

**REQUEST NUMBER: 10-2687**

**These Samples are on:**

LANL Request Number:10-2687

Per Agreement Number:126310021

Project Cost Code: MR3A05529E00

SHIP DATE: 4/7/2010

**TURNAROUND/REPORT DUE: 4/17/2010**

**TURNAROUND REQ'D: 10 Days**

RAD SCREENING: Yes, Below Background

**LAB REQUEST COMMENTS: 10 full data package**

**Signature:**

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846;8082	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846;8270C	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	

Wednesday, April 07, 2010

REQUEST NUMBER: 10-2687

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8270C	1	RE12-10-15448	R	4/6/2010	
	SW-846:8321A_MOD	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	

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Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2687C

LOS ALAMOS

REQUEST NUMBER: 10-2687

NATIONAL LABORATORY

ATTN: Mike Franks

TURNAROUND/REPORT DUE: 4/17/2010

Severn Trent Laboratories, Inc., St. Louis

TURNAROUND REQ'D: 10

13715 Rider Trail N.

Earth City, MO 63045

LAB REQUEST COMMENTS: 10 full data package

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15443	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15442	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15448	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15446	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15445	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15447	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By: Date

Time

Remarks:

Printed Name

Signature

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15442

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:	QBT3		Alh
TIME COLLECTED (HH:MM)		0959		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-611939	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	↓
1	10 day	Met+U+CLO4+ CN	1 GAL POLY Litter RS 03-31-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	↓

SAMPLE DESC:

Brown sandy silt

SAMPLE COMMENTS:

~~FD: RE12-10-15448~~ 12m 4/6/10

NA

LOCATION DESC:

6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 25 dpm

Beta/Gamma ≤ 796 dpm

~~PID~~ ~~Ambient Reading~~ = ppm  
RS 03-31-10

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT)

Darrrel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tracy H	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) Melisse Martin (Signature) [Signature]	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15443

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		1010		SUB-MEDIA:	TUFF 1		L
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-611939	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1244/6/103-0 2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO NA
BOREHOLE: YES/NO/NA	NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+ CN	1 GAL POLY LITHO RS 0331-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Tight brownish tan tuff (weathered) and brown sandy silt

SAMPLE COMMENTS:

Tuff at 2.2 ft

LOCATION DESC:

6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID  $\frac{\text{Ambient Reading}}{\text{RS 03-31-10}} = \text{ppm}$

$\alpha \leq 25 \text{ dpm}$   
 $\beta/\gamma \leq 796 \text{ dpm}$

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>Tracy</i>	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) <i>Melissa</i> (Signature) <i>[Signature]</i>	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15444

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA: OBT3		ok	
TIME COLLECTED (HH:MM)		1039		SUB-MEDIA: TUFF 1		e	
PRS ID: 12-004(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 12-611939		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		5.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		5.4		SCREEN/PORT DESC: NA			
FIELD MATRIX: R		R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	y	
1	10 day	Met+U+CLO4+ CN	1 GAL POLY Litter RS 03-31-10	Ice	y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Orangy brown stuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

6 inches east of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID  $\frac{\text{Ambient Reading}}{\text{RS 03-31-10}} = \text{ppm}$

Alpha  $\leq 25$  dpm  
Beta/Gamma  $\leq 716$  dpm

COLLECTED BY (PRINT) TLMcFarlane

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarlane (Signature) Tracy [Signature]	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15445

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1044		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-611940	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+ CN	1 GAL POLY Litter RS 03-91-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy, silt

SAMPLE COMMENTS:

NA

FD RE12-10-15445

LOCATION DESC:

1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$   
RS 03/91-10

Alpha  $\leq 25$  dpm  
Beta/Gamma  $\leq 796$  dpm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tray 207	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) Melisa Montez (Signature) [Signature]	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15446

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:	OBT3		
TIME COLLECTED (HH:MM)		1059		SUB-MEDIA:	TUFF 1		nk
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	12-611940	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+CN	1 EA 8 IN RESEALABLE POLY BAG	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Orangy pink gray, tuff

SAMPLE COMMENTS:

Hit tuff at 1.5 ft

LOCATION DESC:

1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID  $\frac{\text{Ambient Reading}}{\text{RS 03-31-10}} = \text{ppm}$

Alpha  $\pm$  25 dpm  
Beta/Gamma  $\pm$  716 dpm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) <i>Malik Mntz</i> (Signature) <i>Malik Mntz</i>	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15447

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1121		SUB-MEDIA:		TUFF 1	
PRS ID: 12-004(b)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 12-611940		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		5.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		5.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		EXCAVATED: YES/NO		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO		NA	
BOREHOLE: YES/NO NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	8270C+NMED Exp	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+CN	1 GAT POLY C. P. Per RS 03-31-10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

whitish gray, tuff

SAMPLE COMMENTS:

NA

FR RE12-10-15449

LOCATION DESC:

1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID ~~Ambient Reading~~ = ppm  
RS 03-31-10

Alpha = 25 dpm  
Beta/Gamma = 796 dpm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Trayz	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) Michael Montoya (Signature) [Signature]	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15448

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		04/06/2010		MEDIA:	OBT3		AIH
TIME COLLECTED (HH:MM)		73m 4/6/10		SUB-MEDIA:	TUFF 1		NA
PRS ID:	12-004(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	12-011940		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	12-011939-73m		FIELD PREP:	NA		
TOP DEPTH:	0	OK		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.0		SCREEN/PORT DESC:			
FIELD MATRIX:	R	0.5		EXCAVATED: YES/NO	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	12m 4/6/10 8082+8270+ NMED-EXP	500 ML AMBER GLASS	Ice	Y	10 day full data package
1	10 day	AM241+GS+ ISOPU+ISOU	1 LITER POLY	None	Y	
1	10 day	Met+U+CLO4+ CN	1 LITER POLY Litter RS 03/31/10	Ice	Y	
1	10 day	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 12-10-15442 12m 4/6/10

15445  
Brown sandy silt

SAMPLE COMMENTS:

NA

LOCATION DESC:

1 ft NW of pipe location

FIELD SCREENING/MEASUREMENT RESULTS:

PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$   
 RS 03/31/10

Alpha  $\leq 25$  dpm  
 Beta/Gamma  $\leq 796$  dpm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) Daniel Byers

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) Tray 207	Date/Time 4/6/10 1230	RECEIVED BY (Printed Name) Helise White (Signature) [Signature]	Date/Time 4/6/10 1230
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 2728

EVENT NAME: 4th Qtr. FY09 - AOC 12-004(b) - Threemile Cyn.

SAMPLE ID: RE12-10-15449

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	04/06/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	1150	SUB-MEDIA:	OTHER
PRS ID: 12-004(b)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	12-611940	FIELD QC TYPE:	FR
LOCATION TYPE: GENERIC	OK	FIELD PREP:	UF
TOP DEPTH: 0		SAMPLE USAGE:	QC
BOTTOM DEPTH: 0		SCREEN/PORT DESC:	NA
FIELD MATRIX: W		EXCAVATED: YES/NO/NA	
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA	BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	10 day	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	10 day full data package
1	↓	SW-846:6850	250 ML POLY	Ice	Y	↓
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Y	↓

SAMPLE DESC: QC Sample of RE12-10-15447

## SAMPLE COMMENTS:

Rinsate

## LOCATION DESC:

NA

## FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Dante B. yers

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	4/6/10	(Printed Name) Melissa Montez	4/6/10
(Signature) TLMcFarland	1230	(Signature) [Signature]	1230
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101

Client Sample ID: RE12-10-15442

Sample Collection Date: 04/06/10 09:59

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00101-001

Date Received: 04/06/10 13:24

Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	4.28	14.05	31.34	14.06		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	22.36	13.08	18.71	13.36		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	30.58	0.10	30.58		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	22.42	7.58	1.05	7.61		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.03	0.06	0.07	0.06		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.50	0.27	0.06	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.29	0.35	0.27	0.35		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.41	0.44	0.11	0.44		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	1.95	0.87	0.26	0.87		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.59	0.67	0.37	0.67		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	5.58	2.75	0.98	3.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.28	0.33	0.13	0.33		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 1.66										

*Matthew J. Eden*  
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558





133 State Road 4, White Rock, MN 57544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101

Client Sample ID: RE12-10-15443

Sample Collection Date: 04/06/10 10:10

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00101-002

Date Received: 04/06/10 13:24

Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	8.63	15.90	29.20	15.93		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	20.98	12.48	17.50	12.74		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	33.20	0.11	33.20		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	1.39	5.45	2.56	5.45		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.17	0.14	0.08	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	-0.03	-0.06	0.31	-0.06		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.47	0.50	0.15	0.50		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	1.77	0.76	0.28	0.76		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	-0.30	-3.08	0.48	-3.08		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	0.19	1.79	1.11	1.79		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.01	-0.18	0.08	-0.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 1.58										

*M. J. Edgar*  
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544  
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101  
Client Sample ID: RE12-10-15444  
Sample Collection Date: 04/06/10 10:39  
Sample Matrix: Soil/Solid

Request or PO Number:  
ARS Sample ID: ARS2-10-00101-003  
Date Received: 04/06/10 13:24  
Report Date: 04/06/10 19:37

Analyte Description	Analyte Results	Analyte Error +/- 2 s	MDC	TPU	Qual	Analyte Units	Analyte Test Method	Analyte Date/Time	Analyte Technician	Tracer/Chem Recovery
GROSS ALPHA	9.42	16.61	29.97	16.65		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	21.83	13.39	16.87	13.66		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.04	36.60	0.12	36.60		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	32.97	10.06	1.26	10.10		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.08	0.13	0.17	0.13		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.13	0.15	0.07	0.15		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.12	0.16	0.32	0.16		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.17	0.51	0.19	0.51		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.36	0.88	0.31	0.89		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.13	0.18	0.49	0.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	2.37	3.08	1.42	3.12		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.55	0.54	0.19	0.54		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 1.60										

*Matthew A. Eden*  
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NH 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101  
 Client Sample ID: RE12-10-15445  
 Sample Collection Date: 04/06/10 10:44  
 Sample Matrix: Soil/Solid

Request or PO Number:  
 ARS Sample ID: ARS2-10-00101-004  
 Date Received: 04/06/10 13:24  
 Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Trace/Chem Recovery
GROSS ALPHA	15.71	20.38	32.12	20.47		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	33.88	14.27	17.61	14.86		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	33.85	0.11	33.85		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	19.26	8.74	1.96	8.76		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.18	0.24	0.08	0.24		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.01	0.03	0.07	0.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.21	0.23	0.29	0.23		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.55	0.49	0.13	0.50		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.27	0.87	0.28	0.88		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	1.35	0.70	0.42	0.70		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	4.98	3.76	1.43	3.93		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.32	0.28	0.11	0.28		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.43

*Matthew J. Edler*  
 Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544  
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101  
Client Sample ID: RE12-10-15446  
Sample Collection Date: 04/06/10 10:59  
Sample Matrix: Soil/Solid

Request or PO Number:  
ARS Sample ID: ARS2-10-00101-005  
Date Received: 04/06/10 13:24  
Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	14.18	19.65	31.34	19.73		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	26.74	13.80	18.71	14.18		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	30.38	0.10	30.38		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	21.00	7.31	1.05	7.34		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.04	0.10	0.14	0.10		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.00	0.00	0.06	0.00		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	-0.41	117.60	0.26	117.60		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.13	0.40	0.10	0.40		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	0.91	0.53	0.25	0.53		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.74	0.62	0.37	0.62		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	2.50	3.13	1.32	3.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.02	28.77	0.06	28.77		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 0.64										

*M. J. F. [Signature]*  
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101

Client Sample ID: RE12-10-15447

Sample Collection Date: 04/06/10 11:21

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00101-006

Date Received: 04/06/10 13:24

Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qum	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	-0.61	9.45	29.20	9.45		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	38.07	14.39	17.80	15.13		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	35.39	0.11	35.39		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	28.17	9.14	1.22	9.18		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.07	0.14	0.12	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	0.19	0.25	0.11	0.25		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.08	0.12	0.07	0.12		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-192	-0.11	-0.24	0.31	-0.24		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.97	0.86	0.14	0.87		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.74	1.16	0.30	1.17		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.75	0.85	0.52	0.85		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	4.62	4.00	1.53	4.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	-0.01	-0.19	0.09	-0.19		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
NOTES: % Moisture: 0.28										

*Matthew J. Baker*  
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00101  
 Client Sample ID: RE12-10-15448  
 Sample Collection Date: 04/06/10 10:44  
 Sample Matrix: Soil/Solid

Request or PO Number:  
 ARS Sample ID: ARS2-10-00101-007  
 Date Received: 04/06/10 13:24  
 Report Date: 04/06/10 19:37

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	19.07	21.33	29.97	21.46		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
GROSS BETA	57.17	17.67	18.87	19.01		pCi/g	EPA 900.0M	4/4/2010	ME	N/A
NA-22	-0.03	29.54	0.09	29.54		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
K-40	17.95	6.67	1.02	5.69		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CO-60	0.30	0.27	0.10	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-134	-0.01	-0.03	0.09	-0.03		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
CS-137	0.14	0.14	0.06	0.14		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
EU-152	0.01	0.02	0.26	0.02		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
PB-212	1.48	0.46	0.13	0.46		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
RA-228	2.42	1.07	0.25	1.07		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-235	0.25	0.79	0.44	0.79		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
U-238	3.77	3.99	1.55	4.06		pCi/g	EPA 901.1M	4/6/2010	ME	N/A
AM-241	0.13	0.27	0.12	0.27		pCi/g	EPA 901.1M	4/6/2010	ME	N/A

NOTES: % Moisture: 1.39

Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558

## Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

RE12-10-15442

15443

15444

15445

15446

15447

15448

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

.....


The following samples do not require rad screening data for the reasons stated (list sample numbers):

RE12-10-15449

Reason: Rinsate

.....

Print Last Name McFarland Signature Trayz Date 4/6/10

DATA VALIDATION COVER SHEET	
<b>5115-1</b>  <div style="text-align: center;"><b>Data Validation Cover Sheet</b></div>	Records Use only  

Section I.		
REQUEST NUMBER: <u>10-2687</u>	VALIDATION DATE: <u>05/10/10</u>	LAB CODE: <u>STSL</u>
CONTRACT LABORATORY NAME: <u>TestAmerica Laboratories, Inc. – St. Louis</u>		
VALIDATOR: <u>Karen Germann</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input checked="" type="checkbox"/> OTHER (DESCRIBE): <u>GC/MS SVOC</u>		


Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. TICS MASS SPECTRA


Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. The ICV and/or CCV %Ds were >20% for aniline and n-nitrosodiphenylamine. The associated sample results were NDs and, thus, were qualified UJ,SV7c.
2. It should be noted that three target analytes were not present in the LCS spiking solution. No sample results were qualified.
3. The MS and/or MSD %Rs for di-n-octylphthalate were outside the laboratory acceptance limits. MS/MSD analyses were not required for SVOCs and, thus, no sample results were qualified. It should be noted that the MS/MSD analyses were performed on a LANL sample from another RN and that six target analytes were not present in the MS/MSD spiking solution. No sample results were qualified.


Reviewed by: ETMLevel: 1Date: 5/10/10




DATA VALIDATION COVER SHEET	
5115-1	Records Use only
Data Validation Cover Sheet	
VALIDATOR'S SIGNATURE: <u>Karen F. German</u> DATE: <u>05/10/10</u>	
Form 5115-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5115-2</b>  <b>Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist</b>	Records Use only  


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, SV9	J-, SV9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, SV9a	J-, SV9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, SV9b	R, SV9b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The instrument performance sample did not pass method acceptance criteria.	R, SV16	R, SV16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, SV16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, SV16c	R, SV16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, SV7	J, SV7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, SV7a	J, SV7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or Continuing Calibration Verification (CCV).	R, SV7b	J, SV7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. The Initial Calibration Verification (ICV) and/or CCV were recovered outside the method-specific limits.	UJ, SV7c	J, SV7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, SV7d	J, SV7d

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5115-2</b>  <b>Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, SV7f	R, SV7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ (10X for common organic laboratory contaminants) the concentration of the related analyte in the method blank.	U, SV4	J, V4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5X (10X for common laboratory contaminants).	N/A	J, SV4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, SV4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV4e	R, SV4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The IS retention time has shifted by more than 30 seconds.	UJ, SV0	J, SV0
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18. Analyte is positively confirmed but outside the IS retention time window; however, spectral matches must be provided.	N/A	J, SV0a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV0b	R, SV0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The quantitating IS area count is $<10\%$ of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow method-specific windows.	R, SV1a	J, SV1a

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5115-2</b>  <b>Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	21. The IS area count for the quantitating IS is <50% but >10% for organics window relation to the previous continuing calibration. Follow method-specific windows.	UJ, SV1b	J, SV1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	22. The IS area count for the quantitating IS is >200% of the area count for the previous continuing calibration. Follow method-specific windows.	UJ, SV1c	J, SV1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	23. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV1d	R, SV1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The surrogate is <10%R. Follow the external laboratory limits located within the associated data package.	R, SV3	J-, SV3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The surrogate is < the Lower Acceptance Level (LAL) but ≥10%R. Follow the external laboratory limits located within the associated data package.	UJ, SV3a	J-, SV3a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, SV3c	J, SV3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV3d	R, SV3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, SV12	J-, SV12

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5115-2</b>  <b>Semivolatile Organic Compound (SVOC) Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, SV12a	J-, SV12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, SV12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	32. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV12c	R, SV12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	33. The affected analyte is considered not detected because mass spectrum did not meet specifications.	N/A	U, SV8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, SV8a	R, SV8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	35. Duplicate, dilution, or reanalysis.	UJ, SV88	J, SV88
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, SV15	R, SV15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, SV19	J, R, SV19

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-001    Work Order #....: LXNJ91AE    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 19:13  
 Dilution Factor: 1  
 % Moisture.....: 17    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	400	ug/kg
Phenol	ND	400	ug/kg
Aniline	UJ,SV7c ND	400	ug/kg
bis(2-Chloroethyl)- ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
Benzyl alcohol	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
3-Methylphenol & 4-Methylphenol	ND	800	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	400	ug/kg
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichloro- benzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	400	ug/kg
2,4,5-Trichloro- phenol	ND	400	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-001 Work Order #....: LXNJ91AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz (a, h) anthracene	ND	400	ug/kg
Dibenzofuran	ND	400	ug/kg
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	UJ,SV7c ND	400	ug/kg
Azobenzene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
Benzo (a) anthracene	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	400	ug/kg
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo (b) fluoranthene	ND	400	ug/kg
Benzo (k) fluoranthene	ND	400	ug/kg
Benzo (a) pyrene	ND	400	ug/kg
Indeno (1,2,3-cd) pyrene	ND	400	ug/kg
Benzo (ghi) perylene	ND	400	ug/kg

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LOT # F0D080489

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Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNJ91AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0100038

Client Sample Id: RE12-10-15444

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8248	1400	
	Unknown aldol condensate	4.3055	9100	
5131-66-8	2-Propanol, 1-butoxy-	4.9999	2200	
	Unknown	5.8437	170	
57-10-3	N-hexadecanoic acid	9.3902	300	
	Unknown organic acid	11.083	200	



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 19:38  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	UJ,SV7c ND	390	ug/kg
bis(2-Chloroethyl)- ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	780	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-002 Work Order #....: LXNKC1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine UJ,SV7c	ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

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LOT # F0D080489

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Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKC1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 16

QC Batch: 0100038

Client Sample Id: RE12-10-15443

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8304	1400	
	Unknown aldol condensate	4.3058	8400	
	Unknown	7.5425	510	
77-53-2	Cedrol	8.365	490	
57-10-3	N-hexadecanoic acid	9.3958	210	
	Unknown	9.978	180	
	Unknown	11.088	330	

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-003    Work Order #....: LXNKE1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:04  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	UJ,SV7c ND	390	ug/kg
bis(2-Chloroethyl)- ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	770	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-003 Work Order #....: LXNKE1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz (a,h) anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	UJ,SV7c ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

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LOT # F0D080489

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Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKE1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown aldol condensate	4.2958	7800	
17699-05-7	Bicyclo[3.1.1]hept-2-ene, 2,	7.3242	320	
	Unknown	7.3936	310	
3650-28-0	1,4-Methano-1h-indene, octah	7.431	580	
	Unknown	7.4951	1700	
	Unknown	7.5432	12000	
546-28-1	1H-3a,7-methanoazulene, octa	7.5966	410	
	Unknown	7.7408	1100	
	Unknown	7.7621	550	
	Unknown	8.4137	720	
473-15-4	2-Naphthalenemethanol, decah	8.5099	2300	
	Unknown	8.6968	2700	
	Unknown	8.793	1300	
	Unknown	8.9211	1200	
	Unknown	9.2683	1400	
	Unknown organic acid	9.3912	550	
	Unknown	9.9306	590	
	Unknown	9.9733	840	
	Unknown	10.176	740	
	Unknown	10.368	2600	
	Unknown	10.587	890	
	Unknown	11.265	360	
	Unknown	12.072	930	
	Unknown alkane	12.884	1000	
	Unknown	12.996	1500	
	Unknown alkane	14.31	2300	

FORM I - TIC

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LOT # F0D080489

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Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 003  
Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10  
Work Order: LXNKE1AE      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/15/10  
Moisture %: 14

Client Sample Id: RE12-10-15442      QC Batch: 0100038

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	14.449	3100	
	Unknown alkane	15.907	2400	

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-004    Work Order #....: LXNKG1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:29  
 Dilution Factor: 1  
 % Moisture.....: 15    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	UJ,SV7c ND	390	ug/kg
bis(2-Chloroethyl)- ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	780	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-004 Work Order #....: LXNKG1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz (a, h) anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine UJ,SV7c	ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo (a) anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis (2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo (b) fluoranthene	ND	390	ug/kg
Benzo (k) fluoranthene	ND	390	ug/kg
Benzo (a) pyrene	ND	390	ug/kg
Indeno (1,2,3-cd) pyrene	ND	390	ug/kg
Benzo (ghi) perylene	ND	390	ug/kg

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KFG 05/10/10

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKG1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 15

QC Batch: 0100038

Client Sample Id: RE12-10-15448

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8368	400	
	Unknown aldol condensate	4.2961	8500	
	Unknown	7.3245	180	
	Unknown	7.426	330	
	Unknown	7.4901	1100	
	Unknown	7.5328	7100	
546-28-1	1H-3a,7-methanoazulene, octa	7.5916	200	
	Unknown	7.7358	750	
469-61-4	1H-3a,7-methanoazulene, 2,3,	7.7571	310	
	Unknown	8.3073	400	
	Unknown	8.3607	5800	
	Unknown	8.4141	240	
	Unknown	8.6918	910	
	Unknown	9.1885	220	
57-10-3	N-hexadecanoic acid	9.3862	470	
19407-28-4	Phenanthrene, 1,2,3,4,4a,9,1	9.9256	200	
	Unknown	10.117	160	
	Unknown	10.582	510	
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,	10.742	9400	
	Unknown	11.073	170	
	Unknown	11.282	190	
	Unknown	11.335	180	
6755-93-7	2(1H)-phenanthrenone, 3,4,4a	11.602	260	
	Unknown	12.056	1100	
	Unknown	12.986	910	

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-005    Work Order #....: LXNKH1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:54  
 Dilution Factor: 1  
 % Moisture.....: 6.2    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
N-Nitrosodimethylamine	ND	350	ug/kg
Phenol	ND	350	ug/kg
Aniline	UJ,SV7c ND	350	ug/kg
bis(2-Chloroethyl) - ether	ND	350	ug/kg
2-Chlorophenol	ND	350	ug/kg
1,3-Dichlorobenzene	ND	350	ug/kg
1,4-Dichlorobenzene	ND	350	ug/kg
Benzyl alcohol	ND	350	ug/kg
1,2-Dichlorobenzene	ND	350	ug/kg
2-Methylphenol	ND	350	ug/kg
3-Methylphenol & 4-Methylphenol	ND	700	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	350	ug/kg
N-Nitrosodi-n-propylamine	ND	350	ug/kg
Hexachloroethane	ND	350	ug/kg
Nitrobenzene	ND	350	ug/kg
Isophorone	ND	350	ug/kg
2-Nitrophenol	ND	350	ug/kg
2,4-Dimethylphenol	ND	350	ug/kg
bis(2-Chloroethoxy) methane	ND	350	ug/kg
Benzoic acid	ND	1700	ug/kg
2,4-Dichlorophenol	ND	350	ug/kg
1,2,4-Trichlorobenzene	ND	350	ug/kg
Naphthalene	ND	350	ug/kg
4-Chloroaniline	ND	350	ug/kg
Hexachlorobutadiene	ND	350	ug/kg
4-Chloro-3-methylphenol	ND	350	ug/kg
2-Methylnaphthalene	ND	350	ug/kg
Hexachlorocyclopentadiene	ND	1700	ug/kg
2,4,6-Trichlorophenol	ND	350	ug/kg
2,4,5-Trichlorophenol	ND	350	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-005 Work Order #....: LXNKH1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	350	ug/kg
2-Nitroaniline	ND	1700	ug/kg
Dimethyl phthalate	ND	350	ug/kg
Acenaphthylene	ND	350	ug/kg
2,6-Dinitrotoluene	ND	350	ug/kg
3-Nitroaniline	ND	1700	ug/kg
Acenaphthene	ND	350	ug/kg
2,4-Dinitrophenol	ND	1700	ug/kg
4-Nitrophenol	ND	1700	ug/kg
Dibenz(a,h)anthracene	ND	350	ug/kg
Dibenzofuran	ND	350	ug/kg
2,4-Dinitrotoluene	ND	350	ug/kg
Diethyl phthalate	ND	350	ug/kg
Fluorene	ND	350	ug/kg
4-Chlorophenyl phenyl ether	ND	350	ug/kg
4-Nitroaniline	ND	1700	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1700	ug/kg
N-Nitrosodiphenylamine	UJ,SV7c ND	350	ug/kg
Azobenzene	ND	350	ug/kg
Pyrene	ND	350	ug/kg
4-Bromophenyl phenyl ether	ND	350	ug/kg
Hexachlorobenzene	ND	350	ug/kg
Pentachlorophenol	ND	1700	ug/kg
Phenanthrene	ND	350	ug/kg
Anthracene	ND	350	ug/kg
Di-n-butyl phthalate	ND	350	ug/kg
Fluoranthene	ND	350	ug/kg
Butyl benzyl phthalate	ND	350	ug/kg
Benzo(a)anthracene	ND	350	ug/kg
3,3'-Dichlorobenzidine	ND	1700	ug/kg
Chrysene	ND	350	ug/kg
bis(2-Ethylhexyl) phthalate	ND	350	ug/kg
Di-n-octyl phthalate	ND	350	ug/kg
Benzo(b)fluoranthene	ND	350	ug/kg
Benzo(k)fluoranthene	ND	350	ug/kg
Benzo(a)pyrene	ND	350	ug/kg
Indeno(1,2,3-cd)pyrene	ND	350	ug/kg
Benzo(ghi)perylene	ND	350	ug/kg

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LOT # F0D080489

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Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 005

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKH1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 6.2      QC Batch: 0100038

Client Sample Id: RE12-10-15446

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8353	250	
	Unknown aldol condensate	4.2946	8000	
5131-66-8	2-Propanol, 1-butoxy-	4.989	350	
57-10-3	N-hexadecanoic acid	9.3793	240	
	Unknown	9.9615	160	
	Unknown	11.067	210	

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-006    Work Order #....: LXNKJ1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 21:20  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	380	ug/kg
Phenol	ND	380	ug/kg
Aniline	UJ,SV7c ND	380	ug/kg
bis(2-Chloroethyl)- ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
Benzyl alcohol	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
3-Methylphenol & 4-Methylphenol	ND	770	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	380	ug/kg
N-Nitrosodi-n-propyl- amine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichloro- benzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	380	ug/kg
2,4,5-Trichloro- phenol	ND	380	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-006 Work Order #....: LXNKJ1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Dibenzofuran	ND	380	ug/kg
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	UJ,SV7c ND	380	ug/kg
Azobenzene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

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KFG 05/10/10

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKJ1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15445

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8314	530	
	Unknown aldol condensate	4.2961	9500	
26560-14-5	1,3,6,10-Dodecatetraene, 3,7	7.3244	240	
	Unknown	7.4259	320	
	Unknown	7.49	1300	
	Unknown	7.5328	7600	
	Unknown	7.5915	190	
	Unknown	7.7357	810	
	Unknown	7.7571	410	
	Unknown	8.414	350	
	Unknown	8.6437	220	
	Unknown	8.6918	1300	
	Unknown organic acid	9.3861	280	
	Unknown	9.9255	190	
	Unknown	10.117	250	
	Unknown	10.358	960	
	Unknown	10.582	780	
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,	10.748	13000	
	Unknown	11.073	250	
	Unknown	11.25	180	
	Unknown	11.335	270	
6755-93-7	2(1H)-phenanthrenone, 3,4,4a	11.602	330	
511-05-7	9(1H)-phenanthrenone, 2,3,4,	11.965	180	
	Unknown	12.051	980	
	Unknown	12.986	1600	
	Unknown	14.428	820	

FORM I - TIC

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-007    Work Order #....: LXNKL1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 21:45  
 Dilution Factor: 1  
 % Moisture.....: 3.3    Method.....: SW846 B270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	340	ug/kg
Phenol	ND	340	ug/kg
Aniline	UJ,SV7c ND	340	ug/kg
bis(2-Chloroethyl) - ether	ND	340	ug/kg
2-Chlorophenol	ND	340	ug/kg
1,3-Dichlorobenzene	ND	340	ug/kg
1,4-Dichlorobenzene	ND	340	ug/kg
Benzyl alcohol	ND	340	ug/kg
1,2-Dichlorobenzene	ND	340	ug/kg
2-Methylphenol	ND	340	ug/kg
3-Methylphenol & 4-Methylphenol	ND	680	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	340	ug/kg
N-Nitrosodi-n-propyl- amine	ND	340	ug/kg
Hexachloroethane	ND	340	ug/kg
Nitrobenzene	ND	340	ug/kg
Isophorone	ND	340	ug/kg
2-Nitrophenol	ND	340	ug/kg
2,4-Dimethylphenol	ND	340	ug/kg
bis(2-Chloroethoxy) methane	ND	340	ug/kg
Benzoic acid	ND	1700	ug/kg
2,4-Dichlorophenol	ND	340	ug/kg
1,2,4-Trichloro- benzene	ND	340	ug/kg
Naphthalene	ND	340	ug/kg
4-Chloroaniline	ND	340	ug/kg
Hexachlorobutadiene	ND	340	ug/kg
4-Chloro-3-methylphenol	ND	340	ug/kg
2-Methylnaphthalene	ND	340	ug/kg
Hexachlorocyclopenta- diene	ND	1700	ug/kg
2,4,6-Trichloro- phenol	ND	340	ug/kg
2,4,5-Trichloro- phenol	ND	340	ug/kg

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KFG 05/10/10

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-007 Work Order #...: LXNKL1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2-Chloronaphthalene	ND	340	ug/kg
2-Nitroaniline	ND	1700	ug/kg
Dimethyl phthalate	ND	340	ug/kg
Acenaphthylene	ND	340	ug/kg
2,6-Dinitrotoluene	ND	340	ug/kg
3-Nitroaniline	ND	1700	ug/kg
Acenaphthene	ND	340	ug/kg
2,4-Dinitrophenol	ND	1700	ug/kg
4-Nitrophenol	ND	1700	ug/kg
Dibenz(a,h)anthracene	ND	340	ug/kg
Dibenzofuran	ND	340	ug/kg
2,4-Dinitrotoluene	ND	340	ug/kg
Diethyl phthalate	ND	340	ug/kg
Fluorene	ND	340	ug/kg
4-Chlorophenyl phenyl ether	ND	340	ug/kg
4-Nitroaniline	ND	1700	ug/kg
4,6-Dinitro-2-methylphenol	ND	1700	ug/kg
N-Nitrosodiphenylamine	UJ,SV7c ND	340	ug/kg
Azobenzene	ND	340	ug/kg
Pyrene	ND	340	ug/kg
4-Bromophenyl phenyl ether	ND	340	ug/kg
Hexachlorobenzene	ND	340	ug/kg
Pentachlorophenol	ND	1700	ug/kg
Phenanthrene	ND	340	ug/kg
Anthracene	ND	340	ug/kg
Di-n-butyl phthalate	ND	340	ug/kg
Fluoranthene	ND	340	ug/kg
Butyl benzyl phthalate	ND	340	ug/kg
Benzo(a)anthracene	ND	340	ug/kg
3,3'-Dichlorobenzidine	ND	1700	ug/kg
Chrysene	ND	340	ug/kg
bis(2-Ethylhexyl) phthalate	ND	340	ug/kg
Di-n-octyl phthalate	ND	340	ug/kg
Benzo(b)fluoranthene	ND	340	ug/kg
Benzo(k)fluoranthene	ND	340	ug/kg
Benzo(a)pyrene	ND	340	ug/kg
Indeno(1,2,3-cd)pyrene	ND	340	ug/kg
Benzo(ghi)perylene	ND	340	ug/kg

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KFG 05/10/10

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKL1AE

Date Extracted: 04/10/10

Dilution factor: 1


Date Analyzed: 04/15/10

Moisture %: 3.3

QC Batch: 0100038

Client Sample Id: RE12-10-15447

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8272	290	
	Unknown aldol condensate	4.2918	9200	
5131-66-8	2-Propanol, 1-butoxy-	4.9915	380	
	Unknown	8.3511	150	
	Unknown organic acid	9.3765	200	
	Unknown	11.069	200	

DATA VALIDATION COVER SHEET	
<b>5122-1</b>  <div style="text-align: center;"><b>Data Validation Cover Sheet</b></div>	<div style="text-align: center;">Records Use only</div> <div style="text-align: center;">  </div>


Section I.	
REQUEST NUMBER: <u>10-2687</u>	VALIDATION DATE: <u>05/10/10</u>
LAB CODE: <u>STSL</u>	
CONTRACT LABORATORY NAME: <u>TestAmerica Laboratories, Inc. – St. Louis</u>	
VALIDATOR: <u>Karen Germann</u>	ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>
ANALYTICAL SUITE (CHECK ALL THAT APPLY):	
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY
<input type="checkbox"/> OTHER (DESCRIBE):	
<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> LCMSMS PERCHLORATES
<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input checked="" type="checkbox"/> LCMSMS HIGH EXPLOSIVES	

Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA


Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. The ICAL RRFs were <0.05 but ≥0.01 for 2-nitrotoluene and 3-nitrotoluene. The associated sample results were NDs and, thus, were qualified UJ,HE7b.
2. The ICV and/or CCV %Ds were >20% with positive bias for TATB; nitrobenzene; 2-nitrotoluene; 3-nitrotoluene; 4-nitrotoluene; and PETN. The associated sample results were NDs and, thus, were not qualified.
3. The 1,2-dinitrobenzene surrogate %R was > the laboratory UAL for sample RE12-10-15444. The associated sample results were NDs and, thus, were not qualified.
4. It should be noted that the 1,2-dinitrobenzene surrogate %R was > the laboratory UAL for the MB. No sample results were qualified.
5. The LCS %Rs were > the laboratory UALs for 2-amino-4,6-dinitrotoluene; 4-amino-2,6-dinitrotoluene; 2-nitrotoluene; 4-nitrotoluene; and 2,4,6-trinitrotoluene. The associated sample results were NDs and, thus, were not




LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The IS retention time has shifted by more than 30 seconds.	R, UJ, HE0	J, HE0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE0b	R, HE0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows.	R, HE1a	J, HE1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count for the quantitating IS is <70% but >25% of the average of that obtained from the calibration standards.	UJ, HE1b	J+, HE1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standards.	UJ, HE1c	J-, HE1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE1d	R, HE1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The surrogate is <10%R. Follow the external laboratory limits.	R, HE3	J-, HE3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The surrogate is < the Lower Acceptance Limit but ≥10% recovery. Follow the external laboratory limits.	UJ, HE3a	J-, HE3a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. The surrogate %R value is > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE3b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. At least one surrogate is > the Upper Acceptance Limit and one surrogate is < the Lower Acceptance Limit. Follow the external laboratory limits.	UJ, HE3c	J, HE3c


LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE3d	R, HE3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The sample result is $\leq 5$ times the concentration of the related analyte in the method blank.	U, HE4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $>5x$ .	N/A	J, HE4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, HE4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE4e	R, HE4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The absence of sample carry-over must be determined and verified.	N/A	R, N, HE4f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, HE7	J, HE7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is less $< 0.99$ .	UJ, R, HE7a	J, HE7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19. The affected analytes were analyzed with a RRF of $< 0.05$ in the initial calibration and/or CCV.	UJ, R, HE7b	J, HE7b
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The ICV and/or CCV were recovered outside the method limits.	UJ, R, HE7c	J, HE7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, HE7d	J, HE7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, HE7f	R, HE7f

LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	Records Use only  

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE8a	R, HE8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, HE9	J-, HE9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The holding time was >2 times the applicable holding time requirement.	R, HE9a	J-, HE9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, HE12	J-, HE12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, HE12a	J-, HE12a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, HE12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, HE12c	R, HE12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The MS/MSD percent recovery was <10%.	R, HE12d	R, HE12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The MS/MSD percent recovery was >10% but <70%.	UJ, HE12e	J, HE12e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32. The MS/MSD percent recover was >70%.	N/A	J+, HE12f
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. The MS/MSD relative percent difference was >30%.	UJ, HE12g	J, HE12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. (Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.)	UJ, R, HE15	R, HE15
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. The sample was diluted because target analytes were > the initial verification calibration.	UJ, HE15a	J, HE15a



LC/MS/MS HIGH EXPLOSIVE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5122-2</b>  <b>LC/MS/MS High Explosive Analytical Data Validation Checklist</b>	Records Use only  

Yes   No   N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criteria.	UJ, R, HE16	J, HE16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, HE16c	R, HE16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, HE19	J, R, HE19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, HE88	J, HE88

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-001    Work Order #....: LKNJ91AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/14/10  
 Prep Batch #....: 0099309    Analysis Time...: 22:40  
 Dilution Factor: 1  
 % Moisture.....: 17    Method.....: STL SW846 8321

PARAMETER		RESULT	REPORTING LIMIT	UNITS
Nitroglycerin		ND	750	ug/kg
2,4-diamino-6-nitrotoluene		ND	120	ug/kg
2,6-diamino-4-nitrotoluene		ND	120	ug/kg
3,5-Dinitroaniline		ND	60	ug/kg
Tris (o-cresyl) Phosphate		ND	60	ug/kg
TATB	UJ,HE12g	ND	480	ug/kg
2-Amino-4,6-dinitrotoluene		ND	60	ug/kg
4-Amino-2,6-dinitrotoluene		ND	60	ug/kg
1,3-Dinitrobenzene		ND	60	ug/kg
2,4-Dinitrotoluene		ND	60	ug/kg
2,6-Dinitrotoluene		ND	60	ug/kg
HMX		ND	120	ug/kg
Nitrobenzene		ND	120	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	300	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	480	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	480	ug/kg
RDX		ND	120	ug/kg
Tetryl		ND	60	ug/kg
1,3,5-Trinitrobenzene		ND	60	ug/kg
2,4,6-Trinitrotoluene		ND	60	ug/kg
PETN		ND	750	ug/kg
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
1,2-Dinitrobenzene		118	(59 - 113)	

**NOTE (S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 00:40  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: STL SW846 8321

PARAMETER		RESULT	REPORTING	
			LIMIT	UNITS
Nitroglycerin		ND	740	ug/kg
2,4-diamino-6-nitrotoluene		ND	120	ug/kg
2,6-diamino-4-nitrotoluene		ND	120	ug/kg
3,5-Dinitroaniline		ND	59	ug/kg
Tris (o-cresyl) Phosphate		ND	59	ug/kg
TATB	UJ,HE12g	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene		ND	59	ug/kg
4-Amino-2,6-dinitrotoluene		ND	59	ug/kg
1,3-Dinitrobenzene		ND	59	ug/kg
2,4-Dinitrotoluene		ND	59	ug/kg
2,6-Dinitrotoluene		ND	59	ug/kg
HMX		ND	120	ug/kg
Nitrobenzene		ND	120	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	300	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	470	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	470	ug/kg
RDX		ND	120	ug/kg
Tetryl		ND	59	ug/kg
1,3,5-Trinitrobenzene		ND	59	ug/kg
2,4,6-Trinitrotoluene		ND	59	ug/kg
PETN		ND	740	ug/kg
		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	
1,2-Dinitrobenzene		111	(59 - 113)	

## NOTE(S):

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## HPLC - Mass. Spec.

Lot-Sample #...: F0D080489-003    Work Order #...: LXNKE1AD    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #...: 0099309    Analysis Time...: 01:21  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: STL SW846 8321

PARAMETER		RESULT	REPORTING LIMIT	UNITS
Nitroglycerin		ND	730	ug/kg
2,4-diamino-6-nitrotoluene		ND	120	ug/kg
2,6-diamino-4-nitrotoluene		ND	120	ug/kg
3,5-Dinitroaniline		ND	58	ug/kg
Tris (o-cresyl) Phosphate		ND	58	ug/kg
TATB	UJ,HE12g	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene		ND	58	ug/kg
4-Amino-2,6-dinitrotoluene		ND	58	ug/kg
1,3-Dinitrobenzene		ND	58	ug/kg
2,4-Dinitrotoluene		ND	58	ug/kg
2,6-Dinitrotoluene		ND	58	ug/kg
HMX		ND	120	ug/kg
Nitrobenzene		ND	120	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	290	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	470	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	470	ug/kg
RDX		ND	120	ug/kg
Tetryl		ND	58	ug/kg
1,3,5-Trinitrobenzene		ND	58	ug/kg
2,4,6-Trinitrotoluene		ND	58	ug/kg
PETN		ND	730	ug/kg
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
1,2-Dinitrobenzene		102	(59 - 113)	

**NOTE(S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-005    Work Order #....: LKNKH1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 02:41  
 Dilution Factor: 1  
 % Moisture.....: 6.2    Method.....: STL SW846 8321

		REPORTING		
PARAMETER		RESULT	LIMIT	UNITS
Nitroglycerin		ND	670	ug/kg
2,4-diamino-6-nitrotoluene		ND	110	ug/kg
2,6-diamino-4-nitrotoluene		ND	110	ug/kg
3,5-Dinitroaniline		ND	53	ug/kg
Tris (o-cresyl) Phosphate		ND	53	ug/kg
TATB	UJ,HE12g	ND	430	ug/kg
2-Amino-4,6-dinitrotoluene		ND	53	ug/kg
4-Amino-2,6-dinitrotoluene		ND	53	ug/kg
1,3-Dinitrobenzene		ND	53	ug/kg
2,4-Dinitrotoluene		ND	53	ug/kg
2,6-Dinitrotoluene		ND	53	ug/kg
HMX		ND	110	ug/kg
Nitrobenzene		ND	110	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	270	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	430	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	430	ug/kg
RDX		ND	110	ug/kg
Tetryl		ND	53	ug/kg
1,3,5-Trinitrobenzene		ND	53	ug/kg
2,4,6-Trinitrotoluene		ND	53	ug/kg
PETN		ND	670	ug/kg
		PERCENT	RECOVERY	
SURROGATE		RECOVERY	LIMITS	
1,2-Dinitrobenzene		110	(59 - 113)	

**NOTE(S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-006    Work Order #....: LXNKJ1AD    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 03:21  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: STL SW846 8321

PARAMETER		RESULT	REPORTING LIMIT	UNITS
Nitroglycerin		ND	730	ug/kg
2,4-diamino-6-nitrotoluene		ND	120	ug/kg
2,6-diamino-4-nitrotoluene		ND	120	ug/kg
3,5-Dinitroaniline		ND	58	ug/kg
Tris (o-cresyl) Phosphate		ND	58	ug/kg
TATB	UJ,HE12g	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene		ND	58	ug/kg
4-Amino-2,6-dinitrotoluene		ND	58	ug/kg
1,3-Dinitrobenzene		ND	58	ug/kg
2,4-Dinitrotoluene		ND	58	ug/kg
2,6-Dinitrotoluene		ND	58	ug/kg
HMX		ND	120	ug/kg
Nitrobenzene		ND	120	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	290	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	470	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	470	ug/kg
RDX		ND	120	ug/kg
Tetryl		ND	58	ug/kg
1,3,5-Trinitrobenzene		ND	58	ug/kg
2,4,6-Trinitrotoluene		ND	58	ug/kg
PETN		ND	730	ug/kg
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS	
1,2-Dinitrobenzene		107	(59 - 113)	

**NOTE(S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

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LOT # F0D080489

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-007    Work Order #....: LKNKL1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 04:41  
 Dilution Factor: 1  
 % Moisture.....: 3.3    Method.....: STL SW846 8321

PARAMETER		RESULT	REPORTING LIMIT	UNITS
Nitroglycerin		ND	650	ug/kg
2,4-diamino-6-nitrotoluene		ND	100	ug/kg
2,6-diamino-4-nitrotoluene		ND	100	ug/kg
3,5-Dinitroaniline		ND	52	ug/kg
Tris (o-cresyl) Phosphate		ND	52	ug/kg
TATB	UJ,HE12g	ND	410	ug/kg
2-Amino-4,6-dinitrotoluene		ND	52	ug/kg
4-Amino-2,6-dinitrotoluene		ND	52	ug/kg
1,3-Dinitrobenzene		ND	52	ug/kg
2,4-Dinitrotoluene		ND	52	ug/kg
2,6-Dinitrotoluene		ND	52	ug/kg
HMX		ND	100	ug/kg
Nitrobenzene		ND	100	ug/kg
2-Nitrotoluene	UJ,HE7b	ND	260	ug/kg
3-Nitrotoluene	UJ,HE7b	ND	410	ug/kg
4-Nitrotoluene	UJ,HE12g	ND	410	ug/kg
RDX		ND	100	ug/kg
Tetryl		ND	52	ug/kg
1,3,5-Trinitrobenzene		ND	52	ug/kg
2,4,6-Trinitrotoluene		ND	52	ug/kg
PETN		ND	650	ug/kg
		PERCENT RECOVERY	RECOVERY LIMITS	
SURROGATE				
1,2-Dinitrobenzene		103	(59 - 113)	

**NOTE(S):**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

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LOT # F0D080489

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## DATA VALIDATION COVER SHEET

5116-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-2687 VALIDATION DATE: 05/10/10 LAB CODE: STSLCONTRACT LABORATORY NAME: TestAmerica Laboratories, Inc. - St. LouisVALIDATOR: Karen Germann ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> TPH-GRO                       | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS             | <input type="checkbox"/> LCMSMS PERCHLORATES  |
| <input type="checkbox"/> TPH-DRO                       | <input type="checkbox"/> METALS          | <input type="checkbox"/> PCB CONGENERS             | <input checked="" type="checkbox"/> ORGANOCHLORINE<br>PESTICIDES/POLYCHLORINATED<br>BIPHENYLS |
| <input type="checkbox"/> GENERAL CHEMISTRY             | <input type="checkbox"/> RADIOCHEMISTRY  | <input type="checkbox"/> LCMSMS HIGH<br>EXPLOSIVES |   |
| <input type="checkbox"/> OTHER (DESCRIBE): <u>PCBs</u> |  |  |   |


## Section II. Completeness Check

- | YES                                 | NO                       | N/A                                 | (CHECK ONE)                 | YES                                 | NO                       | N/A                                 | (CHECK ONE)              |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 6. RAW/BSS DATA          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 2. CASE NARRATIVE           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 3. SAMPLE RESULT FORMS      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 8. QUANTITATION REPORTS  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 4. SAMPLE CHROMATOGRAMS     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS            |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA    |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. It should be noted that the decachlorobiphenyl surrogate %R was > the laboratory UAL for the MB for the batch associated with samples RE12-10-15444 and -15443. No sample results were qualified.
2. It should be noted that the decachlorobiphenyl surrogate %Rs were > the laboratory UAL for the CCVs for one column. No sample results were qualified.
3. It should be noted that for the batch associated with samples -15442 and -15448, the MS/MSD analyses were performed on a LANL sample from another RN. The MS and MSD %Rs for Aroclor-1260 were > the laboratory UAL, however, the parent sample concentration was >4X the spike concentration. Based on professional judgment, no sample results were qualified.

