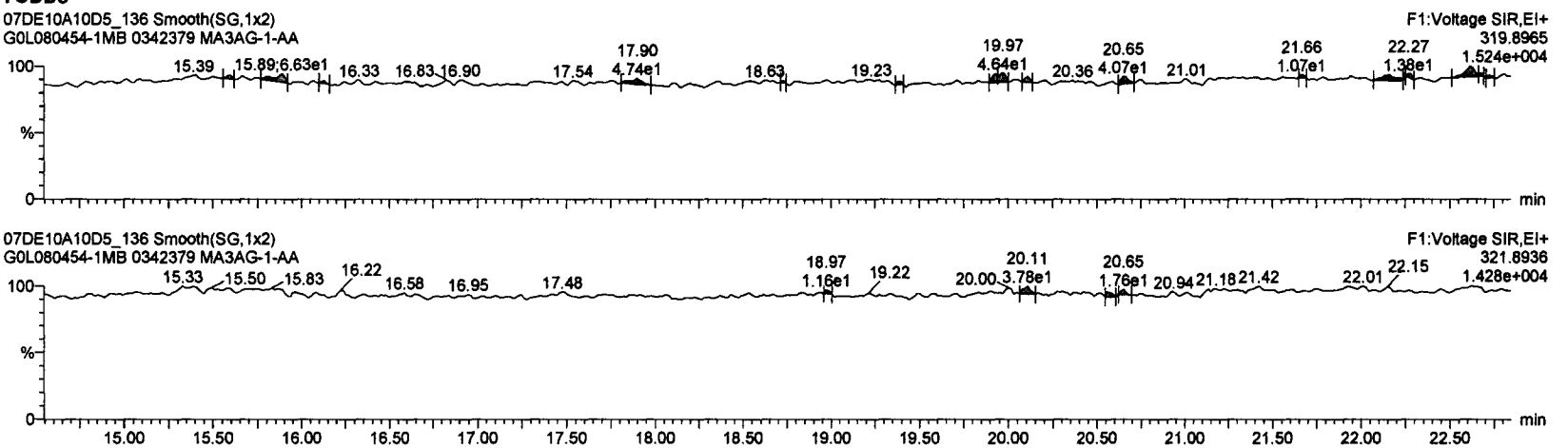
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

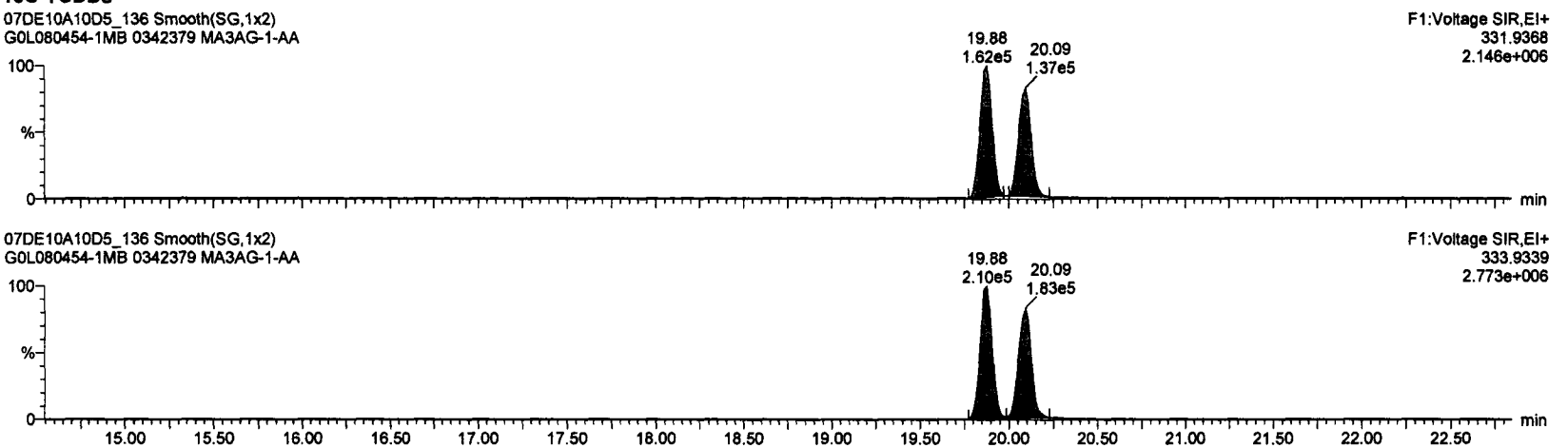
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

TCDDs



13C-TCDDs



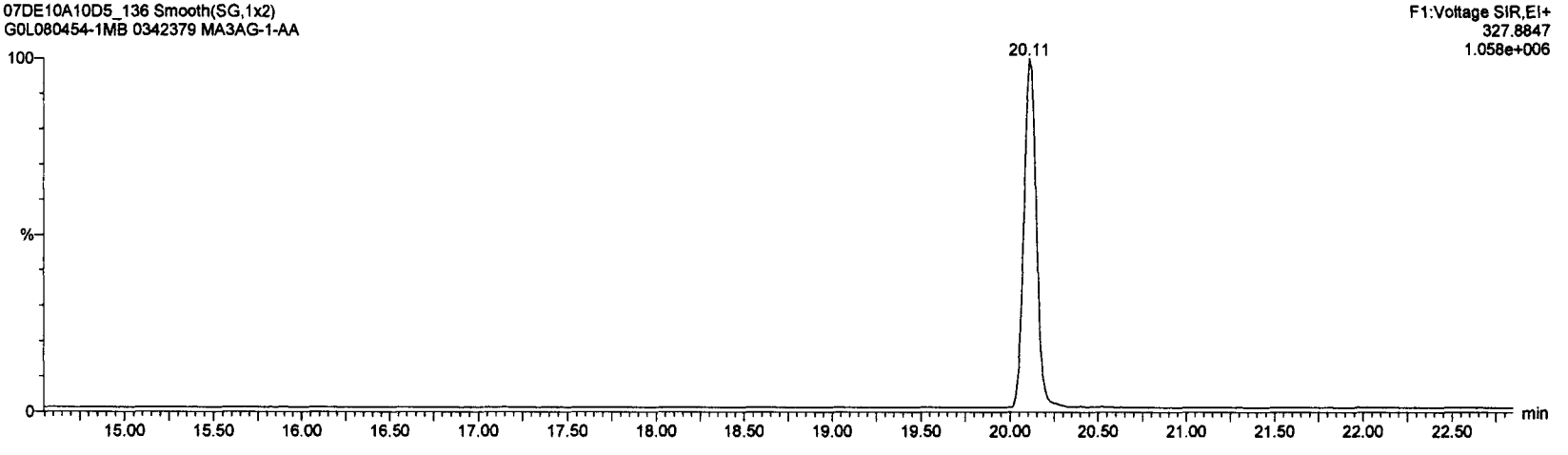
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

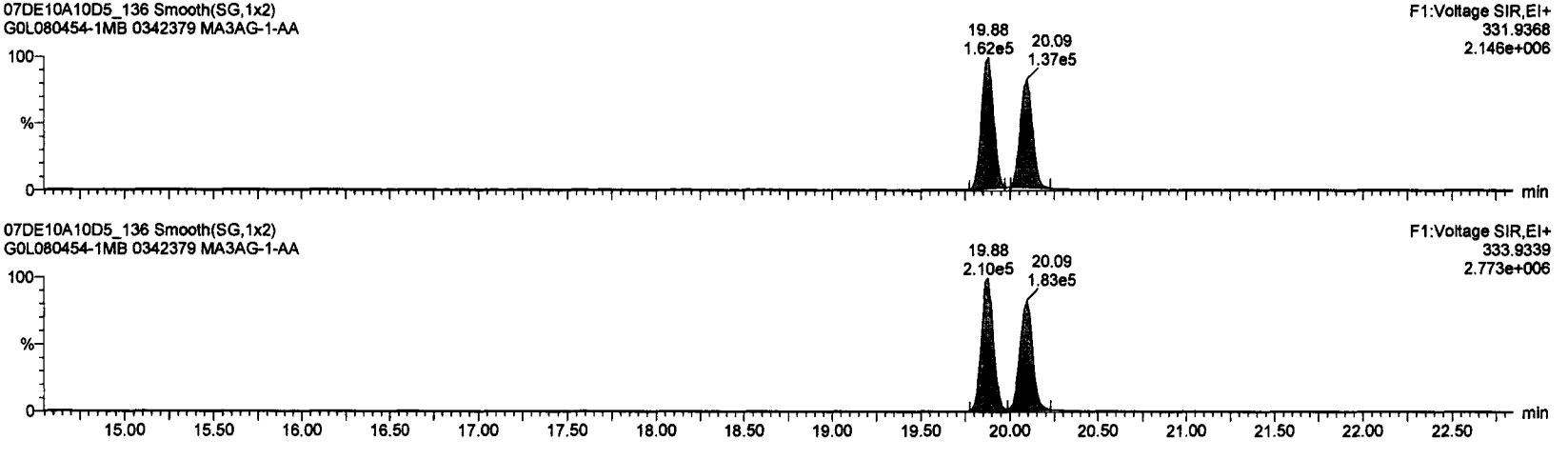
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

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



13C-TCDDs



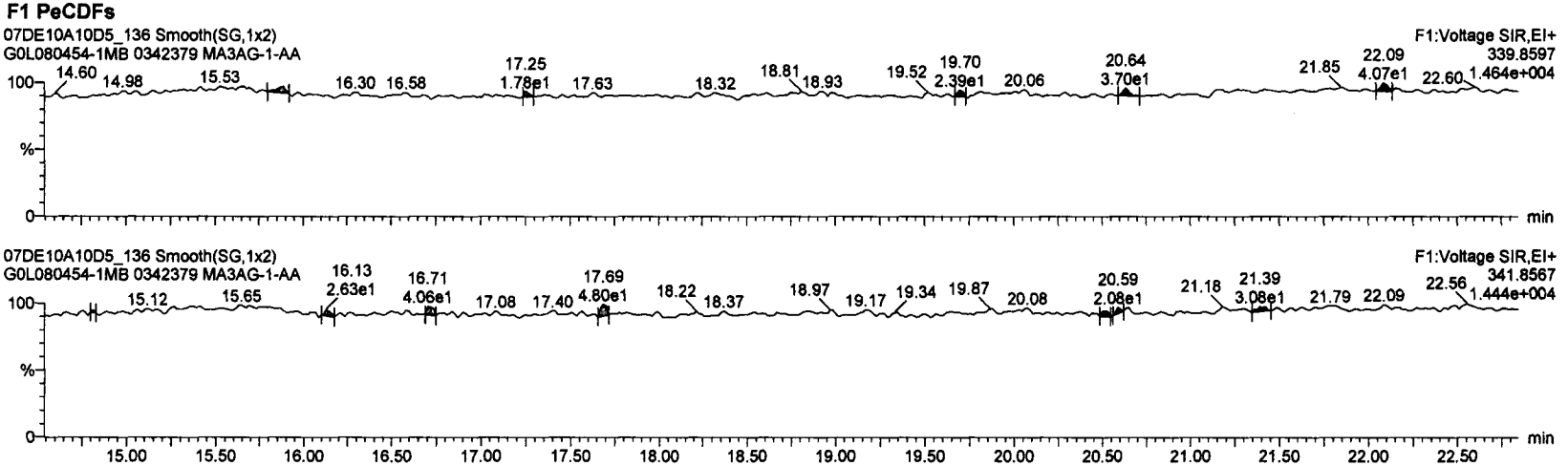
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

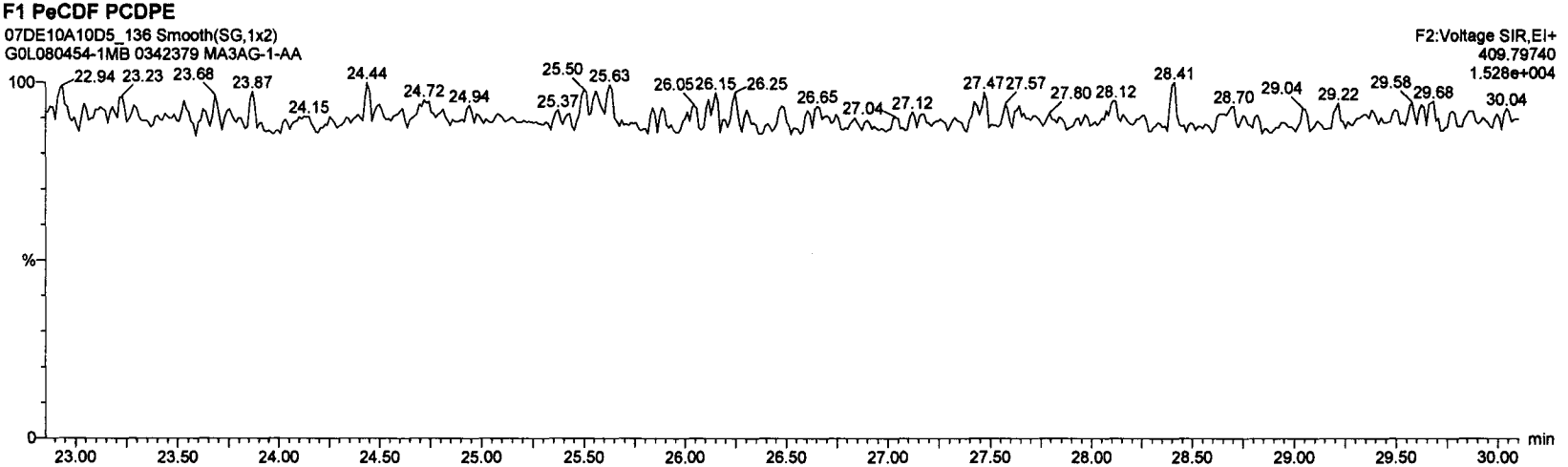
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

F1 PeCDFs



F1 PeCDF PCDPE



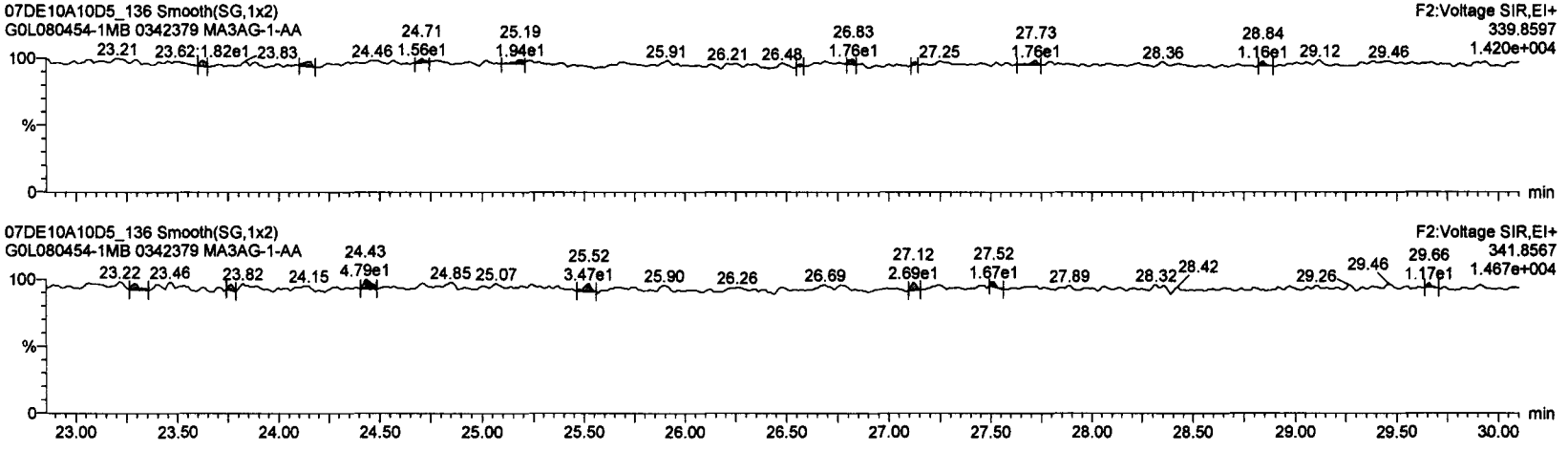
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

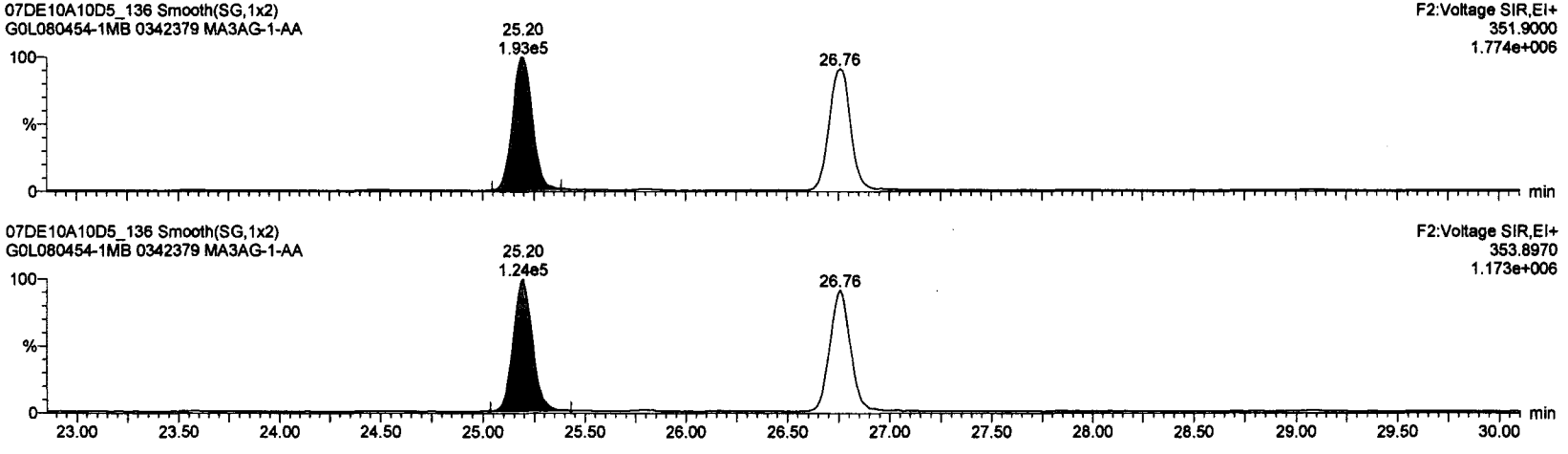
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
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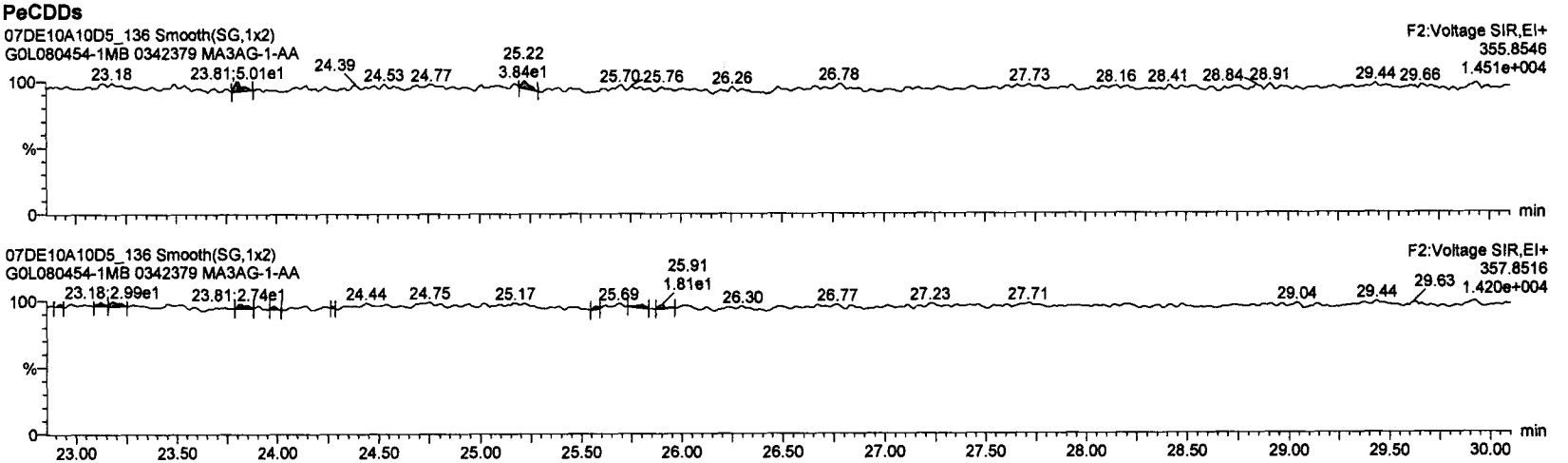
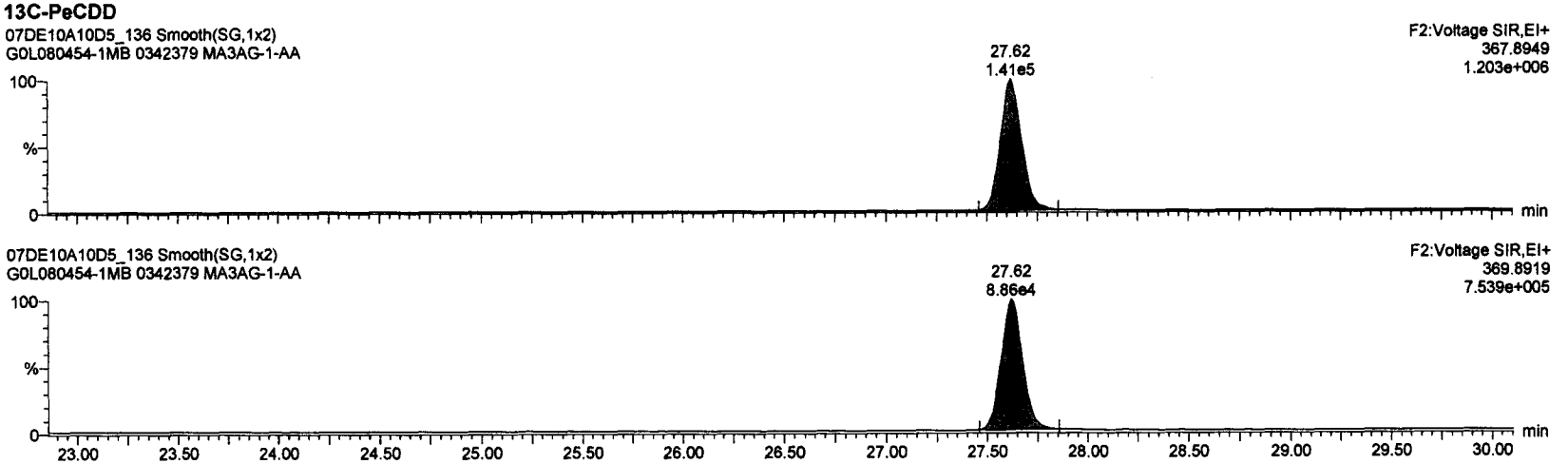
Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

PeCDDs



13C-PeCDD



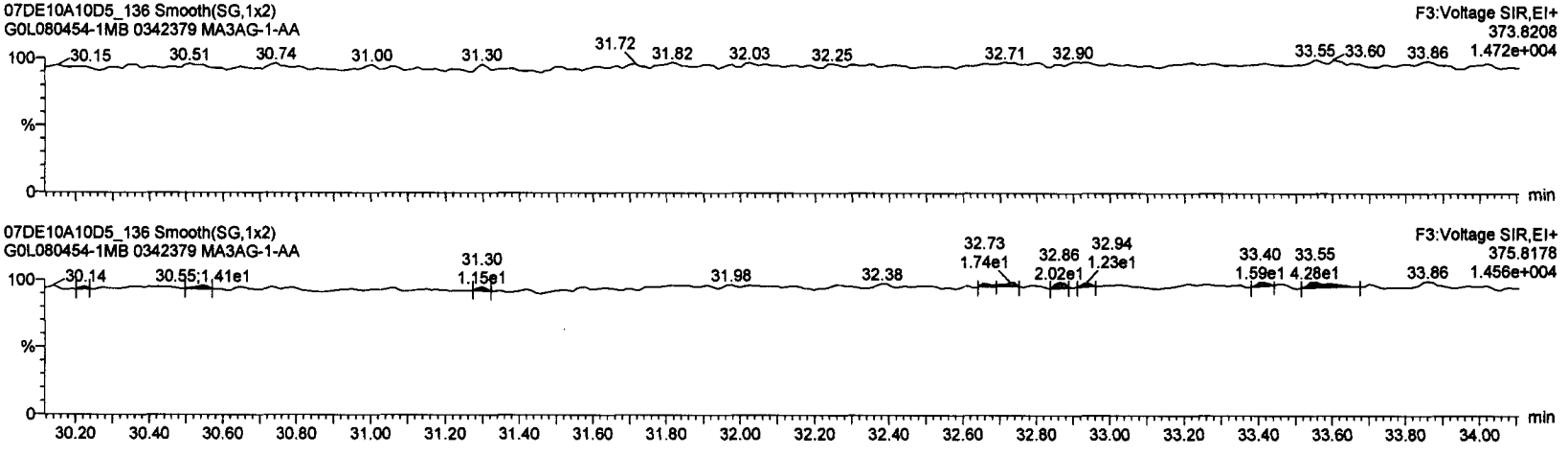
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

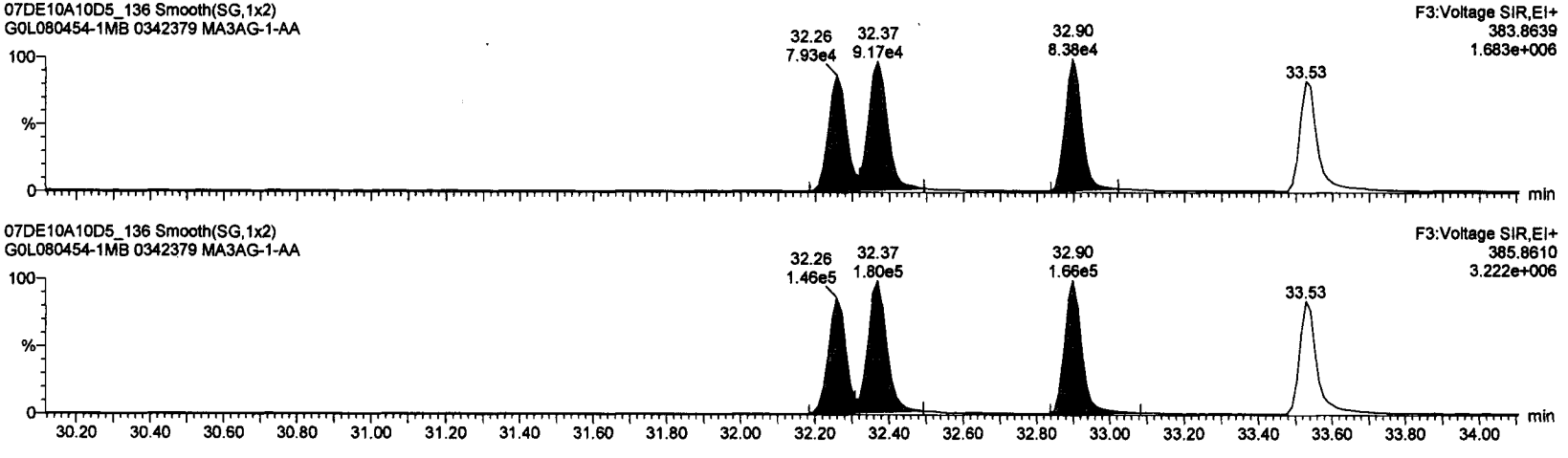
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HxCDFs



13C-HxCDFs



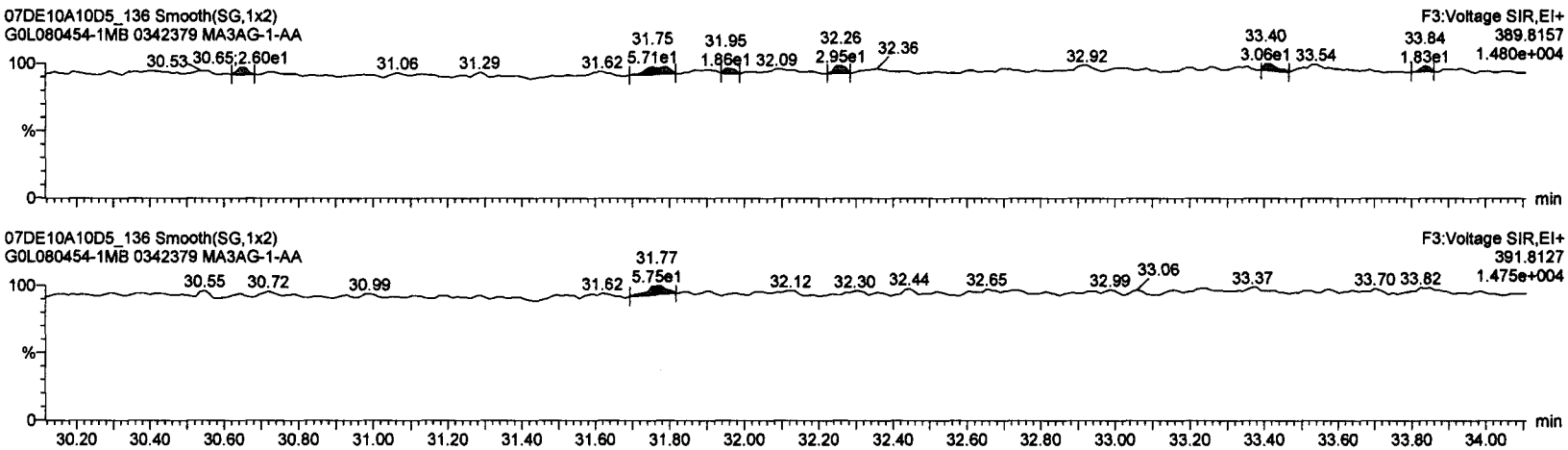
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

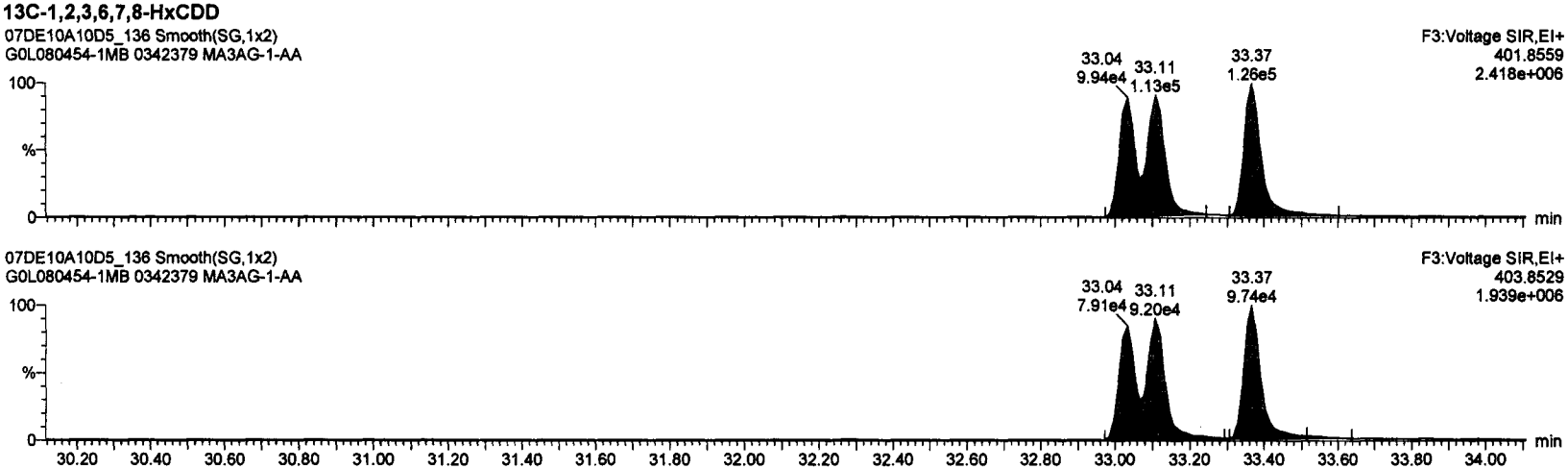
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HxCDDs



13C-1,2,3,6,7,8-HxCDD



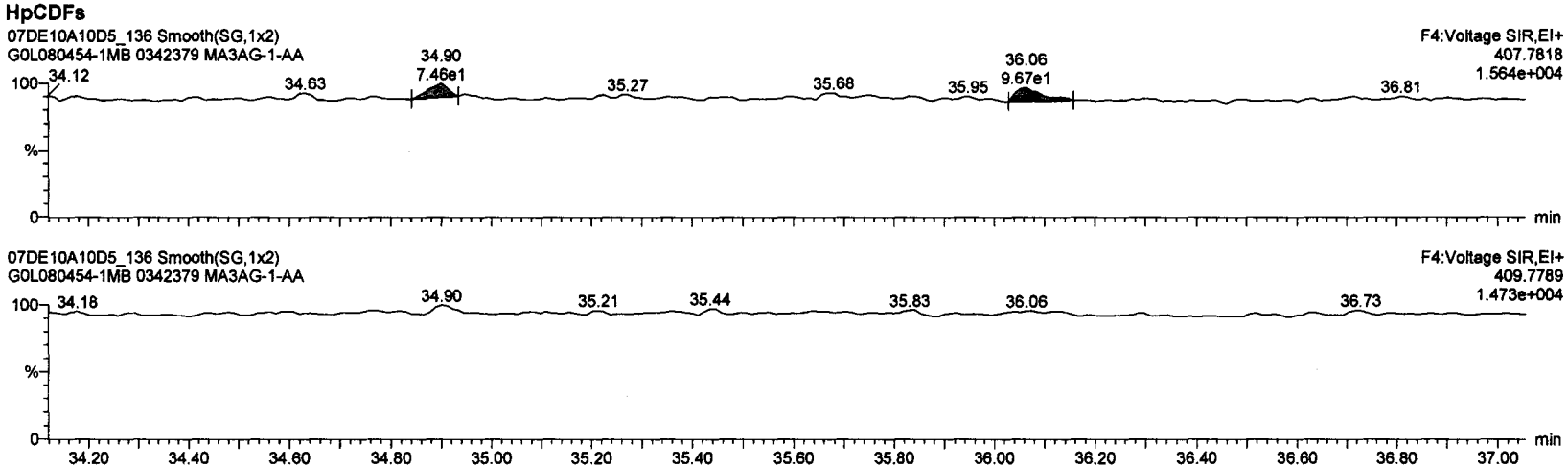
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

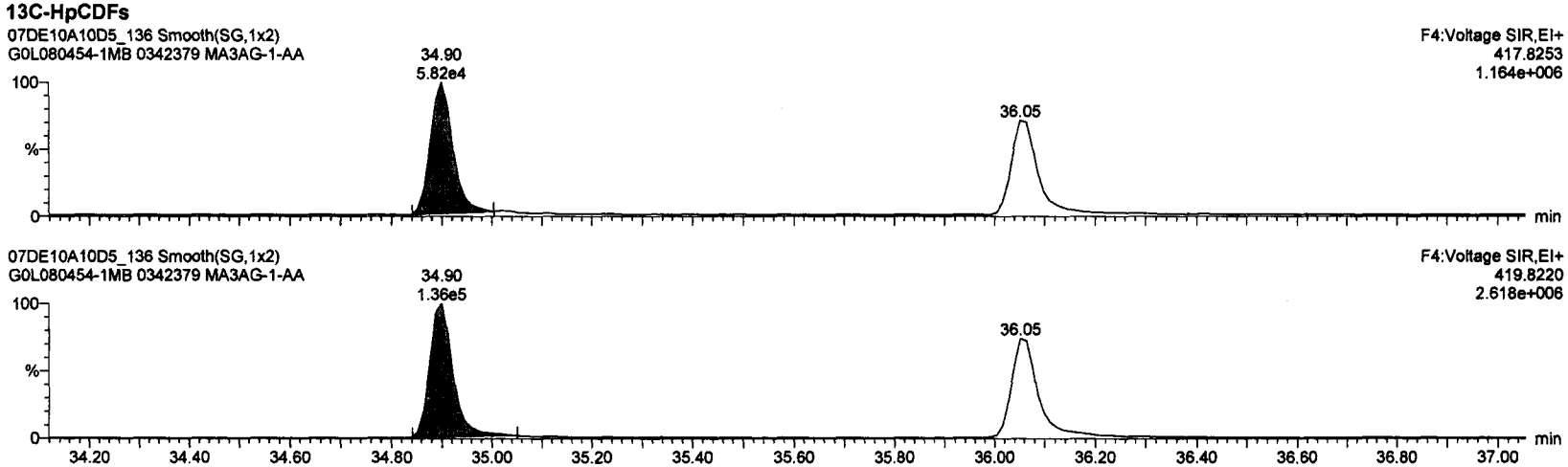
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HpCDFs



13C-HpCDFs



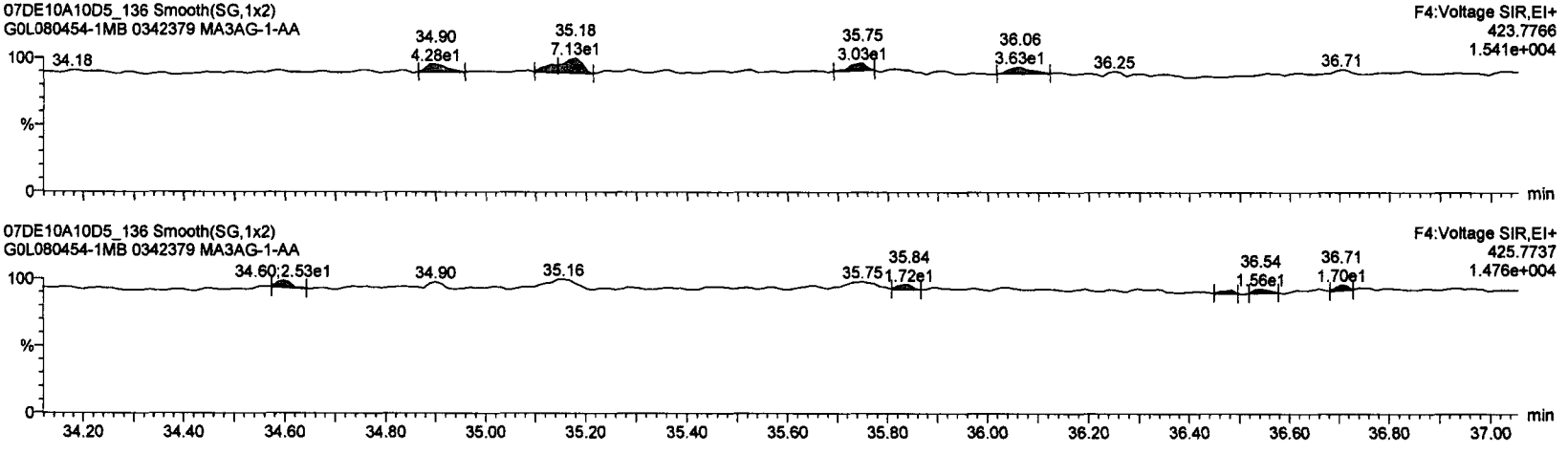
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

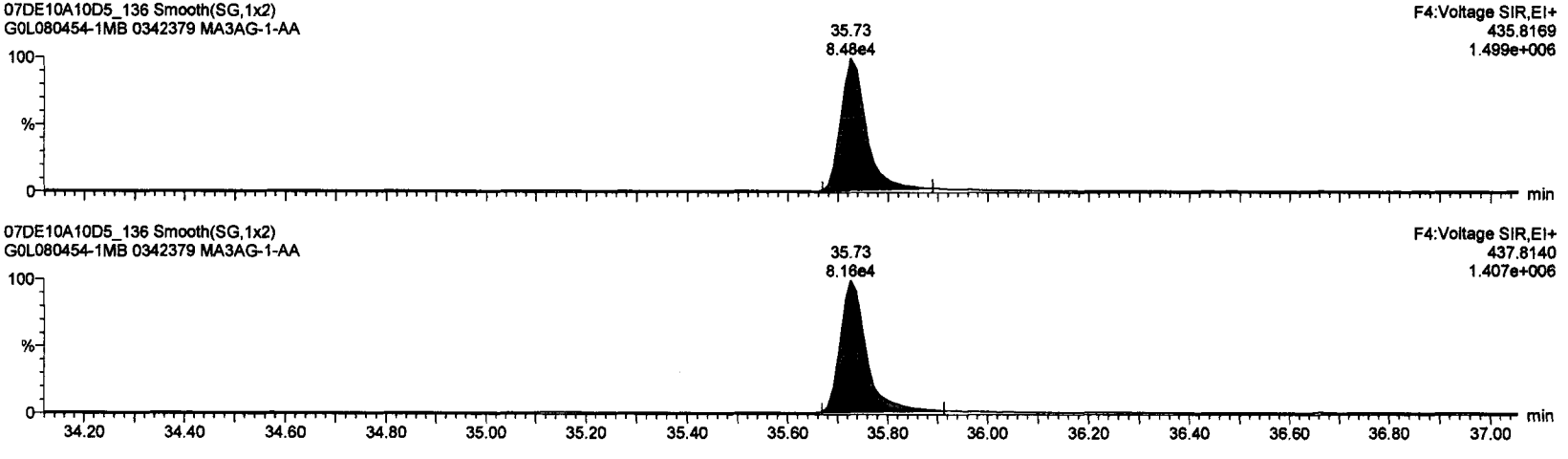
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



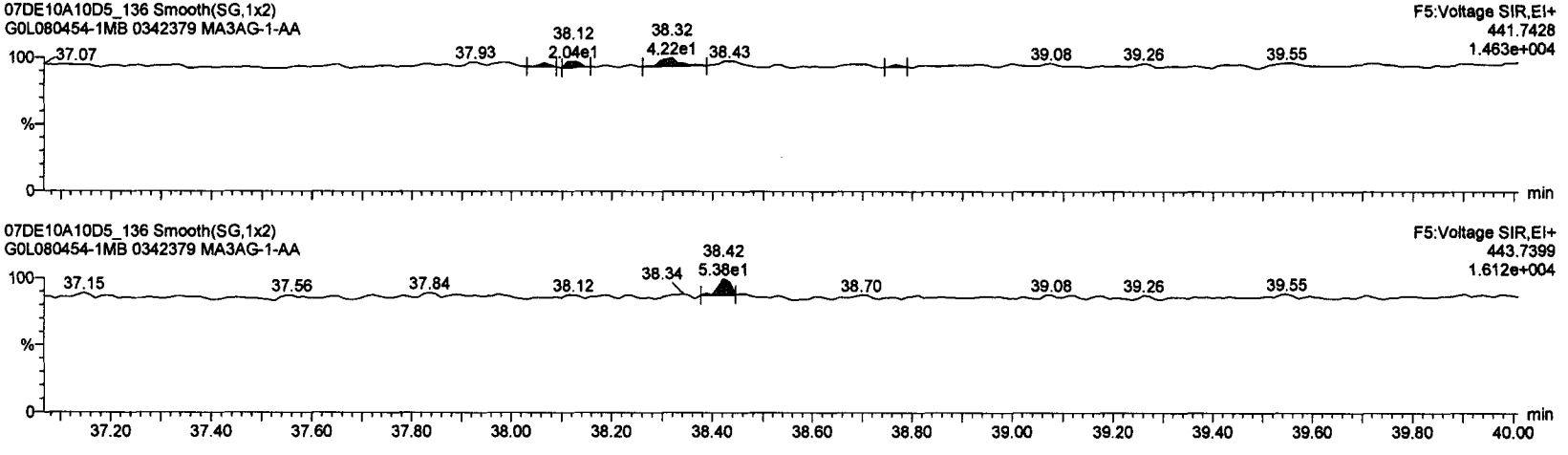
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

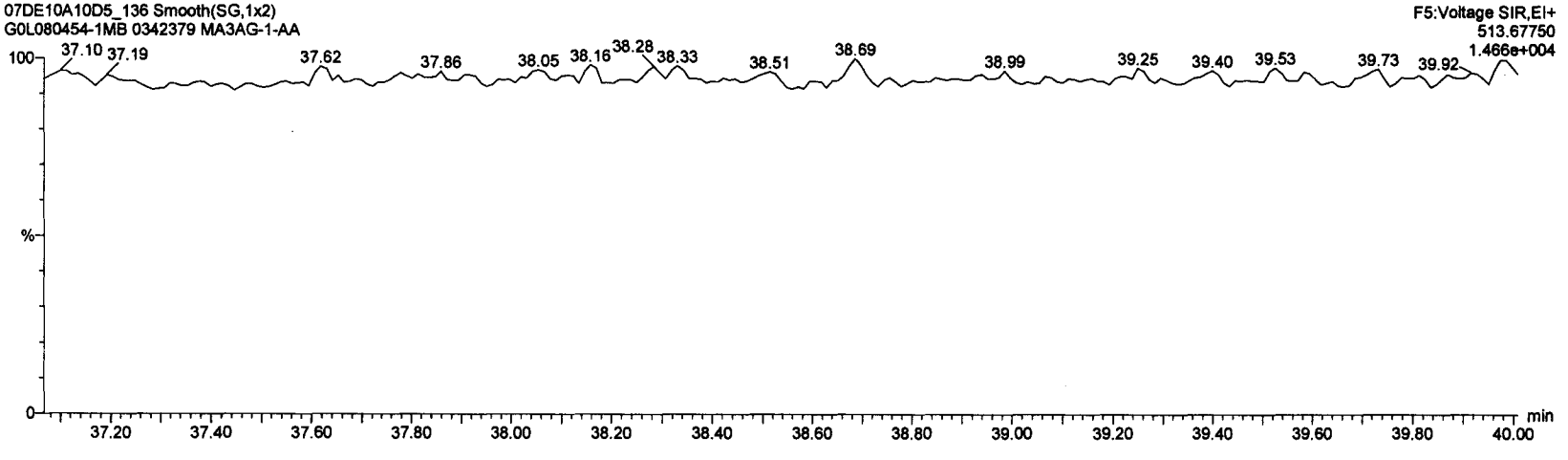
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

OCDFs



OCDF PCDPE



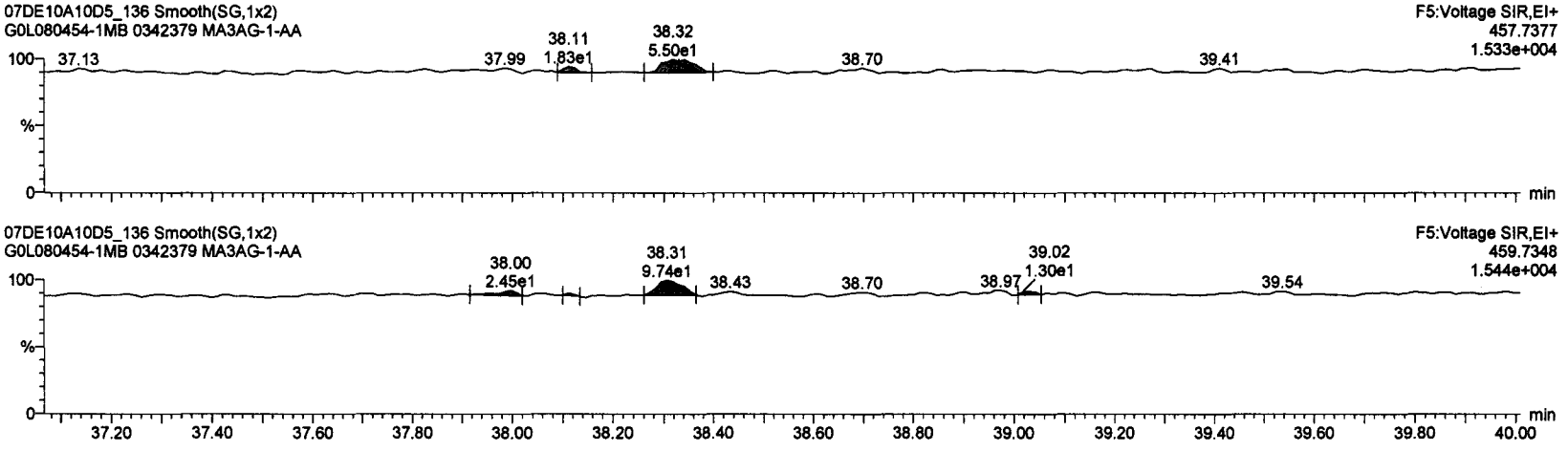
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

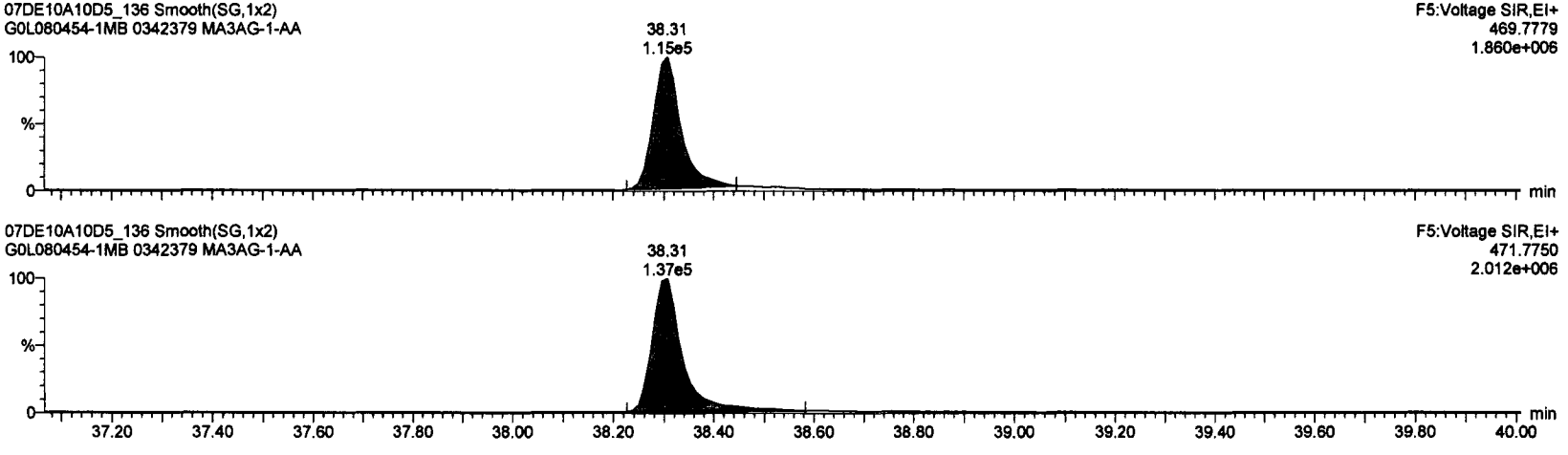
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

OCDD



13C-OCDD



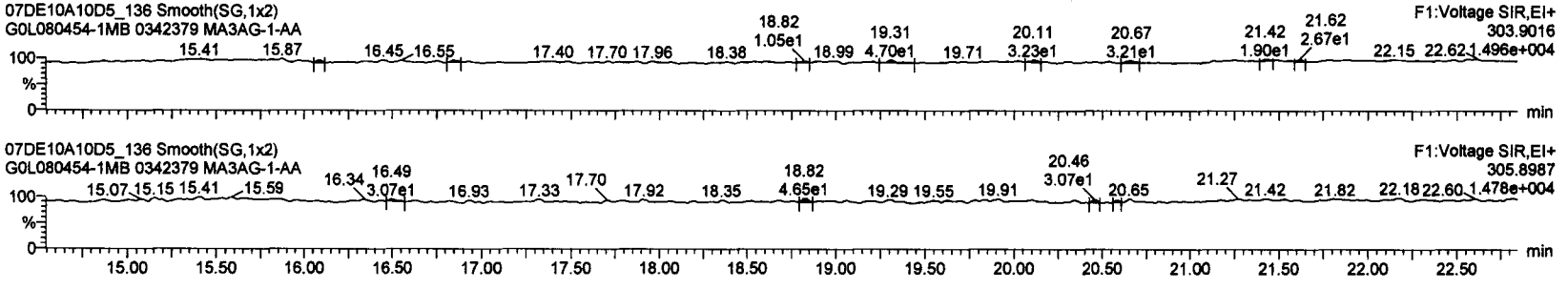
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

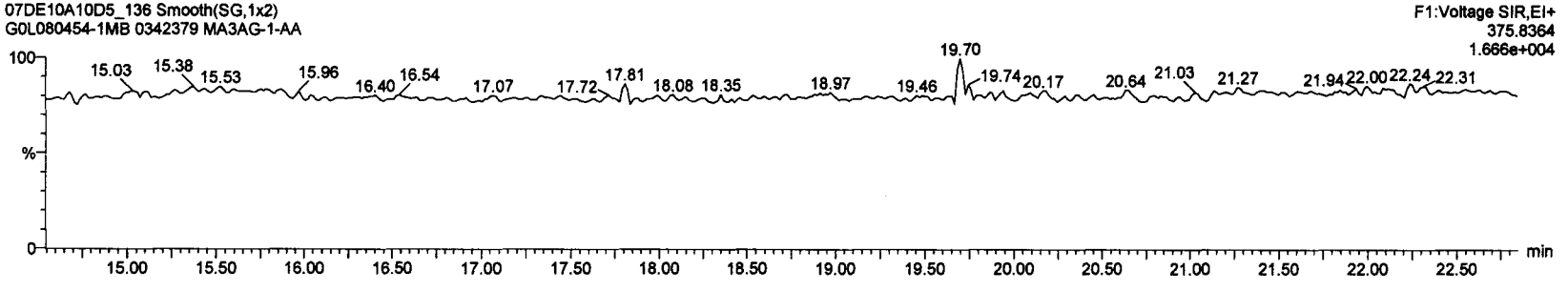
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

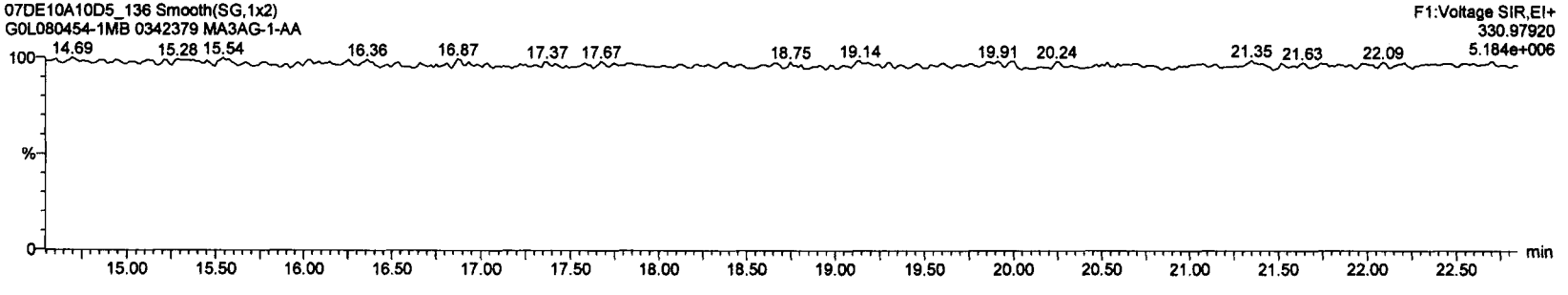
TCDFs



TCDF PCDPE



Function 1 PFK



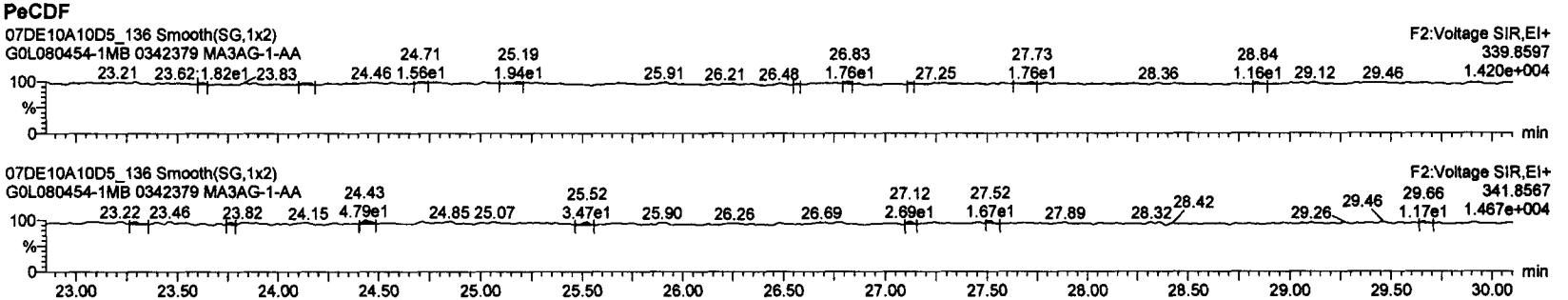
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

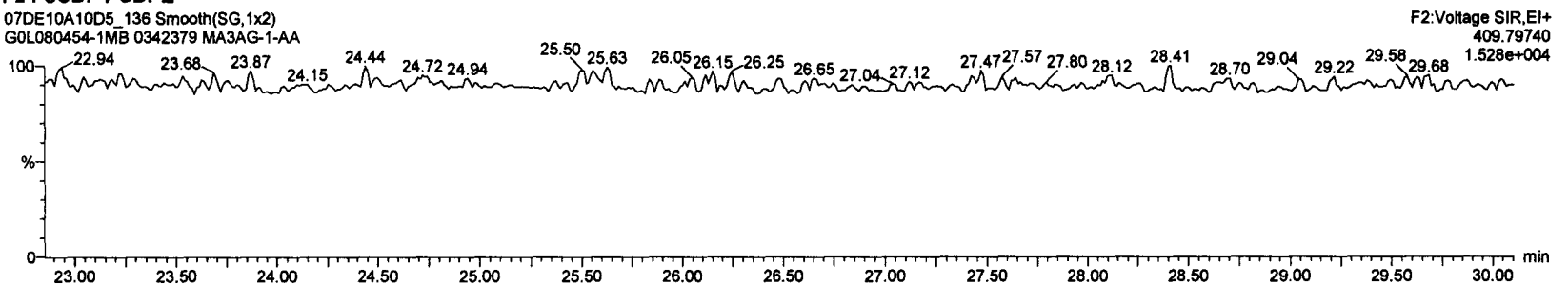
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

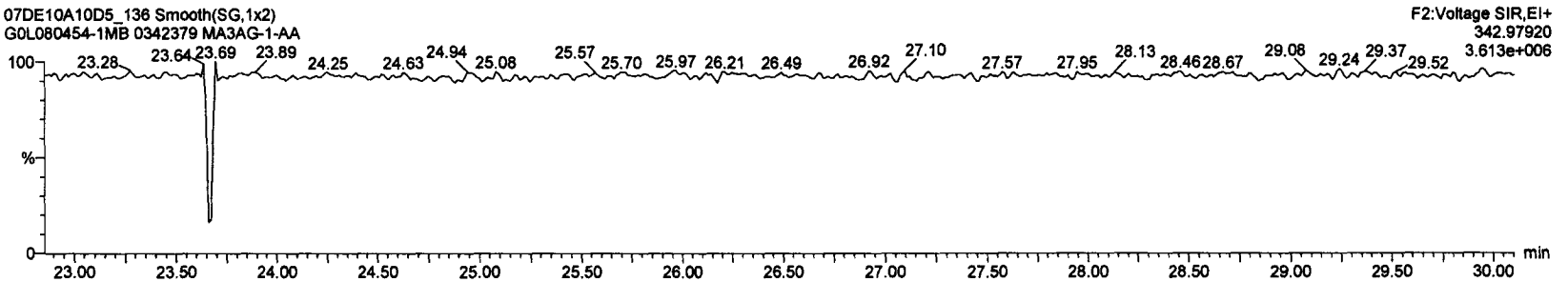
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



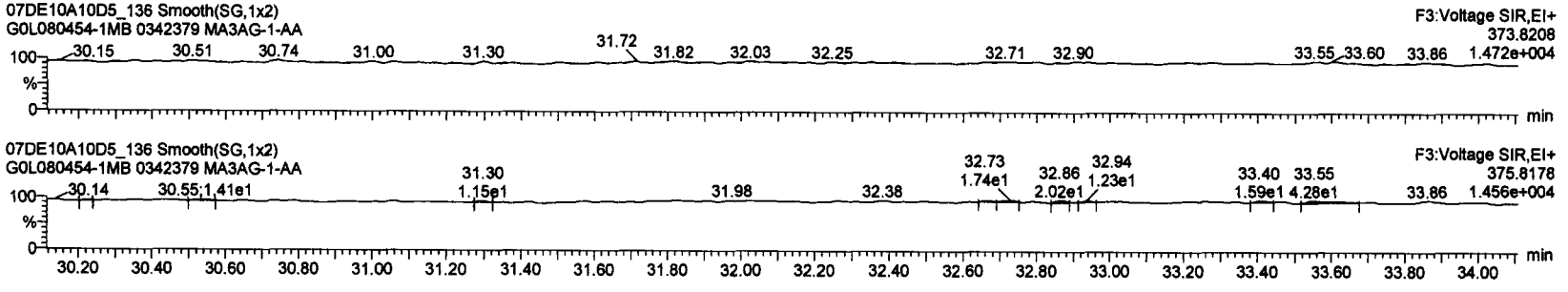
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

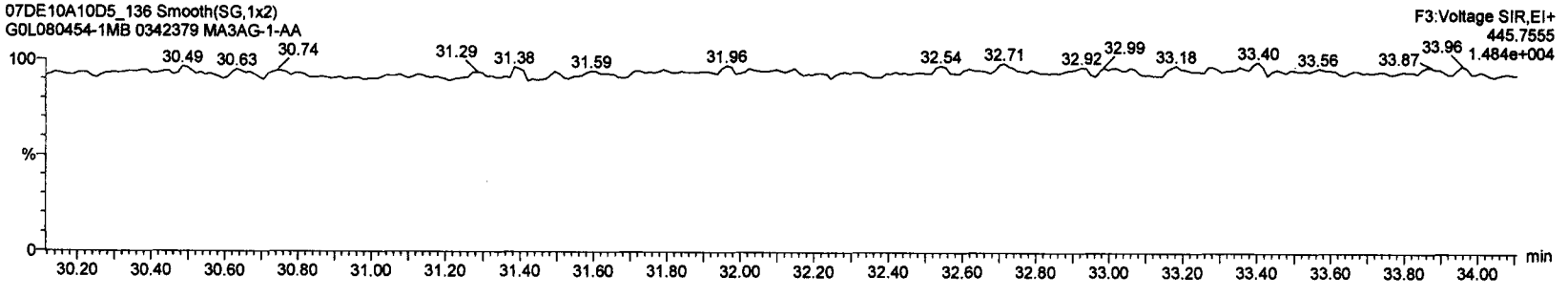
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

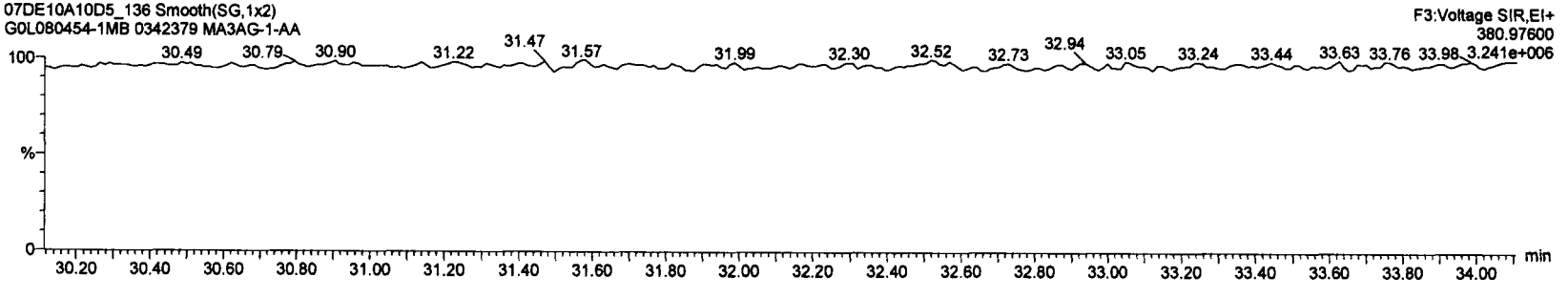
HxCDFs



HxCDF PCDPE



Function 3 PFK



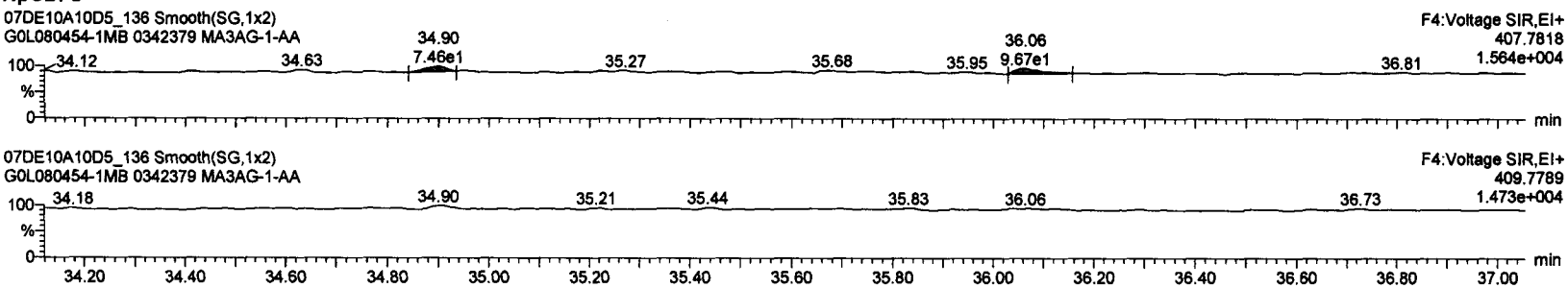
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

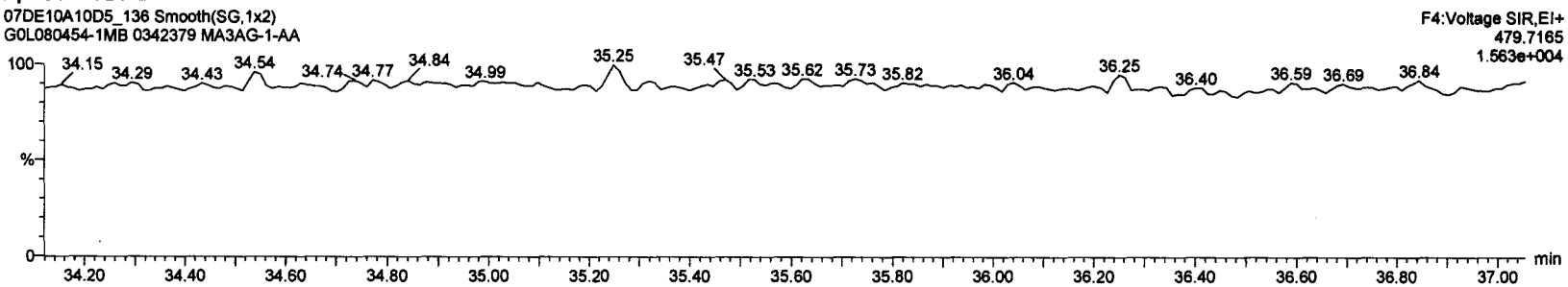
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

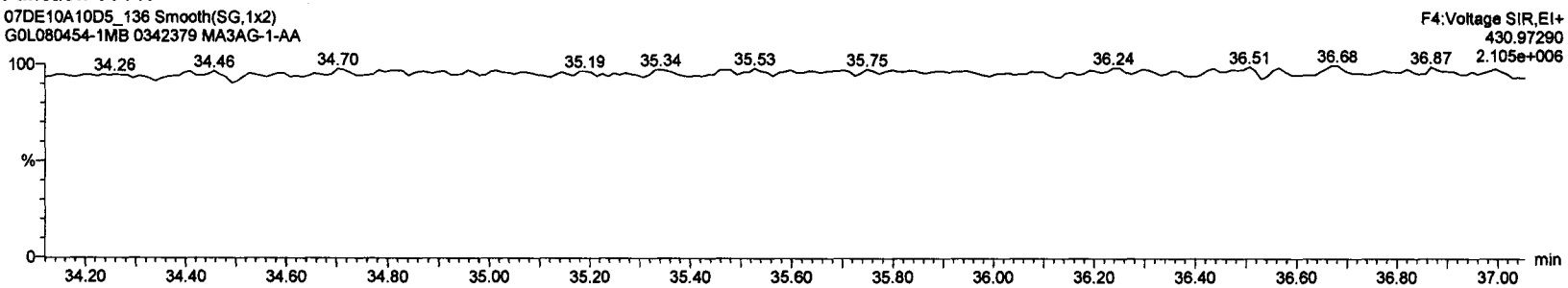
HpCDFs



HpCDF PCDPE



Function 4 PFK



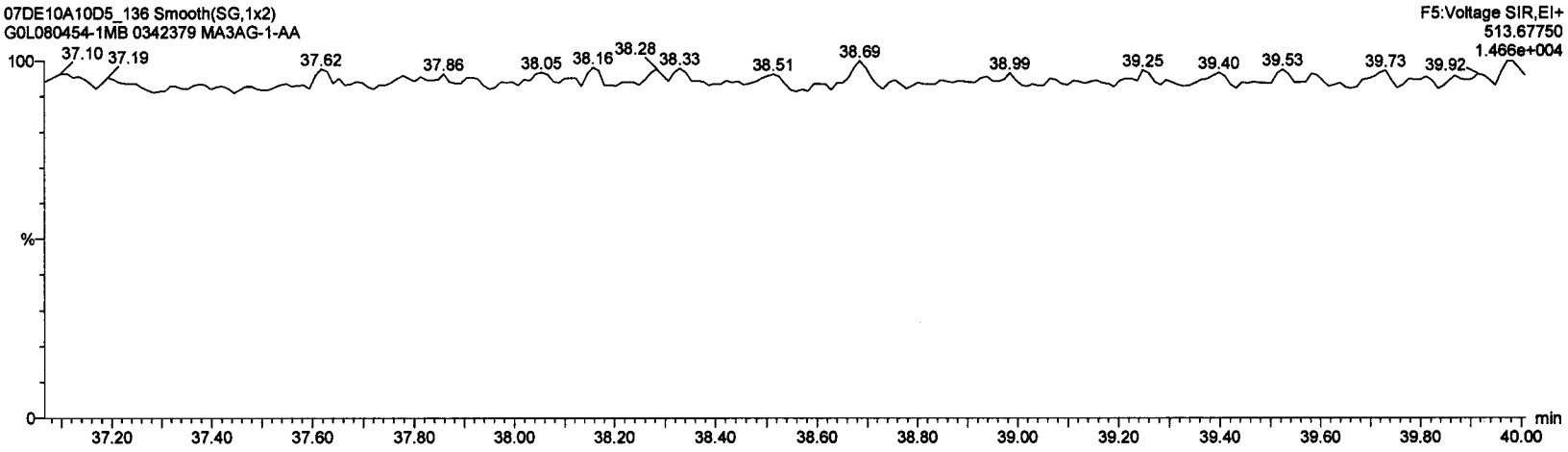
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

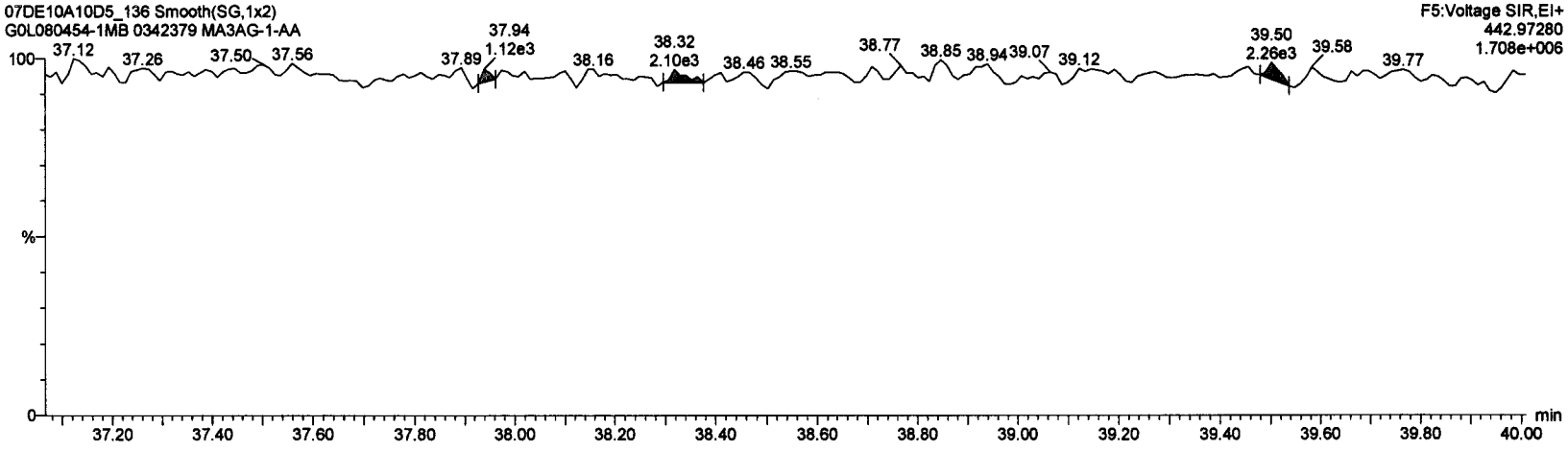
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_136, Date: 11-Dec-2010, Time: 23:33:40, ID: MA3AG-1-AA, Description: G0L080454-1MB 0342379

OCDF PCDPE



Function 5 PFK



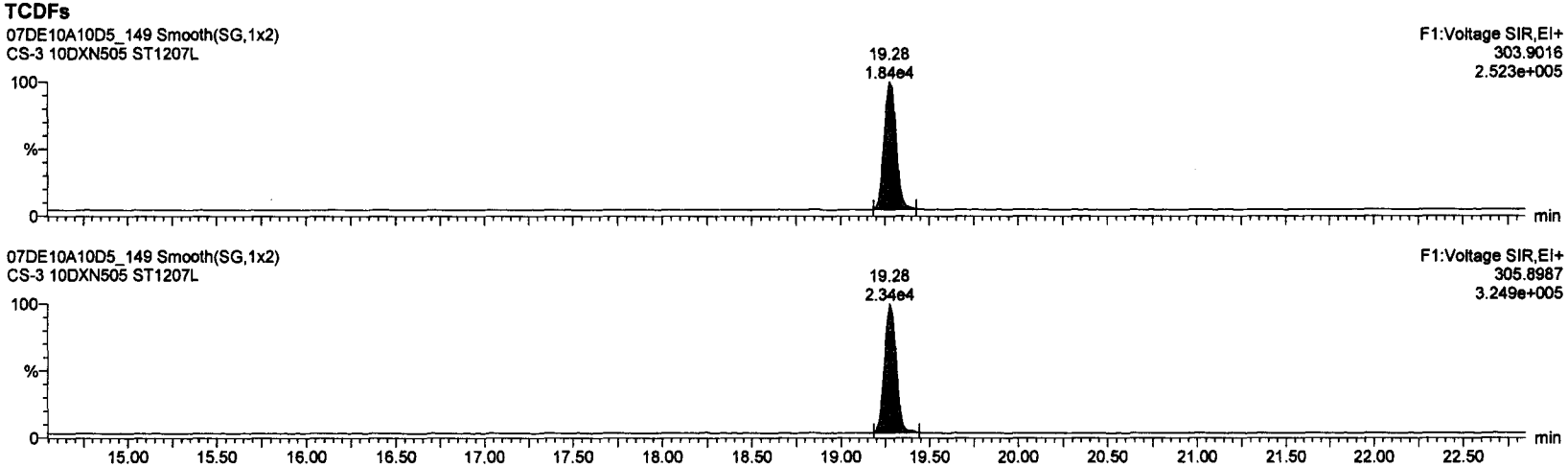
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

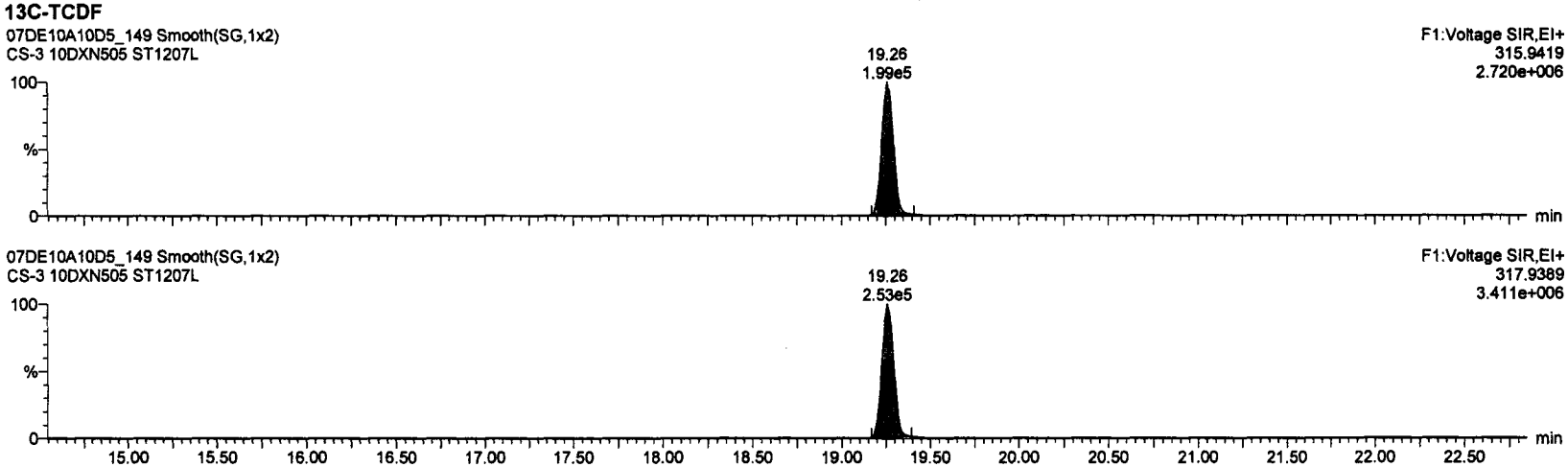
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

TCDFs



13C-TCDF



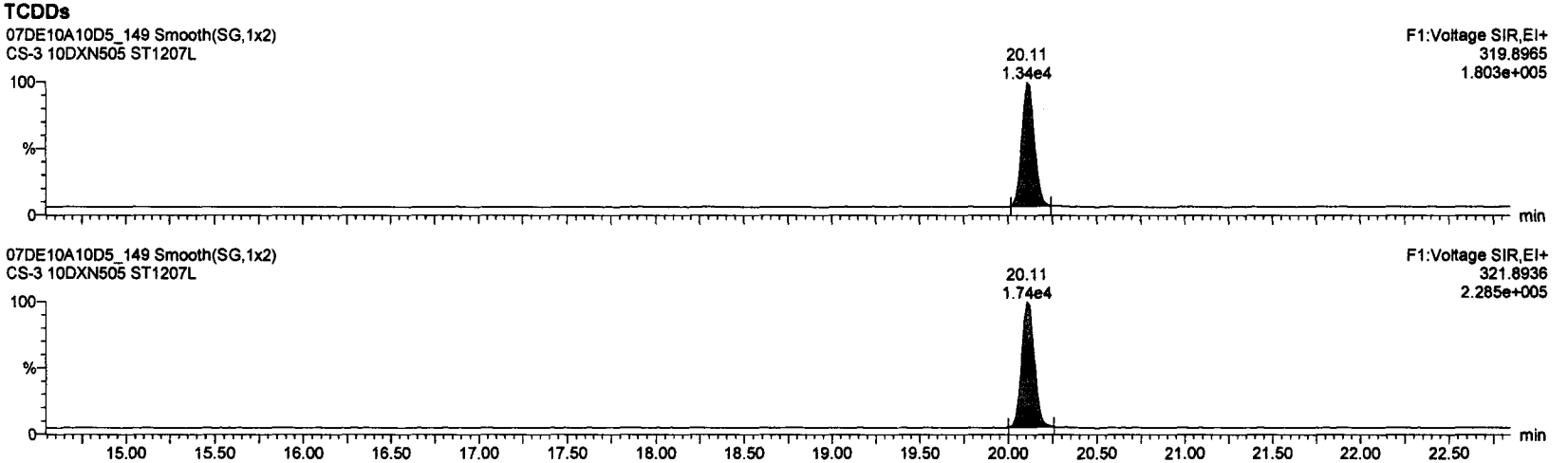
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

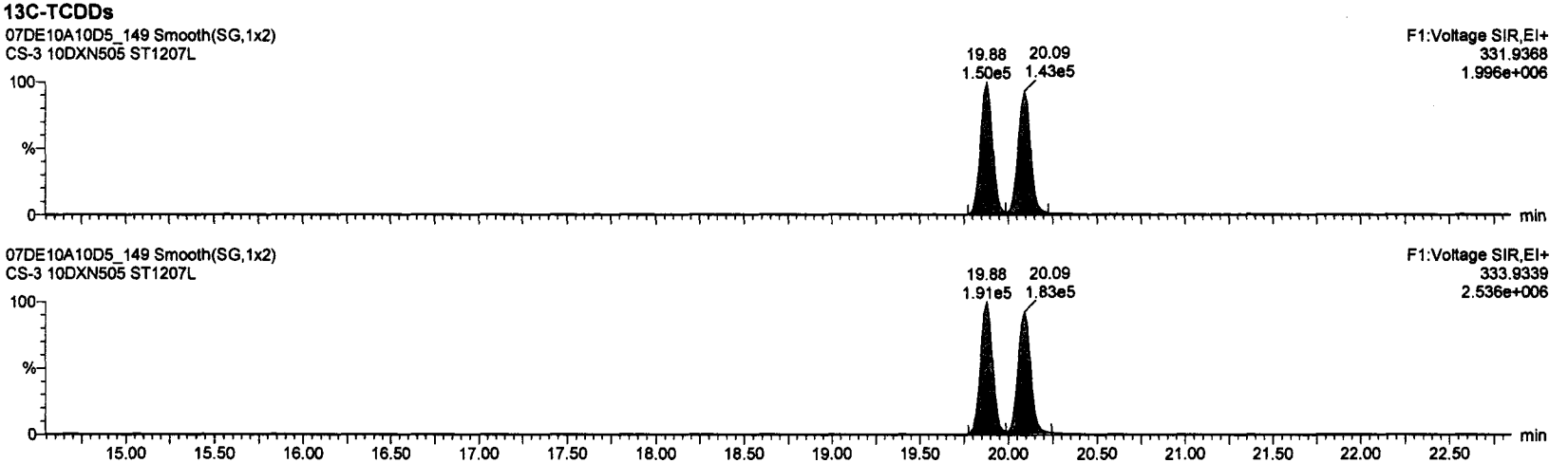
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

TCDDs



13C-TCDDs



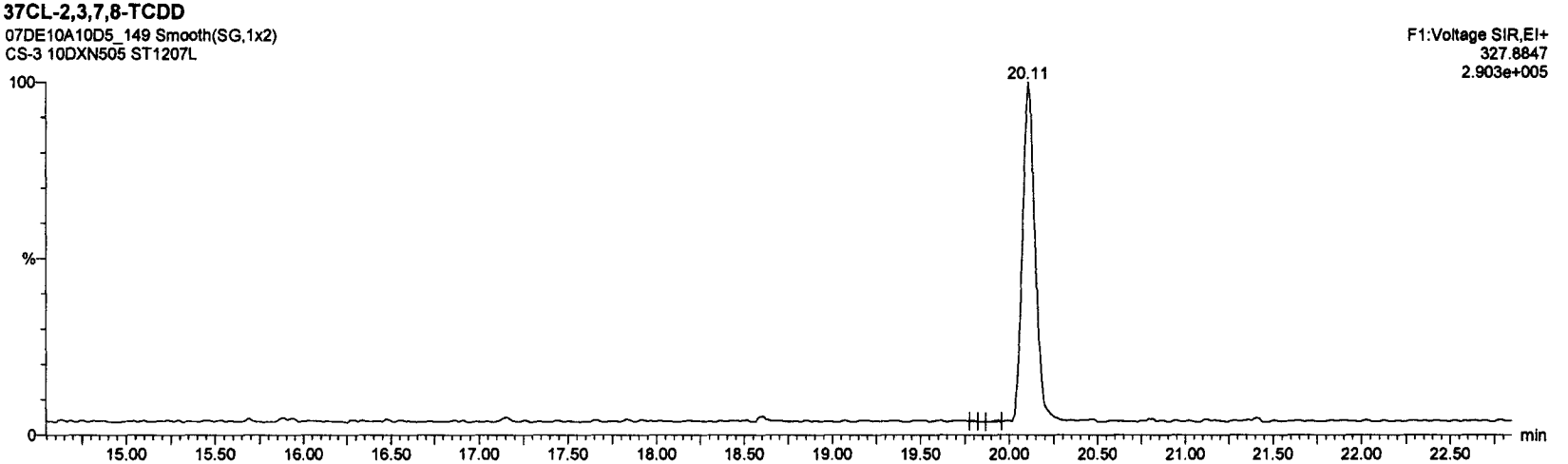
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

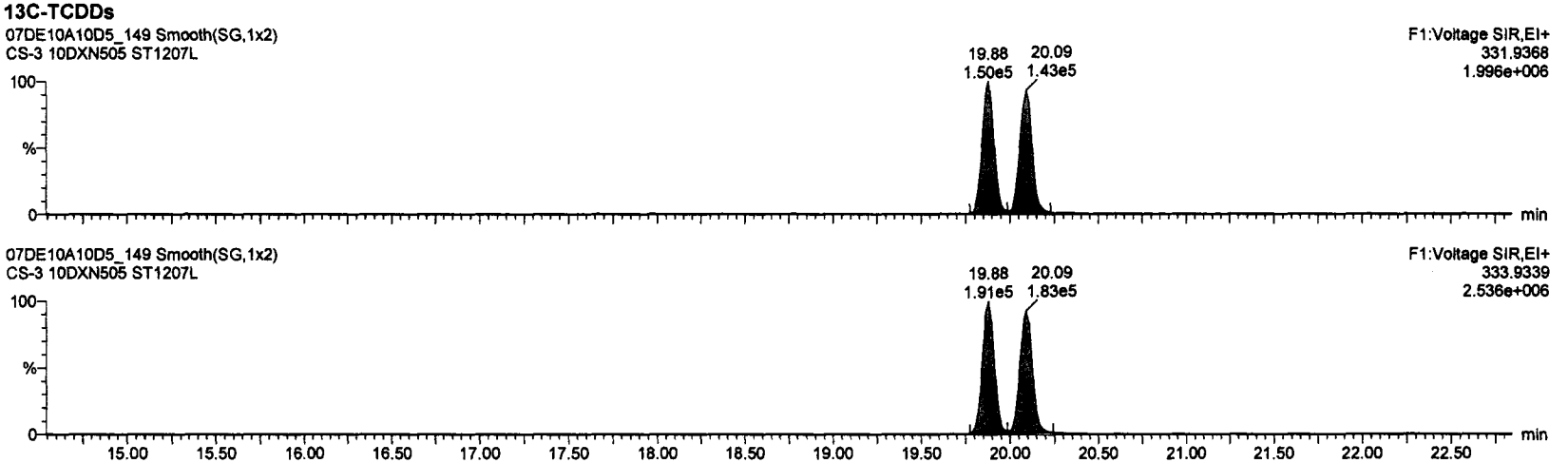
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

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



13C-TCDDs



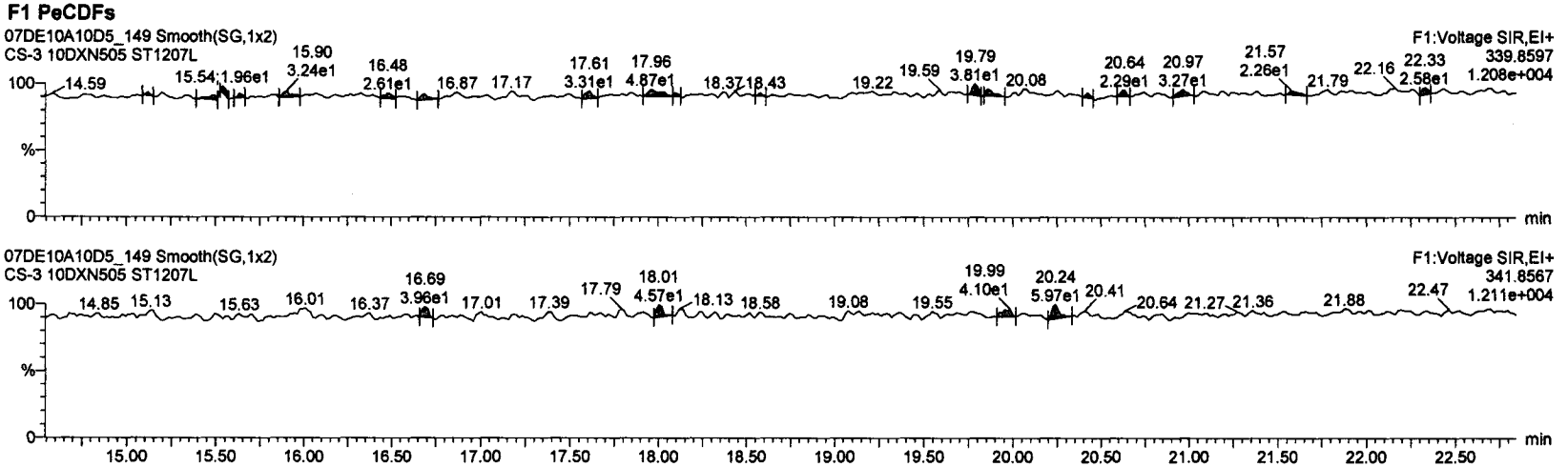
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

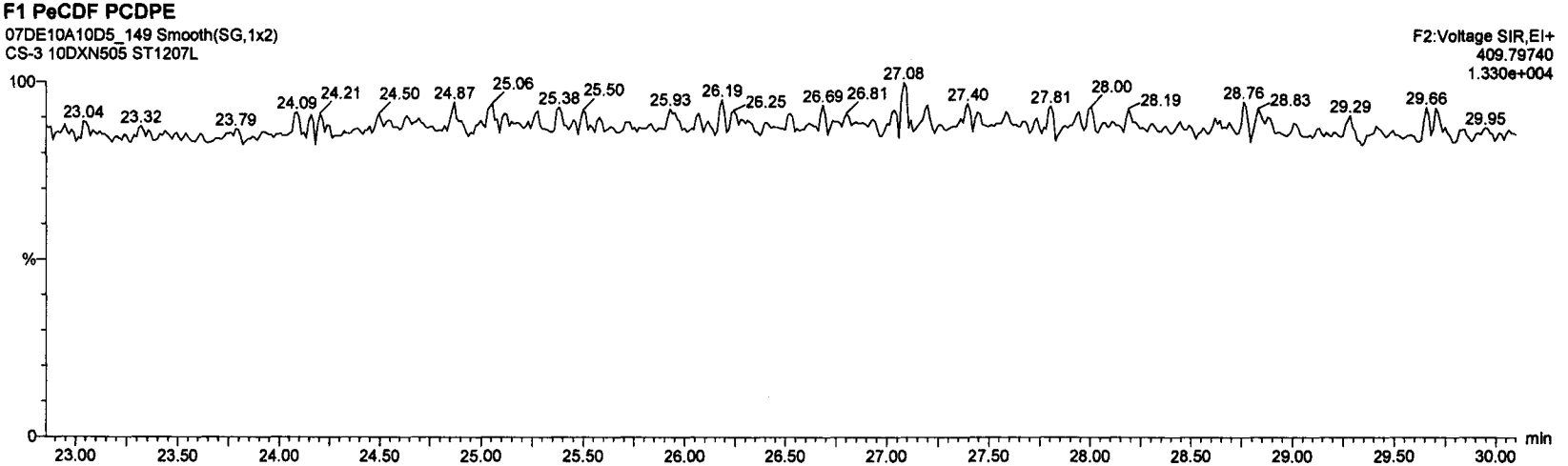
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

F1 PeCDFs



F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

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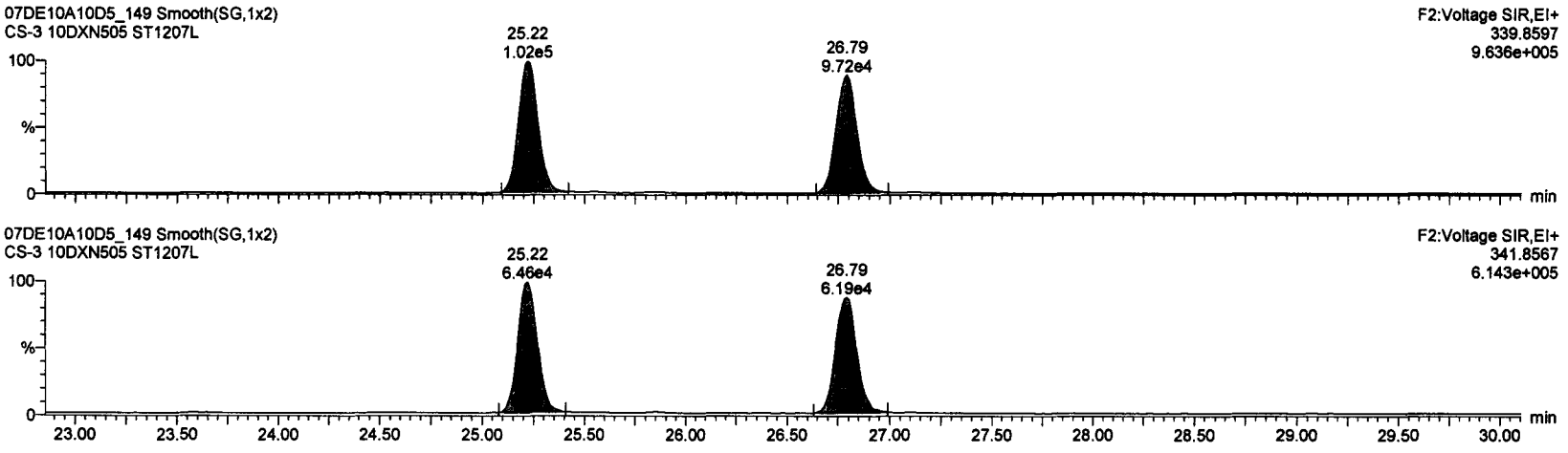
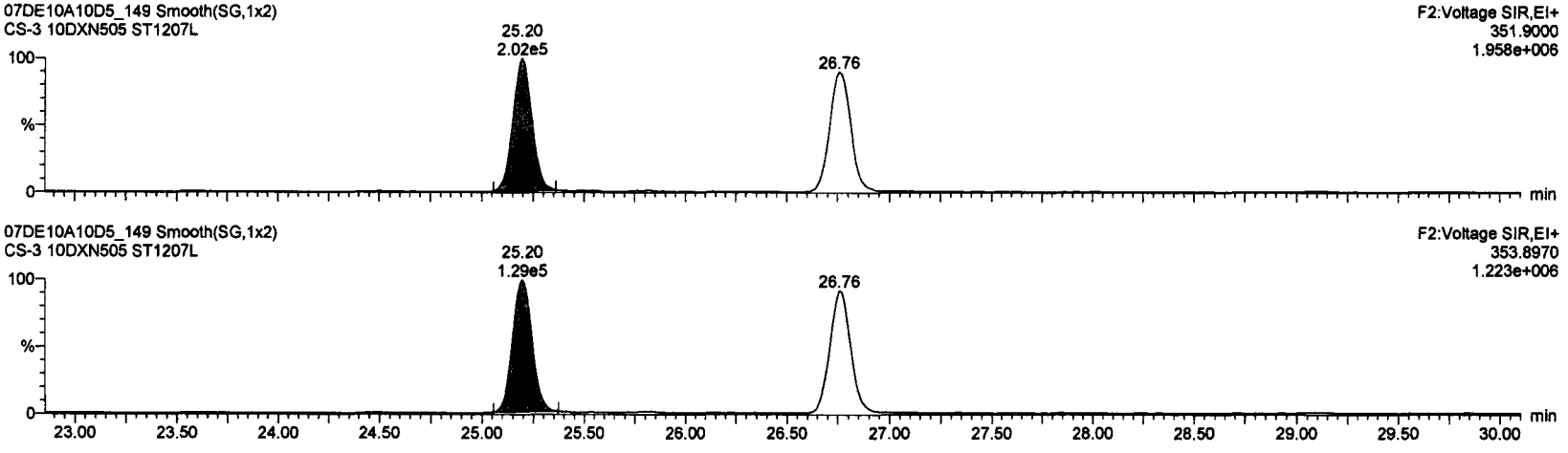
PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
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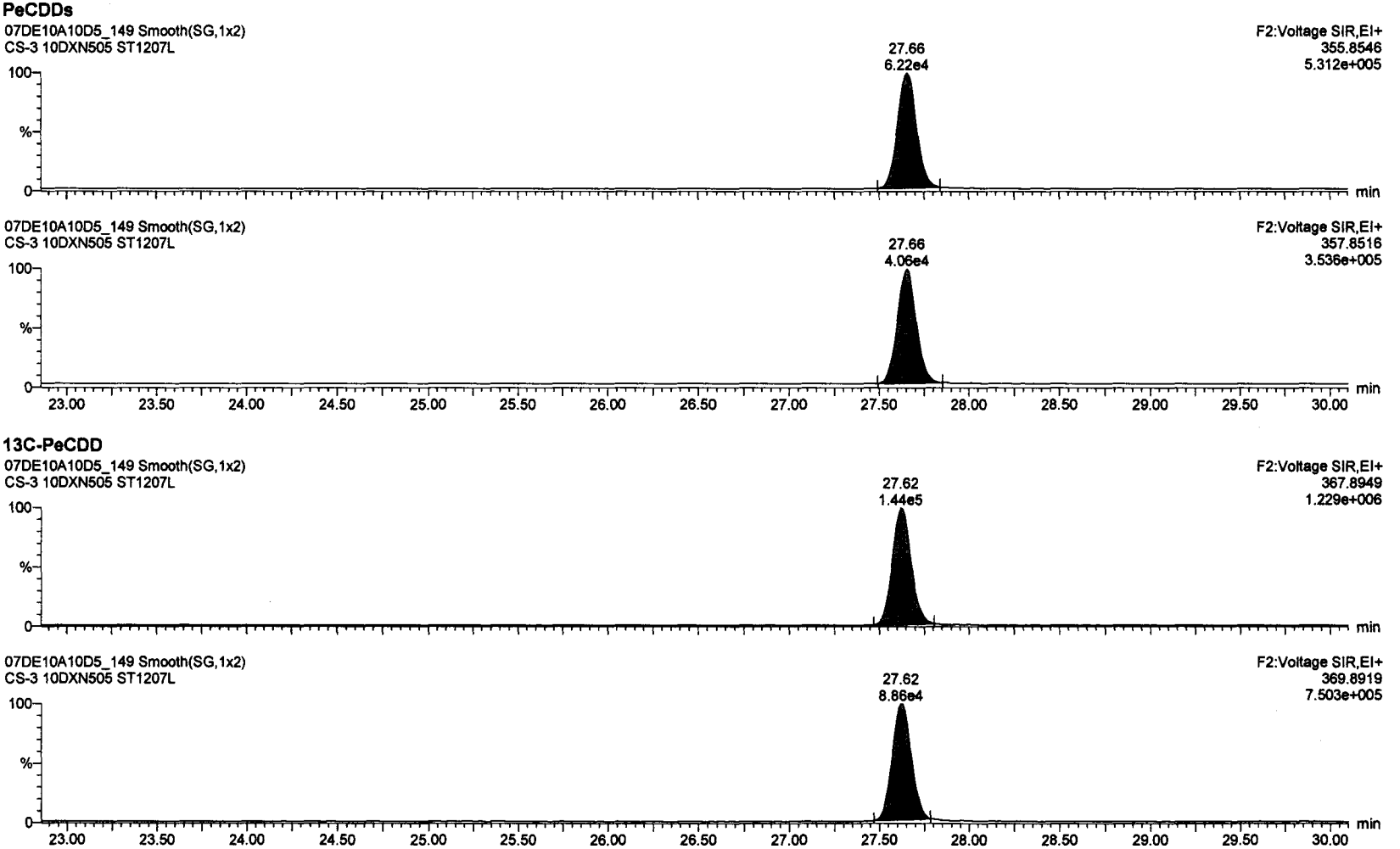
Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

PeCDDs



13C-PeCDD

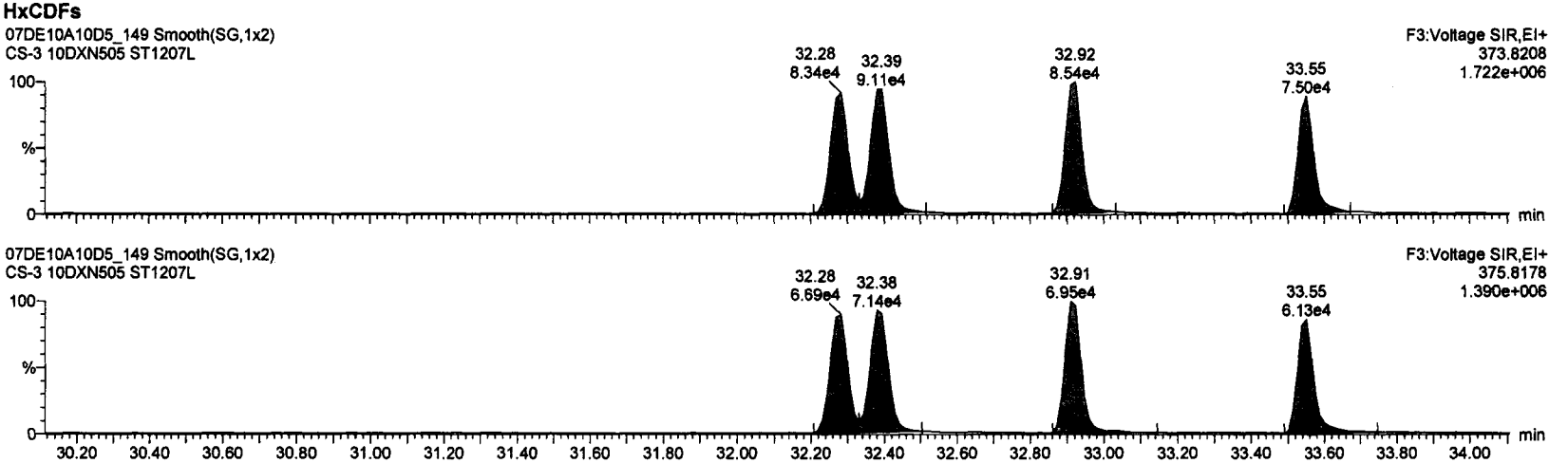
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

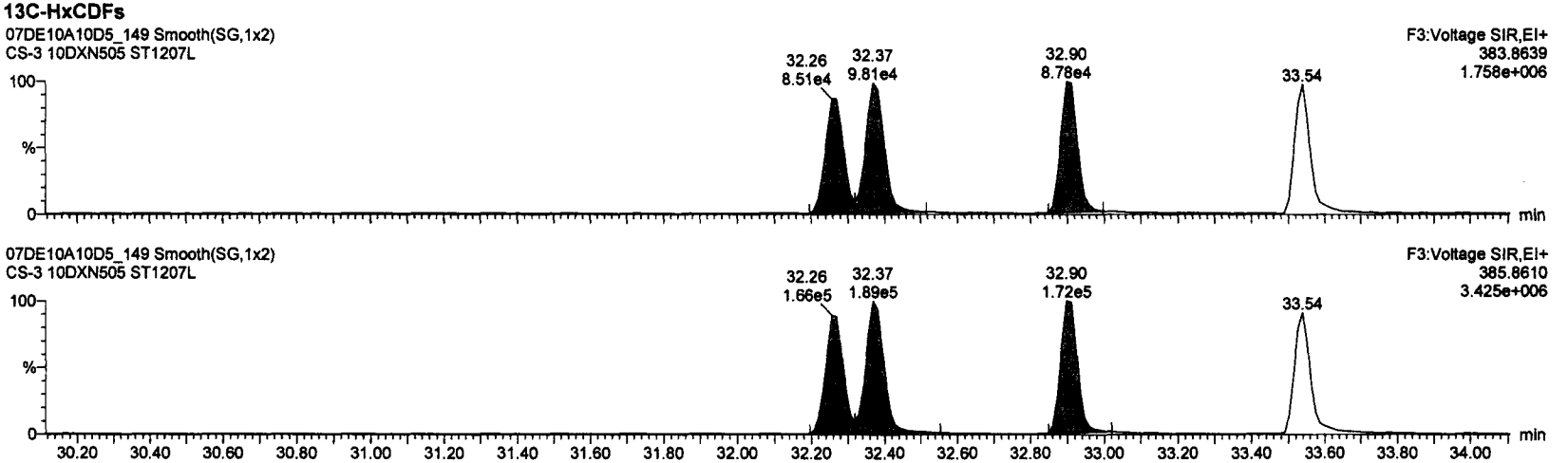
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

HxCDFs



13C-HxCDFs



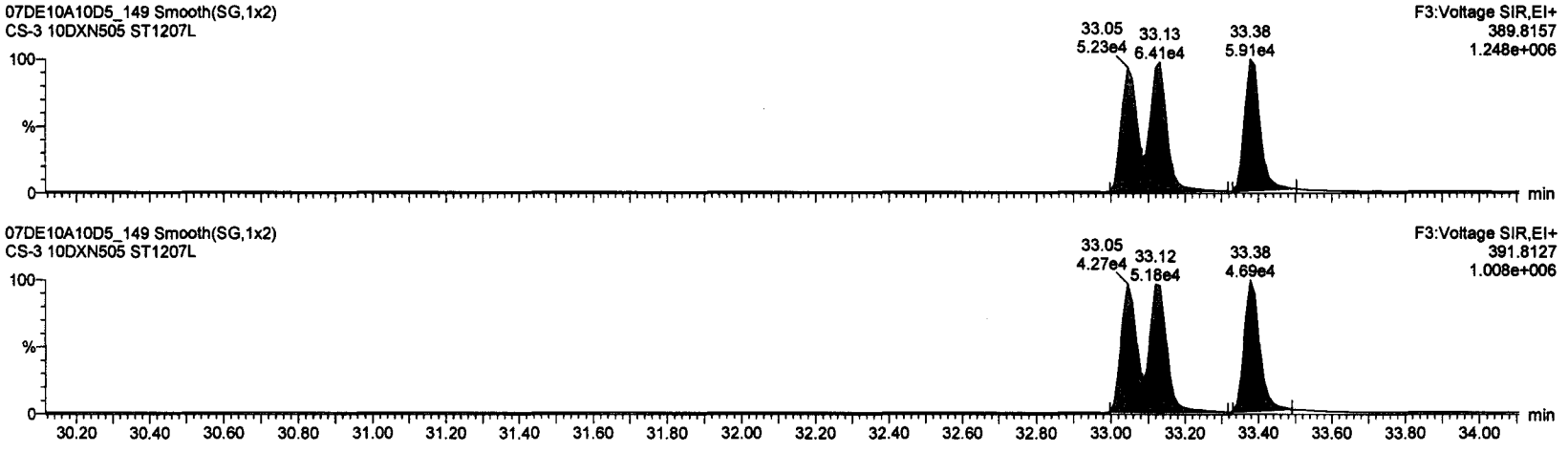
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

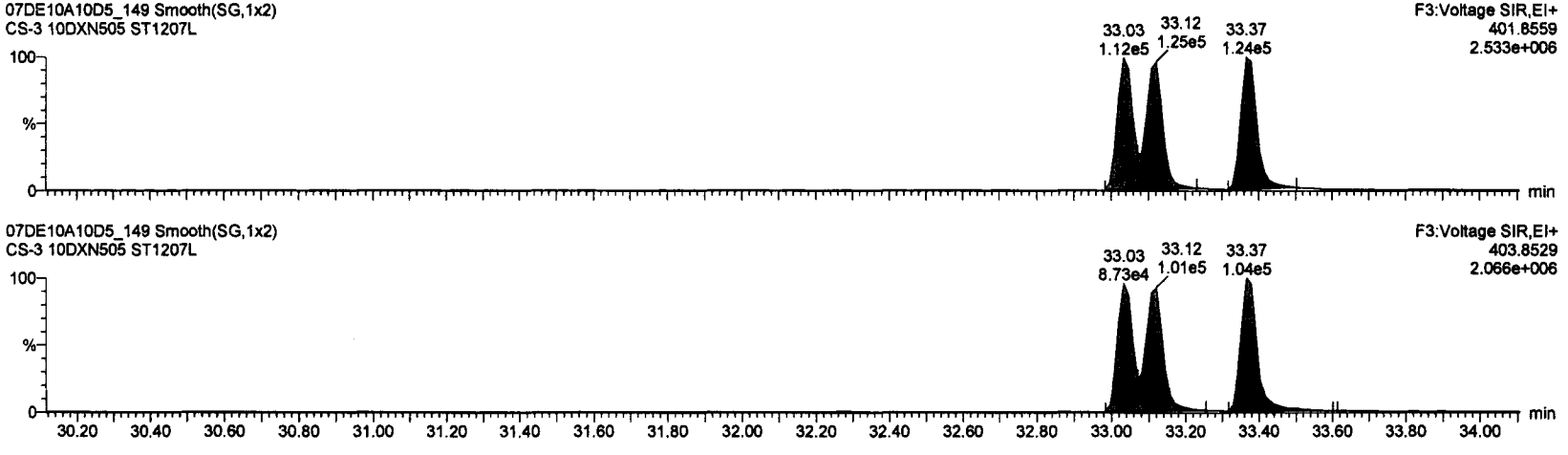
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

HxCDDs



13C-1,2,3,6,7,8-HxCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
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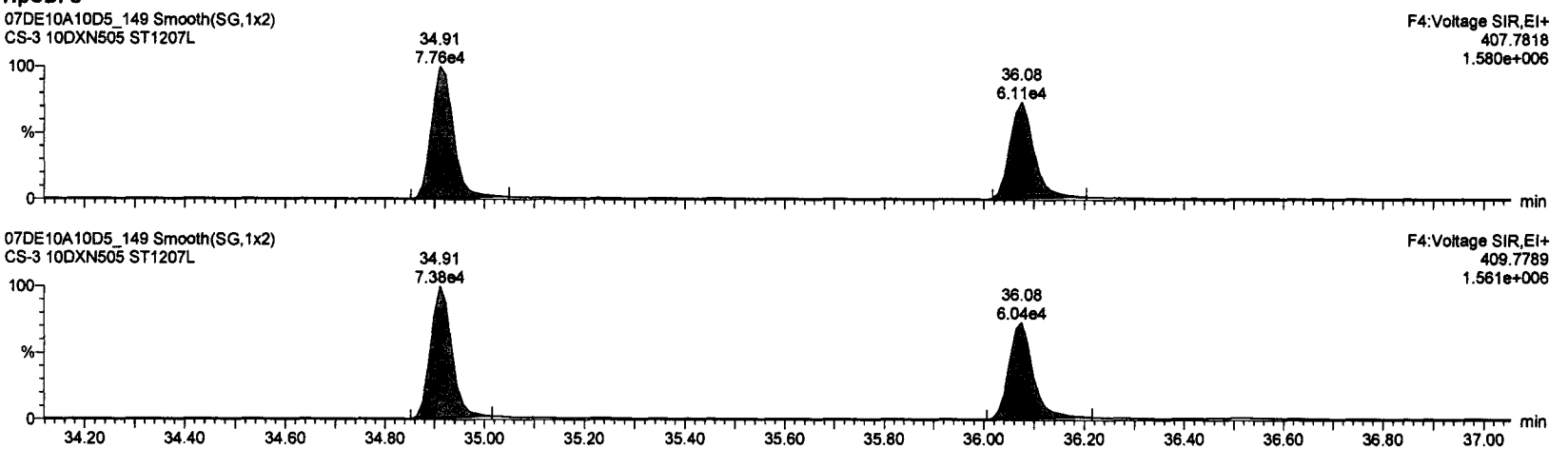
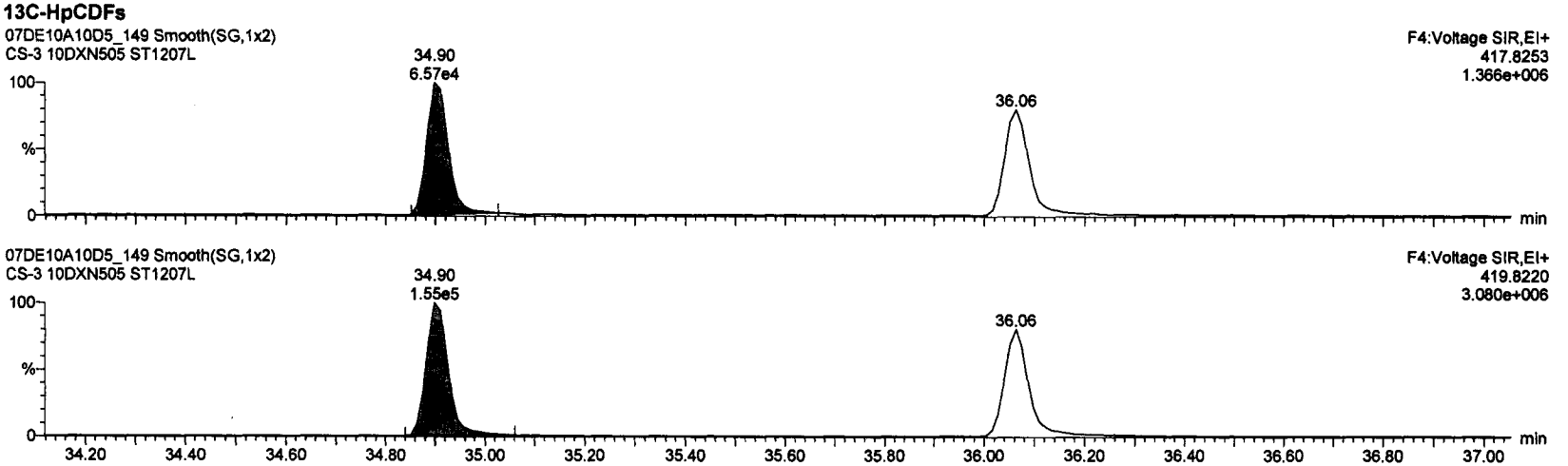
Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

HpCDFs



13C-HpCDFs



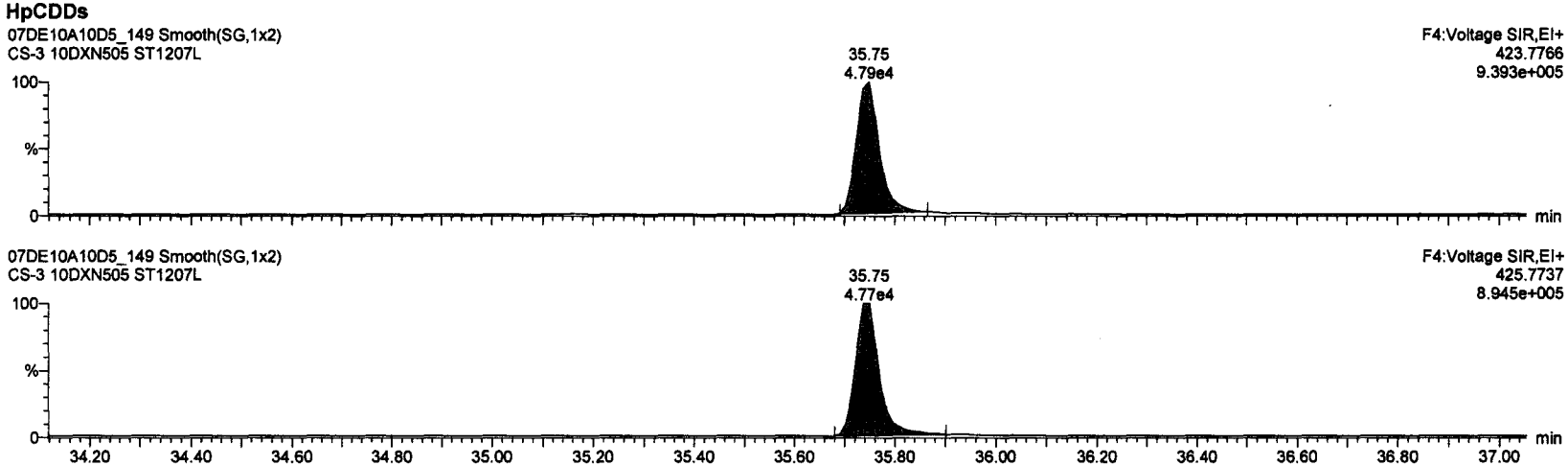
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

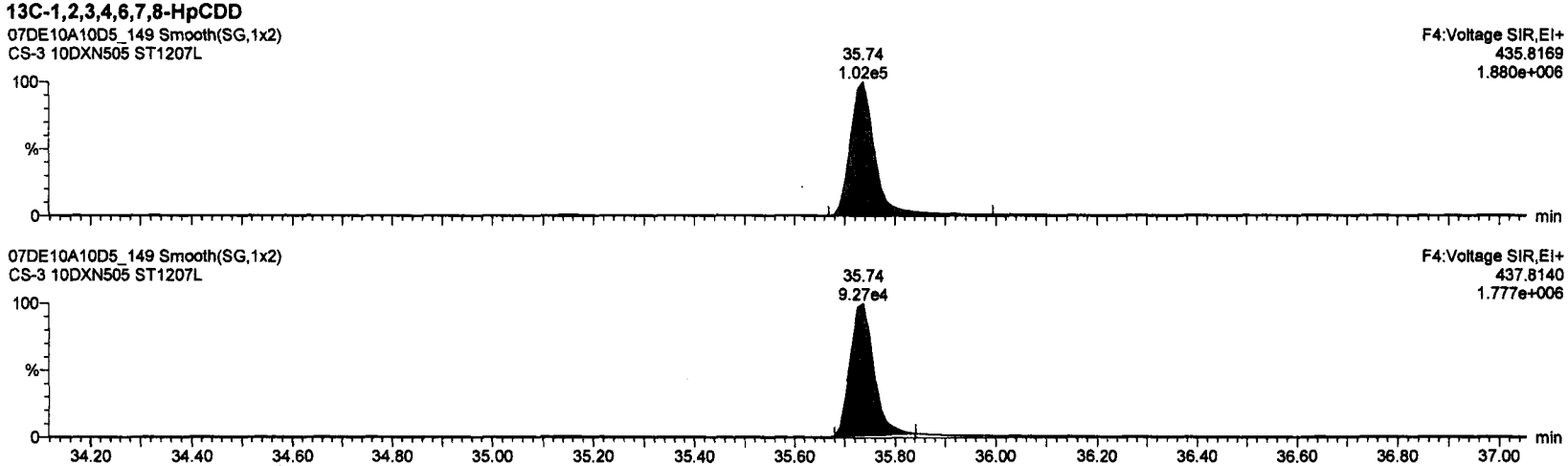
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



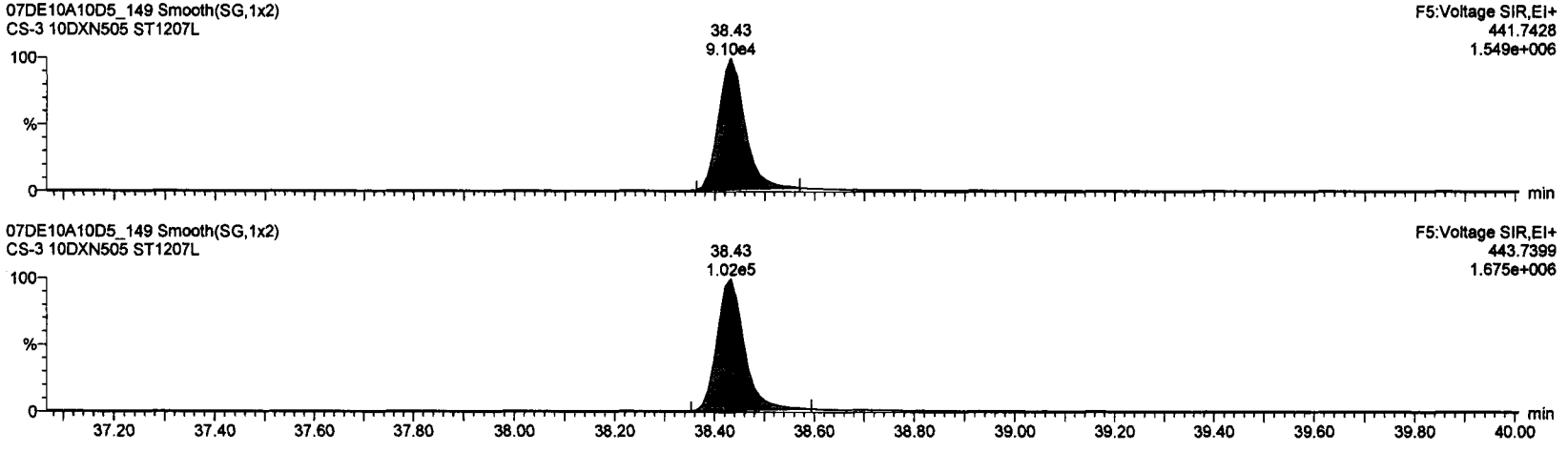
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

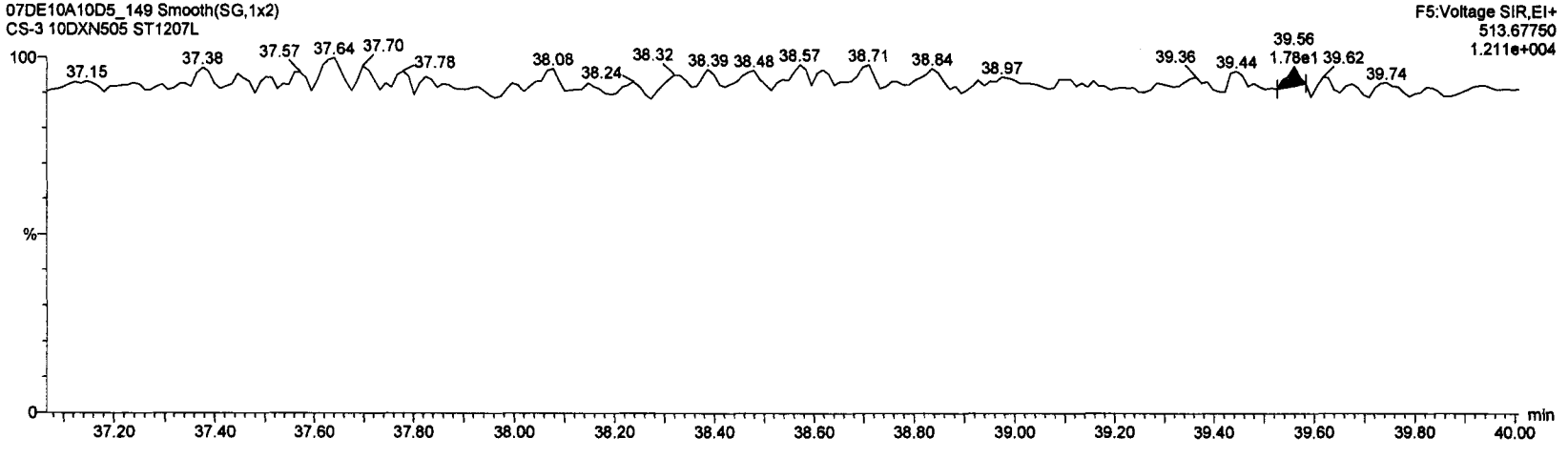
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

OCDFs



OCDF PCDPE



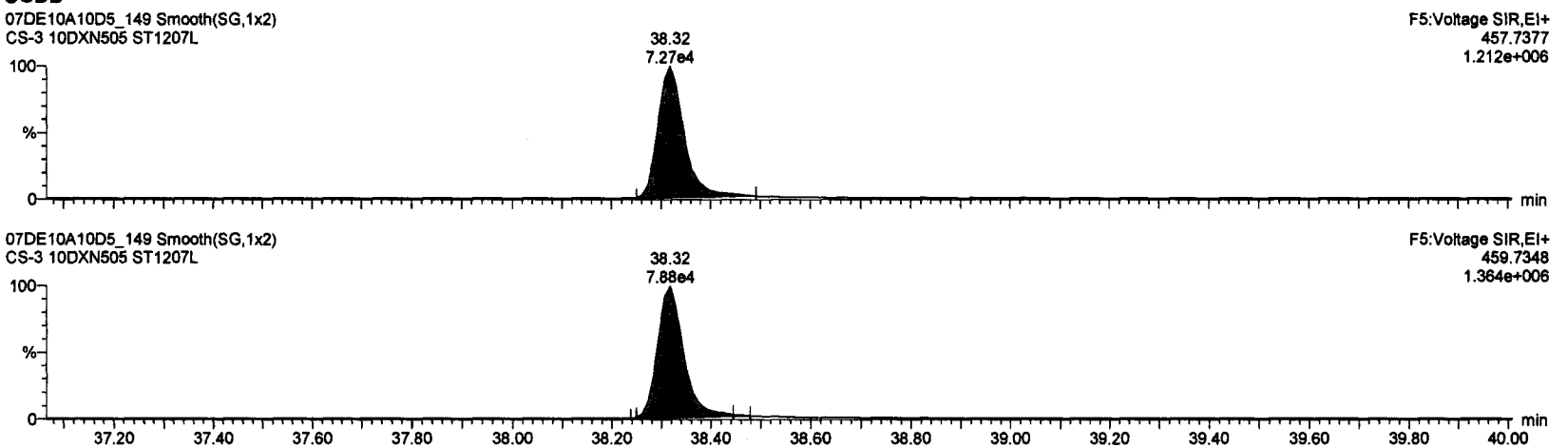
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

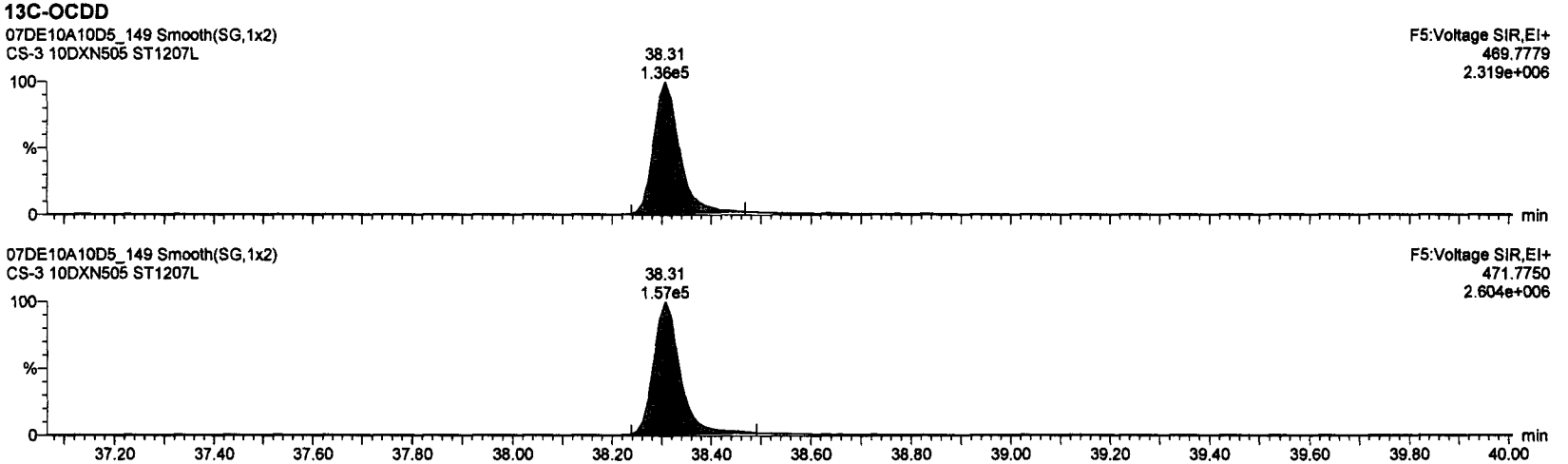
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

OCDD



13C-OCDD



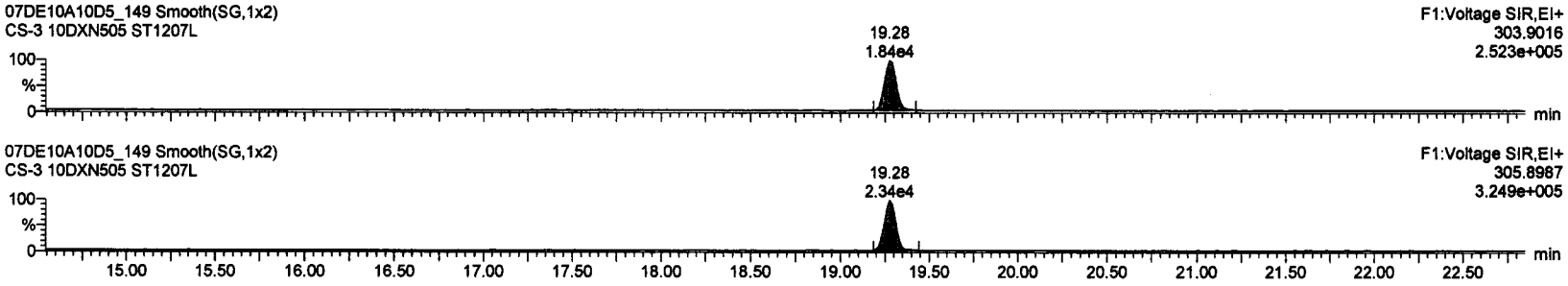
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

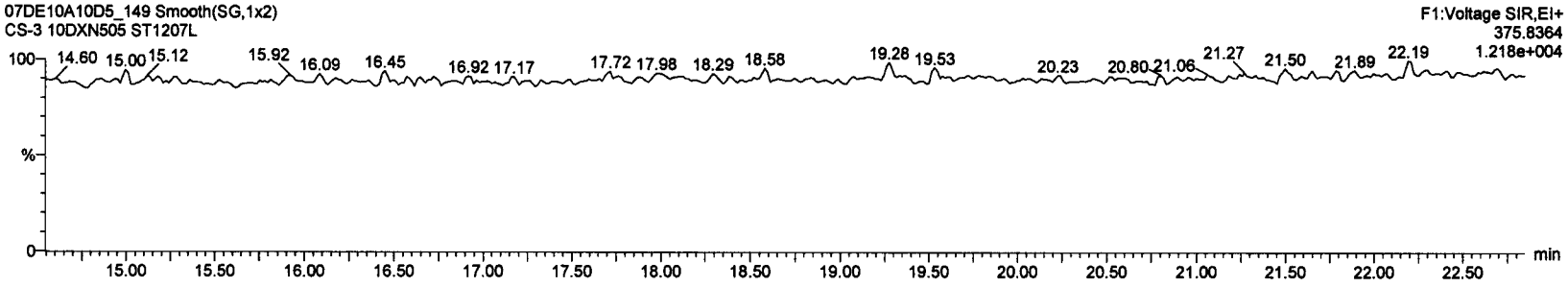
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

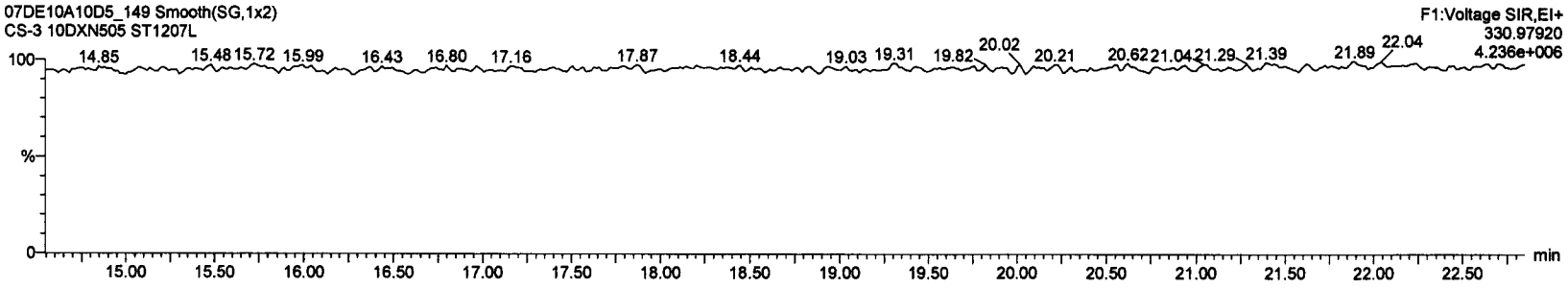
TCDFs



TCDF PCDPE



Function 1 PFK



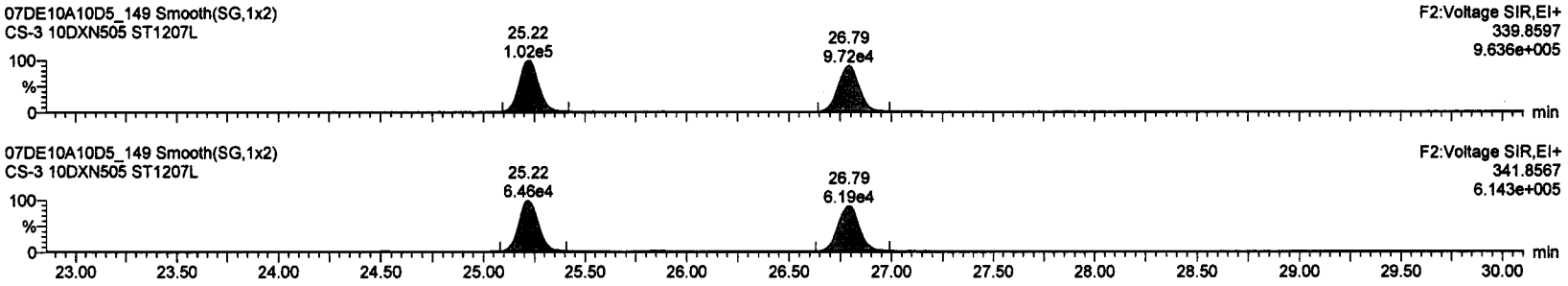
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

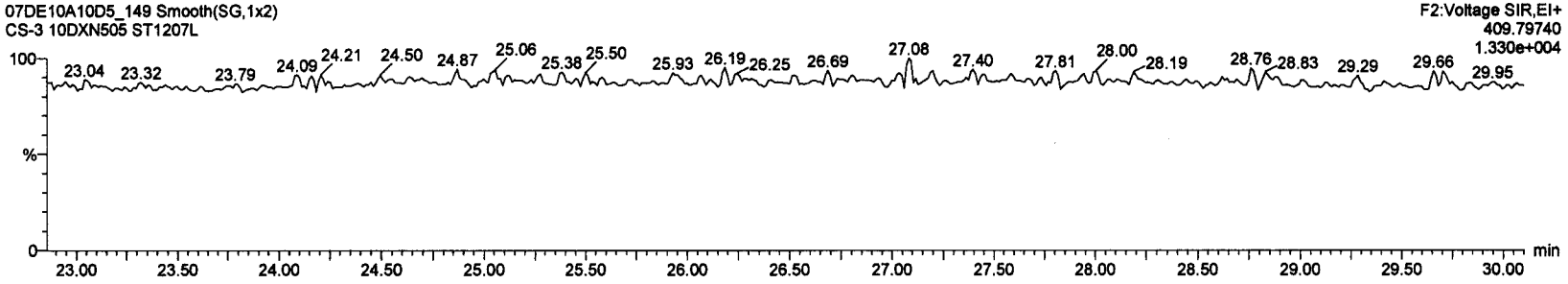
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

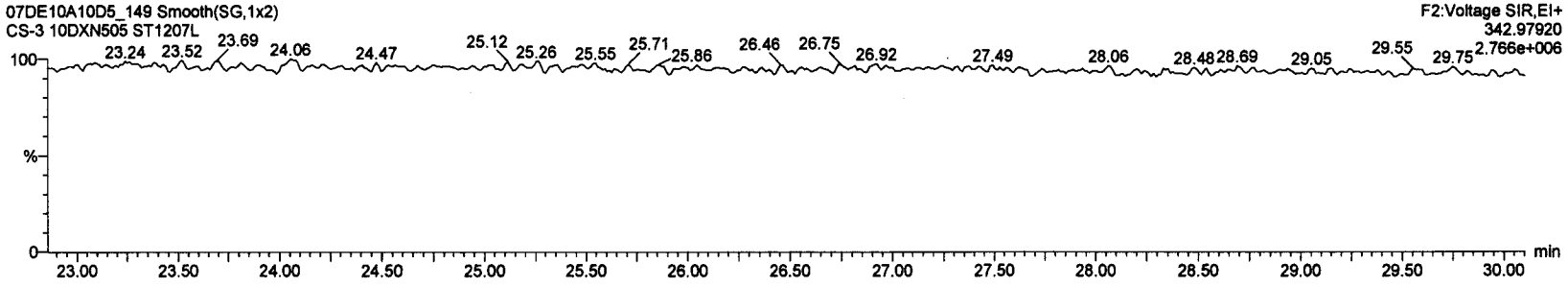
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



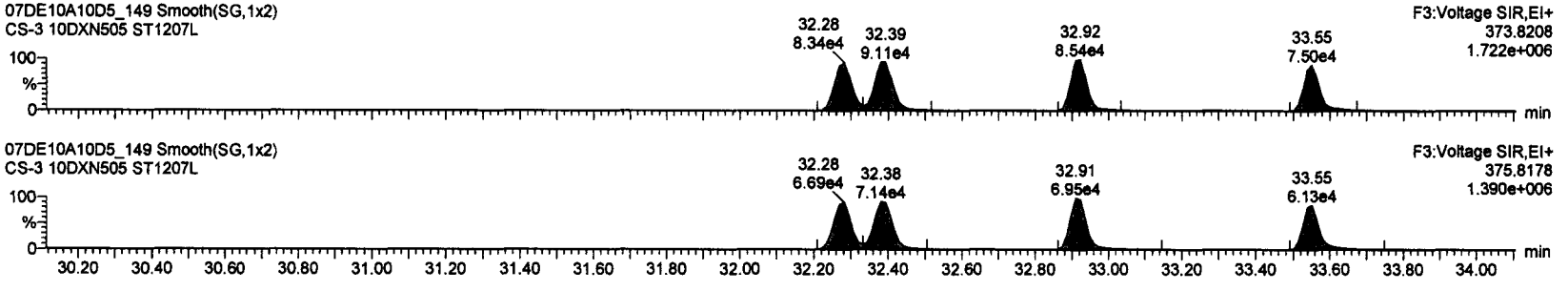
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

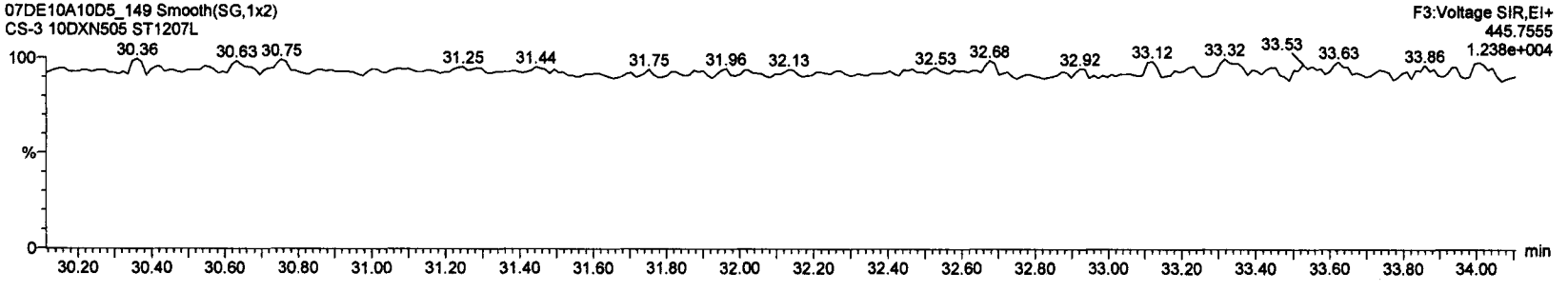
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

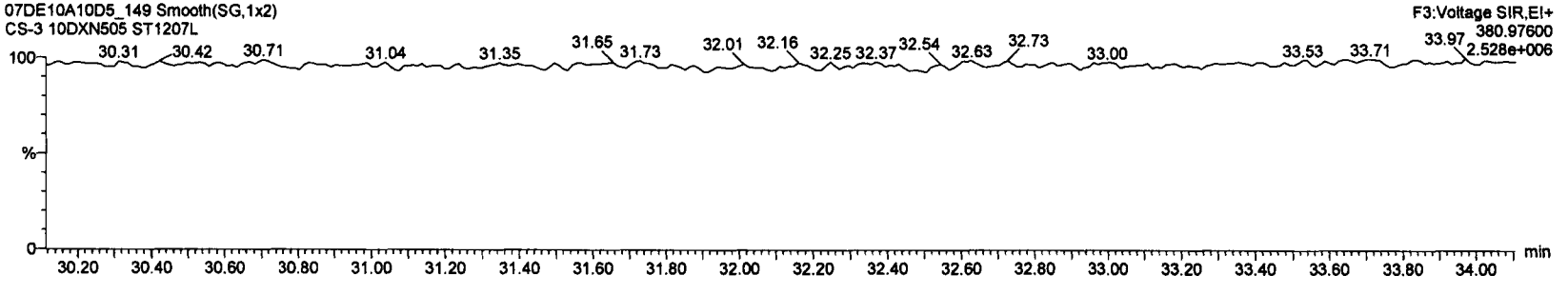
HxCDFs



HxCDF PCDPE



Function 3 PFK



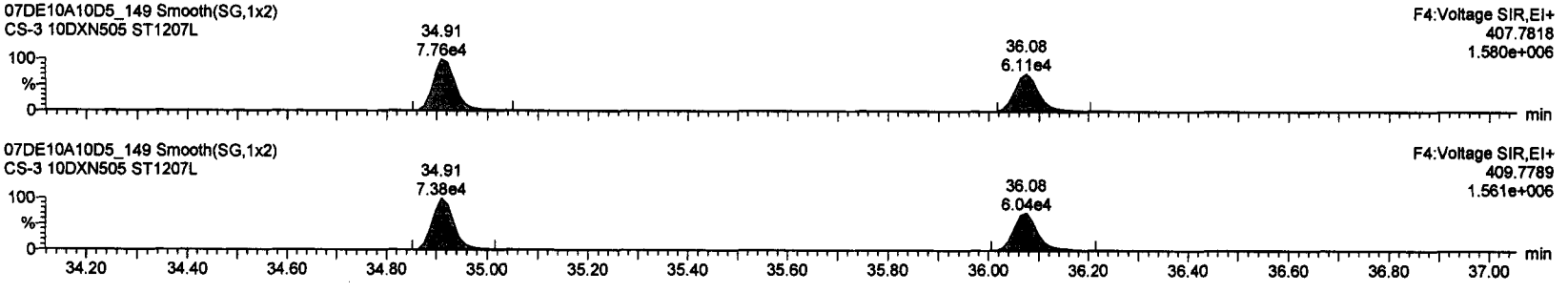
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

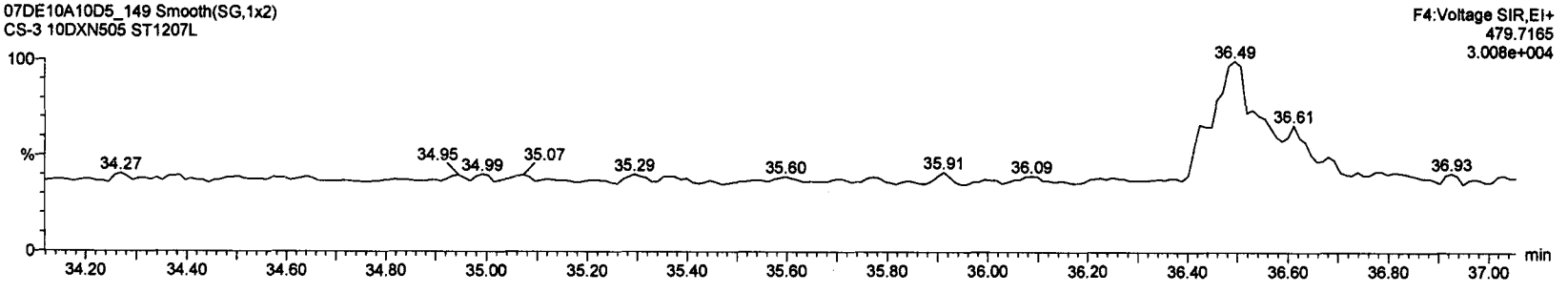
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

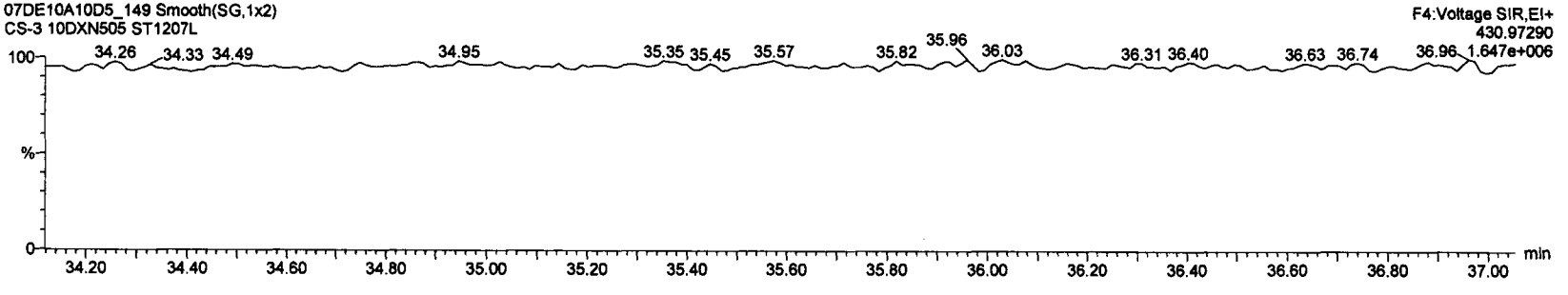
HpCDFs



HpCDF PCDPE



Function 4 PFK



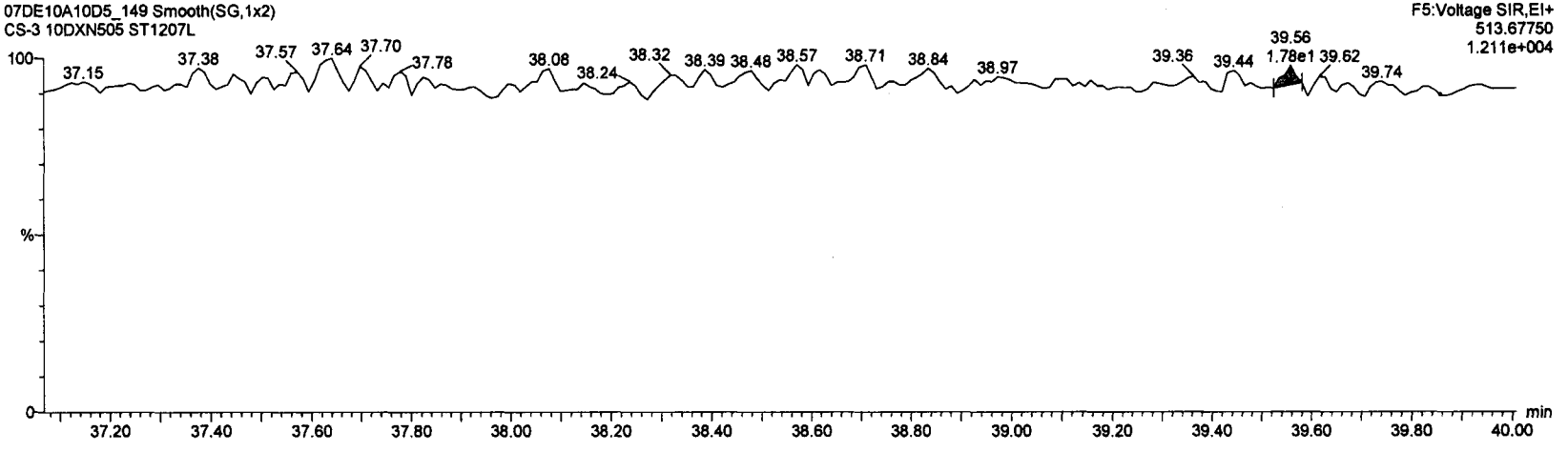
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\07DE10A10D5TO9K.qld

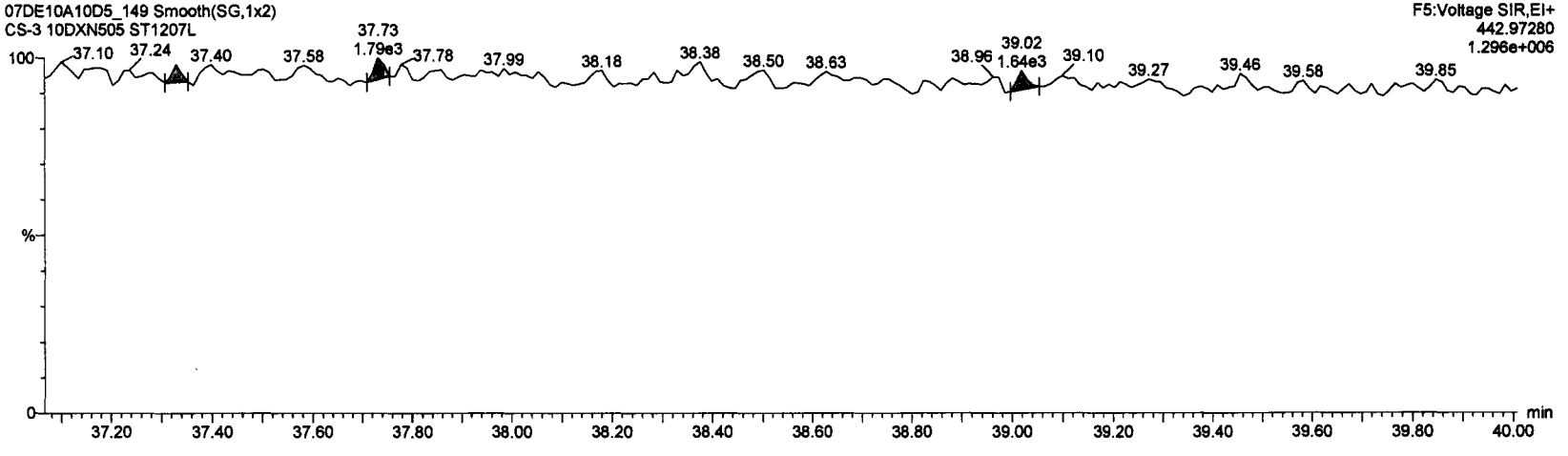
Last Altered: Monday, December 13, 2010 11:34:20 Pacific Standard Time
Printed: Monday, December 13, 2010 11:35:34 Pacific Standard Time

Name: 07DE10A10D5_149, Date: 12-Dec-2010, Time: 08:46:19, ID: ST1207L, Description: CS-3 10DXN505

OCDF PCDPE



Function 5 PFK



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID TO9 **Associated ICAL** DB225A1R121410SD2

Column ID DB225 **Instrument ID** 502

STD ID ST1214F, ST1214G **STD Solution** C63 100xN505

Analyzed by AM **Date Analyzed** 12-14-10, 12-15-10

Std. Pkg. By KSS **Date Std. Pkg. Assembled** 12-15-10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12-15-10

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

COMMENTS: ① ending CCV ST1214G has 13C-2,3,7,8-TCDF↑ (e+39.8%D) see NCM # 07-0118083

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria:** 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1214F File text: ST1214F :CS3 10DXN505
Run #6 Filename 14DE10C5D2 S: 2 I: 1
Acquired: 14-DEC-10 21:33:00 Processed: 15-DEC-10 09:39:49
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2 Results: 14DE10C5D2DB225AIR

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	155096900	0.81	y	15:16	-	100.00	-	n
13C-2,3,7,8-TCDF	379414000	0.82	y	16:29	2.45	100.00	20.9	n
2,3,7,8-TCDF	36995200	0.73	y	16:29	0.98	10.00	-3.6	n
13C-2,3,7,8-TCDD	156571200	0.79	y	14:56	1.01	100.00	2.5	n
2,3,7,8-TCDD	25517400	0.80	y	14:57	1.63	10.00	4.3	n
37Cl-2,3,7,8-TCDD	28173000	1.00	y	14:57	1.80	10.00	1.4	n

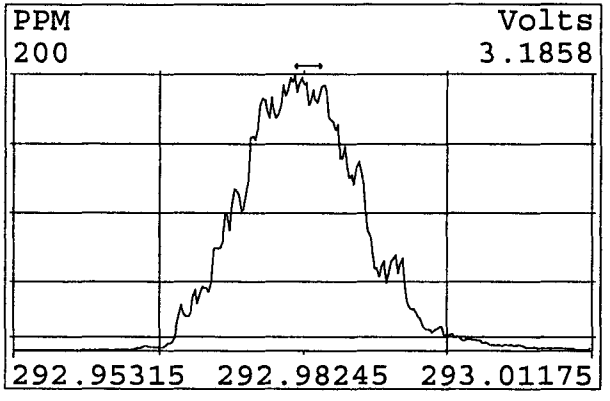
Run text: ST1214G File text: ST1214G :CS3 10DXN505
Run #10 Filename 14DE10C5D2 S: 19 I: 1
Acquired: 15-DEC-10 07:51:03 Processed: 15-DEC-10 09:41:11
Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2 Results: 14DE10C5D2DB225AIR

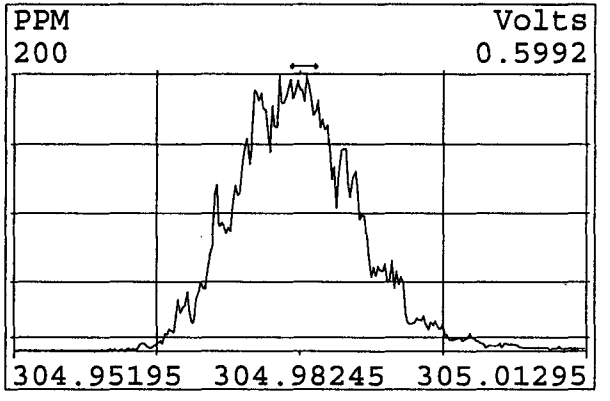
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	103920700	0.84	y	15:09	-	100.00	-	n
13C-2,3,7,8-TCDF	293763000	0.81	y	16:23	2.83	100.00	39.8	n
2,3,7,8-TCDF	30296900	0.76	y	16:23	1.03	10.00	1.9	n
13C-2,3,7,8-TCDD	100309200	0.81	y	14:51	0.97	100.00	-2.0	n
2,3,7,8-TCDD	18078150	0.78	y	14:52	1.80	10.00	15.4	n
37Cl-2,3,7,8-TCDD	17866220	1.00	y	14:52	1.78	10.00	0.4	n

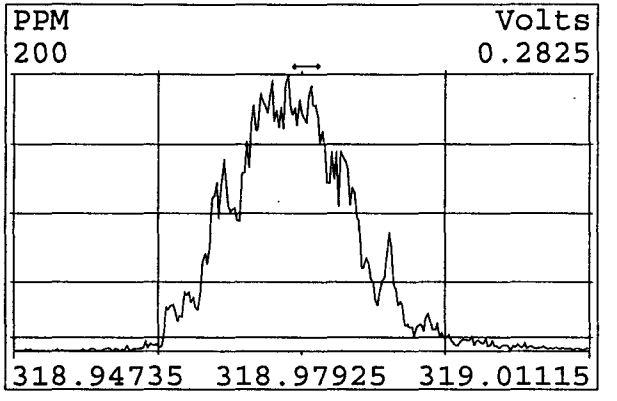
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14DE10C5D2	1	CP1214B	DB-225 CPSM 3732-11				1.0000	
14DE10C5D2	2	ST1214F	CS3 10DXN505				1.0000	
14DE10C5D2	3	SB1214B	Solvent Blank C-14				1.0000	
14DE10C5D2	4	MA14E-1-AAB	G0L080446-1MB	20	1613B/WATER	34	1.0000	L
14DE10C5D2	5	MA1WG-1-AA	G0L080446-1	20	1613B/WATER		1.0350	L
14DE10C5D2	6	MAXTP-1-AC	G0L060483-1	20	1613B/SOLID	34	10.4600	g
14DE10C5D2	7	MA11D-1-AA	G0L080454-5	20	TO-9/AIR	34	0.5000	g
14DE10C5D2	8	MA12V-1-AA	G0L080454-11	20	TO-9/AIR		0.5000	g
14DE10C5D2	9	MA2RA-1-AC	G0L080567-11	10	8290/SOLID	34	10.1300	g
14DE10C5D2	10	MA2Q0-1-AC	G0L080567-5	10	8290/SOLID		10.2900	g
14DE10C5D2	11	MA2Q1-1-AC	G0L080567-6	10	8290/SOLID		10.3000	g
14DE10C5D2	12	MA2Q2-1-AC	G0L080567-7	10	8290/SOLID		9.7400	g
14DE10C5D2	13	MA2Q7-1-AC	G0L080567-10	10	8290/SOLID		9.7100	g
14DE10C5D2	14	MA2Q6-1-AC	G0L080567-9	10	8290/SOLID		10.3200	g
14DE10C5D2	15	MA2Q3-1-AC	G0L080567-8	10	8290/SOLID		10.4500	g
14DE10C5D2	16	MAWH4-1-AA	G0L040475-1	20	8290/SOLID	34	2.1700	g
14DE10C5D2	17	MAWH6-1-AA	G0L040475-3	20	8290/SOLID		10.2700	g
14DE10C5D2	18	SB1214C	Solvent Blank C-14				1.0000	
14DE10C5D2	19	ST1214G	CS3 10DXN505				1.0000	
14DE10C5D2	20						1.0000	
14DE10C5D2	21						1.0000	
14DE10C5D2	22						1.0000	
14DE10C5D2	23						1.0000	
14DE10C5D2	24		AM 12-14-10				1.0000	
14DE10C5D2	25						1.0000	

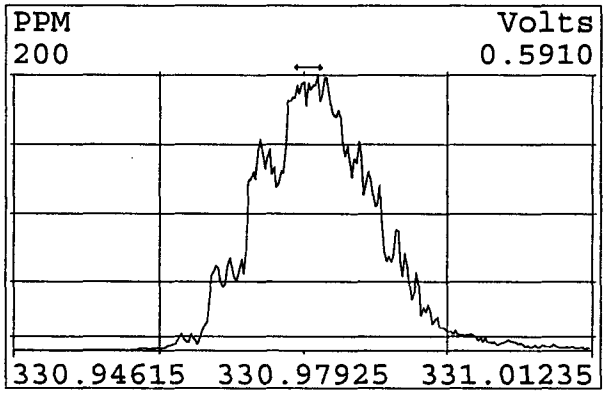
Logfile Void
12/15/10
KSS

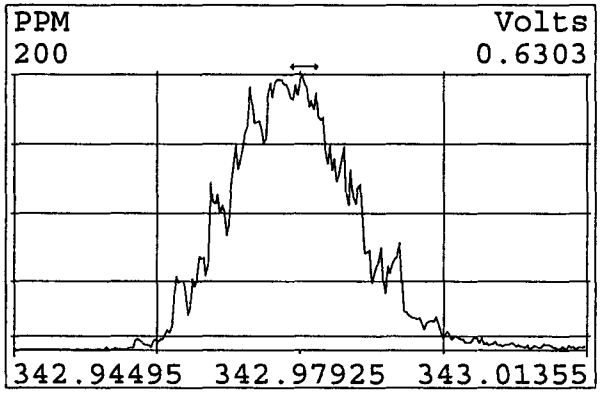
Peak Locate Examination:14-DEC-2010:20:51 File:14DE10C5D2
Experiment:DB225RES Function:1 Reference:PFK