Reviewed by: ETMLevel: 1Date: 5/10/10

DATA VALIDATION COVER SHEET	
<b>5116-1</b>  <b>Data Validation Cover Sheet</b>	Records Use only   Los Alamos NATIONAL LABORATORY EST. 1945
VALIDATOR'S SIGNATURE: <u>Karen F. Hernan</u> DATE: <u>05/10/10</u>	
Form 5116-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

# **ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST**

5116-2

## **Organochlorine Pesticide (PEST) and Polychlorinated Biphenyl (PCB) Analytical Data Validation Checklist**

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, P9	J-, P9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, P9	J-, P9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, P9b	R, P9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, P7	J, P7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, P7a	J, P7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, P7c	J, P7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, P7d	J, P7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The multicomponent standard was not analyzed within 72 hours of the initial analysis.	R, P7e	J, P7e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, P7f	R, P7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify J-. If compound is not present, but breakdown products are present, qualify R. If no compounds or breakdown products are present, qualify UJ (4,4' DDT and Endrin).	UJ, R, P13	J-, P13

**ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB)  
ANALYTICAL DATA VALIDATION CHECKLIST**

5116-2

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Biphenyl (PCB) Analytical Data Validation Checklist**

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.	UJ, P13a	J+, P13a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P13b	R, P13b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, P4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than $5X$ .	N/A	J, P4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	UJ, P4b	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	UJ, P4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P4e	R, P4e
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18. The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.	R, P0	J, P0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P0b	R, P0b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The surrogate is $<10\%R$ . Follow the external laboratory limits located within the associated data package.	R, P3	J-, P3

# **ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB) ANALYTICAL DATA VALIDATION CHECKLIST**

5116-2

**Organochlorine Pesticide (PEST) and Polychlorinated  
Biphenyl (PCB) Analytical Data Validation Checklist**

Records Use only



Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The surrogate is < the Lower Acceptance Level (LAL) but $\geq 10\%R$ . Follow the external laboratory limits located within the associated data package.	UJ, P3a	J-, P3a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22. The surrogate %R value is > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P3b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. At least one surrogate is > the Upper Acceptance Limit (UAL) and one surrogate is < the LAL. Follow the external laboratory limits located within the associated data package.	UJ, P3c	J, P3c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P3d	R, P3d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, P12	J-, P12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, P12a	J-, P12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, P12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P12c	R, P12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The analyte was not confirmed on a second dissimilar column.	N/A	R, P8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The second dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, P8a	R, P8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. Duplicate, Dilution, or reanalysis.	UJ, P88	J, P88

**ORGANOCHLORINE PESTICIDE (PEST) AND POLYCHLORINATED BIPHENYL (PCB)  
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5116-2

**Organochlorine Pesticide (PEST) and Polychlorinated  
Biphenyl (PCB) Analytical Data Validation Checklist**

Records Use only



Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, P15	R, P15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. The LANL project chemist identified quality deficiencies in the reported data that requires further qualification. This code can only be used and/or under advisement by the LANL project chemist.	UJ, R, P19	J, R, P19

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC Semivolatiles

Lot-Sample #....: F0D080489-001    Work Order #....: LXNJ91AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/12/10    Analysis Date...: 04/15/10  
Prep Batch #....: 0102197    Analysis Time...: 07:57  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	11 J	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	115	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

KFG 05/10/10

LOT # F0D080489

57 of 1145

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC Semivolatiles

Lot-Sample #...: F0D080489-002    Work Order #...: LXNKC1AF    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/12/10    Analysis Date...: 04/15/10  
Prep Batch #...: 0102197    Analysis Time...: 08:52  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(49 - 150)

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

KFG 05/10/10



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC Semivolatiles

Lot-Sample #....: F0D080489-003    Work Order #....: LXNKE1AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/10/10    Analysis Date...: 04/16/10  
Prep Batch #....: 0100042    Analysis Time...: 21:28  
Dilution Factor: 1  
% Moisture.....: 14    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	15 J	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC Semivolatiles

Lot-Sample #....: F0D080489-004    Work Order #....: LXNKG1AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/10/10    Analysis Date...: 04/16/10  
Prep Batch #....: 0100042    Analysis Time...: 21:47  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	125	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

Hard Copy Required

Page 1 of 1

Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2687C

LOS ALAMOS

REQUEST NUMBER: 10-2687

NATIONAL LABORATORY

CUR 93

ATTN: Mike Franks

TURNAROUND/REPORT DUE: 4/17/2010

Severn Trent Laboratories, Inc., St. Louis

TURNAROUND REQ'D: 10

13715 Rider Trail N.

Earth City, MO 63045

LAB REQUEST COMMENTS: 10 full data package

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15443	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15442	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15448	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15446	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15445	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15447	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:

Date

Time

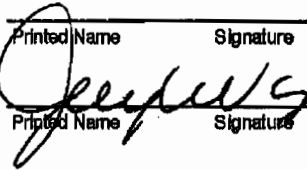
Received By:

Date

Time

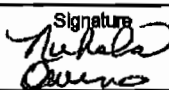
Printed Name

Signature

 4/7/10 1400

Printed Name

Signature

NICHOLAS  
OWENS

4/8/10

0915

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By: Date

Time

Remarks:

Printed Name

Signature

Page 1 of 2

**REQUEST NUMBER: 10-2687**

**Hard Copy Required**

Wednesday, April 07, 2010

**LOS ALAMOS  
NATIONAL LABORATORY**

**ATTN: Mike Franks**

**Severn Trent Laboratories, Inc., St. Louis**

**13715 Rider Trail N.**

**Earth City, MO 63045**

**These Samples are on:**

LANL Request Number:10-2687

Per Agreement Number: 126310021

**Project Cost Code: MR3A05529E00**

**Please analyse the enclosed samples according to the schedule indicated:**

SHIP DATE: 4/7/2010

**TURNAROUND/REPORT DUE: 4/17/2010**

**TURNAROUND REQ'D: 10 Days**

## RAD SCREENING: Yes, Below Background

**LAB REQUEST COMMENTS: 10 full data package**

**LANL ER SMO CONTACT:**

**Signature:**

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846:8270C	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	

LOT # F0D080489

Wednesday, April 07, 2010

Hard Copy Required

Page 2 of 2

REQUEST NUMBER: 10-2687

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8270C	1	RE12-10-15448	R	4/6/2010	
	SW-846:8321A_MOD	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	

Final Page of REQUEST NUMBER 10-2687

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TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

PROJECT NO. 10-2687

Los Alamos National Lab

Lot #: F0D080489

Joylene Valdez or Keith Greene

Los Alamos National Laboratory

SMO TA-00 Bldg 1237

DP: 03U; MS: 707

Los Alamos, NM 87545

TESTAMERICA LABORATORIES, INC.

Michael C. Franks

Project Manager

A handwritten signature in cursive script that reads "Jayna Pohl". Below the signature, the year "2010" is written in a smaller, less legible script.

April 20, 2010

**TABLE OF CONTENTS - LOT # F0D080489**

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CLIENT CHAIN OF CUSTODY .....	5
SEMIVOLATILES .....	75
LC/MS/MS - EXPLOSIVES .....	457
PCBs .....	631
WET CHEMISTRY RESULTS.....	1142
<b>TOTAL # OF PAGES IN PACKAGE .....</b>	<b>1145</b>

**Case Narrative**  
**LOT NUMBER: F0D080489**  
**LANL Request Number: 10-2687**

This report contains the analytical results for the seven samples received under chain of custody number 10-2687 by TestAmerica St. Louis on April 8, 2010. These samples are associated with your Los Alamos National Lab project.

All applicable quality control procedures met method-specified acceptance criteria except as noted in the following case narrative.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

This report is incomplete without the case narrative. All chemical analysis results are based upon dry weight correction as required per the statement of work. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

**Sample Receiving**

Samples were received at 3 °C. No problems were noted at the time of sample receipt.

**Explosives Method 8321**

In accordance with method 8321, samples are air dried under normal laboratory conditions for a period of time prior to extraction. Explosive results for soil samples, requesting results reported on a dry weight, will be adjusted for the % moisture result.

**QC Batch: 0099309**

The Method Blank shows no contamination above the reporting limit. The Method Blank surrogate recovery is outside the upper QC limit. Sample surrogate recoveries are within QC limits except sample F0D080489-001. There were no target analytes associated with this surrogate observed above the reporting limit in the sample.

The LCS recoveries for 2,4,6-TNT, 2-Nitrotoluene, 4-Nitrotoluene, 2-Amino-4,6-Dinitrotoluene, and 4-Amino-2,6-Dinitrotoluene are outside the upper QC limits, indicating a potential positive bias for these analytes. The analytes were not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion.

The Batch QC Matrix Spike and Matrix Spike Duplicate were performed on F0D080489-001 (this request). The MS/MSD recovery is outside the upper QC limits for 5 targets in the MS and 2-Nitrotoluene in the MSD, indicating a possible high bias for these targets in the samples. The RPD is outside the QC limits for 4-Nitrotoluene and TATB. These analytes were not detected above the reporting limit in the associated samples. Surrogate is in control for both the MS and MSD.

The CCV recovery was outside the upper QC limits (greater than 130% D) for Nitrobenzene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Nitrotoluene, and PETN, indicating a potential high bias for these



analytes in the samples associated with these CCV's. These analytes were not detected above the reporting limit in the associated samples.

**Affected Samples:**

F0D080489 (1): RE12-10-15444  
F0D080489 (2): RE12-10-15443  
F0D080489 (3): RE12-10-15442  
F0D080489 (4): RE12-10-15448  
F0D080489 (5): RE12-10-15446  
F0D080489 (6): RE12-10-15445  
F0D080489 (7): RE12-10-15447

Sample surrogate recovery is outside the upper QC limit indicating a potential positive bias. There were no target analytes associated with this surrogate detected above the reporting limit in the sample.

**Affected Samples:**

F0D080489 (1): RE12-10-15444

The reporting limit check (CRI) recoveries are outside the client upper limit (70-130%) for 2,4,6-TNT, PETN, 2-Nitrotoluene, 3-Nitrotoluene and 4-Nitrotoluene, indicating a potential bias at the concentration around the reporting limit. There were no target analytes detected in the samples above the reporting limit.

**Affected Samples:**

F0D080489 (1): RE12-10-15444  
F0D080489 (2): RE12-10-15443  
F0D080489 (3): RE12-10-15442  
F0D080489 (4): RE12-10-15448  
F0D080489 (5): RE12-10-15446  
F0D080489 (6): RE12-10-15445  
F0D080489 (7): RE12-10-15447

**Semivolatile Organics Method 8270C**

**QC Batch: 0100038**

The Method Blank shows no contamination above the reporting limit. Surrogate recoveries are within laboratory stated limits.

The LCS is within stated limits.

The Batch QC Matrix Spike and Matrix Spike Duplicate were performed on F0D070439-002 (request 10-2669). The MS/MSD recoveries for Di-n-octyl phthalate are outside the upper established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery. Surrogates are in control for both the MS and MSD.

**PCB Method 8082**

**QC Batch: 0102197**

The Method Blank shows no contamination above the reporting limit. The Method Blank surrogate recovery is outside acceptance limits. Samples, associated with this Method Blank, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the Method Blank and not indicative of the batch.

The LCS is within stated limits.

The Batch QC Matrix Spike and Matrix Spike Duplicate were performed on F0D080489-001 (this request). The Matrix Spike and Matrix Spike Duplicate recoveries and RPD values are within stated limits. Surrogate is in control for both the MS and MSD.

The CCV surrogate recoveries for VCAL622, VCAL633, VCAL644, and VCAL648 were outside the upper QC limits (greater than 20%D) on the secondary/unreported column for DCB indicating a potential high bias for this surrogate in the associated samples. This column will be used as a confirmation column only and thus no data results will be reported from this column.

**Affected Samples:**

F0D080489 (1): RE12-10-15444

F0D080489 (2): RE12-10-15443

**QC Batch: 0100042**

The Method Blank shows no contamination above the reporting limit. Surrogate recovery is within laboratory stated limits.

The LCS is within stated limits.

The Batch QC Matrix Spike and Matrix Spike Duplicate were performed on F0D070439-002 (request 10-2669). The MS/MSD recoveries for Aroclor 1260 are outside the established QC limits. The analyte concentration in the original sample is greater than four times the amount spike, making percent recovery information statistically invalid. Method performance is demonstrated by acceptable LCS recovery. The RPD value is within stated limits. Surrogate is in control for both the MS and MSD.

I certify that this data is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the signature on the front page, has authorized release of the data contained in this hardcopy.

F0D080489

## CLIENT ANALYSIS SUMMARY

Storage Loc: 2-57/59

Project Manager: MCF Quote #: 85705 ✓ SDG: F0D080489 ✓  
 Project: 10-2687 ✓ Los Alamos National Lab  
 PO#: 63639-001-10 Report to: Joylene Valdez or Keith  
 Client: 108581 Los Alamos National Laboratory

Date Received: 2010-04-08 ✓  
 Analytical Due Date: 2010-04-16 ✓  
 Report Due Date: 2010-04-19 ✓  
 Report Type: D Expanded Deliverable  
 EDD Code: 99

#SMPS in LOT: 7

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT. EXCEPT RAD \*\*\*\*\* METALS AND WETCHEMISTRY \*\*\*\*\* Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	RE12-10-15444 ✓			2010-04-06 / 0 ✓	LXNJ9	SOLID ✓
SAMPLE COMMENTS:						
XX QH	SW846 8082		SOLID, 8082, PCB ✓	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX QL	SW846 8270C		SOLID, 8270C, SEMIN ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y
XX ZV	RAD SCREEN		SOLID, RAD SCREEN, ✓	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX WM	MCAW 180.3 MOD		SOLID, 180.3 MOD, Percent Moisture ✓	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
D XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06
S XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
2	RE12-10-15443 ✓			2010-04-06 / 0 ✓	LXNKC	SOLID ✓
SAMPLE COMMENTS:						
XX QH	SW846 8082		SOLID, 8082, PCB ✓	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX QL	SW846 8270C		SOLID, 8270C, SEMIN ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y
XX ZV	RAD SCREEN		SOLID, RAD SCREEN, ✓	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX WM	MCAW 180.3 MOD		SOLID, 180.3 MOD, Percent Moisture ✓	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
D XX QL	SW846 8270C		SOLID, 8270C, SEMIN	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y
S XX QL	SW846 8270C		SOLID, 8270C, SEMIN	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
3	RE12-10-15442 ✓			2010-04-06 / 0 ✓	LXNKE	SOLID ✓
SAMPLE COMMENTS:						
XX QH	SW846 8082		SOLID, 8082, PCB ✓	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX QL	SW846 8270C		SOLID, 8270C, SEMIN ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y
XX ZV	RAD SCREEN		SOLID, RAD SCREEN, ✓	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A WRK LOC 06
XX WM	MCAW 180.3 MOD		SOLID, 180.3 MOD, Percent Moisture ✓	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06
D XX QH	SW846 8082		SOLID, 8082, PCB	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06
S XX QH	SW846 8082		SOLID, 8082, PCB	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
4	RE12-10-15448 ✓			2010-04-06 / 0 ✓	LXNKG	SOLID ✓
SAMPLE COMMENTS:						
XX QH	SW846 8082		SOLID, 8082, PCB ✓	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX A7	STL SW846 8321		SOLID, NMED Explosives by LC/MS/MS ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06
XX QL	SW846 8270C		SOLID, 8270C, SEMIN ✓	13 SONICATION - Low Level	01 STANDARD TEST SET	PROT: O WRK LOC 06 TIC: Y

F0D080489

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

2-57/59

Project Manager: MCF

Quote #: 85705

SDG: F0D080489

Date Received:

2010-04-08

Project: 10-2687

Los Alamos National Lab

Analytical Due Date:

2010-04-16

PO#: 63639-001-10

Report to: Joylene Valdez or Keith

Report Due Date:

2010-04-19

Client: 108581 Los Alamos National Laboratory

#SMPS in LOT: 7

Report Type: D

Expanded Deliverable

EDD Code: 99

Sample Receiving: LOS ALAMOS CLIENT REQUIREMENTS Enter COC NUMBER in the COC Field; SDG = "Lot Number" Project Name = "Request number"

LOG QC AS DETAILED BELOW FOR EACH DEPT, EXCEPT RAD \*\*\*\*\* METALS AND WETCHEMISTRY \*\*\*\*\* Can batch multiple Lots together and report Client sp

Batch QC: Matrix Spike and Sample Duplicate Met Prep: GFAA Spike Level and Standard Spike Level Sb spike at 100 ppb

Pb - Spike Solids at 100 ppb, spike Waters at 20 - Perform analytical spike when matrix spike is swamped with indigenous analyte.

XX ZV	RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX WM	MCAW W 160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
5	RE12-10-15446 ✓			2010-04-06 / 0 ✓	LXNKH	SOLID ✓

## SAMPLE COMMENTS:

XX A7	STL SW846 8321	SOLID, NMED Explosives by LC/MS/MS ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06
XX QL	SW846 8270C	SOLID, 8270C, SEMIN ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06 TIC: Y
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX WM	MCAW W 160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
6	RE12-10-15445 ✓			2010-04-06 / 0 ✓	LXNKJ	SOLID ✓

## SAMPLE COMMENTS:

XX A7	STL SW846 8321	SOLID, NMED Explosives by LC/MS/MS ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06
XX QL	SW846 8270C	SOLID, 8270C, SEMIN ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06 TIC: Y
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX WM	MCAW W 160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
7	RE12-10-15447 ✓			2010-04-06 / 0 ✓	LXNKL	SOLID ✓

## SAMPLE COMMENTS:

XX A7	STL SW846 8321	SOLID, NMED Explosives by LC/MS/MS ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06
XX QL	SW846 8270C	SOLID, 8270C, SEMIN ✓	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: O	WRK LOC	06 TIC: Y
XX ZV	RAD SCREEN	SOLID, RAD SCREEN, ✓	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX WM	MCAW W 160.3 MOD	SOLID, 160.3 MOD, Percent Moisture ✓	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

Hard Copy Required

Page 1 of 1

Wednesday, April 07, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2687C

LOS ALAMOS  
NATIONAL LABORATORY

REQUEST NUMBER: 10-2687

CAR 93

ATTN: Mike Franks

TURNAROUND/REPORT DUE: 4/17/2010

Severn Trent Laboratories, Inc., St. Louis

TURNAROUND REQ'D: 10

13715 Rider Trail N.

Earth City, MO 63045

LAB REQUEST COMMENTS: 10 full data package

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE12-10-15444	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15443	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15442	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15448	1	AMBER GLASS	8082+8270+NMED-EXP	Ice	R
RE12-10-15446	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15445	1	AMBER GLASS	8270C+NMED Exp	Ice	R
RE12-10-15447	1	AMBER GLASS	8270C+NMED Exp	Ice	R

Relinquished By:	Date	Time	Received By:	Date	Time
Printed Name Signature <i>[Signature]</i>	<i>4/7/10</i>	<i>1400</i>	Printed Name Signature <i>NICHOLAS OWENS</i>	<i>4/8/10</i>	<i>0915</i>
Printed Name	Signature		Printed Name	Signature	

Printed Name	Signature	Printed Name	Signature
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Received for DISPOSAL By:	Date	Time	Remarks:
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Printed Name	Signature
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Wednesday, April 07, 2010

**LOS ALAMOS**  
NATIONAL LABORATORY

ATTN: Mike Franks

Severn Trent Laboratories, Inc., St. Louis

13715 Rider Trail N.

Earth City, MO 63045

These Samples are on:

LANL Request Number: 10-2687

Per Agreement Number: 126310021

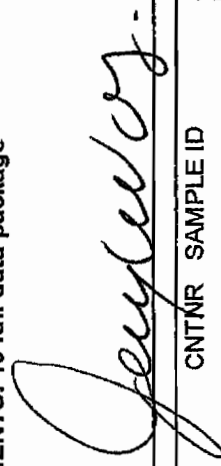
Project Cost Code: MR3A05529E00

REQUEST NUMBER: 10-2687

Please analyse the enclosed samples  
according to the schedule indicated:**SHIP DATE: 4/7/2010****TURNAROUND/REPORT DUE: 4/17/2010****TURNAROUND REQ'D: 10 Days****RAD SCREENING: Yes, Below Background****LAB REQUEST COMMENTS: 10 full data package**

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8082	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	
	SW-846:8270C	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	

REQUEST NUMBER: 10-2687

Wednesday, April 07, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8270C	1	RE12-10-15448	R	4/6/2010	
	SW-846:8321A_MOD	1	RE12-10-15442	R	4/6/2010	
		1	RE12-10-15443	R	4/6/2010	
		1	RE12-10-15444	R	4/6/2010	
		1	RE12-10-15445	R	4/6/2010	
		1	RE12-10-15446	R	4/6/2010	
		1	RE12-10-15447	R	4/6/2010	
		1	RE12-10-15448	R	4/6/2010	

Final Page of REQUEST NUMBER 10-2687

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F00080487  
489  
498  
501

**CONDITION UPON RECEIPT FORM**

Client: LANL

Quote No: 85724/85705

COC/RFA No: SEE BELOW

Initiated By: NVO

Date: 4/8/10

Time: 0915

**Shipping Information**

Shipper: FedEx UPS DHL Courier Client Other: \_\_\_\_\_ Multiple Packages: Q N

Shipping # (s):\*

Sample Temperature (s):\*\*

1. <u>7209 7850 6840</u>	6. _____	1. <u>3</u>	6. _____
2. <u>7209 7850 6830</u>	7. _____	2. <u>AUBREY</u>	7. _____
3. _____	8. _____	3. _____	8. _____
4. _____	9. _____	4. _____	9. _____
5. _____	10. _____	5. _____	10. _____

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

**Condition** (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <u>Y</u> N	Are there custody seals present on the cooler?	8. <u>Y</u> N	Are there custody seals present on bottles?
2. <u>Y</u> <u>N</u> N/A	Do custody seals on cooler appear to be tampered with?	9. <u>Y</u> <u>N</u> N/A	Do custody seals on bottles appear to be tampered with?
3. <u>Y</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. <u>Y</u> N N/A	Was sample received with proper pH? (If not, make note below)
4. <u>Y</u> N	Sample received with Chain of Custody?	11. <u>Y</u> N	Sample received in proper containers?
5. <u>Y</u> N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <u>Y</u> N <u>N/A</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <u>Y</u> <u>N</u>	Was sample received broken?	13. <u>Y</u> N <u>N/A</u>	Was Internal COC/Workshare received?
7. <u>Y</u> N	Is sample volume sufficient for analysis?	14. <u>Y</u> N <u>N/A</u>	Was pH taken by original TestAmerica lab?

\* For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

10-2684 - TAT STO per MF  
10-2687 - TAT 4/16 - 4/19 per MF  
10-2689  
10-2688

Corrective Action:

☐ Client Contact Name: \_\_\_\_\_  
☐ Sample(s) processed "as is"  
☐ Sample(s) on hold until: \_\_\_\_\_  
Project Management Review: Jayna Pohl

Informed by: \_\_\_\_\_

If released, notify: \_\_\_\_\_  
Date: 4/9/10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\slvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



**METHODS SUMMARY****F0D080489**

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Explosives by LC/MS/MS	STL SW846 8321	STL SOP
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B

**References:**

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

STL TestAmerica St. Louis Facility Standard Operating Procedure.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

**SAMPLE SUMMARY****F0D080489**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED</u> <u>DATE</u>	<u>SAMP</u> <u>TIME</u>
LXNJ9	001	RE12-10-15444	04/06/10	
LXNKC	002	RE12-10-15443	04/06/10	
LXNKE	003	RE12-10-15442	04/06/10	
LXNKG	004	RE12-10-15448	04/06/10	
LXNKH	005	RE12-10-15446	04/06/10	
LXNKJ	006	RE12-10-15445	04/06/10	
LXNKL	007	RE12-10-15447	04/06/10	

**NOTE(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.

**QC DATA ASSOCIATION SUMMARY****F0D080489**

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8082		0102197	0102153
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
002	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8082		0102197	0102153
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
003	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8082		0100042	0100033
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
004	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8082		0100042	0100033
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
005	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
006	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226
007	SOLID	STL SW846 8321		0099309	0099220
	SOLID	SW846 8270C		0100038	0100031
	SOLID	MCAWW 160.3 MOD		0102368	0102226

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## HPLC - Mass. Spec.

Lot-Sample #...: F0D080489-001    Work Order #...: LXNJ91AD    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/14/10  
 Prep Batch #...: 0099309    Analysis Time...: 22:40  
 Dilution Factor: 1  
 % Moisture.....: 17    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	750	ug/kg
2,4-diamino-6-nitrotoluene	ND	120	ug/kg
2,6-diamino-4-nitrotoluene	ND	120	ug/kg
3,5-Dinitroaniline	ND	60	ug/kg
Tris (o-cresyl) Phosphate	ND	60	ug/kg
TATB	ND	480	ug/kg
2-Amino-4,6-dinitrotoluene	ND	60	ug/kg
4-Amino-2,6-dinitrotoluene	ND	60	ug/kg
1,3-Dinitrobenzene	ND	60	ug/kg
2,4-Dinitrotoluene	ND	60	ug/kg
2,6-Dinitrotoluene	ND	60	ug/kg
HMX	ND	120	ug/kg
Nitrobenzene	ND	120	ug/kg
2-Nitrotoluene	ND	300	ug/kg
3-Nitrotoluene	ND	480	ug/kg
4-Nitrotoluene	ND	480	ug/kg
RDX	ND	120	ug/kg
Tetryl	ND	60	ug/kg
1,3,5-Trinitrobenzene	ND	60	ug/kg
2,4,6-Trinitrotoluene	ND	60	ug/kg
PETN	ND	750	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	118	(59 - 113)

**NOTE (S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 00:40  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	740	ug/kg
2,4-diamino-6-nitrotoluene	ND	120	ug/kg
2,6-diamino-4-nitrotoluene	ND	120	ug/kg
3,5-Dinitroaniline	ND	59	ug/kg
Tris (o-cresyl) Phosphate	ND	59	ug/kg
TATB	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene	ND	59	ug/kg
4-Amino-2,6-dinitrotoluene	ND	59	ug/kg
1,3-Dinitrobenzene	ND	59	ug/kg
2,4-Dinitrotoluene	ND	59	ug/kg
2,6-Dinitrotoluene	ND	59	ug/kg
HMX	ND	120	ug/kg
Nitrobenzene	ND	120	ug/kg
2-Nitrotoluene	ND	300	ug/kg
3-Nitrotoluene	ND	470	ug/kg
4-Nitrotoluene	ND	470	ug/kg
RDX	ND	120	ug/kg
Tetryl	ND	59	ug/kg
1,3,5-Trinitrobenzene	ND	59	ug/kg
2,4,6-Trinitrotoluene	ND	59	ug/kg
PETN	ND	740	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	111	(59 - 113)

**NOTE (S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-003    Work Order #....: LXNKE1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 01:21  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	730	ug/kg
2,4-diamino-6-nitrotoluene	ND	120	ug/kg
2,6-diamino-4-nitrotoluene	ND	120	ug/kg
3,5-Dinitroaniline	ND	58	ug/kg
Tris (o-cresyl) Phosphate	ND	58	ug/kg
TATB	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene	ND	58	ug/kg
4-Amino-2,6-dinitrotoluene	ND	58	ug/kg
1,3-Dinitrobenzene	ND	58	ug/kg
2,4-Dinitrotoluene	ND	58	ug/kg
2,6-Dinitrotoluene	ND	58	ug/kg
HMX	ND	120	ug/kg
Nitrobenzene	ND	120	ug/kg
2-Nitrotoluene	ND	290	ug/kg
3-Nitrotoluene	ND	470	ug/kg
4-Nitrotoluene	ND	470	ug/kg
RDX	ND	120	ug/kg
Tetryl	ND	58	ug/kg
1,3,5-Trinitrobenzene	ND	58	ug/kg
2,4,6-Trinitrotoluene	ND	58	ug/kg
PETN	ND	730	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	102	(59 - 113)

**NOTE (S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-004    Work Order #....: LXNKG1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 02:01  
 Dilution Factor: 1  
 % Moisture.....: 15    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	730	ug/kg
2,4-diamino-6-nitrotoluene	ND	120	ug/kg
2,6-diamino-4-nitrotoluene	ND	120	ug/kg
3,5-Dinitroaniline	ND	59	ug/kg
Tris (o-cresyl) Phosphate	ND	59	ug/kg
TATB	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene	ND	59	ug/kg
4-Amino-2,6-dinitrotoluene	ND	59	ug/kg
1,3-Dinitrobenzene	ND	59	ug/kg
2,4-Dinitrotoluene	ND	59	ug/kg
2,6-Dinitrotoluene	ND	59	ug/kg
HMX	ND	120	ug/kg
Nitrobenzene	ND	120	ug/kg
2-Nitrotoluene	ND	290	ug/kg
3-Nitrotoluene	ND	470	ug/kg
4-Nitrotoluene	ND	470	ug/kg
RDX	ND	120	ug/kg
Tetryl	ND	59	ug/kg
1,3,5-Trinitrobenzene	ND	59	ug/kg
2,4,6-Trinitrotoluene	ND	59	ug/kg
PETN	ND	730	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	104	(59 - 113)

## NOTE(S) :

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## HPLC - Mass. Spec.

Lot-Sample #...: F0D080489-005    Work Order #...: LXNKH1AD    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #...: 0099309    Analysis Time...: 02:41  
 Dilution Factor: 1  
 % Moisture.....: 6.2    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	670	ug/kg
2,4-diamino-6-nitrotoluene	ND	110	ug/kg
2,6-diamino-4-nitrotoluene	ND	110	ug/kg
3,5-Dinitroaniline	ND	53	ug/kg
Tris (o-cresyl) Phosphate	ND	53	ug/kg
TATB	ND	430	ug/kg
2-Amino-4,6-dinitrotoluene	ND	53	ug/kg
4-Amino-2,6-dinitrotoluene	ND	53	ug/kg
1,3-Dinitrobenzene	ND	53	ug/kg
2,4-Dinitrotoluene	ND	53	ug/kg
2,6-Dinitrotoluene	ND	53	ug/kg
HMX	ND	110	ug/kg
Nitrobenzene	ND	110	ug/kg
2-Nitrotoluene	ND	270	ug/kg
3-Nitrotoluene	ND	430	ug/kg
4-Nitrotoluene	ND	430	ug/kg
RDX	ND	110	ug/kg
Tetryl	ND	53	ug/kg
1,3,5-Trinitrobenzene	ND	53	ug/kg
2,4,6-Trinitrotoluene	ND	53	ug/kg
PETN	ND	670	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	110	(59 - 113)

## NOTE(S) :

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-006    Work Order #....: LXNKJ1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 03:21  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	730	ug/kg
2,4-diamino-6-nitrotoluene	ND	120	ug/kg
2,6-diamino-4-nitrotoluene	ND	120	ug/kg
3,5-Dinitroaniline	ND	58	ug/kg
Tris (o-cresyl) Phosphate	ND	58	ug/kg
TATB	ND	470	ug/kg
2-Amino-4,6-dinitrotoluene	ND	58	ug/kg
4-Amino-2,6-dinitrotoluene	ND	58	ug/kg
1,3-Dinitrobenzene	ND	58	ug/kg
2,4-Dinitrotoluene	ND	58	ug/kg
2,6-Dinitrotoluene	ND	58	ug/kg
HMX	ND	120	ug/kg
Nitrobenzene	ND	120	ug/kg
2-Nitrotoluene	ND	290	ug/kg
3-Nitrotoluene	ND	470	ug/kg
4-Nitrotoluene	ND	470	ug/kg
RDX	ND	120	ug/kg
Tetryl	ND	58	ug/kg
1,3,5-Trinitrobenzene	ND	58	ug/kg
2,4,6-Trinitrotoluene	ND	58	ug/kg
PETN	ND	730	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	107	(59 - 113)

**NOTE(S) :**

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## HPLC - Mass. Spec.

Lot-Sample #....: F0D080489-007    Work Order #....: LXNKL1AD    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/09/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0099309    Analysis Time...: 04:41  
 Dilution Factor: 1  
 % Moisture.....: 3.3    Method.....: STL SW846 8321

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	650	ug/kg
2,4-diamino-6-nitrotoluene	ND	100	ug/kg
2,6-diamino-4-nitrotoluene	ND	100	ug/kg
3,5-Dinitroaniline	ND	52	ug/kg
Tris (o-cresyl) Phosphate	ND	52	ug/kg
TATB	ND	410	ug/kg
2-Amino-4,6-dinitrotoluene	ND	52	ug/kg
4-Amino-2,6-dinitrotoluene	ND	52	ug/kg
1,3-Dinitrobenzene	ND	52	ug/kg
2,4-Dinitrotoluene	ND	52	ug/kg
2,6-Dinitrotoluene	ND	52	ug/kg
HMX	ND	100	ug/kg
Nitrobenzene	ND	100	ug/kg
2-Nitrotoluene	ND	260	ug/kg
3-Nitrotoluene	ND	410	ug/kg
4-Nitrotoluene	ND	410	ug/kg
RDX	ND	100	ug/kg
Tetryl	ND	52	ug/kg
1,3,5-Trinitrobenzene	ND	52	ug/kg
2,4,6-Trinitrotoluene	ND	52	ug/kg
PETN	ND	650	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	103	(59 - 113)

## NOTE(S) :

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

## METHOD BLANK REPORT

## HPLC - Mass. Spec.

Client Lot #...: F0D080489  
 MB Lot-Sample #: F0D090000-309

Work Order #...: LXQ9M1AA

Matrix.....: SOLID

Analysis Date...: 04/14/10  
 Dilution Factor: 1

Prep Date.....: 04/09/10

Analysis Time...: 21:20

Prep Batch #...: 0099309

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitroglycerin	ND	620	ug/kg	STL SW846 8321
2,4-diamino-6-nitrotoluen	ND	100	ug/kg	STL SW846 8321
2,6-diamino-4-nitrotoluen	ND	100	ug/kg	STL SW846 8321
3,5-Dinitroaniline	ND	50	ug/kg	STL SW846 8321
Tris (o-cresyl) Phosphate	ND	50	ug/kg	STL SW846 8321
TATB	ND	400	ug/kg	STL SW846 8321
2-Amino-4,6-dinitrotoluene	ND	50	ug/kg	STL SW846 8321
4-Amino-2,6-dinitrotoluene	ND	50	ug/kg	STL SW846 8321
1,3-Dinitrobenzene	ND	50	ug/kg	STL SW846 8321
2,4-Dinitrotoluene	ND	50	ug/kg	STL SW846 8321
2,6-Dinitrotoluene	ND	50	ug/kg	STL SW846 8321
HMX	ND	100	ug/kg	STL SW846 8321
Nitrobenzene	ND	100	ug/kg	STL SW846 8321
2-Nitrotoluene	ND	250	ug/kg	STL SW846 8321
3-Nitrotoluene	ND	400	ug/kg	STL SW846 8321
4-Nitrotoluene	ND	400	ug/kg	STL SW846 8321
RDX	ND	100	ug/kg	STL SW846 8321
Tetryl	ND	50	ug/kg	STL SW846 8321
1,3,5-Trinitrobenzene	ND	50	ug/kg	STL SW846 8321
2,4,6-Trinitrotoluene	ND	50	ug/kg	STL SW846 8321
PETN	ND	620	ug/kg	STL SW846 8321

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	120	(59 - 113)

## NOTE(S):

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## HPLC - Mass. Spec.

Client Lot #....: F0D080489      Work Order #....: LXQ9M1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: F0D090000-309  
 Prep Date.....: 04/09/10      Analysis Date...: 04/14/10  
 Prep Batch #....: 0099309      Analysis Time...: 22:00  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TATB	64	(20 - 150)	STL SW846 8321
Tris (o-cresyl) Phosphate	80	(36 - 143)	STL SW846 8321
2,4-diamino-6-nitrotoluen	82	(42 - 134)	STL SW846 8321
2,6-diamino-4-nitrotoluen	85	(36 - 134)	STL SW846 8321
3,5-Dinitroaniline	102	(68 - 121)	STL SW846 8321
Nitroglycerin	93	(48 - 118)	STL SW846 8321
2-Amino-4,6-dinitrotoluene	128 a	(66 - 113)	STL SW846 8321
4-Amino-2,6-dinitrotoluene	127 a	(66 - 105)	STL SW846 8321
1,3-Dinitrobenzene	89	(71 - 105)	STL SW846 8321
2,4-Dinitrotoluene	86	(58 - 115)	STL SW846 8321
2,6-Dinitrotoluene	101	(58 - 115)	STL SW846 8321
HMX	103	(54 - 121)	STL SW846 8321
Nitrobenzene	109	(47 - 121)	STL SW846 8321
2-Nitrotoluene	123 a	(55 - 119)	STL SW846 8321
3-Nitrotoluene	111	(44 - 111)	STL SW846 8321
4-Nitrotoluene	118 a	(47 - 116)	STL SW846 8321
RDX	81	(61 - 103)	STL SW846 8321
Tetryl	90	(20 - 150)	STL SW846 8321
1,3,5-Trinitrobenzene	78	(61 - 118)	STL SW846 8321
2,4,6-Trinitrotoluene	153 a	(69 - 127)	STL SW846 8321
PETN	113	(20 - 150)	STL SW846 8321

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dinitrobenzene	114	(56 - 123)

**NOTE (S) :**

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## HPLC - Mass. Spec.

Client Lot #...: F0D080489      Work Order #...: LXNJ91AG-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D080489-001      LXNJ91AH-MSD  
 Date Sampled...: 04/06/10      Date Received...: 04/08/10  
 Prep Date.....: 04/09/10      Analysis Date...: 04/14/10  
 Prep Batch #...: 0099309      Analysis Time...: 23:20  
 Dilution Factor: 1      % Moisture.....: 17

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TATB	106	(10 - 150)			STL SW846 8321
	62 p	(10 - 150)	53	(0-30)	STL SW846 8321
Tris (o-cresyl) Phosphate	78	(25 - 150)			STL SW846 8321
	76	(25 - 150)	2.4	(0-30)	STL SW846 8321
2,4-diamino-6-nitrotoluen	74	(40 - 113)			STL SW846 8321
	69	(40 - 113)	6.2	(0-30)	STL SW846 8321
2,6-diamino-4-nitrotoluen	77	(22 - 135)			STL SW846 8321
	73	(22 - 135)	5.1	(0-30)	STL SW846 8321
3,5-Dinitroaniline	84	(61 - 126)			STL SW846 8321
	79	(61 - 126)	6.1	(0-30)	STL SW846 8321
Nitroglycerin	72	(54 - 109)			STL SW846 8321
	74	(54 - 109)	2.9	(0-30)	STL SW846 8321
2-Amino-4,6-dinitrotoluene	109	(22 - 135)			STL SW846 8321
	97	(22 - 135)	12	(0-30)	STL SW846 8321
4-Amino-2,6-dinitrotoluene	128 a	(62 - 111)			STL SW846 8321
	103	(62 - 111)	22	(0-30)	STL SW846 8321
1,3-Dinitrobenzene	98	(70 - 102)			STL SW846 8321
	95	(70 - 102)	2.5	(0-30)	STL SW846 8321
2,4-Dinitrotoluene	80	(58 - 114)			STL SW846 8321
	72	(58 - 114)	10	(0-30)	STL SW846 8321
2,6-Dinitrotoluene	108 a	(69 - 103)			STL SW846 8321
	99	(69 - 103)	8.7	(0-30)	STL SW846 8321
HMX	91	(56 - 116)			STL SW846 8321
	93	(56 - 116)	2.4	(0-30)	STL SW846 8321
Nitrobenzene	98	(46 - 117)			STL SW846 8321
	83	(46 - 117)	17	(0-30)	STL SW846 8321
2-Nitrotoluene	157 a	(57 - 113)			STL SW846 8321
	123 a	(57 - 113)	24	(0-30)	STL SW846 8321
3-Nitrotoluene	140 a	(42 - 112)			STL SW846 8321
	104	(42 - 112)	30	(0-30)	STL SW846 8321
4-Nitrotoluene	162 a	(52 - 108)			STL SW846 8321
	104 p	(52 - 108)	44	(0-30)	STL SW846 8321
RDX	78	(59 - 98)			STL SW846 8321
	72	(59 - 98)	9.1	(0-30)	STL SW846 8321
Tetryl	60	(10 - 150)			STL SW846 8321
	66	(10 - 150)	8.1	(0-30)	STL SW846 8321

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**MATRIX SPIKE SAMPLE EVALUATION REPORT****HPLC - Mass. Spec.**

Client Lot #...: F0D080489      Work Order #...: LXNJ91AG-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D080489-001      LXNJ91AH-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
1,3,5-Trinitrobenzene	73	(54 - 116)			STL SW846 8321
	72	(54 - 116)	0.45	(0-30)	STL SW846 8321
2,4,6-Trinitrotoluene	124	(66 - 127)			STL SW846 8321
	124	(66 - 127)	0.66	(0-30)	STL SW846 8321
PETN	103	(26 - 144)			STL SW846 8321
	86	(26 - 144)	18	(0-30)	STL SW846 8321
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
1,2-Dinitrobenzene		109		(59 - 113)	
		108		(59 - 113)	

**NOTE(S) :**

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

a Spiked analyte recovery is outside stated control limits.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-001    Work Order #....: LXNJ91AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 19:13  
 Dilution Factor: 1  
 % Moisture.....: 17    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	400	ug/kg
Phenol	ND	400	ug/kg
Aniline	ND	400	ug/kg
bis(2-Chloroethyl)- ether	ND	400	ug/kg
2-Chlorophenol	ND	400	ug/kg
1,3-Dichlorobenzene	ND	400	ug/kg
1,4-Dichlorobenzene	ND	400	ug/kg
Benzyl alcohol	ND	400	ug/kg
1,2-Dichlorobenzene	ND	400	ug/kg
2-Methylphenol	ND	400	ug/kg
3-Methylphenol & 4-Methylphenol	ND	800	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	400	ug/kg
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg
Hexachloroethane	ND	400	ug/kg
Nitrobenzene	ND	400	ug/kg
Isophorone	ND	400	ug/kg
2-Nitrophenol	ND	400	ug/kg
2,4-Dimethylphenol	ND	400	ug/kg
bis(2-Chloroethoxy) methane	ND	400	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	400	ug/kg
1,2,4-Trichloro- benzene	ND	400	ug/kg
Naphthalene	ND	400	ug/kg
4-Chloroaniline	ND	400	ug/kg
Hexachlorobutadiene	ND	400	ug/kg
4-Chloro-3-methylphenol	ND	400	ug/kg
2-Methylnaphthalene	ND	400	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	400	ug/kg
2,4,5-Trichloro- phenol	ND	400	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-001 Work Order #....: LXNJ91AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	400	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	400	ug/kg
Acenaphthylene	ND	400	ug/kg
2,6-Dinitrotoluene	ND	400	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	400	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz (a, h) anthracene	ND	400	ug/kg
Dibenzofuran	ND	400	ug/kg
2,4-Dinitrotoluene	ND	400	ug/kg
Diethyl phthalate	ND	400	ug/kg
Fluorene	ND	400	ug/kg
4-Chlorophenyl phenyl ether	ND	400	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	400	ug/kg
Azobenzene	ND	400	ug/kg
Pyrene	ND	400	ug/kg
4-Bromophenyl phenyl ether	ND	400	ug/kg
Hexachlorobenzene	ND	400	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	400	ug/kg
Anthracene	ND	400	ug/kg
Di-n-butyl phthalate	ND	400	ug/kg
Fluoranthene	ND	400	ug/kg
Butyl benzyl phthalate	ND	400	ug/kg
Benzo (a) anthracene	ND	400	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	400	ug/kg
bis (2-Ethylhexyl) phthalate	ND	400	ug/kg
Di-n-octyl phthalate	ND	400	ug/kg
Benzo (b) fluoranthene	ND	400	ug/kg
Benzo (k) fluoranthene	ND	400	ug/kg
Benzo (a) pyrene	ND	400	ug/kg
Indeno (1,2,3-cd) pyrene	ND	400	ug/kg
Benzo (ghi) perylene	ND	400	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-001 Work Order #...: LXNJ91AE Matrix.....: SOLID

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	77	(45 - 89 )
Phenol-d5	74	(50 - 88 )
Nitrobenzene-d5	76	(48 - 90 )
2-Fluorobiphenyl	74	(52 - 94 )
2,4,6-Tribromophenol	82	(46 - 106)
Terphenyl-d14	96	(34 - 107)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 19:38  
 Dilution Factor: 1  
 % Moisture.....: 16    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	ND	390	ug/kg
bis(2-Chloroethyl)- ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	780	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

(Continued on next page)

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-002 Work Order #...: LXNKC1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RK12-10-15443

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-002 Work Order #....: LXNKClAE Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	78	(45 - 89 )
Phenol-d5	73	(50 - 88 )
Nitrobenzene-d5	72	(48 - 90 )
2-Fluorobiphenyl	70	(52 - 94 )
2,4,6-Tribromophenol	79	(46 - 106)
Terphenyl-d14	88	(34 - 107)

**NOTE(S) :**

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Results and reporting limits have been adjusted for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-003    Work Order #....: LKNKE1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:04  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	ND	390	ug/kg
bis(2-Chloroethyl) - ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	770	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-003 Work Order #...: LXNKELAE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-003 Work Order #....: LXNKE1AE Matrix.....: SOLID

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	78	(45 - 89 )
Phenol-d5	78	(50 - 88 )
Nitrobenzene-d5	74	(48 - 90 )
2-Fluorobiphenyl	72	(52 - 94 )
2,4,6-Tribromophenol	86	(46 - 106)
Terphenyl-d14	76	(34 - 107)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-004    Work Order #....: LXNKG1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:29  
 Dilution Factor: 1  
 % Moisture.....: 15    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
N-Nitrosodimethylamine	ND	390	ug/kg
Phenol	ND	390	ug/kg
Aniline	ND	390	ug/kg
bis(2-Chloroethyl)- ether	ND	390	ug/kg
2-Chlorophenol	ND	390	ug/kg
1,3-Dichlorobenzene	ND	390	ug/kg
1,4-Dichlorobenzene	ND	390	ug/kg
Benzyl alcohol	ND	390	ug/kg
1,2-Dichlorobenzene	ND	390	ug/kg
2-Methylphenol	ND	390	ug/kg
3-Methylphenol & 4-Methylphenol	ND	780	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	390	ug/kg
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg
Hexachloroethane	ND	390	ug/kg
Nitrobenzene	ND	390	ug/kg
Isophorone	ND	390	ug/kg
2-Nitrophenol	ND	390	ug/kg
2,4-Dimethylphenol	ND	390	ug/kg
bis(2-Chloroethoxy) methane	ND	390	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	390	ug/kg
1,2,4-Trichloro- benzene	ND	390	ug/kg
Naphthalene	ND	390	ug/kg
4-Chloroaniline	ND	390	ug/kg
Hexachlorobutadiene	ND	390	ug/kg
4-Chloro-3-methylphenol	ND	390	ug/kg
2-Methylnaphthalene	ND	390	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	390	ug/kg
2,4,5-Trichloro- phenol	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-004 Work Order #....: LXNKG1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	390	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	390	ug/kg
Acenaphthylene	ND	390	ug/kg
2,6-Dinitrotoluene	ND	390	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	390	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	390	ug/kg
Dibenzofuran	ND	390	ug/kg
2,4-Dinitrotoluene	ND	390	ug/kg
Diethyl phthalate	ND	390	ug/kg
Fluorene	ND	390	ug/kg
4-Chlorophenyl phenyl ether	ND	390	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	390	ug/kg
Azobenzene	ND	390	ug/kg
Pyrene	ND	390	ug/kg
4-Bromophenyl phenyl ether	ND	390	ug/kg
Hexachlorobenzene	ND	390	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	390	ug/kg
Anthracene	ND	390	ug/kg
Di-n-butyl phthalate	ND	390	ug/kg
Fluoranthene	ND	390	ug/kg
Butyl benzyl phthalate	ND	390	ug/kg
Benzo(a)anthracene	ND	390	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	390	ug/kg
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg
Di-n-octyl phthalate	ND	390	ug/kg
Benzo(b)fluoranthene	ND	390	ug/kg
Benzo(k)fluoranthene	ND	390	ug/kg
Benzo(a)pyrene	ND	390	ug/kg
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg
Benzo(ghi)perylene	ND	390	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-004 Work Order #...: LXNKG1AE Matrix.....: SOLID

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	75	(45 - 89 )
Phenol-d5	71	(50 - 88 )
Nitrobenzene-d5	71	(48 - 90 )
2-Fluorobiphenyl	69	(52 - 94 )
2,4,6-Tribromophenol	85	(46 - 106)
Terphenyl-d14	92	(34 - 107)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-005    Work Order #....: LXNKH1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 20:54  
 Dilution Factor: 1  
 % Moisture.....: 6.2    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	350	ug/kg
Phenol	ND	350	ug/kg
Aniline	ND	350	ug/kg
bis(2-Chloroethyl) - ether	ND	350	ug/kg
2-Chlorophenol	ND	350	ug/kg
1,3-Dichlorobenzene	ND	350	ug/kg
1,4-Dichlorobenzene	ND	350	ug/kg
Benzyl alcohol	ND	350	ug/kg
1,2-Dichlorobenzene	ND	350	ug/kg
2-Methylphenol	ND	350	ug/kg
3-Methylphenol & 4-Methylphenol	ND	700	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	350	ug/kg
N-Nitrosodi-n-propyl- amine	ND	350	ug/kg
Hexachloroethane	ND	350	ug/kg
Nitrobenzene	ND	350	ug/kg
Isophorone	ND	350	ug/kg
2-Nitrophenol	ND	350	ug/kg
2,4-Dimethylphenol	ND	350	ug/kg
bis(2-Chloroethoxy) methane	ND	350	ug/kg
Benzoic acid	ND	1700	ug/kg
2,4-Dichlorophenol	ND	350	ug/kg
1,2,4-Trichloro- benzene	ND	350	ug/kg
Naphthalene	ND	350	ug/kg
4-Chloroaniline	ND	350	ug/kg
Hexachlorobutadiene	ND	350	ug/kg
4-Chloro-3-methylphenol	ND	350	ug/kg
2-Methylnaphthalene	ND	350	ug/kg
Hexachlorocyclopenta- diene	ND	1700	ug/kg
2,4,6-Trichloro- phenol	ND	350	ug/kg
2,4,5-Trichloro- phenol	ND	350	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-005 Work Order #....: LXNKH1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	350	ug/kg
2-Nitroaniline	ND	1700	ug/kg
Dimethyl phthalate	ND	350	ug/kg
Acenaphthylene	ND	350	ug/kg
2,6-Dinitrotoluene	ND	350	ug/kg
3-Nitroaniline	ND	1700	ug/kg
Acenaphthene	ND	350	ug/kg
2,4-Dinitrophenol	ND	1700	ug/kg
4-Nitrophenol	ND	1700	ug/kg
Dibenz(a,h)anthracene	ND	350	ug/kg
Dibenzofuran	ND	350	ug/kg
2,4-Dinitrotoluene	ND	350	ug/kg
Diethyl phthalate	ND	350	ug/kg
Fluorene	ND	350	ug/kg
4-Chlorophenyl phenyl ether	ND	350	ug/kg
4-Nitroaniline	ND	1700	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1700	ug/kg
N-Nitrosodiphenylamine	ND	350	ug/kg
Azobenzene	ND	350	ug/kg
Pyrene	ND	350	ug/kg
4-Bromophenyl phenyl ether	ND	350	ug/kg
Hexachlorobenzene	ND	350	ug/kg
Pentachlorophenol	ND	1700	ug/kg
Phenanthrene	ND	350	ug/kg
Anthracene	ND	350	ug/kg
Di-n-butyl phthalate	ND	350	ug/kg
Fluoranthene	ND	350	ug/kg
Butyl benzyl phthalate	ND	350	ug/kg
Benzo(a)anthracene	ND	350	ug/kg
3,3'-Dichlorobenzidine	ND	1700	ug/kg
Chrysene	ND	350	ug/kg
bis(2-Ethylhexyl) phthalate	ND	350	ug/kg
Di-n-octyl phthalate	ND	350	ug/kg
Benzo(b)fluoranthene	ND	350	ug/kg
Benzo(k)fluoranthene	ND	350	ug/kg
Benzo(a)pyrene	ND	350	ug/kg
Indeno(1,2,3-cd)pyrene	ND	350	ug/kg
Benzo(ghi)perylene	ND	350	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-005 Work Order #....: LXNKH1AE Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	71	(45 - 89 )
Phenol-d5	69	(50 - 88 )
Nitrobenzene-d5	66	(48 - 90 )
2-Fluorobiphenyl	65	(52 - 94 )
2,4,6-Tribromophenol	69	(46 - 106)
Terphenyl-d14	79	(34 - 107)

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-006    Work Order #....: LXNKJ1AE    Matrix.....: SOLID  
 Date Sampled....: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #....: 0100038    Analysis Time...: 21:20  
 Dilution Factor: 1  
 % Moisture.....: 14    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	380	ug/kg
Phenol	ND	380	ug/kg
Aniline	ND	380	ug/kg
bis(2-Chloroethyl)- ether	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
1,3-Dichlorobenzene	ND	380	ug/kg
1,4-Dichlorobenzene	ND	380	ug/kg
Benzyl alcohol	ND	380	ug/kg
1,2-Dichlorobenzene	ND	380	ug/kg
2-Methylphenol	ND	380	ug/kg
3-Methylphenol & 4-Methylphenol	ND	770	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	380	ug/kg
N-Nitrosodi-n-propyl- amine	ND	380	ug/kg
Hexachloroethane	ND	380	ug/kg
Nitrobenzene	ND	380	ug/kg
Isophorone	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
Benzoic acid	ND	1900	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
1,2,4-Trichloro- benzene	ND	380	ug/kg
Naphthalene	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Methylnaphthalene	ND	380	ug/kg
Hexachlorocyclopenta- diene	ND	1900	ug/kg
2,4,6-Trichloro- phenol	ND	380	ug/kg
2,4,5-Trichloro- phenol	ND	380	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-006 Work Order #....: LXNKJ1AE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	380	ug/kg
2-Nitroaniline	ND	1900	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Acenaphthylene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
3-Nitroaniline	ND	1900	ug/kg
Acenaphthene	ND	380	ug/kg
2,4-Dinitrophenol	ND	1900	ug/kg
4-Nitrophenol	ND	1900	ug/kg
Dibenz(a,h)anthracene	ND	380	ug/kg
Dibenzofuran	ND	380	ug/kg
2,4-Dinitrotoluene	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
Fluorene	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
4-Nitroaniline	ND	1900	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
Azobenzene	ND	380	ug/kg
Pyrene	ND	380	ug/kg
4-Bromophenyl phenyl ether	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Pentachlorophenol	ND	1900	ug/kg
Phenanthrene	ND	380	ug/kg
Anthracene	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg
Fluoranthene	ND	380	ug/kg
Butyl benzyl phthalate	ND	380	ug/kg
Benzo(a)anthracene	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1900	ug/kg
Chrysene	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Benzo(b)fluoranthene	ND	380	ug/kg
Benzo(k)fluoranthene	ND	380	ug/kg
Benzo(a)pyrene	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg
Benzo(ghi)perylene	ND	380	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-006 Work Order #...: LXNKJ1AE Matrix.....: SOLID

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	75	(45 - 89 )
Phenol-d5	75	(50 - 88 )
Nitrobenzene-d5	73	(48 - 90 )
2-Fluorobiphenyl	70	(52 - 94 )
2,4,6-Tribromophenol	86	(46 - 106)
Terphenyl-d14	84	(34 - 107)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-007    Work Order #....: LXNKL1AE    Matrix.....: SOLID  
 Date Sampled...: 04/06/10    Date Received...: 04/08/10  
 Prep Date.....: 04/10/10    Analysis Date...: 04/15/10  
 Prep Batch #...: 0100038    Analysis Time...: 21:45  
 Dilution Factor: 1  
 % Moisture.....: 3.3    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
N-Nitrosodimethylamine	ND	340	ug/kg
Phenol	ND	340	ug/kg
Aniline	ND	340	ug/kg
bis(2-Chloroethyl) - ether	ND	340	ug/kg
2-Chlorophenol	ND	340	ug/kg
1,3-Dichlorobenzene	ND	340	ug/kg
1,4-Dichlorobenzene	ND	340	ug/kg
Benzyl alcohol	ND	340	ug/kg
1,2-Dichlorobenzene	ND	340	ug/kg
2-Methylphenol	ND	340	ug/kg
3-Methylphenol & 4-Methylphenol	ND	680	ug/kg
2,2'-oxybis (1-Chloropropane)	ND	340	ug/kg
N-Nitrosodi-n-propyl- amine	ND	340	ug/kg
Hexachloroethane	ND	340	ug/kg
Nitrobenzene	ND	340	ug/kg
Isophorone	ND	340	ug/kg
2-Nitrophenol	ND	340	ug/kg
2,4-Dimethylphenol	ND	340	ug/kg
bis(2-Chloroethoxy) methane	ND	340	ug/kg
Benzoic acid	ND	1700	ug/kg
2,4-Dichlorophenol	ND	340	ug/kg
1,2,4-Trichloro- benzene	ND	340	ug/kg
Naphthalene	ND	340	ug/kg
4-Chloroaniline	ND	340	ug/kg
Hexachlorobutadiene	ND	340	ug/kg
4-Chloro-3-methylphenol	ND	340	ug/kg
2-Methylnaphthalene	ND	340	ug/kg
Hexachlorocyclopenta- diene	ND	1700	ug/kg
2,4,6-Trichloro- phenol	ND	340	ug/kg
2,4,5-Trichloro- phenol	ND	340	ug/kg

(Continued on next page)

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## GC/MS Semivolatiles

Lot-Sample #....: F0D080489-007 Work Order #....: LXNKLLAE Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Chloronaphthalene	ND	340	ug/kg
2-Nitroaniline	ND	1700	ug/kg
Dimethyl phthalate	ND	340	ug/kg
Acenaphthylene	ND	340	ug/kg
2,6-Dinitrotoluene	ND	340	ug/kg
3-Nitroaniline	ND	1700	ug/kg
Acenaphthene	ND	340	ug/kg
2,4-Dinitrophenol	ND	1700	ug/kg
4-Nitrophenol	ND	1700	ug/kg
Dibenz(a,h)anthracene	ND	340	ug/kg
Dibenzofuran	ND	340	ug/kg
2,4-Dinitrotoluene	ND	340	ug/kg
Diethyl phthalate	ND	340	ug/kg
Fluorene	ND	340	ug/kg
4-Chlorophenyl phenyl ether	ND	340	ug/kg
4-Nitroaniline	ND	1700	ug/kg
4,6-Dinitro- 2-methylphenol	ND	1700	ug/kg
N-Nitrosodiphenylamine	ND	340	ug/kg
Azobenzene	ND	340	ug/kg
Pyrene	ND	340	ug/kg
4-Bromophenyl phenyl ether	ND	340	ug/kg
Hexachlorobenzene	ND	340	ug/kg
Pentachlorophenol	ND	1700	ug/kg
Phenanthrene	ND	340	ug/kg
Anthracene	ND	340	ug/kg
Di-n-butyl phthalate	ND	340	ug/kg
Fluoranthene	ND	340	ug/kg
Butyl benzyl phthalate	ND	340	ug/kg
Benzo(a)anthracene	ND	340	ug/kg
3,3'-Dichlorobenzidine	ND	1700	ug/kg
Chrysene	ND	340	ug/kg
bis(2-Ethylhexyl) phthalate	ND	340	ug/kg
Di-n-octyl phthalate	ND	340	ug/kg
Benzo(b)fluoranthene	ND	340	ug/kg
Benzo(k)fluoranthene	ND	340	ug/kg
Benzo(a)pyrene	ND	340	ug/kg
Indeno(1,2,3-cd)pyrene	ND	340	ug/kg
Benzo(ghi)perylene	ND	340	ug/kg

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## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## GC/MS Semivolatiles

Lot-Sample #...: F0D080489-007 Work Order #...: LKNKL1AE Matrix.....: SOLID

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	79	(45 - 89 )
Phenol-d5	75	(50 - 88 )
Nitrobenzene-d5	75	(48 - 90 )
2-Fluorobiphenyl	72	(52 - 94 )
2,4,6-Tribromophenol	75	(46 - 106)
Terphenyl-d14	92	(34 - 107)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489  
 MB Lot-Sample #: F0D100000-038

Work Order #...: LXRW21AA

Matrix.....: SOLID

Analysis Date...: 04/15/10  
 Dilution Factor: 1

Prep Date.....: 04/10/10

Analysis Time...: 15:27

Prep Batch #...: 0100038

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Aniline	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)- ether	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	660	ug/kg	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
1,2,4-Trichloro- benzene	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta- diene	ND	1600	ug/kg	SW846 8270C
2,4,6-Trichloro- phenol	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro- phenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: F0D080489

Work Order #....: LXRW21AA

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Acenaphthene	ND	330	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
Dibenz (a, h) anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Azobenzene	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Benzo (a) anthracene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
bis (2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Benzo (b) fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo (k) fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo (a) pyrene	ND	330	ug/kg	SW846 8270C
Indeno (1,2,3-cd) pyrene	ND	330	ug/kg	SW846 8270C
Benzo (ghi) perylene	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	82	(45 - 89)
Phenol-d5	79	(50 - 88)

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489

Work Order #...: LXRW21AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitrobenzene-d5	77	(48 - 90)		
2-Fluorobiphenyl	75	(52 - 94)		
2,4,6-Tribromophenol	77	(46 - 106)		
Terphenyl-d14	76	(34 - 107)		

**NOTE(S):**

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXRW21AC      Matrix.....: SOLID  
 LCS Lot-Sample#: F0D100000-038  
 Prep Date.....: 04/10/10      Analysis Date...: 04/15/10  
 Prep Batch #...: 0100038      Analysis Time...: 15:52  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	76	(52 - 82)	SW846 8270C
bis(2-Chloroethyl)- ether	74	(45 - 96)	SW846 8270C
2-Chlorophenol	75	(53 - 84)	SW846 8270C
1,3-Dichlorobenzene	76	(51 - 85)	SW846 8270C
1,4-Dichlorobenzene	75	(51 - 85)	SW846 8270C
1,2-Dichlorobenzene	77	(52 - 85)	SW846 8270C
2-Methylphenol	76	(54 - 86)	SW846 8270C
3-Methylphenol & 4-Methylphenol	85	(59 - 98)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	81	(38 - 100)	SW846 8270C
N-Nitrosodi-n-propyl- amine	86	(57 - 96)	SW846 8270C
Hexachloroethane	78	(52 - 89)	SW846 8270C
Nitrobenzene	81	(52 - 88)	SW846 8270C
Isophorone	82	(57 - 93)	SW846 8270C
2-Nitrophenol	79	(53 - 88)	SW846 8270C
2,4-Dimethylphenol	80	(56 - 85)	SW846 8270C
bis(2-Chloroethoxy) methane	82	(55 - 90)	SW846 8270C
2,4-Dichlorophenol	78	(53 - 84)	SW846 8270C
1,2,4-Trichloro- benzene	86	(55 - 89)	SW846 8270C
Naphthalene	80	(53 - 88)	SW846 8270C
4-Chloroaniline	52	(43 - 76)	SW846 8270C
Hexachlorobutadiene	81	(54 - 91)	SW846 8270C
4-Chloro-3-methylphenol	79	(58 - 87)	SW846 8270C
2-Methylnaphthalene	75	(48 - 90)	SW846 8270C
Hexachlorocyclopenta- diene	83	(55 - 112)	SW846 8270C
2,4,6-Trichloro- phenol	79	(55 - 89)	SW846 8270C
2,4,5-Trichloro- phenol	77	(56 - 89)	SW846 8270C

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: F0D080489  
 LCS Lot-Sample#: F0D100000-038

Work Order #....: LXRW21AC

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Chloronaphthalene	84	(55 - 91)	SW846 8270C
2-Nitroaniline	83	(55 - 95)	SW846 8270C
Dimethyl phthalate	84	(57 - 92)	SW846 8270C
Acenaphthylene	87	(59 - 95)	SW846 8270C
2,6-Dinitrotoluene	84	(59 - 96)	SW846 8270C
3-Nitroaniline	73	(51 - 86)	SW846 8270C
Acenaphthene	84	(56 - 91)	SW846 8270C
2,4-Dinitrophenol	29	(10 - 71)	SW846 8270C
4-Nitrophenol	82	(55 - 92)	SW846 8270C
Dibenzofuran	80	(56 - 88)	SW846 8270C
Dibenz(a,h)anthracene	94	(58 - 107)	SW846 8270C
2,4-Dinitrotoluene	90	(58 - 97)	SW846 8270C
Diethyl phthalate	89	(60 - 96)	SW846 8270C
Fluorene	86	(60 - 93)	SW846 8270C
4-Chlorophenyl phenyl ether	87	(61 - 94)	SW846 8270C
4-Nitroaniline	76	(51 - 92)	SW846 8270C
4,6-Dinitro- 2-methylphenol	48	(20 - 93)	SW846 8270C
N-Nitrosodiphenylamine	111	(71 - 123)	SW846 8270C
Pyrene	94	(59 - 104)	SW846 8270C
4-Bromophenyl phenyl ether	92	(61 - 101)	SW846 8270C
Hexachlorobenzene	89	(60 - 99)	SW846 8270C
Pentachlorophenol	78	(39 - 88)	SW846 8270C
Phenanthrene	88	(58 - 95)	SW846 8270C
Anthracene	88	(59 - 97)	SW846 8270C
Di-n-butyl phthalate	90	(59 - 98)	SW846 8270C
Fluoranthene	92	(57 - 92)	SW846 8270C
Butyl benzyl phthalate	87	(60 - 101)	SW846 8270C
Benzo(a)anthracene	95	(60 - 98)	SW846 8270C
3,3'-Dichlorobenzidine	73	(52 - 94)	SW846 8270C
Chrysene	89	(59 - 102)	SW846 8270C
bis(2-Ethylhexyl) phthalate	90	(54 - 101)	SW846 8270C
Di-n-octyl phthalate	89	(59 - 109)	SW846 8270C
Benzo(b)fluoranthene	94	(55 - 108)	SW846 8270C

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489

Work Order #...: LXRW21AC

Matrix.....: SOLID

LCS Lot-Sample#: F0D100000-038

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzo(k) fluoranthene	93	(63 - 100)	SW846 8270C
Benzo(a)pyrene	91	(61 - 105)	SW846 8270C
Indeno(1,2,3-cd)pyrene	85	(60 - 108)	SW846 8270C
Benzo(ghi)perylene	98	(60 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(56 - 89)
Phenol-d5	78	(58 - 90)
Nitrobenzene-d5	80	(56 - 92)
2-Fluorobiphenyl	78	(58 - 95)
2,4,6-Tribromophenol	90	(56 - 105)
Terphenyl-d14	73	(44 - 108)

**NOTE(S) :**

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

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXL41E4-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D070439-002      LXL41E5-MSD  
 Date Sampled...: 04/01/10      Date Received...: 04/07/10  
 Prep Date.....: 04/10/10      Analysis Date...: 04/15/10  
 Prep Batch #...: 0100038      Analysis Time...: 18:23  
 Dilution Factor: 1      % Moisture.....: 9.4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	70	(42 - 83)			SW846 8270C
	75	(42 - 83)	6.5	(0-30)	SW846 8270C
bis(2-Chloroethyl)- ether	63	(40 - 84)			SW846 8270C
	69	(40 - 84)	9.7	(0-30)	SW846 8270C
2-Chlorophenol	68	(42 - 83)			SW846 8270C
	72	(42 - 83)	5.9	(0-30)	SW846 8270C
1,3-Dichlorobenzene	55	(37 - 83)			SW846 8270C
	61	(37 - 83)	11	(0-30)	SW846 8270C
1,4-Dichlorobenzene	55	(38 - 82)			SW846 8270C
	61	(38 - 82)	11	(0-30)	SW846 8270C
1,2-Dichlorobenzene	57	(39 - 84)			SW846 8270C
	63	(39 - 84)	9.1	(0-30)	SW846 8270C
2-Methylphenol	71	(44 - 85)			SW846 8270C
	75	(44 - 85)	5.3	(0-30)	SW846 8270C
3-Methylphenol & 4-Methylphenol	80	(52 - 95)			SW846 8270C
	84	(52 - 95)	4.4	(0-30)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	69	(35 - 92)			SW846 8270C
	76	(35 - 92)	9.2	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl- amine	78	(46 - 94)			SW846 8270C
	83	(46 - 94)	6.2	(0-30)	SW846 8270C
Hexachloroethane	58	(37 - 85)			SW846 8270C
	61	(37 - 85)	3.9	(0-30)	SW846 8270C
Nitrobenzene	67	(43 - 86)			SW846 8270C
	74	(43 - 86)	9.5	(0-30)	SW846 8270C
Isophorone	73	(47 - 93)			SW846 8270C
	81	(47 - 93)	9.9	(0-30)	SW846 8270C
2-Nitrophenol	67	(40 - 89)			SW846 8270C
	74	(40 - 89)	9.8	(0-30)	SW846 8270C
2,4-Dimethylphenol	71	(45 - 86)			SW846 8270C
	77	(45 - 86)	7.6	(0-30)	SW846 8270C

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXL41E4-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D070439-002      LXL41E5-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
bis(2-Chloroethoxy) methane	73	(44 - 91)			SW846 8270C
	79	(44 - 91)	8.2	(0-30)	SW846 8270C
2,4-Dichlorophenol	71	(44 - 85)			SW846 8270C
	77	(44 - 85)	7.8	(0-30)	SW846 8270C
1,2,4-Trichloro- benzene	69	(44 - 87)			SW846 8270C
	75	(44 - 87)	9.3	(0-30)	SW846 8270C
Naphthalene	67	(44 - 87)			SW846 8270C
	72	(44 - 87)	7.6	(0-30)	SW846 8270C
4-Chloroaniline	38	(24 - 82)			SW846 8270C
	40	(24 - 82)	5.6	(0-30)	SW846 8270C
Hexachlorobutadiene	62	(41 - 88)			SW846 8270C
	70	(41 - 88)	11	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	72	(46 - 91)			SW846 8270C
	77	(46 - 91)	6.1	(0-30)	SW846 8270C
2-Methylnaphthalene	65	(40 - 83)			SW846 8270C
	72	(40 - 83)	9.8	(0-30)	SW846 8270C
Hexachlorocyclopenta- diene	41	(20 - 125)			SW846 8270C
	36	(20 - 125)	13	(0-30)	SW846 8270C
2,4,6-Trichloro- phenol	72	(47 - 90)			SW846 8270C
	73	(47 - 90)	0.74	(0-30)	SW846 8270C
2,4,5-Trichloro- phenol	67	(46 - 93)			SW846 8270C
	69	(46 - 93)	2.6	(0-30)	SW846 8270C
2-Chloronaphthalene	73	(47 - 90)			SW846 8270C
	77	(47 - 90)	5.4	(0-30)	SW846 8270C
2-Nitroaniline	76	(50 - 95)			SW846 8270C
	80	(50 - 95)	6.0	(0-30)	SW846 8270C
Dimethyl phthalate	78	(49 - 95)			SW846 8270C
	81	(49 - 95)	4.0	(0-30)	SW846 8270C
Acenaphthylene	76	(50 - 95)			SW846 8270C
	80	(50 - 95)	4.8	(0-30)	SW846 8270C
2,6-Dinitrotoluene	75	(49 - 98)			SW846 8270C
	80	(49 - 98)	6.1	(0-30)	SW846 8270C

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXL41E4-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D070439-002      LXL41E5-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
3-Nitroaniline	59	(32 - 95)			SW846 8270C
	66	(32 - 95)	11	(0-30)	SW846 8270C
Acenaphthene	73	(48 - 90)			SW846 8270C
	76	(48 - 90)	4.1	(0-30)	SW846 8270C
2,4-Dinitrophenol	51	(10 - 95)			SW846 8270C
	51	(10 - 95)	0.05	(0-30)	SW846 8270C
4-Nitrophenol	77	(46 - 98)			SW846 8270C
	77	(46 - 98)	0.23	(0-30)	SW846 8270C
Dibenzofuran	70	(48 - 89)			SW846 8270C
	73	(48 - 89)	4.5	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	62	(21 - 120)			SW846 8270C
	68	(21 - 120)	10	(0-30)	SW846 8270C
2,4-Dinitrotoluene	77	(46 - 100)			SW846 8270C
	81	(46 - 100)	5.6	(0-30)	SW846 8270C
Diethyl phthalate	81	(51 - 99)			SW846 8270C
	89	(51 - 99)	9.3	(0-30)	SW846 8270C
Fluorene	76	(50 - 95)			SW846 8270C
	84	(50 - 95)	11	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	76	(50 - 97)			SW846 8270C
	85	(50 - 97)	11	(0-30)	SW846 8270C
4-Nitroaniline	54	(37 - 97)			SW846 8270C
	66	(37 - 97)	20	(0-30)	SW846 8270C
4,6-Dinitro- 2-methylphenol	56	(10 - 113)			SW846 8270C
	57	(10 - 113)	0.58	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	92	(59 - 121)			SW846 8270C
	97	(59 - 121)	4.8	(0-30)	SW846 8270C
Pyrene	73	(37 - 111)			SW846 8270C
	85	(37 - 111)	13	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	77	(50 - 102)			SW846 8270C
	80	(50 - 102)	3.2	(0-30)	SW846 8270C
Hexachlorobenzene	68	(39 - 107)			SW846 8270C
	70	(39 - 107)	3.5	(0-30)	SW846 8270C
Pentachlorophenol	54	(22 - 87)			SW846 8270C
	56	(22 - 87)	4.4	(0-30)	SW846 8270C
Phenanthrene	72	(43 - 100)			SW846 8270C
	75	(43 - 100)	3.7	(0-30)	SW846 8270C

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXL41E4-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D070439-002      LXL41E5-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Anthracene	75	(50 - 97)			SW846 8270C
	77	(50 - 97)	3.2	(0-30)	SW846 8270C
Di-n-butyl phthalate	82	(51 - 99)			SW846 8270C
	85	(51 - 99)	4.0	(0-30)	SW846 8270C
Fluoranthene	67	(43 - 96)			SW846 8270C
	68	(43 - 96)	1.5	(0-30)	SW846 8270C
Butyl benzyl phthalate	86	(39 - 112)			SW846 8270C
	96	(39 - 112)	11	(0-30)	SW846 8270C
Benzo (a) anthracene	79	(46 - 100)			SW846 8270C
	80	(46 - 100)	1.0	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	20	(20 - 104)			SW846 8270C
	27	(20 - 104)	27	(0-30)	SW846 8270C
Chrysene	71	(42 - 106)			SW846 8270C
	71	(42 - 106)	0.03	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	87	(40 - 103)			SW846 8270C
	94	(40 - 103)	8.1	(0-30)	SW846 8270C
Di-n-octyl phthalate	153 a	(30 - 134)			SW846 8270C
	146 a	(30 - 134)	4.8	(0-30)	SW846 8270C
Benzo (b) fluoranthene	89	(44 - 107)			SW846 8270C
	84	(44 - 107)	5.1	(0-30)	SW846 8270C
Benzo (k) fluoranthene	92	(40 - 110)			SW846 8270C
	87	(40 - 110)	4.7	(0-30)	SW846 8270C
Benzo (a) pyrene	74	(40 - 109)			SW846 8270C
	74	(40 - 109)	0.07	(0-30)	SW846 8270C
Indeno (1,2,3-cd) pyrene	55	(18 - 121)			SW846 8270C
	61	(18 - 121)	9.8	(0-30)	SW846 8270C
Benzo (ghi) perylene	61	(10 - 127)			SW846 8270C
	67	(10 - 127)	9.5	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(45 - 89)
	79	(45 - 89)
Phenol-d5	76	(50 - 88)
	80	(50 - 88)
Nitrobenzene-d5	70	(48 - 90)
	75	(48 - 90)
2-Fluorobiphenyl	72	(52 - 94)
	75	(52 - 94)

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXLR41E4-MS      Matrix.....: SOLID  
MS Lot-Sample #: F0D070439-002      LXLR41E5-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	77	(46 - 106)
	81	(46 - 106)
Terphenyl-d14	83	(34 - 107)
	89	(34 - 107)

**NOTE(S) :**

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## GC Semivolatiles

Lot-Sample #....: F0D080489-001    Work Order #....: LKNJ91AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/12/10    Analysis Date...: 04/15/10  
Prep Batch #....: 0102197    Analysis Time...: 07:57  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	40	ug/kg
Aroclor 1221	ND	40	ug/kg
Aroclor 1232	ND	40	ug/kg
Aroclor 1242	ND	40	ug/kg
Aroclor 1248	ND	40	ug/kg
Aroclor 1254	ND	40	ug/kg
Aroclor 1260	11 J	40	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	115	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## GC Semivolatiles

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC1AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/12/10    Analysis Date...: 04/15/10  
Prep Batch #....: 0102197    Analysis Time...: 08:52  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## GC Semivolatiles

Lot-Sample #....: F0D080489-003    Work Order #....: LXNKE1AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/10/10    Analysis Date...: 04/16/10  
Prep Batch #....: 0100042    Analysis Time...: 21:28  
Dilution Factor: 1  
% Moisture.....: 14    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	15 J	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## GC Semivolatiles

Lot-Sample #....: F0D080489-004    Work Order #....: LXNKG1AF    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
Prep Date.....: 04/10/10    Analysis Date...: 04/16/10  
Prep Batch #....: 0100042    Analysis Time...: 21:47  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	39	ug/kg
Aroclor 1221	ND	39	ug/kg
Aroclor 1232	ND	39	ug/kg
Aroclor 1242	ND	39	ug/kg
Aroclor 1248	ND	39	ug/kg
Aroclor 1254	ND	39	ug/kg
Aroclor 1260	ND	39	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	125	(49 - 150)

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #...: F0D080489  
MB Lot-Sample #: F0D100000-042

Work Order #...: LXRW51AA

Matrix.....: SOLID

Analysis Date...: 04/16/10  
Dilution Factor: 1

Prep Date.....: 04/10/10

Analysis Time...: 19:53

Prep Batch #...: 0100042

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Decachlorobiphenyl	109	(49 - 150)

**NOTE(S) :**

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

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #...: F0D080489  
MB Lot-Sample #: F0D120000-197

Work Order #...: LXT9Q1AA

Matrix.....: SOLID

Analysis Date...: 04/15/10  
Dilution Factor: 1

Prep Date.....: 04/12/10

Analysis Time...: 07:01

Prep Batch #...: 0102197

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	147 *	(72 - 140)

## NOTE(S):

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

\* Surrogate recovery is outside stated control limits.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: F0D080489      Work Order #....: LXRW51AC      Matrix.....: SOLID  
LCS Lot-Sample#: F0D100000-042  
Prep Date.....: 04/10/10      Analysis Date...: 04/16/10  
Prep Batch #....: 0100042      Analysis Time...: 20:12  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
Aroclor 1016	100	(72 - 131)	SW846 8082
Aroclor 1260	105	(77 - 133)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Decachlorobiphenyl	132	(72 - 140)

**NOTE(S) :**

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

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXT9Q1AC      Matrix.....: SOLID  
LCS Lot-Sample#: F0D120000-197  
Prep Date.....: 04/12/10      Analysis Date...: 04/15/10  
Prep Batch #...: 0102197      Analysis Time...: 07:38  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Aroclor 1016	90	(72 - 131)	SW846 8082
Aroclor 1260	92	(77 - 133)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	102	(72 - 140)

**NOTE(S) :**

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

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: F0D080489      Work Order #....: LXL41E6-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D070439-002      LXL41E7-MSD  
 Date Sampled....: 04/01/10      Date Received...: 04/07/10  
 Prep Date.....: 04/10/10      Analysis Date...: 04/16/10  
 Prep Batch #....: 0100042      Analysis Time...: 20:50  
 Dilution Factor: 1      % Moisture.....: 9.4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	141	(41 - 150)			SW846 8082
	146	(41 - 150)	3.8	(0-30)	SW846 8082
Aroclor 1260	264 a	(47 - 150)			SW846 8082
	266 a	(47 - 150)	0.06	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(49 - 150)
	104	(49 - 150)

**NOTE (S) :**

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: F0D080489      Work Order #...: LXNJ91AJ-MS      Matrix.....: SOLID  
 MS Lot-Sample #: F0D080489-001      LXNJ91AK-MSD  
 Date Sampled...: 04/06/10      Date Received...: 04/08/10  
 Prep Date.....: 04/12/10      Analysis Date...: 04/15/10  
 Prep Batch #...: 0102197      Analysis Time...: 08:15  
 Dilution Factor: 1      % Moisture.....: 17

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	97	(41 - 150)			SW846 8082
	95	(41 - 150)	2.5	(0-30)	SW846 8082
Aroclor 1260	102	(47 - 150)			SW846 8082
	96	(47 - 150)	6.2	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	116	(49 - 150)
	131	(49 - 150)

**NOTE(S) :**

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.



## Los Alamos National Laboratory

Client Sample ID: RE12-10-15444

## General Chemistry

Lot-Sample #...: F0D080489-001    Work Order #...: LXNJ9    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	17.1	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15443

## General Chemistry

Lot-Sample #....: F0D080489-002    Work Order #....: LXNKC    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	15.5	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15442

## General Chemistry

Lot-Sample #...: F0D080489-003    Work Order #...: LXNKE    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	14.4	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15448

## General Chemistry

Lot-Sample #...: F0D080489-004    Work Order #...: LXNKG    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	14.8	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15446

## General Chemistry

Lot-Sample #...: F0D080489-005    Work Order #...: LXNKH    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 6.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	6.2	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15445

## General Chemistry

Lot-Sample #....: F0D080489-006    Work Order #....: LXNKJ    Matrix.....: SOLID  
Date Sampled....: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	14.0	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## Los Alamos National Laboratory

Client Sample ID: RE12-10-15447

## General Chemistry

Lot-Sample #...: F0D080489-007    Work Order #...: LXNKL    Matrix.....: SOLID  
Date Sampled...: 04/06/10    Date Received...: 04/08/10  
% Moisture.....: 3.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	3.3	0.10	%	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1		Analysis Time...: 00:00		

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: F0D080489

Work Order #...: LXNJ9-SMP  
LXNJ9-DUP

Matrix.....: SOLID

Date Sampled...: 04/06/10

Date Received...: 04/08/10

% Moisture.....: 17

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture					SD Lot-Sample #: F0D080489-001		
17.1	17.6	%	3.2	(0-30)	MCAWW 160.3 MOD	04/13-04/14/10	0102368
		Dilution Factor: 1			Analysis Time...: 00:00		



# **GC/MS SAMPLE AND QC DATA**

**Form I (s)**

**Semi-Volatile Organics**

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D070439 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXL41A8

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: INTRA-LAB QC

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl) ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
86-74-8	Carbazole	46	J
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
65794-96-9	3-Methylphenol & 4-Methylphe	730	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
621-64-7	N-Nitrosodi-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D070439 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXL41A8

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: INTRA-LAB QC

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl phthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
53-70-3	Dibenz(a,h)anthracene	360	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethyl phthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl phenyl ether	360	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine	360	U
<b>129-00-0</b>	<b>Pyrene</b>	<b>520</b>	
101-55-3	4-Bromophenyl phenyl ether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
<b>85-01-8</b>	<b>Phenanthrene</b>	<b>260</b>	<b>J</b>
120-12-7	Anthracene	360	U
84-74-2	Di-n-butyl phthalate	360	U
<b>206-44-0</b>	<b>Fluoranthene</b>	<b>880</b>	
85-68-7	Butyl benzyl phthalate	360	U
<b>56-55-3</b>	<b>Benzo(a)anthracene</b>	<b>130</b>	<b>J</b>
91-94-1	3,3'-Dichlorobenzidine	1800	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D070439 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXL41A8

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: INTRA-LAB QC

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
218-01-9	Chrysene	290	J
117-81-7	bis(2-Ethylhexyl) phthalate	360	U
117-84-0	Di-n-octyl phthalate	360	U
205-99-2	Benzo(b) fluoranthene	250	J
207-08-9	Benzo(k) fluoranthene	190	J
50-32-8	Benzo(a) pyrene	98	J
193-39-5	Indeno(1,2,3-cd) pyrene	360	U
191-24-2	Benzo(ghi) perylene	55	J

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	77	(45 - 89 )
Phenol-d5	77	(50 - 88 )
Nitrobenzene-d5	74	(48 - 90 )
2-Fluorobiphenyl	73	(52 - 94 )
2,4,6-Tribromophenol	77	(46 - 106 )
Terphenyl-d14	58	(34 - 107 )

FORM I

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080489

Matrix: (soil/water) SOLID Lab Sample ID:F0D080489 001

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNJ91AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:17

QC Batch: 0100038

Client Sample Id: RE12-10-15444

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
62-75-9	N-Nitrosodimethylamine	400	U
108-95-2	Phenol	400	U
62-53-3	Aniline	400	U
111-44-4	bis(2-Chloroethyl) ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
100-51-6	Benzyl alcohol	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
65794-96-9	3-Methylphenol & 4-Methylphe	800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
621-64-7	N-Nitrosodi-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
65-85-0	Benzoic acid	1900	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	1900	U

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080489

Matrix: (soil/water) SOLID Lab Sample ID:F0D080489 001

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNJ91AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:17

QC Batch: 0100038

Client Sample Id: RE12-10-15444

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl phthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
53-70-3	Dibenz(a,h)anthracene	400	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethyl phthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl phenyl ether	400	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	400	U
103-33-3	Azobenzene	400	U
129-00-0	Pyrene	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Di-n-butyl phthalate	400	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNJ91AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0100038

Client Sample Id: RE12-10-15444

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
206-44-0	Fluoranthene	400	U
85-68-7	Butyl benzyl phthalate	400	U
56-55-3	Benzo(a)anthracene	400	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl) phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
191-24-2	Benzo(ghi)perylene	400	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	77	(45 - 89 )
Phenol-d5	74	(50 - 88 )
Nitrobenzene-d5	76	(48 - 90 )
2-Fluorobiphenyl	74	(52 - 94 )
2,4,6-Tribromophenol	82	(46 - 106 )
Terphenyl-d14	96	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNJ91AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0100038

Client Sample Id: RE12-10-15444

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8248	1400	
	Unknown aldol condensate	4.3055	9100	
5131-66-8	2-Propanol, 1-butoxy-	4.9999	2200	
	Unknown	5.8437	170	
57-10-3	N-hexadecanoic acid	9.3902	300	
	Unknown organic acid	11.083	200	



## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080489

Matrix: (soil/water) SOLID Lab Sample ID:F0D080489 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKC1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:16

QC Batch: 0100038

Client Sample Id: RE12-10-15443

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	390	U
108-95-2	Phenol	390	U
62-53-3	Aniline	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
86-74-8	Carbazole	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
65794-96-9	3-Methylphenol & 4-Methylphe	780	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
621-64-7	N-Nitrosodi-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
65-85-0	Benzoic acid	1900	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc.      SDG Number:F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID:F0D080489 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKC1AE      Date Extracted:04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %:16

QC Batch: 0100038

Client Sample Id: RE12-10-15443

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg      Q
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
53-70-3	Dibenz(a,h)anthracene	390	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	390	U
103-33-3	Azobenzene	390	U
129-00-0	Pyrene	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc.

SDG Number:F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID:F0D080489 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKC1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:16

QC Batch: 0100038

Client Sample Id: RE12-10-15443

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	390	U
85-68-7	Butyl benzyl phthalate	390	U
56-55-3	Benzo(a)anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
191-24-2	Benzo(ghi)perylene	390	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	78	(45 - 89 )
Phenol-d5	73	(50 - 88 )
Nitrobenzene-d5	72	(48 - 90 )
2-Fluorobiphenyl	70	(52 - 94 )
2,4,6-Tribromophenol	79	(46 - 106 )
Terphenyl-d14	88	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKC1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 16

QC Batch: 0100038

Client Sample Id: RE12-10-15443

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8304	1400	
	Unknown aldol condensate	4.3058	8400	
	Unknown	7.5425	510	
77-53-2	Cedrol	8.365	490	
57-10-3	N-hexadecanoic acid	9.3958	210	
	Unknown	9.978	180	
	Unknown	11.088	330	

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc.

SDG Number:F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID:F0D080489 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKE1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	390	U
108-95-2	Phenol	390	U
62-53-3	Aniline	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
65794-96-9	3-Methylphenol & 4-Methylphe	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
621-64-7	N-Nitrosodi-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
65-85-0	Benzoic acid	1900	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKE1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
53-70-3	Dibenz(a,h)anthracene	390	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	390	U
103-33-3	Azobenzene	390	U
129-00-0	Pyrene	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-butyl phthalate	390	U

FORM I

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKE1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
206-44-0	Fluoranthene	390	U
85-68-7	Butyl benzyl phthalate	390	U
56-55-3	Benzo(a)anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
191-24-2	Benzo(ghi)perylene	390	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	78	(45 - 89 )
Phenol-d5	78	(50 - 88 )
Nitrobenzene-d5	74	(48 - 90 )
2-Fluorobiphenyl	72	(52 - 94 )
2,4,6-Tribromophenol	86	(46 - 106 )
Terphenyl-d14	76	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 003

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10  
Work Order: LKNKE1AE      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/15/10  
Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown aldol condensate	4.2958	7800	
17699-05-7	Bicyclo[3.1.1]hept-2-ene, 2,	7.3242	320	
	Unknown	7.3936	310	
3650-28-0	1,4-Methano-1h-indene, octah	7.431	580	
	Unknown	7.4951	1700	
	Unknown	7.5432	12000	
546-28-1	1H-3a,7-methanoazulene, octa	7.5966	410	
	Unknown	7.7408	1100	
	Unknown	7.7621	550	
	Unknown	8.4137	720	
473-15-4	2-Naphthalenemethanol, decah	8.5099	2300	
	Unknown	8.6968	2700	
	Unknown	8.793	1300	
	Unknown	8.9211	1200	
	Unknown	9.2683	1400	
	Unknown organic acid	9.3912	550	
	Unknown	9.9306	590	
	Unknown	9.9733	840	
	Unknown	10.176	740	
	Unknown	10.368	2600	
	Unknown	10.587	890	
	Unknown	11.265	360	
	Unknown	12.072	930	
	Unknown alkane	12.884	1000	
	Unknown	12.996	1500	
	Unknown alkane	14.31	2300	



Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 003

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKE1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15442

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	14.449	3100	
	Unknown alkane	15.907	2400	

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc.

SDG Number:F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID:F0D080489 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKG1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:15

QC Batch: 0100038

Client Sample Id: RE12-10-15448

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	390	U
108-95-2	Phenol	390	U
62-53-3	Aniline	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
65794-96-9	3-Methylphenol & 4-Methylphe	780	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
621-64-7	N-Nitrosodi-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
65-85-0	Benzoic acid	1900	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080489

Matrix: (soil/water) SOLID Lab Sample ID:F0D080489 004

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 04/08/10

Work Order: LXNKG1AE Date Extracted:04/10/10

Dilution factor: 1 Date Analyzed: 04/15/10

Moisture %:15

QC Batch: 0100038

Client Sample Id: RE12-10-15448

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
53-70-3	Dibenz(a,h)anthracene	390	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	390	U
103-33-3	Azobenzene	390	U
129-00-0	Pyrene	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-butyl phthalate	390	U

FORM I

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKG1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 15

QC Batch: 0100038

Client Sample Id: RE12-10-15448

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
206-44-0	Fluoranthene	390	U
85-68-7	Butyl benzyl phthalate	390	U
56-55-3	Benzo(a)anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
191-24-2	Benzo(ghi)perylene	390	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	75	(45 - 89 )
Phenol-d5	71	(50 - 88 )
Nitrobenzene-d5	71	(48 - 90 )
2-Fluorobiphenyl	69	(52 - 94 )
2,4,6-Tribromophenol	85	(46 - 106 )
Terphenyl-d14	92	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:TestAmerica Laboratories, Inc. SDG Number:F0D080489

Matrix: (soil/water) SOLID Lab Sample ID:F0D080489 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKG1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:15

QC Batch: 0100038

Client Sample Id: RE12-10-15448

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8368	400	
	Unknown aldol condensate	4.2961	8500	
	Unknown	7.3245	180	
	Unknown	7.426	330	
	Unknown	7.4901	1100	
	Unknown	7.5328	7100	
546-28-1	1H-3a,7-methanoazulene, octa	7.5916	200	
	Unknown	7.7358	750	
469-61-4	1H-3a,7-methanoazulene, 2,3,	7.7571	310	
	Unknown	8.3073	400	
	Unknown	8.3607	5800	
	Unknown	8.4141	240	
	Unknown	8.6918	910	
	Unknown	9.1885	220	
57-10-3	N-hexadecanoic acid	9.3862	470	
19407-28-4	Phenanthrene, 1,2,3,4,4a,9,1	9.9256	200	
	Unknown	10.117	160	
	Unknown	10.582	510	
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,	10.742	9400	
	Unknown	11.073	170	
	Unknown	11.282	190	
	Unknown	11.335	180	
6755-93-7	2 (1H)-phenanthrenone, 3,4,4a	11.602	260	
	Unknown	12.056	1100	
	Unknown	12.986	910	

FORM I - TIC

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc. SDG Number: F0D080489

Matrix: (soil/water) SOLID Lab Sample ID: F0D080489 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKH1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 6.2

QC Batch: 0100038

Client Sample Id: RE12-10-15446

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	350	U
108-95-2	Phenol	350	U
62-53-3	Aniline	350	U
111-44-4	bis(2-Chloroethyl) ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
65794-96-9	3-Methylphenol & 4-Methylphe	700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
621-64-7	N-Nitrosodi-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
65-85-0	Benzoic acid	1700	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	1700	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKH1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 6.2

QC Batch: 0100038

Client Sample Id: RE12-10-15446

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
53-70-3	Dibenz(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethyl phthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine	350	U
103-33-3	Azobenzene	350	U
129-00-0	Pyrene	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-butyl phthalate	350	U

FORM I

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKH1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 6.2

QC Batch: 0100038

Client Sample Id: RE12-10-15446

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
206-44-0	Fluoranthene	350	U
85-68-7	Butyl benzyl phthalate	350	U
56-55-3	Benzo(a)anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl) phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
191-24-2	Benzo(ghi)perylene	350	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	71	(45 - 89 )
Phenol-d5	69	(50 - 88 )
Nitrobenzene-d5	66	(48 - 90 )
2-Fluorobiphenyl	65	(52 - 94 )
2,4,6-Tribromophenol	69	(46 - 106 )
Terphenyl-d14	79	(34 - 107 )

FORM I



Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 005

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKH1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 6.2

QC Batch: 0100038

Client Sample Id: RE12-10-15446

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8353	250	
	Unknown aldol condensate	4.2946	8000	
5131-66-8	2-Propanol, 1-butoxy-	4.989	350	
57-10-3	N-hexadecanoic acid	9.3793	240	
	Unknown	9.9615	160	
	Unknown	11.067	210	

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc. SDG Number: F0D080489

Matrix: (soil/water) SOLID Lab Sample ID: F0D080489 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKJ1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15445

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	380	U
108-95-2	Phenol	380	U
62-53-3	Aniline	380	U
111-44-4	bis(2-Chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
65794-96-9	3-Methylphenol & 4-Methylphe	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
621-64-7	N-Nitrosodi-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
65-85-0	Benzoic acid	1900	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	1900	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKJ1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15445

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl phthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
53-70-3	Dibenz(a,h)anthracene	380	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethyl phthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl phenyl ether	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	380	U
103-33-3	Azobenzene	380	U
129-00-0	Pyrene	380	U
101-55-3	4-Bromophenyl phenyl ether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butyl phthalate	380	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 006

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKJ1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15445

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
206-44-0	Fluoranthene	380	U
85-68-7	Butyl benzyl phthalate	380	U
56-55-3	Benzo(a)anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl) phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
191-24-2	Benzo(ghi)perylene	380	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	75	(45 - 89 )
Phenol-d5	75	(50 - 88 )
Nitrobenzene-d5	73	(48 - 90 )
2-Fluorobiphenyl	70	(52 - 94 )
2,4,6-Tribromophenol	86	(46 - 106 )
Terphenyl-d14	84	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc. SDG Number: F0D080489

Matrix: (soil/water) SOLID Lab Sample ID: F0D080489 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKJ1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0100038

Client Sample Id: RE12-10-15445

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8314	530	
	Unknown aldol condensate	4.2961	9500	
26560-14-5	1,3,6,10-Dodecatetraene, 3,7	7.3244	240	
	Unknown	7.4259	320	
	Unknown	7.49	1300	
	Unknown	7.5328	7600	
	Unknown	7.5915	190	
	Unknown	7.7357	810	
	Unknown	7.7571	410	
	Unknown	8.414	350	
	Unknown	8.6437	220	
	Unknown	8.6918	1300	
	Unknown organic acid	9.3861	280	
	Unknown	9.9255	190	
	Unknown	10.117	250	
	Unknown	10.358	960	
	Unknown	10.582	780	
511-15-9	2-Phenanthrenol, 4b,5,6,7,8,	10.748	13000	
	Unknown	11.073	250	
	Unknown	11.25	180	
	Unknown	11.335	270	
6755-93-7	2(1H)-phenanthrenone, 3,4,4a	11.602	330	
511-05-7	9(1H)-phenanthrenone, 2,3,4,	11.965	180	
	Unknown	12.051	980	
	Unknown	12.986	1600	
	Unknown	14.428	820	

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc. SDG Number: F0D080489

Matrix: (soil/water) SOLID Lab Sample ID: F0D080489 007

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKL1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 3.3

QC Batch: 0100038

Client Sample Id: RE12-10-15447

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
62-75-9	N-Nitrosodimethylamine	340	U
108-95-2	Phenol	340	U
62-53-3	Aniline	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
65794-96-9	3-Methylphenol & 4-Methylphe	680	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
65-85-0	Benzoic acid	1700	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	1700	U

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKL1AE

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 3.3

QC Batch: 0100038

Client Sample Id: RE12-10-15447

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
88-06-2	2,4,6-Trichlorophenol	340		U
95-95-4	2,4,5-Trichlorophenol	340		U
91-58-7	2-Chloronaphthalene	340		U
88-74-4	2-Nitroaniline	1700		U
131-11-3	Dimethyl phthalate	340		U
208-96-8	Acenaphthylene	340		U
606-20-2	2,6-Dinitrotoluene	340		U
99-09-2	3-Nitroaniline	1700		U
83-32-9	Acenaphthene	340		U
51-28-5	2,4-Dinitrophenol	1700		U
100-02-7	4-Nitrophenol	1700		U
53-70-3	Dibenz(a,h)anthracene	340		U
132-64-9	Dibenzofuran	340		U
121-14-2	2,4-Dinitrotoluene	340		U
84-66-2	Diethyl phthalate	340		U
86-73-7	Fluorene	340		U
7005-72-3	4-Chlorophenyl phenyl ether	340		U
100-01-6	4-Nitroaniline	1700		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
86-30-6	N-Nitrosodiphenylamine	340		U
103-33-3	Azobenzene	340		U
129-00-0	Pyrene	340		U
101-55-3	4-Bromophenyl phenyl ether	340		U
118-74-1	Hexachlorobenzene	340		U
87-86-5	Pentachlorophenol	1700		U
85-01-8	Phenanthrene	340		U
120-12-7	Anthracene	340		U
84-74-2	Di-n-butyl phthalate	340		U

FORM I

## Los Alamos National Laboratory

Lab Name:TestAmerica Laboratories, Inc.