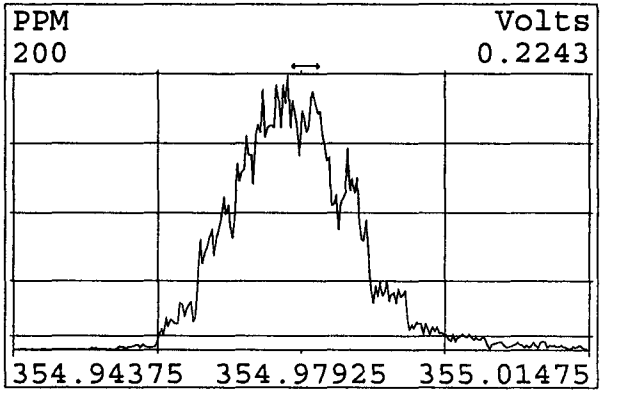


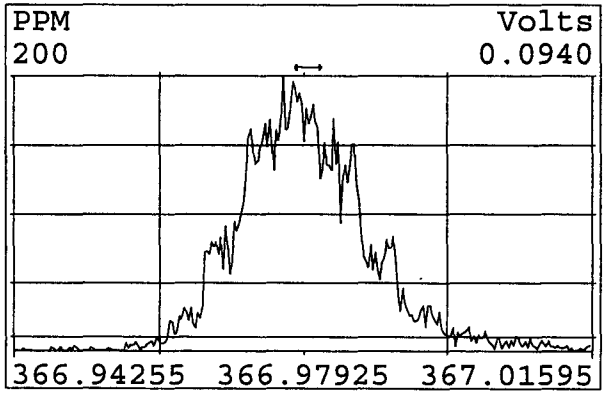


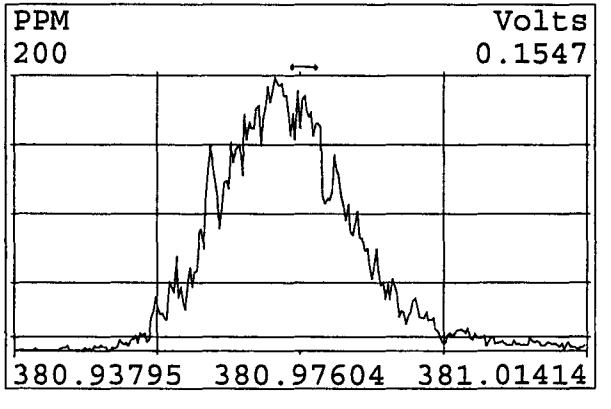




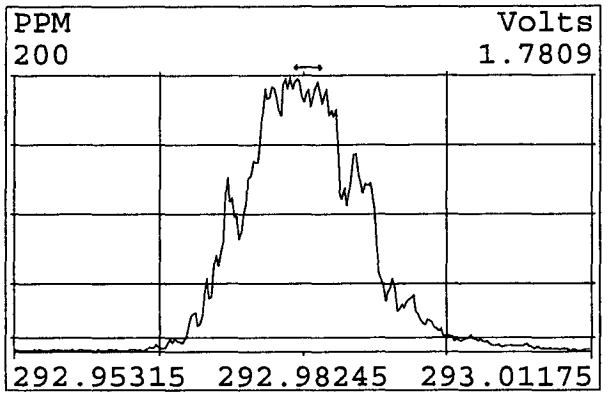


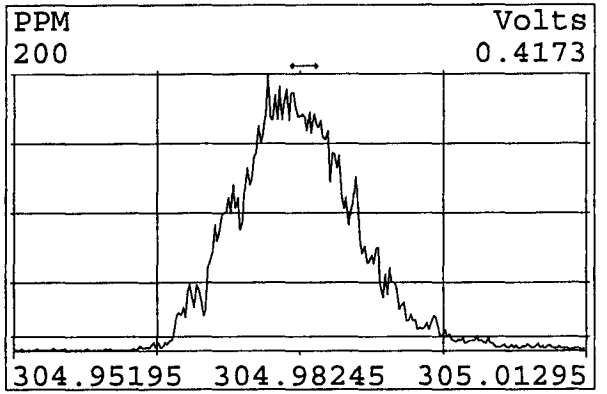


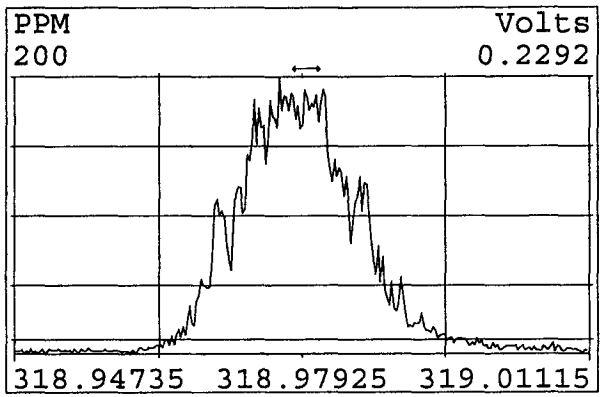


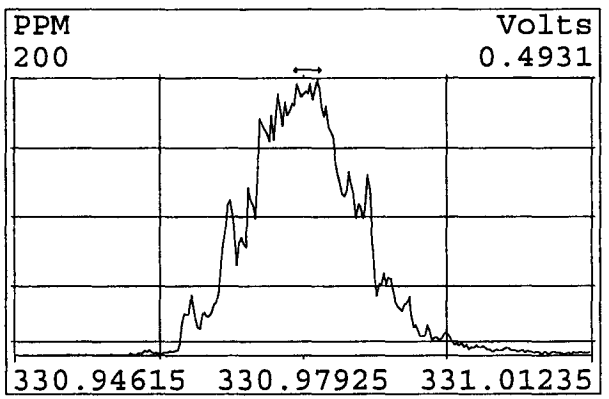


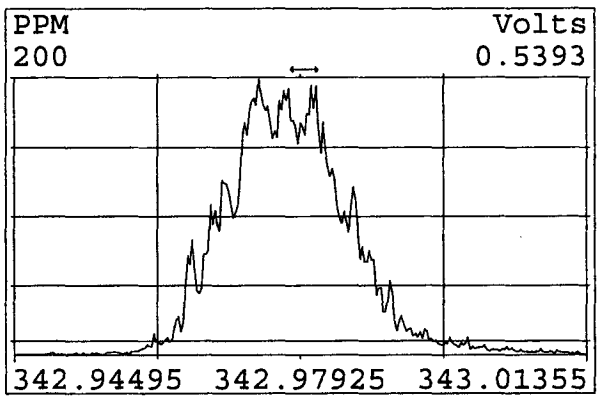
Peak Locate Examination:15-DEC-2010:08:31 File:14DE10C5D2ENDRES
Experiment:DB225RES Function:1 Reference:PFK

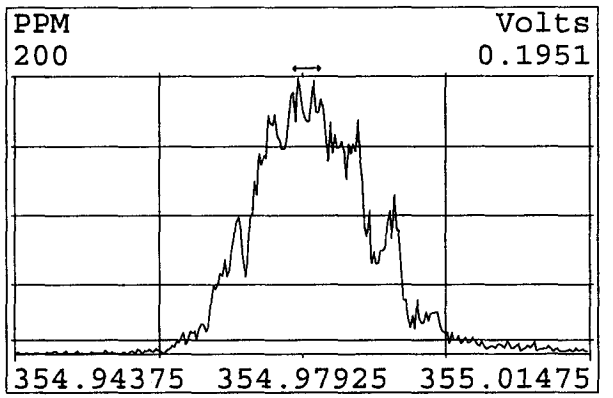


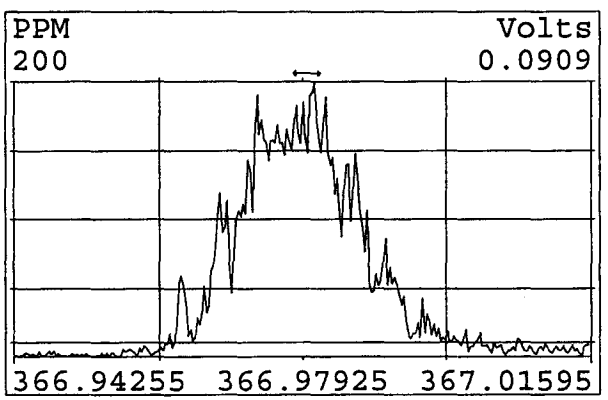


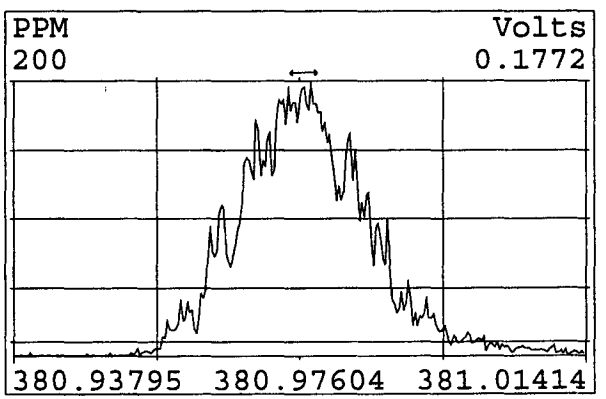




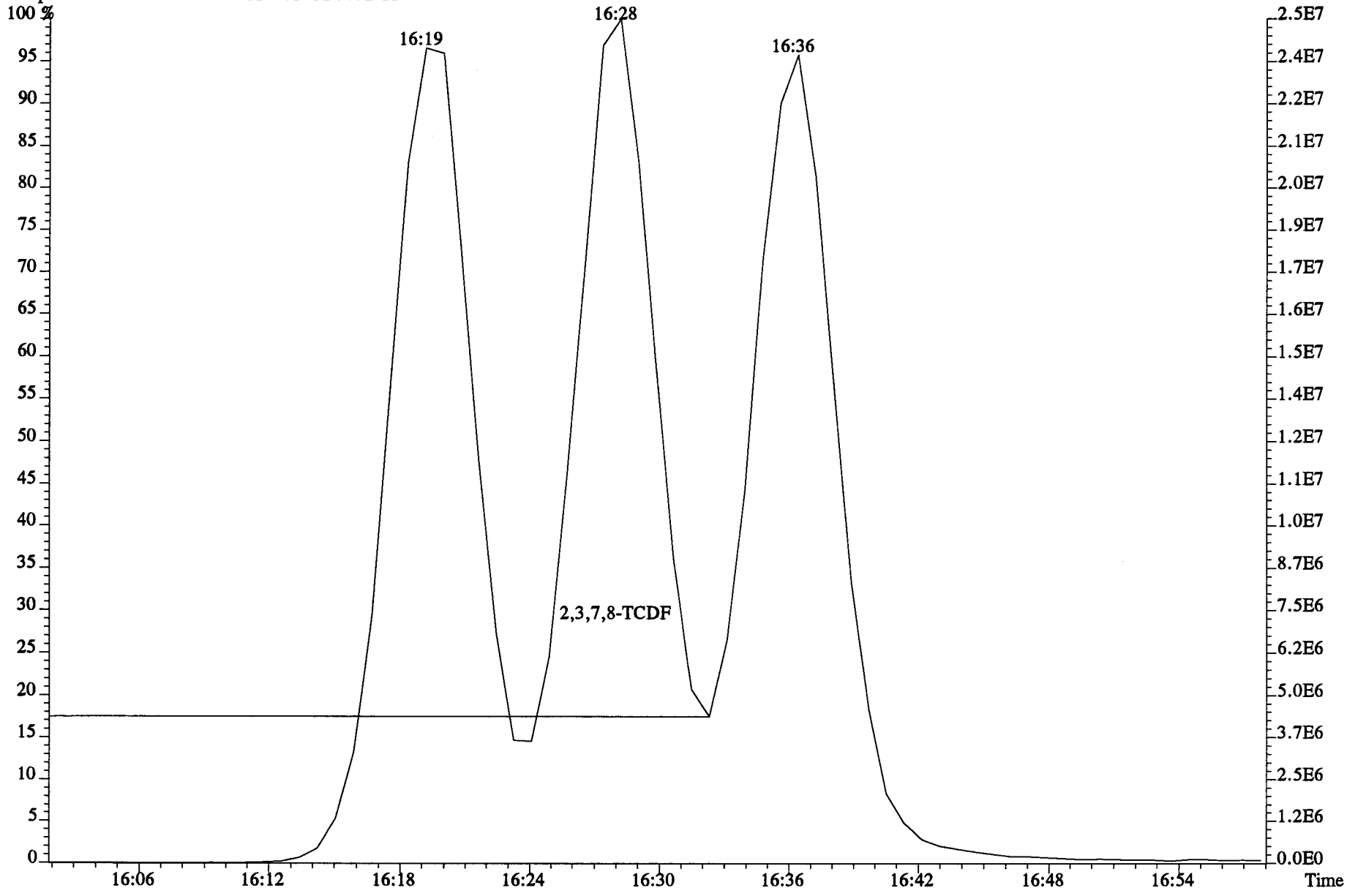








File:14DE10C5D2 #1-1241 Acq:14-DEC-2010 20:56:39 GC EI+ Voltage SIR 70SE
305.8987 BSUB(128,15,-3.0) Exp:DB225RES Noise:3236
Sample Text:CP1214B :DB-225 CPSM 3732-11

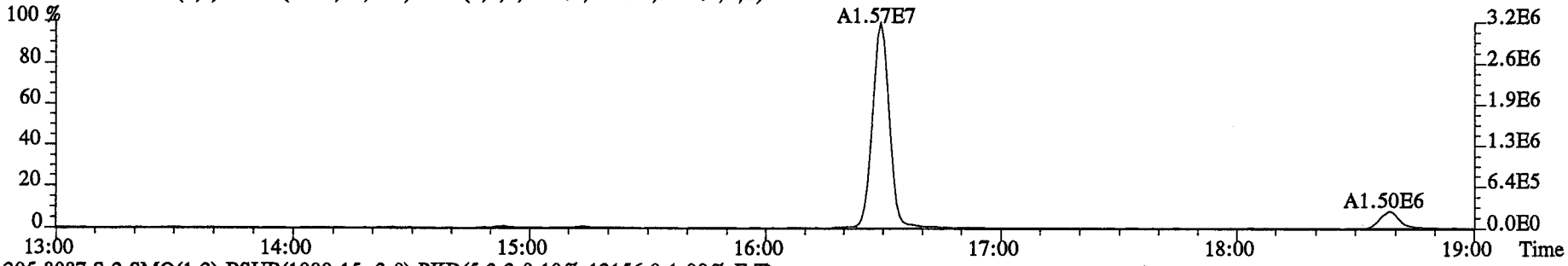


Run: 14DE10C5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2

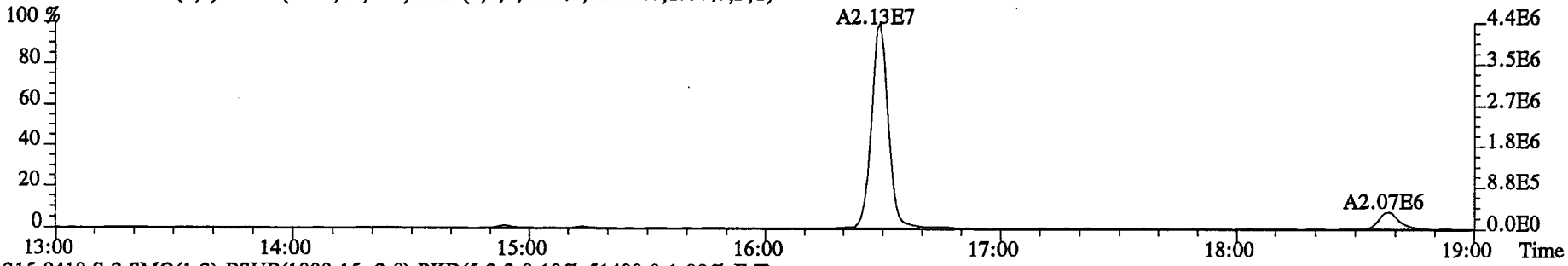
ST1214 :10DXN503 CS11214 KSS ST1214A :10DXN504 CS21214A ST1214B :10DXN505 CS31414B
ST1214C :10DXN506 CS41214C ST1214D :10DXN507 CS51214D

Name	Mean	S. D.	%RSD	14DE10B5D2 S3 RRF1	14DE10B5D2 S4 RRF2	14DE10B5D2 S5 RRF3	14DE10B5D2 S6 RRF4	14DE10B5D2 S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.023	0.106	5.26 %	1.92	2.07	2.18	2.00	1.94
2,3,7,8-TCDF	1.012	0.027	2.71 %	1.04	1.03	0.98	1.01	1.00
13C-2,3,7,8-TCDD	0.985	0.061	6.17 %	0.99	1.01	1.05	0.99	0.89
2,3,7,8-TCDD	1.562	0.050	3.20 %	1.59	1.61	1.54	1.59	1.48
37Cl-2,3,7,8-TCDD	1.774	0.040	2.28 %	1.76	1.84	1.76	1.79	1.73

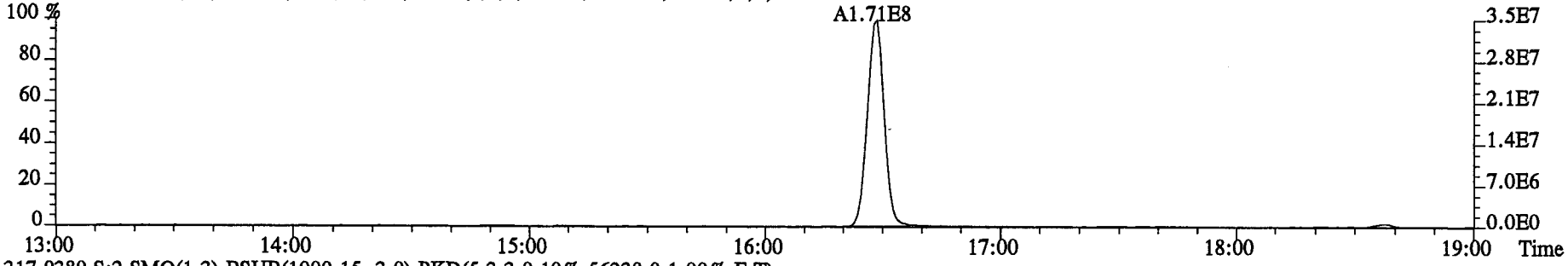
File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 21:33:00 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1214F :CS3 10DXN505 Exp:DB225RES
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8504.0,1.00%,F,T)



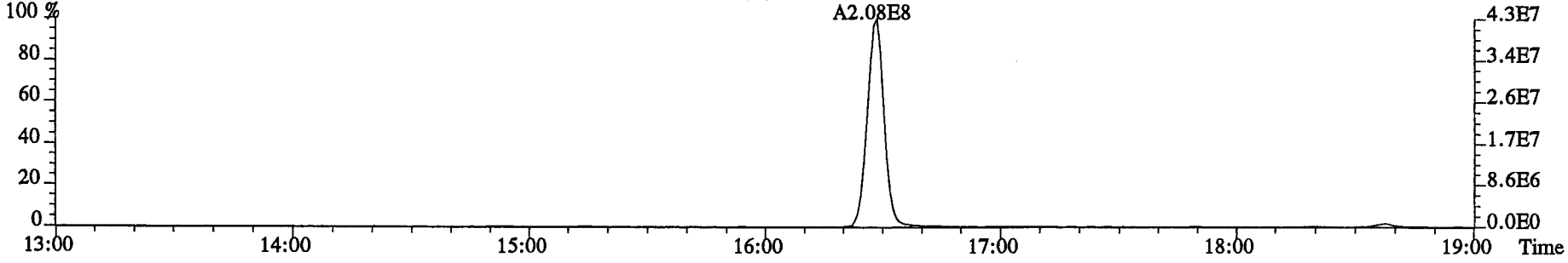
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12156.0,1.00%,F,T)



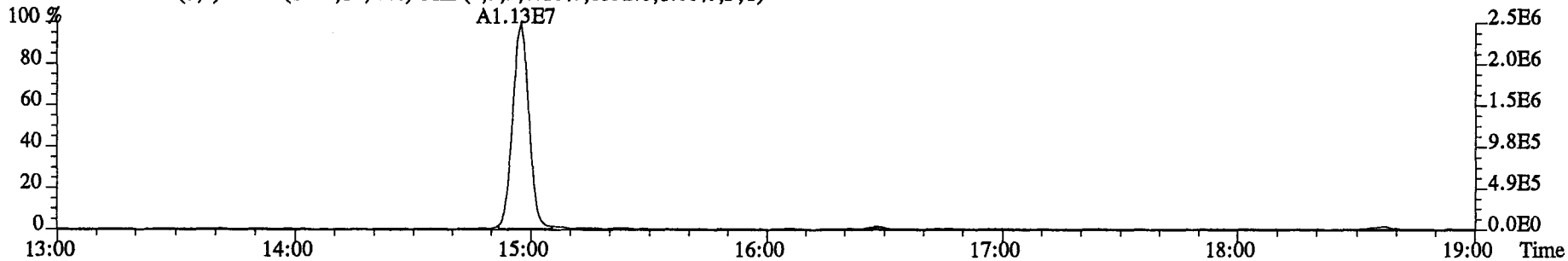
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,51400.0,1.00%,F,T)



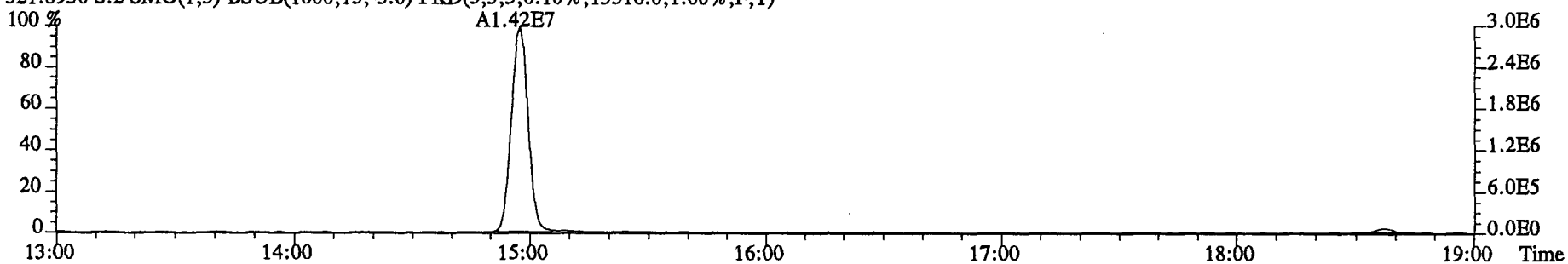
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56228.0,1.00%,F,T)



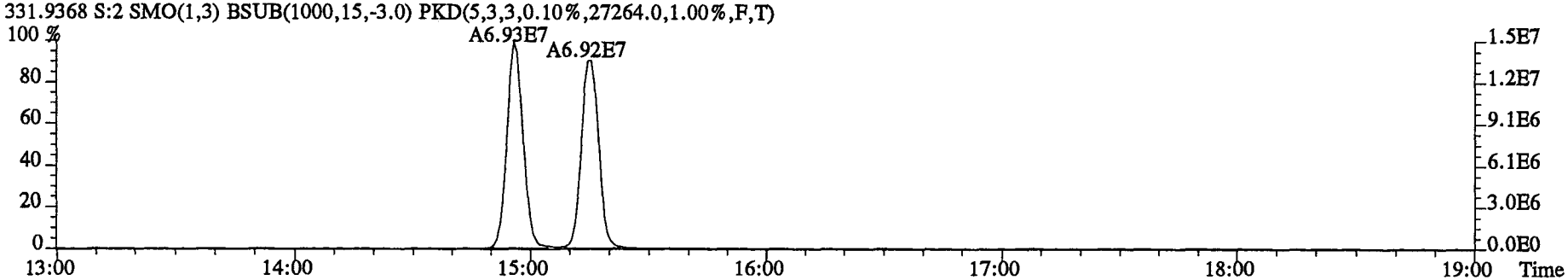
File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 21:33:00 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1214F :CS3 10DXN505 Exp:DB225RES
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8392.0,1.00%,F,T)



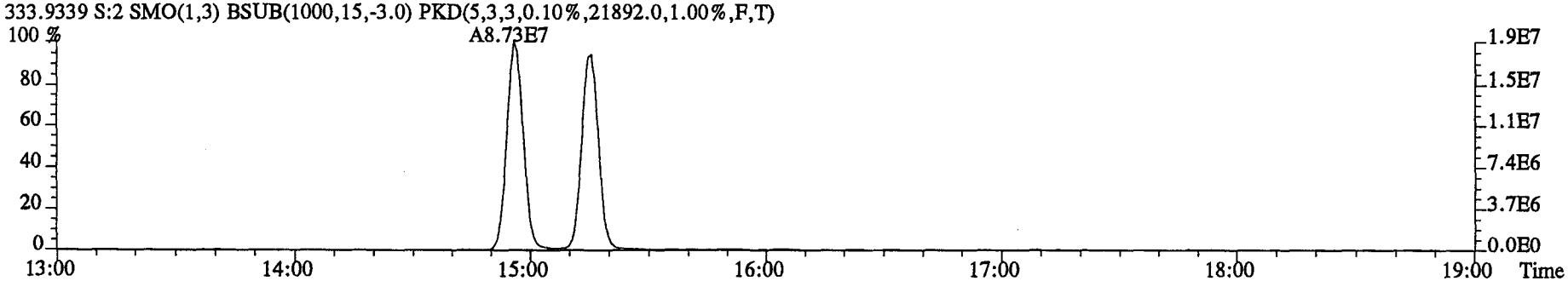
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13516.0,1.00%,F,T)



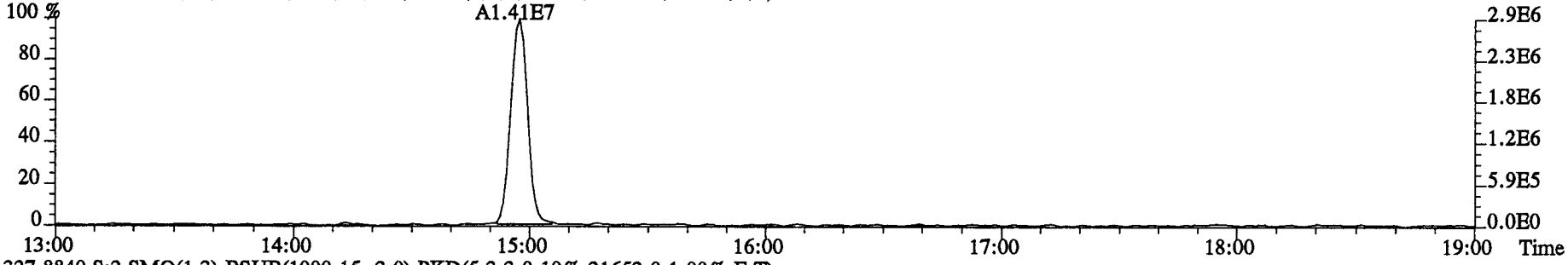
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27264.0,1.00%,F,T)



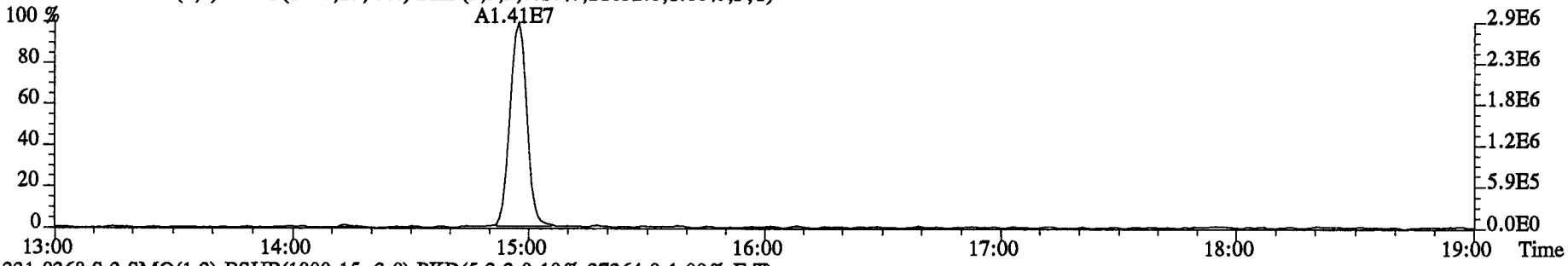
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21892.0,1.00%,F,T)



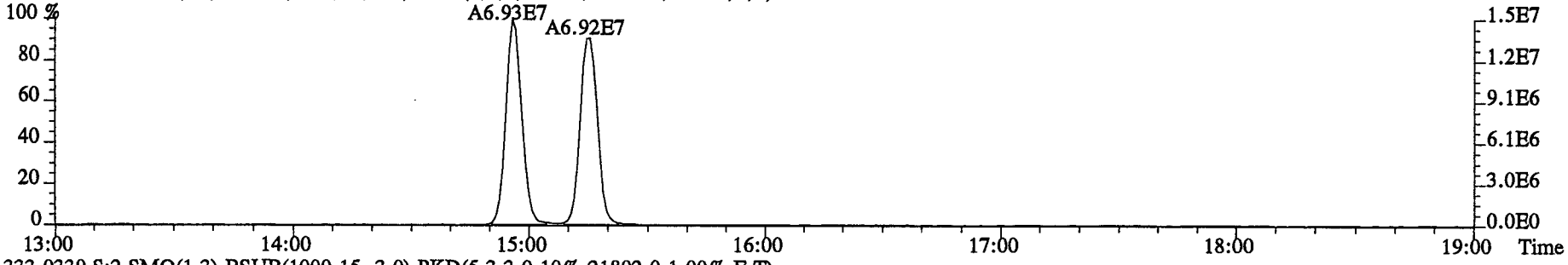
File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 21:33:00 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1214F :CS3 10DXN505 Exp:DB225RES
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21652.0,1.00%,F,T)



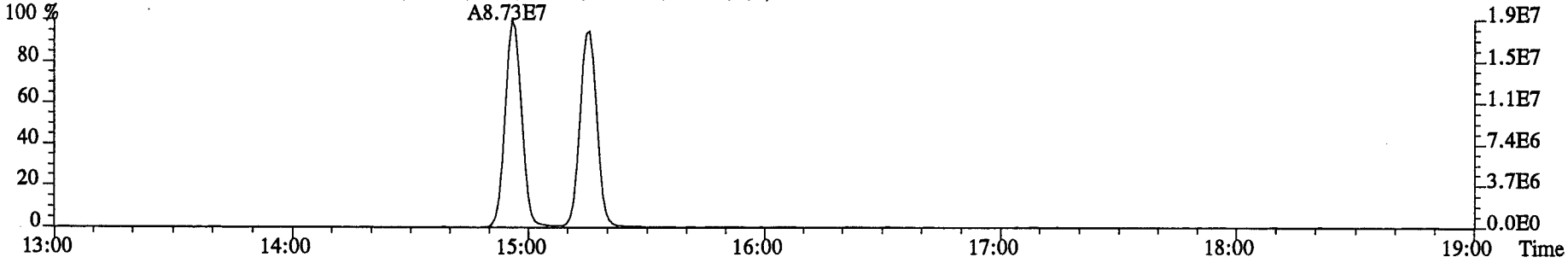
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21652.0,1.00%,F,T)



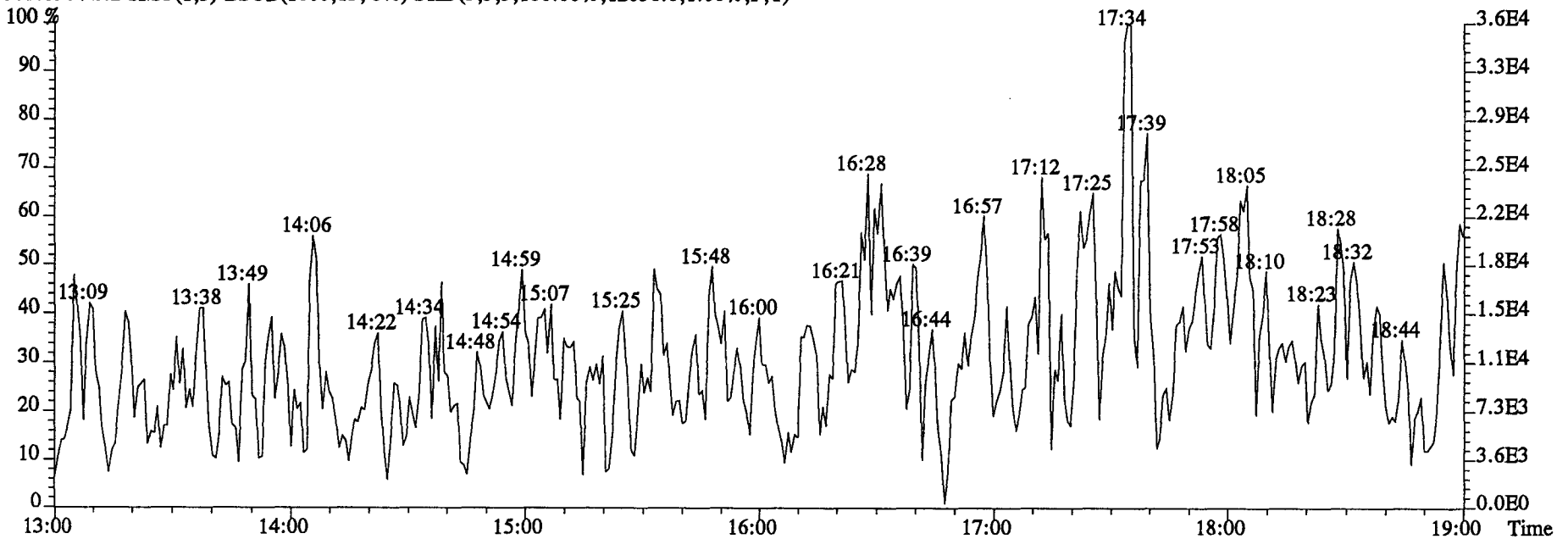
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27264.0,1.00%,F,T)



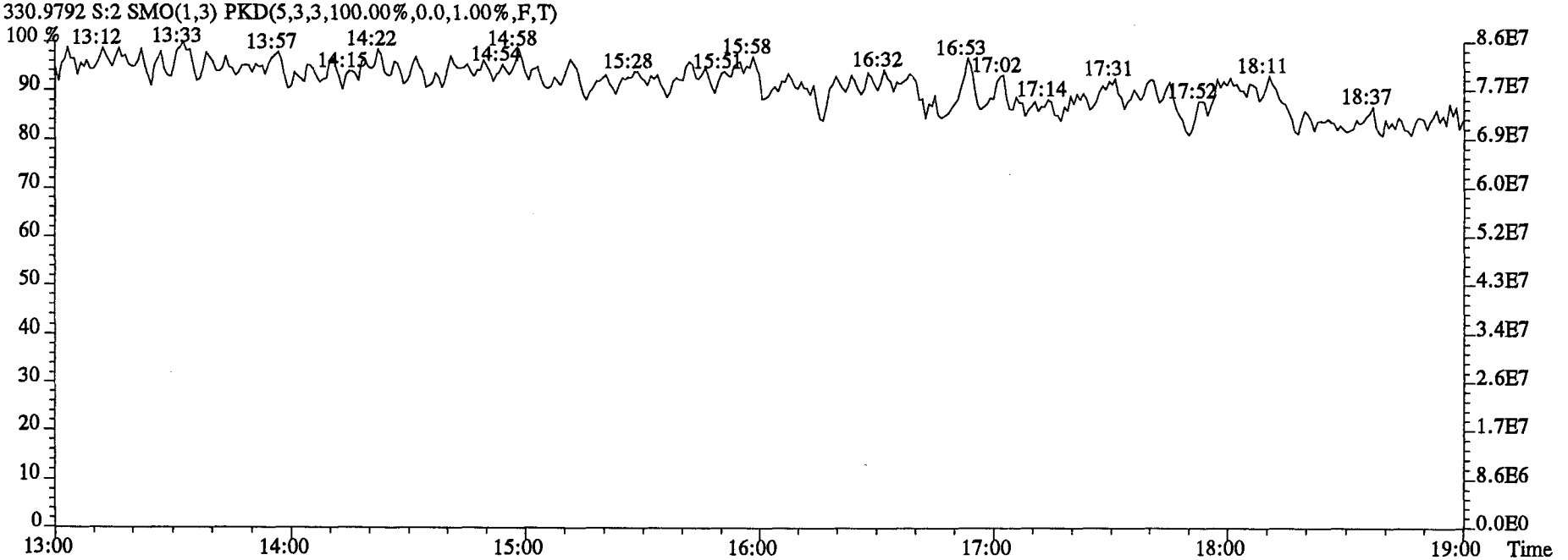
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21892.0,1.00%,F,T)



File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 21:33:00 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1214F :CS3 10DXN505 Exp:DB225RES
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,12856.0,1.00%,F,T)

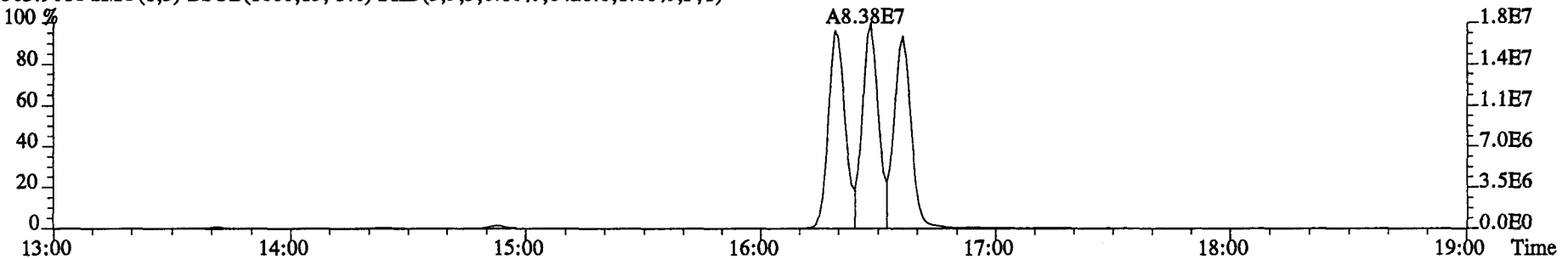


330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

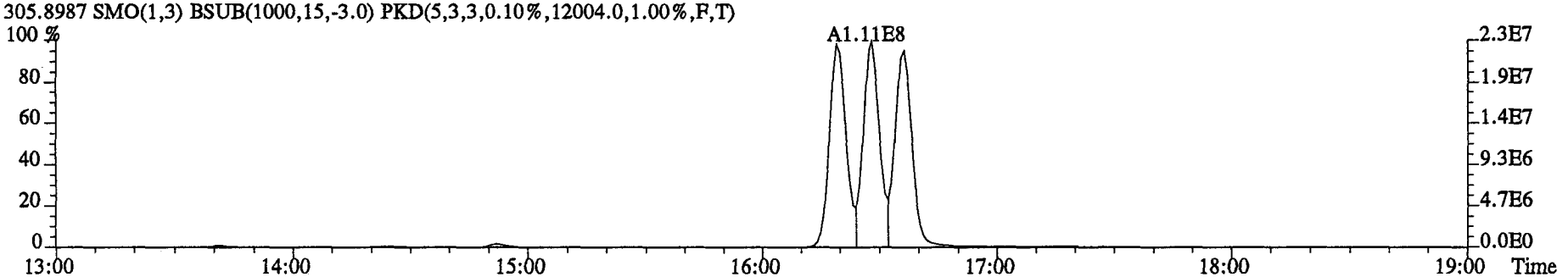


File:14DE10C5D2 #1-1241 Acq:14-DEC-2010 20:56:39 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214B :DB-225 CPSM 3732-11 Exp:DB225RES

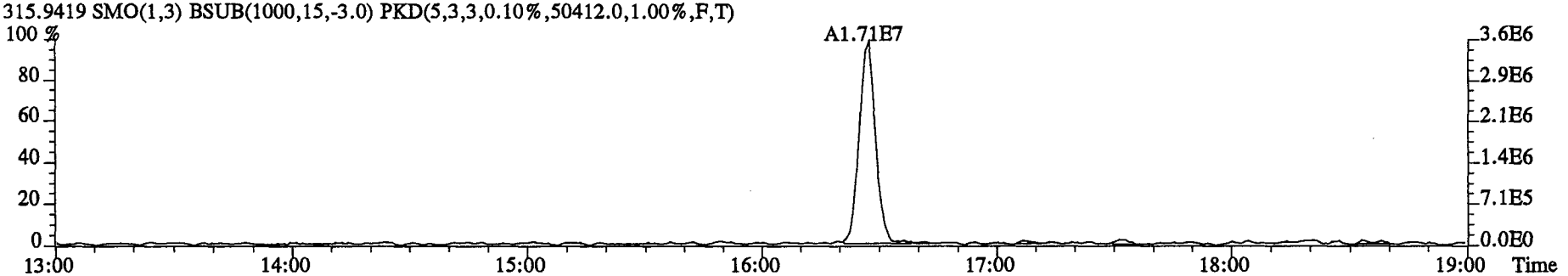
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8428.0,1.00%,F,T)



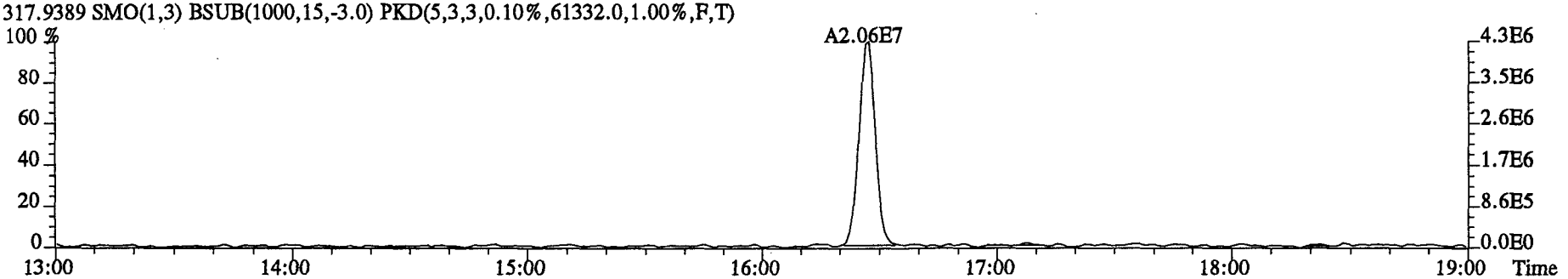
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12004.0,1.00%,F,T)



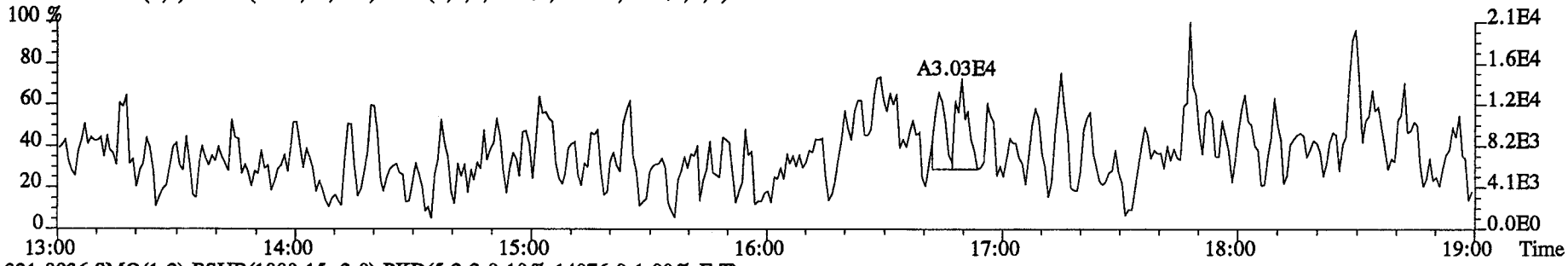
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50412.0,1.00%,F,T)



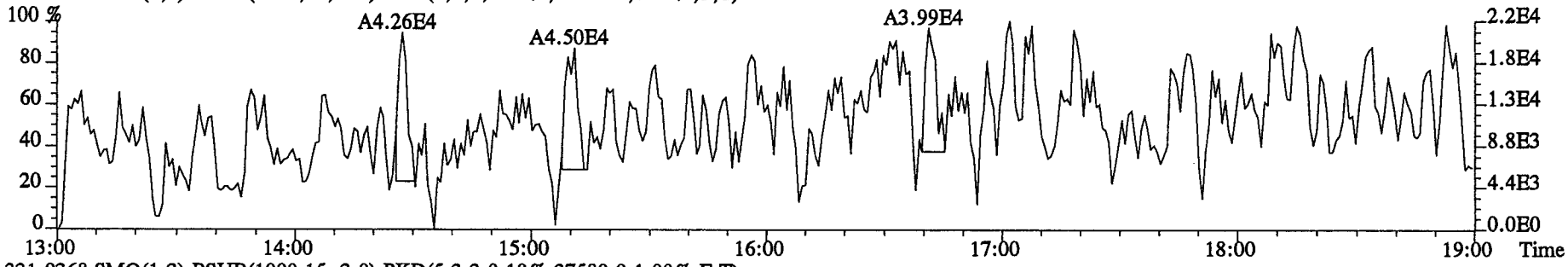
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61332.0,1.00%,F,T)



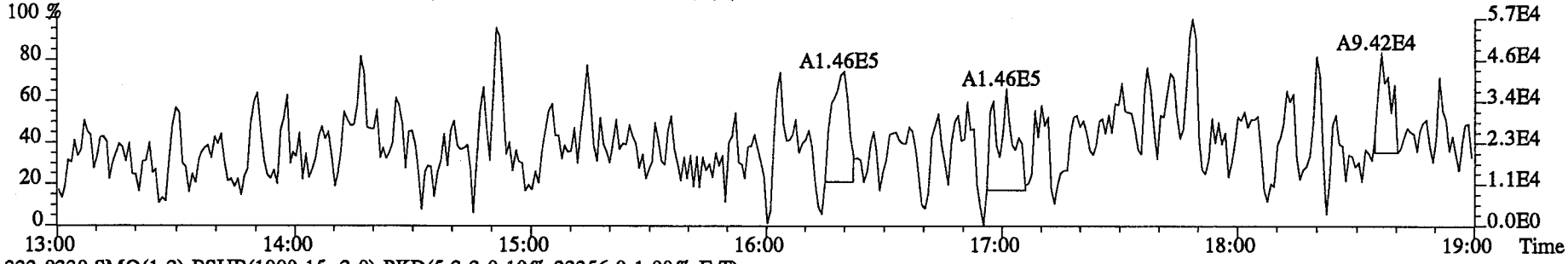
File:14DE10C5D2 #1-1241 Acq:14-DEC-2010 20:56:39 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214B :DB-225 CPSM 3732-11 Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8992.0,1.00%,F,T)



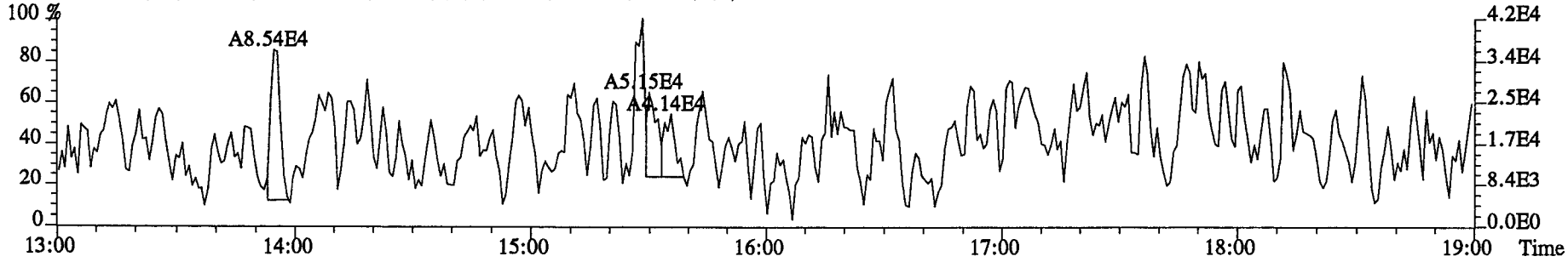
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14076.0,1.00%,F,T)



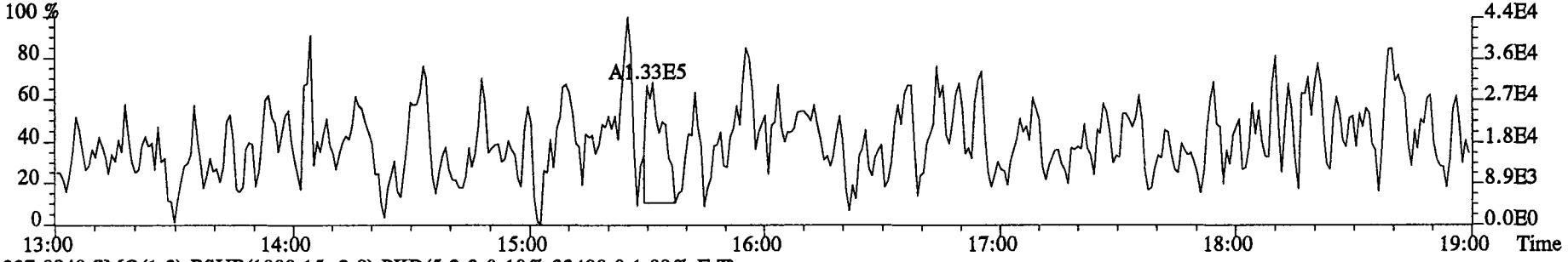
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27580.0,1.00%,F,T)



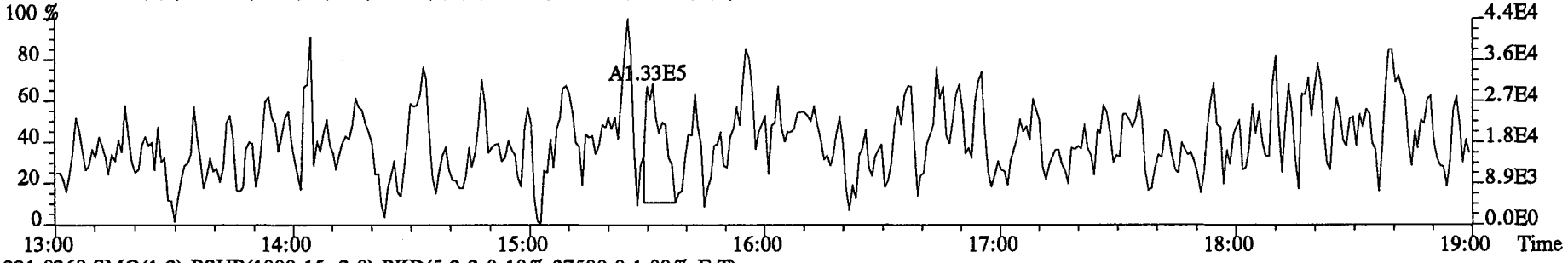
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22256.0,1.00%,F,T)



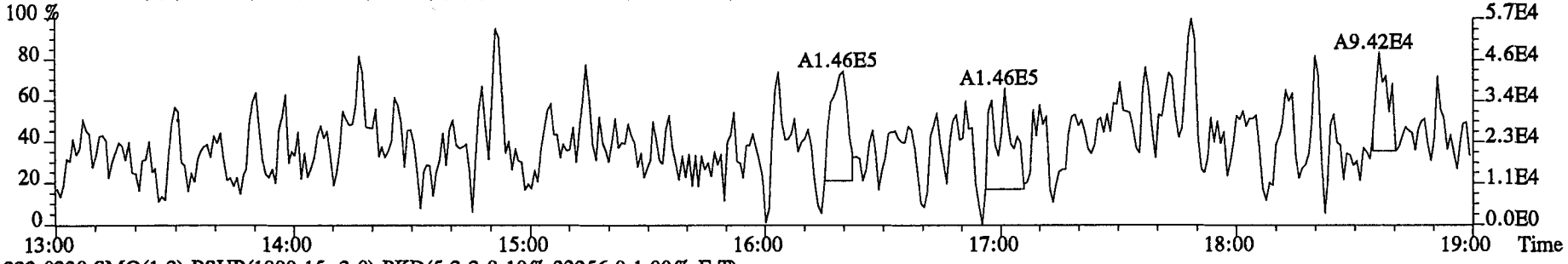
File:14DE10C5D2 #1-1241 Acq:14-DEC-2010 20:56:39 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214B :DB-225 CPSM 3732-11 Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22408.0,1.00%,F,T)



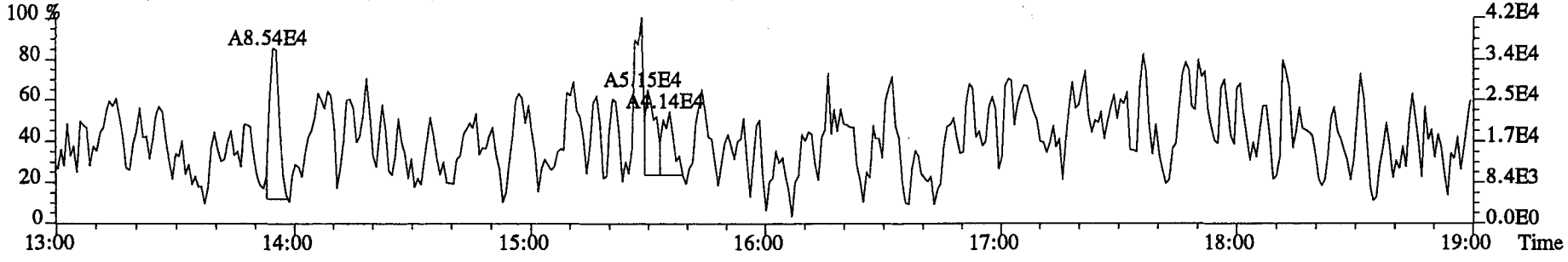
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22408.0,1.00%,F,T)



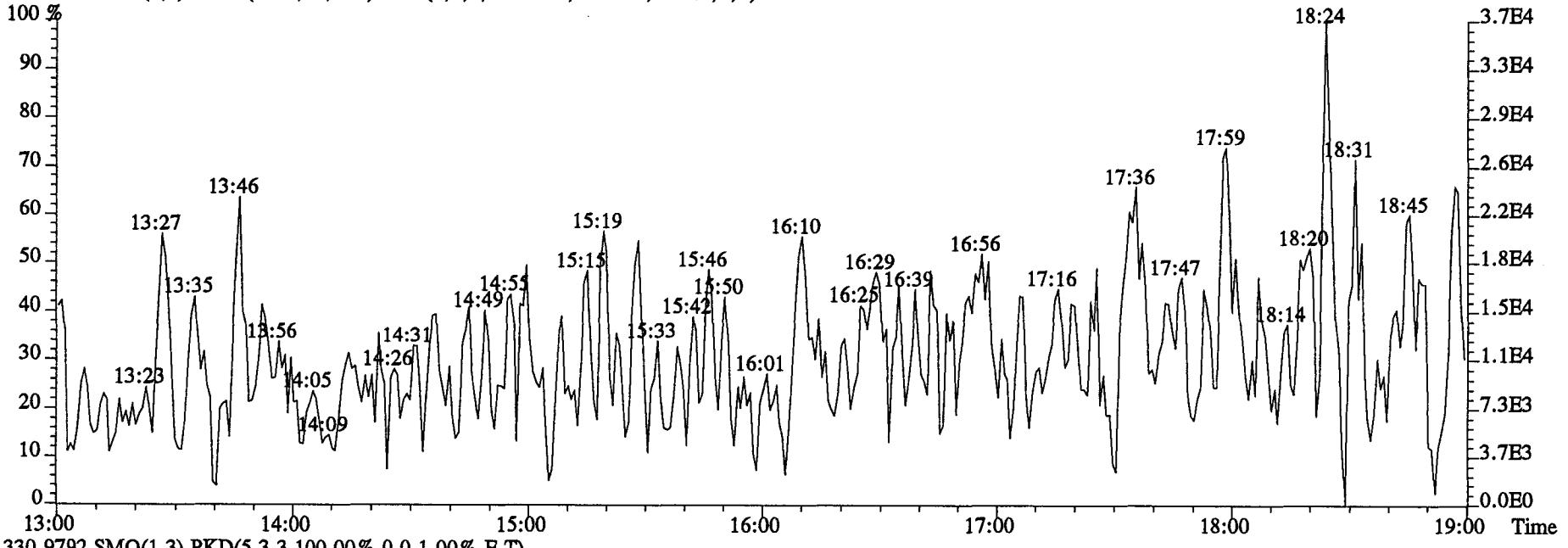
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27580.0,1.00%,F,T)



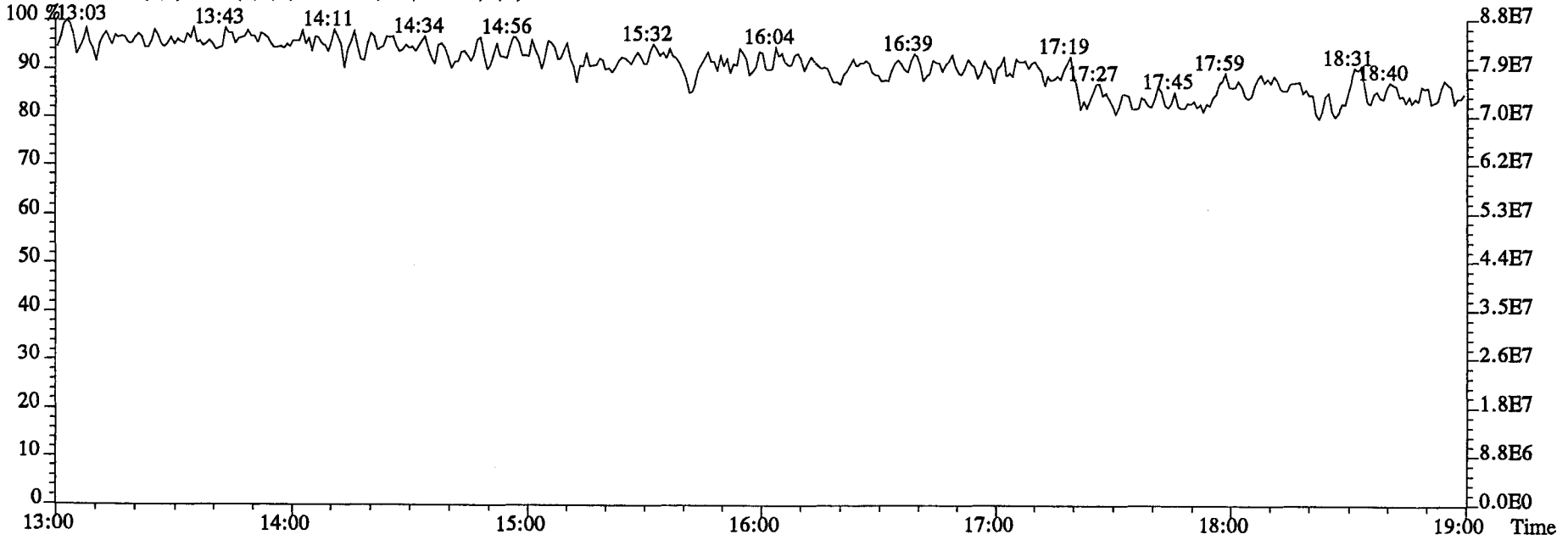
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22256.0,1.00%,F,T)

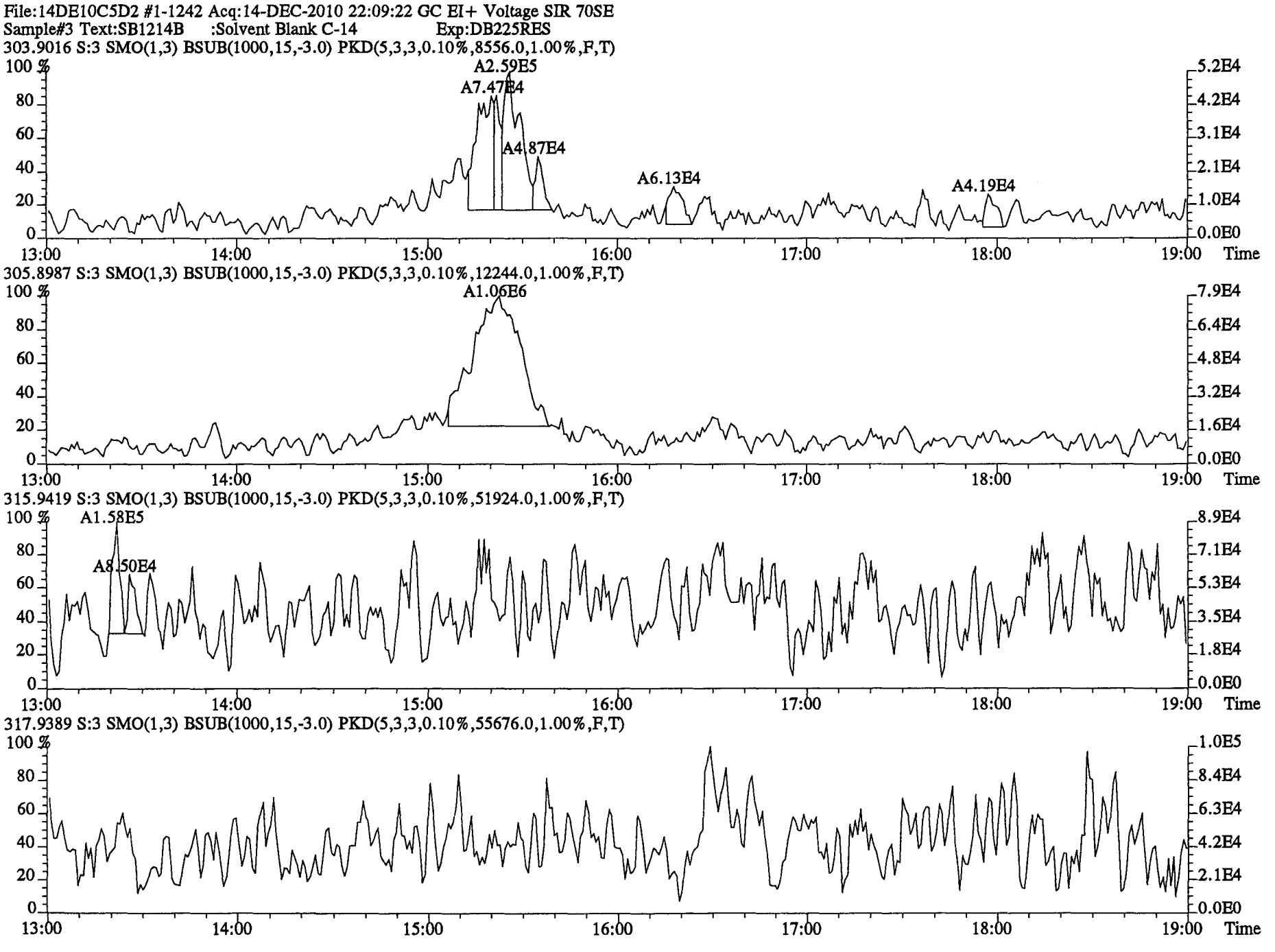


File:14DE10C5D2 #1-1241 Acq:14-DEC-2010 20:56:39 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214B :DB-225 CPSM 3732-11 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13208.0,1.00%,F,T)



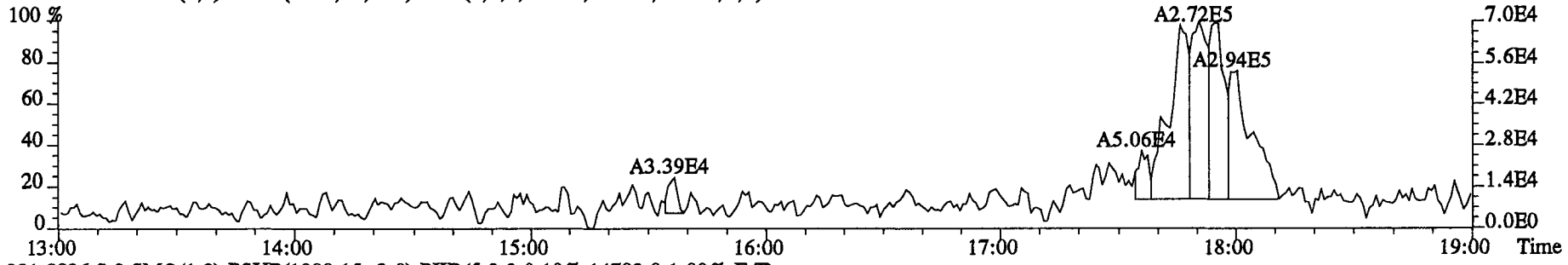
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



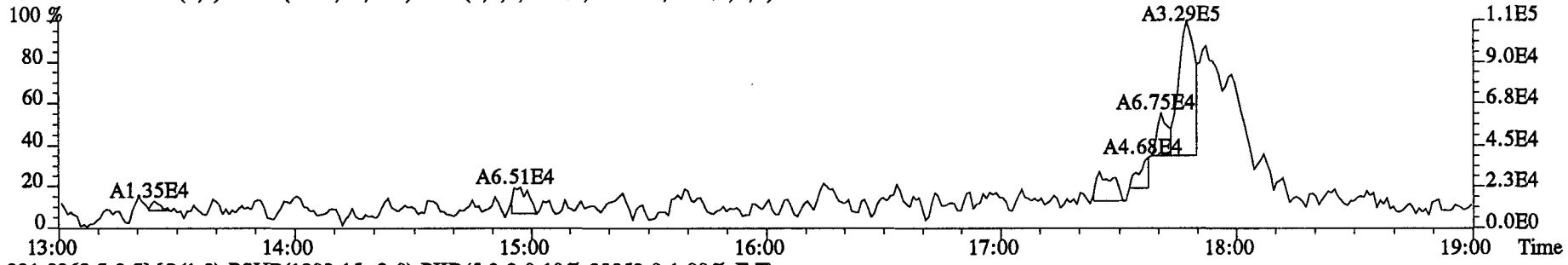

File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 22:09:22 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1214B :Solvent Blank C-14 Exp:DB225RES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8556.0,1.00%,F,T)
A2.59E5
A7.47E4
A4.87E4
A6.13E4
A4.19E4
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12244.0,1.00%,F,T)
A1.06E6
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,51924.0,1.00%,F,T)
A1.58E5
A8.50E4
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,55676.0,1.00%,F,T)
100 %
Time
13:00
14:00
15:00
16:00
17:00
18:00
19:00

File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 22:09:22 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1214B :Solvent Blank C-14 Exp:DB225RES

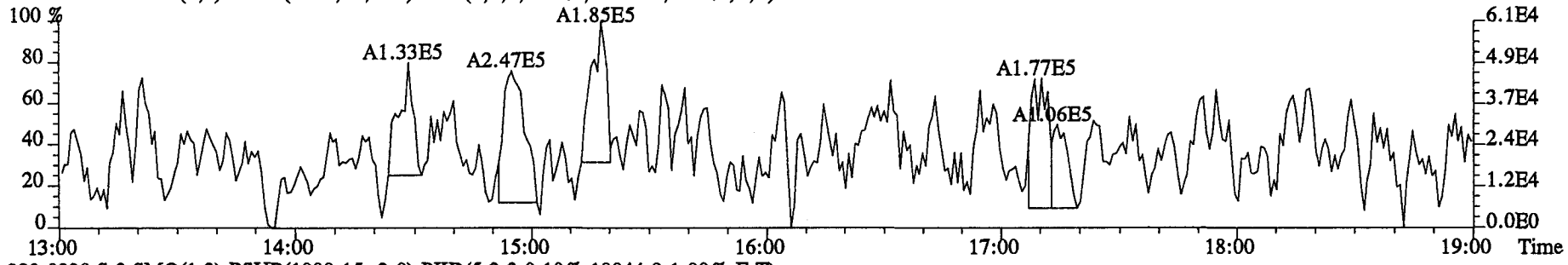
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9444.0,1.00%,F,T)



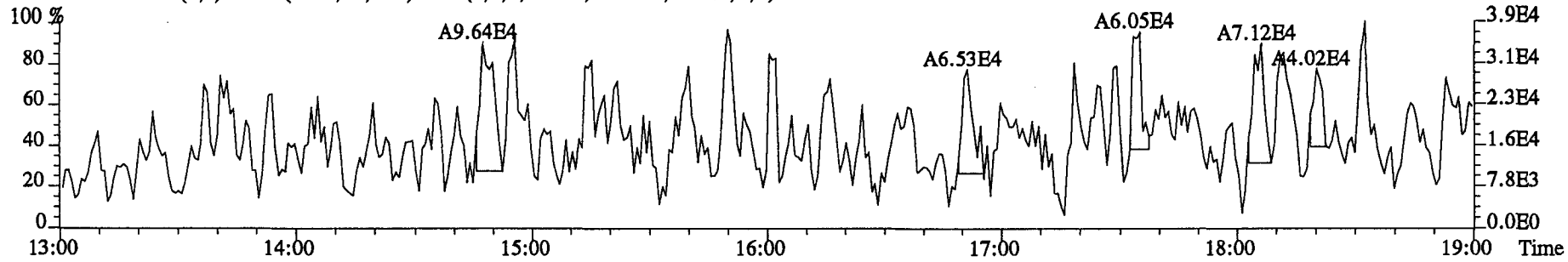
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14792.0,1.00%,F,T)



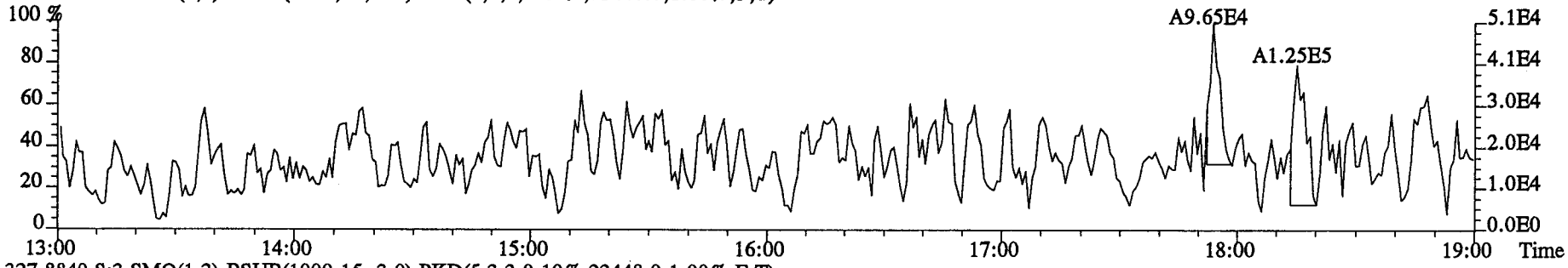
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28952.0,1.00%,F,T)



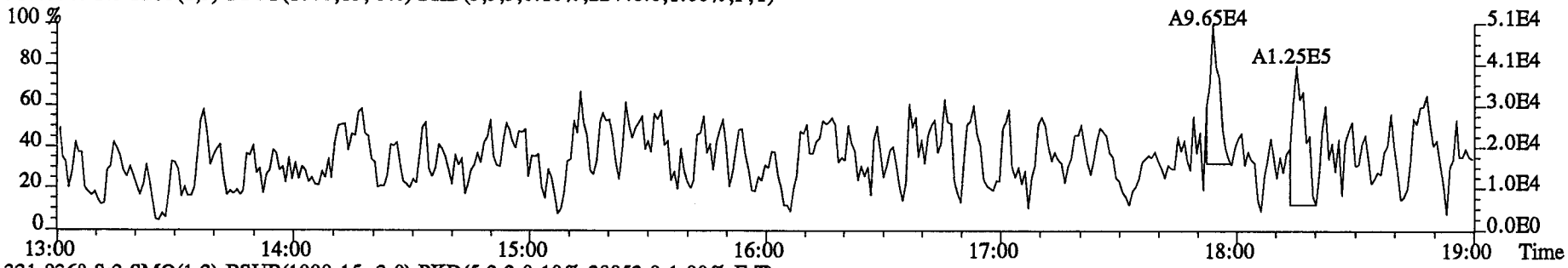
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18944.0,1.00%,F,T)



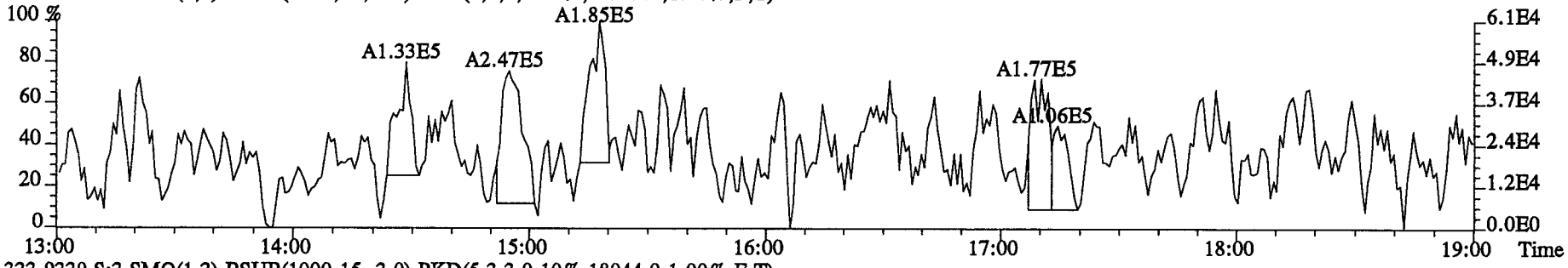
File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 22:09:22 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1214B :Solvent Blank C-14 Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22448.0,1.00%,F,T)



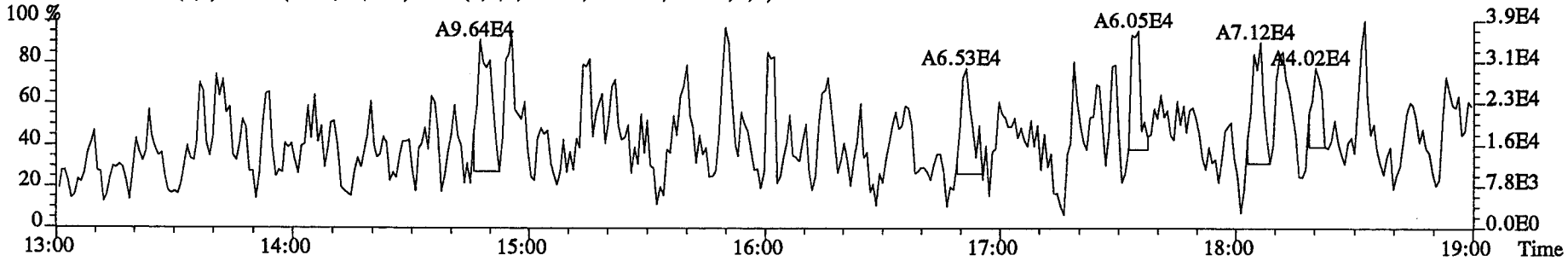
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22448.0,1.00%,F,T)



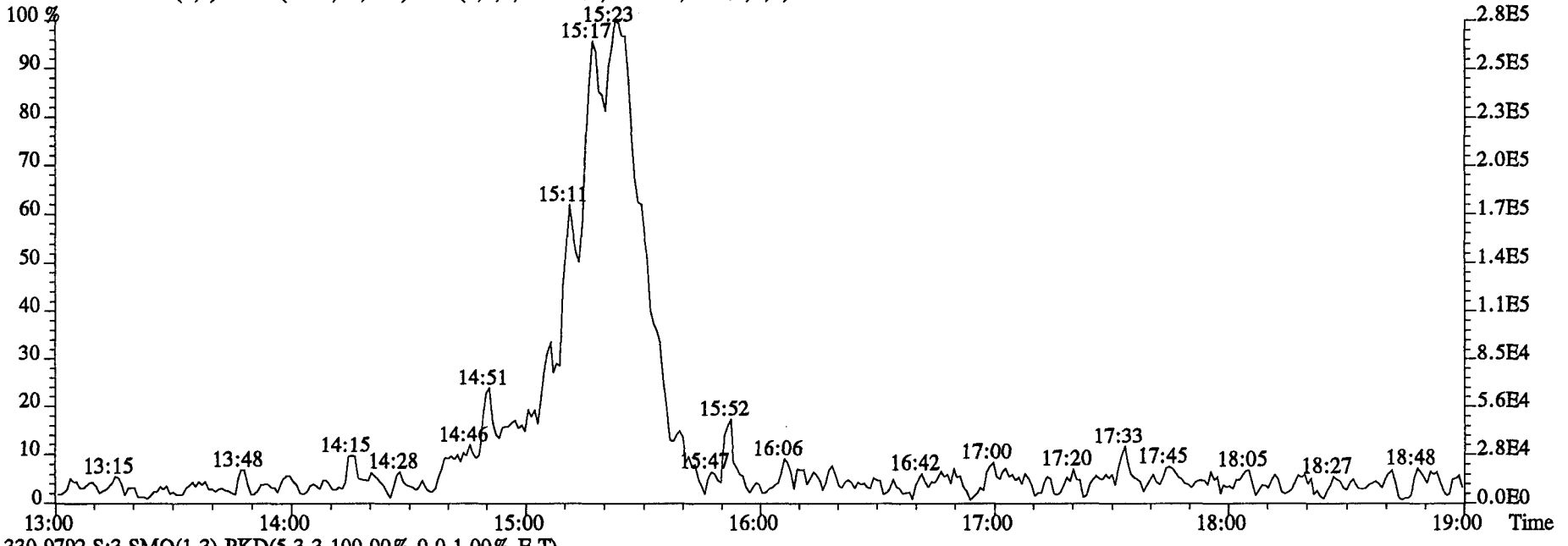
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28952.0,1.00%,F,T)



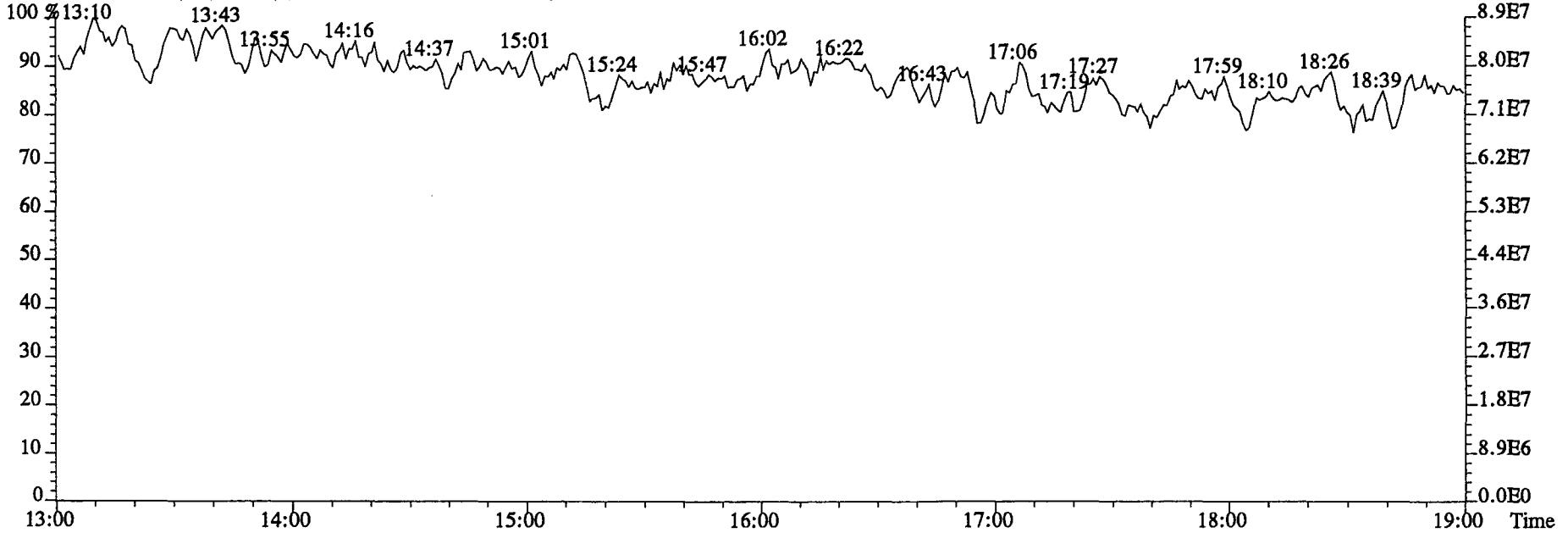
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18944.0,1.00%,F,T)



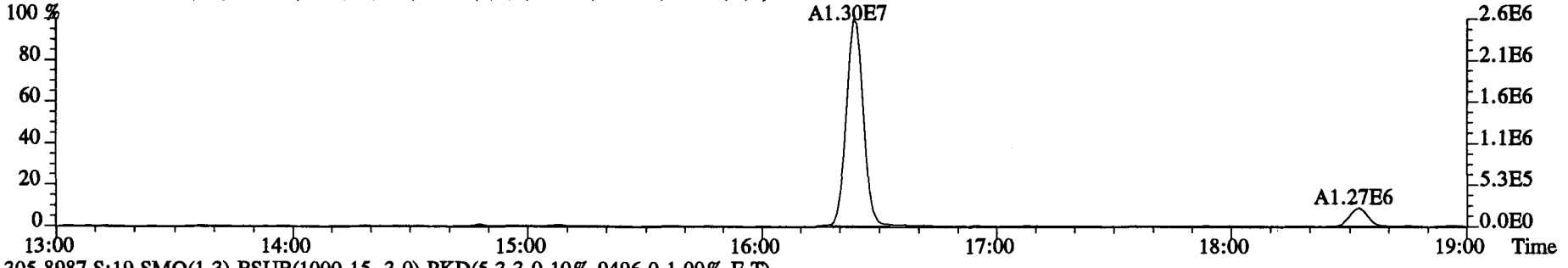
File:14DE10C5D2 #1-1242 Acq:14-DEC-2010 22:09:22 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1214B :Solvent Blank C-14 Exp:DB225RES
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,14176.0,1.00%,F,T)



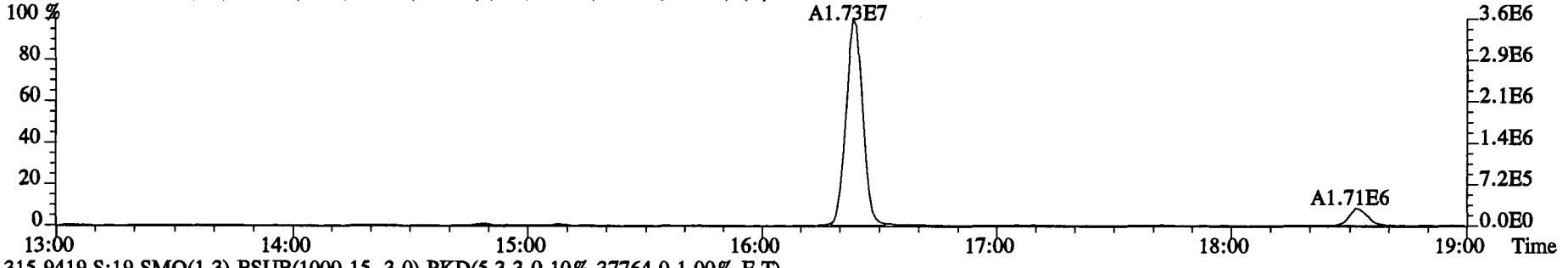
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



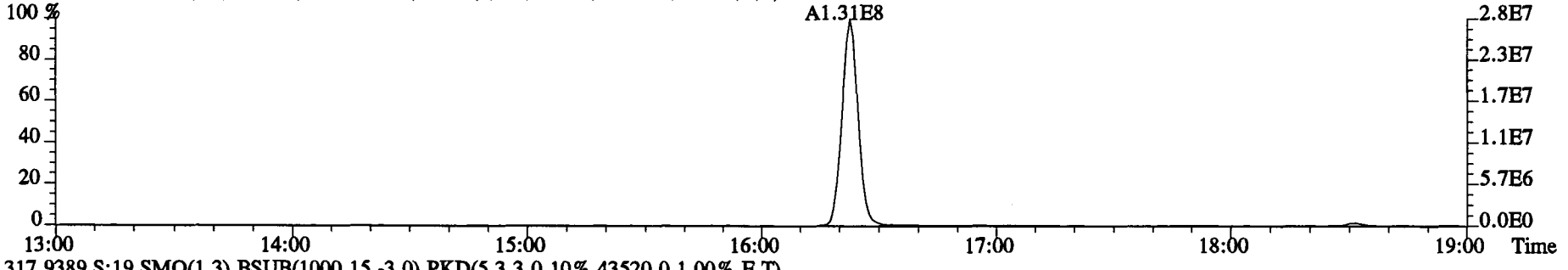
File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 07:51:03 GC EI+ Voltage SIR 70SE
Sample#19 Text:ST1214G :CS3 10DXN505 Exp:DB225RES
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6852.0,1.00%,F,T)



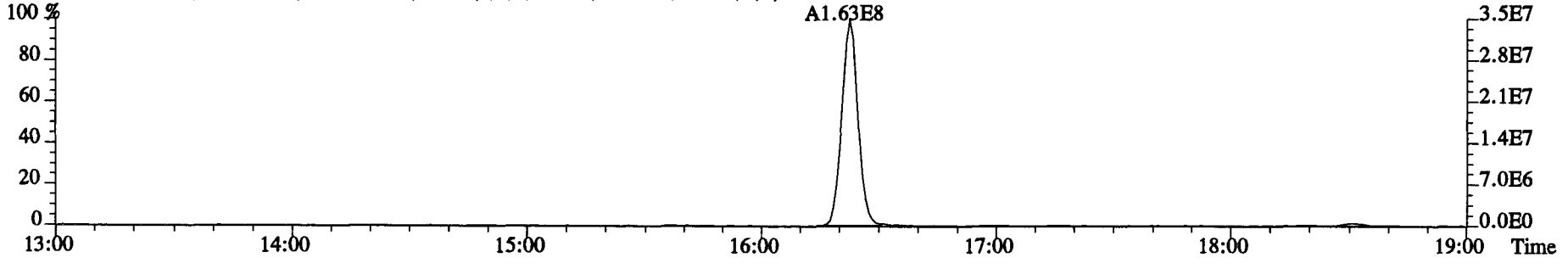
305.8987 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9496.0,1.00%,F,T)



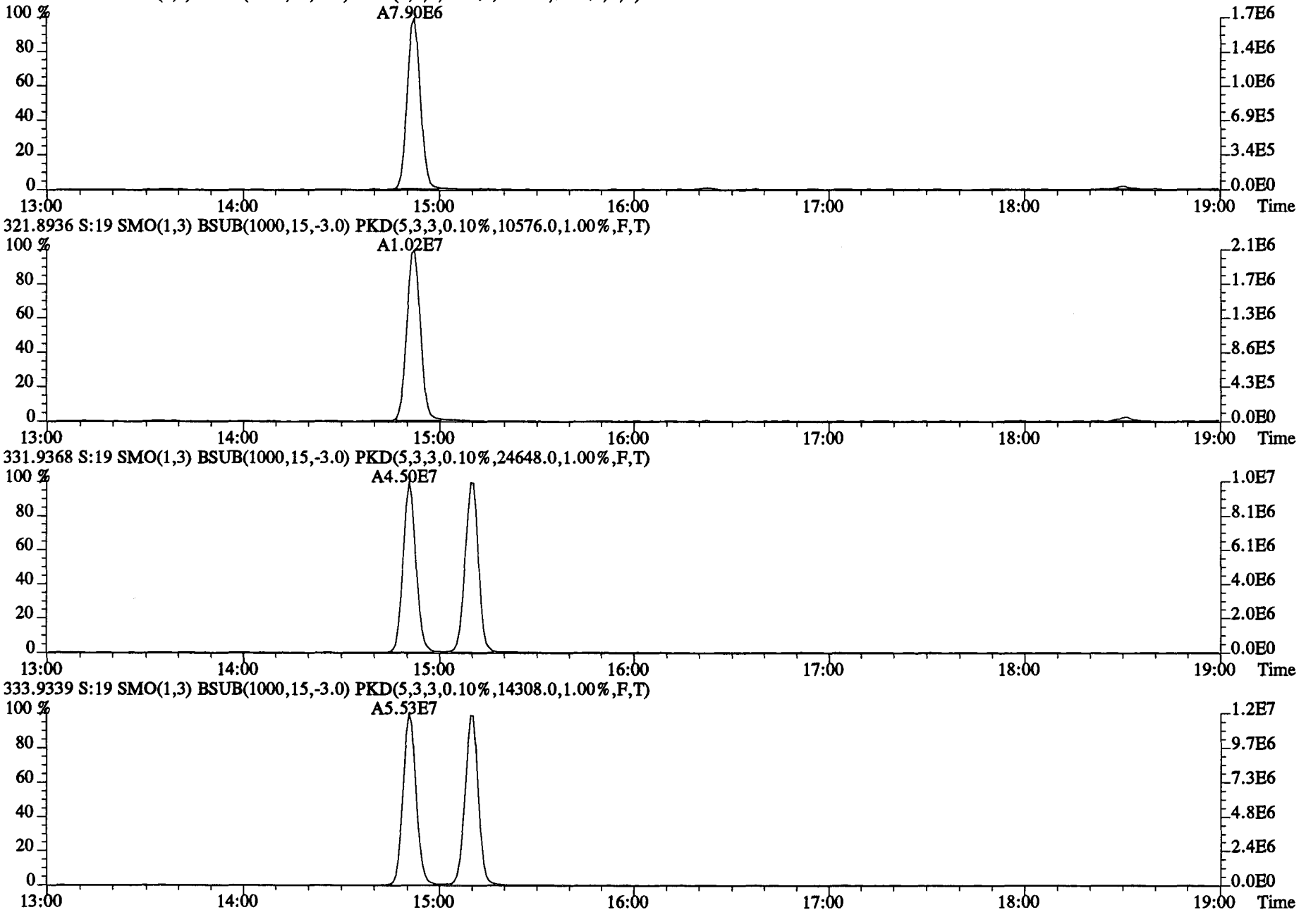
315.9419 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37764.0,1.00%,F,T)



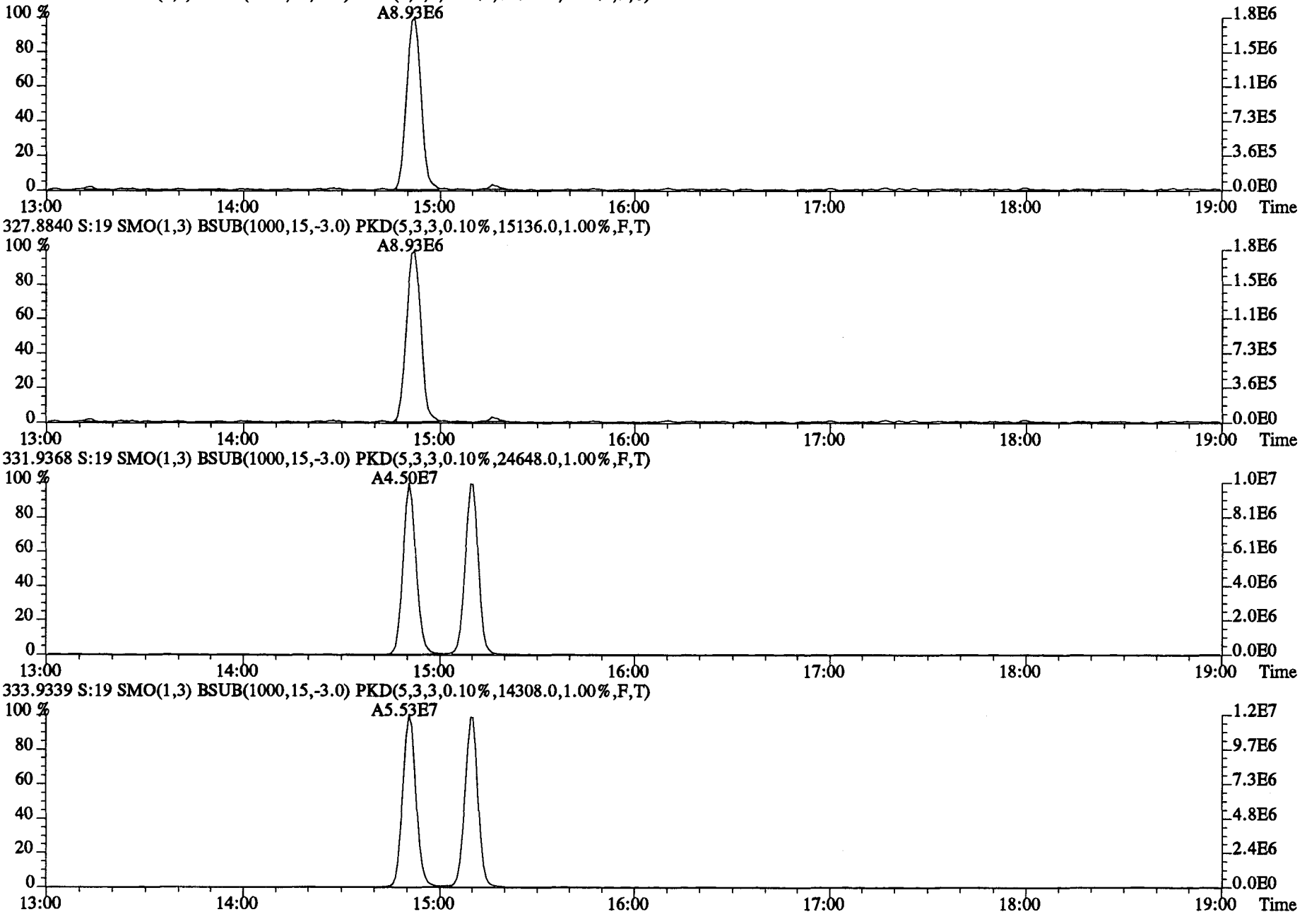
317.9389 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43520.0,1.00%,F,T)



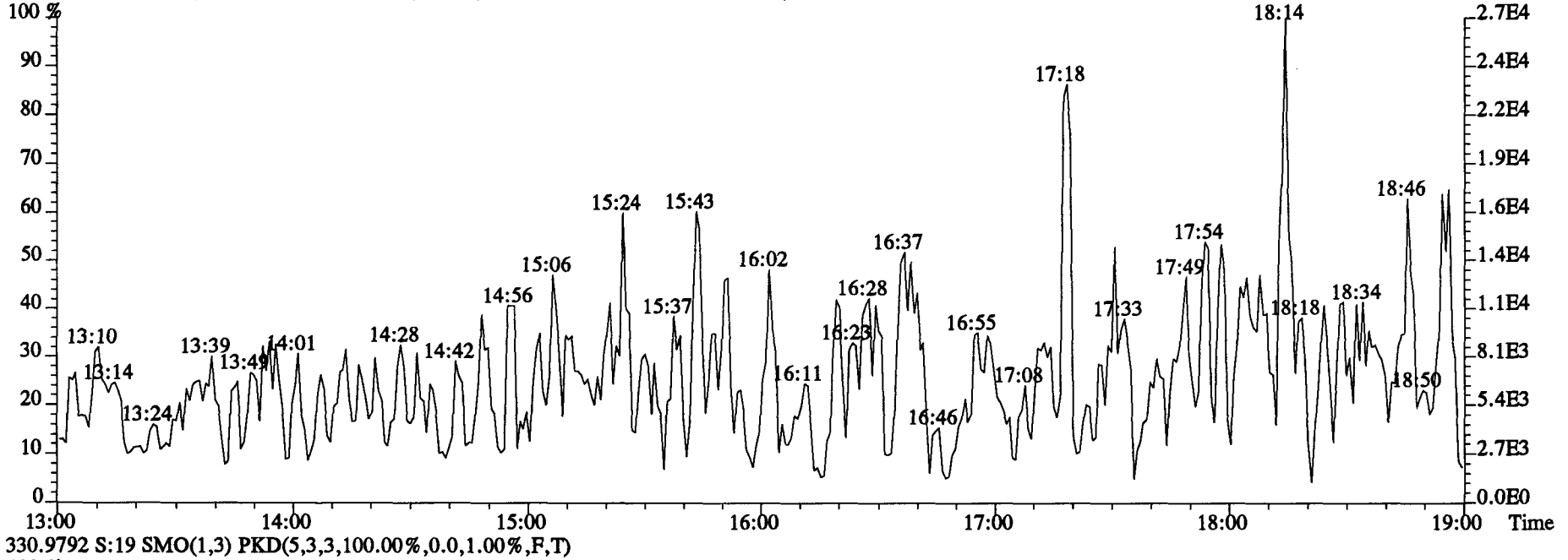
File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 07:51:03 GC EI+ Voltage SIR 70SE
Sample#19 Text:ST1214G :CS3 10DXN505 Exp:DB225RES



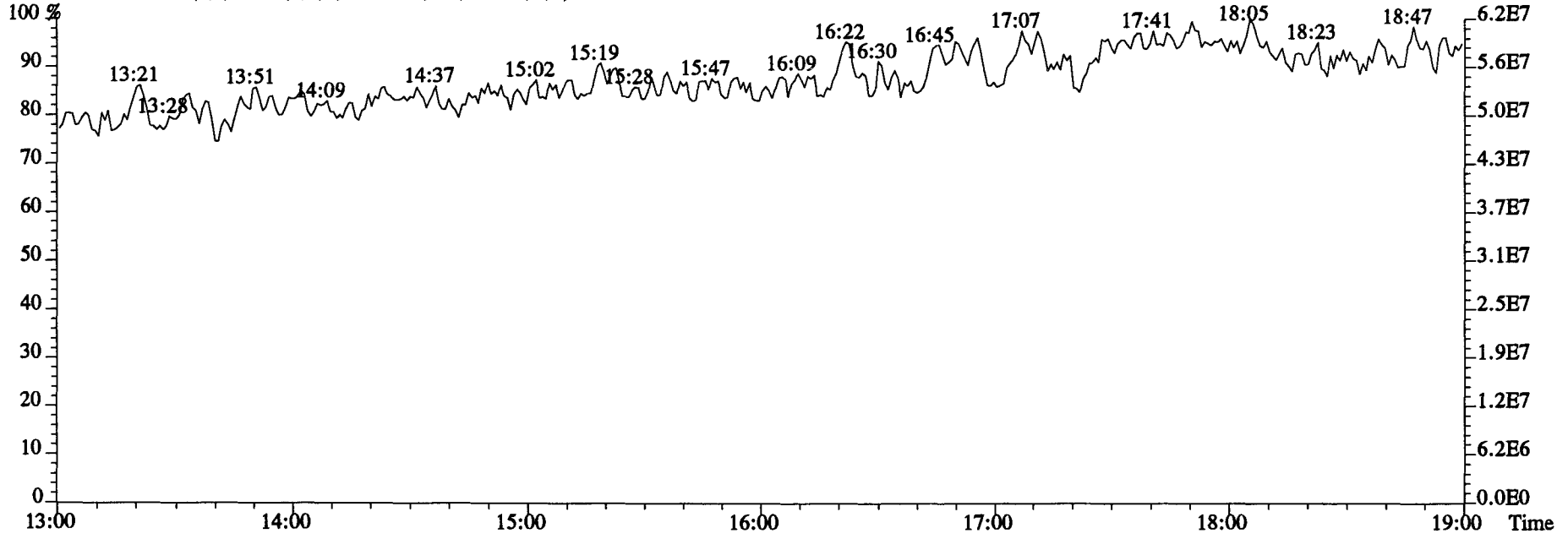
File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 07:51:03 GC EI+ Voltage SIR 70SE
Sample#19 Text:ST1214G :CS3 10DXN505 Exp:DB225RES



File:14DE10C5D2 #1-1241 Acq:15-DEC-2010 07:51:03 GC EI+ Voltage SIR 70SE
Sample#19 Text:ST1214G :CS3 10DXN505 Exp:DB225RES
375.8364 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,7748.0,1.00%,F,T)



330.9792 S:19 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID ICA092910100 5 (8290, 1613, TETRAS) (23, 0023A) (TO9)

Method ID 8290, 1613B

Date Scanned 10-1-10

Column ID DB5

Instrument ID 10D5

STD ID's STO929, A, B, C, D

STD Solution 100XNC (342, 335, 426, 337, 339)

GC Program Dioxin

Multiplier Setting 350V

Analyzed By JRB

Date Analyzed 9/29/10

Prepared By JRB

Date Prepared 9/30/10

Reviewed By M.G

Date Reviewed 9/30/10

	METHOD	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?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

CS3 RTs : 13C-1,2,3,4-TCDD = 19.61 ; 13C-1,2,3,7,8,9-HxCDD = 33.26

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:27:13 Pacific Standard Time
Printed: Monday, December 13, 2010 11:27:49 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: 13 Dec 2010 11:27:13

#	Name	RRF Mean	RRF SD	RRF %Rel SD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.31203	0.02602	1.98292
4	2,3,7,8-TCDF	0.99766	0.05398	5.41067
5	Total TCDFs	0.99766	0.05398	5.41067
6				
7	13C-2,3,7,8-TCDD	0.90938	0.03350	3.68426
8	2,3,7,8-TCDD	1.03464	0.03788	3.66087
9	Total TCDDs	1.03464	0.03788	3.66088
10				
11	37CL-2,3,7,8-TCDD	0.65529	0.04007	6.11558
12				
13	13C-1,2,3,7,8-PeCDF	1.02378	0.03366	3.28821
14	1,2,3,7,8-PeCDF	1.09163	0.07636	6.99532
15	2,3,4,7,8-PeCDF	1.06412	0.07093	6.66572
16	Total F2 PeCDFs	1.07787	0.07357	6.82587
17	Total F1 PeCDFs	1.07787	0.07357	6.82587
18				
19	13C-1,2,3,7,8-PeCDD	0.73445	0.03188	4.34090
20	1,2,3,7,8-PeCDD	0.96030	0.07379	7.68439
21	Total PeCDDs	0.96030	0.07379	7.68439
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	1.04941	0.04078	3.88633
26	1,2,3,4,7,8-HxCDF	1.31260	0.08060	6.14026
27	1,2,3,6,7,8-HxCDF	1.43801	0.08073	5.61377
28	2,3,4,6,7,8-HxCDF	1.35233	0.06680	4.93996
29	1,2,3,7,8,9-HxCDF	1.19752	0.07420	6.19643
30	Total HxCDFs	1.32511	0.07456	5.62649
31				
32	13C-1,2,3,6,7,8-HxCDD	0.90452	0.04739	5.23895
33	1,2,3,4,7,8-HxCDD	0.98150	0.11886	12.11042
34	1,2,3,6,7,8-HxCDD	1.09425	0.09074	8.29235
35	1,2,3,7,8,9-HxCDD	1.05784	0.11025	10.42210
36	Total HxCDDs	1.04453	0.10589	10.13757
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.95391	0.04593	4.81530
39	1,2,3,4,6,7,8-HpCDF	1.46280	0.08159	5.57799
40	1,2,3,4,7,8,9-HpCDF	1.23081	0.07706	6.26095
41	Total HpCDFs	1.34680	0.07868	5.84221
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.84836	0.04441	5.23520
44	1,2,3,4,6,7,8-HpCDD	1.05453	0.09764	9.25898
45	Total HpCDDs	1.05453	0.09764	9.25898
46				
47	13C-OCDD	0.67464	0.02285	3.38633

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:27:13 Pacific Standard Time
Printed: Monday, December 13, 2010 11:27:49 Pacific Standard Time

#	Name	RRF Mean	RRF SD	RRF %Rel SD
48	OCDF	1.48610	0.14046	9.45134
49	OCDD	1.14618	0.09332	8.14138
50				
51				
52	Function 1 PFK			
53	Function 2 PFK			
54	Function 3 PFK			
55	Function 4 PFK			
56	Function 5 PFK			
57	TCDF PCDPE			
58	F1 PeCDF PCDPE			
59	F2 PeCDF PCDPE			
60	HXCDF PCDPE			
61	HPCDF PCDPE			
62	OCDF PCDPE			

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:27:13 Pacific Standard Time
Printed: Monday, December 13, 2010 11:27:29 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: 13 Dec 2010 11:27:13

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

#	Name	Trace	RT	Std. Conc.	Response	RRF	Ratio (Act)	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.61	100.0	609693	1.00000	0.838	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.02	100.0	794593	1.30327	0.769	NO	
4	2,3,7,8-TCDF	303.9016	19.04	0.5	3679	0.92612	0.849	NO	13-Dec-10
5	Total TCDFs	303.9016		0.5					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.82	100.0	558616	0.91623	0.843	NO	
8	2,3,7,8-TCDD	319.8965	19.85	0.5	2866	1.02618	0.804	NO	
9	Total TCDDs	319.8965		0.5					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.88	0.5	1953	0.69937			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.86	100.0	641135	1.05157	1.586	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.87	2.5	15974	0.99658	1.501	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.43	2.5	15749	0.98258	1.674	NO	
16	Total F2 PeCDFs	339.8597		2.5					
17	Total F1 PeCDFs	339.8597		2.5					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.24	100.0	468088	0.76774	1.587	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.29	2.5	9964	0.85145	1.510	NO	
21	Total PeCDDs	355.8546		2.5					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.26	100.0	476418	1.00000	1.179	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.11	100.0	499884	1.04926	0.520	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.13	2.5	14925	1.19431	1.279	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.25	2.5	16615	1.32954	1.196	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.79	2.5	15750	1.26030	1.301	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.44	2.5	14040	1.12345	1.299	NO	
30	Total HxCDFs	373.8208		2.5					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	33.00	100.0	455626	0.95636	1.275	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.93	2.5	9211	0.80862	1.251	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.01	2.5	11126	0.97675	1.268	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.27	2.5	10487	0.92066	1.315	NO	
36	Total HxCDDs	389.8157		2.5					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.79	100.0	455314	0.95570	0.456	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.80	2.5	15770	1.38545	1.052	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.95	2.5	13045	1.14604	1.025	NO	
41	Total HpCDFs	407.7818		2.5					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.62	100.0	415880	0.87293	0.990	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.63	2.5	9485	0.91228	1.134	NO	
45	Total HpCDDs	423.7766		2.5					
46				1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:27:13 Pacific Standard Time
Printed: Monday, December 13, 2010 11:27:29 Pacific Standard Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio Act	Ratio Flag	Mod Date
47	13C-OCDD	469.7779	38.18	200.0	668582	0.70168	0.873	NO	
48	OCDF	441.7428	38.30	5.0	21273	1.27274	0.989	NO	
49	OCDD	457.7377	38.19	5.0	16717	1.00015	0.894	NO	
50				1.0					
51				1.0					
52	Function 1 PFK	330.97920		1.0					
53	Function 2 PFK	342.97920		1.0					
54	Function 3 PFK	380.97600		1.0					
55	Function 4 PFK	430.97290		1.0					
56	Function 5 PFK	442.97280		1.0					
57	TCDF PCDPE	375.8364		1.0					
58	F1 PeCDF PCDPE	409.79740		1.0					
59	F2 PeCDF PCDPE	409.7974		1.0					
60	HXCDF PCDPE	445.7555		1.0					
61	HPCDF PCDPE	479.7165		1.0					
62	OCDF PCDPE	513.67750		1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\TO910D5.mdb 24 Jul 2009 07:11:07
Calibration: 13 Dec 2010 11:23:43

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio (Act)	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.61	100.0	609693	1.00000	0.838	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.02	100.0	794593	1.30327	0.769	NO	
4	2,3,7,8-TCDF	303.9016	19.04	0.5	3764	0.94748	0.892	YES	
5	Total TCDFs	303.9016		0.5					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.82	100.0	558616	0.91623	0.843	NO	
8	2,3,7,8-TCDD	319.8965	19.85	0.5	2866	1.02618	0.804	NO	
9	Total TCDDs	319.8965		0.5					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.88	0.5	1953	0.69937			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.86	100.0	641135	1.05157	1.586	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.87	2.5	15974	0.99658	1.501	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.43	2.5	15749	0.98258	1.674	NO	
16	Total F2 PeCDFs	339.8597		2.5					
17	Total F1 PeCDFs	339.8597		2.5					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.24	100.0	468088	0.76774	1.587	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.29	2.5	9964	0.85145	1.510	NO	
21	Total PeCDDs	355.8546		2.5					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.26	100.0	476418	1.00000	1.179	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.11	100.0	499884	1.04926	0.520	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.13	2.5	14925	1.19431	1.279	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.25	2.5	16615	1.32954	1.196	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.79	2.5	15750	1.26030	1.301	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.44	2.5	14040	1.12345	1.299	NO	
30	Total HxCDFs	373.8208		2.5					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	33.00	100.0	455626	0.95636	1.275	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.93	2.5	9211	0.80862	1.251	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.01	2.5	11126	0.97675	1.268	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.27	2.5	10487	0.92066	1.315	NO	
36	Total HxCDDs	389.8157		2.5					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.79	100.0	455314	0.95570	0.456	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.80	2.5	15770	1.38545	1.052	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.95	2.5	13045	1.14604	1.025	NO	
41	Total HpCDFs	407.7818		2.5					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.62	100.0	415880	0.87293	0.990	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.63	2.5	9485	0.91228	1.134	NO	
45	Total HpCDDs	423.7766		2.5					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

#	Name	Trace	RT	Std. Conc	Response	RRF	Ratio (Ac	Ratio Flag	Mod Date
47	13C-OCDD	469.7779	38.18	200.0	668582	0.70168	0.873	NO	
48	OCDF	441.7428	38.30	5.0	21273	1.27274	0.989	NO	
49	OCDD	457.7377	38.19	5.0	16717	1.00015	0.894	NO	
50				1.0					
51				1.0					
52	Function 1 PFK	330.97920		1.0					
53	Function 2 PFK	342.97920		1.0					
54	Function 3 PFK	380.97600		1.0					
55	Function 4 PFK	430.97290		1.0					
56	Function 5 PFK	442.97280		1.0					
57	TCDF PCDPE	375.8364		1.0					
58	F1 PeCDF PCDPE	409.79740		1.0					
59	F2 PeCDF PCDPE	409.7974		1.0					
60	HXCDF PCDPE	445.7555		1.0					
61	HPCDF PCDPE	479.7165		1.0					
62	OCDF PCDPE	513.67750		1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

#	Name	Trace	RT	Std. Conc	Response	RRF	Ratio (Act.	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.61	100.0	609578	1.00000	0.797	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.02	100.0	776834	1.27438	0.786	NO	
4	2,3,7,8-TCDF	303.9016	19.04	2.0	14902	0.95916	0.734	NO	
5	Total TCDFs	303.9016		2.0					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.84	100.0	551020	0.90394	0.793	NO	
8	2,3,7,8-TCDD	319.8965	19.85	2.0	10711	0.97190	0.747	NO	
9	Total TCDDs	319.8965		2.0					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.85	2.0	6652	0.60365			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.86	100.0	618580	1.01477	1.595	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.88	10.0	64062	1.03562	1.607	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.42	10.0	61997	1.00225	1.629	NO	
16	Total F2 PeCDFs	339.8597		10.0					
17	Total F1 PeCDFs	339.8597		10.0					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.24	100.0	443952	0.72829	1.564	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.27	10.0	40885	0.92094	1.540	NO	
21	Total PeCDDs	355.8546		10.0					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.26	100.0	453963	1.00000	1.228	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.13	100.0	474860	1.04603	0.514	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.14	10.0	60999	1.28457	1.306	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.25	10.0	66045	1.39082	1.226	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.80	10.0	63299	1.33300	1.255	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.44	10.0	53783	1.13261	1.210	NO	
30	Total HxCDFs	373.8208		10.0					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	33.00	100.0	424958	0.93611	1.310	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.94	10.0	38706	0.91082	1.199	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.01	10.0	43830	1.03139	1.295	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.27	10.0	41456	0.97554	1.286	NO	
36	Total HxCDDs	389.8157		10.0					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.79	100.0	444806	0.97983	0.451	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.80	10.0	61182	1.37548	1.037	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.96	10.0	51122	1.14932	1.036	NO	
41	Total HpCDFs	407.7818		10.0					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.62	100.0	402327	0.88625	1.088	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.63	10.0	40780	1.01359	1.025	NO	
45	Total HpCDDs	423.7766		10.0					
46				1.0					
47	13C-OCDD	469.7779	38.19	200.0	611278	0.67327	0.901	NO	
48	OCDF	441.7428	38.31	20.0	86375	1.41302	0.964	NO	
49	OCDD	457.7377	38.20	20.0	68132	1.11459	0.921	NO	

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

#	Name	Trace	RT	Std. Conc	Response	RRF	Ratio (Act	Ratio Flag	Mod Date
50				1.0					
51				1.0					
52	Function 1 PFK	330.97920		1.0					
53	Function 2 PFK	342.97920		1.0					
54	Function 3 PFK	380.97600		1.0					
55	Function 4 PFK	430.97290		1.0					
56	Function 5 PFK	442.97280		1.0					
57	TCDF PCDPE	375.8364		1.0					
58	F1 PeCDF PCDPE	409.79740		1.0					
59	F2 PeCDF PCDPE	409.7974		1.0					
60	HXCDF PCDPE	445.7555		1.0					
61	HPCDF PCDPE	479.7165		1.0					
62	OCDF PCDPE	513.67750		1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

#	Name	Trace	RT	Std. Conc	Response	RRF	Ratio (Act	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.61	100.0	604149	1.00000	0.776	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.01	100.0	810761	1.34199	0.783	NO	
4	2,3,7,8-TCDF	303.9016	19.04	10.0	85973	1.06040	0.771	NO	
5	Total TCDFs	303.9016		10.0					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.82	100.0	580571	0.96097	0.759	NO	
8	2,3,7,8-TCDD	319.8965	19.85	10.0	61741	1.06344	0.753	NO	
9	Total TCDDs	319.8965		10.0					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.85	10.0	36310	0.62541			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.84	100.0	643565	1.06524	1.599	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.88	50.0	383104	1.19057	1.593	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.42	50.0	371684	1.15508	1.585	NO	
16	Total F2 PeCDFs	339.8597		50.0					
17	Total F1 PeCDFs	339.8597		50.0					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.24	100.0	462672	0.76582	1.574	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.27	50.0	239590	1.03568	1.582	NO	
21	Total PeCDDs	355.8546		50.0					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.26	100.0	465293	1.00000	1.243	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.11	100.0	513790	1.10423	0.522	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.13	50.0	362671	1.41175	1.272	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.25	50.0	395466	1.53941	1.277	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.79	50.0	371350	1.44553	1.273	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.44	50.0	334332	1.30143	1.282	NO	
30	Total HxCDFs	373.8208		50.0					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	33.00	100.0	428659	0.92127	1.248	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.94	50.0	234119	1.09233	1.235	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.01	50.0	257308	1.20053	1.261	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.27	50.0	252199	1.17669	1.206	NO	
36	Total HxCDDs	389.8157		50.0					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.79	100.0	469455	1.00894	0.447	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.80	50.0	368308	1.56909	1.055	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.95	50.0	306415	1.30541	1.079	NO	
41	Total HpCDFs	407.7818		50.0					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.61	100.0	409183	0.87941	1.094	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.63	50.0	240029	1.17321	1.061	NO	
45	Total HpCDDs	423.7766		50.0					
46				1.0					
47	13C-OCDD	469.7779	38.19	200.0	645462	0.69361	0.932	NO	
48	OCDF	441.7428	38.30	100.0	517349	1.60304	0.929	NO	
49	OCDD	457.7377	38.20	100.0	400380	1.24060	0.897	NO	

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

#	Name	Trace	RT	Std. Conc.	Response	RRF	Ratio (Act.	Ratio Flag	Mod. Date
50				1.0					
51				1.0					
52	Function 1 PFK	330.97920		1.0					
53	Function 2 PFK	342.97920		1.0					
54	Function 3 PFK	380.97600		1.0					
55	Function 4 PFK	430.97290		1.0					
56	Function 5 PFK	442.97280		1.0					
57	TCDF PCDPE	375.8364		1.0					
58	F1 PeCDF PCDPE	409.79740		1.0					
59	F2 PeCDF PCDPE	409.7974		1.0					
60	HXCDF PCDPE	445.7555		1.0					
61	HPCDF PCDPE	479.7165		1.0					
62	OCDF PCDPE	513.67750		1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio (Act)	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.60	100.0	602400	1.00000	0.790	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.01	100.0	789598	1.31075	0.805	NO	
4	2,3,7,8-TCDF	303.9016	19.02	40.0	322804	1.02205	0.781	NO	
5	Total TCDFs	303.9016		40.0					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.82	100.0	523900	0.86969	0.781	NO	
8	2,3,7,8-TCDD	319.8965	19.84	40.0	221431	1.05665	0.792	NO	
9	Total TCDDs	319.8965		40.0					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.84	40.0	139050	0.66353			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.83	100.0	593424	0.98510	1.624	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.86	200.0	1324125	1.11566	1.596	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.41	200.0	1294179	1.09043	1.600	NO	
16	Total F2 PeCDFs	339.8597		200.0					
17	Total F1 PeCDFs	339.8597		200.0					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.22	100.0	418442	0.69462	1.607	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.26	200.0	838327	1.00172	1.569	NO	
21	Total PeCDDs	355.8546		200.0					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.25	100.0	445957	1.00000	1.206	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.10	100.0	471753	1.05784	0.515	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.13	200.0	1249924	1.32476	1.255	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.24	200.0	1370397	1.45245	1.250	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.78	200.0	1276127	1.35254	1.243	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.43	200.0	1126243	1.19368	1.285	NO	
30	Total HxCDFs	373.8208		200.0					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.99	100.0	380653	0.85356	1.263	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.92	200.0	810231	1.06427	1.250	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.00	200.0	879403	1.15512	1.268	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.26	200.0	877007	1.15198	1.151	NO	
36	Total HxCDDs	389.8157		200.0					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.78	100.0	418363	0.93812	0.466	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.79	200.0	1245640	1.48871	1.053	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.94	200.0	1060702	1.26768	1.060	NO	
41	Total HpCDFs	407.7818		200.0					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.60	100.0	364637	0.81765	1.086	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.62	200.0	796433	1.09209	1.048	NO	
45	Total HpCDDs	423.7766		200.0					
46				1.0					
47	13C-OCDD	469.7779	38.16	200.0	581821	0.65233	0.928	NO	
48	OCDF	441.7428	38.29	400.0	1825195	1.56852	0.921	NO	
49	OCDD	457.7377	38.18	400.0	1391511	1.19582	0.904	NO	

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio (Act)	Ratio Flag	Mod Date
50				1.0					
51				1.0					
52	Function 1 PFK		330.97920	1.0					
53	Function 2 PFK		342.97920	1.0					
54	Function 3 PFK		380.97600	1.0					
55	Function 4 PFK		430.97290	1.0					
56	Function 5 PFK		442.97280	1.0					
57	TCDF PCDPE		375.8364	1.0					
58	F1 PeCDF PCDPE		409.79740	1.0					
59	F2 PeCDF PCDPE		409.7974	1.0					
60	HXCDF PCDPE		445.7555	1.0					
61	HPCDF PCDPE		479.7165	1.0					
62	OCDF PCDPE		513.67750	1.0					

Dataset: C:\MassLynx\Default.pro\ICA09291010D5TO9.qld

Last Altered: Monday, December 13, 2010 11:23:43 Pacific Standard Time
Printed: Monday, December 13, 2010 11:25:49 Pacific Standard Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio (Act	Ratio Flag	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	19.60	100.0	631997	1.00000	0.802	NO	
2				1.0					
3	13C-2,3,7,8-TCDF	315.9419	19.01	100.0	840396	1.32975	0.780	NO	
4	2,3,7,8-TCDF	303.9016	19.02	200.0	1715346	1.02056	0.788	NO	
5	Total TCDFs	303.9016		200.0					
6				1.0					
7	13C-2,3,7,8-TCDD	331.9368	19.82	100.0	566331	0.89610	0.776	NO	
8	2,3,7,8-TCDD	319.8965	19.84	200.0	1195017	1.05505	0.791	NO	
9	Total TCDDs	319.8965		200.0					
10				1.0					
11	37CL-2,3,7,8-TCDD	327.8847	19.84	200.0	775307	0.68450			
12				1.0					
13	13C-1,2,3,7,8-PeCDF	351.9000	24.83	100.0	633407	1.00223	1.604	NO	
14	1,2,3,7,8-PeCDF	339.8597	24.86	1000.0	7092377	1.11972	1.583	NO	
15	2,3,4,7,8-PeCDF	339.8597	26.39	1000.0	6905686	1.09024	1.563	NO	
16	Total F2 PeCDFs	339.8597		1000.0					
17	Total F1 PeCDFs	339.8597		1000.0					
18				1.0					
19	13C-1,2,3,7,8-PeCDD	367.8949	27.22	100.0	452363	0.71577	1.561	NO	
20	1,2,3,7,8-PeCDD	355.8546	27.24	1000.0	4486035	0.99169	1.566	NO	
21	Total PeCDDs	355.8546		1000.0					
22				1.0					
23	13C-1,2,3,7,8,9-HxCDD	401.8559	33.25	100.0	503101	1.00000	1.259	NO	
24				1.0					
25	13C-1,2,3,4,7,8-HxCDF	383.8639	32.10	100.0	497918	0.98970	0.522	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	32.11	1000.0	6710032	1.34762	1.269	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	32.24	1000.0	7358353	1.47782	1.260	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	32.78	1000.0	6822905	1.37029	1.251	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	33.43	1000.0	6156322	1.23641	1.261	NO	
30	Total HxCDFs	373.8208		1000.0					
31				1.0					
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.99	100.0	430313	0.85532	1.305	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	32.91	1000.0	4438620	1.03149	1.242	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	33.00	1000.0	4765577	1.10747	1.274	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	33.26	1000.0	4580004	1.06434	1.230	NO	
36	Total HxCDDs	389.8157		1000.0					
37				1.0					
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.78	100.0	446215	0.88693	0.458	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.79	1000.0	6672125	1.49527	1.044	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.94	1000.0	5736529	1.28560	1.042	NO	
41	Total HpCDFs	407.7818		1000.0					
42				1.0					
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.60	100.0	395218	0.78556	0.990	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.62	1000.0	4274245	1.08149	1.033	NO	
45	Total HpCDDs	423.7766		1000.0					
46				1.0					
47	13C-OCDD	469.7779	38.16	200.0	656386	0.65234	0.878	NO	
48	OCDF	441.7428	38.29	2000.0	10326118	1.57318	0.933	NO	
49	OCDD	457.7377	38.18	2000.0	7743775	1.17976	0.900	NO	

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Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

#	Name	Trace	RT	Std Conc	Response	RRF	Ratio (Act	Ratio Flag	Mod Date
50				1.0					
51				1.0					
52	Function 1 PFK	330.97920		1.0					
53	Function 2 PFK	342.97920		1.0					
54	Function 3 PFK	380.97600		1.0					
55	Function 4 PFK	430.97290		1.0					
56	Function 5 PFK	442.97280		1.0					
57	TCDF PCDPE	375.8364		1.0					
58	F1 PeCDF PCDPE	409.79740		1.0					
59	F2 PeCDF PCDPE	409.7974		1.0					
60	HXCDF PCDPE	445.7555		1.0					
61	HPCDF PCDPE	479.7165		1.0					
62	OCDF PCDPE	513.67750		1.0					

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size	Bottle
1	29SE10A10D5_1	CS-1 10DXN342	ST0929	—	—	1.000000	Tray1:37
2	29SE10A10D5_2	CS-2 10DXN335	ST0929A	—	—	1.000000	Tray1:38
3	29SE10A10D5_3	CS-3 10DXN426	ST0929B	—	—	1.000000	Tray01:2
4	29SE10A10D5_4	CS-4 10DXN337	ST0929C	—	—	1.000000	Tray1:39
5	29SE10A10D5_5	CS-5 10DXN339	ST0929D	—	—	1.000000	Tray1:40
6	29SE10A10D5_6	2nd Source 10DXN340	ST0929E	1613B/8290	—	1.000000	Tray1:41
7	29SE10A10D5_7	Solvent Blank C-14	SB0929	—		1.000000	Tray01:3
8	29SE10A10D5_8	DB-5 CPSM 3732-08	CP0929	—		1.000000	Tray01:1
9	29SE10A10D5_9	CS3 10DXN426	ST0929F	—		1.000000	Tray01:2
10	29SE10A10D5_10	G0I230000-214B 0266214	L7DMC-1-AA	1613BT/Water	58	1.000000	Tray01:5
11	29SE10A10D5_11	G0I270000-240B 0270240	L7JWD-1-AA	1613B/Water	61	1.000000	Tray01:6
12	29SE10A10D5_12	G0I240000-139B 0267139	L7FAJ-1-AA	1613B/Water	61	1.000000	Tray01:7
13	29SE10A10D5_13	G0I150512-1 0264239	L61WG-1-AA	1613B/Water	55	1.089010	Tray01:8
14	29SE10A10D5_14	G0I220520-1 0270240	L7A08-1-AA	1613B/Water	55	0.963050	Tray01:9
15	29SE10A10D5_15	G0I170522-1 0267139	L65N0-1-AA	1613B/Water	61	1.038360	Tray01:10
16	29SE10A10D5_16	G0I180497-1 0266214	L6687-1-AA	1613BT/Water	58	1.047540	Tray01:11
17	29SE10A10D5_17	G0I180497-2 0266214	L6688-1-AA	1613BT/Water	58	1.035720	Tray01:12
18	29SE10A10D5_18	G0I150497-2 0270345	L61QR-1-AC	1613BT/Solid	61	5.040000	Tray01:13
19	29SE10A10D5_19	G0I270000-240C 0270240	L7JWD-1-AC	1613B/Water	61	1.000000	Tray01:14
20	29SE10A10D5_20	G0I240000-139C 0267139	L7FAJ-1-AC	1613B/Water	61	1.000000	Tray01:15
21	29SE10A10D5_21	G0I240000-139L 0267139	L7FAJ-1-AD	1613B/Water	61	1.000000	Tray01:16
22	29SE10A10D5_22	G0I230000-214C 0266214	L7DMC-1-AC	1613BT/Water	58	1.000000	Tray01:17
23	29SE10A10D5_23	Solvent Blank C-14	SB0929A	—		1.000000	Tray01:3
24	29SE10A10D5_24	CS3 10DXN417	ST0929G	—		1.000000	Tray01:2
25	29SE10A10D5_25	DB-5 CPSM 3732-08	CP0929A	—		1.000000	Tray01:1
26	29SE10A10D5_26	G0I190000-56B 0262056	L67CL-1-AA	8290/Solid	51	10.000000	Tray01:18
27	29SE10A10D5_27	C0I100410-1 0258270	L6RKV-1-AA	8290/Water	44	1.015520	Tray01:19
28	29SE10A10D5_28	C0I100410-2 0258270	L6RKW-1-AA	8290/Water	44	0.977650	Tray01:20
29	29SE10A10D5_29	C0I100410-3 0258270	L6RK0-1-AA	8290/Water	44	1.017440	Tray01:21
30	29SE10A10D5_30	C0I100410-4 0258270	L6RK1-1-AA	8290/Water	44	1.008830	Tray01:22
31	29SE10A10D5_31	C0I100410-5 0258270	L6RK2-1-AA	8290/Water	44	1.046150	Tray01:23
32	29SE10A10D5_32	C0I100410-5S 0258270	L6RK2-1-AD	8290/Water	44	1.040050	Tray01:24
33	29SE10A10D5_33	C0I100410-5D 0258270	L6RK2-1-AE	8290/Water	44	1.025850	Tray01:25
34	29SE10A10D5_34	C0I100410-6 0258270	L6RK3-1-AA	8290/Water	44	1.026800	Tray01:26
35	29SE10A10D5_35	G0I150498-1 0262058	L61Q5-1-AC	8290/Solid	53	9.750000	Tray01:27
36	29SE10A10D5_36	G0I160496-4 0263146	L63QF-1-AC	8290/Solid	50	9.980000	Tray01:28
37	29SE10A10D5_37	G0I160496-5 0263146	L63QG-1-AC	8290/Solid	50	10.360000	Tray01:29
38	29SE10A10D5_38	G0I190000-56C 0262056	L67CL-1-AC	8290/Solid	51	10.000000	Tray01:30
39	29SE10A10D5_39	CS3 10DXN417	ST0929H	—		1.000000	Tray01:2
40	29SE10A10D5_40	DB-5 CPSM 3732-08	CP0929B	—		1.000000	Tray01:1
41	29SE10A10D5_41	Solvent Blank C-14	SB0929B	—		1.000000	Tray01:3
42	29SE10A10D5_42	G0I160496-6 0263146	L63QH-1-AC	8290/Solid	50	10.350000	Tray01:31
43	29SE10A10D5_43	G0I160496-8 0263146	L63QN-1-AC	8290/Solid	50	10.100000	Tray01:32
44	29SE10A10D5_44	G0I130476-1 0256381	L6WRD-1-AC	8290/Solid	42	10.100000	Tray01:33
45	29SE10A10D5_45	G0I020531-1 0262056	L6GJ0-1-AC	8290/Solid	51	9.850000	Tray01:34
46	29SE10A10D5_46	G0I020531-2 0262056	L6GJ1-1-AC	8290/Solid	51	10.000000	Tray01:35
47	29SE10A10D5_47	G0I020531-6 0262056	L6GJ9-1-AC	8290/Solid	51	10.380000	Tray01:36
48	29SE10A10D5_48	G0I020531-6S 0262056	L6GJ9-1-AF	8290/Solid	51	10.430000	Tray01:37
49	29SE10A10D5_49	G0I020531-6D 0262056	L6GJ9-1-AG	8290/Solid	51	9.920000	Tray01:38
50	29SE10A10D5_50	G0I020531-7 0262056	L6GKG-1-AC	8290/Solid	51	9.990000	Tray01:39
51	29SE10A10D5_51	G0I020531-10 0262056	L6GKR-1-AC	8290/Solid	51	9.660000	Tray01:40
52	29SE10A10D5_52	G0I020531-11 0262056	L6GK7-1-AC	8290/Solid	51	9.650000	Tray01:41
53	29SE10A10D5_53	Solvent Blank C-14	SB0929C	—		1.000000	Tray01:3
54	29SE10A10D5_54	CS3 10DXN417	ST0929I	—		1.000000	Tray01:2
55	29SE10A10D5_55	DB-5 CPSM 3732-08	CP0929C	—		1.000000	Tray01:1
56	29SE10A10D5_56	Solvent Blank C-14	SB0929D	—		1.000000	Tray01:3
57	29SE10A10D5_57	G0I020531-12 0262056	L6GK8-1-AC	8290/Solid	51	9.760000	Tray01:42
58	29SE10A10D5_58	G0I020531-12S 0262056	L6GK8-1-AF	8290/Solid	51	9.980000	Tray01:43

	File Name	File Text	Sample ID	Meht/Matrix	BOX #	Sample Size	Bottle
59	29SE10A10D5_59	G0I020531-12D 0262056	L6GK8-1-AG	8290/Solid	51	9.720000	Tray01:44
60	29SE10A10D5_60	G0I020531-13 0262056	L6GK9-1-AC	8290/Solid	51	10.380000	Tray01:45
61	29SE10A10D5_61	G0I020531-14 0262056	L6GLD-1-AC	8290/Solid	51	10.060000	Tray01:46
62	29SE10A10D5_62	G0I020531-15 0262056	L6GMJ-1-AC	8290/Solid	51	10.280000	Tray01:47
63	29SE10A10D5_63	G0I020531-16 0262056	L6GML-1-AC	8290/Solid	51	10.180000	Tray01:48
64	29SE10A10D5_64	G0I020531-17 0262056	L6GMM-1-AC	8290/Solid	51	10.310000	Tray01:49
65	29SE10A10D5_65	G0I020531-18 0262056	L6GMN-1-AC	8290/Solid	51	10.410000	Tray01:50
66	29SE10A10D5_66	G0I020531-19 0262056	L6GMP-1-AC	8290/Solid	51	10.220000	Tray01:51
67	29SE10A10D5_67	G0I020531-20 0262056	L6GMW-1-AC	8290/Solid	51	10.380000	Tray01:52
68	29SE10A10D5_68	G0I020531-21 0262056	L6GM0-1-AC	8290/Solid	51	9.870000	Tray01:53
69	29SE10A10D5_69	Solvent Blank C-14	SB0929	—		1.000000	Tray01:3
70	29SE10A10D5_70	CS3 10DXN417	ST0929I	—		1.000000	Tray01:2

Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C	Conc D	Conc E
—	—	1.000000	Standard	JRB	dioxin10D5	dioxin	0.5	2.5	5	100	200
—	—	1.000000	Standard	JRB	dioxin10D5	dioxin	2	10	20	100	200
—	—	1.000000	Standard	JRB	dioxin10D5	dioxin	10	50	100	100	200
—	—	1.000000	Standard	JRB	dioxin10D5	dioxin	40	200	400	100	200
—	—	1.000000	Standard	JRB	dioxin10D5	dioxin	200	1000	2000	100	200
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	10	50	100	100	200
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	10	50	100	100	200
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
L	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	10	50	100	100	200
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—		1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	10	50	100	100	200
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
—		1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	—	—
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000

Unit	FV_ul	Inj Vol	Sample Type	User	MS File	Inlet File	Conc A	Conc B	Conc C	Conc D	Conc E
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
g	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—	20	1.000000	Analyte	JRB	dioxin10D5	dioxin	—	—	—	2000	4000
—	—	1.000000	Analyte	JRB	dioxin10D5	dioxin	10	50	100	100	200

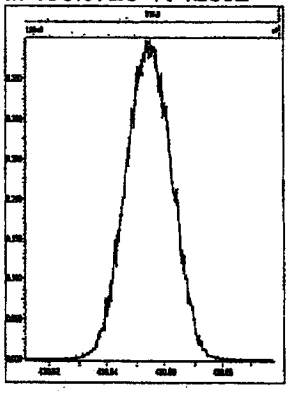
Conc F	Conc G	Conc H	Process	Process Options	Action On Error
0.5	100	—	—	—	—
2	100	—	—	—	—
10	100	—	—	—	—
40	100	—	—	—	—
200	100	—	—	—	—
800	2000	—	ResolutionCheck	C:\Masslynx\Autospec\dioxinendres.dat	Ignore Error
—	—	—	—	—	—
—	—	—	—	—	—
10	100	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
—	—	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
10	100	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
—	—	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
10	100	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
—	—	—	—	—	—
—	—	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
—	—	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
10	100	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error
—	—	—	—	—	—
—	—	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—

Conc F	Conc G	Conc H	Process	Process Options	Action On Error
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
800	2000	—	—	—	—
10	100	—	ResolutionCheck	C:\MassLynx\Autospec\dioxinendres.dat	Ignore Error

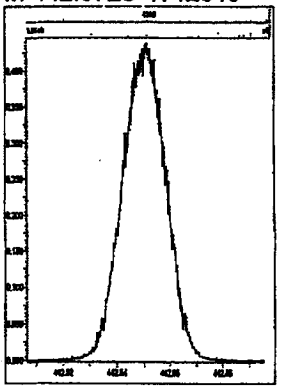
File: Experiment: dioxin10D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, September 29, 2010 18:50:28 Pacific Daylight Time

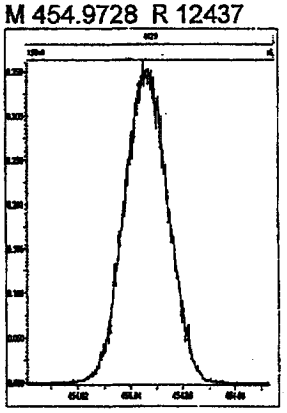
M 430.9728 R 12502



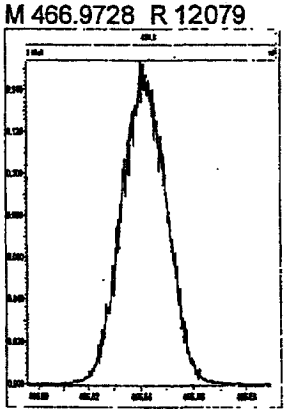
M 442.9728 R 12316



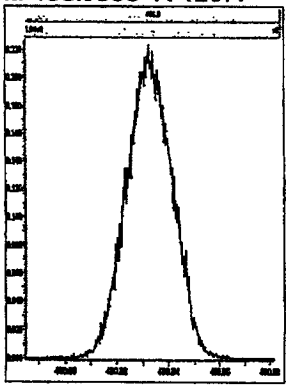
M 454.9728 R 12437



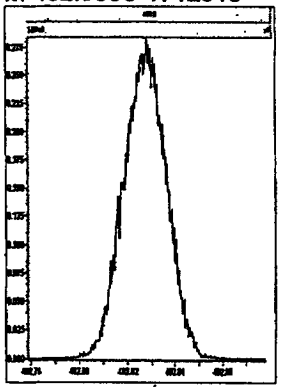
M 466.9728 R 12079



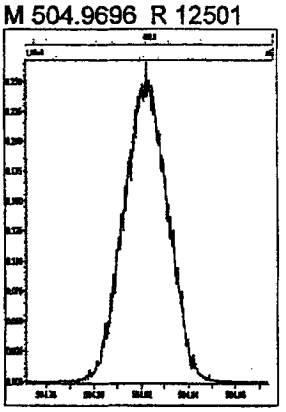
M 480.9696 R 12077



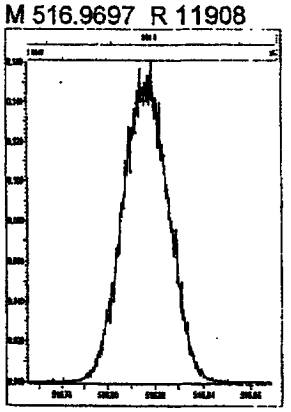
M 492.9696 R 12018



M 504.9696 R 12501



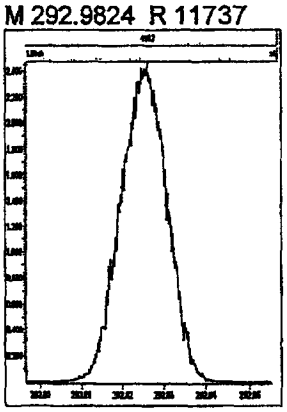
M 516.9697 R 11908



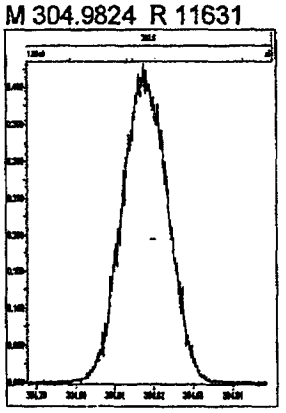
File: Experiment: dioxin10D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, September 29, 2010 18:48:57 Pacific Daylight Time

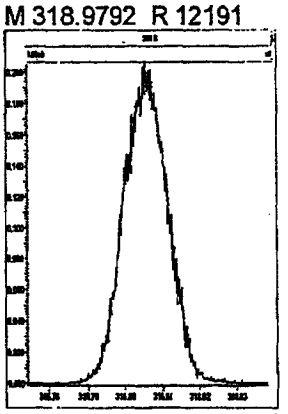
M 292.9824 R 11737



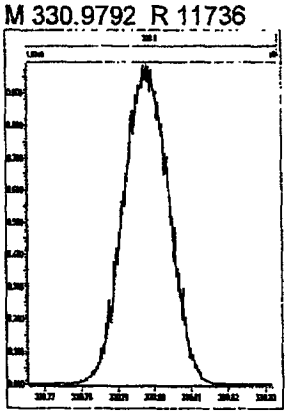
M 304.9824 R 11631



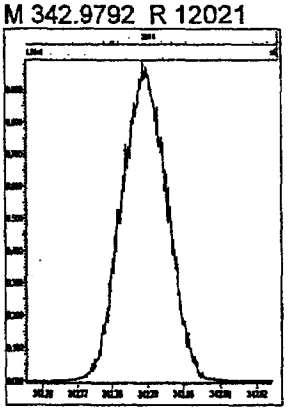
M 318.9792 R 12191



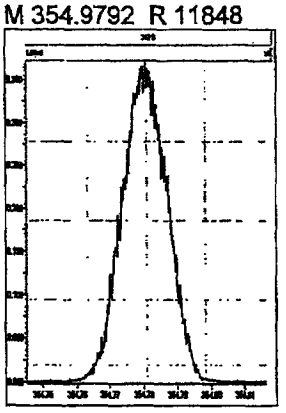
M 330.9792 R 11736



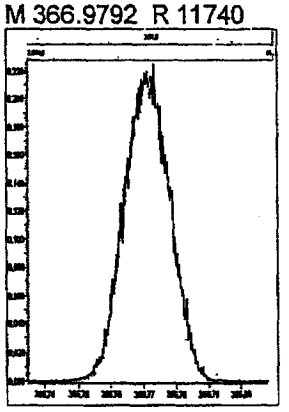
M 342.9792 R 12021



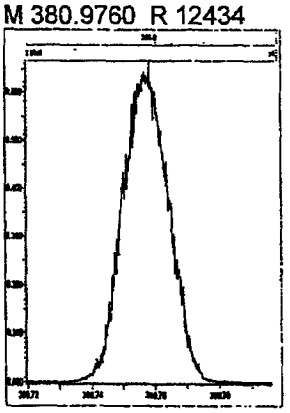
M 354.9792 R 11848



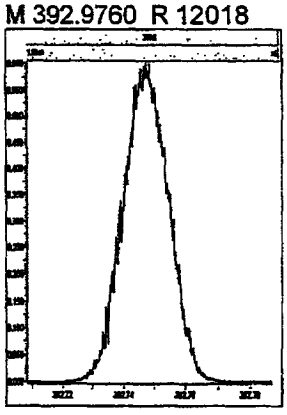
M 366.9792 R 11740



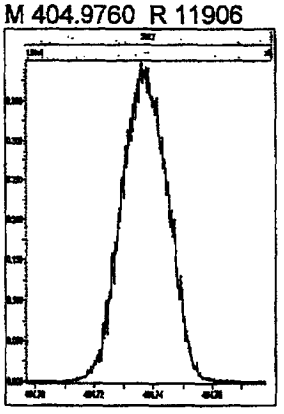
M 380.9760 R 12434



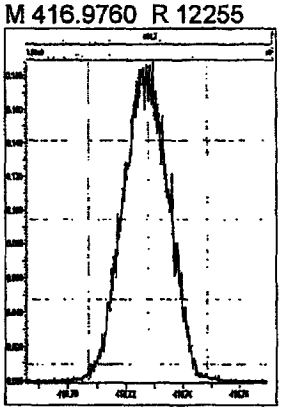
M 392.9760 R 12018



M 404.9760 R 11906



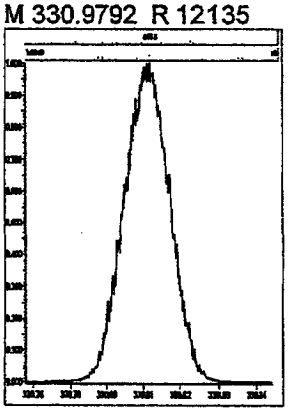
M 416.9760 R 12255



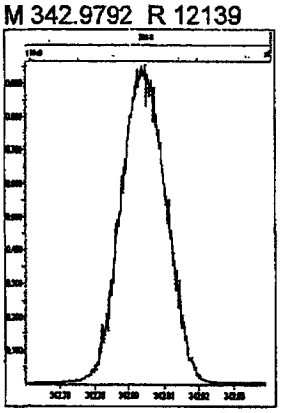
File: Experiment: dioxin10D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, September 29, 2010 18:49:24 Pacific Daylight Time

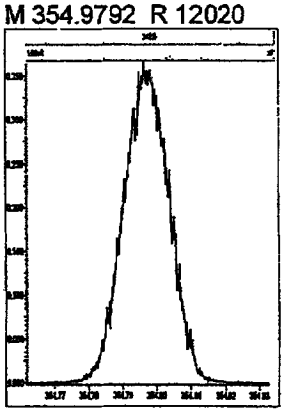
M 330.9792 R 12135



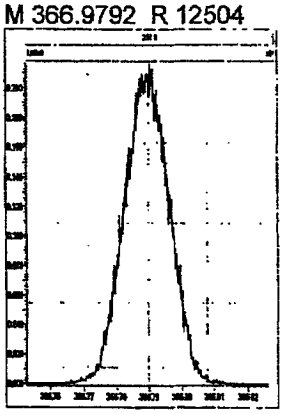
M 342.9792 R 12139



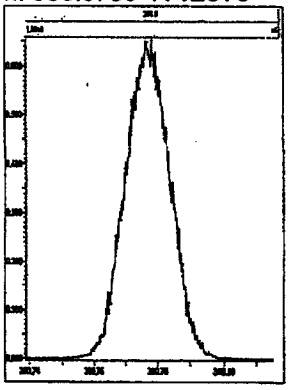
M 354.9792 R 12020



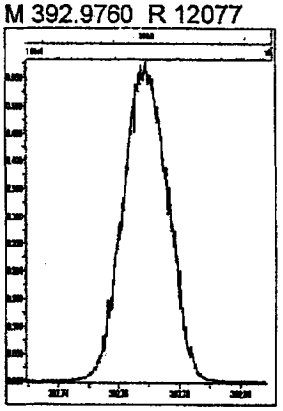
M 366.9792 R 12504



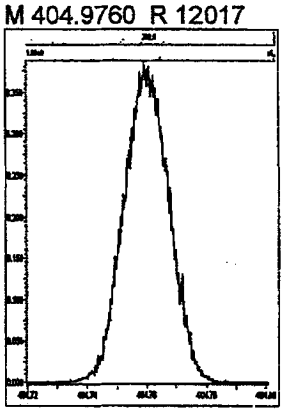
M 380.9760 R 12373



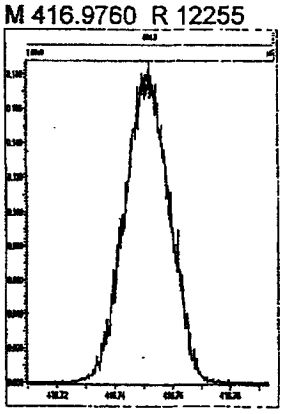
M 392.9760 R 12077



M 404.9760 R 12017



M 416.9760 R 12255



File: Experiment: dioxin10D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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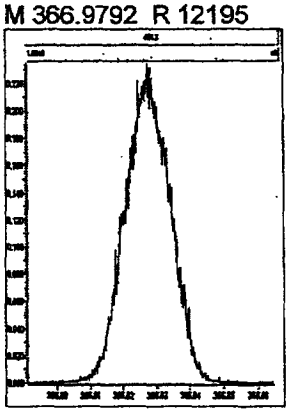
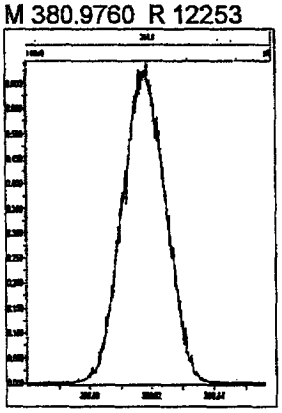
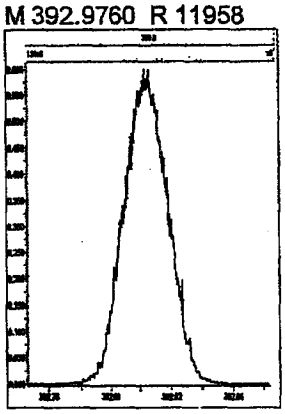
M 366.9792 R 12195



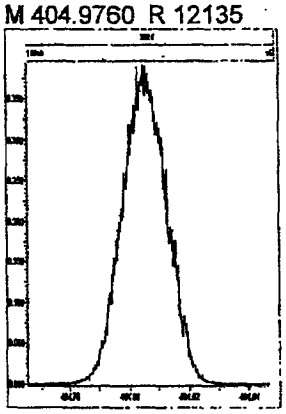
M 380.9760 R 12253



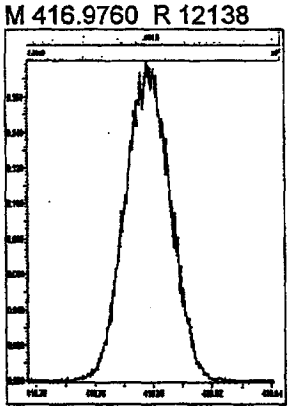
M 392.9760 R 11958



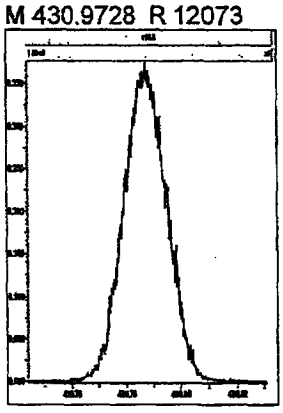
M 404.9760 R 12135



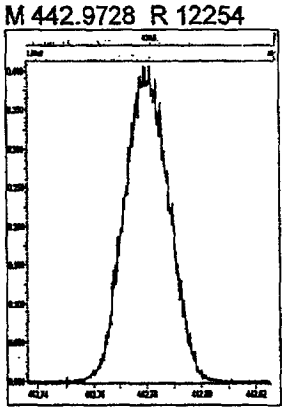
M 416.9760 R 12138



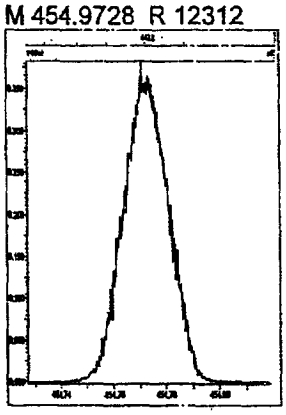
M 430.9728 R 12073



M 442.9728 R 12254



M 454.9728 R 12312



File: Experiment: dioxin10D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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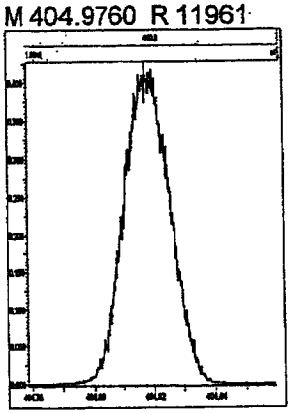
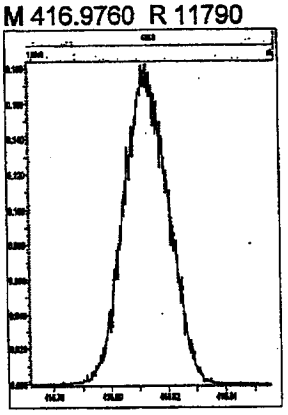
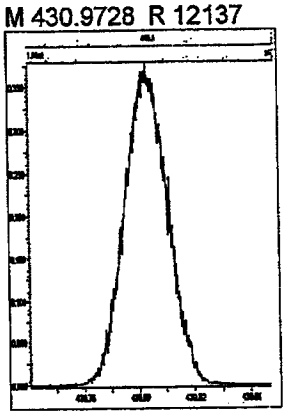
M 404.9760 R 11961



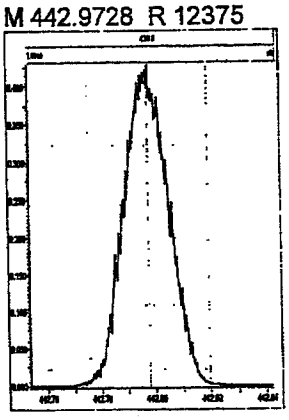
M 416.9760 R 11790



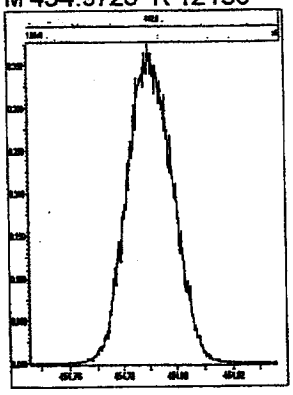
M 430.9728 R 12137



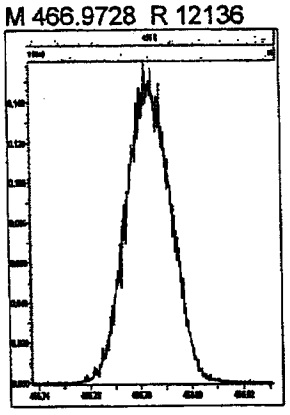
M 442.9728 R 12375



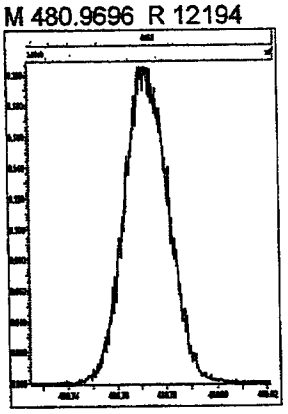
M 454.9728 R 12193



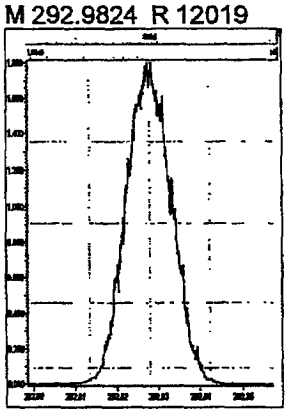
M 466.9728 R 12136



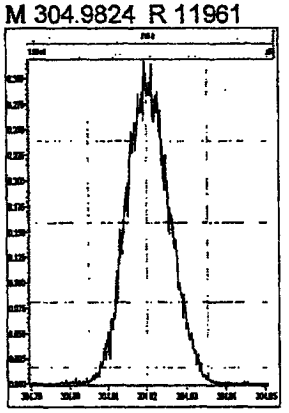
M 480.9696 R 12194



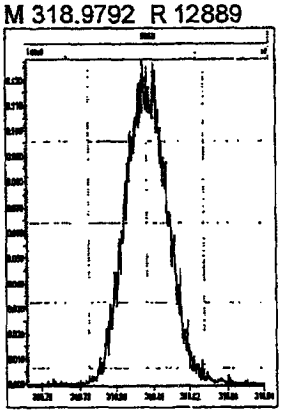
M 292.9824 R 12019



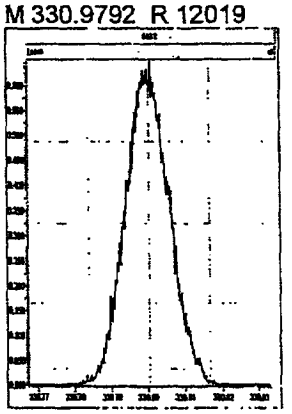
M 304.9824 R 11961



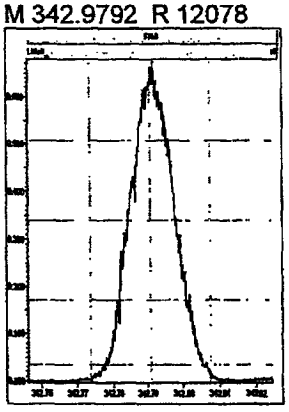
M 318.9792 R 12889



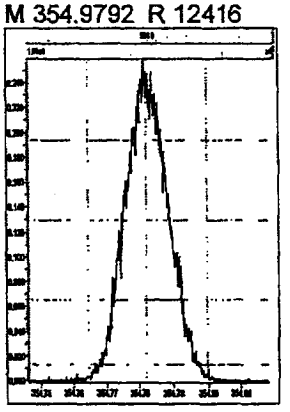
M 330.9792 R 12019



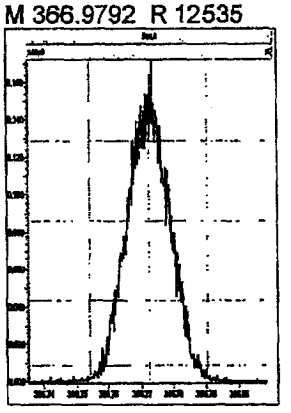
M 342.9792 R 12078



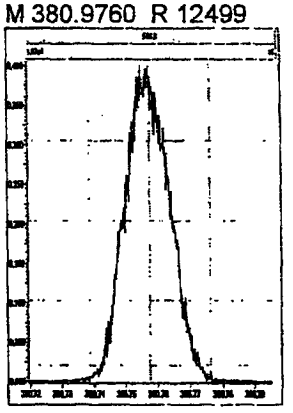
M 354.9792 R 12416



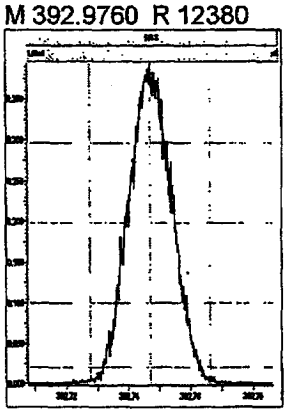
M 366.9792 R 12535



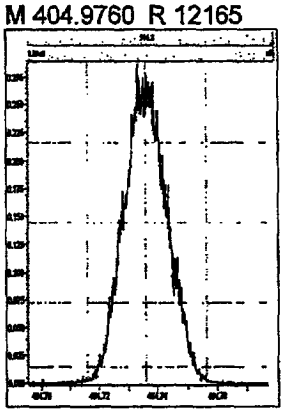
M 380.9760 R 12499



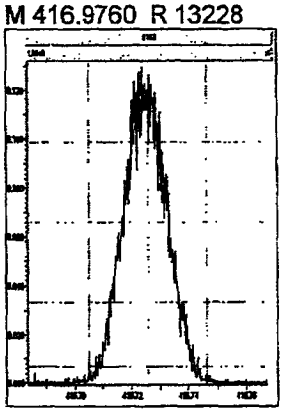
M 392.9760 R 12380



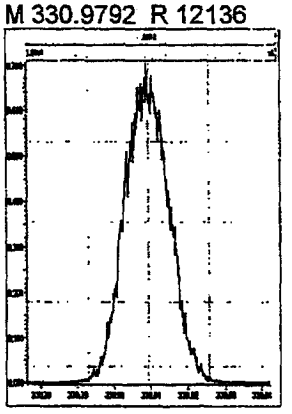
M 404.9760 R 12165



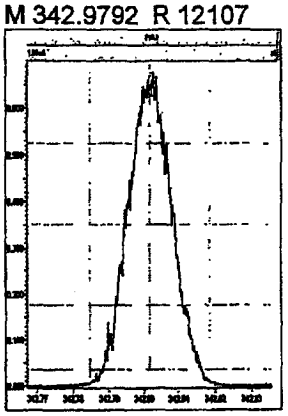
M 416.9760 R 13228



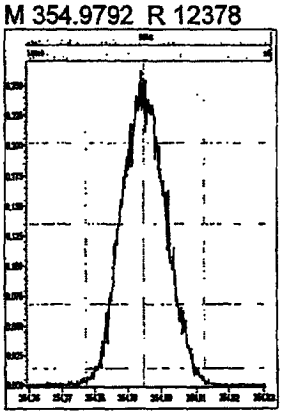
M 330.9792 R 12136



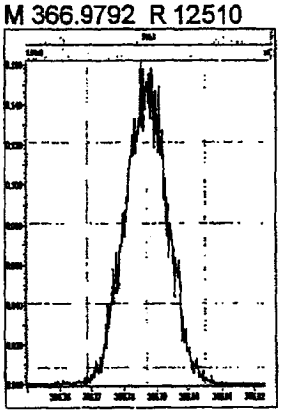
M 342.9792 R 12107



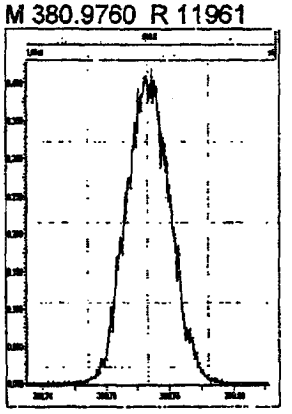
M 354.9792 R 12378



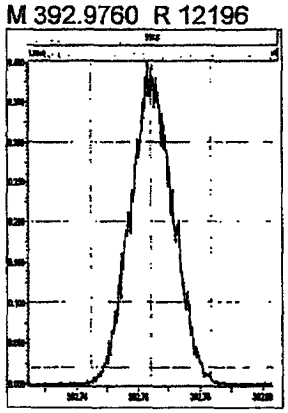
M 366.9792 R 12510



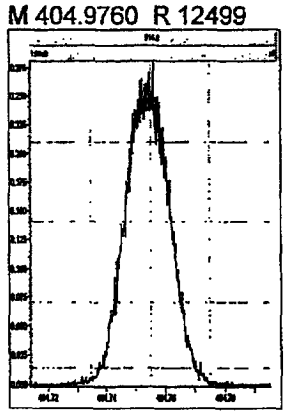
M 380.9760 R 11961



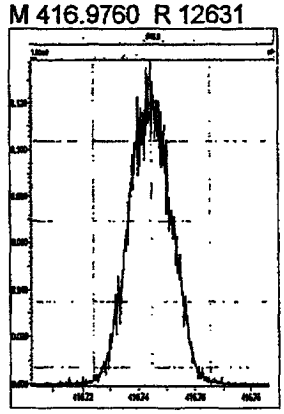
M 392.9760 R 12196



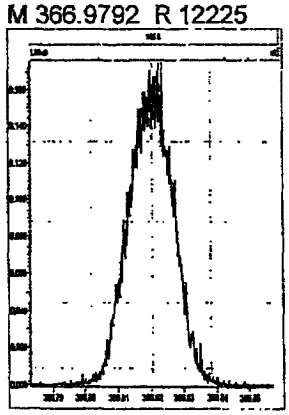
M 404.9760 R 12499



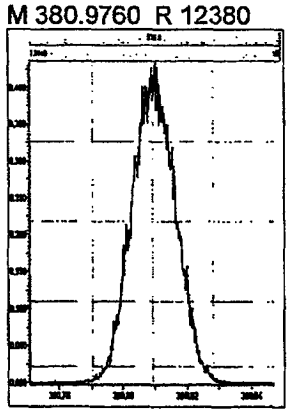
M 416.9760 R 12631



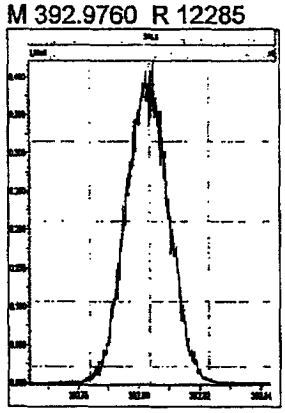
M 366.9792 R 12225



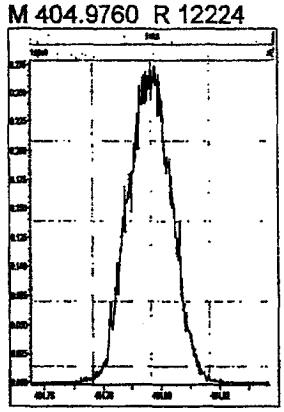
M 380.9760 R 12380



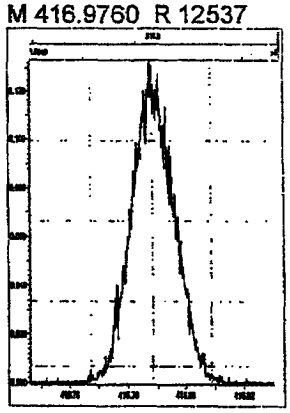
M 392.9760 R 12285



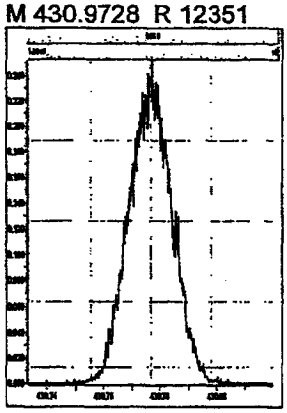
M 404.9760 R 12224



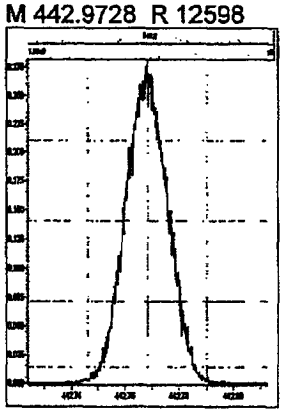
M 416.9760 R 12537



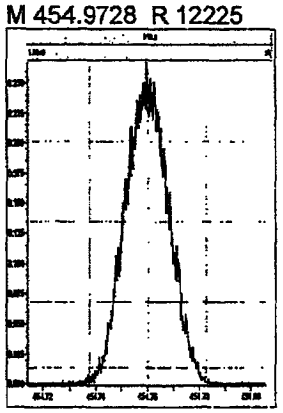
M 430.9728 R 12351



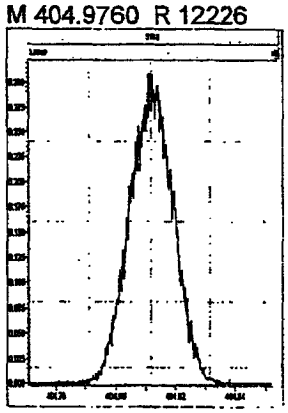
M 442.9728 R 12598



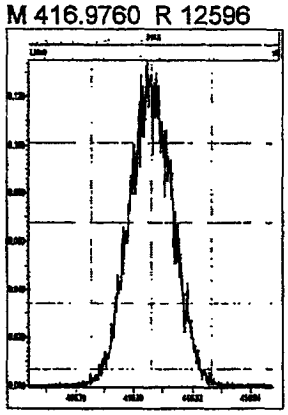
M 454.9728 R 12225



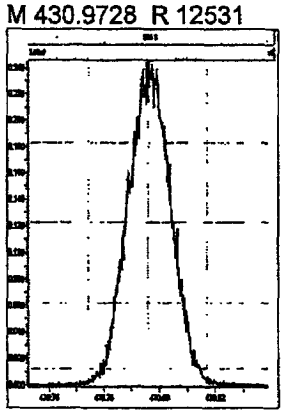
M 404.9760 R 12226



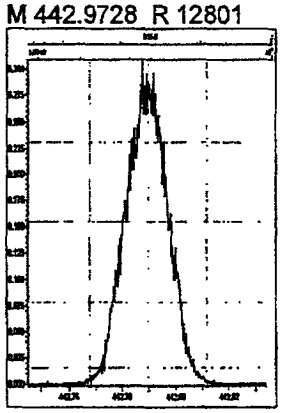
M 416.9760 R 12596



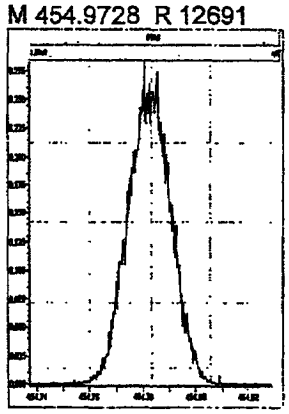
M 430.9728 R 12531



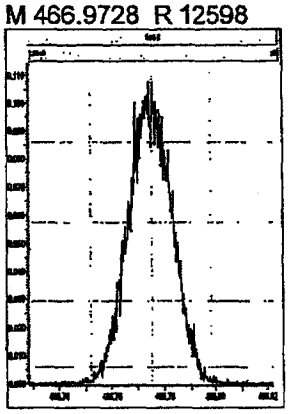
M 442.9728 R 12801



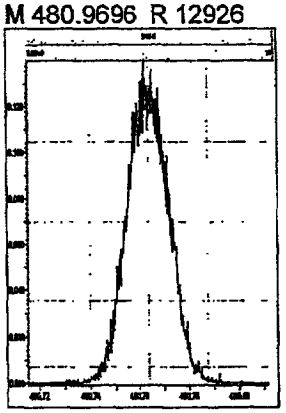
M 454.9728 R 12691



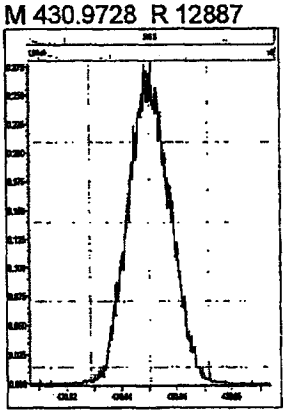
M 466.9728 R 12598



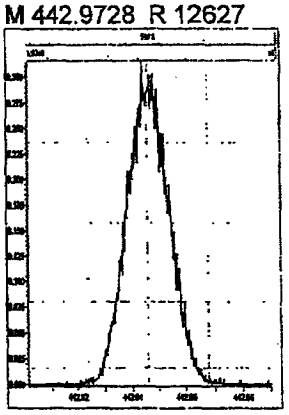
M 480.9696 R 12926



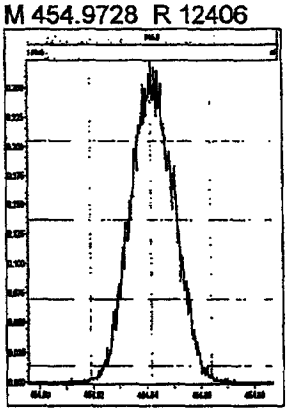
M 430.9728 R 12887



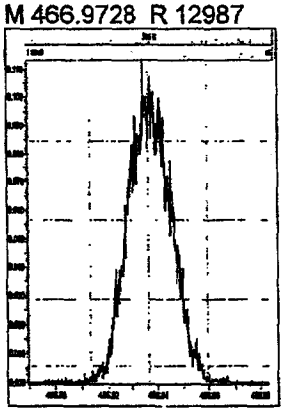
M 442.9728 R 12627



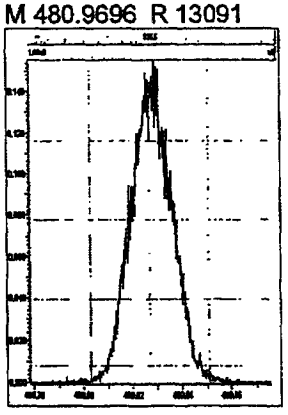
M 454.9728 R 12406



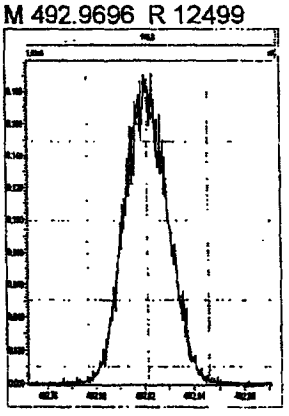
M 466.9728 R 12987



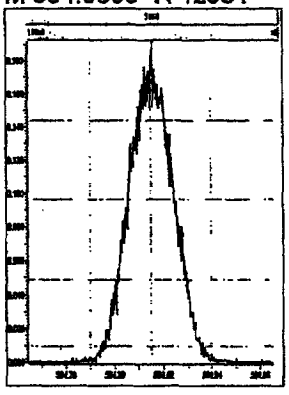
M 480.9696 R 13091



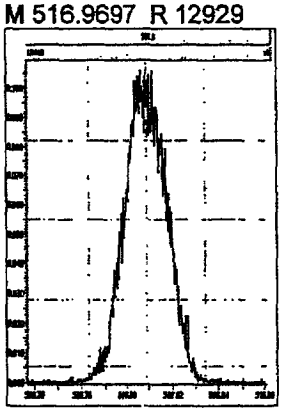
M 492.9696 R 12499

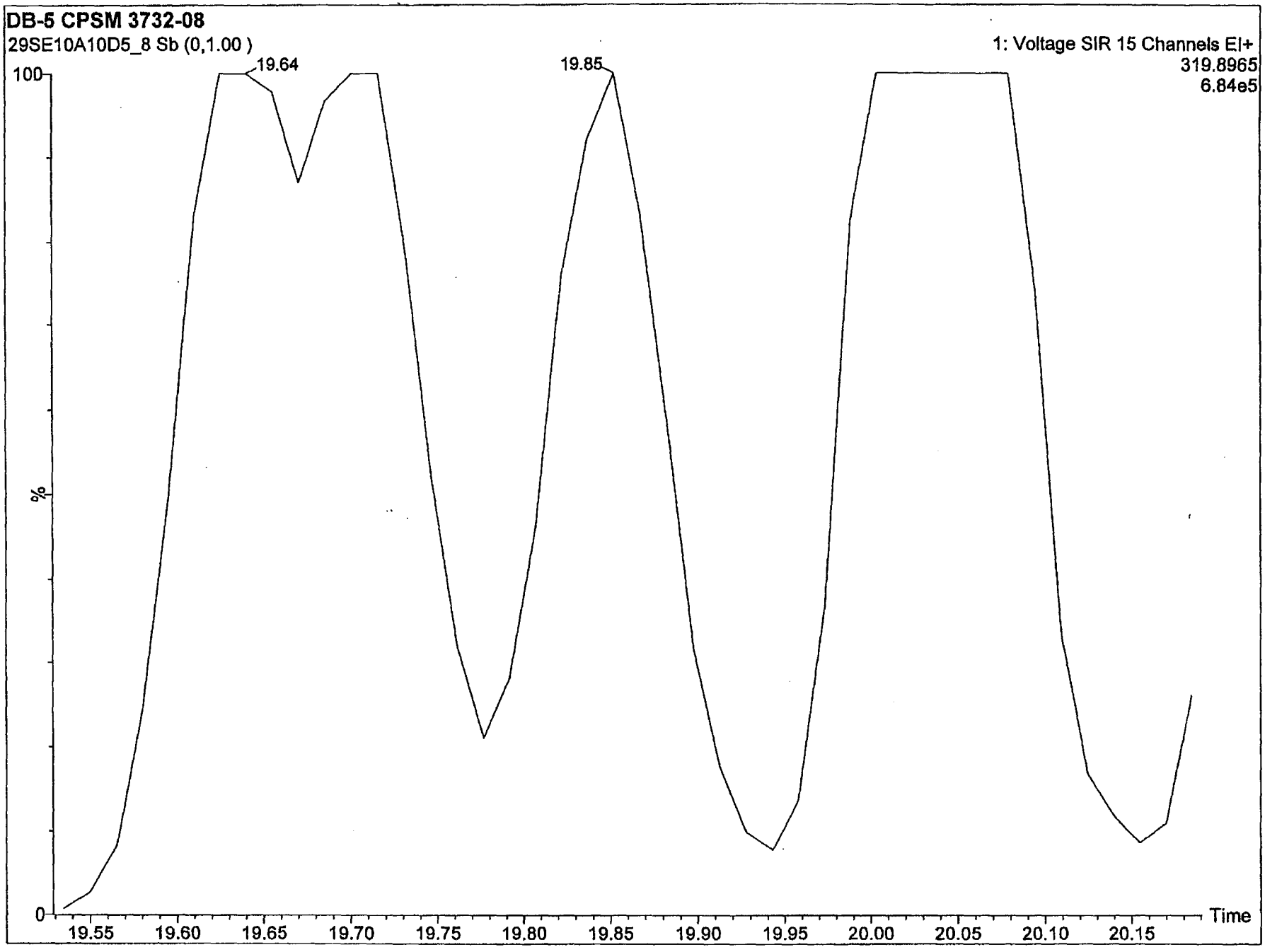


M 504.9696 R 12661



M 516.9697 R 12929




DB-5 CPSM 3732-08
29SE10A10D5_8 Sb (0,1.00)
1: Voltage SIR 15 Channels EI+
319.8965
6.84e5
19.64
19.85
100
%
0
Time
19.55
19.60
19.65
19.70
19.75
19.80
19.85
19.90
19.95
20.00
20.05
20.10
20.15

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:31:47 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\161310D5.mdb 29 Sep 2010 14:36:48
Calibration: C:\MassLynx\Default.pro\Curvedb\ICA09291010D51613.cdb 30 Sep 2010 10:19:34

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF	Abs Resp	Conc	CMPC	%Rec	EDL	Ratio	Prd Ratio	Ratio	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	1.000000	19.61	19.61	1.000	549292.00	2000.0000	2000.0000	100.0	3.2836	0.786	0.770	NO	
2															
3	13C-2,3,7,8-TCDF	315.9419	1.000000	19.01	19.01	1.312	751685.31	2086.0279	2086.0279	104.3	1.9224	0.797	0.770	NO	
4	2,3,7,8-TCDF	303.9016	1.000000	19.04	19.03	0.997	69818.41	186.3200	186.3200		1.0269	0.790	0.770	NO	
5	Total TCDFs	303.9016	1.000000		21.44	0.997		186.3200	186.3200		1.0269				
6															
7	13C-2,3,7,8-TCDD	331.9368	1.000000	19.82	19.82	0.909	530325.88	2123.3526	2123.3526	106.2	3.6108	0.821	0.770	NO	
8	2,3,7,8-TCDD	319.8965	1.000000	19.85	19.82	1.035	50628.70	184.5409	184.5409		0.9624	0.811	0.770	NO	
9	Total TCDDs	319.8965	1.000000		22.69	1.035		184.5409	184.5409		0.9624				
10															
11	37CL-2,3,7,8-TCDD	327.8847	1.000000	19.85	19.83	0.596	69793.53	426.2036	0.0000	53.3	1.0159				
12															
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000000	24.84	24.81	1.024	600597.33	2136.0063	2136.0063	106.8	3.9053	1.614	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000000	24.87	24.85	1.092	152080.39	463.9207	463.9207		2.0081	1.612	1.550	NO	
15	13C-2,3,4,7,8-PeCDF	351.9000	1.000000	26.39	26.38	1.031	581045.25	2052.5792	2052.5792	102.6	3.8790	1.583	1.550	NO	
16	2,3,4,7,8-PeCDF	339.8597	1.000000	26.42	26.39	1.057	145364.56	473.3568	473.3568		2.2286	1.582	1.550	NO	
17	Total F2 PeCDFs	339.8597	1.000000		34.47	1.074		937.2774	937.2774		2.1153				
18	Total F1 PeCDFs	339.8597	1.000000		36.56	1.074					0.7073				
19															
20	13C-1,2,3,7,8-PeCDD	367.8949	1.000000	27.24	27.20	0.735	424586.80	2103.6235	2103.6235	105.2	2.9631	1.542	1.550	NO	
21	1,2,3,7,8-PeCDD	355.8546	1.000000	27.27	27.26	0.960	91987.79	451.4835	451.4835		1.8947	1.606	1.550	NO	
22	Total PeCDDs	355.8546	1.000000		31.10	0.960		451.4835	451.4835		1.8947				
23															
24	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000000	33.27	33.25	1.000	412690.03	2000.0000	2000.0000	100.0	2.5744	1.264	1.240	NO	
25															
26	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000000	32.13	32.12	1.046	442169.45	2047.8781	2047.8781	102.4	4.7408	0.524	0.510	NO	
27	1,2,3,4,7,8-HxCDF	373.8208	1.000000	32.14	32.14	1.313	143739.06	495.3173	495.3173		1.1360	1.334	1.240	NO	
28	13C-1,2,3,6,7,8-HxCDF	383.8639	1.000000	32.24	32.24	1.257	563820.70	2174.2054	2174.2054	108.7	3.9473	0.532	0.510	NO	
29	1,2,3,6,7,8-HxCDF	373.8208	1.000000	32.25	32.25	1.198	159255.71	471.4026	471.4026		1.0479	1.234	1.240	NO	
30	13C-2,3,4,6,7,8-HxCDF	383.8639	1.000000	32.79	32.79	1.132	506305.00	2168.1758	2168.1758	108.4	4.3835	0.541	0.510	NO	
31	2,3,4,6,7,8-HxCDF	373.8208	1.000000	32.80	32.80	1.251	143249.22	452.3978	452.3978		0.9460	1.259	1.240	NO	

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:31:47 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340, Task:

#	Name	Trace	Sample Size	RT	Pred.RT	RRF	Area/Resp	Conc.	EMPC	%Rec	EDL	Ratio	Pred.Ratio	Ratio	Mod.Date
32	13C-1,2,3,7,8,9-HxCDF	383.8639	1.000000	33.43	33.45	1.027	428173.47	2020.3112	2020.3112	101.0	4.8299	0.544	0.510	NO	
33	1,2,3,7,8,9-HxCDF	373.8208	1.000000	33.44	33.43	1.220	130229.37	498.6113	498.6113		1.1708	1.295	1.240	NO	
34	Total HxCDFs	373.8208	1.000000		0.00	1.245		1917.7290	1917.7290		1.0667				
35															
36	13C-1,2,3,4,7,8-HxCDD	401.8559	1.000000	32.93	32.93	0.870	372301.28	2073.7066	2073.7066	103.7	2.9589	1.264	1.240	NO	
37	1,2,3,4,7,8-HxCDD	389.8157	1.000000	32.94	32.93	1.013	87634.21	464.6317	464.6317		0.9787	1.267	1.240	NO	
38	13C-1,2,3,6,7,8-HxCDD	401.8559	1.000000	33.00	33.01	0.901	398558.97	2143.2002	2143.2002	107.2	2.8565	1.274	1.240	NO	
39	1,2,3,6,7,8-HxCDD	389.8157	1.000000	33.01	33.00	1.095	98578.57	451.7551	451.7551		0.9557	1.329	1.240	NO	
40	1,2,3,7,8,9-HxCDD	389.8157	1.000000	33.28	33.26	1.075	98067.26	473.4468	473.4468		0.9490	1.225	1.240	NO	
41	Total HxCDDs	389.8157	1.000000		0.00	1.061		1389.8337	1389.8337		0.9613				
42															
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000000	34.80	34.80	0.951	435885.47	2221.0925	2221.0925	111.1	5.0973	0.437	0.440	NO	
44	1,2,3,4,6,7,8-HpCDF	407.7818	1.000000	34.81	34.81	1.463	145579.14	456.6379	456.6379		1.0839	1.049	1.040	NO	
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	1.000000	35.95	35.95	0.827	352322.64	2063.5160	2063.5160	103.2	5.8689	0.436	0.440	NO	
46	1,2,3,4,7,8,9-HpCDF	407.7818	1.000000	35.97	35.96	1.414	116361.14	467.0713	467.0713		1.5578	1.073	1.040	NO	
47	Total HpCDFs	407.7818	1.000000		0.00	1.439		923.7092	923.7092		1.2941				
48															
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000000	35.63	35.62	0.846	372365.16	2133.5833	2133.5833	106.7	8.8568	1.079	1.040	NO	
50	1,2,3,4,6,7,8-HpCDD	423.7766	1.000000	35.64	35.64	1.055	90395.93	460.4155	460.4155		1.1971	1.080	1.040	NO	
51	Total HpCDDs	423.7766	1.000000		0.03	1.055		460.4155	460.4155		1.1971				
52															
53	13C-OCDD	469.7779	1.000000	38.19	38.20	0.673	587061.03	4229.3267	4229.3267	105.7	5.5372	0.895	0.890	NO	
54	OCDF	441.7428	1.000000	38.31	38.30	1.486	202443.13	928.1801	928.1801		1.7873	0.965	0.890	NO	
55	OCDD	457.7377	1.000000	38.20	38.20	1.151	157707.30	933.3634	933.3634		2.4036	0.976	0.890	NO	
56															
57															
58	Function 1 PFK	330.97920	1.000000		15.71	12269....					0.0000				
59	Function 3 PFK	380.97600	1.000000		33.18	6224.7...					0.0000				
60	Function 2 PFK	342.97920	1.000000		27.81	8388.7...					0.0000				
61	Function 4 PFK	430.97290	1.000000		35.59	6928.9...					0.0000				
62	Function 5 PFK	442.97280	1.000000		39.76										
63	TCDF PCDPE	375.8364	1.000000	16.65	16.74		53.70								
64	F1 PeCDF PCDPE	409.79740	1.000000	21.02	21.03		49.48								
65	F2 PeCDF PCDPE	409.7974	1.000000	28.46	28.45	24.689	46.47	1.8821		188.2	2.6733				
66	HXCDF PCDPE	445.7555	1.000000		34.50										

Quantify Sample Report **MassLynx 4.1**

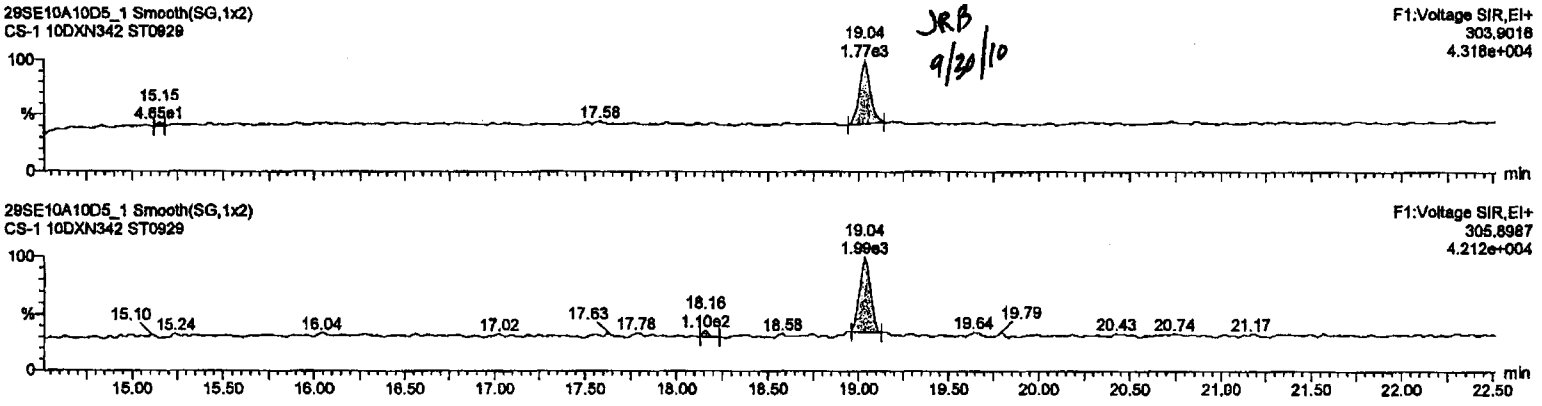
Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

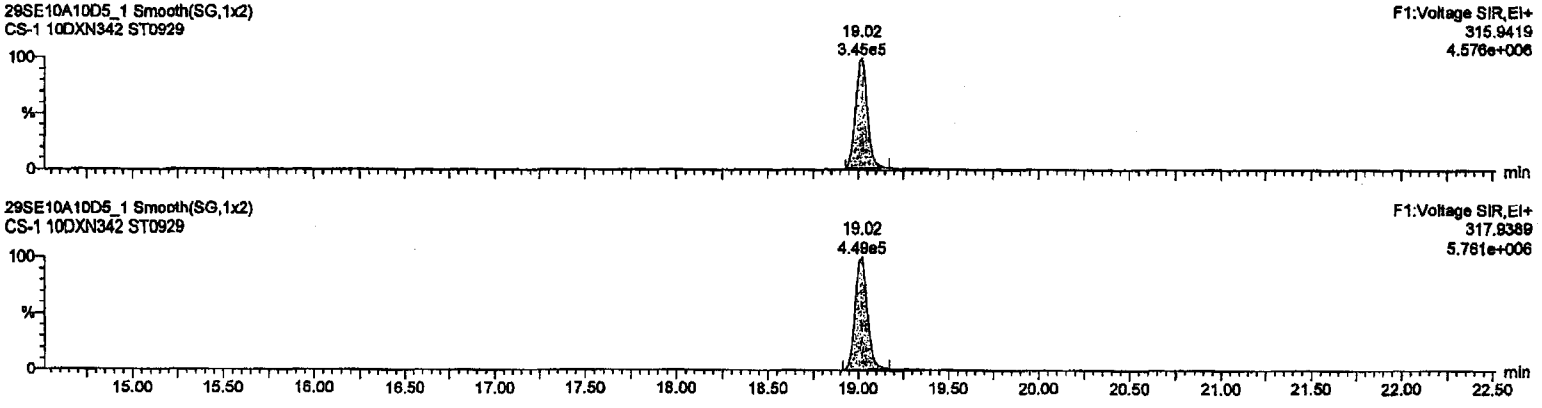
Method: C:\MassLynx\Default.PRO\MethDB\829010D5.mdb 29 Sep 2010 13:52:42
Calibration: 30 Sep 2010 10:11:18

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

TCDFs



13C-TCDF



Quantify Compound Report **MassLynx 4.1** Page 1 of 1

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

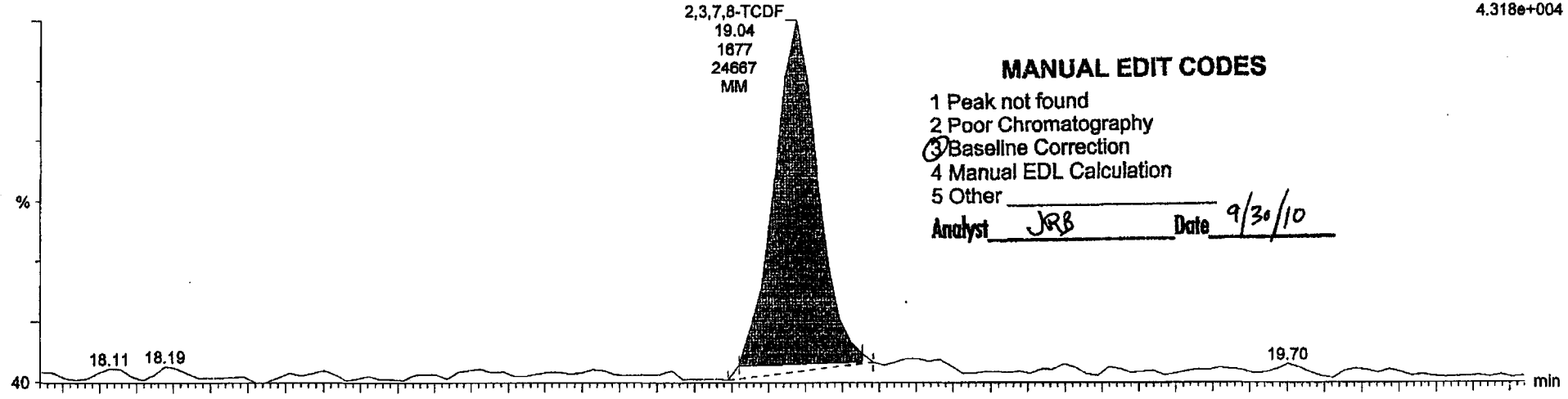
Last Altered: Thursday, September 30, 2010 10:13:51 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:15:41 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\829010D5.mdb 29 Sep 2010 13:52:42
Calibration: 30 Sep 2010 10:13:51

Sample Name: 29SE10A10D5_1

29SE10A10D5_1 Smooth(SG,1x2)
CS-1 10DXN342 ST0929

F1:Voltage SIR,EI+
303.9016
4.318e+004



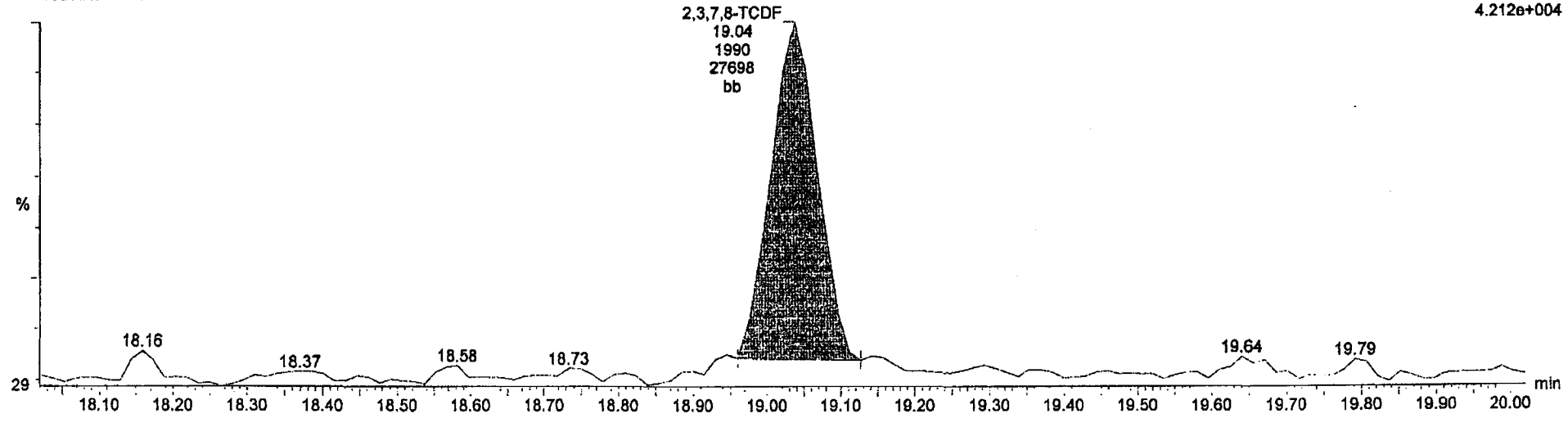
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
(3) Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst JRB Date 9/30/10

29SE10A10D5_1 Smooth(SG,1x2)
CS-1 10DXN342 ST0929

F1:Voltage SIR,EI+
305.8987
4.212e+004



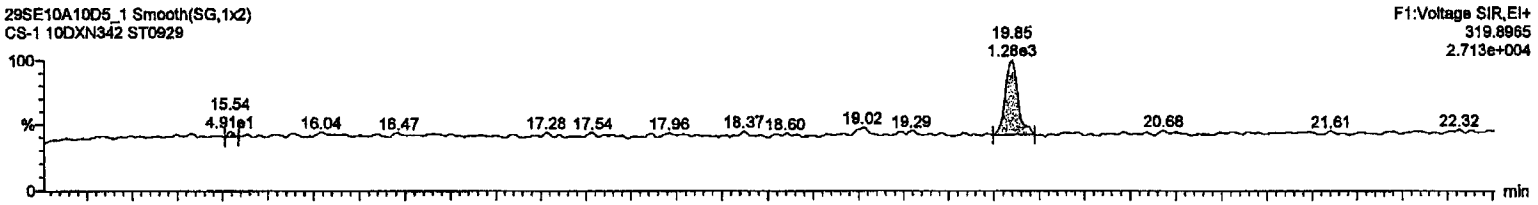
Quantify Sample Report **MassLynx 4.1**

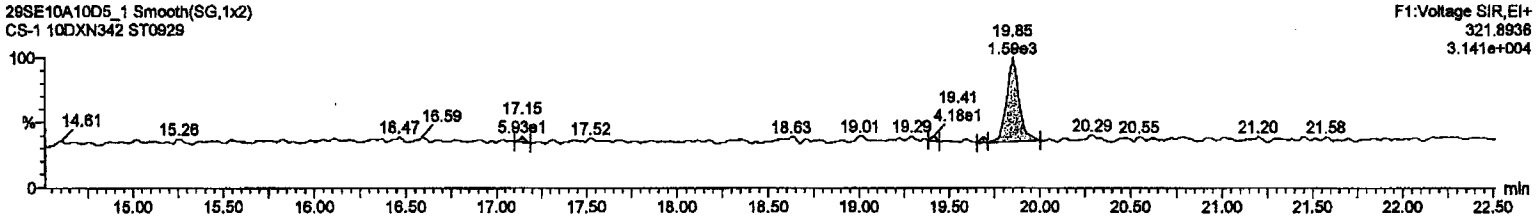
Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

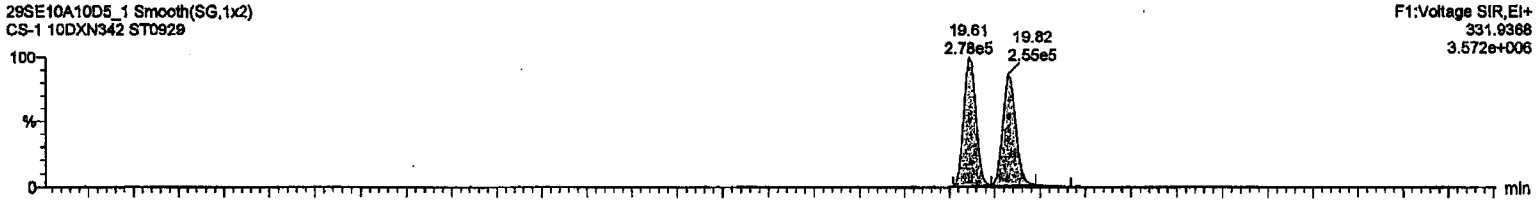
Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

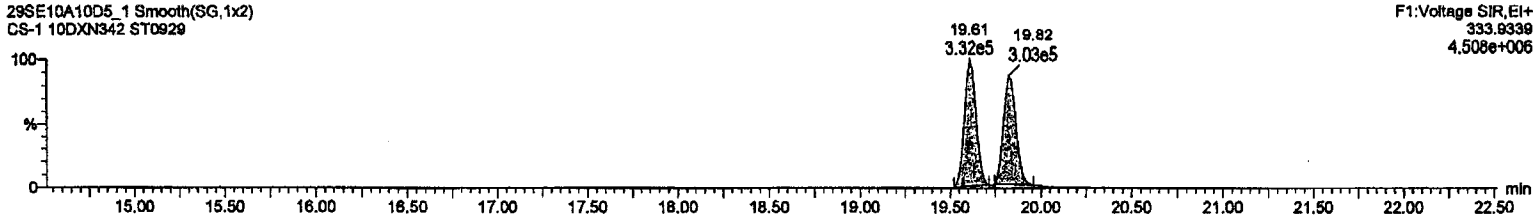
TCDDs





13C-TCDDs





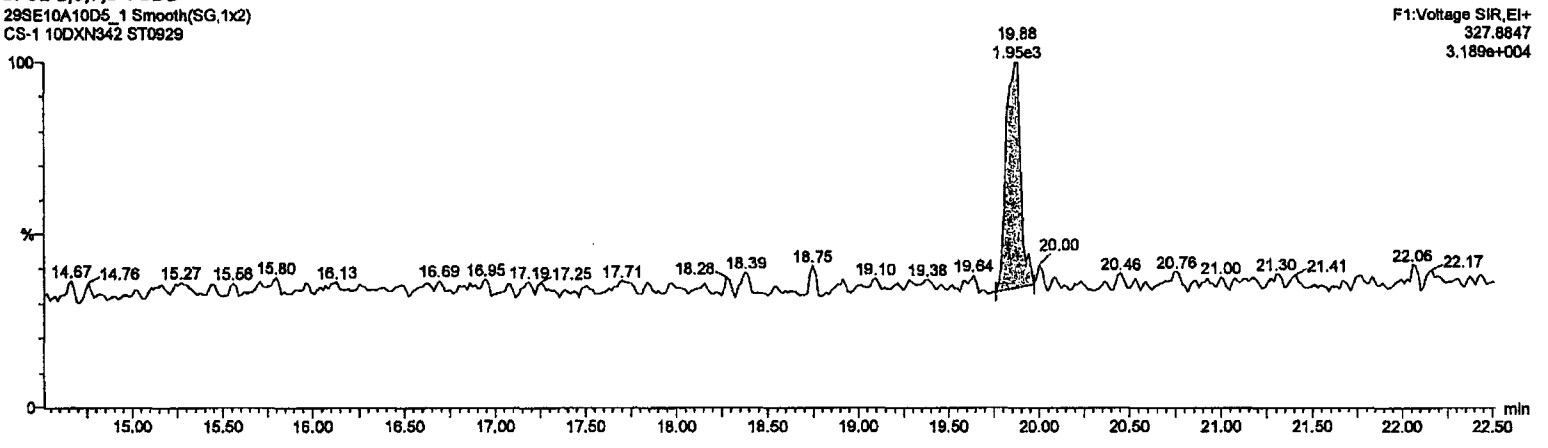
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

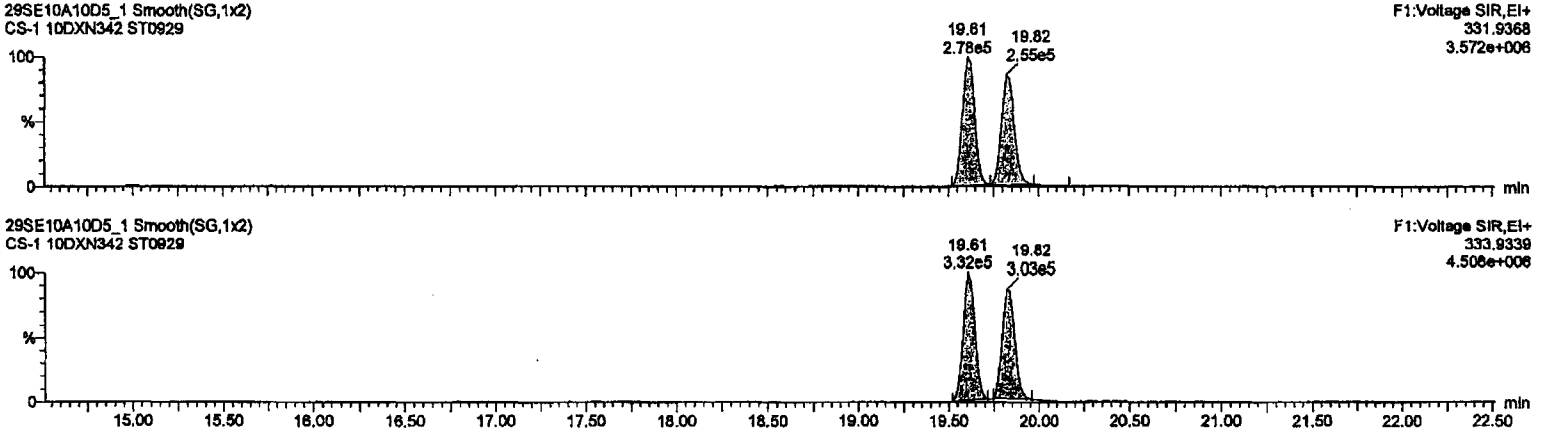
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

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



13C-TCDDs



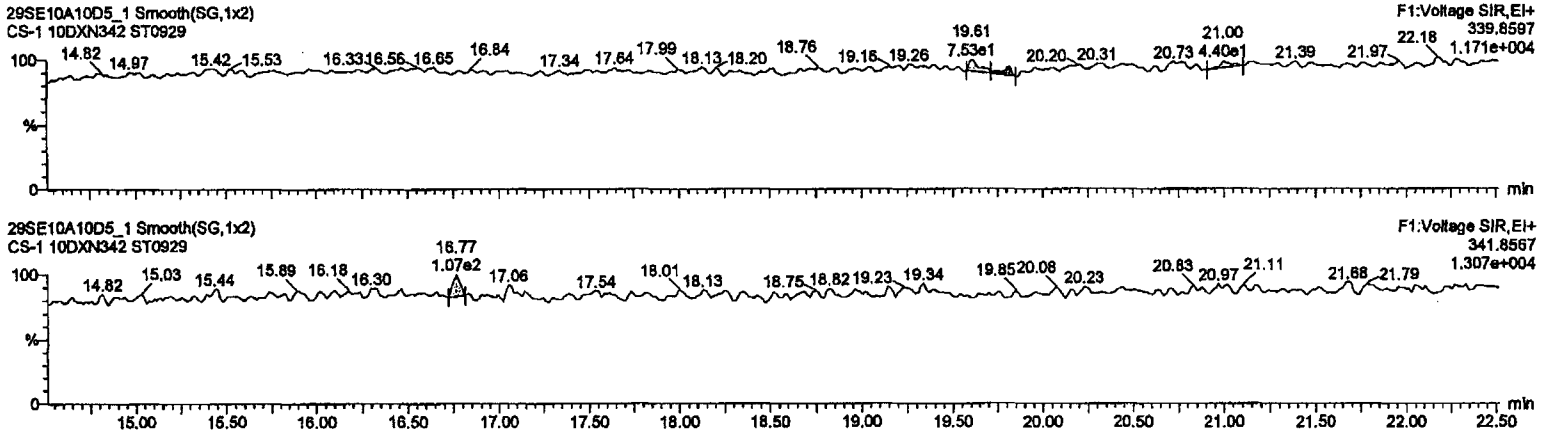
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

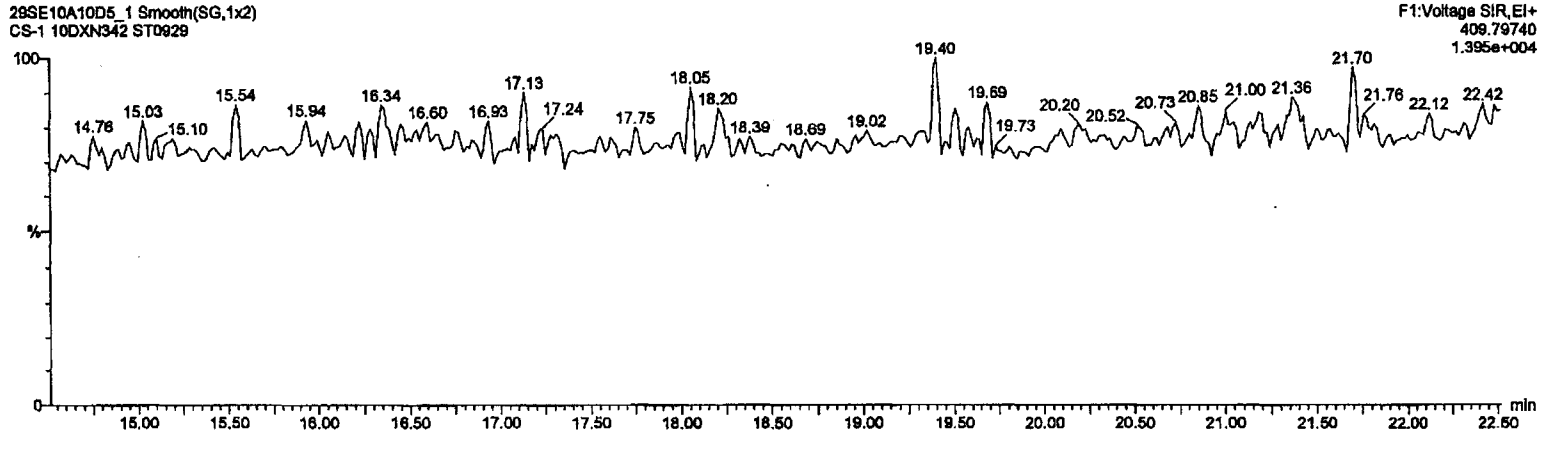
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

F1 PeCDFs



F1 PeCDF PCDPE



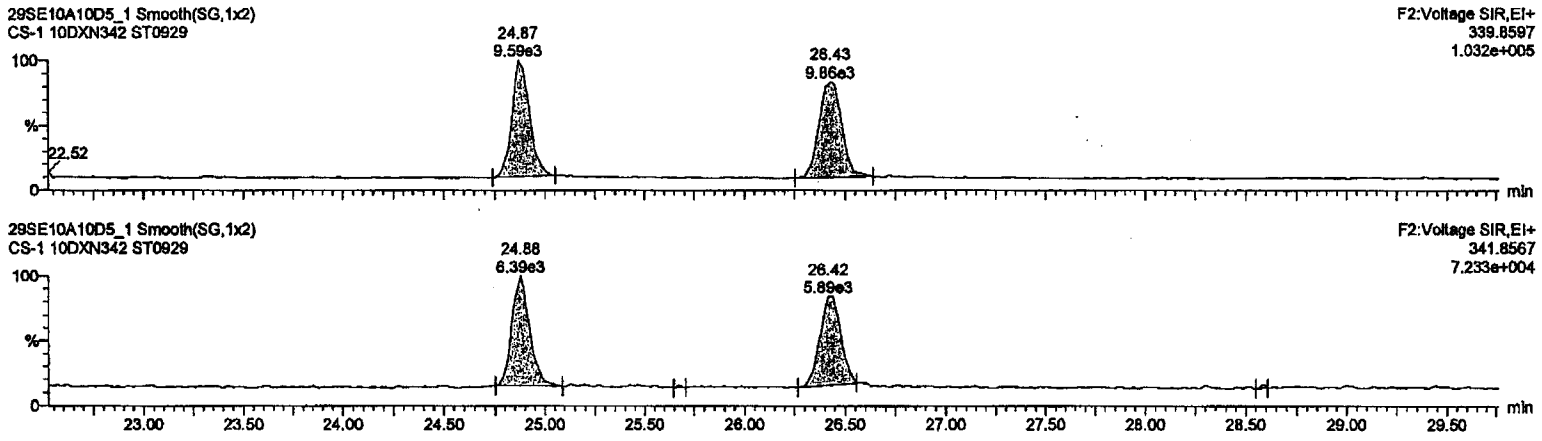
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

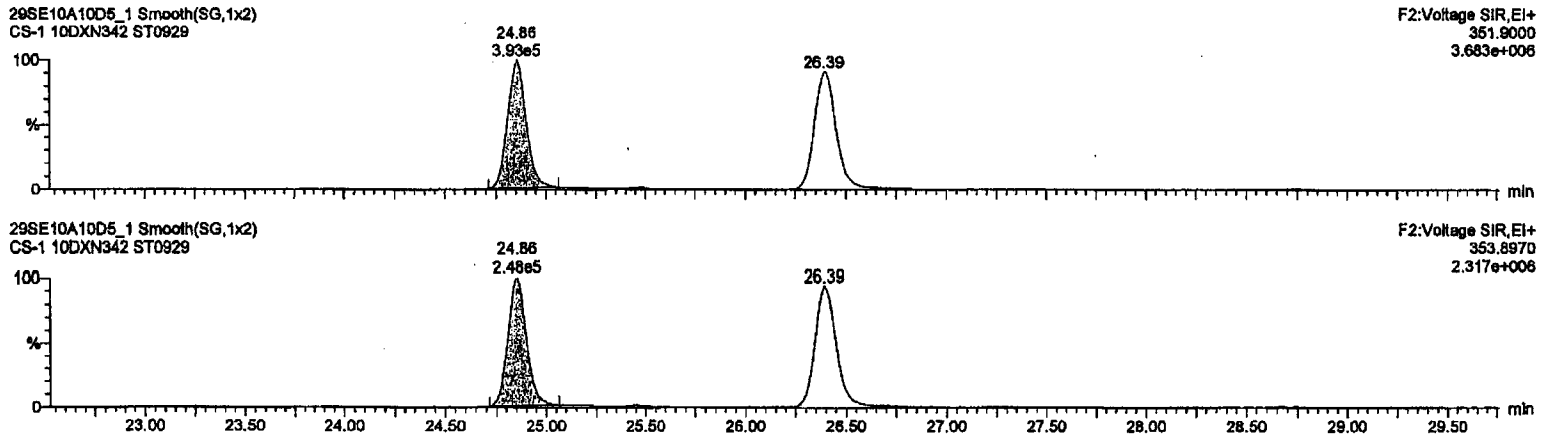
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

PeCDFs



13C-PeCDFs



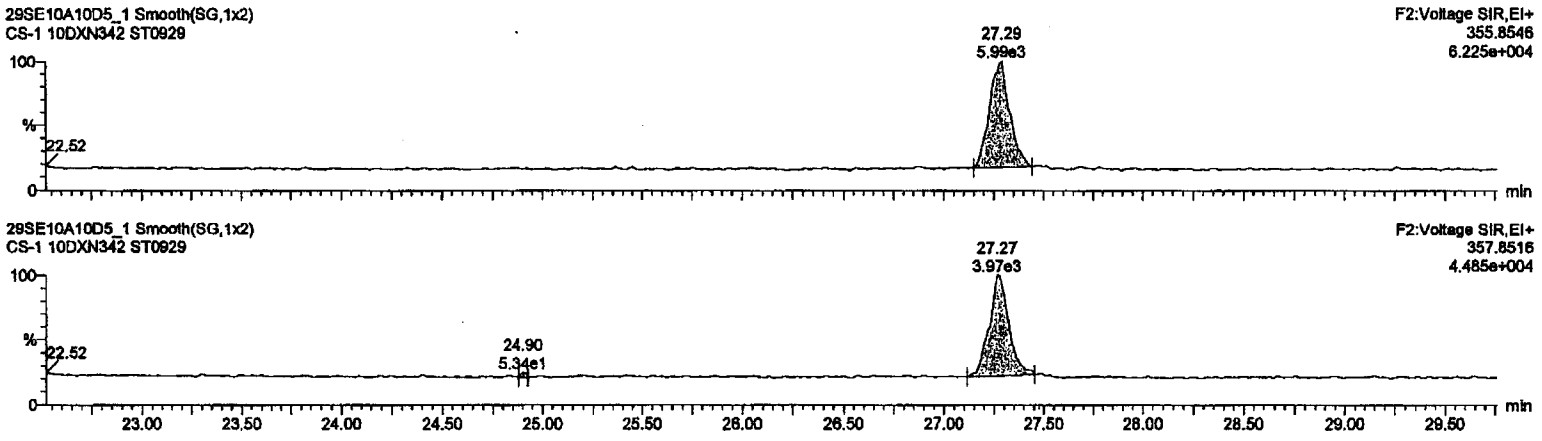
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

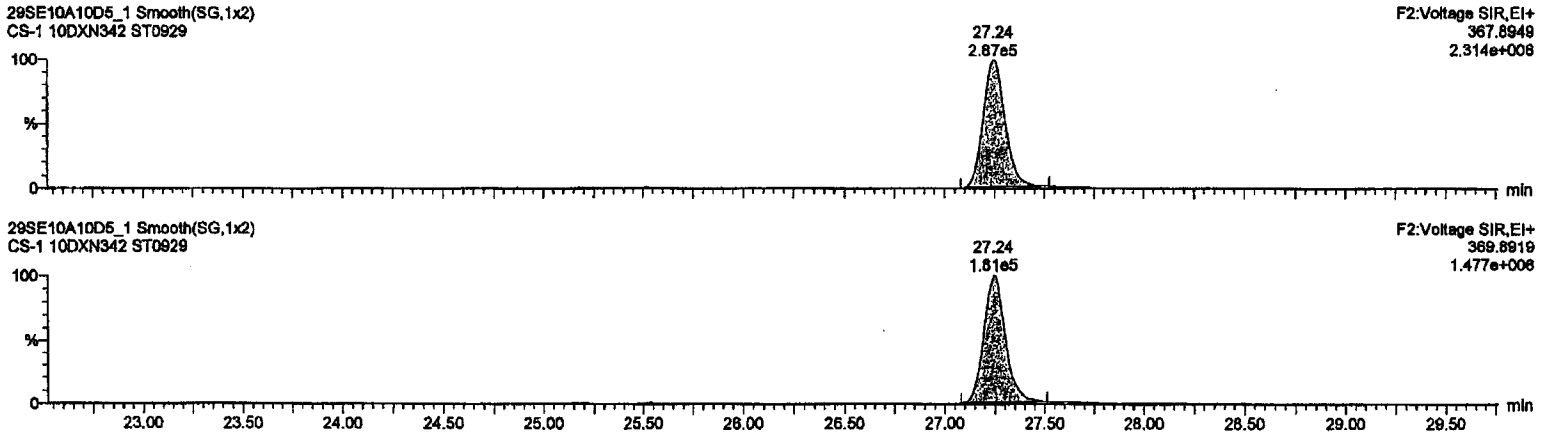
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

PeCDDs



13C-PeCDD



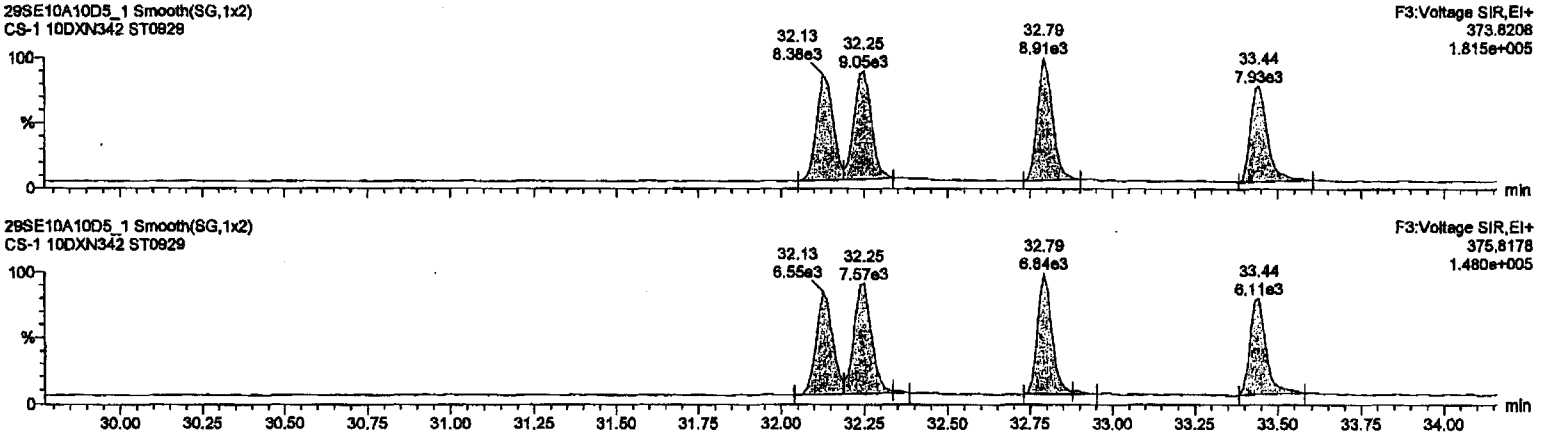
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

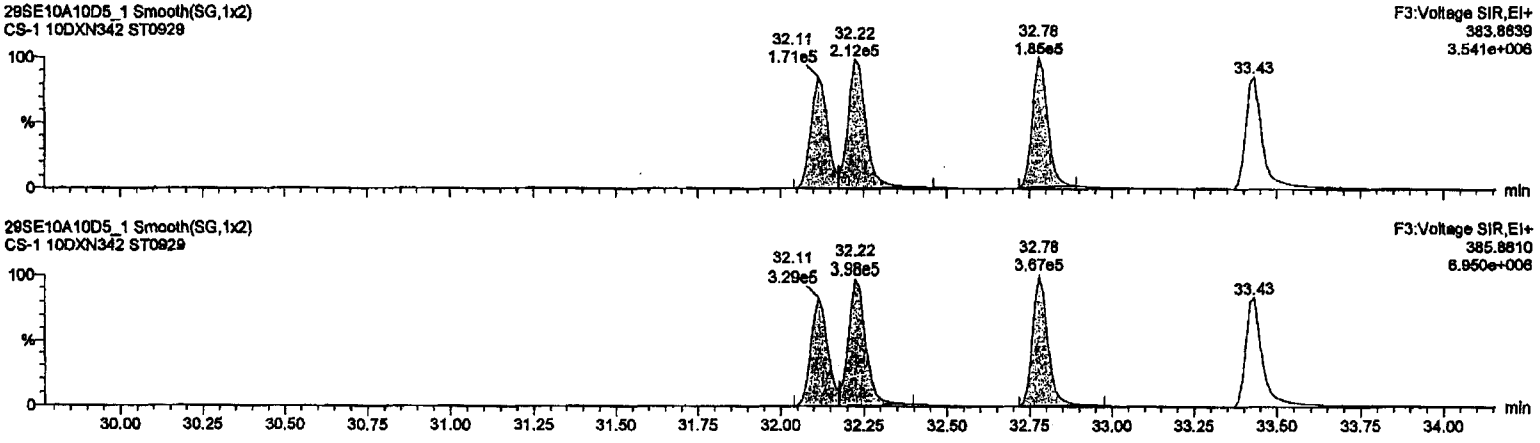
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

HxCDFs



13C-HxCDFs



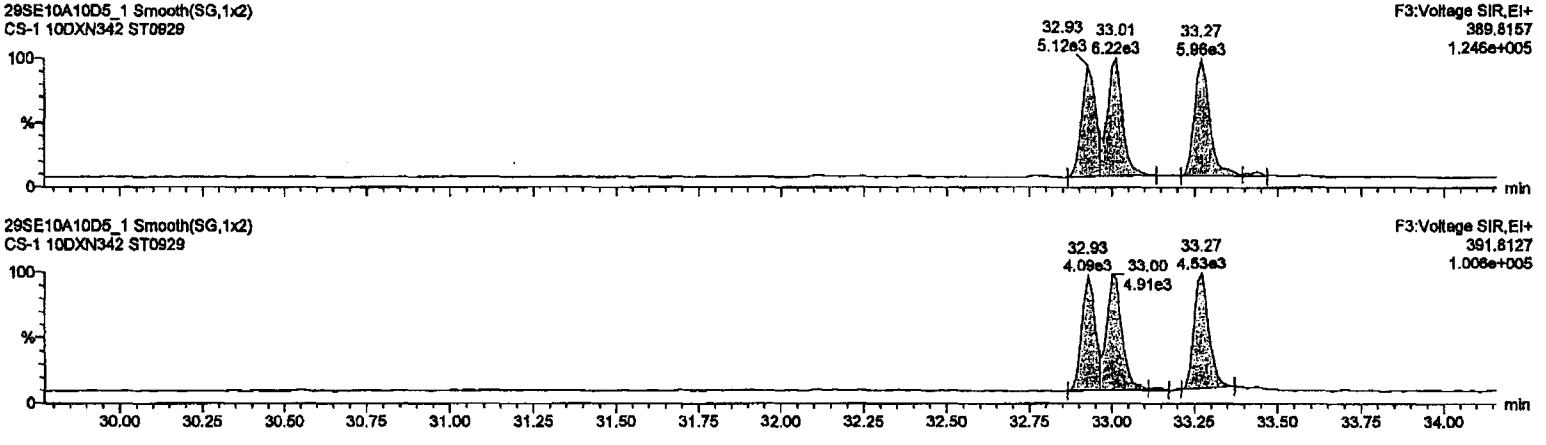
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

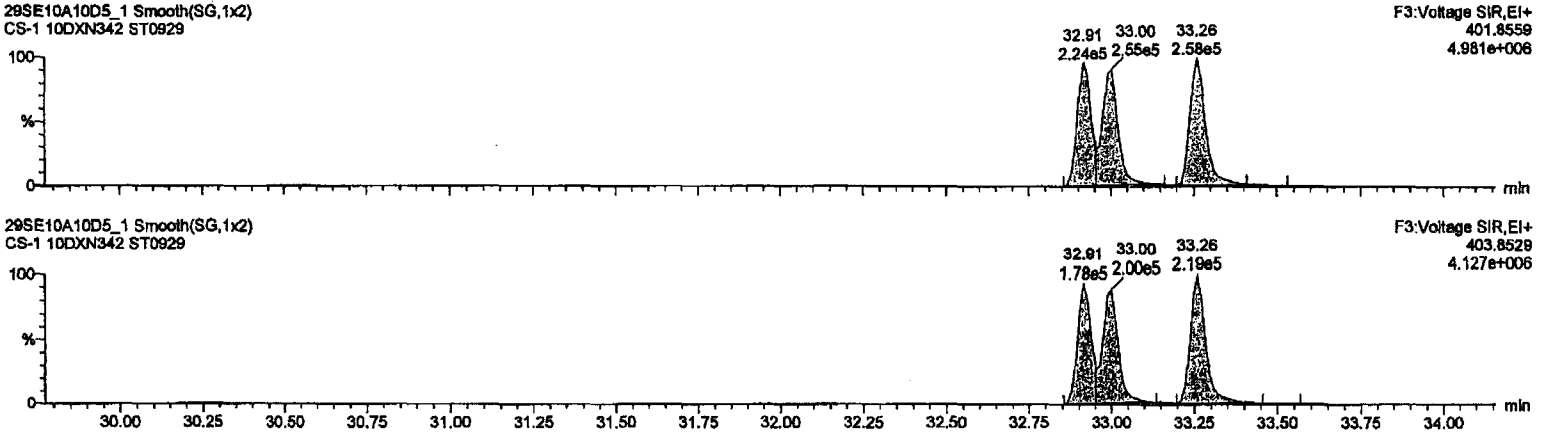
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

HxCDDs



13C-1,2,3,6,7,8-HxCDD



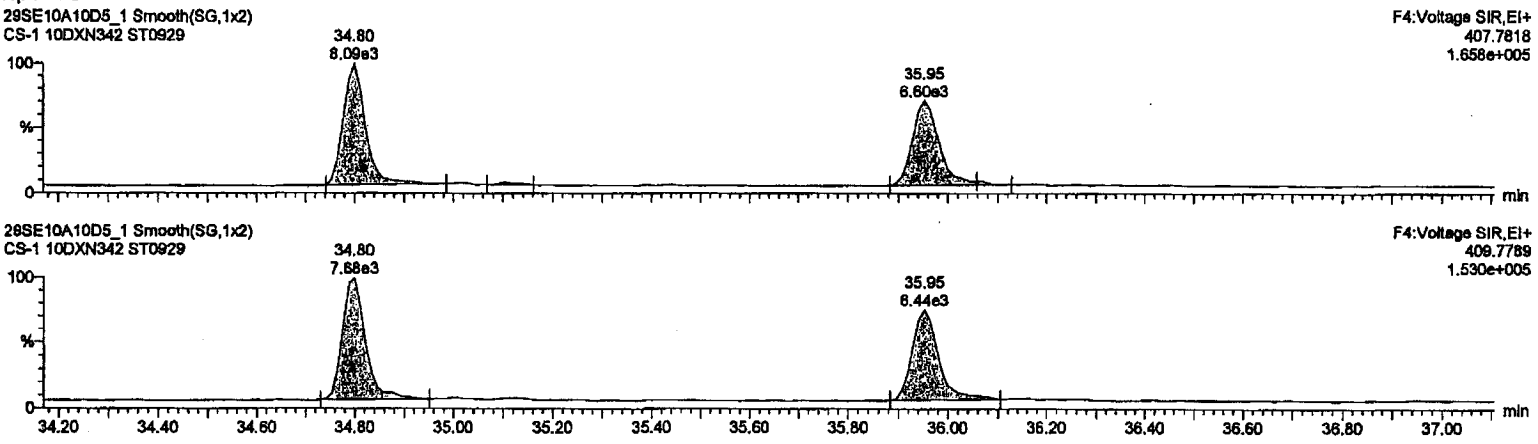
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

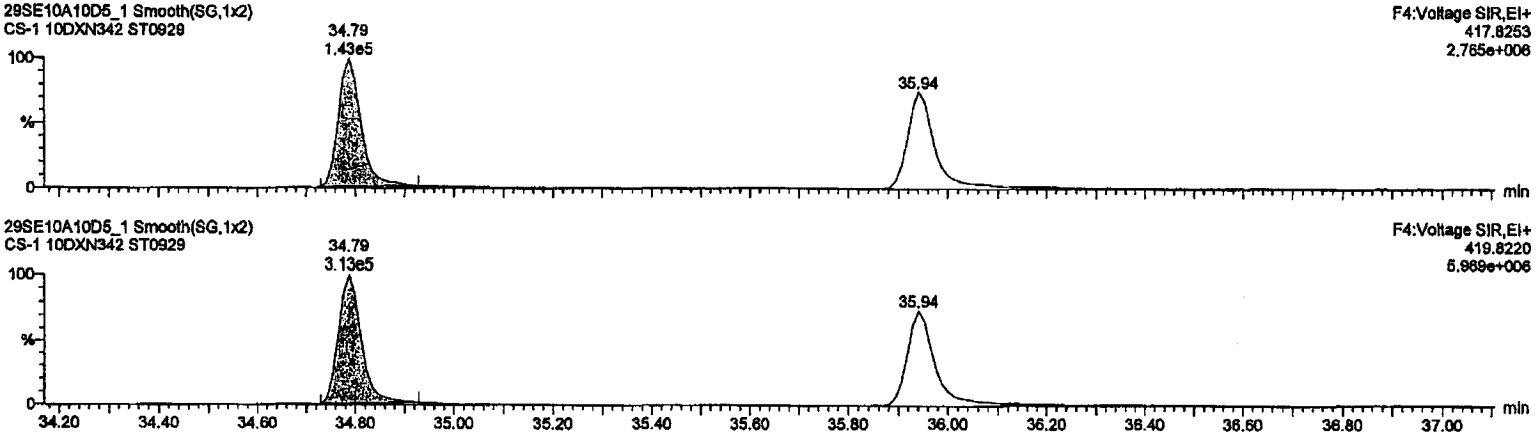
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

HpCDFs



13C-HpCDFs



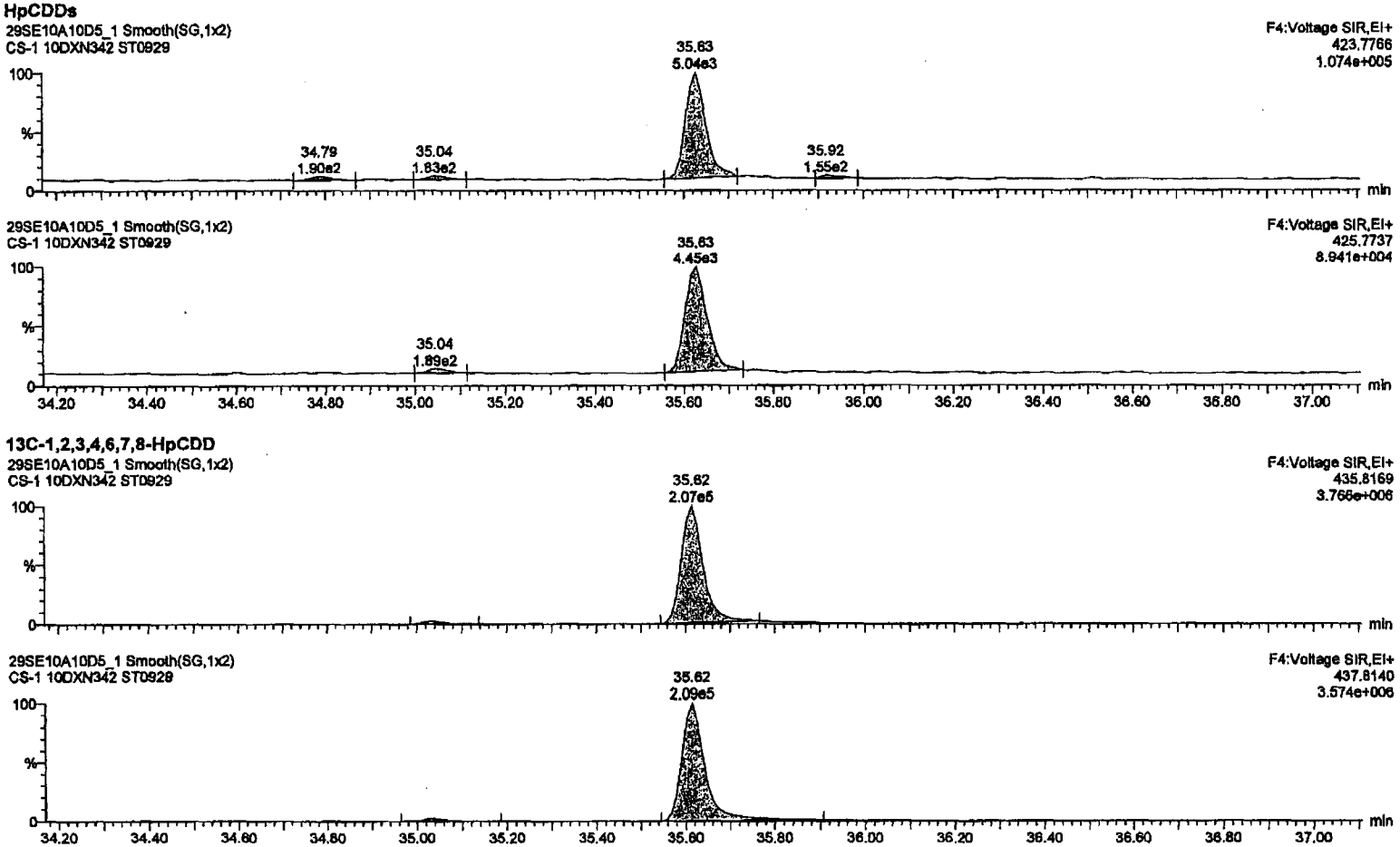
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD

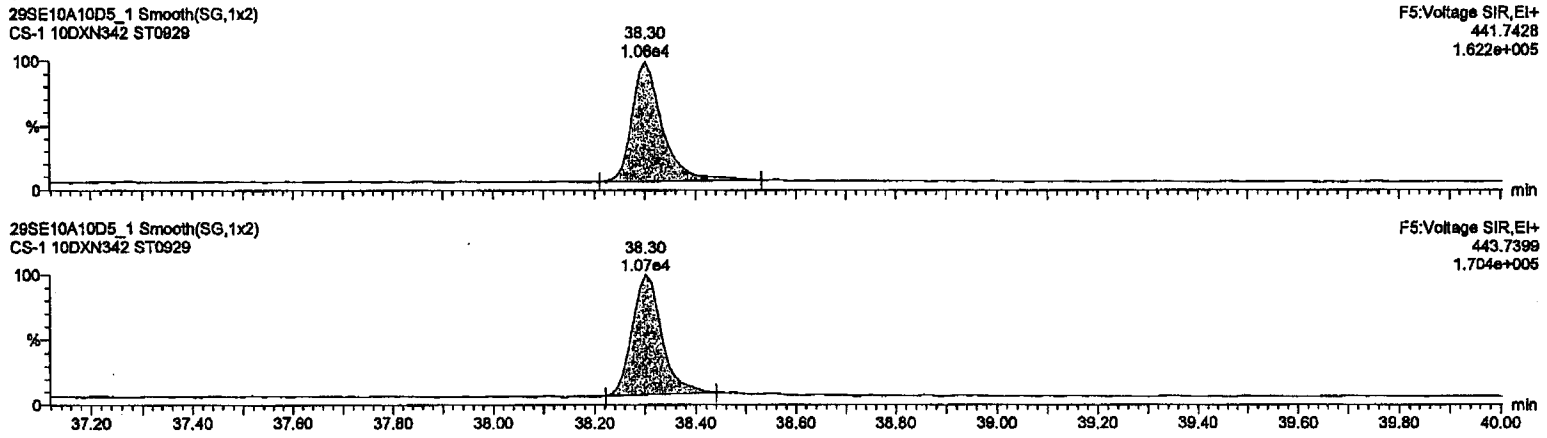
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

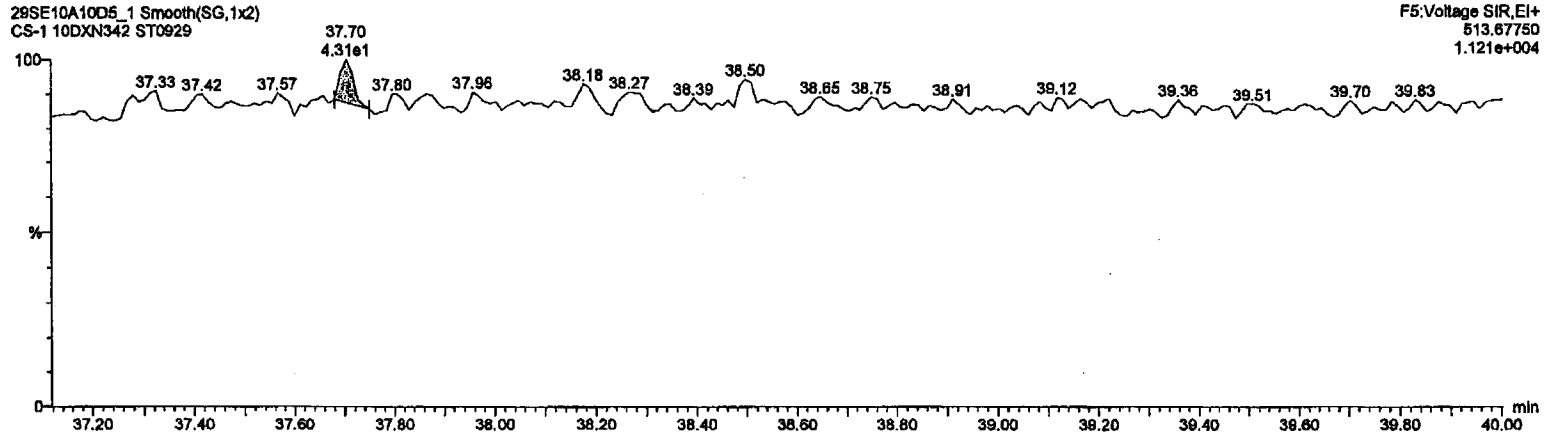
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

OCDFs



OCDF PCDPE



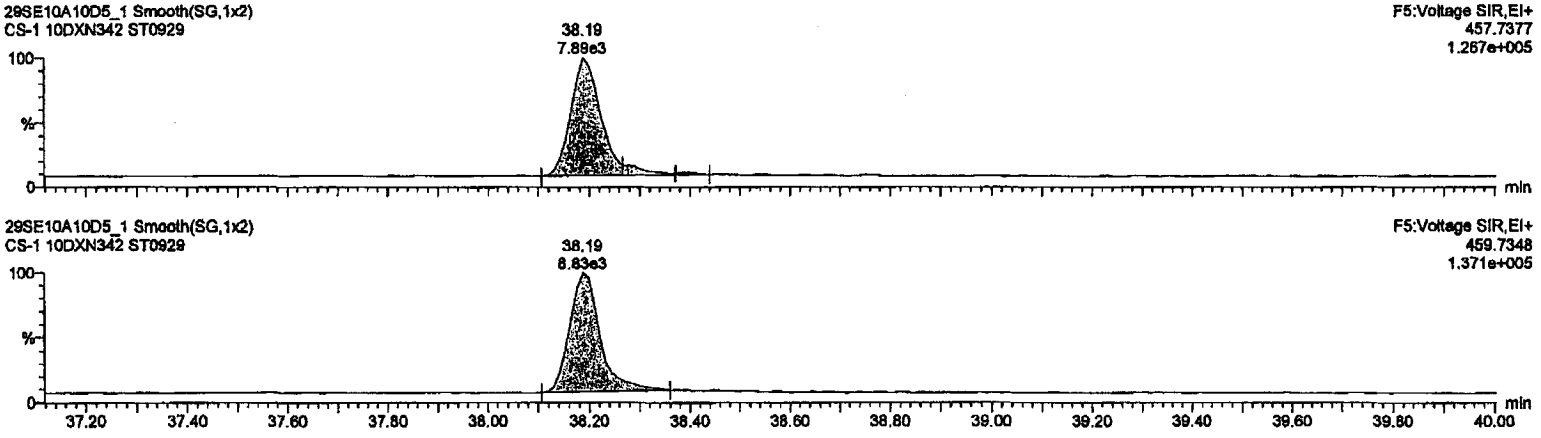
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

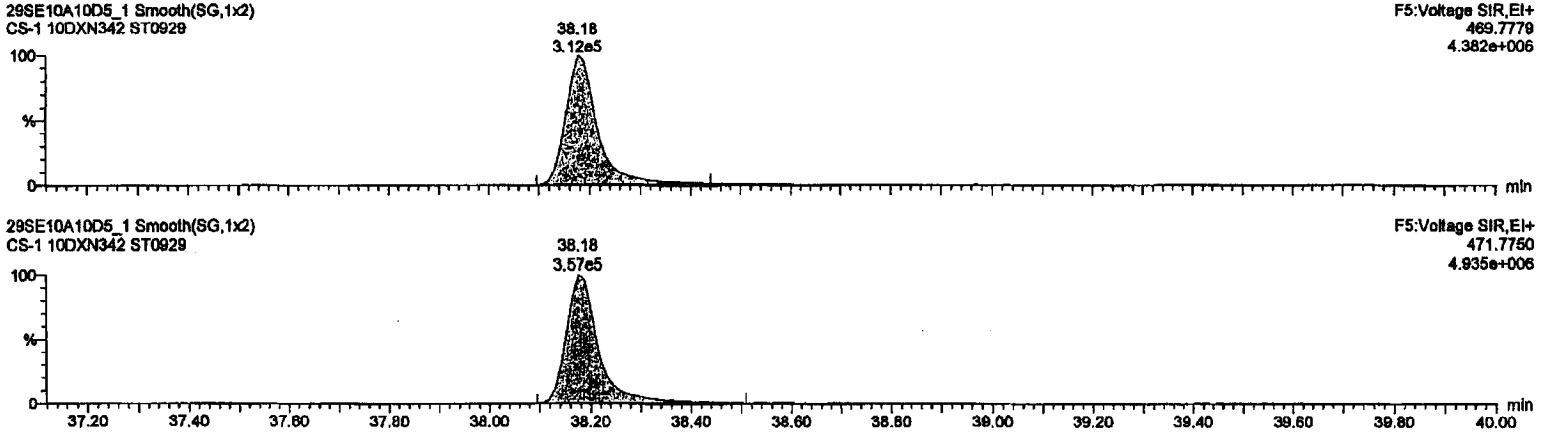
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

OCDD



13C-OCDD



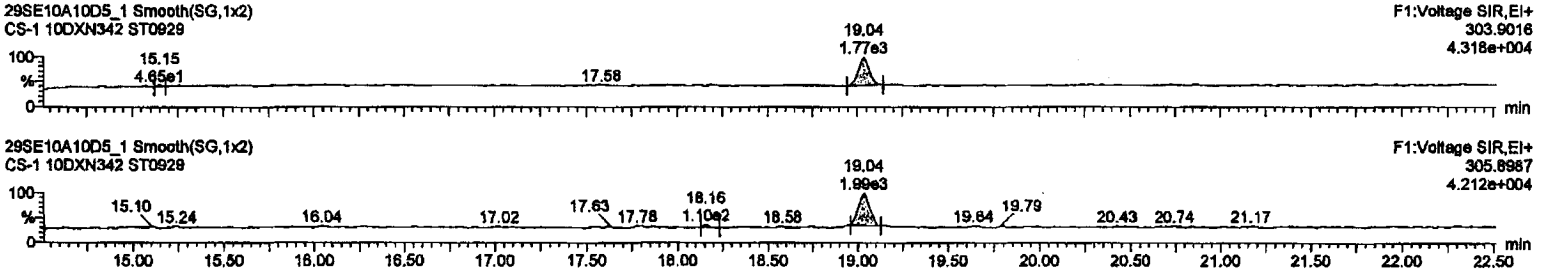
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

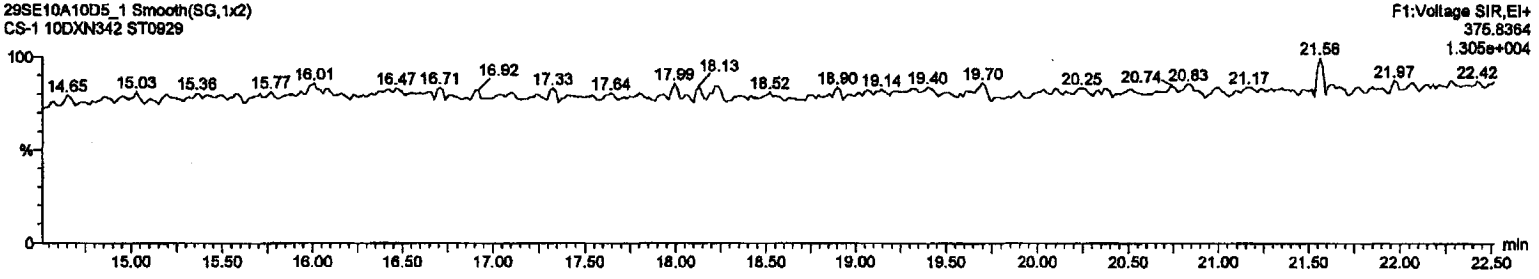
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

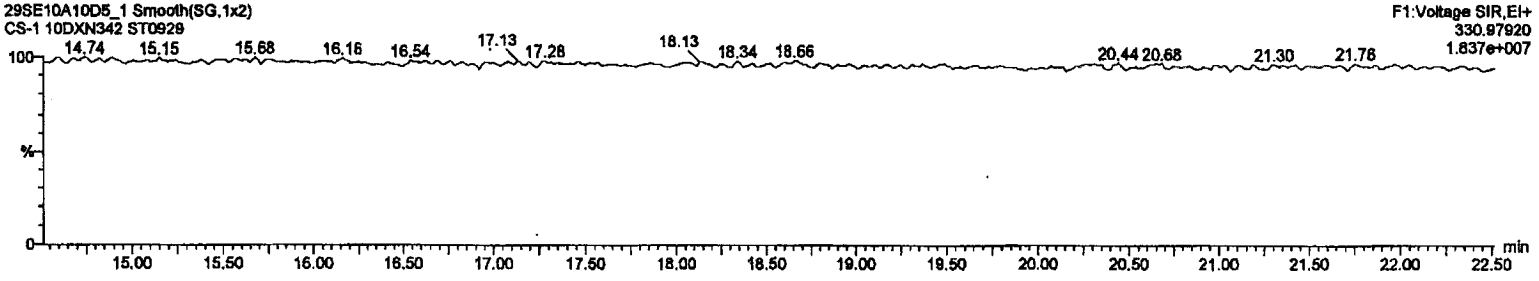
TCDFs



TCDF PCDPE



Function 1 PFK



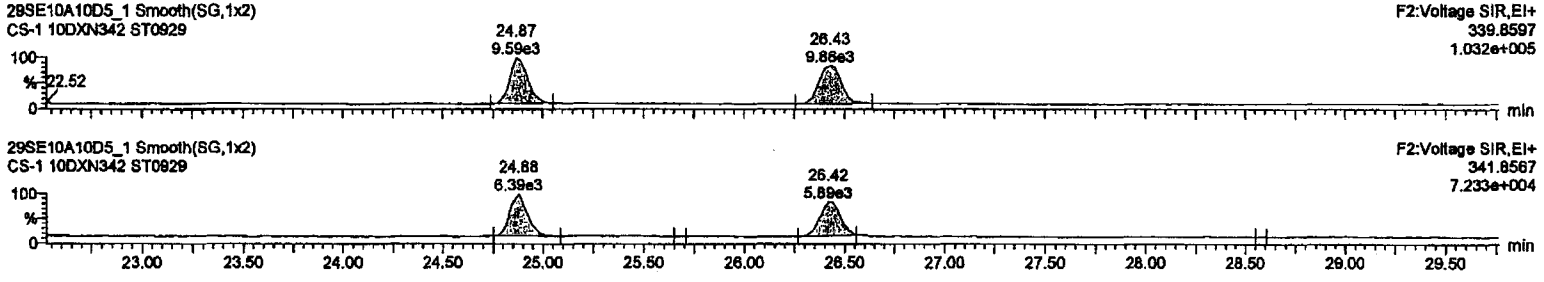
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

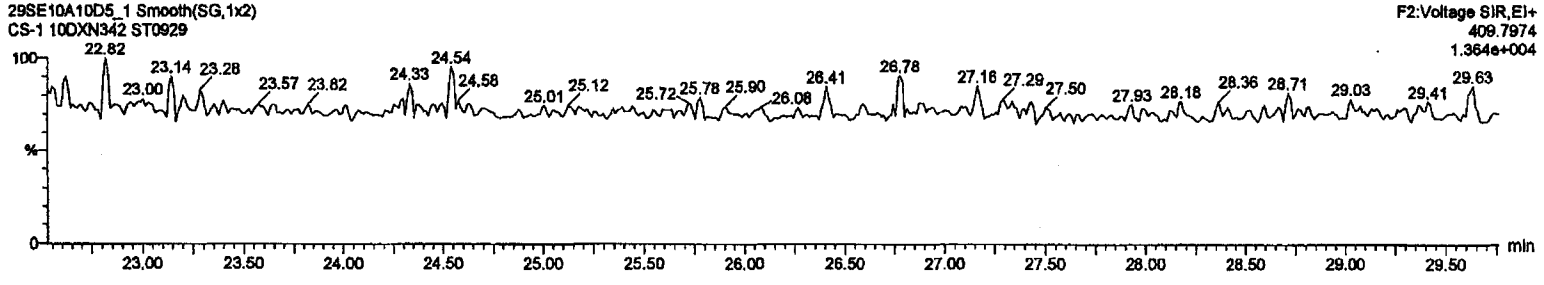
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

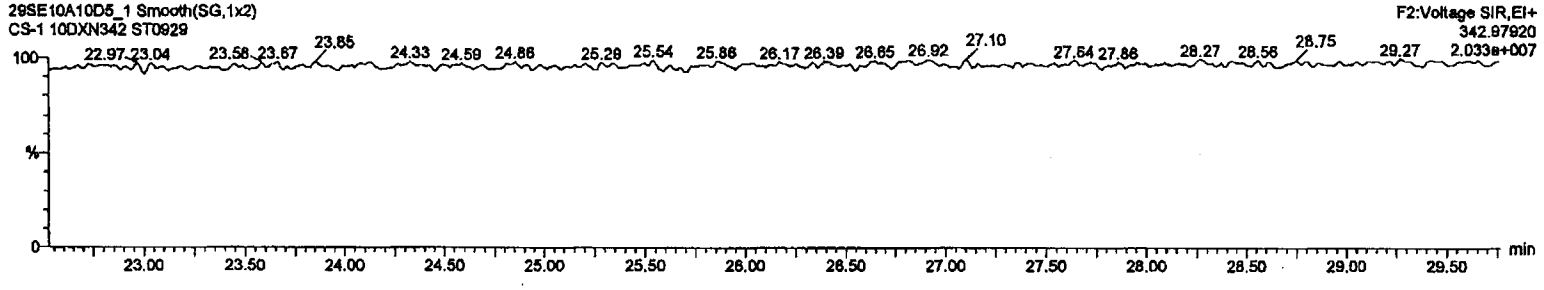
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



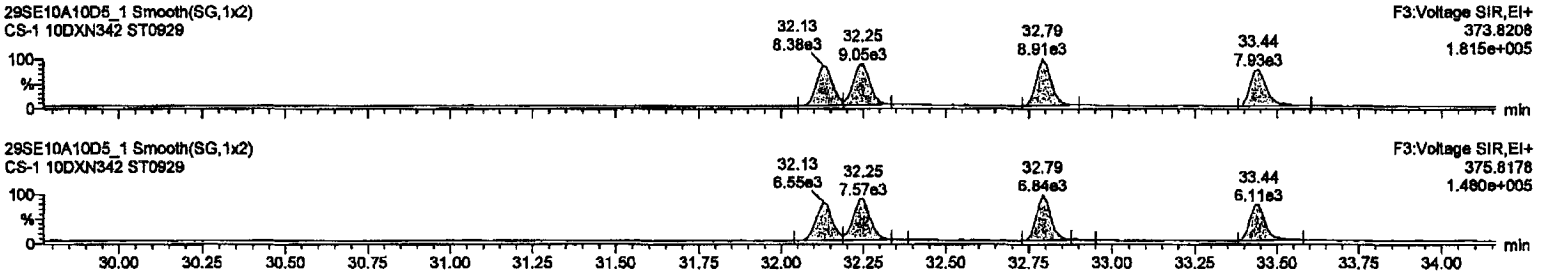
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

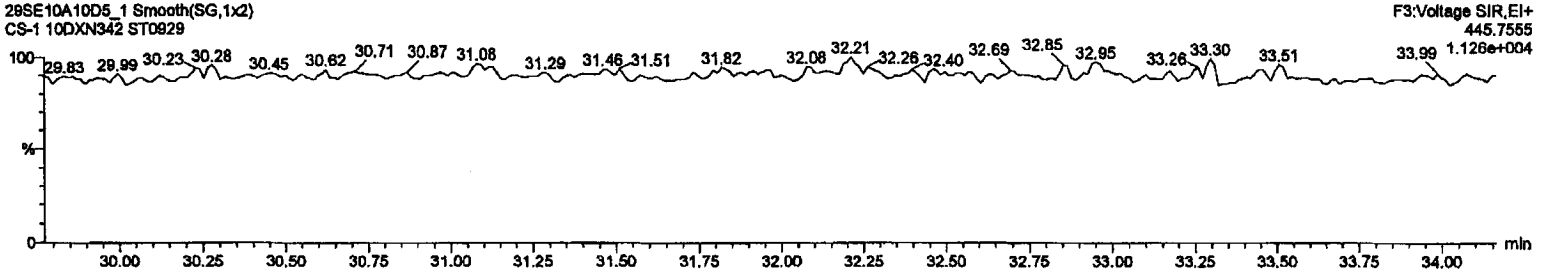
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

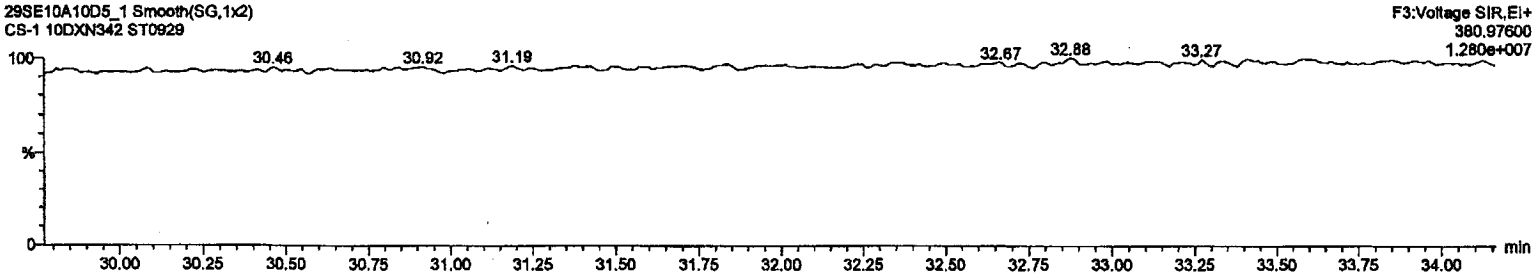
HxCDFs



HxCDF PCDPE



Function 3 PFK



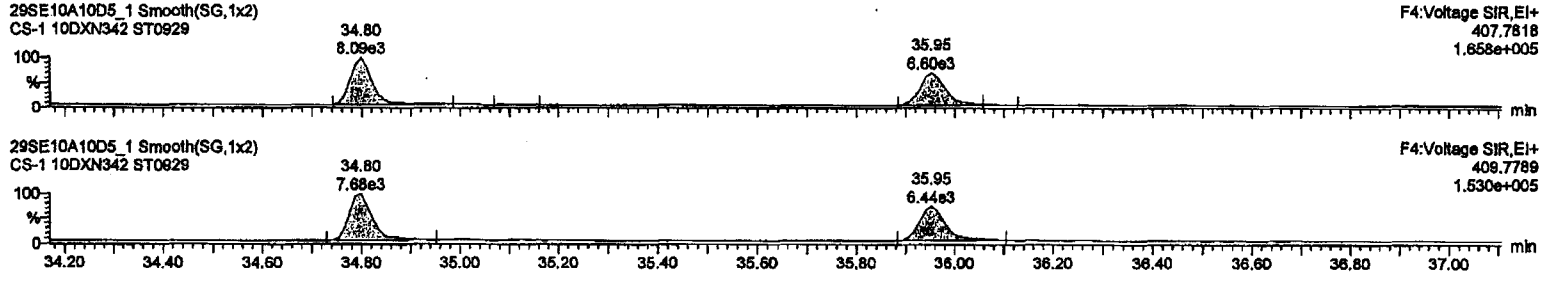
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

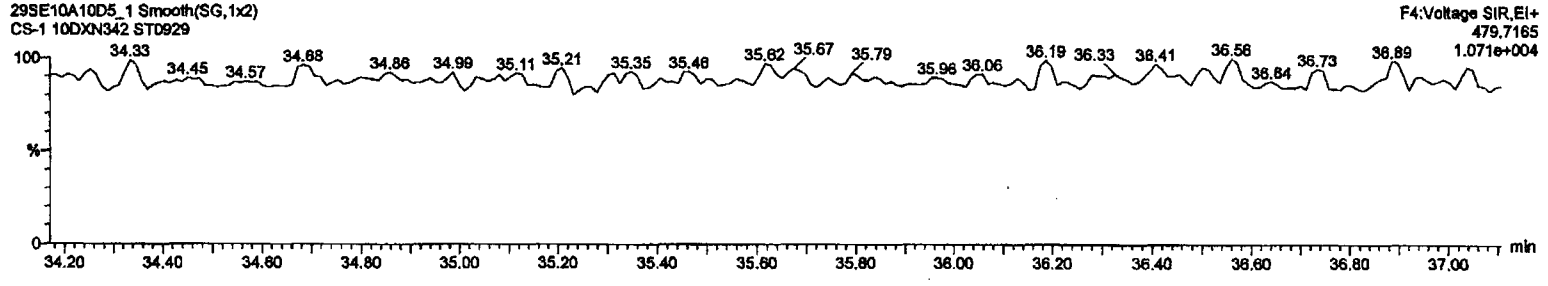
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

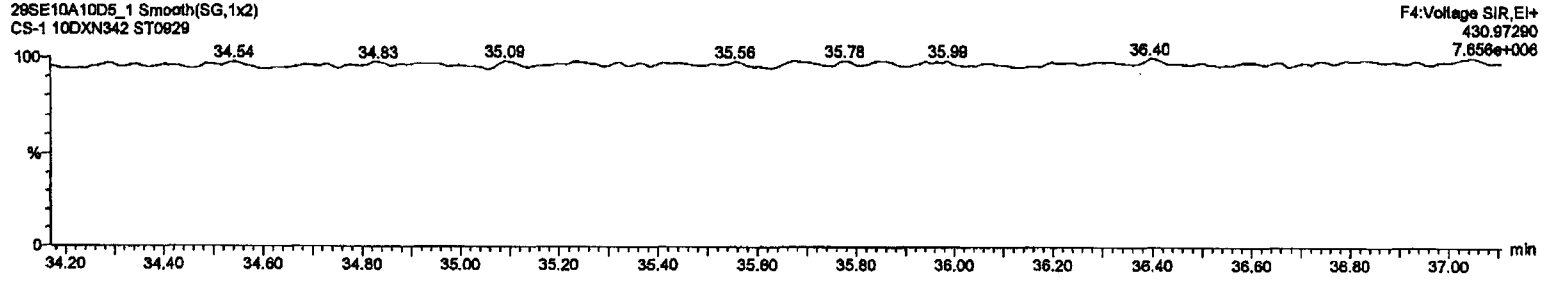
HpCDFs



HpCDF PCDPE



Function 4 PFK



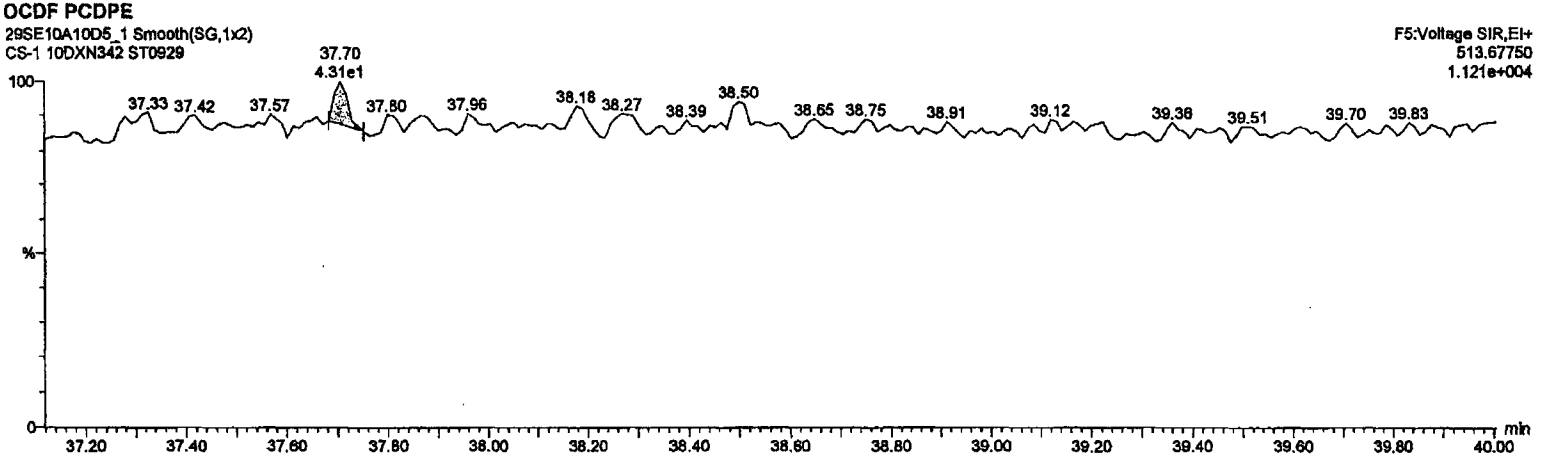
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

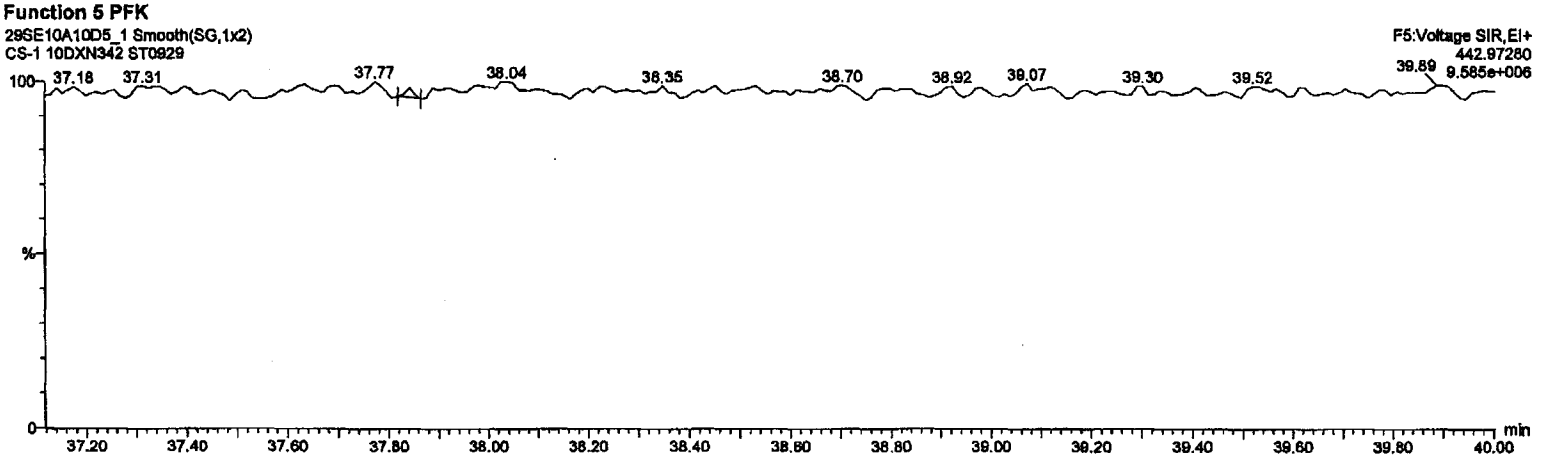
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_1, Date: 29-Sep-2010, Time: 18:52:36, ID: ST0929, Description: CS-1 10DXN342

OCDF PCDPE



Function 5 PFK



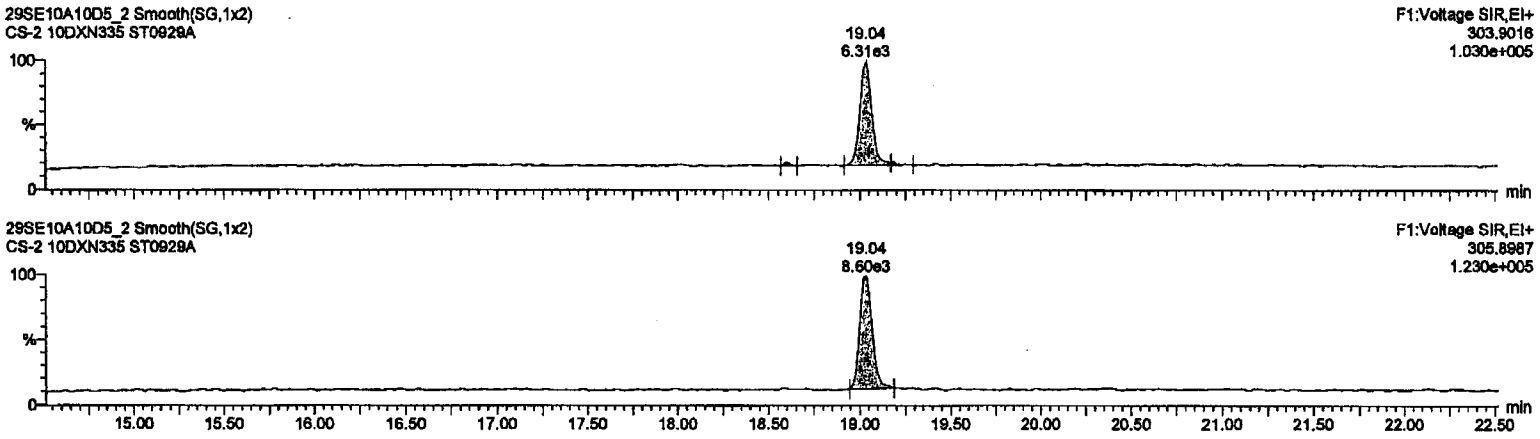
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

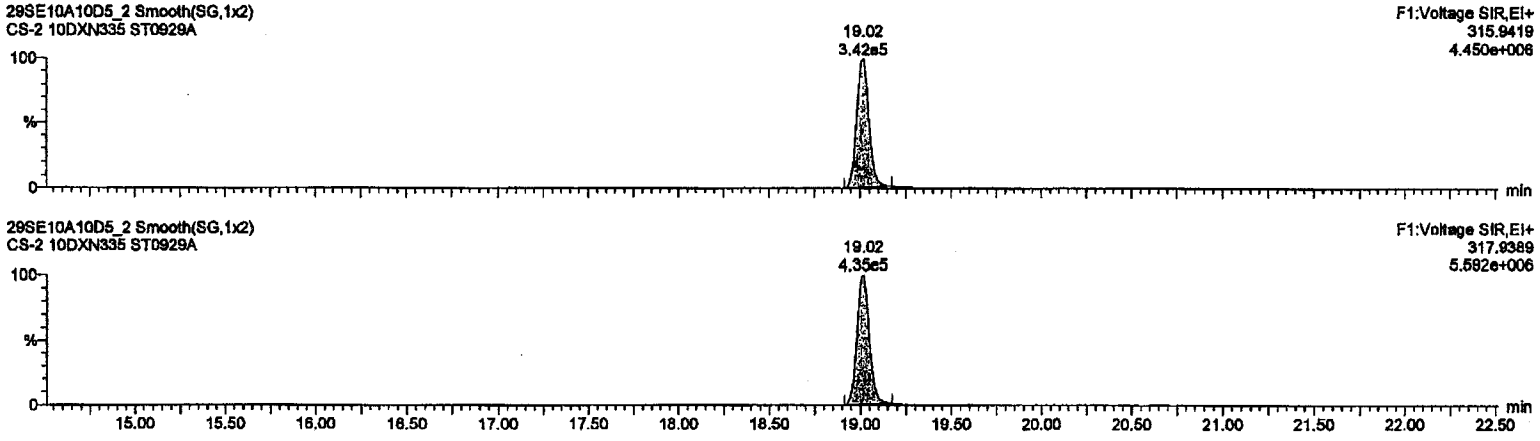
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

TCDFs



13C-TCDF



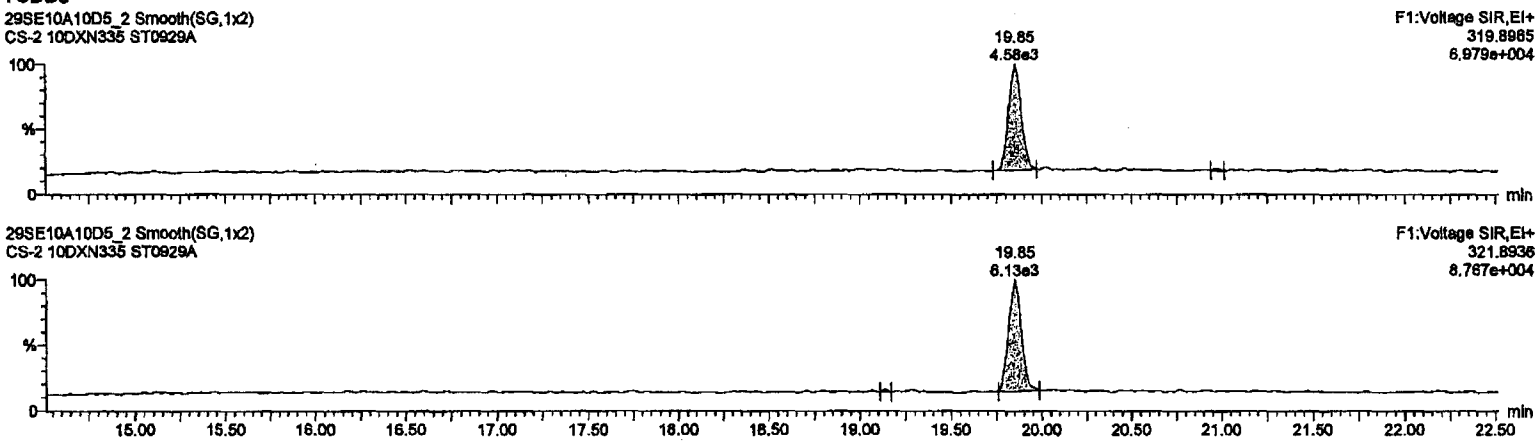
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

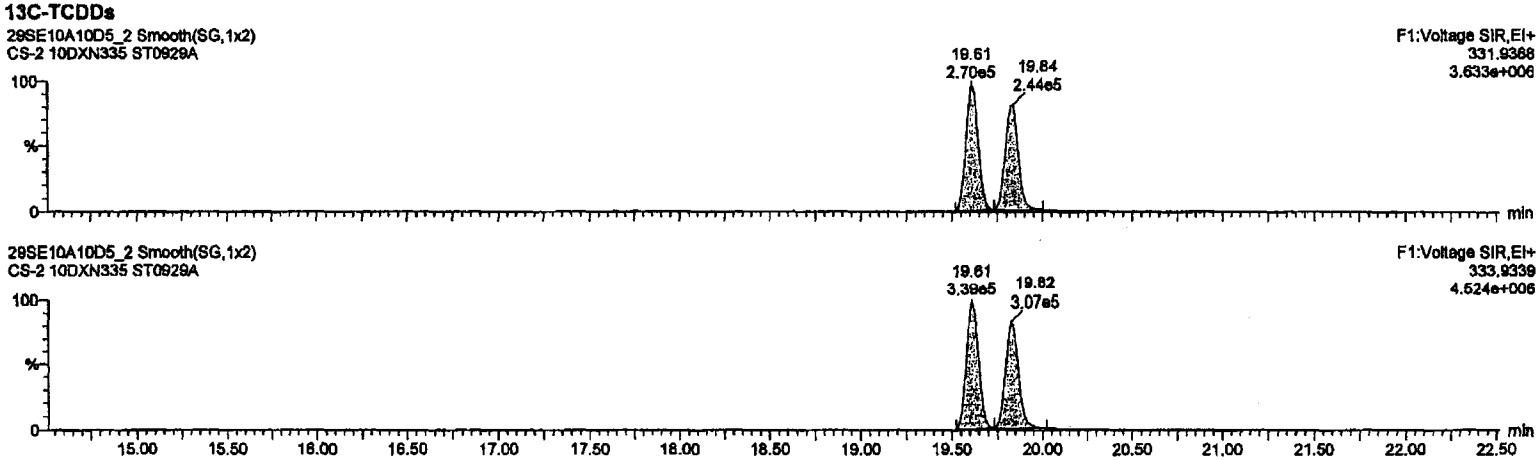
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

TCDDs



13C-TCDDs



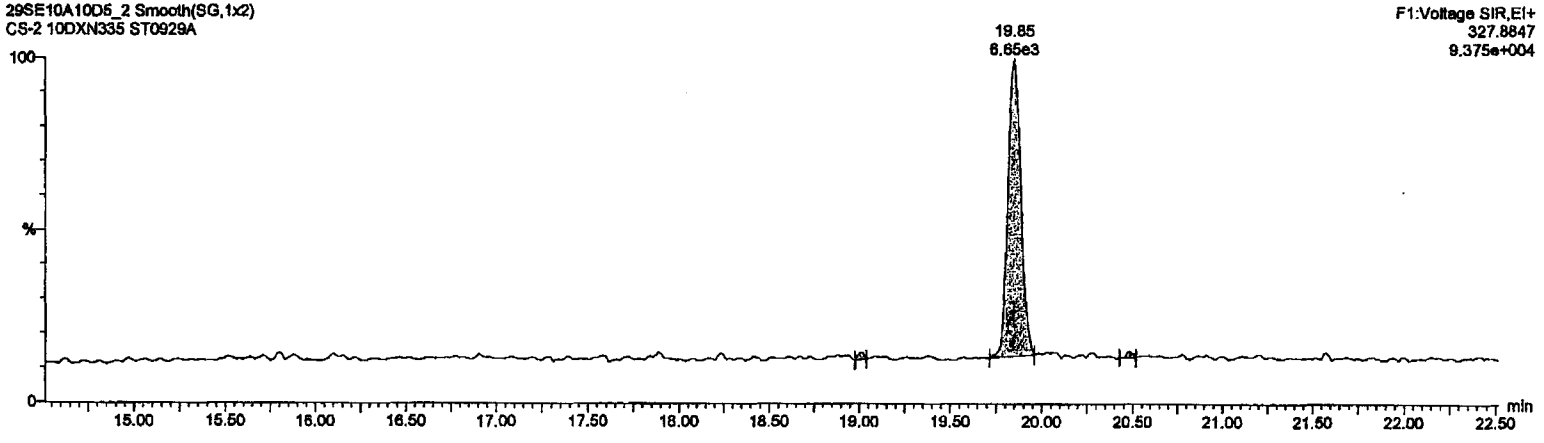
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

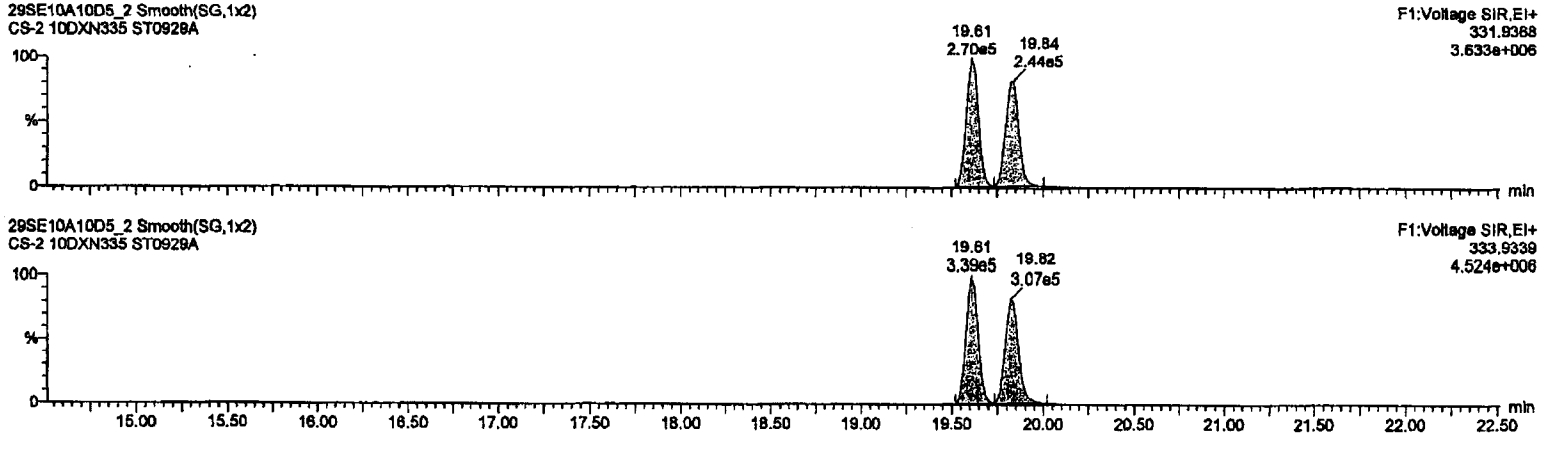
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

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



13C-TCDDs



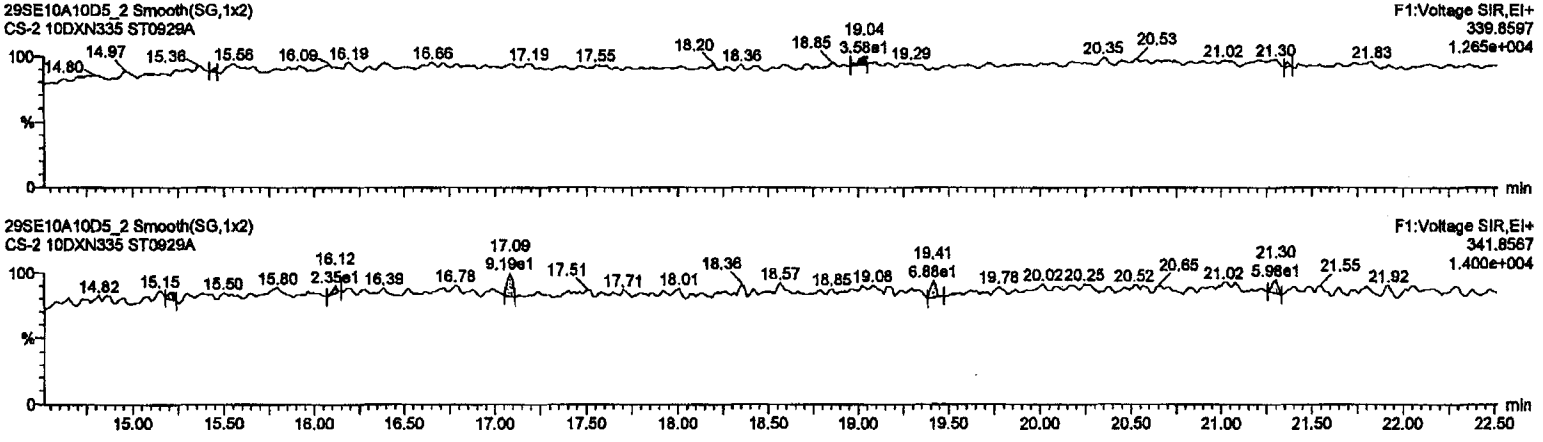
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

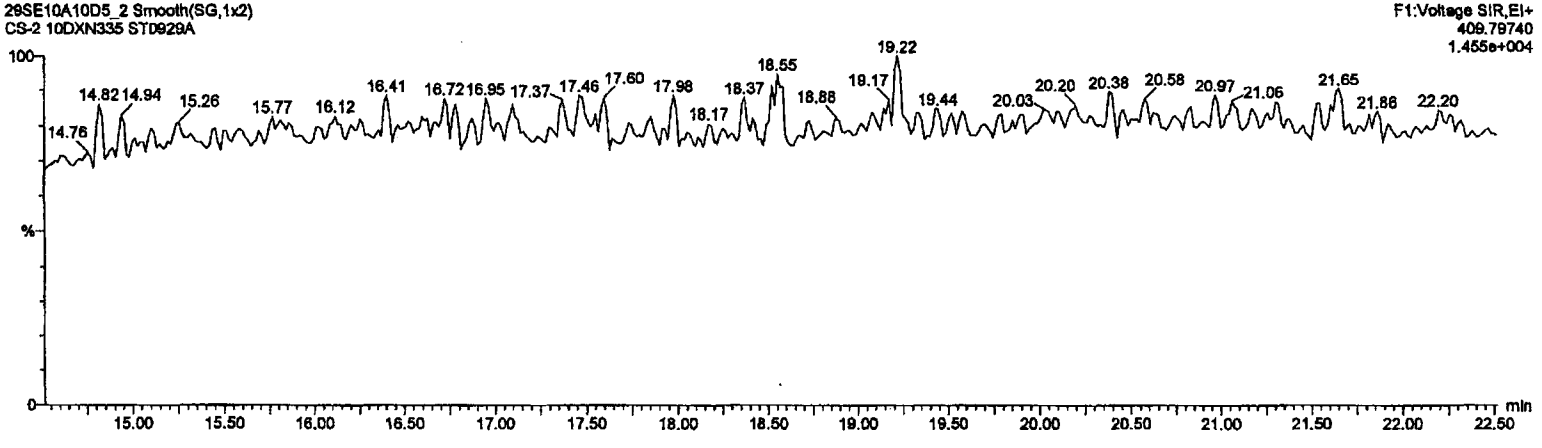
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

F1 PeCDFs



F1 PeCDF PCDPE



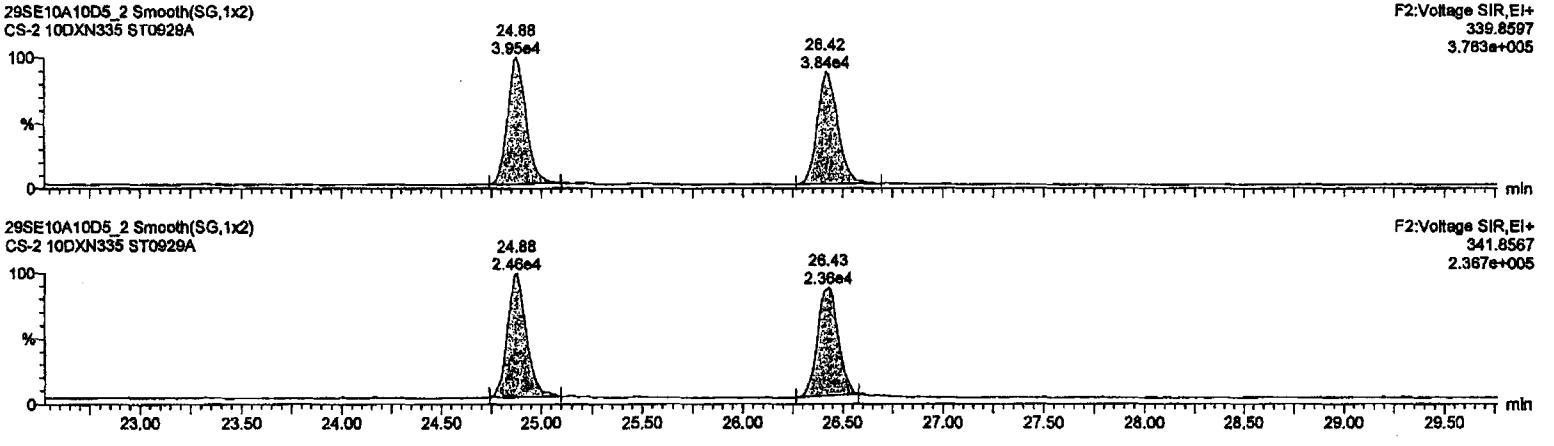
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

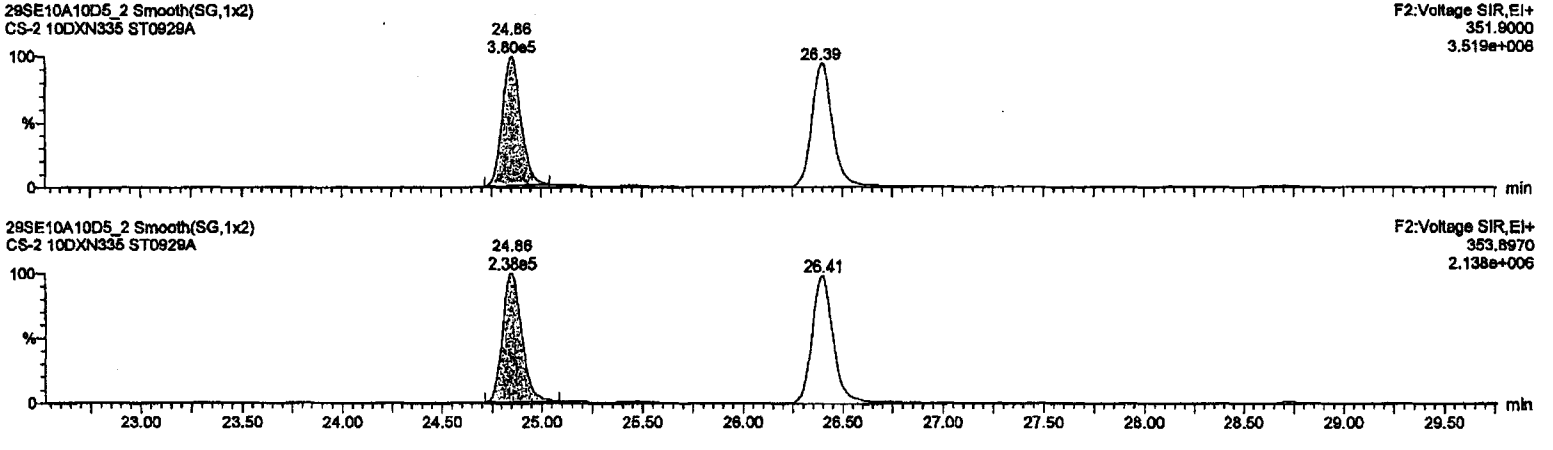
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

PeCDFs



13C-PeCDFs



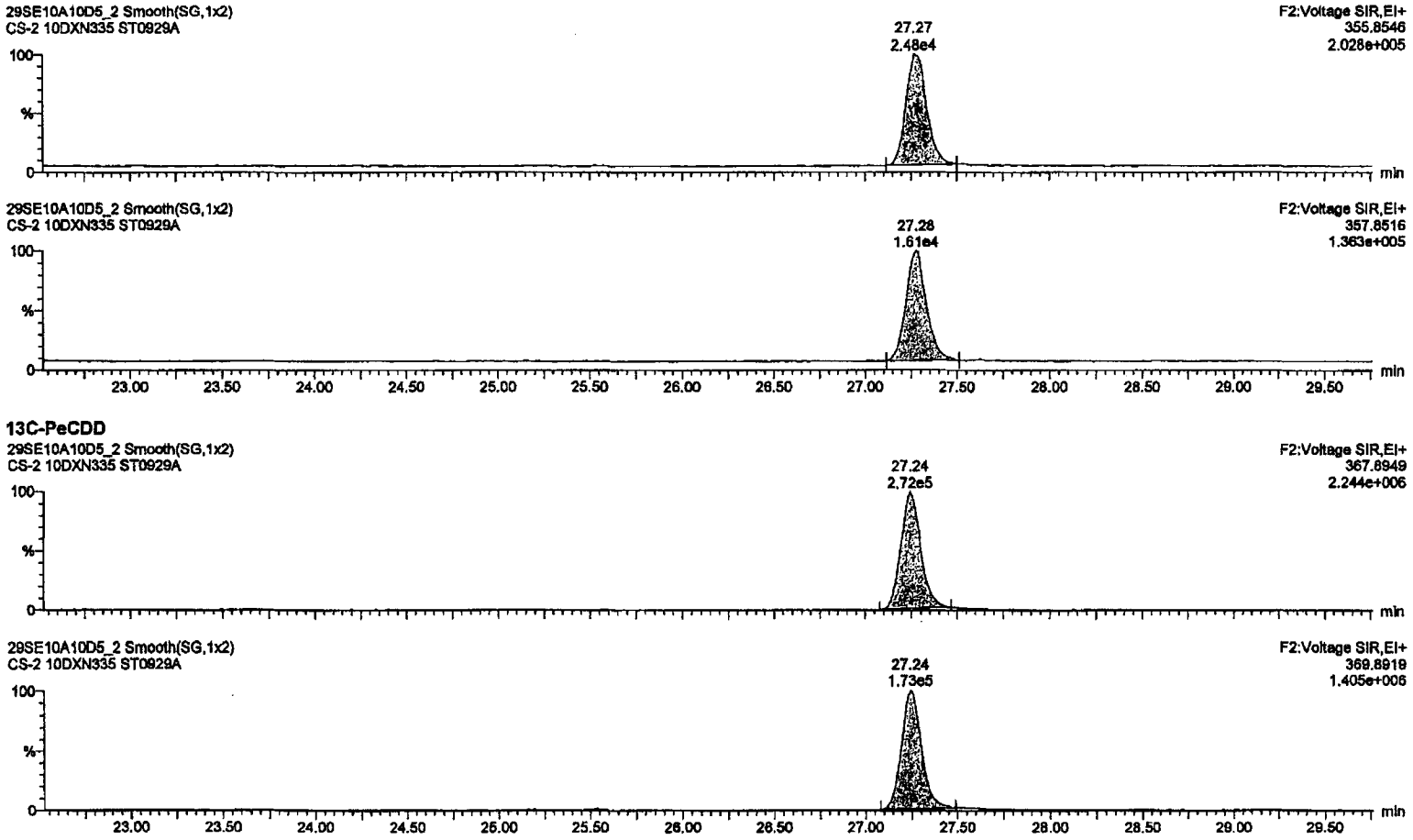
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

PeCDDs



13C-PeCDD

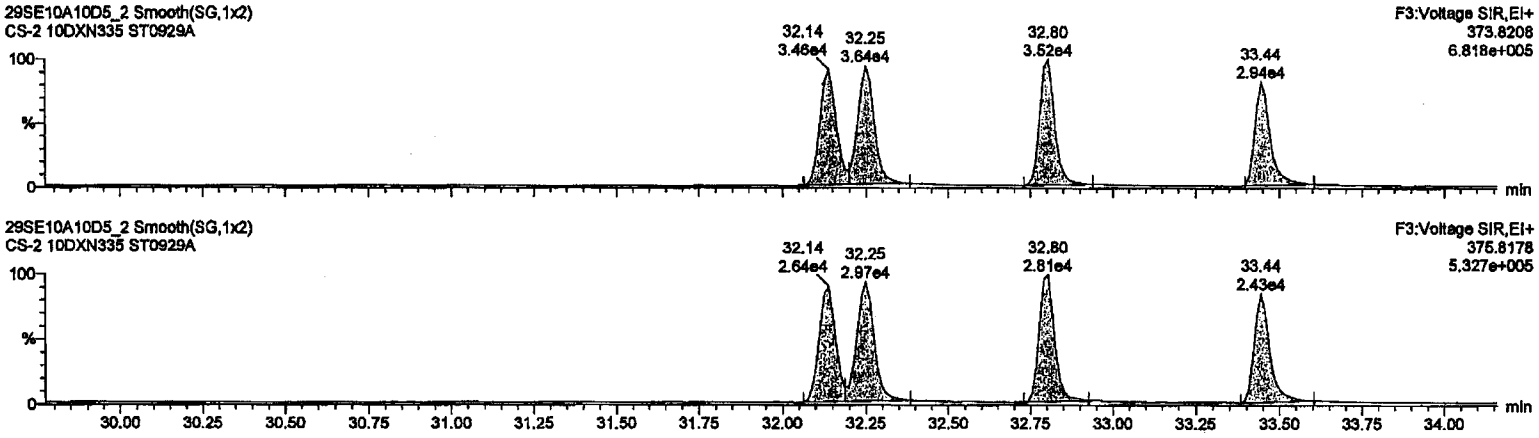
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

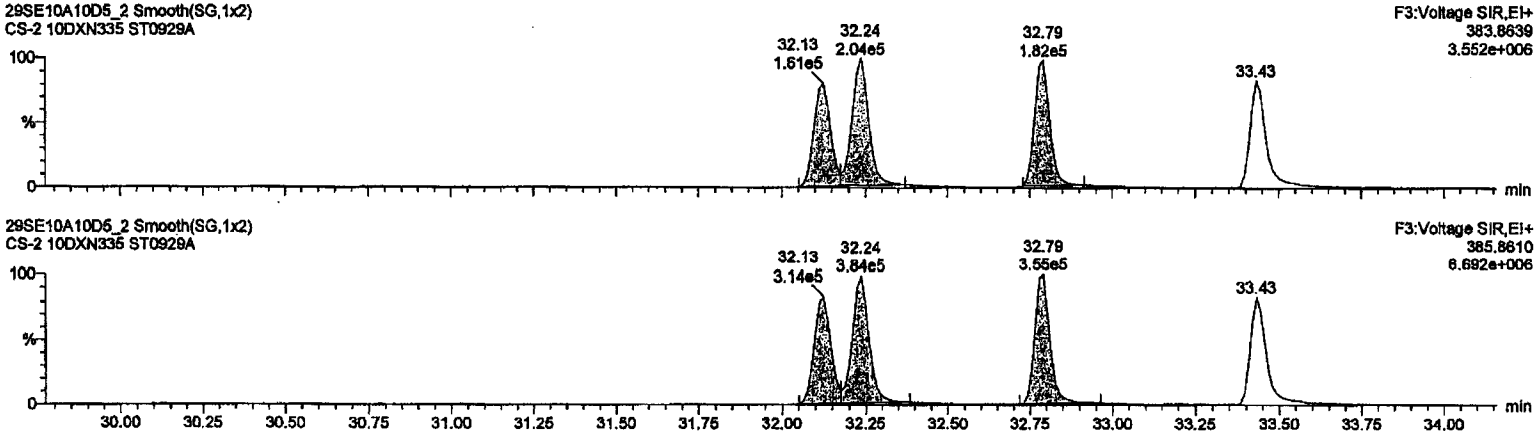
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

HxCDFs



13C-HxCDFs



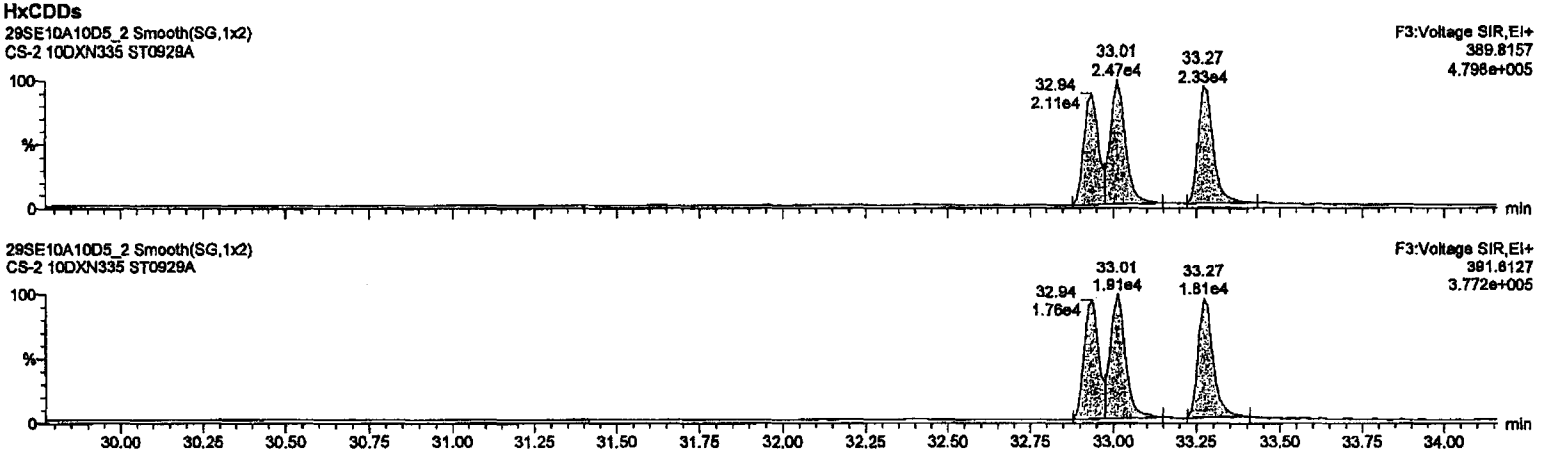
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

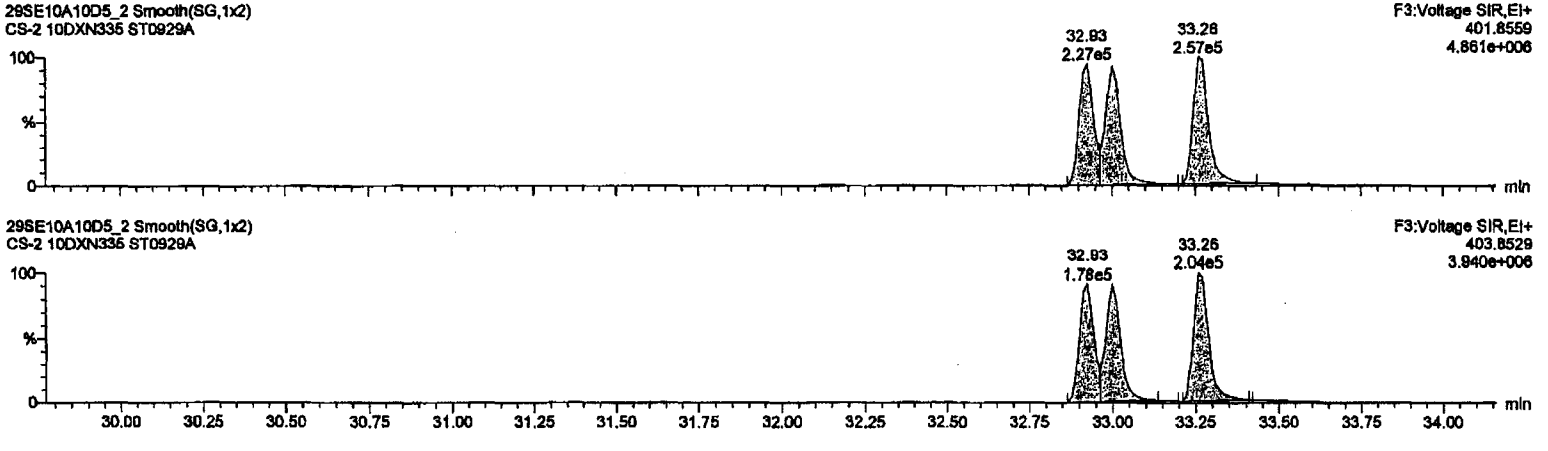
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

HxCDDs



13C-1,2,3,6,7,8-HxCDD



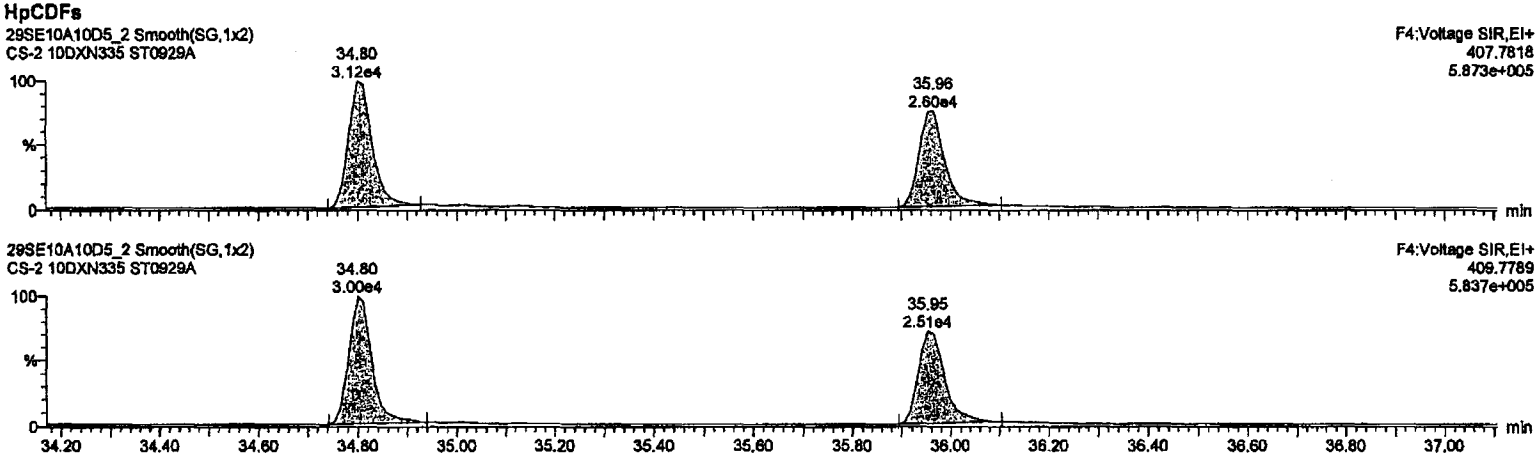
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

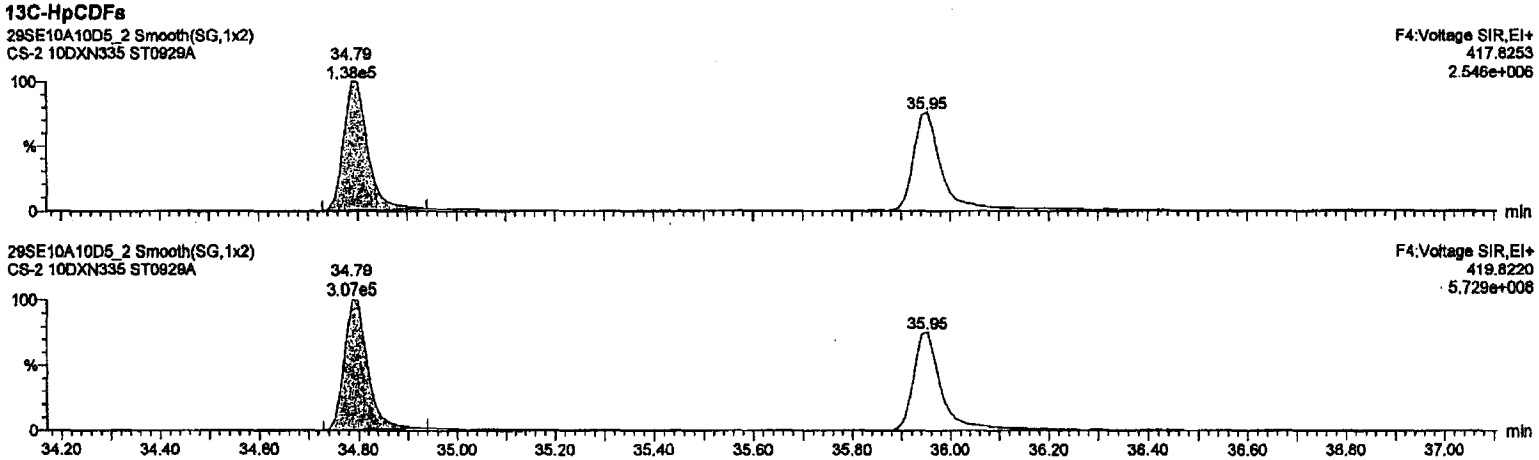
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

HpCDFs



13C-HpCDFs



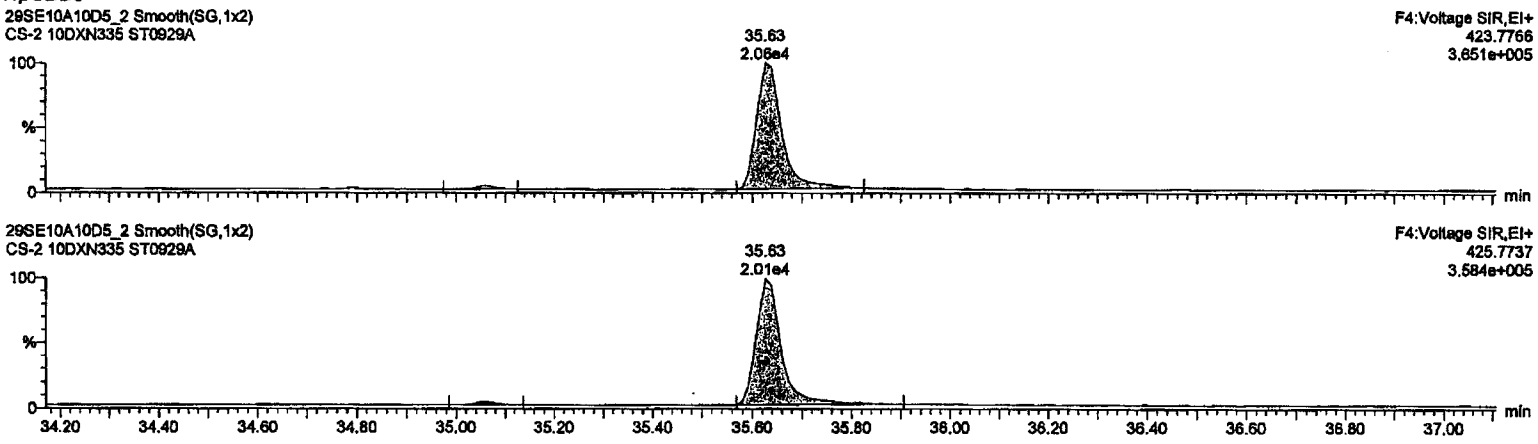
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

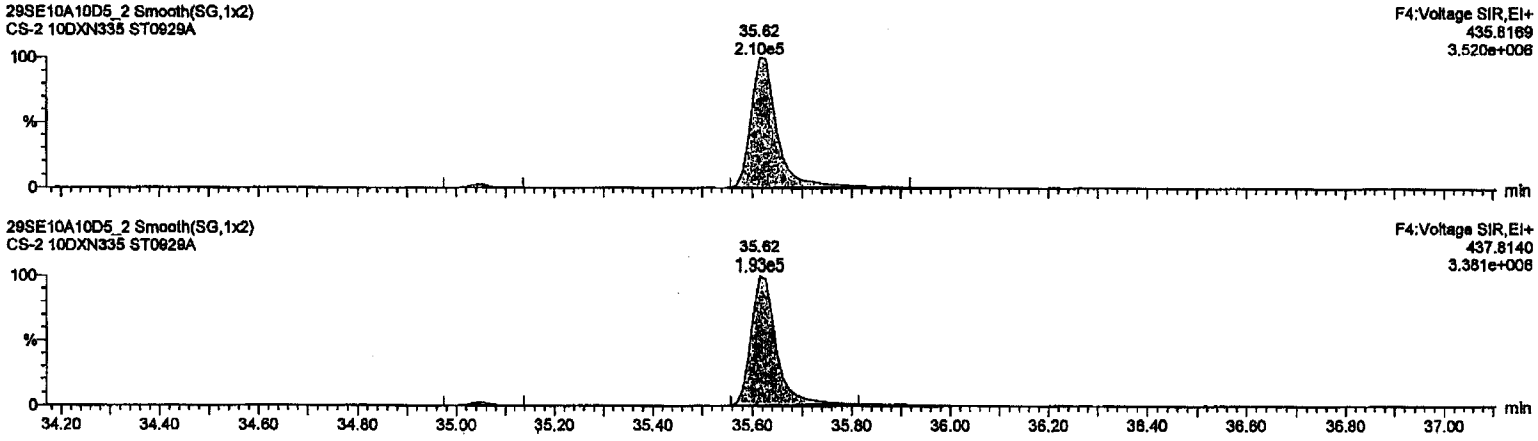
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



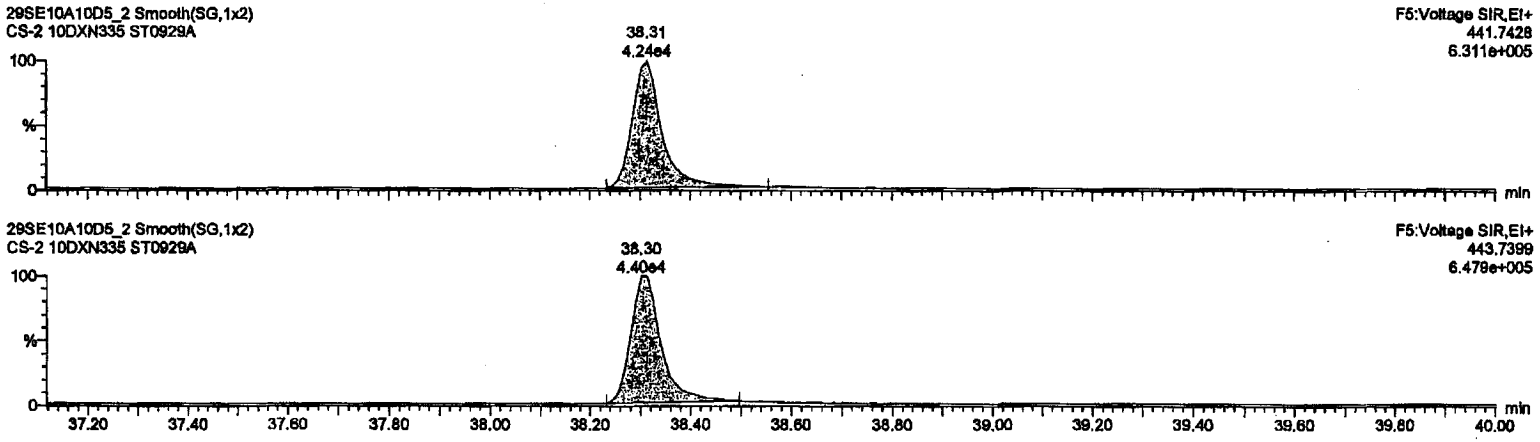
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

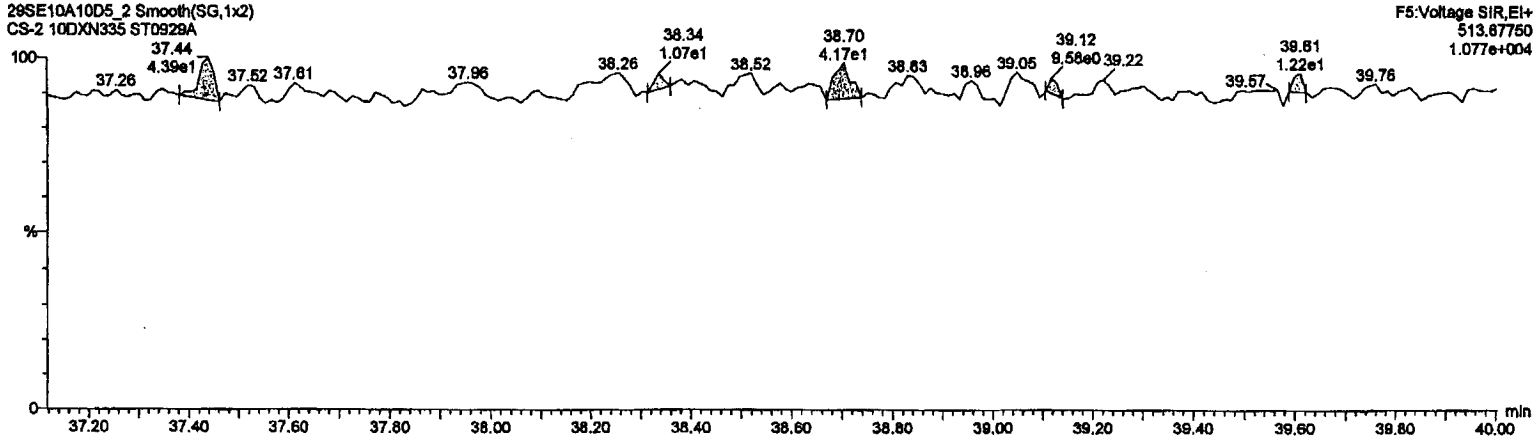
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

OCDFs



OCDF PCDPE



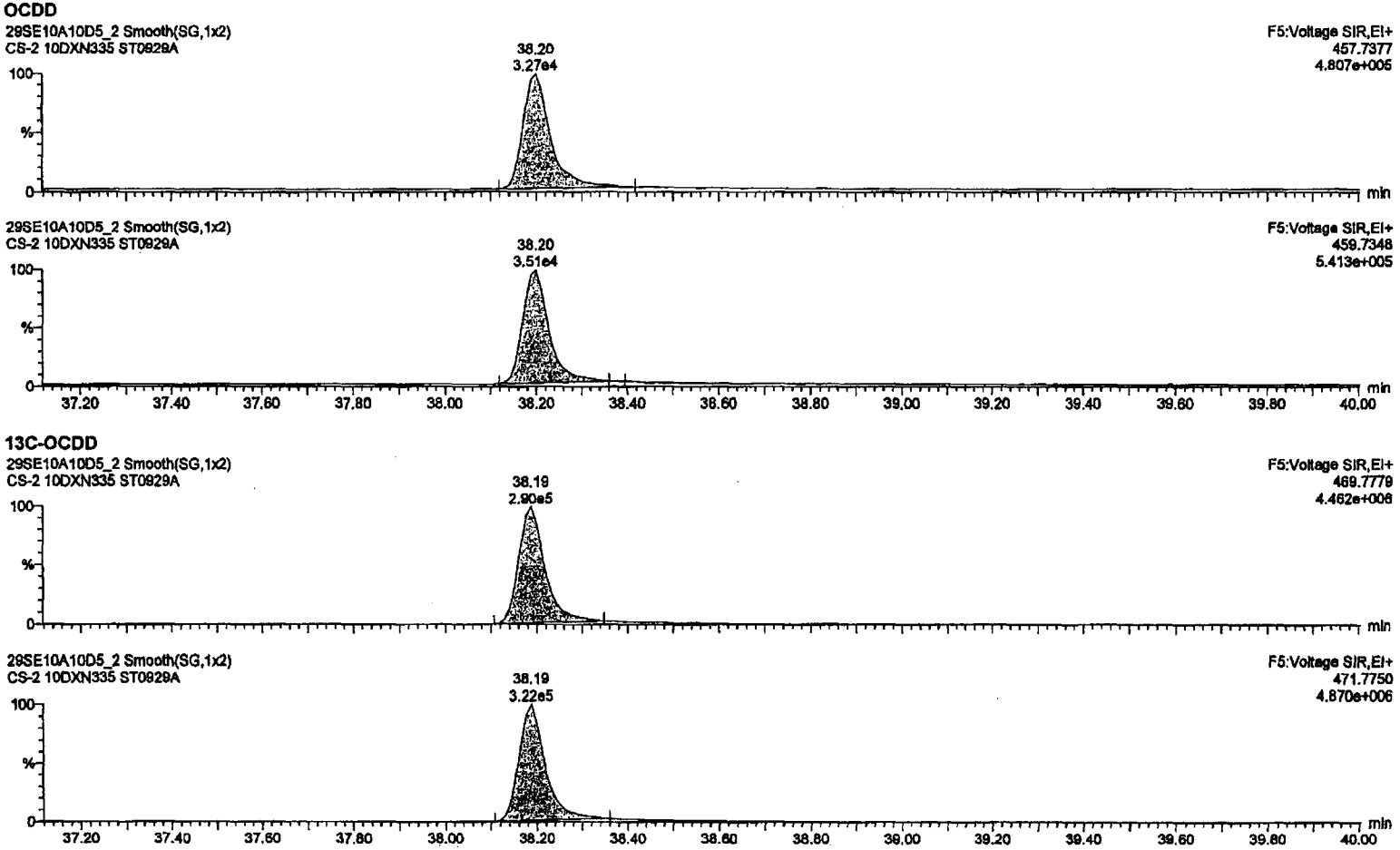
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

OCDD



13C-OCDD

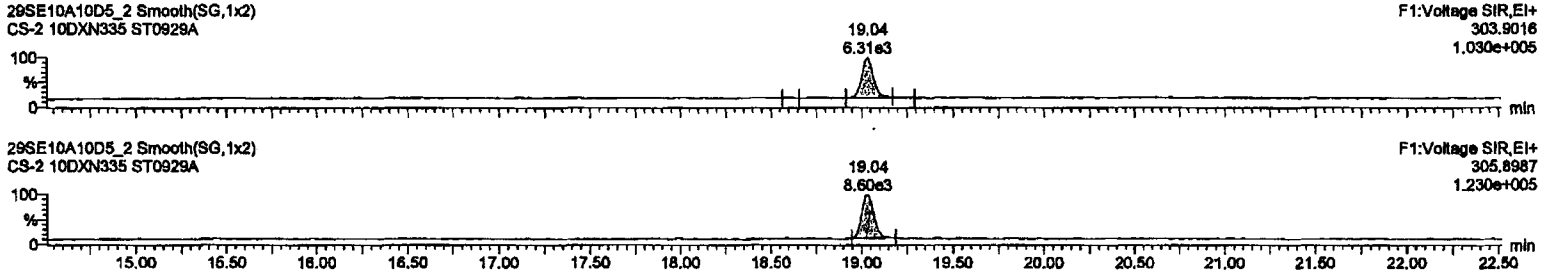
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

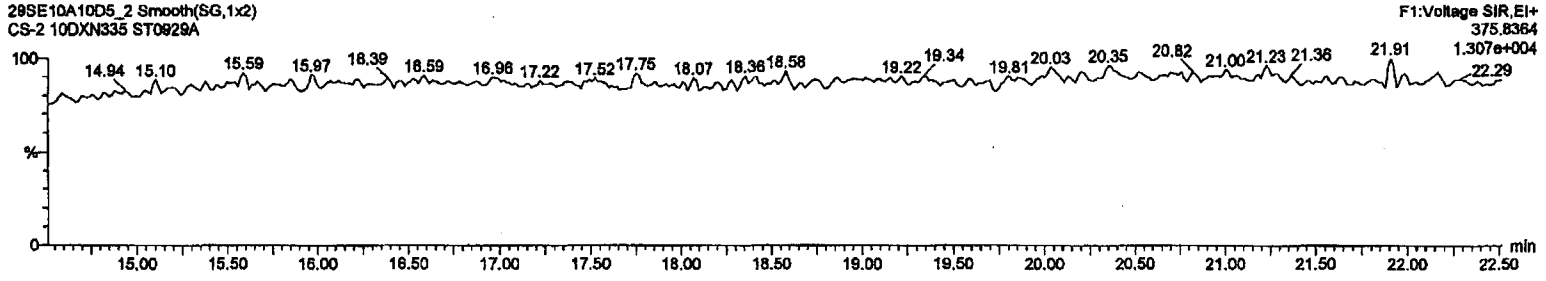
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

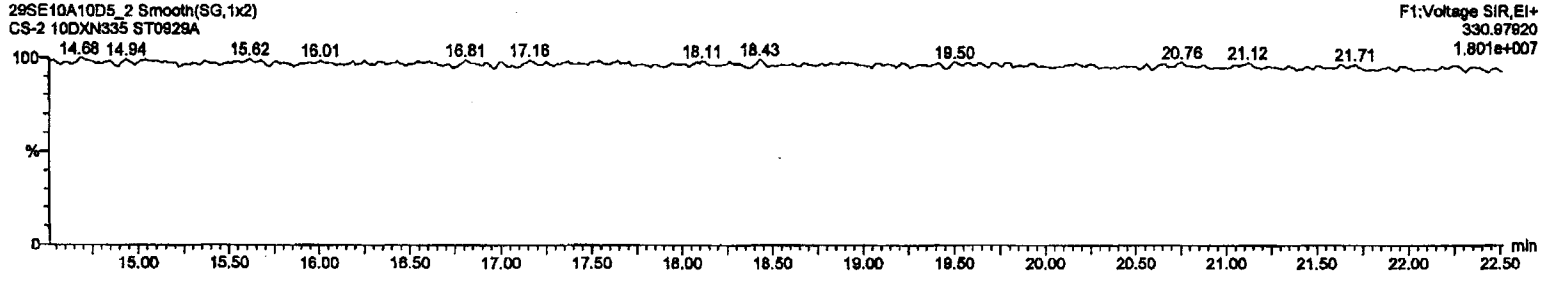
TCDFs



TCDF PCDPE



Function 1 PFK



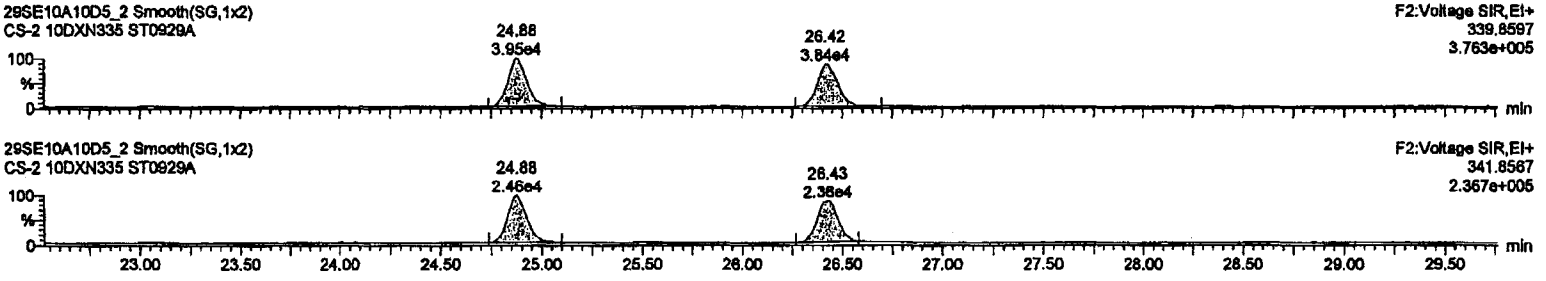
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

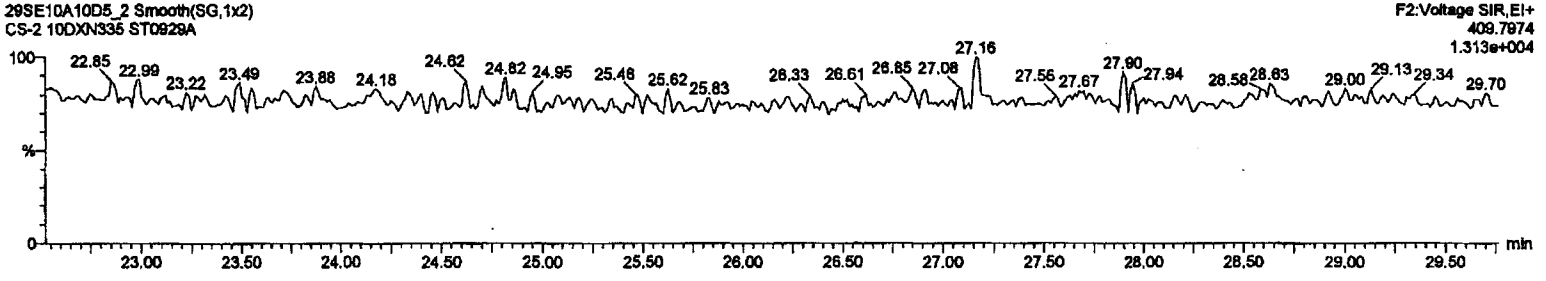
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

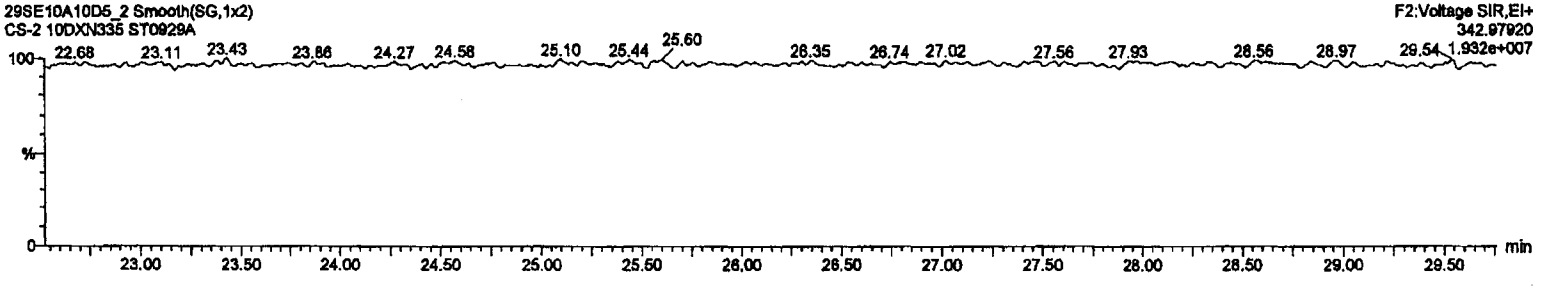
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



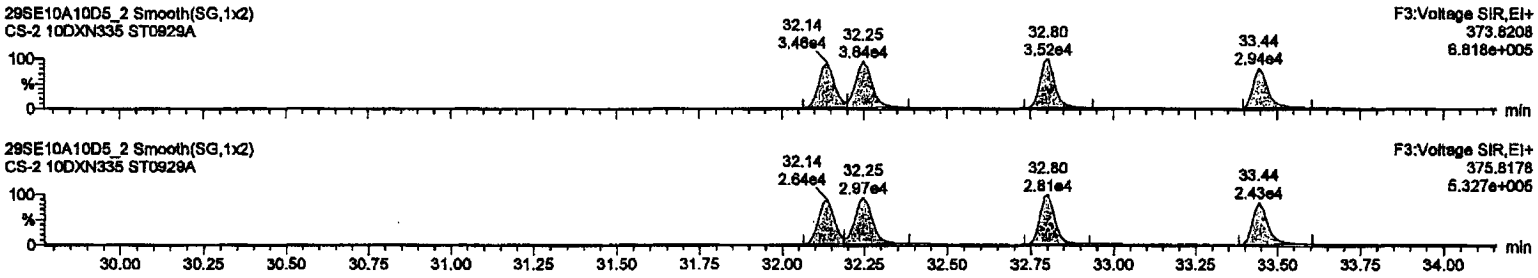
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