SDG Number:F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID:F0D080489 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKL1AE

Date Extracted:04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %:3.3

QC Batch: 0100038

Client Sample Id: RE12-10-15447

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
206-44-0	Fluoranthene	340	U
85-68-7	Butyl benzyl phthalate	340	U
56-55-3	Benzo(a)anthracene	340	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
191-24-2	Benzo(ghi)perylene	340	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	79	(45 - 89 )
Phenol-d5	75	(50 - 88 )
Nitrobenzene-d5	75	(48 - 90 )
2-Fluorobiphenyl	72	(52 - 94 )
2,4,6-Tribromophenol	75	(46 - 106 )
Terphenyl-d14	92	(34 - 107 )

FORM I



Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 007

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKL1AE      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 3.3

QC Batch: 0100038

Client Sample Id: RE12-10-15447

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.8272	290	
	Unknown aldol condensate	4.2918	9200	
5131-66-8	2-Propanol, 1-butoxy-	4.9915	380	
	Unknown	8.3511	150	
	Unknown organic acid	9.3765	200	
	Unknown	11.069	200	

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038  
Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10  
Work Order: LXRW21AA      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/15/10  
Moisture %: NA

QC Batch: 0100038

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg    Q
62-75-9	N-Nitrosodimethylamine	330	U
108-95-2	Phenol	330	U
62-53-3	Aniline	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
65794-96-9	3-Methylphenol & 4-Methylphe	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
621-64-7	N-Nitrosodi-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy) methane	330	U
65-85-0	Benzoic acid	1600	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038  
Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10  
Work Order: LXRW21AA      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/15/10  
Moisture %: NA

QC Batch: 0100038

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethyl phthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	330	U
103-33-3	Azobenzene	330	U
129-00-0	Pyrene	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-butyl phthalate	330	U

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXRW21AA

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0100038

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
206-44-0	Fluoranthene	330	U
85-68-7	Butyl benzyl phthalate	330	U
56-55-3	Benzo(a)anthracene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
191-24-2	Benzo(ghi)perylene	330	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	82	(45 - 89 )
Phenol-d5	79	(50 - 88 )
Nitrobenzene-d5	77	(48 - 90 )
2-Fluorobiphenyl	75	(52 - 94 )
2,4,6-Tribromophenol	77	(46 - 106 )
Terphenyl-d14	76	(34 - 107 )

FORM I

Los Alamos National Laboratory  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXRW21AA      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: NA      QC Batch: 0100038

Client Sample Id: INTRA-LAB BLANK

(ug/L or ug/kg) ug/kg				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown aldol condensate	4.3016	8400	

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D100000 038

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXRW21AC

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0100038

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
108-95-2	Phenol	2520	
111-44-4	bis(2-Chloroethyl) ether	2480	
95-57-8	2-Chlorophenol	2490	
541-73-1	1,3-Dichlorobenzene	2520	
86-74-8	Carbazole	2900	
106-46-7	1,4-Dichlorobenzene	2500	
95-50-1	1,2-Dichlorobenzene	2560	
95-48-7	2-Methylphenol	2540	
65794-96-9	3-Methylphenol & 4-Methylphe	2820	
108-60-1	2,2'-oxybis(1-Chloropropane)	2700	
621-64-7	N-Nitrosodi-n-propylamine	2880	
67-72-1	Hexachloroethane	2610	
98-95-3	Nitrobenzene	2700	
78-59-1	Isophorone	2750	
88-75-5	2-Nitrophenol	2620	
105-67-9	2,4-Dimethylphenol	2660	
111-91-1	bis(2-Chloroethoxy)methane	2730	
120-83-2	2,4-Dichlorophenol	2600	
120-82-1	1,2,4-Trichlorobenzene	2870	
91-20-3	Naphthalene	2680	
106-47-8	4-Chloroaniline	1750	
87-68-3	Hexachlorobutadiene	2700	
59-50-7	4-Chloro-3-methylphenol	2640	
91-57-6	2-Methylnaphthalene	2510	
77-47-4	Hexachlorocyclopentadiene	2760	
88-06-2	2,4,6-Trichlorophenol	2620	
95-95-4	2,4,5-Trichlorophenol	2580	
91-58-7	2-Chloronaphthalene	2790	

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXRW21AC

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0100038

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg    Q
88-74-4	2-Nitroaniline	2760	
131-11-3	Dimethyl phthalate	2790	
208-96-8	Acenaphthylene	2910	
606-20-2	2,6-Dinitrotoluene	2810	
99-09-2	3-Nitroaniline	2420	
83-32-9	Acenaphthene	2810	
51-28-5	2,4-Dinitrophenol	961	
100-02-7	4-Nitrophenol	2730	
53-70-3	Dibenz(a,h)anthracene	3120	
132-64-9	Dibenzofuran	2660	
121-14-2	2,4-Dinitrotoluene	3000	
84-66-2	Diethyl phthalate	2950	
86-73-7	Fluorene	2860	
7005-72-3	4-Chlorophenyl phenyl ether	2890	
100-01-6	4-Nitroaniline	2540	
534-52-1	4,6-Dinitro-2-methylphenol	1610	
86-30-6	N-Nitrosodiphenylamine	3700	
129-00-0	Pyrene	3140	
101-55-3	4-Bromophenyl phenyl ether	3050	
118-74-1	Hexachlorobenzene	2950	
87-86-5	Pentachlorophenol	2590	
85-01-8	Phenanthrene	2920	
120-12-7	Anthracene	2940	
84-74-2	Di-n-butyl phthalate	3010	
206-44-0	Fluoranthene	3050	
85-68-7	Butyl benzyl phthalate	2900	
56-55-3	Benzo(a)anthracene	3170	
91-94-1	3,3'-Dichlorobenzidine	2420	

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 038

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXRW21AC

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0100038

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
218-01-9	Chrysene	2980	
117-81-7	bis(2-Ethylhexyl) phthalate	2990	
117-84-0	Di-n-octyl phthalate	2950	
205-99-2	Benzo(b)fluoranthene	3130	
207-08-9	Benzo(k)fluoranthene	3100	
50-32-8	Benzo(a)pyrene	3020	
193-39-5	Indeno(1,2,3-cd)pyrene	2820	
191-24-2	Benzo(ghi)perylene	3270	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	80	(56 - 89 )
Phenol-d5	78	(58 - 90 )
Nitrobenzene-d5	80	(56 - 92 )
2-Fluorobiphenyl	78	(58 - 95 )
2,4,6-Tribromophenol	90	(56 - 105 )
Terphenyl-d14	73	(44 - 108 )

FORM I



Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc. SDG Number: F0D080489

Matrix: (soil/water) SOLID Lab Sample ID: F0D070439 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 04/07/10

Work Order: LXL41E5

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
108-95-2	Phenol	2740	
111-44-4	bis(2-Chloroethyl) ether	2530	
95-57-8	2-Chlorophenol	2630	
541-73-1	1,3-Dichlorobenzene	2240	
86-74-8	Carbazole	3010	
106-46-7	1,4-Dichlorobenzene	2240	
95-50-1	1,2-Dichlorobenzene	2310	
95-48-7	2-Methylphenol	2760	
65794-96-9	3-Methylphenol & 4-Methylphe	3080	
108-60-1	2,2'-oxybis(1-Chloropropane)	2800	
621-64-7	N-Nitrosodi-n-propylamine	3060	
67-72-1	Hexachloroethane	2230	
98-95-3	Nitrobenzene	2730	
78-59-1	Isophorone	2970	
88-75-5	2-Nitrophenol	2720	
105-67-9	2,4-Dimethylphenol	2820	
111-91-1	bis(2-Chloroethoxy)methane	2910	
120-83-2	2,4-Dichlorophenol	2830	
120-82-1	1,2,4-Trichlorobenzene	2760	
91-20-3	Naphthalene	2660	
106-47-8	4-Chloroaniline	1470	
87-68-3	Hexachlorobutadiene	2570	
59-50-7	4-Chloro-3-methylphenol	2810	
91-57-6	2-Methylnaphthalene	2640	
77-47-4	Hexachlorocyclopentadiene	1330	
88-06-2	2,4,6-Trichlorophenol	2680	
95-95-4	2,4,5-Trichlorophenol	2540	
91-58-7	2-Chloronaphthalene	2830	

Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E5      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg      Q
88-74-4	2-Nitroaniline	2950	
131-11-3	Dimethyl phthalate	2970	
208-96-8	Acenaphthylene	2920	
606-20-2	2,6-Dinitrotoluene	2940	
99-09-2	3-Nitroaniline	2410	
83-32-9	Acenaphthene	2810	
51-28-5	2,4-Dinitrophenol	1880	
100-02-7	4-Nitrophenol	2830	
53-70-3	Dibenz(a,h)anthracene	2520	
132-64-9	Dibenzofuran	2690	
121-14-2	2,4-Dinitrotoluene	2980	
84-66-2	Diethyl phthalate	3290	
86-73-7	Fluorene	3090	
7005-72-3	4-Chlorophenyl phenyl ether	3110	
100-01-6	4-Nitroaniline	2430	
534-52-1	4,6-Dinitro-2-methylphenol	2080	
86-30-6	N-Nitrosodiphenylamine	3570	
129-00-0	Pyrene	3630	
101-55-3	4-Bromophenyl phenyl ether	2940	
118-74-1	Hexachlorobenzene	2590	
87-86-5	Pentachlorophenol	2070	
85-01-8	Phenanthrene	3000	
120-12-7	Anthracene	2840	
84-74-2	Di-n-butyl phthalate	3130	
206-44-0	Fluoranthene	3390	
85-68-7	Butyl benzyl phthalate	3530	
56-55-3	Benzo(a)anthracene	3060	
91-94-1	3,3'-Dichlorobenzidine	979	

Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E5      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
218-01-9	Chrysene	2900		
117-81-7	bis(2-Ethylhexyl) phthalate	3460		
117-84-0	Di-n-octyl phthalate	5360		a
205-99-2	Benzo(b)fluoranthene	3350		
207-08-9	Benzo(k)fluoranthene	3390		
50-32-8	Benzo(a)pyrene	2820		
193-39-5	Indeno(1,2,3-cd)pyrene	2240		
191-24-2	Benzo(ghi)perylene	2520		

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	79	(45 - 89 )
Phenol-d5	80	(50 - 88 )
Nitrobenzene-d5	75	(48 - 90 )
2-Fluorobiphenyl	75	(52 - 94 )
2,4,6-Tribromophenol	81	(46 - 106 )
Terphenyl-d14	89	(34 - 107 )

FORM I

Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E4      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
108-95-2	Phenol	2570	
111-44-4	bis(2-Chloroethyl) ether	2300	
95-57-8	2-Chlorophenol	2480	
541-73-1	1,3-Dichlorobenzene	2020	
86-74-8	Carbazole	2830	
106-46-7	1,4-Dichlorobenzene	2010	
95-50-1	1,2-Dichlorobenzene	2110	
95-48-7	2-Methylphenol	2620	
65794-96-9	3-Methylphenol & 4-Methylphe	2950	
108-60-1	2,2'-oxybis(1-Chloropropane)	2550	
621-64-7	N-Nitrosodi-n-propylamine	2870	
67-72-1	Hexachloroethane	2140	
98-95-3	Nitrobenzene	2480	
78-59-1	Isophorone	2690	
88-75-5	2-Nitrophenol	2470	
105-67-9	2,4-Dimethylphenol	2620	
111-91-1	bis(2-Chloroethoxy)methane	2680	
120-83-2	2,4-Dichlorophenol	2610	
120-82-1	1,2,4-Trichlorobenzene	2520	
91-20-3	Naphthalene	2470	
106-47-8	4-Chloroaniline	1390	
87-68-3	Hexachlorobutadiene	2300	
59-50-7	4-Chloro-3-methylphenol	2650	
91-57-6	2-Methylnaphthalene	2400	
77-47-4	Hexachlorocyclopentadiene	1510	
88-06-2	2,4,6-Trichlorophenol	2660	
95-95-4	2,4,5-Trichlorophenol	2470	
91-58-7	2-Chloronaphthalene	2680	

Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002  
Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10  
Work Order: LXL41E4      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/15/10  
Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg    Q
88-74-4	2-Nitroaniline	2780	
131-11-3	Dimethyl phthalate	2860	
208-96-8	Acenaphthylene	2790	
606-20-2	2,6-Dinitrotoluene	2760	
99-09-2	3-Nitroaniline	2160	
83-32-9	Acenaphthene	2700	
51-28-5	2,4-Dinitrophenol	1880	
100-02-7	4-Nitrophenol	2830	
53-70-3	Dibenz(a,h)anthracene	2270	
132-64-9	Dibenzofuran	2570	
121-14-2	2,4-Dinitrotoluene	2820	
84-66-2	Diethyl phthalate	3000	
86-73-7	Fluorene	2780	
7005-72-3	4-Chlorophenyl phenyl ether	2800	
100-01-6	4-Nitroaniline	2000	
534-52-1	4,6-Dinitro-2-methylphenol	2070	
86-30-6	N-Nitrosodiphenylamine	3400	
129-00-0	Pyrene	3200	
101-55-3	4-Bromophenyl phenyl ether	2850	
118-74-1	Hexachlorobenzene	2500	
87-86-5	Pentachlorophenol	1980	
85-01-8	Phenanthrene	2890	
120-12-7	Anthracene	2750	
84-74-2	Di-n-butyl phthalate	3010	
206-44-0	Fluoranthene	3340	
85-68-7	Butyl benzyl phthalate	3150	
56-55-3	Benzo(a)anthracene	3020	
91-94-1	3,3'-Dichlorobenzidine	746	

Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8270C  
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E4      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 9.4

QC Batch: 0100038

Client Sample Id: LAB MS/MSD

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
218-01-9	Chrysene	2900	
117-81-7	bis(2-Ethylhexyl) phthalate	3190	
117-84-0	Di-n-octyl phthalate	5630	a
205-99-2	Benzo(b)fluoranthene	3520	
207-08-9	Benzo(k)fluoranthene	3550	
50-32-8	Benzo(a)pyrene	2820	
193-39-5	Indeno(1,2,3-cd)pyrene	2030	
191-24-2	Benzo(ghi)perylene	2290	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
2-Fluorophenol	75	(45 - 89 )
Phenol-d5	76	(50 - 88 )
Nitrobenzene-d5	70	(48 - 90 )
2-Fluorobiphenyl	72	(52 - 94 )
2,4,6-Tribromophenol	77	(46 - 106 )
Terphenyl-d14	83	(34 - 107 )

FORM I

## **GC/MS ADDITIONAL FORMS**

## SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D080489

Extraction: XXA13QL01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	77	77	74	73	77	58	00
02	RE12-10-15444	77	74	76	74	82	96	00
03	RE12-10-15443	78	73	72	70	79	88	00
04	RE12-10-15442	78	78	74	72	86	76	00
05	RE12-10-15448	75	71	71	69	85	92	00
06	RE12-10-15446	71	69	66	65	69	79	00
07	RE12-10-15445	75	75	73	70	86	84	00
08	RE12-10-15447	79	75	75	72	75	92	00
09	METHOD BLK. LXRW21AA	82	79	77	75	77	76	00
10	LCS LXRW21AC	80	78	80	78	90	73	00
11	LAB MS/MSD D	79	80	75	75	81	89	00
12	LAB MS/MSD S	75	76	70	72	77	83	00

SURROGATES

SRG01 = 2-Fluorophenol  
 SRG02 = Phenol-d5  
 SRG03 = Nitrobenzene-d5  
 SRG04 = 2-Fluorobiphenyl  
 SRG05 = 2,4,6-Tribromophenol  
 SRG06 = Terphenyl-d14

QC LIMITS

( 45- 89)  
 ( 50- 88)  
 ( 48- 90)  
 ( 52- 94)  
 ( 46-106)  
 ( 34-107)

# Column to be used to flag recovery values  
 \* Values outside of required QC Limits  
 D System monitoring Compound diluted out

FORM II



## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E4

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	3680	ND	2570	70	42 - 83	
bis(2-Chloroethyl) ether	3680	ND	2300	63	40 - 84	
2-Chlorophenol	3680	ND	2480	68	42 - 83	
2-Methylphenol	3680	ND	2620	71	44 - 85	
2,2'-oxybis(1-Chloropropa	3680	ND	2550	69	35 - 92	
3-Methylphenol & 4-Methyl	3680	ND	2950	80	52 - 95	
N-Nitrosodi-n-propylamine	3680	ND	2870	78	46 - 94	
Hexachloroethane	3680	ND	2140	58	37 - 85	
Nitrobenzene	3680	ND	2480	67	43 - 86	
Isophorone	3680	ND	2690	73	47 - 93	
2-Nitrophenol	3680	ND	2470	67	40 - 89	
2,4-Dimethylphenol	3680	ND	2620	71	45 - 86	
bis(2-Chloroethoxy) methan	3680	ND	2680	73	44 - 91	
2,4-Dichlorophenol	3680	ND	2610	71	44 - 85	
1,2,4-Trichlorobenzene	3680	ND	2520	69	44 - 87	
Naphthalene	3680	ND	2470	67	44 - 87	
4-Chloroaniline	3680	ND	1390	38	24 - 82	
Hexachlorobutadiene	3680	ND	2300	62	41 - 88	
4-Chloro-3-methylphenol	3680	ND	2650	72	46 - 91	
2-Methylnaphthalene	3680	ND	2400	65	40 - 83	
Hexachlorocyclopentadiene	3680	ND	1510	41	20 - 125	
2,4,6-Trichlorophenol	3680	ND	2660	72	47 - 90	
2,4,5-Trichlorophenol	3680	ND	2470	67	46 - 93	
2-Nitroaniline	3680	ND	2780	76	50 - 95	
Dimethyl phthalate	3680	ND	2860	78	49 - 95	
Acenaphthylene	3680	ND	2790	76	50 - 95	
2,6-Dinitrotoluene	3680	ND	2760	75	49 - 98	
3-Nitroaniline	3680	ND	2160	59	32 - 95	

(Continued on next page)

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E4

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Acenaphthene	3680	ND	2700	73	48 - 90	
2,4-Dinitrophenol	3680	ND	1880	51	10 - 95	
4-Nitrophenol	3680	ND	2830	77	46 - 98	
Dibenzofuran	3680	ND	2570	70	48 - 89	
2,4-Dinitrotoluene	3680	ND	2820	77	46 - 100	
Diethyl phthalate	3680	ND	3000	81	51 - 99	
4-Chlorophenyl phenyl eth	3680	ND	2800	76	50 - 97	
Fluorene	3680	ND	2780	76	50 - 95	
4-Nitroaniline	3680	ND	2000	54	37 - 97	
4,6-Dinitro-2-methylpheno	3680	ND	2070	56	10 - 113	
N-Nitrosodiphenylamine	3680	ND	3400	92	59 - 121	
4-Bromophenyl phenyl ethe	3680	ND	2850	77	50 - 102	
Hexachlorobenzene	3680	ND	2500	68	39 - 107	
Pentachlorophenol	3680	ND	1980	54	22 - 87	
Phenanthrene	3680	260	2890	72	43 - 100	
Anthracene	3680	ND	2750	75	50 - 97	
Carbazole	3680	46	2830	76	50 - 96	
Di-n-butyl phthalate	3680	ND	3010	82	51 - 99	
Fluoranthene	3680	880	3340	67	43 - 96	
Pyrene	3680	520	3200	73	37 - 111	
Butyl benzyl phthalate	3680	ND	3150	86	39 - 112	
3,3'-Dichlorobenzidine	3680	ND	746	20	20 - 104	
Benzo(a)anthracene	3680	130	3020	79	46 - 100	
Chrysene	3680	290	2900	71	42 - 106	
bis(2-Ethylhexyl) phthala	3680	ND	3190	87	40 - 103	
Di-n-octyl phthalate	3680	ND	5630	153*	30 - 134	a
Benzo(b)fluoranthene	3680	250	3520	89	44 - 107	
Benzo(k)fluoranthene	3680	190	3550	92	40 - 110	

(Continued on next page)

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E4

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Benzo(a)pyrene	3680	98	2820	74	40 - 109	
Indeno(1,2,3-cd)pyrene	3680	ND	2030	55	18 - 121	
Dibenz(a,h)anthracene	3680	ND	2270	62	21 - 120	
Benzo(ghi)perylene	3680	55	2290	61	10 - 127	
1,2-Dichlorobenzene	3680	ND	2110	57	39 - 84	
1,3-Dichlorobenzene	3680	ND	2020	55	37 - 83	
1,4-Dichlorobenzene	3680	ND	2010	55	38 - 82	
2-Chloronaphthalene	3680	ND	2680	73	47 - 90	

## NOTES(S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS:

FORM III

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E5

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
Phenol	3680	2740	75	6.5	30	42 - 83	
bis(2-Chloroethyl) ether	3680	2530	69	9.7	30	40 - 84	
2-Chlorophenol	3680	2630	72	5.9	30	42 - 83	
2-Methylphenol	3680	2760	75	5.3	30	44 - 85	
2,2'-oxybis(1-Chloropropa	3680	2800	76	9.2	30	35 - 92	
3-Methylphenol & 4-Methyl	3680	3080	84	4.4	30	52 - 95	
N-Nitrosodi-n-propylamine	3680	3060	83	6.2	30	46 - 94	
Hexachloroethane	3680	2230	61	3.9	30	37 - 85	
Nitrobenzene	3680	2730	74	9.5	30	43 - 86	
Isophorone	3680	2970	81	9.9	30	47 - 93	
2-Nitrophenol	3680	2720	74	9.8	30	40 - 89	
2,4-Dimethylphenol	3680	2820	77	7.6	30	45 - 86	
bis(2-Chloroethoxy)methan	3680	2910	79	8.2	30	44 - 91	
2,4-Dichlorophenol	3680	2830	77	7.8	30	44 - 85	
1,2,4-Trichlorobenzene	3680	2760	75	9.3	30	44 - 87	
Naphthalene	3680	2660	72	7.6	30	44 - 87	
4-Chloroaniline	3680	1470	40	5.6	30	24 - 82	
Hexachlorobutadiene	3680	2570	70	11	30	41 - 88	
4-Chloro-3-methylphenol	3680	2810	77	6.1	30	46 - 91	
2-Methylnaphthalene	3680	2640	72	9.8	30	40 - 83	
Hexachlorocyclopentadiene	3680	1330	36	13	30	20 - 125	
2,4,6-Trichlorophenol	3680	2680	73	0.74	30	47 - 90	
2,4,5-Trichlorophenol	3680	2540	69	2.6	30	46 - 93	
2-Nitroaniline	3680	2950	80	6.0	30	50 - 95	
Dimethyl phthalate	3680	2970	81	4.0	30	49 - 95	
Acenaphthylene	3680	2920	80	4.8	30	50 - 95	
2,6-Dinitrotoluene	3680	2940	80	6.1	30	49 - 98	
3-Nitroaniline	3680	2410	66	11	30	32 - 95	

(Continued on next page)

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E5

BATCH: 0100038

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
Acenaphthene	3680	2810	76	4.1	30	48 - 90	
2,4-Dinitrophenol	3680	1880	51	0.050	30	10 - 95	
4-Nitrophenol	3680	2830	77	0.23	30	46 - 98	
Dibenzofuran	3680	2690	73	4.5	30	48 - 89	
2,4-Dinitrotoluene	3680	2980	81	5.6	30	46 - 100	
Diethyl phthalate	3680	3290	89	9.3	30	51 - 99	
4-Chlorophenyl phenyl eth	3680	3110	85	11	30	50 - 97	
Fluorene	3680	3090	84	11	30	50 - 95	
4-Nitroaniline	3680	2430	66	20	30	37 - 97	
4,6-Dinitro-2-methylpheno	3680	2080	57	0.58	30	10 - 113	
N-Nitrosodiphenylamine	3680	3570	97	4.8	30	59 - 121	
4-Bromophenyl phenyl ethe	3680	2940	80	3.2	30	50 - 102	
Hexachlorobenzene	3680	2590	70	3.5	30	39 - 107	
Pentachlorophenol	3680	2070	56	4.4	30	22 - 87	
Phenanthrene	3680	3000	75	3.7	30	43 - 100	
Anthracene	3680	2840	77	3.2	30	50 - 97	
Carbazole	3680	3010	81	6.2	30	50 - 96	
Di-n-butyl phthalate	3680	3130	85	4.0	30	51 - 99	
Fluoranthene	3680	3390	68	1.5	30	43 - 96	
Pyrene	3680	3630	85	13	30	37 - 111	
Butyl benzyl phthalate	3680	3530	96	11	30	39 - 112	
3,3'-Dichlorobenzidine	3680	979	27	27	30	20 - 104	
Benzo(a)anthracene	3680	3060	80	1.0	30	46 - 100	
Chrysene	3680	2900	71	0.030	30	42 - 106	
bis(2-Ethylhexyl) phthala	3680	3460	94	8.1	30	40 - 103	
Di-n-octyl phthalate	3680	5360	146*	4.8	30	30 - 134	a
Benzo(b)fluoranthene	3680	3350	84	5.1	30	44 - 107	
Benzo(k)fluoranthene	3680	3390	87	4.7	30	40 - 110	

(Continued on next page)

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E5

BATCH: 0100038

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS			QUAL
			% REC	% RPD	RPD	REC		
Benzo(a)pyrene	3680	2820	74	0.070	30	40 - 109		
Indeno(1,2,3-cd)pyrene	3680	2240	61	9.8	30	18 - 121		
Dibenz(a,h)anthracene	3680	2520	68	10	30	21 - 120		
Benzo(ghi)perylene	3680	2520	67	9.5	30	10 - 127		
1,2-Dichlorobenzene	3680	2310	63	9.1	30	39 - 84		
1,3-Dichlorobenzene	3680	2240	61	11	30	37 - 83		
1,4-Dichlorobenzene	3680	2240	61	11	30	38 - 82		
2-Chloronaphthalene	3680	2830	77	5.4	30	47 - 90		

## NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 64 outside limitsSpike Recovery: 1 out of 64 outside limits

COMMENTS:

FORM III \

## SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D100000

WO #: LXRW21AC

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	3330	2520	76	52 - 82	
bis(2-Chloroethyl) ether	3330	2480	74	45 - 96	
2-Chlorophenol	3330	2490	75	53 - 84	
2-Methylphenol	3330	2540	76	54 - 86	
2,2'-oxybis(1-Chloropropa	3330	2700	81	38 - 100	
3-Methylphenol & 4-Methyl	3330	2820	85	59 - 98	
N-Nitrosodi-n-propylamine	3330	2880	86	57 - 96	
Hexachloroethane	3330	2610	78	52 - 89	
Nitrobenzene	3330	2700	81	52 - 88	
Isophorone	3330	2750	82	57 - 93	
2-Nitrophenol	3330	2620	79	53 - 88	
2,4-Dimethylphenol	3330	2660	80	56 - 85	
bis(2-Chloroethoxy)methan	3330	2730	82	55 - 90	
2,4-Dichlorophenol	3330	2600	78	53 - 84	
1,2,4-Trichlorobenzene	3330	2870	86	55 - 89	
Naphthalene	3330	2680	80	53 - 88	
4-Chloroaniline	3330	1750	52	43 - 76	
Hexachlorobutadiene	3330	2700	81	54 - 91	
4-Chloro-3-methylphenol	3330	2640	79	58 - 87	
2-Methylnaphthalene	3330	2510	75	48 - 90	
Hexachlorocyclopentadiene	3330	2760	83	55 - 112	
2,4,6-Trichlorophenol	3330	2620	79	55 - 89	
2,4,5-Trichlorophenol	3330	2580	77	56 - 89	
2-Nitroaniline	3330	2760	83	55 - 95	
Dimethyl phthalate	3330	2790	84	57 - 92	
Acenaphthylene	3330	2910	87	59 - 95	
2,6-Dinitrotoluene	3330	2810	84	59 - 96	
3-Nitroaniline	3330	2420	73	51 - 86	
Acenaphthene	3330	2810	84	56 - 91	
2,4-Dinitrophenol	3330	961	29	10 - 71	
4-Nitrophenol	3330	2730	82	55 - 92	

(Continued on next page)

## SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D100000

WO #: LXRW21AC

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Dibenzofuran	3330	2660	80	56 - 88	
2,4-Dinitrotoluene	3330	3000	90	58 - 97	
Diethyl phthalate	3330	2950	89	60 - 96	
4-Chlorophenyl phenyl eth	3330	2890	87	61 - 94	
Fluorene	3330	2860	86	60 - 93	
4-Nitroaniline	3330	2540	76	51 - 92	
4,6-Dinitro-2-methylpheno	3330	1610	48	20 - 93	
N-Nitrosodiphenylamine	3330	3700	111	71 - 123	
4-Bromophenyl phenyl ethe	3330	3050	92	61 - 101	
Hexachlorobenzene	3330	2950	89	60 - 99	
Pentachlorophenol	3330	2590	78	39 - 88	
Phenanthrene	3330	2920	88	58 - 95	
Anthracene	3330	2940	88	59 - 97	
Carbazole	3330	2900	87	59 - 95	
Di-n-butyl phthalate	3330	3010	90	59 - 98	
Fluoranthene	3330	3050	92	57 - 92	
Pyrene	3330	3140	94	59 - 104	
Butyl benzyl phthalate	3330	2900	87	60 - 101	
3,3'-Dichlorobenzidine	3330	2420	73	52 - 94	
Benzo(a)anthracene	3330	3170	95	60 - 98	
Chrysene	3330	2980	89	59 - 102	
bis(2-Ethylhexyl) phthala	3330	2990	90	54 - 101	
Di-n-octyl phthalate	3330	2950	89	59 - 109	
Benzo(b)fluoranthene	3330	3130	94	55 - 108	
Benzo(k)fluoranthene	3330	3100	93	63 - 100	
Benzo(a)pyrene	3330	3020	91	61 - 105	
Indeno(1,2,3-cd)pyrene	3330	2820	85	60 - 108	
Dibenz(a,h)anthracene	3330	3120	94	58 - 107	
Benzo(ghi)perylene	3330	3270	98	60 - 110	
1,2-Dichlorobenzene	3330	2560	77	52 - 85	
1,3-Dichlorobenzene	3330	2520	76	51 - 85	

(Continued on next page)



## SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D100000

WO #: LXRW21AC

BATCH: 0100038

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	3330	2500	75	51 - 85	
2-Chloronaphthalene	3330	2790	84	55 - 91	

NOTES (S) :

\* Values outside of QC limits

Spike Recovery:   0   out of  64  outside limits

COMMENTS:

FORM III

## SW846 8270C METHOD BLANK SUMMARY

## BLANK WORKORDER NO.

LXRW21AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number: F0D080489

Lab File ID: JBLK2439

Lot Number: F0D080489

Date Analyzed: 04/15/10

Time Analyzed: 15:27

Matrix: SOLID

Date Extracted: 04/10/10

GC Column: RTX-5MS ID: .25

Extraction Method: 3550B

Instrument ID: MSJ

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	INTRA-LAB QC	LXLR41A8	JSMP2445	04/15/10	17:58
02	LAB MS/MSD	LXLR41E4 S	JSMP2446	04/15/10	18:23
03	LAB MS/MSD	LXLR41E5 D	JSMP2447	04/15/10	18:48
04	RE12-10-15444	LXNJ91AE	JSMP2448	04/15/10	19:13
05	RE12-10-15443	LXNKC1AE	JSMP2449	04/15/10	19:38
06	RE12-10-15442	LXNKE1AE	JSMP2450	04/15/10	20:04
07	RE12-10-15448	LXNKG1AE	JSMP2451	04/15/10	20:29
08	RE12-10-15446	LXNKH1AE	JSMP2452	04/15/10	20:54
09	RE12-10-15445	LXNKJ1AE	JSMP2453	04/15/10	21:20
10	RE12-10-15447	LXNKL1AE	JSMP2454	04/15/10	21:45
11	CHECK SAMPLE	LXRW21AC C	JLCS2440	04/15/10	15:52
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

FORM 5  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA

Contract: 108581

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D080489

Lab File ID: JDFT2428

DFTPP Injection Date: 04/15/10

Instrument ID: MSJ

DFTPP Injection Time: 1055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.2
68	Less than 2.0% of mass 69	0.0 ( 0.0)1
69	Mass 69 relative abundance	51.1
70	Less than 2.0% of mass 69	0.0 ( 0.0)1
127	40.0 - 60.0% of mass 198	50.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	28.1
365	Greater than 1.0% of mass 198	3.39
441	Present, but less than mass 443	12.0
442	Greater than 40.0% of mass 198	75.2
443	17.0 - 23.0% of mass 442	14.7 ( 19.6)2

1-Value is % mass 69                      2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	JCAL2429	04/15/10	1113
02	SSTD160	SSTD160	JCAL2430	04/15/10	1138
03	SSTD120	SSTD120	JCAL2431	04/15/10	1203
04	SSTD080	SSTD080	JCAL2432	04/15/10	1229
05	SSTD020	SSTD020	JCAL2433	04/15/10	1254
06	SSTD010	SSTD010	JCAL2434	04/15/10	1320
07	SSTD050ICV	SSTD050ICV	JCAL2436	04/15/10	1411
08	SBLKJ105B	LXRW21AA	JBLK2439	04/15/10	1527
09	SLCSJ105A	LXRW21AC	JLCS2440	04/15/10	1552
10	WST32-10-138	LXLR41A8	JSMP2445	04/15/10	1758
11	WST32-10-138	LXLR41E4	JSMP2446	04/15/10	1823
12	WST32-10-138	LXLR41E5	JSMP2447	04/15/10	1848
13	RE12-10-1544	LXNJ91AE	JSMP2448	04/15/10	1913
14	RE12-10-1544	LXNKC1AE	JSMP2449	04/15/10	1938
15	RE12-10-1544	LXNKE1AE	JSMP2450	04/15/10	2004
16	RE12-10-1544	LXNKG1AE	JSMP2451	04/15/10	2029
17	RE12-10-1544	LXNKH1AE	JSMP2452	04/15/10	2054
18	RE12-10-1544	LXNKJ1AE	JSMP2453	04/15/10	2120
19	RE12-10-1544	LXNKL1AE	JSMP2454	04/15/10	2145
20					
21					
22					

page 1 of 1

FORM V SV

FORM 8  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA

Contract: 108581

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D080489

Lab File ID (Standard): JCAL2436

Date Analyzed: 04/15/10

Instrument ID: MSJ

Time Analyzed: 1411

	IS1 (ANT)		IS2 (DCB)		IS3 (NPT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	284118	7.86	136224	5.50	497892	6.47
UPPER LIMIT	568236	8.36	272448	6.00	995784	6.97
LOWER LIMIT	142059	7.36	68112	5.00	248946	5.97
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLKJ105B	195545	7.85	95713	5.49	344887	6.46
02 SLCSJ105A	180888	7.85	93135	5.49	321211	6.46
03 WST32-10-138	182864	7.86	91906	5.50	324069	6.47
04 WST32-10-138	192796	7.85	95942	5.50	341399	6.46
05 WST32-10-138	186708	7.85	97467	5.49	332305	6.46
06 RE12-10-1544	185828	7.85	93139	5.50	333781	6.47
07 RE12-10-1544	193400	7.86	92317	5.51	343078	6.47
08 RE12-10-1544	196434	7.85	91849	5.50	328963	6.46
09 RE12-10-1544	193618	7.85	95470	5.49	333014	6.46
10 RE12-10-1544	199451	7.84	98243	5.49	347108	6.45
11 RE12-10-1544	194139	7.85	94266	5.49	336654	6.46
12 RE12-10-1544	190693	7.84	94488	5.49	325581	6.46
13						
14						
15						
16						
17						
18						
19						
20						

IS1 (ANT) = Acenaphthene-d10

IS2 (DCB) = 1,4-Dichlorobenzene-d4

IS3 (NPT) = Naphthalene-d8

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

# Column used to flag internal standard area values with an asterisk.

\* Values outside of QC limits.

FORM 8  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA

Contract: 108581

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D080489

Lab File ID (Standard): JCAL2436

Date Analyzed: 04/15/10

Instrument ID: MSJ

Time Analyzed: 1411

	IS4 (PRY)	RT #	IS5 (PHN)	RT #	IS6 (CRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	560331	13.80	556385	9.05	613356	11.46
UPPER LIMIT	1120662	14.30	1112770	9.55	1226712	11.96
LOWER LIMIT	280166	13.30	278193	8.55	306678	10.96
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLKJ105B	331238	13.77	363949	9.04	365042	11.44
02 SLCSJ105A	353760	13.77	343760	9.04	357278	11.45
03 WST32-10-138	265371*	13.80	351279	9.05	441975	11.46
04 WST32-10-138	214305*	13.79	383569	9.04	430283	11.46
05 WST32-10-138	206958*	13.78	397136	9.04	391012	11.45
06 RE12-10-1544	233622*	13.80	370397	9.05	387064	11.46
07 RE12-10-1544	233029*	13.81	375925	9.05	397154	11.46
08 RE12-10-1544	218617*	13.79	386097	9.04	401191	11.46
09 RE12-10-1544	228959*	13.78	381208	9.04	401331	11.45
10 RE12-10-1544	235539*	13.76	389288	9.04	411624	11.44
11 RE12-10-1544	234858*	13.78	384800	9.04	404666	11.45
12 RE12-10-1544	229818*	13.76	369533	9.03	387742	11.44
13						
14						
15						
16						
17						
18						
19						
20						

IS4 (PRY) = Perylene-d12

IS5 (PHN) = Phenanthrene-d10

IS6 (CRY) = Chrysene-d12

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

# Column used to flag internal standard area values with an asterisk.

\* Values outside of QC limits.

**GC/MS STANDARDS DATA**

**INITIAL CALIBRATION DATA**

**CALIBRATION VERIFICATION DATA**

Data File: JDFT2428.D  
Report Date: 15-Apr-2010 11:11

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D  
Lab Smp Id: SW846-T1 Client Smp ID: SW846-T1  
Inj Date : 15-APR-2010 10:55  
Operator : Tim Matthews Inst ID: MSJ.i  
Smp Info : DFTPP  
Misc Info : SV0128-10  
Comment :  
Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m  
Meth Date : 15-Apr-2010 11:10 kuessnerm Quant Type: ESTD  
Cal Date : Cal File:  
Als bottle: 3 QC Sample: SW846\_TUNE  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.10  
Processing Host: SLSVOA01

Concentration Formula: Amt \* DF \* Uf \* Vf \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

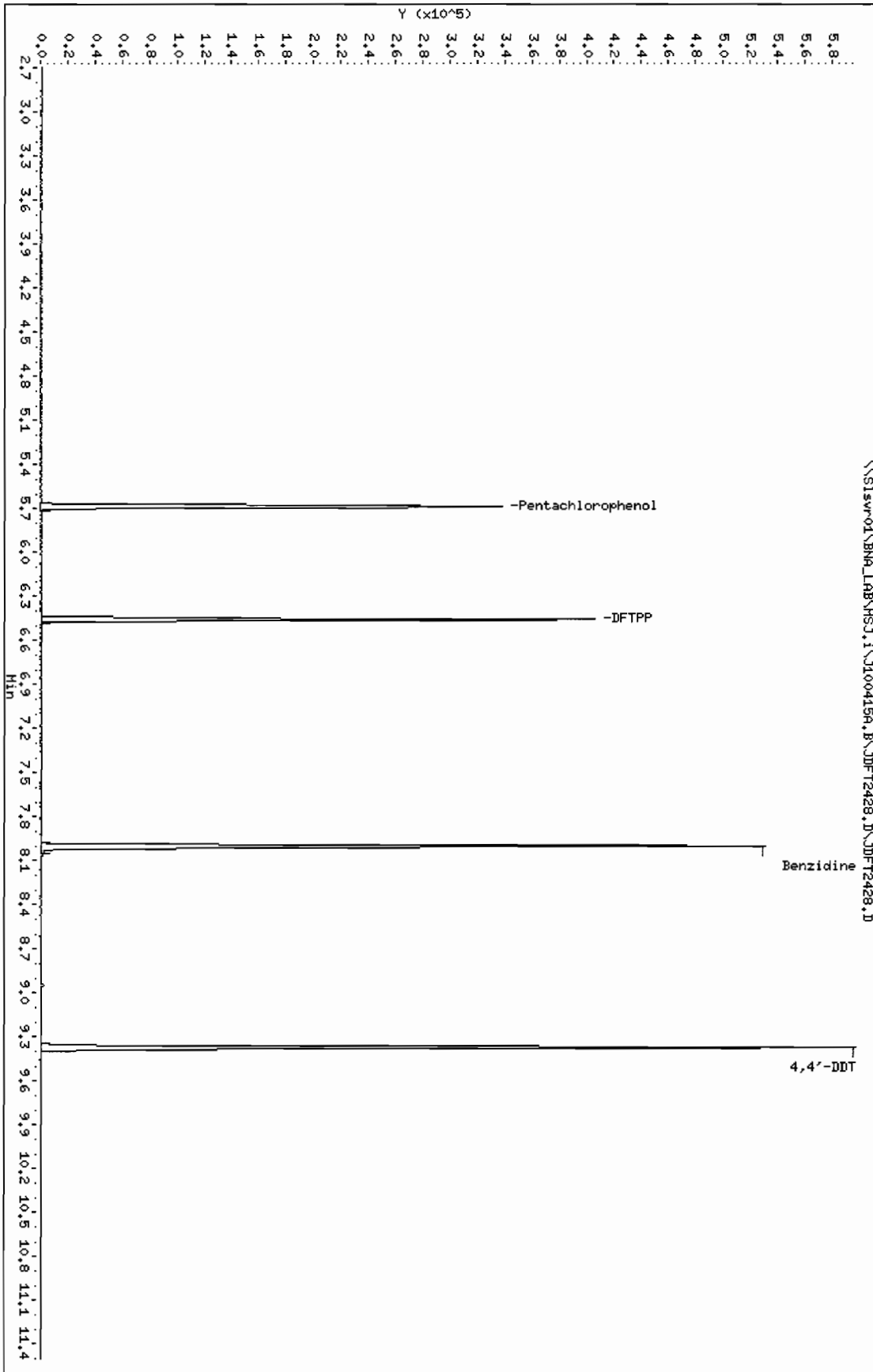
Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
1 Pentachlorophenol	266	5.688	5.680	0.008	51016		(aQ)	
2 DFTPP	198	6.457	6.460	-0.003	49157		(aQ)	
3 Benzidine	184	8.001	8.000	0.001	233452		(aQ)	
	184	8.059	8.000	0.059	2480		(aQ)	
4 4,4'-DDD	235	Compound Not Detected.						
5 4,4'-DDT	235	9.373	9.370	0.003	132015		(aQ)	
	235	8.951	9.370	-0.419	861		(aQ)	
6 4,4'-DDE	246	Compound Not Detected.						