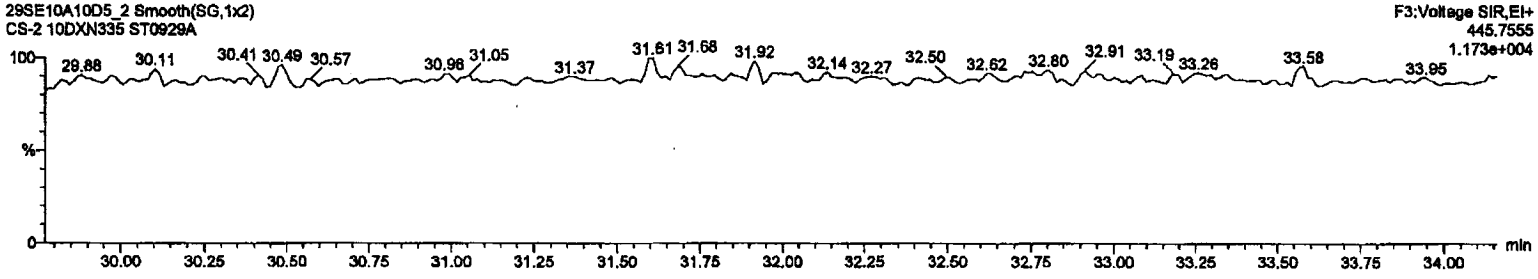
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

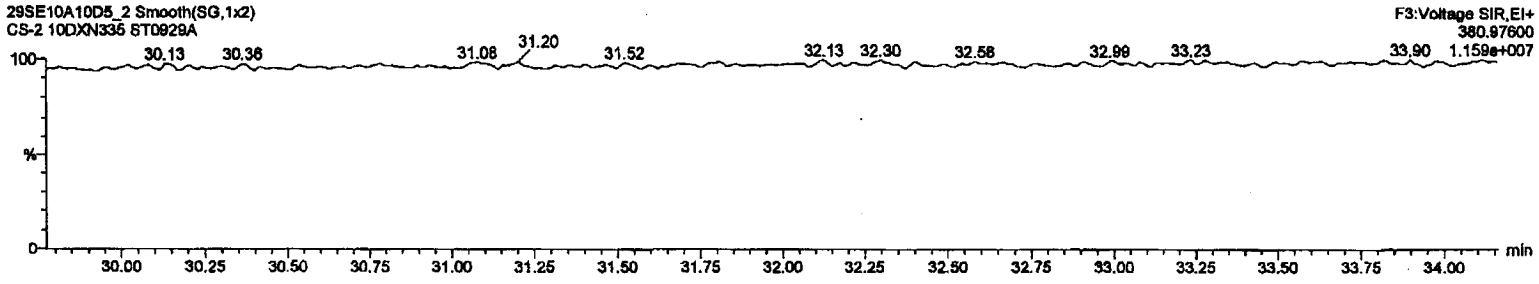
HxCDFs



HxCDF PCDPE



Function 3 PFK



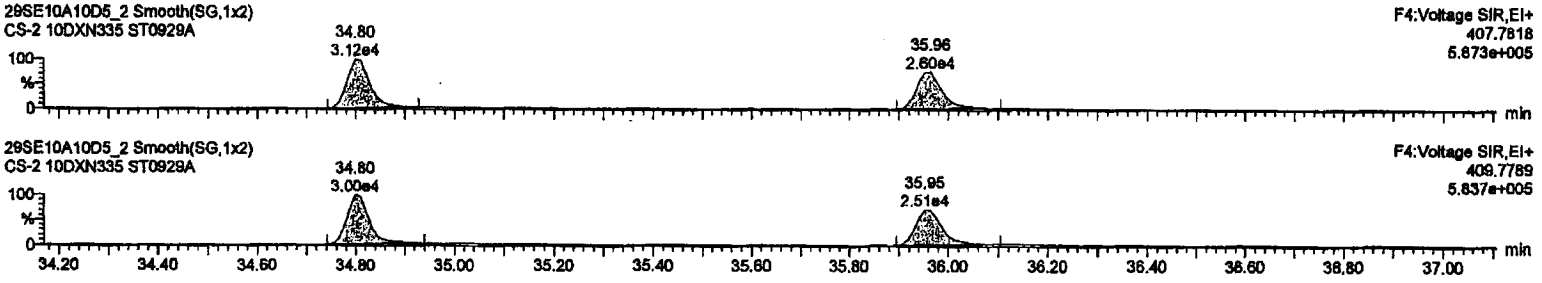
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

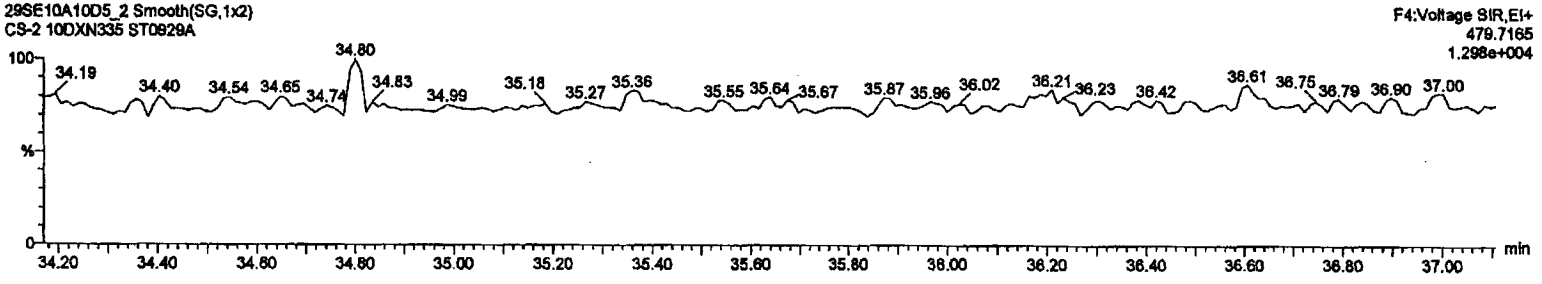
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

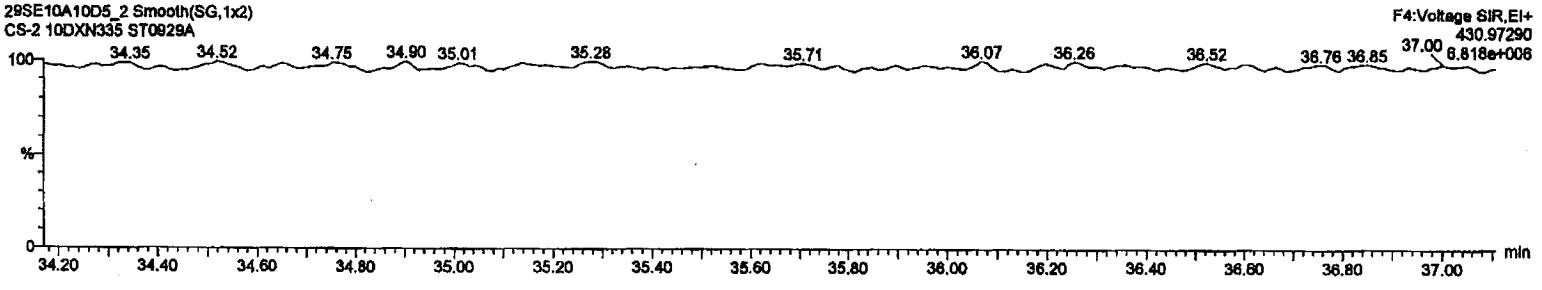
HpCDFs



HpCDF PCDPE



Function 4 PFK



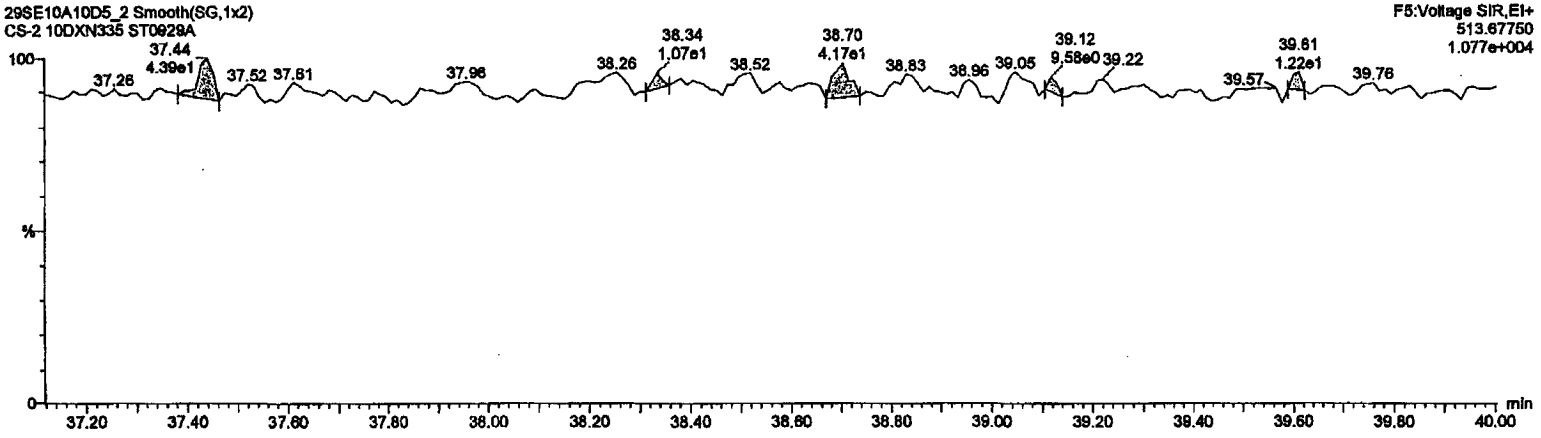
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA092910\0D58290.qld

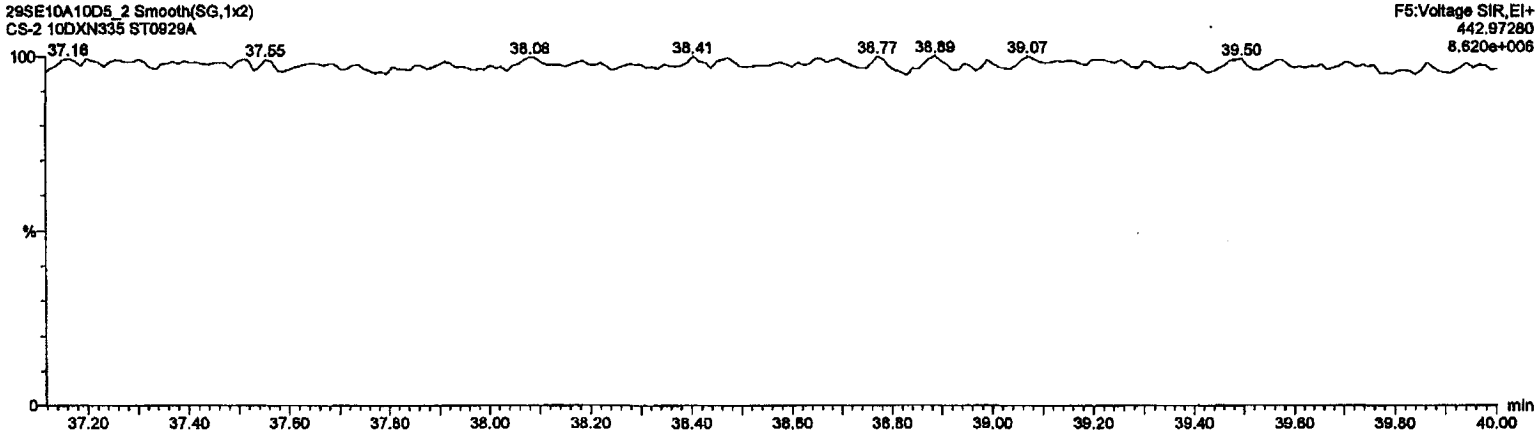
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_2, Date: 29-Sep-2010, Time: 19:33:58, ID: ST0929A, Description: CS-2 10DXN335

OCDF PCDPE



Function 5 PFK



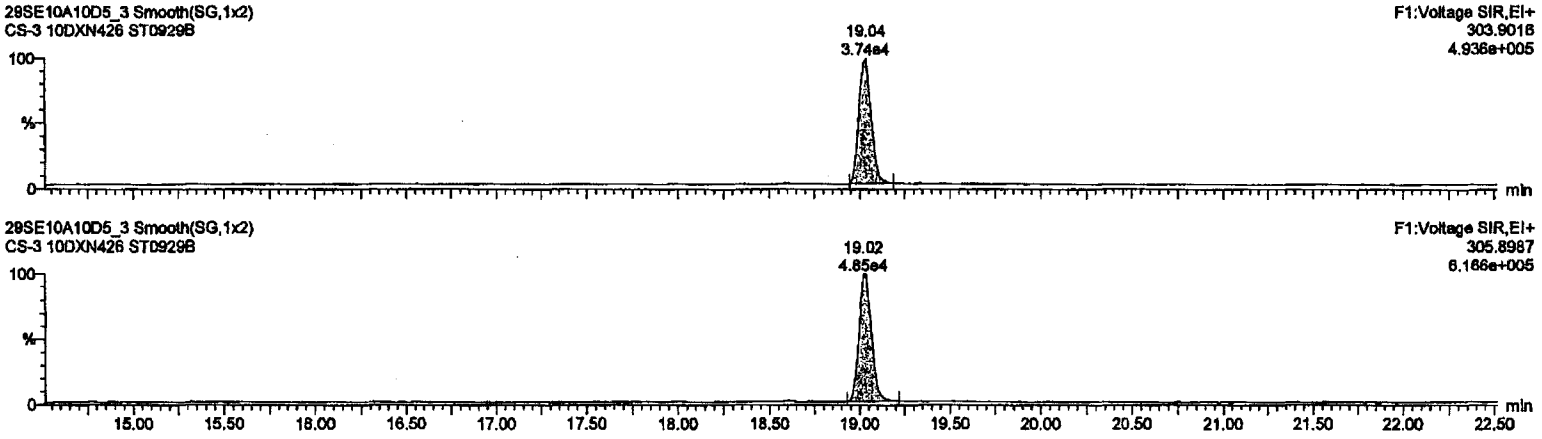
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

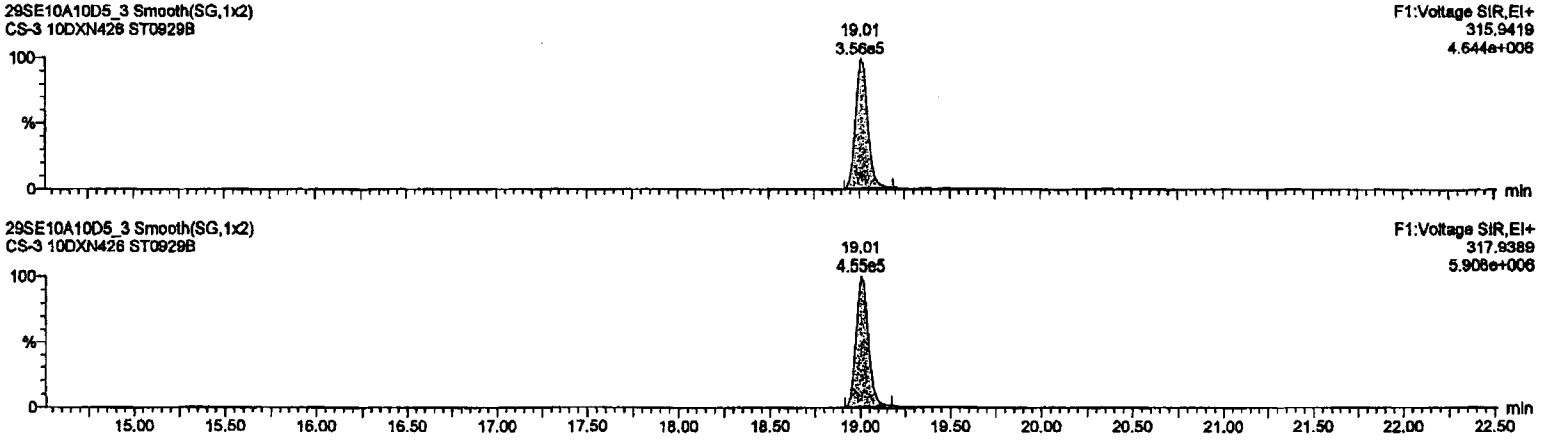
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

TCDFs



13C-TCDF



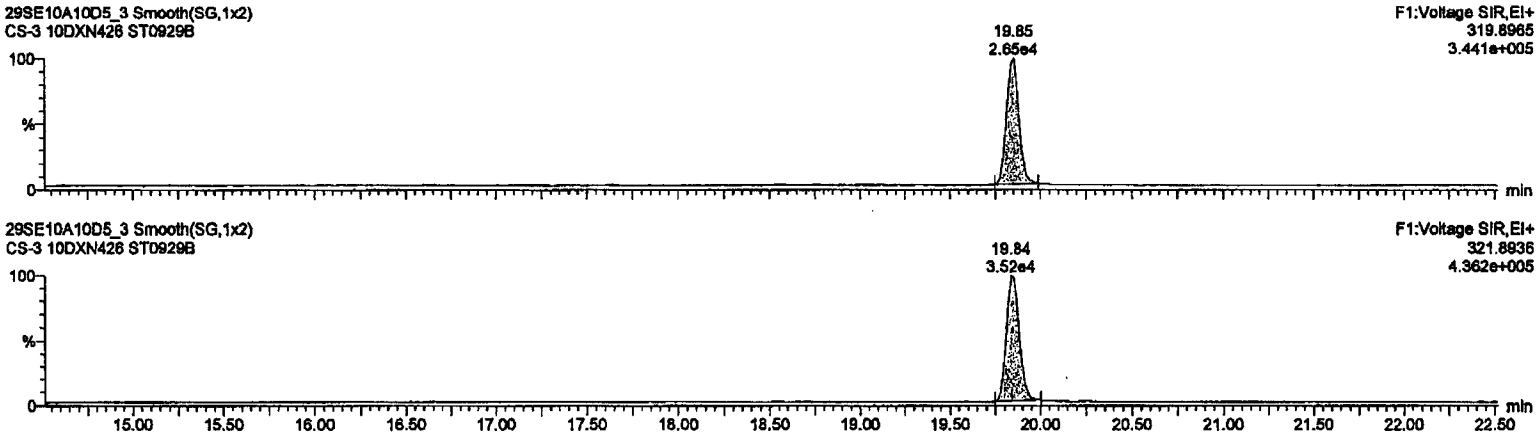
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

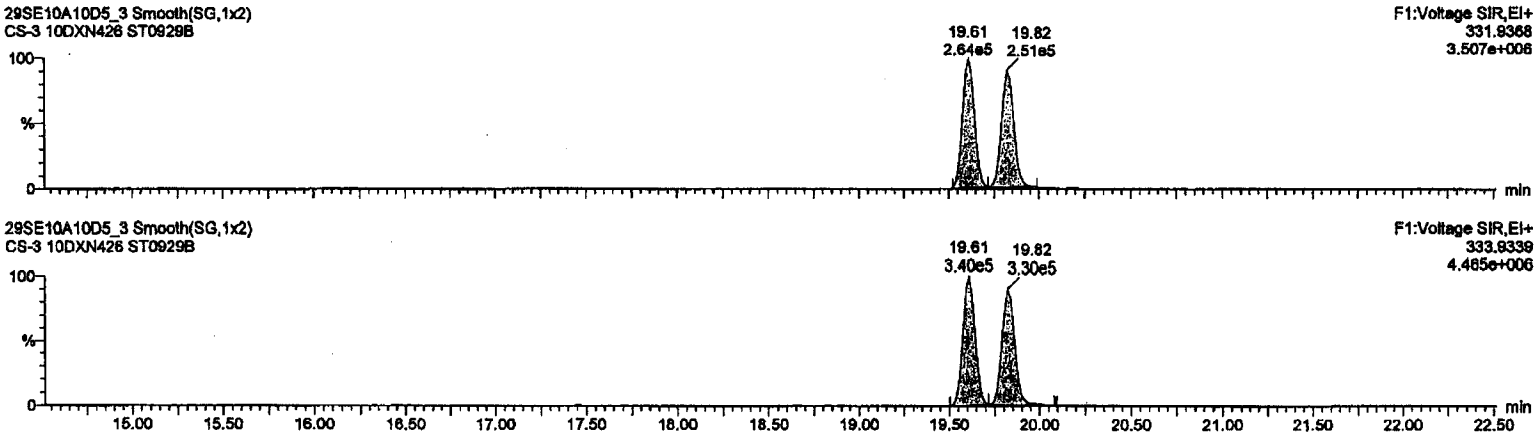
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

TCDDs



13C-TCDDs



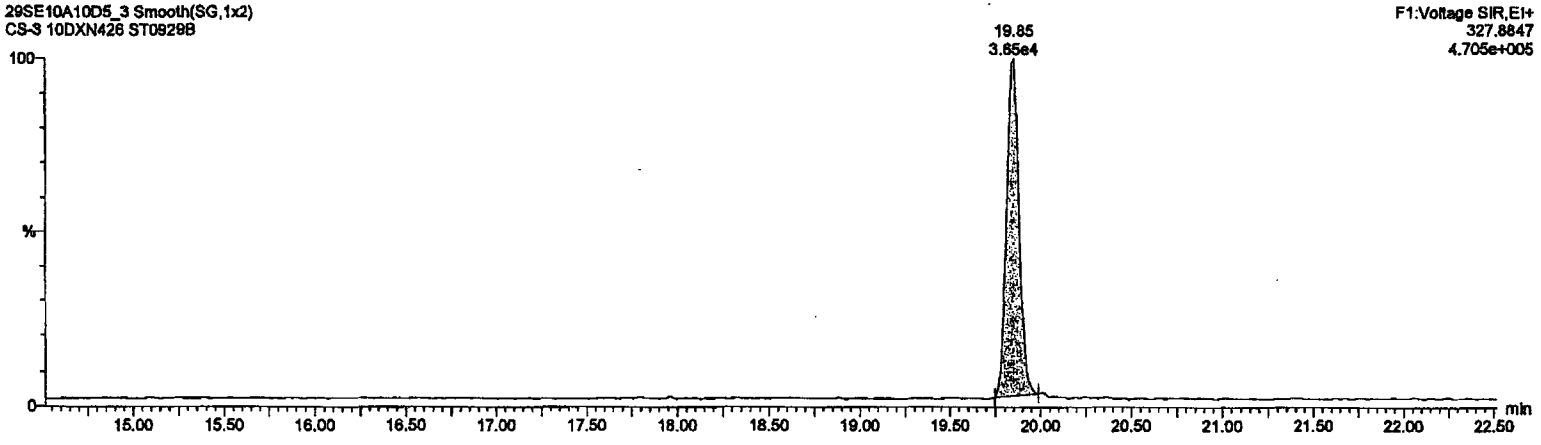
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

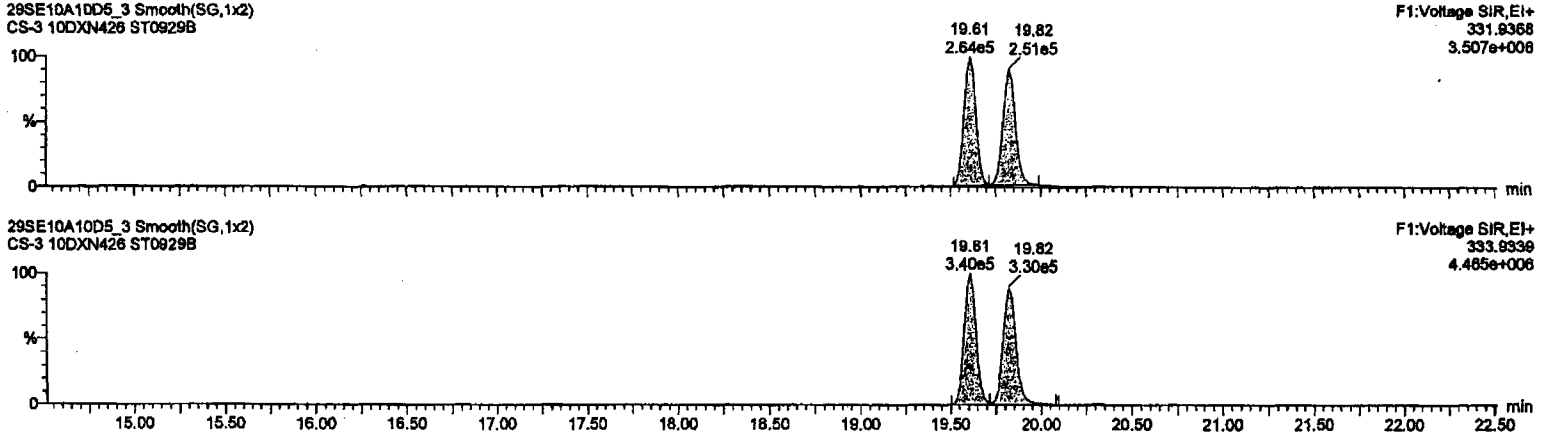
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

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



13C-TCDDs



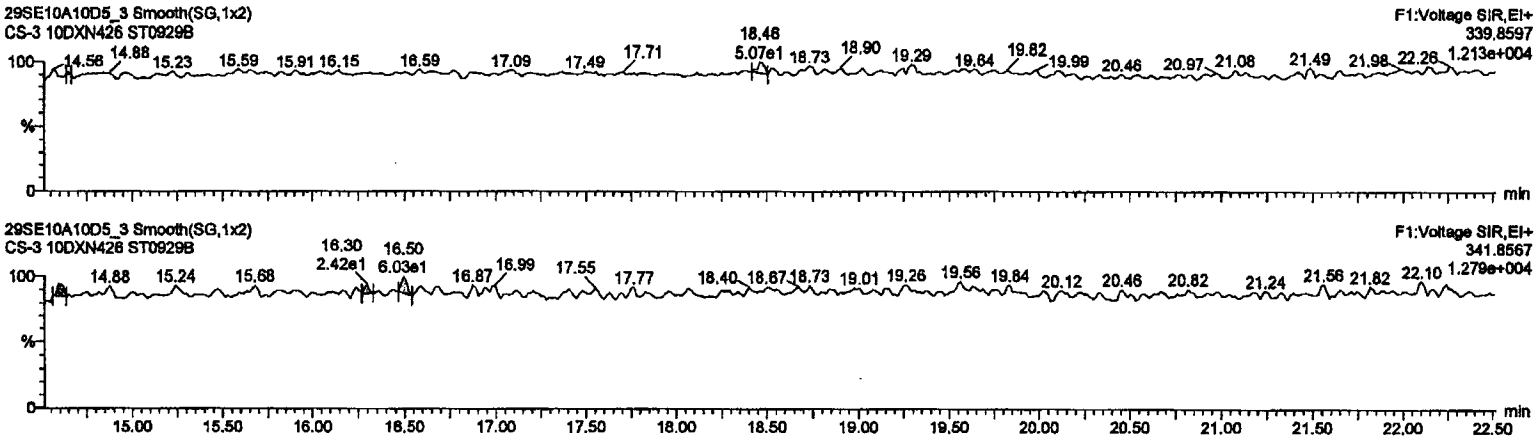
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

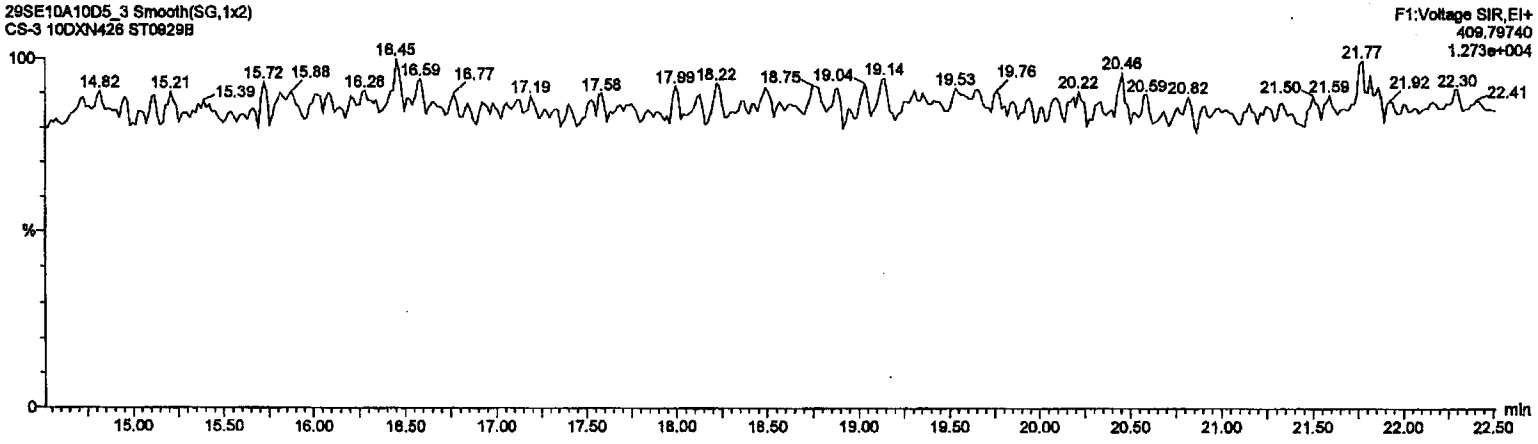
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

F1 PeCDFs



F1 PeCDF PCDPE



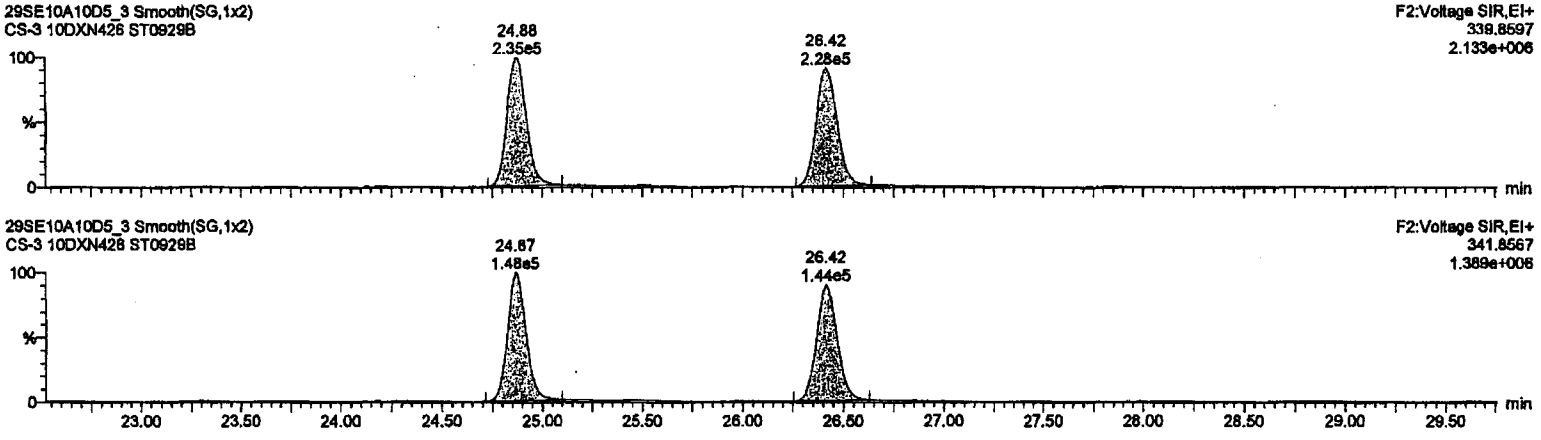
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

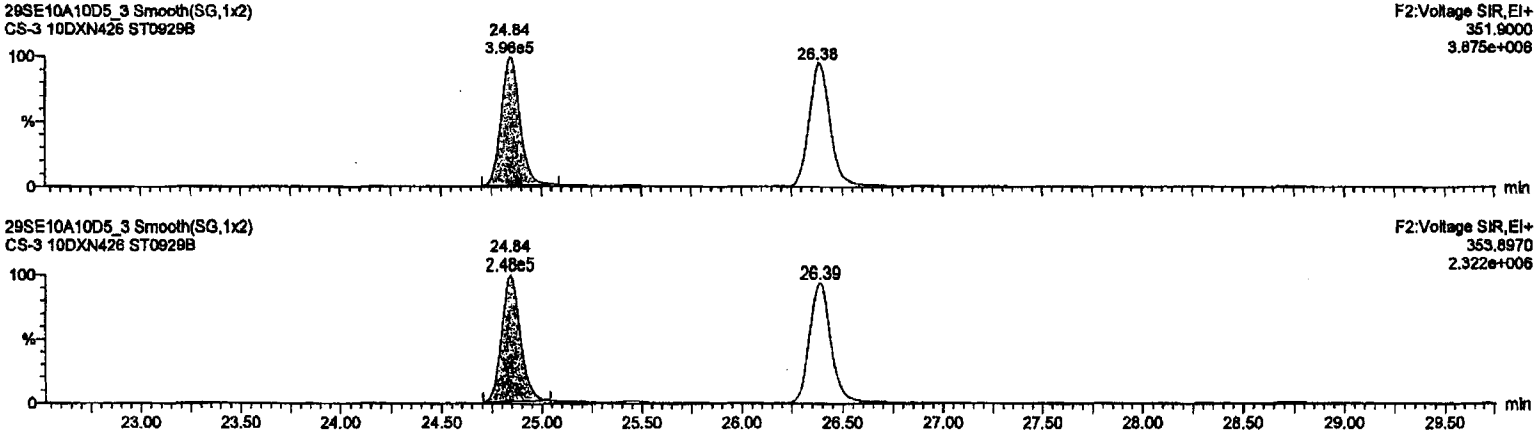
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

PeCDFs



13C-PeCDFs



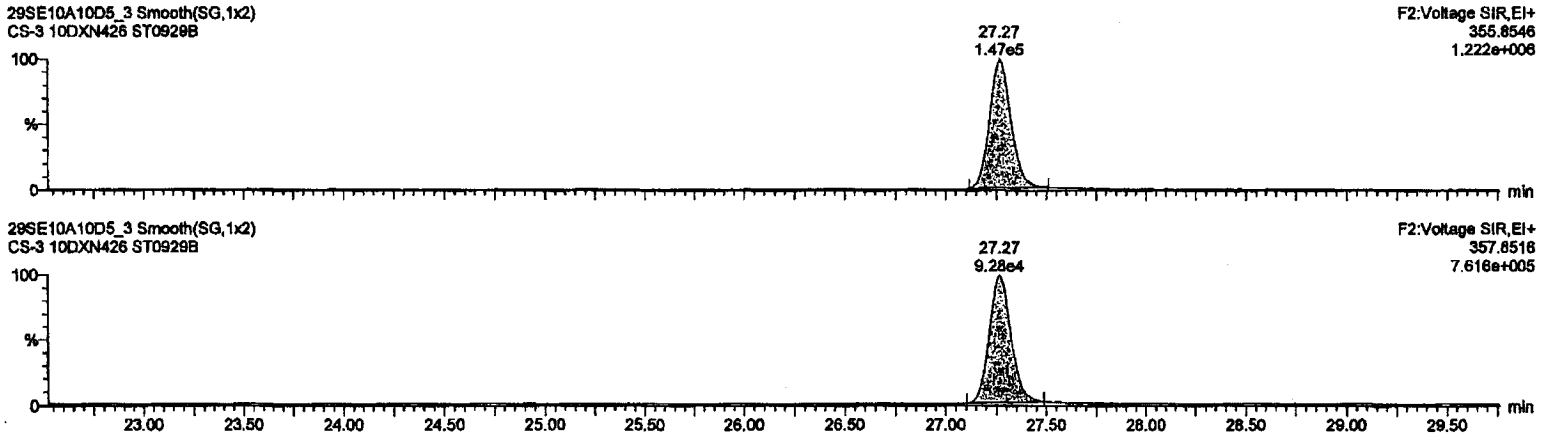
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

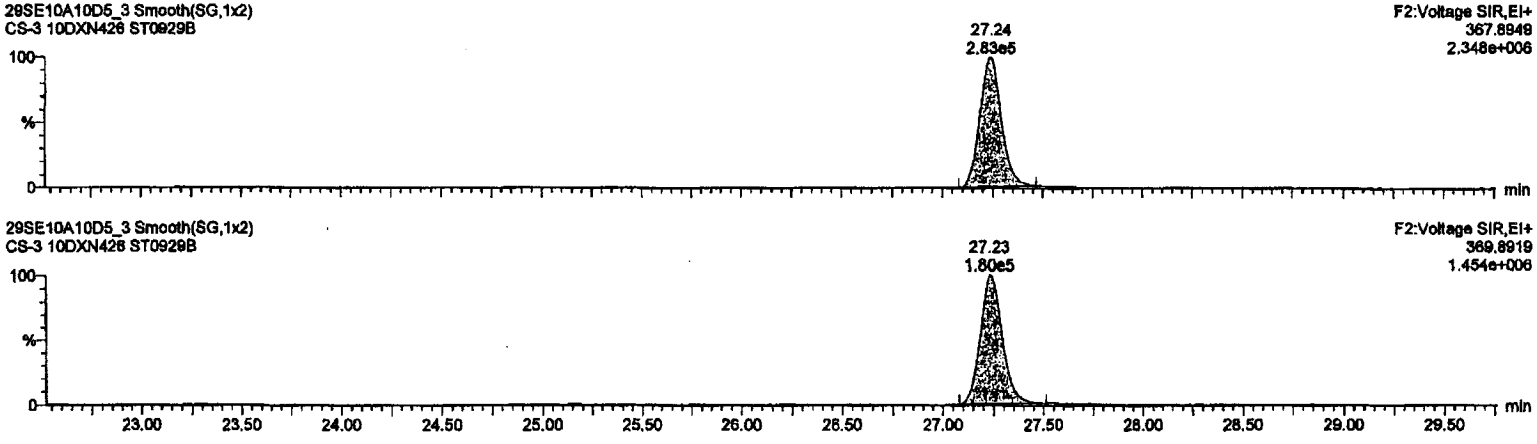
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

PeCDDs



13C-PeCDD



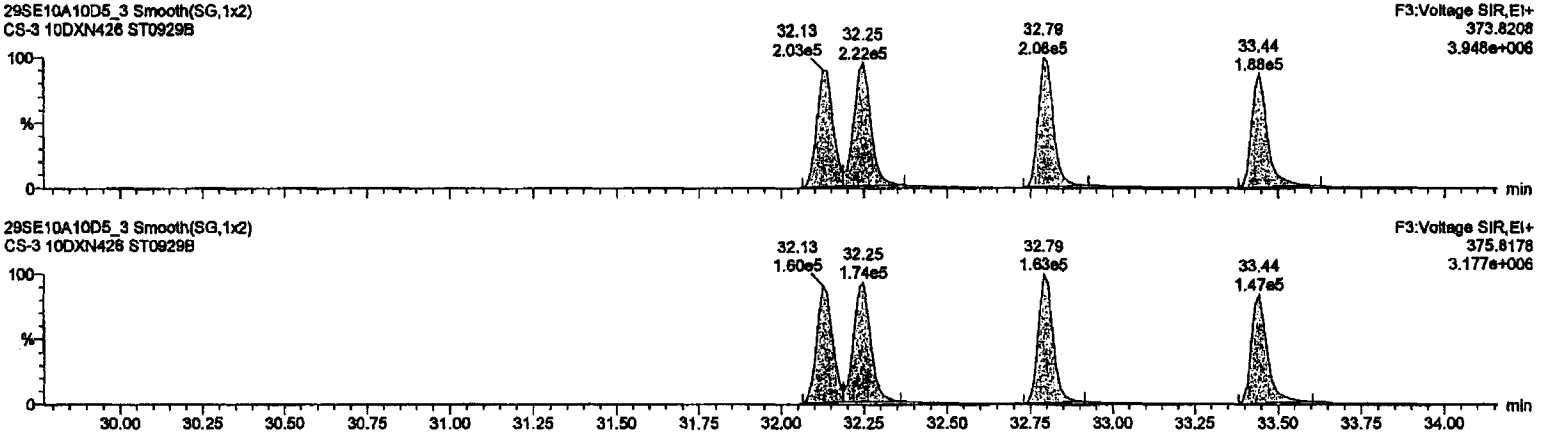
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

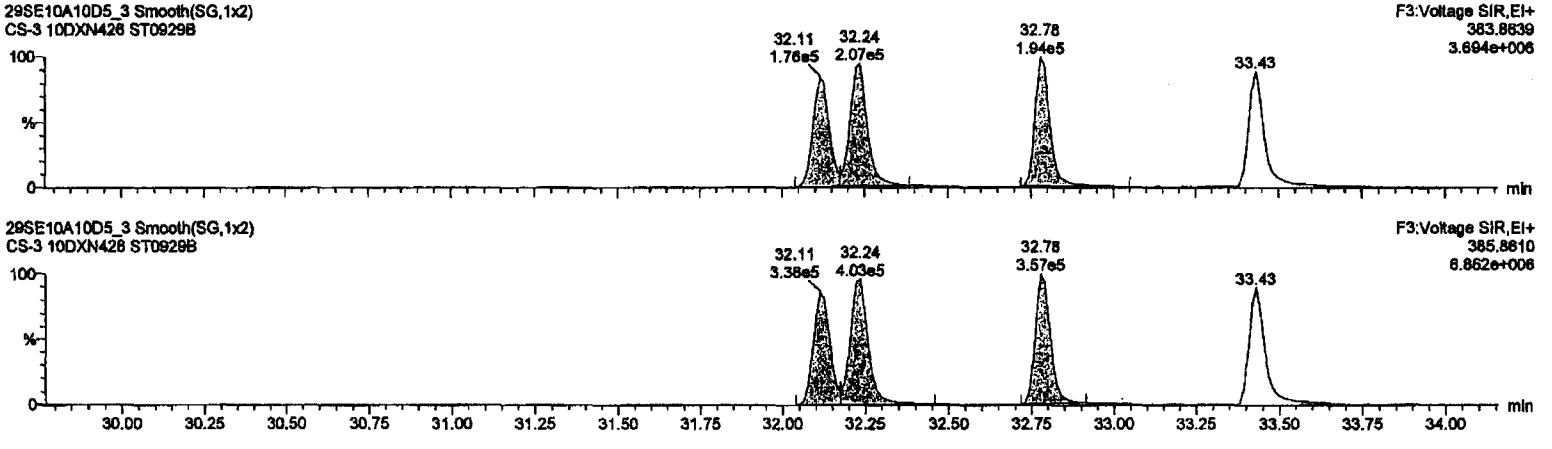
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

HxCDFs



13C-HxCDFs



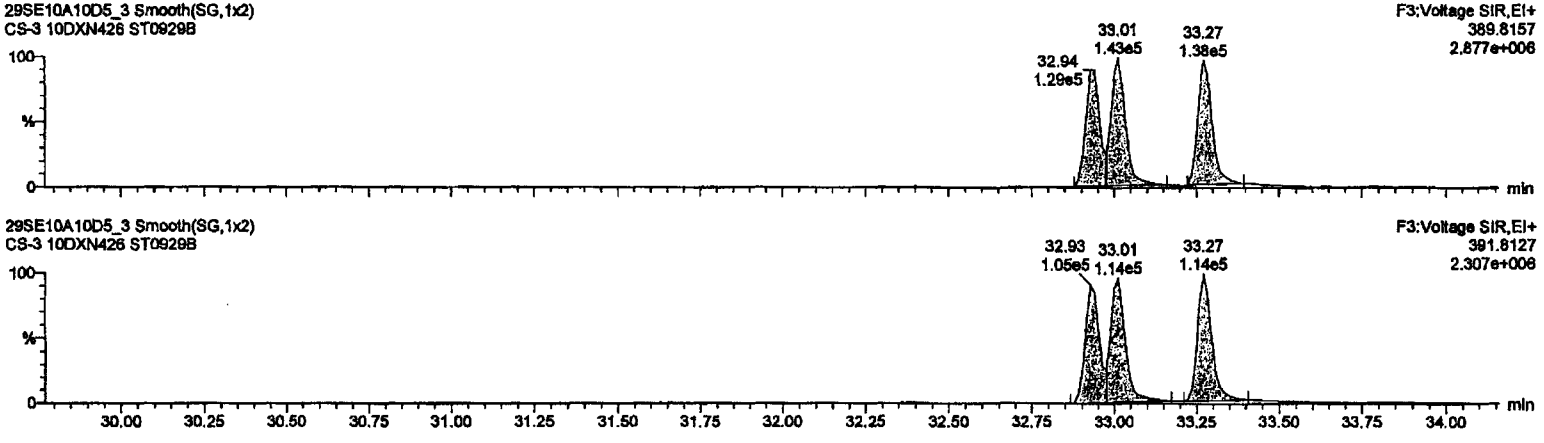
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

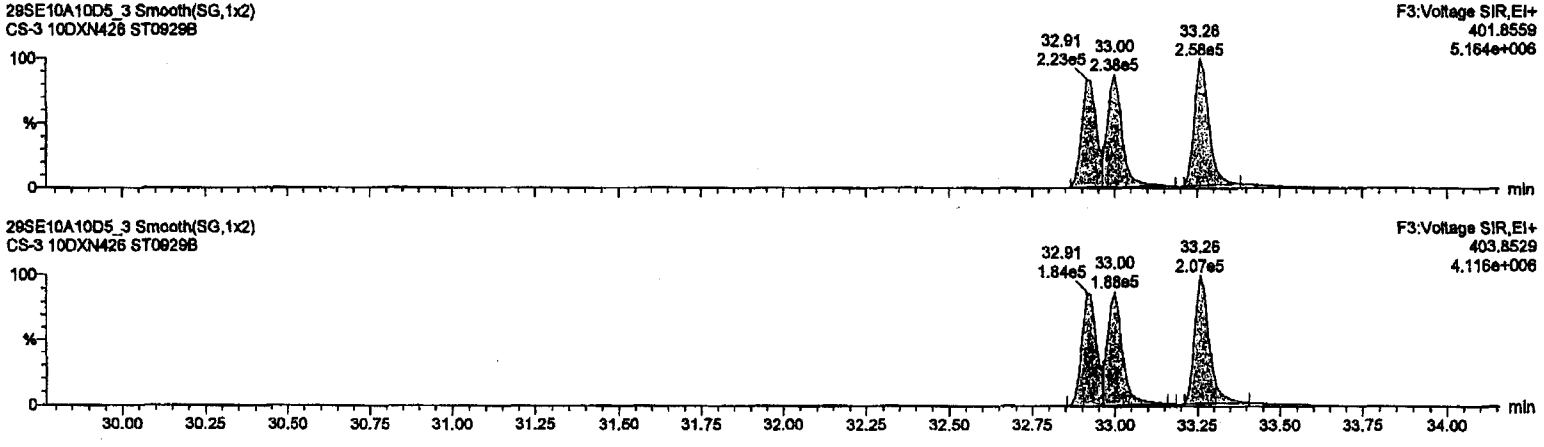
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

HxCDDs



13C-1,2,3,6,7,8-HxCDD



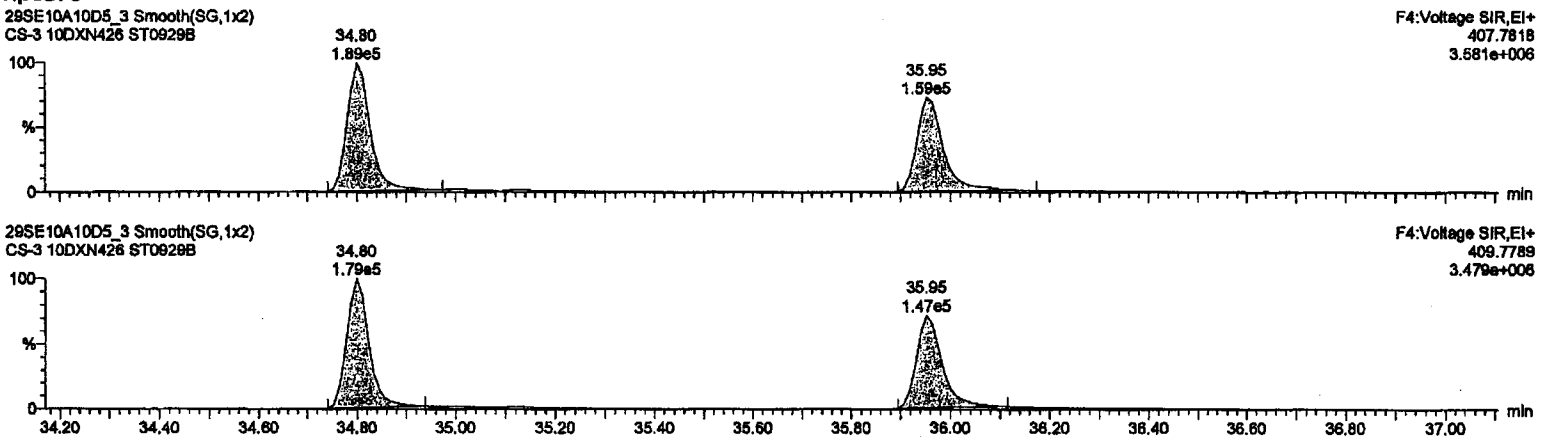
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

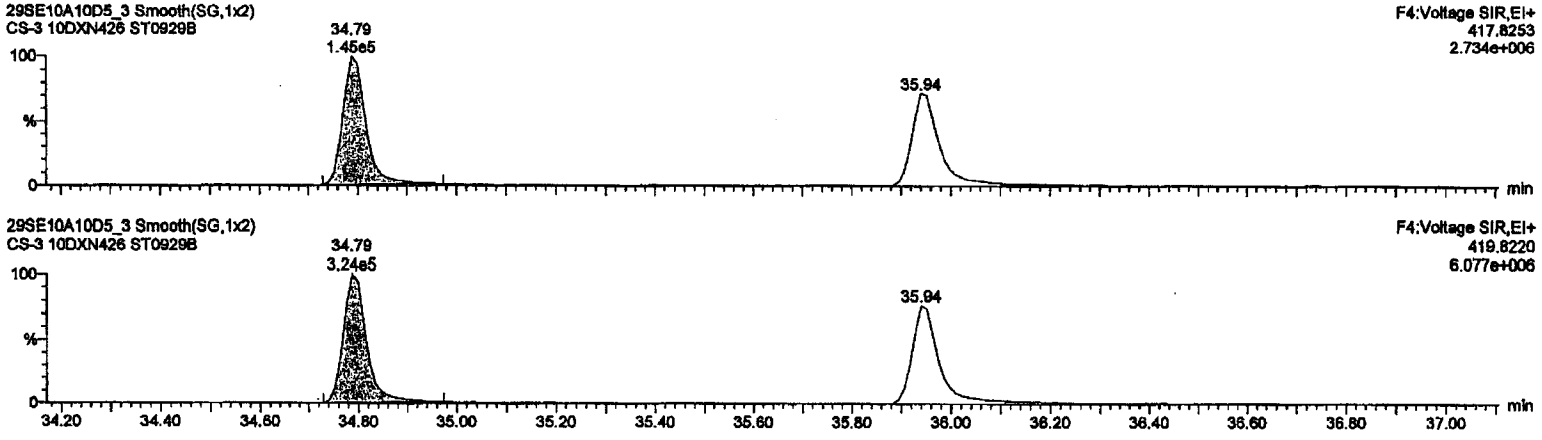
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

HpCDFs



13C-HpCDFs



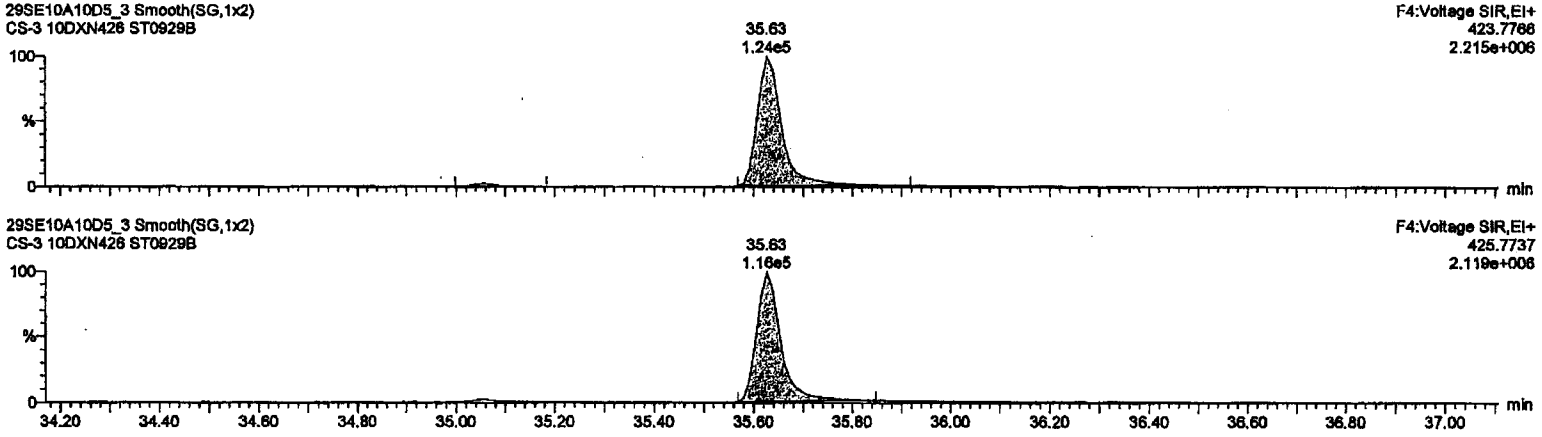
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

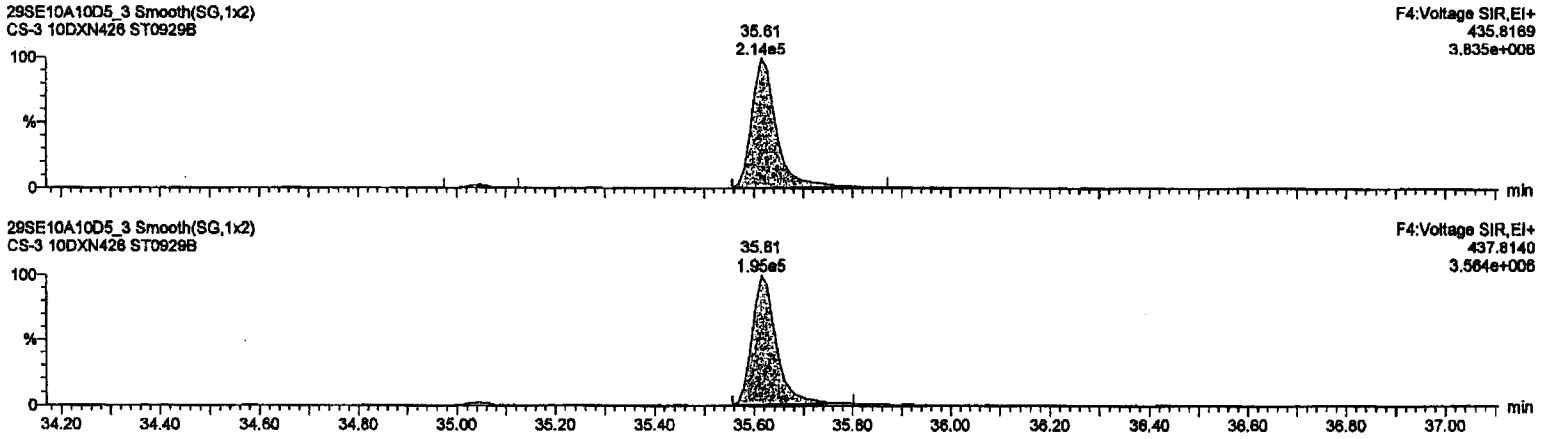
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



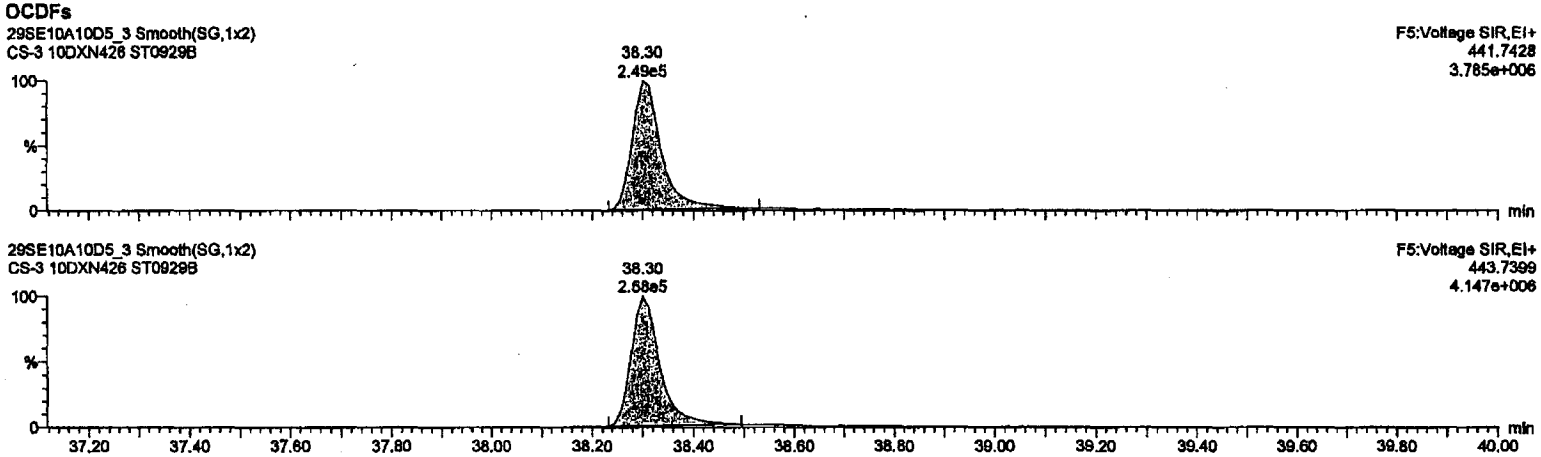
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

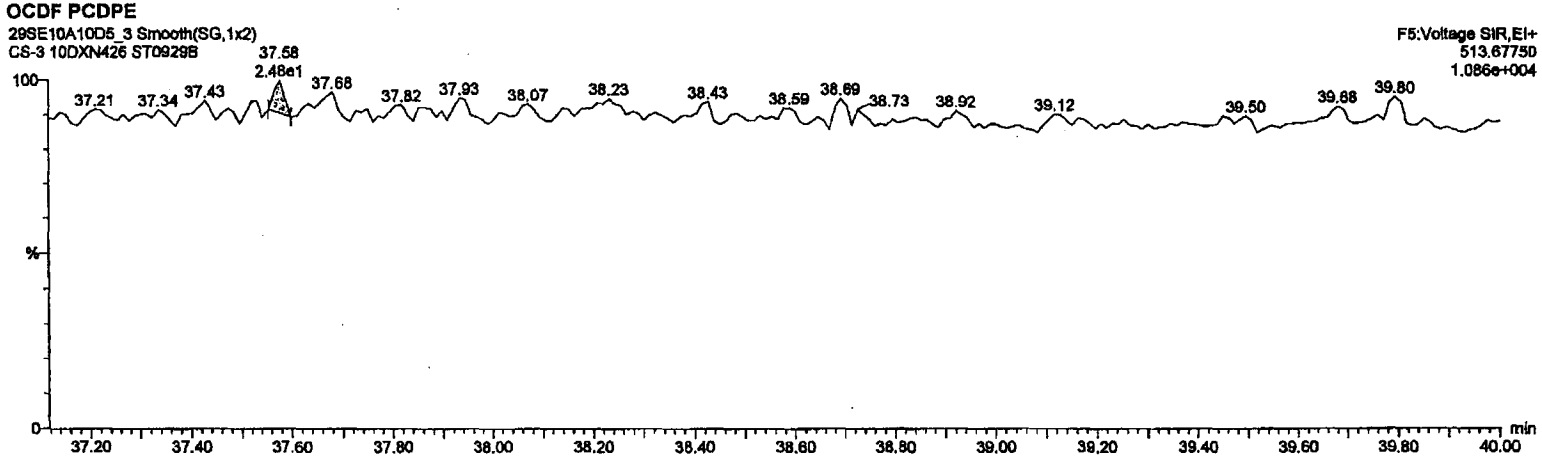
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

OCDFs



OCDF PCDPE



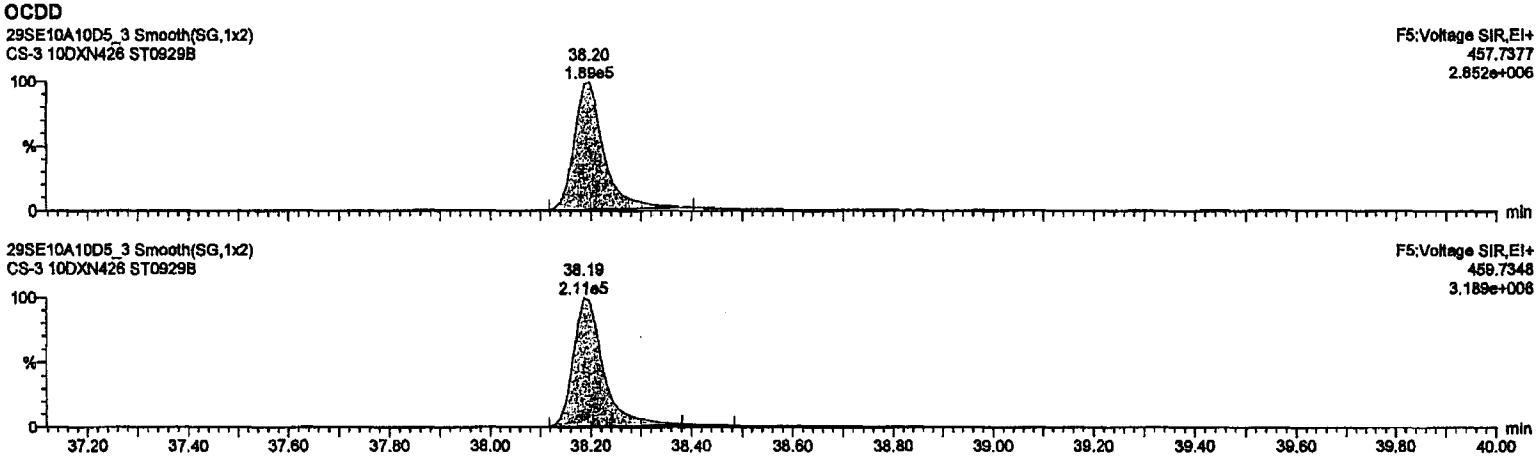
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

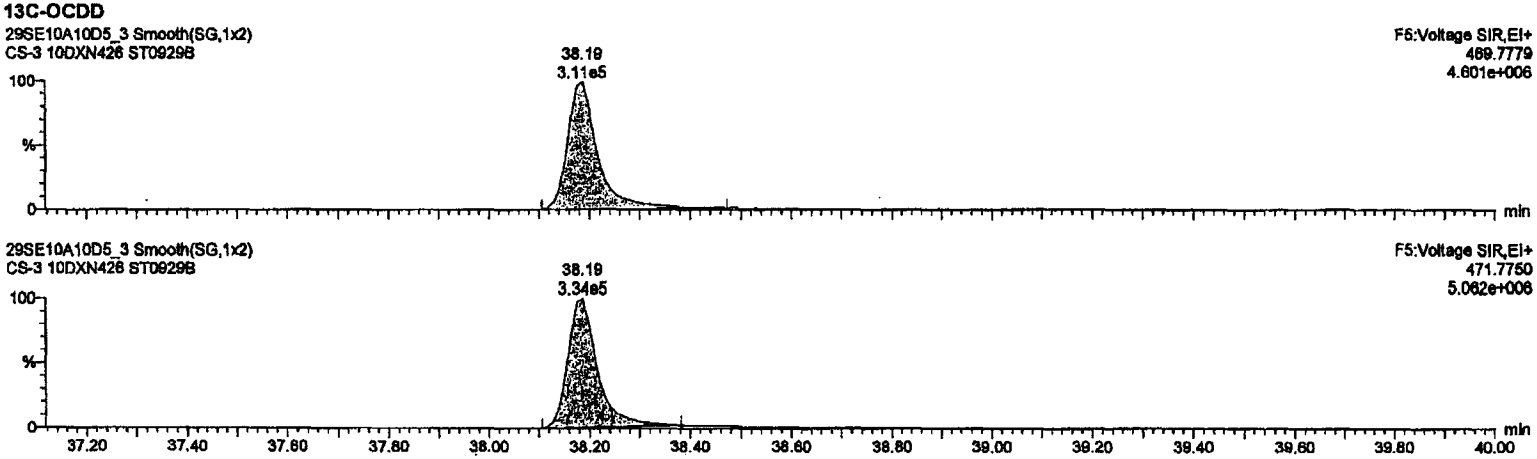
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

OCDD



13C-OCDD



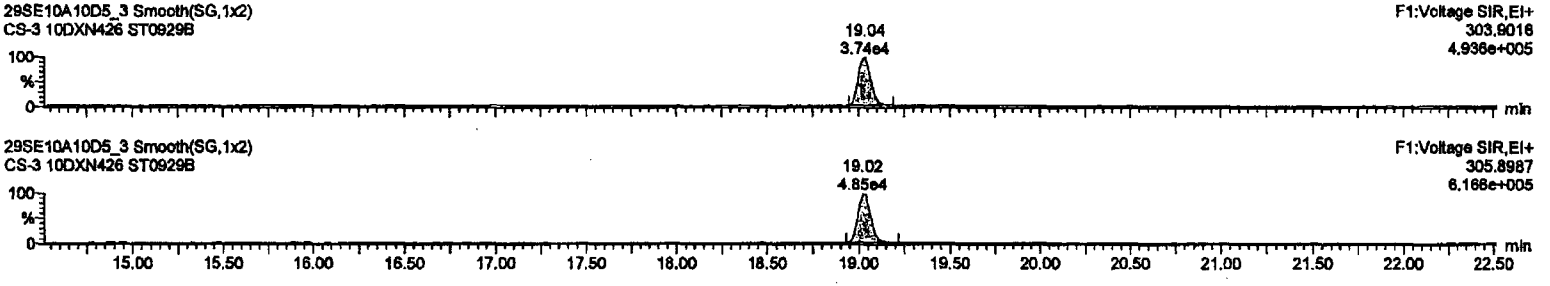
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

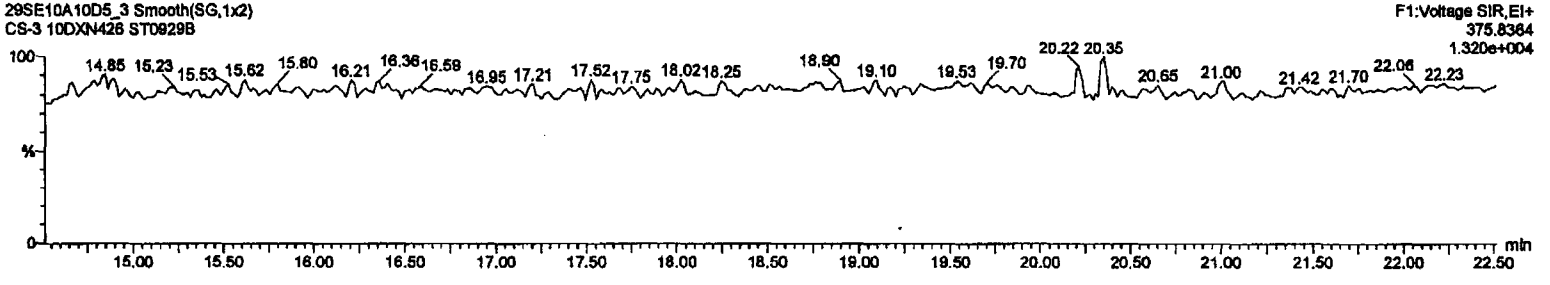
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

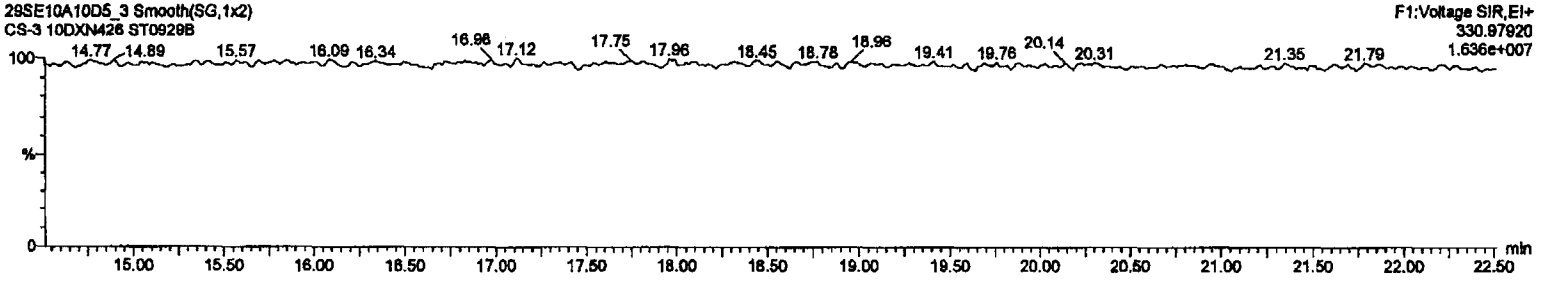
TCDFs



TCDF PCDPE



Function 1 PFK



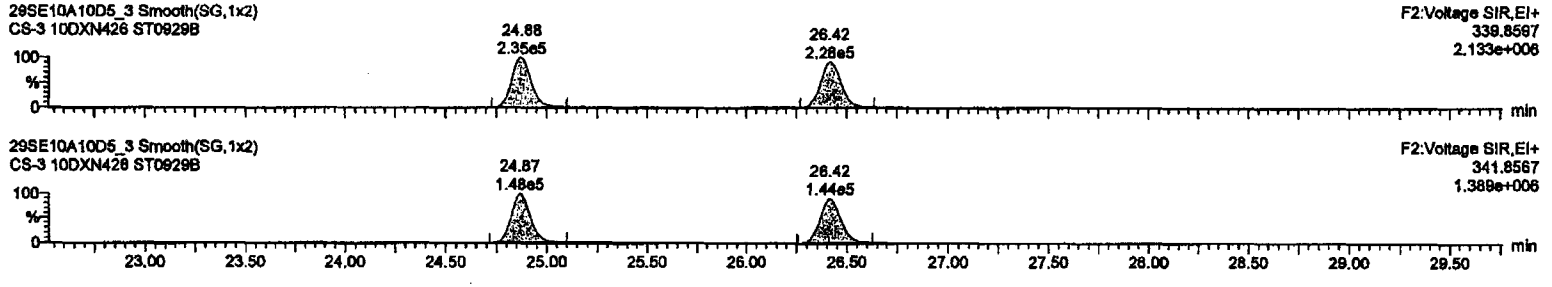
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

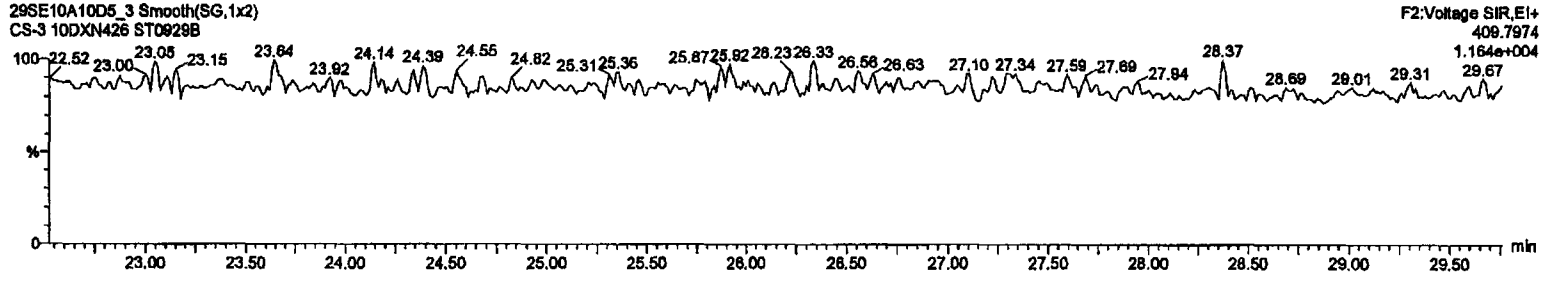
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

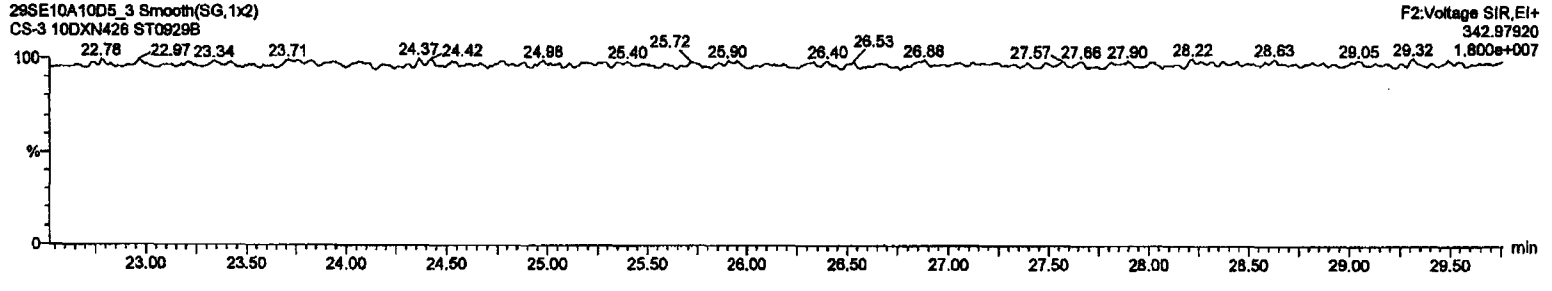
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



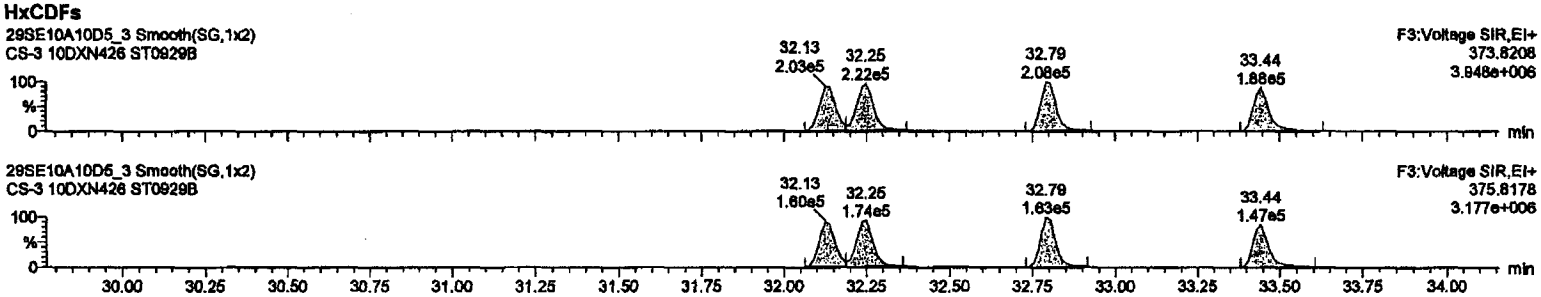
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

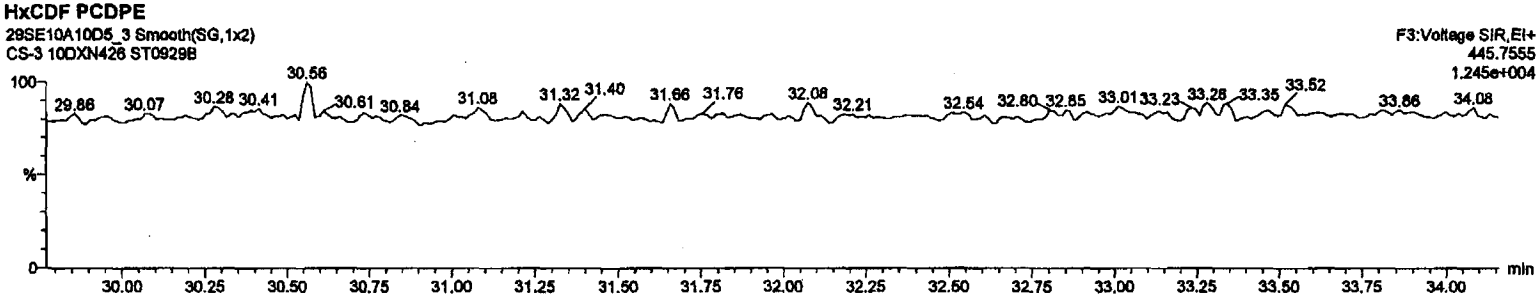
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

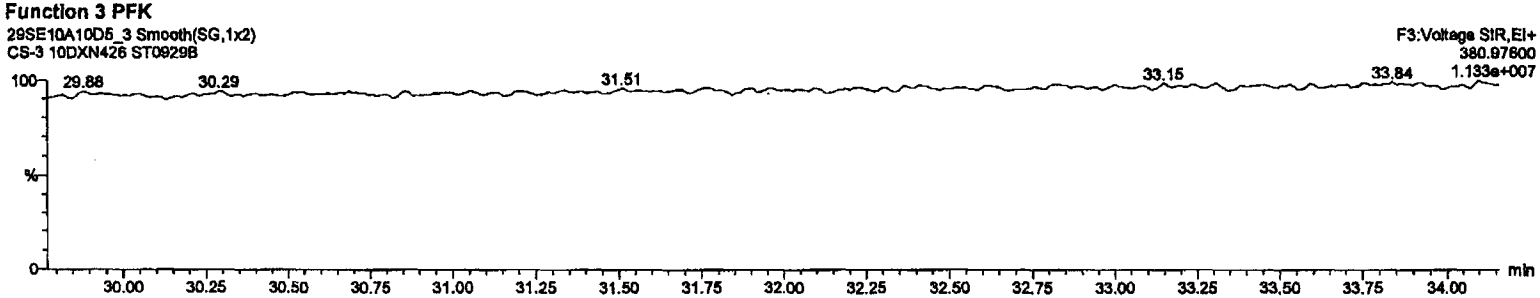
HxCDFs



HxCDF PCDPE



Function 3 PFK



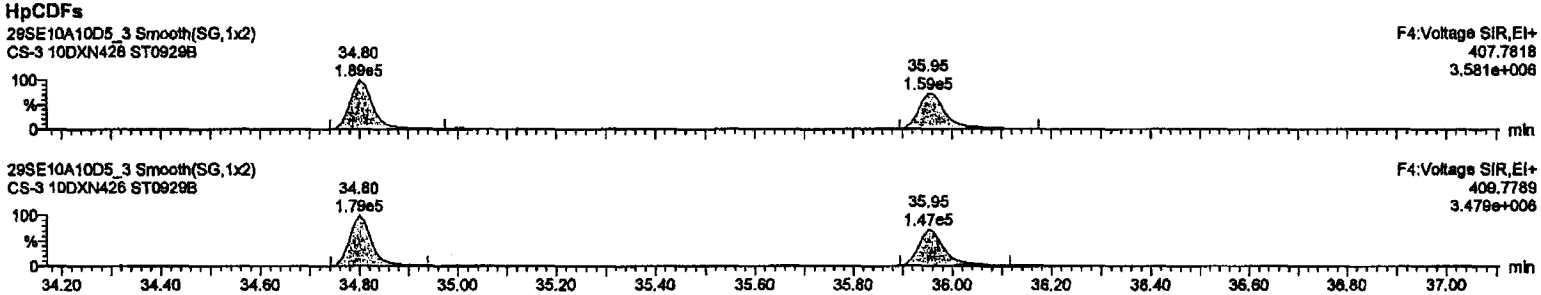
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

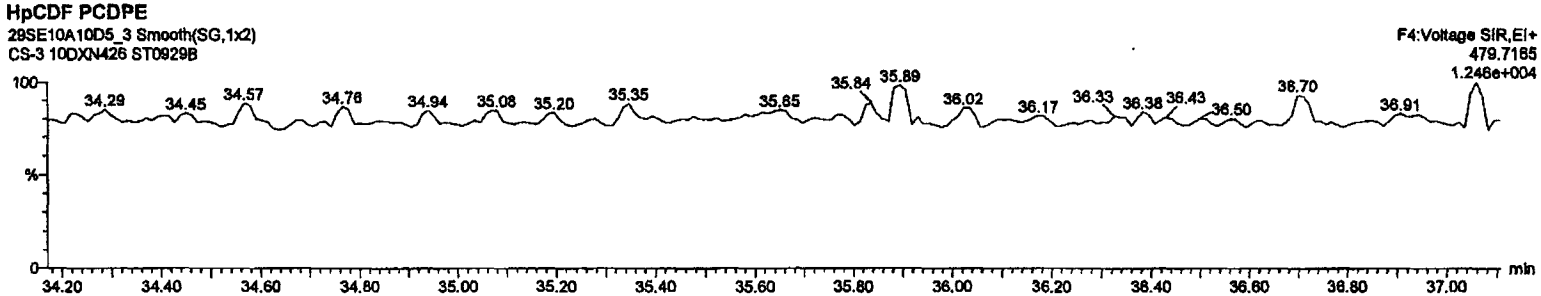
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

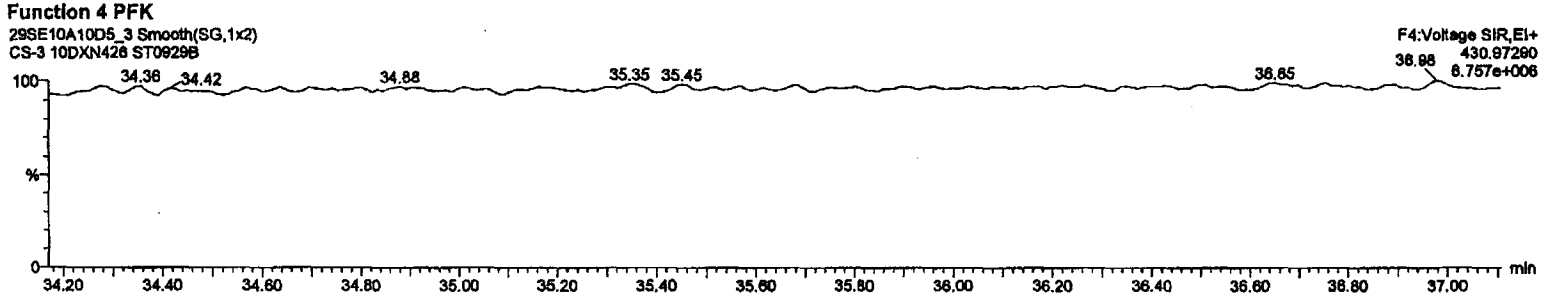
HpCDFs



HpCDF PCDPE



Function 4 PFK



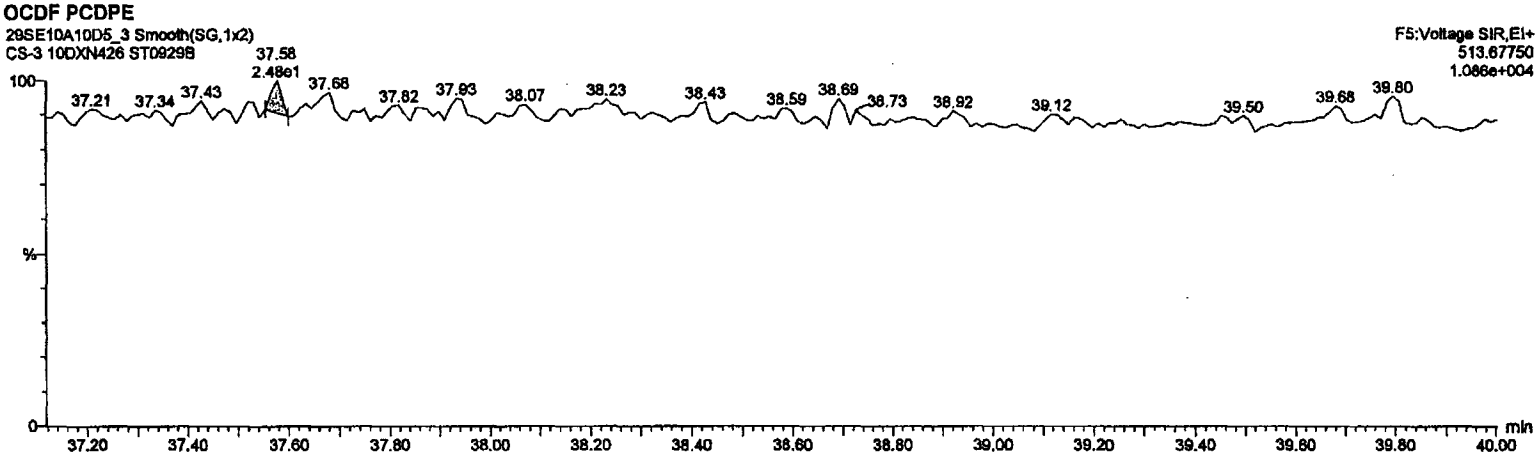
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

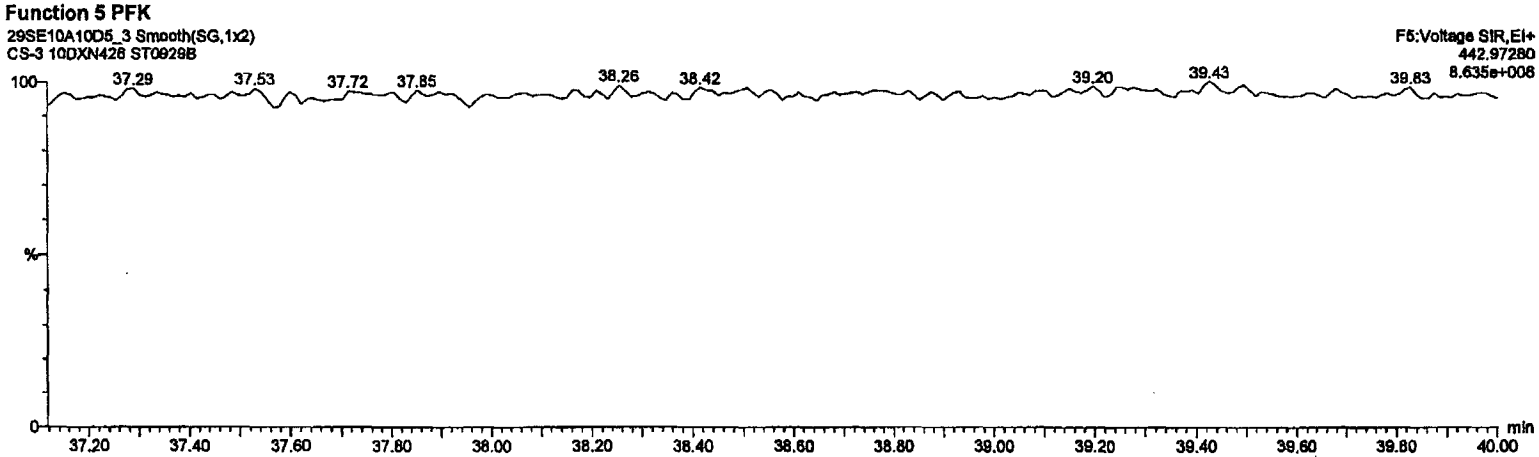
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_3, Date: 29-Sep-2010, Time: 20:15:39, ID: ST0929B, Description: CS-3 10DXN426

OCDF PCDPE



Function 5 PFK



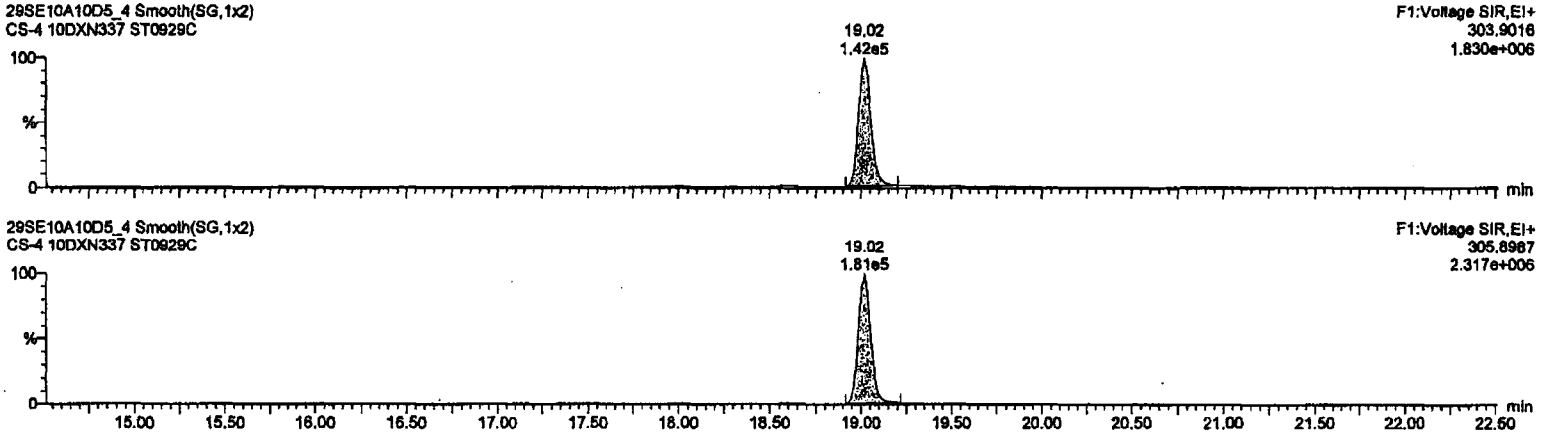
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

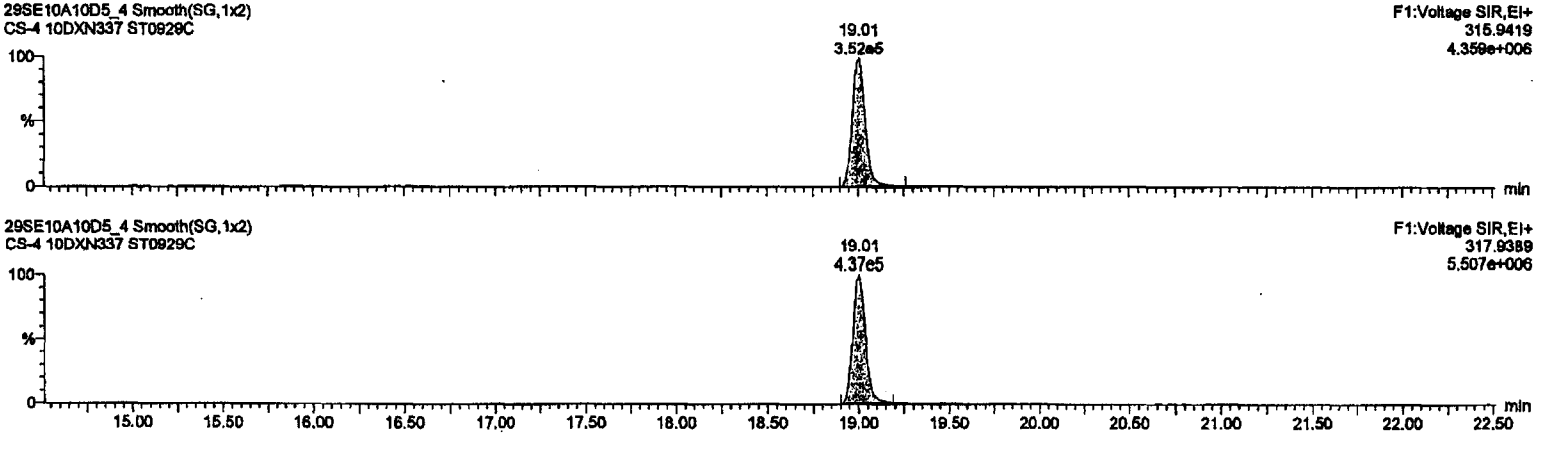
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

TCDFs



13C-TCDF



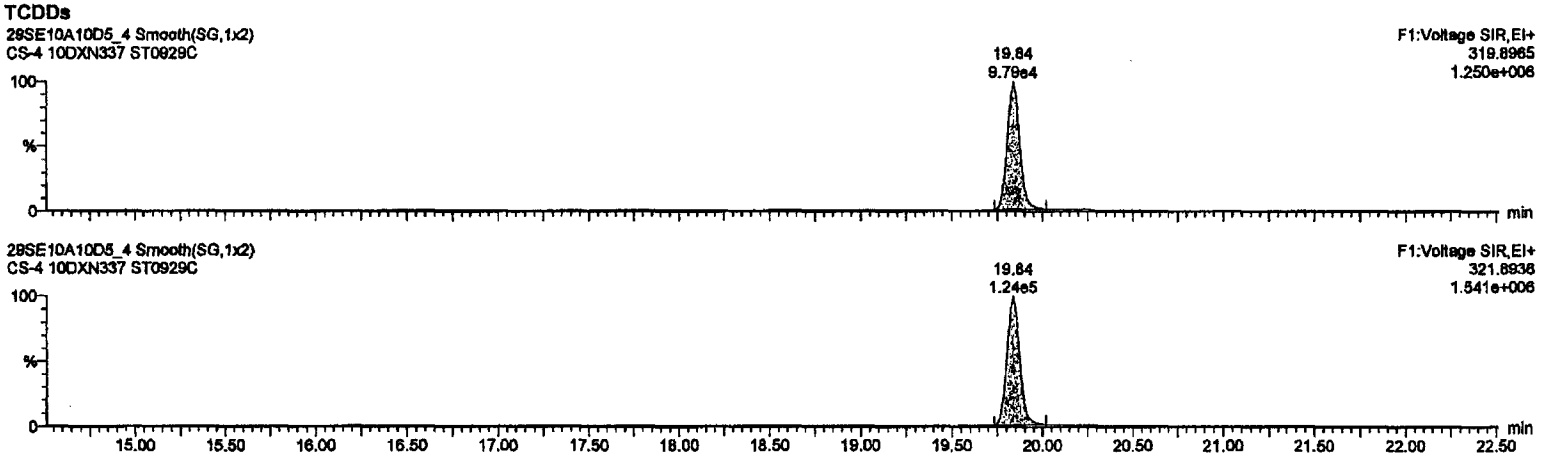
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

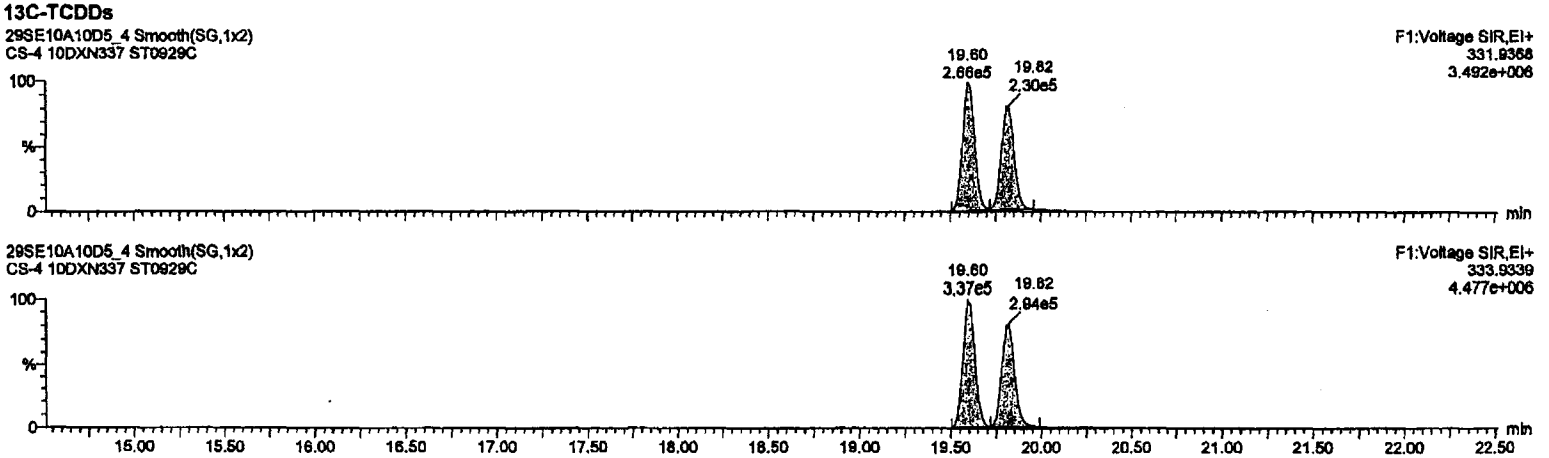
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

TCDDs



13C-TCDDs



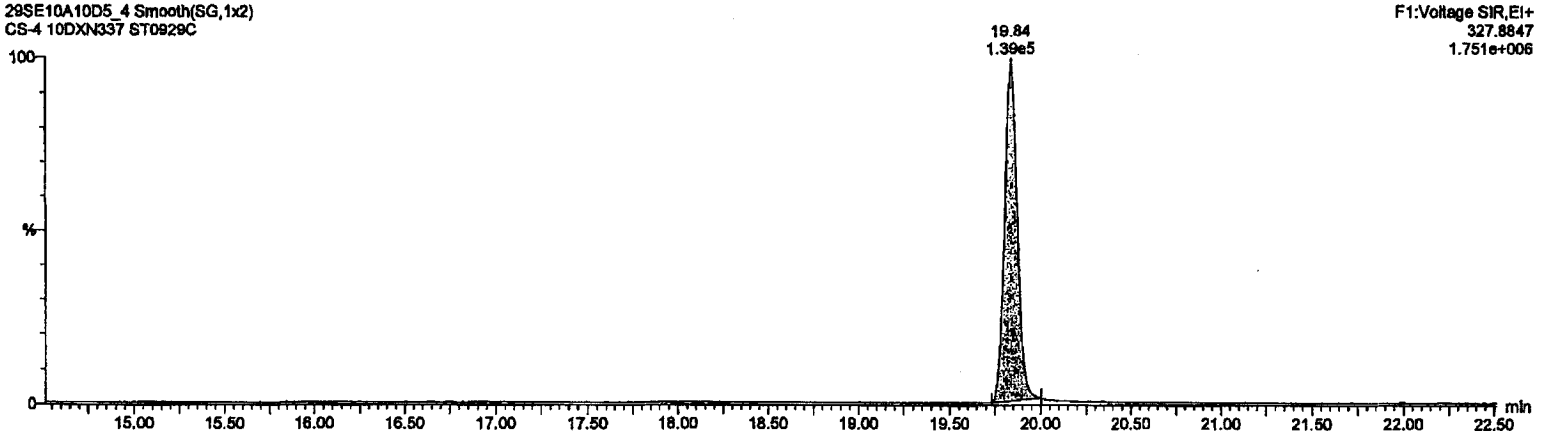
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

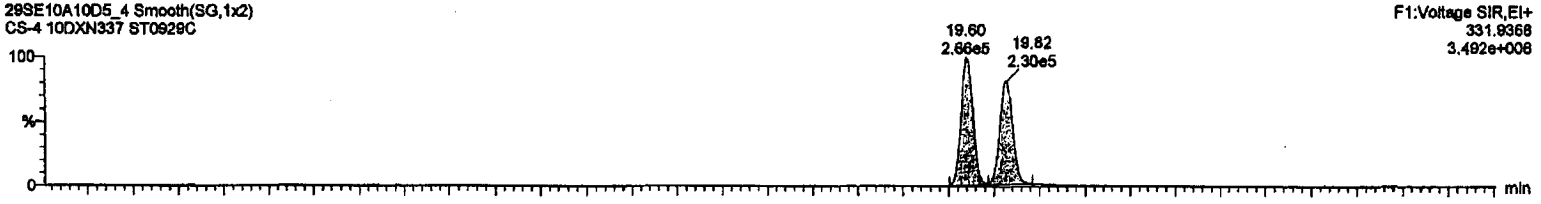
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

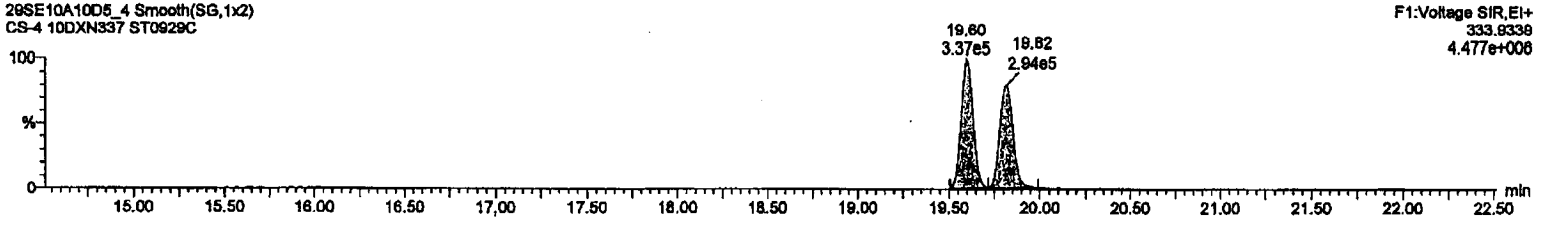
Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

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



13C-TCDDs





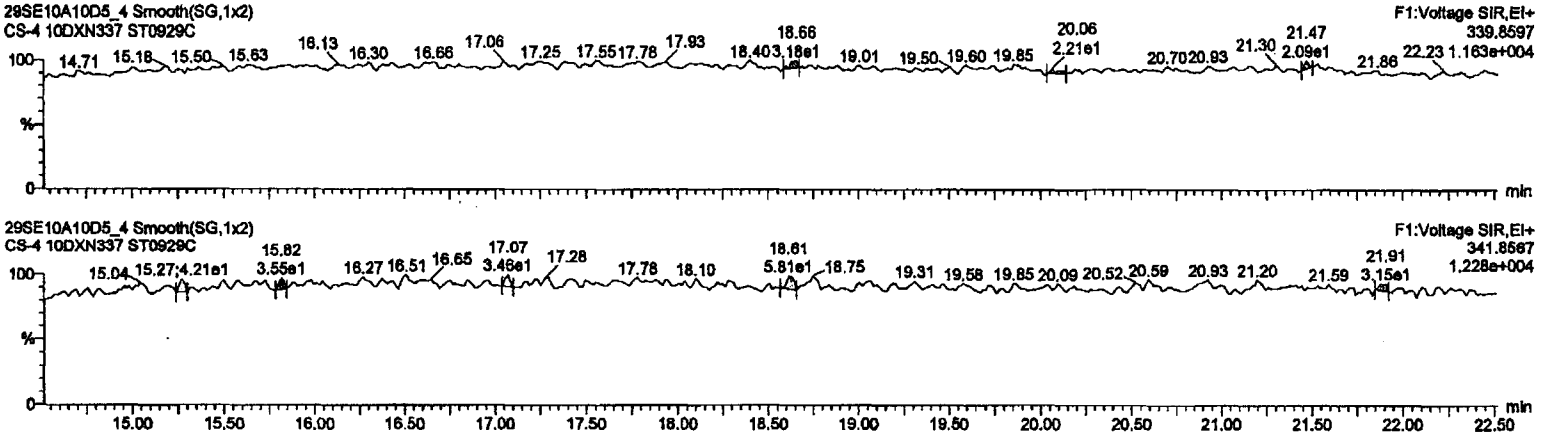
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

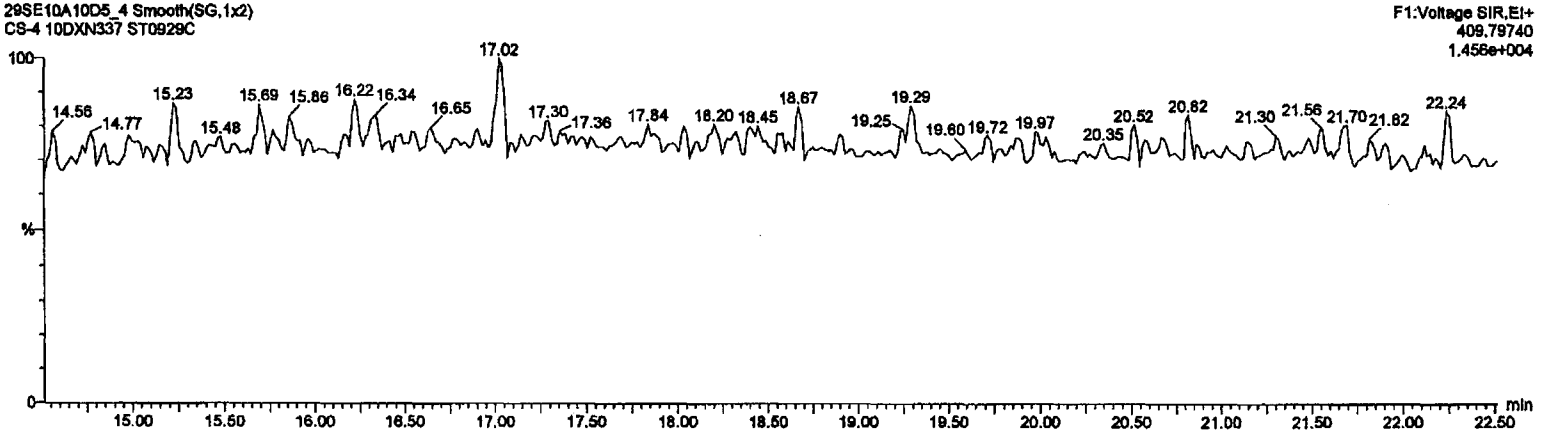
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

F1 PeCDFs



F1 PeCDF PCDPE



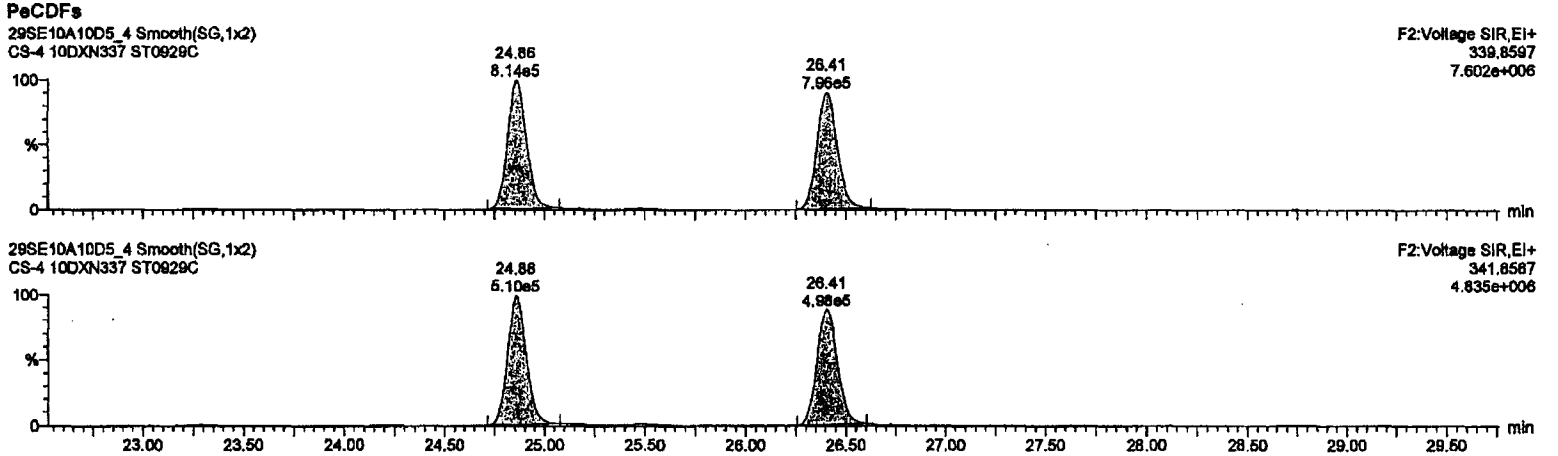
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

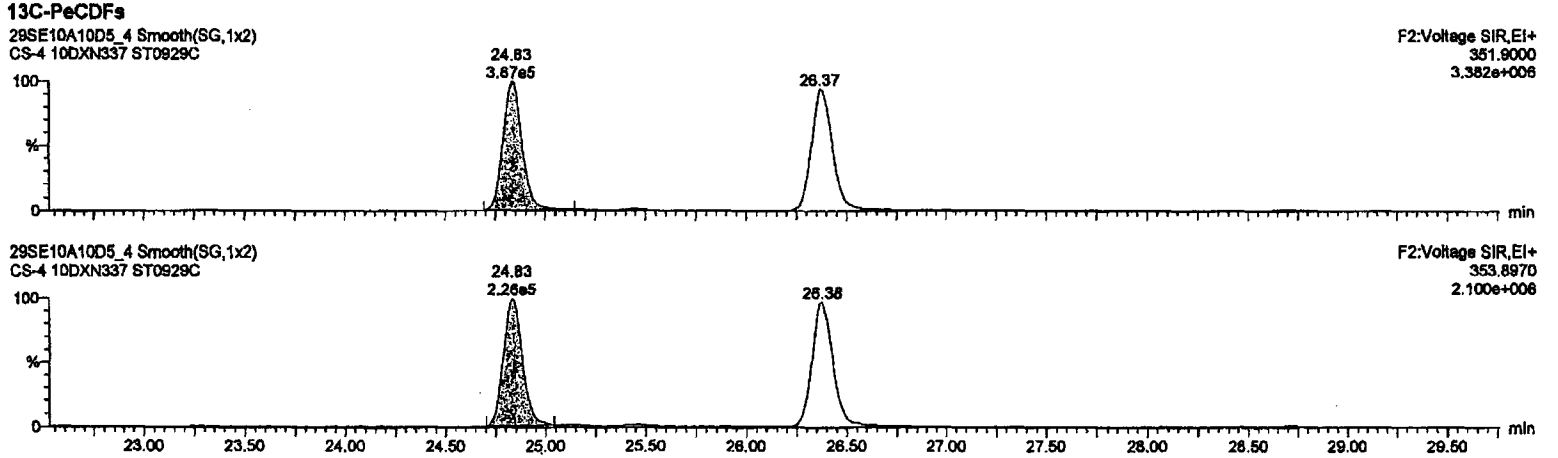
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

PeCDFs



13C-PeCDFs



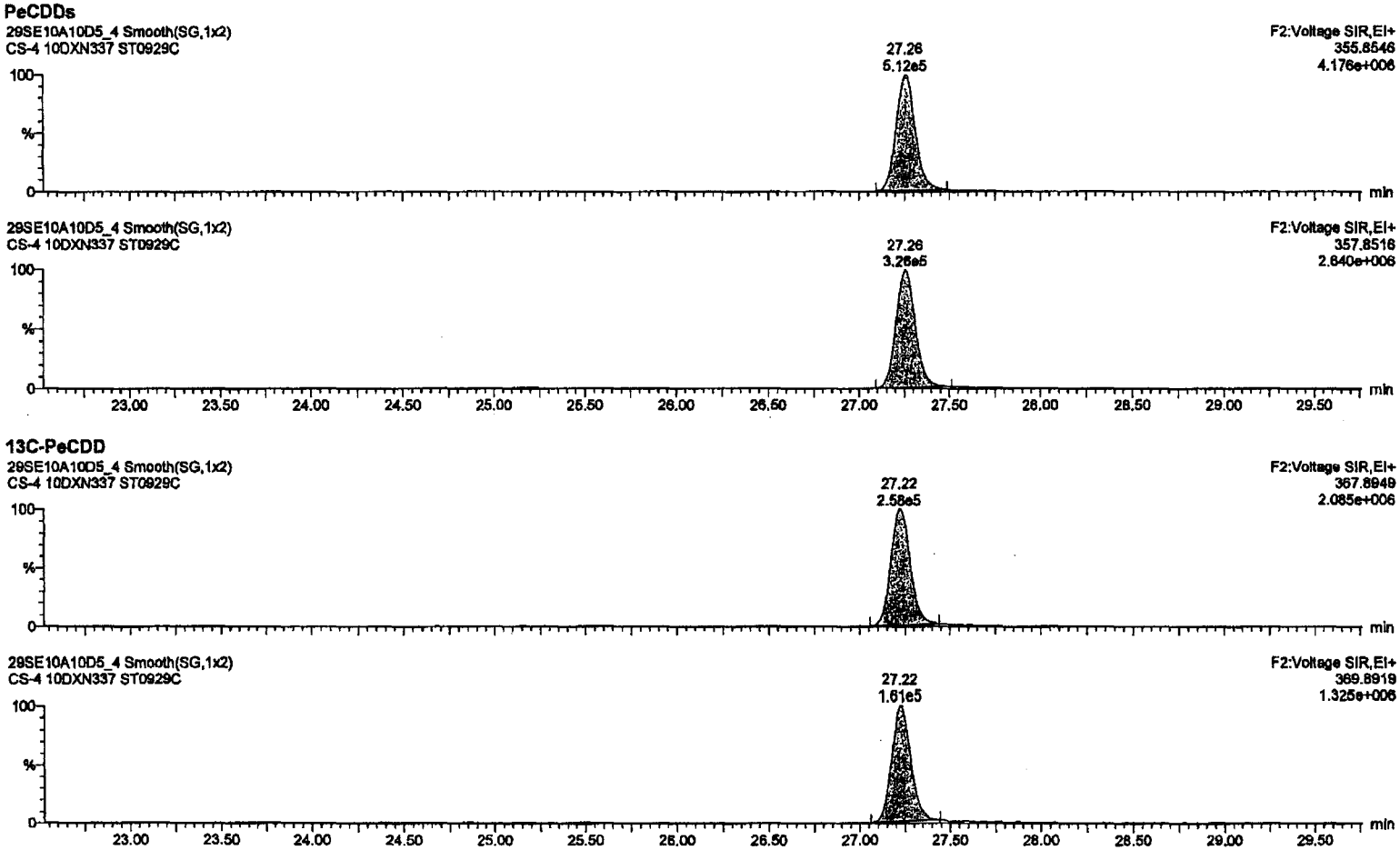
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

PeCDDs



13C-PeCDD

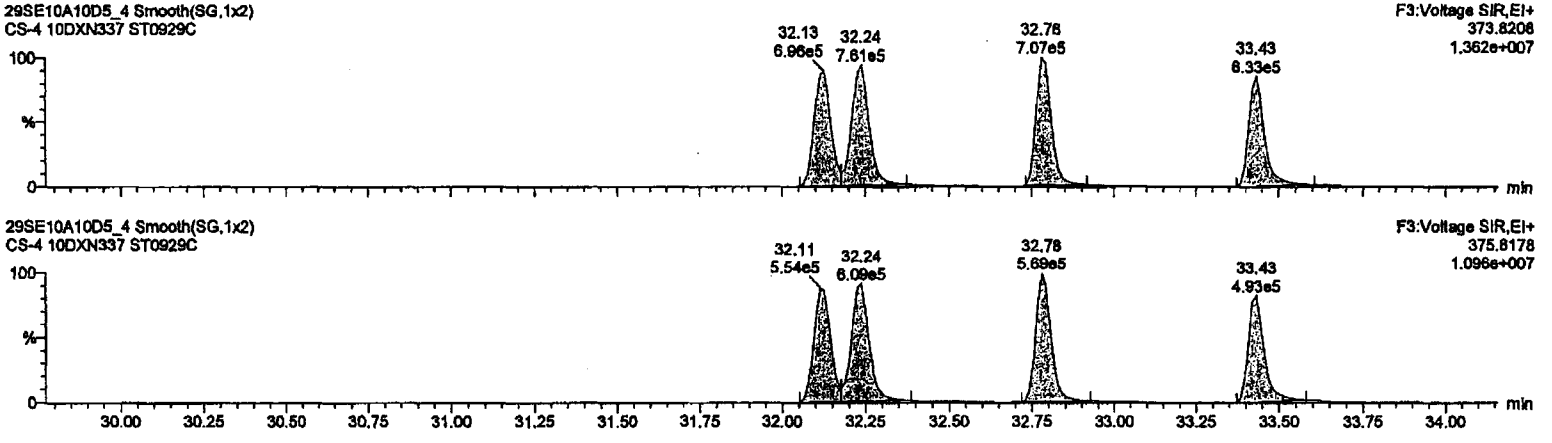
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

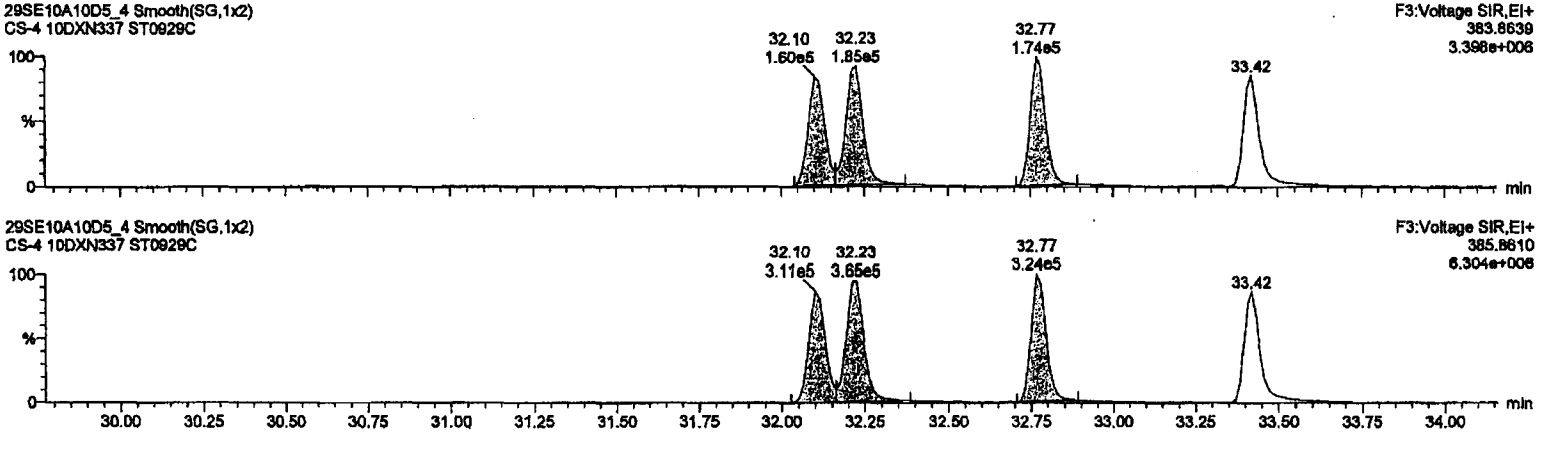
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

HxCDFs



13C-HxCDFs



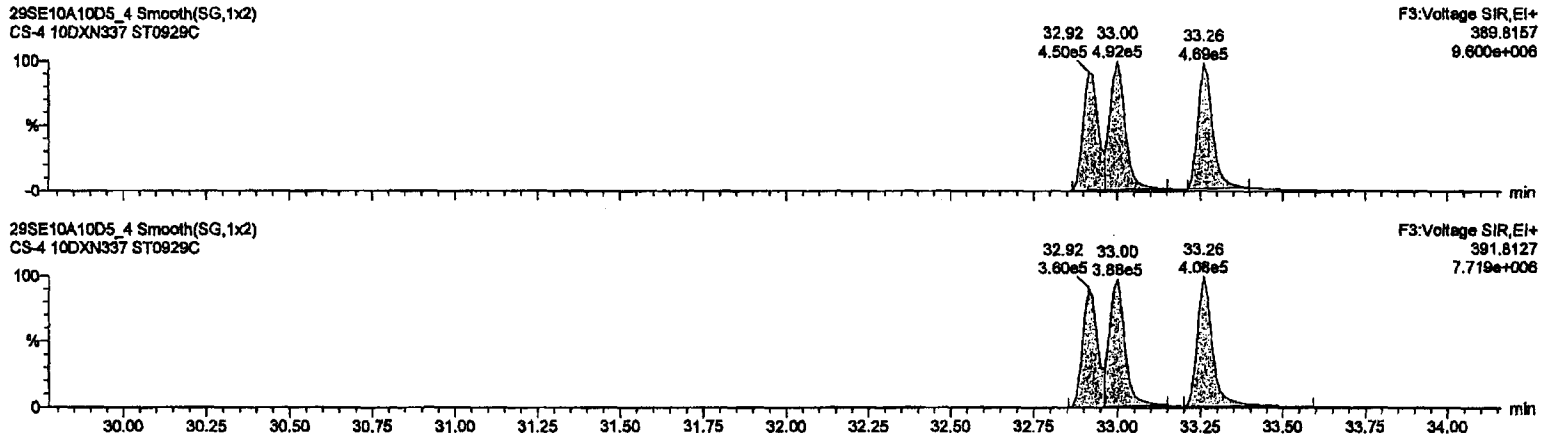
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

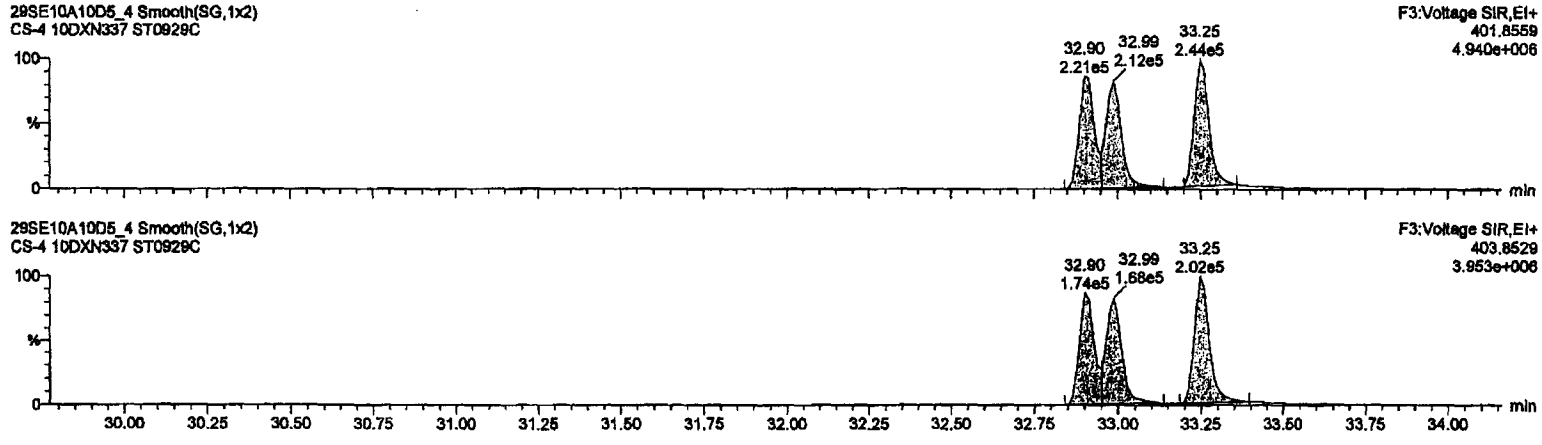
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

HxCDDs



13C-1,2,3,6,7,8-HxCDD



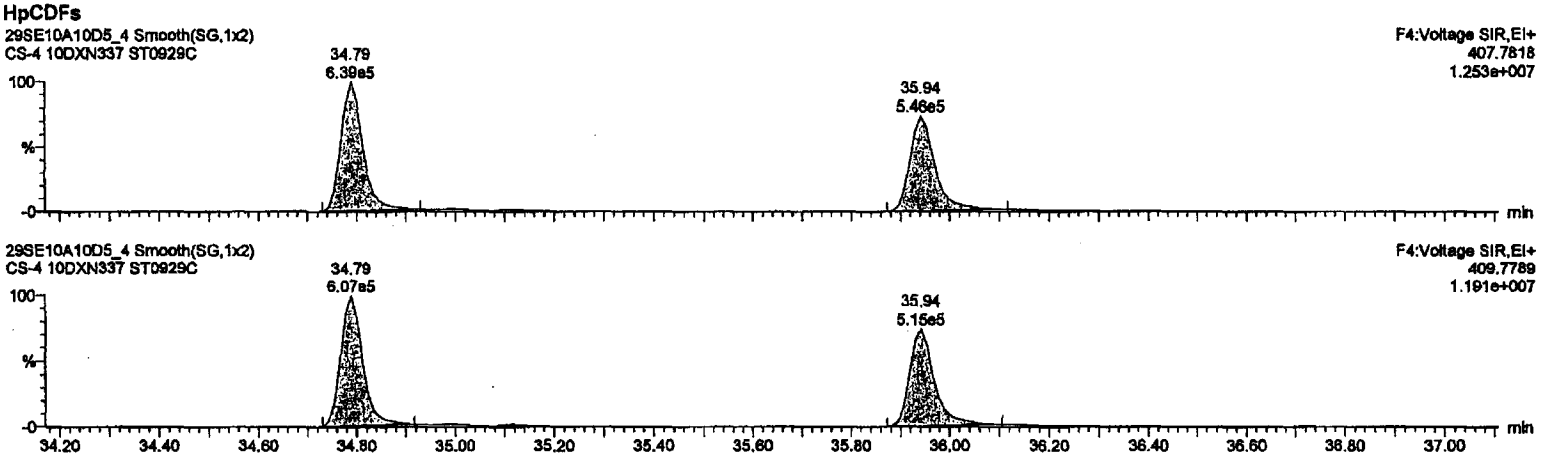
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

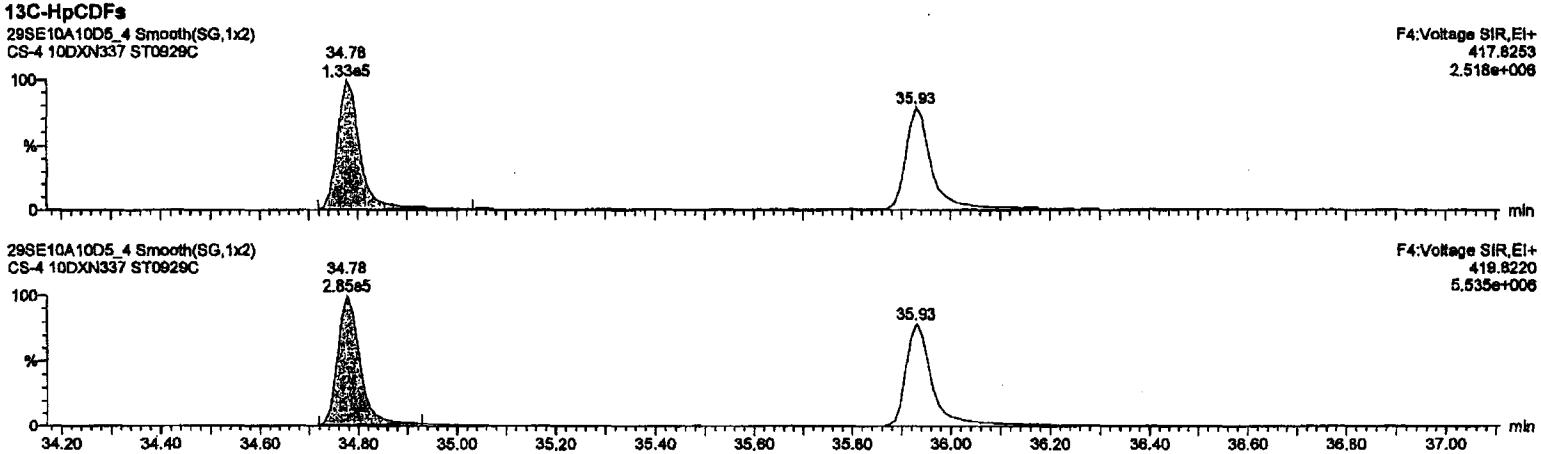
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

HpCDFs



13C-HpCDFs



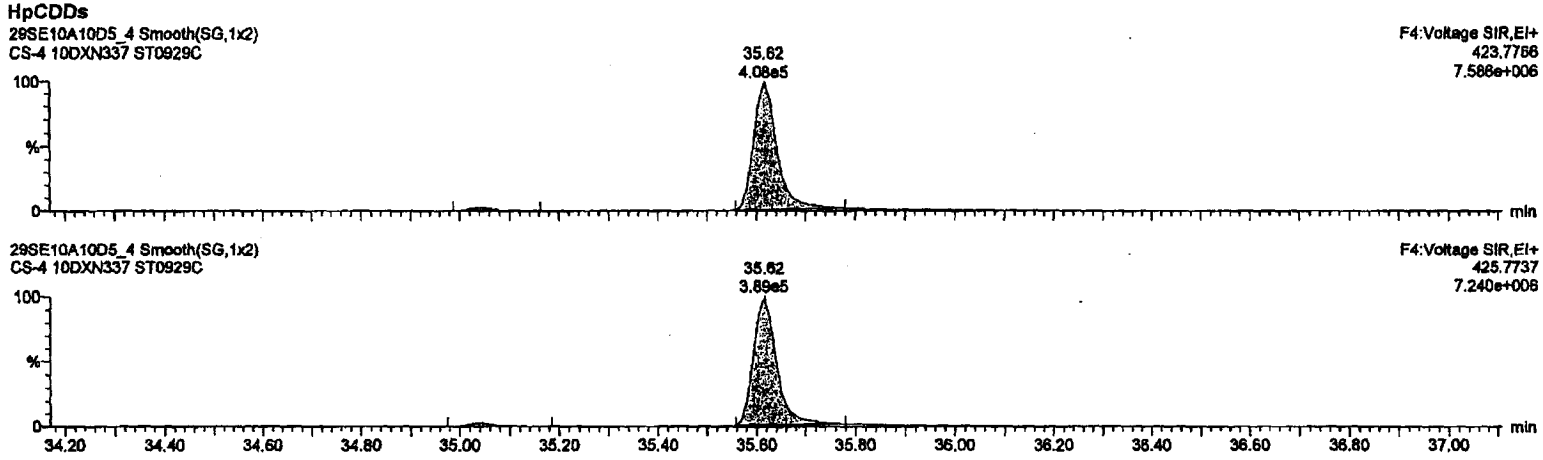
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

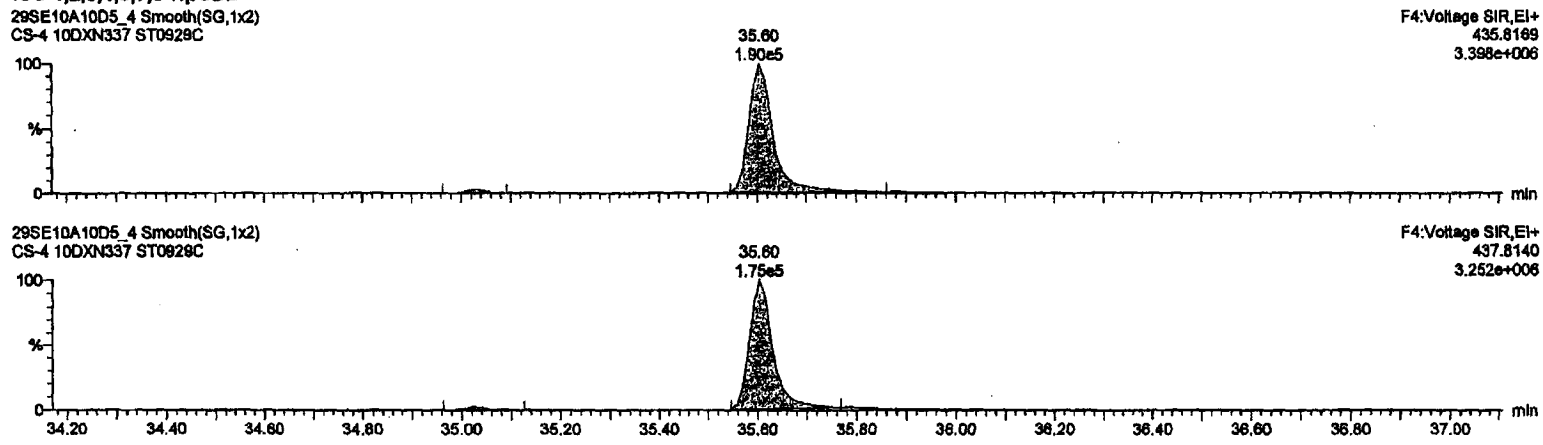
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



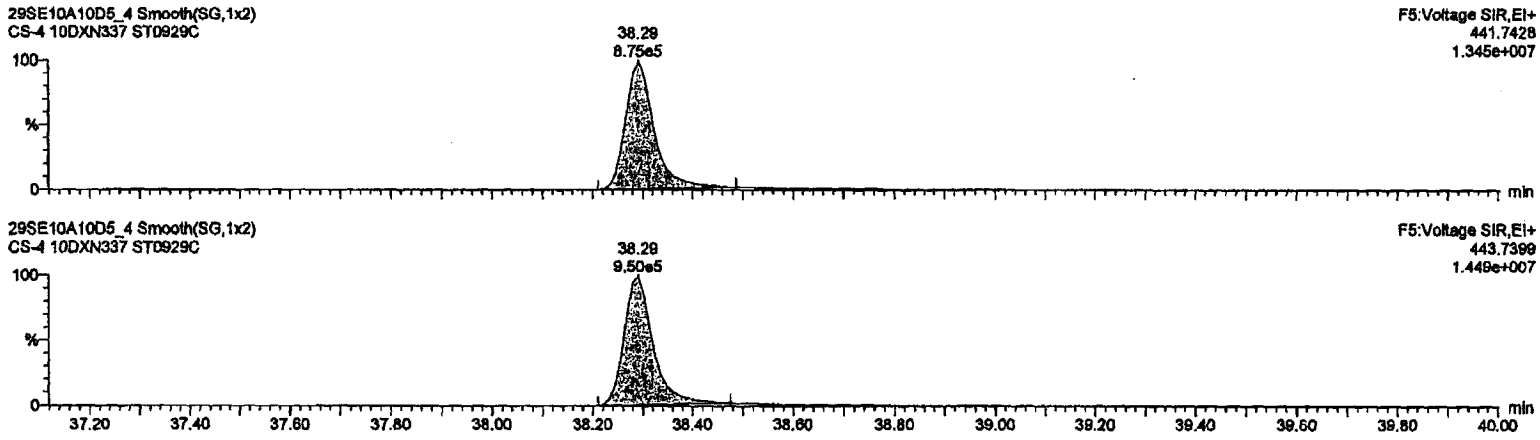
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

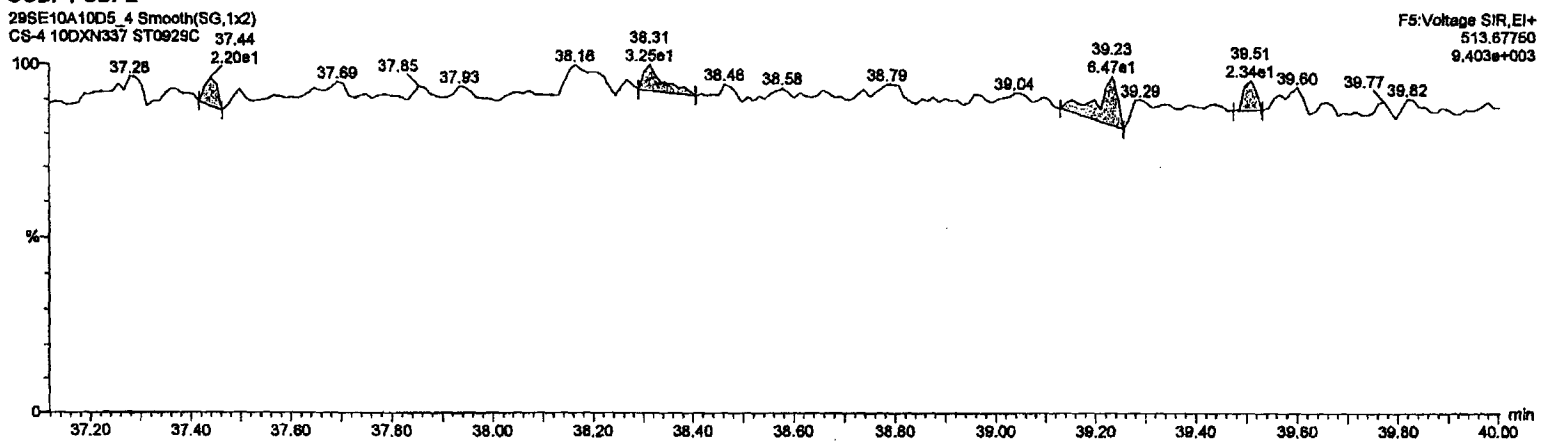
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

OCDFs



OCDF PCDPE



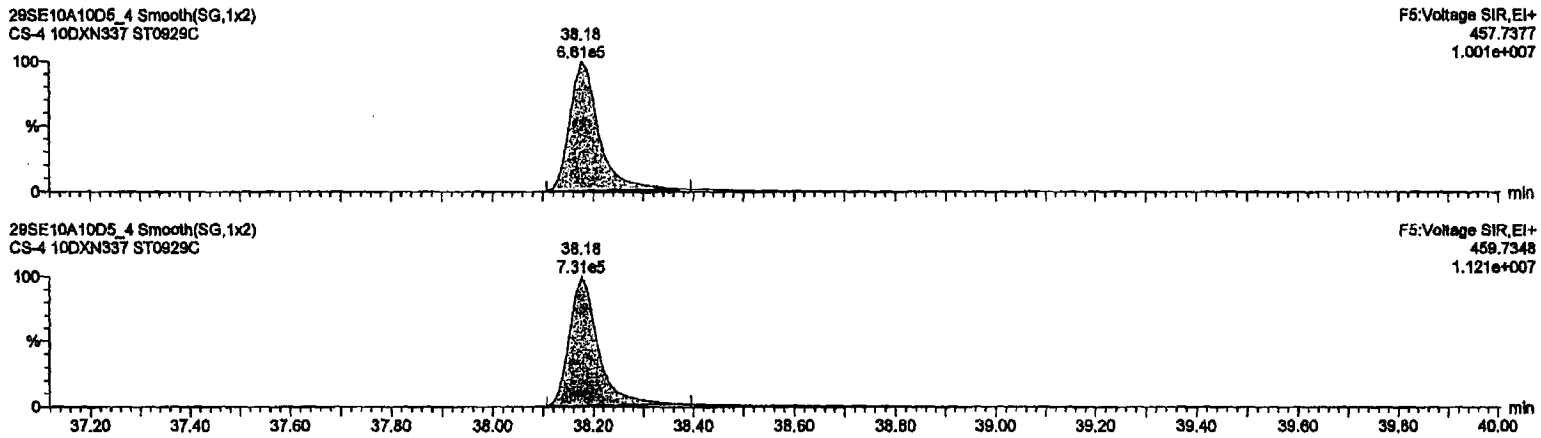
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

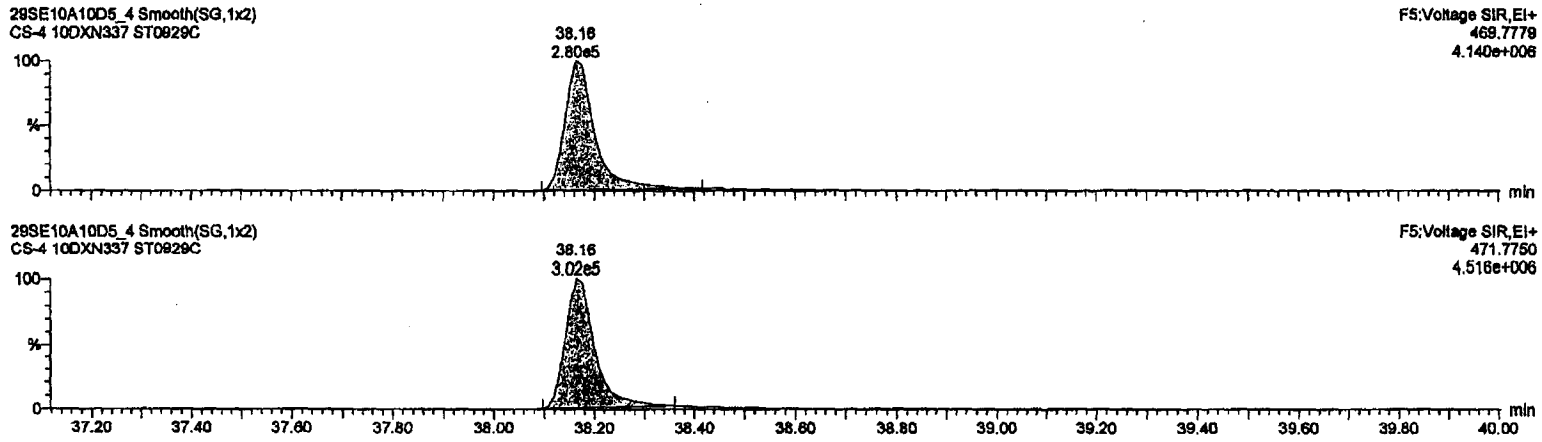
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

OCDD



13C-OCDD



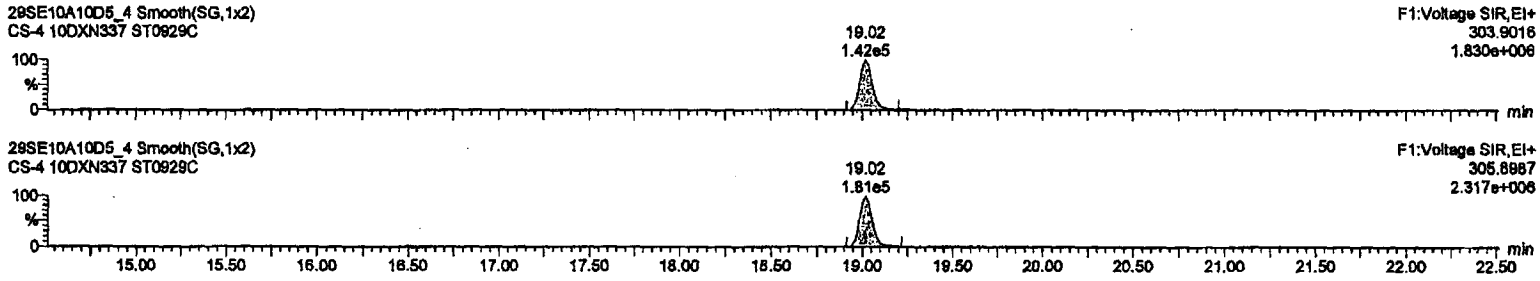
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

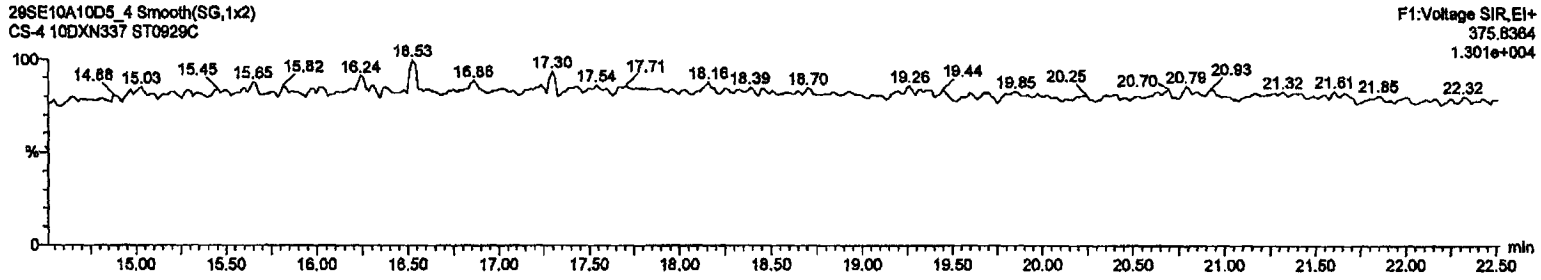
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

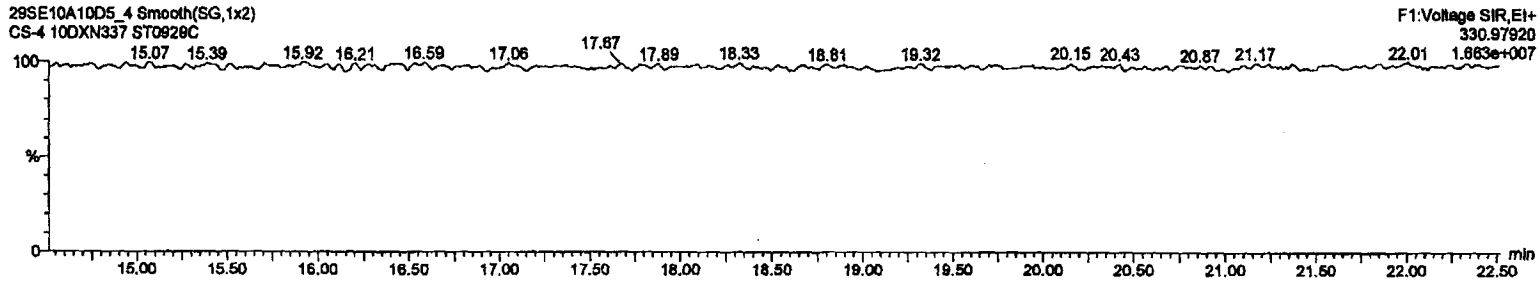
TCDFs



TCDF PCDPE



Function 1 PFK



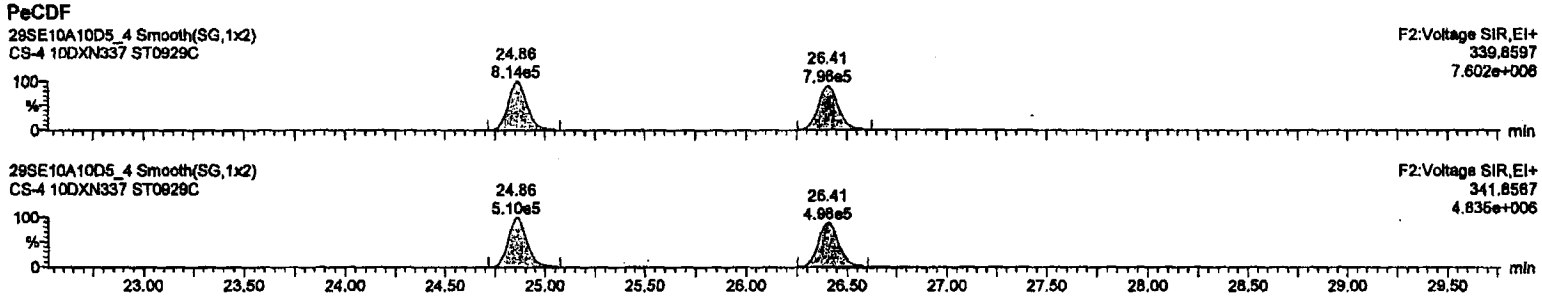
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

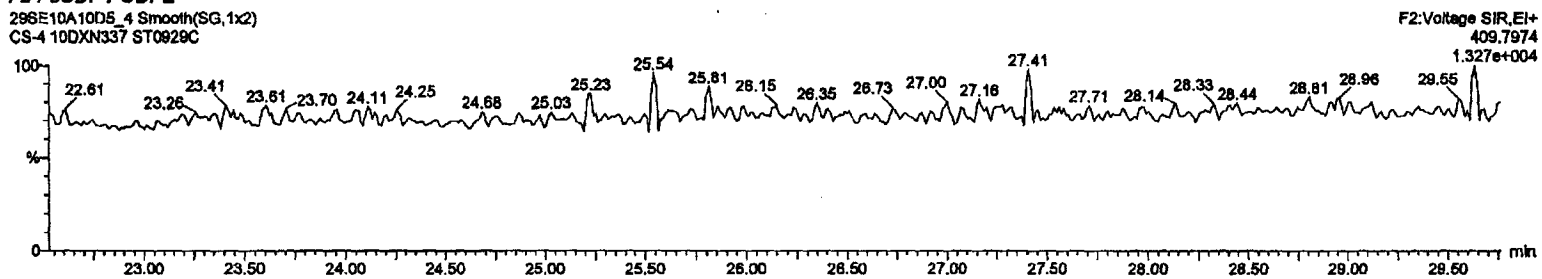
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

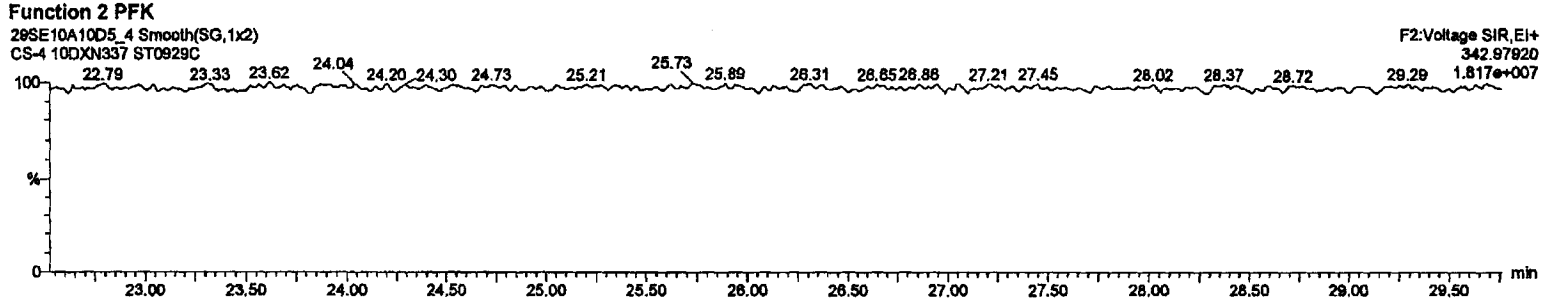
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



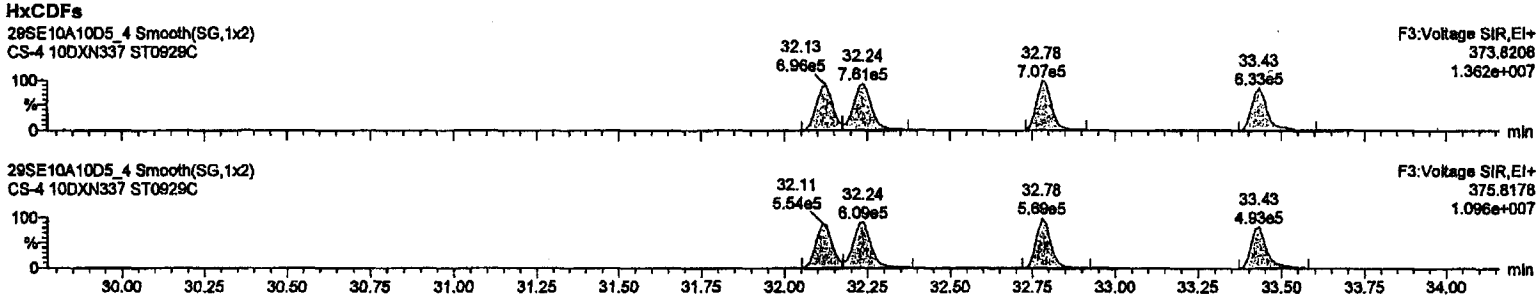
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

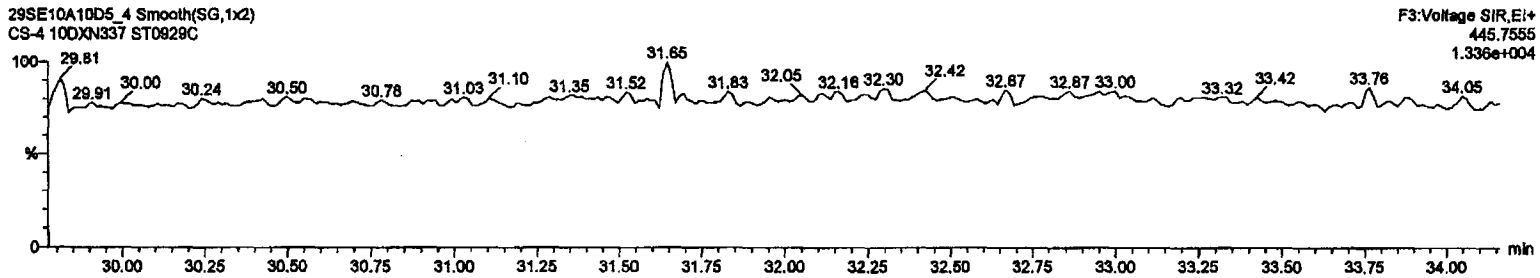
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

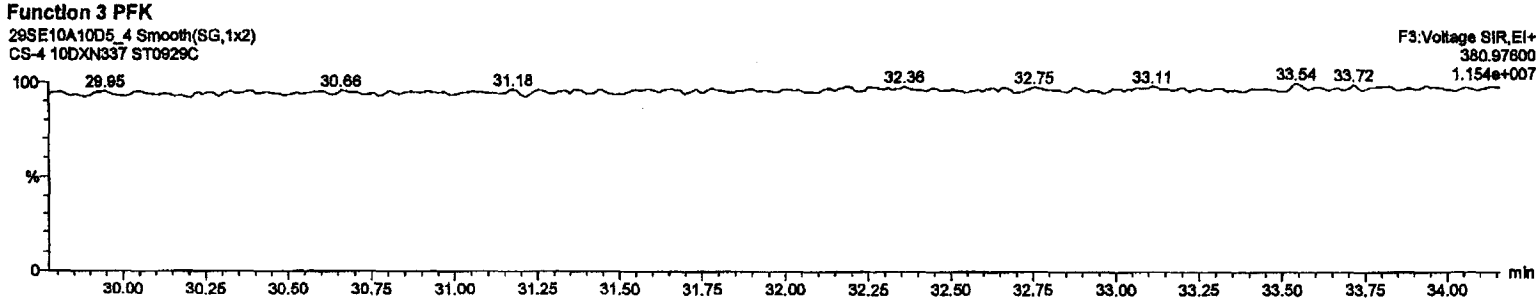
HxCDFs



HxCDF PCDPE



Function 3 PFK



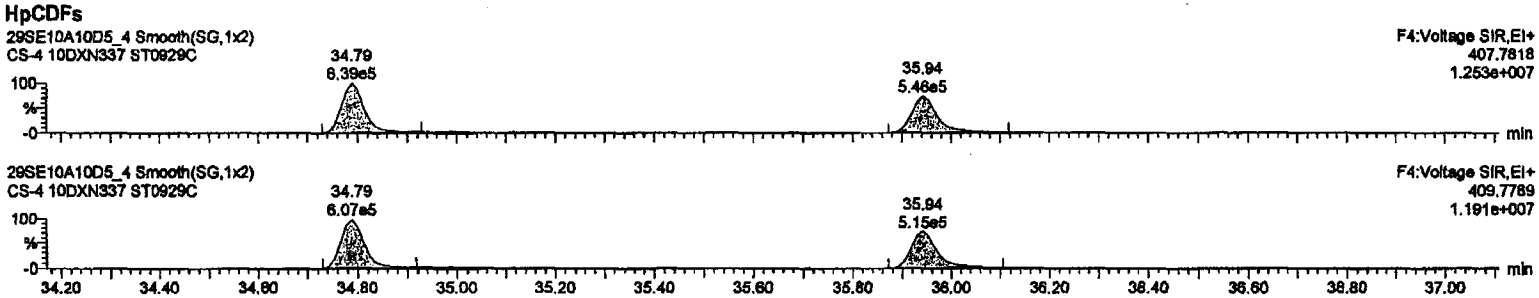
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

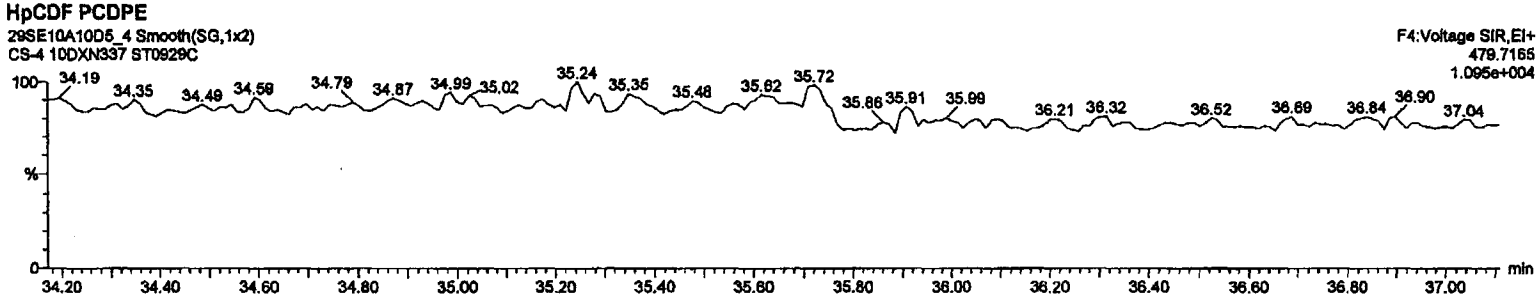
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

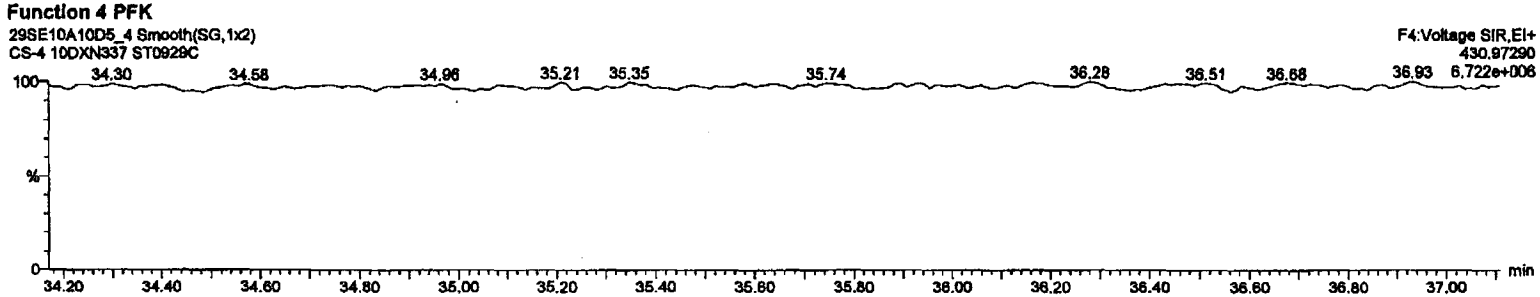
HpCDFs



HpCDF PCDPE



Function 4 PFK



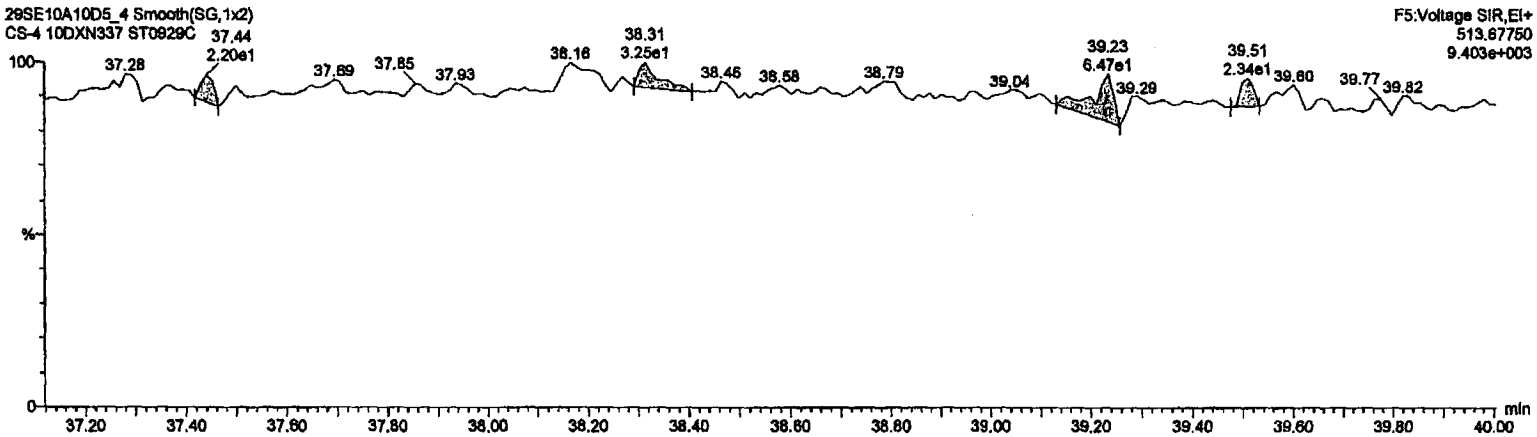
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

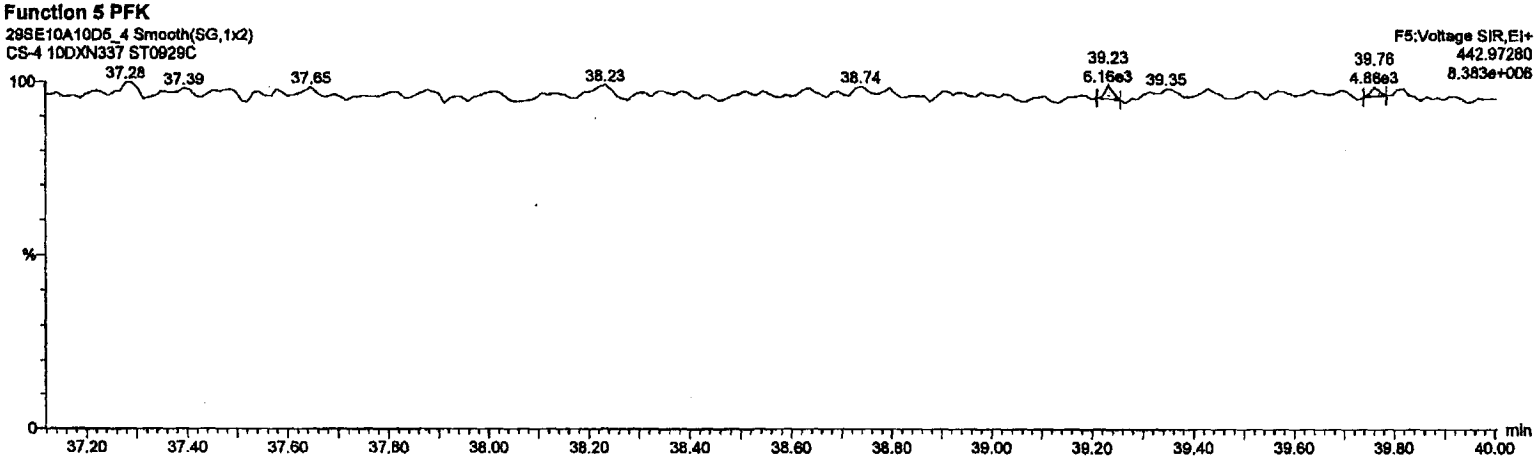
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_4, Date: 29-Sep-2010, Time: 20:57:26, ID: ST0929C, Description: CS-4 10DXN337

OCDF PCDPE



Function 5 PFK



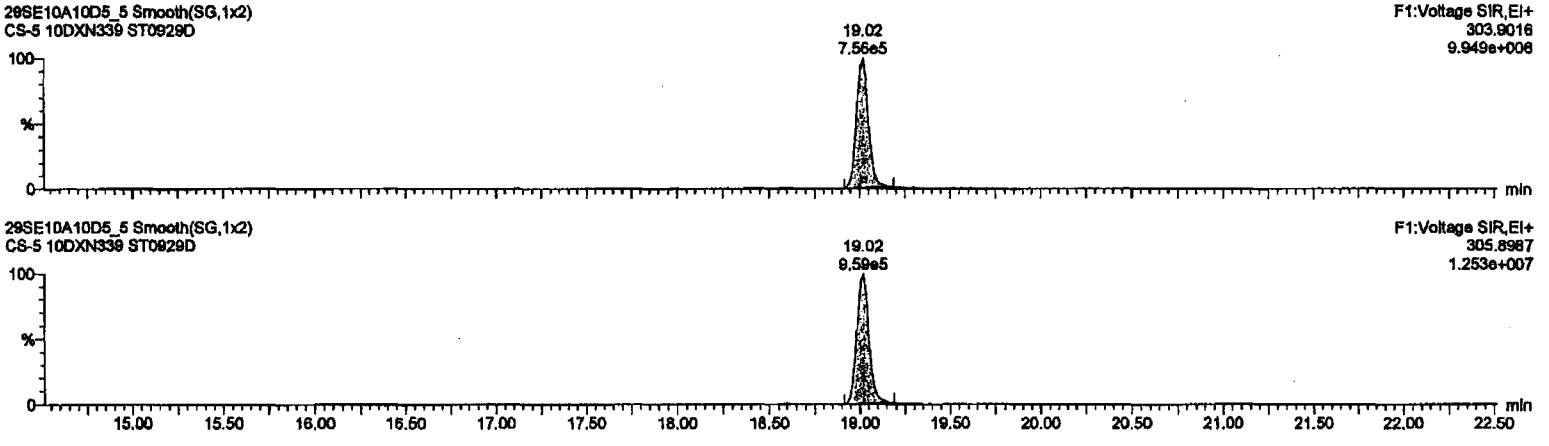
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

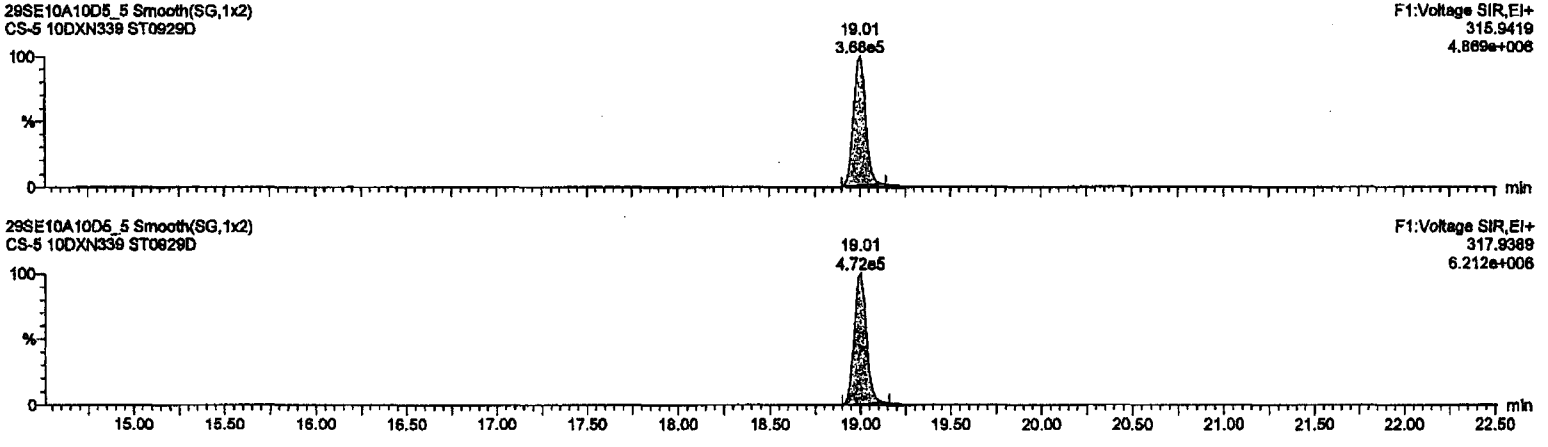
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

TCDFs



13C-TCDF



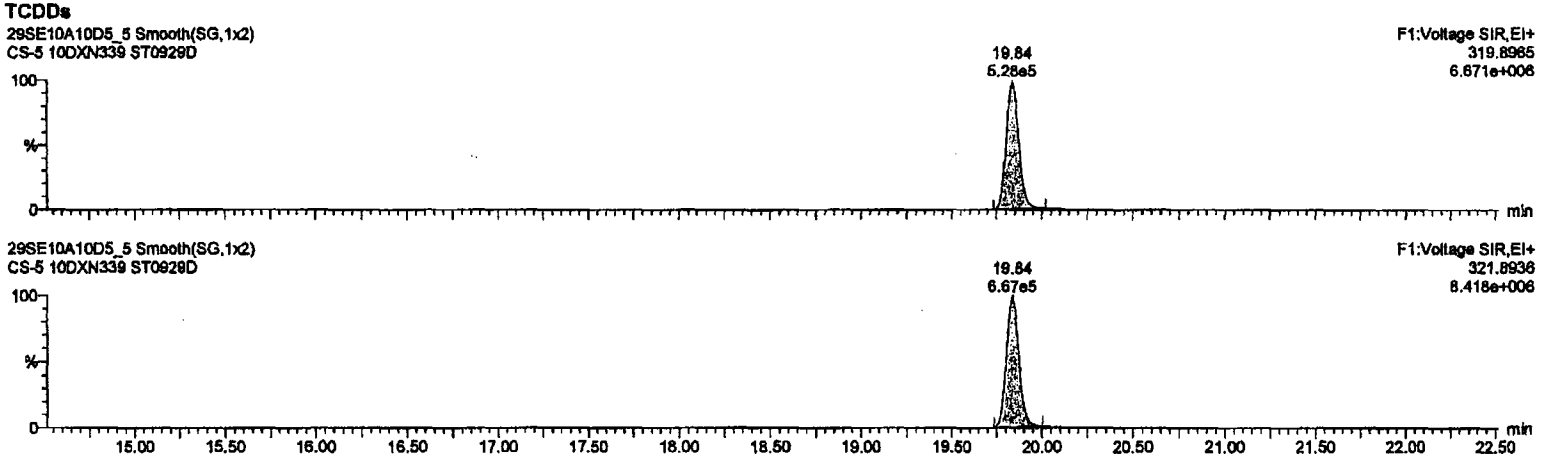
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

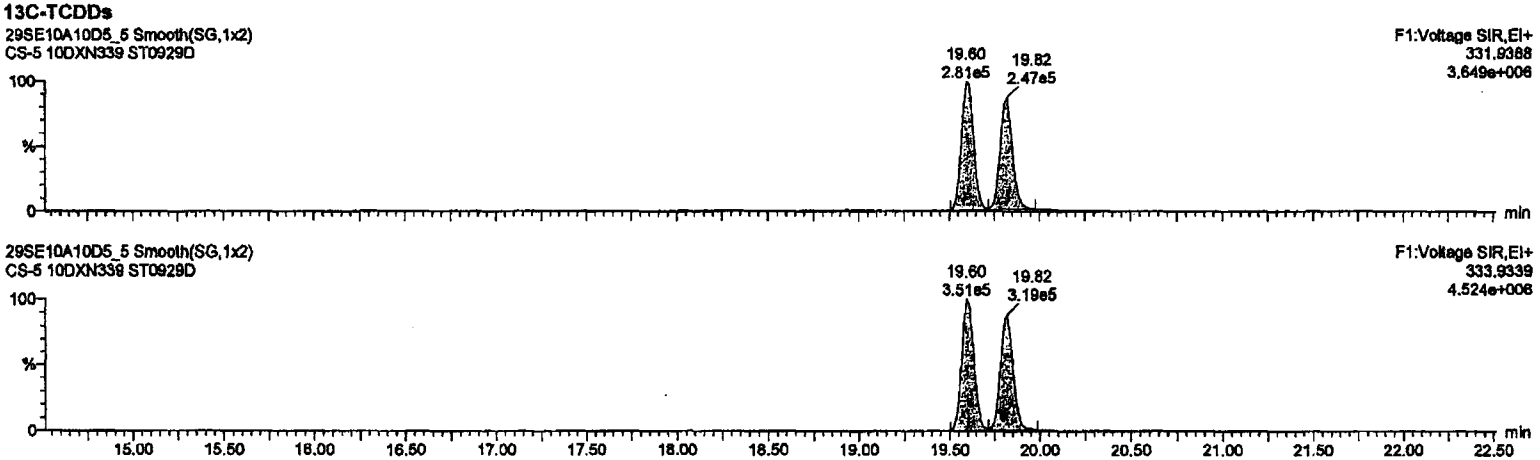
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

TCDDs



13C-TCDDs



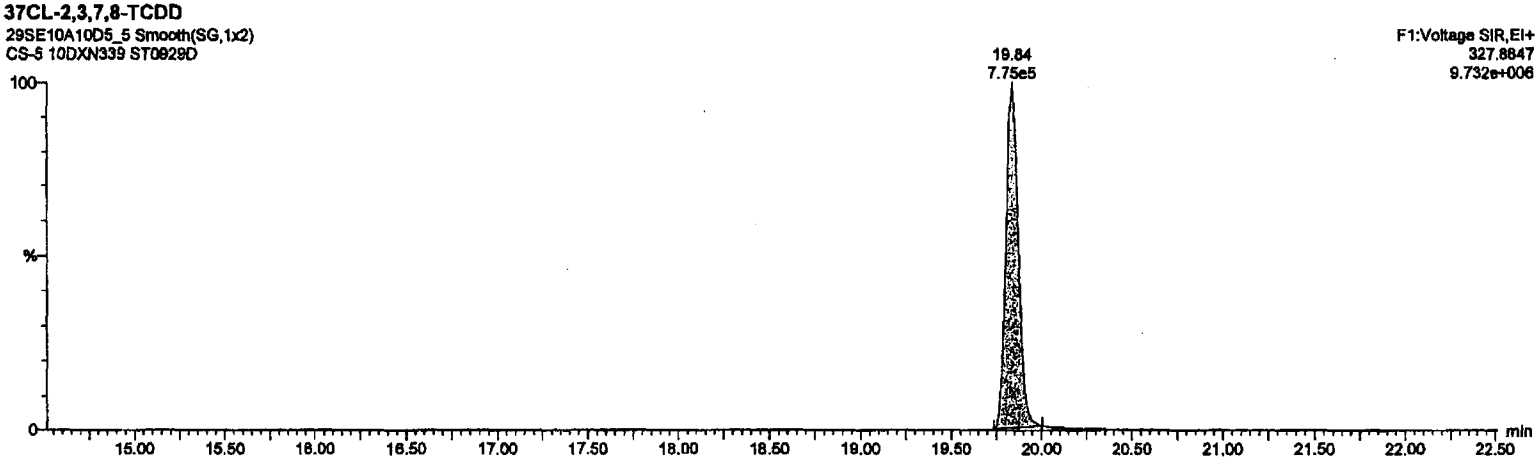
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

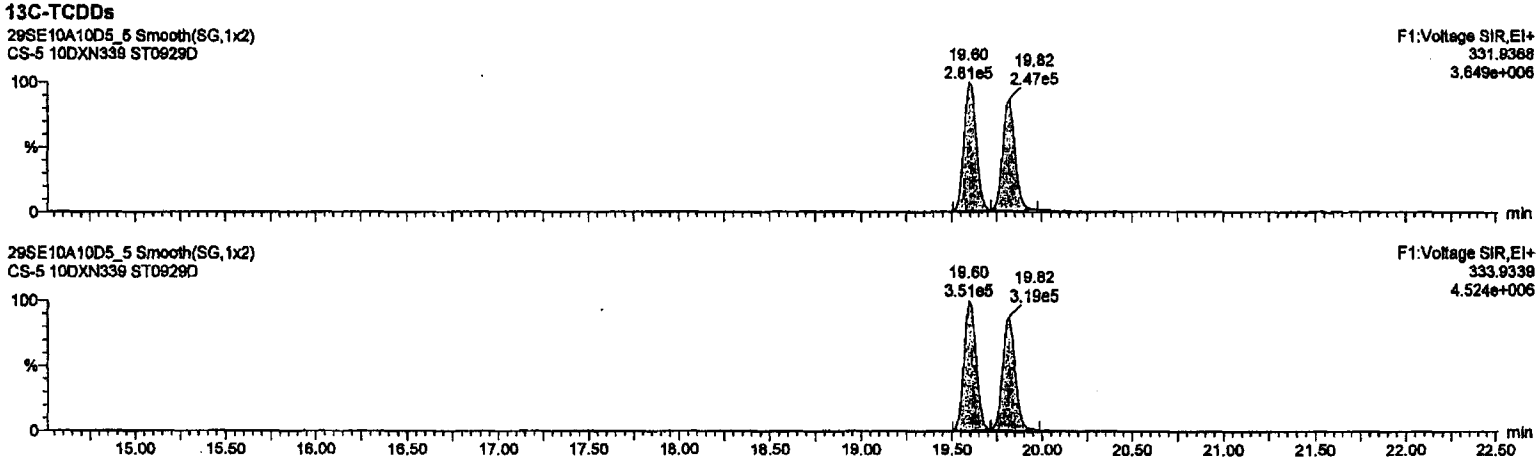
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

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



13C-TCDDs



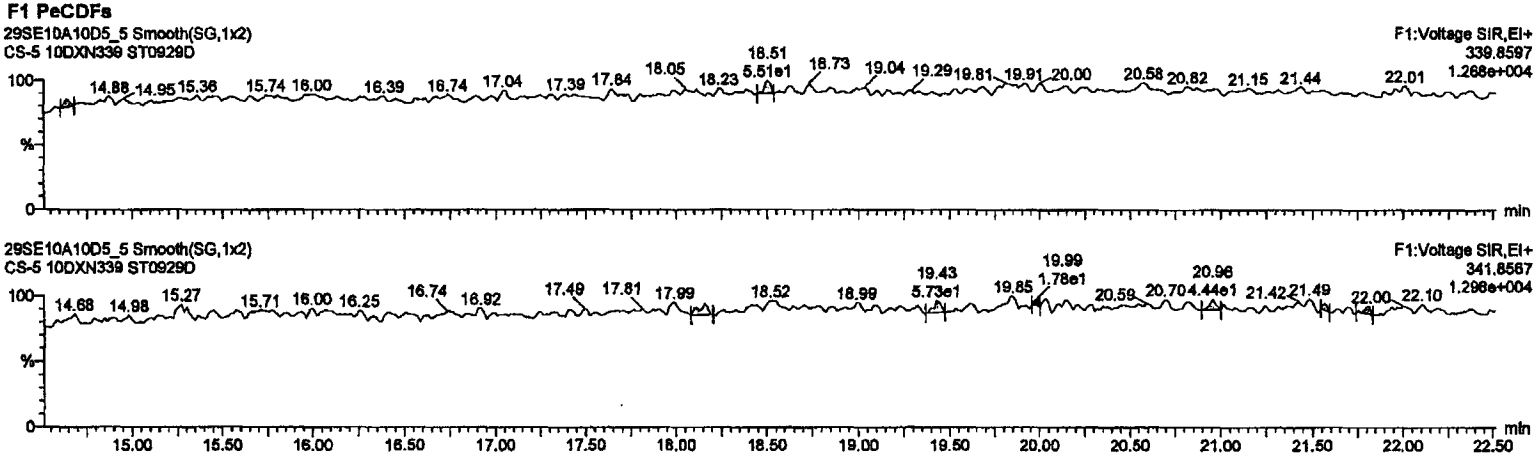
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

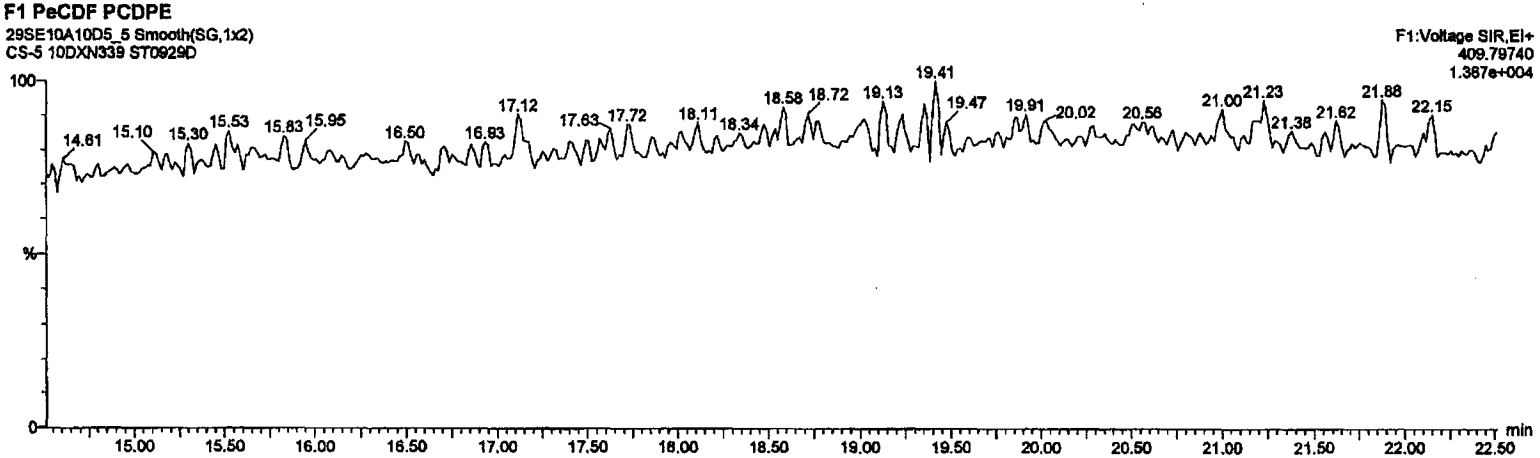
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

F1 PeCDFs



F1 PeCDF PCDPE



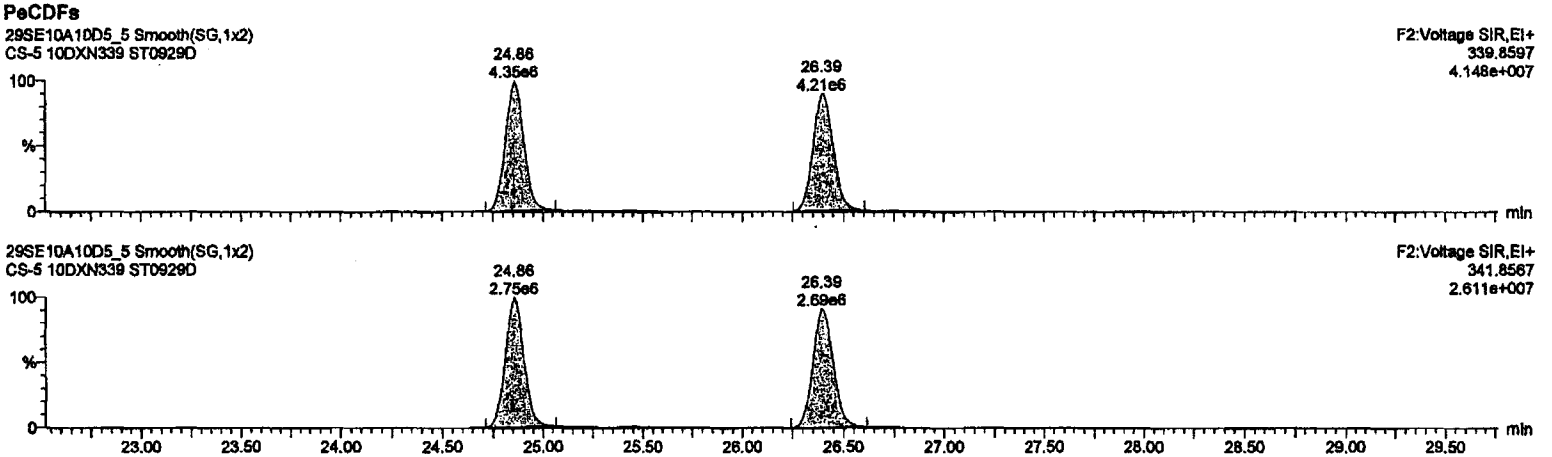
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

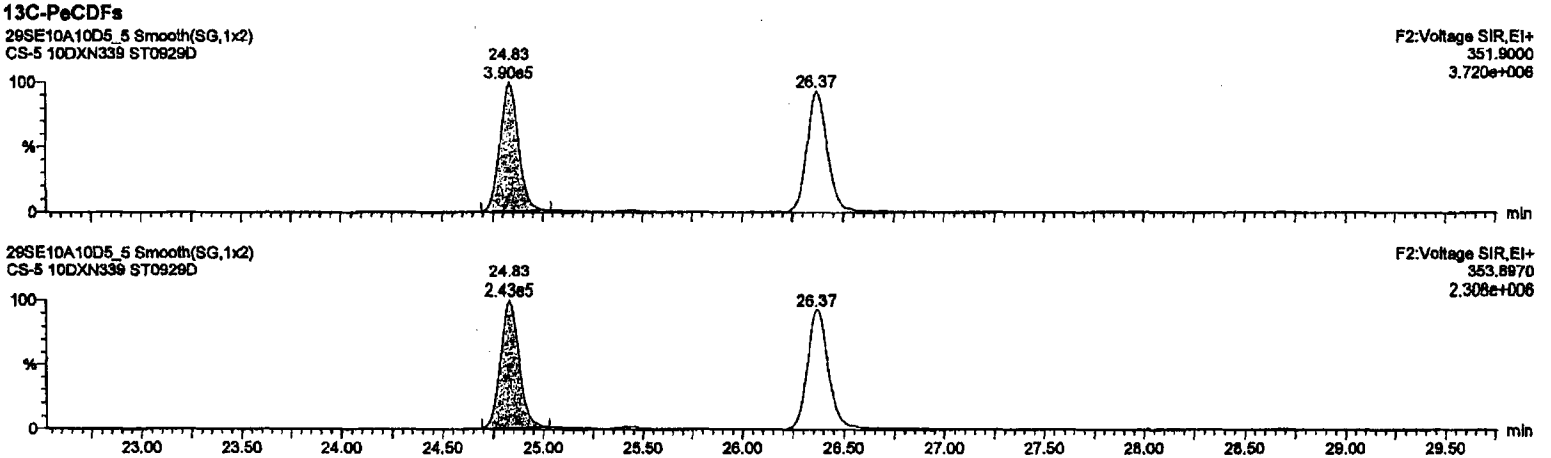
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

PeCDFs



13C-PeCDFs



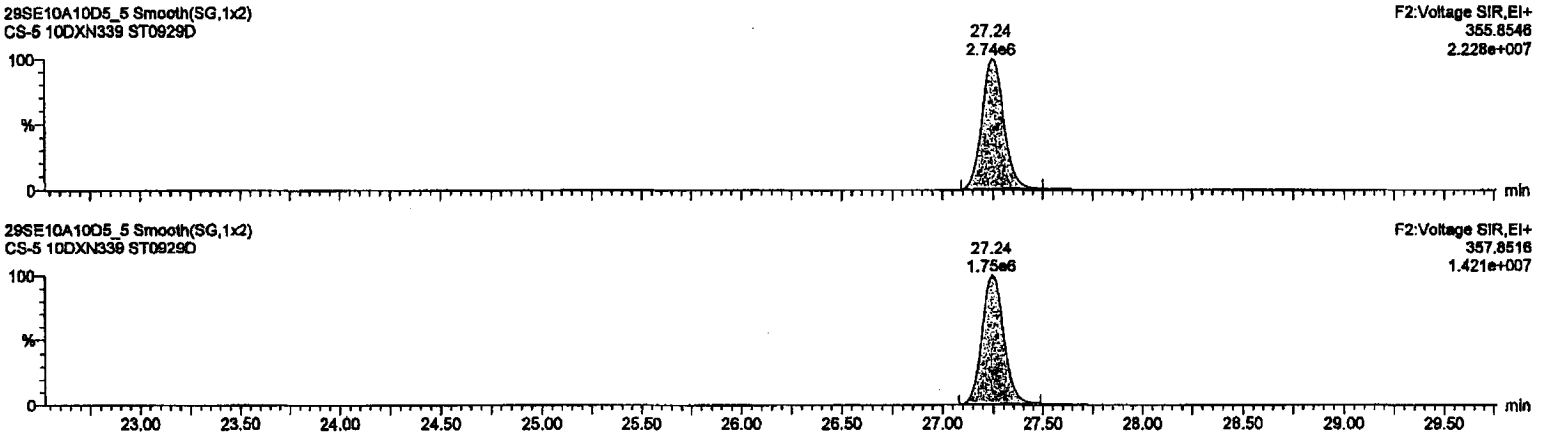
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

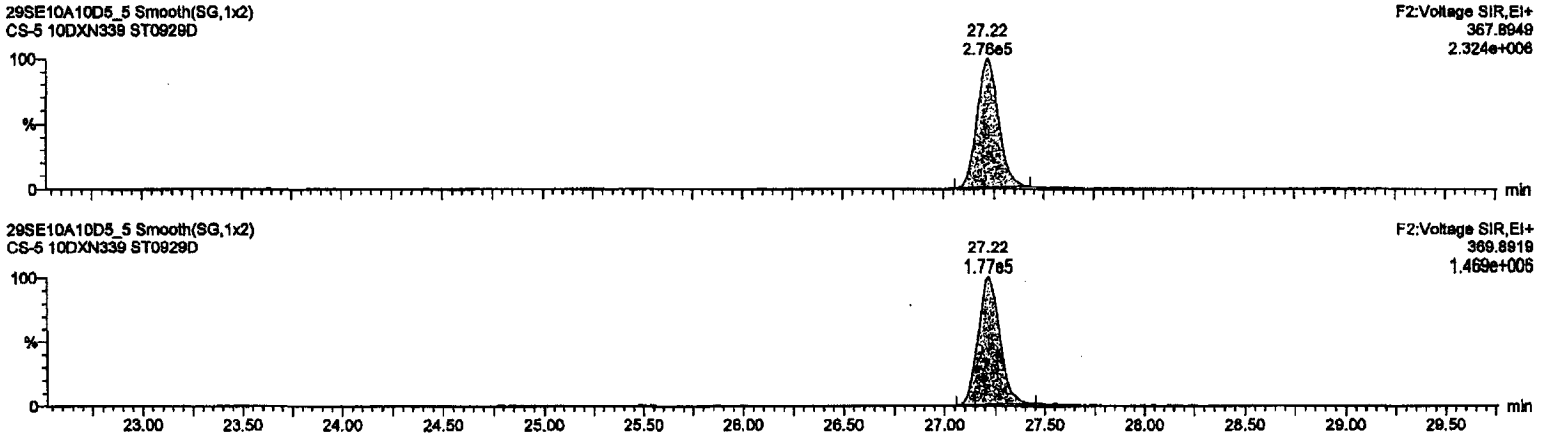
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

PeCDDs



13C-PeCDD



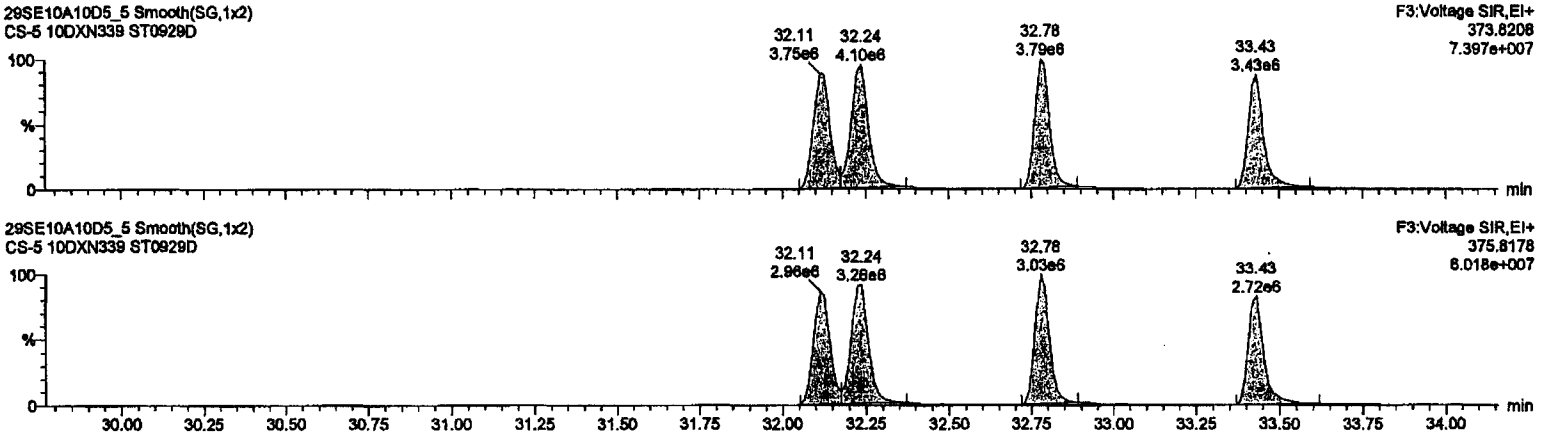
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

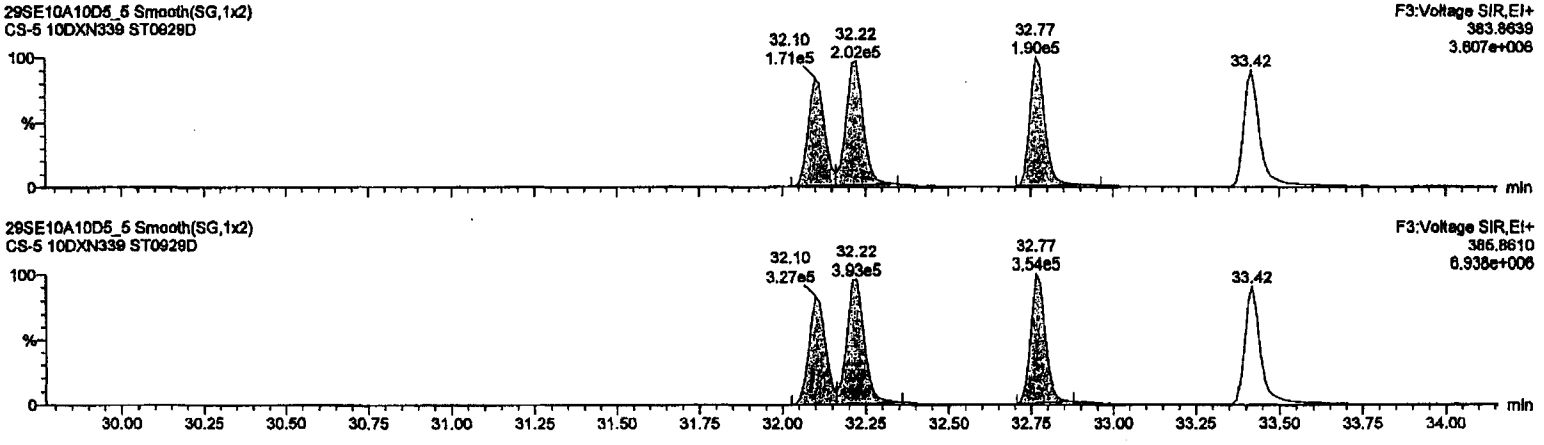
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

HxCDFs



13C-HxCDFs



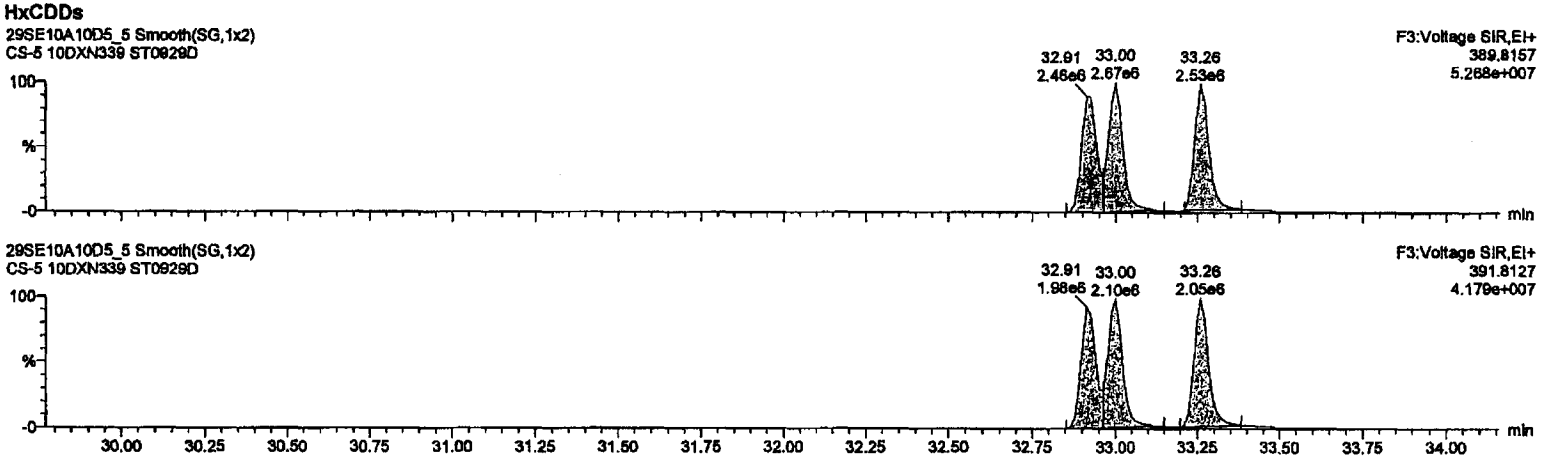
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

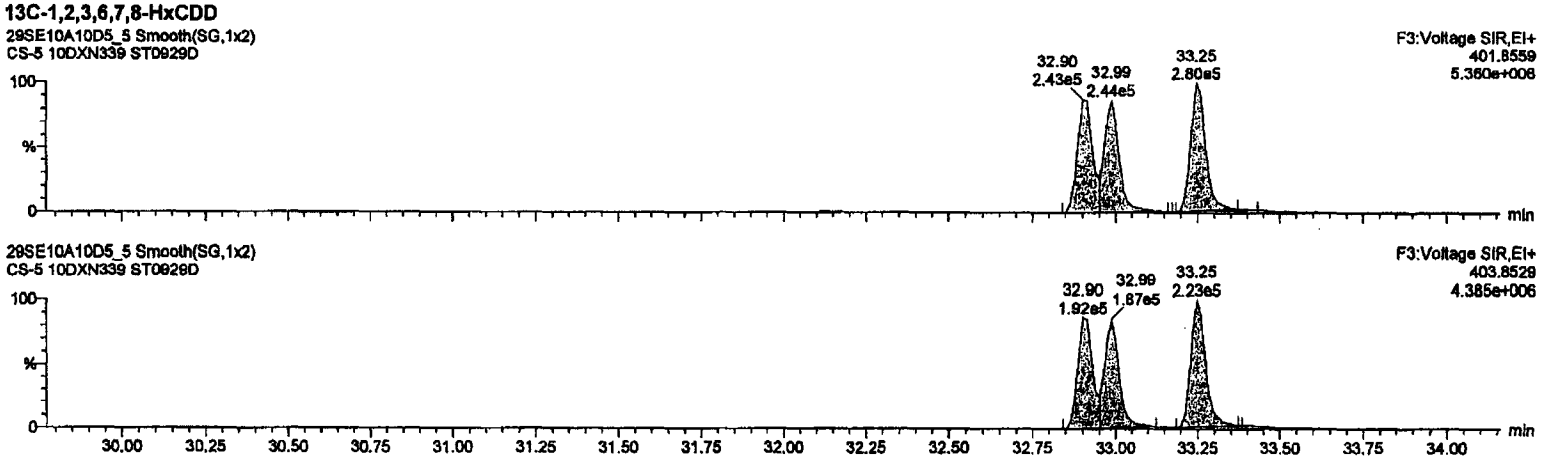
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

HxCDDs



13C-1,2,3,6,7,8-HxCDD



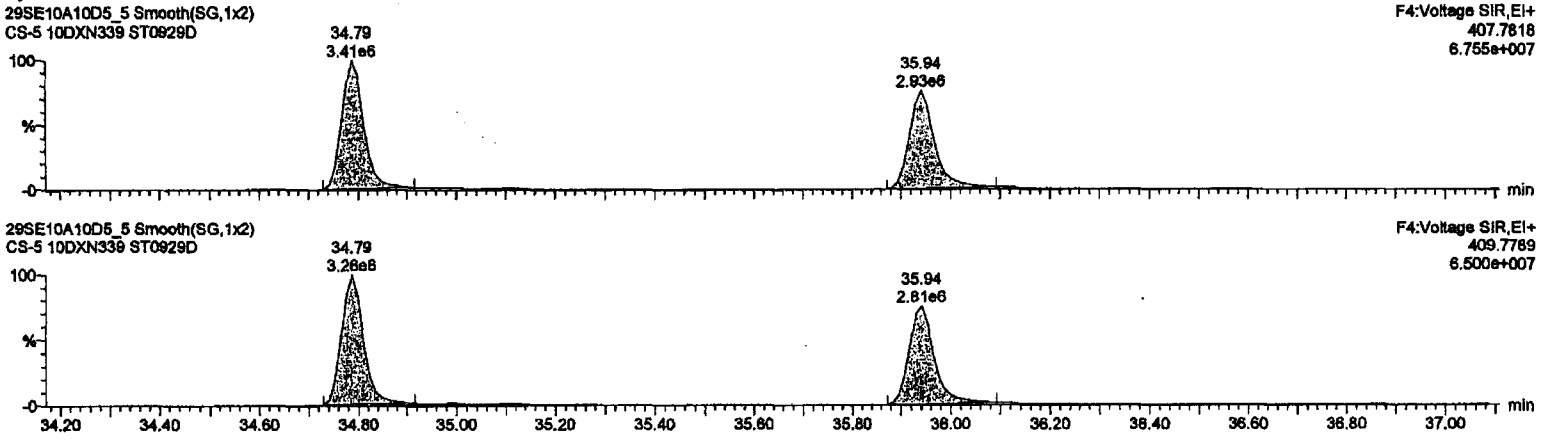
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

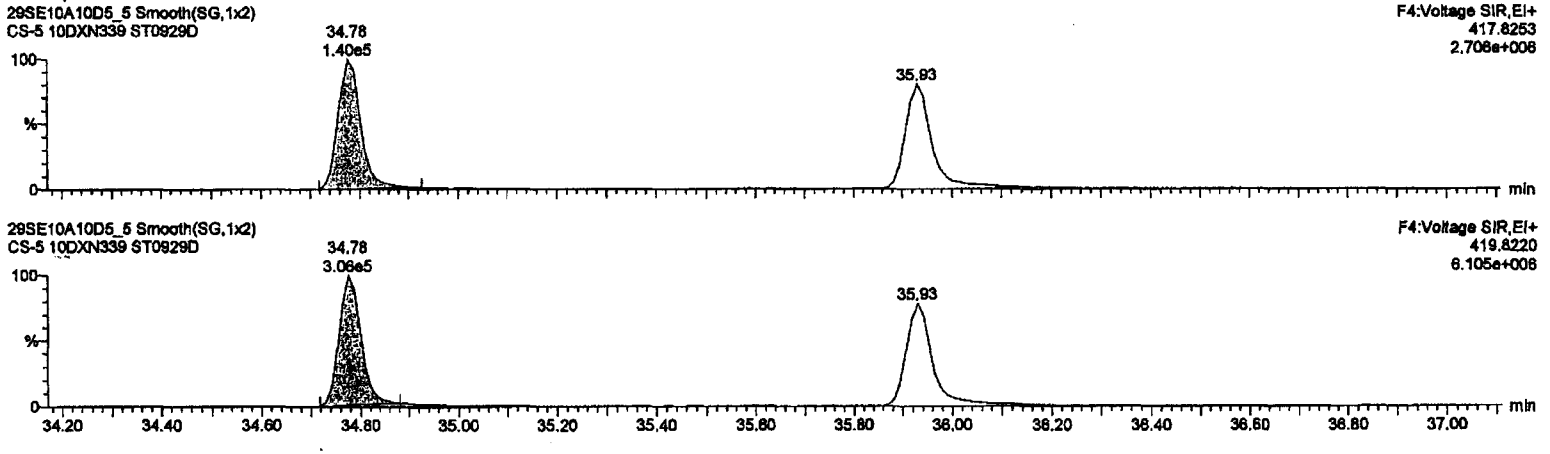
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

HpCDFs



13C-HpCDFs



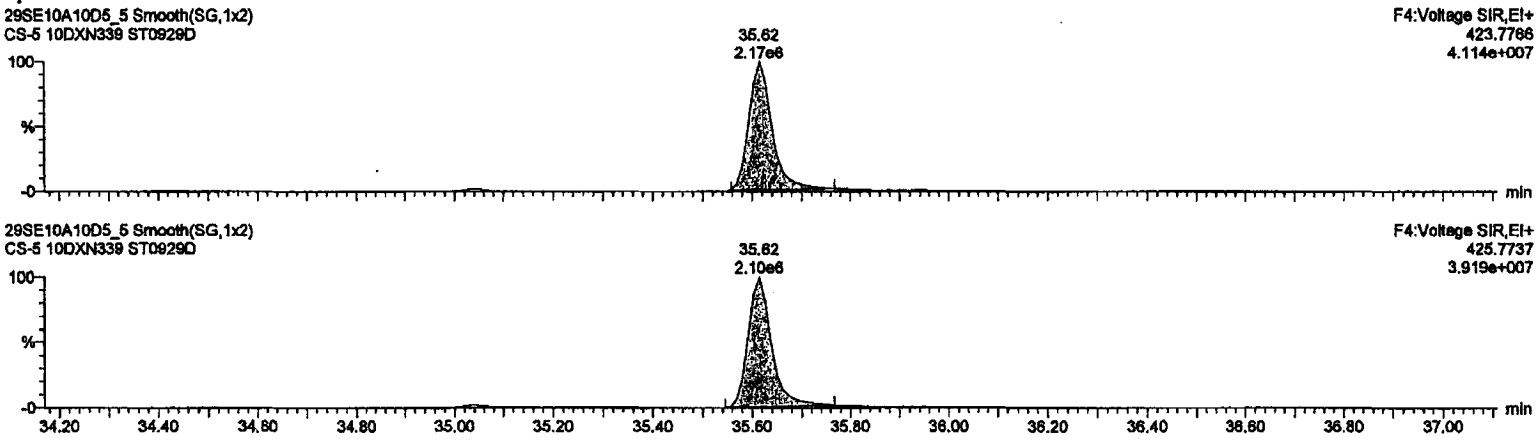
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

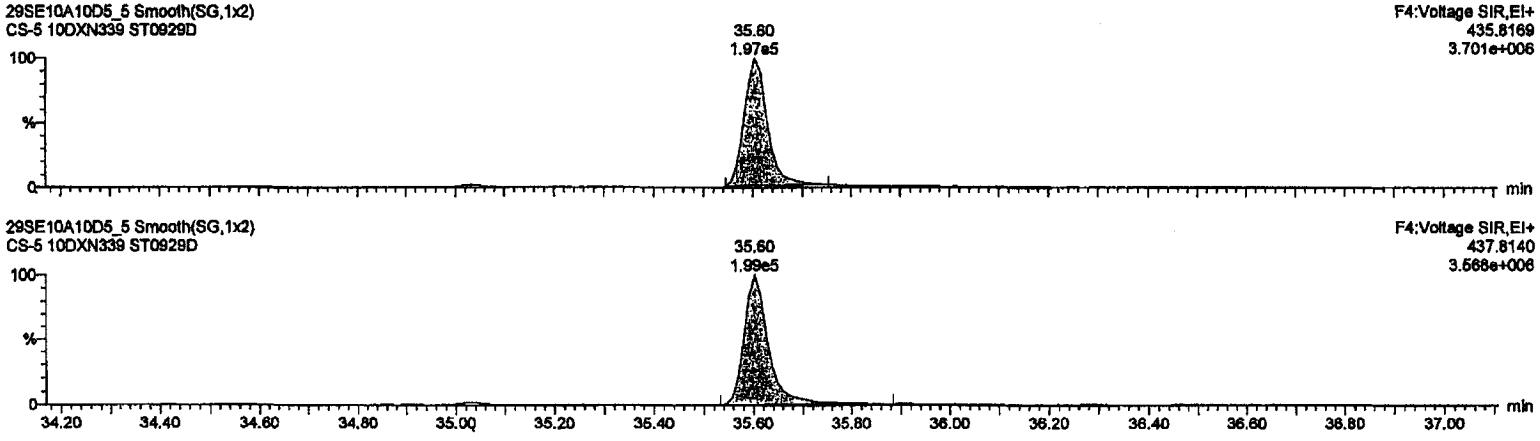
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



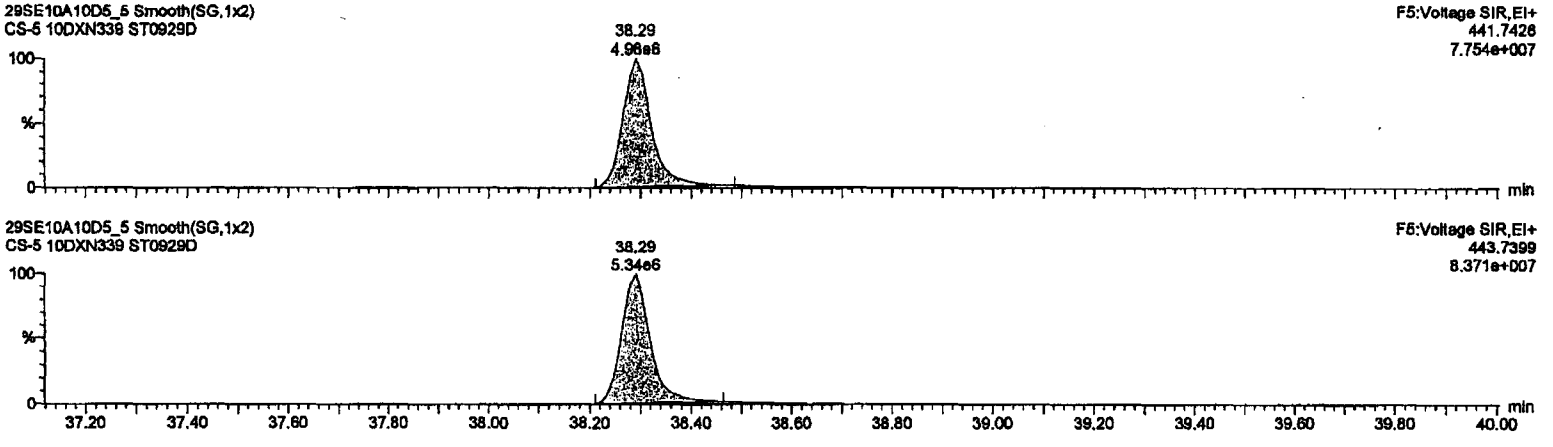
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

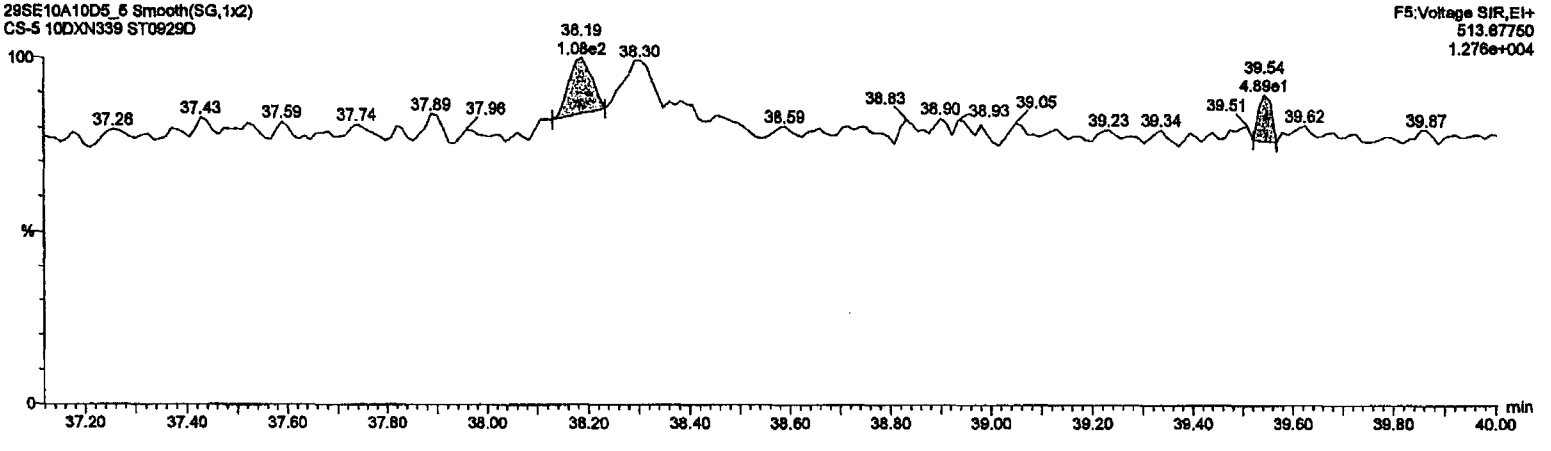
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

OCDFs



OCDF PCDPE



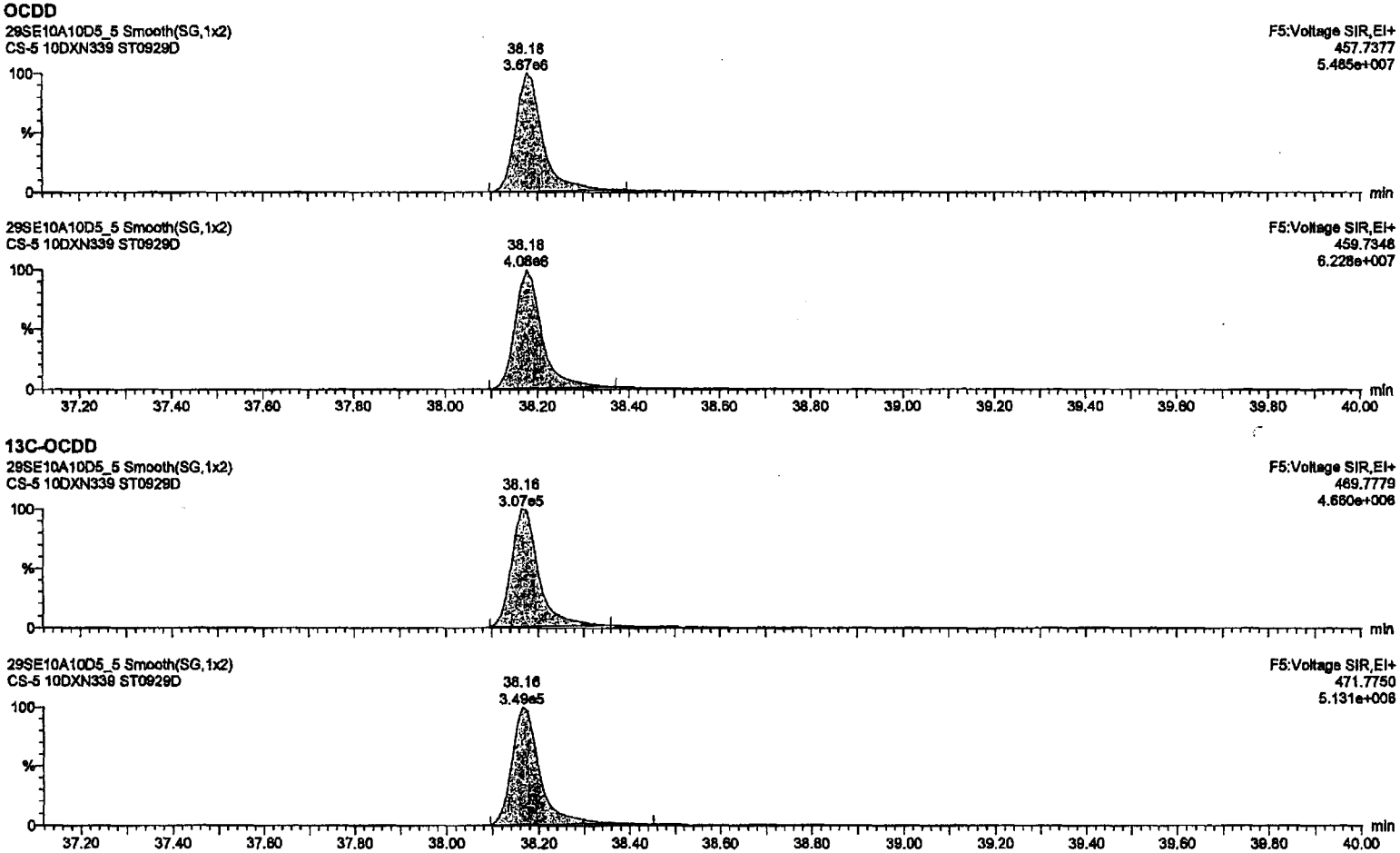
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

OCDD



13C-OCDD

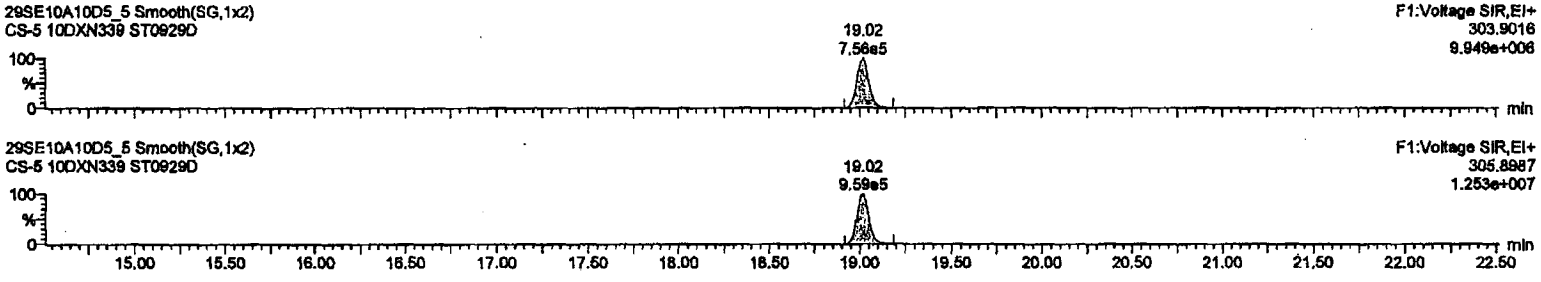
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qid

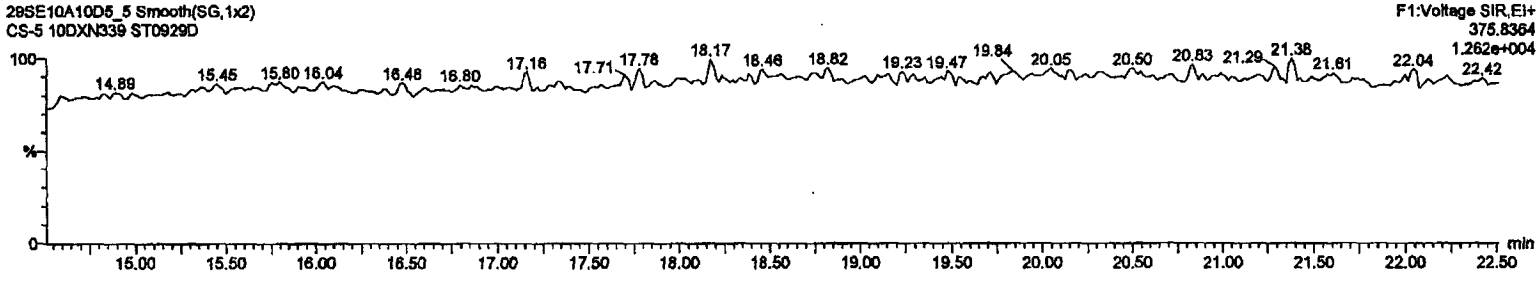
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

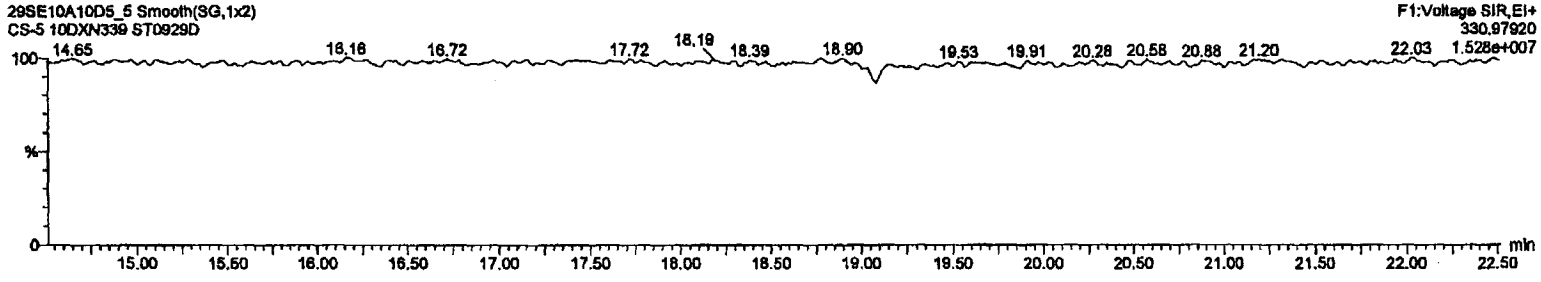
TCDFs



TCDF PCDPE



Function 1 PFK



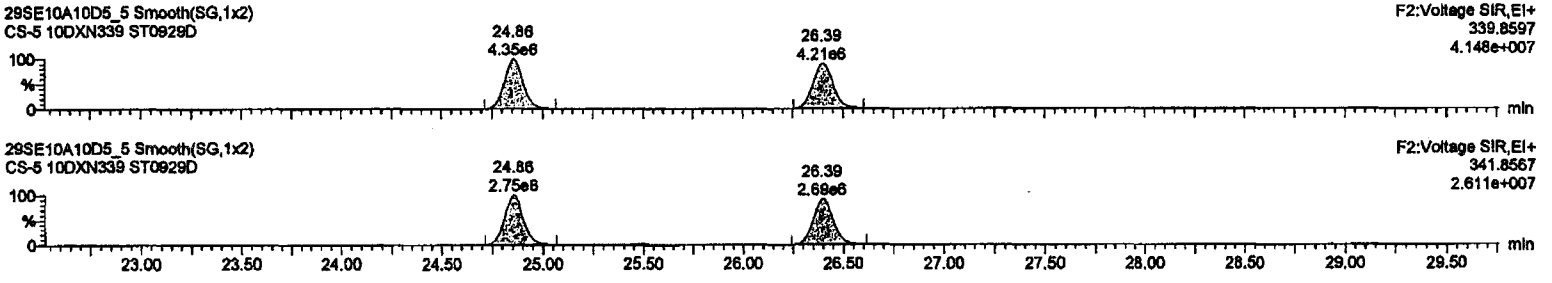
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

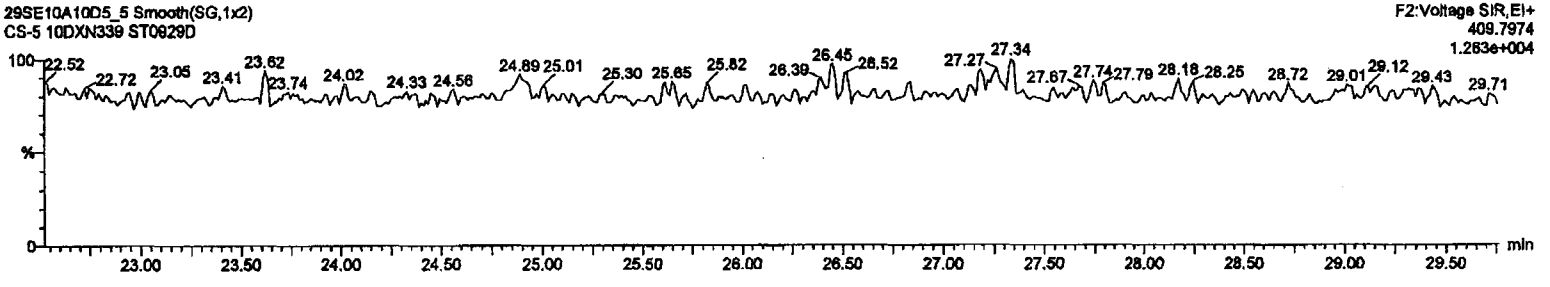
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

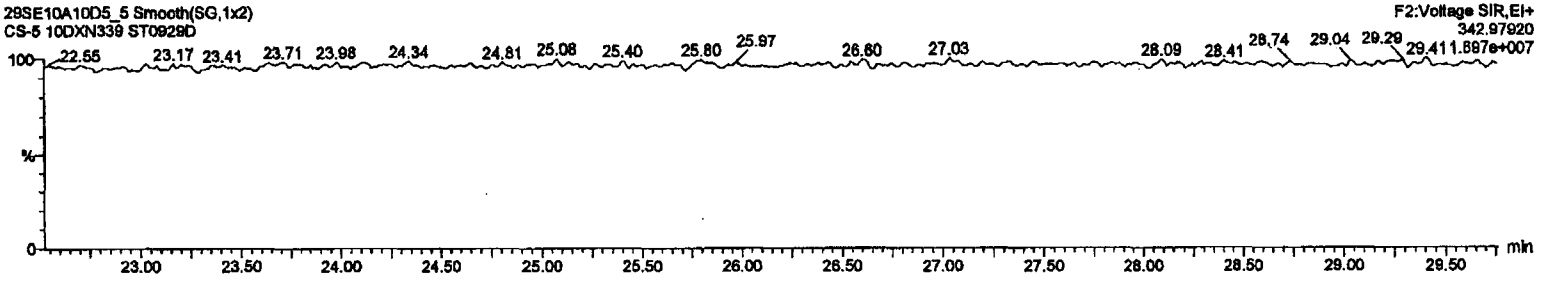
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



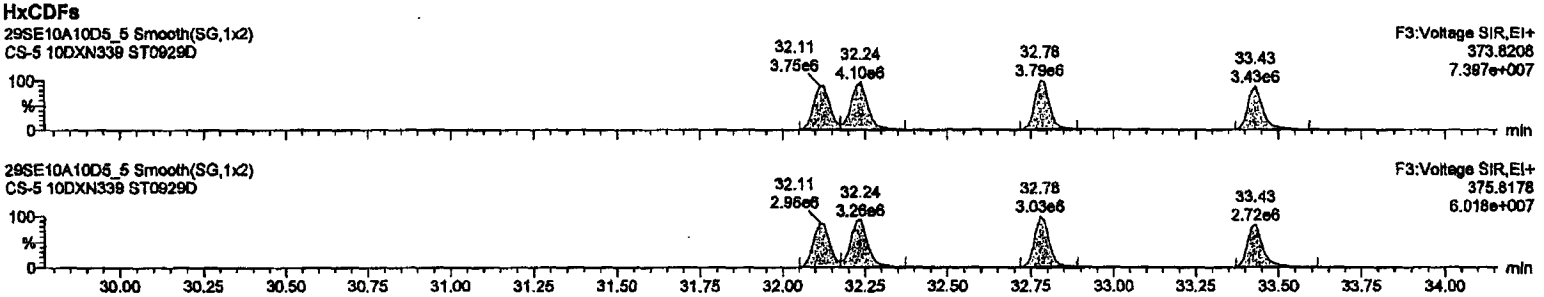
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

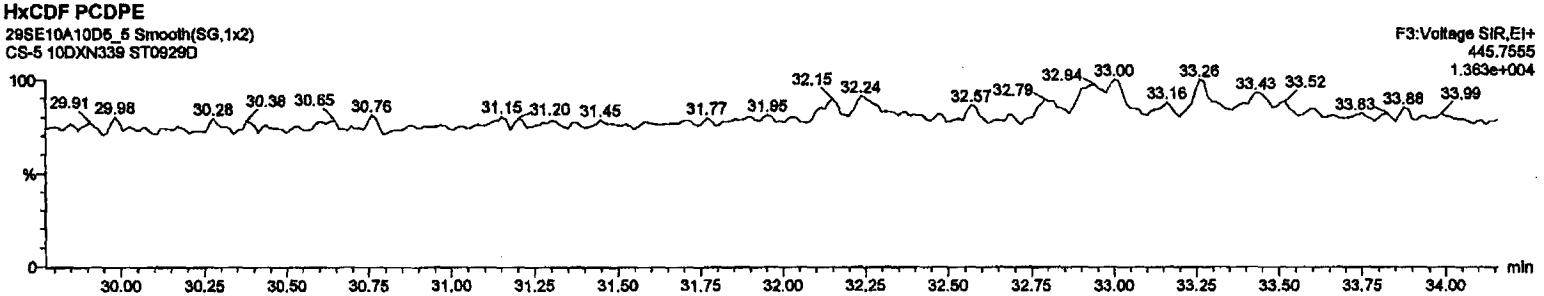
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

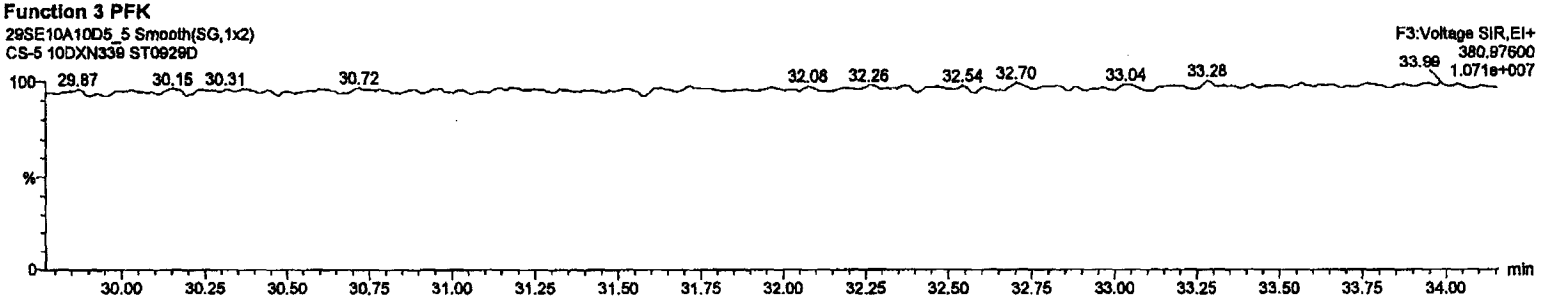
HxCDFs



HxCDF PCDPE



Function 3 PFK



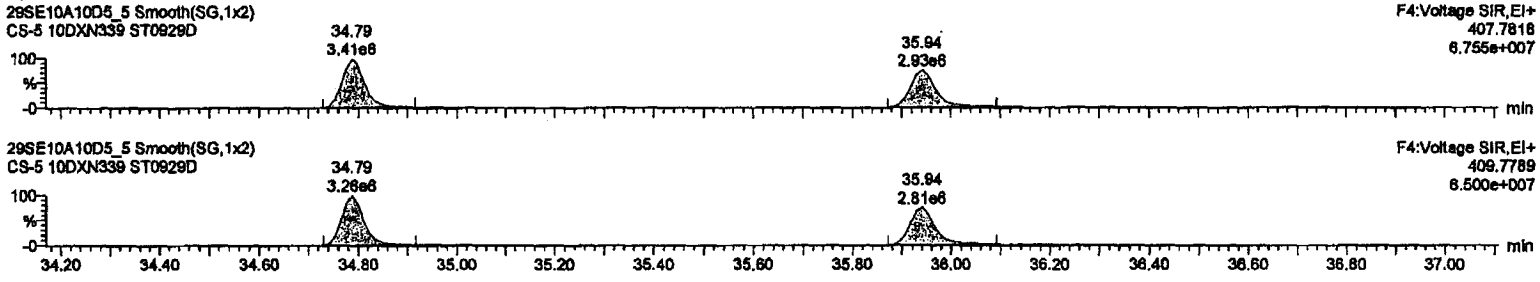
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\CA09291010D58290.qld

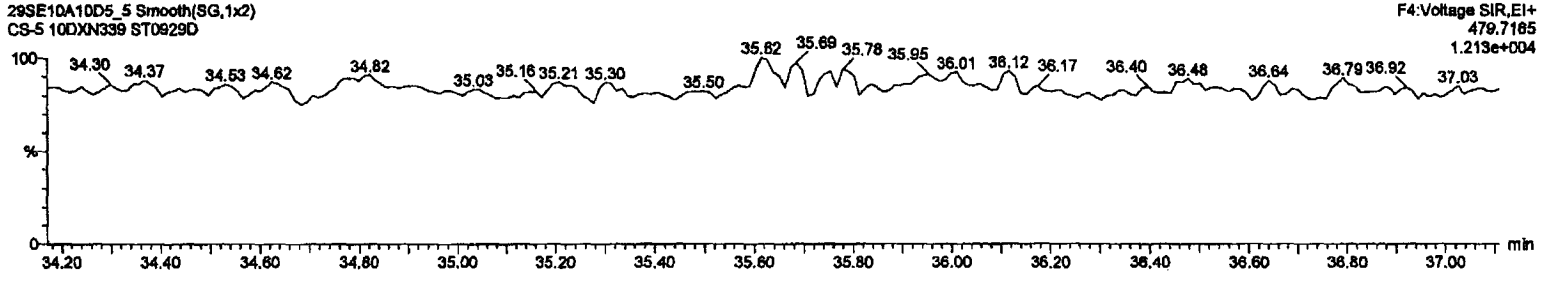
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

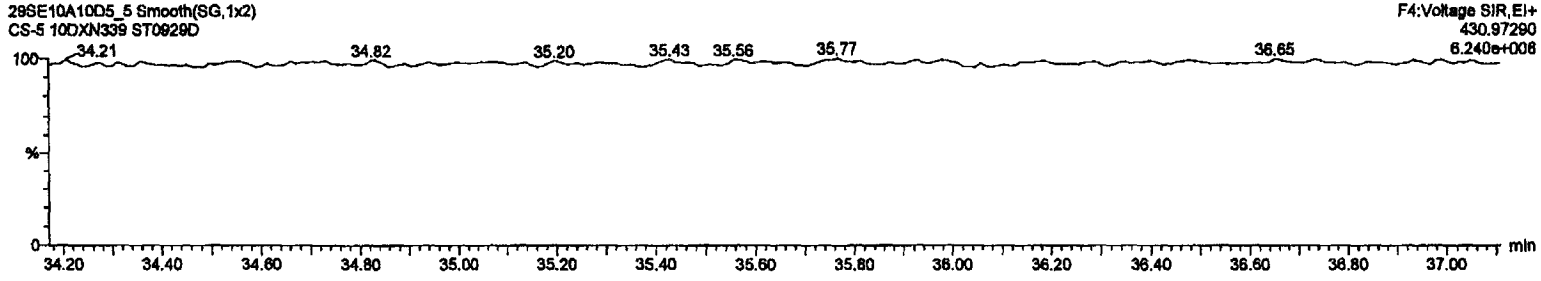
HpCDFs



HpCDF PCDPE



Function 4 PFK



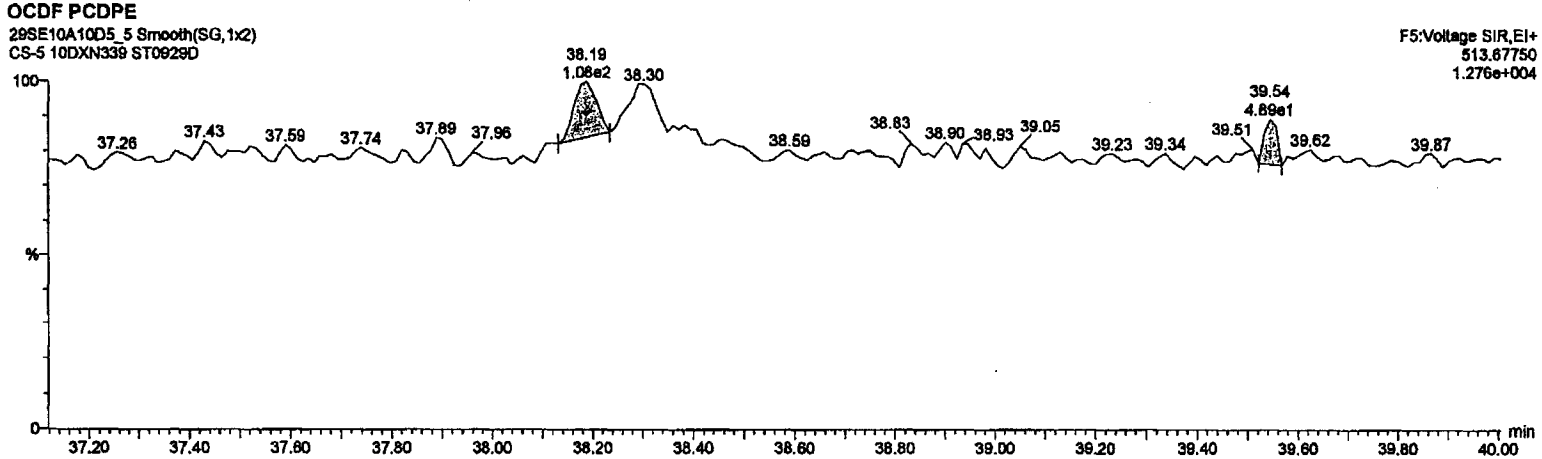
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\ICA09291010D58290.qld

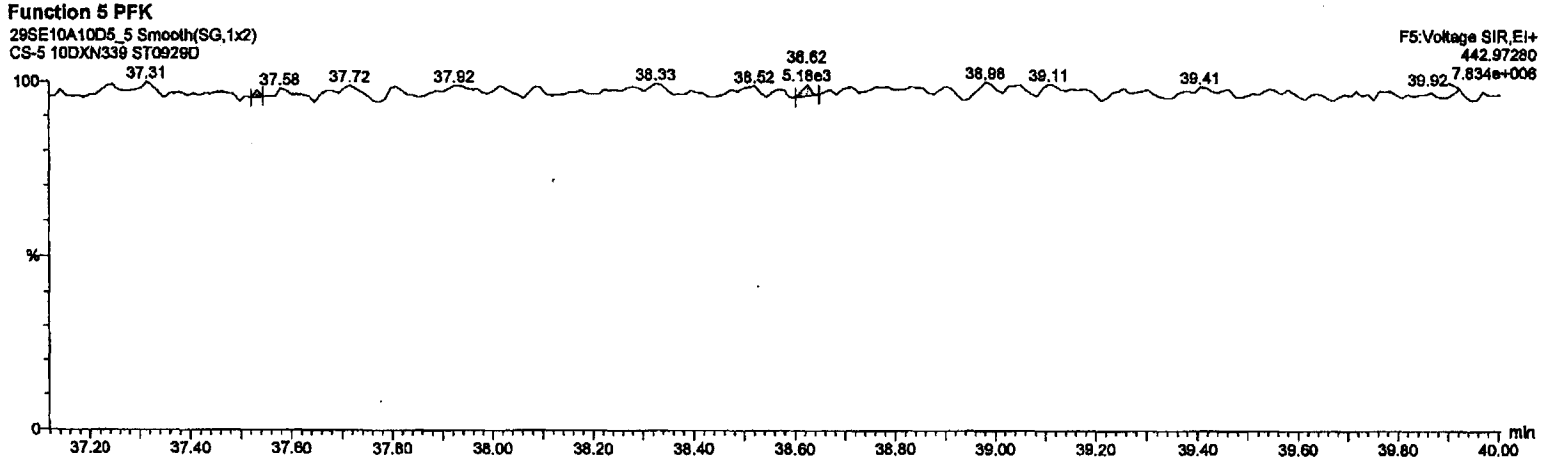
Last Altered: Thursday, September 30, 2010 10:11:18 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:12:11 Pacific Daylight Time

Name: 29SE10A10D5_5, Date: 29-Sep-2010, Time: 21:39:19, ID: ST0929D, Description: CS-5 10DXN339

OCDF PCDPE



Function 5 PFK



Quantify Sample Report **MassLynx 4.1**

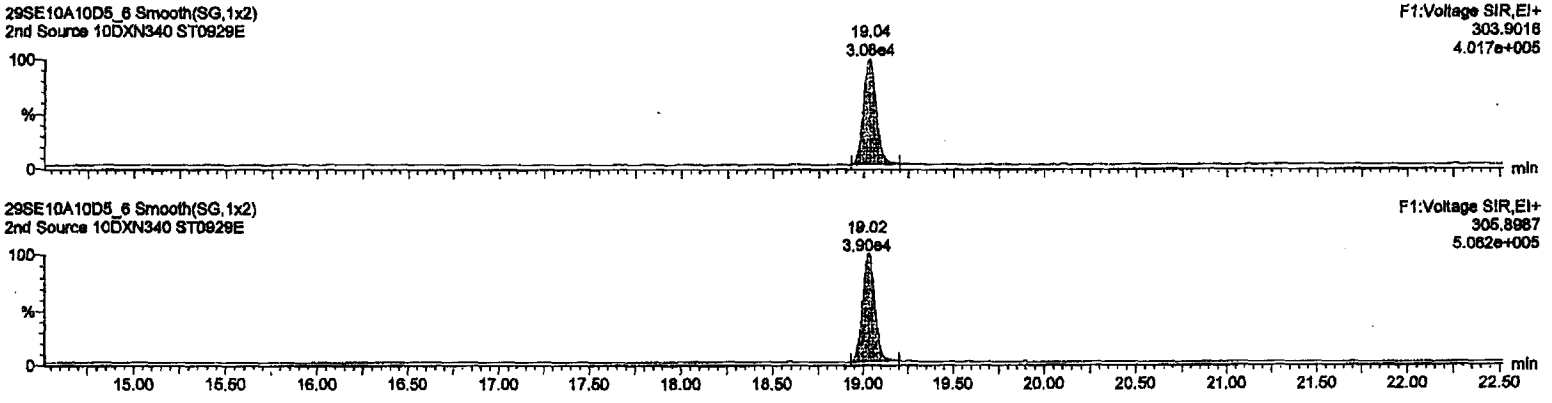
Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

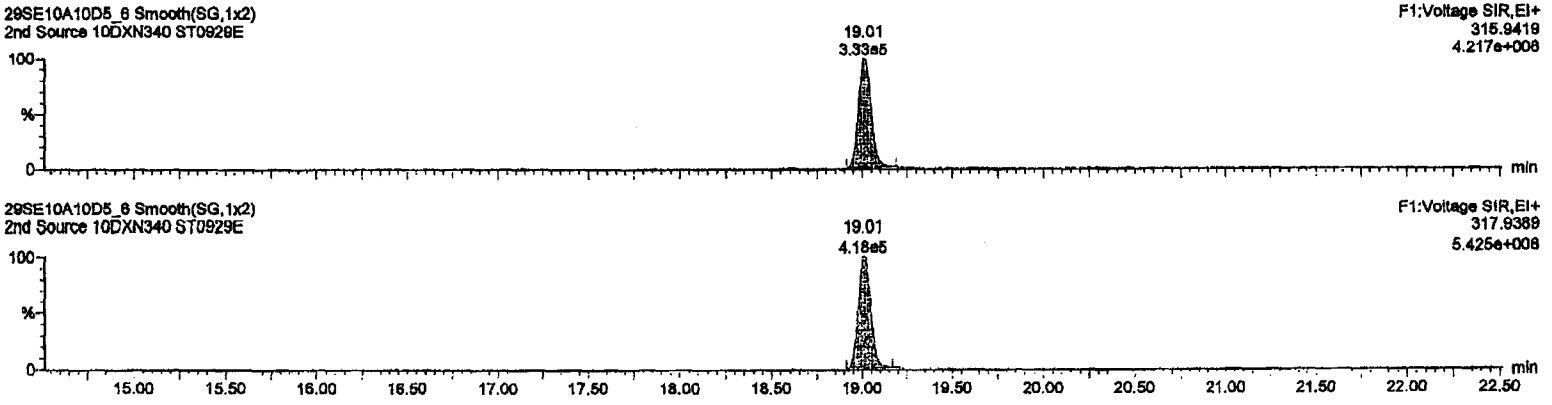
Method: C:\MassLynx\Default.pro\Methdb\161310D5.mdb 29 Sep 2010 14:36:48
Calibration: C:\MassLynx\Default.pro\Curvedb\ICA09291010D51613.cdb 30 Sep 2010 10:19:34

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

TCDFs



13C-TCDF



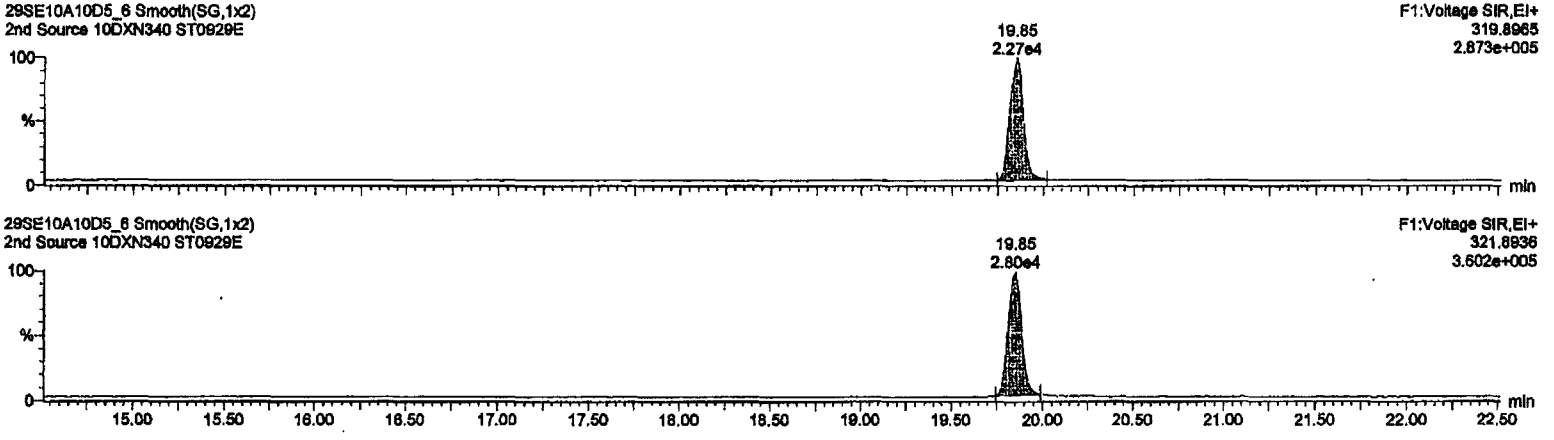
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

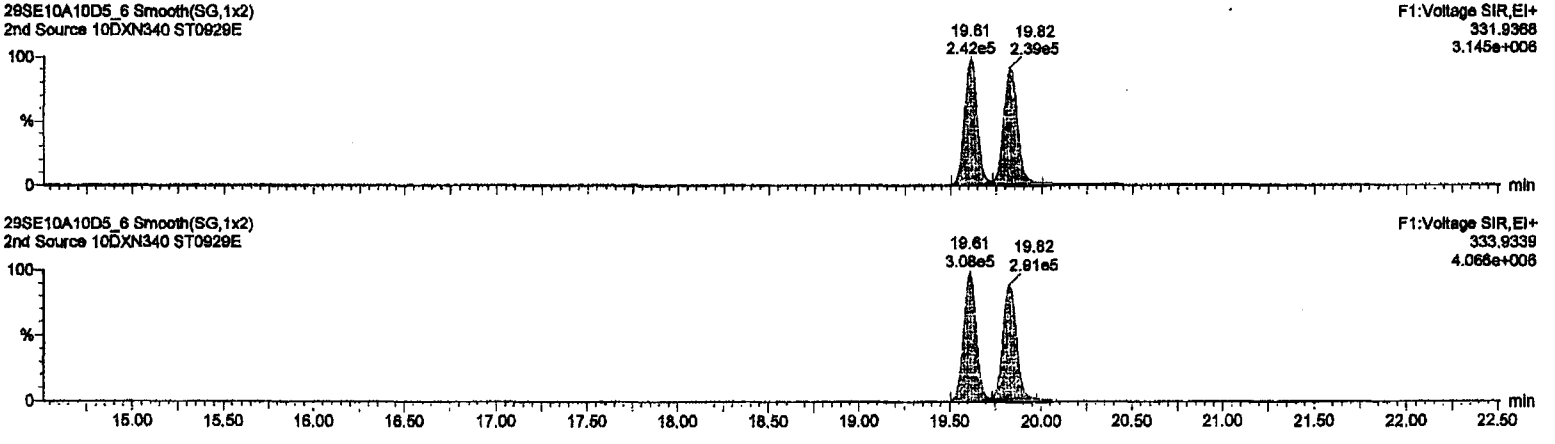
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

TCDDs



13C-TCDDs



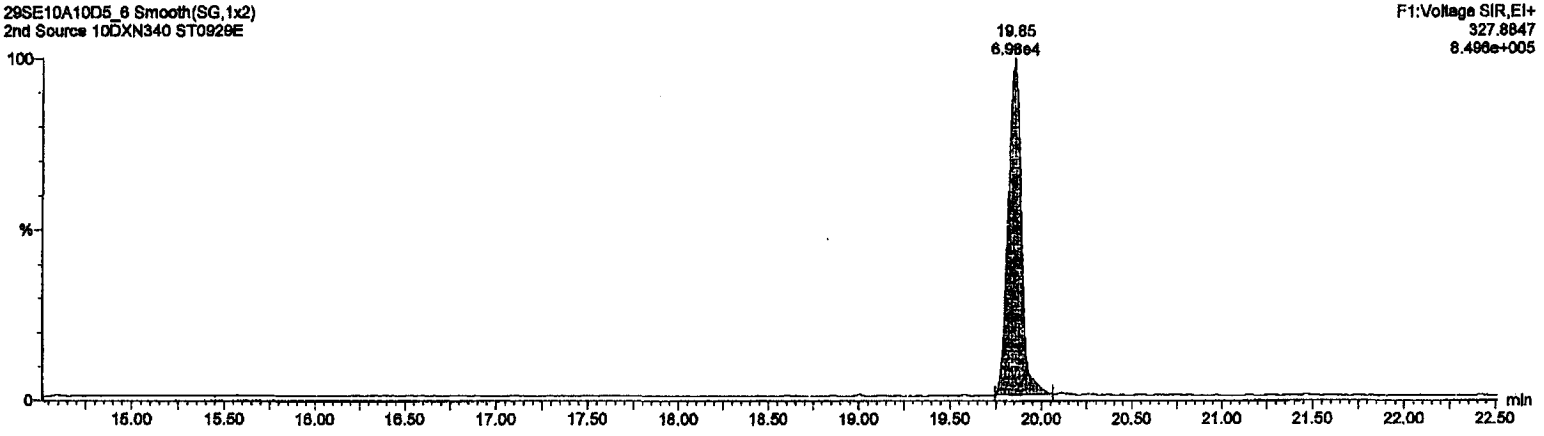
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

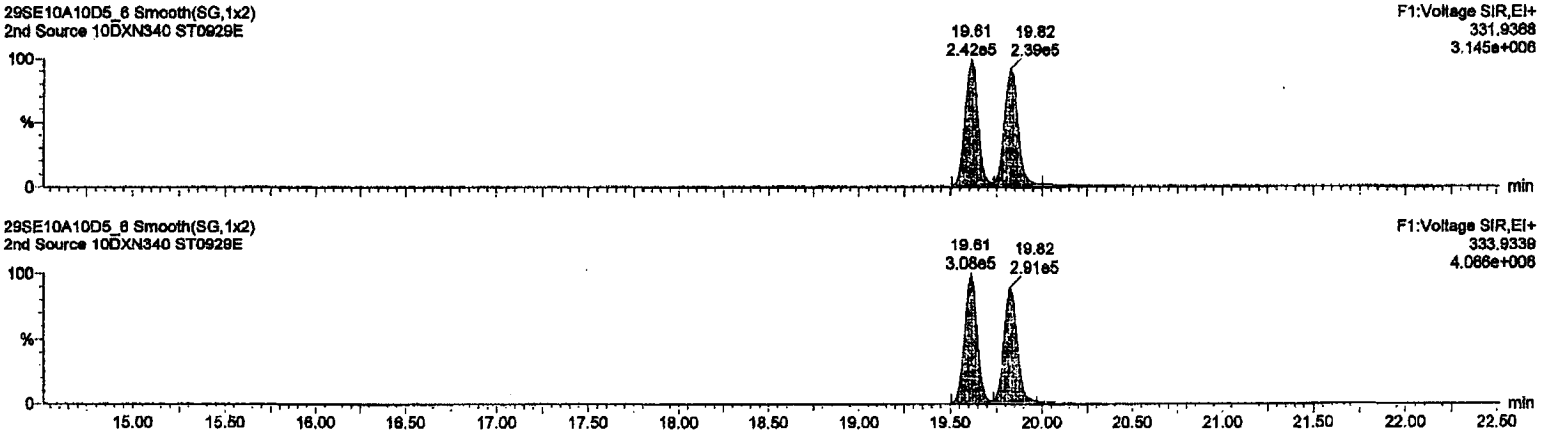
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

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



13C-TCDDs



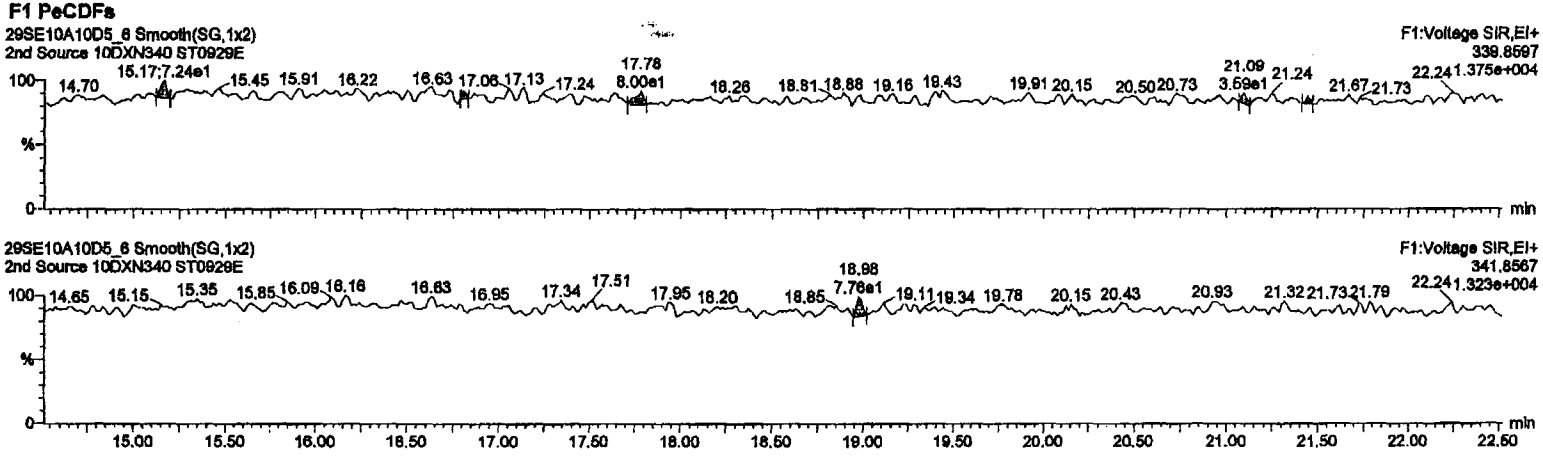
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

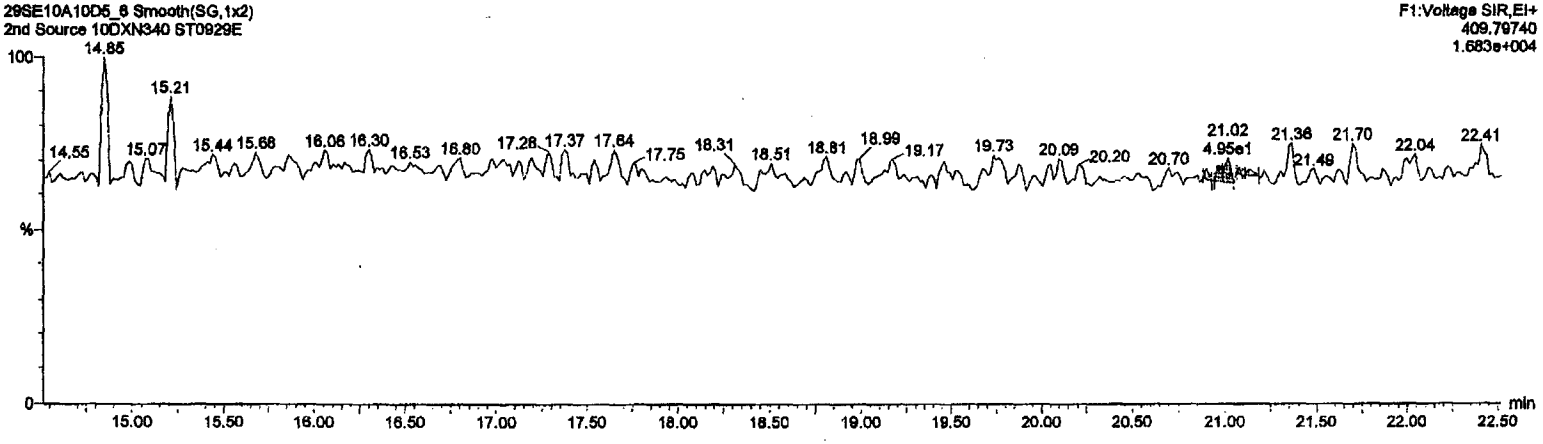
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

F1 PeCDFs



F1 PeCDF PCDPE



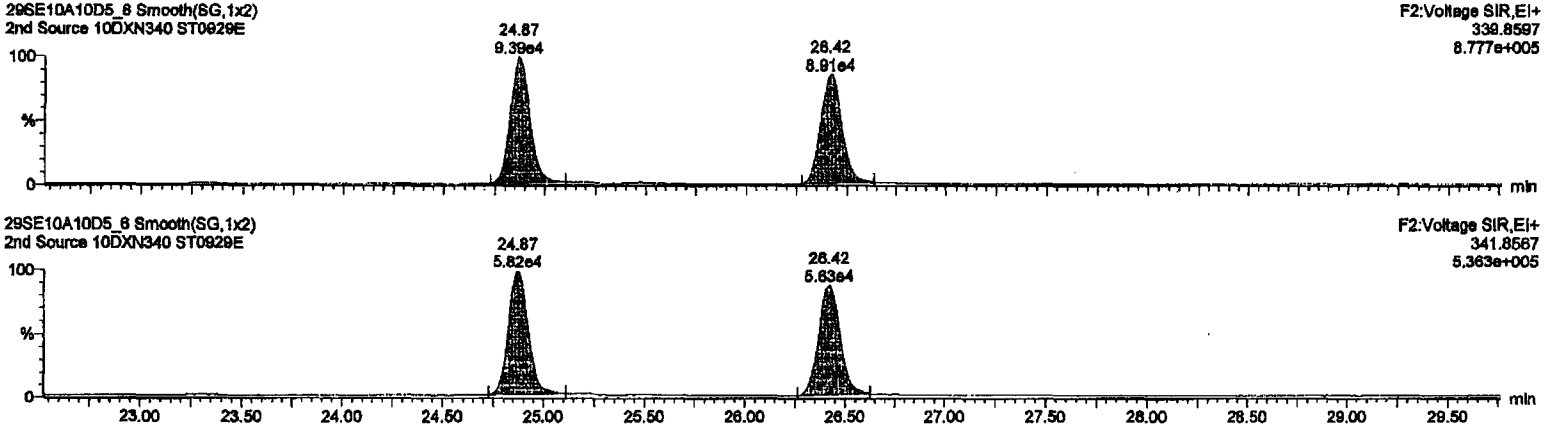
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

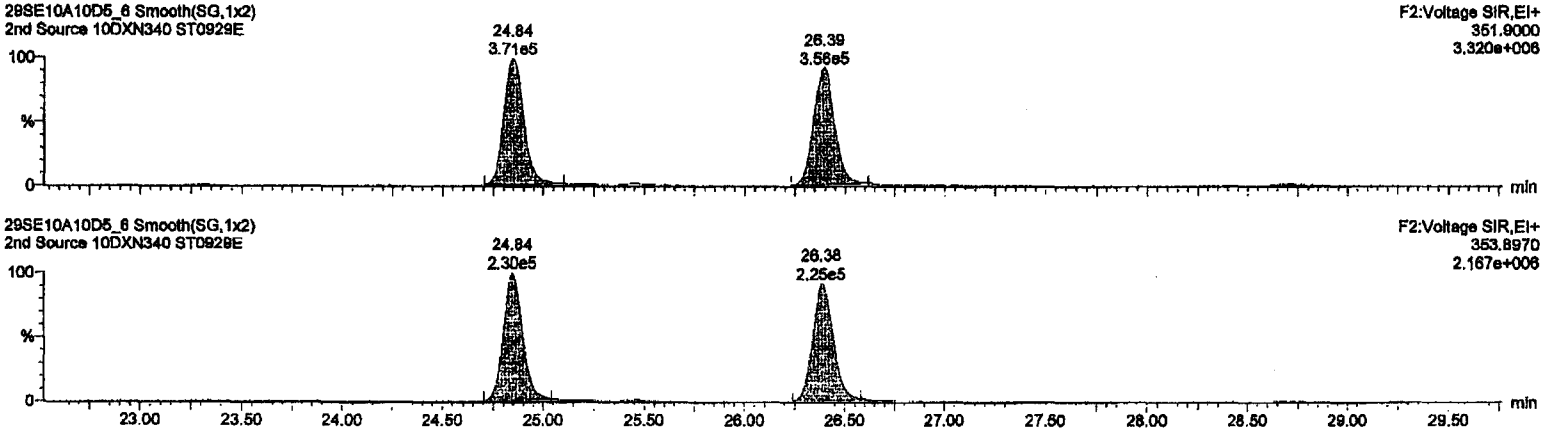
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

PeCDFs



13C-PeCDFs



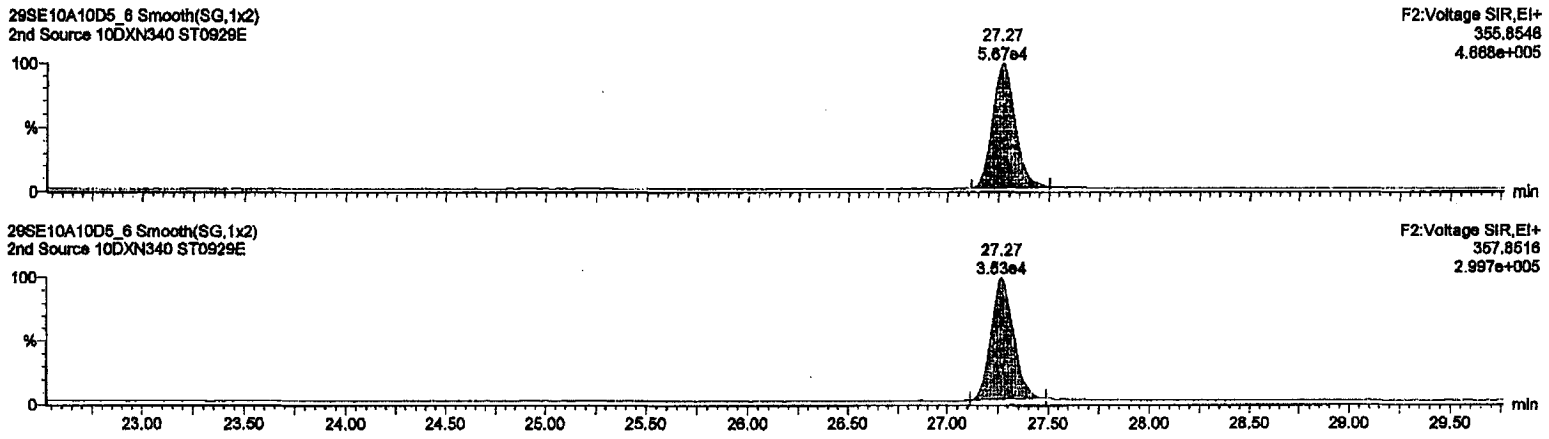
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

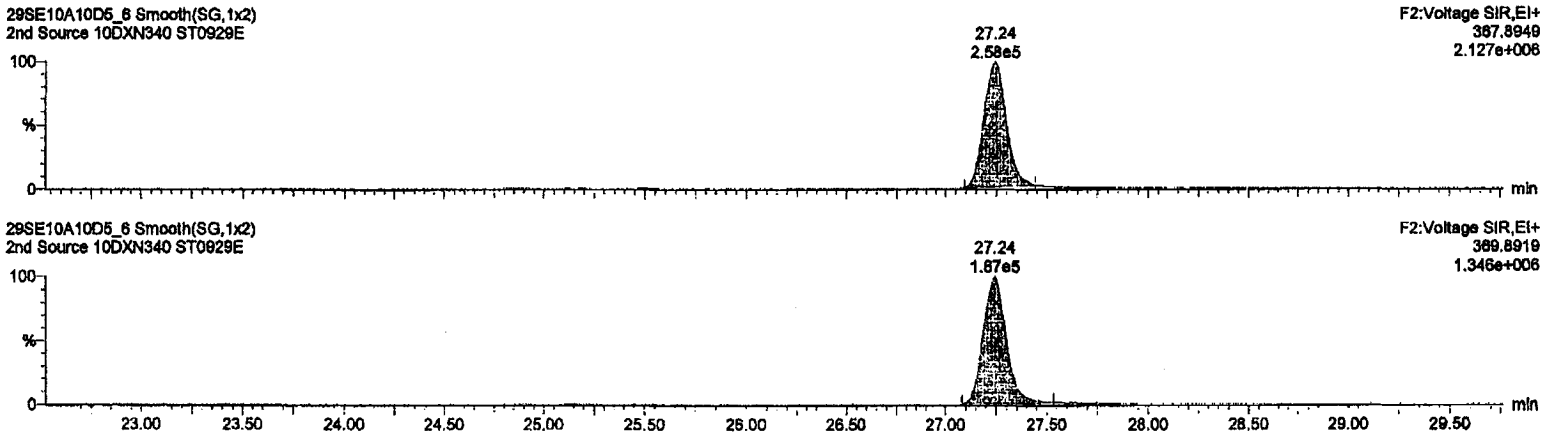
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

PeCDDs



13C-PeCDD



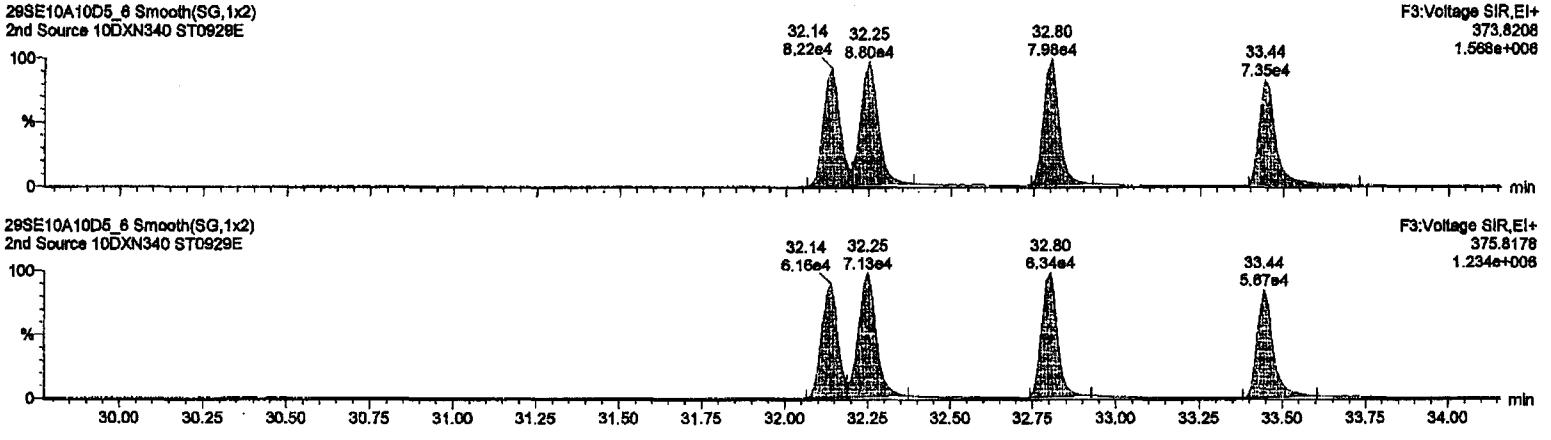
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

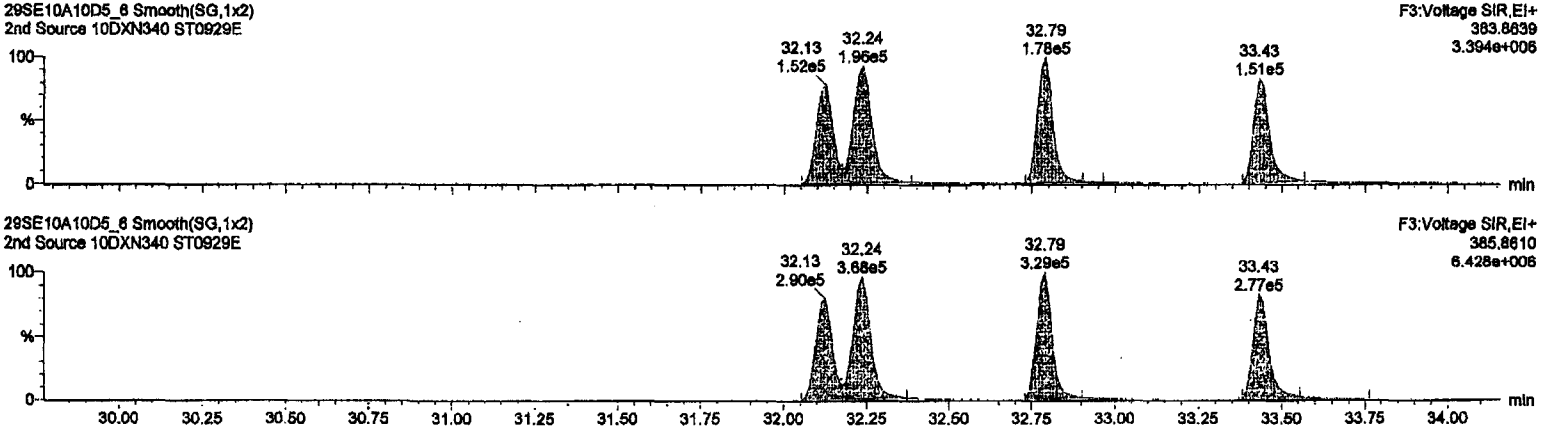
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

HxCDFs



13C-HxCDFs



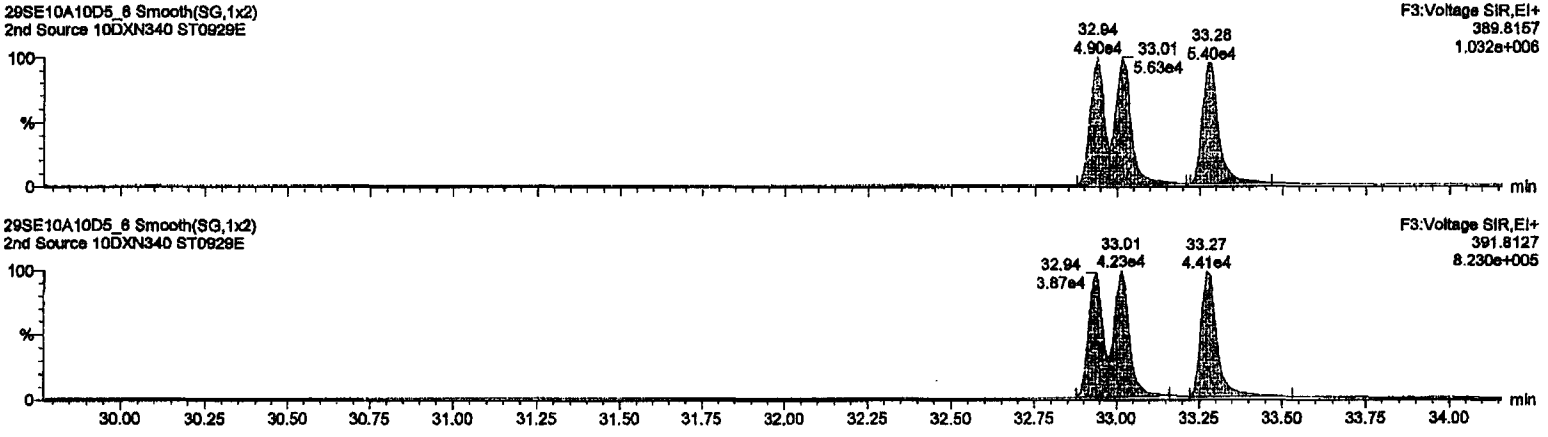
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

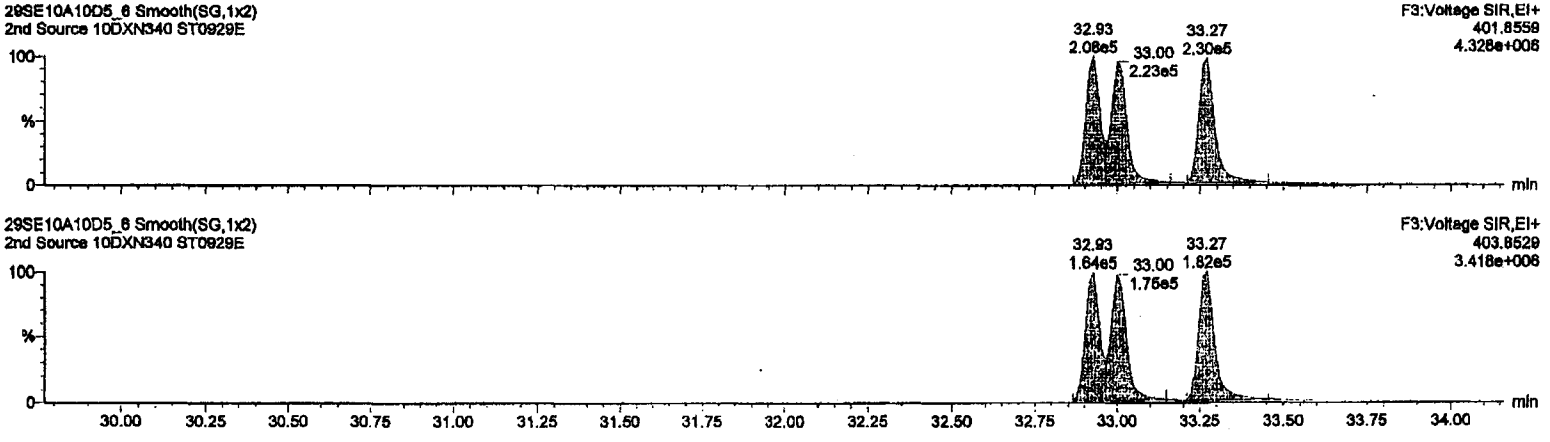
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

HxCDDs



13C-1,2,3,6,7,8-HxCDD



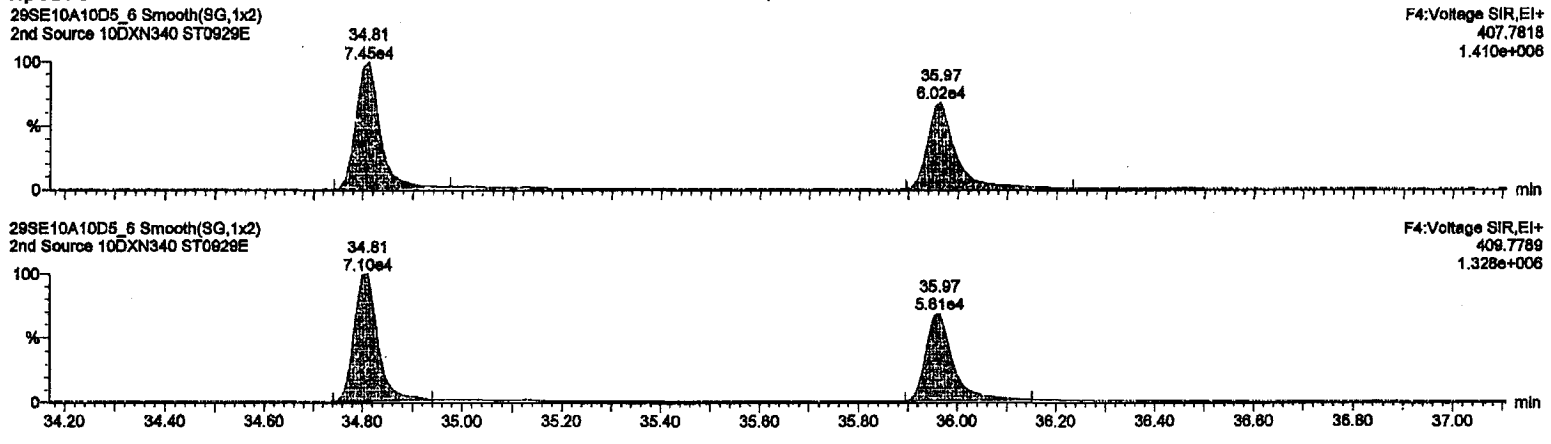
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

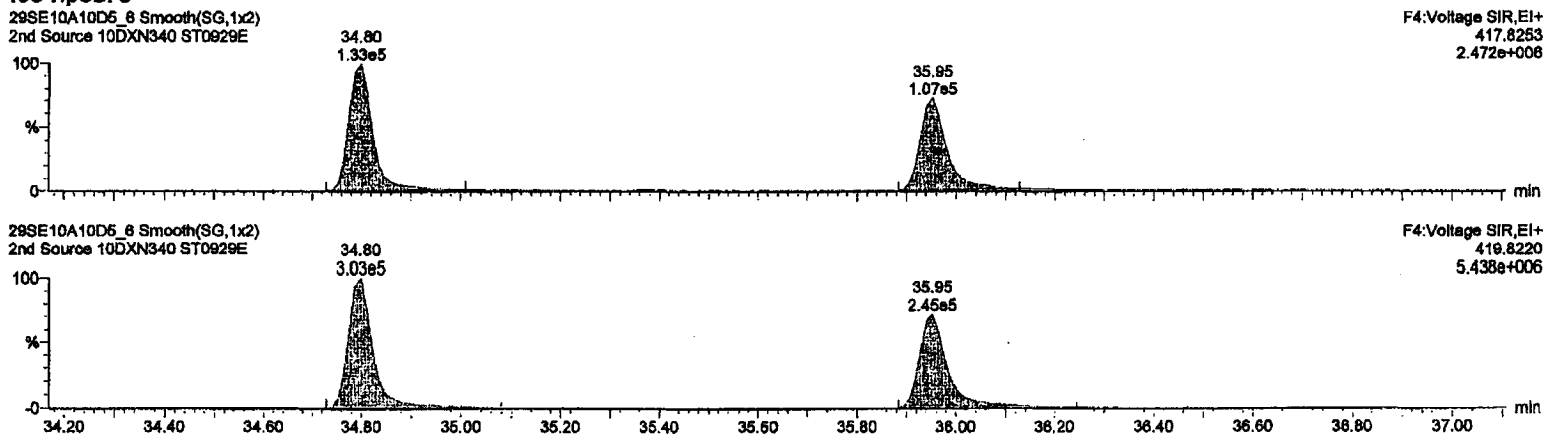
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

HpCDFs



13C-HpCDFs



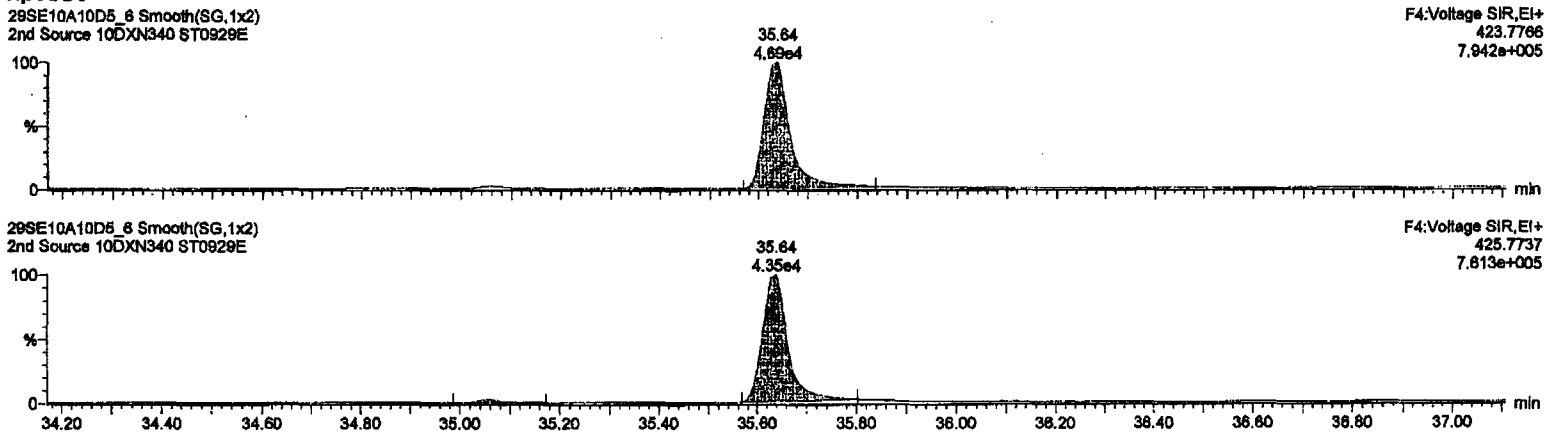
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

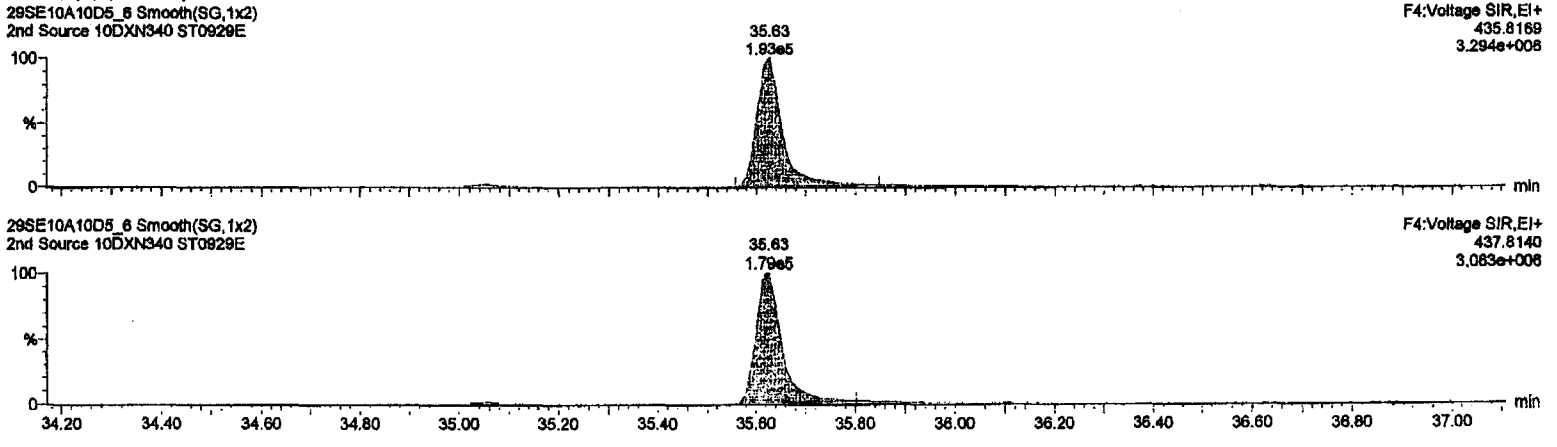
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



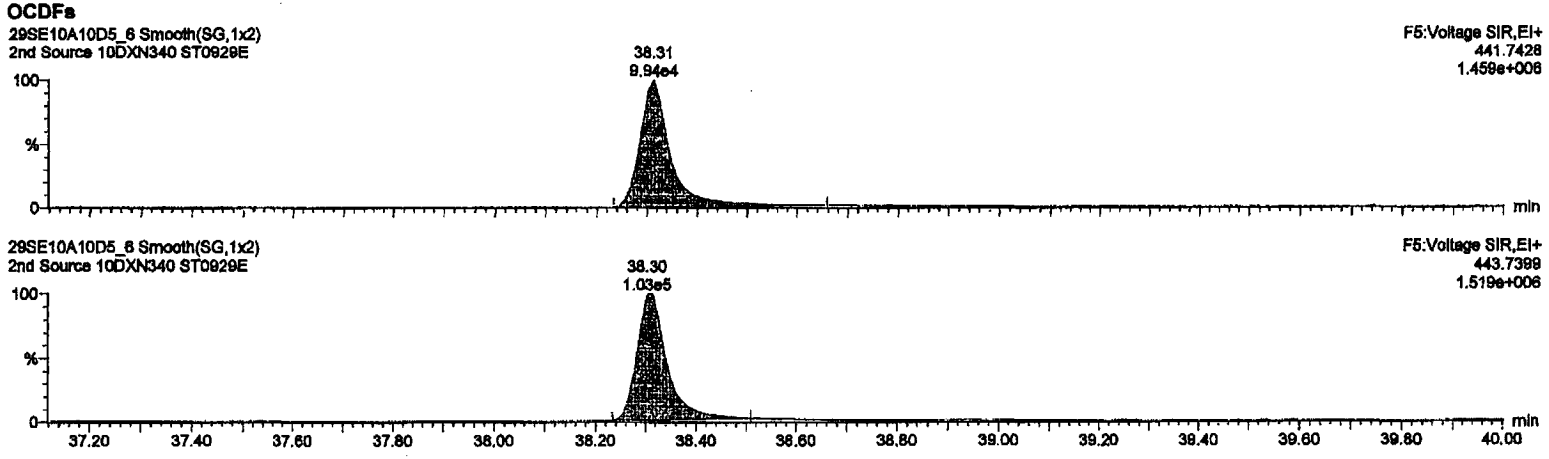
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

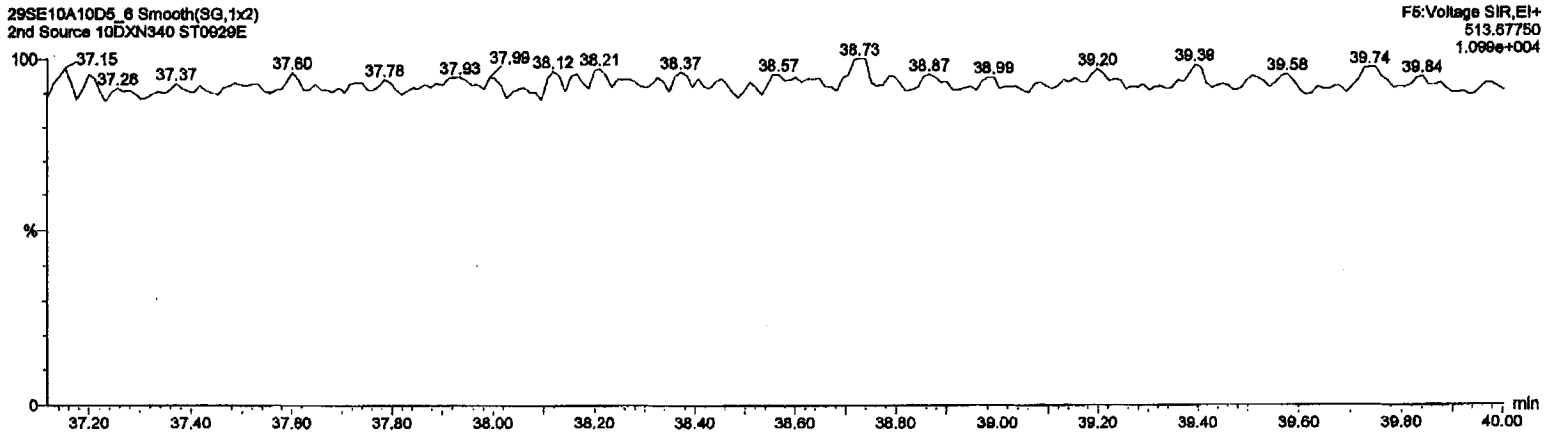
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

OCDFs



OCDF PCDPE



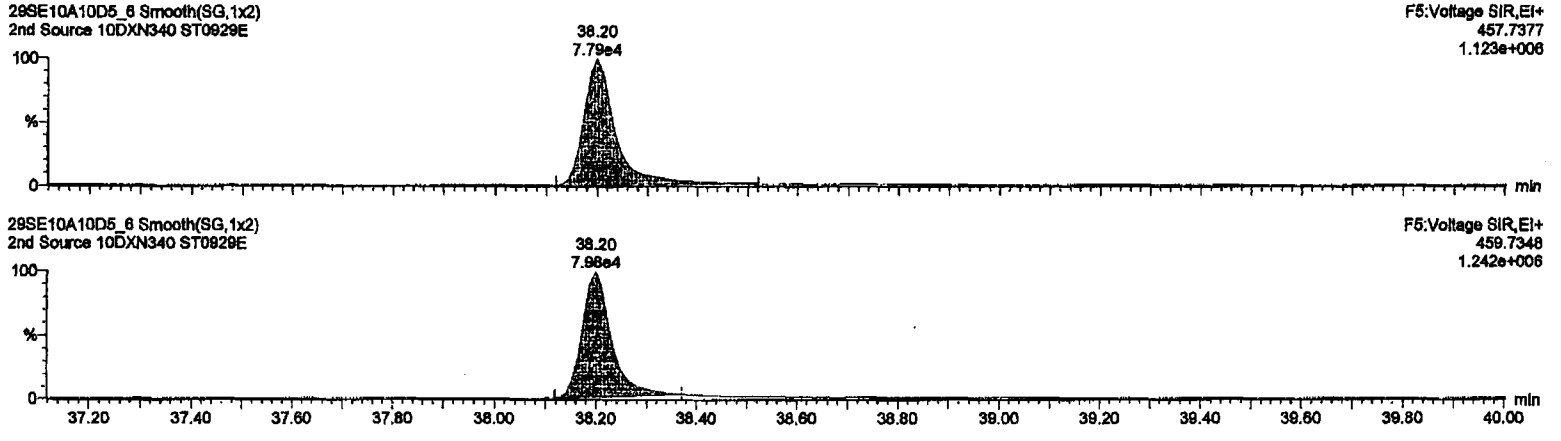
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

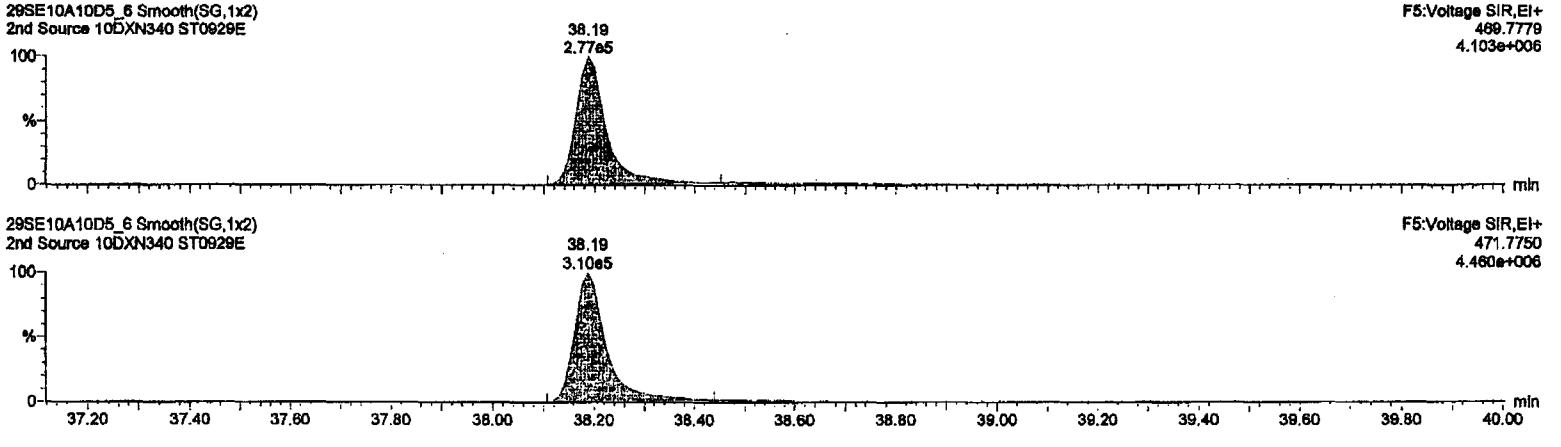
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

OCDD



13C-OCDD



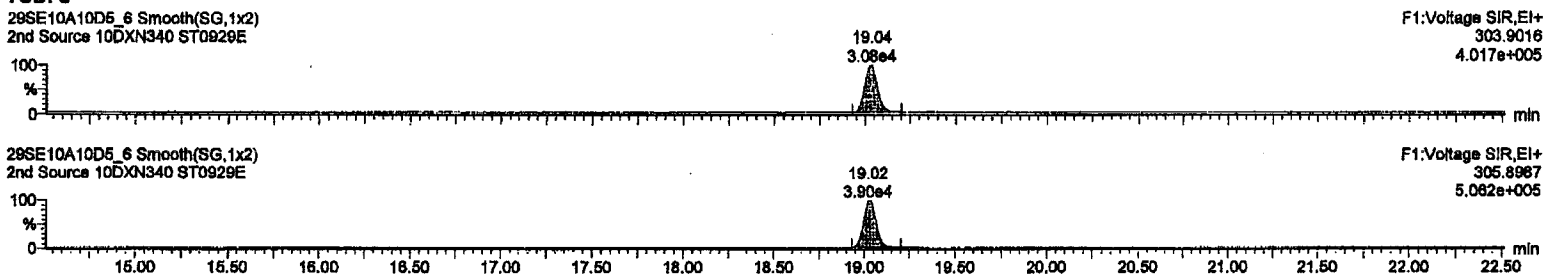
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

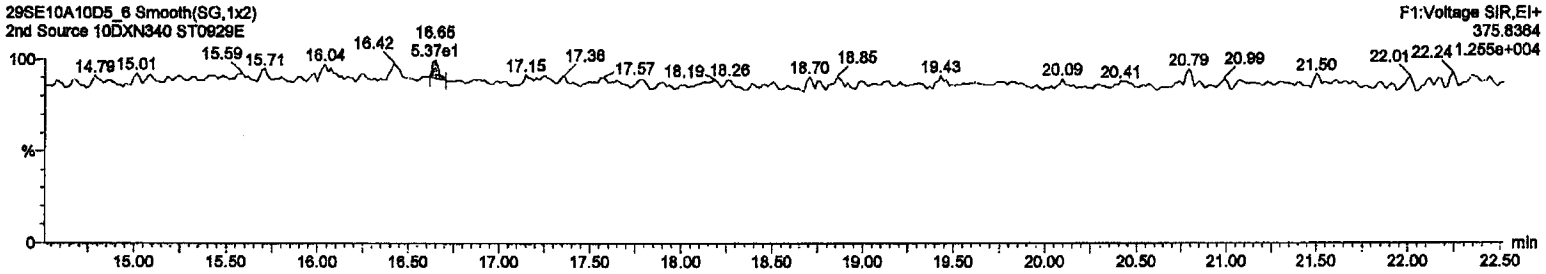
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

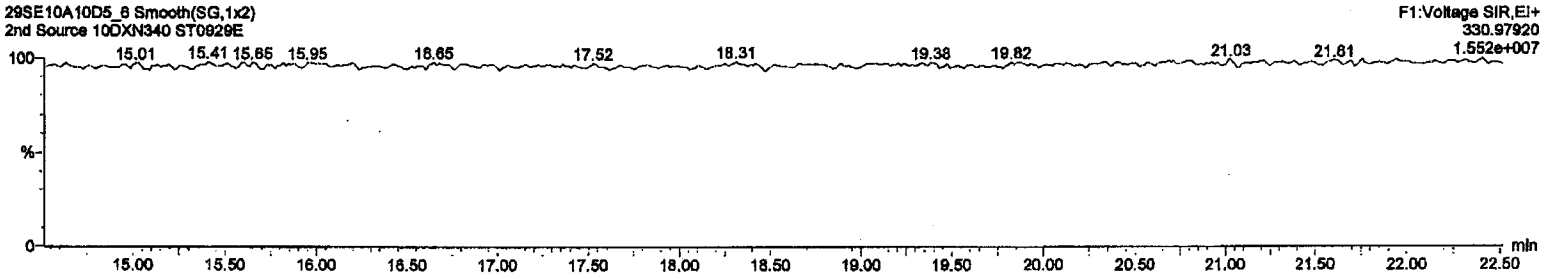
TCDFs



TCDF PCDPE



Function 1 PFK



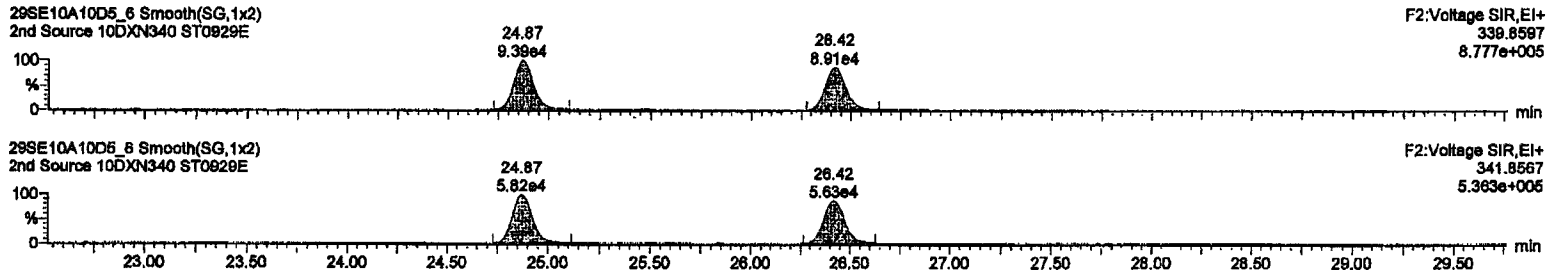
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

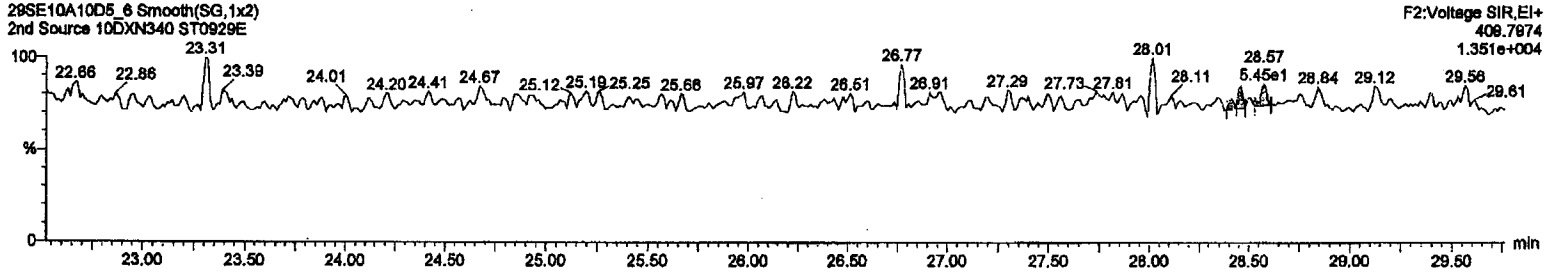
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

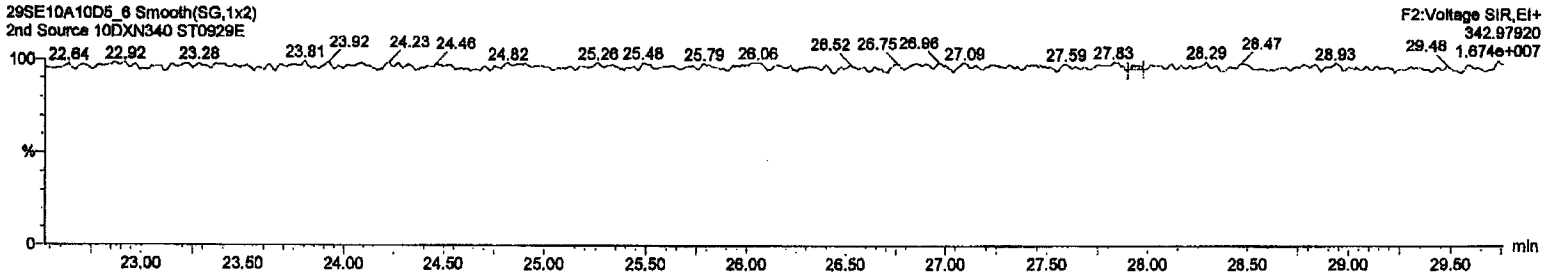
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



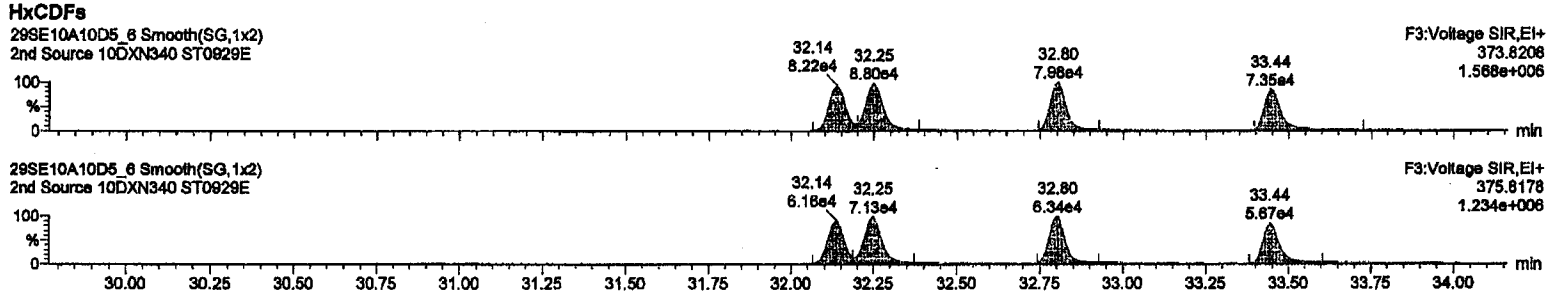
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

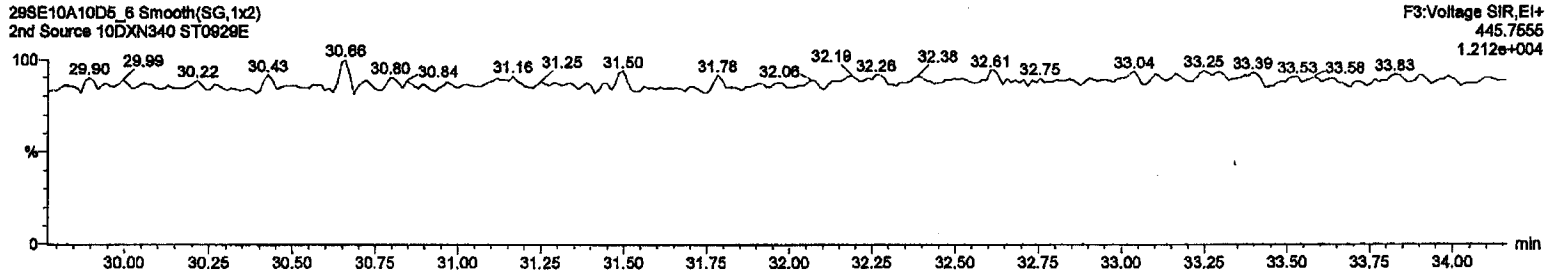
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

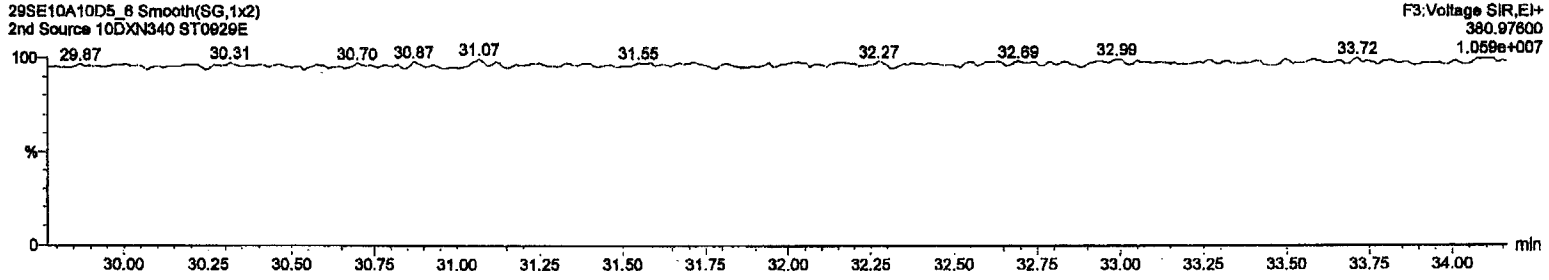
HxCDFs



HxCDF PCDPE



Function 3 PFK



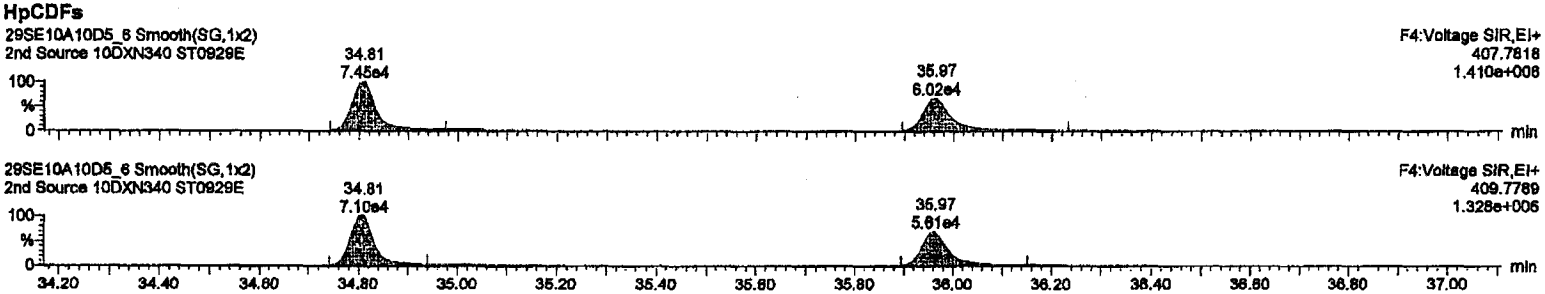
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

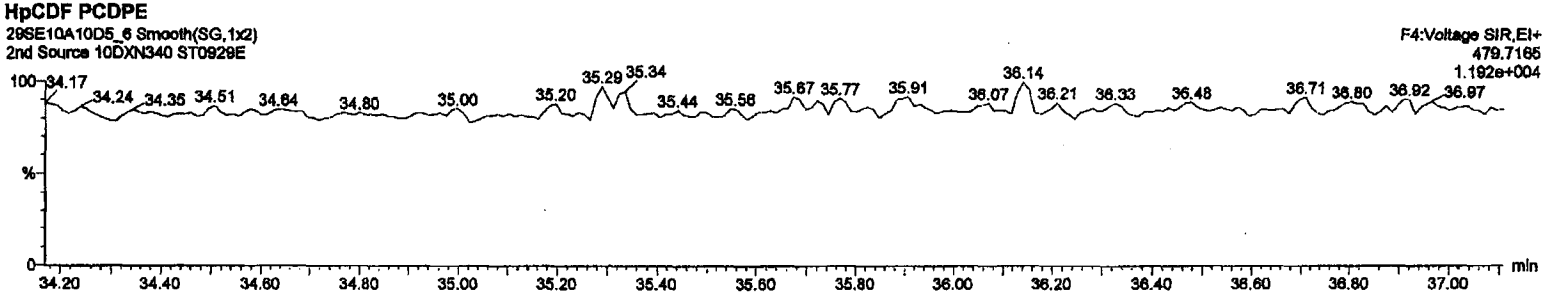
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

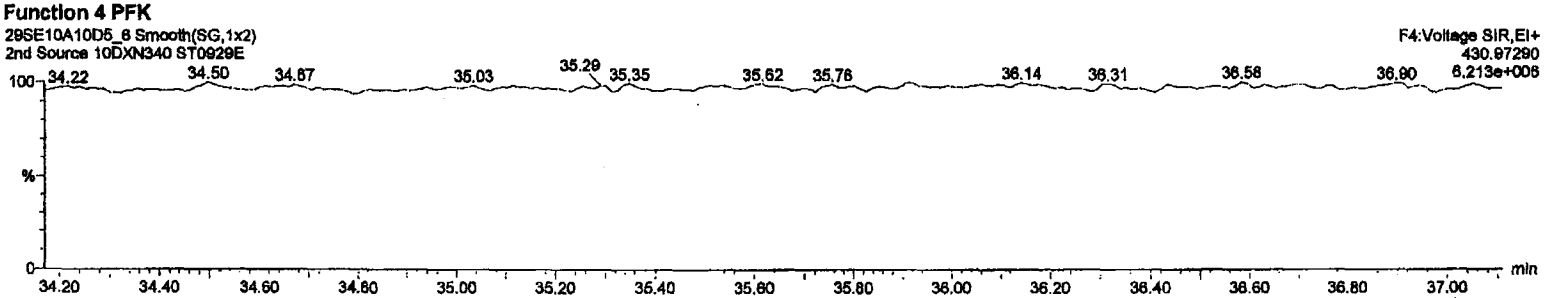
HpCDFs



HpCDF PCDPE



Function 4 PFK



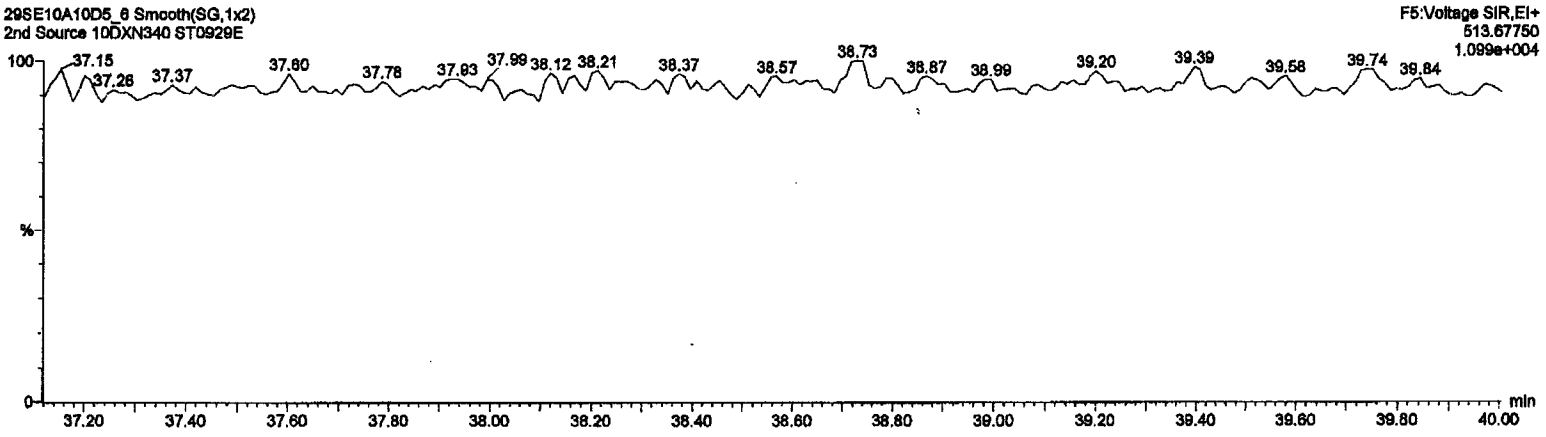
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

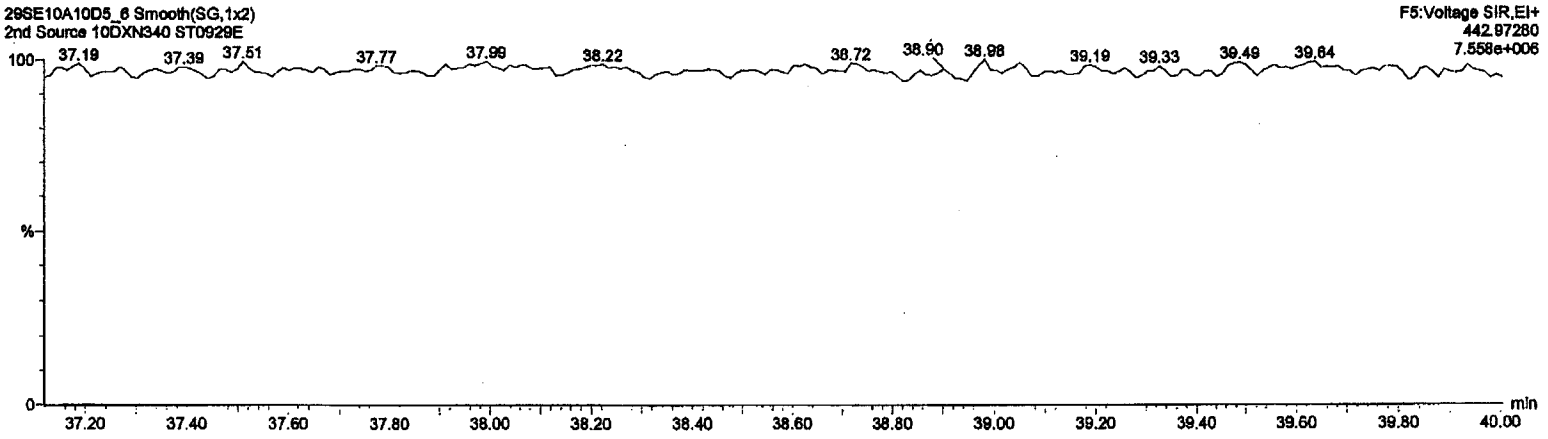
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_6, Date: 29-Sep-2010, Time: 22:21:13, ID: ST0929E, Description: 2nd Source 10DXN340

OCDF PCDPE



Function 5 PFK



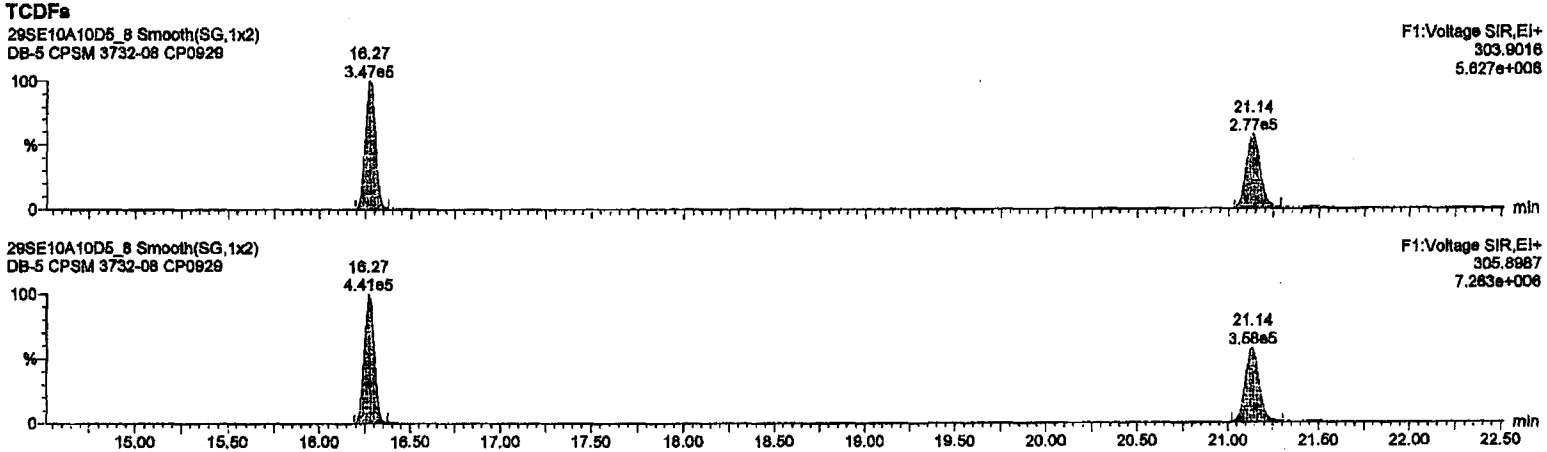
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

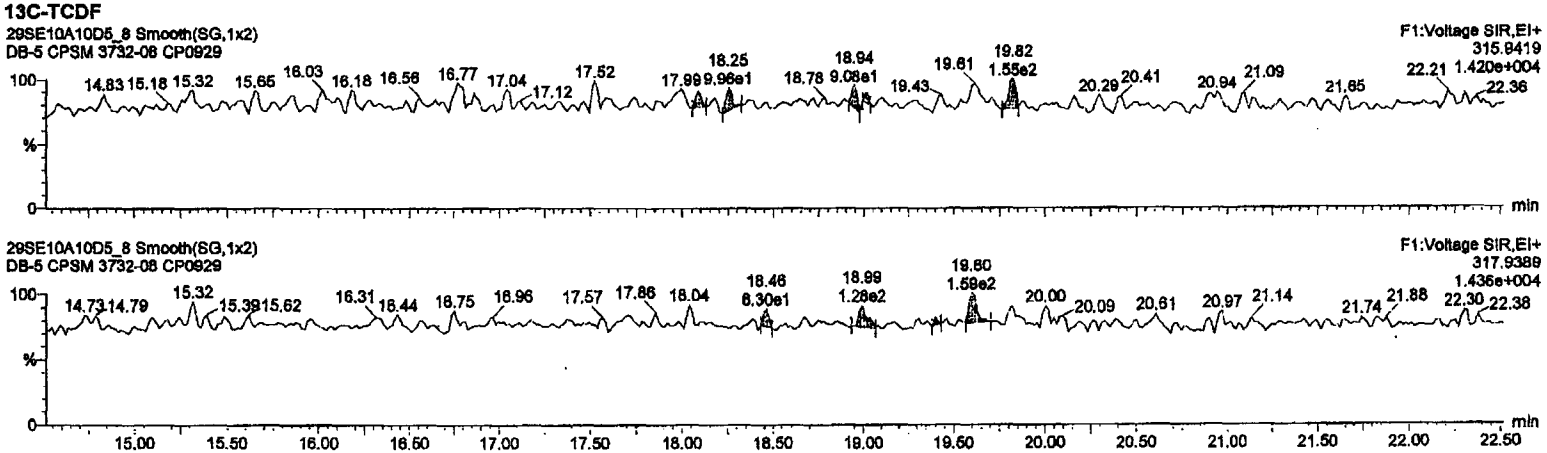
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

TCDFs



13C-TCDF



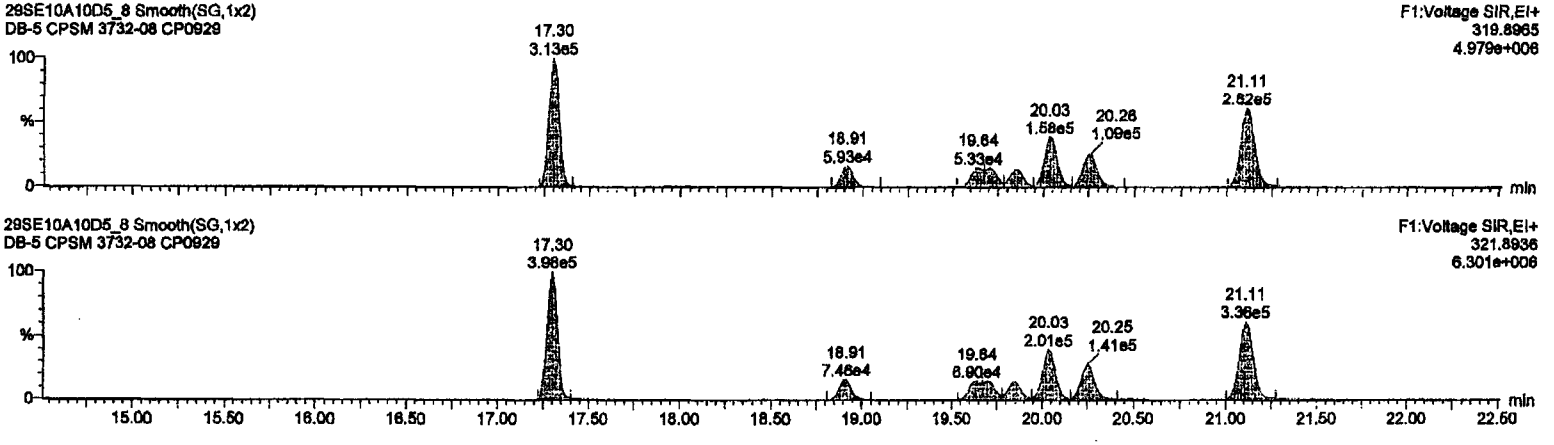
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

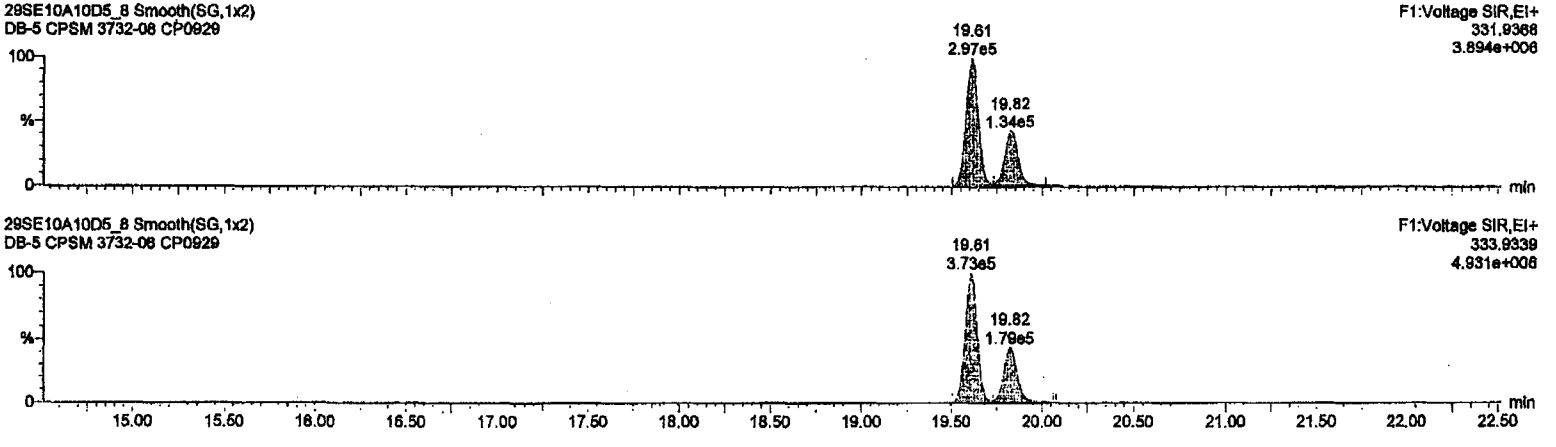
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