## QC Flag Legend

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

Data File: \\slsw01\BNA\_LAB\HSLJ.1\1100415A.B\JDF12428.D  
 Date : 15-APR-2010 10:55  
 Client ID: SM846-T1  
 Sample Info: DFTPP  
 Column phase:

Instrument: HSLJ.1  
 Operator: Tim Matthews  
 Column diameter: 2.00





Data File: \\Slsrv01\BNA\_LAB\MSJ.i\J100415A,B\JDFT2428.D\JDFT2428.D

Page 2

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ.i

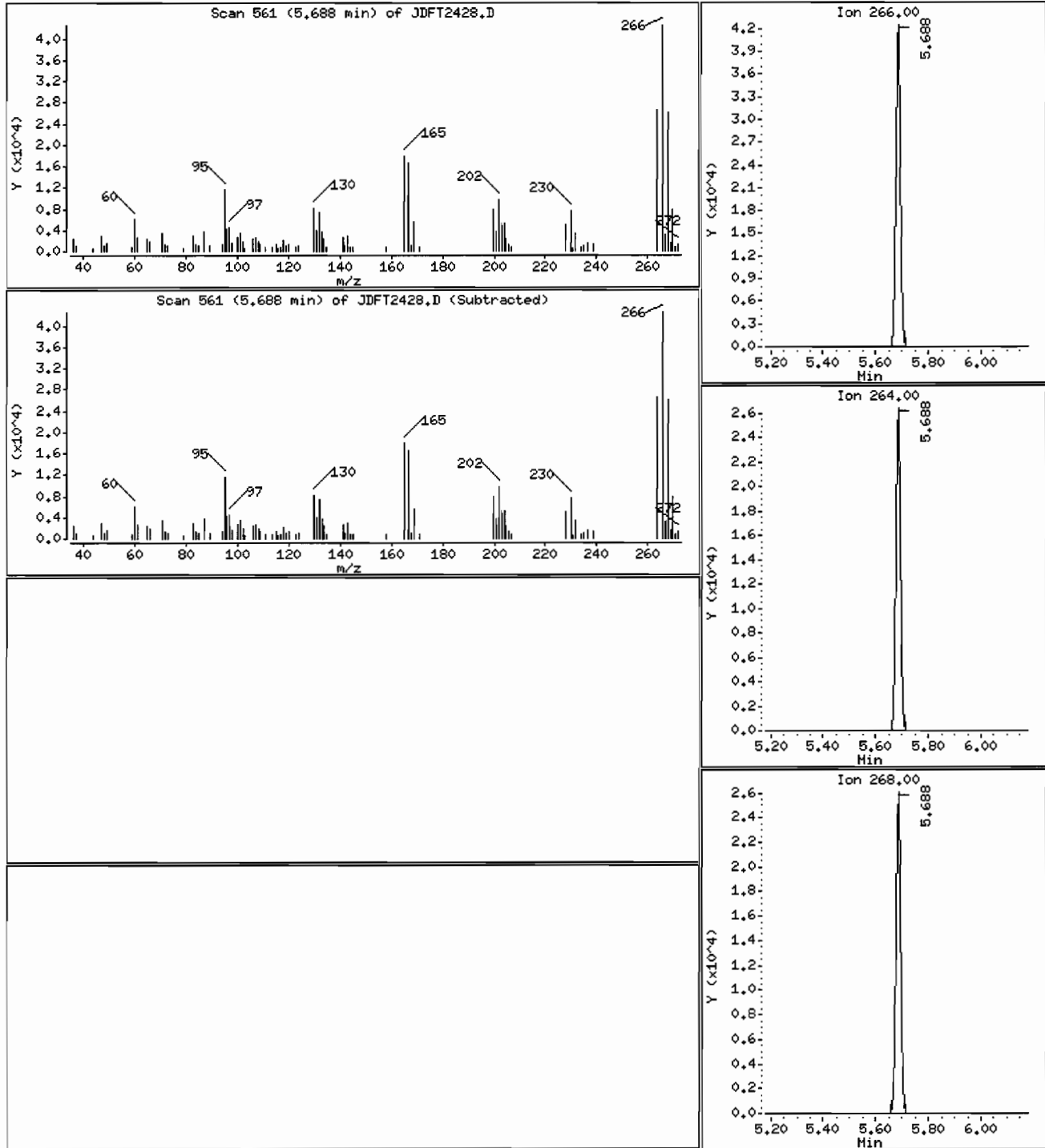
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

1 Pentachlorophenol



Data File: \\slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

Page 3

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

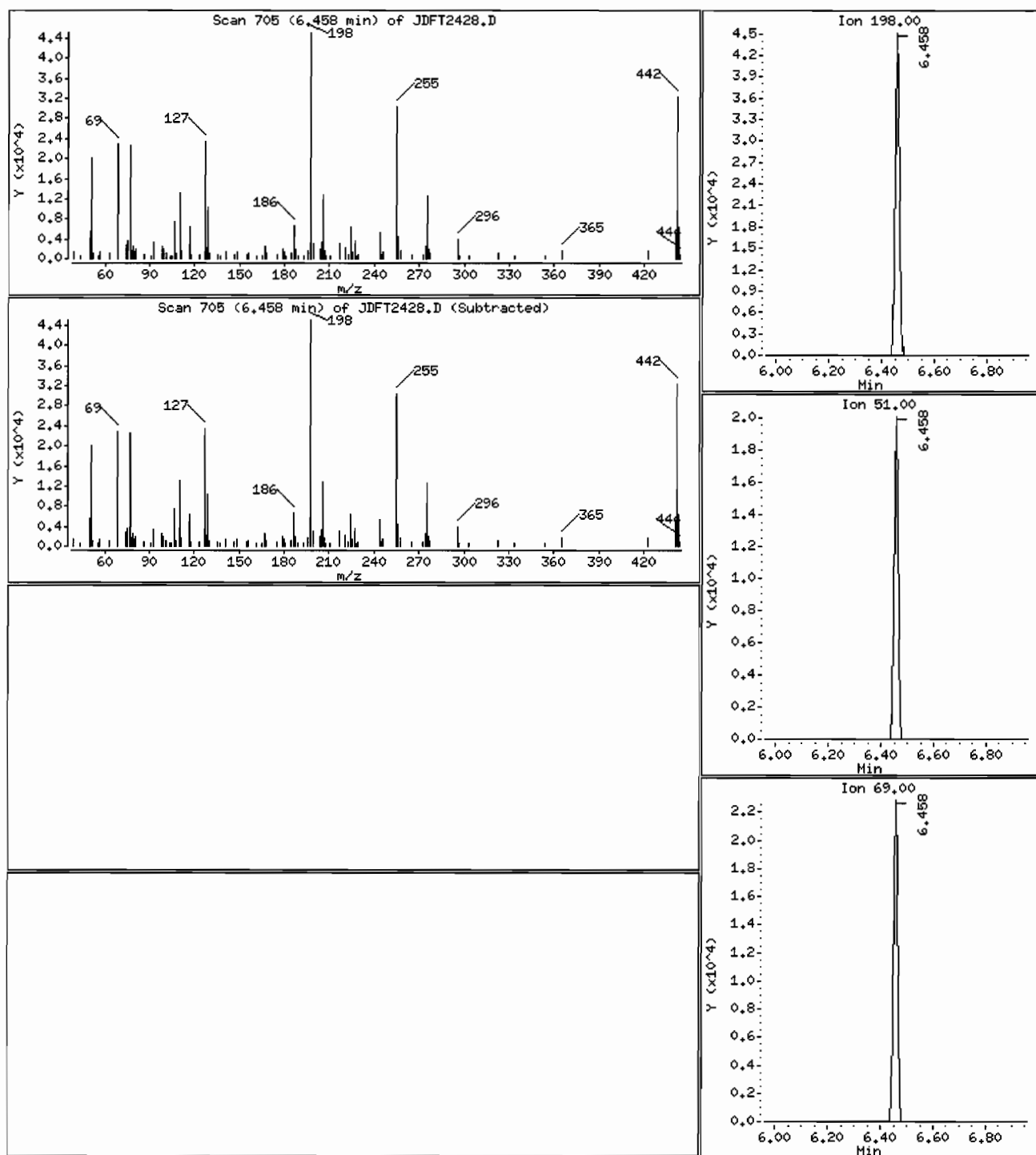
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

2 DFTPP



Data File: \\slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

Page 4

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ.i

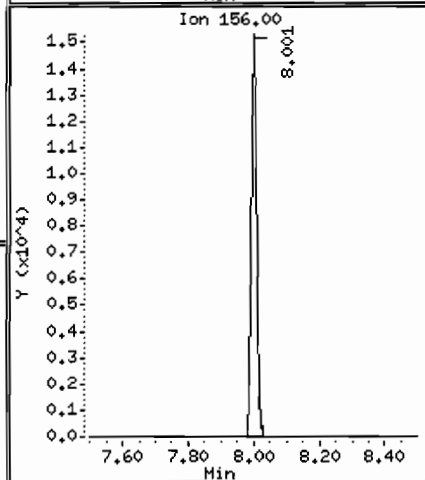
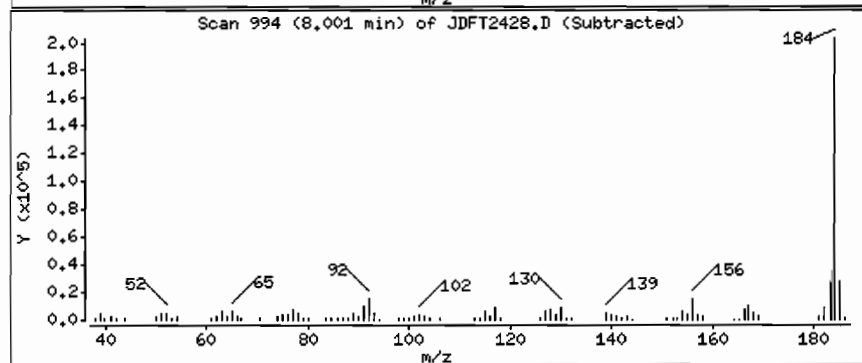
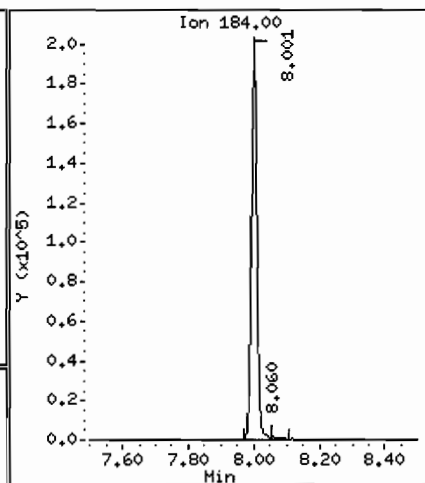
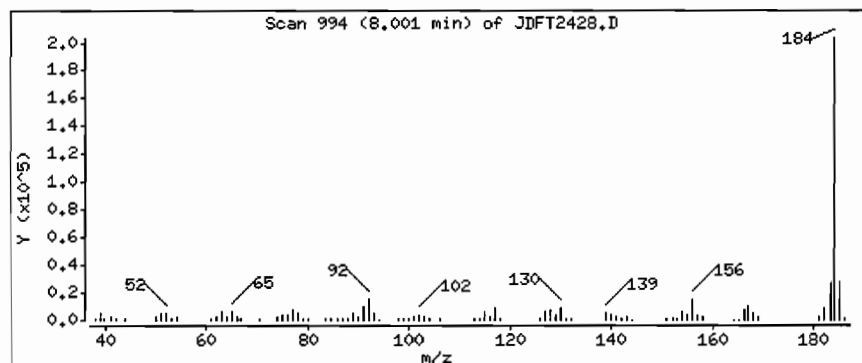
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

3 Benzidine



Data File: \\Slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

Page 5

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

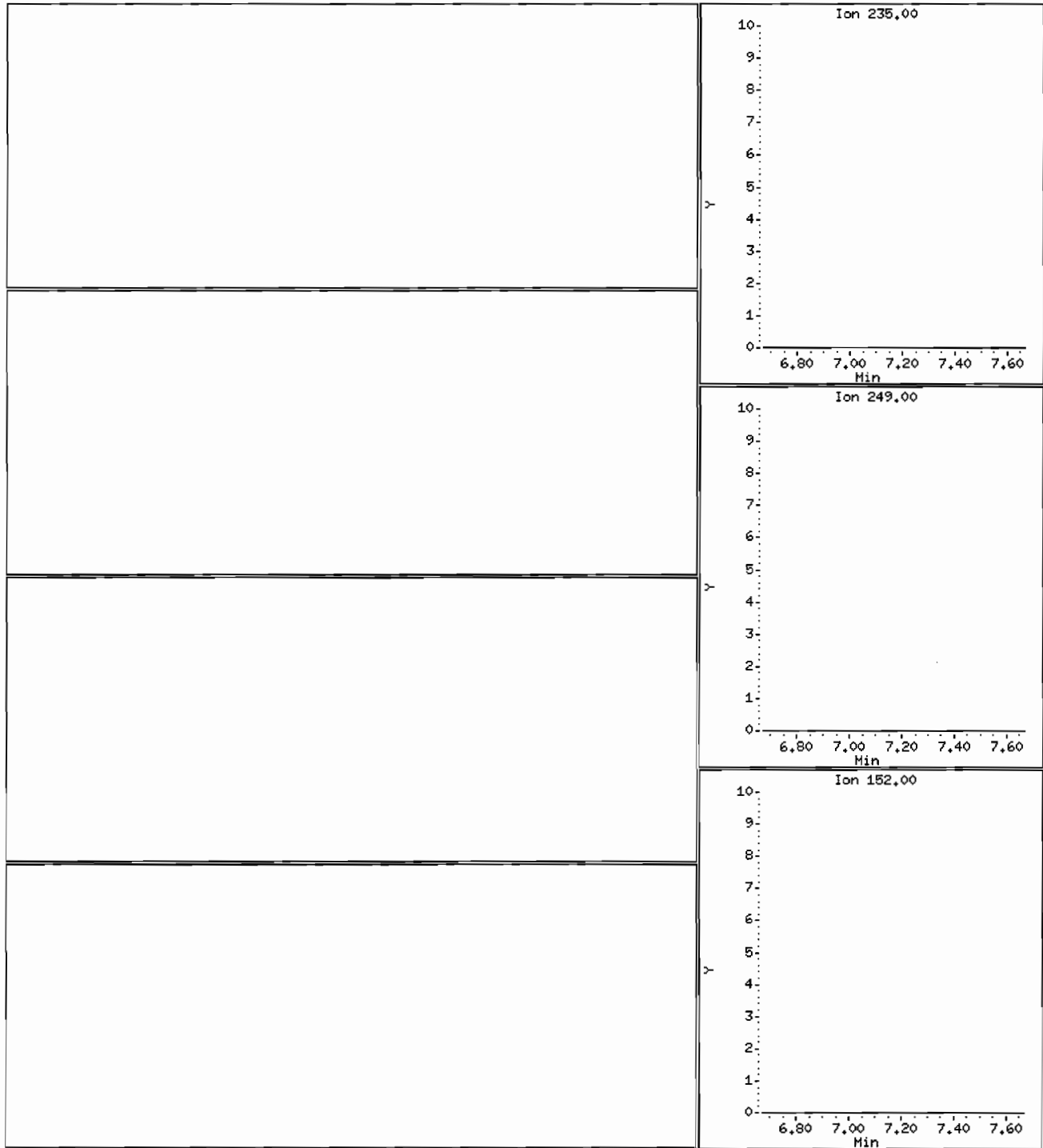
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

4 4,4'-DDD (Undetected)



Data File: \\Slsrv01\BNA\_LAB\MSJ.i\J100415A.B\JDT2428.D\JDT2428.D

Page 6

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ.i

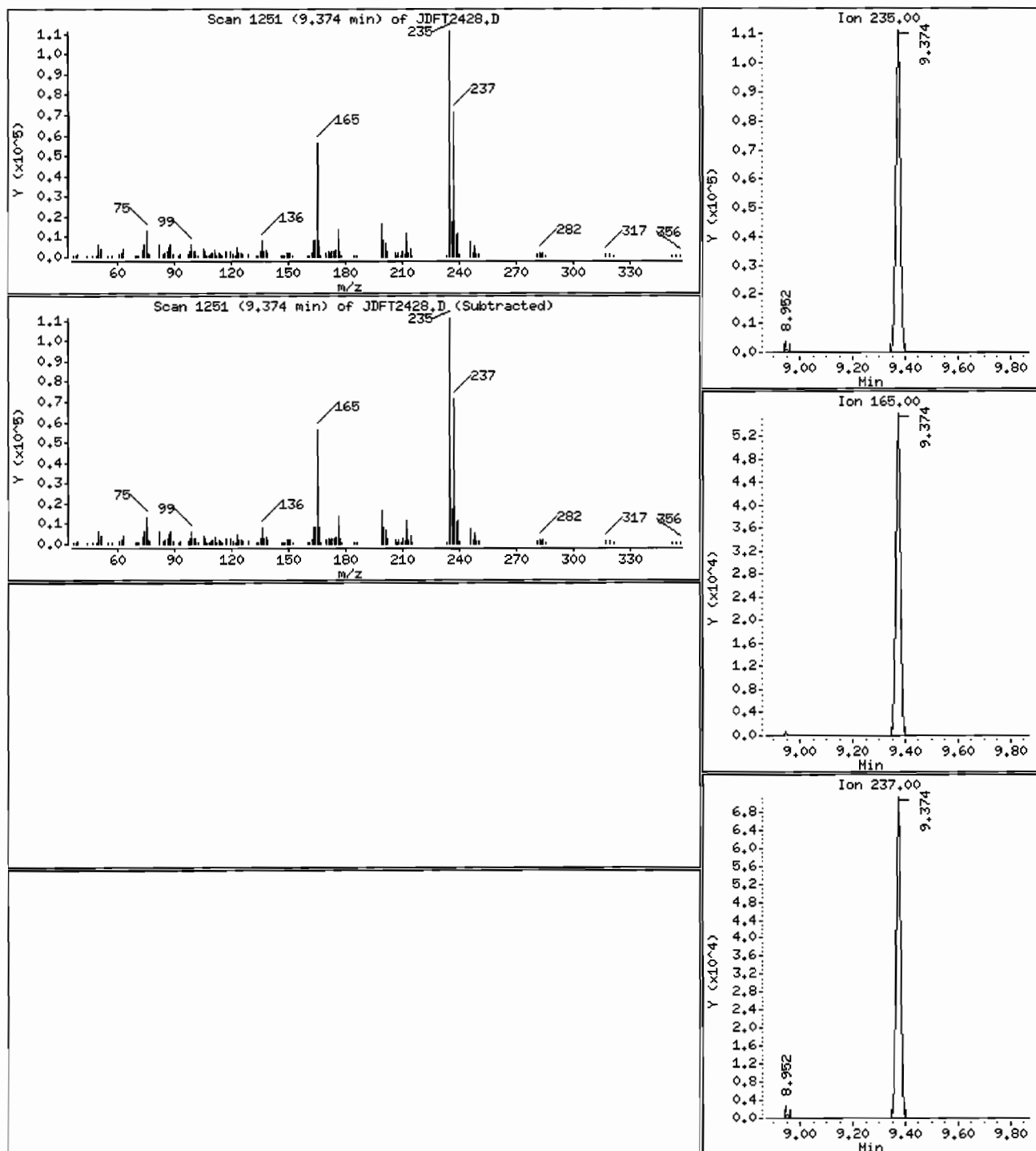
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

5 4,4'-DDT



Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D

Page 7

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ.i

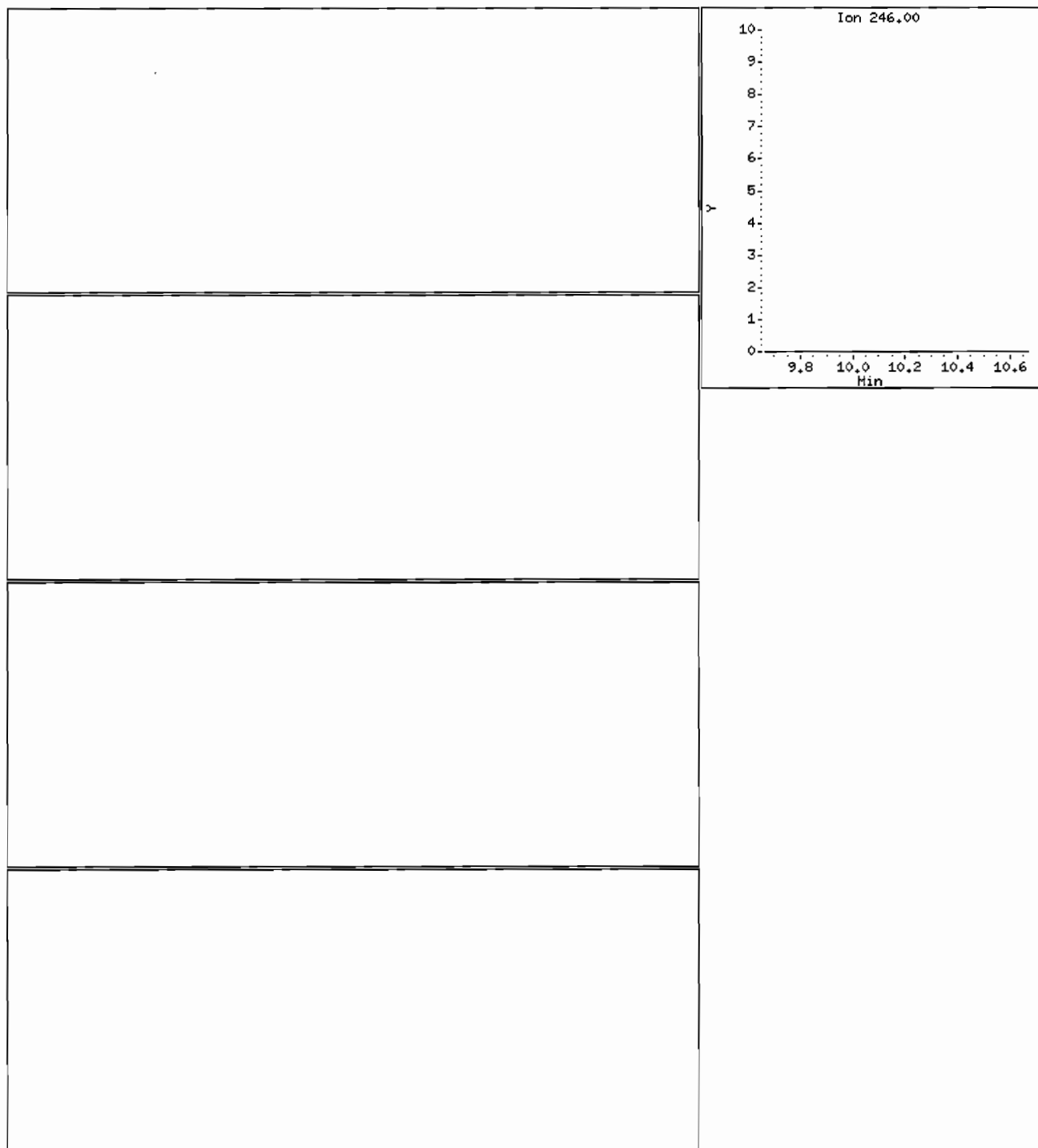
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

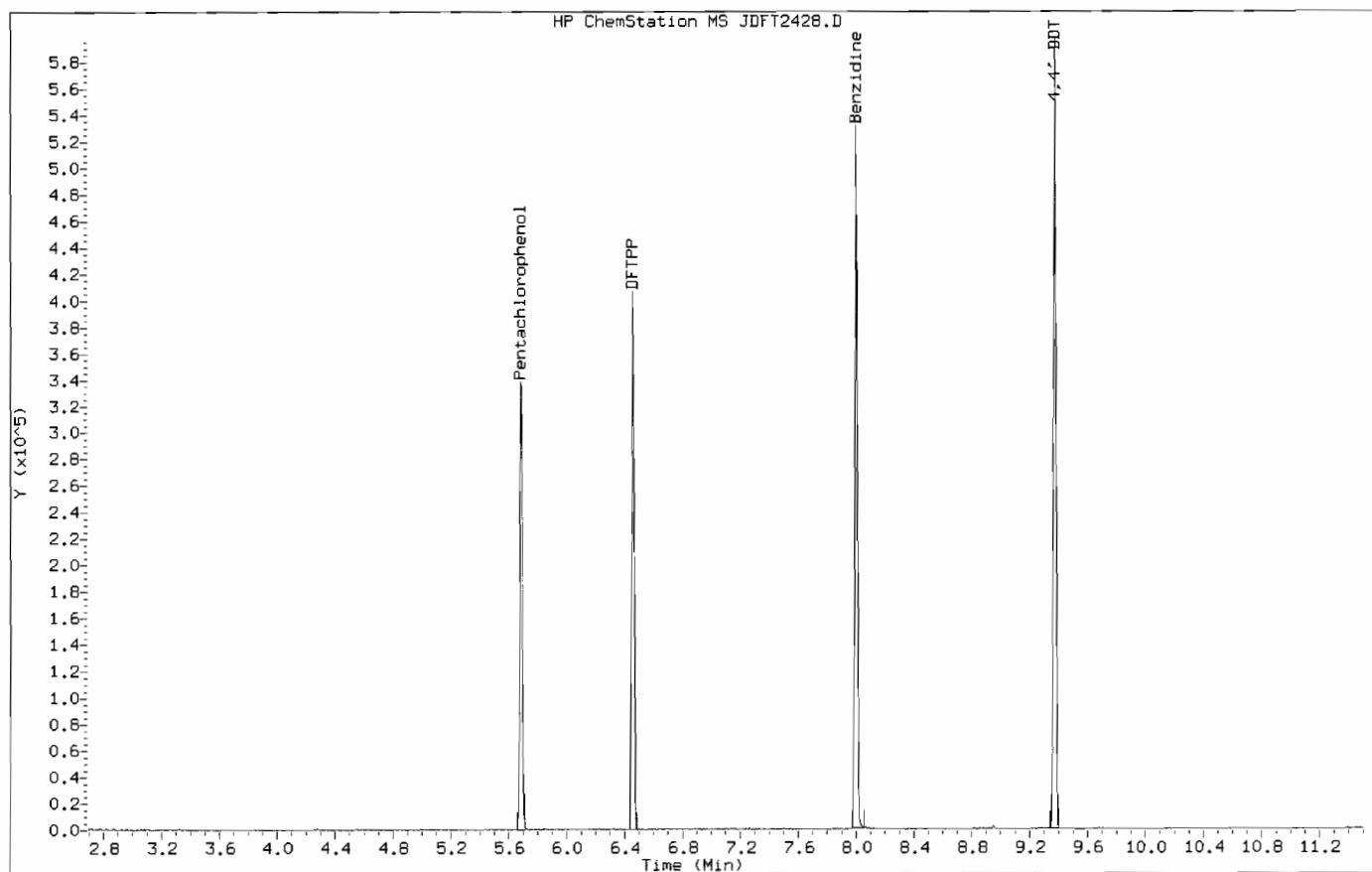
6 4,4'-DDE (Undetected)



## DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

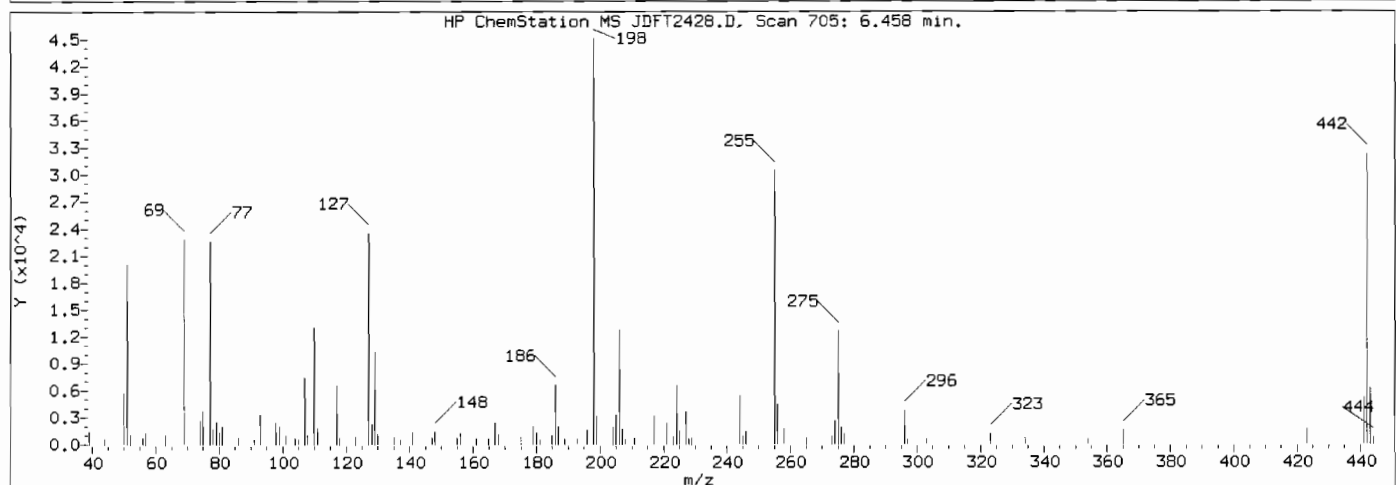
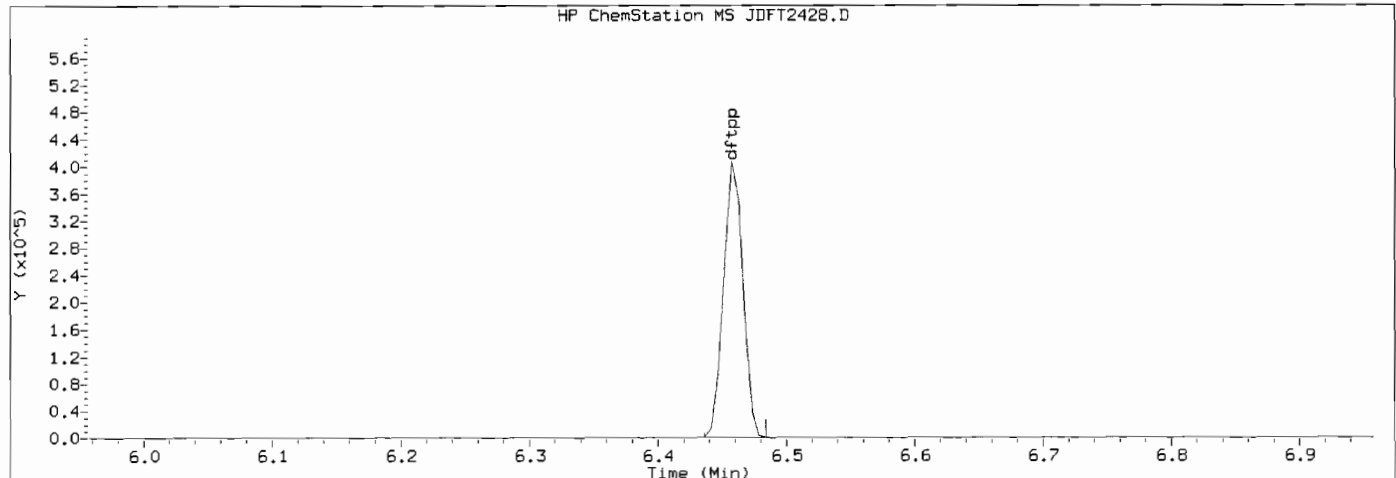
Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01\BNA LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D  
Method Used: \\Slsvr01\BNA LAB\MSJ.i\J100415A.B\sw846tun.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: JW/MAK  
Sample Info: DFTPP DFTPP  
Misc Info: SV0128-10



Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D  
 Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m Inst: MSJ  
 Injection Date: 15-APR-2010 10:55 Operator: JW/MAK  
 Sample Info: DFTPP DFTPP  
 Misc Info: SV0128-10



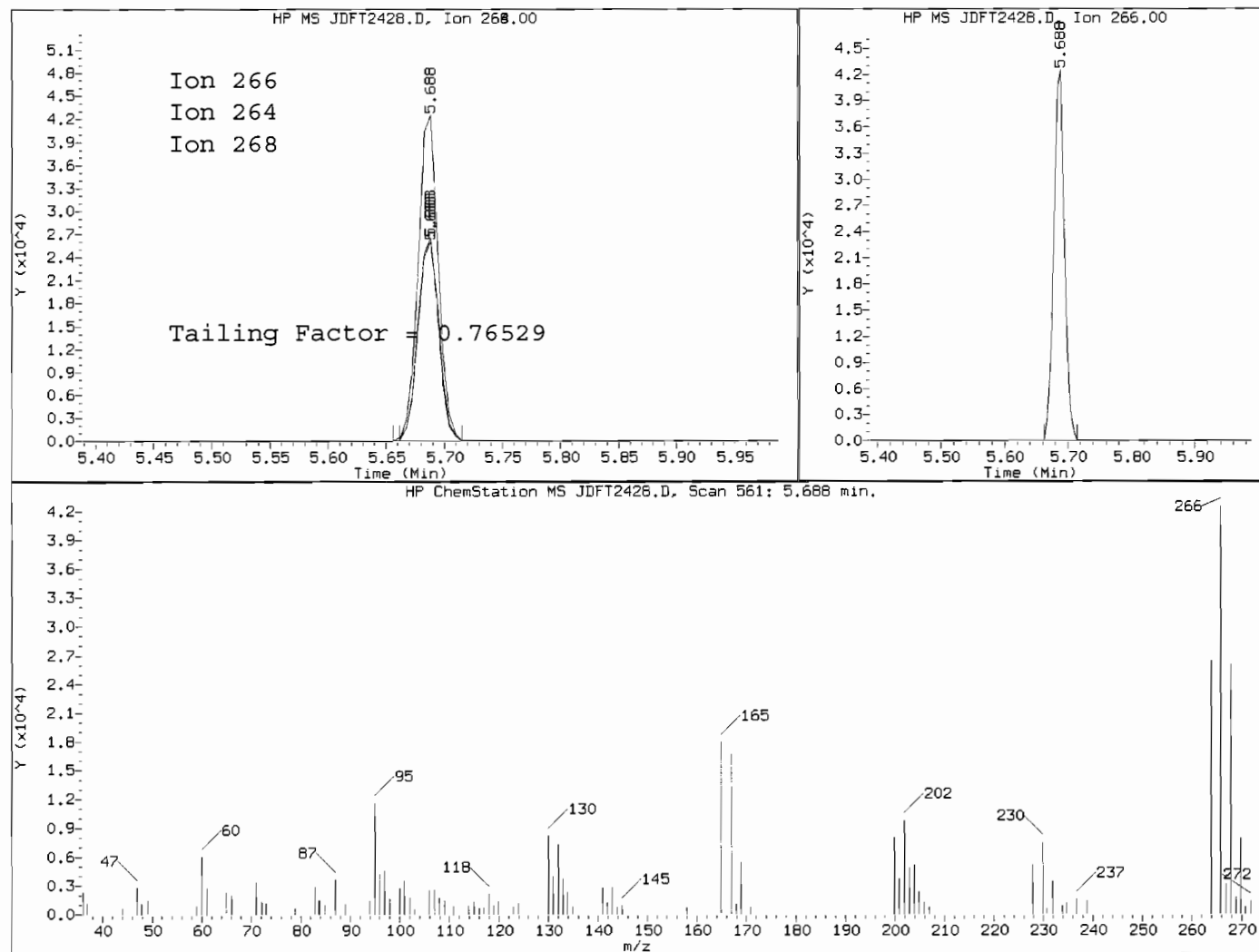
DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	44.16		PASS
68	Less than 2% of mass 69	0.00	( 0.00)	PASS
69	Mass 69 relative abundance	51.06		PASS
70	Less than 2% of mass 69	0.00	( 0.00)	PASS
127	40 - 60% of mass 198	50.77		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	6.90		PASS
275	10 - 30% of mass 198	28.08		PASS
365	Greater than 1% of mass 198	3.39		PASS
441	Present, but less than mass 443	12.01	( 81.65)	PASS
442	Greater than 40% of mass 198	75.18		PASS
443	17 - 23% of mass 442	14.71	( 19.56)	PASS



Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
 Method Used: \\Slsvr01\BNA LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
 Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
 Sample Info: SW846-T1 DFTPP  
 Misc Info: SV0128-10



## Pentachlorophenol

=====  
 Exp. RT = 5.680  
 Found RT = 5.688

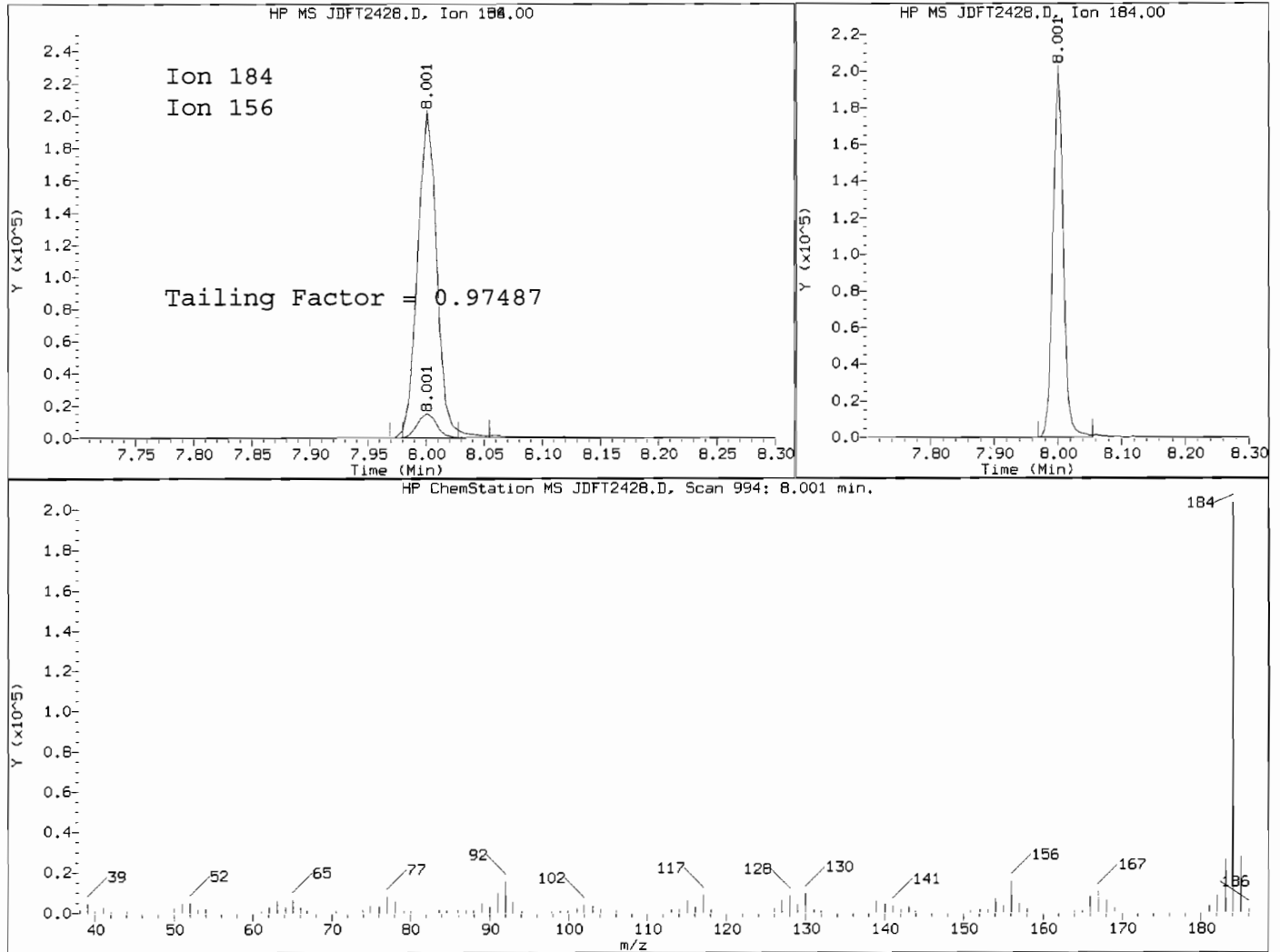
Mass	Area	Ratio
266	51016	100.00
264	32498	63.70
268	32578	63.86

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.765 Maximum Allowed = 5.0

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
 Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
 Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
 Sample Info: SW846-T1 DFTPP  
 Misc Info: SV0128-10



Benzidine

=====

Exp. RT = 8.000

Found RT = 8.001

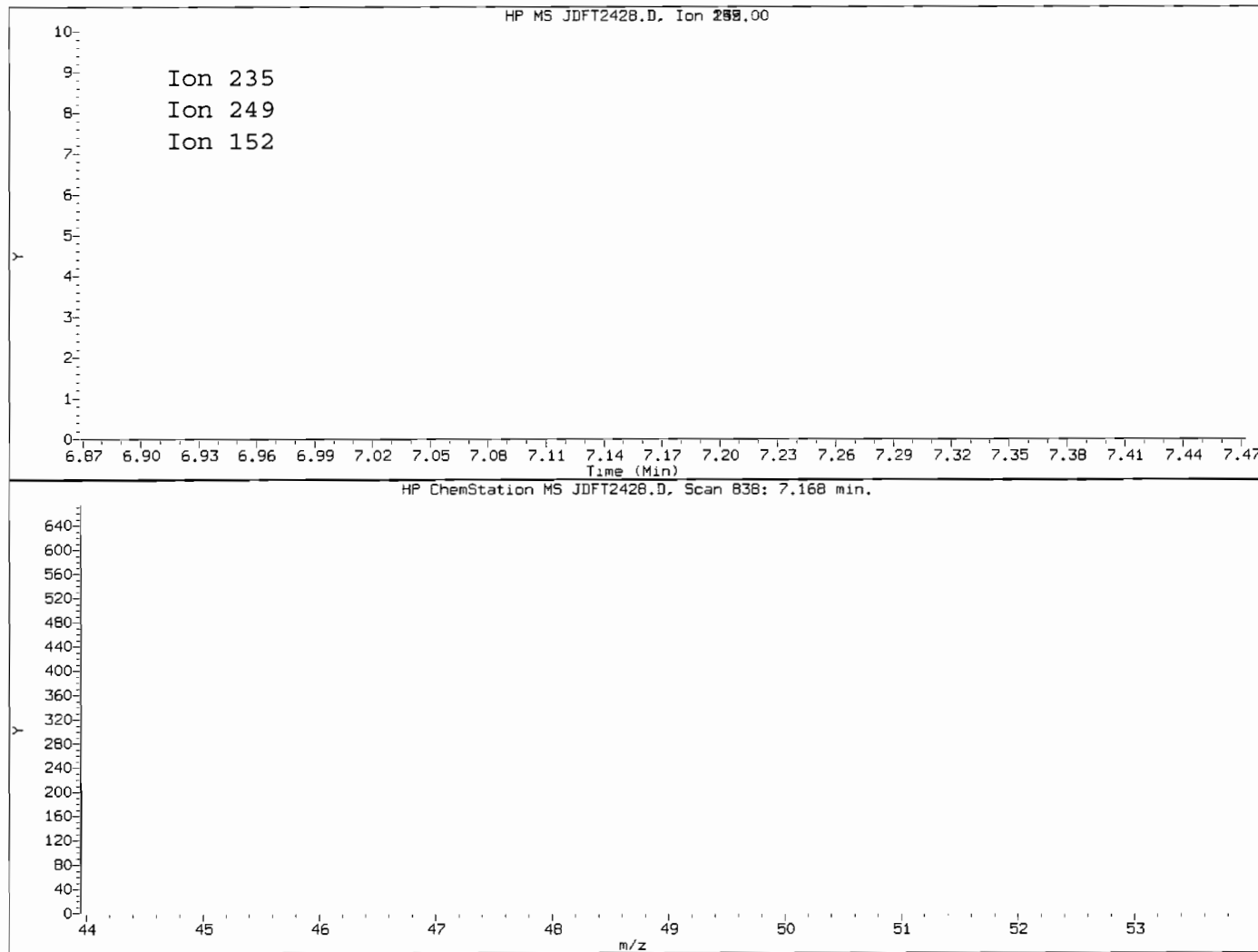
Mass	Area	Ratio
184	233452	100.00
156	17379	7.44

Tailing factor for Benzidine OK

Tail Factor = 0.975 Maximum Allowed = 3.0

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



4,4'-DDD

=====

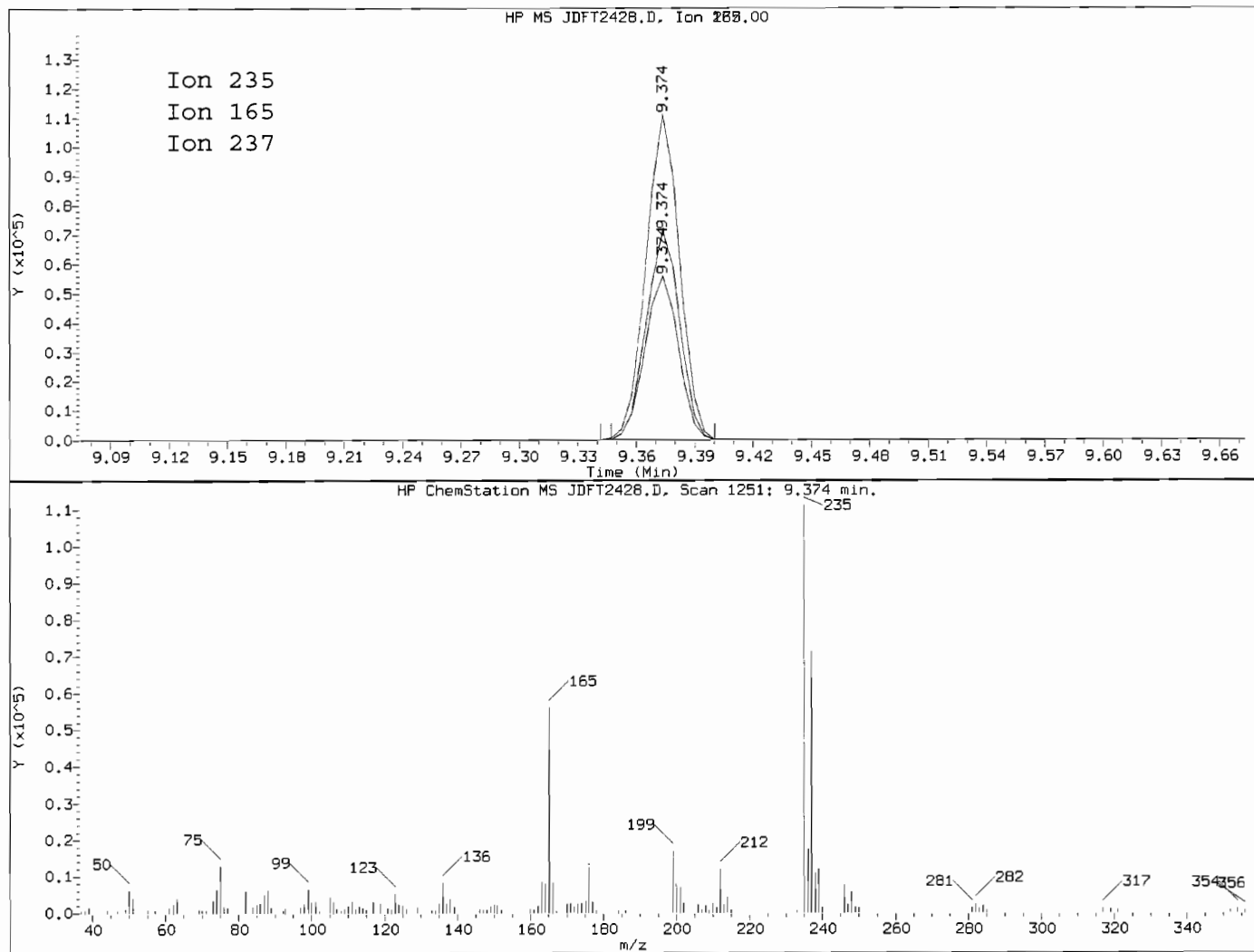
Exp. RT = 7.170

Found RT = 0.000

Mass	Area	Ratio
----	----	-----
235	0	0.00
249	0	0.00
152	0	0.00

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



4,4'-DDT

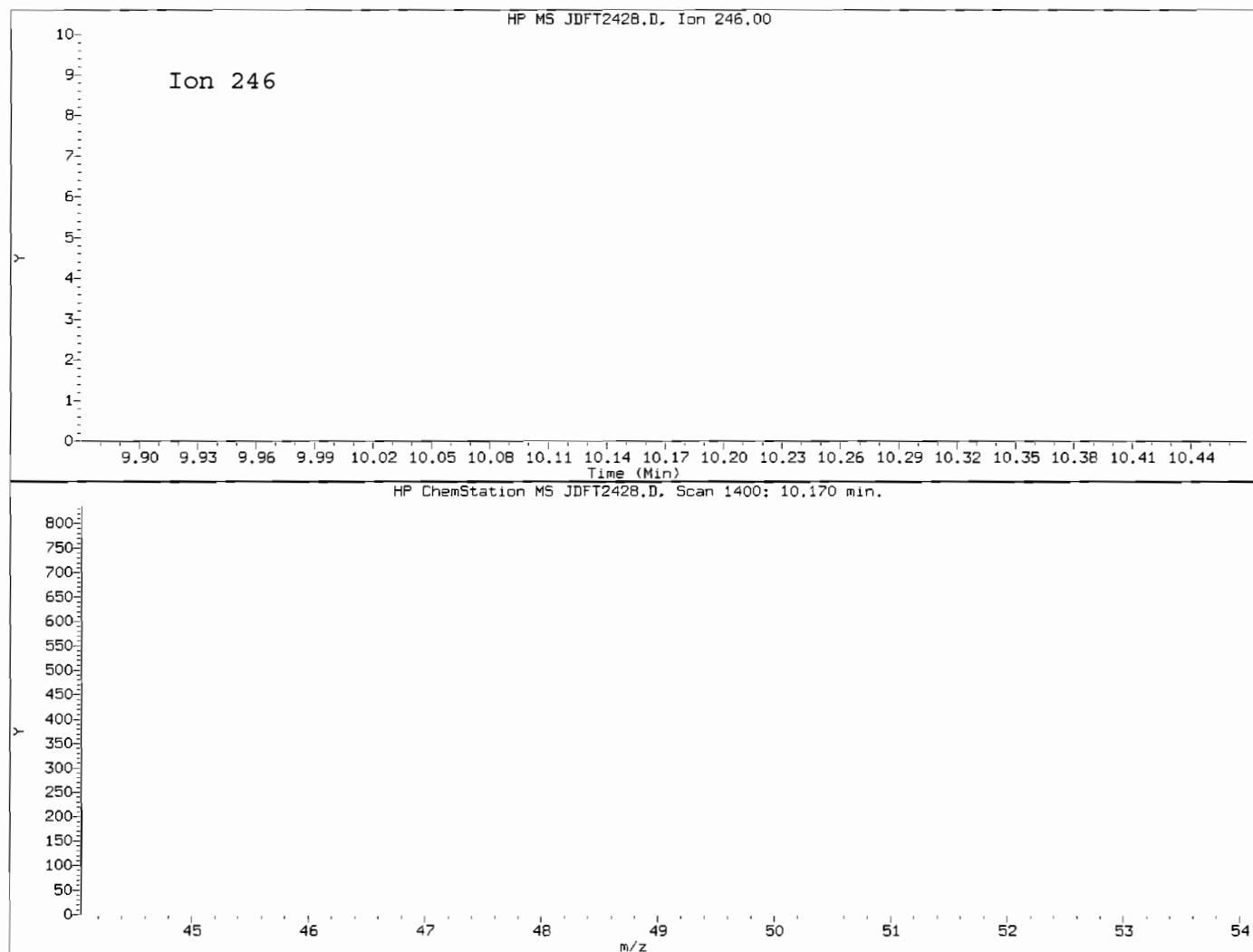
=====

Exp. RT = 9.370  
Found RT = 9.374

Mass	Area	Ratio
235	132015	100.00
165	66689	50.52
237	84694	64.16

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



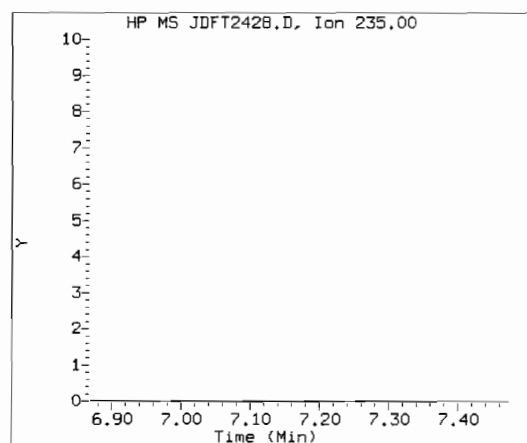
4,4'-DDE

=====

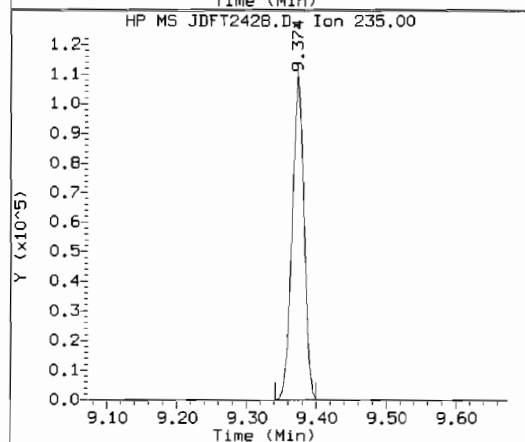
Exp. RT = 10.170

Found RT = 0.000

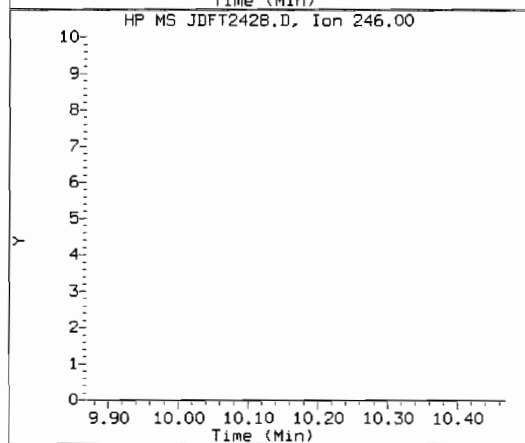
Mass	Area	Ratio
246	0	0.00



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 0.000  
 Area: 0



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 9.374  
 Area: 132015



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 0.000  
 Area: 0

## DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	132015			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

\*\*\*\*\*  
 TUNE SAMPLE \*\*\* PASSED \*\*\* DDT BREAKDOWN TEST  
 \*\*\*\*\*

Report Date : 15-Apr-2010 15:59

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TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
 End Cal Date : 15-APR-2010 13:20  
 Quant Method : ISTD  
 Target Version : 4.10  
 Integrator : HP RTE  
 Method File : \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Cal Date : 15-Apr-2010 15:58 kuessnerm