TCDDs



13C-TCDDs



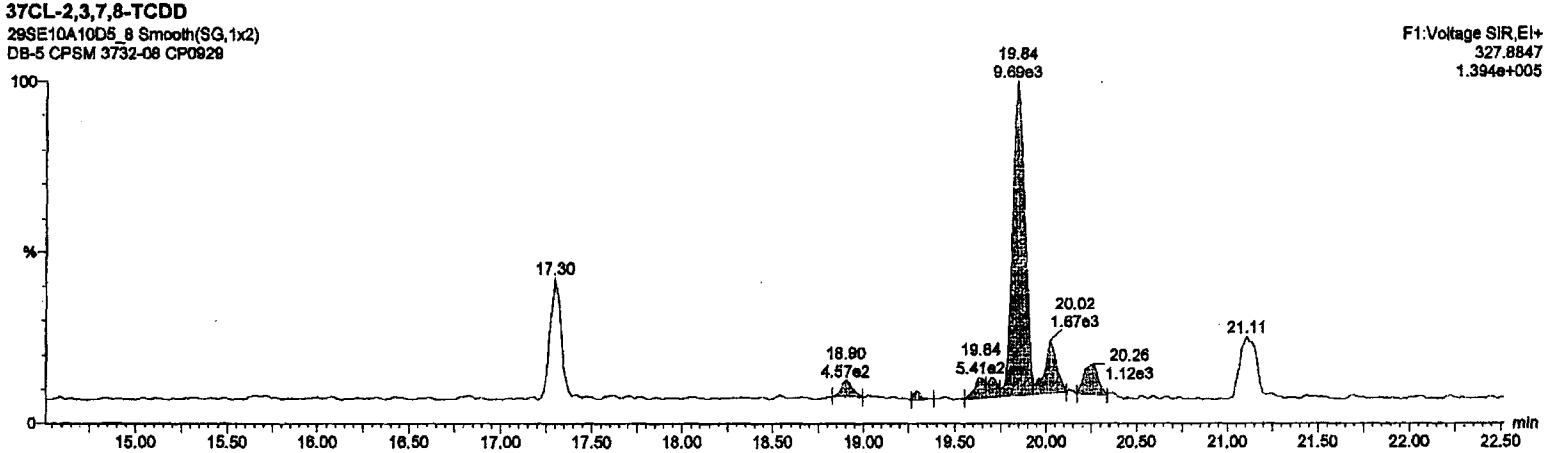
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

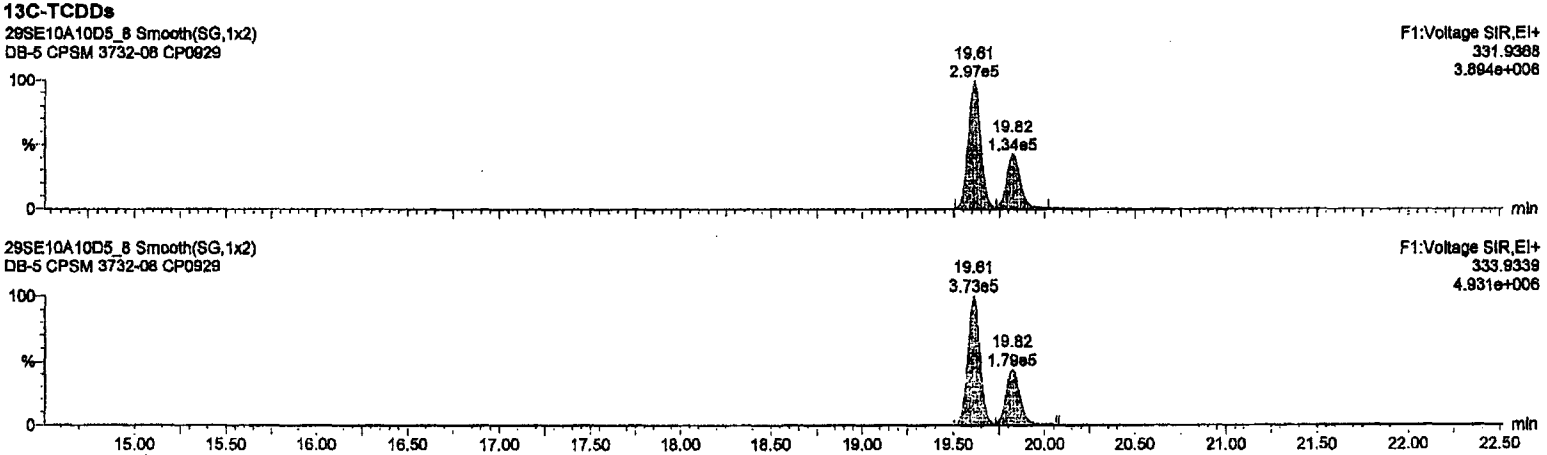
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

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



13C-TCDDs



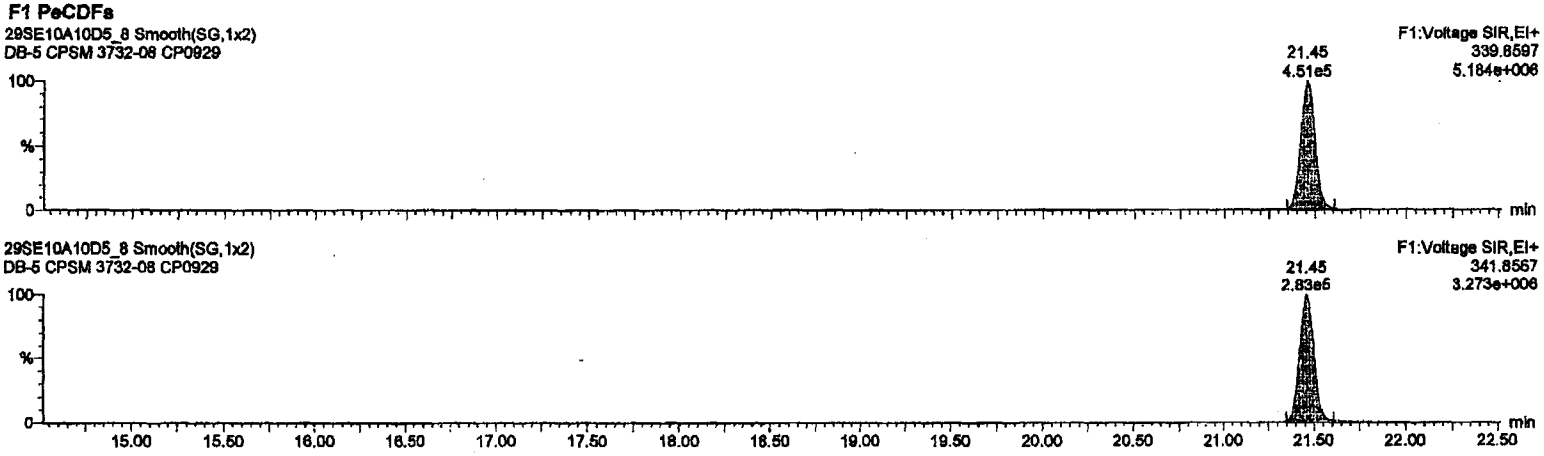
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

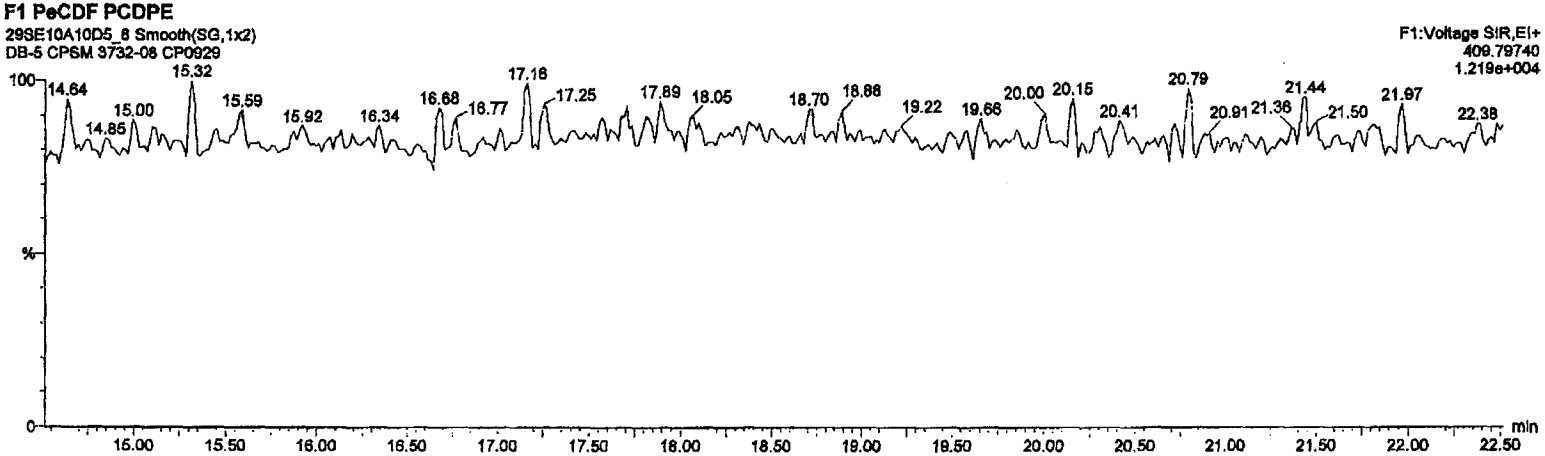
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

F1 PeCDFs



F1 PeCDF PCDPE



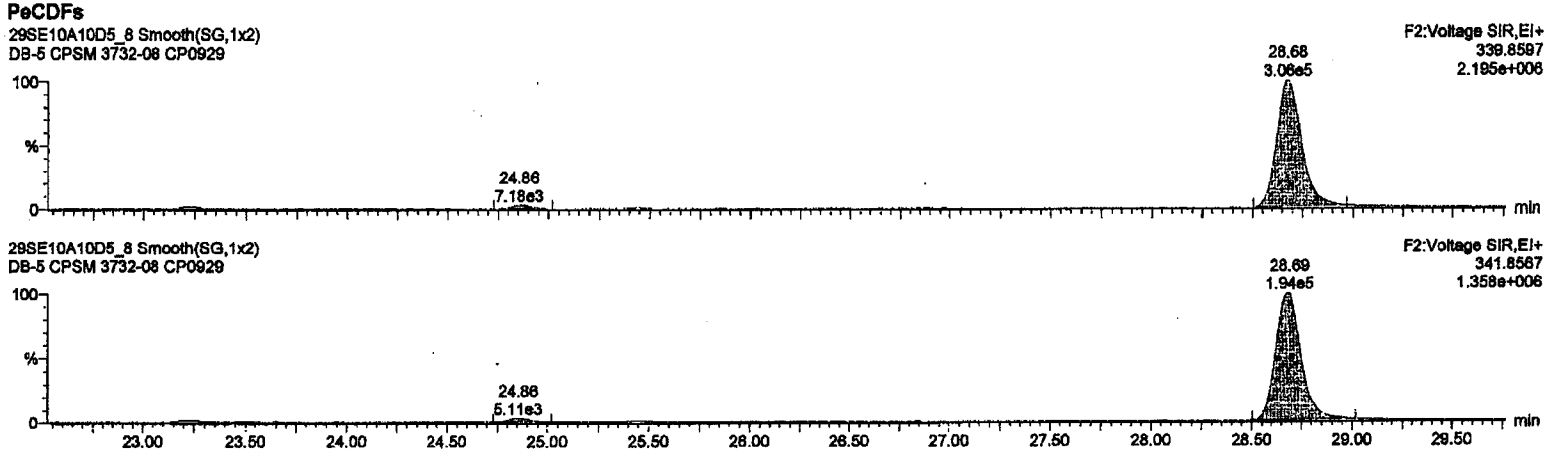
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

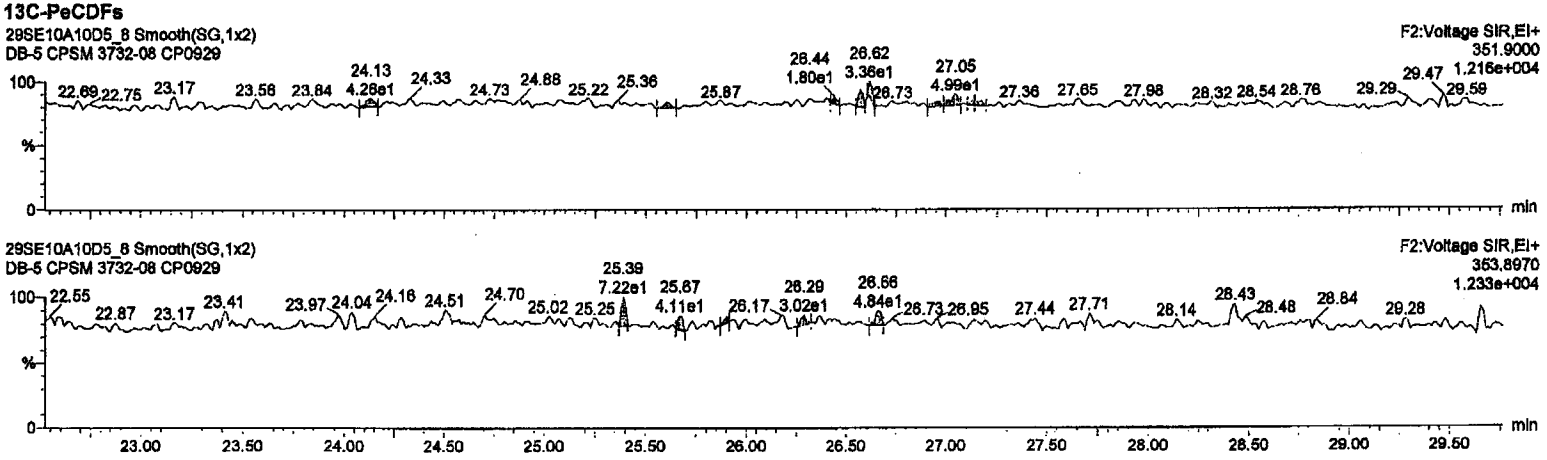
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

PeCDFs



13C-PeCDFs



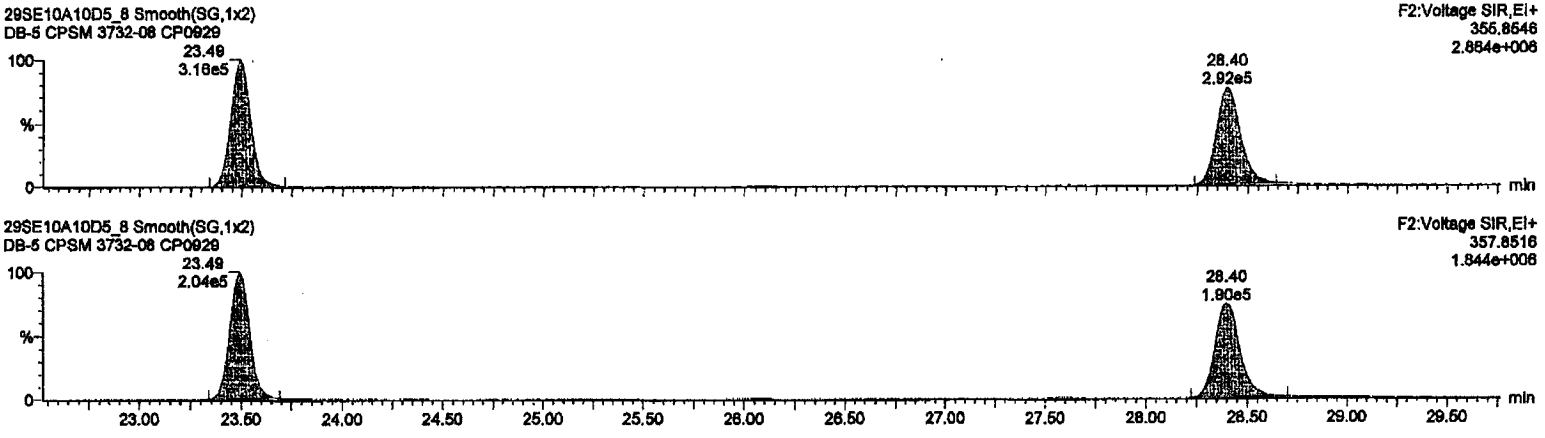
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

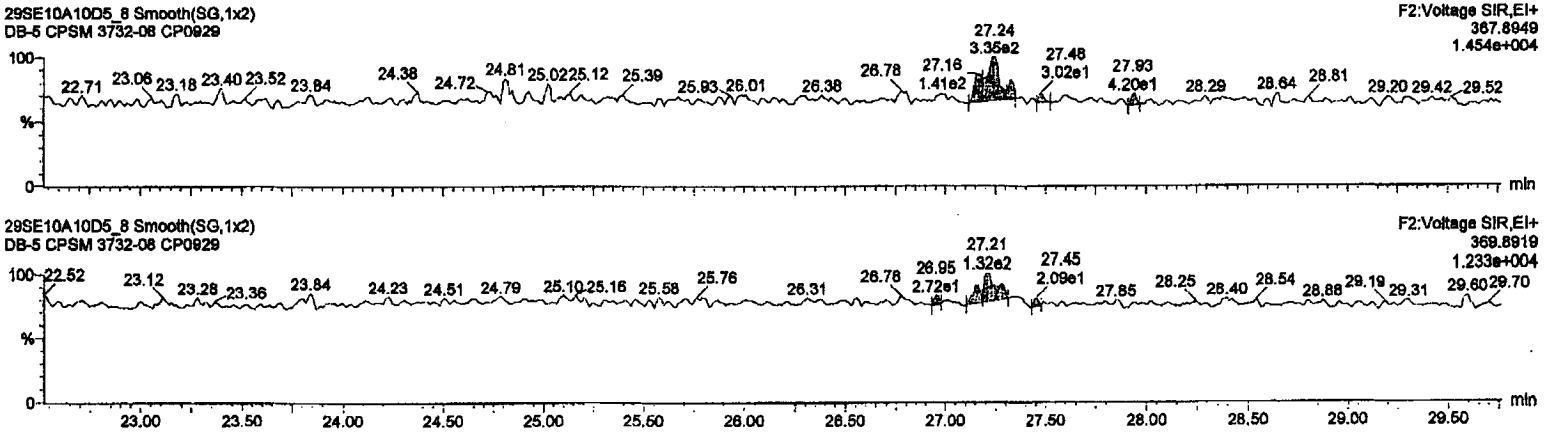
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

PeCDDs



13C-PeCDD



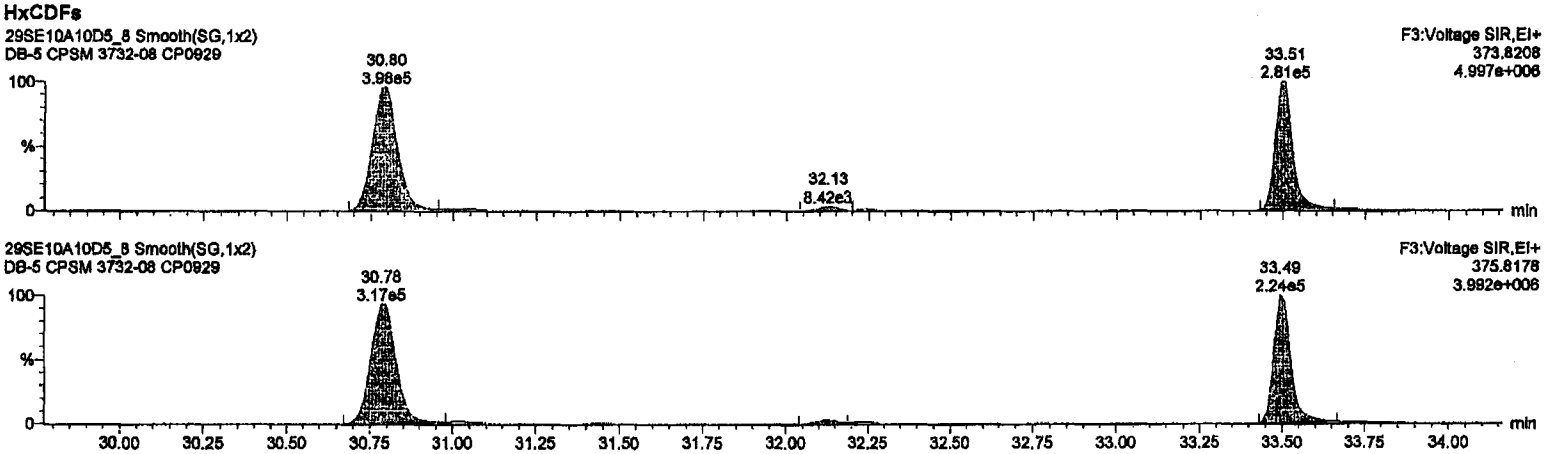
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

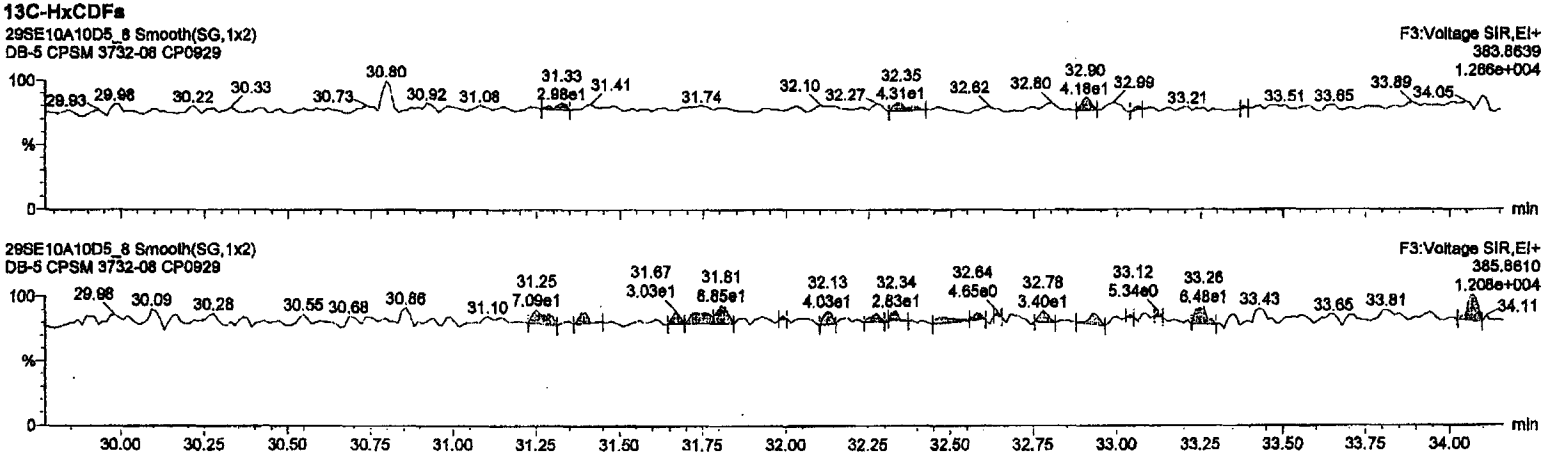
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

HxCDFs



13C-HxCDFs



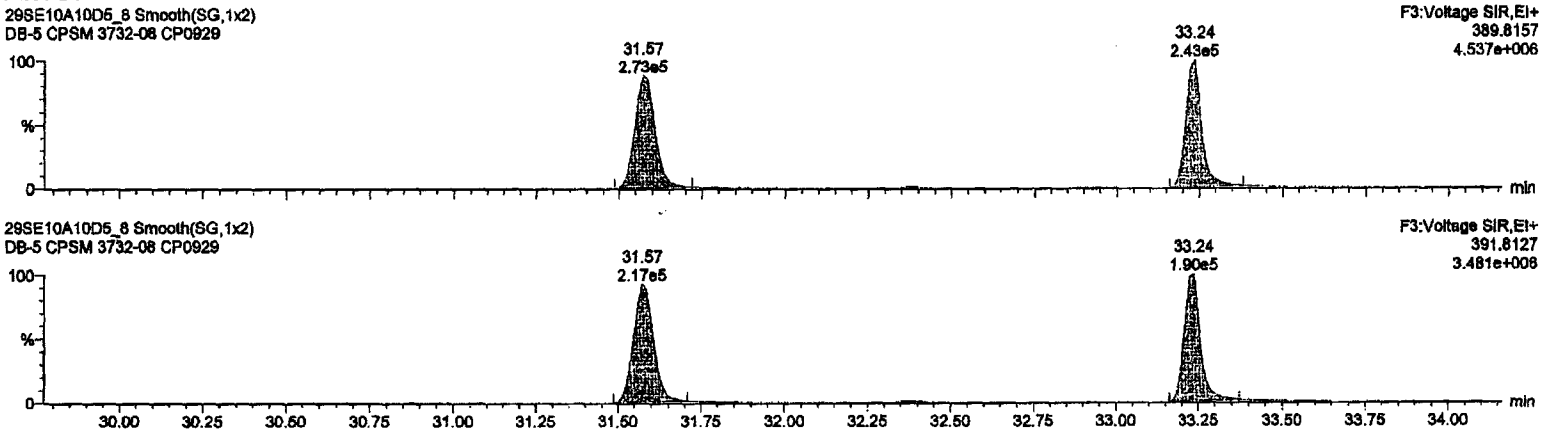
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

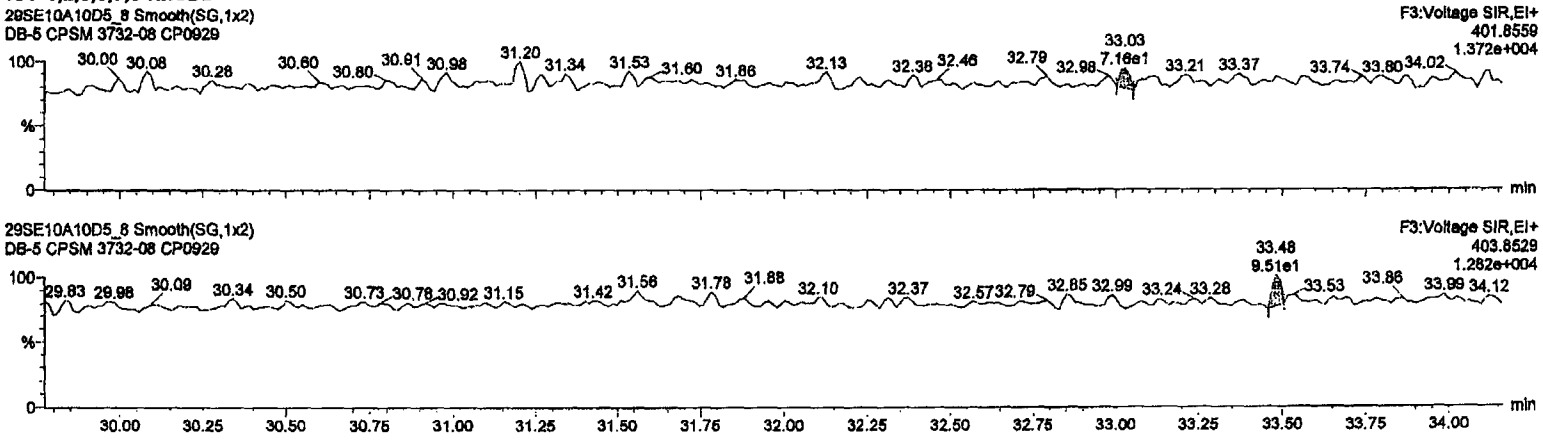
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

HxCDDs



13C-1,2,3,6,7,8-HxCDD



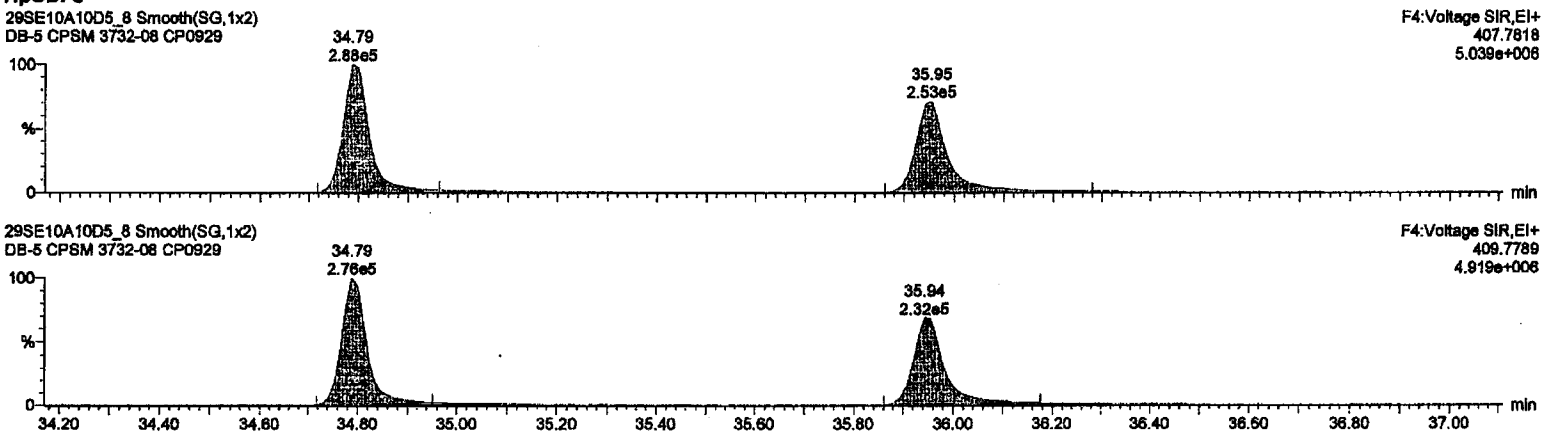
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

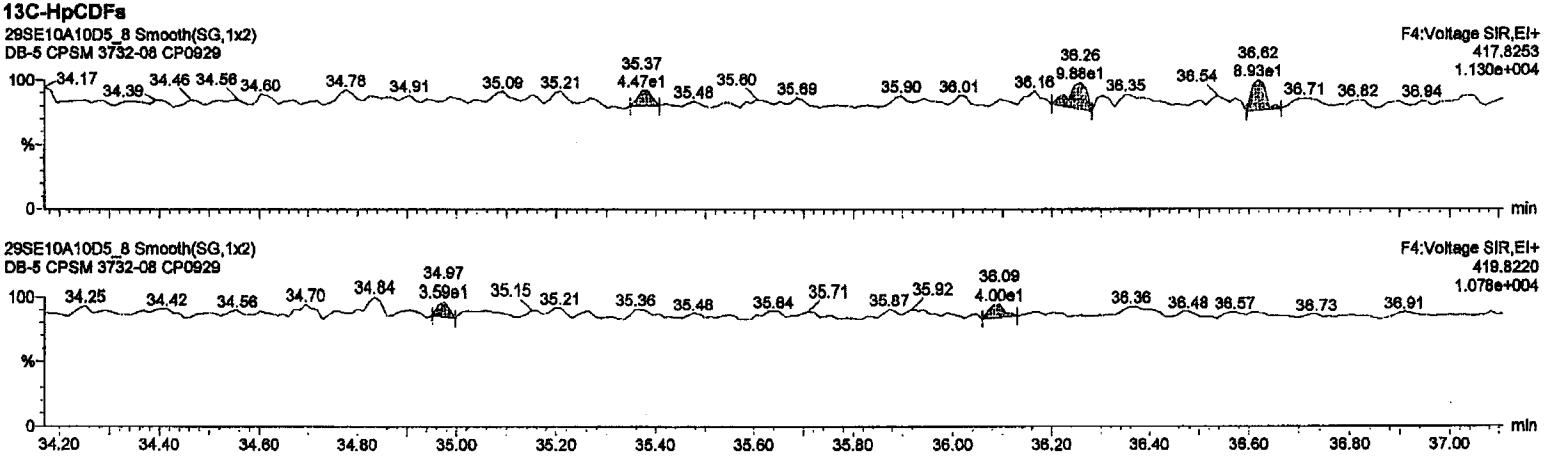
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

HpCDFs



13C-HpCDFs



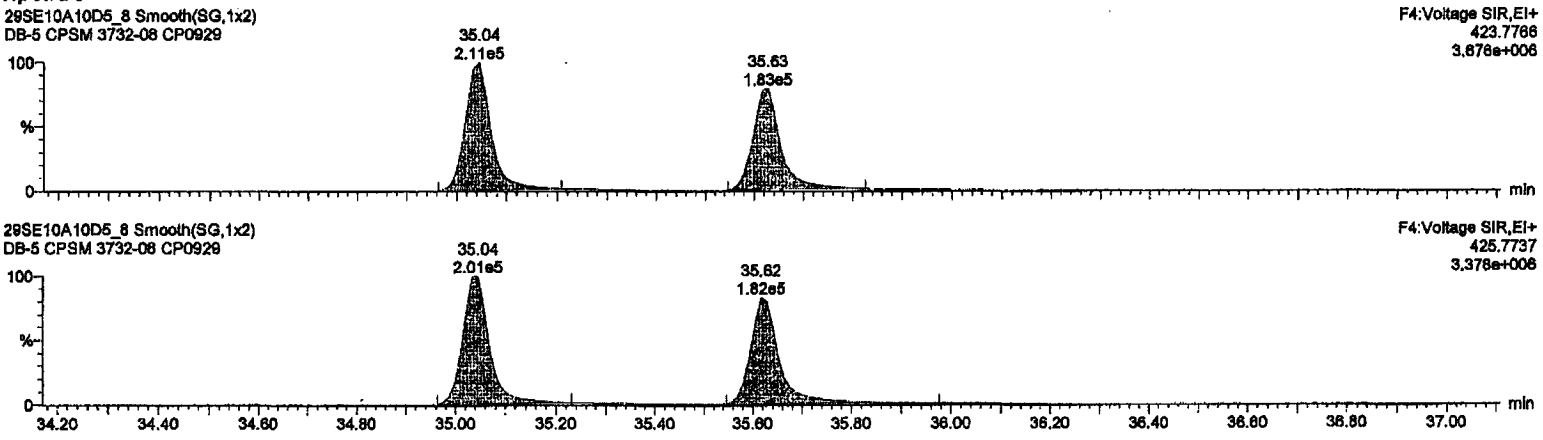
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

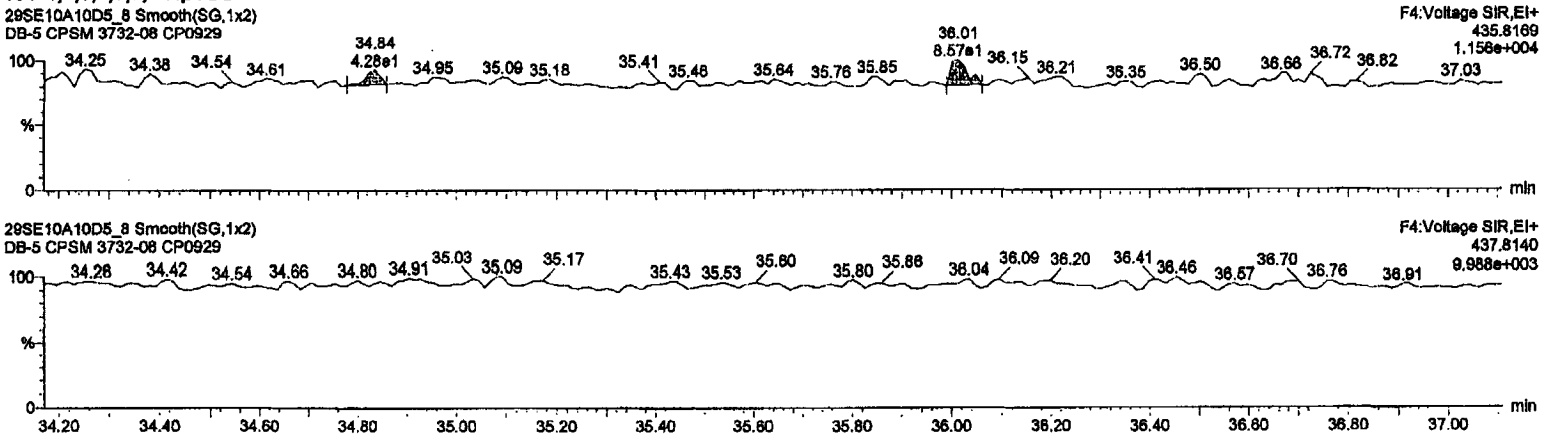
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

HpCDDs



13C-1,2,3,4,6,7,8-HpCDD



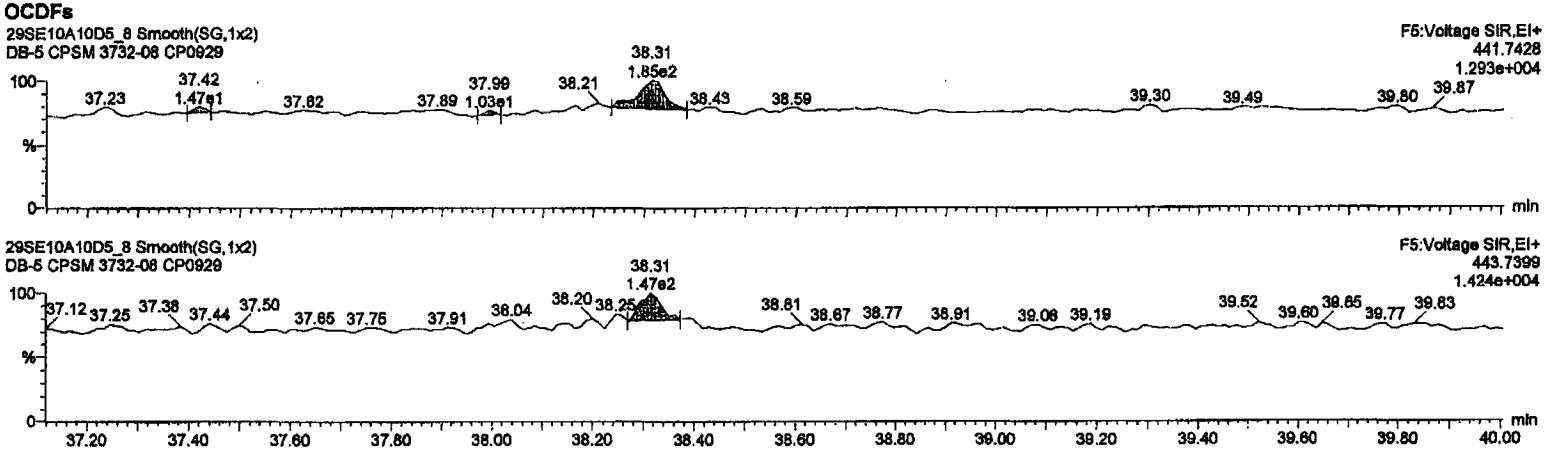
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

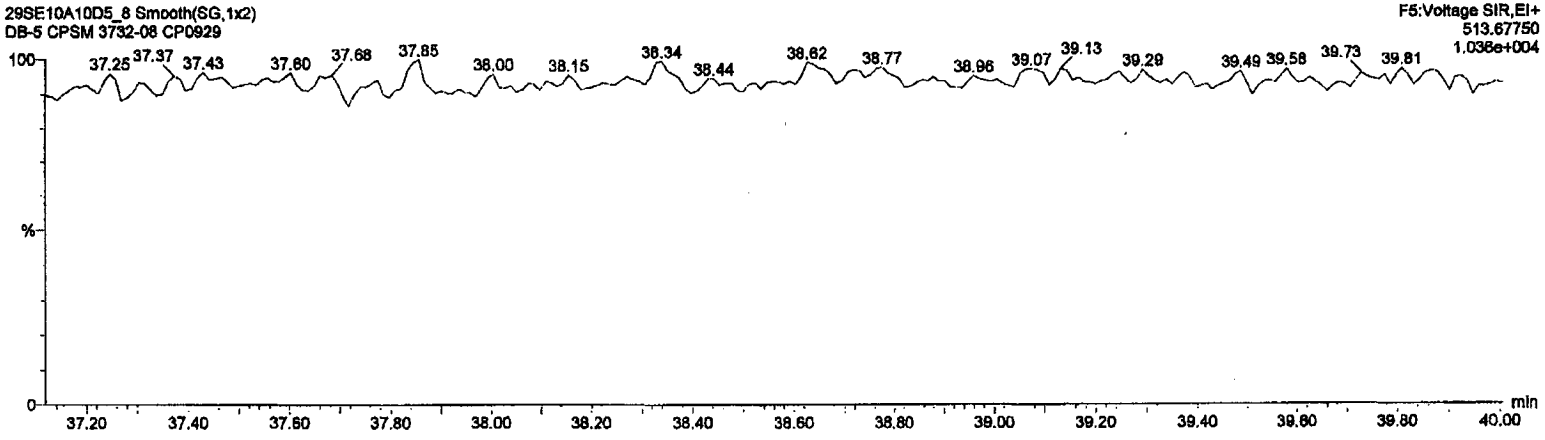
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

OCDFs



OCDF PCDPE



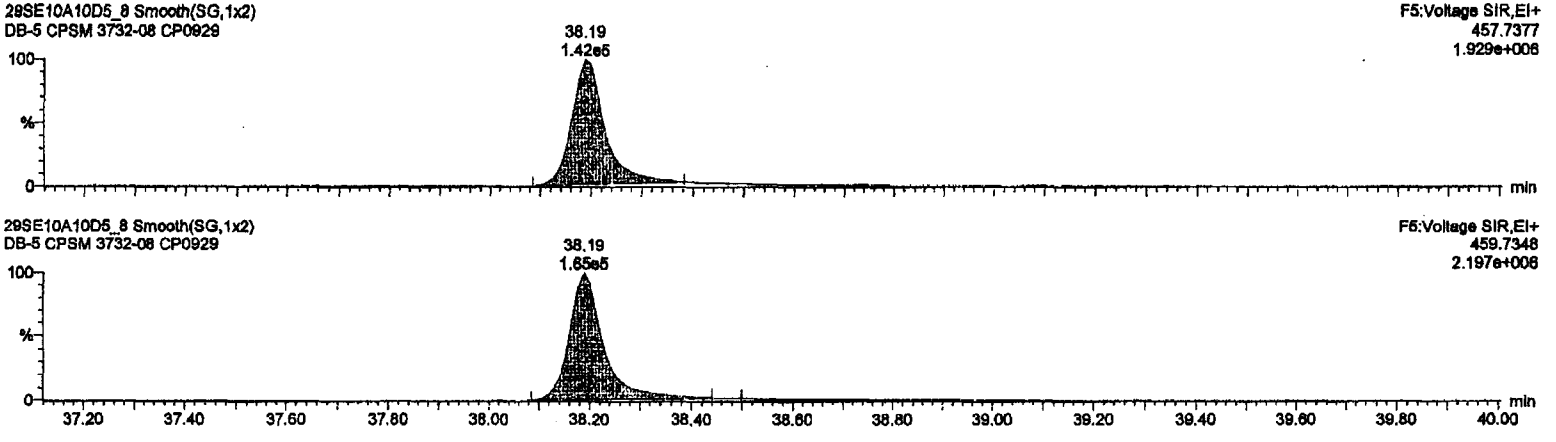
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

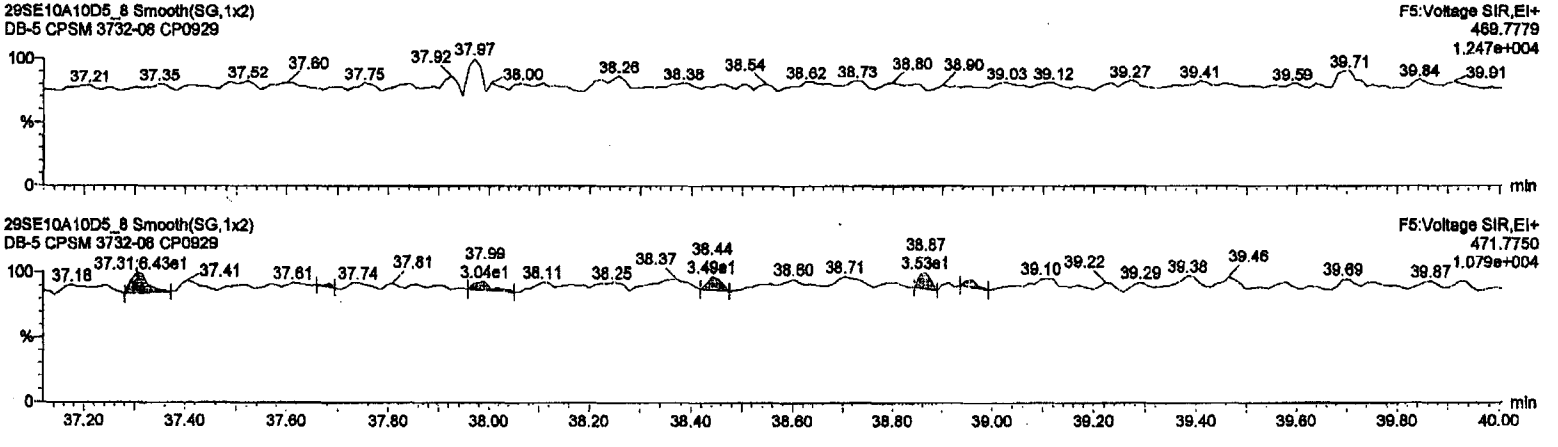
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

OCDD



13C-OCDD



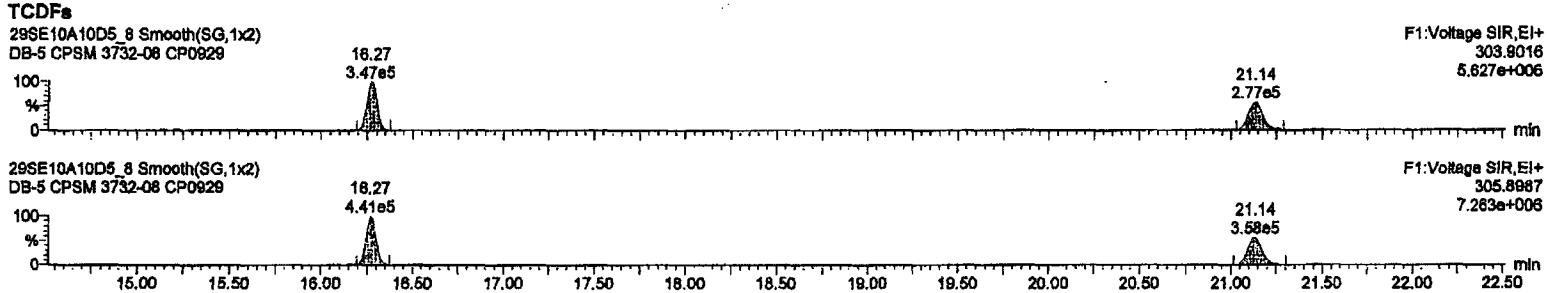
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

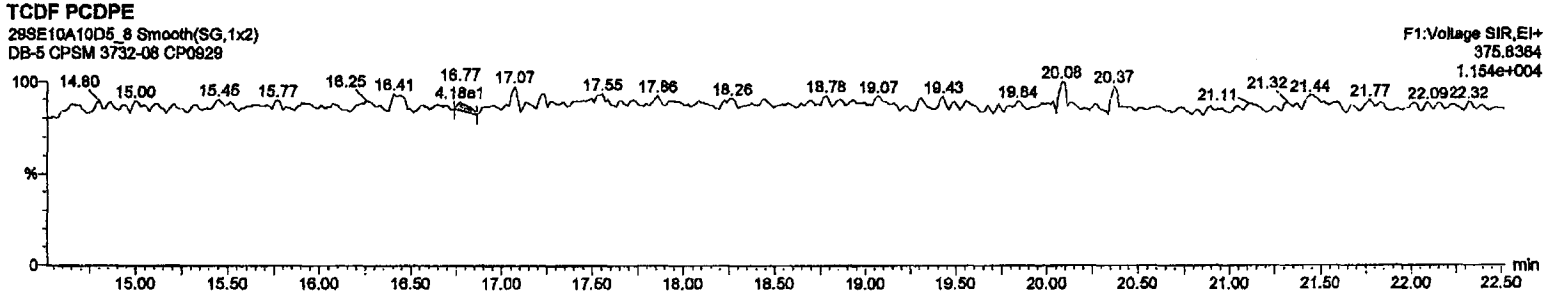
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

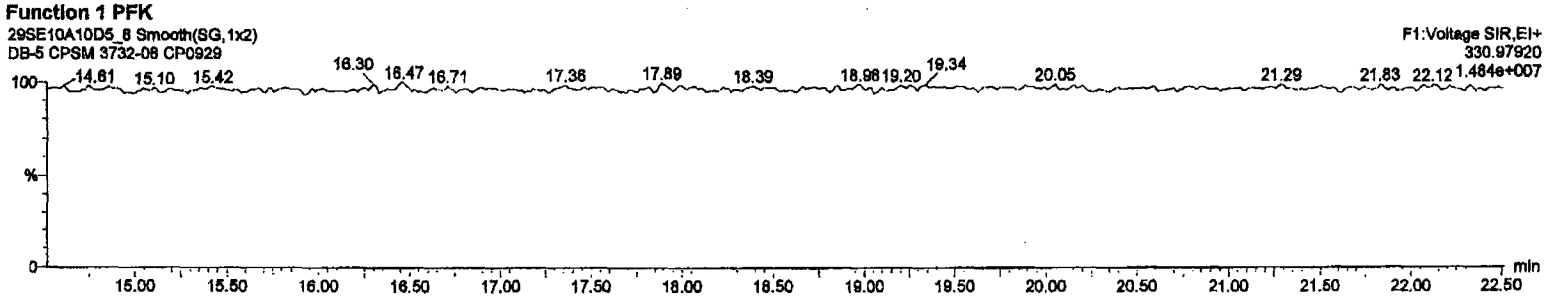
TCDFs



TCDF PCDPE



Function 1 PFK



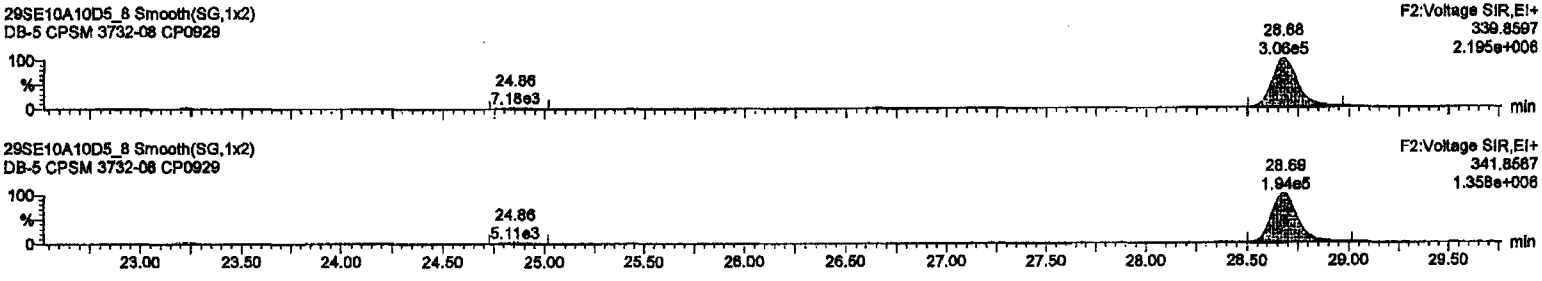
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

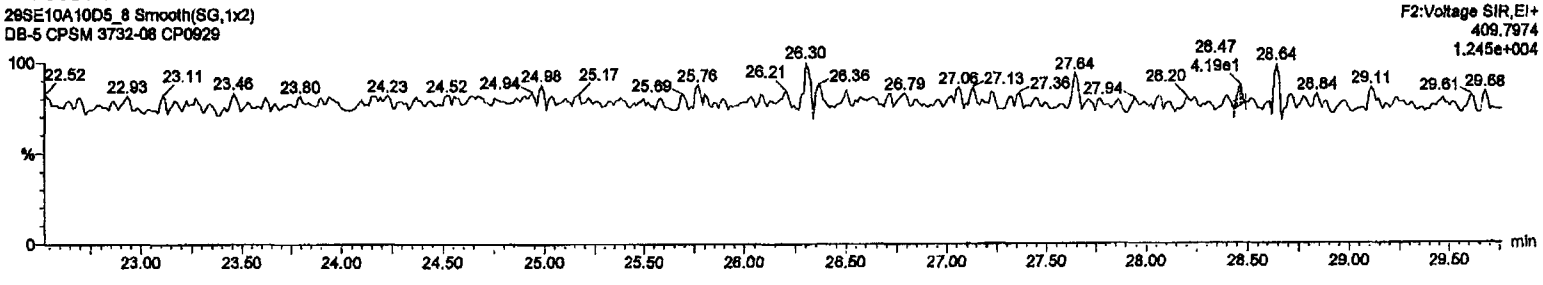
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

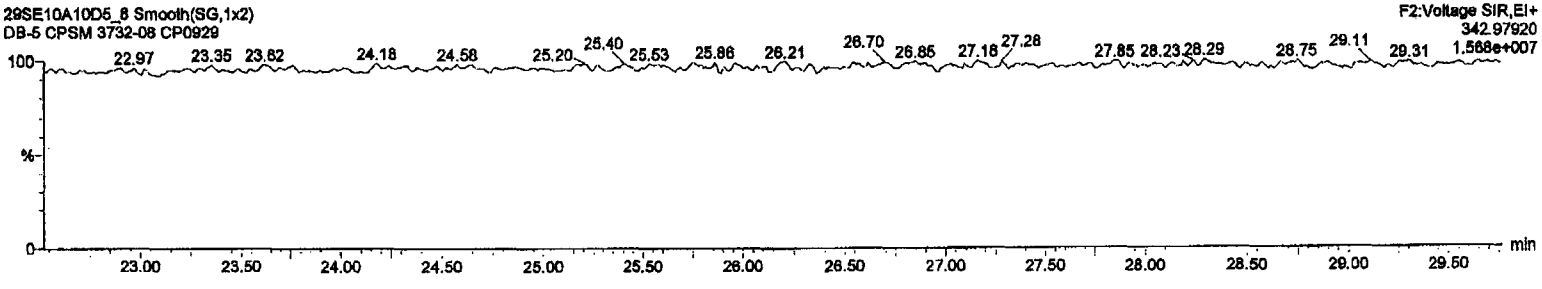
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



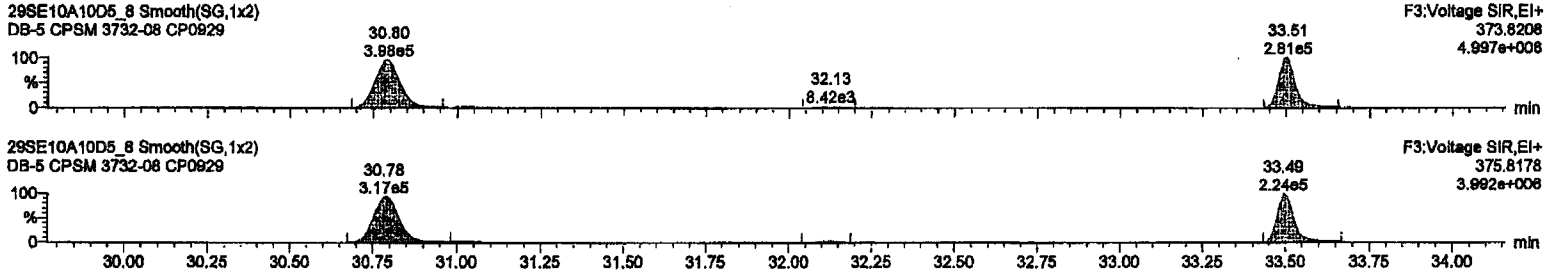
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

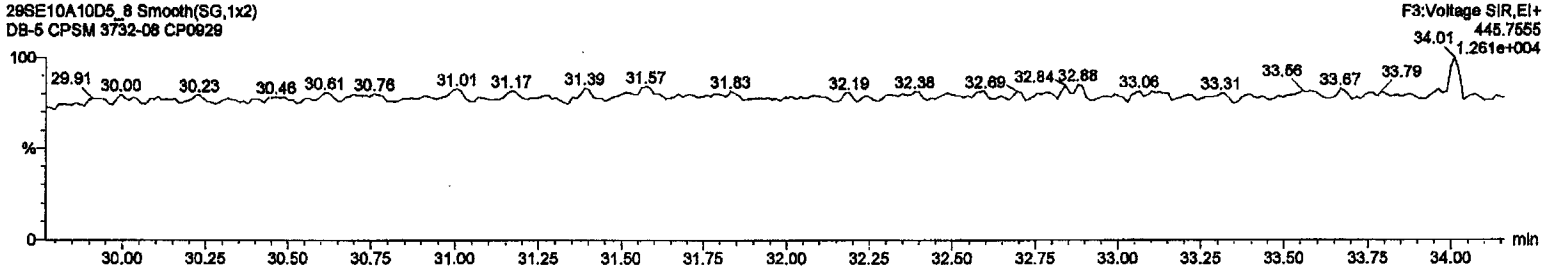
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

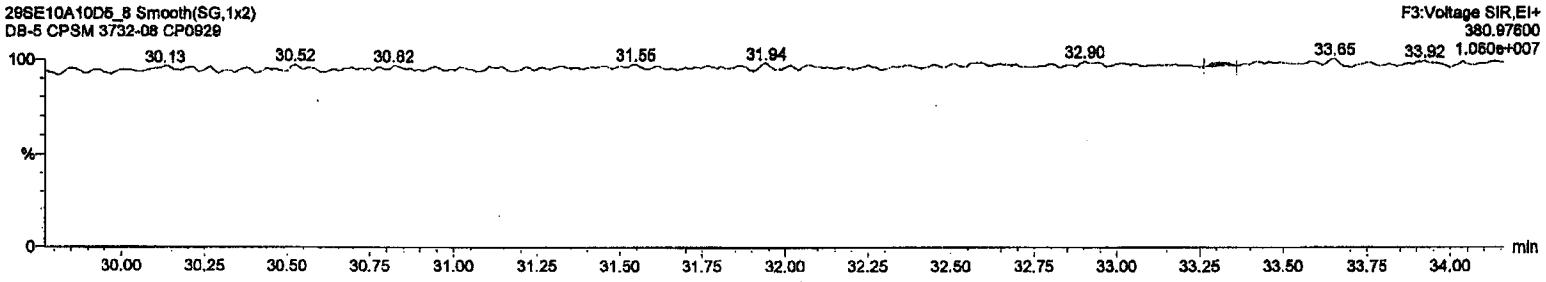
HxCDFs



HxCDF PCDPE



Function 3 PFK



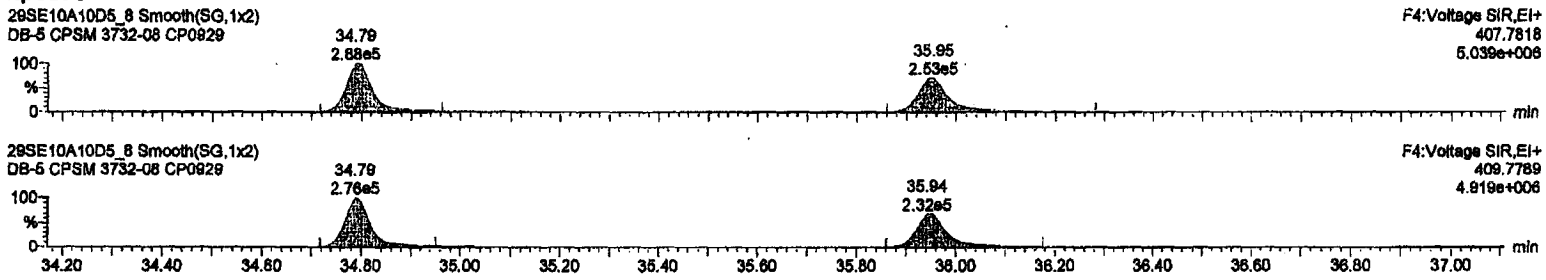
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

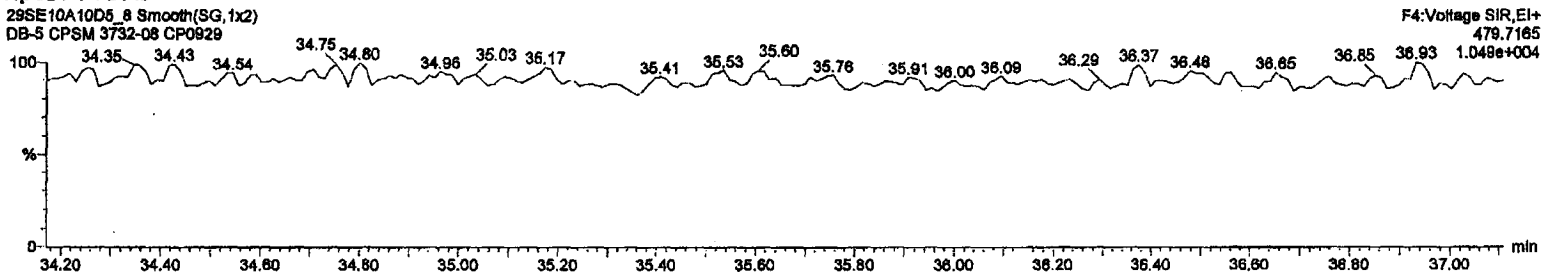
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

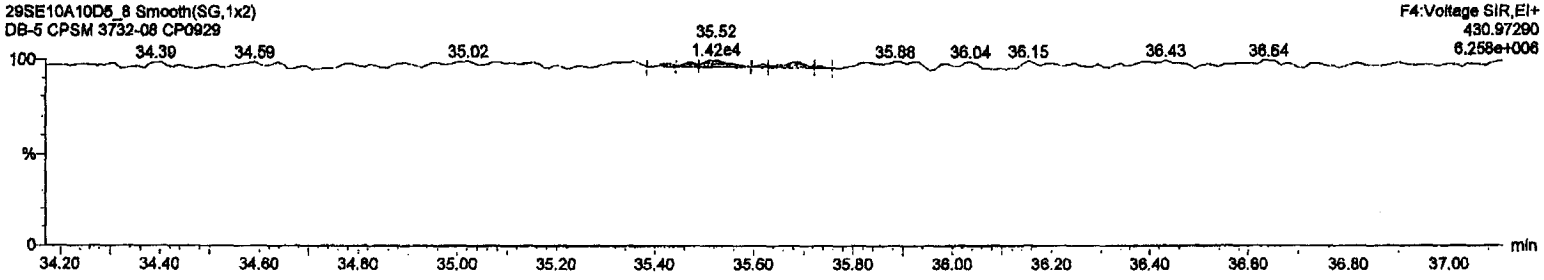
HpCDFs



HpCDF PCDPE



Function 4 PFK



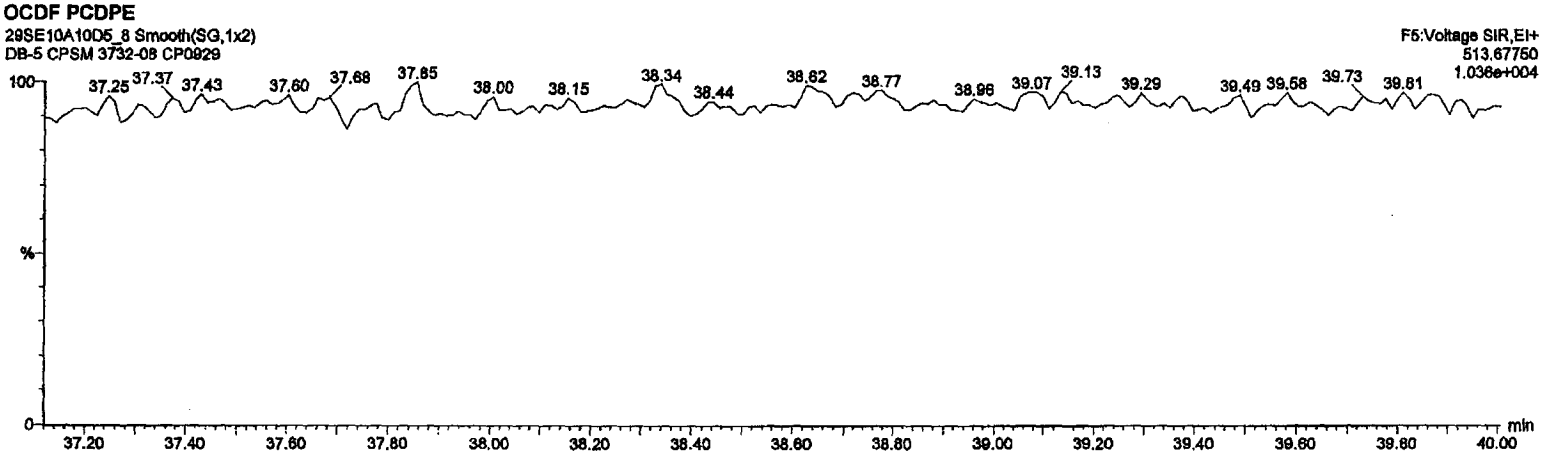
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\Default.pro\29SE1010D52NDSOURCE.qld

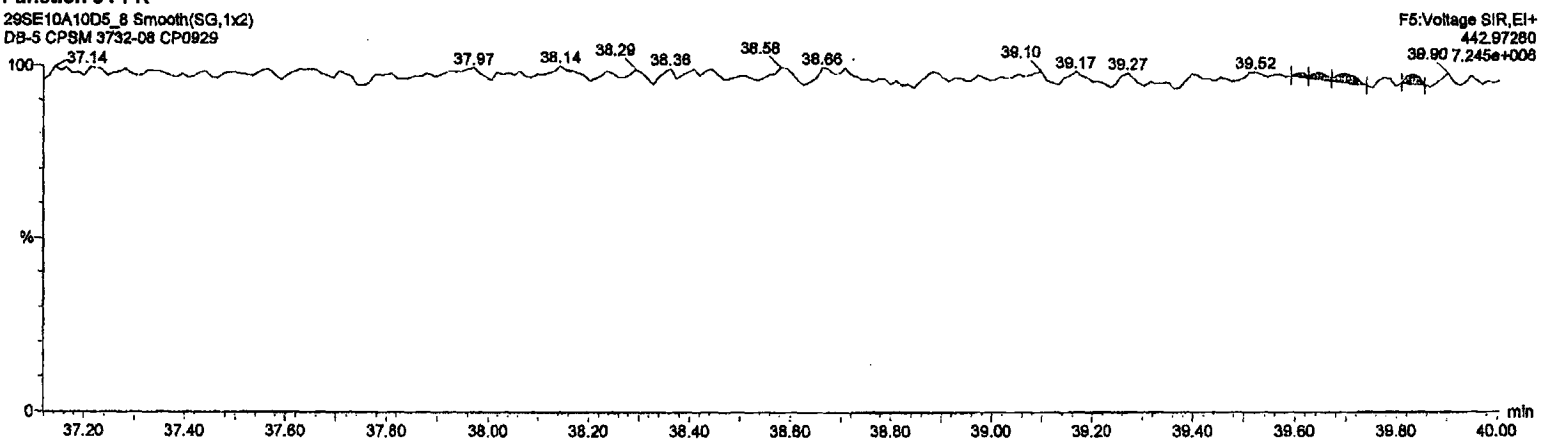
Last Altered: Thursday, September 30, 2010 10:31:02 Pacific Daylight Time
Printed: Thursday, September 30, 2010 10:32:02 Pacific Daylight Time

Name: 29SE10A10D5_8, Date: 29-Sep-2010, Time: 23:52:50, ID: CP0929, Description: DB-5 CPSM 3732-08

OCDF PCDPE



Function 5 PFK



Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (DB225, DB225AIR) 121410SD2

Method ID 1613B, 8290, TO9, 23, 0023A | Date Scanned _____

Column ID DB225 | Instrument ID 5D2

STD ID's ST1214, ST1214A → D | STD Solution 10DXN (503 → 507)

GC Program DB225 | Multiplier Setting 750 kV

Analyzed By KSS | Date Analyzed 12-14-10

Prepared By KSS | Date Prepared 12-15-10

Reviewed By AS | Date Reviewed 12-15-10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Beginning and Ending Static resolution check present?	✓	✓
DLM02.2: Beginning and ending CPSM blow ups present?	✓	✓
DLM02.2: CPSM valley < 25%. Resolution documented below? **	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
DLM02.2: Absolute retention time for 13C12-1,2,3,4-TCDD > 25 minutes on a DB-5 column or 13C12-1,2,3,4-TCDD > 15 minutes on a DB-225 column? ICAL CS3 Absolute RT = 15:18	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS:

CPSM 1 valley = 17% ; CPSM 2 valley = 17%

* Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B/DLM02.2: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

** **DLM02.2 CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2

ST1214 :10DXN503 CS11214 KSS ST1214A :10DXN504 CS21214A ╗ ST1214B :10DXN505 CS31414B ╗
ST1214C :10DXN506 CS41214C ╗ ST1214D :10DXN507 CS51214D ╗

				14DE10B5D214DE10B5D214DE10B5D214DE10B5D214DE10B5D2				
				S3	S4	S5	S6	S7
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.023	0.106	5.26 %	1.92	2.07	2.18	2.00	1.94
2,3,7,8-TCDF	1.012	0.027	2.71 %	1.04	1.03	0.98	1.01	1.00
13C-2,3,7,8-TCDD	0.985	0.061	6.17 %	0.99	1.01	1.05	0.99	0.89
2,3,7,8-TCDD	1.562	0.050	3.20 %	1.59	1.61	1.54	1.59	1.48
37Cl-2,3,7,8-TCDD	1.774	0.040	2.28 %	1.76	1.84	1.76	1.79	1.73

Run #1 Filename 14DE10B5D2 S: 3 I: 1
Acquired: 14-DEC-10 14:15:32 Processed: 15-DEC-10 08:46:35
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214 :10DXN503 CS11214 KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	198210300	0.80	y	15:19	-	100.00	n
13C-2,3,7,8-TCDF	380145000	0.79	y	16:32	1.918	100.00	n
2,3,7,8-TCDF	1983432	0.71	y	16:33	1.044	0.50	n
13C-2,3,7,8-TCDD	196387400	0.78	y	15:00	0.991	100.00	n
2,3,7,8-TCDD	1557338	0.81	y	15:01	1.586	0.50	n
37Cl-2,3,7,8-TCDD	1725766	1.00	y	15:01	1.758	0.50	n

Run #2 Filename 14DE10B5D2 S: 4 I: 1
Acquired: 14-DEC-10 14:51:46 Processed: 15-DEC-10 08:46:35
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214A :10DXN504 CS21214A KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	187943700	0.80	y	15:19	-	100.00	n
13C-2,3,7,8-TCDF	389377000	0.80	y	16:32	2.072	100.00	n
2,3,7,8-TCDF	8053700	0.72	y	16:33	1.034	2.00	n
13C-2,3,7,8-TCDD	189250100	0.79	y	15:00	1.007	100.00	n
2,3,7,8-TCDD	6102500	0.83	y	15:01	1.612	2.00	n
37Cl-2,3,7,8-TCDD	6946640	1.00	y	15:01	1.835	2.00	n

Run #3 Filename 14DE10B5D2 S: 5 I: 1
Acquired: 14-DEC-10 15:28:06 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214B :10DXN505 CS31414B KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	177466300	0.83	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	387007000	0.78	y	16:32	2.181	100.00	n
2,3,7,8-TCDF	37792600	0.73	y	16:33	0.977	10.00	n
13C-2,3,7,8-TCDD	186625100	0.81	y	14:59	1.052	100.00	n
2,3,7,8-TCDD	28785200	0.78	y	15:01	1.542	10.00	n
37Cl-2,3,7,8-TCDD	32922600	1.00	y	15:01	1.764	10.00	n

Run #4 Filename 14DE10B5D2 S: 6 I: 1
Acquired: 14-DEC-10 16:04:28 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214C :10DXN506 CS41214C KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	182473800	0.78	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	364998000	0.79	y	16:32	2.000	100.00	n
2,3,7,8-TCDF	147314700	0.71	y	16:32	1.009	40.00	n
13C-2,3,7,8-TCDD	180660100	0.80	y	15:00	0.990	100.00	n
2,3,7,8-TCDD	114557500	0.78	y	15:00	1.585	40.00	n
37Cl-2,3,7,8-TCDD	129089600	1.00	y	15:00	1.786	40.00	n

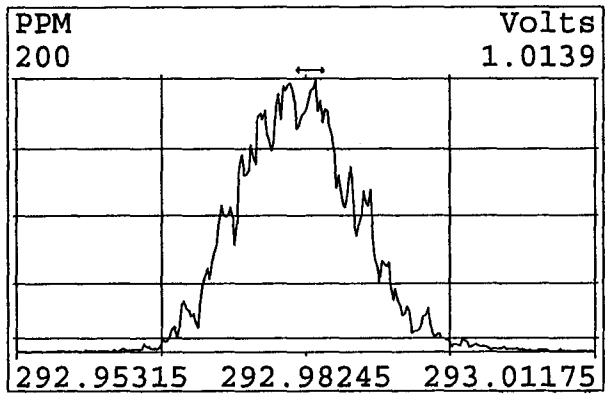
Run #5 Filename 14DE10B5D2 S: 7 I: 1
Acquired: 14-DEC-10 16:40:49 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214D :10DXN507 CS51214D KSS

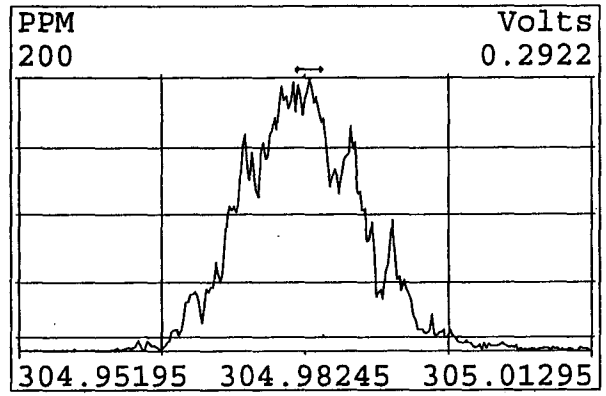
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	202676800	0.80	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	393685000	0.80	y	16:31	1.942	100.00	n
2,3,7,8-TCDF	784363000	0.73	y	16:32	0.996	200.00	n
13C-2,3,7,8-TCDD	179577700	0.79	y	14:59	0.886	100.00	n
2,3,7,8-TCDD	533290000	0.79	y	15:00	1.485	200.00	n
37Cl-2,3,7,8-TCDD	620084000	1.00	y	15:00	1.727	200.00	n

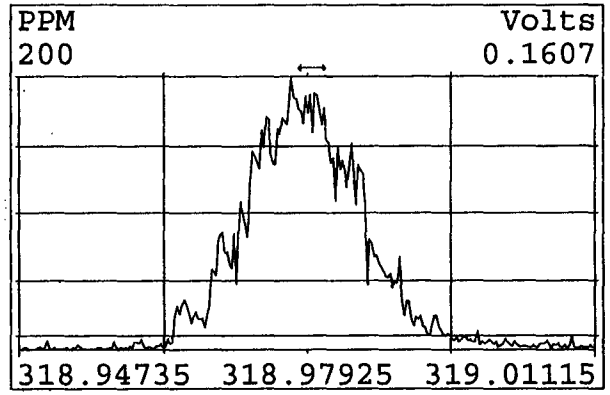
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14DE10B5D2	1	CP1214	DB-225 3732-11 CPS1214 KSS				1.0000	
14DE10B5D2	2	SB1214	Solvent Blank C-14 SB1214 KSS				1.0000	
14DE10B5D2	3	ST1214	10DXN503 CS11214 KSS				1.0000	
14DE10B5D2	4	ST1214A	10DXN504 CS21214A KSS				1.0000	
14DE10B5D2	5	ST1214B	10DXN505 CS31414B KSS				1.0000	
14DE10B5D2	6	ST1214C	10DXN506 CS41214C KSS				1.0000	
14DE10B5D2	7	ST1214D	10DXN507 CS51214D KSS				1.0000	
14DE10B5D2	8	SB1214A	Solvent Blank C-14 SB1214A KSS				1.0000	
14DE10B5D2	9	ST1214E	10DXN340 Second Source KSS				1.0000	
14DE10B5D2	10	CP1214A	DB-225 3732-11 CPS1214A KSS				1.0000	
14DE10B5D2	11						1.0000	
14DE10B5D2	12						1.0000	
14DE10B5D2	13						1.0000	
14DE10B5D2	14						1.0000	
14DE10B5D2	15						1.0000	
14DE10B5D2	16						1.0000	
14DE10B5D2	17		KSS 12-14-10				1.0000	
14DE10B5D2	18						1.0000	

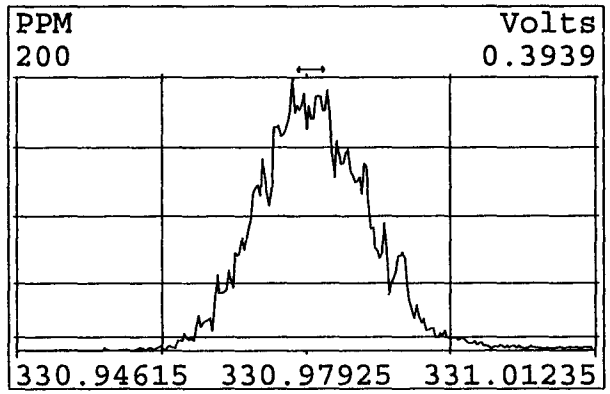
log file Vd
AS
12-15-10

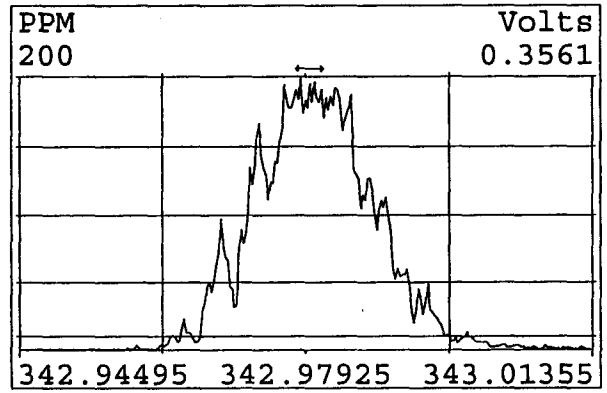
Peak Locate Examination:14-DEC-2010:13:01 File:14DE10B5D2
Experiment:DB225RES Function:1 Reference:PFK

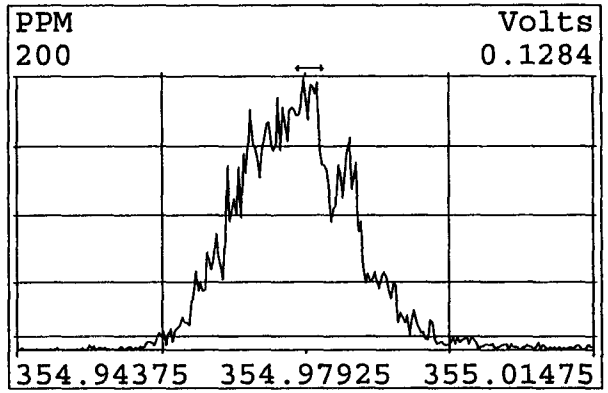


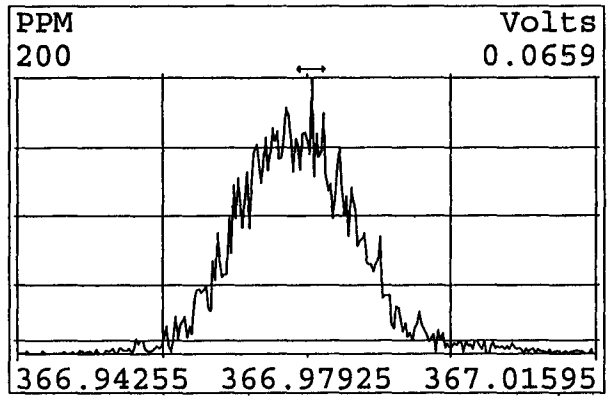


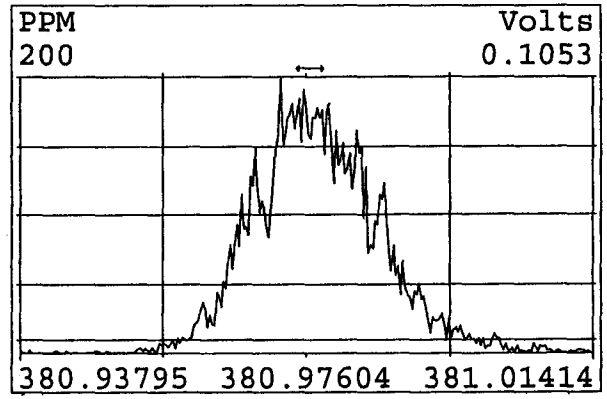




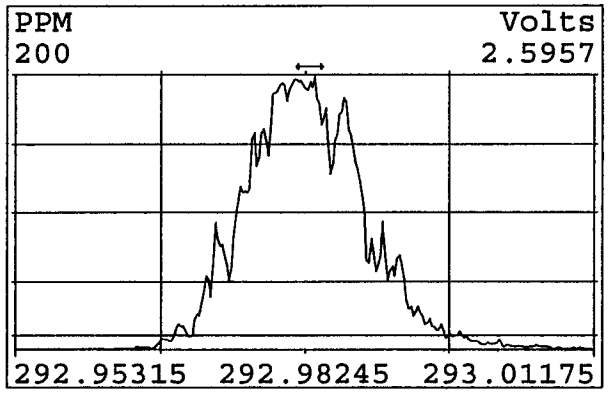


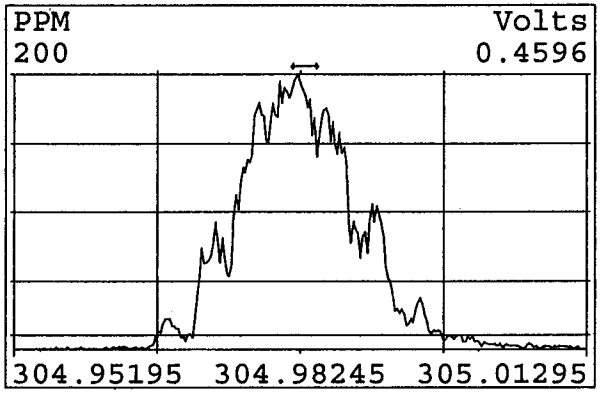


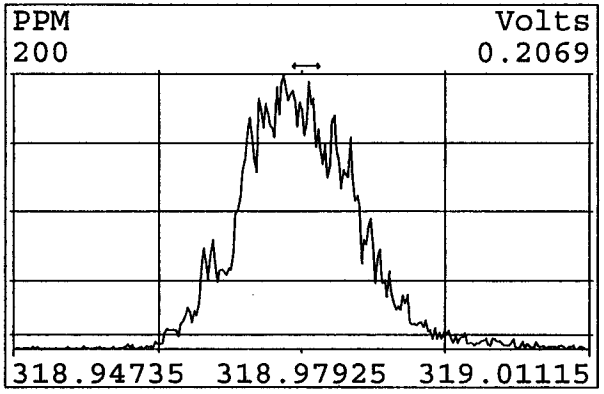


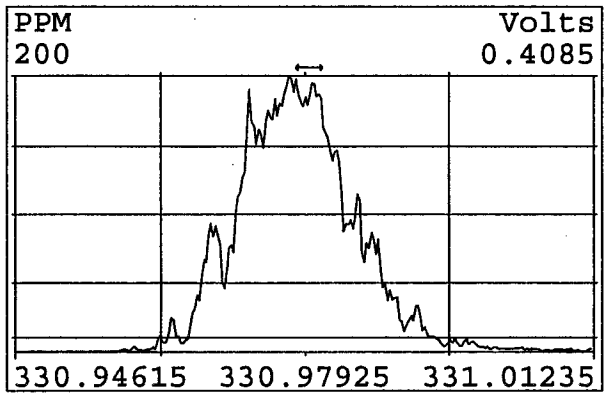


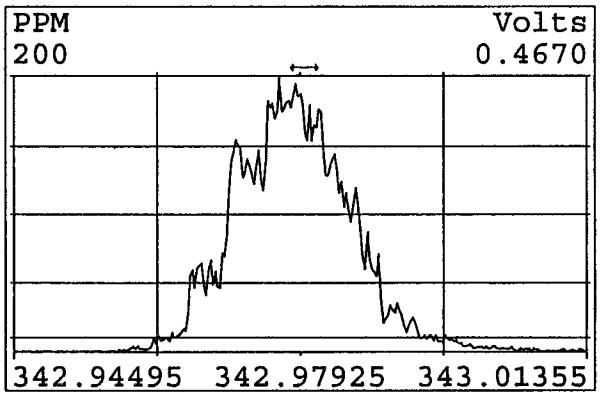
Peak Locate Examination:14-DEC-2010:19:44 File:RESCHK14DE10B5D2
Experiment:DB225RES Function:1 Reference:PFK

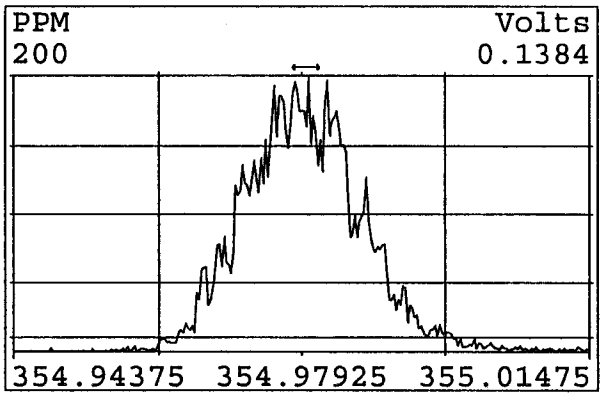


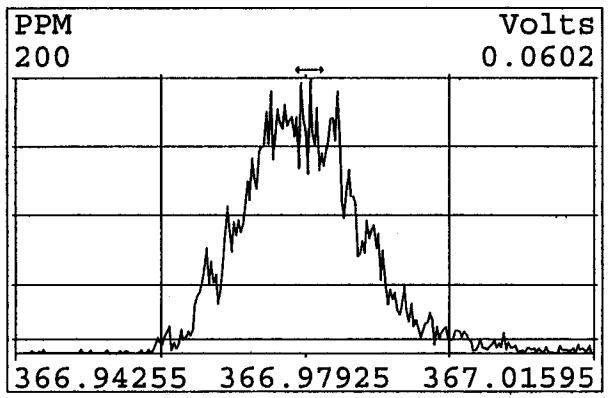


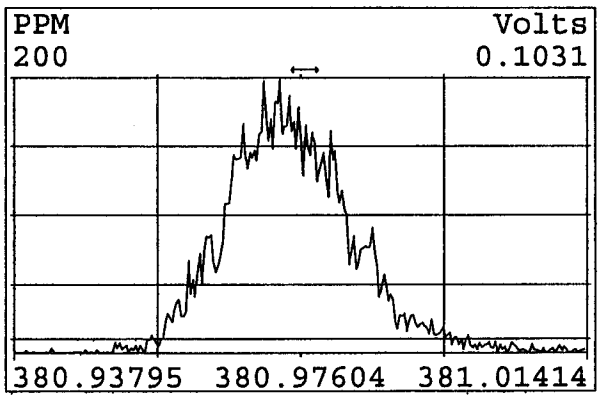




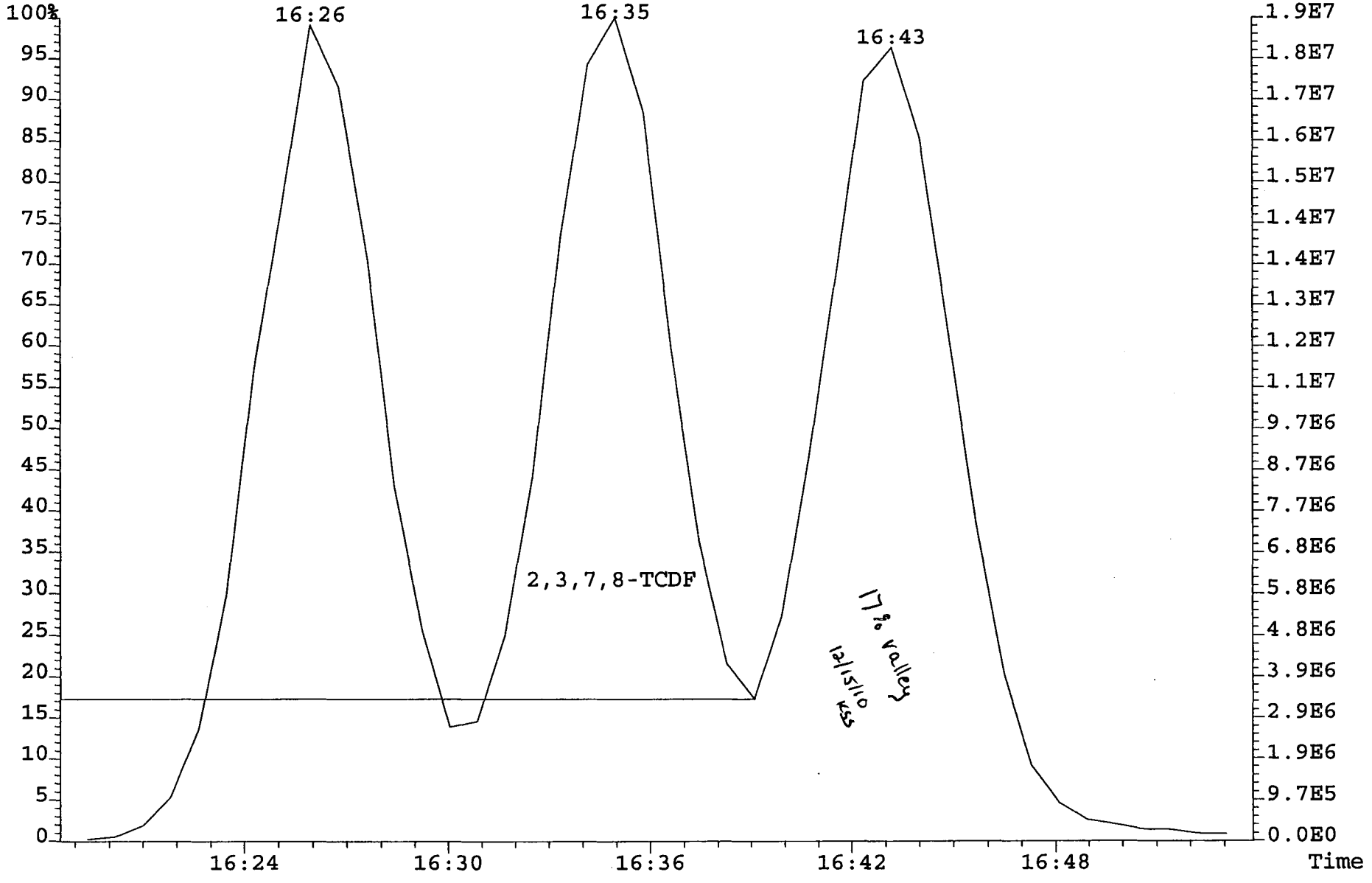


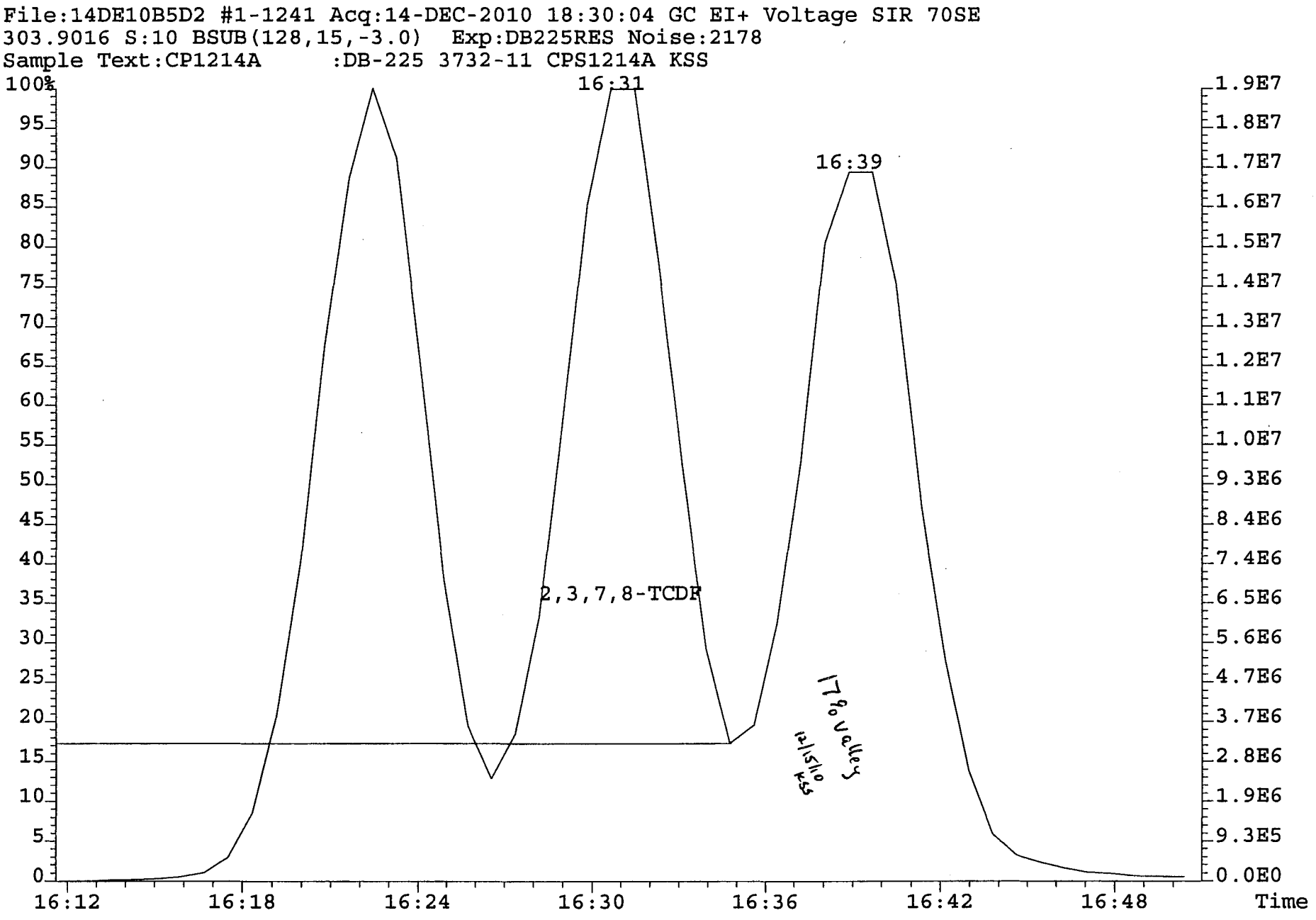






File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
303.9016 BSUB(128,15,-3.0)



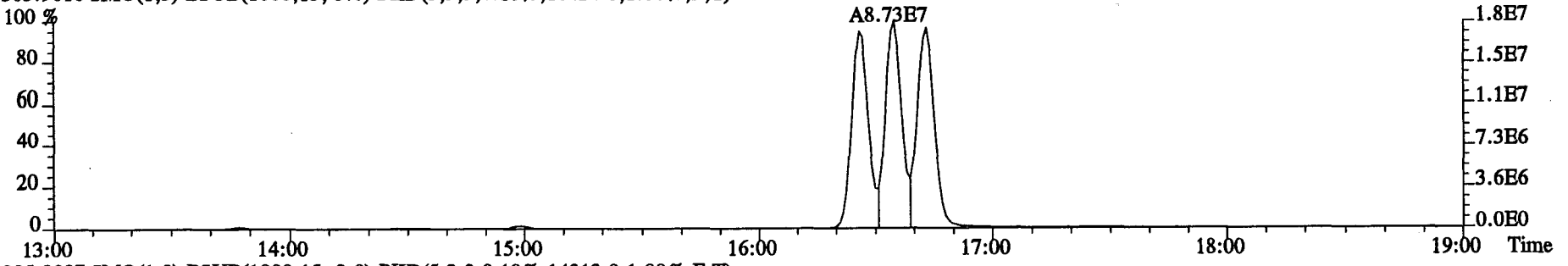

File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
303.9016 S:10 BSUB(128,15,-3.0) Exp:DB225RES Noise:2178
Sample Text:CP1214A :DB-225 3732-11 CPS1214A KSS
16:31
16:39
2,3,7,8-TCDF
17% Valley
KSS 01/15/11
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1.9E7
1.8E7
1.7E7
1.6E7
1.5E7
1.4E7
1.3E7
1.2E7
1.1E7
1.0E7
9.3E6
8.4E6
7.4E6
6.5E6
5.6E6
4.7E6
3.7E6
2.8E6
1.9E6
9.3E5
0.0E0
16:12
16:18
16:24
16:30
16:36
16:42
16:48
Time

Run text: ST1214E Sample text: ST1214E :10DXN340 Second Source KSS
Run #6 Filename: 14DE10B5D2 S: 9 I: 1 Results: 14DE10B5D2DB225
Acquired: 14-DEC-10 17:53:39 Processed: 14-DEC-10 18:26:25
Run: 14DE10B5D2 Analyte: DB225 Cal: DB2251214105D2
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000 spiked @ 200 pg

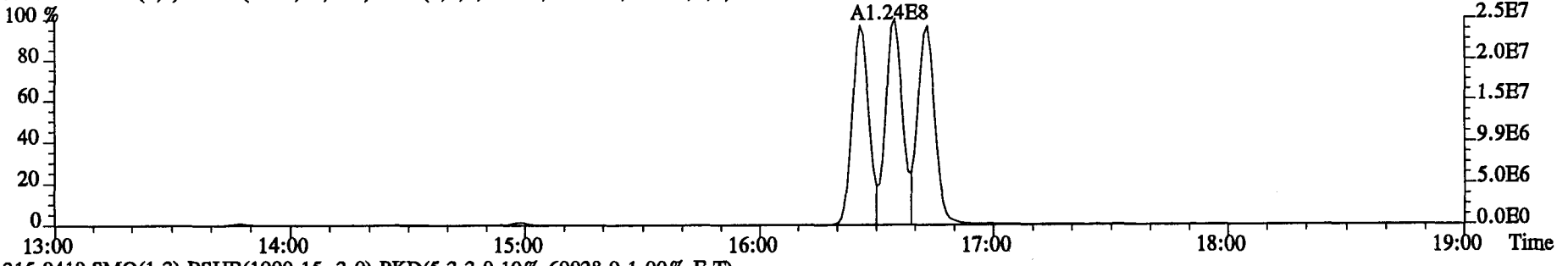
Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	168736500	0.79	y	15:15	-	88.92	-	-	n
13C-2,3,7,8-TCDF	382850000	0.80	y	16:29	2.02	2243.55	10.19	112.2	n
2,3,7,8-TCDF	36609000	0.72	y	16:29	1.01	189.00 (94.5 %R)	1.72	-	n
13C-2,3,7,8-TCDD	166332300	0.81	y	14:57	0.99	2001.34	9.02	100.1	n
2,3,7,8-TCDD	24991900	0.78	y	14:57	1.56	192.37 (96.2 %R)	2.86	-	n
37Cl-2,3,7,8-TCDD	57132800	1.00	y	14:57	1.75	387.28	4.57	96.8	n

12/15/10 KSS

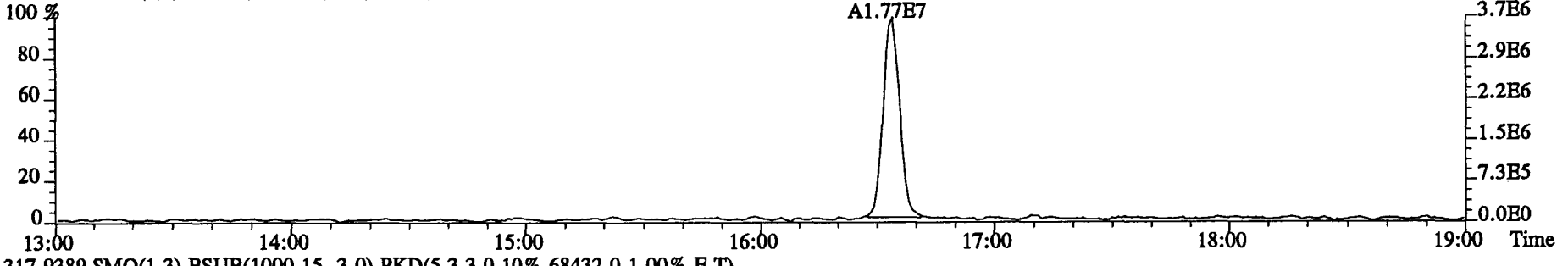
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10424.0,1.00%,F,T)



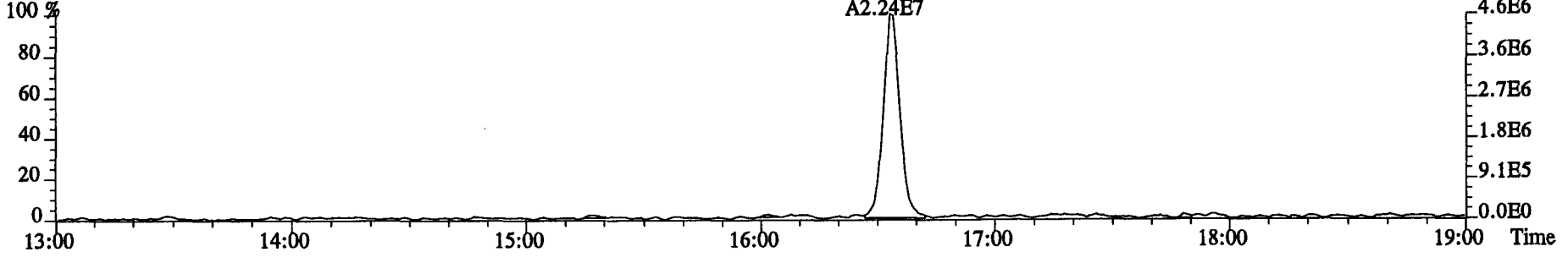
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14312.0,1.00%,F,T)



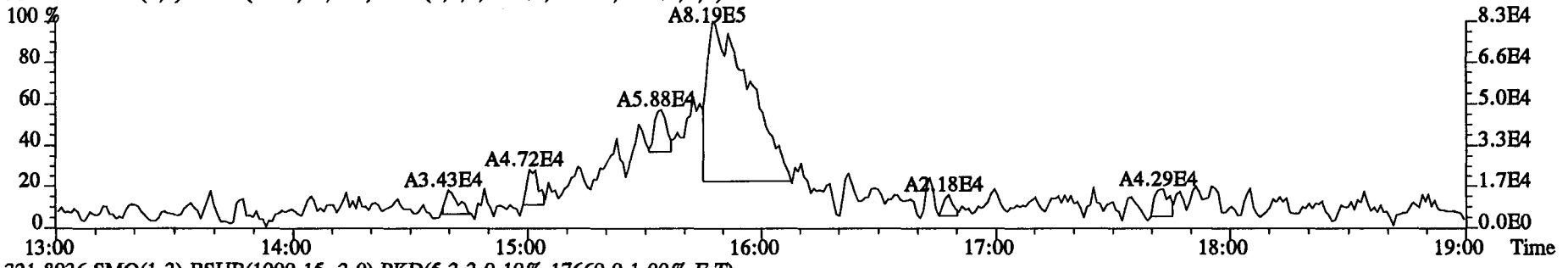
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60928.0,1.00%,F,T)



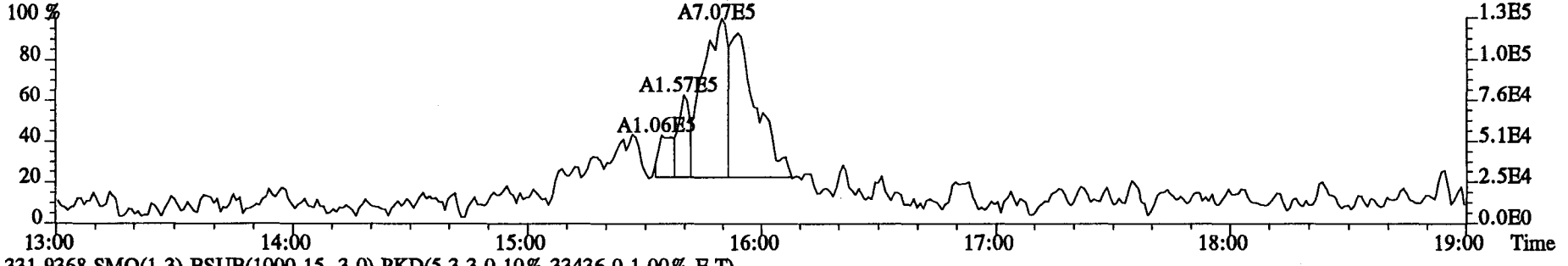
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68432.0,1.00%,F,T)



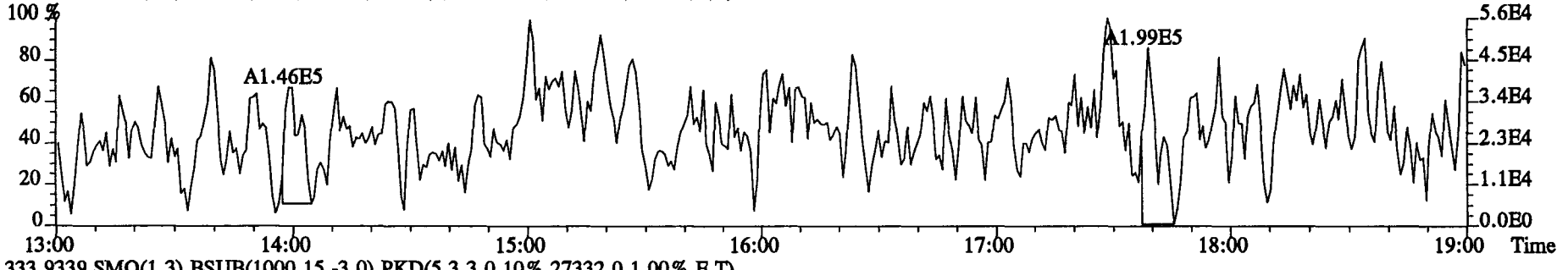
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9724.0,1.00%,F,T)



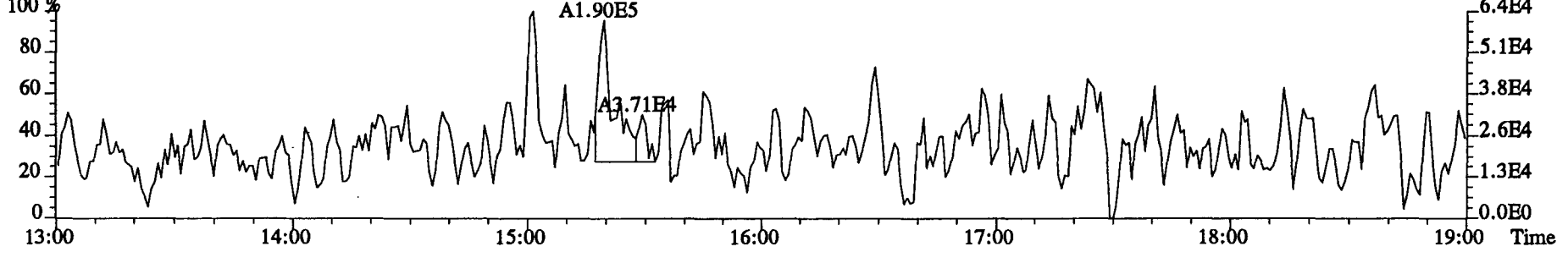
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17660.0,1.00%,F,T)



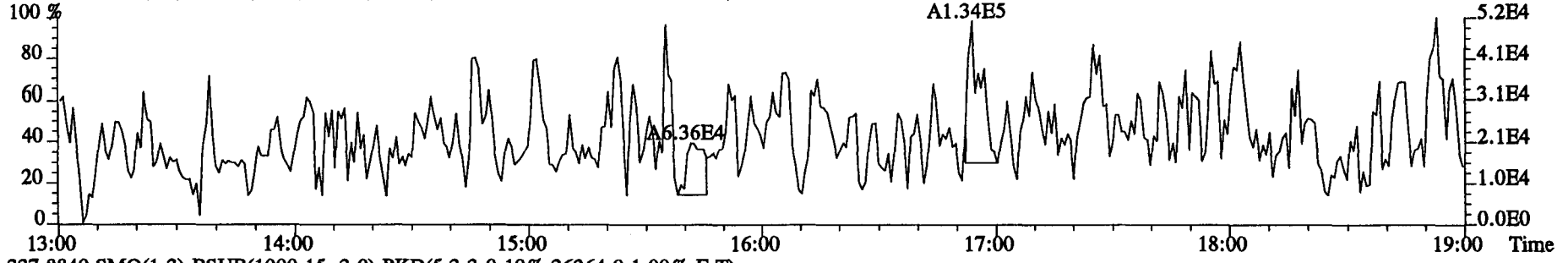
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33436.0,1.00%,F,T)



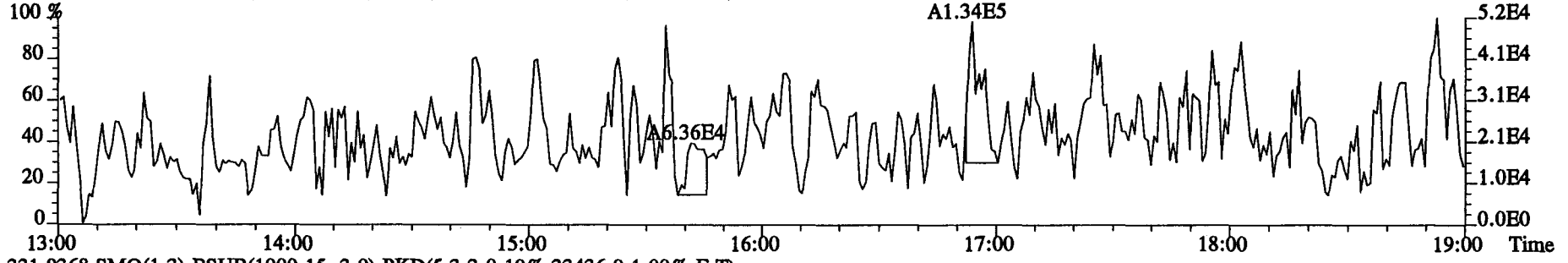
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27332.0,1.00%,F,T)



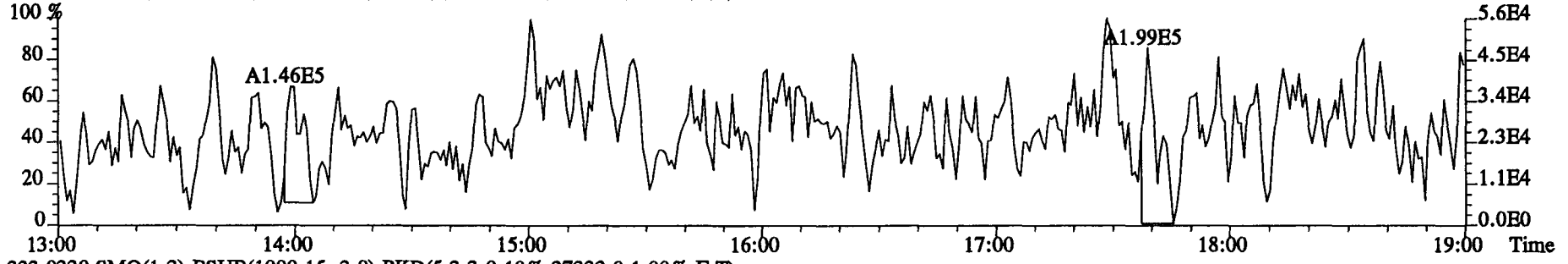
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26264.0,1.00%,F,T)



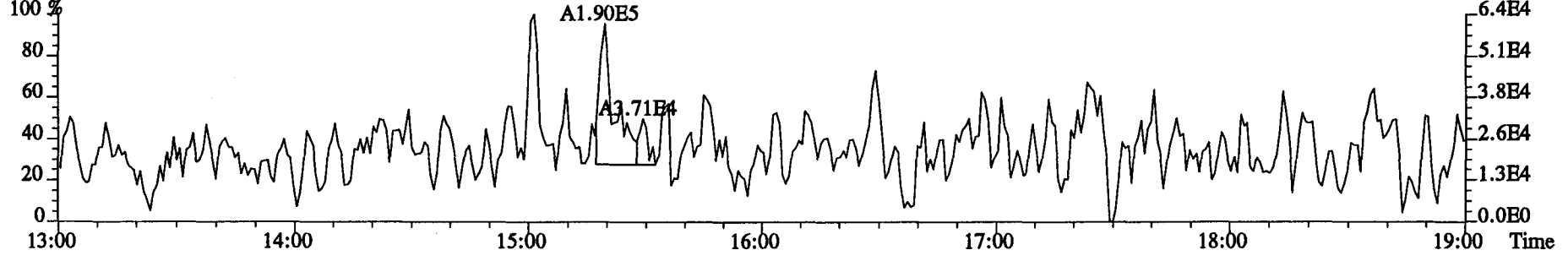
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26264.0,1.00%,F,T)



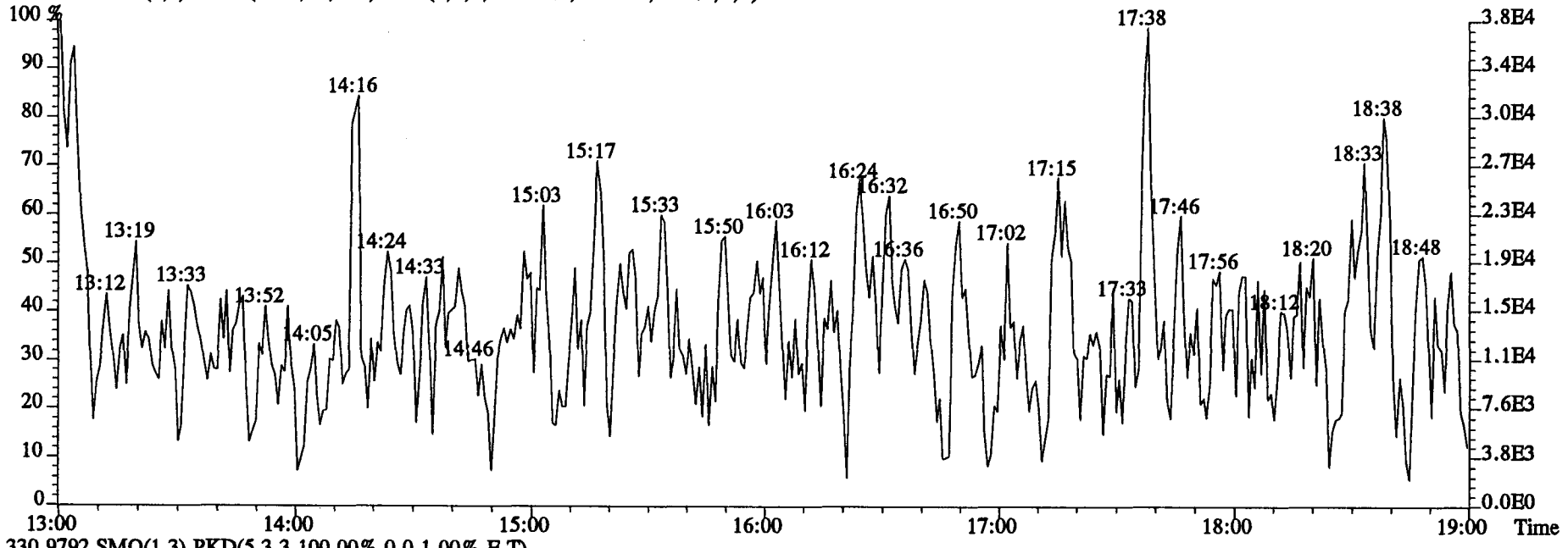
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33436.0,1.00%,F,T)



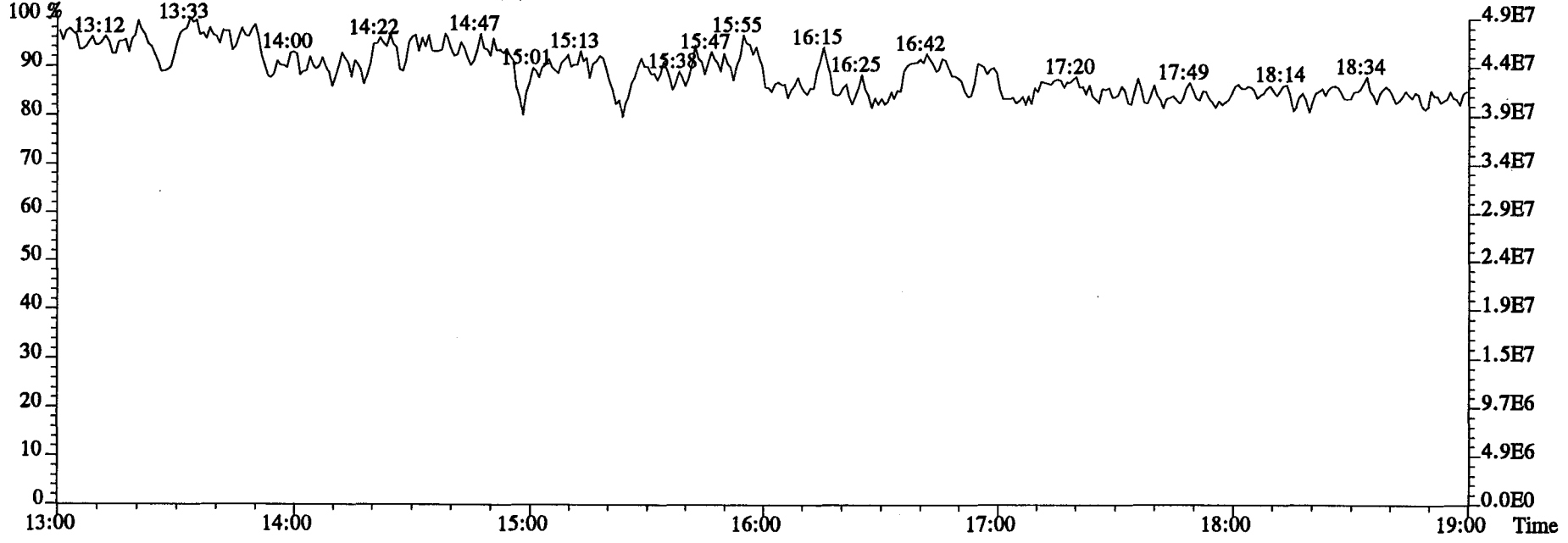
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27332.0,1.00%,F,T)



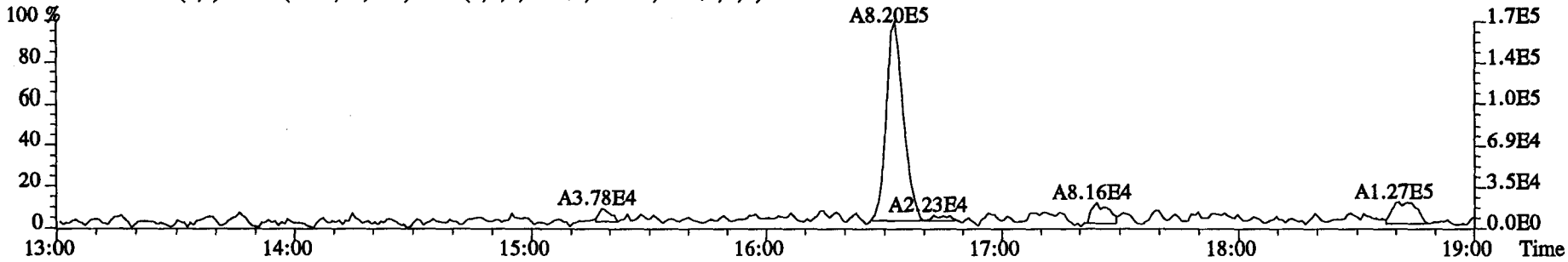
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16916.0,1.00%,F,T)



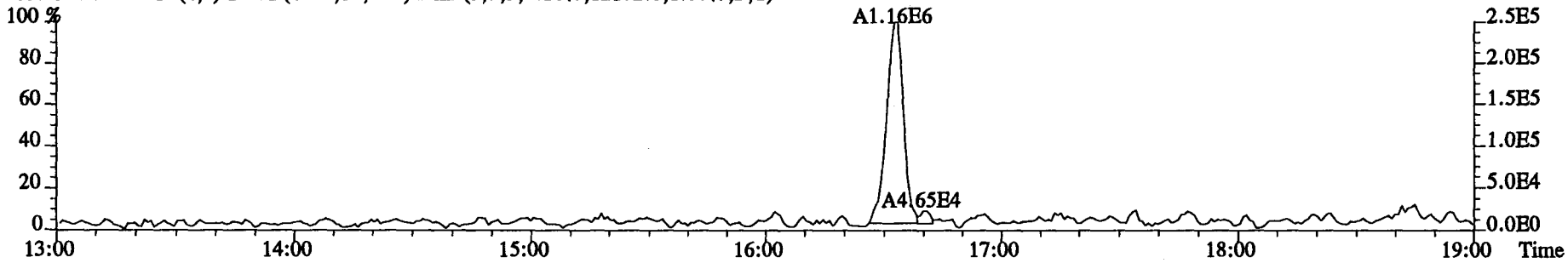
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



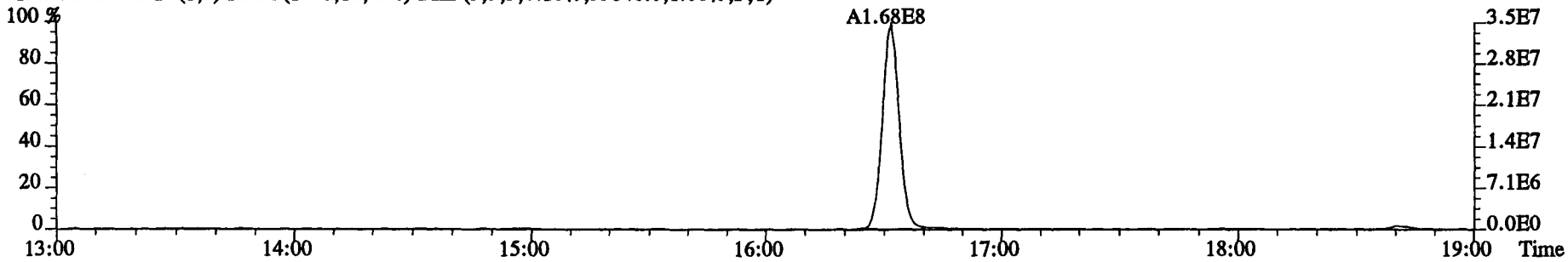
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8552.0,1.00%,F,T)



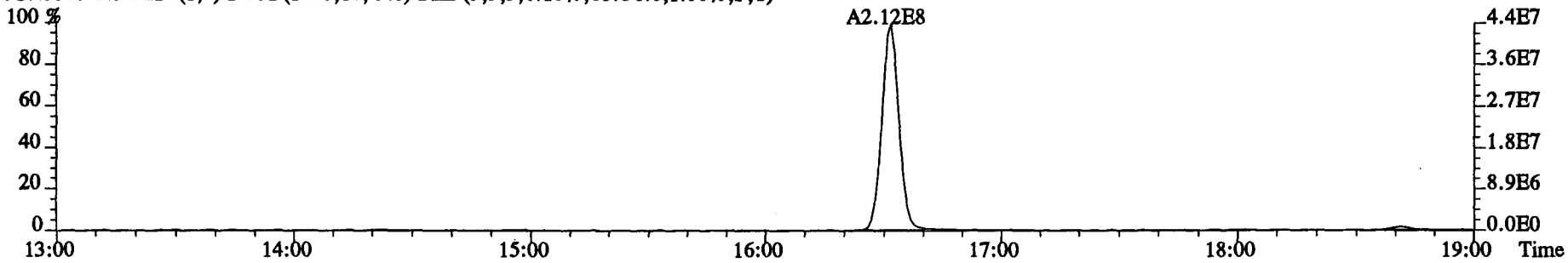
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12172.0,1.00%,F,T)



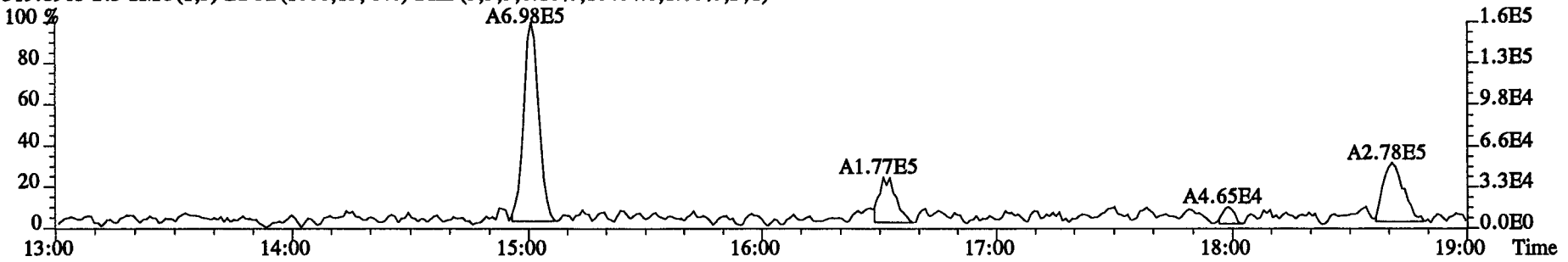
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,59840.0,1.00%,F,T)



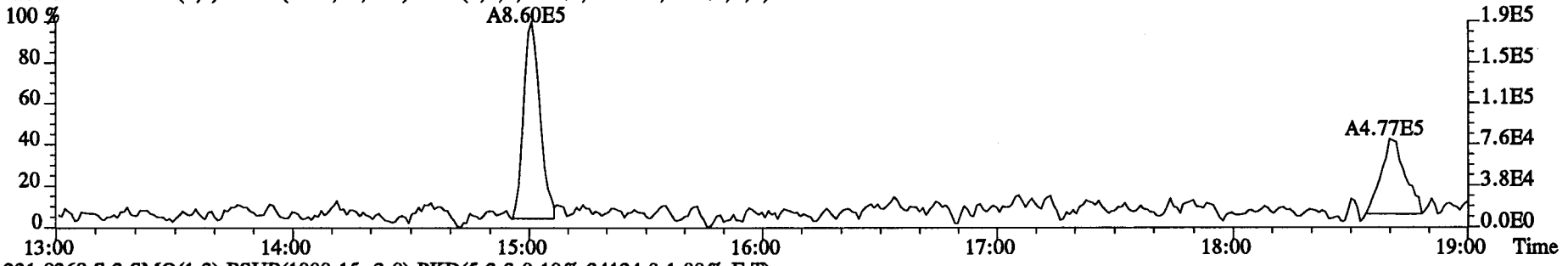
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68736.0,1.00%,F,T)



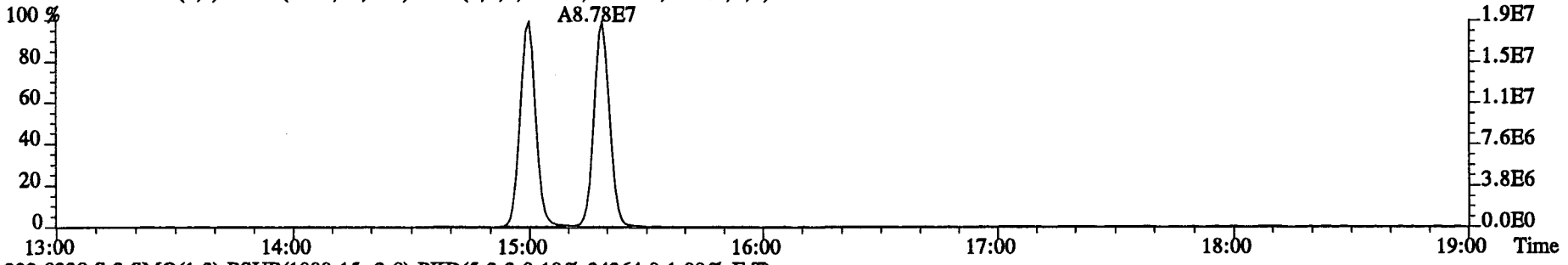
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10404.0,1.00%,F,T)



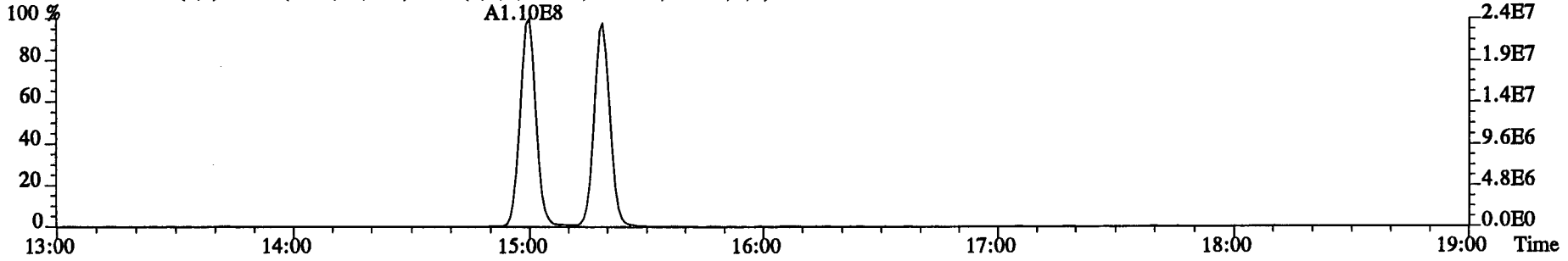
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17424.0,1.00%,F,T)



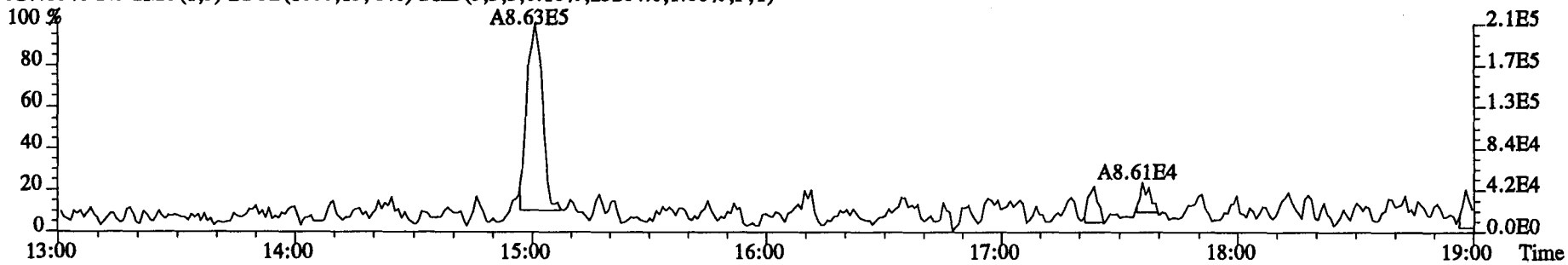
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34124.0,1.00%,F,T)



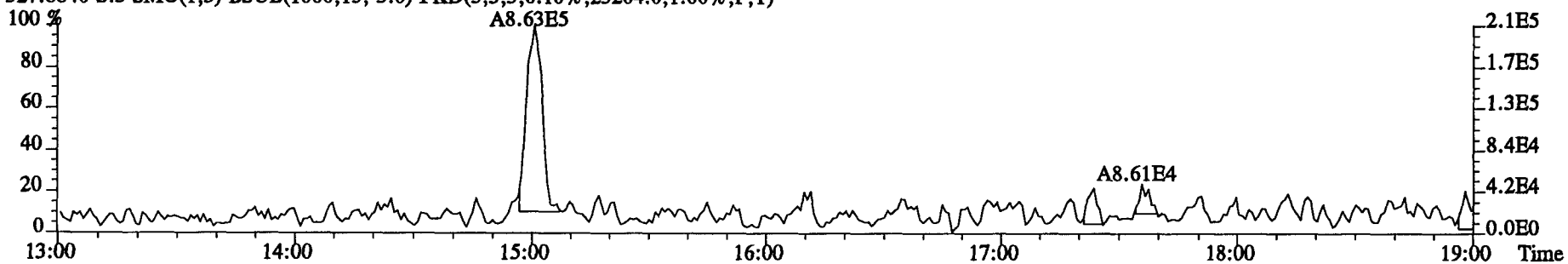
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24364.0,1.00%,F,T)



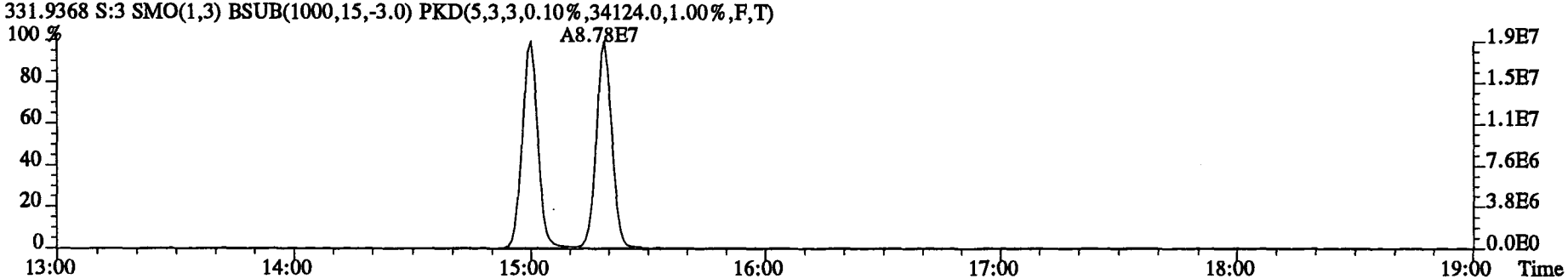
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23204.0,1.00%,F,T)



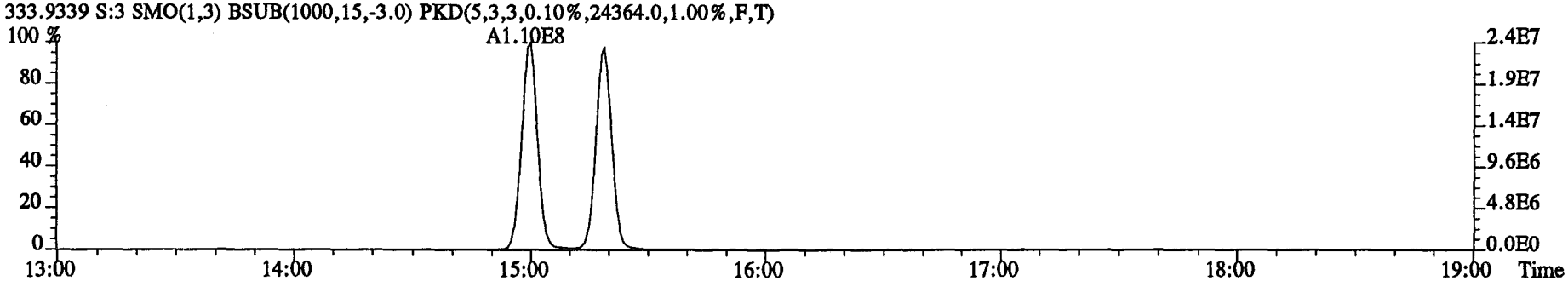
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23204.0,1.00%,F,T)



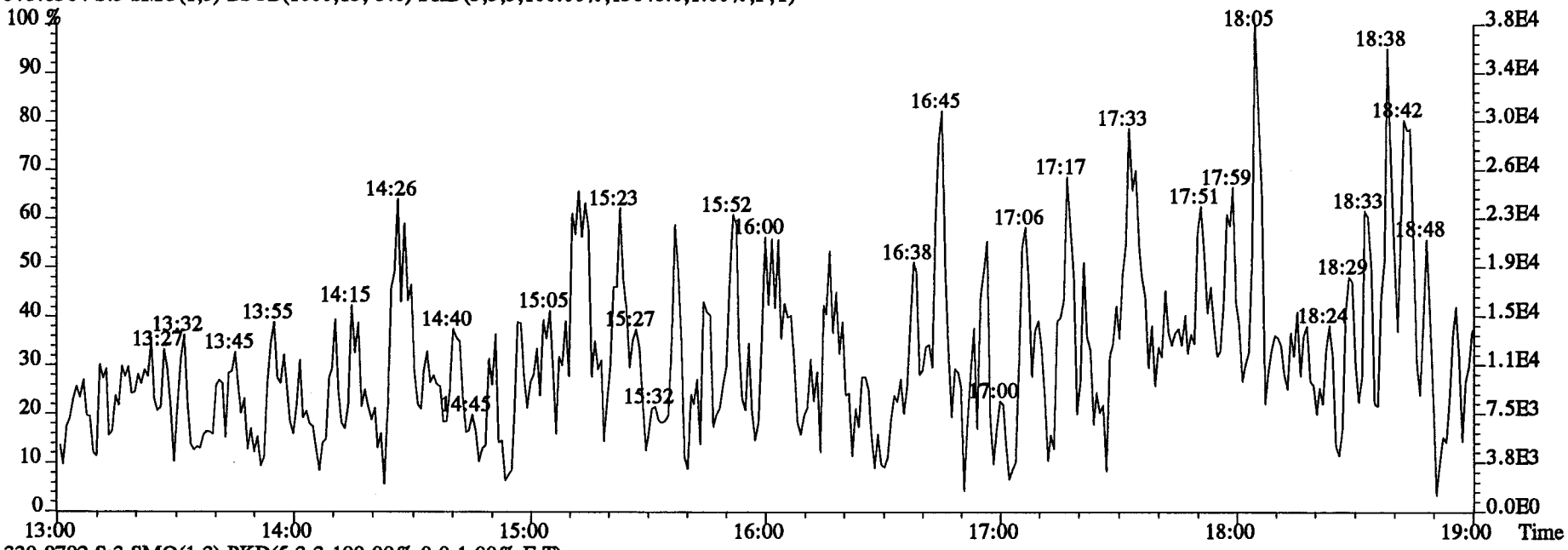
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34124.0,1.00%,F,T)



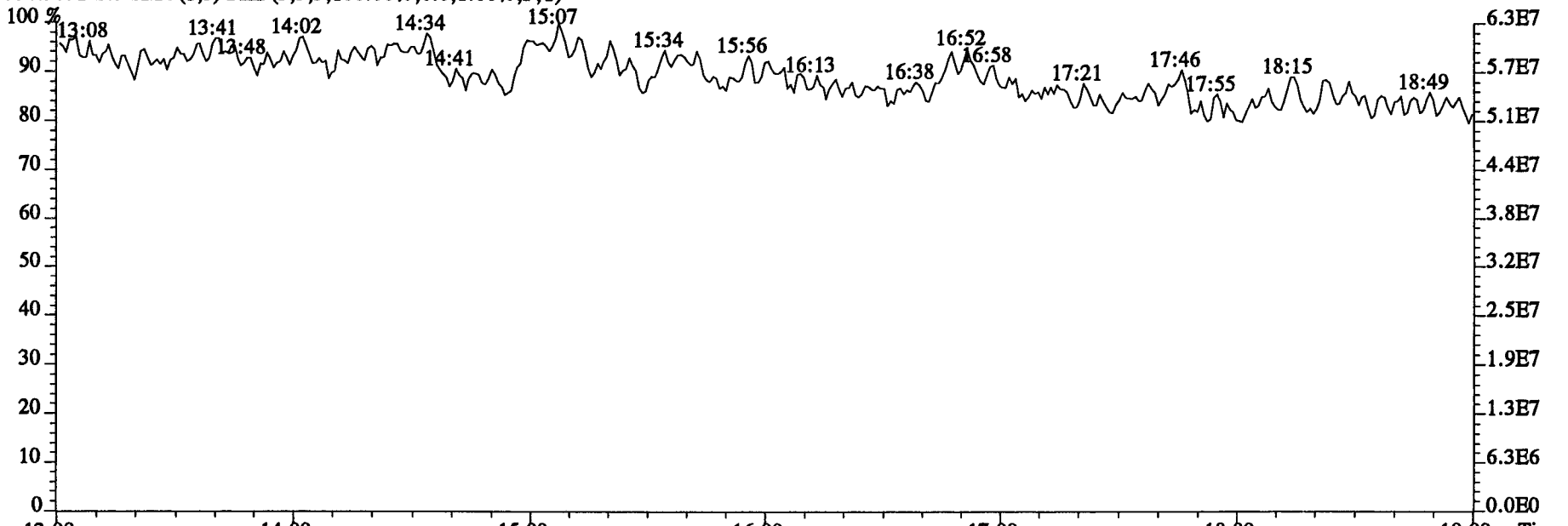
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24364.0,1.00%,F,T)



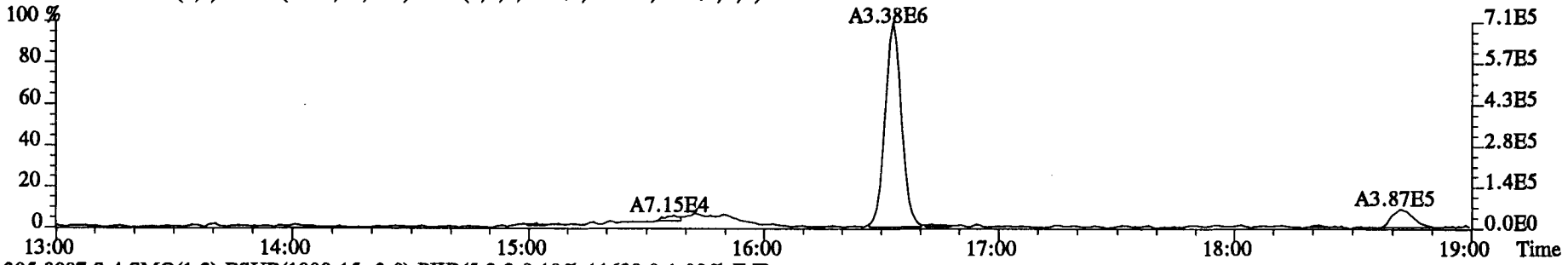
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13648.0,1.00%,F,T)



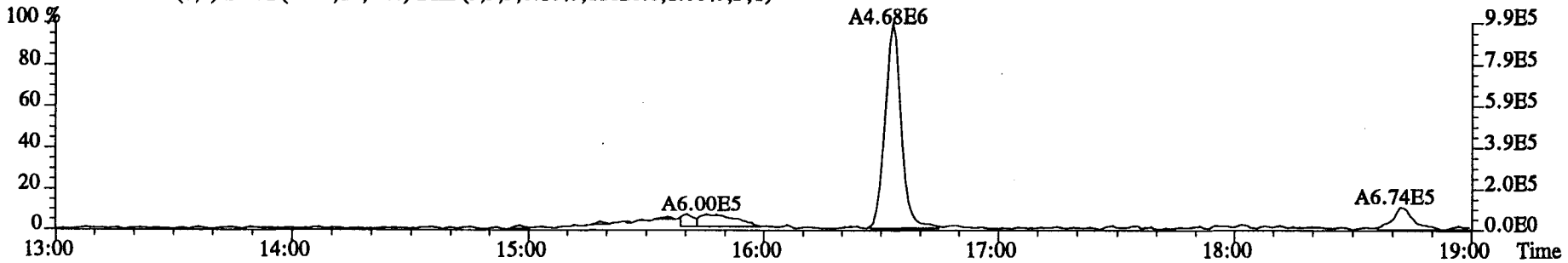
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



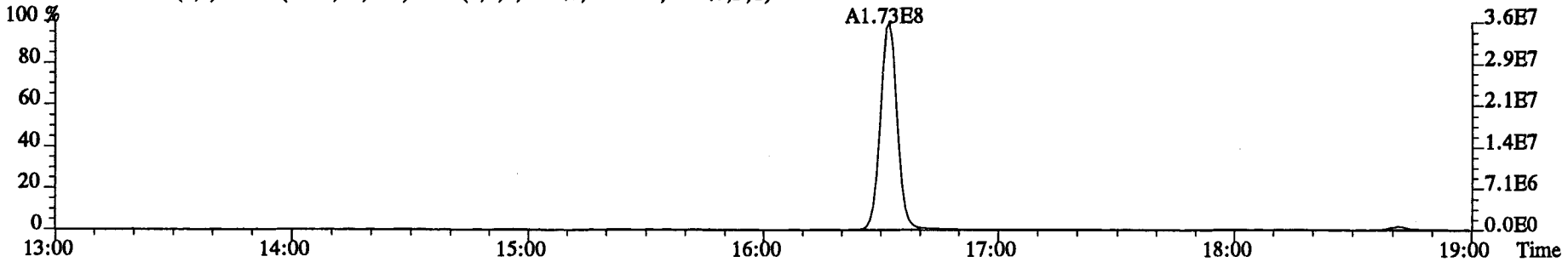
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8348.0,1.00%,F,T)



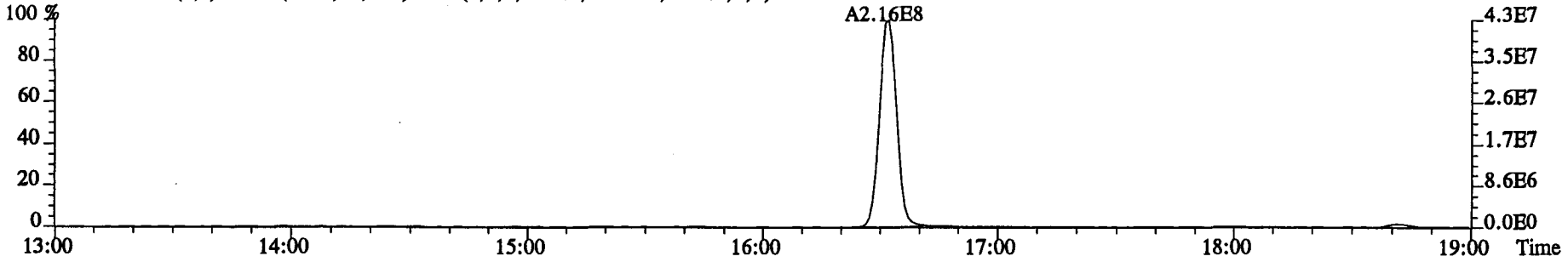
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11628.0,1.00%,F,T)



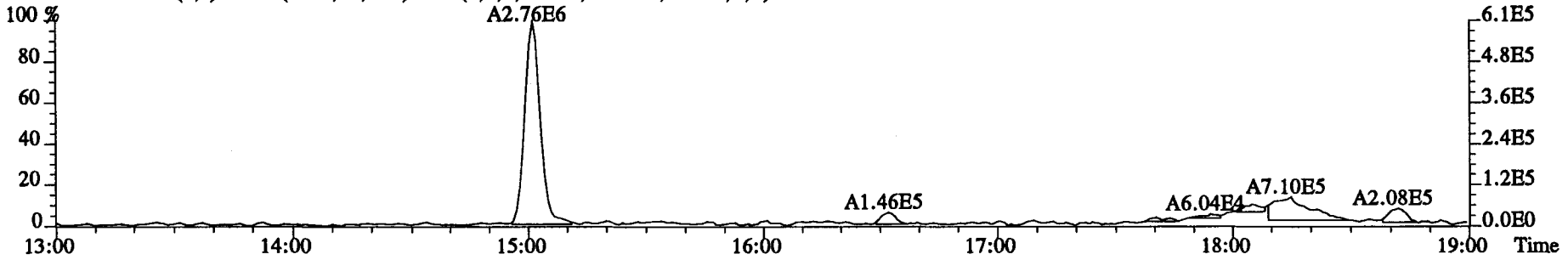
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61788.0,1.00%,F,T)



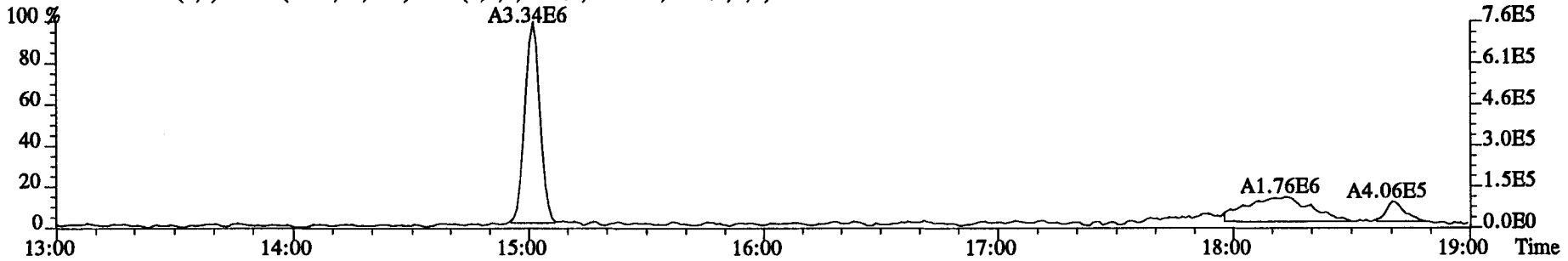
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80068.0,1.00%,F,T)



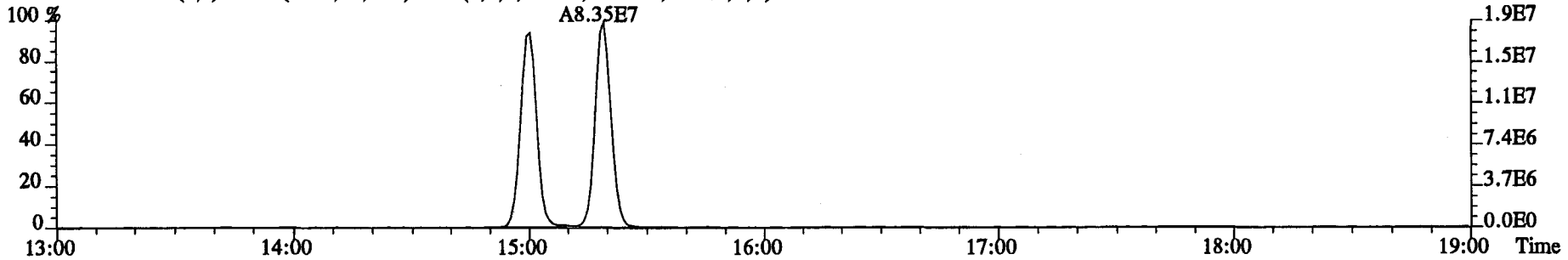
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11084.0,1.00%,F,T)



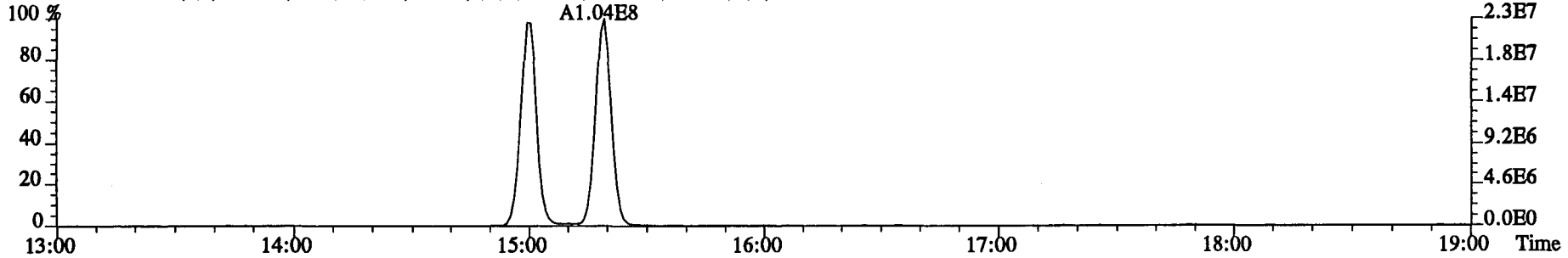
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18784.0,1.00%,F,T)



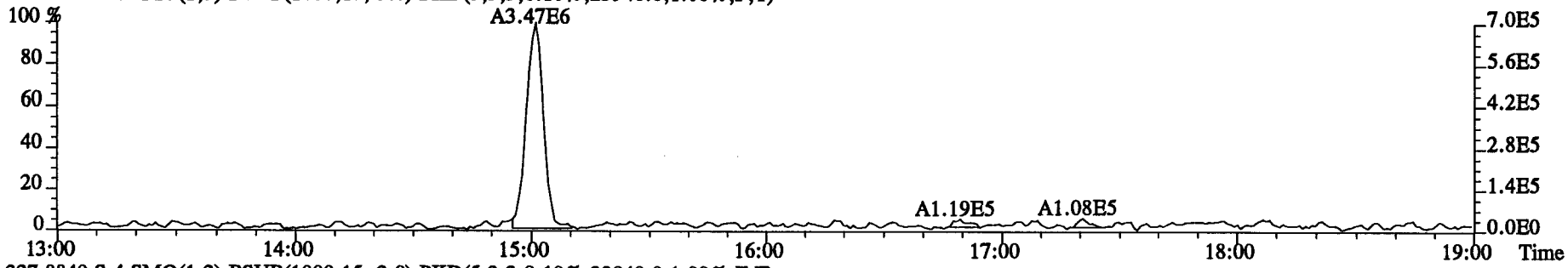
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33768.0,1.00%,F,T)



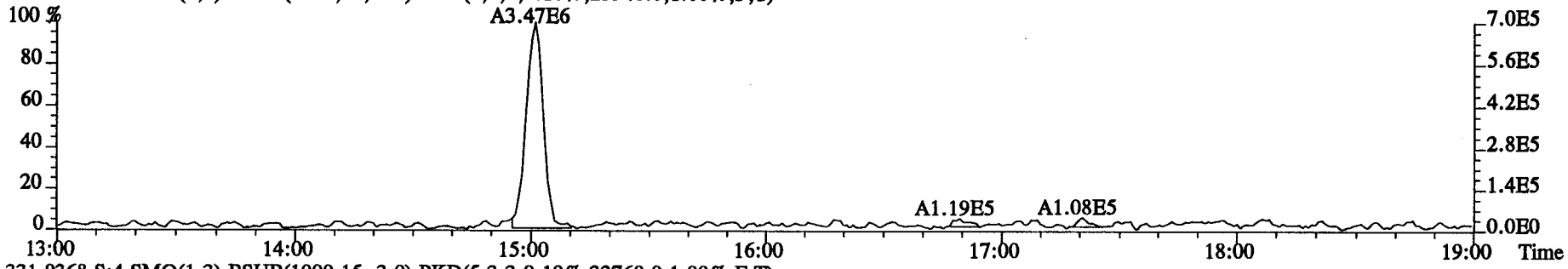
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21656.0,1.00%,F,T)



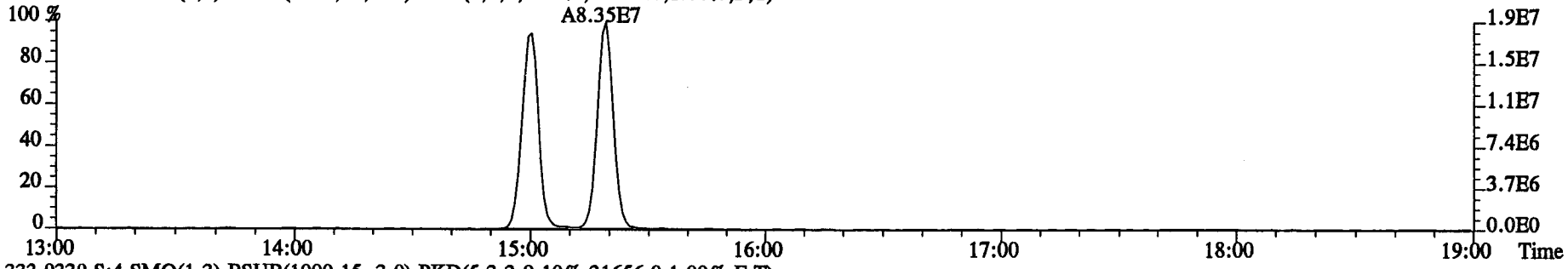
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23940.0,1.00%,F,T)



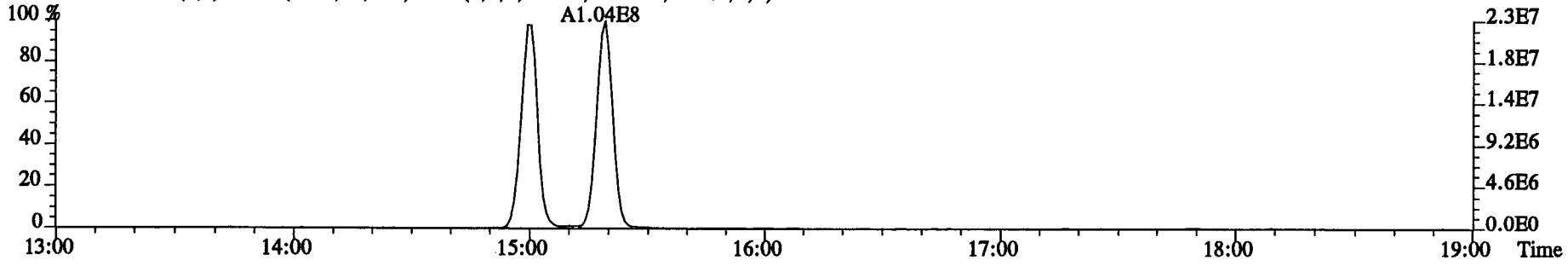
327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23940.0,1.00%,F,T)



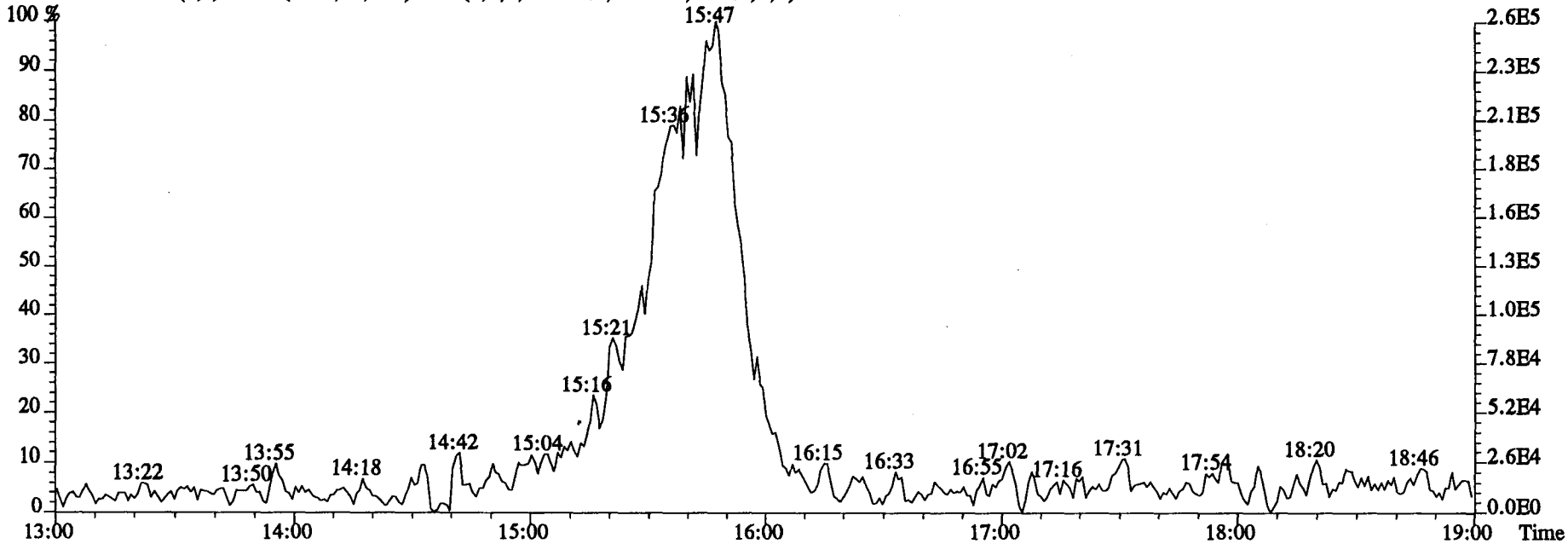
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33768.0,1.00%,F,T)



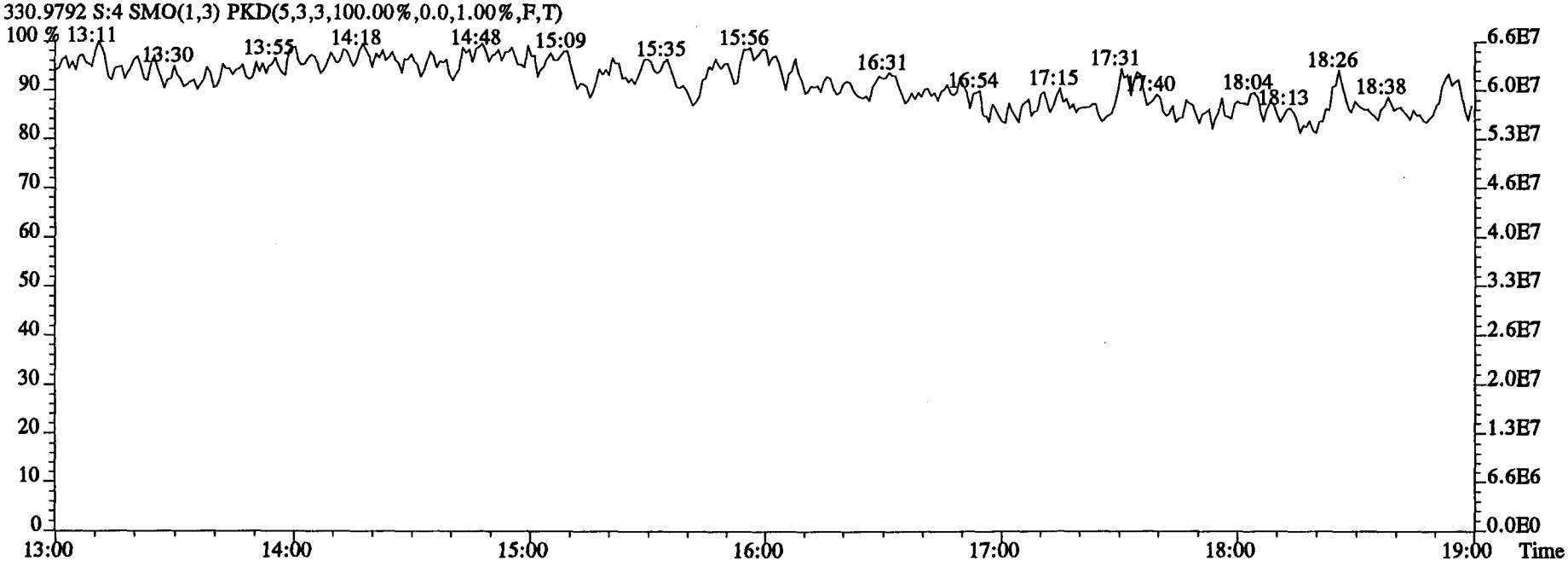
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21656.0,1.00%,F,T)



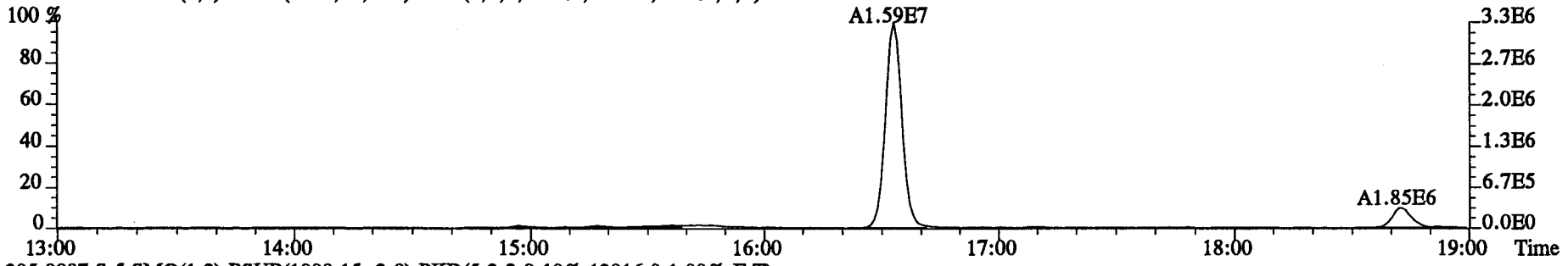
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,14208.0,1.00%,F,T)



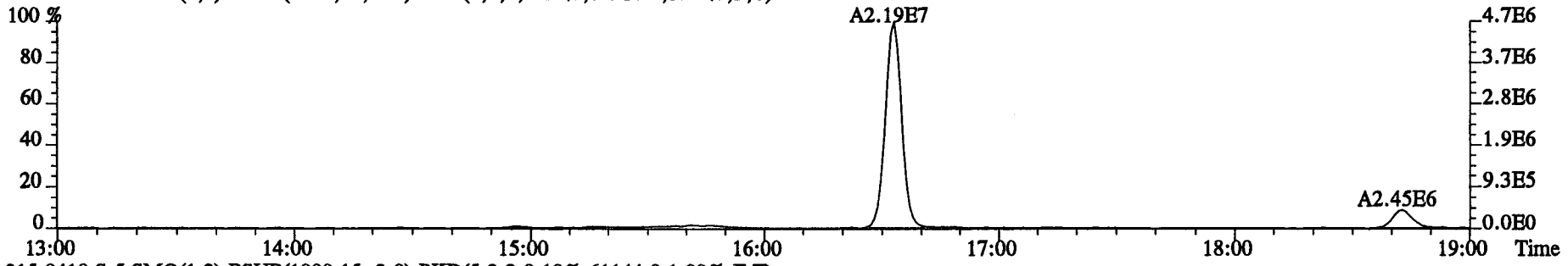
330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



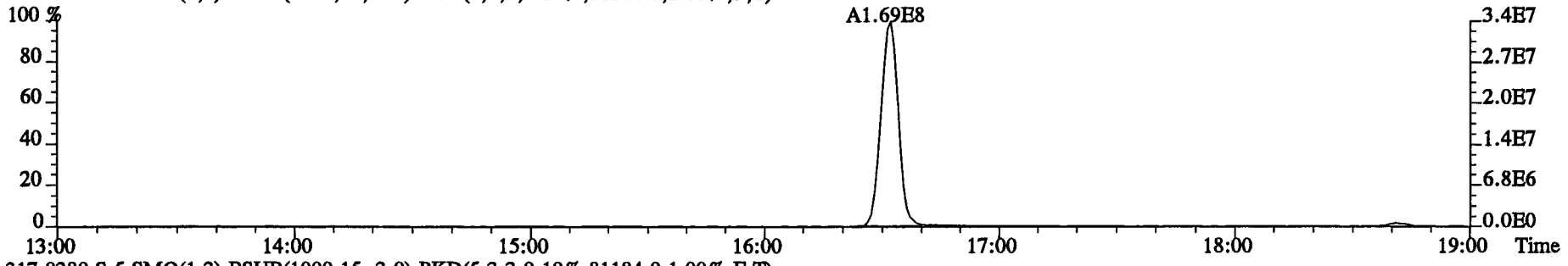
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9832.0,1.00%,F,T)



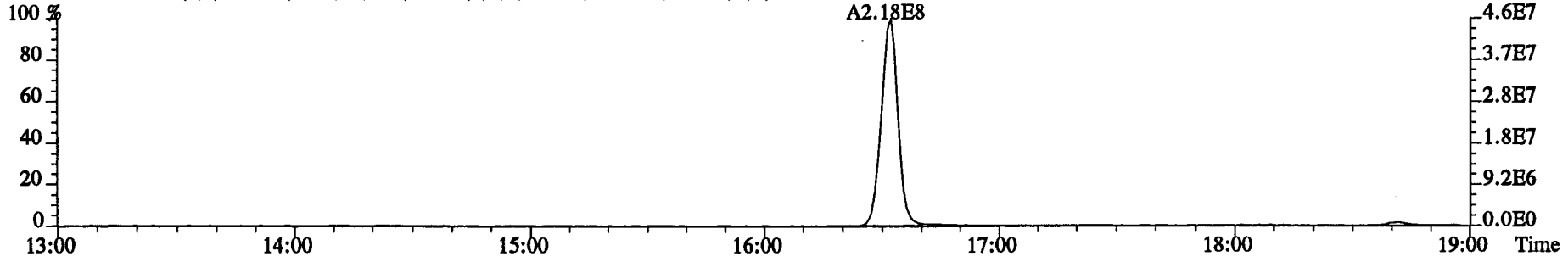
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13916.0,1.00%,F,T)



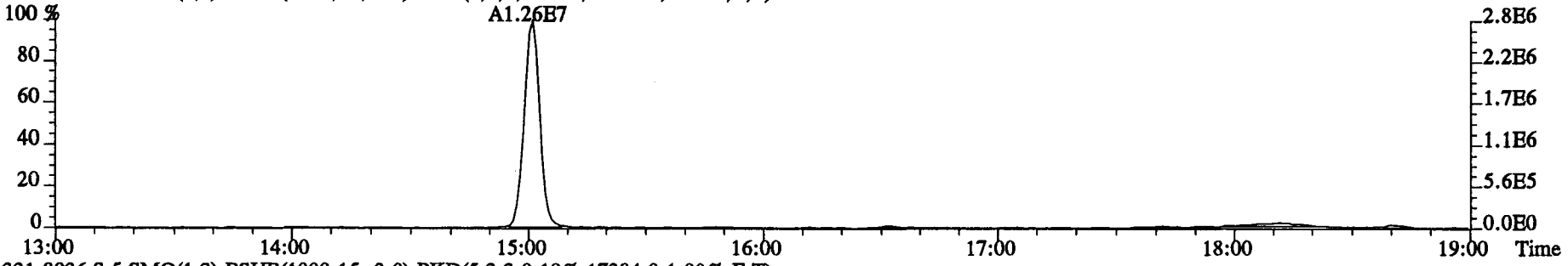
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61144.0,1.00%,F,T)



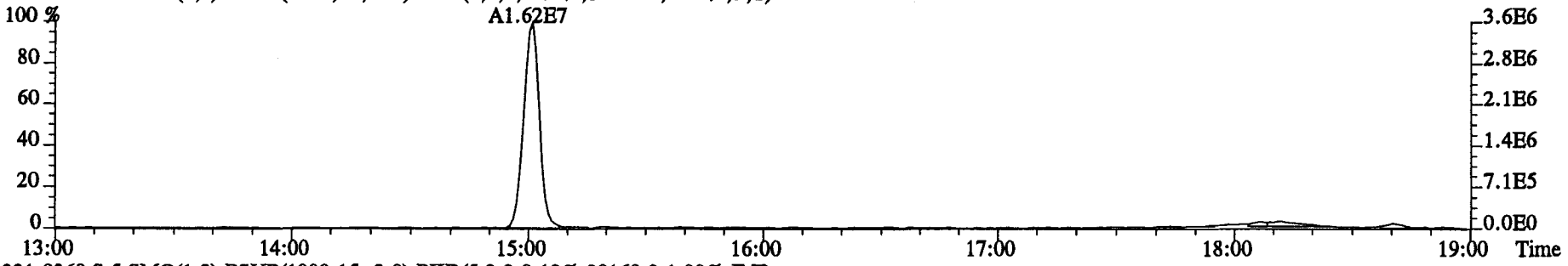
317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,81184.0,1.00%,F,T)



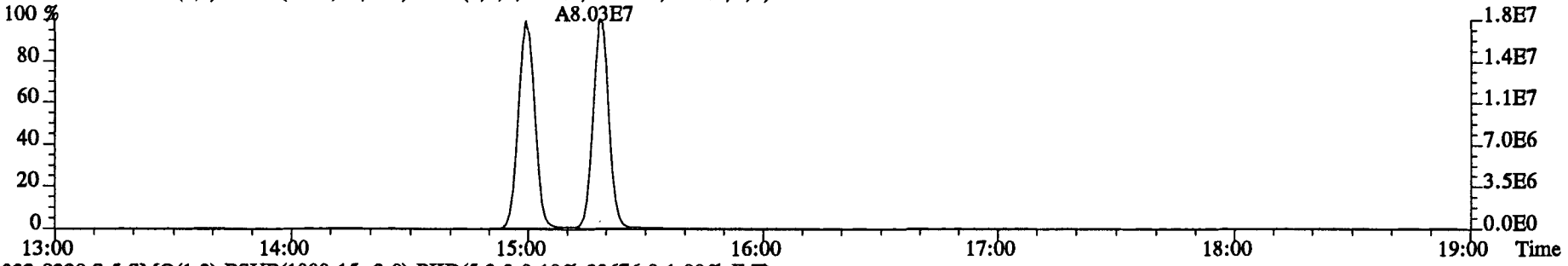
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11124.0,1.00%,F,T)



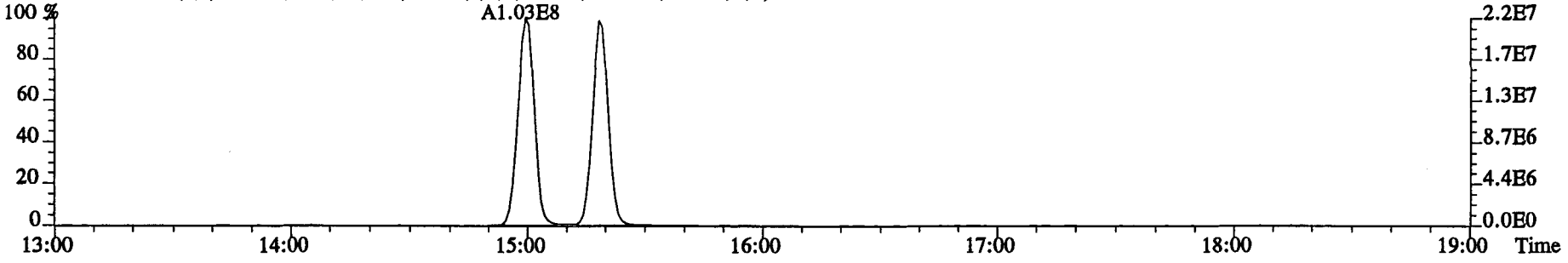
321.8936 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17384.0,1.00%,F,T)



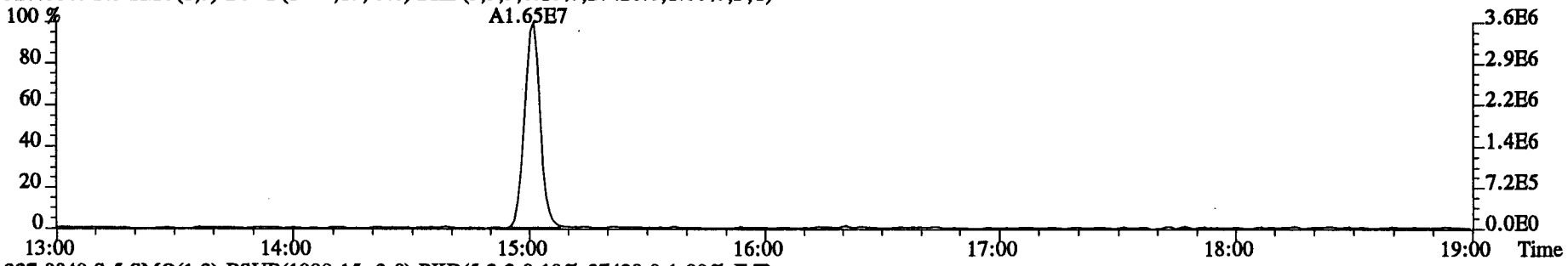
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30168.0,1.00%,F,T)



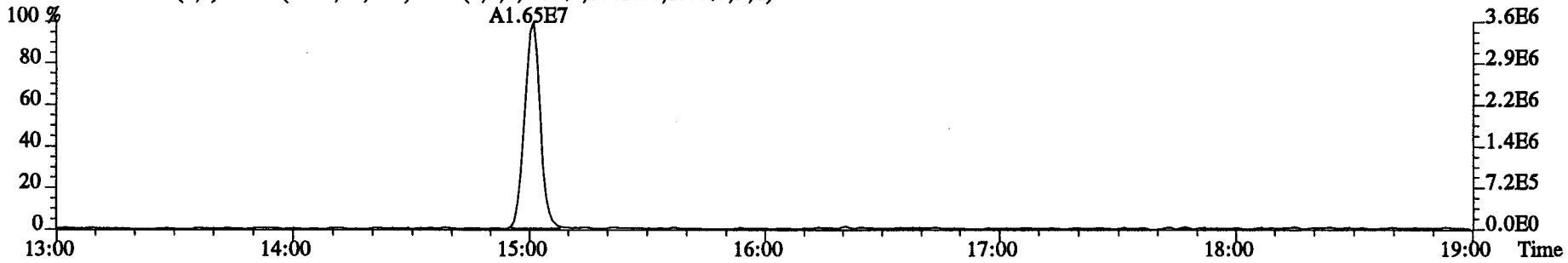
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23676.0,1.00%,F,T)



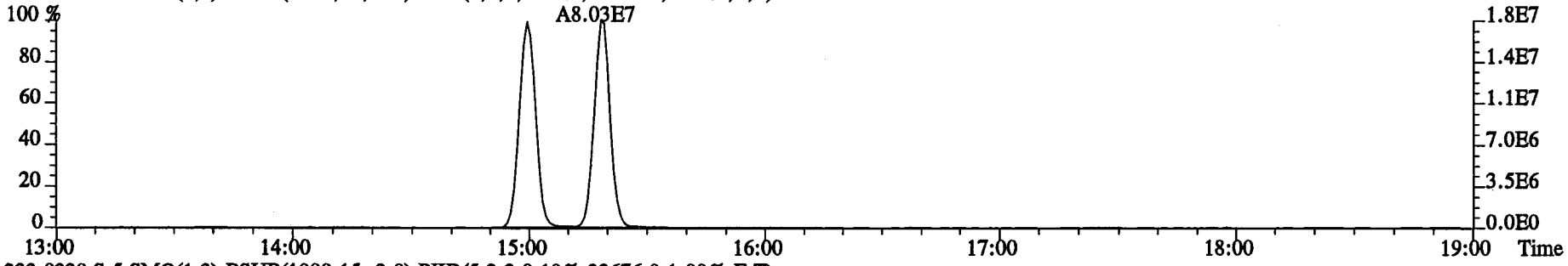
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27428.0,1.00%,F,T)



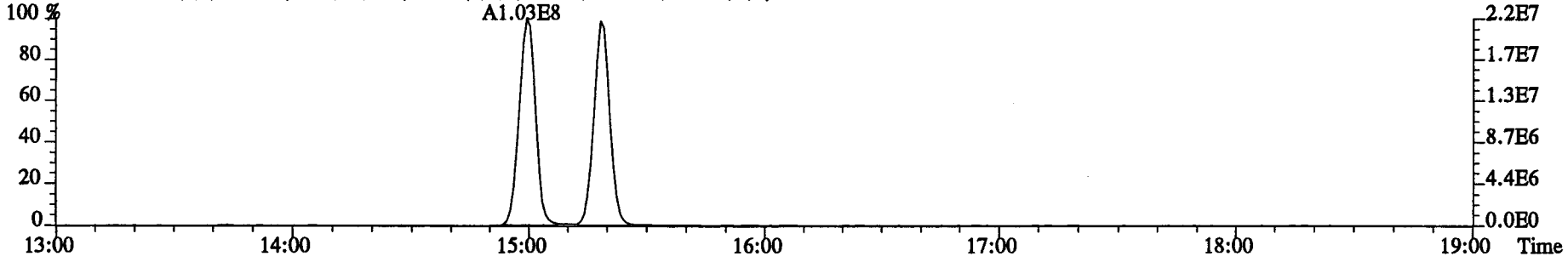
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27428.0,1.00%,F,T)



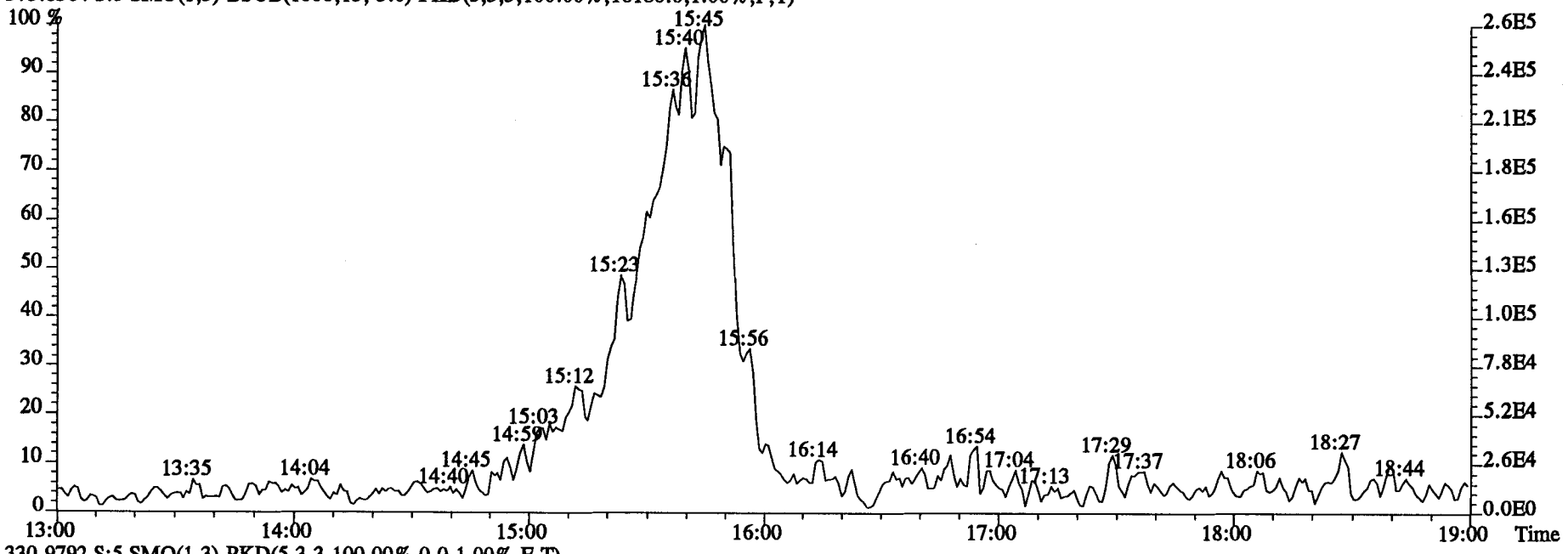
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30168.0,1.00%,F,T)



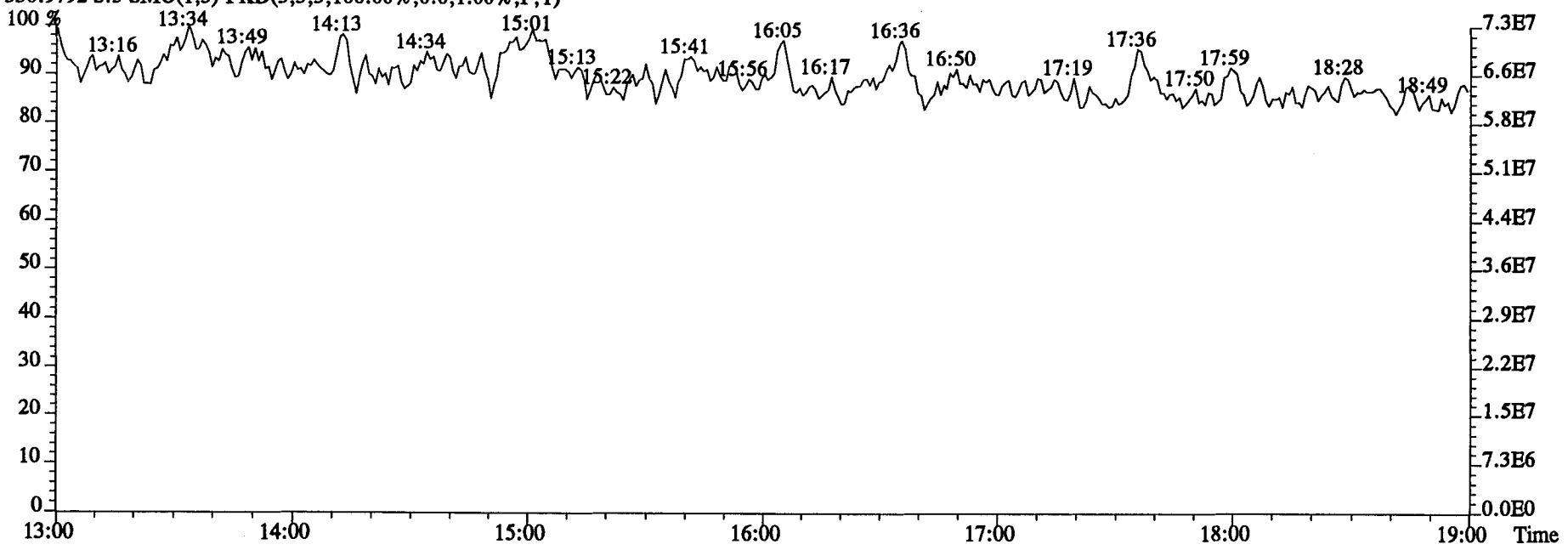
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23676.0,1.00%,F,T)



File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16180.0,1.00%,F,T)

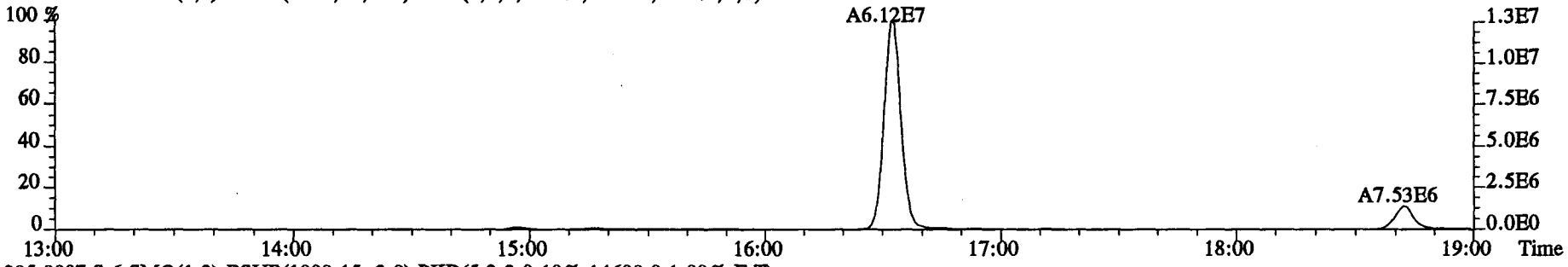


330.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

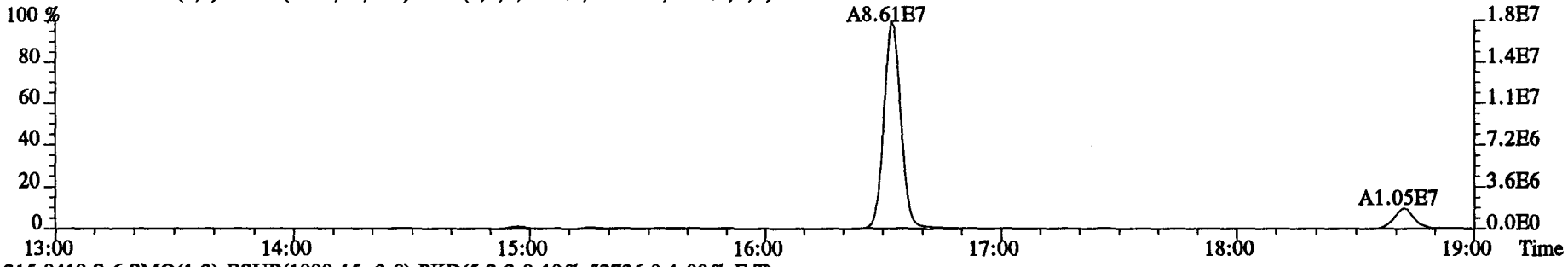


File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES

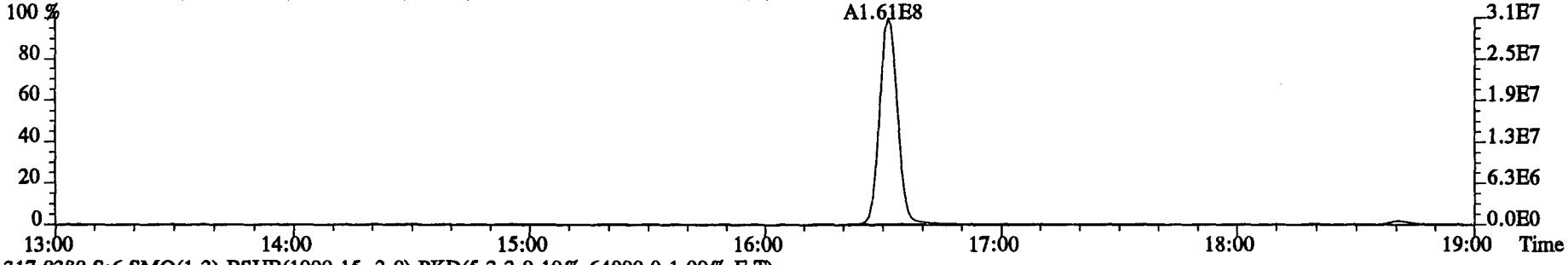
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9728.0,1.00%,F,T)



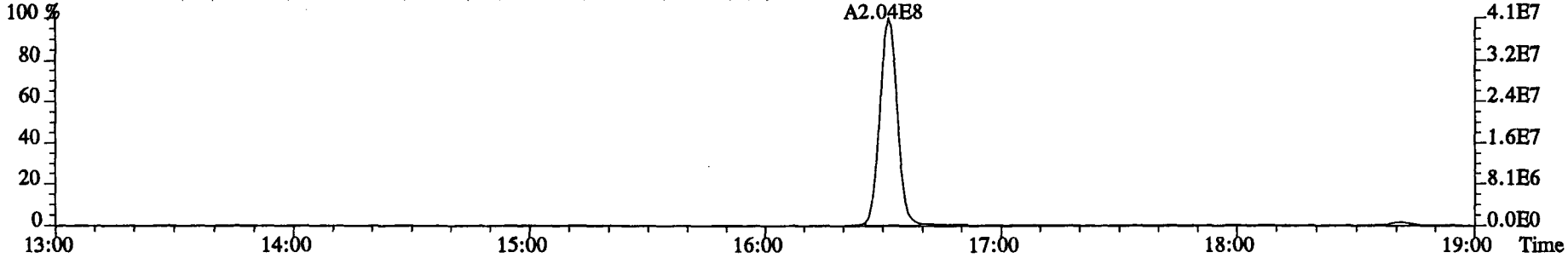
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14608.0,1.00%,F,T)



315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,53736.0,1.00%,F,T)

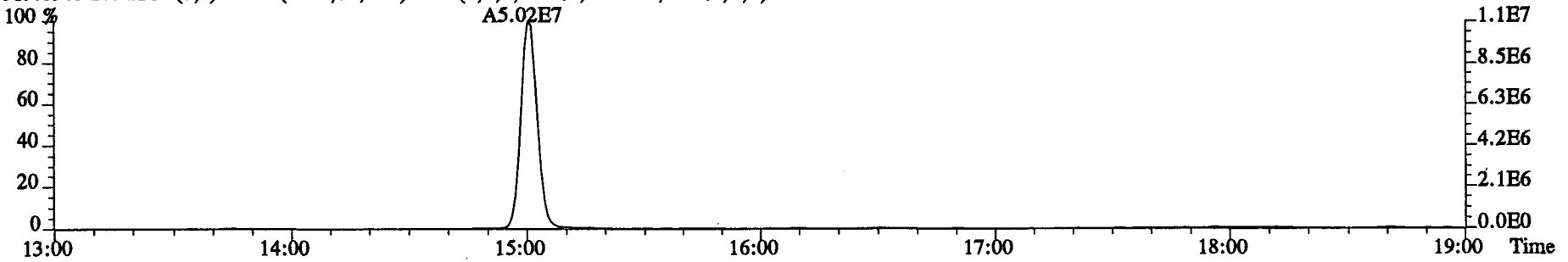


317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64900.0,1.00%,F,T)

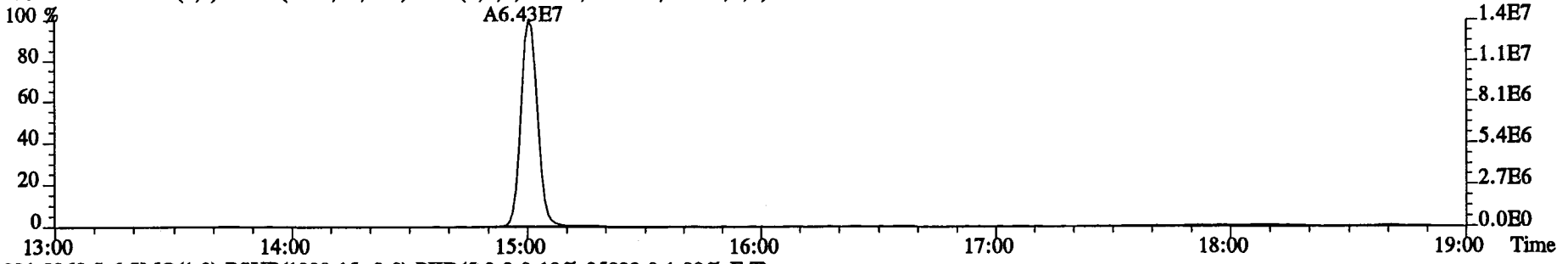


File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES

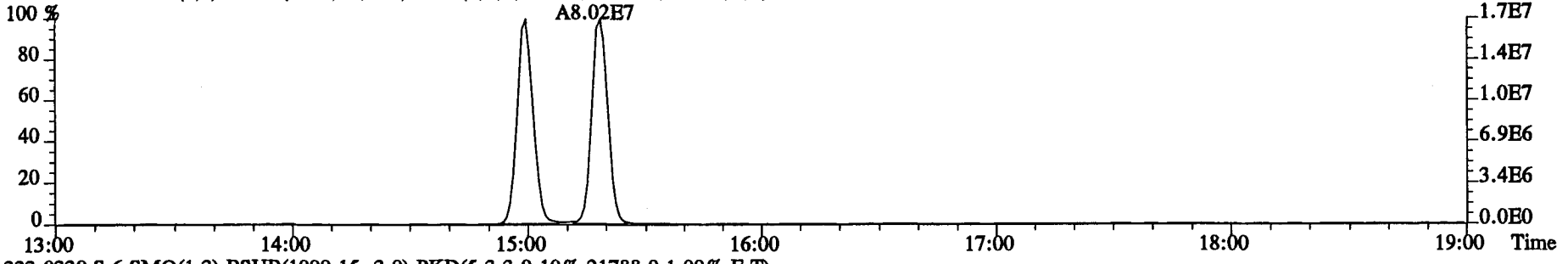
319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11064.0,1.00%,F,T)



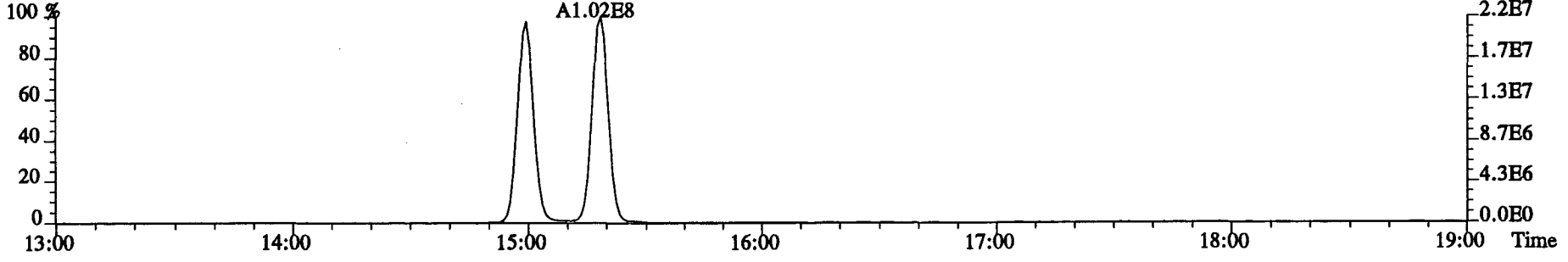
321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17968.0,1.00%,F,T)



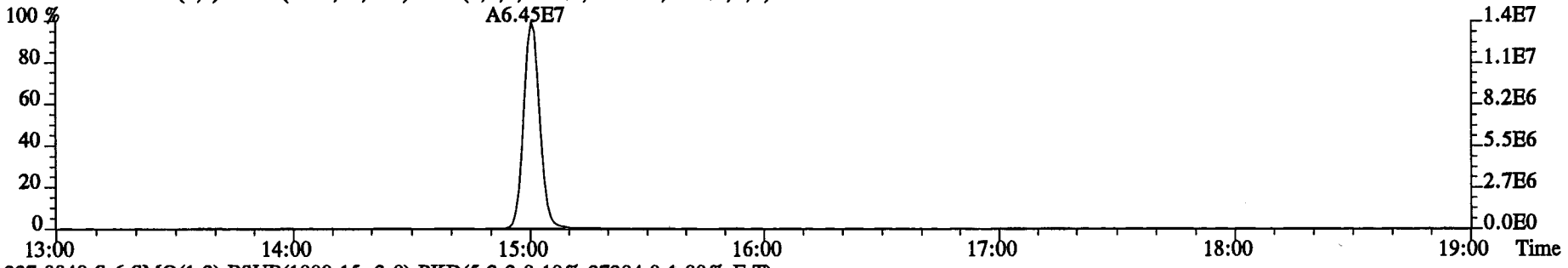
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35932.0,1.00%,F,T)



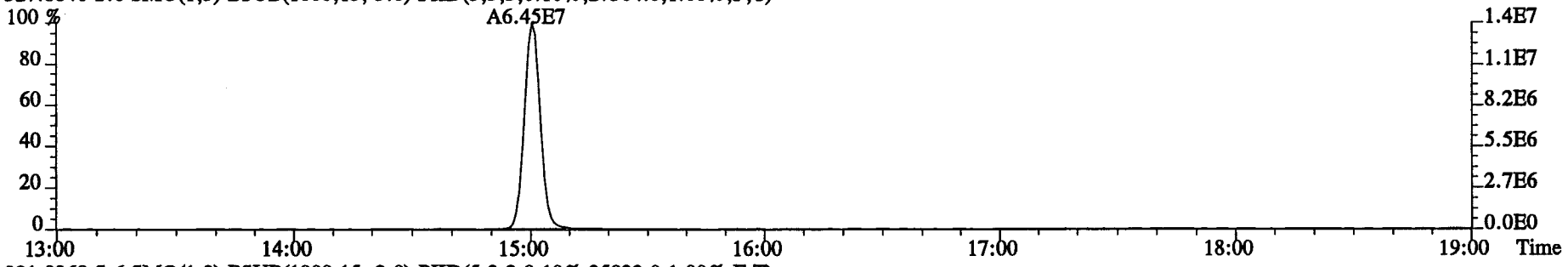
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21788.0,1.00%,F,T)



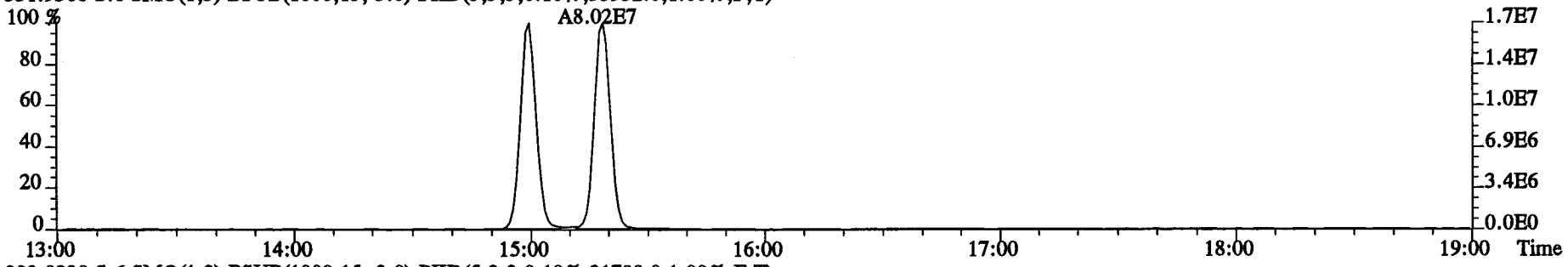
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27304.0,1.00%,F,T)



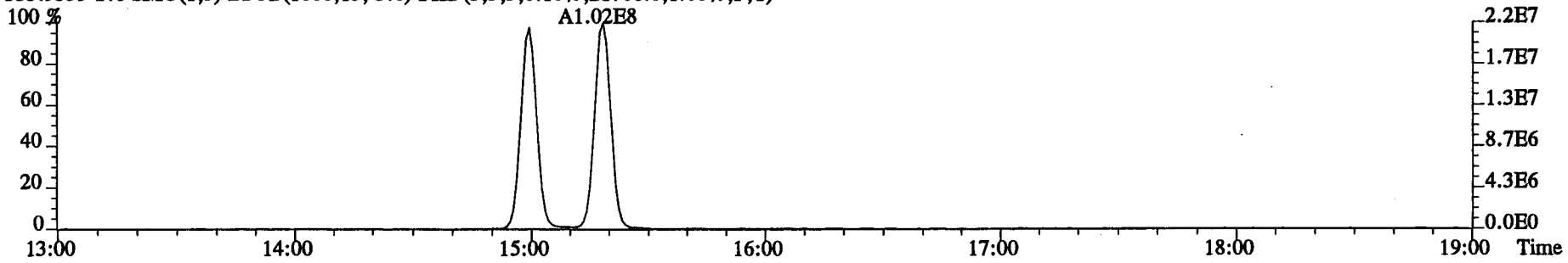
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27304.0,1.00%,F,T)



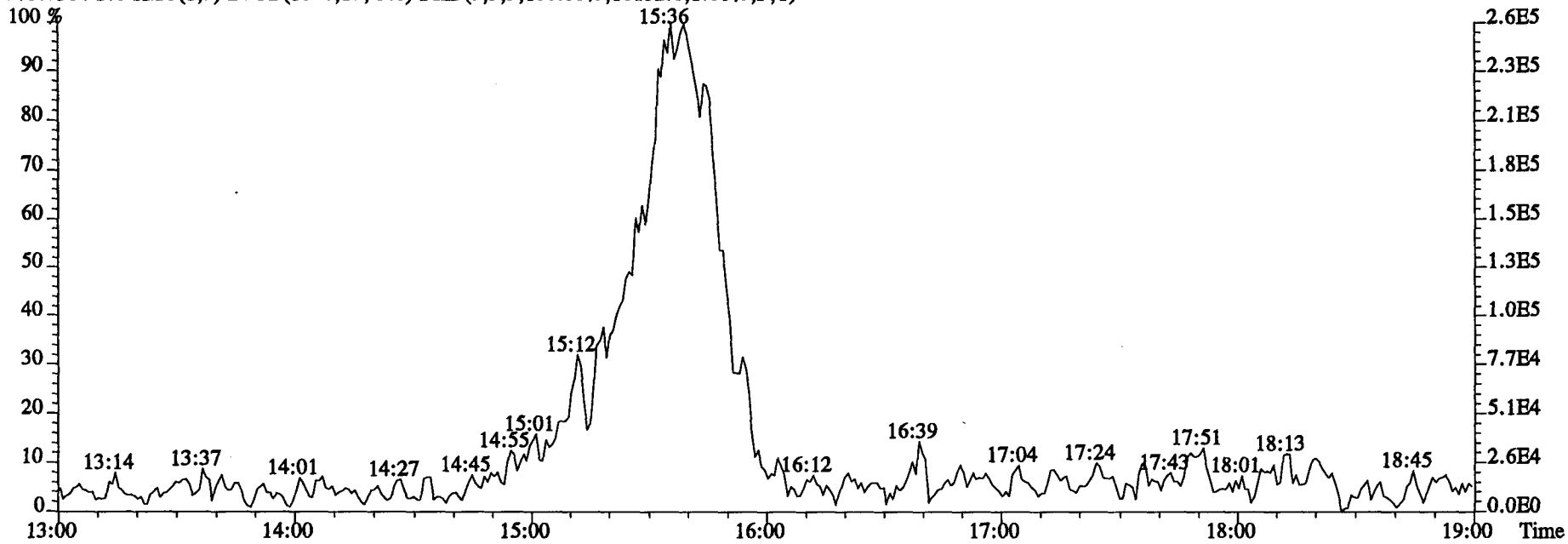
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35932.0,1.00%,F,T)



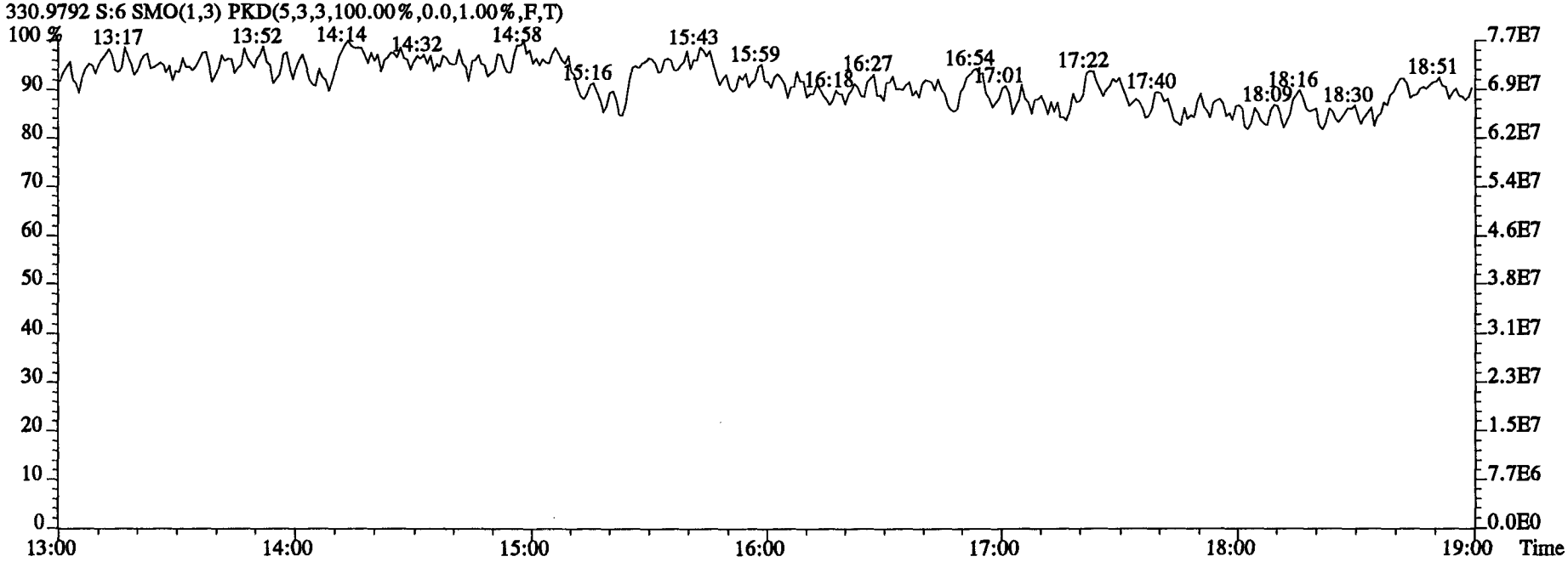
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21788.0,1.00%,F,T)



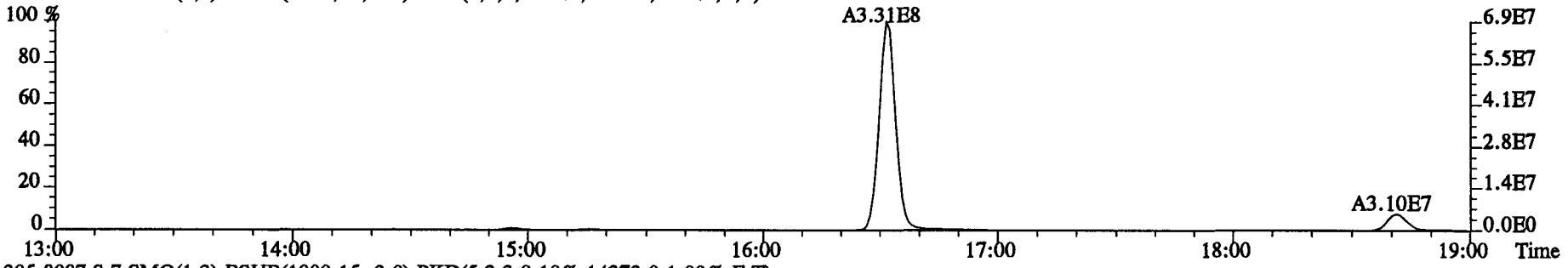
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16152.0,1.00%,F,T)



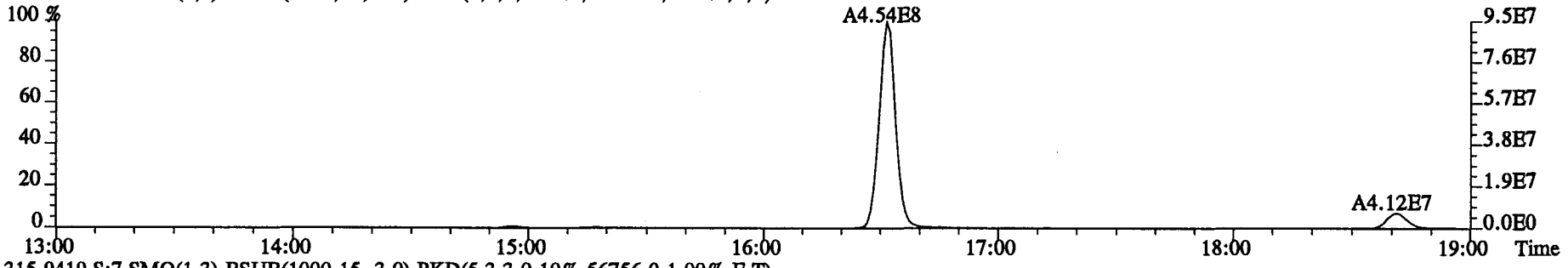
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



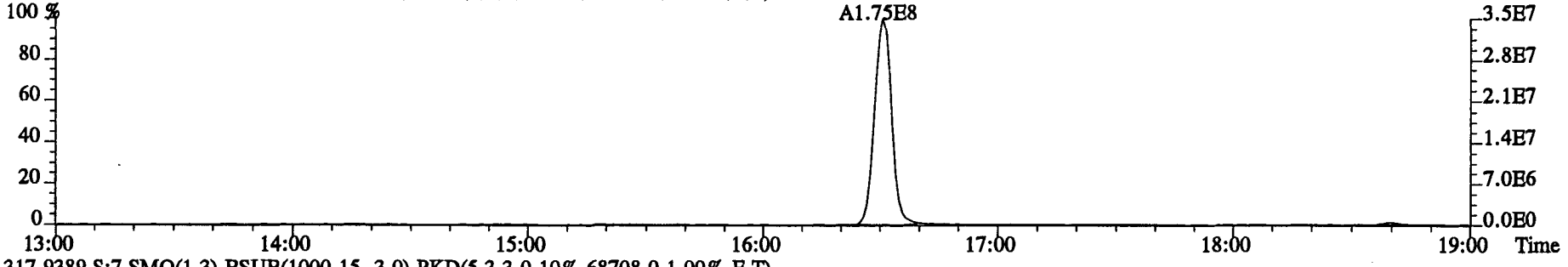
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8380.0,1.00%,F,T)



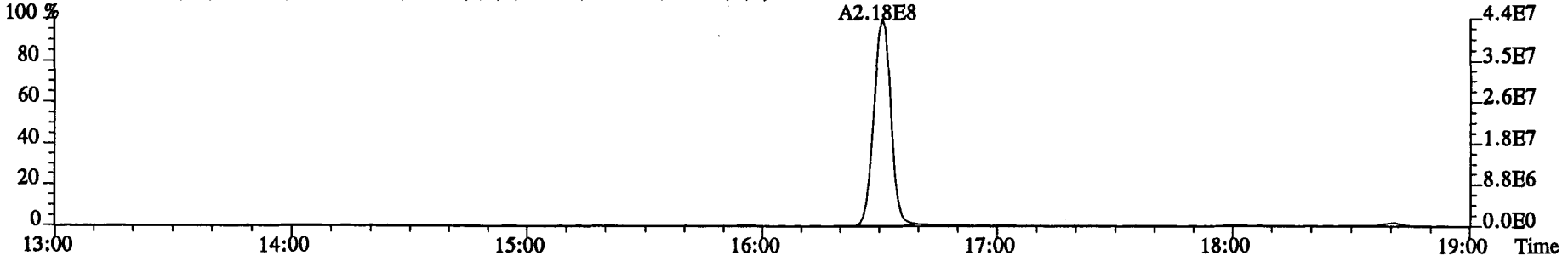
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14372.0,1.00%,F,T)



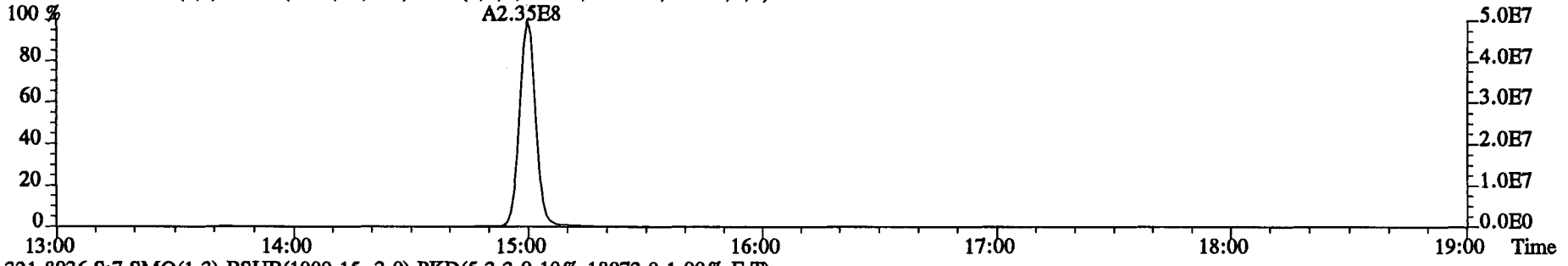
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56756.0,1.00%,F,T)



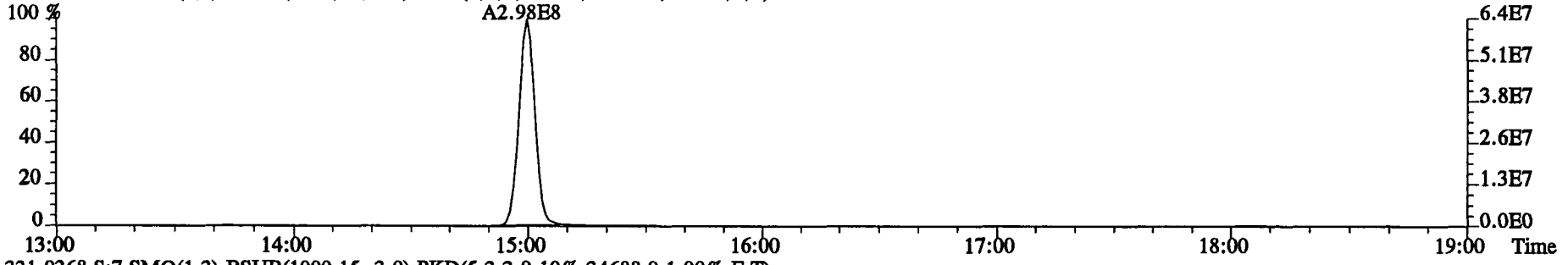
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68708.0,1.00%,F,T)



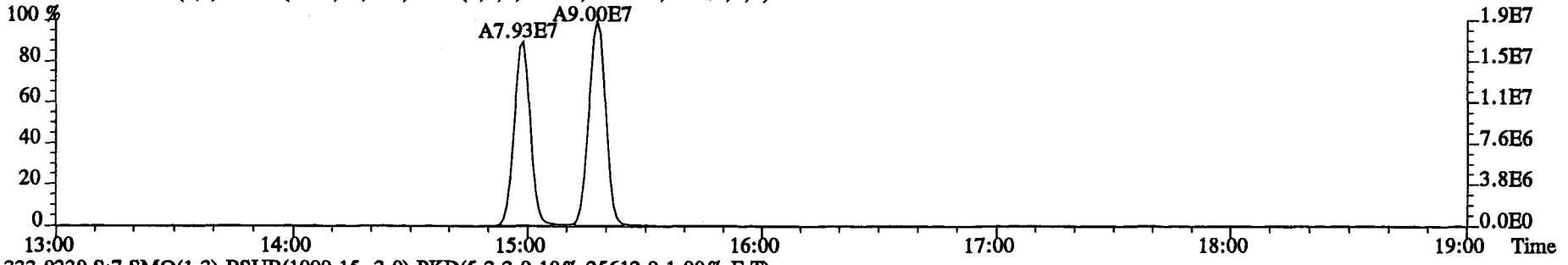
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11288.0,1.00%,F,T)



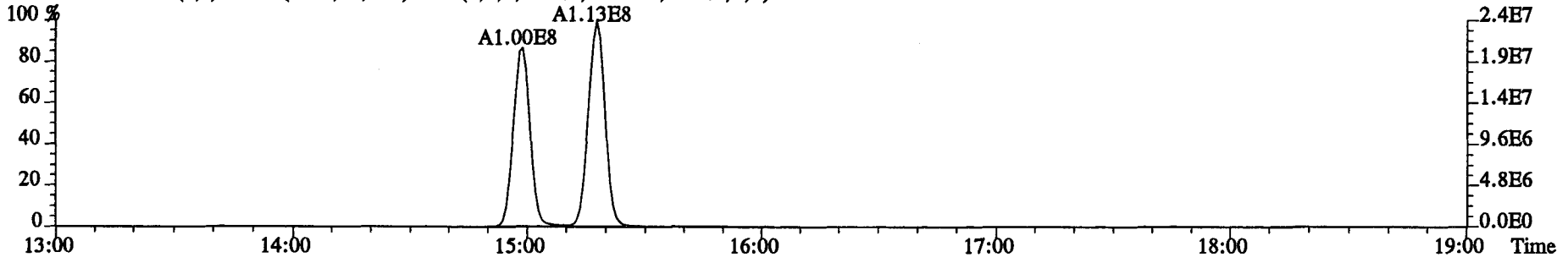
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18972.0,1.00%,F,T)



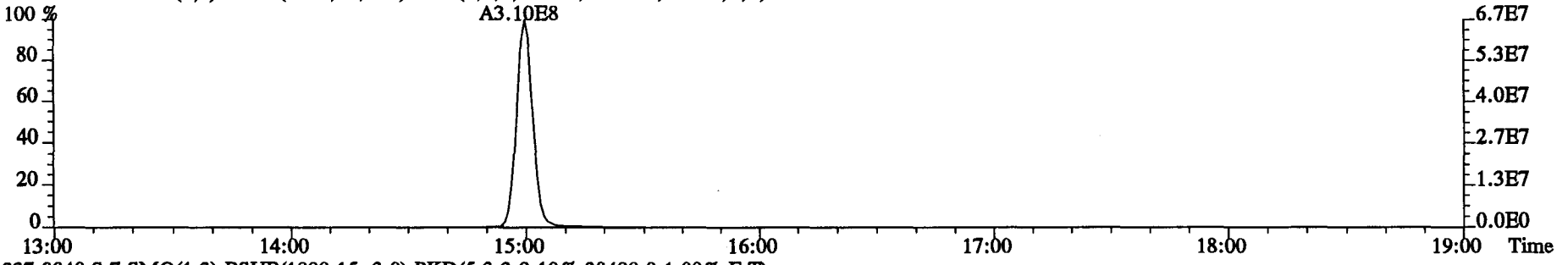
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34688.0,1.00%,F,T)



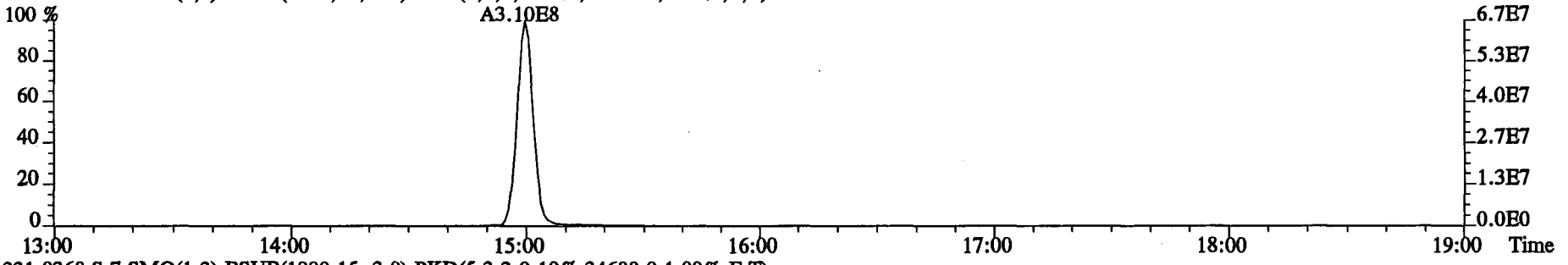
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25612.0,1.00%,F,T)



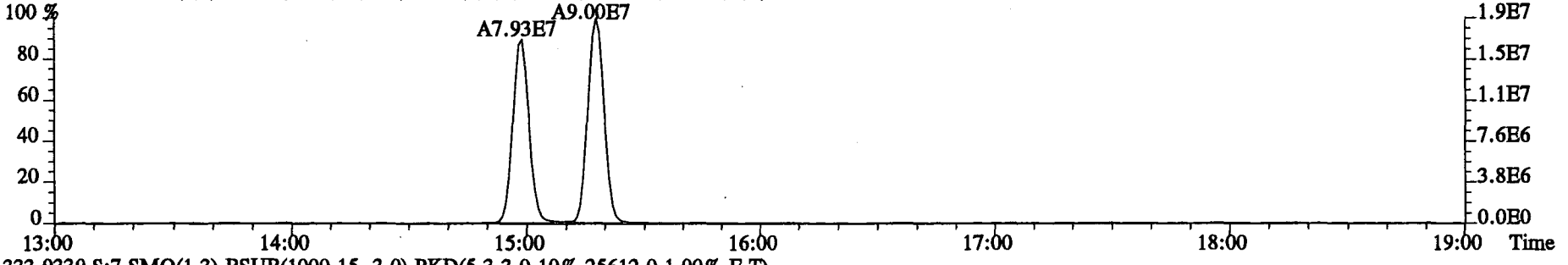
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28400.0,1.00%,F,T)



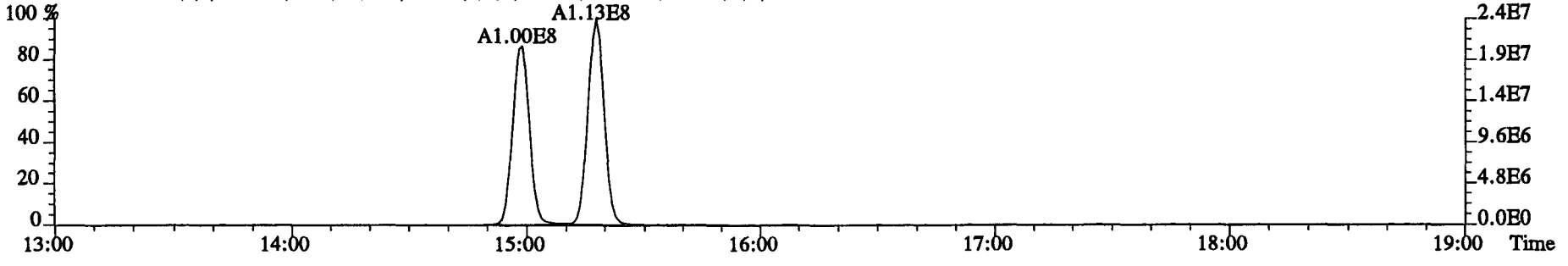
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28400.0,1.00%,F,T)



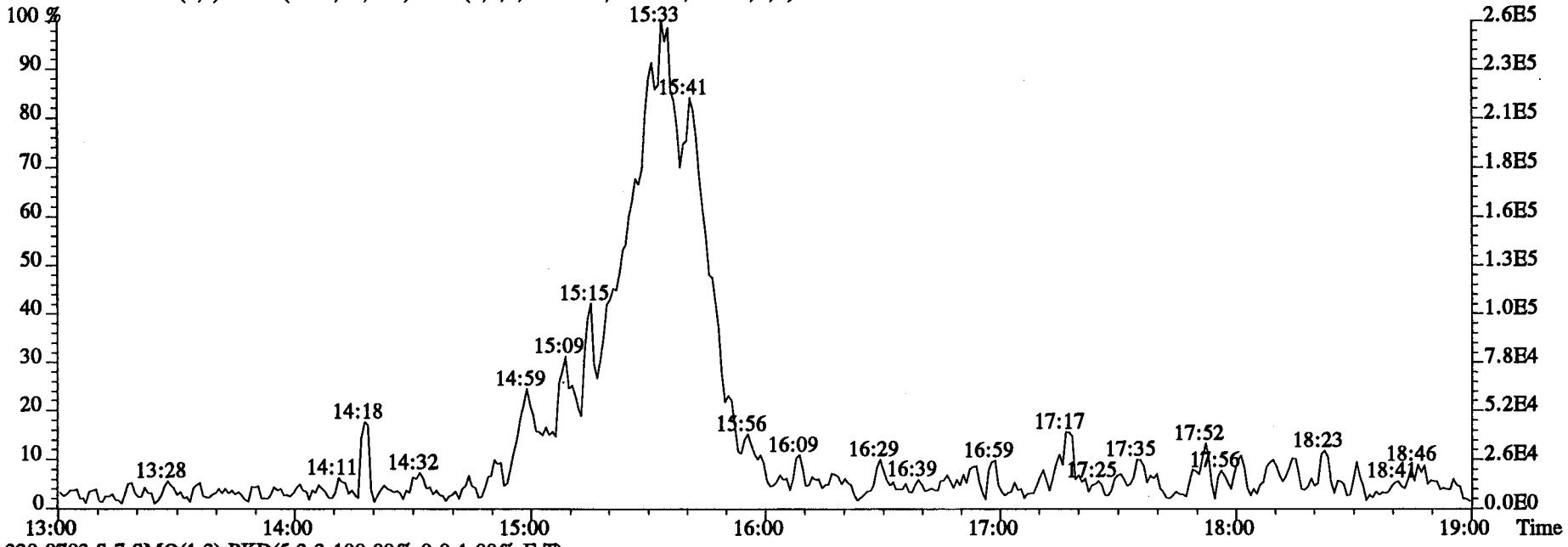
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34688.0,1.00%,F,T)



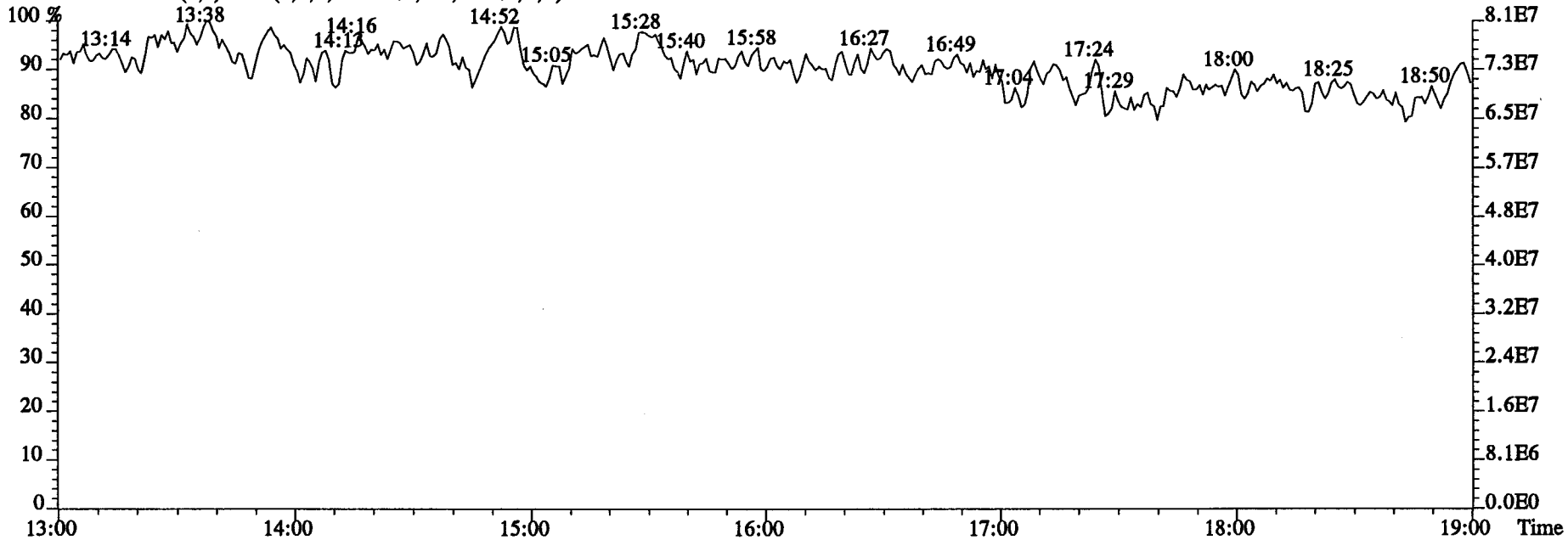
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25612.0,1.00%,F,T)



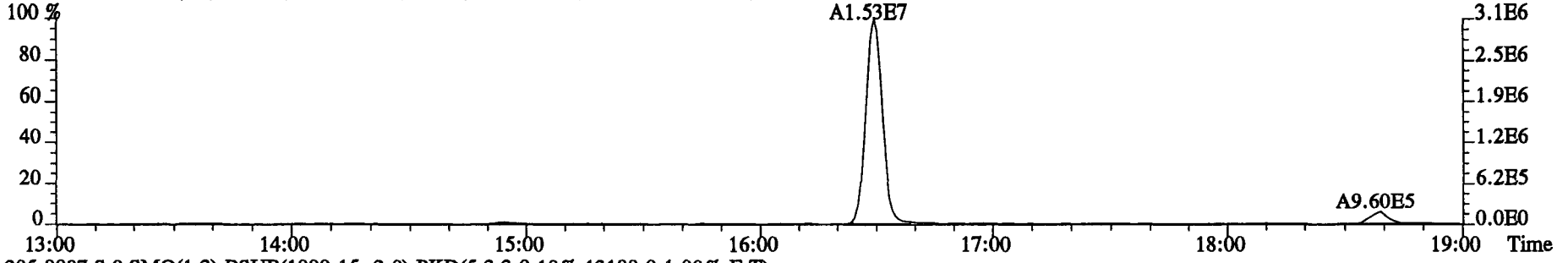
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,15424.0,1.00%,F,T)



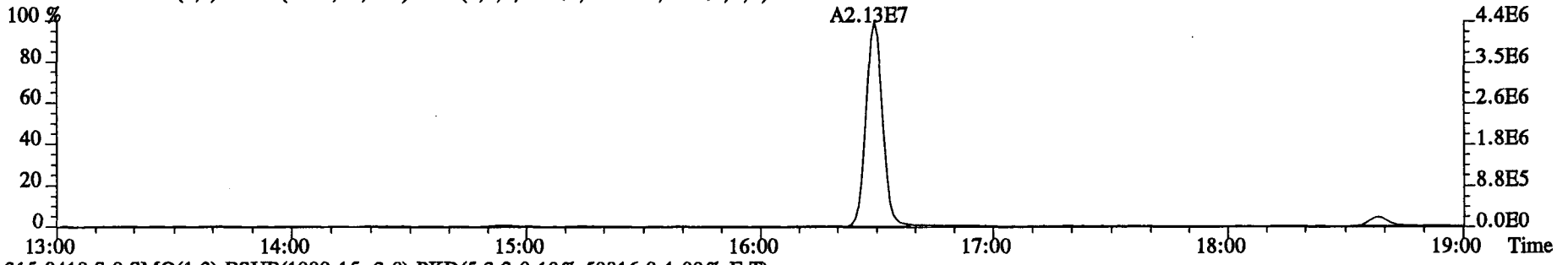
330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



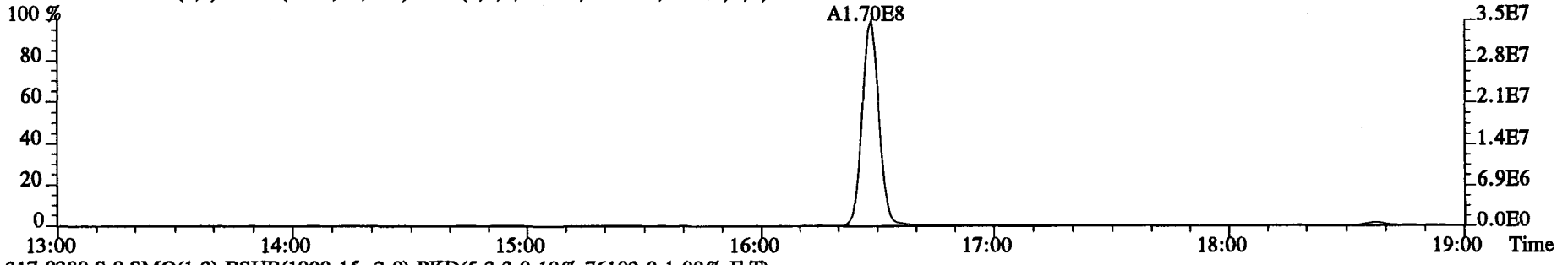
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9392.0,1.00%,F,T)



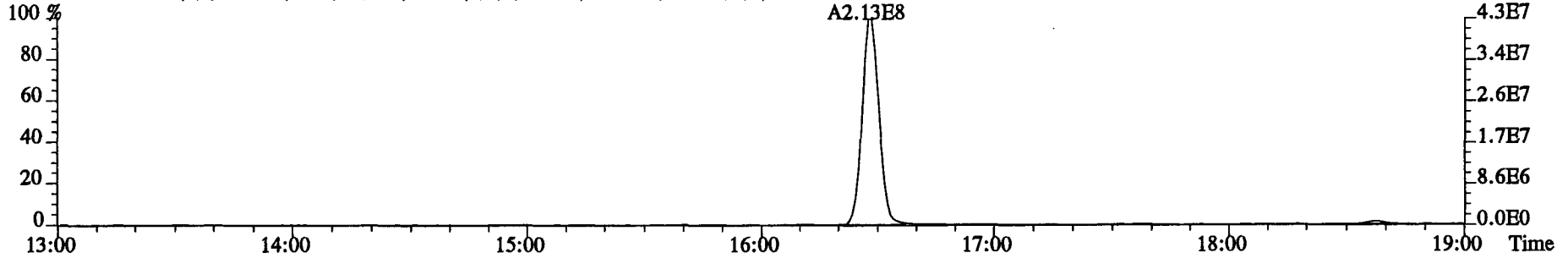
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13188.0,1.00%,F,T)



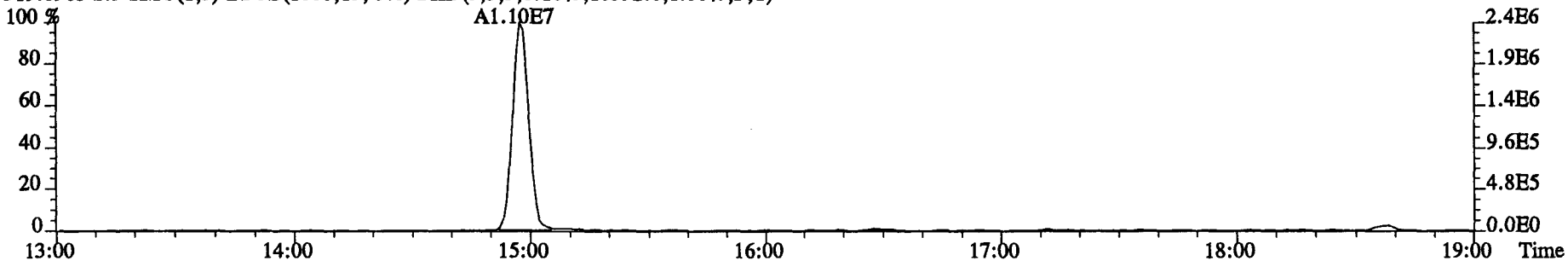
315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50816.0,1.00%,F,T)



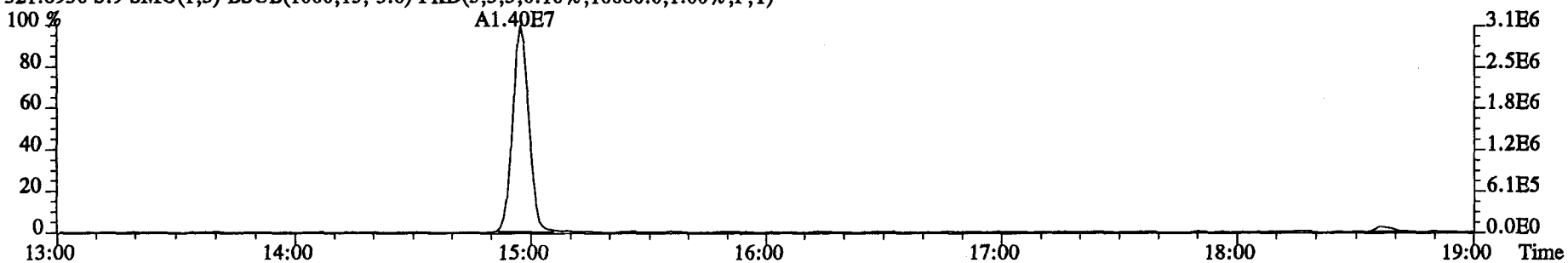
317.9389 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76192.0,1.00%,F,T)



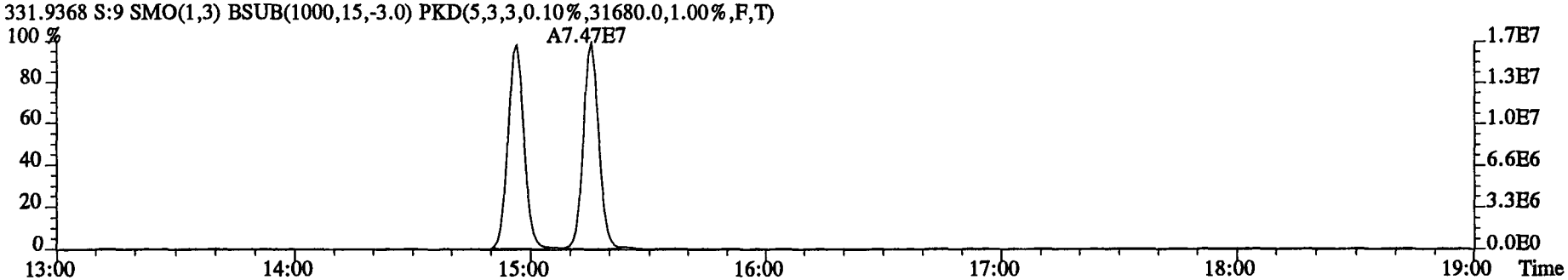
File:14DB10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10392.0,1.00%,F,T)



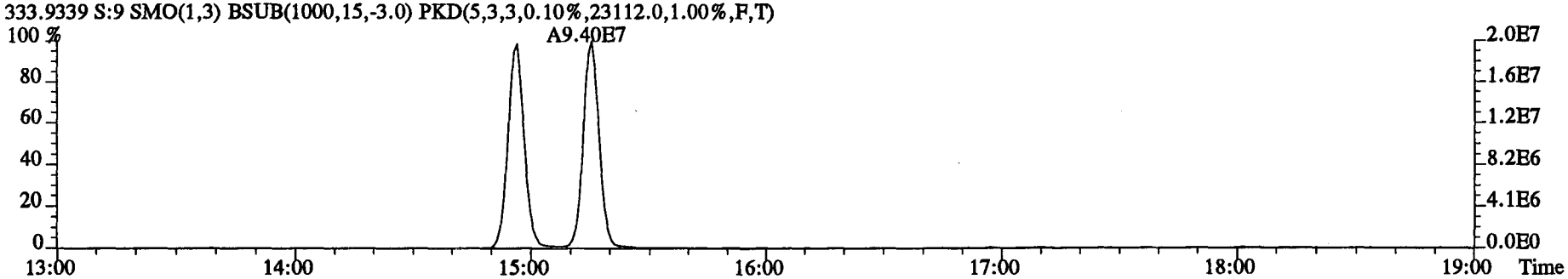
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16680.0,1.00%,F,T)



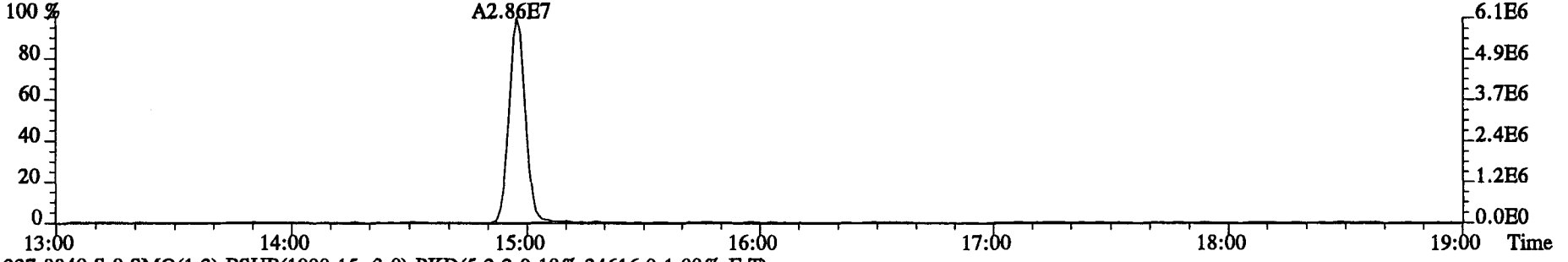
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31680.0,1.00%,F,T)



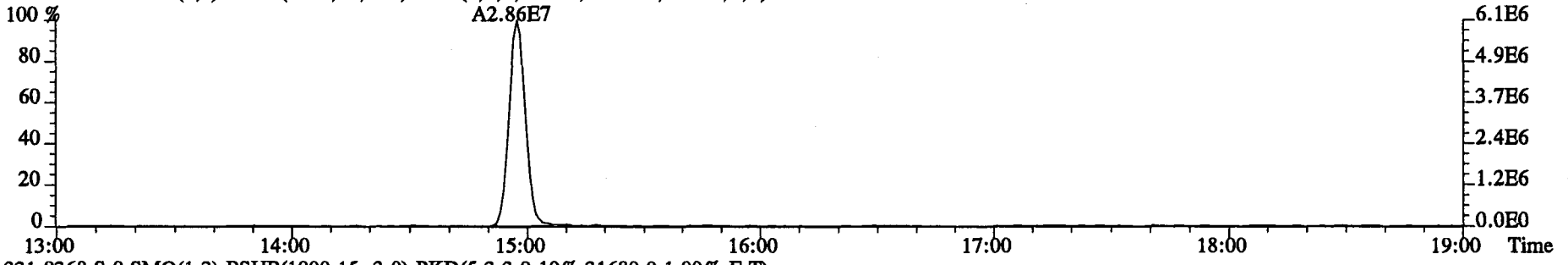
333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23112.0,1.00%,F,T)



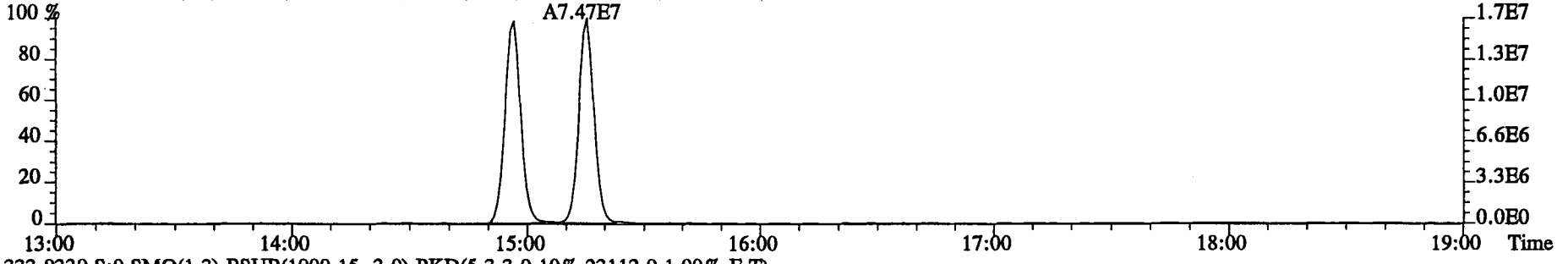
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24616.0,1.00%,F,T)



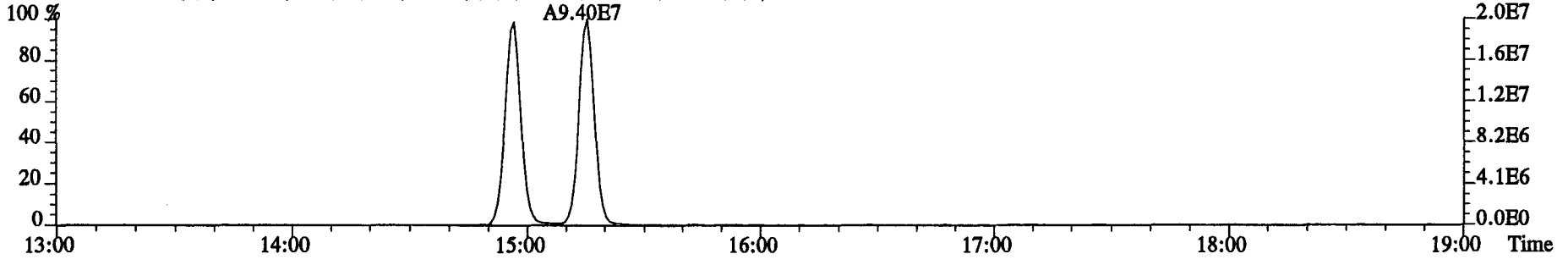
327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24616.0,1.00%,F,T)

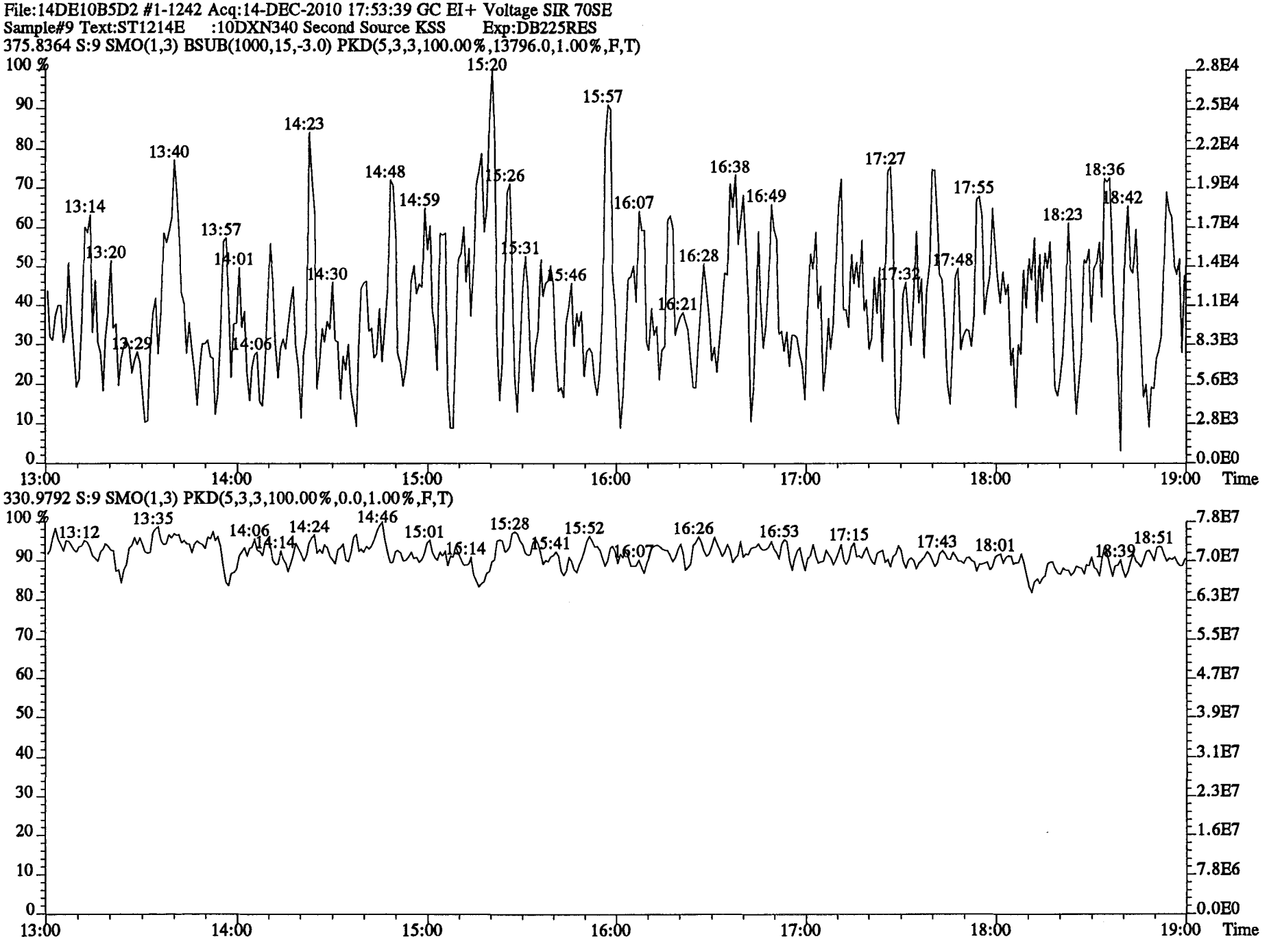


331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31680.0,1.00%,F,T)

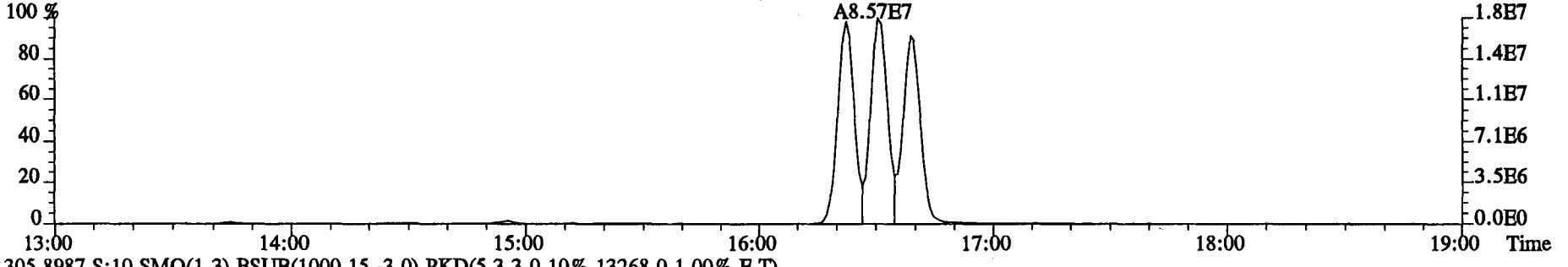


333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23112.0,1.00%,F,T)

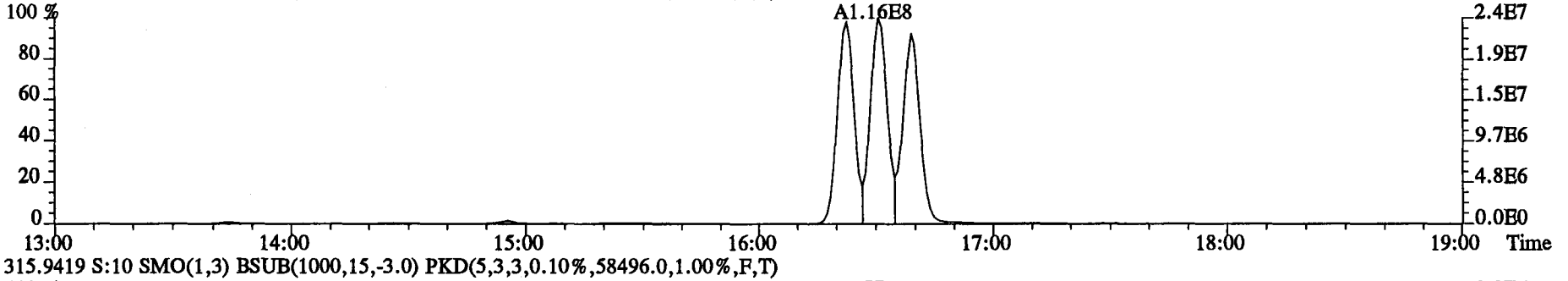



File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13796.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:14
13:20
13:29
13:40
13:57
14:01
14:06
14:23
14:30
14:48
14:59
15:20
15:26
15:31
15:46
15:57
16:07
16:21
16:28
16:38
16:49
17:27
17:32
17:48
17:55
18:23
18:36
18:42
2.8E4
2.5E4
2.2E4
1.9E4
1.7E4
1.4E4
1.1E4
8.3E3
5.6E3
2.8E3
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:12
13:35
14:06
14:14
14:24
14:46
15:01
15:14
15:28
15:41
15:52
16:07
16:26
16:53
17:15
17:43
18:01
18:39
18:51
7.8E7
7.0E7
6.3E7
5.5E7
4.7E7
3.9E7
3.1E7
2.3E7
1.6E7
7.8E6
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time

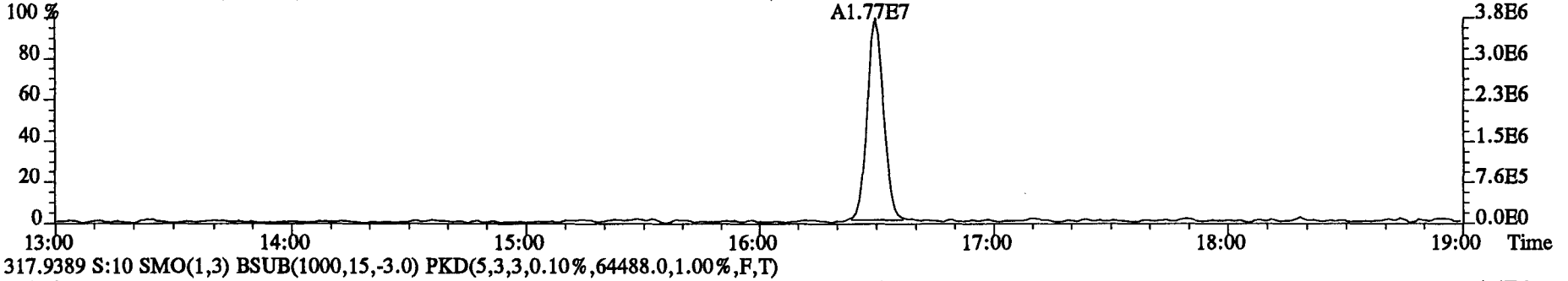
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9000.0,1.00%,F,T)



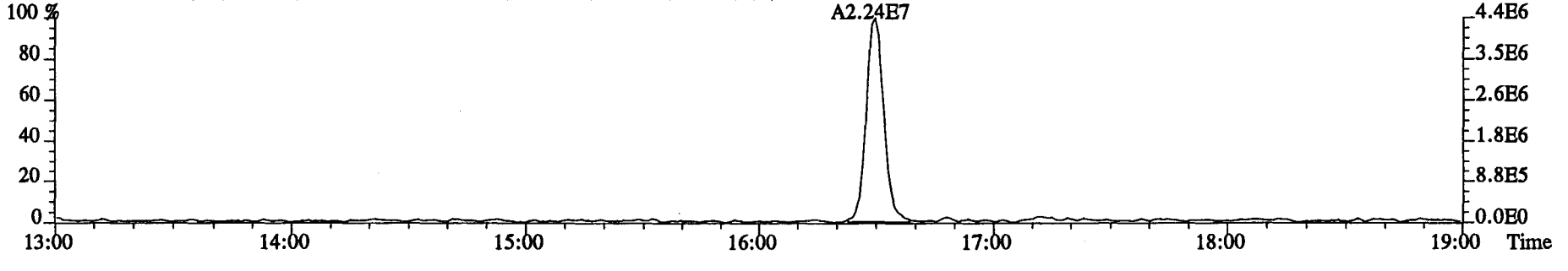
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13268.0,1.00%,F,T)



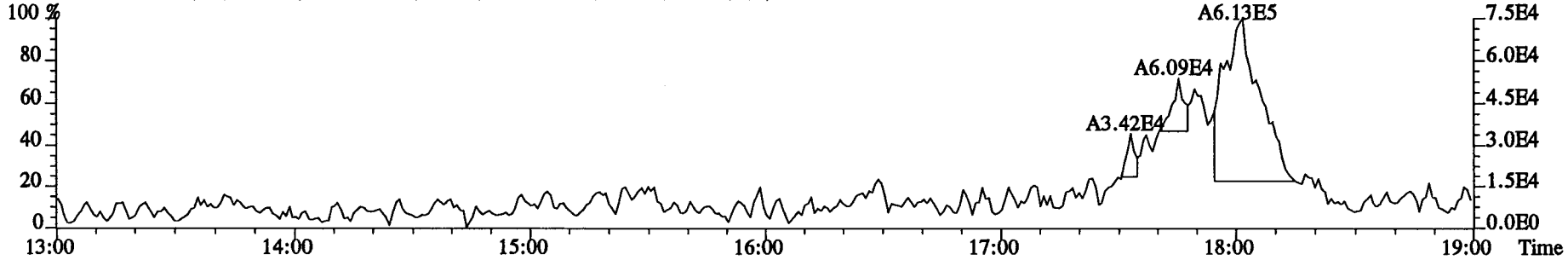
315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,58496.0,1.00%,F,T)



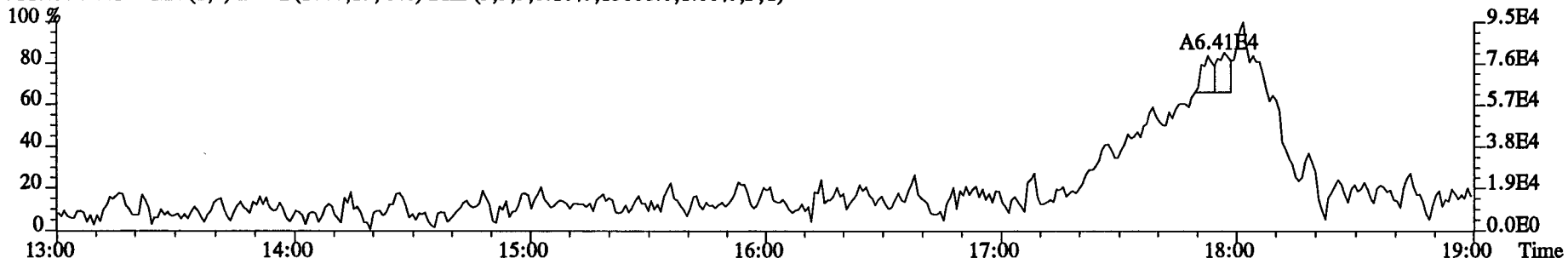
317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64488.0,1.00%,F,T)



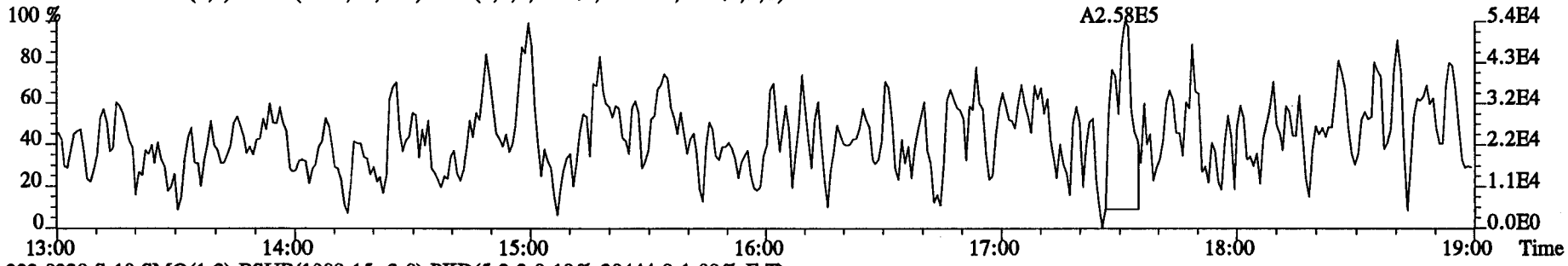
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9728.0,1.00%,F,T)



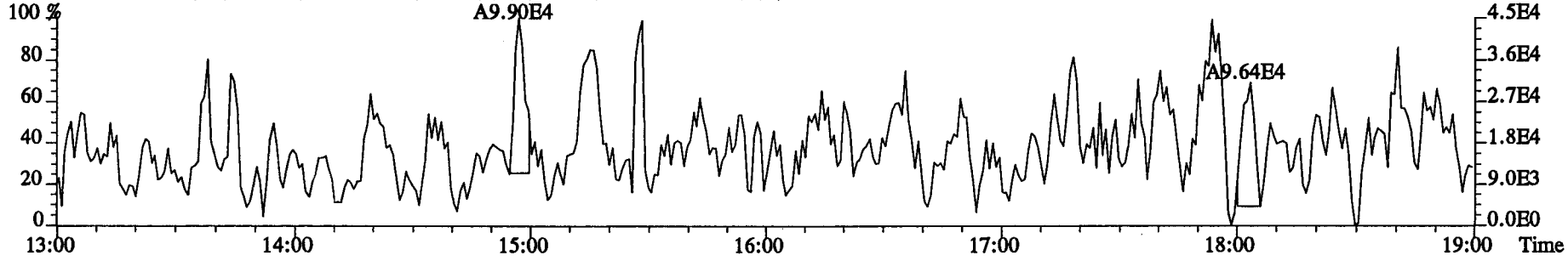
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15888.0,1.00%,F,T)



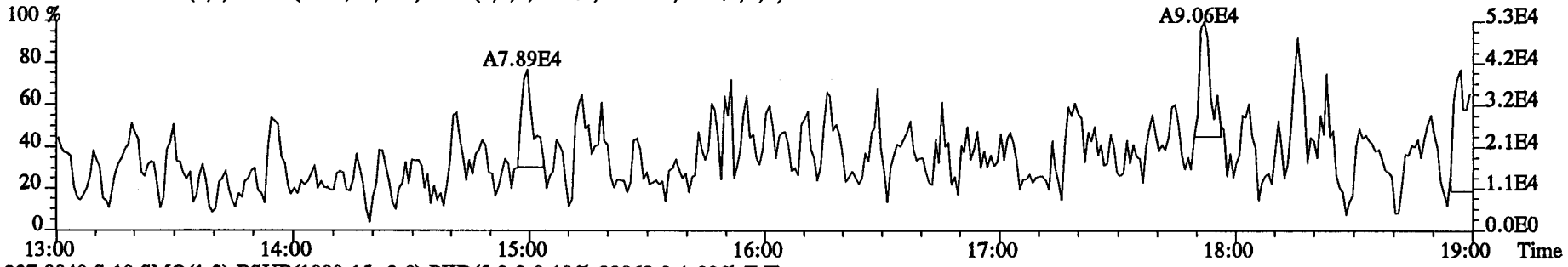
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31972.0,1.00%,F,T)



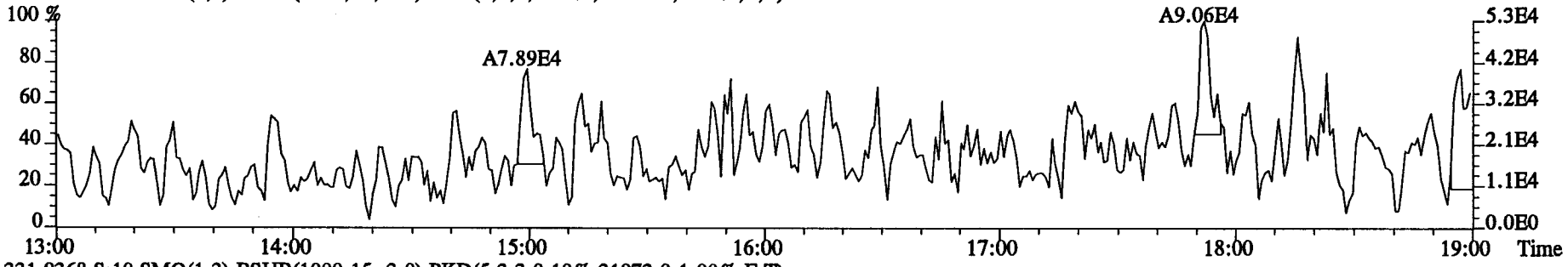
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20444.0,1.00%,F,T)



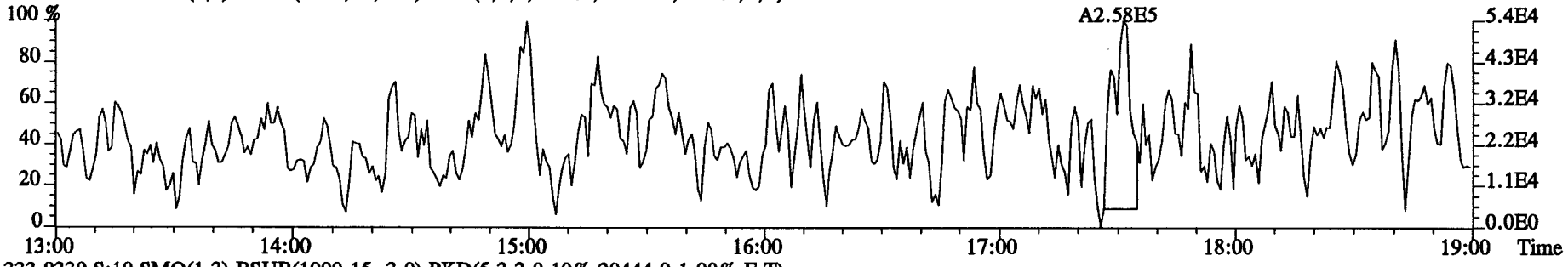
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22968.0,1.00%,F,T)



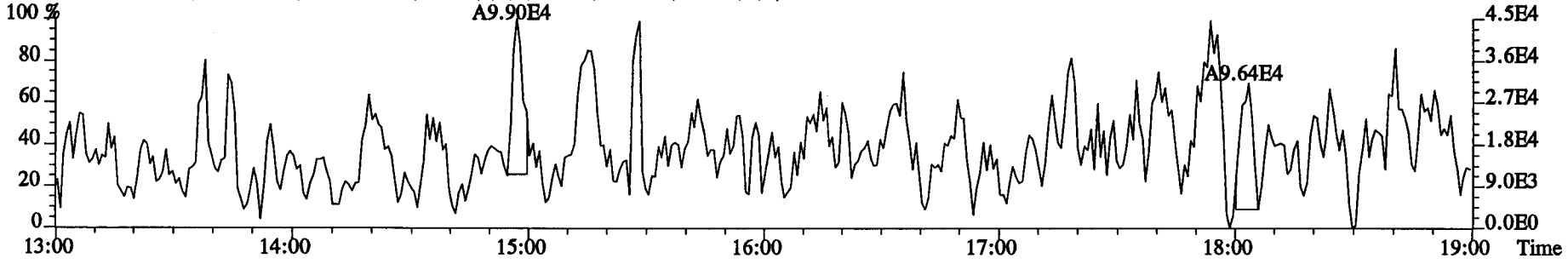
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22968.0,1.00%,F,T)



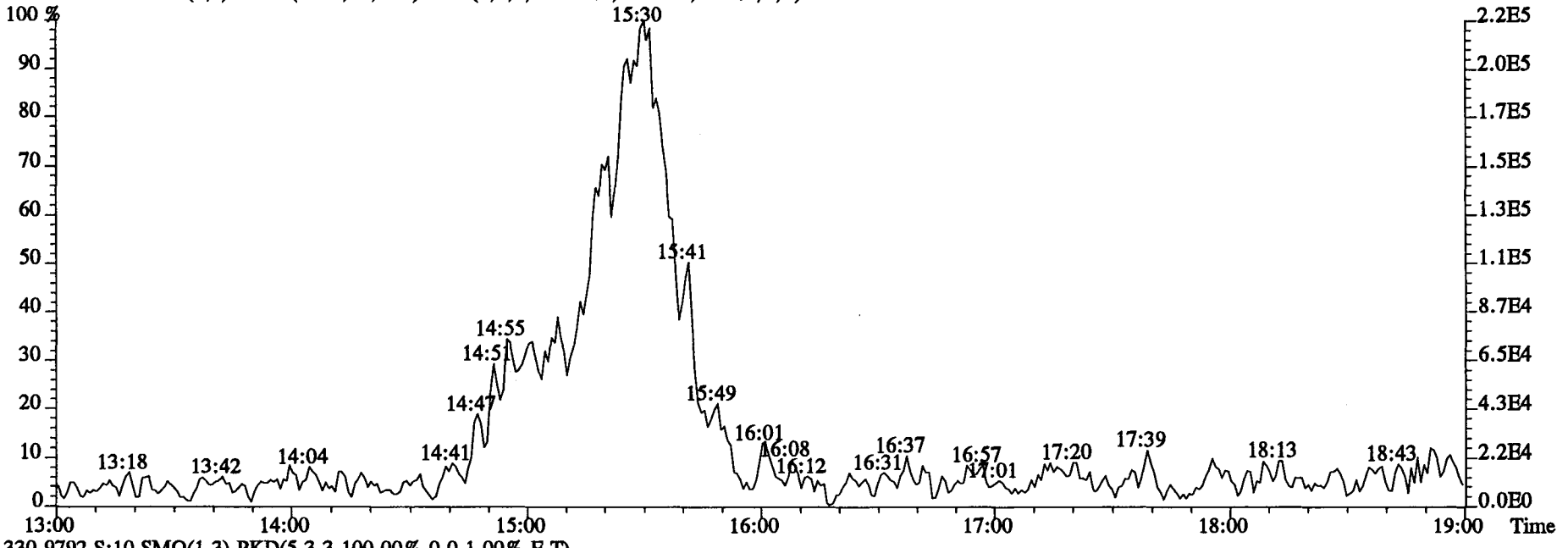
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31972.0,1.00%,F,T)



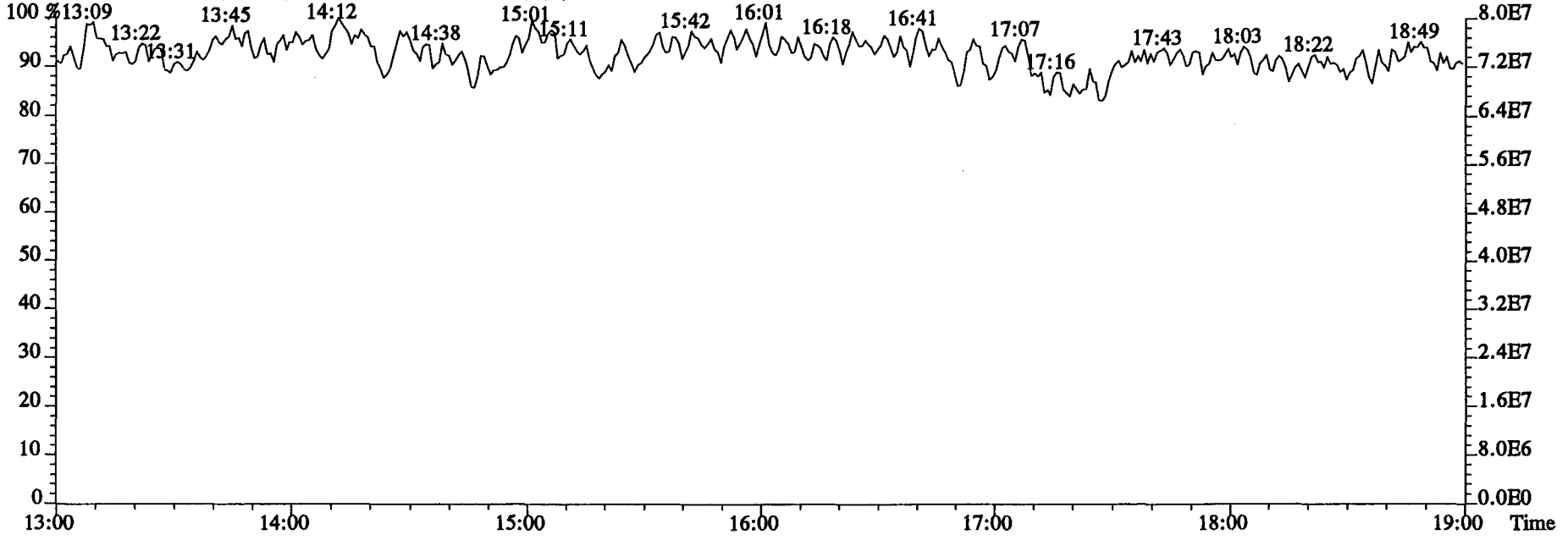
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20444.0,1.00%,F,T)



File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13400.0,1.00%,F,T)



330.9792 S:10 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Air Extraction

Batch: 0342379
MS Run #:
Prep Date: 12/8/2010

Box # 35

Shared QC Batch: Same

Shares QC With: NA

Internal COC:	
Delivered to Inst.:	12/10/10
Inst Receipt:	

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W

Soxhlet time on: 1630 Soxhlet time off: 9:00 12/9/10

Prep Reagents		
Reagent	**Supplier**	**Lot #**
Toluene	Baker	J31N58
Hexane	Baker	J34E43
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-85C
65% DCM:Hexane	NA	3630-88D
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	NA	4022-10G
Acid Alumina	MP-Bio	79
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size *	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
					20uL	Other				
G0L080000 - 379	B	MA3AG1AA	12/10/2010	1.0	✓	NA	1/17/2011			5
G0L080000 - 379	C	MA3AG1AC	12/10/2010	1.0	✓		1/17/2011			7
G0L080000 - 379	L	MA3AG1AD	12/10/2010	1.0	✓		1/17/2011	12/10/10		6
G0L080454 - 2		MA1X31AA	12/10/2010	1.0	✓		1/17/2011			5
G0L080454 - 5		MA11D1AA	12/10/2010	1.0	✓		1/17/2011			7
G0L080454 - 8		MA1121AA	12/13/2010	1.0	✓		1/17/2011			6
G0L080454 - 11		MA12V1AA	12/13/2010	1.0	✓		1/17/2011			5

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: _____

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	2.0mL/10DXN463/8290 IS 2.4 pg/µl	12/10/10		JZ	12/08/10
Spike Mix LCS/LCSD~~/MS/MS~~	100µl/10DXN431/8290 NS 4-40 pg/µl	9/2/11		JZ	12/08/10
Pre-Spike Standard MB~~/LCS/LCSD~~	200µl/10DXN429/TCDD 8 pg/µl	7/19/11		JZ	12/08/10
Recovery Standard All Samples	20µl 10DXNEDS	10/28/11			12/10/10
Soxhlet Extraction Analyst/Date	SVL 12/8/10				

½ archive Split/Archive Analyst/Date 5.0mL	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
MC 12/10/10	—	MC 12/10/10	—

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0342379 **Test:** TO-9

Prep Date: 12/8/P **Holding Times:** 12/10/10 **NCM:** Y N

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

Spike witness: JZ Date: 12/08/10

2nd Level Reviewer: [signature] Date: 12/10/10

Comments:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/15/10
Time: 17:04:02

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

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

Extractionist: 090182 Steve Valmores

Concentrationist: 006625 Elizabeth Nguyen

QC BATCH: 0342379

PREP DATE: 12/08/10 16:00
COMP DATE: 12/10/10 17:00

Reviewer/Date: NGUYENE / 12/10/10

Dioxins/Furans, HRGC/HRMS (TO-9)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
12/10/10	12/15/10	G0L080454-002 **MA1X3-1-AA**	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	2.0ML IS10DXN463
COMMENTS:															
12/10/10	12/15/10	G0L080454-005 **MA11D-1-AA**	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	2.0ML IS10DXN463
COMMENTS:															
12/13/10	12/15/10	G0L080454-008 **MA112-1-AA**	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	2.0ML IS10DXN463
COMMENTS:															
12/13/10	12/15/10	G0L080454-011 **MA12V-1-AA**	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	2.0ML IS10DXN463
COMMENTS:															
12/10/10	0/00/00	G0L080000-379 **MA3AG-1-AA**B		11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	200.0UL 10DXN429 2.0ML IS10DXN463
COMMENTS:															
12/10/10	0/00/00	G0L080000-379 **MA3AG-1-AC**C		11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	100.0UL NS10DXN431 2.0ML IS10DXN463
COMMENTS:															
12/10/10	0/00/00	G0L080000-379 **MA3AG-1-AD**L	R	11	IK	AIR	1 20.00uL	NA	NA	NA	TOL	750.0		.0	100.0UL NS10DXN431 2.0ML IS10DXN463
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0342379 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

	DB-5	DB-225
Data Analyst:	MG	MG
Date initiated:	12/15/10	12/15/10
Reviewer:	[illegible]	[illegible]
Date reviewed:	12/16/2010	12/16/2010

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

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓	✓	✓
-All raw data present?	✓	✓	✓	✓
-Standard target DL's used? If RL's are used specify:_____	✓	✓	✓	✓
-DL's below TDL / LCL (please circle)?	✓	✓	✓	✓
-All positives reported at levels greater than method blank DL's?	✓	✓	✓	✓
-Correct RRF's used for method?	✓	✓	✓	✓
-Internal standard amounts correct for method?	✓	✓	✓	✓
-Target analytes are not saturated?	✓	✓	✓	✓
-Dilution/splitting of extract taken into account?	✓	✓	✓	✓
-Have dilution calculations been verified?	NA	NA	NA	NA
-Has a manual calculation for the sequence(s) been verified?	✓	✓	✓	✓
-Are retention times (RT) correct?	✓	✓	✓	✓
-Manual integrations checked?	✓	✓	✓	✓

Comments: (Use other side if necessary)

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

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ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): **M01** (M02)		Method 6020 SOP SAC-MT-0001	
File Number	Batch Numbers	Date	Analyst
10121342	344278, 347254, 347255, 344269	12-13-10	SM

Lot Numbers: GOL100456, GOL090441, GOL110445, GOL030531, GOL080454	YES	NO	NA
1. Copy of analysis protocol used included?			
2. ICVs & CCVs within 10% of true value or recal and rerun?			
3. ICB & CCBs < reporting limit or recal and rerun?			
4. 10 samples or less analyzed between calibration checks?			
5. All parameters within linear range?			
6. LCS/LCSD within limits?			
7. Prep blank value < reporting limit or all samples >20x blank?			
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?			
9. Appropriate dilution factors applied to data?			
10. Matrix spike and spike dup within customer defined limits?			
11. Each batch checked for presence of internal standard in samples?			
12. Anomalies entered using Clouseau?			

COMMENTS: rerun GOL100456 + QC for Be and GOL030531 + QC for Al

REVIEWED BY: MRZ	DATA ENTERED BY: SM
DATE: 10/14/10	DATE: 12-14-10

Dataset Report

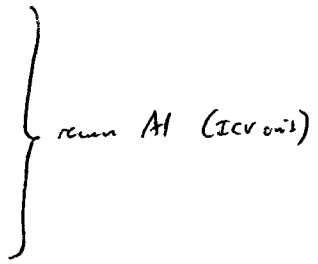
Perkin Elmer M02
SOP No. SAC-MT-0001
Method: 6020,200.8

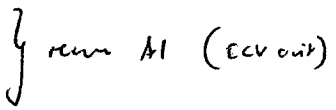
User Name: metal
Computer Name: SACP1223
Dataset File Path: e:\elandata\dataset\101213a2\
Report Date/Time: Tuesday, December 14, 2010 09:32:58

The Dataset

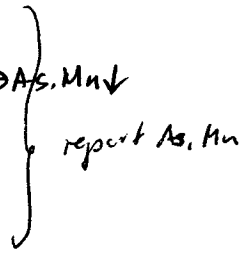
Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE SHARGRAVE	13:50:04 Mon 13-Dec-10	Sample	
	AUTOLENS SHARGF	13:52:48 Mon 13-Dec-10	Sample	
	DAILY SHARGRAVE	14:55:08 Mon 13-Dec-10	Sample	
	Rinse 2X	15:02:59 Mon 13-Dec-10	Sample	
	Blank	15:07:04 Mon 13-Dec-10	Blank	
	Standard 1	15:11:05 Mon 13-Dec-10	Standard #1	
	ICV	15:14:48 Mon 13-Dec-10	Sample	→ out Al
	ICB	15:18:37 Mon 13-Dec-10	Sample	
	LLSTD1	15:22:26 Mon 13-Dec-10	Sample	LLSTD@10X
	LLSTD2	15:26:14 Mon 13-Dec-10	Sample	LLSTD@5X
	ICSA	15:30:02 Mon 13-Dec-10	Sample	
	ICSAB	15:33:49 Mon 13-Dec-10	Sample	
	Rinse	15:41:18 Mon 13-Dec-10	Sample	
	CCV 1	15:48:48 Mon 13-Dec-10	Sample	
	CCB 1	15:52:38 Mon 13-Dec-10	Sample	
	CCV 2	15:56:27 Mon 13-Dec-10	Sample	
	CCB 2	16:00:16 Mon 13-Dec-10	Sample	
344278	MA6P6B	16:04:02 Mon 13-Dec-10	Sample	G0L100000-278 BLK
344278	MA6P6C	16:07:48 Mon 13-Dec-10	Sample	G0L100000-278 LCS
344278	MA6P6L	16:11:31 Mon 13-Dec-10	Sample	G0L100000-278 LCSD
344278	MA59Q	16:15:14 Mon 13-Dec-10	Sample	G0L100456-1
344278	MA59QP5	16:18:56 Mon 13-Dec-10	Sample	G0L100456-1 5X
344278	MA59QX	16:22:39 Mon 13-Dec-10	Sample	G0L100456-1 DU
344278	MA59QZ	16:26:22 Mon 13-Dec-10	Sample	G0L100456-1 PS
344278	MA59X	16:30:04 Mon 13-Dec-10	Sample	G0L100456-2
344278	MA591	16:33:48 Mon 13-Dec-10	Sample	G0L100456-3
344278	MA592	16:37:31 Mon 13-Dec-10	Sample	G0L100456-4
	CCV 3	16:41:20 Mon 13-Dec-10	Sample	→
	CCB 3 >Recal	16:45:09 Mon 13-Dec-10	Sample	→ out Be
	CCV 4	16:48:58 Mon 13-Dec-10	Sample	
	CCB 4	16:52:47 Mon 13-Dec-10	Sample	
344278	MA31M	16:56:31 Mon 13-Dec-10	Sample	G0L090441-1
344278	MA31Q	17:00:15 Mon 13-Dec-10	Sample	G0L090441-2
344278	MA31R	17:03:59 Mon 13-Dec-10	Sample	G0L090441-3
344278	MA31T	17:07:44 Mon 13-Dec-10	Sample	G0L090441-4
344278	MA31V	17:11:29 Mon 13-Dec-10	Sample	G0L090441-5
347254	MA8EL	17:15:13 Mon 13-Dec-10	Sample	G0L110445-3
347254	MA8EN	17:18:57 Mon 13-Dec-10	Sample	G0L110445-4
347254	MA8EP	17:22:41 Mon 13-Dec-10	Sample	G0L110445-5
347254	MA8ER	17:26:25 Mon 13-Dec-10	Sample	G0L110445-6
	CCV 5	17:30:15 Mon 13-Dec-10	Sample	
	CCB 5	17:34:04 Mon 13-Dec-10	Sample	
	CCV 6	17:37:53 Mon 13-Dec-10	Sample	
	CCB 6	17:41:43 Mon 13-Dec-10	Sample	
347254	MA9E2B	17:45:29 Mon 13-Dec-10	Sample	G0L130000-254 BLK
347254	MA9E2C	17:49:15 Mon 13-Dec-10	Sample	G0L130000-254 LCS
347254	MA9E2L	17:52:59 Mon 13-Dec-10	Sample	G0L130000-254 LCSD

347254	MA8EJ	17:56:43 Mon 13-Dec-10	Sample	G0L110445-1
347254	MA8EJP5	18:00:25 Mon 13-Dec-10	Sample	G0L110445-1 5X
347254	MA8EJX	18:04:09 Mon 13-Dec-10	Sample	G0L110445-1 DU
347254	MA8EJZ	18:07:52 Mon 13-Dec-10	Sample	G0L110445-1 PS
347254	MA8EK	18:11:35 Mon 13-Dec-10	Sample	G0L110445-2
	CCV 7	18:15:24 Mon 13-Dec-10	Sample	
	CCB 7	18:19:13 Mon 13-Dec-10	Sample	
	CCV 8	18:23:02 Mon 13-Dec-10	Sample	
	CCB 8	18:26:51 Mon 13-Dec-10	Sample	
347255	MA9E7B	18:30:37 Mon 13-Dec-10	Sample	G0L130000-255 BLK
347255	MA9E7C	18:34:23 Mon 13-Dec-10	Sample	G0L130000-255 LCS
347255	MA9E7L	18:38:08 Mon 13-Dec-10	Sample	G0L130000-255 LCSD
347255	MAT82	18:41:54 Mon 13-Dec-10	Sample	G0L030531-1
347255	MAT82P5	18:45:39 Mon 13-Dec-10	Sample	G0L030531-1 5X
347255	MAT82Z	18:49:25 Mon 13-Dec-10	Sample	G0L030531-1 PS
347255	MAT83	18:53:11 Mon 13-Dec-10	Sample	G0L030531-2
347255	MAT84	18:56:58 Mon 13-Dec-10	Sample	G0L030531-3
347255	MAT85	19:00:43 Mon 13-Dec-10	Sample	G0L030531-4
	CCV 9	19:04:31 Mon 13-Dec-10	Sample	
	CCB 9	19:08:20 Mon 13-Dec-10	Sample	
	CCV 10	19:12:09 Mon 13-Dec-10	Sample	
	CCB 10	19:15:58 Mon 13-Dec-10	Sample	
347255	MAT86	19:19:42 Mon 13-Dec-10	Sample	G0L030531-5
347255	MAT87	19:23:25 Mon 13-Dec-10	Sample	G0L030531-6
347255	MAT88	19:27:09 Mon 13-Dec-10	Sample	G0L030531-7
347255	MAT89	19:30:52 Mon 13-Dec-10	Sample	G0L030531-8
	Rinse	19:34:41 Mon 13-Dec-10	Sample	
	ICSA	19:42:11 Mon 13-Dec-10	Sample	
	ICSAB	19:45:59 Mon 13-Dec-10	Sample	
	CCV 11	19:53:27 Mon 13-Dec-10	Sample	
	CCB 11	19:57:16 Mon 13-Dec-10	Sample	
	CCV 12	20:01:06 Mon 13-Dec-10	Sample	
	CCB 12	20:03:43 Mon 13-Dec-10	Sample	
	CCV 13	20:06:20 Mon 13-Dec-10	Sample	
	CCB 13	20:08:57 Mon 13-Dec-10	Sample	
344269	MA6PQB	20:11:31 Mon 13-Dec-10	Sample	G0L100000-269 BLK
344269	MA6PQC	20:14:04 Mon 13-Dec-10	Sample	G0L100000-269 LCS
344269	MA6PQL	20:16:35 Mon 13-Dec-10	Sample	G0L100000-269 LCSD
344269	MA11P	20:19:08 Mon 13-Dec-10	Sample	G0L080454-7
344269	MA11PP5	20:21:41 Mon 13-Dec-10	Sample	G0L080454-7 5X
344269	MA11PZ	20:24:14 Mon 13-Dec-10	Sample	G0L080454-7 PS
344269	MA12P	20:26:45 Mon 13-Dec-10	Sample	G0L080454-10
	CCV 14	20:29:21 Mon 13-Dec-10	Sample	
	CCB 14	20:31:58 Mon 13-Dec-10	Sample	





> cut down method



Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/13/10 15:02		☐
2	Blank				1.0	12/13/10 15:07		☐
3	Standard1				1.0	12/13/10 15:11		☐
4	ICV				1.0	12/13/10 15:14		☐
5	ICB				1.0	12/13/10 15:18		☐
6	LLSTD1				1.0	12/13/10 15:22		☐
7	LLSTD2				1.0	12/13/10 15:26		☐
8	ICSA				1.0	12/13/10 15:30		☐
9	ICSAB				1.0	12/13/10 15:33		☐
10	Rinse				1.0	12/13/10 15:41		☐
11	CCV 1				1.0	12/13/10 15:48		☐
12	CCB 1				1.0	12/13/10 15:52		☐
13	CCV 2				1.0	12/13/10 15:56		☐
14	CCB 2				1.0	12/13/10 16:00		☐
15	MA6P6B	G0L100000	0344278	2A	1.0	12/13/10 16:04		☐
16	MA6P6C	G0L100000	0344278	2A	1.0	12/13/10 16:07		☐
17	MA6P6L	G0L100000	0344278	2A	1.0	12/13/10 16:11		☐
18	MA59Q	G0L100456-1	0344278	2A	1.0	12/13/10 16:15		☐
19	MA59QP5	G0L100456	0344278		5.0	12/13/10 16:18		☐
20	MA59QX	G0L100456-1	0344278	2A	1.0	12/13/10 16:22		☐
21	MA59QZ	G0L100456-1	0344278		1.0	12/13/10 16:26		☐
22	MA59X	G0L100456-2	0344278	2A	1.0	12/13/10 16:30		☐
23	MA591	G0L100456-3	0344278	2A	1.0	12/13/10 16:33		☐
24	MA592	G0L100456-4	0344278	2A	1.0	12/13/10 16:37		☐
25	CCV 3				1.0	12/13/10 16:41		☐
26	CCB 3				1.0	12/13/10 16:45		☐
29	CCV 4				1.0	12/13/10 16:48		☐
30	CCB 4				1.0	12/13/10 16:52		☐
31	MA31M	G0L090441-1	0344278	2A	1.0	12/13/10 16:56		☐
32	MA31Q	G0L090441-2	0344278	2A	1.0	12/13/10 17:00		☐
33	MA31R	G0L090441-3	0344278	2A	1.0	12/13/10 17:03		☐
34	MA31T	G0L090441-4	0344278	2A	1.0	12/13/10 17:07		☐
35	MA31V	G0L090441-5	0344278	2A	1.0	12/13/10 17:11		☐
36	MA8EL	G0L110445-3	0347254	2A	1.0	12/13/10 17:15		☐
37	MA8EN	G0L110445-4	0347254	2A	1.0	12/13/10 17:18		☐
38	MA8EP	G0L110445-5	0347254	2A	1.0	12/13/10 17:22		☐
39	MA8ER	G0L110445-6	0347254	2A	1.0	12/13/10 17:26		☐
40	CCV 5				1.0	12/13/10 17:30		☐
41	CCB 5				1.0	12/13/10 17:34		☐
42	CCV 6				1.0	12/13/10 17:37		☐
43	CCB 6				1.0	12/13/10 17:41		☐
44	MA9E2B	G0L130000	0347254	2A	1.0	12/13/10 17:45		☐
45	MA9E2C	G0L130000	0347254	2A	1.0	12/13/10 17:49		☐
46	MA9E2L	G0L130000	0347254	2A	1.0	12/13/10 17:52		☐
47	MA8EJ	G0L110445-1	0347254	2A	1.0	12/13/10 17:56		☐
48	MA8EJP5	G0L110445	0347254		5.0	12/13/10 18:00		☐

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) | Instrument: M02 | Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst:** hargraves

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA8EJX	G0L110445-1	0347254	2A	1.0	12/13/10 18:04		☐
50	MA8EJZ	G0L110445-1	0347254		1.0	12/13/10 18:07		☐
51	MA8EK	G0L110445-2	0347254	2A	1.0	12/13/10 18:11		☐
52	CCV 7				1.0	12/13/10 18:15		☐
53	CCB 7				1.0	12/13/10 18:19		☐
54	CCV 8				1.0	12/13/10 18:23		☐
55	CCB 8				1.0	12/13/10 18:26		☐
56	MA9E7B	G0L130000	0347255	2A	1.0	12/13/10 18:30		☐
57	MA9E7C	G0L130000	0347255	2A	1.0	12/13/10 18:34		☐
58	MA9E7L	G0L130000	0347255	2A	1.0	12/13/10 18:38		☐
59	MAT82	G0L030531-1	0347255	2A	1.0	12/13/10 18:41		☐
60	MAT82P5	G0L030531	0347255		5.0	12/13/10 18:45		☐
61	MAT82Z	G0L030531-1	0347255		1.0	12/13/10 18:49		☐
62	MAT83	G0L030531-2	0347255	2A	1.0	12/13/10 18:53		☐
63	MAT84	G0L030531-3	0347255	2A	1.0	12/13/10 18:56		☐
64	MAT85	G0L030531-4	0347255	2A	1.0	12/13/10 19:00		☐
65	CCV 9				1.0	12/13/10 19:04		☐
66	CCB 9				1.0	12/13/10 19:08		☐
67	CCV 10				1.0	12/13/10 19:12		☐
68	CCB 10				1.0	12/13/10 19:15		☐
69	MAT86	G0L030531-5	0347255	2A	1.0	12/13/10 19:19		☐
70	MAT87	G0L030531-6	0347255	2A	1.0	12/13/10 19:23		☐
71	MAT88	G0L030531-7	0347255	2A	1.0	12/13/10 19:27		☐
72	MAT89	G0L030531-8	0347255	2A	1.0	12/13/10 19:30		☐
73	Rinse				1.0	12/13/10 19:34		☐
74	ICSA				1.0	12/13/10 19:42		☐
75	ICSAB				1.0	12/13/10 19:45		☐
76	CCV 11				1.0	12/13/10 19:53		☐
77	CCB 11				1.0	12/13/10 19:57		☐
78	CCV 12				1.0	12/13/10 20:01		☐
79	CCB 12				1.0	12/13/10 20:03		☐
80	CCV 13				1.0	12/13/10 20:06		☐
81	CCB 13				1.0	12/13/10 20:08		☐
82	MA6PQB	G0L100000	0344269	2A	1.0	12/13/10 20:11		☐
83	MA6PQC	G0L100000	0344269	2A	1.0	12/13/10 20:14		☐
84	MA6PQL	G0L100000	0344269	2A	1.0	12/13/10 20:16		☐
85	MA11P	G0L080454-7	0344269	2A	1.0	12/13/10 20:19		☐
86	MA11PP5	G0L080454	0344269		5.0	12/13/10 20:21		☐
87	MA11PZ	G0L080454-7	0344269		1.0	12/13/10 20:24		☐
88	MA12P	G0L080454-10	0344269	2A	1.0	12/13/10 20:26		☐
89	CCV 14				1.0	12/13/10 20:29		☐
90	CCB 14				1.0	12/13/10 20:31		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M02 (M02) | Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 2X	12/13/10 15:02	95.3	101.9	97.4	93.1	☐
2	Blank	12/13/10 15:07	100.0	100.0	100.0	100.0	☑
3	Standard1	12/13/10 15:11	100.3	98.5	108.0	96.6	☑
4	ICV	12/13/10 15:14	98.9	103.9	96.6	100.3	☑
5	ICB	12/13/10 15:18	97.1	103.0	98.1	92.5	☑
6	LLSTD1	12/13/10 15:22	98.4	104.7	98.9	93.5	☑
7	LLSTD2	12/13/10 15:26	101.0	102.5	102.8	101.8	☑
8	ICSA	12/13/10 15:30	88.7	86.7	89.2	77.9	☑
9	ICSAB	12/13/10 15:33	94.5	86.9	94.4	82.3	☑
10	Rinse	12/13/10 15:41	112.1	113.6	105.1	108.2	☑
11	CCV 1	12/13/10 15:48	112.8	111.5	105.0	105.3	☑
12	CCB 1	12/13/10 15:52	110.7	111.6	108.5	104.3	☑
13	CCV 2	12/13/10 15:56	112.7	110.1	114.3	104.6	☑
14	CCB 2	12/13/10 16:00	114.0	106.4	124.3	103.5	☑
15	MA6P6B	12/13/10 16:04	111.2	103.1	113.9	96.7	☑
16	MA6P6C	12/13/10 16:07	107.2	107.3	112.2	101.5	☑
17	MA6P6L	12/13/10 16:11	110.1	104.7	120.2	102.0	☑
18	MA59Q	12/13/10 16:15	109.5	101.8	123.0	93.1	☑
19	MA59QP5	12/13/10 16:18	109.6	106.6	126.7	98.6	☐
20	MA59QX	12/13/10 16:22	110.4	100.6	129.0	93.3	☑
21	MA59QZ	12/13/10 16:26	100.1	105.8	119.5	90.7	☑
22	MA59X	12/13/10 16:30	101.1	105.4	117.5	92.3	☑
23	MA591	12/13/10 16:33	104.5	103.6	125.5	86.4	☑
24	MA592	12/13/10 16:37	103.4	108.2	120.8	94.8	☑
25	CCV 3	12/13/10 16:41	110.6	99.5	147.2	92.3	☑
26	CCB 3	12/13/10 16:45	110.5	104.6	139.4	97.7	☑
29	CCV 4	12/13/10 16:48	101.2	97.6	104.1	98.9	☑
30	CCB 4	12/13/10 16:52	96.9	99.8	93.9	98.1	☑
31	MA31M	12/13/10 16:56	95.4	98.4	91.4	96.5	☑
32	MA31Q	12/13/10 17:00	100.1	95.3	97.9	96.0	☑
33	MA31R	12/13/10 17:03	99.3	96.0	93.2	96.1	☑
34	MA31T	12/13/10 17:07	97.8	97.0	93.3	90.2	☑
35	MA31V	12/13/10 17:11	100.4	96.6	98.1	96.7	☑
36	MA8EL	12/13/10 17:15	97.4	94.4	90.7	89.0	☑
37	MA8EN	12/13/10 17:18	95.3	100.1	87.5	87.2	☑
38	MA8EP	12/13/10 17:22	94.4	104.2	86.6	92.8	☑
39	MA8ER	12/13/10 17:26	103.1	100.1	96.3	101.0	☑
40	CCV 5	12/13/10 17:30	100.3	98.1	103.1	90.4	☑
41	CCB 5	12/13/10 17:34	100.4	102.2	101.5	88.5	☑
42	CCV 6	12/13/10 17:37	99.1	100.8	99.3	89.1	☑
43	CCB 6	12/13/10 17:41	99.5	104.4	98.9	89.3	☑
44	MA9E2B	12/13/10 17:45	101.3	95.5	96.0	95.0	☑
45	MA9E2C	12/13/10 17:49	98.9	94.3	97.8	95.6	☑
46	MA9E2L	12/13/10 17:52	95.8	94.9	96.3	95.8	☑
47	MA8EJ	12/13/10 17:56	98.5	93.0	96.3	92.5	☑
48	MA8EJP5	12/13/10 18:00	98.4	103.5	94.7	97.0	☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	MA8EJX	12/13/10 18:04	100.8	97.6	95.2	90.5	☑
50	MA8EJZ	12/13/10 18:07	97.1	90.6	94.9	90.3	☑
51	MA8EK	12/13/10 18:11	92.7	101.4	87.6	88.5	☑
52	CCV 7	12/13/10 18:15	101.6	91.5	104.1	92.2	☑
53	CCB 7	12/13/10 18:19	101.1	100.1	103.0	90.5	☑
54	CCV 8	12/13/10 18:23	96.4	103.3	94.4	91.5	☑
55	CCB 8	12/13/10 18:26	99.8	105.6	94.6	97.7	☑
56	MA9E7B	12/13/10 18:30	97.5	107.4	90.1	94.0	☑
57	MA9E7C	12/13/10 18:34	92.6	101.4	89.5	87.3	☑
58	MA9E7L	12/13/10 18:38	90.3	100.3	90.0	86.7	☑
59	MAT82	12/13/10 18:41	96.8	92.3	97.7	90.2	☑
60	MAT82P5	12/13/10 18:45	99.5	96.2	104.9	89.5	☐
61	MAT82Z	12/13/10 18:49	91.5	95.3	92.8	84.9	☑
62	MAT83	12/13/10 18:53	98.8	95.6	97.5	97.2	☑
63	MAT84	12/13/10 18:56	97.9	95.5	96.7	89.4	☑
64	MAT85	12/13/10 19:00	95.5	103.2	89.9	97.5	☑
65	CCV 9	12/13/10 19:04	99.7	101.9	97.1	99.5	☑
66	CCB 9	12/13/10 19:08	99.6	105.9	95.4	96.3	☑
67	CCV 10	12/13/10 19:12	102.4	100.2	101.5	99.9	☑
68	CCB 10	12/13/10 19:15	105.9	95.0	106.5	96.3	☑
69	MAT86	12/13/10 19:19	105.0	104.0	98.9	103.3	☑
70	MAT87	12/13/10 19:23	104.4	95.9	100.4	98.5	☑
71	MAT88	12/13/10 19:27	103.9	102.0	96.2	101.9	☑
72	MAT89	12/13/10 19:30	106.8	97.1	100.1	98.2	☑
73	Rinse	12/13/10 19:34	106.0	105.5	105.0	91.7	☑
74	ICSA	12/13/10 19:42	92.8	81.3	85.2	84.3	☑
75	ICSAB	12/13/10 19:45	89.1	85.2	74.8	77.1	☑
76	CCV 11	12/13/10 19:53	99.7	103.9	95.3	89.5	☑
77	CCB 11	12/13/10 19:57	105.6	102.3	100.5	102.2	☑
78	CCV 12	12/13/10 20:01	102.0				☑
79	CCB 12	12/13/10 20:03	107.7				☑
80	CCV 13	12/13/10 20:06	103.9				☑
81	CCB 13	12/13/10 20:08	107.0				☑
82	MA6PQB	12/13/10 20:11	103.6				☑
83	MA6PQC	12/13/10 20:14	98.2				☑
84	MA6PQL	12/13/10 20:16	98.8				☑
85	MA11P	12/13/10 20:19	94.4				☑
86	MA11PP5	12/13/10 20:21	98.4				☐
87	MA11PZ	12/13/10 20:24	96.2				☑
88	MA12P	12/13/10 20:26	95.4				☑
89	CCV 14	12/13/10 20:29	100.8				☑
90	CCB 14	12/13/10 20:31	103.5				☑

Quantitative Method Report

File Name: 0344269.mth
File Path: E:\elandata\Method\0344269.mth

Timing Parameters

Sweeps/Reading: 50
Readings/Replicate: 1
Number of Replicates: 3
Tuning File: default.tun
Optimization File: default.dac
QC Enabled: Yes
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode: Dual
Measurement Units: Counts

Report Date/Time: Tuesday, December 14, 2010 09:39:57

AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
Zn	67.925	-0.02 * Ba 136
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100			
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100			
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100			
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100			
In	114.904	Linear Thru Zero	ug/L	ug/L				

207.97	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	

TAL-W. SACRMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8

AIR TOX Standards - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 4075-25B

Internal standard: 4075-22C

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-21E

ICV: 4075-20D

ICSA: 4075-29A

ICSAB: 4075-28E

File Number: 101213A2

Instrument Tuning Report

File Name: default.tun

Sample Information

Sample Date/Time: Monday, December 13, 2010 13:50:04

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.926	1563	0.700	2041	
Be	9.012	8.978	2074	0.700	2030	
Mg	23.985	23.979	5724	0.708	1996	
Co	58.933	58.979	14272	0.719	1954	
In	114.904	114.879	27914	0.717	1937	
Ce	139.905	139.828	33976	0.717	1986	
Tl	204.975	204.979	49706	0.727	2189	
Pb	207.977	207.979	50424	0.714	2208	
U	238.050	238.027	57636	0.723	2359	

Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize
File Name e:\elandata\Optimize\default.dac

Sample Information

Sample Date/Time: Monday, December 13, 2010 13:50:04
Sample ID: TUNE SHARGRAVE

Parameter Settings

Nebulizer Gas Flow	0.92
Lens Voltage	9.00
ICP RF Power	1100.00
Analog Stage Voltage	-2000.00
Pulse Stage Voltage	1350.00
Discriminator Threshold	70.00
AC Rod Offset	-7.00
Service DAC 1	60.00
Quadrupole Rod Offset	0.00

AutoLens Calibration

Date:	13:52:48 Mon 13-Dec-10
Sample Filename:	AUTOLENS SHARGRAVE.002
Dataset Pathname:	101213a2\
Lens Voltage Start:	5.50
Lens Voltage End:	10.00
Lens Voltage Step:	0.25
Slope:	0.02127028
Intercept:	6.78688819

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	7.0	4416.6	19
Co	58.933	8.0	83026.4	19
In	114.904	9.3	279440.3	19

Dual Detector Calibration

Date:	08:01:56 Tue 07-Dec-10
Sample Filename:	DAILY SHARGRAVE.1097
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Vol Start:	-3.00
Lens Vol End:	15.00
Lens Vol Step:	0.50

Analyte	Mass	Gain	N(max)
Li	6.015	10129.15	1235998078.193
Li	7.016	9449.89	1324842000.392
Be	9.012	8857.80	1413399228.860
B	11.009	9146.06	1368852249.810

Na	22.990	9118.55	1372981536.992
Mg	23.985	8534.23	1466986957.713
Mg	24.986	8369.25	1495905758.665
Al	26.982	7911.93	1582369824.835
Si	27.977	8973.22	1395219571.285
P	30.994	7287.08	1718055165.115
K	38.964	7100.33	1763243847.627
Ca	42.959		
Ca	43.956	6971.61	1795798956.472
Sc	44.956	7080.85	1768093466.146
V	50.944	6876.33	1820682362.555
Cr	51.941	6628.40	1888781365.139
Fe	53.940	6525.67	1918515148.090
Mn	54.938	6554.76	1910002204.770
Fe	56.935	6424.60	1948697279.431
Co	58.933	6269.19	1997004380.979
Ni	59.933	6081.55	2058620450.330
Cu	62.930	5973.72	2095780633.374
Cu	64.928	5888.17	2126231105.985
Zn	67.925	5952.75	2103161748.568
Ge	71.922	6127.47	2043191900.987
As	74.922	6124.98	2044023708.276
Se	77.917	6122.66	2044797442.453
Br	78.918		
Se	81.917	6050.71	2069114669.712
Sr	87.906		
Mo	96.906	6128.33	2042906515.828
Ag	106.905	5534.60	2262061270.648
Ag	108.905	5536.88	2261130679.220
Cd	110.904	5626.11	2225268192.020
Cd	113.904	5627.50	2224719836.750
In	114.904	5658.70	2212451551.812
Sn	117.902	5649.45	2216076556.491
Sb	120.904	5651.19	2215394633.559
Ba	134.906	5526.61	2265330490.437
Ho	164.930		
Tm	168.934	5351.68	2339377359.067
Tl	204.975	5104.08	2452862601.143
Pb	207.977	5100.71	2454483234.194
U	238.050	5062.74	2472892833.787

Daily Performance Report

Sample ID: DAILY SHARGRAVE
Sample Date/Time: Monday, December 13, 2010 14:55:08
Sample Description:
Sample File:
Method File: E:\elandata\Method\000daily.mth
Dataset File: e:\elandata\dataset\101213a2\DAILY SHARGRAVE.006
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: e:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. RSD
	Mg	24	42977.359	1.141
	Rh	103	206473.607	0.610
	Pb	208	240746.490	0.711
⌈>	Ba	138	270503.787	0.689
⌊	Ba++	69	0.012	1.037
⌈>	Ce	140	339440.785	0.476
⌊	CeO	156	0.027	5.161
	Bkgd	220	1.429	70.711
	Li	7	15343.510	0.985
	Be	9	4507.117	1.391
	Co	59	82568.428	0.728
	In	115	310371.868	0.401
	Tl	205	324809.672	0.434

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Rinse 2X
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:02:59
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\Rinse 2X.007
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			639643.026	ug/L	0.000
>	6	Li-1			486615.740	ug/L	0.000
	9	Be			3.667	ug/L	0.000
	27	Al			108338.242	ug/L	0.000
	44	Ca			10638.218	ug/L	0.000
	52	Cr			10845.923	ug/L	0.000
	55	Mn			3569.001	ug/L	0.000
	59	Co			50.667	ug/L	0.000
	60	Ni			136.413	ug/L	0.000
	65	Cu			244.519	ug/L	0.000
	68	Zn			2597.271	ug/L	0.000
	75	As			8024.409	ug/L	0.000
>	72	Ge-1			669795.135	ug/L	0.000
	111	Cd			16.925	ug/L	0.000
	121	Sb			182.003	ug/L	0.000
	135	Ba			130.668	ug/L	0.000
>	115	In-1			782743.741	ug/L	0.000
	208	Pb			615.345	ug/L	0.000
>	169	Tm-1			861007.451	ug/L	0.000
	50	Cr			-45.418	ug/L	0.000
	53	Cr			8847.535	ug/L	0.000
	61	Ni			512.725	ug/L	0.000
	63	Cu			130.337	ug/L	0.000
	67	Zn			965.538	ug/L	0.000
	66	Zn			1208.988	ug/L	0.000
>	72	Ge			669795.135	ug/L	0.000
	108	Cd			1.619	ug/L	0.000
	114	Cd			48.032	ug/L	0.000
>	115	In			782743.741	ug/L	0.000
	208	207.977			321.675	ug/L	0.000
	207	Pb			131.001	ug/L	0.000
	206	Pb			162.669	ug/L	0.000
>	169	Tm			861007.451	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45
>	Li-1	6
	Be	9
	Al	27
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
>	Ge-1	72
	Cd	111
	Sb	121
	Ba	135
>	In-1	115
	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
	Cd	108
	Cd	114
>	In	115
	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:07:04
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\Blank.008
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			634495.074	ug/L	
>	6	Li-1			499505.610	ug/L	
	9	Be			0.667	ug/L	
	27	Al			8009.375	ug/L	
	44	Ca			9912.717	ug/L	
	52	Cr			10115.388	ug/L	
	55	Mn			632.031	ug/L	
	59	Co			18.333	ug/L	
	60	Ni			55.402	ug/L	
	65	Cu			115.857	ug/L	
	68	Zn			278.285	ug/L	
	75	As			8942.548	ug/L	
>	72	Ge-1			702479.912	ug/L	
	111	Cd			16.327	ug/L	
	121	Sb			159.002	ug/L	
	135	Ba			105.668	ug/L	
>	115	In-1			768495.822	ug/L	
	208	Pb			195.001	ug/L	
>	169	Tm-1			924836.015	ug/L	
	50	Cr			-24.595	ug/L	
	53	Cr			7591.993	ug/L	
	61	Ni			555.068	ug/L	
	63	Cu			33.334	ug/L	
	67	Zn			753.793	ug/L	
	66	Zn			109.336	ug/L	
>	72	Ge			702479.912	ug/L	
	108	Cd			-2.258	ug/L	
	114	Cd			31.408	ug/L	
>	115	In			768495.822	ug/L	
	208	207.977			112.001	ug/L	
	207	Pb			40.000	ug/L	
	206	Pb			43.000	ug/L	
>	169	Tm			924836.015	ug/L	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45
⌈>	Li-1	6
⌊	Be	9
⌈	Al	27
|	Ca	44
|	Cr	52
|	Mn	55
|	Co	59
|	Ni	60
|	Cu	65
|	Zn	68
|	As	75
⌊>	Ge-1	72
⌈	Cd	111
|	Sb	121
|	Ba	135
⌊>	In-1	115
⌈	Pb	208
⌊>	Tm-1	169
⌈	Cr	50
|	Cr	53
|	Ni	61
|	Cu	63
|	Zn	67
|	Zn	66
⌊>	Ge	72
⌈	Cd	108
|	Cd	114
⌊>	In	115
⌈	207.977	208
|	Pb	207
|	Pb	206
⌊>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:11:05
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\Standard 1.009
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			675374.458	ug/L	634495.074
>	6	Li-1			539514.445	ug/L	499505.610
	9	Be	100.000000	3.963	28403.588	ug/L	0.667
	27	Al	5100.000000	1.999	19674881.781	ug/L	8009.375
	44	Ca	5100.000000	2.110	829089.129	ug/L	9912.717
	52	Cr	100.000000	2.151	564833.277	ug/L	10115.388
	55	Mn	100.000000	1.952	918228.016	ug/L	632.031
	59	Co	100.000000	1.652	646251.847	ug/L	18.333
	60	Ni	100.000000	1.913	132762.586	ug/L	55.402
	65	Cu	100.000000	1.561	143018.231	ug/L	115.857
	68	Zn	100.000000	2.519	54937.705	ug/L	278.285
	75	As	100.000000	2.370	149412.422	ug/L	8942.548
>	72	Ge-1			704363.196	ug/L	702479.912
	111	Cd	100.000000	2.360	148357.376	ug/L	16.327
	121	Sb	50.000000	2.681	249344.294	ug/L	159.002
	135	Ba	100.000000	3.044	157053.960	ug/L	105.668
>	115	In-1			757063.955	ug/L	768495.822
	208	Pb	100.000000	2.509	2896721.400	ug/L	195.001
>	169	Tm-1			893563.419	ug/L	924836.015
	50	Cr	100.000000	1.728	13987.303	ug/L	-24.595
	53	Cr	100.000000	2.577	32748.643	ug/L	7591.993
	61	Ni	100.000000	6.398	2712.954	ug/L	555.068
	63	Cu	100.000000	2.069	103433.682	ug/L	33.334
	67	Zn	100.000000	3.454	5482.607	ug/L	753.793
	66	Zn	100.000000	1.801	27846.229	ug/L	109.336
>	72	Ge			704363.196	ug/L	702479.912
	108	Cd	100.000000	3.056	10151.703	ug/L	-2.258
	114	Cd	100.000000	2.603	345600.235	ug/L	31.408
>	115	In			757063.955	ug/L	768495.822
	208	207.977	100.000000	2.583	1527666.530	ug/L	112.001
	207	Pb	100.000000	2.585	608380.640	ug/L	40.000
	206	Pb	100.000000	2.334	760674.230	ug/L	43.000
>	169	Tm			893563.419	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45
>	Li-1	6
	Be	9
	Al	27
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
>	Ge-1	72
	Cd	111
	Sb	121
	Ba	135
>	In-1	115
	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
	Cd	108
	Cd	114
>	In	115
	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:14:48
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\ICV .010
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			655886.778	ug/L	634495.074
>	6	Li-1			482471.197	ug/L	499505.610
	9	Be	79.706131	2.080	20254.851	ug/L	0.667
	27	Al	1012.110635	1.381	3859099.146	ug/L	8009.375
	44	Ca	785.341766	1.344	134277.596	ug/L	9912.717
	52	Cr	80.263604	0.831	449340.179	ug/L	10115.388
	55	Mn	82.220179	0.608	745093.616	ug/L	632.031
	59	Co	81.718961	0.619	521127.582	ug/L	18.333
	60	Ni	82.388987	0.535	107946.853	ug/L	55.402
	65	Cu	81.303236	0.187	114765.491	ug/L	115.857
	68	Zn	89.270573	0.366	48429.096	ug/L	278.285
	75	As	77.826283	0.627	116700.871	ug/L	8942.548
>	72	Ge-1			695023.077	ug/L	702479.912
	111	Cd	74.618708	0.969	116739.837	ug/L	16.327
	121	Sb	37.074226	1.771	194994.527	ug/L	159.002
	135	Ba	76.528524	0.689	126775.708	ug/L	105.668
>	115	In-1			798116.431	ug/L	768495.822
	208	Pb	74.043446	0.241	2227118.284	ug/L	195.001
>	169	Tm-1			927660.125	ug/L	924836.015
	50	Cr	66.780444	2.898	9206.562	ug/L	-24.595
	53	Cr	77.298816	0.082	26685.429	ug/L	7591.993
	61	Ni	85.017022	5.046	2359.226	ug/L	555.068
	63	Cu	82.098331	0.302	83806.690	ug/L	33.334
	67	Zn	85.525934	1.002	4735.596	ug/L	753.793
	66	Zn	89.919673	0.806	24721.751	ug/L	109.336
>	72	Ge			695023.077	ug/L	702479.912
	108	Cd	71.930667	0.939	7700.245	ug/L	-2.258
	114	Cd	76.235184	0.435	277850.247	ug/L	31.408
>	115	In			798116.431	ug/L	768495.822
	208	207.977	74.450763	0.224	1180990.561	ug/L	112.001
	207	Pb	77.968256	0.599	492527.069	ug/L	40.000
	206	Pb	70.086454	0.487	553600.654	ug/L	43.000
>	169	Tm			927660.125	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	96.590
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	98.938
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.854
	Pb	208	
>	Tm-1	169	100.305
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	98.938
	Cd	108	
	Cd	114	
>	In	115	103.854
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.305

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:18:37
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\ICB.011
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			656236.579	ug/L	634495.074
[>	6	Li-1			489874.547	ug/L	499505.610
[	9	Be	0.002622	223.520	1.333	ug/L	0.667
[	27	Al	0.130572	30.434	8268.369	ug/L	8009.375
[	44	Ca	0.012615	12102.686	9631.620	ug/L	9912.717
[	52	Cr	0.284979	55.160	11358.500	ug/L	10115.388
[	55	Mn	0.023176	18.466	820.053	ug/L	632.031
[	59	Co	0.004821	49.990	48.000	ug/L	18.333
[	60	Ni	0.007764	169.713	63.785	ug/L	55.402
[	65	Cu	-0.003037	292.692	108.353	ug/L	115.857
[	68	Zn	-0.053953	137.530	241.757	ug/L	278.285
[	75	As	0.101337	108.558	8824.832	ug/L	8942.548
[>	72	Ge-1			682404.574	ug/L	702479.912
[	111	Cd	0.001082	75.761	18.505	ug/L	16.327
[	121	Sb	0.197229	15.549	1192.780	ug/L	159.002
[	135	Ba	-0.004217	180.300	102.001	ug/L	105.668
[>	115	In-1			791621.460	ug/L	768495.822
[	208	Pb	0.002144	35.262	240.002	ug/L	195.001
[>	169	Tm-1			855899.160	ug/L	924836.015
[	50	Cr	-0.197800	48.335	-50.747	ug/L	-24.595
[	53	Cr	6.237961	10.655	8894.374	ug/L	7591.993
[	61	Ni	-1.540308	136.157	507.057	ug/L	555.068
[	63	Cu	0.005269	133.421	37.667	ug/L	33.334
[	67	Zn	-0.658538	136.759	702.109	ug/L	753.793
[	66	Zn	-0.075213	48.419	86.002	ug/L	109.336
[>	72	Ge			682404.574	ug/L	702479.912
[	108	Cd	-0.018821	221.610	-4.295	ug/L	-2.258
[	114	Cd	0.002403	32.985	41.035	ug/L	31.408
[>	115	In			791621.460	ug/L	768495.822
[	208	207.977	0.001752	44.100	129.335	ug/L	112.001
[	207	Pb	0.003141	17.769	55.334	ug/L	40.000
[	206	Pb	0.002132	48.389	55.334	ug/L	43.000
[>	169	Tm			855899.160	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	98.072
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	97.142
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.009
	Pb	208	
>	Tm-1	169	92.546
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.142
	Cd	108	
	Cd	114	
>	In	115	103.009
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.546

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: LLSTD1
Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:22:26
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\LLSTD1.012
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 71
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			666710.352	ug/L	634495.074
[>	6	Li-1			493790.449	ug/L	499505.610
[	9	Be	1.017607	4.482	265.339	ug/L	0.667
[	27	Al	47.338967	0.246	187077.351	ug/L	8009.375
[	44	Ca	49.278199	1.501	17525.099	ug/L	9912.717
[	52	Cr	1.244633	8.846	16732.321	ug/L	10115.388
[	55	Mn	1.065927	1.212	10222.872	ug/L	632.031
[	59	Co	1.009055	0.437	6418.902	ug/L	18.333
[	60	Ni	0.990226	1.886	1344.403	ug/L	55.402
[	65	Cu	1.010114	1.800	1530.863	ug/L	115.857
[	68	Zn	5.782252	2.641	3376.340	ug/L	278.285
[	75	As	0.961754	22.364	10126.055	ug/L	8942.548
[>	72	Ge-1			691350.834	ug/L	702479.912
[	111	Cd	0.950739	2.289	1516.316	ug/L	16.327
[	121	Sb	0.523634	1.277	2941.013	ug/L	159.002
[	135	Ba	0.926020	3.638	1655.549	ug/L	105.668
[>	115	In-1			804683.109	ug/L	768495.822
[	208	Pb	0.981734	0.527	27704.476	ug/L	195.001
[>	169	Tm-1			864678.158	ug/L	924836.015
[	50	Cr	1.444061	34.129	174.401	ug/L	-24.595
[	53	Cr	7.695159	17.813	9370.965	ug/L	7591.993
[	61	Ni	-1.395313	122.547	516.726	ug/L	555.068
[	63	Cu	1.020036	4.380	1068.251	ug/L	33.334
[	67	Zn	5.165149	12.103	981.545	ug/L	753.793
[	66	Zn	5.475878	1.423	1598.562	ug/L	109.336
[>	72	Ge			691350.834	ug/L	702479.912
[	108	Cd	0.951802	7.481	100.409	ug/L	-2.258
[	114	Cd	0.934808	3.244	3466.859	ug/L	31.408
[>	115	In			804683.109	ug/L	768495.822
[	208	207.977	1.014046	0.454	15097.222	ug/L	112.001
[	207	Pb	1.017024	2.031	6025.185	ug/L	40.000
[	206	Pb	0.888620	0.324	6582.069	ug/L	43.000
[>	169	Tm			864678.158	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	98.856
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	98.416
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	104.709
	Pb	208	
>	Tm-1	169	93.495
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	98.416
	Cd	108	
	Cd	114	
>	In	115	104.709
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.495