## Calibration File Names:

Level 3: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
 Level 4: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2433.D  
 Level 5: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
 Level 6: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2432.D  
 Level 7: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Level 8: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	%RSD
Level 3	Level 4	Level 5	Level 6	Level 7	Level 8							
1 1,4-Dioxane	0.50166	0.51699	0.50693	0.47320	0.47561	0.47926	AVRG		0.49227			3.77264
211 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
2 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
3 Pyridine	1.34926	1.41546	1.36330	1.32550	1.38641	1.37934	AVRG		1.36988			2.28015
4 N-Nitrosodimethylamine	0.73819	0.75456	0.72656	0.72124	0.75341	0.75651	AVRG		0.74174			2.07292
5 Dimethylformamide	0.85935	0.83442	0.80089	0.77542	0.74577	0.76224	AVRG		0.79635			5.50196
6 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
7 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
8 N-Nitrosomethylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
9 Methyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
11 Cyclohexanol	0.92518	0.95841	0.94495	0.96793	0.96109	0.97906	AVRG		0.95610			1.97227
12 N-Nitrosodimethylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
13 Ethyl Methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
14 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000
16 Phenol	1.52802	1.59411	1.58065	1.67794	1.67763	1.71884	AVRG		1.62953			4.47456
17 Aniline	1.19351	1.13211	1.08846	1.10956	1.10924	1.09119	AVRG		1.12068			3.47821

TestAmerica St. Louis

INITIAL CALIBRATION DATA

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 Integrator : HP RTE  
 Method file : \\slvr01\BNA LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	RSD	or R <sup>2</sup>
18 Pentachloroethane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
19 Bis(2-chloroethyl) ether	1.11687	1.20209	1.16581	1.22598	1.20467	1.26203	AVRG		1.19624			4.18697	
20 2-Chlorophenol	1.28353	1.31295	1.31938	1.38264	1.39427	1.41519	AVRG		1.35133			3.91473	
21 1,3-Dichlorobenzene	1.40895	1.44956	1.45717	1.46354	1.47161	1.52061	AVRG		1.46190			2.47062	
23 1,4-Dichlorobenzene	1.46735	1.50581	1.50527	1.56874	1.53947	1.58179	AVRG		1.52807			2.83331	
24 Benzenethiol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
25 Benzyl Alcohol	0.78854	0.85945	0.84678	0.86202	0.81183	0.87449	AVRG		0.84052			3.95995	
26 1,2-Dichlorobenzene	1.33078	1.36713	1.40991	1.44930	1.41822	1.52818	AVRG		1.41725			4.82465	
27 2-Methylphenol	1.14281	1.19066	1.09828	1.17575	1.11389	1.19197	AVRG		1.15223			3.48870	
28 2,2-oxybis(1-Chloropropane)	1.14647	1.18903	1.16417	1.21543	1.17509	1.22529	AVRG		1.18591			2.55108	
29 3 and 4-Methylphenol	1.33383	1.39041	1.35923	1.48736	1.39360	1.49978	AVRG		1.41070			4.81560	
30 Acetophenone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
31 N-Nitrosopyrrolidine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
32 N-Nitrosodimethylamine	0.90614	0.92344	0.92939	0.93360	0.89081	0.93518	AVRG		0.91976			1.91997	
33 N-Nitrosomorpholine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
34 O-Toluidine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
35 Hexachloroethane	0.55371	0.57407	0.59465	0.58433	0.56888	0.59418	AVRG		0.57830			2.75271	
37 Nitrobenzene	0.42509	0.44124	0.44518	0.44363	0.44072	0.45081	AVRG		0.44111			1.95984	
38 N-Nitrosopiperidine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-
39 Isophorone	0.66504	0.67444	0.71297	0.71566	0.69451	0.72105	AVRG		0.69728			3.34373	
40 2-Nitrophenol	0.18312	0.19080	0.20331	0.22255	0.22664	0.24001	AVRG		0.21107			10.51754	
41 2,4-Dimethylphenol	0.40799	0.40013	0.43222	0.45683	0.45242	0.47612	AVRG		0.43762			6.76507	
42 Bis(2-chloroethoxy)methane	0.35965	0.35524	0.39048	0.39380	0.39196	0.40657	AVRG		0.38462			4.72785	
43 o,o,o-Triethyl-Phosphorothioa	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000	<-



TestAmerica St. Louis

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
 End Cal Date : 15-APR-2010 13:20  
 Quant Method : ISTD  
 Target Version : 4.10  
 Integrator : HP RTE  
 Method file : \\slsvr01\BNA LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	%RSD
44 Benzoic Acid	0.18479	0.22375	0.24092	0.24860	0.23872	0.24207	AVRG		0.22981			10.24091
45 2,4-Dichlorophenol	0.29515	0.28283	0.31755	0.32234	0.31858	0.33426	AVRG		0.31178			6.10380
46 a,a-Dimethyl-phenethylamine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
47 1,2,4-Trichlorobenzene	0.32104	0.32428	0.34887	0.35116	0.35661	0.36739	AVRG		0.34489			5.33372
49 4-Chlorobenzeneethiol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
50 Naphthalene	0.99228	1.01315	1.08203	1.09025	1.11968	1.15526	AVRG		1.07544			5.79010
51 4-Chloroaniline	0.42767	0.43415	0.46997	0.48478	0.48747	0.51796	AVRG		0.47034			7.30397
52 2,6-Dichlorophenol	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
53 Hexachloropropene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
54 Hexachlorobutadiene	0.21392	0.24101	0.24657	0.23661	0.24261	0.24994	AVRG		0.23844			5.39382
55 Benzothiazole	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
56 Caprolactam	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
57 n-Nitrosodi-n-butylamine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
58 p-Phenylenediamine	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
59 4-Chloro-3-Methylphenol	0.34150	0.38092	0.36953	0.37364	0.36074	0.38374	AVRG		0.36835			4.21144
60 p-Chlorophenyl methyl sulfide	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
61 Safrole	0.69268	0.75781	0.76331	0.77904	0.78424	0.83307	AVRG		0.76836			5.94071
62 2-Methylnaphthalene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
63 Phthalic anhydride	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
64 cis-Isosafrole	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
65 1,2,4,5-Tetrachlorobenzene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
66 Hexachlorocyclopentadiene	0.38268	0.43394	0.49064	0.48092	0.50999	0.52150	AVRG		0.46994			11.14697
67 2,4,6-Trichlorophenol	0.38826	0.41020	0.43969	0.44671	0.45327	0.46937	AVRG		0.43458			6.88251
68 2,4,5-Trichlorophenol	0.44294	0.46350	0.48638	0.49628	0.49729	0.50643	AVRG		0.48214			5.01342

Report Date : 15-Apr-2010 15:59

TestAmerica St. Louis

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
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 Quant Method : ISTD  
 Target Version : 4.10  
 Integrator : HP RTE  
 Method file : \\SLSVR01\BNA LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	ml	m2	%RSD
70 trans-Isosafrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
71 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
72 2-Chloronaphthalene	1.07524	1.08957	1.15145	1.17281	1.21820	1.23715	AVRG		1.15740			5.68942
73 2-Nitroaniline	0.39902	0.42092	0.43194	0.43865	0.43444	0.43634	AVRG		0.42689			3.50989
74 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
75 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
76 Dimethylphthalate	1.28919	1.35600	1.44690	1.42521	1.45893	1.46807	AVRG		1.40738			5.00694
77 1,3-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
78 N-(hydroxymethyl) phthalimide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
79 Acenaphthylene	1.66597	1.72169	1.80083	1.88153	1.90333	1.94377	AVRG		1.81952			6.01082
80 2,6-Dinitrofluorene	0.28535	0.31019	0.32914	0.33455	0.33740	0.34450	AVRG		0.32352			6.80144
81 3-Nitroaniline	0.29494	0.31977	0.32237	0.33967	0.34012	0.34309	AVRG		0.32666			5.63216
83 Acenaphthene	1.09956	1.15763	1.17056	1.24978	1.28572	1.31195	AVRG		1.21253			6.81746
84 2,4-Dinitrophenol	10060	29770	61631	147689	191202	249943	LNIR	0.11304	0.27414			0.99974
85 4-Nitrophenol	0.26292	0.28348	0.31134	0.29297	0.27855	0.28446	AVRG		0.28562			5.61746
86 Dibenzofuran	1.66158	1.78025	1.77379	1.89669	1.93884	1.99062	AVRG		1.84030			6.67536
87 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
88 2,4-Dinitrofluorene	0.37753	0.41877	0.42544	0.45201	0.45347	0.46235	AVRG		0.43159			7.30223
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
90 2-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
91 Phenyl sulfide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
92 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
93 Diethylphthalate	1.26137	1.32204	1.41676	1.39918	1.40863	1.43842	AVRG		1.37440			4.95556
94 Fluorene	1.26979	1.37305	1.43660	1.45957	1.47519	1.50825	AVRG		1.42041			6.09222

Start Cal Date : 15-APR-2010 11:13  
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Quant Method : ISTD  
Target Version : 4.10  
Integrator : HP RTE  
Method file : \\slsvr01\BNA LAB\MSJ.1\J100415A.B\8270J\_625.m  
Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	%RSD
95 4-Chlorophenyl-phenylether	0.66502	0.69599	0.73283	0.75704	0.77050	0.79630	AVRG		0.73628			6.63099
96 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
98 4-Nitroaniline	0.28456	0.32558	0.32491	0.34674	0.34293	0.34202	AVRG		0.32779			7.05362
99 4,6-Dinitro-2-methylphenol	0.12570	0.15270	0.16351	0.17611	0.18030	0.18979	AVRG		0.16469			14.02911
100 N-Nitrosodiphenylamine	0.44283	0.48192	0.47288	0.51770	0.53297	0.55714	AVRG		0.50091			8.46571
101 tri-n-butylphosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
102 Azobenzene	0.70166	0.73573	0.74662	0.73935	0.75782	0.79010	AVRG		0.74521			3.88782
103 Benal Chloride	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
105 Sulfotepp	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
106 Diallate (peak 1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
107 1,3,5-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
108 Phorate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
109 4-Bromophenyl-phenylether	0.20145	0.22241	0.22665	0.23754	0.24416	0.25161	AVRG		0.23064			7.77033
110 Phenacetin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
111 Diallate (peak 2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
112 Hexachlorobenzene	0.22007	0.22725	0.23217	0.24196	0.24730	0.25901	AVRG		0.23796			5.98744
113 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
114 Atrazine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
115 tris(2-chloroethyl)phosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
116 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
117 Pentachlorophenol	0.14955	0.16261	0.16611	0.18618	0.18863	0.19856	AVRG		0.17527			10.66134
118 Promamide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-
119 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			0.000e+000 <-

TestAmerica St. Louis

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
 End Cal Date : 15-APR-2010 13:20  
 Quant Method : ISTD  
 Target Version : 4.10  
 Integrator : HP RTE  
 Method file : \\slsvr01\BNA LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	or R <sup>2</sup>
120 Phenyl disulfide	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
122 Phenanthrene	0.97494	1.00197	1.04811	1.08257	1.08699	1.13091	AVRG		1.05458			5.52014
123 Disulfoton	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
124 Anthracene	0.99747	1.03792	1.07057	1.11220	1.13075	1.14508	AVRG		1.08233			5.30539
125 Dinoseb	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
126 Carbazole	0.85614	0.94213	0.96731	1.00656	1.01623	1.03062	AVRG		0.96983			6.66579
127 Phenyl sulfone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
128 Methyl Parathion	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
129 Di-n-Butylphthalate	1.04235	1.13033	1.19791	1.23974	1.26246	1.30198	AVRG		1.19580			7.97635
130 Parathion	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
131 4-Nitroquinoline-1-oxide	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
132 Methapyrilene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
133 Isodrin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
210 Octachlorostyrene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
134 Fluoranthene	0.95938	1.08295	1.14351	1.17783	1.18474	1.21517	AVRG		1.12727			8.32193
135 Benzidine	0.49688	0.51228	0.49531	0.49196	0.47889	0.45898	AVRG		0.48905			3.72160
212 2,2'-Dichlorobenzil	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
136 Bis (4-chlorophenyl) disulfid	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
137 Pyrene	0.99311	1.05445	1.10960	1.12299	1.16379	1.19349	AVRG		1.10624			6.60524
138 4-chlorophenyl sulfone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
140 Aramite (peak 1)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
141 Kepone	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
142 Aramite (peak 2)	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-
143 p-(Dimethylamino)azobenzene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			<-

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TestAmerica St. Louis  
INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
End Cal Date : 15-APR-2010 13:20  
Quant Method : ISTD  
Target Version : 4.10  
Integrator : HP RTE  
Method file : \\slvr01\BNA LAB\MSJ.1\J100415A.B\8270J\_625.m  
Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients	m1	m2	%RSD
144 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
145 3,3'-Dimethylbenzidine	0.54421	0.59248	0.55829	0.58920	0.57953	0.56254	AVRG		0.57104			3.33753
146 Butylbenzylphthalate	0.43768	0.46875	0.49951	0.51825	0.52523	0.54890	AVRG		0.49972			8.11451
147 Acrylamide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
148 2-Acetylaminofluorene(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
149 Fampbur	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
150 Benzo(a)Anthracene	0.93227	0.97640	1.02366	1.02281	1.03588	1.06197	AVRG		1.00883			4.62477
151 4,4'-Methylenebis(2-Chloroanil	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
152 3,3'-Dichlorobenzidine	0.37529	0.40827	0.44450	0.45818	0.46774	0.47894	AVRG		0.43882			9.01379
154 Chrysene	0.94845	0.98846	1.01876	1.04223	1.04760	1.07943	AVRG		1.02082			4.57363
155 bis(2-ethylhexyl) Phthalate	0.57103	0.63364	0.68901	0.72385	0.73882	0.76304	AVRG		0.68656			10.52845
M 156 Toluenediamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
157 Triethylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
158 Di-n-octylphthalate	0.98114	1.12511	1.23648	1.29312	1.27797	1.32717	AVRG		1.20683			10.83432
159 1,2-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
160 Benzo(b) fluoranthene	0.98330	1.05825	1.08381	1.12281	1.11269	1.17094	AVRG		1.08863			5.89037
161 Benzo(k) fluoranthene	1.08905	1.13940	1.24580	1.22604	1.24792	1.22818	AVRG		1.19606			5.51485
162 7,12-Dimethylbenz(a) anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
163 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
164 N,N-Dimethylamine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
165 Benzo(a)pyrene	0.96037	1.02046	1.09336	1.11153	1.12158	1.14717	AVRG		1.07594			6.58632
167 Carbofuran Phenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-
168 2,3- and 3,5-Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000			<-

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INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
End Cal Date : 15-APR-2010 13:20  
Quant Method : ISTD  
Target Version : 4.10  
Integrator : HP RTE  
Method file : \\slsvr01\BNA LAB\MSJ.i\J100415A.B\8270J\_625.m  
Cal Date : 15-Apr-2010 15:58 kuessnerm

Compound	10.0000	20.0000	50.0000	80.0000	120.0000	160.0000	Curve	b	Coefficients		\$RSD
	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8			m1	m2	or R <sup>2</sup>
169 3-methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
170 2,6- and 2,4-Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
171 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
172 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
173 Indeno(1,2,3-cd)pyrene	0.98171	1.02336	1.21599	1.22942	1.29613	1.36891	AVRG		1.18592		12.87458
174 Dibenzo(a,h)anthracene	0.86719	0.89126	1.06673	1.11340	1.16849	1.23317	AVRG		1.05671		14.05170
175 Dibenzo(e,a) Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
176 n-tridecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
177 Benzo(g,h,i)perylene	0.86248	0.88249	1.02277	1.03936	1.07625	1.08274	AVRG		0.99435		9.77693
179 Phthalic Acid	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
180 n-Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
M 181 Isosafrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
\$ 10 2-Fluorophenol	1.13800	1.16331	1.13858	1.17132	1.12450	1.14713	AVRG		1.14714		1.51753
\$ 15 Phenol-d5	1.37377	1.45823	1.43102	1.51590	1.49202	1.53436	AVRG		1.46755		4.04455
\$ 36 Nitrobenzene-d5	0.42824	0.44312	0.45238	0.4672	0.42764	0.45281	AVRG		0.44182		2.56759
\$ 69 2-Fluorobiphenyl	1.31266	1.36070	1.42192	1.44742	1.50016	1.52426	AVRG		1.42785		5.66537
\$ 104 2,4,6-Tribromophenol	0.09366	0.11300	0.11027	0.12249	0.12521	0.12999	AVRG		0.11577		11.35148
\$ 139 Terphenyl-d14	0.76387	0.80261	0.84744	0.8591	0.88291	0.93194	AVRG		0.84761		6.97620
\$ 178 2,4,6-Trichlorophenol-d2	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2010 11:13  
End Cal Date : 15-APR-2010 13:20  
Quant Method : ISTD  
Target Version : 4.10  
Integrator : HP RTE  
Method file : \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
Cal Date : 15-Apr-2010 15:58 kuessnerm

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

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## COMPOUND LISTING

Method file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Quant Method : ISTD Target Version : 4.10  
 Last Update : 15-Apr-2010 15:58 Number of Cpnds : 184  
 Data Type : MS DATA

Global Integrator : HP RTE

Chromat Events	Values
-----	-----
Initial:Thresh Units	0.000000
Initial:Area Thresh	10000.000000
Initial:Max Peaks	500.000000
Initial:Bunching	1.000000
Initial:Smoothing	1.000000
Initial:Start Thresh	0.507000
Initial:Stop Thresh	0.000000
Initial:Baseline Reset	5.000000
Initial:Set Valley	100.000000

Compound	RT	RT Window	RF	Mass
1 1,4-Dioxane	3.046	2.646-3.446	4.92e-001	88.00
	3.051	2.651-3.451		58.00
	3.051	2.651-3.451		43.00
211 1-Methylnaphthalene	7.049	6.649-7.449		142.00
	7.049	6.649-7.449		141.00
	7.049	6.649-7.449		115.00
2 Methyl methacrylate	2.973	2.573-3.373		69.00
	2.973	2.573-3.373		41.00
	2.973	2.573-3.373		39.00
3 Pyridine	3.447	3.047-3.847	1.37e+000	79.00
	3.441	3.041-3.841	7.42e-001	52.00
4 N-Nitrosodimethylamine	3.452	3.052-3.852		74.00
	3.452	3.052-3.852		42.00
	3.452	3.052-3.852	7.96e-001	44.00
5 Dimethylformamide	3.885	3.485-4.285		44.00
	3.879	3.479-4.279		73.00
	3.885	3.485-4.285		42.00
6 Ethyl methacrylate	3.753	3.353-4.153		69.00
	3.753	3.353-4.153		41.00
	3.753	3.353-4.153		39.00
7 2-Picoline	4.032	3.632-4.432		93.00
	4.032	3.632-4.432		66.00
	4.032	3.632-4.432		92.00
8 N-Nitrosomethylethylami	4.160	3.760-4.560		88.00
	4.160	3.760-4.560		42.00
	4.160	3.760-4.560		43.00
9 Methyl methanesulfonate	4.411	4.011-4.811		80.00
	4.411	4.011-4.811		79.00
	4.411	4.011-4.811		65.00



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## COMPOUND LISTING

Method file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

Compound	RT	RT Window	RF	Mass
\$ 10 2-Fluorophenol	4.584	4.184-4.984	1.15e+000	112.00
	4.584	4.184-4.984		64.00
	4.584	4.184-4.984		63.00
11 Cyclohexanol	4.675	4.275-5.075	9.56e-001	57.00
	4.675	4.275-5.075		82.00
	4.675	4.275-5.075		67.00
12 N-Nitrosodiethylamine	4.705	4.305-5.105		102.00
	4.705	4.305-5.105		44.00
	4.705	4.305-5.105		57.00
13 Ethyl Methanesulfonate	4.929	4.529-5.329		79.00
	4.929	4.529-5.329		109.00
	4.929	4.529-5.329		97.00
14 Benzaldehyde	5.147	4.747-5.547		77.00
	5.147	4.747-5.547		106.00
	5.147	4.747-5.547		51.00
\$ 15 Phenol-d5	5.257	4.857-5.657	1.47e+000	99.00
	5.257	4.857-5.657		42.00
	5.257	4.857-5.657		71.00
16 Phenol	5.263	4.863-5.663	1.63e+000	94.00
	5.263	4.863-5.663		65.00
	5.263	4.863-5.663		66.00
17 Aniline	5.300	4.900-5.700	1.12e+000	93.00
	5.300	4.900-5.700		66.00
	5.300	4.900-5.700		65.00
18 Pentachloroethane	5.255	4.855-5.655		117.00
	5.255	4.855-5.655		119.00
	5.255	4.855-5.655		167.00
19 Bis(2-chloroethyl) ether	5.327	4.927-5.727	1.20e+000	93.00
	5.327	4.927-5.727		63.00
	5.327	4.927-5.727		95.00
20 2-Chlorophenol	5.385	4.985-5.785	1.35e+000	128.00
	5.380	4.980-5.780		64.00
	5.385	4.985-5.785		130.00
21 1,3-Dichlorobenzene	5.482	5.082-5.882	1.46e+000	146.00
	5.482	5.082-5.882		148.00
	5.482	5.082-5.882		111.00
* 22 1,4-Dichlorobenzene-d4	5.508	5.108-5.908		152.00
	5.508	5.108-5.908		150.00
	5.508	5.108-5.908		115.00
23 1,4-Dichlorobenzene	5.519	5.119-5.919	1.53e+000	146.00
	5.519	5.119-5.919		148.00
	5.519	5.119-5.919		111.00
24 Benzenethiol	4.845	4.445-5.245		110.00
	4.845	4.445-5.245		66.00
	4.845	4.445-5.245		84.00

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## COMPOUND LISTING

Method file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

Compound	RT	RT Window	RF	Mass
25 Benzyl Alcohol	5.620	5.220-6.020	8.41e-001	108.00
	5.620	5.220-6.020		79.00
	5.620	5.220-6.020		77.00
26 1,2-Dichlorobenzene	5.663	5.263-6.063	1.42e+000	146.00
	5.663	5.263-6.063		148.00
	5.663	5.263-6.063		111.00
27 2-Methylphenol	5.690	5.290-6.090	1.15e+000	108.00
	5.695	5.295-6.095		107.00
	5.690	5.290-6.090		79.00
28 2,2-oxybis(1-Chloroprop	5.711	5.311-6.111	1.19e+000	45.00
	5.711	5.311-6.111		77.00
	5.711	5.311-6.111		121.00
29 3 and 4-Methylphenol	5.802	5.402-6.202	1.41e+000	107.00
	5.802	5.402-6.202		108.00
	5.802	5.402-6.202		79.00
30 Acetophenone	5.767	5.367-6.167		105.00
	5.767	5.367-6.167		77.00
	5.767	5.367-6.167		120.00
31 N-Nitrosopyrrolidine	5.773	5.373-6.173		100.00
	5.773	5.373-6.173		41.00
	5.773	5.373-6.173		42.00
32 N-Nitrosodinpropylamine	5.845	5.445-6.245	9.20e-001	70.00
	5.845	5.445-6.245		42.00
	5.845	5.445-6.245		101.00
33 N-Nitrosomorpholine	5.784	5.384-6.184		116.00
	5.784	5.384-6.184		56.00
	5.784	5.384-6.184		86.00
34 O-Toluidine	5.805	5.405-6.205		106.00
	5.805	5.405-6.205		107.00
35 Hexachloroethane	5.893	5.493-6.293	5.78e-001	117.00
	5.893	5.493-6.293		201.00
	5.893	5.493-6.293		199.00
\$ 36 Nitrobenzene-d5	5.946	5.546-6.346	4.42e-001	82.00
	5.946	5.546-6.346		128.00
	5.946	5.546-6.346		54.00
37 Nitrobenzene	5.962	5.562-6.362	4.41e-001	77.00
	5.962	5.562-6.362		123.00
	5.962	5.562-6.362		65.00
38 N-Nitrosopiperidine	6.019	5.619-6.419		114.00
	6.019	5.619-6.419		42.00
	6.019	5.619-6.419		55.00
39 Isophorone	6.133	5.733-6.533	6.97e-001	82.00
	6.133	5.733-6.533		95.00
	6.133	5.733-6.533		138.00
40 2-Nitrophenol	6.192	5.792-6.592	2.11e-001	139.00
	6.192	5.792-6.592		65.00
	6.192	5.792-6.592		109.00

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## COMPOUND LISTING

Method file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

Compound	RT	RT Window	RF	Mass
41 2,4-Dimethylphenol	6.192	5.792-6.592	4.38e-001	107.00
	6.192	5.792-6.592		121.00
	6.192	5.792-6.592		122.00
42 Bis(2-chloroethoxy)meth	6.267	5.867-6.667	3.85e-001	93.00
	6.267	5.867-6.667		95.00
	6.267	5.867-6.667		123.00
43 o,o,o-Triethyl-Phosphor	6.216	5.816-6.616		198.00
	6.216	5.816-6.616		121.00
	6.216	5.816-6.616		93.00
44 Benzoic Acid	6.320	5.920-6.720	2.30e-001	122.00
	6.320	5.920-6.720		105.00
	6.320	5.920-6.720		77.00
45 2,4-Dichlorophenol	6.368	5.968-6.768	3.12e-001	162.00
	6.368	5.968-6.768		164.00
	6.363	5.963-6.763		98.00
46 a,a-Dimethyl-phenethyla	6.307	5.907-6.707		58.00
	6.307	5.907-6.707		91.00
	6.432	6.032-6.832		180.00
* 48 Naphthalene-d8	6.432	6.032-6.832	3.45e-001	182.00
	6.432	6.032-6.832		145.00
	6.475	6.075-6.875		136.00
49 4-Chlorobenzenethiol	6.470	6.070-6.870		68.00
	6.470	6.070-6.870		54.00
	5.908	5.508-6.308		144.00
50 Naphthalene	5.908	5.508-6.308	1.08e+000	109.00
	5.908	5.508-6.308		108.00
	6.491	6.091-6.891		128.00
51 4-Chloroaniline	6.491	6.091-6.891	4.70e-001	129.00
	6.491	6.091-6.891		127.00
	6.534	6.134-6.934		127.00
52 2,6-Dichlorophenol	6.534	6.134-6.934		129.00
	6.494	6.094-6.894		65.00
	6.494	6.094-6.894		162.00
53 Hexachloropropene	6.494	6.094-6.894		164.00
	6.526	6.126-6.926		63.00
	6.526	6.126-6.926		213.00
54 Hexachlorobutadiene	6.526	6.126-6.926	2.38e-001	215.00
	6.603	6.203-7.003		211.00
	6.603	6.203-7.003		225.00
55 Benzothiazole	6.603	6.203-7.003		223.00
	6.633	6.233-7.033		227.00
	6.633	6.233-7.033		135.00
56 Caprolactam	6.633	6.233-7.033		108.00
	6.723	6.323-7.123		69.00
	6.723	6.323-7.123		55.00
	6.723	6.323-7.123		113.00
				42.00

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
57 n-Nitrosodi-n-butylamin	6.724	6.324-7.124		84.00
	6.724	6.324-7.124		57.00
	6.724	6.324-7.124		41.00
58 p-Phenylenediamine	6.740	6.340-7.140	3.68e-001	108.00
	6.740	6.340-7.140		80.00
59 4-Chloro-3-Methylphenol	6.870	6.470-7.270		107.00
	6.870	6.470-7.270	7.68e-001	144.00
	6.870	6.470-7.270		142.00
60 p-Chlorophenyl methyl s	6.475	6.075-6.875		158.00
	6.475	6.075-6.875	7.68e-001	108.00
	6.475	6.075-6.875		143.00
61 Safrole	6.879	6.479-7.279	7.68e-001	162.00
	6.879	6.479-7.279		104.00
	6.879	6.479-7.279		77.00
62 2-Methylnaphthalene	7.009	6.609-7.409	7.68e-001	142.00
	7.009	6.609-7.409		141.00
63 Phthalic anhydride	6.704	6.304-7.104		104.00
	6.704	6.304-7.104	4.70e-001	76.00
	6.704	6.304-7.104		50.00
64 cis-Isosafrole	7.103	6.703-7.503		162.00
	7.103	6.703-7.503	4.35e-001	104.00
	7.103	6.703-7.503		131.00
65 1,2,4,5-Tetrachlorobenz	7.119	6.719-7.519	4.70e-001	216.00
	7.119	6.719-7.519		214.00
	7.119	6.719-7.519		218.00
66 Hexachlorocyclopentadie	7.180	6.780-7.580	4.35e-001	237.00
	7.180	6.780-7.580		235.00
	7.180	6.780-7.580		272.00
67 2,4,6-Trichlorophenol	7.244	6.844-7.644	4.82e-001	196.00
	7.244	6.844-7.644		198.00
	7.244	6.844-7.644		200.00
68 2,4,5-Trichlorophenol	7.276	6.876-7.676	1.43e+000	196.00
	7.276	6.876-7.676		198.00
	7.276	6.876-7.676		200.00
\$ 69 2-Fluorobiphenyl	7.298	6.898-7.698	1.16e+000	172.00
	7.298	6.898-7.698		171.00
	7.280	6.880-7.680		162.00
70 trans-Isosafrole	7.280	6.880-7.680		104.00
	7.280	6.880-7.680		131.00
	7.321	6.921-7.721		154.00
71 Biphenyl	7.321	6.921-7.721		153.00
	7.321	6.921-7.721		152.00
	7.399	6.999-7.799	1.16e+000	162.00
72 2-Chloronaphthalene	7.399	6.999-7.799		164.00
	7.399	6.999-7.799		127.00

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
73 2-Nitroaniline	7.495	7.095-7.895	4.27e-001	65.00
	7.495	7.095-7.895		92.00
	7.501	7.101-7.901		138.00
74 1,4-Naphthoquinone	7.483	7.083-7.883		158.00
	7.483	7.083-7.883		104.00
	7.483	7.083-7.883		102.00
75 1,4-Dinitrobenzene	7.520	7.120-7.920		168.00
	7.520	7.120-7.920		75.00
	7.520	7.120-7.920		50.00
76 Dimethylphthalate	7.634	7.234-8.034	1.41e+000	163.00
	7.634	7.234-8.034		194.00
	7.634	7.234-8.034		164.00
77 1,3-Dinitrobenzene	7.611	7.211-8.011		168.00
	7.611	7.211-8.011		75.00
	7.611	7.211-8.011		76.00
78 N-(hydroxymethyl) phtha	7.303	6.903-7.703		147.00
	7.303	6.903-7.703		104.00
	7.303	6.903-7.703		76.00
79 Acenaphthylene	7.741	7.341-8.141	1.82e+000	152.00
	7.741	7.341-8.141		151.00
	7.741	7.341-8.141		153.00
80 2,6-Dinitrotoluene	7.709	7.309-8.109	3.24e-001	165.00
	7.703	7.303-8.103		63.00
	7.709	7.309-8.109		89.00
81 3-Nitroaniline	7.832	7.432-8.232	3.27e-001	138.00
	7.832	7.432-8.232		108.00
	7.832	7.432-8.232		92.00
* 82 Acenaphthene-d10	7.858	7.458-8.258		164.00
	7.858	7.458-8.258		162.00
	7.858	7.458-8.258		160.00
83 Acenaphthene	7.885	7.485-8.285	1.21e+000	153.00
	7.885	7.485-8.285		152.00
	7.885	7.485-8.285		154.00
84 2,4-Dinitrophenol	7.906	7.506-8.306	2.74e-001	184.00
	7.901	7.501-8.301		63.00
	7.885	7.485-8.285		154.00
85 4-Nitrophenol	7.933	7.533-8.333	2.86e-001	109.00
	7.933	7.533-8.333		139.00
	7.928	7.528-8.328		65.00
86 Dibenzofuran	8.008	7.608-8.408	1.84e+000	168.00
	8.008	7.608-8.408		139.00
	7.969	7.569-8.369		250.00
87 Pentachlorobenzene	7.969	7.569-8.369		248.00
	7.969	7.569-8.369		252.00
	8.024	7.624-8.424		165.00
88 2,4-Dinitrotoluene	8.024	7.624-8.424	4.32e-001	63.00
	8.024	7.624-8.424		89.00
	8.024	7.624-8.424		

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
89 1-Naphthylamine	8.017	7.617-8.417		143.00
	8.017	7.617-8.417		115.00
90 2-Naphthylamine	8.076	7.676-8.476		143.00
	8.076	7.676-8.476		115.00
91 Phenyl sulfide	7.858	7.458-8.258		186.00
	7.858	7.458-8.258		185.00
	7.858	7.458-8.258		184.00
92 2,3,4,6-Tetrachlorophen	8.076	7.676-8.476		232.00
	8.076	7.676-8.476		230.00
	8.076	7.676-8.476		131.00
93 Diethylphthalate	8.189	7.789-8.589	1.37e+000	149.00
	8.189	7.789-8.589		177.00
	8.189	7.789-8.589		150.00
94 Fluorene	8.291	7.891-8.691	1.42e+000	166.00
	8.291	7.891-8.691		165.00
	8.291	7.891-8.691		167.00
95 4-Chlorophenyl-phenylet	8.259	7.859-8.659	7.36e-001	204.00
	8.259	7.859-8.659		206.00
	8.259	7.859-8.659		141.00
96 Thionazin	8.198	7.798-8.598		107.00
	8.198	7.798-8.598		96.00
	8.198	7.798-8.598		143.00
97 5-Nitro-o-toluidine	8.252	7.852-8.652		152.00
	8.252	7.852-8.652		77.00
	8.252	7.852-8.652		106.00
98 4-Nitroaniline	8.344	7.944-8.744	3.28e-001	138.00
	8.339	7.939-8.739		92.00
	8.339	7.939-8.739		108.00
99 4,6-Dinitro-2-methylphe	8.366	7.966-8.766	1.65e-001	198.00
	8.360	7.960-8.760		105.00
	8.366	7.966-8.766		51.00
100 N-Nitrosodiphenylamine	8.371	7.971-8.771	5.01e-001	169.00
	8.371	7.971-8.771		168.00
	8.371	7.971-8.771		167.00
101 tri-n-butylphosphate	8.257	7.857-8.657		99.00
	8.257	7.857-8.657		155.00
102 Azobenzene	8.392	7.992-8.792	7.45e-001	77.00
	8.392	7.992-8.792		51.00
	8.392	7.992-8.792		105.00
103 Benzal Chloride	24.872	24.472-25.272		125.00
	24.872	24.472-25.272		89.00
\$ 104 2,4,6-Tribromophenol	8.499	8.099-8.899	1.16e-001	330.00
	8.499	8.099-8.899		332.00
	8.499	8.099-8.899		141.00
105 Sulfotepp	8.466	8.066-8.866		97.00
	8.466	8.066-8.866		322.00
	8.466	8.066-8.866		202.00

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
106 Diallate (peak 1)	8.546	8.146-8.946		86.00
	8.546	8.146-8.946		234.00
	8.546	8.146-8.946		43.00
107 1,3,5-Trinitrobenzene	8.535	8.135-8.935		213.00
	8.535	8.135-8.935		75.00
	8.535	8.135-8.935		120.00
108 Phorate	8.556	8.156-8.956		75.00
	8.556	8.156-8.956		97.00
	8.556	8.156-8.956		121.00
109 4-Bromophenyl-phenyleth	8.654	8.254-9.054	2.31e-001	248.00
	8.654	8.254-9.054		250.00
	8.654	8.254-9.054		141.00
110 Phenacetin	8.562	8.162-8.962		108.00
	8.562	8.162-8.962		179.00
	8.562	8.162-8.962		109.00
111 Diallate (peak 2)	8.615	8.215-9.015		86.00
	8.615	8.215-9.015		234.00
	8.615	8.215-9.015		43.00
112 Hexachlorobenzene	8.804	8.404-9.204	2.38e-001	284.00
	8.798	8.398-9.198		142.00
	8.804	8.404-9.204		249.00
113 Dimethoate	8.717	8.317-9.117		87.00
	8.717	8.317-9.117		93.00
	8.717	8.317-9.117		125.00
114 Atrazine	8.726	8.326-9.126		200.00
	8.726	8.326-9.126		58.00
	8.726	8.326-9.126		215.00
115 tris(2-chloroethyl)phos	8.749	8.349-9.149		63.00
	8.749	8.349-9.149		99.00
	8.818	8.418-9.218		169.00
116 4-Aminobiphenyl	8.818	8.418-9.218		168.00
	8.818	8.418-9.218		170.00
	8.937	8.537-9.337	1.75e-001	266.00
117 Pentachlorophenol	8.937	8.537-9.337		264.00
	8.937	8.537-9.337		268.00
118 Pronamide	8.861	8.461-9.261		173.00
	8.861	8.461-9.261		175.00
	8.861	8.461-9.261		145.00
119 Pentachloronitrobenzene	8.936	8.536-9.336		237.00
	8.936	8.536-9.336		142.00
	8.936	8.536-9.336		214.00
120 Phenyl disulfide	8.788	8.388-9.188		218.00
	8.788	8.388-9.188		109.00
	8.788	8.388-9.188		65.00
* 121 Phenanthrene-d10	9.055	8.655-9.455		188.00
	9.049	8.649-9.449		94.00
	9.049	8.649-9.449		80.00

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
122 Phenanthrene	9.076	8.676-9.476	1.05e+000	178.00
	9.076	8.676-9.476		179.00
	9.076	8.676-9.476		176.00
123 Disulfoton	8.973	8.573-9.373		88.00
	8.973	8.573-9.373		97.00
	8.973	8.573-9.373		89.00
124 Anthracene	9.114	8.713-9.514	1.08e+000	178.00
	9.114	8.713-9.514		179.00
	9.114	8.713-9.514		176.00
125 Dinoseb	8.994	8.594-9.394		211.00
	8.994	8.594-9.394		163.00
	8.994	8.594-9.394		147.00
126 Carbazole	9.231	8.831-9.631	9.70e-001	167.00
	9.231	8.831-9.631		166.00
	9.231	8.831-9.631		139.00
127 Phenyl sulfone	9.108	8.708-9.508		125.00
	9.108	8.708-9.508		77.00
	9.108	8.708-9.508		51.00
128 Methyl Parathion	9.288	8.888-9.688		109.00
	9.288	8.888-9.688		125.00
	9.288	8.888-9.688		263.00
129 Di-n-Butylphthalate	9.487	9.087-9.887	1.20e+000	149.00
	9.487	9.087-9.887		150.00
	9.487	9.087-9.887		104.00
130 Parathion	9.598	9.198-9.998		109.00
	9.598	9.198-9.998		97.00
	9.598	9.198-9.998		291.00
131 4-Nitroquinoline-1-oxid	9.646	9.246-10.046		190.00
	9.646	9.246-10.046		128.00
	9.646	9.246-10.046		75.00
132 Methapyrilene	9.689	9.289-10.089		97.00
	9.689	9.289-10.089		58.00
133 Isodrin	9.871	9.471-10.271		193.00
	9.871	9.471-10.271		66.00
	9.871	9.471-10.271		195.00
210 Octachlorostyrene	9.509	9.109-9.909		308.00
	9.509	9.109-9.909		343.00
	9.509	9.109-9.909		154.00
134 Fluoranthene	10.059	9.659-10.459	1.13e+000	202.00
	10.054	9.654-10.454		101.00
	10.054	9.654-10.454		203.00
135 Benzidine	10.139	9.739-10.539	4.89e-001	184.00
	10.139	9.739-10.539		92.00
	10.139	9.739-10.539		185.00
212 2,2'-Dichlorobenzil	9.840	9.440-10.240		139.00
	9.840	9.440-10.240		111.00
	9.840	9.440-10.240		75.00



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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
136 Bis (4-chlorophenyl) di	10.000	9.600-10.400		286.00
	10.000	9.600-10.400		143.00
	10.000	9.600-10.400		108.00
137 Pyrene	10.256	9.856-10.656	1.11e+000	202.00
	10.256	9.856-10.656		200.00
	10.256	9.856-10.656		203.00
138 4-chlorophenyl sulfone	10.070	9.670-10.470		159.00
	10.070	9.670-10.470		111.00
	10.070	9.670-10.470		75.00
\$ 139 Terphenyl-d14	10.342	9.942-10.742	8.48e-001	244.00
	10.342	9.942-10.742		122.00
	10.342	9.942-10.742		212.00
140 Aramite (peak 1)	10.223	9.823-10.623		185.00
	10.223	9.823-10.623		319.00
141 Kepone	10.773	10.373-11.173		272.00
	10.773	10.373-11.173		274.00
	10.773	10.373-11.173		237.00
142 Aramite (peak 2)	10.282	9.882-10.682		185.00
	10.282	9.882-10.682		319.00
143 p- (Dimethylamino) azoben	10.394	9.994-10.794		120.00
	10.394	9.994-10.794		225.00
	10.394	9.994-10.794		77.00
144 Chlorobenzilate	10.421	10.021-10.821		251.00
	10.421	10.021-10.821		139.00
	10.421	10.021-10.821		253.00
145 3,3-Dimethylbenzidine	10.791	10.391-11.191	5.71e-001	212.00
	10.785	10.385-11.185		106.00
146 Butylbenzylphthalate	10.780	10.380-11.180	5.00e-001	149.00
	10.780	10.380-11.180		91.00
	10.780	10.380-11.180		206.00
147 Acrylamide	31.006	30.606-31.406		71.00
	31.006	30.606-31.406		55.00
148 2-Acetylaminofluorene	10.971	10.571-11.371		181.00
	10.971	10.571-11.371		180.00
	10.971	10.571-11.371		223.00
149 Famphur	11.153	10.753-11.553		218.00
	11.153	10.753-11.553		125.00
	11.153	10.753-11.553		93.00
150 Benzo (a) Anthracene	11.442	11.042-11.842	1.01e+000	228.00
	11.442	11.042-11.842		229.00
	11.442	11.042-11.842		226.00
151 4,4'-Methylenebis (2-Chl	11.249	10.849-11.649		231.00
	11.249	10.849-11.649		266.00
152 3,3'-Dichlorobenzidine	11.399	10.999-11.799	4.39e-001	252.00
	11.399	10.999-11.799		254.00
	11.394	10.994-11.794		126.00

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## COMPOUND LISTING

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Compound	RT	RT Window	RF	Mass
* 153 Chrysene-d12	11.464	11.064-11.864		240.00
	11.464	11.064-11.864		120.00
	11.464	11.064-11.864		236.00
154 Chrysene	11.506	11.106-11.906	1.02e+000	228.00
	11.506	11.106-11.906		226.00
	11.506	11.106-11.906		229.00
155 bis(2-ethylhexyl)Phthal	11.367	10.967-11.767	6.87e-001	149.00
	11.367	10.967-11.767		167.00
	11.373	10.973-11.773		279.00
M 156 Toluenediamine	32.590	0.600-1.400		122.00
157 Triethylamine	32.746	32.346-33.146		58.00
	32.746	32.346-33.146		86.00
158 Di-n-octylphthalate	12.185	11.785-12.585	1.21e+000	149.00
	12.190	11.790-12.590		167.00
	12.185	11.785-12.585		43.00
159 1,2-Dinitrobenzene	32.999	32.599-33.399		168.00
	32.999	32.599-33.399		50.00
	32.999	32.599-33.399		63.00
160 Benzo(b)fluoranthene	13.071	12.671-13.471	1.09e+000	252.00
	13.071	12.671-13.471		253.00
	13.061	12.661-13.461		125.00
161 Benzo(k)fluoranthene	13.109	12.709-13.509	1.20e+000	252.00
	13.109	12.709-13.509		253.00
	13.109	12.709-13.509		125.00
162 7,12-Dimethylbenz(a)ant	12.851	12.451-13.251		256.00
	12.851	12.451-13.251		241.00
	12.851	12.451-13.251		120.00
163 Hexachlorophene	13.140	12.740-13.540		196.00
	13.140	12.740-13.540		198.00
	13.140	12.740-13.540		209.00
164 N,N-Dimethylamine	34.260	33.860-34.660		120.00
	34.260	33.860-34.660		121.00
	34.260	33.860-34.660		77.00
165 Benzo(a)pyrene	13.707	13.307-14.107	1.08e+000	252.00
	13.701	13.301-14.101		253.00
	13.707	13.307-14.107		125.00
* 166 Perylene-d12	13.803	13.403-14.203		264.00
	13.803	13.403-14.203		260.00
	13.803	13.403-14.203		265.00
167 Carbofuran Phenol	35.107	34.707-35.507		164.00
	35.107	34.707-35.507		149.00
168 2,3- and 3,5-Diaminotol	35.167	34.767-35.567		122.00
	35.167	34.767-35.567		94.00
	35.167	34.767-35.567		104.00
169 3-methylcholanthrene	14.192	13.792-14.592		268.00
	14.192	13.792-14.592		252.00
	14.192	13.792-14.592		126.00

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## COMPOUND LISTING

Method file : \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

Compound	RT	RT Window	RF	Mass
170 2,6- and 2,4-Diaminotol	36.310	35.910-36.710		122.00
	36.310	35.910-36.710		94.00
	36.310	35.910-36.710		104.00
171 Limonene	36.891	36.491-37.291		68.00
172 n-Decane	36.891	36.491-37.291		57.00
	36.891	36.491-37.291		43.00
173 Indeno(1,2,3-cd)pyrene	16.142	15.742-16.542	1.19e+000	276.00
	16.142	15.742-16.542		138.00
	16.142	15.742-16.542		277.00
174 Dibenzo(a,h)anthracene	16.148	15.748-16.548	1.06e+000	278.00
	16.142	15.742-16.542		139.00
	16.148	15.748-16.548		279.00
175 Dibenz(e,a) Pyrene	33.628	33.228-34.028		302.00
	33.628	33.228-34.028		150.00
176 n-tridecane	38.279	37.879-38.679		57.00
	38.279	37.879-38.679		71.00
	38.279	37.879-38.679		85.00
177 Benzo(g,h,i)perylene	16.676	16.276-17.076	9.94e-001	276.00
	16.676	16.276-17.076		138.00
	16.676	16.276-17.076		277.00
\$ 178 2,4,6-Trichlorophenol-d	39.930	39.530-40.330		198.00
	39.930	39.530-40.330		99.00
179 Phthalic Acid	40.365	39.965-40.765		277.00
	40.365	39.965-40.765		278.00
	40.365	39.965-40.765		77.00
180 n-Dodecane	40.586	40.186-40.986		57.00
	40.586	40.186-40.986		43.00
	40.586	40.186-40.986		71.00
M 181 Isosafrole	41.145	9.253-10.053		162.00
	41.145	9.253-10.053		104.00
	41.145	9.253-10.053		131.00

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2436.D  
 Report Date: 15-Apr-2010 16:03

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## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSJ.i Injection Date: 15-APR-2010 14:11  
 Lab File ID: JCAL2436.D Init. Cal. Date(s): 15-APR-2010 15-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:13 13:20  
 Lab Sample ID: SSTD050ICV Quant Type: ISTD  
 Method: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 1,4-Dioxane	0.49227	0.48941	0.48941	0.010	0.58270	60.00000	Averaged
4 N-Nitrosodimethylamine	0.74174	0.72644	0.72644	0.010	2.06353	60.00000	Averaged
3 Pyridine	1.36988	1.28059	1.28059	0.010	6.51789	60.00000	Averaged
5 Dimethylformamide	0.79635	0.82123	0.82123	0.010	-3.12438	60.00000	Averaged
11 Cyclohexanol	0.95610	0.96492	0.96492	0.010	-0.92233	60.00000	Averaged
17 Aniline	1.12068	2.00372	2.00372	0.010	-78.79572	60.00000	Averaged <-
19 Bis(2-chloroethyl)ether	1.19624	1.21169	1.21169	0.010	-1.29117	60.00000	Averaged
16 Phenol	1.62953	1.51373	1.51373	0.010	7.10643	20.00000	Averaged
20 2-Chlorophenol	1.35133	1.25734	1.25734	0.010	6.95512	60.00000	Averaged
21 1,3-Dichlorobenzene	1.46190	1.45115	1.45115	0.010	0.73596	60.00000	Averaged
23 1,4-Dichlorobenzene	1.52807	1.54948	1.54948	0.010	-1.40131	20.00000	Averaged
26 1,2-Dichlorobenzene	1.41725	1.36970	1.36970	0.010	3.35557	60.00000	Averaged
25 Benzyl Alcohol	0.84052	0.81877	0.81877	0.010	2.58765	60.00000	Averaged
28 2,2-oxybis(1-Chloropropane)	1.18591	1.24729	1.24729	0.010	-5.17567	60.00000	Averaged
27 2-Methylphenol	1.15223	1.13843	1.13843	0.010	1.19738	60.00000	Averaged
35 Hexachloroethane	0.57830	0.59978	0.59978	0.010	-3.71456	60.00000	Averaged
32 N-Nitrosodipropylamine	0.91976	1.01049	1.01049	0.050	-9.86449	60.00000	Averaged
29 3 and 4-Methylphenol	1.41070	1.31984	1.31984	0.010	6.44094	60.00000	Averaged
37 Nitrobenzene	0.44111	0.42522	0.42522	0.010	3.60322	60.00000	Averaged
39 Isophorone	0.69728	0.72123	0.72123	0.010	-3.43431	60.00000	Averaged
40 2-Nitrophenol	0.21107	0.19583	0.19583	0.010	7.22016	20.00000	Averaged
41 2,4-Dimethylphenol	0.43762	0.41675	0.41675	0.010	4.76798	60.00000	Averaged
42 Bis(2-chloroethoxy)methane	0.38462	0.38775	0.38775	0.010	-0.81361	60.00000	Averaged
45 2,4-Dichlorophenol	0.31178	0.29160	0.29160	0.010	6.47403	20.00000	Averaged
47 1,2,4-Trichlorobenzene	0.34489	0.35420	0.35420	0.010	-2.69870	60.00000	Averaged
44 Benzoic Acid	0.22981	0.21811	0.21811	0.010	5.09204	60.00000	Averaged
50 Naphthalene	1.07544	1.06079	1.06079	0.010	1.36225	60.00000	Averaged
51 4-Chloroaniline	0.47034	0.42288	0.42288	0.010	10.09024	60.00000	Averaged
54 Hexachlorobutadiene	0.23844	0.23112	0.23112	0.010	3.06944	20.00000	Averaged
62 2-Methylnaphthalene	0.76836	0.69978	0.69978	0.010	8.92531	60.00000	Averaged
59 4-Chloro-3-Methylphenol	0.36835	0.34043	0.34043	0.010	7.57803	20.00000	Averaged
66 Hexachlorocyclopentadiene	0.46994	0.48615	0.48615	0.050	-3.44921	60.00000	Averaged
67 2,4,6-Trichlorophenol	0.43458	0.40252	0.40252	0.010	7.37743	20.00000	Averaged
68 2,4,5-Trichlorophenol	0.48214	0.43348	0.43348	0.010	10.09248	60.00000	Averaged
72 2-Chloronaphthalene	1.15740	1.14699	1.14699	0.010	0.90010	60.00000	Averaged
73 2-Nitroaniline	0.42689	0.40063	0.40063	0.010	6.15165	60.00000	Averaged
76 Dimethylphthalate	1.40738	1.35473	1.35473	0.010	3.74112	60.00000	Averaged
79 Acenaphthylene	1.81952	1.82791	1.82791	0.010	-0.46097	60.00000	Averaged
80 2,6-Dinitrotoluene	0.32352	0.31534	0.31534	0.010	2.52855	60.00000	Averaged
83 Acenaphthene	1.21253	1.18999	1.18999	0.010	1.85908	20.00000	Averaged
81 3-Nitroaniline	0.32666	0.31447	0.31447	0.010	3.73184	60.00000	Averaged
84 2,4-Dinitrophenol	50.00000	43.85923	0.21568	0.050	12.28155	0.000e+000	Linear <-
86 Dibenzofuran	1.84030	1.71995	1.71995	0.010	6.53945	60.00000	Averaged

Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2436.D  
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## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSJ.i Injection Date: 15-APR-2010 14:11  
Lab File ID: JCAL2436.D Init. Cal. Date(s): 15-APR-2010 15-APR-2010  
Analysis Type: SOIL Init. Cal. Times: 11:13 13:20  
Lab Sample ID: SST050ICV Quant Type: ISTD  
Method: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
88 2,4-Dinitrotoluene	0.43159	0.43792	0.43792	0.010	-1.46586	60.00000	Averaged
85 4-Nitrophenol	0.28562	0.26760	0.26760	0.050	6.30722	60.00000	Averaged
93 Diethylphthalate	1.37440	1.36418	1.36418	0.010	0.74373	60.00000	Averaged
94 Fluorene	1.42041	1.40014	1.40014	0.010	1.42696	60.00000	Averaged
95 4-Chlorophenyl-phenylether	0.73628	0.72012	0.72012	0.010	2.19421	60.00000	Averaged
98 4-Nitroaniline	0.32779	0.30224	0.30224	0.010	7.79372	60.00000	Averaged
99 4,6-Dinitro-2-methylphenol	0.16469	0.15515	0.15515	0.010	5.79174	60.00000	Averaged
100 N-Nitrosodiphenylamine	0.50091	0.62536	0.62536	0.010	-24.84489	20.00000	Averaged
102 Azobenzene	0.74521	0.76194	0.76194	0.010	-2.24477	60.00000	Averaged
109 4-Bromophenyl-phenylether	0.23064	0.22751	0.22751	0.010	1.35648	60.00000	Averaged
112 Hexachlorobenzene	0.23796	0.23361	0.23361	0.010	1.82672	60.00000	Averaged
117 Pentachlorophenol	0.17527	0.16239	0.16239	0.010	7.35031	20.00000	Averaged
122 Phenanthrene	1.05458	1.04288	1.04288	0.010	1.10959	60.00000	Averaged
124 Anthracene	1.08233	1.06332	1.06332	0.010	1.75719	60.00000	Averaged
126 Carbazole	0.96983	0.96364	0.96364	0.010	0.63769	60.00000	Averaged
129 Di-n-Butylphthalate	1.19580	1.20273	1.20273	0.010	-0.57959	60.00000	Averaged
134 Fluoranthene	1.12727	1.15014	1.15014	0.010	-2.02906	20.00000	Averaged
135 Benzidine	0.48905	0.67917	0.67917	0.010	-38.87417	100	Averaged
137 Pyrene	1.10624	1.11067	1.11067	0.010	-0.40074	60.00000	Averaged
145 3,3-Dimethylbenzidine	0.57104	0.84703	0.84703	0.010	-48.33112	60.00000	Averaged
146 Butylbenzylphthalate	0.49972	0.53242	0.53242	0.010	-6.54293	60.00000	Averaged
150 Benzo(a)Anthracene	1.00883	1.06444	1.06444	0.010	-5.51154	60.00000	Averaged
152 3,3'-Dichlorobenzidine	0.43882	0.42602	0.42602	0.010	2.91794	60.00000	Averaged
154 Chrysene	1.02082	1.01617	1.01617	0.010	0.45528	60.00000	Averaged
155 bis(2-ethylhexyl)Phthalate	0.68656	0.67426	0.67426	0.010	1.79177	60.00000	Averaged
158 Di-n-octylphthalate	1.20683	1.20116	1.20116	0.010	0.46988	20.00000	Averaged
160 Benzo(b)fluoranthene	1.08863	1.18371	1.18371	0.010	-8.73388	60.00000	Averaged
161 Benzo(k)fluoranthene	1.19606	1.18857	1.18857	0.010	0.62665	60.00000	Averaged
165 Benzo(a)pyrene	1.07594	1.08338	1.08338	0.010	-0.69121	20.00000	Averaged
173 Indeno(1,2,3-cd)pyrene	1.18592	1.16506	1.16506	0.010	1.75931	60.00000	Averaged
174 Dibenzo(a,h)anthracene	1.05671	1.04743	1.04743	0.010	0.87765	60.00000	Averaged
177 Benzo(g,h,i)perylene	0.99435	1.02013	1.02013	0.010	-2.59284	60.00000	Averaged

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
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## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
 Lab Smp Id: SSTD050 Client Smp ID: SSTD050  
 Inj Date : 15-APR-2010 11:13  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SSTD050  
 Misc Info : SV0105-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 16:05 kuessner Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 3 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL		RESPONSE	EXP RT	REL RT
	MASS	(ug/mL)	(ug/mL)				
1 1,4-Dioxane	88	50.0000	51.49 (M)		64776	2.979	2.979 (0.542)
4 N-Nitrosodimethylamine	74	50.0000	48.98 (a)		92840	3.379	3.379 (0.615)
3 Pyridine	79	50.0000	49.76		174202	3.385	3.385 (0.616)
5 Dimethylformamide	44	50.0000	50.28 (aM)		102338	3.753	3.753 (0.683)
\$ 10 2-Fluorophenol	112	50.0000	49.63 (a)		145488	4.549	4.549 (0.828)
11 Cyclohexanol	57	50.0000	49.42 (a)		120746	4.635	4.635 (0.844)
17 Aniline	93	50.0000	48.56		139083	5.276	5.276 (0.960)
19 Bis(2-chloroethyl)ether	93	50.0000	48.73		148967	5.302	5.302 (0.965)
\$ 15 Phenol-d5	99	50.0000	48.76 (a)		182856	5.227	5.227 (0.951)
16 Phenol	94	50.0000	48.50 (a)		201976	5.238	5.238 (0.953)
20 2-Chlorophenol	128	50.0000	48.82 (a)		168591	5.361	5.361 (0.976)
21 1,3-Dichlorobenzene	146	50.0000	49.84 (a)		186197	5.468	5.468 (0.995)
* 22 1,4-Dichlorobenzene-d4	152	40.0000	(a)		102224	5.495	5.495 (1.000)
23 1,4-Dichlorobenzene	146	50.0000	49.25 (a)		192343	5.505	5.505 (1.002)
26 1,2-Dichlorobenzene	146	50.0000	49.74		180158	5.649	5.649 (1.028)
25 Benzyl Alcohol	108	50.0000	50.37 (a)		108202	5.596	5.596 (1.018)
28 2,2-oxybis(1-Chloropropane)	45	50.0000	49.08		148758	5.703	5.703 (1.038)
27 2-Methylphenol	108	50.0000	47.66 (a)		140338	5.676	5.676 (1.033)
35 Hexachloroethane	117	50.0000	51.41 (a)		75984	5.879	5.879 (1.070)
32 N-Nitrosodipropylamine	70	50.0000	50.52		118757	5.815	5.815 (1.058)

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
 Report Date: 15-Apr-2010 16:06

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Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	----	----	----	-----	-----	-----	-----	-----
29 3 and 4-Methylphenol	107		5.783	5.783 (1.052)		347366	100.000	96.35
\$ 36 Nitrobenzene-d5	82		5.927	5.927 (0.917)		203868	50.0000	51.20 (a)
37 Nitrobenzene	77		5.943	5.943 (0.920)		200625	50.0000	50.46 (a)
39 Isophorone	82		6.103	6.103 (0.945)		321307	50.0000	51.12 (a)
40 2-Nitrophenol	139		6.178	6.178 (0.956)		91622	50.0000	48.16 (a)
41 2,4-Dimethylphenol	107		6.178	6.178 (0.956)		194783	50.0000	49.38 (a)
42 Bis(2-chloroethoxy)methane	93		6.248	6.248 (0.967)		175973	50.0000	50.76 (a)
45 2,4-Dichlorophenol	162		6.349	6.349 (0.983)		143106	50.0000	50.92 (a)
47 1,2,4-Trichlorobenzene	180		6.424	6.424 (0.994)		157222	50.0000	50.58 (a)
* 48 Naphthalene-d8	136		6.461	6.461 (1.000)		360526	40.0000	(a)
44 Benzoic Acid	122		6.258	6.258 (0.969)		108574	50.0000	52.42
50 Naphthalene	128		6.477	6.477 (1.002)		487623	50.0000	50.31 (a)
51 4-Chloroaniline	127		6.520	6.520 (1.009)		211795	50.0000	49.96 (a)
54 Hexachlorobutadiene	225		6.595	6.595 (1.021)		111120	50.0000	51.70 (a)
62 2-Methylnaphthalene	142		7.001	7.001 (1.083)		343992	50.0000	49.67
59 4-Chloro-3-Methylphenol	107		6.857	6.857 (1.061)		166533	50.0000	50.16 (a)
66 Hexachlorocyclopentadiene	237		7.172	7.172 (0.914)		126457	50.0000	52.20 (a)
67 2,4,6-Trichlorophenol	196		7.230	7.230 (0.921)		113325	50.0000	50.59 (a)
68 2,4,5-Trichlorophenol	196		7.262	7.262 (0.925)		125359	50.0000	50.44 (a)
\$ 69 2-Fluorobiphenyl	172		7.289	7.289 (0.929)		366483	50.0000	49.79 (a)
72 2-Chloronaphthalene	162		7.391	7.391 (0.941)		296772	50.0000	49.74 (a)
73 2-Nitroaniline	65		7.481	7.481 (0.953)		111327	50.0000	50.59 (a)
76 Dimethylphthalate	163		7.620	7.620 (0.971)		372920	50.0000	51.40 (a)
79 Acenaphthylene	152		7.727	7.727 (0.984)		464142	50.0000	49.49 (a)
80 2,6-Dinitrotoluene	165		7.690	7.690 (0.980)		84831	50.0000	50.87 (a)
* 82 Acenaphthene-d10	164		7.850	7.850 (1.000)		206190	40.0000	(a)
83 Acenaphthene	153		7.877	7.877 (1.003)		301697	50.0000	48.27 (a)
81 3-Nitroaniline	138		7.813	7.813 (0.995)		83086	50.0000	49.34
84 2,4-Dinitrophenol	184		7.887	7.887 (1.005)		61631	50.0000	48.14 (a)
86 Dibenzofuran	168		7.994	7.994 (1.018)		457173	50.0000	48.19 (a)
88 2,4-Dinitrotoluene	165		8.005	8.005 (1.020)		109651	50.0000	49.29 (a)
85 4-Nitrophenol	109		7.909	7.909 (1.007)		80245	50.0000	54.50
93 Diethylphthalate	149		8.176	8.176 (1.042)		365152	50.0000	51.54 (a)
94 Fluorene	166		8.277	8.277 (1.054)		370265	50.0000	50.57 (a)
95 4-Chlorophenyl-phenylether	204		8.251	8.251 (1.051)		188878	50.0000	49.76 (a)
98 4-Nitroaniline	138		8.315	8.315 (1.059)		83741	50.0000	49.56 (a)
99 4,6-Dinitro-2-methylphenol	198		8.336	8.336 (0.922)		84980	50.0000	49.64 (a)
100 N-Nitrosodiphenylamine	169		8.352	8.352 (0.924)		245769	50.0000	47.20 (a)
102 Azobenzene	77		8.379	8.379 (0.927)		388038	50.0000	50.09 (a)
\$ 104 2,4,6-Tribromophenol	330		8.491	8.491 (0.939)		57309	50.0000	47.62 (a)
109 4-Bromophenyl-phenylether	248		8.646	8.646 (0.956)		117795	50.0000	49.14 (a)
112 Hexachlorobenzene	284		8.790	8.790 (0.972)		120662	50.0000	48.78 (a)
117 Pentachlorophenol	266		8.929	8.929 (0.988)		86330	50.0000	47.38 (a)
* 121 Phenanthrene-d10	188		9.041	9.041 (1.000)		415780	40.0000	(a)
122 Phenanthrene	178		9.062	9.062 (1.002)		544729	50.0000	49.69 (a)
124 Anthracene	178		9.100	9.100 (1.006)		556404	50.0000	49.46 (a)
126 Carbazole	167		9.217	9.217 (1.019)		502733	50.0000	49.87 (a)
129 Di-n-Butylphthalate	149		9.474	9.474 (1.048)		622585	50.0000	50.09 (a)
134 Fluoranthene	202		10.045	10.045 (1.111)		594313	50.0000	50.72 (a)
135 Benzidine	184		10.125	10.125 (0.884)		276311	50.0000	50.64 (a)
137 Pyrene	202		10.243	10.243 (0.895)		618997	50.0000	50.15 (a)
\$ 139 Terphenyl-d14	244		10.334	10.334 (0.903)		472751	50.0000	49.99 (a)
145 3,3-Dimethylbenzidine	212		10.777	10.777 (0.941)		311448	50.0000	48.88
146 Butylbenzylphthalate	149		10.766	10.766 (0.940)		278653	50.0000	49.98 (a)

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
 Report Date: 15-Apr-2010 16:06

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Compounds	QUANT SIG							AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
							(ug/mL)	(ug/mL)	
=====	====		====	=====	=====	=====	=====	=====	
150 Benzo(a)Anthracene	228	11.423	11.423	(0.998)	571054	50.0000	50.73 (a)		
* 153 Chrysene-d12	240	11.450	11.450	(1.000)	446285	40.0000	(a)		
152 3,3'-Dichlorobenzidine	252	11.375	11.375	(0.993)	247965	50.0000	50.65 (a)		
154 Chrysene	228	11.482	11.482	(1.003)	568320	50.0000	49.90 (a)		
155 bis(2-ethylhexyl)Phthalate	149	11.359	11.359	(0.992)	384369	50.0000	50.18 (a)		
158 Di-n-octylphthalate	149	12.171	12.171	(0.883)	635234	50.0000	51.23 (a)		
160 Benzo(b)fluoranthene	252	13.025	13.025	(0.945)	556797	50.0000	49.78 (a)		
161 Benzo(k)fluoranthene	252	13.074	13.074	(0.949)	640018	50.0000	52.08 (a)		
165 Benzo(a)pyrene	252	13.666	13.666	(0.992)	561703	50.0000	50.81 (a)		
* 166 Perylene-d12	264	13.779	13.779	(1.000)	410994	40.0000	(a)		
173 Indeno(1,2,3-cd)pyrene	276	16.070	16.070	(1.166)	624708	50.0000	51.27 (aM)		
174 Dibenzo(a,h)anthracene	278	16.081	16.081	(1.167)	548026	50.0000	50.47 (a)		
177 Benzo(g,h,i)perylene	276	16.609	16.609	(1.205)	525439	50.0000	51.43 (a)		

## QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).  
 M - Compound response manually integrated.



Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2429.D  
 Report Date: 15-Apr-2010 16:06

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## TestAmerica St. Louis

 INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JCAL2429.D  
 Lab Smp Id: SST050  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0105-10

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SST050  
 Level: LOW  
 Sample Type: SOIL

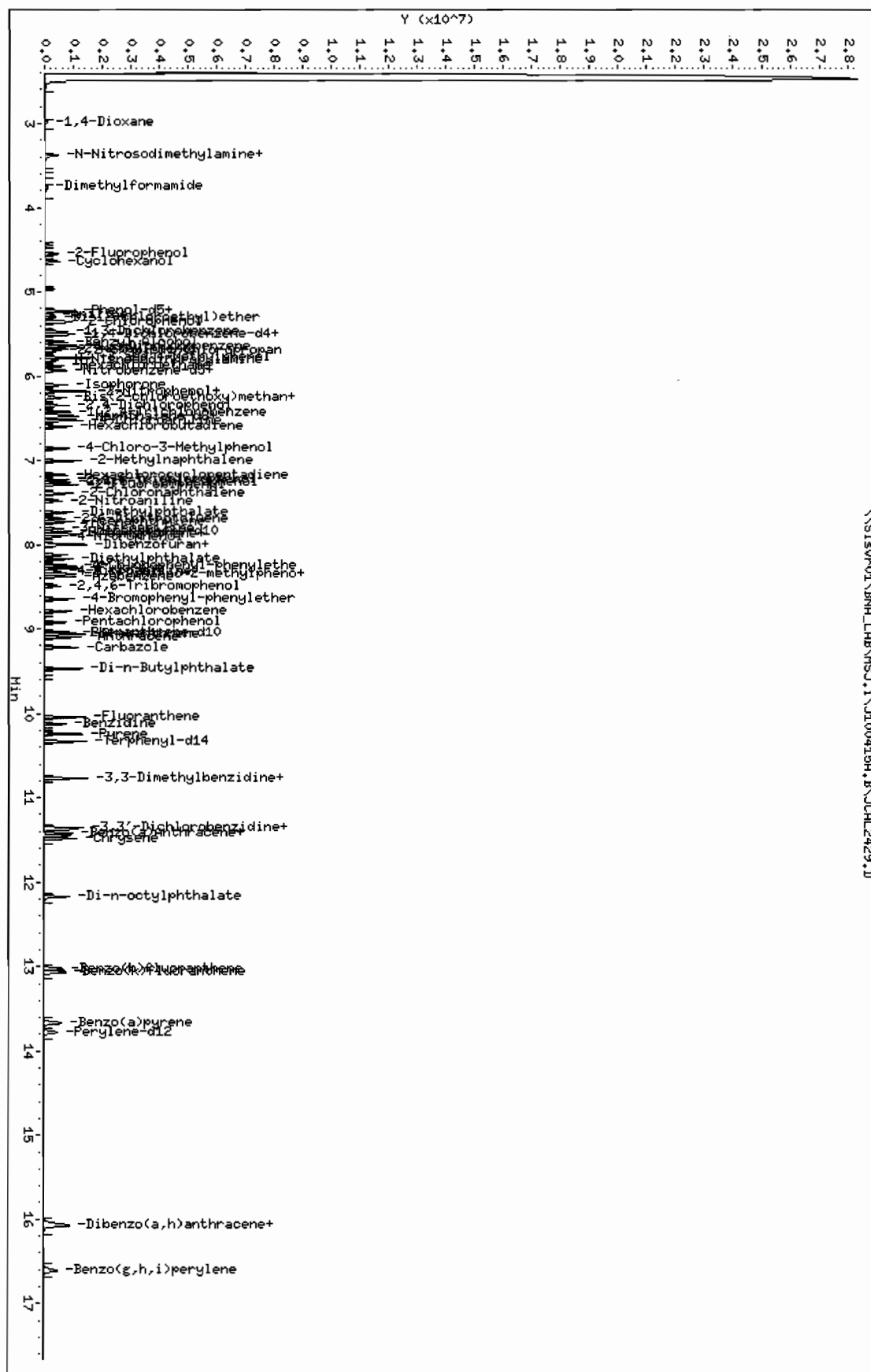
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	102224	0.00
48 Naphthalene-d8	360526	180263	721052	360526	0.00
82 Acenaphthene-d10	206190	103095	412380	206190	0.00
121 Phenanthrene-d10	415780	207890	831560	415780	0.00
153 Chrysene-d12	446285	223143	892570	446285	0.00
166 Perylene-d12	410994	205497	821988	410994	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.00
48 Naphthalene-d8	6.46	5.96	6.96	6.46	0.00
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.00
153 Chrysene-d12	11.45	10.95	11.95	11.45	0.00
166 Perylene-d12	13.78	13.28	14.28	13.78	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: \\Sisvr01\BNA\_LAB\HSCJ.1\1100415A.B\JCAL2429.D  
 Date : 15-APR-2010 11:13  
 Client ID: SST0050  
 Sample Info: SST0050  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: HSCJ.1  
 Operator: JM/HAK  
 Column diameter: 2.00



Data File Name: JCAL2429.D

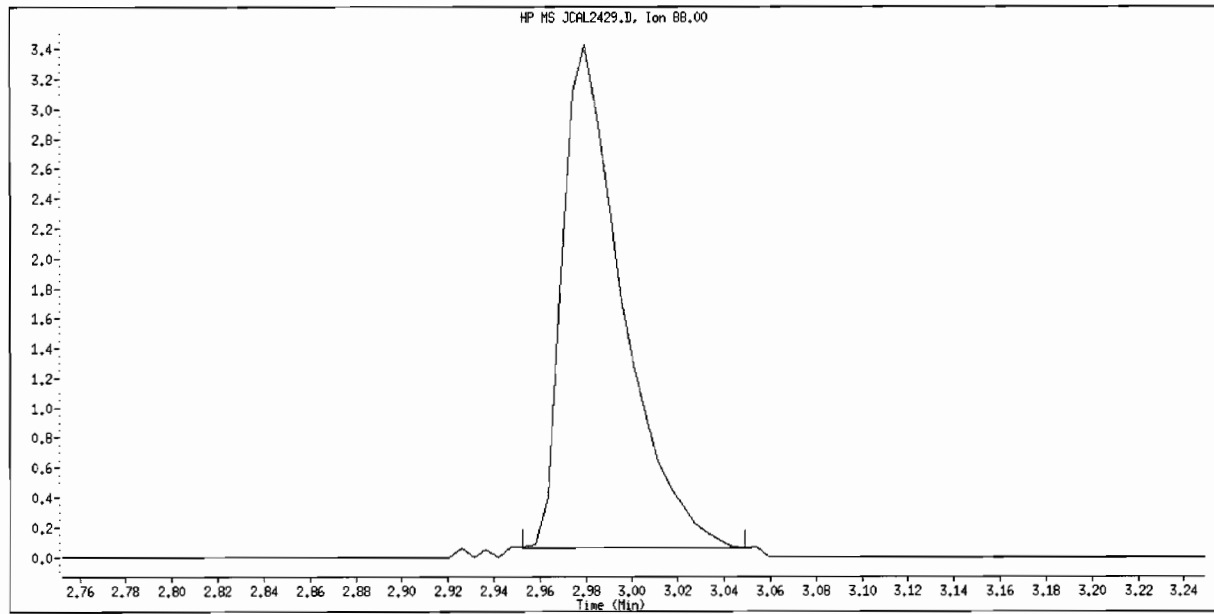
Inj. Date and Time: 15-APR-2010 11:13

Instrument ID: MSJ.i

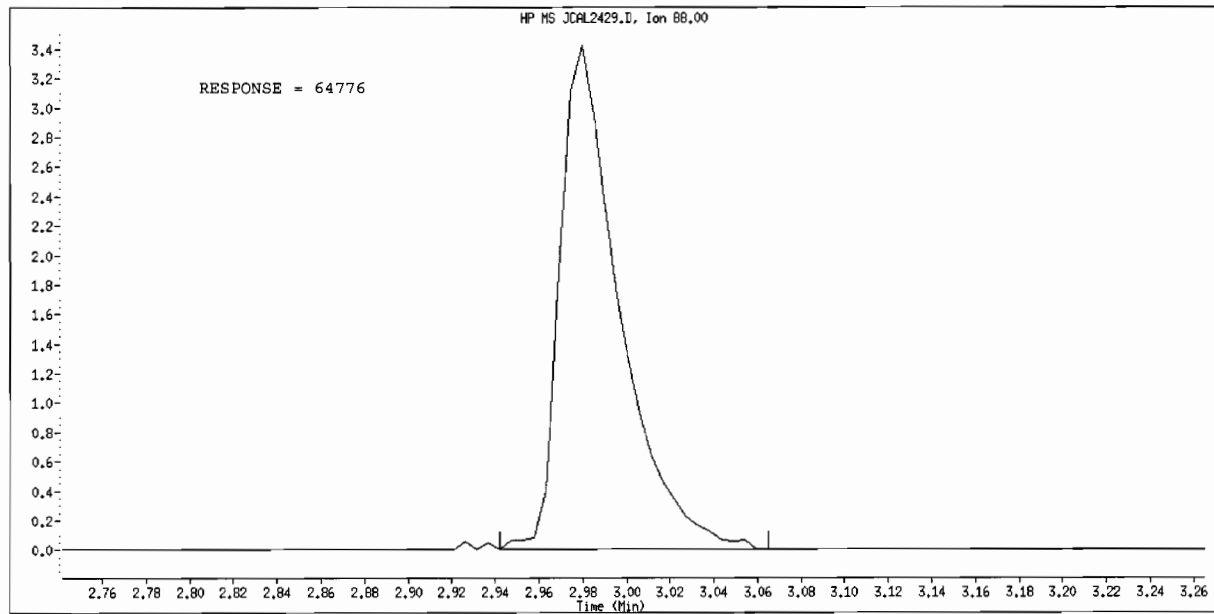
Client ID: SST050

Compound Name: 1,4-Dioxane

CAS #:



Original Integration

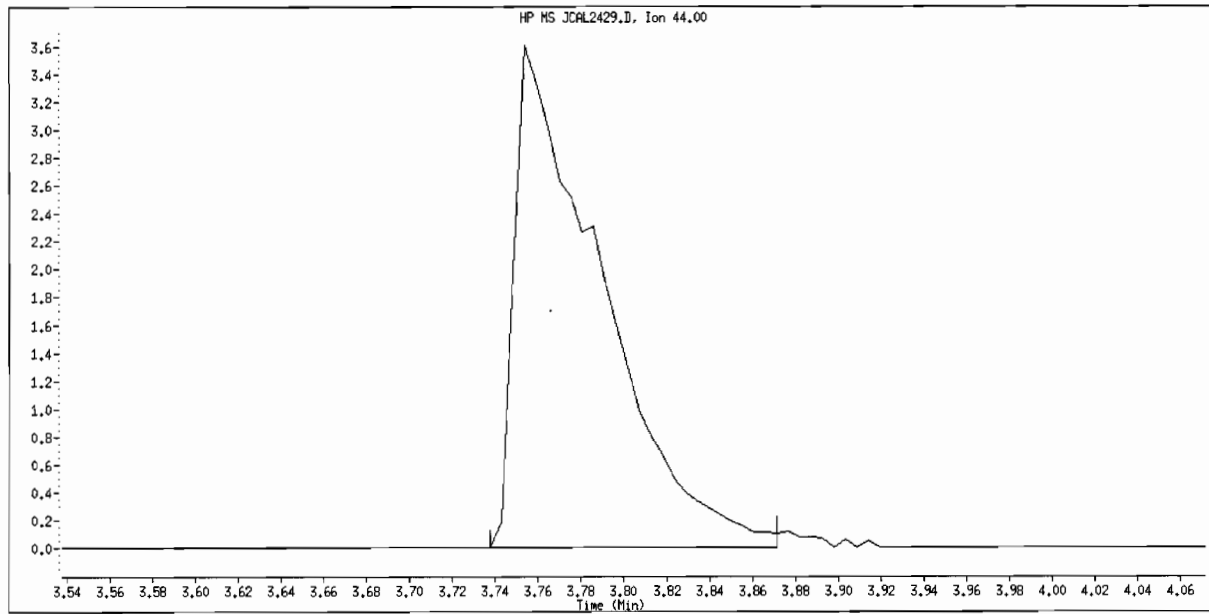


Manual Integration

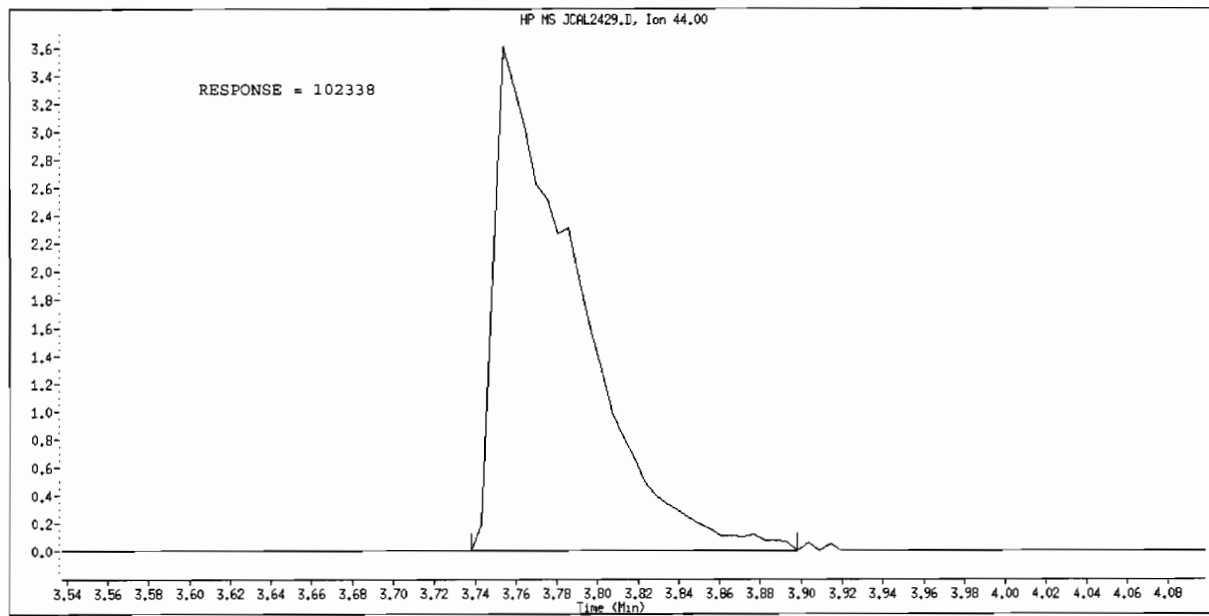
Manually Integrated By: kuessnerm

Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2429.D  
Inj. Date and Time: 15-APR-2010 11:13  
Instrument ID: MSJ.i  
Client ID: SST050  
Compound Name: Dimethylformamide  
CAS #: 68-12-2



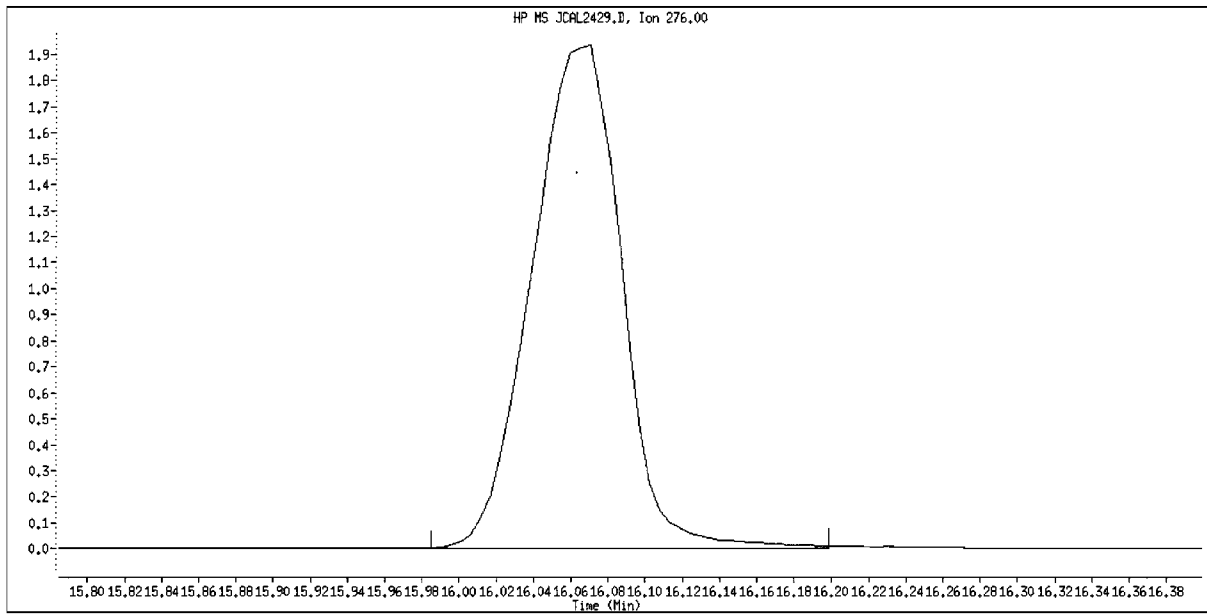
Original Integration



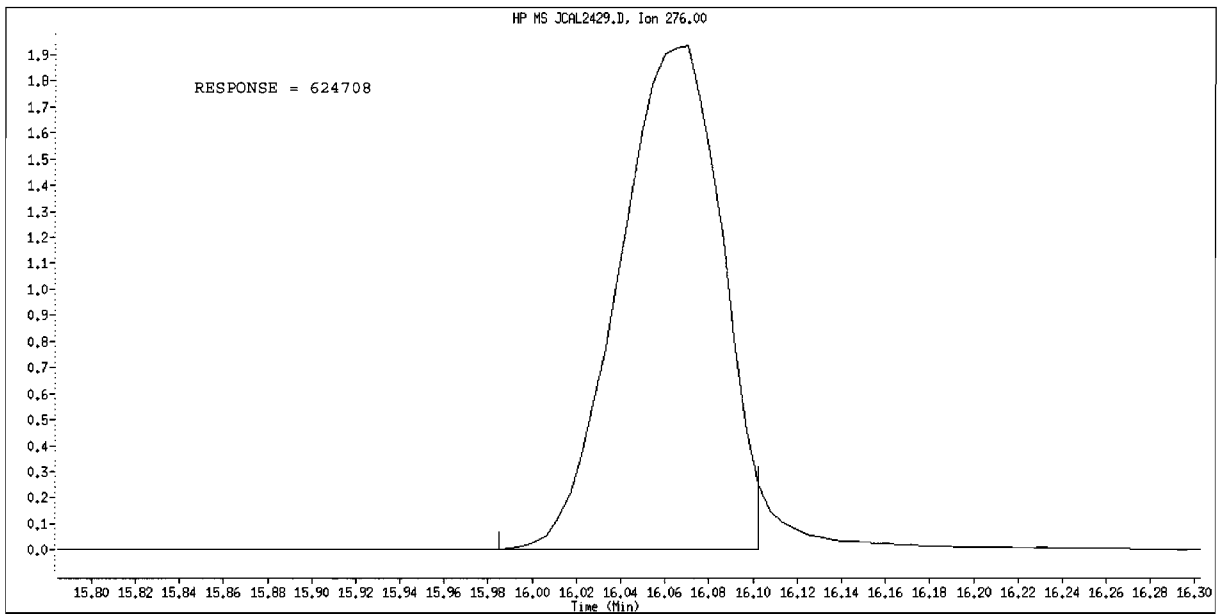
Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2429.D  
Inj. Date and Time: 15-APR-2010 11:13  
Instrument ID: MSJ.i  
Client ID: SST050  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Original Integration



Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D  
 Report Date: 15-Apr-2010 15:58

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D  
 Lab Smp Id: SSTD160 Client Smp ID: SSTD160  
 Inj Date : 15-APR-2010 11:38  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SSTD160  
 Misc Info : SV0100-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 15:58 kuessnerm Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 4 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/mL)	(ug/mL)	
1 1,4-Dioxane	88		3.046	3.046 (0.553)		223998	160.000	155.8	
4 N-Nitrosodimethylamine	74		3.451	3.451 (0.627)		353580	160.000	163.2 (aA)	
3 Pyridine	79		3.446	3.446 (0.626)		644683	160.000	161.1 (AM)	
5 Dimethylformamide	44		3.884	3.884 (0.705)		356260	160.000	153.1 (aM)	
\$ 10 2-Fluorophenol	112		4.584	4.584 (0.832)		536150	160.000	160.0 (a)	
11 Cyclohexanol	57		4.675	4.675 (0.849)		457598	160.000	163.8 (aA)	
17 Aniline	93		5.299	5.299 (0.962)		510004	160.000	155.8	
19 Bis(2-chloroethyl)ether	93		5.326	5.326 (0.967)		589851	160.000	168.8 (aA)	
\$ 15 Phenol-d5	99		5.257	5.257 (0.954)		717133	160.000	167.3 (aA)	
16 Phenol	94		5.262	5.262 (0.955)		803359	160.000	168.8 (aA)	
20 2-Chlorophenol	128		5.385	5.385 (0.978)		661438	160.000	167.6 (aA)	
21 1,3-Dichlorobenzene	146		5.481	5.481 (0.995)		710709	160.000	166.4 (aA)	
* 22 1,4-Dichlorobenzene-d4	152		5.508	5.508 (1.000)		116846	40.0000	(a)	
23 1,4-Dichlorobenzene	146		5.518	5.518 (1.002)		739302	160.000	165.6 (aA)	
26 1,2-Dichlorobenzene	146		5.663	5.663 (1.028)		714248	160.000	172.5 (A)	
25 Benzyl Alcohol	108		5.620	5.620 (1.020)		408724	160.000	166.5 (aA)	
28 2,2-oxybis(1-Chloropropane)	45		5.711	5.711 (1.037)		572680	160.000	165.3 (A)	
27 2-Methylphenol	108		5.689	5.689 (1.033)		557110	160.000	165.5 (aA)	
35 Hexachloroethane	117		5.892	5.892 (1.070)		277710	160.000	164.4 (aA)	
32 N-Nitrosodimethylamine	70		5.844	5.844 (1.061)		437088	160.000	162.7 (A)	

Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D  
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Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	----	-----	-----	-----	-----	-----
29 3 and 4-Methylphenol	107	5.802	5.802	(1.053)	1401948	320.000	340.2 (A)
\$ 36 Nitrobenzene-d5	82	5.946	5.946	(0.918)	739420	160.000	164.0 (aA)
37 Nitrobenzene	77	5.962	5.962	(0.921)	736148	160.000	163.5 (aA)
39 Isophorone	82	6.133	6.133	(0.947)	1177452	160.000	165.4 (aA)
40 2-Nitrophenol	139	6.191	6.191	(0.956)	391923	160.000	181.9 (aA)
41 2,4-Dimethylphenol	107	6.191	6.191	(0.956)	777480	160.000	174.1 (aA)
42 Bis(2-chloroethoxy)methane	93	6.266	6.266	(0.968)	663905	160.000	169.1 (aA)
45 2,4-Dichlorophenol	162	6.368	6.368	(0.984)	545827	160.000	171.5 (aA)
47 1,2,4-Trichlorobenzene	180	6.432	6.432	(0.993)	599937	160.000	170.4 (aA)
* 48 Naphthalene-d8	136	6.475	6.475	(1.000)	408240	40.0000	(a)
44 Benzoic Acid	122	6.320	6.320	(0.976)	395283	160.000	168.5 (A)
50 Naphthalene	128	6.491	6.491	(1.002)	1886490	160.000	171.9 (aA)
51 4-Chloroaniline	127	6.533	6.533	(1.009)	845814	160.000	176.2 (aA)
54 Hexachlorobutadiene	225	6.603	6.603	(1.020)	408135	160.000	167.7 (aA)
62 2-Methylnaphthalene	142	7.009	7.009	(1.082)	1360375	160.000	173.5 (A)
59 4-Chloro-3-Methylphenol	107	6.870	6.870	(1.061)	626639	160.000	166.7 (aA)
66 Hexachlorocyclopentadiene	237	7.180	7.180	(0.914)	488764	160.000	177.6 (aA)
67 2,4,6-Trichlorophenol	196	7.244	7.244	(0.922)	439906	160.000	172.8 (aA)
68 2,4,5-Trichlorophenol	196	7.276	7.276	(0.926)	474646	160.000	168.1 (aA)
\$ 69 2-Fluorobiphenyl	172	7.297	7.297	(0.929)	1428585	160.000	170.8 (aA)
72 2-Chloronaphthalene	162	7.399	7.399	(0.942)	1159494	160.000	171.0 (aA)
73 2-Nitroaniline	65	7.495	7.495	(0.954)	408953	160.000	163.5 (aA)
76 Dimethylphthalate	163	7.634	7.634	(0.971)	1375922	160.000	166.9 (aA)
79 Acenaphthylene	152	7.740	7.740	(0.985)	1821768	160.000	170.9 (aA)
80 2,6-Dinitrotoluene	165	7.708	7.708	(0.981)	322876	160.000	170.4 (aA)
* 82 Acenaphthene-d10	164	7.858	7.858	(1.000)	234308	40.0000	(a)
83 Acenaphthene	153	7.885	7.885	(1.003)	1229603	160.000	173.1 (aA)
81 3-Nitroaniline	138	7.831	7.831	(0.997)	321555	160.000	168.0 (A)
84 2,4-Dinitrophenol	184	7.906	7.906	(1.006)	249943	160.000	160.2 (aA)
86 Dibenzofuran	168	8.007	8.007	(1.019)	1865674	160.000	173.1 (aA)
88 2,4-Dinitrotoluene	165	8.023	8.023	(1.021)	433326	160.000	171.4 (aA)
85 4-Nitrophenol	109	7.933	7.933	(1.010)	266606	160.000	159.4
93 Diethylphthalate	149	8.189	8.189	(1.042)	1348129	160.000	167.4 (aA)
94 Fluorene	166	8.290	8.290	(1.055)	1413581	160.000	169.9 (aA)
95 4-Chlorophenyl-phenylether	204	8.258	8.258	(1.051)	746321	160.000	173.0 (aA)
98 4-Nitroaniline	138	8.344	8.344	(1.062)	320552	160.000	166.9 (aA)
99 4,6-Dinitro-2-methylphenol	198	8.365	8.365	(0.924)	348468	160.000	184.4 (aA)
100 N-Nitrosodiphenylamine	169	8.371	8.371	(0.924)	1022930	160.000	178.0 (aA)
102 Azobenzene	77	8.392	8.392	(0.927)	1450657	160.000	169.6 (aA)
\$ 104 2,4,6-Tribromophenol	330	8.499	8.499	(0.939)	238668	160.000	179.6 (aA)
109 4-Bromophenyl-phenylether	248	8.654	8.654	(0.956)	461963	160.000	174.5 (aA)
112 Hexachlorobenzene	284	8.803	8.803	(0.972)	475561	160.000	174.2 (aA)
117 Pentachlorophenol	266	8.937	8.937	(0.987)	364573	160.000	181.3 (aA)
* 121 Phenanthrene-d10	188	9.054	9.054	(1.000)	459011	40.0000	(a)
122 Phenanthrene	178	9.076	9.076	(1.002)	2076393	160.000	171.6 (aA)
124 Anthracene	178	9.113	9.113	(1.006)	2102422	160.000	169.3 (aA)
126 Carbazole	167	9.231	9.231	(1.019)	1892257	160.000	170.0 (aA)
129 Di-n-Butylphthalate	149	9.487	9.487	(1.048)	2390490	160.000	174.2 (aA)
134 Fluoranthene	202	10.058	10.058	(1.111)	2231107	160.000	172.5 (aA)
135 Benzidine	184	10.138	10.138	(0.884)	896062	160.000	150.2 (a)
137 Pyrene	202	10.256	10.256	(0.895)	2330029	160.000	172.6 (aA)
\$ 139 Terphenyl-d14	244	10.341	10.341	(0.902)	1819418	160.000	175.9 (aA)
145 3,3-Dimethylbenzidine	212	10.790	10.790	(0.941)	1098229	160.000	157.6
146 Butylbenzylphthalate	149	10.779	10.779	(0.940)	1071610	160.000	175.7 (aA)

Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D  
 Report Date: 15-Apr-2010 15:58

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	----	----	-----	-----	-----	-----	-----
150 Benzo(a)Anthracene	228	11.442	11.442	(0.998)	2073274	160.000	168.4 (aA)
* 153 Chrysene-d12	240	11.463	11.463	(1.000)	488071	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.399	11.399	(0.994)	935023	160.000	174.6 (aA)
154 Chrysene	228	11.506	11.506	(1.004)	2107351	160.000	169.2 (aA)
155 bis(2-ethylhexyl)Phthalate	149	11.367	11.367	(0.992)	1489670	160.000	177.8 (aA)
158 Di-n-octylphthalate	149	12.184	12.184	(0.883)	2443906	160.000	176.0 (aA)
160 Benzo(b)fluoranthene	252	13.071	13.071	(0.947)	2156230	160.000	172.1 (aA)
161 Benzo(k)fluoranthene	252	13.108	13.108	(0.950)	2261623	160.000	164.3 (aA)
165 Benzo(a)pyrene	252	13.706	13.706	(0.993)	2113556	160.000	170.7 (aA)
* 166 Perylene-d12	264	13.802	13.802	(1.000)	460362	40.0000	(a)
173 Indeno(1,2,3-cd)pyrene	276	16.142	16.142	(1.169)	2520782	160.000	184.7 (aAM)
174 Dibenzo(a,h)anthracene	278	16.147	16.147	(1.170)	2270819	160.000	186.7 (aA)
177 Benzo(g,h,i)perylene	276	16.676	16.676	(1.208)	1993804	160.000	174.2 (aA)

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount  
exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2430.D  
 Report Date: 15-Apr-2010 15:58

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JCAL2430.D  
 Lab Smp Id: SSTD160  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0100-10

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SSTD160  
 Level: LOW  
 Sample Type: SOIL

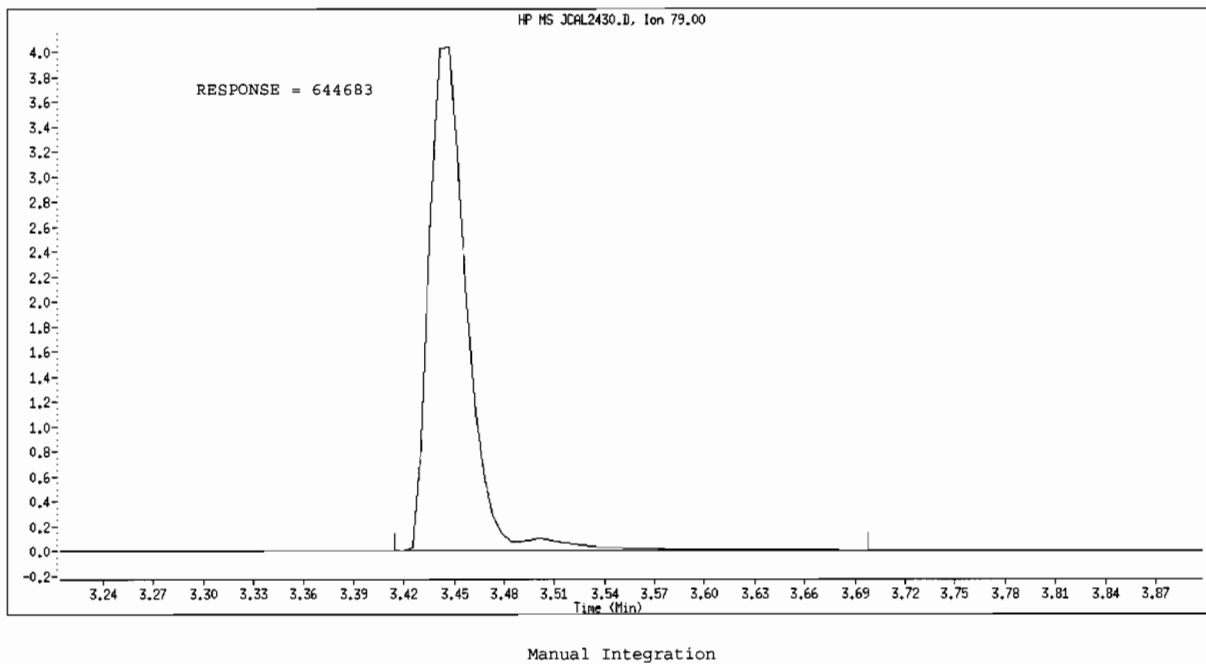
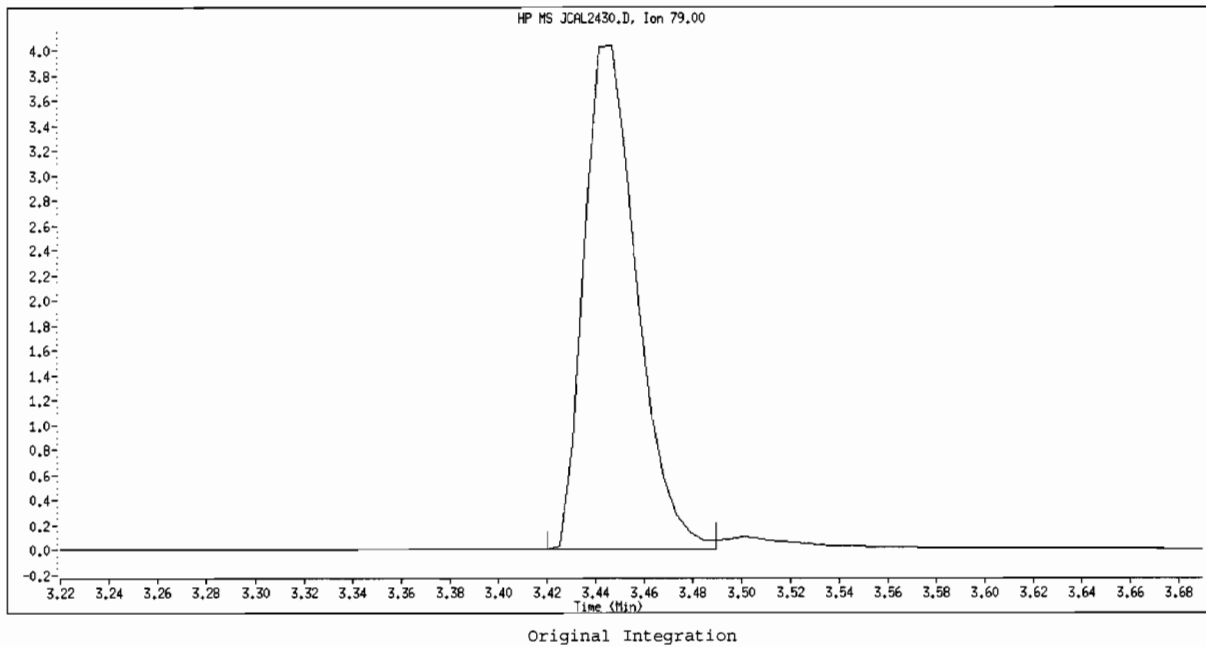
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	116846	14.30
48 Naphthalene-d8	360526	180263	721052	408240	13.23
82 Acenaphthene-d10	206190	103095	412380	234308	13.64
121 Phenanthrene-d10	415780	207890	831560	459011	10.40
153 Chrysene-d12	446285	223143	892570	488071	9.36
166 Perylene-d12	410994	205497	821988	460362	12.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.51	0.24
48 Naphthalene-d8	6.46	5.96	6.96	6.48	0.20
82 Acenaphthene-d10	7.85	7.35	8.35	7.86	0.10
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.15
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.12
166 Perylene-d12	13.78	13.28	14.28	13.80	0.17

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.