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:26:14
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\LLSTD2.013
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 72
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			654303.172	ug/L	634495.074
>	6	Li-1			513335.637	ug/L	499505.610
	9	Be	1.952552	1.612	528.689	ug/L	0.667
	27	Al	89.355026	0.253	355197.952	ug/L	8009.375
	44	Ca	92.750269	2.076	25020.105	ug/L	9912.717
	52	Cr	2.064883	4.767	21754.474	ug/L	10115.388
	55	Mn	1.962122	1.563	18773.320	ug/L	632.031
	59	Co	1.959991	0.771	12776.814	ug/L	18.333
	60	Ni	1.946918	1.539	2658.594	ug/L	55.402
	65	Cu	1.967723	0.824	2949.415	ug/L	115.857
	68	Zn	10.416233	1.146	6016.024	ug/L	278.285
	75	As	2.046336	14.980	11924.036	ug/L	8942.548
>	72	Ge-1			709467.139	ug/L	702479.912
	111	Cd	1.828947	2.209	2839.487	ug/L	16.327
	121	Sb	0.968558	1.537	5185.112	ug/L	159.002
	135	Ba	1.871015	1.447	3163.453	ug/L	105.668
>	115	In-1			787366.623	ug/L	768495.822
	208	Pb	1.870248	0.779	57293.217	ug/L	195.001
>	169	Tm-1			941555.751	ug/L	924836.015
	50	Cr	2.950244	16.125	391.665	ug/L	-24.595
	53	Cr	8.021463	5.068	9697.981	ug/L	7591.993
	61	Ni	2.388750	31.827	612.416	ug/L	555.068
	63	Cu	2.024925	1.293	2142.676	ug/L	33.334
	67	Zn	10.872514	9.818	1279.027	ug/L	753.793
	66	Zn	9.942778	0.246	2888.501	ug/L	109.336
>	72	Ge			709467.139	ug/L	702479.912
	108	Cd	1.877617	5.946	196.017	ug/L	-2.258
	114	Cd	1.850281	1.429	6683.997	ug/L	31.408
>	115	In			787366.623	ug/L	768495.822
	208	207.977	1.895758	1.094	30635.243	ug/L	112.001
	207	Pb	1.959263	0.897	12602.802	ug/L	40.000
	206	Pb	1.747824	0.122	14055.172	ug/L	43.000
>	169	Tm			941555.751	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	102.769
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.995
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.456
	Pb	208	
>	Tm-1	169	101.808
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.995
	Cd	108	
	Cd	114	
>	In	115	102.456
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.808

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:30:02
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\ICSA .014
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			592750.329	ug/L	634495.074
>	6	Li-1			445576.043	ug/L	499505.610
	9	Be	0.038664	7.218	9.667	ug/L	0.667
	27	Al	92697.287751	0.301	316233984.920	ug/L	8009.375
	44	Ca	94994.675288	0.998	13506665.942	ug/L	9912.717
	52	Cr	4.134919	0.724	29261.791	ug/L	10115.388
	55	Mn	6.412859	0.666	52614.957	ug/L	632.031
	59	Co	1.694115	0.171	9701.056	ug/L	18.333
	60	Ni	1.282649	13.100	1554.574	ug/L	55.402
	65	Cu	-1.361729	2.160	-1618.526	ug/L	115.857
	68	Zn	4.537775	2.822	2441.203	ug/L	278.285
	75	As	0.656111	14.543	8746.151	ug/L	8942.548
>	72	Ge-1			623044.804	ug/L	702479.912
	111	Cd	0.784220	4.981	1038.240	ug/L	16.327
	121	Sb	0.240727	0.830	1194.445	ug/L	159.002
	135	Ba	2.641733	1.944	3742.767	ug/L	105.668
>	115	In-1			666530.969	ug/L	768495.822
	208	Pb	0.551892	1.394	13048.281	ug/L	195.001
>	169	Tm-1			720788.348	ug/L	924836.015
	50	Cr	249.698709	6.855	30930.839	ug/L	-24.595
	53	Cr	31.105356	4.877	13649.208	ug/L	7591.993
	61	Ni	25.604416	3.491	980.878	ug/L	555.068
	63	Cu	2.894468	1.469	2677.243	ug/L	33.334
	67	Zn	17.379147	3.721	1395.428	ug/L	753.793
	66	Zn	7.975872	3.852	2054.262	ug/L	109.336
>	72	Ge			623044.804	ug/L	702479.912
	108	Cd	42.142657	4.823	3765.842	ug/L	-2.258
	114	Cd	2.820394	4.474	8608.178	ug/L	31.408
>	115	In			666530.969	ug/L	768495.822
	208	207.977	0.559142	2.047	6978.158	ug/L	112.001
	207	Pb	0.565500	4.631	2805.952	ug/L	40.000
	206	Pb	0.526450	0.390	3264.170	ug/L	43.000
>	169	Tm			720788.348	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	89.203
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	88.692
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	86.732
	Pb	208	
>	Tm-1	169	77.937
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	88.692
	Cd	108	
	Cd	114	
>	In	115	86.732
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	77.937

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:33:49
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\ICSAB.015
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			596009.293	ug/L	634495.074
>	6	Li-1			471467.677	ug/L	499505.610
	9	Be	97.010348	2.549	24080.480	ug/L	0.667
	27	Al	88831.938373	1.471	322869706.141	ug/L	8009.375
	44	Ca	88127.179693	1.446	13349886.730	ug/L	9912.717
	52	Cr	96.276401	1.094	512875.795	ug/L	10115.388
	55	Mn	96.375199	0.667	834053.800	ug/L	632.031
	59	Co	92.887086	0.773	565750.220	ug/L	18.333
	60	Ni	90.702299	0.986	113495.962	ug/L	55.402
	65	Cu	84.243116	0.911	113567.075	ug/L	115.857
	68	Zn	89.038381	0.515	46132.894	ug/L	278.285
	75	As	97.948946	1.088	138095.505	ug/L	8942.548
>	72	Ge-1			663809.423	ug/L	702479.912
	111	Cd	90.987969	0.836	119114.101	ug/L	16.327
	121	Sb	47.909121	0.644	210837.836	ug/L	159.002
	135	Ba	104.478515	1.708	144792.515	ug/L	105.668
>	115	In-1			667854.393	ug/L	768495.822
	208	Pb	107.057832	1.126	2640528.226	ug/L	195.001
>	169	Tm-1			760769.390	ug/L	924836.015
	50	Cr	343.091017	2.701	45274.733	ug/L	-24.595
	53	Cr	109.924513	1.340	33214.957	ug/L	7591.993
	61	Ni	118.211291	1.796	2927.551	ug/L	555.068
	63	Cu	87.594942	1.510	85395.564	ug/L	33.334
	67	Zn	101.350232	1.045	5228.006	ug/L	753.793
	66	Zn	94.072649	0.567	24696.121	ug/L	109.336
>	72	Ge			663809.423	ug/L	702479.912
	108	Cd	131.498807	2.394	11781.331	ug/L	-2.258
	114	Cd	92.807664	0.776	283034.930	ug/L	31.408
>	115	In			667854.393	ug/L	768495.822
	208	207.977	106.297349	1.320	1382644.241	ug/L	112.001
	207	Pb	107.169713	0.629	555179.011	ug/L	40.000
	206	Pb	108.495597	1.211	702704.974	ug/L	43.000
>	169	Tm			760769.390	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	94.387
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.495
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	86.904
	Pb	208	
>	Tm-1	169	82.260
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.495
	Cd	108	
	Cd	114	
>	In	115	86.904
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	82.260

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:41:18
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\Rinse.016
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			767638.748	ug/L	634495.074
>	6	Li-1			525126.296	ug/L	499505.610
	9	Be	0.010994	101.558	3.667	ug/L	0.667
	27	Al	28.806740	0.485	133132.993	ug/L	8009.375
	44	Ca	12.677028	4.815	13384.397	ug/L	9912.717
	52	Cr	1.613854	5.870	21343.094	ug/L	10115.388
	55	Mn	0.382593	0.252	4632.019	ug/L	632.031
	59	Co	0.006521	7.007	67.667	ug/L	18.333
	60	Ni	0.063191	4.979	155.844	ug/L	55.402
	65	Cu	0.093840	6.101	279.723	ug/L	115.857
	68	Zn	4.409647	3.671	3005.255	ug/L	278.285
	75	As	0.813117	26.350	11297.644	ug/L	8942.548
>	72	Ge-1			787179.816	ug/L	702479.912
	111	Cd	0.004065	118.984	25.516	ug/L	16.327
	121	Sb	0.001909	161.096	191.670	ug/L	159.002
	135	Ba	0.025355	55.030	166.002	ug/L	105.668
>	115	In-1			873050.945	ug/L	768495.822
	208	Pb	0.014093	5.663	668.347	ug/L	195.001
>	169	Tm-1			1000653.578	ug/L	924836.015
	50	Cr	-0.424913	22.848	-94.160	ug/L	-24.595
	53	Cr	34.378747	4.416	18162.626	ug/L	7591.993
	61	Ni	10.575399	29.540	876.837	ug/L	555.068
	63	Cu	0.102041	8.120	155.339	ug/L	33.334
	67	Zn	7.190743	14.383	1224.664	ug/L	753.793
	66	Zn	4.196977	1.357	1423.779	ug/L	109.336
>	72	Ge			787179.816	ug/L	702479.912
	108	Cd	0.053694	75.331	3.705	ug/L	-2.258
	114	Cd	0.005618	6.424	58.071	ug/L	31.408
>	115	In			873050.945	ug/L	768495.822
	208	207.977	0.013407	6.190	350.676	ug/L	112.001
	207	Pb	0.015816	4.408	151.002	ug/L	40.000
	206	Pb	0.014093	13.373	166.669	ug/L	43.000
>	169	Tm			1000653.578	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	105.129
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	112.057
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	113.605
	Pb	208	
>	Tm-1	169	108.198
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	112.057
	Cd	108	
	Cd	114	
>	In	115	113.605
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	108.198

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:48:48
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 1.017
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			760349.663	ug/L	634495.074
>	6	Li-1			524523.940	ug/L	499505.610
	9	Be	107.011004	2.206	29558.157	ug/L	0.667
	27	Al	4924.035653	0.635	21365714.592	ug/L	8009.375
	44	Ca	5075.970415	1.052	928155.314	ug/L	9912.717
	52	Cr	105.279455	0.820	668225.228	ug/L	10115.388
	55	Mn	104.073593	0.575	1074790.234	ug/L	632.031
	59	Co	105.166328	0.585	764396.440	ug/L	18.333
	60	Ni	106.155878	0.511	158509.729	ug/L	55.402
	65	Cu	103.750768	1.386	166877.083	ug/L	115.857
	68	Zn	100.121992	1.146	61865.988	ug/L	278.285
	75	As	99.275372	1.150	166891.088	ug/L	8942.548
>	72	Ge-1			792144.598	ug/L	702479.912
	111	Cd	95.105430	1.596	159787.538	ug/L	16.327
	121	Sb	49.094558	1.553	277278.465	ug/L	159.002
	135	Ba	101.957700	2.267	181340.614	ug/L	105.668
>	115	In-1			857215.164	ug/L	768495.822
	208	Pb	94.362112	1.752	2980238.796	ug/L	195.001
>	169	Tm-1			974094.308	ug/L	924836.015
	50	Cr	108.767219	0.910	17111.662	ug/L	-24.595
	53	Cr	118.684409	2.602	42114.046	ug/L	7591.993
	61	Ni	112.274388	2.093	3349.467	ug/L	555.068
	63	Cu	104.977173	0.913	122124.520	ug/L	33.334
	67	Zn	102.183129	1.693	6283.007	ug/L	753.793
	66	Zn	101.460440	0.890	31775.598	ug/L	109.336
>	72	Ge			792144.598	ug/L	702479.912
	108	Cd	93.308123	0.783	10728.877	ug/L	-2.258
	114	Cd	96.185876	0.590	376503.688	ug/L	31.408
>	115	In			857215.164	ug/L	768495.822
	208	207.977	91.723880	1.605	1527775.192	ug/L	112.001
	207	Pb	95.576305	1.843	633979.023	ug/L	40.000
	206	Pb	98.689269	1.959	818484.581	ug/L	43.000
>	169	Tm			974094.308	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	105.009
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	112.764
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	111.545
	Pb	208	
>	Tm-1	169	105.326
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	112.764
	Cd	108	
	Cd	114	
>	In	115	111.545
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	105.326

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:52:38
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 1.018
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			768239.032	ug/L	634495.074
>	6	Li-1			541769.208	ug/L	499505.610
	9	Be	0.004430	75.895	2.000	ug/L	0.667
	27	Al	0.381696	17.165	10487.637	ug/L	8009.375
	44	Ca	3.202438	33.896	11539.122	ug/L	9912.717
	52	Cr	1.230453	9.283	18728.207	ug/L	10115.388
	55	Mn	0.031008	13.038	1013.748	ug/L	632.031
	59	Co	0.002157	11.393	35.667	ug/L	18.333
	60	Ni	0.001351	352.198	63.260	ug/L	55.402
	65	Cu	0.005893	290.242	137.662	ug/L	115.857
	68	Zn	-0.025820	280.553	292.447	ug/L	278.285
	75	As	0.718049	46.274	11009.439	ug/L	8942.548
>	72	Ge-1			777466.866	ug/L	702479.912
	111	Cd	0.002309	94.470	22.123	ug/L	16.327
	121	Sb	-0.006479	48.530	141.002	ug/L	159.002
	135	Ba	0.002281	91.139	122.001	ug/L	105.668
>	115	In-1			857935.114	ug/L	768495.822
	208	Pb	0.002206	15.816	272.336	ug/L	195.001
>	169	Tm-1			964317.345	ug/L	924836.015
	50	Cr	-0.207347	59.532	-59.182	ug/L	-24.595
	53	Cr	19.004832	10.851	13673.040	ug/L	7591.993
	61	Ni	6.608460	27.851	771.464	ug/L	555.068
	63	Cu	-0.001651	370.154	35.000	ug/L	33.334
	67	Zn	2.394716	45.302	959.536	ug/L	753.793
	66	Zn	-0.045700	93.799	107.003	ug/L	109.336
>	72	Ge			777466.866	ug/L	702479.912
	108	Cd	0.014560	183.537	-0.863	ug/L	-2.258
	114	Cd	0.002167	139.821	43.570	ug/L	31.408
>	115	In			857935.114	ug/L	768495.822
	208	207.977	0.001505	34.550	141.668	ug/L	112.001
	207	Pb	0.002838	7.287	60.334	ug/L	40.000
	206	Pb	0.003107	24.036	70.334	ug/L	43.000
>	169	Tm			964317.345	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
⌈>	Li-1	6	108.461
⌊	Be	9	
⌈	Al	27	
|	Ca	44	
|	Cr	52	
|	Mn	55	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	110.675
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	111.638
⌈	Pb	208	
⌊>	Tm-1	169	104.269
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	110.675
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	111.638
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	104.269

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 15:56:27
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 2.019
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			763310.760	ug/L	634495.074
[>	6	Li-1			571125.166	ug/L	499505.610
[	9	Be	102.551756	1.734	30845.923	ug/L	0.667
[	27	Al	4983.394342	1.648	21614079.555	ug/L	8009.375
[	44	Ca	5090.732757	2.527	930352.422	ug/L	9912.717
[	52	Cr	103.166440	1.996	654741.801	ug/L	10115.388
[	55	Mn	102.445395	1.335	1057556.069	ug/L	632.031
[	59	Co	102.742474	1.020	746513.042	ug/L	18.333
[	60	Ni	103.920286	1.518	155106.832	ug/L	55.402
[	65	Cu	103.166422	0.921	165882.245	ug/L	115.857
[	68	Zn	100.734209	0.605	62224.815	ug/L	278.285
[	75	As	98.054672	0.492	164917.119	ug/L	8942.548
[>	72	Ge-1			791945.592	ug/L	702479.912
[	111	Cd	94.397444	1.080	156612.855	ug/L	16.327
[	121	Sb	49.406399	0.850	275547.602	ug/L	159.002
[	135	Ba	101.130448	1.155	177628.631	ug/L	105.668
[>	115	In-1			846422.040	ug/L	768495.822
[	208	Pb	93.379699	1.676	2930261.744	ug/L	195.001
[>	169	Tm-1			967826.047	ug/L	924836.015
[	50	Cr	104.073944	3.096	16363.598	ug/L	-24.595
[	53	Cr	113.222537	1.887	40553.613	ug/L	7591.993
[	61	Ni	108.025870	1.601	3245.650	ug/L	555.068
[	63	Cu	103.828827	0.307	120755.756	ug/L	33.334
[	67	Zn	102.288303	2.170	6286.685	ug/L	753.793
[	66	Zn	101.256094	0.484	31705.342	ug/L	109.336
[>	72	Ge			791945.592	ug/L	702479.912
[	108	Cd	92.996031	1.492	10558.711	ug/L	-2.258
[	114	Cd	95.968525	0.957	370916.690	ug/L	31.408
[>	115	In			846422.040	ug/L	768495.822
[	208	207.977	91.148821	2.208	1508420.569	ug/L	112.001
[	207	Pb	94.831434	1.658	624993.948	ug/L	40.000
[	206	Pb	96.698803	0.792	796847.227	ug/L	43.000
[>	169	Tm			967826.047	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	114.338
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	112.736
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	110.140
	Pb	208	
>	Tm-1	169	104.648
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	112.736
	Cd	108	
	Cd	114	
>	In	115	110.140
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.648

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:00:16
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 2.020
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			739543.103	ug/L	634495.074
>	6	Li-1			620738.717	ug/L	499505.610
	9	Be	0.002592	248.328	1.667	ug/L	0.667
	27	Al	0.331229	12.254	10580.122	ug/L	8009.375
	44	Ca	4.287143	49.464	12080.129	ug/L	9912.717
	52	Cr	0.914153	14.780	17291.829	ug/L	10115.388
	55	Mn	0.027651	4.204	1008.747	ug/L	632.031
	59	Co	0.003374	29.654	45.667	ug/L	18.333
	60	Ni	0.002255	185.048	66.552	ug/L	55.402
	65	Cu	0.000608	1108.248	133.031	ug/L	115.857
	68	Zn	0.046017	90.120	345.800	ug/L	278.285
	75	As	0.419292	41.820	10861.001	ug/L	8942.548
>	72	Ge-1			800630.447	ug/L	702479.912
	111	Cd	0.005797	46.904	26.638	ug/L	16.327
	121	Sb	-0.004533	43.444	144.668	ug/L	159.002
	135	Ba	-0.004359	165.372	105.001	ug/L	105.668
>	115	In-1			817439.012	ug/L	768495.822
	208	Pb	0.002860	28.716	290.336	ug/L	195.001
>	169	Tm-1			957096.262	ug/L	924836.015
	50	Cr	-0.201776	60.071	-60.185	ug/L	-24.595
	53	Cr	11.255456	4.424	11868.914	ug/L	7591.993
	61	Ni	2.722706	58.804	699.441	ug/L	555.068
	63	Cu	0.001439	589.312	39.667	ug/L	33.334
	67	Zn	0.789527	91.999	901.512	ug/L	753.793
	66	Zn	0.028925	403.954	133.671	ug/L	109.336
>	72	Ge			800630.447	ug/L	702479.912
	108	Cd	0.021068	170.855	-0.073	ug/L	-2.258
	114	Cd	0.004070	38.871	48.570	ug/L	31.408
>	115	In			817439.012	ug/L	768495.822
	208	207.977	0.002520	45.565	157.002	ug/L	112.001
	207	Pb	0.003166	16.594	62.000	ug/L	40.000
	206	Pb	0.003297	23.478	71.334	ug/L	43.000
>	169	Tm			957096.262	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	124.271
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	113.972
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	106.369
	Pb	208	
>	Tm-1	169	103.488
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	113.972
	Cd	108	
	Cd	114	
>	In	115	106.369
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.488

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:41:20
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 3.031
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			770667.109	ug/L	634495.074
>	6	Li-1			735118.879	ug/L	499505.610
	9	Be	94.041753	1.588	36411.878	ug/L	0.667
	27	Al	5403.006640	0.095	22991951.420	ug/L	8009.375
	44	Ca	5361.700875	0.421	960941.971	ug/L	9912.717
	52	Cr	93.880037	0.387	585626.022	ug/L	10115.388
	55	Mn	92.469088	0.660	936638.911	ug/L	632.031
	59	Co	90.812389	0.822	647350.694	ug/L	18.333
	60	Ni	92.355126	0.823	135254.056	ug/L	55.402
	65	Cu	98.216054	1.342	154939.114	ug/L	115.857
	68	Zn	100.168300	0.637	60703.560	ug/L	278.285
	75	As	95.076832	0.527	157175.891	ug/L	8942.548
>	72	Ge-1			776899.118	ug/L	702479.912
	111	Cd	97.311488	1.329	145828.306	ug/L	16.327
	121	Sb	49.749916	0.263	250620.139	ug/L	159.002
	135	Ba	95.753383	0.519	151924.168	ug/L	105.668
>	115	In-1			764501.627	ug/L	768495.822
	208	Pb	95.404943	0.843	2639844.193	ug/L	195.001
>	169	Tm-1			853410.401	ug/L	924836.015
	50	Cr	81.618459	4.750	12584.431	ug/L	-24.595
	53	Cr	105.500443	3.944	37651.907	ug/L	7591.993
	61	Ni	97.403183	1.376	2931.223	ug/L	555.068
	63	Cu	94.707744	1.486	108056.645	ug/L	33.334
	67	Zn	98.128074	1.694	5950.782	ug/L	753.793
	66	Zn	98.947633	0.565	30395.236	ug/L	109.336
>	72	Ge			776899.118	ug/L	702479.912
	108	Cd	95.532777	2.028	9797.208	ug/L	-2.258
	114	Cd	96.468662	0.752	336780.112	ug/L	31.408
>	115	In			764501.627	ug/L	768495.822
	208	207.977	96.098365	0.628	1402317.975	ug/L	112.001
	207	Pb	95.169912	1.070	553085.494	ug/L	40.000
	206	Pb	94.200348	1.462	684440.725	ug/L	43.000
>	169	Tm			853410.401	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	147.169
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	110.594
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.480
	Pb	208	
>	Tm-1	169	92.277
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	110.594
	Cd	108	
	Cd	114	
>	In	115	99.480
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.277

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:45:09
Method File: e:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 3.032
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			739910.048	ug/L	634495.074
[>	6	Li-1			696256.693	ug/L	499505.610
[	9	Be	0.005605	81.698	3.000	ug/L	0.667
[	27	Al	0.601717	8.592	11412.231	ug/L	8009.375
[	44	Ca	0.862990	136.607	11110.697	ug/L	9912.717
[	52	Cr	1.175107	5.058	18365.137	ug/L	10115.388
[	55	Mn	0.009498	4.975	794.716	ug/L	632.031
[	59	Co	0.007889	32.016	76.667	ug/L	18.333
[	60	Ni	-0.000026	12513.530	61.234	ug/L	55.402
[	65	Cu	0.018380	76.224	157.036	ug/L	115.857
[	68	Zn	-0.045400	134.949	279.986	ug/L	278.285
[	75	As	0.267867	67.023	10295.851	ug/L	8942.548
[>	72	Ge-1			776454.303	ug/L	702479.912
[	111	Cd	0.005244	122.447	25.281	ug/L	16.327
[	121	Sb	0.017584	20.022	259.339	ug/L	159.002
[	135	Ba	-0.000507	1654.665	109.668	ug/L	105.668
[>	115	In-1			803627.187	ug/L	768495.822
[	208	Pb	0.006843	19.057	391.338	ug/L	195.001
[>	169	Tm-1			903871.327	ug/L	924836.015
[	50	Cr	-0.227449	28.365	-62.275	ug/L	-24.595
[	53	Cr	13.606969	4.638	12161.122	ug/L	7591.993
[	61	Ni	4.130919	25.167	711.778	ug/L	555.068
[	63	Cu	0.021666	65.738	61.668	ug/L	33.334
[	67	Zn	-0.370426	177.443	814.146	ug/L	753.793
[	66	Zn	-0.119722	23.310	84.335	ug/L	109.336
[>	72	Ge			776454.303	ug/L	702479.912
[	108	Cd	0.050164	25.099	3.050	ug/L	-2.258
[	114	Cd	0.007416	12.470	60.041	ug/L	31.408
[>	115	In			803627.187	ug/L	768495.822
[	208	207.977	0.005832	17.719	199.670	ug/L	112.001
[	207	Pb	0.007346	9.505	84.334	ug/L	40.000
[	206	Pb	0.008471	29.462	107.334	ug/L	43.000
[>	169	Tm			903871.327	ug/L	924836.015

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	139.389
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	110.530
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	104.571
	Pb	208	
>	Tm-1	169	97.733
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	110.530
	Cd	108	
	Cd	114	
>	In	115	104.571
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.733

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:45:09
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 3.032
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			739910.048	ug/L	
>	6	Li-1			696256.693	ug/L	
	9	Be			3.000	ug/L	
	27	Al			11412.231	ug/L	
	44	Ca			11110.697	ug/L	
	52	Cr			18365.137	ug/L	
	55	Mn			794.716	ug/L	
	59	Co			76.667	ug/L	
	60	Ni			61.234	ug/L	
	65	Cu			157.036	ug/L	
	68	Zn			279.986	ug/L	
	75	As			10295.851	ug/L	
>	72	Ge-1			776454.303	ug/L	
	111	Cd			25.281	ug/L	
	121	Sb			259.339	ug/L	
	135	Ba			109.668	ug/L	
>	115	In-1			803627.187	ug/L	
	208	Pb			391.338	ug/L	
>	169	Tm-1			903871.327	ug/L	
	50	Cr			-62.275	ug/L	
	53	Cr			12161.122	ug/L	
	61	Ni			711.778	ug/L	
	63	Cu			61.668	ug/L	
	67	Zn			814.146	ug/L	
	66	Zn			84.335	ug/L	
>	72	Ge			776454.303	ug/L	
	108	Cd			3.050	ug/L	
	114	Cd			60.041	ug/L	
>	115	In			803627.187	ug/L	
	208	207.977			199.670	ug/L	
	207	Pb			84.334	ug/L	
	206	Pb			107.334	ug/L	
>	169	Tm			903871.327	ug/L	

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45
>	Li-1	6
	Be	9
	Al	27
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
>	Ge-1	72
	Cd	111
	Sb	121
	Ba	135
>	In-1	115
	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
	Cd	108
	Cd	114
>	In	115
	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:41:20
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 3.031
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			770667.109	ug/L	739910.048
>	6	Li-1			735118.879	ug/L	696256.693
	9	Be	100.000000	1.588	36411.878	ug/L	3.000
	27	Al	5100.000000	0.095	22991951.420	ug/L	11412.231
	44	Ca	5100.000000	0.421	960941.971	ug/L	11110.697
	52	Cr	100.000000	0.392	585626.022	ug/L	18365.137
	55	Mn	100.000000	0.661	936638.911	ug/L	794.716
	59	Co	100.000000	0.822	647350.694	ug/L	76.667
	60	Ni	100.000000	0.823	135254.056	ug/L	61.234
	65	Cu	100.000000	1.343	154939.114	ug/L	157.036
	68	Zn	100.000000	0.637	60703.560	ug/L	279.986
	75	As	100.000000	0.529	157175.891	ug/L	10295.851
>	72	Ge-1			776899.118	ug/L	776454.303
	111	Cd	100.000000	1.329	145828.306	ug/L	25.281
	121	Sb	50.000000	0.263	250620.139	ug/L	259.339
	135	Ba	100.000000	0.519	151924.168	ug/L	109.668
>	115	In-1			764501.627	ug/L	803627.187
	208	Pb	100.000000	0.843	2639844.193	ug/L	391.338
>	169	Tm-1			853410.401	ug/L	903871.327
	50	Cr	100.000000	4.737	12584.431	ug/L	-62.275
	53	Cr	100.000000	4.527	37651.907	ug/L	12161.122
	61	Ni	100.000000	1.437	2931.223	ug/L	711.778
	63	Cu	100.000000	1.486	108056.645	ug/L	61.668
	67	Zn	100.000000	1.688	5950.782	ug/L	814.146
	66	Zn	100.000000	0.564	30395.236	ug/L	84.335
>	72	Ge			776899.118	ug/L	776454.303
	108	Cd	100.000000	2.029	9797.208	ug/L	3.050
	114	Cd	100.000000	0.752	336780.112	ug/L	60.041
>	115	In			764501.627	ug/L	803627.187
	208	207.977	100.000000	0.628	1402317.975	ug/L	199.670
	207	Pb	100.000000	1.070	553085.494	ug/L	84.334
	206	Pb	100.000000	1.463	684440.725	ug/L	107.334
>	169	Tm			853410.401	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45
>	Li-1	6
	Be	9
	Al	27
	Ca	44
	Cr	52
	Mn	55
	Co	59
	Ni	60
	Cu	65
	Zn	68
	As	75
>	Ge-1	72
	Cd	111
	Sb	121
	Ba	135
>	In-1	115
	Pb	208
>	Tm-1	169
	Cr	50
	Cr	53
	Ni	61
	Cu	63
	Zn	67
	Zn	66
>	Ge	72
	Cd	108
	Cd	114
>	In	115
	207.977	208
	Pb	207
	Pb	206
>	Tm	169

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:48:58
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 4.033
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			726311.343	ug/L	739910.048
[>	6	Li-1			724810.172	ug/L	696256.693
[	9	Be	97.869368	1.402	35136.410	ug/L	3.000
[	27	Al	4842.859137	1.081	22081016.232	ug/L	11412.231
[	44	Ca	4745.977506	0.504	905125.556	ug/L	11110.697
[	52	Cr	101.204231	0.771	599126.879	ug/L	18365.137
[	55	Mn	101.963001	1.226	965746.063	ug/L	794.716
[	59	Co	101.141463	1.115	662119.012	ug/L	76.667
[	60	Ni	100.662874	0.734	137686.737	ug/L	61.234
[	65	Cu	101.081235	1.275	158381.396	ug/L	157.036
[	68	Zn	100.451379	0.580	61665.149	ug/L	279.986
[	75	As	97.983743	0.424	155962.667	ug/L	10295.851
[>	72	Ge-1			785687.533	ug/L	776454.303
[	111	Cd	96.187085	0.985	143837.249	ug/L	25.281
[	121	Sb	49.893345	0.364	256449.670	ug/L	259.339
[	135	Ba	101.962795	0.943	158842.392	ug/L	109.668
[>	115	In-1			783958.631	ug/L	803627.187
[	208	Pb	97.323725	0.883	2690500.735	ug/L	391.338
[>	169	Tm-1			893658.323	ug/L	903871.327
[	50	Cr	111.013959	4.929	14137.660	ug/L	-62.275
[	53	Cr	96.820490	0.504	37255.219	ug/L	12161.122
[	61	Ni	101.147261	2.498	2989.966	ug/L	711.778
[	63	Cu	103.032387	0.218	112594.757	ug/L	61.668
[	67	Zn	103.551877	0.396	6202.452	ug/L	814.146
[	66	Zn	101.129716	0.649	31085.146	ug/L	84.335
[>	72	Ge			785687.533	ug/L	776454.303
[	108	Cd	96.665284	1.461	9711.177	ug/L	3.050
[	114	Cd	98.061180	0.774	338652.583	ug/L	60.041
[>	115	In			783958.631	ug/L	803627.187
[	208	207.977	96.524597	0.973	1417489.027	ug/L	199.670
[	207	Pb	97.485229	1.027	564612.646	ug/L	84.334
[	206	Pb	98.830462	0.806	708399.062	ug/L	107.334
[>	169	Tm			893658.323	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	104.101
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	101.189
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.553
	Pb	208	
>	Tm-1	169	98.870
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	101.189
	Cd	108	
	Cd	114	
>	In	115	97.553
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.870

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 16:52:47
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 4.034
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			732922.874	ug/L	739910.048
>	6	Li-1			653863.497	ug/L	696256.693
	9	Be	0.001586	107.734	3.333	ug/L	3.000
	27	Al	0.047348	141.482	11265.300	ug/L	11412.231
	44	Ca	-0.043038	3732.761	10759.427	ug/L	11110.697
	52	Cr	0.039858	42.277	18016.137	ug/L	18365.137
	55	Mn	0.008025	45.666	843.056	ug/L	794.716
	59	Co	0.000746	385.684	79.001	ug/L	76.667
	60	Ni	-0.001107	303.421	57.895	ug/L	61.234
	65	Cu	0.003388	297.652	157.339	ug/L	157.036
	68	Zn	0.057016	128.941	304.443	ug/L	279.986
	75	As	0.276724	25.604	10371.094	ug/L	10295.851
>	72	Ge-1			752417.090	ug/L	776454.303
	111	Cd	0.001800	105.204	27.926	ug/L	25.281
	121	Sb	-0.007977	30.284	216.670	ug/L	259.339
	135	Ba	0.013020	39.504	130.001	ug/L	109.668
>	115	In-1			801621.817	ug/L	803627.187
	208	Pb	-0.000013	12725.650	383.005	ug/L	391.338
>	169	Tm-1			886268.557	ug/L	903871.327
	50	Cr	-0.029084	313.094	-63.979	ug/L	-62.275
	53	Cr	-0.372380	76.327	11692.333	ug/L	12161.122
	61	Ni	0.547464	360.353	701.775	ug/L	711.778
	63	Cu	-0.008730	142.281	50.667	ug/L	61.668
	67	Zn	1.056774	26.770	841.489	ug/L	814.146
	66	Zn	0.047943	165.026	95.669	ug/L	84.335
>	72	Ge			752417.090	ug/L	776454.303
	108	Cd	-0.022502	61.501	0.717	ug/L	3.050
	114	Cd	0.000959	285.678	63.259	ug/L	60.041
>	115	In			801621.817	ug/L	803627.187
	208	207.977	0.000991	207.368	210.004	ug/L	199.670
	207	Pb	0.000009	19193.322	82.667	ug/L	84.334
	206	Pb	-0.002088	56.034	90.334	ug/L	107.334
>	169	Tm			886268.557	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	93.911
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.904
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.750
	Pb	208	
>	Tm-1	169	98.053
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.904
	Cd	108	
	Cd	114	
>	In	115	99.750
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.053

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 17:30:15
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 5.044
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			806877.953	ug/L	739910.048
>	6	Li-1			717776.338	ug/L	696256.693
	9	Be	99.442766	1.080	35362.319	ug/L	3.000
	27	Al	5104.233376	0.039	23066302.715	ug/L	11412.231
	44	Ca	5286.961538	1.247	998147.006	ug/L	11110.697
	52	Cr	103.504878	1.851	606951.653	ug/L	18365.137
	55	Mn	98.481098	1.383	924640.385	ug/L	794.716
	59	Co	97.930384	0.726	635491.769	ug/L	76.667
	60	Ni	96.900331	0.491	131380.064	ug/L	61.234
	65	Cu	97.937498	0.640	152115.703	ug/L	157.036
	68	Zn	99.852903	0.748	60760.855	ug/L	279.986
	75	As	100.254259	0.213	157928.974	ug/L	10295.851
>	72	Ge-1			778763.117	ug/L	776454.303
	111	Cd	101.016424	0.677	151837.018	ug/L	25.281
	121	Sb	47.582671	1.618	245796.052	ug/L	259.339
	135	Ba	93.049748	1.426	145689.530	ug/L	109.668
>	115	In-1			787982.893	ug/L	803627.187
	208	Pb	99.902991	0.086	2524335.172	ug/L	391.338
>	169	Tm-1			816822.779	ug/L	903871.327
	50	Cr	109.151531	4.078	13776.553	ug/L	-62.275
	53	Cr	101.507139	4.675	38123.631	ug/L	12161.122
	61	Ni	93.260350	5.381	2788.378	ug/L	711.778
	63	Cu	97.810896	1.355	105951.021	ug/L	61.668
	67	Zn	98.042010	0.495	5864.223	ug/L	814.146
	66	Zn	100.455269	1.005	30607.064	ug/L	84.335
>	72	Ge			778763.117	ug/L	776454.303
	108	Cd	103.146963	0.794	10416.530	ug/L	3.050
	114	Cd	100.453423	0.426	348706.664	ug/L	60.041
>	115	In			787982.893	ug/L	803627.187
	208	207.977	100.052735	0.547	1342924.284	ug/L	199.670
	207	Pb	99.860984	0.423	528651.448	ug/L	84.334
	206	Pb	99.630141	1.000	652759.440	ug/L	107.334
>	169	Tm			816822.779	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	103.091
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.297
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.053
	Pb	208	
>	Tm-1	169	90.369
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.297
	Cd	108	
	Cd	114	
>	In	115	98.053
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	90.369

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 17:34:04
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 5.045
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			822715.183	ug/L	739910.048
[>	6	Li-1			706987.902	ug/L	696256.693
[	9	Be	-0.001139	574.717	2.667	ug/L	3.000
[	27	Al	0.199476	3.488	12361.662	ug/L	11412.231
[	44	Ca	-7.088014	2.956	9832.257	ug/L	11110.697
[	52	Cr	0.382507	13.238	20620.365	ug/L	18365.137
[	55	Mn	0.004062	46.618	836.055	ug/L	794.716
[	59	Co	-0.000760	166.588	72.000	ug/L	76.667
[	60	Ni	-0.001297	270.336	59.759	ug/L	61.234
[	65	Cu	-0.018119	18.031	129.512	ug/L	157.036
[	68	Zn	-0.060036	37.767	244.654	ug/L	279.986
[	75	As	-0.076849	530.062	10225.978	ug/L	10295.851
[>	72	Ge-1			779680.503	ug/L	776454.303
[	111	Cd	-0.000328	1572.038	25.357	ug/L	25.281
[	121	Sb	-0.009338	19.364	214.670	ug/L	259.339
[	135	Ba	0.000807	589.944	113.334	ug/L	109.668
[>	115	In-1			821020.477	ug/L	803627.187
[	208	Pb	-0.000173	484.951	342.004	ug/L	391.338
[>	169	Tm-1			799871.157	ug/L	903871.327
[	50	Cr	-0.280033	41.431	-97.986	ug/L	-62.275
[	53	Cr	10.355123	7.557	14859.426	ug/L	12161.122
[	61	Ni	-5.694597	27.578	587.743	ug/L	711.778
[	63	Cu	-0.023293	14.374	36.667	ug/L	61.668
[	67	Zn	-0.678238	149.457	782.468	ug/L	814.146
[	66	Zn	0.041570	41.640	97.335	ug/L	84.335
[>	72	Ge			779680.503	ug/L	776454.303
[	108	Cd	-0.012560	246.295	1.778	ug/L	3.050
[	114	Cd	-0.001689	163.855	55.293	ug/L	60.041
[>	115	In			821020.477	ug/L	803627.187
[	208	207.977	0.001217	127.350	192.670	ug/L	199.670
[	207	Pb	-0.001212	236.124	68.334	ug/L	84.334
[	206	Pb	-0.002182	63.260	81.001	ug/L	107.334
[>	169	Tm			799871.157	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	101.541
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.416
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.164
	Pb	208	
>	Tm-1	169	88.494
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.416
	Cd	108	
	Cd	114	
>	In	115	102.164
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	88.494

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 17:37:53
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 6.046
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			808031.020	ug/L	739910.048
>	6	Li-1			691631.977	ug/L	696256.693
	9	Be	100.415917	1.494	34402.743	ug/L	3.000
	27	Al	5004.500624	0.881	22356274.217	ug/L	11412.231
	44	Ca	5248.346283	1.437	979579.636	ug/L	11110.697
	52	Cr	106.680482	0.593	617871.175	ug/L	18365.137
	55	Mn	101.650633	1.263	943489.433	ug/L	794.716
	59	Co	98.290529	2.295	630584.523	ug/L	76.667
	60	Ni	96.786407	0.676	129724.380	ug/L	61.234
	65	Cu	96.449051	0.733	148091.260	ug/L	157.036
	68	Zn	98.371923	1.114	59177.300	ug/L	279.986
	75	As	100.084448	0.794	155870.860	ug/L	10295.851
>	72	Ge-1			769850.263	ug/L	776454.303
	111	Cd	99.080015	0.874	153135.814	ug/L	25.281
	121	Sb	46.675032	0.773	247992.077	ug/L	259.339
	135	Ba	90.316681	0.626	145441.265	ug/L	109.668
>	115	In-1			810291.105	ug/L	803627.187
	208	Pb	99.027312	0.618	2466114.970	ug/L	391.338
>	169	Tm-1			805054.637	ug/L	903871.327
	50	Cr	119.364563	3.242	14898.324	ug/L	-62.275
	53	Cr	103.756047	1.533	38255.307	ug/L	12161.122
	61	Ni	91.467211	3.601	2716.957	ug/L	711.778
	63	Cu	96.536597	1.186	103368.833	ug/L	61.668
	67	Zn	98.663177	1.510	5828.464	ug/L	814.146
	66	Zn	98.662003	0.456	29717.700	ug/L	84.335
>	72	Ge			769850.263	ug/L	776454.303
	108	Cd	100.461727	1.407	10431.289	ug/L	3.050
	114	Cd	100.196526	0.811	357660.242	ug/L	60.041
>	115	In			810291.105	ug/L	803627.187
	208	207.977	99.391919	1.073	1314825.706	ug/L	199.670
	207	Pb	98.034375	0.209	511493.530	ug/L	84.334
	206	Pb	99.082631	0.434	639795.734	ug/L	107.334
>	169	Tm			805054.637	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	99.336
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.149
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.829
	Pb	208	
>	Tm-1	169	89.067
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.149
	Cd	108	
	Cd	114	
>	In	115	100.829
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.067

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 17:41:43
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 6.047
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			822525.982	ug/L	739910.048
>	6	Li-1			688722.465	ug/L	696256.693
	9	Be	0.001083	165.468	3.333	ug/L	3.000
	27	Al	0.183264	8.932	12180.981	ug/L	11412.231
	44	Ca	-6.448518	19.953	9863.640	ug/L	11110.697
	52	Cr	0.223758	29.617	19541.965	ug/L	18365.137
	55	Mn	0.010267	64.333	886.395	ug/L	794.716
	59	Co	0.001302	101.768	84.667	ug/L	76.667
	60	Ni	-0.000888	318.159	59.744	ug/L	61.234
	65	Cu	-0.020663	59.538	124.465	ug/L	157.036
	68	Zn	0.016723	22.520	288.744	ug/L	279.986
	75	As	0.339182	28.074	10743.276	ug/L	10295.851
>	72	Ge-1			772854.804	ug/L	776454.303
	111	Cd	-0.000791	776.485	25.121	ug/L	25.281
	121	Sb	-0.014932	25.870	188.669	ug/L	259.339
	135	Ba	-0.005083	93.139	106.001	ug/L	109.668
>	115	In-1			838836.436	ug/L	803627.187
	208	Pb	0.001271	150.425	381.338	ug/L	391.338
>	169	Tm-1			807421.814	ug/L	903871.327
	50	Cr	-0.266869	51.877	-95.603	ug/L	-62.275
	53	Cr	6.485806	14.695	13748.467	ug/L	12161.122
	61	Ni	-4.587261	36.788	607.081	ug/L	711.778
	63	Cu	-0.022684	27.331	37.000	ug/L	61.668
	67	Zn	0.222566	177.915	821.815	ug/L	814.146
	66	Zn	0.038801	226.106	95.669	ug/L	84.335
>	72	Ge			772854.804	ug/L	776454.303
	108	Cd	-0.029159	46.239	0.050	ug/L	3.050
	114	Cd	-0.001313	241.968	57.822	ug/L	60.041
>	115	In			838836.436	ug/L	803627.187
	208	207.977	0.001203	198.007	194.336	ug/L	199.670
	207	Pb	0.000575	375.866	78.334	ug/L	84.334
	206	Pb	0.001975	59.109	108.668	ug/L	107.334
>	169	Tm			807421.814	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	98.918
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.536
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	104.381
	Pb	208	
>	Tm-1	169	89.329
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.536
	Cd	108	
	Cd	114	
>	In	115	104.381
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.329

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 18:15:24
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 7.056
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			761949.663	ug/L	739910.048
>	6	Li-1			724557.833	ug/L	696256.693
	9	Be	98.514378	0.383	35363.655	ug/L	3.000
	27	Al	4975.067521	1.357	22762833.424	ug/L	11412.231
	44	Ca	4979.787623	2.291	952489.074	ug/L	11110.697
	52	Cr	93.899886	0.978	559224.480	ug/L	18365.137
	55	Mn	94.324992	1.101	896703.262	ug/L	794.716
	59	Co	95.301991	1.444	626155.657	ug/L	76.667
	60	Ni	95.805149	1.063	131515.239	ug/L	61.234
	65	Cu	97.350458	1.016	153091.386	ug/L	157.036
	68	Zn	99.753308	0.921	61457.728	ug/L	279.986
	75	As	99.344075	1.912	158535.710	ug/L	10295.851
>	72	Ge-1			788498.565	ug/L	776454.303
	111	Cd	100.129551	1.787	140444.136	ug/L	25.281
	121	Sb	50.577419	0.744	243817.054	ug/L	259.339
	135	Ba	100.363100	1.005	146642.745	ug/L	109.668
>	115	In-1			735280.043	ug/L	803627.187
	208	Pb	99.698046	1.229	2569255.329	ug/L	391.338
>	169	Tm-1			833149.391	ug/L	903871.327
	50	Cr	100.614575	5.163	12850.525	ug/L	-62.275
	53	Cr	85.003500	3.809	34329.389	ug/L	12161.122
	61	Ni	90.586635	1.278	2763.012	ug/L	711.778
	63	Cu	98.837820	1.545	108398.514	ug/L	61.668
	67	Zn	97.170219	1.224	5891.961	ug/L	814.146
	66	Zn	98.675309	1.630	30440.180	ug/L	84.335
>	72	Ge			788498.565	ug/L	776454.303
	108	Cd	103.032491	2.147	9708.768	ug/L	3.050
	114	Cd	100.048224	0.693	324065.947	ug/L	60.041
>	115	In			735280.043	ug/L	803627.187
	208	207.977	99.516824	1.440	1362296.258	ug/L	199.670
	207	Pb	99.541160	0.954	537466.602	ug/L	84.334
	206	Pb	100.196099	1.369	669492.469	ug/L	107.334
>	169	Tm			833149.391	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	104.065
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	101.551
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	91.495
	Pb	208	
>	Tm-1	169	92.176
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	101.551
	Cd	108	
	Cd	114	
>	In	115	91.495
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.176

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 18:19:13
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 7.057
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			820747.780	ug/L	739910.048
>	6	Li-1			717467.606	ug/L	696256.693
	9	Be	0.002598	194.315	4.000	ug/L	3.000
	27	Al	0.352724	2.009	13145.564	ug/L	11412.231
	44	Ca	-8.210772	12.839	9688.705	ug/L	11110.697
	52	Cr	0.051317	181.400	18862.592	ug/L	18365.137
	55	Mn	0.005101	65.077	851.724	ug/L	794.716
	59	Co	0.002160	57.281	91.667	ug/L	76.667
	60	Ni	-0.003886	90.570	56.610	ug/L	61.234
	65	Cu	-0.005177	212.196	150.655	ug/L	157.036
	68	Zn	0.004896	766.412	286.169	ug/L	279.986
	75	As	-0.216725	58.390	10089.474	ug/L	10295.851
>	72	Ge-1			785106.620	ug/L	776454.303
	111	Cd	0.000183	2669.944	25.603	ug/L	25.281
	121	Sb	0.005915	27.139	290.673	ug/L	259.339
	135	Ba	-0.006387	88.509	99.667	ug/L	109.668
>	115	In-1			804501.105	ug/L	803627.187
	208	Pb	0.003782	20.458	450.006	ug/L	391.338
>	169	Tm-1			818211.736	ug/L	903871.327
	50	Cr	-0.127193	106.382	-79.185	ug/L	-62.275
	53	Cr	-0.062837	2535.473	12279.099	ug/L	12161.122
	61	Ni	-6.317651	7.700	578.074	ug/L	711.778
	63	Cu	0.003023	133.595	65.668	ug/L	61.668
	67	Zn	-0.089503	796.010	818.481	ug/L	814.146
	66	Zn	0.029549	116.698	94.335	ug/L	84.335
>	72	Ge			785106.620	ug/L	776454.303
	108	Cd	-0.023128	133.410	0.717	ug/L	3.050
	114	Cd	0.002556	125.914	69.274	ug/L	60.041
>	115	In			804501.105	ug/L	803627.187
	208	207.977	0.004330	34.354	239.005	ug/L	199.670
	207	Pb	0.003834	31.251	96.667	ug/L	84.334
	206	Pb	0.002617	52.490	114.334	ug/L	107.334
>	169	Tm			818211.736	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	103.046
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	101.114
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.109
	Pb	208	
>	Tm-1	169	90.523
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	101.114
	Cd	108	
	Cd	114	
>	In	115	100.109
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	90.523

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 8
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 18:23:02
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 8.058
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			783979.533	ug/L	739910.048
>	6	Li-1			657484.229	ug/L	696256.693
	9	Be	100.411125	2.574	32697.457	ug/L	3.000
	27	Al	4902.759981	1.578	21298745.696	ug/L	11412.231
	44	Ca	5130.456554	1.015	931443.451	ug/L	11110.697
	52	Cr	110.096811	1.122	619501.826	ug/L	18365.137
	55	Mn	108.970934	0.597	983480.182	ug/L	794.716
	59	Co	107.357214	1.165	669730.009	ug/L	76.667
	60	Ni	105.606209	0.536	137643.918	ug/L	61.234
	65	Cu	100.891915	0.887	150642.165	ug/L	157.036
	68	Zn	98.609679	1.444	57686.178	ug/L	279.986
	75	As	101.325421	0.825	153336.412	ug/L	10295.851
>	72	Ge-1			748654.600	ug/L	776454.303
	111	Cd	95.766043	1.112	151705.004	ug/L	25.281
	121	Sb	47.734412	0.918	259904.714	ug/L	259.339
	135	Ba	95.189090	0.572	157098.728	ug/L	109.668
>	115	In-1			830479.280	ug/L	803627.187
	208	Pb	93.094086	3.105	2380377.357	ug/L	391.338
>	169	Tm-1			827159.969	ug/L	903871.327
	50	Cr	117.099285	5.513	14213.824	ug/L	-62.275
	53	Cr	109.080869	2.960	38509.956	ug/L	12161.122
	61	Ni	103.557244	1.909	2900.851	ug/L	711.778
	63	Cu	103.688990	1.740	107974.668	ug/L	61.668
	67	Zn	101.061163	2.172	5787.027	ug/L	814.146
	66	Zn	102.043304	1.766	29888.982	ug/L	84.335
>	72	Ge			748654.600	ug/L	776454.303
	108	Cd	96.519097	0.373	10272.028	ug/L	3.050
	114	Cd	96.809082	1.166	354142.178	ug/L	60.041
>	115	In			830479.280	ug/L	803627.187
	208	207.977	91.807266	3.361	1246927.164	ug/L	199.670
	207	Pb	93.277684	3.336	499664.198	ug/L	84.334
	206	Pb	95.582146	2.425	633785.995	ug/L	107.334
>	169	Tm			827159.969	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	94.431
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.420
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.341
	Pb	208	
>	Tm-1	169	91.513
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.420
	Cd	108	
	Cd	114	
>	In	115	103.341
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.513

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 8
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 18:26:51
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 8 .059
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			792279.512	ug/L	739910.048
>	6	Li-1			658435.172	ug/L	696256.693
	9	Be	0.003579	227.200	4.000	ug/L	3.000
	27	Al	0.220668	31.906	12378.364	ug/L	11412.231
	44	Ca	-4.010588	31.979	10343.070	ug/L	11110.697
	52	Cr	0.162832	58.161	19245.736	ug/L	18365.137
	55	Mn	0.016591	20.976	947.737	ug/L	794.716
	59	Co	0.003276	15.087	97.667	ug/L	76.667
	60	Ni	0.004876	131.611	67.717	ug/L	61.234
	65	Cu	-0.008912	67.235	142.982	ug/L	157.036
	68	Zn	-0.024164	145.613	264.927	ug/L	279.986
	75	As	0.414193	55.644	10879.524	ug/L	10295.851
>	72	Ge-1			774809.210	ug/L	776454.303
	111	Cd	0.005089	67.506	34.977	ug/L	25.281
	121	Sb	-0.012391	23.060	205.003	ug/L	259.339
	135	Ba	0.008601	61.953	130.335	ug/L	109.668
>	115	In-1			849022.154	ug/L	803627.187
	208	Pb	0.002483	32.496	450.006	ug/L	391.338
>	169	Tm-1			882801.726	ug/L	903871.327
	50	Cr	-0.046018	208.876	-67.945	ug/L	-62.275
	53	Cr	3.346324	10.886	12985.324	ug/L	12161.122
	61	Ni	3.135203	56.650	779.801	ug/L	711.778
	63	Cu	-0.000175	1737.520	61.334	ug/L	61.668
	67	Zn	1.221187	68.311	875.169	ug/L	814.146
	66	Zn	0.039279	83.461	96.002	ug/L	84.335
>	72	Ge			774809.210	ug/L	776454.303
	108	Cd	-0.026753	103.147	0.322	ug/L	3.050
	114	Cd	-0.001549	86.074	57.650	ug/L	60.041
>	115	In			849022.154	ug/L	803627.187
	208	207.977	0.003581	22.064	247.005	ug/L	199.670
	207	Pb	0.002619	32.592	97.334	ug/L	84.334
	206	Pb	0.000122	943.143	105.668	ug/L	107.334
>	169	Tm			882801.726	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	94.568
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.788
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	105.649
	Pb	208	
>	Tm-1	169	97.669
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.788
	Cd	108	
	Cd	114	
>	In	115	105.649
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.669

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 9
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:04:31
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 9.069
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			755310.144	ug/L	739910.048
>	6	Li-1			675742.595	ug/L	696256.693
	9	Be	97.272888	1.175	32564.445	ug/L	3.000
	27	Al	4689.253483	1.876	21059608.730	ug/L	11412.231
	44	Ca	4844.608257	1.576	909858.735	ug/L	11110.697
	52	Cr	106.662214	1.576	621021.047	ug/L	18365.137
	55	Mn	106.459475	1.698	993244.811	ug/L	794.716
	59	Co	106.432648	1.120	686377.701	ug/L	76.667
	60	Ni	106.194597	1.301	143081.196	ug/L	61.234
	65	Cu	105.354440	1.071	162617.625	ug/L	157.036
	68	Zn	100.185549	0.969	60593.910	ug/L	279.986
	75	As	98.179507	0.188	153927.249	ug/L	10295.851
>	72	Ge-1			774008.711	ug/L	776454.303
	111	Cd	94.343483	0.443	147367.048	ug/L	25.281
	121	Sb	48.827271	1.133	262140.337	ug/L	259.339
	135	Ba	99.098879	1.983	161245.834	ug/L	109.668
>	115	In-1			818877.312	ug/L	803627.187
	208	Pb	89.896508	0.341	2501480.150	ug/L	391.338
>	169	Tm-1			899490.227	ug/L	903871.327
	50	Cr	122.091516	5.880	15329.134	ug/L	-62.275
	53	Cr	104.993055	0.953	38775.686	ug/L	12161.122
	61	Ni	106.543147	5.786	3064.066	ug/L	711.778
	63	Cu	107.282586	0.396	115493.361	ug/L	61.668
	67	Zn	103.405543	3.526	6103.191	ug/L	814.146
	66	Zn	103.486977	0.685	31334.885	ug/L	84.335
>	72	Ge			774008.711	ug/L	776454.303
	108	Cd	95.717675	2.116	10043.752	ug/L	3.050
	114	Cd	96.145707	0.290	346830.733	ug/L	60.041
>	115	In			818877.312	ug/L	803627.187
	208	207.977	87.617203	0.245	1295080.825	ug/L	199.670
	207	Pb	91.013941	1.876	530672.033	ug/L	84.334
	206	Pb	93.663391	0.373	675727.291	ug/L	107.334
>	169	Tm			899490.227	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	97.054
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.685
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.898
	Pb	208	
>	Tm-1	169	99.515
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.685
	Cd	108	
	Cd	114	
>	In	115	101.898
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.515

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 9
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:08:20
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 9.070
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			784166.269	ug/L	739910.048
>	6	Li-1			664214.801	ug/L	696256.693
	9	Be	0.005472	114.604	4.667	ug/L	3.000
	27	Al	0.248205	3.574	12478.891	ug/L	11412.231
	44	Ca	-5.106292	14.672	10119.375	ug/L	11110.697
	52	Cr	0.072607	45.267	18700.777	ug/L	18365.137
	55	Mn	0.012820	38.880	911.065	ug/L	794.716
	59	Co	0.005692	16.061	113.001	ug/L	76.667
	60	Ni	0.005760	154.804	68.739	ug/L	61.234
	65	Cu	-0.001674	736.107	153.917	ug/L	157.036
	68	Zn	-0.003985	121.523	276.429	ug/L	279.986
	75	As	0.222156	16.084	10578.738	ug/L	10295.851
>	72	Ge-1			773274.118	ug/L	776454.303
	111	Cd	0.002358	285.910	30.736	ug/L	25.281
	121	Sb	-0.013565	21.781	199.003	ug/L	259.339
	135	Ba	0.006573	99.624	127.335	ug/L	109.668
>	115	In-1			851217.373	ug/L	803627.187
	208	Pb	0.003596	34.281	473.674	ug/L	391.338
>	169	Tm-1			870625.603	ug/L	903871.327
	50	Cr	-0.073314	157.249	-71.224	ug/L	-62.275
	53	Cr	1.099281	94.599	12389.351	ug/L	12161.122
	61	Ni	0.138616	1366.062	711.778	ug/L	711.778
	63	Cu	-0.006897	75.121	54.001	ug/L	61.668
	67	Zn	0.833115	161.303	853.494	ug/L	814.146
	66	Zn	0.028552	145.520	92.669	ug/L	84.335
>	72	Ge			773274.118	ug/L	776454.303
	108	Cd	-0.034914	63.861	-0.591	ug/L	3.050
	114	Cd	0.004132	134.928	79.242	ug/L	60.041
>	115	In			851217.373	ug/L	803627.187
	208	207.977	0.003843	35.760	247.338	ug/L	199.670
	207	Pb	0.002987	104.996	98.001	ug/L	84.334
	206	Pb	0.003580	90.045	128.335	ug/L	107.334
>	169	Tm			870625.603	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	95.398
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.590
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	105.922
	Pb	208	
>	Tm-1	169	96.322
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.590
	Cd	108	
	Cd	114	
>	In	115	105.922
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.322

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 10
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:12:09
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 10.071
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			740447.160	ug/L	739910.048
>	6	Li-1			706846.723	ug/L	696256.693
	9	Be	93.972105	0.609	32910.570	ug/L	3.000
	27	Al	4502.369687	0.502	20763785.494	ug/L	11412.231
	44	Ca	4631.900709	1.445	893723.476	ug/L	11110.697
	52	Cr	101.254318	2.184	606246.459	ug/L	18365.137
	55	Mn	101.984109	1.110	977037.339	ug/L	794.716
	59	Co	102.257006	0.772	677119.158	ug/L	76.667
	60	Ni	102.960751	0.557	142446.142	ug/L	61.234
	65	Cu	103.225388	0.747	163608.030	ug/L	157.036
	68	Zn	99.948221	0.625	62063.940	ug/L	279.986
	75	As	97.039183	0.647	156330.520	ug/L	10295.851
>	72	Ge-1			794710.697	ug/L	776454.303
	111	Cd	94.491013	0.428	145102.796	ug/L	25.281
	121	Sb	49.258780	0.431	259994.908	ug/L	259.339
	135	Ba	100.595544	1.183	160921.983	ug/L	109.668
>	115	In-1			805031.240	ug/L	803627.187
	208	Pb	92.825492	1.365	2592693.263	ug/L	391.338
>	169	Tm-1			902931.005	ug/L	903871.327
	50	Cr	113.848656	5.828	14660.832	ug/L	-62.275
	53	Cr	97.912782	2.295	37963.788	ug/L	12161.122
	61	Ni	103.658613	2.014	3081.755	ug/L	711.778
	63	Cu	104.645835	0.621	115667.410	ug/L	61.668
	67	Zn	103.169996	0.679	6253.592	ug/L	814.146
	66	Zn	101.415486	1.254	31529.200	ug/L	84.335
>	72	Ge			794710.697	ug/L	776454.303
	108	Cd	95.524136	1.858	9854.898	ug/L	3.050
	114	Cd	96.234630	0.600	341293.093	ug/L	60.041
>	115	In			805031.240	ug/L	803627.187
	208	207.977	90.883748	0.968	1348468.384	ug/L	199.670
	207	Pb	93.690764	2.292	548238.086	ug/L	84.334
	206	Pb	96.104538	1.405	695986.794	ug/L	107.334
>	169	Tm			902931.005	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery

	Sc	45	
>	Li-1	6	101.521
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	102.351
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.175
	Pb	208	
>	Tm-1	169	99.896
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	102.351
	Cd	108	
	Cd	114	
>	In	115	100.175
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.896

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 10
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:15:58
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 10.072
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			791541.934	ug/L	739910.048
[>	6	Li-1			741732.338	ug/L	696256.693
[	9	Be	0.004979	200.347	5.000	ug/L	3.000
[	27	Al	0.400279	14.882	13993.370	ug/L	11412.231
[	44	Ca	-10.826165	12.079	9630.951	ug/L	11110.697
[	52	Cr	-0.420108	4.013	16926.482	ug/L	18365.137
[	55	Mn	0.002223	209.922	863.392	ug/L	794.716
[	59	Co	0.004897	38.279	114.668	ug/L	76.667
[	60	Ni	-0.001311	466.508	63.012	ug/L	61.234
[	65	Cu	-0.017982	33.538	136.791	ug/L	157.036
[	68	Zn	-0.013941	220.982	287.475	ug/L	279.986
[	75	As	-0.170435	187.642	10635.593	ug/L	10295.851
[>	72	Ge-1			822293.493	ug/L	776454.303
[	111	Cd	0.006576	67.264	33.526	ug/L	25.281
[	121	Sb	-0.011774	18.752	187.336	ug/L	259.339
[	135	Ba	0.010826	98.745	120.334	ug/L	109.668
[>	115	In-1			763055.696	ug/L	803627.187
[	208	Pb	0.005904	8.317	536.009	ug/L	391.338
[>	169	Tm-1			870679.200	ug/L	903871.327
[	50	Cr	-0.019018	216.546	-68.463	ug/L	-62.275
[	53	Cr	-6.654343	8.622	11084.638	ug/L	12161.122
[	61	Ni	-6.053358	37.560	611.749	ug/L	711.778
[	63	Cu	-0.007784	137.060	56.334	ug/L	61.668
[	67	Zn	0.753674	76.033	903.180	ug/L	814.146
[	66	Zn	0.007237	429.966	91.669	ug/L	84.335
[>	72	Ge			822293.493	ug/L	776454.303
[	108	Cd	-0.026168	160.617	0.383	ug/L	3.050
[	114	Cd	0.005135	40.321	74.269	ug/L	60.041
[>	115	In			763055.696	ug/L	803627.187
[	208	207.977	0.007737	10.878	303.007	ug/L	199.670
[	207	Pb	0.005803	22.798	114.001	ug/L	84.334
[	206	Pb	0.002231	59.076	119.001	ug/L	107.334
[>	169	Tm			870679.200	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	106.531
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	105.904
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	94.951
	Pb	208	
>	Tm-1	169	96.328
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	105.904
	Cd	108	
	Cd	114	
>	In	115	94.951
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.328

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 11
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:53:27
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 11.080
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			806161.791	ug/L	739910.048
>	6	Li-1			663288.385	ug/L	696256.693
	9	Be	100.579020	2.142	33047.263	ug/L	3.000
	27	Al	4809.321363	1.219	21595359.903	ug/L	11412.231
	44	Ca	5111.611014	1.394	959229.429	ug/L	11110.697
	52	Cr	108.744761	1.324	632691.986	ug/L	18365.137
	55	Mn	104.659134	1.824	976350.597	ug/L	794.716
	59	Co	102.953260	1.961	663833.844	ug/L	76.667
	60	Ni	100.368503	2.463	135217.712	ug/L	61.234
	65	Cu	96.611117	1.244	149105.110	ug/L	157.036
	68	Zn	96.916482	0.382	58607.061	ug/L	279.986
	75	As	100.318631	0.172	157019.157	ug/L	10295.851
>	72	Ge-1			773811.351	ug/L	776454.303
	111	Cd	96.158148	1.332	153146.686	ug/L	25.281
	121	Sb	46.530661	1.110	254732.052	ug/L	259.339
	135	Ba	92.646047	0.972	153736.487	ug/L	109.668
>	115	In-1			834992.600	ug/L	803627.187
	208	Pb	96.476511	1.301	2415132.859	ug/L	391.338
>	169	Tm-1			809352.273	ug/L	903871.327
	50	Cr	121.100567	1.753	15193.938	ug/L	-62.275
	53	Cr	110.175972	4.376	40082.604	ug/L	12161.122
	61	Ni	98.665754	3.679	2890.171	ug/L	711.778
	63	Cu	98.308346	1.880	105812.405	ug/L	61.668
	67	Zn	98.120514	2.532	5830.805	ug/L	814.146
	66	Zn	97.632147	1.260	29559.331	ug/L	84.335
>	72	Ge			773811.351	ug/L	776454.303
	108	Cd	99.085167	2.420	10600.512	ug/L	3.050
	114	Cd	96.586536	0.718	355263.499	ug/L	60.041
>	115	In			834992.600	ug/L	803627.187
	208	207.977	96.123965	1.184	1278275.222	ug/L	199.670
	207	Pb	96.036985	1.416	503689.635	ug/L	84.334
	206	Pb	97.553949	1.836	633168.003	ug/L	107.334
>	169	Tm			809352.273	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	95.265
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	99.660
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.903
	Pb	208	
>	Tm-1	169	89.543
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	99.660
	Cd	108	
	Cd	114	
>	In	115	103.903
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.543

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 11
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 19:57:16
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 11.081
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			746793.733	ug/L	739910.048
>	6	Li-1			699668.118	ug/L	696256.693
	9	Be	0.013414	87.450	7.667	ug/L	3.000
	27	Al	0.410645	12.865	14001.720	ug/L	11412.231
	44	Ca	-12.370073	4.981	9301.795	ug/L	11110.697
	52	Cr	-0.142808	76.570	18531.951	ug/L	18365.137
	55	Mn	0.020899	4.815	1045.753	ug/L	794.716
	59	Co	0.008270	23.000	137.335	ug/L	76.667
	60	Ni	0.001224	552.560	66.305	ug/L	61.234
	65	Cu	-0.008145	117.598	152.368	ug/L	157.036
	68	Zn	-0.003905	55.895	293.196	ug/L	279.986
	75	As	0.460473	48.049	11584.768	ug/L	10295.851
>	72	Ge-1			819954.298	ug/L	776454.303
	111	Cd	0.005792	58.184	34.933	ug/L	25.281
	121	Sb	-0.015271	22.385	183.003	ug/L	259.339
	135	Ba	0.004012	211.128	118.668	ug/L	109.668
>	115	In-1			821711.950	ug/L	803627.187
	208	Pb	0.008395	14.429	640.013	ug/L	391.338
>	169	Tm-1			923984.459	ug/L	903871.327
	50	Cr	0.024817	633.575	-62.556	ug/L	-62.275
	53	Cr	2.565043	79.934	13526.147	ug/L	12161.122
	61	Ni	2.801504	88.556	816.814	ug/L	711.778
	63	Cu	-0.003376	146.428	61.334	ug/L	61.668
	67	Zn	1.030857	34.919	915.851	ug/L	814.146
	66	Zn	0.040536	31.585	102.002	ug/L	84.335
>	72	Ge			819954.298	ug/L	776454.303
	108	Cd	-0.016464	164.066	1.383	ug/L	3.050
	114	Cd	0.004613	46.702	78.080	ug/L	60.041
>	115	In			821711.950	ug/L	803627.187
	208	207.977	0.008776	17.423	337.342	ug/L	199.670
	207	Pb	0.007203	15.470	129.335	ug/L	84.334
	206	Pb	0.008577	31.214	173.336	ug/L	107.334
>	169	Tm			923984.459	ug/L	903871.327

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery

	Sc	45	
>	Li-1	6	100.490
	Be	9	
	Al	27	
	Ca	44	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	105.602
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.250
	Pb	208	
>	Tm-1	169	102.225
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	105.602
	Cd	108	
	Cd	114	
>	In	115	102.250
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.225

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 12
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:01:06
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 12.082
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	5533.115787	2.028	1061741.349	ug/L	11110.697
|	55	Mn	104.266273	2.170	995437.342	ug/L	794.716
|	75	As	101.377627	2.858	162269.506	ug/L	10295.851
⌞>	72	Ge-1			792080.553	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	102.013

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 12
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:03:43
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 12.083
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	-5.973750	20.928	10766.768	ug/L	11110.697
|	55	Mn	0.023955	27.789	1096.761	ug/L	794.716
|	75	As	0.247012	65.797	11477.612	ug/L	10295.851
⌞>	72	Ge-1			836293.728	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	107.707

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 13
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:06:20
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 13.084
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	5440.640604	0.721	1064121.178	ug/L	11110.697
|	55	Mn	102.278716	0.765	995141.788	ug/L	794.716
|	75	As	99.613416	0.737	162690.194	ug/L	10295.851
⌞>	72	Ge-1			807060.771	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	103.942

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 13
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:08:57
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 13.085
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-3.624840	10.775	11164.786	ug/L	11110.697
|	55	Mn	0.022010	16.160	1070.423	ug/L	794.716
|	75	As	0.380227	88.681	11613.743	ug/L	10295.851
⌊>	72	Ge-1			830719.736	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	106.989

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA6PQB
Sample Description: G0L100000-269 BLK
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:11:31
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA6PQB.086
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 99
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	118.359895	2.144	34331.024	ug/L	11110.697
|	55	Mn	0.119120	4.563	1977.307	ug/L	794.716
|	75	As	0.747622	15.495	11802.360	ug/L	10295.851
⌊>	72	Ge-1			804450.868	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	103.606

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA6PQC
Sample Description: G0L100000-269 LCS
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:14:04
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA6PQC.087
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 88
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1252.294678	7.254	239159.112	ug/L	11110.697
|	55	Mn	192.373529	7.280	1762711.046	ug/L	794.716
|	75	As	187.576069	7.022	279758.934	ug/L	10295.851
⌊>	72	Ge-1			762462.681	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	98.198

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA6PQL
Sample Description: G0L100000-269 LCSD
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:16:35
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA6PQL.088
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 89
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1118.410802	2.148	216533.572	ug/L	11110.697
|	55	Mn	174.870517	1.400	1615948.612	ug/L	794.716
|	75	As	170.763229	2.180	257680.881	ug/L	10295.851
⌊>	72	Ge-1			766903.700	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	98.770

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA11P
Sample Description: G0L080454-7
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:19:08
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA11P.089
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 23
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	2120.276618	4.738	382636.504	ug/L	11110.697
|	55	Mn	496.678686	3.727	4382415.032	ug/L	794.716
|	75	As	1.145444	19.588	11300.064	ug/L	10295.851
⌞>	72	Ge-1			733034.765	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	94.408

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA11PP5
Sample Description: G0L080454-7 5X
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:21:41
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA11PP5.090
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 24
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	427.537496	2.106	89186.692	ug/L	11110.697
|	55	Mn	101.228690	1.752	931906.306	ug/L	794.716
|	75	As	0.767594	6.542	11234.130	ug/L	10295.851
⌊>	72	Ge-1			763682.158	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	98.355

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA11PZ
Sample Description: G0L080454-7 PS
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:24:14
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA11PZ.091
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 25
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	3064.242394	1.534	559252.939	ug/L	11110.697
|	55	Mn	652.049232	1.495	5866483.376	ug/L	794.716
|	75	As	181.055330	0.743	265525.763	ug/L	10295.851
⌊>	72	Ge-1			746799.324	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	96.181

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA12P
Sample Description: G0L080454-10
Batch ID: 344269
Sample Date/Time: Monday, December 13, 2010 20:26:45
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\MA12P.092
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 26
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	1606.368324	4.400	295554.805	ug/L	11110.697
|	55	Mn	91.592162	4.621	817120.321	ug/L	794.716
|	75	As	0.914287	45.836	11089.096	ug/L	10295.851
⌞>	72	Ge-1			740805.540	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	95.409

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 14
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:29:21
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCV 14.093
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	5363.140226	0.638	1016993.745	ug/L	11110.697
|	55	Mn	100.356441	0.776	946485.055	ug/L	794.716
|	75	As	97.483011	0.817	154543.409	ug/L	10295.851
⌊>	72	Ge-1			782305.248	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	100.754

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 14
Sample Description:
Batch ID:
Sample Date/Time: Monday, December 13, 2010 20:31:58
Method File: E:\elandata\Method\0344269.mth
Dataset File: e:\elandata\dataset\101213a2\CCB 14.094
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-1.726609	28.253	11166.121	ug/L	11110.697
|	55	Mn	0.014657	26.311	964.406	ug/L	794.716
|	75	As	0.163830	135.393	10903.048	ug/L	10295.851
⌊>	72	Ge-1			803592.575	ug/L	776454.303

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	103.495

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/13/10 15:02		☐
2	Blank				1.0	12/13/10 15:07		☐
3	Standard1				1.0	12/13/10 15:11		☐
4	ICV				1.0	12/13/10 15:14		☐
5	ICB				1.0	12/13/10 15:18		☐
6	LLSTD1				1.0	12/13/10 15:22		☐
7	LLSTD2				1.0	12/13/10 15:26		☐
8	ICSA				1.0	12/13/10 15:30		☐
9	ICSAB				1.0	12/13/10 15:33		☐
10	Rinse				1.0	12/13/10 15:41		☐
11	CCV 1				1.0	12/13/10 15:48		☐
12	CCB 1				1.0	12/13/10 15:52		☐
13	CCV 2				1.0	12/13/10 15:56		☐
14	CCB 2				1.0	12/13/10 16:00		☐
15	MA6P6B	G0L100000	0344278	2A	1.0	12/13/10 16:04		☐
16	MA6P6C	G0L100000	0344278	2A	1.0	12/13/10 16:07		☐
17	MA6P6L	G0L100000	0344278	2A	1.0	12/13/10 16:11		☐
18	MA59Q	G0L100456-1	0344278	2A	1.0	12/13/10 16:15		☐
19	MA59QP5	G0L100456	0344278		5.0	12/13/10 16:18		☐
20	MA59QX	G0L100456-1	0344278	2A	1.0	12/13/10 16:22		☐
21	MA59QZ	G0L100456-1	0344278		1.0	12/13/10 16:26		☐
22	MA59X	G0L100456-2	0344278	2A	1.0	12/13/10 16:30		☐
23	MA591	G0L100456-3	0344278	2A	1.0	12/13/10 16:33		☐
24	MA592	G0L100456-4	0344278	2A	1.0	12/13/10 16:37		☐
25	CCV 3				1.0	12/13/10 16:41		☐
26	CCB 3				1.0	12/13/10 16:45		☐
29	CCV 4				1.0	12/13/10 16:48		☐
30	CCB 4				1.0	12/13/10 16:52		☐
31	MA31M	G0L090441-1	0344278	2A	1.0	12/13/10 16:56		☐
32	MA31Q	G0L090441-2	0344278	2A	1.0	12/13/10 17:00		☐
33	MA31R	G0L090441-3	0344278	2A	1.0	12/13/10 17:03		☐
34	MA31T	G0L090441-4	0344278	2A	1.0	12/13/10 17:07		☐
35	MA31V	G0L090441-5	0344278	2A	1.0	12/13/10 17:11		☐
36	MA8EL	G0L110445-3	0347254	2A	1.0	12/13/10 17:15		☐
37	MA8EN	G0L110445-4	0347254	2A	1.0	12/13/10 17:18		☐
38	MA8EP	G0L110445-5	0347254	2A	1.0	12/13/10 17:22		☐
39	MA8ER	G0L110445-6	0347254	2A	1.0	12/13/10 17:26		☐
40	CCV 5				1.0	12/13/10 17:30		☐
41	CCB 5				1.0	12/13/10 17:34		☐
42	CCV 6				1.0	12/13/10 17:37		☐
43	CCB 6				1.0	12/13/10 17:41		☐
44	MA9E2B	G0L130000	0347254	2A	1.0	12/13/10 17:45		☐
45	MA9E2C	G0L130000	0347254	2A	1.0	12/13/10 17:49		☐
46	MA9E2L	G0L130000	0347254	2A	1.0	12/13/10 17:52		☐
47	MA8EJ	G0L110445-1	0347254	2A	1.0	12/13/10 17:56		☐
48	MA8EJP5	G0L110445	0347254		5.0	12/13/10 18:00		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst:** hargraves

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA8EJX	G0L110445-1	0347254	2A	1.0	12/13/10 18:04		☐
50	MA8EJZ	G0L110445-1	0347254		1.0	12/13/10 18:07		☐
51	MA8EK	G0L110445-2	0347254	2A	1.0	12/13/10 18:11		☐
52	CCV 7				1.0	12/13/10 18:15		☐
53	CCB 7				1.0	12/13/10 18:19		☐
54	CCV 8				1.0	12/13/10 18:23		☐
55	CCB 8				1.0	12/13/10 18:26		☐
56	MA9E7B	G0L130000	0347255	2A	1.0	12/13/10 18:30		☐
57	MA9E7C	G0L130000	0347255	2A	1.0	12/13/10 18:34		☐
58	MA9E7L	G0L130000	0347255	2A	1.0	12/13/10 18:38		☐
59	MAT82	G0L030531-1	0347255	2A	1.0	12/13/10 18:41		☐
60	MAT82P5	G0L030531	0347255		5.0	12/13/10 18:45		☐
61	MAT82Z	G0L030531-1	0347255		1.0	12/13/10 18:49		☐
62	MAT83	G0L030531-2	0347255	2A	1.0	12/13/10 18:53		☐
63	MAT84	G0L030531-3	0347255	2A	1.0	12/13/10 18:56		☐
64	MAT85	G0L030531-4	0347255	2A	1.0	12/13/10 19:00		☐
65	CCV 9				1.0	12/13/10 19:04		☐
66	CCB 9				1.0	12/13/10 19:08		☐
67	CCV 10				1.0	12/13/10 19:12		☐
68	CCB 10				1.0	12/13/10 19:15		☐
69	MAT86	G0L030531-5	0347255	2A	1.0	12/13/10 19:19		☐
70	MAT87	G0L030531-6	0347255	2A	1.0	12/13/10 19:23		☐
71	MAT88	G0L030531-7	0347255	2A	1.0	12/13/10 19:27		☐
72	MAT89	G0L030531-8	0347255	2A	1.0	12/13/10 19:30		☐
73	Rinse				1.0	12/13/10 19:34		☐
74	ICSA				1.0	12/13/10 19:42		☐
75	ICSAB				1.0	12/13/10 19:45		☐
76	CCV 11				1.0	12/13/10 19:53		☐
77	CCB 11				1.0	12/13/10 19:57		☐
78	CCV 12				1.0	12/13/10 20:01		☐
79	CCB 12				1.0	12/13/10 20:03		☐
80	CCV 13				1.0	12/13/10 20:06		☐
81	CCB 13				1.0	12/13/10 20:08		☐
82	MA6PQB	G0L100000	0344269	2A	1.0	12/13/10 20:11		☐
83	MA6PQC	G0L100000	0344269	2A	1.0	12/13/10 20:14		☐
84	MA6PQL	G0L100000	0344269	2A	1.0	12/13/10 20:16		☐
85	MA11P	G0L080454-7	0344269	2A	1.0	12/13/10 20:19		☐
86	MA11PP5	G0L080454	0344269		5.0	12/13/10 20:21		☐
87	MA11PZ	G0L080454-7	0344269		1.0	12/13/10 20:24		☐
88	MA12P	G0L080454-10	0344269	2A	1.0	12/13/10 20:26		☐
89	CCV 14				1.0	12/13/10 20:29		☐
90	CCB 14				1.0	12/13/10 20:31		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 2X	12/13/10 15:02	95.3	101.9	97.4	93.1	☐
2	Blank	12/13/10 15:07	100.0	100.0	100.0	100.0	☑
3	Standard1	12/13/10 15:11	100.3	98.5	108.0	96.6	☑
4	ICV	12/13/10 15:14	98.9	103.9	96.6	100.3	☑
5	ICB	12/13/10 15:18	97.1	103.0	98.1	92.5	☑
6	LLSTD1	12/13/10 15:22	98.4	104.7	98.9	93.5	☑
7	LLSTD2	12/13/10 15:26	101.0	102.5	102.8	101.8	☑
8	ICSA	12/13/10 15:30	88.7	86.7	89.2	77.9	☑
9	ICSAB	12/13/10 15:33	94.5	86.9	94.4	82.3	☑
10	Rinse	12/13/10 15:41	112.1	113.6	105.1	108.2	☑
11	CCV 1	12/13/10 15:48	112.8	111.5	105.0	105.3	☑
12	CCB 1	12/13/10 15:52	110.7	111.6	108.5	104.3	☑
13	CCV 2	12/13/10 15:56	112.7	110.1	114.3	104.6	☑
14	CCB 2	12/13/10 16:00	114.0	106.4	124.3	103.5	☑
15	MA6P6B	12/13/10 16:04	111.2	103.1	113.9	96.7	☑
16	MA6P6C	12/13/10 16:07	107.2	107.3	112.2	101.5	☑
17	MA6P6L	12/13/10 16:11	110.1	104.7	120.2	102.0	☑
18	MA59Q	12/13/10 16:15	109.5	101.8	123.0	93.1	☑
19	MA59QP5	12/13/10 16:18	109.6	106.6	126.7	98.6	☐
20	MA59QX	12/13/10 16:22	110.4	100.6	129.0	93.3	☑
21	MA59QZ	12/13/10 16:26	100.1	105.8	119.5	90.7	☑
22	MA59X	12/13/10 16:30	101.1	105.4	117.5	92.3	☑
23	MA591	12/13/10 16:33	104.5	103.6	125.5	86.4	☑
24	MA592	12/13/10 16:37	103.4	108.2	120.8	94.8	☑
25	CCV 3	12/13/10 16:41	110.6	99.5	147.2	92.3	☑
26	CCB 3	12/13/10 16:45	110.5	104.6	139.4	97.7	☑
29	CCV 4	12/13/10 16:48	101.2	97.6	104.1	98.9	☑
30	CCB 4	12/13/10 16:52	96.9	99.8	93.9	98.1	☑
31	MA31M	12/13/10 16:56	95.4	98.4	91.4	96.5	☑
32	MA31Q	12/13/10 17:00	100.1	95.3	97.9	96.0	☑
33	MA31R	12/13/10 17:03	99.3	96.0	93.2	96.1	☑
34	MA31T	12/13/10 17:07	97.8	97.0	93.3	90.2	☑
35	MA31V	12/13/10 17:11	100.4	96.6	98.1	96.7	☑
36	MA8EL	12/13/10 17:15	97.4	94.4	90.7	89.0	☑
37	MA8EN	12/13/10 17:18	95.3	100.1	87.5	87.2	☑
38	MA8EP	12/13/10 17:22	94.4	104.2	86.6	92.8	☑
39	MA8ER	12/13/10 17:26	103.1	100.1	96.3	101.0	☑
40	CCV 5	12/13/10 17:30	100.3	98.1	103.1	90.4	☑
41	CCB 5	12/13/10 17:34	100.4	102.2	101.5	88.5	☑
42	CCV 6	12/13/10 17:37	99.1	100.8	99.3	89.1	☑
43	CCB 6	12/13/10 17:41	99.5	104.4	98.9	89.3	☑
44	MA9E2B	12/13/10 17:45	101.3	95.5	96.0	95.0	☑
45	MA9E2C	12/13/10 17:49	98.9	94.3	97.8	95.6	☑
46	MA9E2L	12/13/10 17:52	95.8	94.9	96.3	95.8	☑
47	MA8EJ	12/13/10 17:56	98.5	93.0	96.3	92.5	☑
48	MA8EJP5	12/13/10 18:00	98.4	103.5	94.7	97.0	☐

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/14/10 11:12:42

File ID: 101213A2 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	MA8EJX	12/13/10 18:04	100.8	97.6	95.2	90.5	☑
50	MA8EJZ	12/13/10 18:07	97.1	90.6	94.9	90.3	☑
51	MA8EK	12/13/10 18:11	92.7	101.4	87.6	88.5	☑
52	CCV 7	12/13/10 18:15	101.6	91.5	104.1	92.2	☑
53	CCB 7	12/13/10 18:19	101.1	100.1	103.0	90.5	☑
54	CCV 8	12/13/10 18:23	96.4	103.3	94.4	91.5	☑
55	CCB 8	12/13/10 18:26	99.8	105.6	94.6	97.7	☑
56	MA9E7B	12/13/10 18:30	97.5	107.4	90.1	94.0	☑
57	MA9E7C	12/13/10 18:34	92.6	101.4	89.5	87.3	☑
58	MA9E7L	12/13/10 18:38	90.3	100.3	90.0	86.7	☑
59	MAT82	12/13/10 18:41	96.8	92.3	97.7	90.2	☑
60	MAT82P5	12/13/10 18:45	99.5	96.2	104.9	89.5	☐
61	MAT82Z	12/13/10 18:49	91.5	95.3	92.8	84.9	☑
62	MAT83	12/13/10 18:53	98.8	95.6	97.5	97.2	☑
63	MAT84	12/13/10 18:56	97.9	95.5	96.7	89.4	☑
64	MAT85	12/13/10 19:00	95.5	103.2	89.9	97.5	☑
65	CCV 9	12/13/10 19:04	99.7	101.9	97.1	99.5	☑
66	CCB 9	12/13/10 19:08	99.6	105.9	95.4	96.3	☑
67	CCV 10	12/13/10 19:12	102.4	100.2	101.5	99.9	☑
68	CCB 10	12/13/10 19:15	105.9	95.0	106.5	96.3	☑
69	MAT86	12/13/10 19:19	105.0	104.0	98.9	103.3	☑
70	MAT87	12/13/10 19:23	104.4	95.9	100.4	98.5	☑
71	MAT88	12/13/10 19:27	103.9	102.0	96.2	101.9	☑
72	MAT89	12/13/10 19:30	106.8	97.1	100.1	98.2	☑
73	Rinse	12/13/10 19:34	106.0	105.5	105.0	91.7	☑
74	ICSA	12/13/10 19:42	92.8	81.3	85.2	84.3	☑
75	ICSAB	12/13/10 19:45	89.1	85.2	74.8	77.1	☑
76	CCV 11	12/13/10 19:53	99.7	103.9	95.3	89.5	☑
77	CCB 11	12/13/10 19:57	105.6	102.3	100.5	102.2	☑
78	CCV 12	12/13/10 20:01	102.0				☑
79	CCB 12	12/13/10 20:03	107.7				☑
80	CCV 13	12/13/10 20:06	103.9				☑
81	CCB 13	12/13/10 20:08	107.0				☑
82	MA6PQB	12/13/10 20:11	103.6				☑
83	MA6PQC	12/13/10 20:14	98.2				☑
84	MA6PQL	12/13/10 20:16	98.8				☑
85	MA11P	12/13/10 20:19	94.4				☑
86	MA11PP5	12/13/10 20:21	98.4				☐
87	MA11PZ	12/13/10 20:24	96.2				☑
88	MA12P	12/13/10 20:26	95.4				☑
89	CCV 14	12/13/10 20:29	100.8				☑
90	CCB 14	12/13/10 20:31	103.5				☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Method: 6020 **Instrument: M02** **Batch: 101213A2**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	***ICV***	***101213A2, 4***	***12/13/2010 15:14:48***	☐
ICB	***ICB***	***101213A2, 5***	***12/13/2010 15:18:37***	☐
ICSA	***ICSA***	***101213A2, 8***	***12/13/2010 15:30:02***	☐
ICSAB	***ICSAB***	***101213A2, 9***	***12/13/2010 15:33:49***	☐
CCV 1	***CCV***	***101213A2, 11***	***12/13/2010 15:48:48***	☐
CCB 1	***CCB***	***101213A2, 12***	***12/13/2010 15:52:38***	☐
CCV 2	***CCV***	***101213A2, 13***	***12/13/2010 15:56:27***	☐
CCB 2	***CCB***	***101213A2, 14***	***12/13/2010 16:00:16***	☐
CCV 3	***CCV***	***101213A2, 25***	***12/13/2010 16:41:20***	☐
CCB 3	***CCB***	***101213A2, 26***	***12/13/2010 16:45:09***	☐
CCV 4	***CCV***	***101213A2, 29***	***12/13/2010 16:48:58***	☐
CCB 4	***CCB***	***101213A2, 30***	***12/13/2010 16:52:47***	☐
CCV 5	***CCV***	***101213A2, 40***	***12/13/2010 17:30:15***	☐
CCB 5	***CCB***	***101213A2, 41***	***12/13/2010 17:34:04***	☐
CCV 6	***CCV***	***101213A2, 42***	***12/13/2010 17:37:53***	☐
CCB 6	***CCB***	***101213A2, 43***	***12/13/2010 17:41:43***	☐
CCV 7	***CCV***	***101213A2, 52***	***12/13/2010 18:15:24***	☐
CCB 7	***CCB***	***101213A2, 53***	***12/13/2010 18:19:13***	☐
CCV 8	***CCV***	***101213A2, 54***	***12/13/2010 18:23:02***	☐
CCB 8	***CCB***	***101213A2, 55***	***12/13/2010 18:26:51***	☐
CCV 9	***CCV***	***101213A2, 65***	***12/13/2010 19:04:31***	☐
CCB 9	***CCB***	***101213A2, 66***	***12/13/2010 19:08:20***	☐
CCV 10	***CCV***	***101213A2, 67***	***12/13/2010 19:12:09***	☐
CCB 10	***CCB***	***101213A2, 68***	***12/13/2010 19:15:58***	☐
ICSA	***ICSA***	***101213A2, 74***	***12/13/2010 19:42:11***	☐
ICSAB	***ICSAB***	***101213A2, 75***	***12/13/2010 19:45:59***	☐
CCV 11	***CCV***	***101213A2, 76***	***12/13/2010 19:53:27***	☐
CCB 11	***CCB***	***101213A2, 77***	***12/13/2010 19:57:16***	☐
CCV 12	***CCV***	***101213A2, 78***	***12/13/2010 20:01:06***	☐
CCB 12	***CCB***	***101213A2, 79***	***12/13/2010 20:03:43***	☐
CCV 13	***CCV***	***101213A2, 80***	***12/13/2010 20:06:20***	☐
CCB 13	***CCB***	***101213A2, 81***	***12/13/2010 20:08:57***	☐
CCV 14	***CCV***	***101213A2, 89***	***12/13/2010 20:29:21***	☐
CCB 14	***CCB***	***101213A2, 90***	***12/13/2010 20:31:58***	☐

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 4 Method 6020_
Acquired: 12/13/2010 15:14:48 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***20255***	***79.706***	***80.000***	***99.6***	
7429-90-5	***Aluminum***	***27***	***3859099***	***1012.1***	***800.00***	***127***	
7440-47-3	***Chromium***	***52***	***449340***	***80.264***	***80.000***	***100***	
7439-96-5	***Manganese***	***55***	***745094***	***82.220***	***80.000***	***103***	
7440-48-4	***Cobalt***	***59***	***521128***	***81.719***	***80.000***	***102***	
7440-02-0	***Nickel***	***60***	***107947***	***82.389***	***80.000***	***103***	
7440-50-8	***Copper***	***65***	***114765***	***81.303***	***80.000***	***102***	
7440-66-6	***Zinc***	***68***	***48429***	***89.271***	***80.000***	***112***	
7440-38-2	***Arsenic***	***75***	***116701***	***77.826***	***80.000***	***97.3***	
7440-43-9	***Cadmium***	***111***	***116740***	***74.619***	***80.000***	***93.3***	
7440-36-0	***Antimony***	***121***	***194995***	***37.074***	***40.000***	***92.7***	
7440-39-3	***Barium***	***135***	***126776***	***76.529***	***80.000***	***95.7***	
7439-92-1	***Lead***	***208***	***2227118***	***74.043***	***80.000***	***92.6***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***482471***		☑
7440-56-4	***Germanium***	***72***	***695023***		☑
7440-74-6	***Indium***	***115***	***798116***		☑
7440-30-4	***Thulium***	***169***	***927660***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 5 Method 6020_
Acquired: 12/13/2010 15:18:37 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	1	0.00262	1.0	0.078	0.0	
7429-90-5	Aluminum	27	8268	0.13057	50.0	2.1	0.0	
7440-47-3	Chromium	52	11359	0.28498	2.0	0.92	0.0	
7439-96-5	Manganese	55	820	0.02318	1.0	0.083	0.0	
7440-48-4	Cobalt	59	48	0.00482	1.0	0.057	0.0	
7440-02-0	Nickel	60	64	0.00776	2.0	0.098	0.0	
7440-50-8	Copper	65	108	-0.00304				
7440-66-6	Zinc	68	242	-0.05395	5.0	1.0	0.0	
7440-38-2	Arsenic	75	8825	0.10134	2.0	0.50	0.0	
7440-43-9	Cadmium	111	19	0.00108	1.0	0.074	0.0	
7440-36-0	Antimony	121	1193	0.19723	2.0	0.036	0.0	
7440-39-3	Barium	135	102	-0.00422	1.0	0.96	0.0	
7439-92-1	Lead	208	240	0.00214	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	489875		☑
7440-56-4	Germanium	72	682405		☑
7440-74-6	Indium	115	791621		☑
7440-30-4	Thulium	169	855899		☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 8 Method 6020_
Acquired: 12/13/2010 15:30:02 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	10	0.03866			☑
7429-90-5	Aluminum	27	16233985	92697	100000	92.7	☑
7440-47-3	Chromium	52	29262	4.1349			
7439-96-5	Manganese	55	52615	6.4129			
7440-48-4	Cobalt	59	9701	1.6941			
7440-02-0	Nickel	60	1555	1.2826			☑
7440-50-8	Copper	65	-1619	-1.3617			
7440-66-6	Zinc	68	2441	4.5378			☑
7440-38-2	Arsenic	75	8746	0.65611			☑
7440-43-9	Cadmium	111	1038	0.78422			☑
7440-36-0	Antimony	121	1194	0.24073			☑
7440-39-3	Barium	135	3743	2.6417			
7439-92-1	Lead	208	13048	0.55189			☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	445576		☑
7440-56-4	Germanium	72	623045		☑
7440-74-6	Indium	115	666531		☑
7440-30-4	Thulium	169	720788		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 9 Method 6020_
Acquired: 12/13/2010 15:33:49 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	24080	97.010	100.00	97.0	☑
7429-90-5	Aluminum	27	22869706	88832	100100	88.7	☑
7440-47-3	Chromium	52	512876	96.276	100.00	96.3	☑
7439-96-5	Manganese	55	834054	96.375	100.00	96.4	☑
7440-48-4	Cobalt	59	565750	92.887	100.00	92.9	☑
7440-02-0	Nickel	60	113496	90.702	100.00	90.7	☑
7440-50-8	Copper	65	113567	84.243	100.00	84.2	☑
7440-66-6	Zinc	68	46133	89.038	100.00	89.0	☑
7440-38-2	Arsenic	75	138096	97.949	100.00	97.9	☑
7440-43-9	Cadmium	111	119114	90.988	100.00	91.0	☑
7440-36-0	Antimony	121	210838	47.909	50.000	95.8	☑
7440-39-3	Barium	135	144793	104.48	100.00	104	☑
7439-92-1	Lead	208	2640528	107.06	100.00	107	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	471468		☑
7440-56-4	Germanium	72	663809		☑
7440-74-6	Indium	115	667854		☑
7440-30-4	Thulium	169	760769		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 11 Method 6020_
Acquired: 12/13/2010 15:48:48 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***29558***	***107.01***	***100.00***	***107***	
7429-90-5	***Aluminum***	***27***	***21365715***	***4924.0***	***5100.0***	***96.5***	
7440-47-3	***Chromium***	***52***	***668225***	***105.28***	***100.00***	***105***	
7439-96-5	***Manganese***	***55***	***1074790***	***104.07***	***100.00***	***104***	
7440-48-4	***Cobalt***	***59***	***764396***	***105.17***	***100.00***	***105***	
7440-02-0	***Nickel***	***60***	***158510***	***106.16***	***100.00***	***106***	
7440-50-8	***Copper***	***65***	***166877***	***103.75***	***100.00***	***104***	
7440-66-6	***Zinc***	***68***	***61866***	***100.12***	***100.00***	***100***	
7440-38-2	***Arsenic***	***75***	***166891***	***99.275***	***100.00***	***99.3***	
7440-43-9	***Cadmium***	***111***	***159788***	***95.105***	***100.00***	***95.1***	
7440-36-0	***Antimony***	***121***	***277278***	***49.095***	***50.000***	***98.2***	
7440-39-3	***Barium***	***135***	***181341***	***101.96***	***100.00***	***102***	
7439-92-1	***Lead***	***208***	***2980239***	***94.362***	***100.00***	***94.4***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***524524***		☑
7440-56-4	***Germanium***	***72***	***792145***		☑
7440-74-6	***Indium***	***115***	***857215***		☑
7440-30-4	***Thulium***	***169***	***974094***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 12 Method 6020_
Acquired: 12/13/2010 15:52:38 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	0.00443	1.0	0.078	0.0	
7429-90-5	Aluminum	27	10488	0.38170	50.0	2.1	0.0	
7440-47-3	Chromium	52	18728	1.2305	2.0	0.92	0.0	
7439-96-5	Manganese	55	1014	0.03101	1.0	0.083	0.0	
7440-48-4	Cobalt	59	36	0.00216	1.0	0.057	0.0	
7440-02-0	Nickel	60	63	0.00135	2.0	0.098	0.0	
7440-50-8	Copper	65	138	0.00589				
7440-66-6	Zinc	68	292	-0.02582	5.0	1.0	0.0	
7440-38-2	Arsenic	75	11009	0.71805	2.0	0.50	0.0	
7440-43-9	Cadmium	111	22	0.00231	1.0	0.074	0.0	
7440-36-0	Antimony	121	141	-0.00648	2.0	0.036	0.0	
7440-39-3	Barium	135	122	0.00228	1.0	0.96	0.0	
7439-92-1	Lead	208	272	0.00221	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	541769		☑
7440-56-4	Germanium	72	777467		☑
7440-74-6	Indium	115	857935		☑
7440-30-4	Thulium	169	964317		☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) | M02 | Reported: 12/14/10 11:13:01

Department: 120 (Metals) | Source: MetEdit

Sample: **CCV 2 (CCV)** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **ICPMS M02**
File: 101213A2 # 13
Acquired: 12/13/2010 15:56:27
Calibrated: 12/13/2010 15:07:04

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***30846***	***102.55***	***100.00***	***103***	
7429-90-5	***Aluminum***	***27***	***21614080***	***4983.4***	***5100.0***	***97.7***	
7440-47-3	***Chromium***	***52***	***654742***	***103.17***	***100.00***	***103***	
7439-96-5	***Manganese***	***55***	***1057556***	***102.45***	***100.00***	***102***	
7440-48-4	***Cobalt***	***59***	***746513***	***102.74***	***100.00***	***103***	
7440-02-0	***Nickel***	***60***	***155107***	***103.92***	***100.00***	***104***	
7440-50-8	***Copper***	***65***	***165882***	***103.17***	***100.00***	***103***	
7440-66-6	***Zinc***	***68***	***62225***	***100.73***	***100.00***	***101***	
7440-38-2	***Arsenic***	***75***	***164917***	***98.055***	***100.00***	***98.1***	
7440-43-9	***Cadmium***	***111***	***156613***	***94.397***	***100.00***	***94.4***	
7440-36-0	***Antimony***	***121***	***275548***	***49.406***	***50.000***	***98.8***	
7440-39-3	***Barium***	***135***	***177629***	***101.13***	***100.00***	***101***	
7439-92-1	***Lead***	***208***	***2930262***	***93.380***	***100.00***	***93.4***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***571125***		☑
7440-56-4	***Germanium***	***72***	***791946***		☑
7440-74-6	***Indium***	***115***	***846422***		☑
7440-30-4	***Thulium***	***169***	***967826***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 2** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 14 Method 6020_
Acquired: 12/13/2010 16:00:16 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	0.00259	1.0	0.078	0.0	
7429-90-5	Aluminum	27	10580	0.33123	50.0	2.1	0.0	
7440-47-3	Chromium	52	17292	0.91415	2.0	0.92	0.0	
7439-96-5	Manganese	55	1009	0.02765	1.0	0.083	0.0	
7440-48-4	Cobalt	59	46	0.00337	1.0	0.057	0.0	
7440-02-0	Nickel	60	67	0.00226	2.0	0.098	0.0	
7440-50-8	Copper	65	133	0.00061				
7440-66-6	Zinc	68	346	0.04602	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10861	0.41929	2.0	0.50	0.0	
7440-43-9	Cadmium	111	27	0.00580	1.0	0.074	0.0	
7440-36-0	Antimony	121	145	-0.00453	2.0	0.036	0.0	
7440-39-3	Barium	135	105	-0.00436	1.0	0.96	0.0	
7439-92-1	Lead	208	290	0.00286	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	620739		☑
7440-56-4	Germanium	72	800630		☑
7440-74-6	Indium	115	817439		☑
7440-30-4	Thulium	169	957096		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 3 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 25 Method 6020_
Acquired: 12/13/2010 16:41:20 M02
Calibrated: 12/13/2010 15:07:04 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***36412***	***94.042***	***100.00***	***94.0***	
7429-90-5	***Aluminum***	***27***	***22991951***	***5403.0***	***5100.0***	***106***	
7440-47-3	***Chromium***	***52***	***585626***	***93.880***	***100.00***	***93.9***	
7439-96-5	***Manganese***	***55***	***936639***	***92.469***	***100.00***	***92.5***	
7440-48-4	***Cobalt***	***59***	***647351***	***90.812***	***100.00***	***90.8***	
7440-02-0	***Nickel***	***60***	***135254***	***92.355***	***100.00***	***92.4***	
7440-50-8	***Copper***	***65***	***154939***	***98.216***	***100.00***	***98.2***	
7440-66-6	***Zinc***	***68***	***60704***	***100.17***	***100.00***	***100***	
7440-38-2	***Arsenic***	***75***	***157176***	***95.077***	***100.00***	***95.1***	
7440-43-9	***Cadmium***	***111***	***145828***	***97.311***	***100.00***	***97.3***	
7440-36-0	***Antimony***	***121***	***250620***	***49.750***	***50.000***	***99.5***	
7440-39-3	***Barium***	***135***	***151924***	***95.753***	***100.00***	***95.8***	
7439-92-1	***Lead***	***208***	***2639844***	***95.405***	***100.00***	***95.4***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***735119***		☑
7440-56-4	***Germanium***	***72***	***776899***		☑
7440-74-6	***Indium***	***115***	***764502***		☑
7440-30-4	***Thulium***	***169***	***853410***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 3** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 26 Method 6020_
Acquired: 12/13/2010 16:45:09 M02
Calibrated: 12/13/2010 16:41:20 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00560	1.0	0.078	0.0	
7429-90-5	Aluminum	27	11412	0.60172	50.0	2.1	0.0	
7440-47-3	Chromium	52	18365	1.1751	2.0	0.92	0.0	
7439-96-5	Manganese	55	795	0.00950	1.0	0.083	0.0	
7440-48-4	Cobalt	59	77	0.00789	1.0	0.057	0.0	
7440-02-0	Nickel	60	61	-0.00003	2.0	0.098	0.0	
7440-50-8	Copper	65	157	0.01838				
7440-66-6	Zinc	68	280	-0.04540	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10296	0.26787	2.0	0.50	0.0	
7440-43-9	Cadmium	111	25	0.00524	1.0	0.074	0.0	
7440-36-0	Antimony	121	259	0.01758	2.0	0.036	0.0	
7440-39-3	Barium	135	110	-0.00051	1.0	0.96	0.0	
7439-92-1	Lead	208	391	0.00684	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	696257		☑
7440-56-4	Germanium	72	776454		☑
7440-74-6	Indium	115	803627		☑
7440-30-4	Thulium	169	903871		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 4 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101213A2 # 29
Acquired: 12/13/2010 16:48:58
Calibrated: 12/13/2010 16:45:09

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	*Beryllium*	*9*	*35136*	*97.869*	*100.00*	*97.9*	
7429-90-5	*Aluminum*	*27*	*22081016*	*4842.9*	*5100.0*	*95.0*	
7440-47-3	*Chromium*	*52*	*599127*	*101.20*	*100.00*	*101*	
7439-96-5	*Manganese*	*55*	*965746*	*101.96*	*100.00*	*102*	
7440-48-4	*Cobalt*	*59*	*662119*	*101.14*	*100.00*	*101*	
7440-02-0	*Nickel*	*60*	*137687*	*100.66*	*100.00*	*101*	
7440-50-8	*Copper*	*65*	*158381*	*101.08*	*100.00*	*101*	
7440-66-6	*Zinc*	*68*	*61665*	*100.45*	*100.00*	*100*	
7440-38-2	*Arsenic*	*75*	*155963*	*97.984*	*100.00*	*98.0*	
7440-43-9	*Cadmium*	*111*	*143837*	*96.187*	*100.00*	*96.2*	
7440-36-0	*Antimony*	*121*	*256450*	*49.893*	*50.000*	*99.8*	
7440-39-3	*Barium*	*135*	*158842*	*101.96*	*100.00*	*102*	
7439-92-1	*Lead*	*208*	*2690501*	*97.324*	*100.00*	*97.3*	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	*Lithium-6*	*6*	*724810*		☑
7440-56-4	*Germanium*	*72*	*785688*		☑
7440-74-6	*Indium*	*115*	*783959*		☑
7440-30-4	*Thulium*	*169*	*893658*		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 4** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 30 Method 6020_
Acquired: 12/13/2010 16:52:47 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00159	1.0	0.078	0.0	
7429-90-5	Aluminum	27	11265	0.04735	50.0	2.1	0.0	
7440-47-3	Chromium	52	18016	0.03986	2.0	0.92	0.0	
7439-96-5	Manganese	55	843	0.00802	1.0	0.083	0.0	
7440-48-4	Cobalt	59	79	0.00075	1.0	0.057	0.0	
7440-02-0	Nickel	60	58	-0.00111	2.0	0.098	0.0	
7440-50-8	Copper	65	157	0.00339				
7440-66-6	Zinc	68	304	0.05702	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10371	0.27672	2.0	0.50	0.0	
7440-43-9	Cadmium	111	28	0.00180	1.0	0.074	0.0	
7440-36-0	Antimony	121	217	-0.00798	2.0	0.036	0.0	
7440-39-3	Barium	135	130	0.01302	1.0	0.96	0.0	
7439-92-1	Lead	208	383	-0.00001	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	653863		☑
7440-56-4	Germanium	72	752417		☑
7440-74-6	Indium	115	801622		☑
7440-30-4	Thulium	169	886269		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 5 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 40 Method 6020_
Acquired: 12/13/2010 17:30:15 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	*Beryllium*	*9*	*35362*	*99.443*	*100.00*	*99.4*	
7429-90-5	*Aluminum*	*27*	*23066303*	*5104.2*	*5100.0*	*100*	
7440-47-3	*Chromium*	*52*	*606952*	*103.50*	*100.00*	*104*	
7439-96-5	*Manganese*	*55*	*924640*	*98.481*	*100.00*	*98.5*	
7440-48-4	*Cobalt*	*59*	*635492*	*97.930*	*100.00*	*97.9*	
7440-02-0	*Nickel*	*60*	*131380*	*96.900*	*100.00*	*96.9*	
7440-50-8	*Copper*	*65*	*152116*	*97.937*	*100.00*	*97.9*	
7440-66-6	*Zinc*	*68*	*60761*	*99.853*	*100.00*	*99.9*	
7440-38-2	*Arsenic*	*75*	*157929*	*100.25*	*100.00*	*100*	
7440-43-9	*Cadmium*	*111*	*151837*	*101.02*	*100.00*	*101*	
7440-36-0	*Antimony*	*121*	*245796*	*47.583*	*50.000*	*95.2*	
7440-39-3	*Barium*	*135*	*145690*	*93.050*	*100.00*	*93.0*	
7439-92-1	*Lead*	*208*	*2524335*	*99.903*	*100.00*	*99.9*	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	*Lithium-6*	*6*	*717776*		☑
7440-56-4	*Germanium*	*72*	*778763*		☑
7440-74-6	*Indium*	*115*	*787983*		☑
7440-30-4	*Thulium*	*169*	*816823*		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 5** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 41 Method 6020_
Acquired: 12/13/2010 17:34:04 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	-0.00114	1.0	0.078	0.0	
7429-90-5	Aluminum	27	12362	0.19948	50.0	2.1	0.0	
7440-47-3	Chromium	52	20620	0.38251	2.0	0.92	0.0	
7439-96-5	Manganese	55	836	0.00406	1.0	0.083	0.0	
7440-48-4	Cobalt	59	72	-0.00076	1.0	0.057	0.0	
7440-02-0	Nickel	60	60	-0.00130	2.0	0.098	0.0	
7440-50-8	Copper	65	130	-0.01812				
7440-66-6	Zinc	68	245	-0.06004	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10226	-0.07685	2.0	0.50	0.0	
7440-43-9	Cadmium	111	25	-0.00033	1.0	0.074	0.0	
7440-36-0	Antimony	121	215	-0.00934	2.0	0.036	0.0	
7440-39-3	Barium	135	113	0.00081	1.0	0.96	0.0	
7439-92-1	Lead	208	342	-0.00017	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	706988		☑
7440-56-4	Germanium	72	779681		☑
7440-74-6	Indium	115	821020		☑
7440-30-4	Thulium	169	799871		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 6 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 42 Method 6020_
Acquired: 12/13/2010 17:37:53 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***34403***	***100.42***	***100.00***	***100***	
7429-90-5	***Aluminum***	***27***	***22356274***	***5004.5***	***5100.0***	***98.1***	
7440-47-3	***Chromium***	***52***	***617871***	***106.68***	***100.00***	***107***	
7439-96-5	***Manganese***	***55***	***943489***	***101.65***	***100.00***	***102***	
7440-48-4	***Cobalt***	***59***	***630585***	***98.291***	***100.00***	***98.3***	
7440-02-0	***Nickel***	***60***	***129724***	***96.786***	***100.00***	***96.8***	
7440-50-8	***Copper***	***65***	***148091***	***96.449***	***100.00***	***96.4***	
7440-66-6	***Zinc***	***68***	***59177***	***98.372***	***100.00***	***98.4***	
7440-38-2	***Arsenic***	***75***	***155871***	***100.08***	***100.00***	***100***	
7440-43-9	***Cadmium***	***111***	***153136***	***99.080***	***100.00***	***99.1***	
7440-36-0	***Antimony***	***121***	***247992***	***46.675***	***50.000***	***93.4***	
7440-39-3	***Barium***	***135***	***145441***	***90.317***	***100.00***	***90.3***	
7439-92-1	***Lead***	***208***	***2466115***	***99.027***	***100.00***	***99.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***691632***		☑
7440-56-4	***Germanium***	***72***	***769850***		☑
7440-74-6	***Indium***	***115***	***810291***		☑
7440-30-4	***Thulium***	***169***	***805055***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 6** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 43 Method 6020_
Acquired: 12/13/2010 17:41:43 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	3	0.00108	1.0	0.078	0.0	
7429-90-5	Aluminum	27	12181	0.18326	50.0	2.1	0.0	
7440-47-3	Chromium	52	19542	0.22376	2.0	0.92	0.0	
7439-96-5	Manganese	55	886	0.01027	1.0	0.083	0.0	
7440-48-4	Cobalt	59	85	0.00130	1.0	0.057	0.0	
7440-02-0	Nickel	60	60	-0.00089	2.0	0.098	0.0	
7440-50-8	Copper	65	124	-0.02066				
7440-66-6	Zinc	68	289	0.01672	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10743	0.33918	2.0	0.50	0.0	
7440-43-9	Cadmium	111	25	-0.00079	1.0	0.074	0.0	
7440-36-0	Antimony	121	189	-0.01493	2.0	0.036	0.0	
7440-39-3	Barium	135	106	-0.00508	1.0	0.96	0.0	
7439-92-1	Lead	208	381	0.00127	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	688722		☑
7440-56-4	Germanium	72	772855		☑
7440-74-6	Indium	115	838836		☑
7440-30-4	Thulium	169	807422		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 7 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 52 Method 6020_
Acquired: 12/13/2010 18:15:24 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***35364***	***98.514***	***100.00***	***98.5***	
7429-90-5	***Aluminum***	***27***	***22762833***	***4975.1***	***5100.0***	***97.6***	
7440-47-3	***Chromium***	***52***	***559224***	***93.900***	***100.00***	***93.9***	
7439-96-5	***Manganese***	***55***	***896703***	***94.325***	***100.00***	***94.3***	
7440-48-4	***Cobalt***	***59***	***626156***	***95.302***	***100.00***	***95.3***	
7440-02-0	***Nickel***	***60***	***131515***	***95.805***	***100.00***	***95.8***	
7440-50-8	***Copper***	***65***	***153091***	***97.350***	***100.00***	***97.4***	
7440-66-6	***Zinc***	***68***	***61458***	***99.753***	***100.00***	***99.8***	
7440-38-2	***Arsenic***	***75***	***158536***	***99.344***	***100.00***	***99.3***	
7440-43-9	***Cadmium***	***111***	***140444***	***100.13***	***100.00***	***100***	
7440-36-0	***Antimony***	***121***	***243817***	***50.577***	***50.000***	***101***	
7440-39-3	***Barium***	***135***	***146643***	***100.36***	***100.00***	***100***	
7439-92-1	***Lead***	***208***	***2569255***	***99.698***	***100.00***	***99.7***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***724558***		☑
7440-56-4	***Germanium***	***72***	***788499***		☑
7440-74-6	***Indium***	***115***	***735280***		☑
7440-30-4	***Thulium***	***169***	***833149***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 7** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 53 Method 6020_
Acquired: 12/13/2010 18:19:13 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***4***	***0.00260***	***1.0***	***0.078***	***0.0***	
7429-90-5	***Aluminum***	***27***	***13146***	***0.35272***	***50.0***	***2.1***	***0.0***	
7440-47-3	***Chromium***	***52***	***18863***	***0.05132***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***852***	***0.00510***	***1.0***	***0.083***	***0.0***	
7440-48-4	***Cobalt***	***59***	***92***	***0.00216***	***1.0***	***0.057***	***0.0***	
7440-02-0	***Nickel***	***60***	***57***	***-0.00389***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***151***	***-0.00518***				
7440-66-6	***Zinc***	***68***	***286***	***0.00490***	***5.0***	***1.0***	***0.0***	
7440-38-2	***Arsenic***	***75***	***10089***	***-0.21673***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***26***	***0.00018***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***291***	***0.00592***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***100***	***-0.00639***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***450***	***0.00378***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***717468***		☑
7440-56-4	***Germanium***	***72***	***785107***		☑
7440-74-6	***Indium***	***115***	***804501***		☑
7440-30-4	***Thulium***	***169***	***818212***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 8 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 54 Method 6020_
Acquired: 12/13/2010 18:23:02 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***32697***	***100.41***	***100.00***	***100***	
7429-90-5	***Aluminum***	***27***	***21298746***	***4902.8***	***5100.0***	***96.1***	
7440-47-3	***Chromium***	***52***	***619502***	***110.10***	***100.00***	***110***	
7439-96-5	***Manganese***	***55***	***983480***	***108.97***	***100.00***	***109***	
7440-48-4	***Cobalt***	***59***	***669730***	***107.36***	***100.00***	***107***	
7440-02-0	***Nickel***	***60***	***137644***	***105.61***	***100.00***	***106***	
7440-50-8	***Copper***	***65***	***150642***	***100.89***	***100.00***	***101***	
7440-66-6	***Zinc***	***68***	***57686***	***98.610***	***100.00***	***98.6***	
7440-38-2	***Arsenic***	***75***	***153336***	***101.33***	***100.00***	***101***	
7440-43-9	***Cadmium***	***111***	***151705***	***95.766***	***100.00***	***95.8***	
7440-36-0	***Antimony***	***121***	***259905***	***47.734***	***50.000***	***95.5***	
7440-39-3	***Barium***	***135***	***157099***	***95.189***	***100.00***	***95.2***	
7439-92-1	***Lead***	***208***	***2380377***	***93.094***	***100.00***	***93.1***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***657484***		☑
7440-56-4	***Germanium***	***72***	***748655***		☑
7440-74-6	***Indium***	***115***	***830479***		☑
7440-30-4	***Thulium***	***169***	***827160***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 8** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 55 Method 6020_
Acquired: 12/13/2010 18:26:51 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00358	1.0	0.078	0.0	
7429-90-5	Aluminum	27	12378	0.22067	50.0	2.1	0.0	
7440-47-3	Chromium	52	19246	0.16283	2.0	0.92	0.0	
7439-96-5	Manganese	55	948	0.01659	1.0	0.083	0.0	
7440-48-4	Cobalt	59	98	0.00328	1.0	0.057	0.0	
7440-02-0	Nickel	60	68	0.00488	2.0	0.098	0.0	
7440-50-8	Copper	65	143	-0.00891				
7440-66-6	Zinc	68	265	-0.02416	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10880	0.41419	2.0	0.50	0.0	
7440-43-9	Cadmium	111	35	0.00509	1.0	0.074	0.0	
7440-36-0	Antimony	121	205	-0.01239	2.0	0.036	0.0	
7440-39-3	Barium	135	130	0.00860	1.0	0.96	0.0	
7439-92-1	Lead	208	450	0.00248	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	658435		☑
7440-56-4	Germanium	72	774809		☑
7440-74-6	Indium	115	849022		☑
7440-30-4	Thulium	169	882802		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 9 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 65 Method 6020_
Acquired: 12/13/2010 19:04:31 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***32564***	***97.273***	***100.00***	***97.3***	
7429-90-5	***Aluminum***	***27***	***21059609***	***4689.3***	***5100.0***	***91.9***	
7440-47-3	***Chromium***	***52***	***621021***	***106.66***	***100.00***	***107***	
7439-96-5	***Manganese***	***55***	***993245***	***106.46***	***100.00***	***106***	
7440-48-4	***Cobalt***	***59***	***686378***	***106.43***	***100.00***	***106***	
7440-02-0	***Nickel***	***60***	***143081***	***106.19***	***100.00***	***106***	
7440-50-8	***Copper***	***65***	***162618***	***105.35***	***100.00***	***105***	
7440-66-6	***Zinc***	***68***	***60594***	***100.19***	***100.00***	***100***	
7440-38-2	***Arsenic***	***75***	***153927***	***98.180***	***100.00***	***98.2***	
7440-43-9	***Cadmium***	***111***	***147367***	***94.343***	***100.00***	***94.3***	
7440-36-0	***Antimony***	***121***	***262140***	***48.827***	***50.000***	***97.7***	
7440-39-3	***Barium***	***135***	***161246***	***99.099***	***100.00***	***99.1***	
7439-92-1	***Lead***	***208***	***2501480***	***89.897***	***100.00***	***89.9***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***675743***		☑
7440-56-4	***Germanium***	***72***	***774009***		☑
7440-74-6	***Indium***	***115***	***818877***		☑
7440-30-4	***Thulium***	***169***	***899490***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 9** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 66 Method 6020_
Acquired: 12/13/2010 19:08:20 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***5***	***0.00547***	***1.0***	***0.078***	***0.0***	
7429-90-5	***Aluminum***	***27***	***12479***	***0.24821***	***50.0***	***2.1***	***0.0***	
7440-47-3	***Chromium***	***52***	***18701***	***0.07261***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***911***	***0.01282***	***1.0***	***0.083***	***0.0***	
7440-48-4	***Cobalt***	***59***	***113***	***0.00569***	***1.0***	***0.057***	***0.0***	
7440-02-0	***Nickel***	***60***	***69***	***0.00576***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***154***	***-0.00167***				
7440-66-6	***Zinc***	***68***	***276***	***-0.00398***	***5.0***	***1.0***	***0.0***	
7440-38-2	***Arsenic***	***75***	***10579***	***0.22216***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***31***	***0.00236***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***199***	***-0.01357***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***127***	***0.00657***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***474***	***0.00360***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***664215***		☑
7440-56-4	***Germanium***	***72***	***773274***		☑
7440-74-6	***Indium***	***115***	***851217***		☑
7440-30-4	***Thulium***	***169***	***870626***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 10 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 67 Method 6020_
Acquired: 12/13/2010 19:12:09 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***32911***	***93.972***	***100.00***	***94.0***	
7429-90-5	***Aluminum***	***27***	***20763785***	***4502.4***	***5100.0***	***88.3***	
7440-47-3	***Chromium***	***52***	***606246***	***101.25***	***100.00***	***101***	
7439-96-5	***Manganese***	***55***	***977037***	***101.98***	***100.00***	***102***	
7440-48-4	***Cobalt***	***59***	***677119***	***102.26***	***100.00***	***102***	
7440-02-0	***Nickel***	***60***	***142446***	***102.96***	***100.00***	***103***	
7440-50-8	***Copper***	***65***	***163608***	***103.23***	***100.00***	***103***	
7440-66-6	***Zinc***	***68***	***62064***	***99.948***	***100.00***	***99.9***	
7440-38-2	***Arsenic***	***75***	***156331***	***97.039***	***100.00***	***97.0***	
7440-43-9	***Cadmium***	***111***	***145103***	***94.491***	***100.00***	***94.5***	
7440-36-0	***Antimony***	***121***	***259995***	***49.259***	***50.000***	***98.5***	
7440-39-3	***Barium***	***135***	***160922***	***100.60***	***100.00***	***101***	
7439-92-1	***Lead***	***208***	***2592693***	***92.825***	***100.00***	***92.8***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***706847***		☑
7440-56-4	***Germanium***	***72***	***794711***		☑
7440-74-6	***Indium***	***115***	***805031***		☑
7440-30-4	***Thulium***	***169***	***902931***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 10** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 68 Method 6020_
Acquired: 12/13/2010 19:15:58 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	5	0.00498	1.0	0.078	0.0	
7429-90-5	Aluminum	27	13993	0.40028	50.0	2.1	0.0	
7440-47-3	Chromium	52	16926	-0.42011	2.0	0.92	0.0	
7439-96-5	Manganese	55	863	0.00222	1.0	0.083	0.0	
7440-48-4	Cobalt	59	115	0.00490	1.0	0.057	0.0	
7440-02-0	Nickel	60	63	-0.00131	2.0	0.098	0.0	
7440-50-8	Copper	65	137	-0.01798				
7440-66-6	Zinc	68	287	-0.01394	5.0	1.0	0.0	
7440-38-2	Arsenic	75	10636	-0.17044	2.0	0.50	0.0	
7440-43-9	Cadmium	111	34	0.00658	1.0	0.074	0.0	
7440-36-0	Antimony	121	187	-0.01177	2.0	0.036	0.0	
7440-39-3	Barium	135	120	0.01083	1.0	0.96	0.0	
7439-92-1	Lead	208	536	0.00590	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	741732		☑
7440-56-4	Germanium	72	822293		☑
7440-74-6	Indium	115	763056		☑
7440-30-4	Thulium	169	870679		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 11 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 76 Method 6020_
Acquired: 12/13/2010 19:53:27 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***33047***	***100.58***	***100.00***	***101***	
7429-90-5	***Aluminum***	***27***	***21595360***	***4809.3***	***5100.0***	***94.3***	
7440-47-3	***Chromium***	***52***	***632692***	***108.74***	***100.00***	***109***	
7439-96-5	***Manganese***	***55***	***976351***	***104.66***	***100.00***	***105***	
7440-48-4	***Cobalt***	***59***	***663834***	***102.95***	***100.00***	***103***	
7440-02-0	***Nickel***	***60***	***135218***	***100.37***	***100.00***	***100***	
7440-50-8	***Copper***	***65***	***149105***	***96.611***	***100.00***	***96.6***	
7440-66-6	***Zinc***	***68***	***58607***	***96.916***	***100.00***	***96.9***	
7440-38-2	***Arsenic***	***75***	***157019***	***100.32***	***100.00***	***100***	
7440-43-9	***Cadmium***	***111***	***153147***	***96.158***	***100.00***	***96.2***	
7440-36-0	***Antimony***	***121***	***254732***	***46.531***	***50.000***	***93.1***	
7440-39-3	***Barium***	***135***	***153736***	***92.646***	***100.00***	***92.6***	
7439-92-1	***Lead***	***208***	***2415133***	***96.477***	***100.00***	***96.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***663288***		☑
7440-56-4	***Germanium***	***72***	***773811***		☑
7440-74-6	***Indium***	***115***	***834993***		☑
7440-30-4	***Thulium***	***169***	***809352***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 11** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 77 Method 6020_
Acquired: 12/13/2010 19:57:16 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	8	0.01341	1.0	0.078	0.0	
7429-90-5	Aluminum	27	14002	0.41064	50.0	2.1	0.0	
7440-47-3	Chromium	52	18532	-0.14281	2.0	0.92	0.0	
7439-96-5	Manganese	55	1046	0.02090	1.0	0.083	0.0	
7440-48-4	Cobalt	59	137	0.00827	1.0	0.057	0.0	
7440-02-0	Nickel	60	66	0.00122	2.0	0.098	0.0	
7440-50-8	Copper	65	152	-0.00814				
7440-66-6	Zinc	68	293	-0.00391	5.0	1.0	0.0	
7440-38-2	Arsenic	75	11585	0.46047	2.0	0.50	0.0	
7440-43-9	Cadmium	111	35	0.00579	1.0	0.074	0.0	
7440-36-0	Antimony	121	183	-0.01527	2.0	0.036	0.0	
7440-39-3	Barium	135	119	0.00401	1.0	0.96	0.0	
7439-92-1	Lead	208	640	0.00839	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	699668		☑
7440-56-4	Germanium	72	819954		☑
7440-74-6	Indium	115	821712		☑
7440-30-4	Thulium	169	923984		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 12 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 78 Method 6020_
Acquired: 12/13/2010 20:01:06 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***995437***	***104.27***	***100.00***	***104***	
7440-38-2	***Arsenic***	***75***	***162270***	***101.38***	***100.00***	***101***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***792081***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 12** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 79 Method 6020_
Acquired: 12/13/2010 20:03:43 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	***Manganese***	***55***	***1097***	***0.02396***	***1.0***	***0.083***	***0.0***	
7440-38-2	***Arsenic***	***75***	***11478***	***0.24701***	***2.0***	***0.50***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***836294***		☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 13 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 80 Method 6020_
Acquired: 12/13/2010 20:06:20 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***995142***	***102.28***	***100.00***	***102***	
7440-38-2	***Arsenic***	***75***	***162690***	***99.613***	***100.00***	***99.6***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***807061***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 13** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 81 Method 6020_
Acquired: 12/13/2010 20:08:57 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	***Manganese***	***55***	***1070***	***0.02201***	***1.0***	***0.083***	***0.0***	
7440-38-2	***Arsenic***	***75***	***11614***	***0.38023***	***2.0***	***0.50***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***830720***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:13:01

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 14 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 89 Method 6020_
Acquired: 12/13/2010 20:29:21 M02
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***946485***	***100.36***	***100.00***	***100***	
7440-38-2	***Arsenic***	***75***	***154543***	***97.483***	***100.00***	***97.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***782305***		☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6020 (SOP: SAC-MT-001) | M02 | Reported: 12/14/10 11:13:01

Department: 120 (Metals)

Source: MetEdit

Sample: **CCB 14**

Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101213A2 # 90
Acquired: 12/13/2010 20:31:58
Calibrated: 12/13/2010 16:45:09

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	***Manganese***	***55***	***964***	***0.01466***	***1.0***	***0.083***	***0.0***	
7440-38-2	***Arsenic***	***75***	***10903***	***0.16383***	***2.0***	***0.50***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***			☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:14:21

Department: 120 (Metals) Source: MetEdit

Sample: **MA11PP5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 86 Method 6020_
Acquired: 12/13/2010 20:21:41 M02 Matrix: AIR
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7439-96-5	***Manganese***	***55***	***931906***	***506.14***	***496.68***	***1.91***	***0.14***	***1.9***	☑
7440-38-2	***Arsenic***	***75***	***11234***	***3.8380***	***1.1454***	***235***	***0.41***	***NC***	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***763682***		☐

**** Analyte not requested for this batch, no MDL***

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/14/10 11:14:28

Department: 120 (Metals) Source: MetEdit

Sample: **MA11PZ** Spike Dilution: **1.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02** Channel 262
File: 101213A2 # 87 Method 6020_
Acquired: 12/13/2010 20:24:14 M02 Matrix: AIR
Calibrated: 12/13/2010 16:45:09 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7439-96-5	***Manganese***	***55***	***5866483***	***652.05***	***496.68***	***77.7***	***200***		☑
7440-38-2	***Arsenic***	***75***	***265526***	***181.06***	***1.1454***	***90.0***	***200***		☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***746799***		☑

Reviewed by: Date:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): (M01) M02		Method 6020 SOP SAC-MT-0001	
File Number	Batch Numbers	Date	Analyst
101215A1	344269	12-15-10	SH

Lot Numbers: G0L080454	YES	NO	NA
1. Copy of analysis protocol used included?	✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓		
3. ICB & CCBs < reporting limit or recal and rerun?	✓		
4. 10 samples or less analyzed between calibration checks?	✓		
5. All parameters within linear range?	✓		
6. LCS/LCSD within limits?	✓		
7. Prep blank value < reporting limit or all samples >20x blank?			✓
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?	✓		
9. Appropriate dilution factors applied to data?			✓
10. Matrix spike and spike dup within customer defined limits?			✓
11. Each batch checked for presence of internal standard in samples?			✓
12. Anomalies entered using Clouseau?			✓

COMMENTS: _____

REVIEWED BY: MTZ	DATA ENTERED BY: SH
DATE: 12/15/10	DATE: 12-15-10

Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020,200.8
User Name: metal
Computer Name: SACP317BFB
Dataset File Path: C:\elandata\Dataset\101215a1\
Report Date/Time: Wednesday, December 15, 2010 12:15:06

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE SHARGRAVE	11:17:21 Wed 15-Dec-10	Sample	
	TUNE SHARGRAVE	11:21:54 Wed 15-Dec-10	Sample	Auto Lens Calib
	DAILY SHARGRAVE	11:28:28 Wed 15-Dec-10	Sample	
	Rinse 2X	11:32:47 Wed 15-Dec-10	Sample	
	Blank	11:35:45 Wed 15-Dec-10	Blank	
	Standard 1	11:38:38 Wed 15-Dec-10	Standard #1	
	ICV	11:41:15 Wed 15-Dec-10	Sample	
	ICB	11:43:57 Wed 15-Dec-10	Sample	
	LLSTD1	11:46:38 Wed 15-Dec-10	Sample	LLSTD@10X
	LLSTD2	11:49:16 Wed 15-Dec-10	Sample	LLSTD@5X
	ICSA	11:51:55 Wed 15-Dec-10	Sample	
	ICSAB	11:54:35 Wed 15-Dec-10	Sample	
	Rinse	12:00:56 Wed 15-Dec-10	Sample	
344269	MA6PQL	12:07:13 Wed 15-Dec-10	Sample	G0L100000-269 LCSD
	CCV 1	12:09:53 Wed 15-Dec-10	Sample	
	CCB 1	12:12:36 Wed 15-Dec-10	Sample	

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 12/15/10 12:18:26

File ID: 101215A1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	*Rinse 2X*				*2.0*	*12/15/10 11:32*		☐
2	*Blank*				*1.0*	*12/15/10 11:35*		☐
3	*Standard1*				*1.0*	*12/15/10 11:38*		☐
4	*ICV*				*1.0*	*12/15/10 11:41*		☐
5	*ICB*				*1.0*	*12/15/10 11:43*		☐
6	*LLSTD1*				*1.0*	*12/15/10 11:46*		☐
7	*LLSTD2*				*1.0*	*12/15/10 11:49*		☐
8	*ICSA*				*1.0*	*12/15/10 11:51*		☐
9	*ICSAB*				*1.0*	*12/15/10 11:54*		☐
10	*Rinse*				*1.0*	*12/15/10 12:00*		☐
11	*MA6PQL*	*G0L100000*	*0344269*	*2A*	*1.0*	*12/15/10 12:07*		☐
12	*CCV 1*				*1.0*	*12/15/10 12:09*		☐
13	*CCB 1*				*1.0*	*12/15/10 12:12*		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/15/10 12:18:26

File ID: 101215A1 **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Q
1	*Rinse 2X*	*12/15/10 11:32*	*101.8*	☐
2	*Blank*	*12/15/10 11:35*	*100.0*	☑
3	*Standard1*	*12/15/10 11:38*	*102.5*	☑
4	*ICV*	*12/15/10 11:41*	*102.5*	☑
5	*ICB*	*12/15/10 11:43*	*101.7*	☑
6	*LLSTD1*	*12/15/10 11:46*	*102.2*	☑
7	*LLSTD2*	*12/15/10 11:49*	*104.8*	☑
8	*ICSA*	*12/15/10 11:51*	*94.9*	☑
9	*ICSAB*	*12/15/10 11:54*	*93.6*	☑
10	*Rinse*	*12/15/10 12:00*	*107.2*	☑
11	*MA6PQL*	*12/15/10 12:07*	*107.8*	☑
12	*CCV 1*	*12/15/10 12:09*	*106.0*	☑
13	*CCB 1*	*12/15/10 12:12*	*105.8*	☑

TAL-W.SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 000-NG.mth
File Path: C:\elandata\Method\000-NG.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	default.tun
Optimization File:	default.dac
QC Enabled:	Yes
Settling Time:	Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				

TAL-W. SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 4075-25B

Internal standard: 4075-22B

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-27E

ICV: 4075-20D

ICSA: 4075-29A

ICSAB: 4075-28E

File Number: **101215A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Wednesday, December 15, 2010 11:17:21

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.077	1584	0.755	2039	
Be	9.012	9.079	2053	0.759	2031	
Mg	23.985	23.978	5727	0.718	1976	
Co	58.933	58.979	14297	0.726	1887	
In	114.904	114.928	27960	0.733	1842	
Ce	139.905	139.928	34045	0.731	1881	
Tl	204.975	204.979	49759	0.733	2096	
Pb	207.977	207.978	50484	0.731	2111	
U	238.050	238.026	57706	0.737	2273	

Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Wednesday, December 15, 2010 11:17:21
Sample ID: TUNE SHARGRAVE

Parameter Settings

Nebulizer Gas Flow	0.8
Lens Voltage	6.8
ICP RF Power	1050.0
Analog Stage Voltage	-1725.0
Pulse Stage Voltage	1300.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

AutoLens Calibration

Date:	11:21:54 Wed 15-Dec-10
Sample Filename:	TUNE SHARGRAVE.002
Dataset Pathname:	101215a1\
Lens Voltage Start:	5.50 V
Lens Voltage End:	10.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0236
Intercept:	6.5626

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	6.8 V	4762 cps	19
Co	58.933	8.0 V	180780 cps	19
In	114.904	9.3 V	393772 cps	19

Dual Detector Calibration

Date:	13:16:18 Mon 06-Dec-10
Sample Filename:	DAILY SHARGRAVE.1153
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	5932	2.11e+009 cps
Li	7.016	5535	2.26e+009 cps
Be	9.012	5043	2.48e+009 cps
B	11.009	5168	2.42e+009 cps
Na	22.990	5069	2.47e+009 cps

Mg	23.985	4703	2.66e+009 cps
Mg	24.986	4616	2.71e+009 cps
Al	26.982	4346	2.88e+009 cps
P	30.994	4128	3.03e+009 cps
K	38.964	3943	3.17e+009 cps
Ca	42.959		cps
Ca	43.956	3943	3.17e+009 cps
Sc	44.956	3972	3.15e+009 cps
V	50.944	3968	3.15e+009 cps
Cr	51.941	3714	3.37e+009 cps
Fe	53.940	3682	3.40e+009 cps
Mn	54.938	3659	3.42e+009 cps
Fe	56.935	3603	3.47e+009 cps
Co	58.933	3524	3.55e+009 cps
Ni	59.933	3445	3.63e+009 cps
Cu	62.930	3352	3.73e+009 cps
Cu	64.928	3328	3.76e+009 cps
Zn	67.925	3369	3.72e+009 cps
Ge	71.922	3430	3.65e+009 cps
As	74.922	3392	3.69e+009 cps
Se	77.917	3446	3.63e+009 cps
Br	78.918		cps
Se	81.917	3364	3.72e+009 cps
Sr	87.906		cps
Mo	96.906	3398	3.68e+009 cps
Ag	106.905	3086	4.06e+009 cps
Ag	108.905	3459	3.62e+009 cps
Cd	110.904	3125	4.01e+009 cps
Cd	113.904	3112	4.02e+009 cps
In	114.904	3133	4.00e+009 cps
Sn	117.902	3162	3.96e+009 cps
Sb	120.904	3163	3.96e+009 cps
Ba	134.906	3064	4.09e+009 cps
Tm	168.934	2957	4.23e+009 cps
Tl	204.975	2797	4.47e+009 cps
Pb	207.977	2810	4.45e+009 cps
Bi	208.980		cps
U	238.050	2783	4.50e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY SHARGRAVE
Sample Date/Time: Wednesday, December 15, 2010 11:28:28
Sample Description:
Sample File: C:\elandata\Sample\0344269X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\101215a1\DAILY SHARGRAVE.004
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	34747.182	1028.530	2.960
	Rh	103	261749.030	860.291	0.329
	Pb	208	192077.136	1143.425	0.595
⌈>	Ba	138	272793.611	1512.171	0.554
⌊	Ba++	69	0.026	0.001	2.392
⌈>	Ce	140	345006.662	2356.382	0.683
⌊	CeO	156	0.027	0.000	0.683
	Bkgd	220	7.143	1.750	24.495
	Li	7	24668.295	566.005	2.294
	Be	9	2183.119	49.715	2.277
	Co	59	110396.116	1832.707	1.660
	In	115	1621016.173	38450.819	2.372
	Tl	205	263332.400	2925.642	1.111

Sample ID: Rinse 2X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:32:47
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\Rinse 2X.005
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	44	Ca			68773.301	ug/L	0.000
	55	Mn			11429.255	ug/L	0.000
	75	As			15812.644	ug/L	0.000
>	72	Ge-1			1203348.390	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:35:45
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\Blank.006
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca			64116.052	ug/L	
|	55	Mn			2349.767	ug/L	
|	75	As			16351.281	ug/L	
⌞>	72	Ge-1			1181777.953	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:38:38
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\Standard 1.007
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	5100.000000	1.382	1620294.950	ug/L	64116.052
|	55	Mn	100.000000	1.968	1594136.936	ug/L	2349.767
|	75	As	100.000000	2.241	254704.442	ug/L	16351.281
⌊>	72	Ge-1			1211008.715	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	

SOP No. SAC-MT-0001

SHargrave

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, December 15, 2010 11:41:15

Method File: C:\elandata\Method\000-NG.mth

Dataset File: C:\elandata\Dataset\101215a1\ICV .008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	858.352754	1.727	327323.183	ug/L	64116.052
|	55	Mn	81.533864	1.964	1300159.059	ug/L	2349.767
|	75	As	80.747733	1.875	208896.730	ug/L	16351.281
⌊>	72	Ge-1			1210956.699	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	102.469

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:43:57
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\ICB.009
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	-3.560631	93.094	64101.236	ug/L	64116.052
|	55	Mn	0.004567	66.410	2460.809	ug/L	2349.767
|	75	As	-0.737518	41.720	14877.981	ug/L	16351.281
⌞>	72	Ge-1			1201572.646	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	101.675

SOP No. SAC-MT-0001

SHargrave

Sample ID: LLSTD1

Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:46:38
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\LLSTD1.010
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	43.051708	3.815	78594.027	ug/L	64116.052
|	55	Mn	1.048036	0.854	19037.770	ug/L	2349.767
|	75	As	0.511757	59.956	17922.533	ug/L	16351.281
⌊>	72	Ge-1			1207449.773	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	102.172

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:49:16
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\LLSTD2.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 84
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	84.740798	8.653	93563.819	ug/L	64116.052
|	55	Mn	2.012992	2.532	35219.861	ug/L	2349.767
|	75	As	1.430547	30.821	20598.977	ug/L	16351.281
⌊>	72	Ge-1			1238294.641	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	104.782

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:51:55
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\ICSA .012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	102679.351573	0.966	29039283.407	ug/L	64116.052
|	55	Mn	7.235743	1.491	108867.351	ug/L	2349.767
|	75	As	0.302285	99.588	16176.176	ug/L	16351.281
⌞>	72	Ge-1			1121131.367	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	94.868

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 11:54:35
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\ICSAB.013
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	104575.944502	0.590	29178966.572	ug/L	64116.052
|	55	Mn	110.619742	0.960	1610708.191	ug/L	2349.767
|	75	As	105.395391	0.110	244412.598	ug/L	16351.281
⌞>	72	Ge-1			1106043.706	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	93.591

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:00:56
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\Rinse.014
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	12.934365	20.348	72861.079	ug/L	64116.052
|	55	Mn	0.623971	1.166	12912.086	ug/L	2349.767
|	75	As	-0.517283	21.611	16242.720	ug/L	16351.281
⌊>	72	Ge-1			1266999.805	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	107.211

SOP No. SAC-MT-0001

SHargrave

Sample ID: MA6PQL

Sample Description: G0L100000-269 LCSD
Batch ID: 344269
Sample Date/Time: Wednesday, December 15, 2010 12:07:13
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\MA6PQL.015
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 9
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1154.078104	3.847	438867.574	ug/L	64116.052
|	55	Mn	186.918594	3.628	3130194.294	ug/L	2349.767
|	75	As	184.216000	4.158	478378.653	ug/L	16351.281
⌊>	72	Ge-1			1273711.531	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	107.779

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:09:53
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\CCV 1.016
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	5361.765520	0.925	1758035.315	ug/L	64116.052
|	55	Mn	102.841828	1.725	1695194.865	ug/L	2349.767
|	75	As	101.866869	1.127	267998.529	ug/L	16351.281
⌊>	72	Ge-1			1252251.216	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	105.963

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:12:36
Method File: C:\elandata\Method\000-NG.mth
Dataset File: C:\elandata\Dataset\101215a1\CCB 1.017
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-9.717808	50.599	64784.444	ug/L	64116.052
|	55	Mn	0.006596	48.935	2595.863	ug/L	2349.767
|	75	As	-0.436341	19.371	16231.473	ug/L	16351.281
⌊>	72	Ge-1			1250800.330	ug/L	1181777.953

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	105.841

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) | Instrument: M01 | Reported: 12/15/10 12:18:26

File ID: 101215A1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	*Rinse 2X*				*2.0*	*12/15/10 11:32*		☐
2	*Blank*				*1.0*	*12/15/10 11:35*		☐
3	*Standard1*				*1.0*	*12/15/10 11:38*		☐
4	*ICV*				*1.0*	*12/15/10 11:41*		☐
5	*ICB*				*1.0*	*12/15/10 11:43*		☐
6	*LLSTD1*				*1.0*	*12/15/10 11:46*		☐
7	*LLSTD2*				*1.0*	*12/15/10 11:49*		☐
8	*ICSA*				*1.0*	*12/15/10 11:51*		☐
9	*ICSAB*				*1.0*	*12/15/10 11:54*		☐
10	*Rinse*				*1.0*	*12/15/10 12:00*		☐
11	*MA6PQL*	*G0L100000*	*0344269*	*2A*	*1.0*	*12/15/10 12:07*		☐
12	*CCV 1*				*1.0*	*12/15/10 12:09*		☐
13	*CCB 1*				*1.0*	*12/15/10 12:12*		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 12/15/10 12:18:26

File ID: 101215A1 **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse 2X	12/15/10 11:32	101.8	☐
2	Blank	12/15/10 11:35	100.0	☑
3	Standard1	12/15/10 11:38	102.5	☑
4	ICV	12/15/10 11:41	102.5	☑
5	ICB	12/15/10 11:43	101.7	☑
6	LLSTD1	12/15/10 11:46	102.2	☑
7	LLSTD2	12/15/10 11:49	104.8	☑
8	ICSA	12/15/10 11:51	94.9	☑
9	ICSAB	12/15/10 11:54	93.6	☑
10	Rinse	12/15/10 12:00	107.2	☑
11	MA6PQL	12/15/10 12:07	107.8	☑
12	CCV 1	12/15/10 12:09	106.0	☑
13	CCB 1	12/15/10 12:12	105.8	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Method: 6020 **Instrument: M01** **Batch: 101215A1**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	***ICV***	***101215A1, 4***	***12/15/2010 11:41:15***	☐
ICB	***ICB***	***101215A1, 5***	***12/15/2010 11:43:57***	☐
ICSA	***ICSA***	***101215A1, 8***	***12/15/2010 11:51:55***	☐
ICSAB	***ICSAB***	***101215A1, 9***	***12/15/2010 11:54:35***	☐
CCV 1	***CCV***	***101215A1, 12***	***12/15/2010 12:09:53***	☐
CCB 1	***CCB***	***101215A1, 13***	***12/15/2010 12:12:36***	☐

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 4 Method 6020_
Acquired: 12/15/2010 11:41:15 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***1300159***	***81.534***	***80.000***	***102***	
7440-38-2	***Arsenic***	***75***	***208897***	***80.748***	***80.000***	***101***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1210957***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 5 Method 6020_
Acquired: 12/15/2010 11:43:57 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	***Manganese***	***55***	***2461***	***0.00457***	***1.0***	***0.083***	***0.0***	
7440-38-2	***Arsenic***	***75***	***14878***	***-0.73752***	***2.0***	***0.50***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1201573***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 8 Method 6020_
Acquired: 12/15/2010 11:51:55 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***108867***	***7.2357***		*	
7440-38-2	***Arsenic***	***75***	***16176***	***0.30229***		*	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1121131***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 9 Method 6020_
Acquired: 12/15/2010 11:54:35 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***1610708***	***110.62***	***100.00***	***111***	☑
7440-38-2	***Arsenic***	***75***	***244413***	***105.40***	***100.00***	***105***	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1106044***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 12 Method 6020_
Acquired: 12/15/2010 12:09:53 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7439-96-5	***Manganese***	***55***	***1695195***	***102.84***	***100.00***	***103***	
7440-38-2	***Arsenic***	***75***	***267999***	***101.87***	***100.00***	***102***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1252251***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/15/10 12:19:24

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215A1 # 13 Method 6020_
Acquired: 12/15/2010 12:12:36 M01
Calibrated: 12/15/2010 11:35:45 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7439-96-5	***Manganese***	***55***	***2596***	***0.00660***	***1.0***	***0.083***	***0.0***	
7440-38-2	***Arsenic***	***75***	***16231***	***-0.43634***	***2.0***	***0.50***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***			☑

Reviewed by: Date:

Sample Preparation Log

TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log

Date: 10-Dec-10 **Analyst:** JZ **Matrix:** AIR

Fraction: Filter **SOP:** WS-IP-0010 **Method:** ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G0L100000	269	MA6PQB	2A	NA	NA	NA	100 mL	344269	1.2
G0L100000	269	MA6PQC	2A	NA	NA	NA	100 mL	344269	1.2
G0L100000	269	MA6PQL	2A	NA	NA	NA	100 mL	344269	1.2
G0L080454	7	MA11P	2A	9 inches	0.75inches	0.75inches	100 mL	344269	1.2
G0L080454	10	MA12P	2A	9 inches	0.75inches	0.75inches	100 mL	344269	1.2

QCs shared with batch 0344278

For the cassette filter digest the whole filter is used.
For 1" filter: factor = 9 (9/1).
For 0.75" filter factor = 12 (9/0.75).

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Metals Spiking Documentation Form

Lot #(s): GOL080454 GOL090441 GOL100456

Batch Number: 0344278 0344269

MS Sample(s): NA

Analyst Initial/Date: JZ 12/10/10

Correct Folder ID Witness: NA

EPA Analytical Method ID: 6020

EPA Prep Method ID: WS-IP-0010

Witness Initial/Date: 12/10/10 NH

Digestion Cup Lot #: 1008257-0307

Filter Paper Lot #: 390428

Spiked Date: 12/10/10

Hot Plate Microwave ID: Met. II

Hot Plate Temp: Initial: 95°C Final: 93°C

Thermometer ID: BT09

Fin Vol Cup Lot: 100811

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/LCSD Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO_3	Ca, Mg	5,000				
		~~Al, As, Ba, Se, Sn, Tl~~	200				
		Fe,Mo,Ti	100				
		Sb,Co,Pb,Mn,Ni,V,Zn	50				
		Cu	25				
		Cr	20				
		,Be,Cd	5				
		~~Ag~~	~~5.0~~				
	ICP Part 2 2% HNO_3	K,Na	5,000				
		P,S	1,000				
		B,Li,Sr	100				
	Si H20/Tr HF	Si	1,000				12/10/10 JZ
✓	TACA-1 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B	500				
		As,Be,Cd,Cr,Co,Cu,Pb, Mn,Ni,Se,U,V,Zn,Ba,Li Sr	100	3189-6-5	200µl	NA	8/31/11
		Ag,Tl	25				
✓	TACA-2 5% HNO_3	Mo, Sb, Sn, Ti	100	3189-6-6	200µl	NA	8/31/11
	Misc. Elements						12/10/10 JZ

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt			30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	
✓	3M HNO_3	In-House	4028-33-7		1:1 HCl	In-House	12/10/10 JZ

ICP matrix spike and LCS: For final volumes of 100ml, add 1mL from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 0.2 mL each of TACA-1 and TACA-2.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 034270 034269 Test: 6020

Prep Date: 12/10/10 Holding Times: 6/6/11 6/7/11 6/8/11 NCM: Y N

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

Spike witness: NM Date: ~~10/12/10~~ NM 12/10/10

2nd Level Reviewer: SH Date: 12/13/10

Comments:

AIR, TSP-
Total Suspended
Particulates

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G0L080454 (7,10) Batch #: 0344398

ANALYSIS: (circle) ~~TSP/PM10~~ or METHOD 5

DATE: 12/10/10 **ANALYST:** JZ

LEVEL 1 ANALYSIS REVIEW	YES	NO	NA
1. Samples are in good condition.	✓		
2. Sample filter number matches the folder or petri ID number.	✓		
3. Desiccator temperature and % humidity criteria in control.	✓		
4. Balance calibration criteria met.	✓		
5. Beginning and ending calibration sample bracket weights are in calibration.	✓		
6. Samples reached stable weight.	✓		
7. Samples exceeded 5 consecutive final weighings.		✓	
LEVEL 1 DATA REVIEW			
1. Benchsheet is complete.	✓		
2. QAS or QAPP consulted and followed for client specifics.	✓		
3. Data entered in properly.	✓		
4. Copy of spreadsheet or logbook raw data entry attached to data package.	✓		
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.			✓

Completed By & Date: JZ 12/10/10

LEVEL 2 REVIEW:			
1. Level 1 checklist complete and verified.			
2. Deviations, Anomalies, Holding times checked and approved.			
3. Reanalysis documented and chemist notified.			
4. Client specific criteria met.			
5. Data entry checked and released in Quantims.			
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).			

Completed By & Date:

Comments: Dessicator 1A

RQC050 TestAmerica Laboratories, Inc. Run Date: 12/10/10
WET CHEM BATCHSHEET Time: 14:49:30

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

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

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
QC BATCH #: **0344398** INITIALS: DATA ENTRY:
PREP DATE: 12/08/10 10:35 PREP JZ INITIALS JZ
COMP DATE: 12/09/10 18:32 ANAL JZ DATE 12/10/10
USER: PHOMSOPT

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
MA11P-1-AA	G-0L080454-007	XX S 88 AO 3W	M	12/10/10	UW-12062010B
MA12P-1-AA	G-0L080454-010	XX S 88 AO 3W	M	12/10/10	DW-12062010B

Control Limits

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)	Initial Wts Stablity Check
	5g wt	5.0004 112310skv1636	5.0000 112410skv0731	5.0000 120710jz1153	4.9999 120710jz1810					-0.0001	
	5g wt	5.0004 112310skv1636	5.0000 112410skv0731	[illegible] 120910jz1209	5.0000 120910jz1824						
	tron112310-76	4.3772 112310skv1636	4.3778 112410skv0731							NC	
MAWEP 120610jz1000	tron112310-77	4.3738 112310skv1636	4.3735 112410skv0732	4.4372 120710jz1155	4.4374 120710jz1812					0.0639	
MAWEQ 120610jz1000	tron112310-78	4.3781 112310skv1637	4.3776 112410skv0735	4.4526 120710jz1156	4.4527 120710jz1815					0.0751	
	tron112310-79	4.3880 112310skv1638	4.3882 112410skv0738							NC	
	tron112310-80	4.3796 112310skv1639	4.3794 112410skv0738							NC	
	tron112310-81	4.3631 112310skv1639	4.3629 112410skv0738							NC	
MA1XW 120810jz1035	tron112310-82	4.3812 112310skv1640	4.3816 112410skv0739	4.4442 120910jz1211	4.4440 120910jz1826					0.0624	
MA1X8 120810jz1035	tron112310-83	4.3762 112310skv1640	4.3763 112410skv0739	4.4371 120910jz1213	4.4371 120910jz1827					0.0608	
	tron112310-84	4.3756 112310skv1640	4.3756 112410skv0740							NC	
	tron112310-85	4.3786 112310skv1641	4.3790 112410skv0741							NC	
	5g wt	5.0002 112310skv1642	4.9997 112410skv0742							NC	
	tron112310-86	4.3995 112310skv1644	4.4000 112410skv0743							NC	
	tron112310-87	4.3731 112310skv1647	4.3731 112410skv0744							NC	
	tron112310-88	4.3949 112310skv1647	4.3953 112410skv0745							NC	
	tron112310-89	4.4021 112310skv1648	4.4024 112410skv0745							NC	
	tron112310-90	4.4024 112310skv1648	4.4022 112410skv0746							NC	
	tron112310-91	4.3857 112310skv1648	4.3860 112410skv0746							NC	
[illegible] 120910jz1035	tron112310-92	4.3979 112310skv1649	4.3982 112410skv0746	4.4321 120910jz1216	4.4317 120910jz1829					0.0335	

rev 020303

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Page 1 of 2 Batch#: 0344348

Reviewed by:_____

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)	Initial Wts Stablity Check
[redacted]	tron112310-93	4.3935 112310skv1649	4.3939 112410skv0747	4.4221 120910jz1217	4.4219 120910jz1831					0.0280	
MAWER 120610jz1000	tron112310-94	4.3779 112310skv1650	4.3780 112410skv0747	4.4556 120710jz1157	4.4555 120710jz1822					0.0775	
MAWEX 120610jz1000	tron112310-95	4.3891 112310skv1650	4.3889 112410skv0747	4.4336 120710jz1159	4.4334 120710jz1824					0.0445	
	5g wt	5.0001 112310skv1651	4.9998 112410skv0748	4.9999 120710jz1200	4.9999 120710jz1826					0.0001	
	5g wt	5.0001 112310skv1651	4.9998 112410skv0748	4.9998 120910jz1219	[illegible] 120910jz1832					0.0000	

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0344398**

Date 12/10/2010
Time 13:49:11

Method Code:**AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst:**Thep Phomsopha**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
MA11P-1-AA	0.0335	g	0.0005	12/08-12/10/10	.00	N		0.034	0.00050	1.00
MA12P-1-AA	0.0280	g	0.0005	12/08-12/10/10	.00	N		0.028	0.00050	1.00

Notes:

PRODUCTION TOTALS

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
11/9/10	ECF	66	34	–	66	29	–	68	27	(2)	66	32	–	67	34	–	68	36	–	68	32	–	70	34
11/10/10	ECF	67	34	–	68	28	–	69	27	(2)	68	32	–	68	34	–	70	36	–	70	32	–	70	39
11/11/10	SV	65	32	–	66	29	–	67	27	(2)	66	33	–	66	34	–	68	~~33~~ 36		68	32	–	68	33
11/12/10	ECF	65	33	–	66	29	–	67	28	–	66	33	–	66	34	–	68	35	–	68	32	–	69	33
11/15/10	ECF	65	32	–	69	29	–	70	27	(2)	68	33	–	69	37	–	70	35	–	70	32	–	70	39
11/16/10	TP	69	32	–	69	30	–	71	27	(2)	70	34	–	70	38	–	70	35	–	72	32	–	73	34
11/17/10	ECF	66	33	–	67	31	–	68	27	(2)	67	34	–	68	36	–	70	35	–	70	32	–	70	33
11/18/10	ECF	66	44	(1)	66	32	–	67	28	–	66	34	–	~~66~~ ECF 11/19/10 38		(1)	68	35	–	68	32	–	68	37
11/19/10	ECF	67	29	–	67	33	–	68	27	(2)	67	34	–	67	29	–	70	35	–	68	33	–	70	46
11/22/10	SV	65	29	–	66	34	–	67	28	–	66	34	–	66	29	–	68	35	–	68	32	–	68	35
11.23.10	SV	67	29	–	67	34	–	66	27	(2)	67	35	–	68	28	–	70	35	–	70	32	–	70	40
11.24.10	SV	65	29	–	65	33	–	67	28	–	66	33	–	66	29	–	66	34	–	68	32	–	68	24
11.26.10	SV	65	29	–	66	32	–	67	28	–	66	33	–	67	29	–	68	37	–	68	32		68	25
11.27.10	SV	65	29		65	33	–	67	28		65	33	–	66	29	–	68	33	–	68	32	–	68	33
11.29.10	SV	65	29	–	66	33	–	67	28	–	66	33		66	29	–	68	33	–	68	32	–	68	27

Abbreviations: T = Temperature (°F) RH = Relative Humidity (%) FN = Foot Note
Limits: RH 33± 5% Temperature 22± 5 °C or 71.6± 9°F
Foot Notes: 1 = Desiccant Changed 2 = Desiccator < 28% Humidity

Revised 11/15/10 FF

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
11-30-10	RV	65	30	-	65	33	-	67	28	-	66	33	-	66	29	-	68	33	-	68	32	-	68	29
12/1/10	ECF	64	31	—	65	33	—	66	28	—	65	33	—	66	31	—	68	33	—	68	32	—	69	30
12/2/10	ECF	64	31	—	65	33	—	66	28	—	65	33	—	65	32	—	68	33	—	68	32	—	68	32
12-3-10	RV	67	31	—	68	33	-	69	27	(2)	67	34	-	68	32	-	70	33	-	70	32	-	70	36
12/6/10	ECF	67	32	—	68	37	—	69	30	—	68	36	—	68	35	—	70	34	—	70	32	—	70	47
12/7/10	ECF	66	34	—	67	36	—	68	30	—	67	36	—	67	34	—	70	34	—	68	32	—	70	38
12/8/10	ECF	68	33	—	68	38	(1)	69	31	—	68	37	(1)	68	34	—	70	34	—	70	32	—	70	43
12/9/10	ECF	69	31	—	69	28	—	70	32	—	69	28	—	70	37	—	72	35	—	72	32	—	72	48

Abbreviations: T = Temperature (°F) RH = Relative Humidity (%) FN = Foot Note
Limits: RH 33± 5% Temperature 22± 5 °C or 71.6± 9°F
Foot Notes: 1 = Desiccant Changed 2 = Desiccator < 28% Humidity

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Balance Calibration Check Log

WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)				
0.2000	0.2003	0.1995	0.2005	10.00	10.0003	9.9000	10.100	11/10/10	JZ	QA 011	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0001	9.9000	10.100	11/11/10	SV	QA-11	P
0.2g	0.1999	0.1995	0.2005	10.0g	10.0002	9.9000	10.100	11/12/10	ECF	QA-11	P
0.2	0.2001	0.1995	0.2005	10.0	10.0001	9.9000	10.100	11/15/10	ECF	QA-11	P
0.2000	0.1998	0.1995	0.2005	10.0	9.9997	9.9000	10.100	11/16/10	JZ	QA 011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/17/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/18/10	JZ	QA-011	P
0.2000	0.2002	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/19/10	JZ	QA 011	P
0.2g	0.2001	0.1995	0.2005	10.0g	10.0002	9.9000	10.100	11/22/10	SV	QA-11	P
0.2g	0.2001	0.1995	0.2005	10.0g	10.0000	9.9000	10.100	11/23/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0000	9.9000	10.1000	11/24/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0001	9.9000	10.1000	11/26/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	9.9997	9.9000	10.1000	11/27/10	SV	QA-11	P
0.2g	0.2001	0.1995	0.2005	10.0g	9.9998	9.9000	10.1000	11/29/10	SV	QA-11	P

1 P= Pass, F= Fail. The observed weight must be with in the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.
a) Do not move or use the balance
b) Attach a sign instructing others not to use the balance (see front of logbook).
c) Notify the QA department.

*2 Balance Tolerances (grams):

Denomination	Range	Denomination	Range
0.2000	0.1995 – 0.2005	10	9.9000 – 10.100
0.5000	0.4995 – 0.5005	20	19.8000 – 20.200
1	0.9900 – 1.0100	50	49.5000 – 50.500
2	1.9800 – 2.0200	100	99.0000 – 101.000
5	4.9500 – 5.0500		

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

*3 When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 – 0.0022
1	0.9950 – 1.0050
Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.	

Reviewed 11/5/10 TP

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Balance Calibration Check Log

WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)				
0.2000	0.2001	0.1995	0.2005	10.0000	9.9994	9.9000	10.1000	11/30/10	JZ	QA 011	P
0.2000	0.2002	0.1995	0.2005	10.0000	9.9995	9.9000	10.1000	12/1/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	9.9994	9.9000	10.1000	12/2/10	JZ	QA-11	P
0.2000	0.2000	0.1995	0.2005	10.0000	9.9997	9.9000	10.1000	12/3/10	JZ	QA-11	P
0.2000	0.2002	0.1995	0.2005	10.0000	10.0003	9.9000	10.1000	12/6/10	JZ	QA 011	P
0.2000	0.2001	0.1995	0.2005	10.0000	10.0001	9.9000	10.1000	12/7/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	10.0000	9.9000	10.1000	12/8/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	10.0001	9.9000	10.1000	12/9/10	JZ	QA 011	P

*1 P= Pass, F= Fail. The observed weight must be with in the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.
a) Do not move or use the balance
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*2 Balance Tolerances (grams):

Denomination	Range	Denomination	Range
0.2000	0.1995 – 0.2005	10	9.9000 – 10.100
0.5000	0.4995 – 0.5005	20	19.8000 – 20.200
1	0.9900 – 1.0100	50	49.5000 – 50.500
2	1.9800 – 2.0200	100	99.0000 – 101.000
5	4.9500 – 5.0500		

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

*3 When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 – 0.0022
1	0.9950 – 1.0050
Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.	