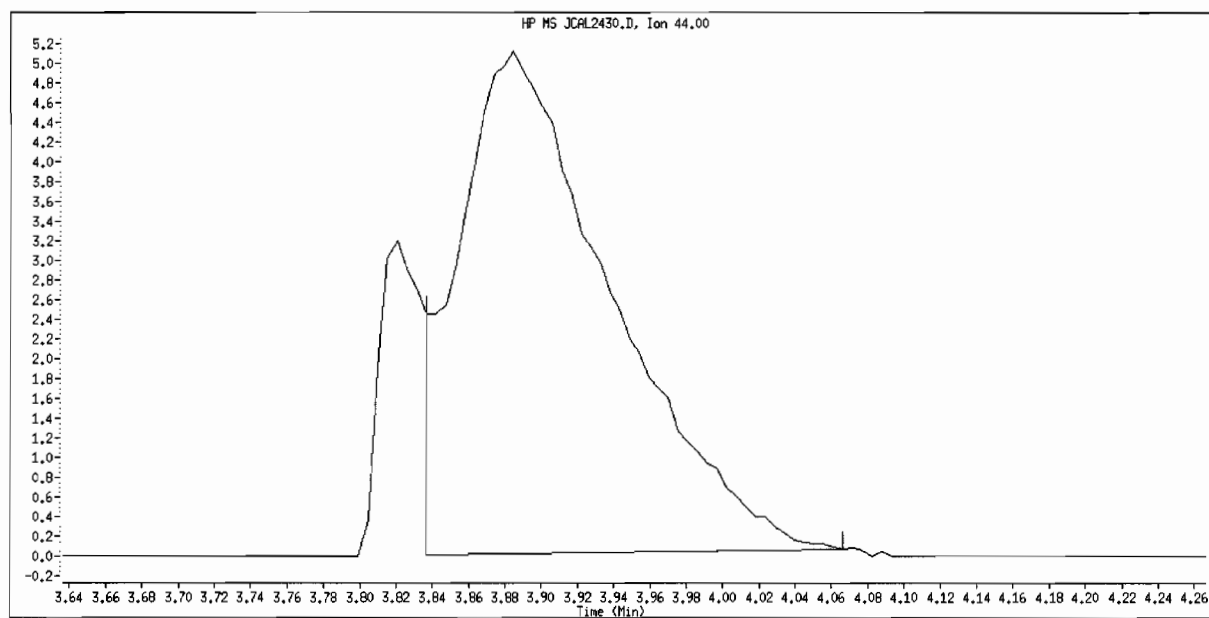


Data File Name: JCAL2430.D  
Inj. Date and Time: 15-APR-2010 11:38  
Instrument ID: MSJ.i  
Client ID: SSTD160  
Compound Name: Pyridine  
CAS #: 110-86-1

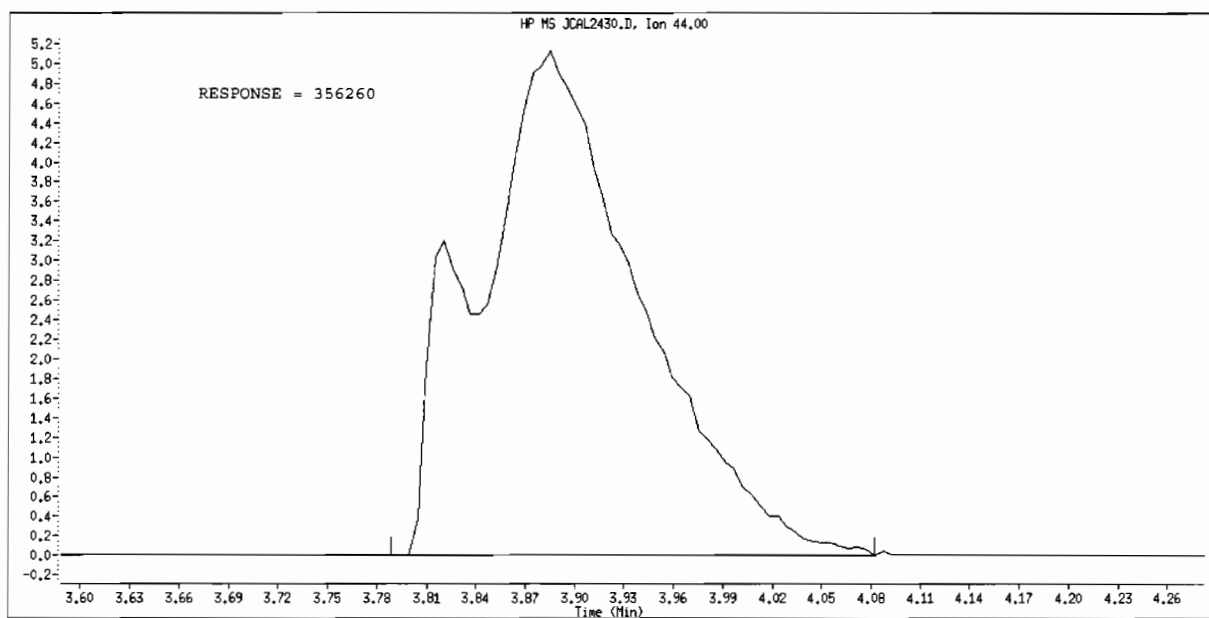


Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2430.D  
Inj. Date and Time: 15-APR-2010 11:38  
Instrument ID: MSJ.i  
Client ID: SSTDI60  
Compound Name: Dimethylformamide  
CAS #: 68-12-2



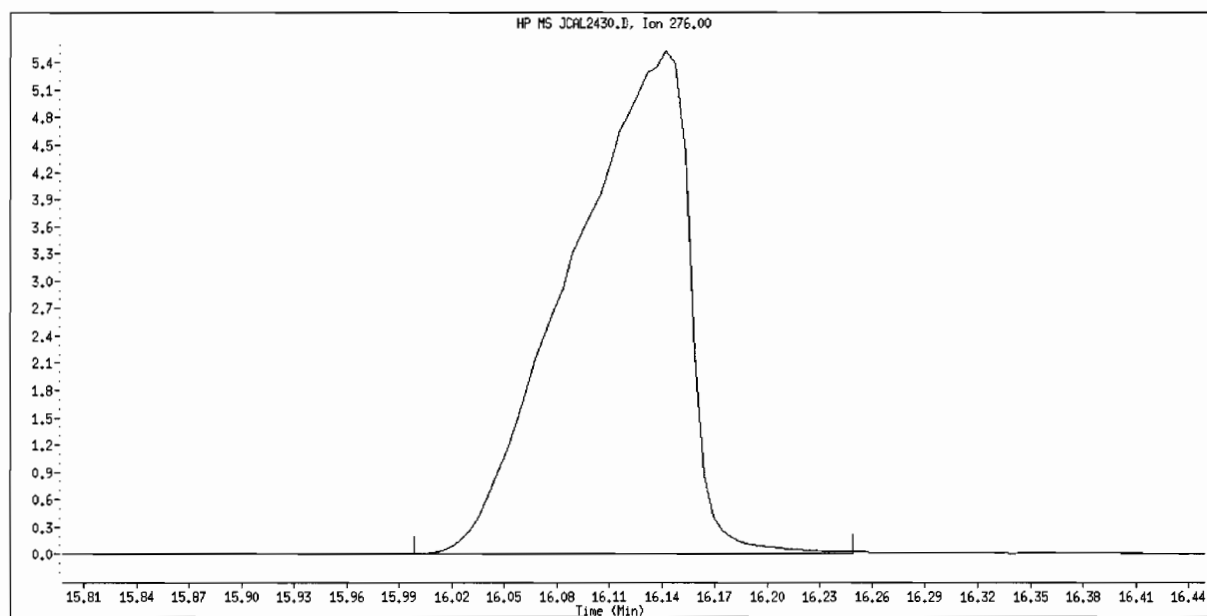
Original Integration



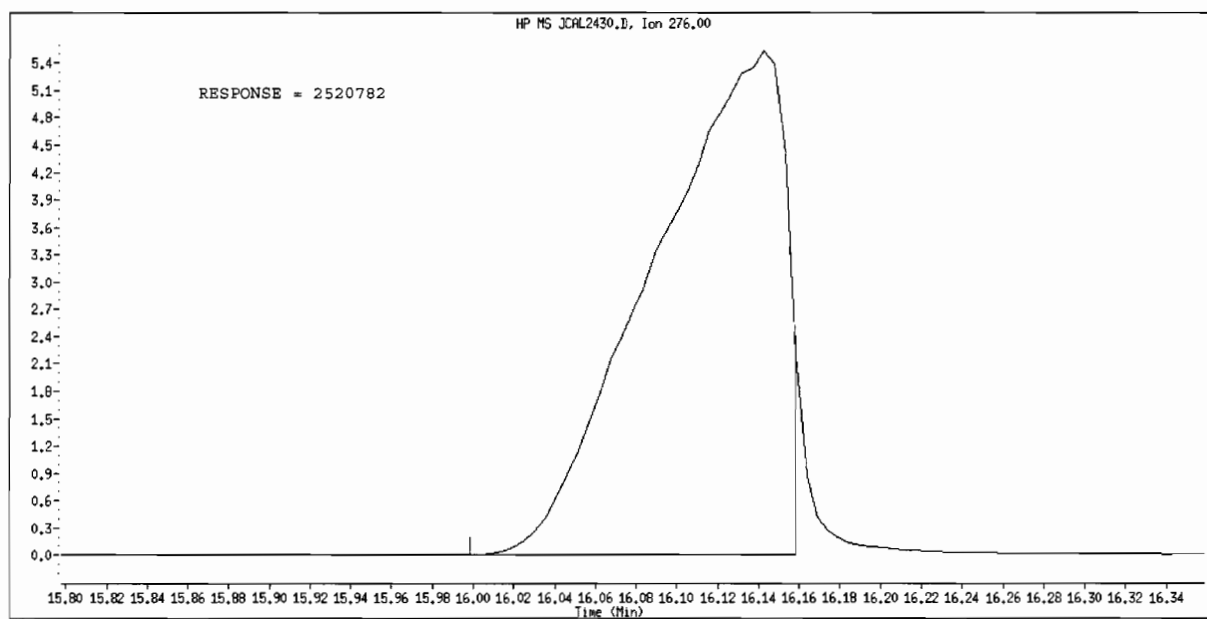
Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2430.D  
Inj. Date and Time: 15-APR-2010 11:38  
Instrument ID: MSJ.i  
Client ID: SSTD160  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Original Integration



Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Report Date: 15-Apr-2010 15:57

Page 1

## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Lab Smp Id: SST120 Client Smp ID: SST120  
 Inj Date : 15-APR-2010 12:03  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SST120  
 Misc Info : SV0099-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 15:57 kuessnrm Quant Type: ISTD  
 Cal Date : 15-APR-2010 12:03 Cal File: JCAL2431.D  
 Als bottle: 5 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 1,4-Dioxane	88			3.006	3.006	(0.547)	175928	120.000	115.9
4 N-Nitrosodimethylamine	74			3.418	3.418	(0.622)	278687	120.000	121.9 (a)
3 Pyridine	79			3.407	3.407	(0.620)	512833	120.000	121.4 (M)
5 Dimethylformamide	44			3.834	3.834	(0.698)	275860	120.000	112.4 (aM)
\$ 10 2-Fluorophenol	112			4.566	4.566	(0.831)	415954	120.000	117.6 (a)
11 Cyclohexanol	57			4.651	4.651	(0.846)	355508	120.000	120.6 (a)
17 Aniline	93			5.282	5.282	(0.961)	410308	120.000	118.8
19 Bis(2-chloroethyl)ether	93			5.314	5.314	(0.967)	445608	120.000	120.8
\$ 15 Phenol-d5	99			5.239	5.239	(0.953)	551898	120.000	122.0 (a)
16 Phenol	94			5.250	5.250	(0.955)	620557	120.000	123.5 (a)
20 2-Chlorophenol	128			5.367	5.367	(0.977)	515739	120.000	123.8 (a)
21 1,3-Dichlorobenzene	146			5.469	5.469	(0.995)	544347	120.000	120.8 (a)
* 22 1,4-Dichlorobenzene-d4	152			5.495	5.495	(1.000)	123300	40.0000	(a)
23 1,4-Dichlorobenzene	146			5.506	5.506	(1.002)	569451	120.000	120.9 (a)
26 1,2-Dichlorobenzene	146			5.650	5.650	(1.028)	524600	120.000	120.1
25 Benzyl Alcohol	108			5.607	5.607	(1.020)	300297	120.000	115.9 (a)
28 2,2-oxybis(1-Chloropropane)	45			5.704	5.704	(1.038)	434666	120.000	118.9
27 2-Methylphenol	108			5.682	5.682	(1.034)	412027	120.000	116.0 (a)
35 Hexachloroethane	117			5.880	5.880	(1.070)	210427	120.000	118.0 (a)
32 N-Nitrosodimethylamine	70			5.832	5.832	(1.061)	329510	120.000	116.2

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Report Date: 15-Apr-2010 15:57

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						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)	
=====	----	----	-----	-----	-----	-----	-----	
29 3 and 4-Methylphenol	107	5.794	5.794	(1.054)	1030985	240.000	237.1 (A)	
\$ 36 Nitrobenzene-d5	82	5.933	5.933	(0.918)	559630	120.000	116.1 (a)	
37 Nitrobenzene	77	5.949	5.949	(0.921)	576750	120.000	119.9 (a)	
39 Isophorone	82	6.115	6.115	(0.946)	908871	120.000	119.5 (a)	
40 2-Nitrophenol	139	6.184	6.184	(0.957)	296586	120.000	128.8 (a)	
41 2,4-Dimethylphenol	107	6.179	6.179	(0.956)	592061	120.000	124.0 (a)	
42 Bis(2-chloroethoxy)methane	93	6.254	6.254	(0.968)	512944	120.000	122.3 (a)	
45 2,4-Dichlorophenol	162	6.355	6.355	(0.983)	416907	120.000	122.6 (a)	
47 1,2,4-Trichlorobenzene	180	6.425	6.425	(0.994)	466673	120.000	124.1 (a)	
* 48 Naphthalene-d8	136	6.462	6.462	(1.000)	436216	40.0000	(a)	
44 Benzoic Acid	122	6.296	6.296	(0.974)	312395	120.000	124.6	
50 Naphthalene	128	6.478	6.478	(1.002)	1465262	120.000	124.9 (a)	
51 4-Chloroaniline	127	6.521	6.521	(1.009)	637932	120.000	124.4 (a)	
54 Hexachlorobutadiene	225	6.596	6.596	(1.021)	317491	120.000	122.1 (a)	
62 2-Methylnaphthalene	142	7.001	7.001	(1.083)	1026299	120.000	122.5	
59 4-Chloro-3-Methylphenol	107	6.857	6.857	(1.061)	472084	120.000	117.5 (a)	
66 Hexachlorocyclopentadiene	237	7.167	7.167	(0.913)	369414	120.000	130.2 (a)	
67 2,4,6-Trichlorophenol	196	7.231	7.231	(0.921)	328335	120.000	125.2 (a)	
68 2,4,5-Trichlorophenol	196	7.263	7.263	(0.925)	360215	120.000	123.8 (a)	
\$ 69 2-Fluorobiphenyl	172	7.290	7.290	(0.929)	1086656	120.000	126.1 (a)	
72 2-Chloronaphthalene	162	7.391	7.391	(0.941)	882419	120.000	126.3 (a)	
73 2-Nitroaniline	65	7.487	7.487	(0.954)	314691	120.000	122.1 (a)	
76 Dimethylphthalate	163	7.621	7.621	(0.971)	1056790	120.000	124.4 (a)	
79 Acenaphthylene	152	7.728	7.728	(0.984)	1378699	120.000	125.5 (a)	
80 2,6-Dinitrotoluene	165	7.696	7.696	(0.980)	244398	120.000	125.1 (a)	
* 82 Acenaphthene-d10	164	7.851	7.851	(1.000)	241454	40.0000	(a)	
83 Acenaphthene	153	7.877	7.877	(1.003)	931324	120.000	127.2 (a)	
81 3-Nitroaniline	138	7.819	7.819	(0.996)	246370	120.000	124.9	
84 2,4-Dinitrophenol	184	7.893	7.893	(1.005)	191202	120.000	120.1 (a)	
86 Dibenzofuran	168	8.000	8.000	(1.019)	1404422	120.000	126.4 (a)	
88 2,4-Dinitrotoluene	165	8.011	8.011	(1.020)	328475	120.000	126.1 (a)	
85 4-Nitrophenol	109	7.915	7.915	(1.008)	201768	120.000	117.0	
93 Diethylphthalate	149	8.176	8.176	(1.041)	1020357	120.000	123.0 (a)	
94 Fluorene	166	8.278	8.278	(1.054)	1068570	120.000	124.6 (a)	
95 4-Chlorophenyl-phenylether	204	8.251	8.251	(1.051)	558120	120.000	125.6 (a)	
98 4-Nitroaniline	138	8.326	8.326	(1.061)	248408	120.000	125.5 (a)	
99 4,6-Dinitro-2-methylphenol	198	8.347	8.347	(0.923)	256919	120.000	131.4 (a)	
100 N-Nitrosodiphenylamine	169	8.358	8.358	(0.924)	759480	120.000	127.7 (a)	
102 Azobenzene	77	8.379	8.379	(0.927)	1079881	120.000	122.0 (a)	
\$ 104 2,4,6-Tribromophenol	330	8.492	8.492	(0.939)	178427	120.000	129.8 (a)	
109 4-Bromophenyl-phenylether	248	8.646	8.646	(0.956)	347920	120.000	127.0 (a)	
112 Hexachlorobenzene	284	8.791	8.791	(0.972)	352402	120.000	124.7 (a)	
117 Pentachlorophenol	266	8.930	8.930	(0.988)	268800	120.000	129.1 (a)	
* 121 Phenanthrene-d10	188	9.042	9.042	(1.000)	474996	40.0000	(a)	
122 Phenanthrene	178	9.063	9.063	(1.002)	1551797	120.000	123.9 (a)	
124 Anthracene	178	9.100	9.100	(1.006)	1611309	120.000	125.4 (a)	
126 Carbazole	167	9.223	9.223	(1.020)	1448113	120.000	125.7 (a)	
129 Di-n-Butylphthalate	149	9.480	9.480	(1.048)	1799024	120.000	126.7 (a)	
134 Fluoranthene	202	10.046	10.046	(1.111)	1688246	120.000	126.1 (a)	
135 Benzidine	184	10.126	10.126	(0.884)	735830	120.000	117.5 (a)	
137 Pyrene	202	10.243	10.243	(0.895)	1788211	120.000	126.2 (a)	
\$ 139 Terphenyl-d14	244	10.334	10.334	(0.903)	1356638	120.000	125.0 (a)	
145 3,3-Dimethylbenzidine	212	10.778	10.778	(0.941)	890480	120.000	121.8	
146 Butylbenzylphthalate	149	10.767	10.767	(0.940)	807033	120.000	126.1 (a)	

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Report Date: 15-Apr-2010 15:57

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Compounds	QUANT SIG	AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
150 Benzo(a)Anthracene	228	11.429	11.429	(0.998)	1591677	120.000	123.2 (a)
* 153 Chrysene-d12	240	11.451	11.451	(1.000)	512182	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.381	11.381	(0.994)	718711	120.000	127.9 (a)
154 Chrysene	228	11.488	11.488	(1.003)	1609689	120.000	123.1 (a)
155 bis(2-ethylhexyl)Phthalate	149	11.360	11.360	(0.992)	1135237	120.000	129.1 (a)
158 Di-n-octylphthalate	149	12.172	12.172	(0.883)	1856217	120.000	127.1 (a)
160 Benzo(b)fluoranthene	252	13.042	13.042	(0.947)	1616153	120.000	122.6 (a)
161 Benzo(k)fluoranthene	252	13.085	13.085	(0.950)	1812565	120.000	125.2 (a)
165 Benzo(a)pyrene	252	13.678	13.678	(0.993)	1629067	120.000	125.1 (a)
* 166 Perylene-d12	264	13.779	13.779	(1.000)	484158	40.0000	(a)
173 Indeno(1,2,3-cd)pyrene	276	16.108	16.108	(1.169)	1882602	120.000	131.2 (aM)
174 Dibenzo(a,h)anthracene	278	16.113	16.113	(1.169)	1697203	120.000	132.7 (a)
177 Benzo(g,h,i)perylene	276	16.642	16.642	(1.208)	1563224	120.000	129.9 (a)

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount  
exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2431.D  
 Report Date: 15-Apr-2010 15:57

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## TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JCAL2431.D  
 Lab Smp Id: SST120  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0099-10

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SST120  
 Level: LOW  
 Sample Type: SOIL

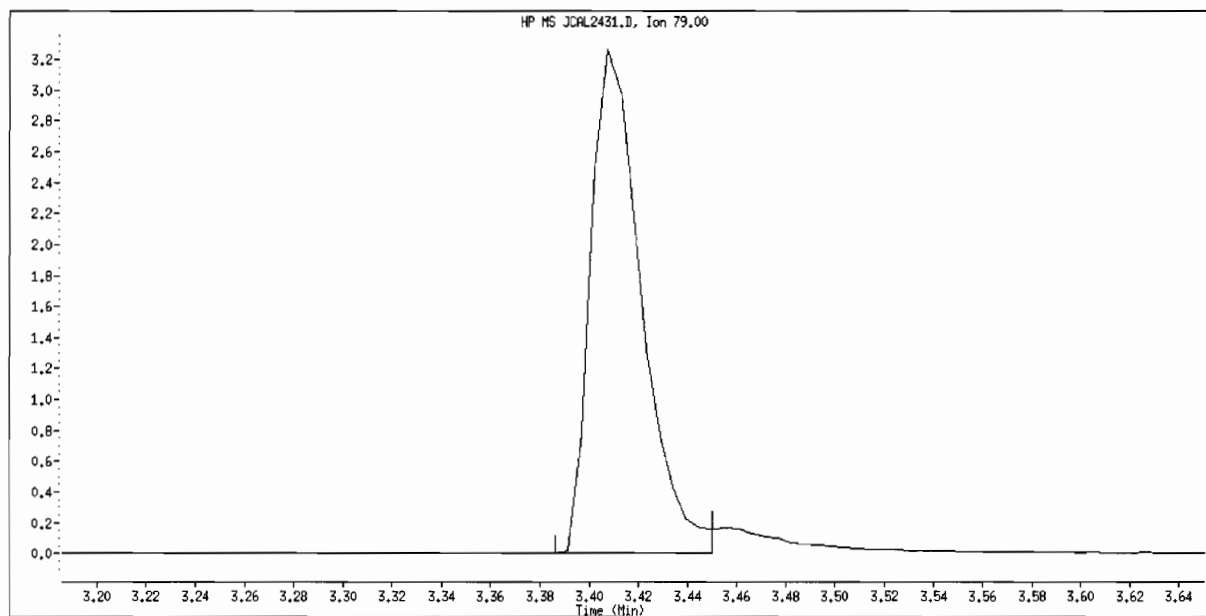
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	123300	20.62
48 Naphthalene-d8	360526	180263	721052	436216	20.99
82 Acenaphthene-d10	206190	103095	412380	241454	17.10
121 Phenanthrene-d10	415780	207890	831560	474996	14.24
153 Chrysene-d12	446285	223143	892570	512182	14.77
166 Perylene-d12	410994	205497	821988	484158	17.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.01
48 Naphthalene-d8	6.46	5.96	6.96	6.46	0.01
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.01
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.01
153 Chrysene-d12	11.45	10.95	11.95	11.45	0.01
166 Perylene-d12	13.78	13.28	14.28	13.78	0.01

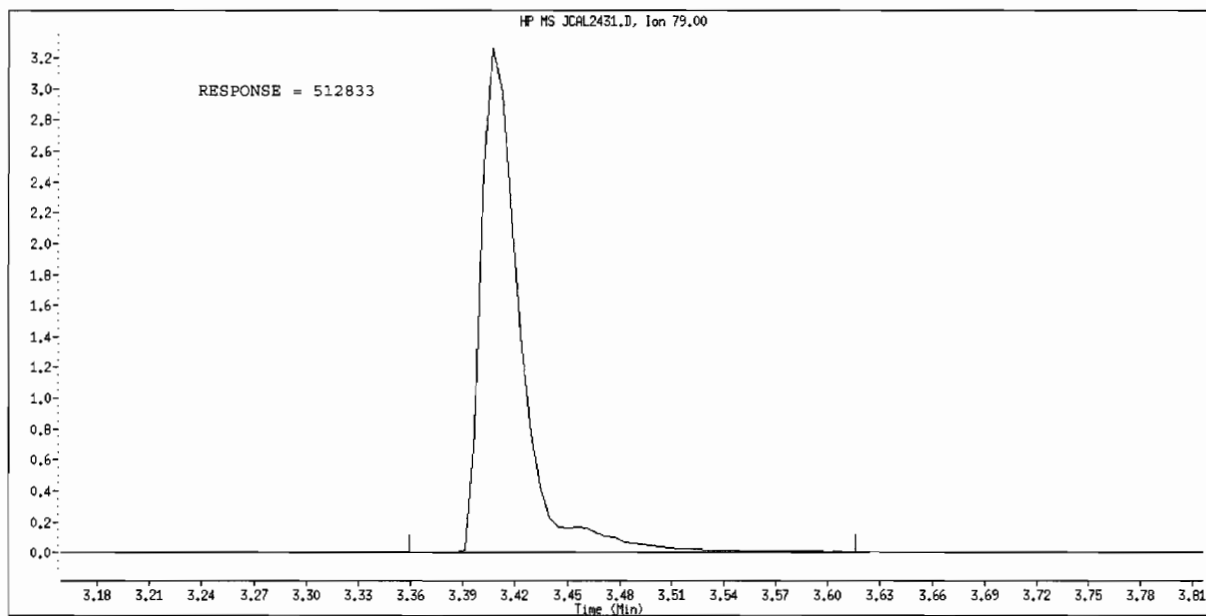
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File Name: JCAL2431.D  
Inj. Date and Time: 15-APR-2010 12:03  
Instrument ID: MSJ.i  
Client ID: SSTDI20  
Compound Name: Pyridine  
CAS #: 110-86-1



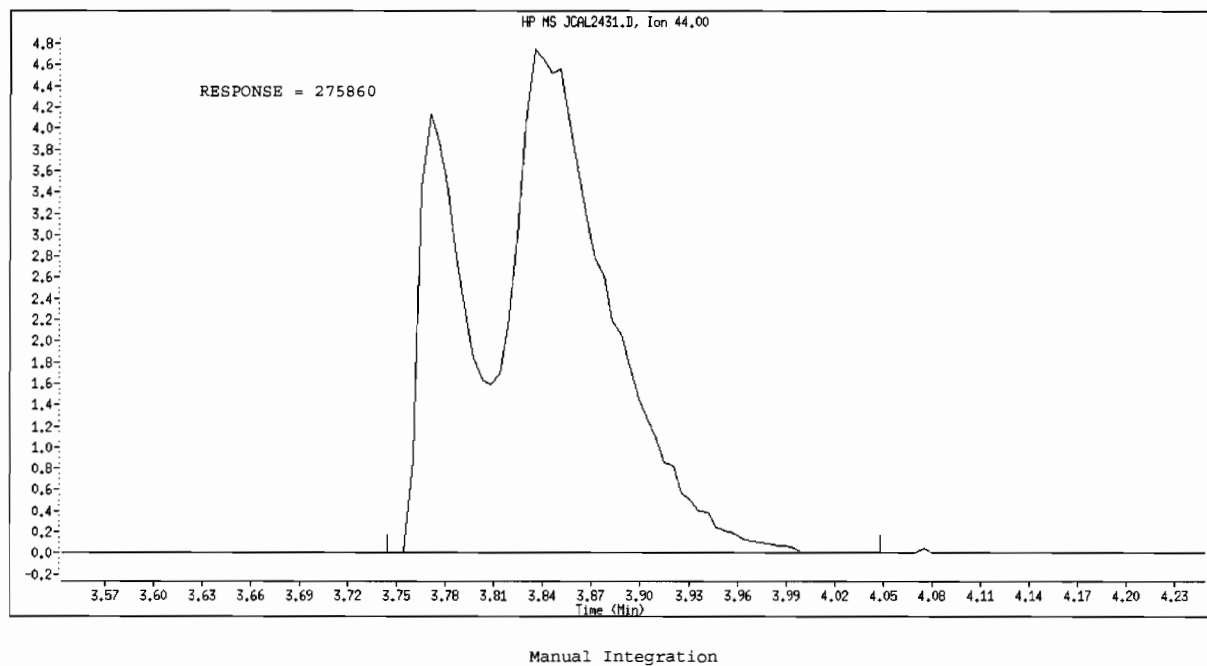
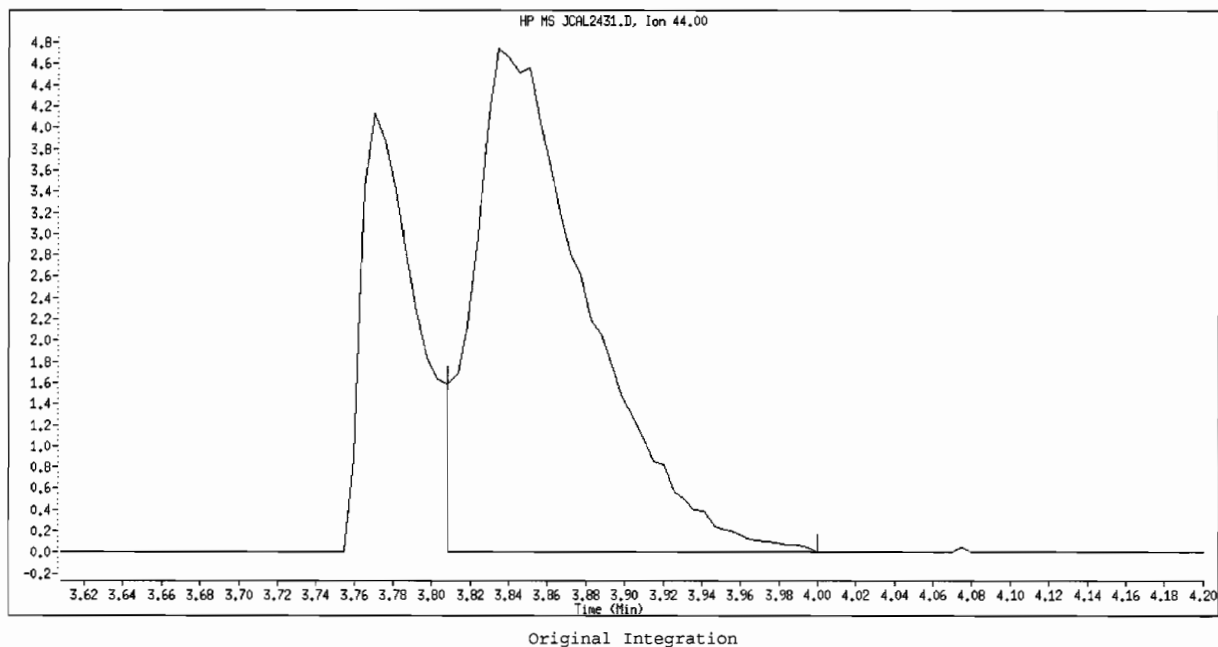
Original Integration



Manual Integration

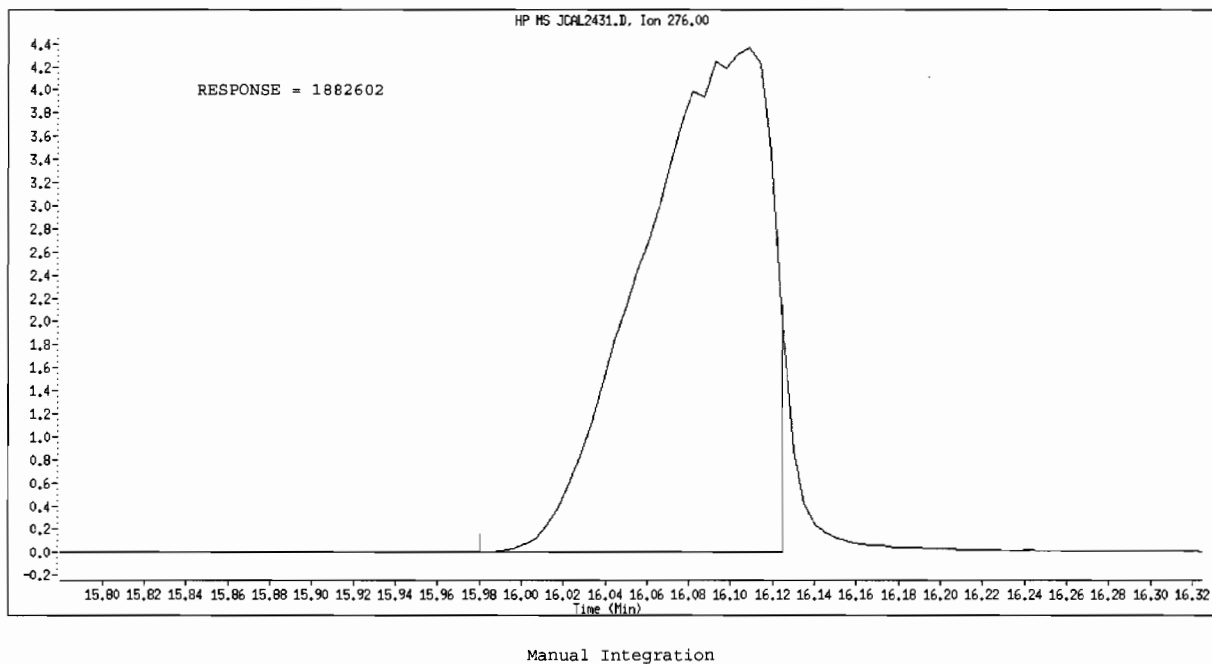
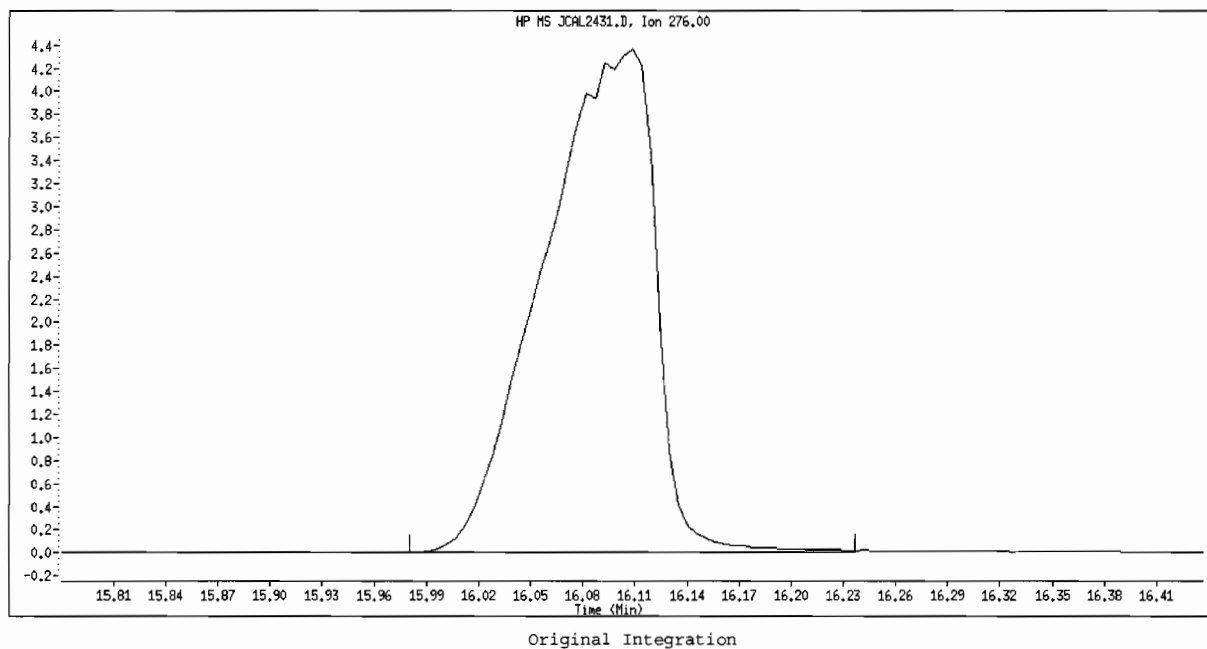
Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2431.D  
Inj. Date and Time: 15-APR-2010 12:03  
Instrument ID: MSJ.i  
Client ID: SSTD120  
Compound Name: Dimethylformamide  
CAS #: 68-12-2



Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2431.D  
Inj. Date and Time: 15-APR-2010 12:03  
Instrument ID: MSJ.i  
Client ID: SST0120  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2432.D  
 Report Date: 15-Apr-2010 15:57

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2432.D  
 Lab Smp Id: SST080 Client Smp ID: SST080  
 Inj Date : 15-APR-2010 12:29  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SST080  
 Misc Info : SV0098-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 15:56 kuessnrm Quant Type: ISTD  
 Cal Date : 15-APR-2010 12:29 Cal File: JCAL2432.D  
 Als bottle: 6 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/mL)	(ug/mL)	
1 1,4-Dioxane	88		2.983	2.983 (0.543)		130942	80.0000	76.90	
4 N-Nitrosodimethylamine	74		3.389	3.389 (0.616)		199578	80.0000	77.79 (a)	
3 Pyridine	79		3.389	3.389 (0.616)		366788	80.0000	77.41	
5 Dimethylformamide	44		3.752	3.752 (0.682)		214571	80.0000	77.90 (aM)	
\$ 10 2-Fluorophenol	112		4.558	4.558 (0.829)		324122	80.0000	81.68 (a)	
11 Cyclohexanol	57		4.644	4.644 (0.845)		267841	80.0000	80.99 (a)	
17 Aniline	93		5.279	5.279 (0.960)		307034	80.0000	79.21	
19 Bis(2-chloroethyl)ether	93		5.311	5.311 (0.966)		339249	80.0000	81.99	
\$ 15 Phenol-d5	99		5.237	5.237 (0.952)		419473	80.0000	82.64 (a)	
16 Phenol	94		5.247	5.247 (0.954)		464312	80.0000	82.38 (a)	
20 2-Chlorophenol	128		5.370	5.370 (0.977)		382599	80.0000	81.85 (a)	
21 1,3-Dichlorobenzene	146		5.472	5.472 (0.995)		404984	80.0000	80.09 (a)	
* 22 1,4-Dichlorobenzene-d4	152		5.498	5.498 (1.000)		138358	40.0000	(a)	
23 1,4-Dichlorobenzene	146		5.509	5.509 (1.002)		434095	80.0000	82.13 (a)	
26 1,2-Dichlorobenzene	146		5.653	5.653 (1.028)		401045	80.0000	81.81	
25 Benzyl Alcohol	108		5.605	5.605 (1.019)		238534	80.0000	82.05 (a)	
28 2,2-oxybis(1-Chloropropane)	45		5.701	5.701 (1.037)		336328	80.0000	81.99	
27 2-Methylphenol	108		5.680	5.680 (1.033)		325350	80.0000	81.63 (a)	
35 Hexachloroethane	117		5.883	5.883 (1.070)		161693	80.0000	80.83 (a)	
32 N-Nitrosodimethylamine	70		5.830	5.830 (1.060)		258342	80.0000	81.20	

Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2432.D  
 Report Date: 15-Apr-2010 15:57

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/mL)	ON-COL (ug/mL)
29 3 and 4-Methylphenol	107	5.792	5.792	(1.053)	823155	160.000	168.7 (A)
\$ 36 Nitrobenzene-d5	82	5.931	5.931	(0.917)	440203	80.0000	80.89 (a)
37 Nitrobenzene	77	5.947	5.947	(0.920)	437161	80.0000	80.46 (a)
39 Isophorone	82	6.118	6.118	(0.946)	705220	80.0000	82.11 (a)
40 2-Nitrophenol	139	6.182	6.182	(0.956)	219300	80.0000	84.35 (a)
41 2,4-Dimethylphenol	107	6.182	6.182	(0.956)	450162	80.0000	83.51 (a)
42 Bis(2-chloroethoxy)methane	93	6.257	6.257	(0.968)	388053	80.0000	81.91 (a)
45 2,4-Dichlorophenol	162	6.353	6.353	(0.983)	317639	80.0000	82.71 (a)
47 1,2,4-Trichlorobenzene	180	6.428	6.428	(0.994)	346035	80.0000	81.45 (a)
* 48 Naphthalene-d8	136	6.465	6.465	(1.000)	492707	40.0000	(a)
44 Benzoic Acid	122	6.289	6.289	(0.973)	244976	80.0000	86.54
50 Naphthalene	128	6.481	6.481	(1.002)	1074350	80.0000	81.10 (a)
51 4-Chloroaniline	127	6.524	6.524	(1.009)	477712	80.0000	82.46 (a)
54 Hexachlorobutadiene	225	6.599	6.599	(1.021)	233156	80.0000	79.38 (a)
62 2-Methylnaphthalene	142	7.005	7.005	(1.083)	767674	80.0000	81.11
59 4-Chloro-3-Methylphenol	107	6.860	6.860	(1.061)	368195	80.0000	81.15 (a)
66 Hexachlorocyclopentadiene	237	7.170	7.170	(0.913)	272952	80.0000	81.87 (a)
67 2,4,6-Trichlorophenol	196	7.234	7.234	(0.921)	253540	80.0000	82.23 (a)
68 2,4,5-Trichlorophenol	196	7.266	7.266	(0.925)	281675	80.0000	82.35 (a)
\$ 69 2-Fluorobiphenyl	172	7.293	7.293	(0.929)	821508	80.0000	81.10 (a)
72 2-Chloronaphthalene	162	7.395	7.395	(0.942)	665650	80.0000	81.06 (a)
73 2-Nitroaniline	65	7.491	7.491	(0.954)	248965	80.0000	82.20 (a)
76 Dimethylphthalate	163	7.624	7.624	(0.971)	808901	80.0000	81.01 (a)
79 Acenaphthylene	152	7.731	7.731	(0.984)	1067897	80.0000	82.73 (a)
80 2,6-Dinitrotoluene	165	7.699	7.699	(0.980)	189880	80.0000	82.73 (a)
* 82 Acenaphthene-d10	164	7.854	7.854	(1.000)	283784	40.0000	(a)
83 Acenaphthene	153	7.881	7.881	(1.003)	709334	80.0000	82.46 (a)
81 3-Nitroaniline	138	7.822	7.822	(0.996)	192785	80.0000	83.18
84 2,4-Dinitrophenol	184	7.897	7.897	(1.005)	147689	80.0000	80.46 (a)
86 Dibenzofuran	168	8.003	8.003	(1.019)	1076500	80.0000	82.45 (a)
88 2,4-Dinitrotoluene	165	8.014	8.014	(1.020)	256544	80.0000	83.78 (a)
85 4-Nitrophenol	109	7.918	7.918	(1.008)	166280	80.0000	82.06
93 Diethylphthalate	149	8.180	8.180	(1.041)	794127	80.0000	81.44 (a)
94 Fluorene	166	8.281	8.281	(1.054)	828406	80.0000	82.20 (a)
95 4-Chlorophenyl-phenylether	204	8.254	8.254	(1.051)	429669	80.0000	82.26 (a)
98 4-Nitroaniline	138	8.324	8.324	(1.060)	196799	80.0000	84.62 (a)
99 4,6-Dinitro-2-methylphenol	198	8.351	8.351	(0.923)	198414	80.0000	85.55 (a)
100 N-Nitrosodiphenylamine	169	8.356	8.356	(0.924)	583272	80.0000	82.68 (a)
102 Azobenzene	77	8.383	8.383	(0.927)	833001	80.0000	79.37 (a)
\$ 104 2,4,6-Tribromophenol	330	8.495	8.495	(0.939)	138005	80.0000	84.64 (a)
109 4-Bromophenyl-phenylether	248	8.650	8.650	(0.956)	267633	80.0000	82.40 (a)
112 Hexachlorobenzene	284	8.794	8.794	(0.972)	272607	80.0000	81.34 (a)
117 Pentachlorophenol	266	8.933	8.933	(0.988)	209763	80.0000	84.98 (a)
* 121 Phenanthrene-d10	188	9.045	9.045	(1.000)	563335	40.0000	(a)
122 Phenanthrene	178	9.066	9.066	(1.002)	1219694	80.0000	82.12 (a)
124 Anthracene	178	9.104	9.104	(1.006)	1253085	80.0000	82.21 (a)
126 Carbazole	167	9.226	9.226	(1.020)	1134061	80.0000	83.03 (a)
129 Di-n-Butylphthalate	149	9.478	9.478	(1.048)	1396773	80.0000	82.94 (a)
134 Fluoranthene	202	10.049	10.049	(1.111)	1327030	80.0000	83.59 (a)
135 Benzidine	184	10.129	10.129	(0.884)	611646	80.0000	80.48 (a)
137 Pyrene	202	10.247	10.247	(0.895)	1396189	80.0000	81.21 (a)
\$ 139 Terphenyl-d14	244	10.332	10.332	(0.902)	1065375	80.0000	80.88 (a)
145 3,3-Dimethylbenzidine	212	10.781	10.781	(0.941)	732543	80.0000	82.54
146 Butylbenzylphthalate	149	10.770	10.770	(0.940)	644333	80.0000	82.97 (a)

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	----	-----	-----	-----	-----	-----
150 Benzo(a)Anthracene	228	11.432	11.432	(0.998)	1271641	80.0000	81.11 (a)
* 153 Chrysene-d12	240	11.454	11.454	(1.000)	621639	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.384	11.384	(0.994)	569649	80.0000	83.53 (a)
154 Chrysene	228	11.491	11.491	(1.003)	1295785	80.0000	81.68 (a)
155 bis(2-ethylhexyl)Phthalate	149	11.363	11.363	(0.992)	899943	80.0000	84.34 (a)
158 Di-n-octylphthalate	149	12.175	12.175	(0.883)	1472639	80.0000	85.72 (a)
160 Benzo(b)fluoranthene	252	13.040	13.040	(0.945)	1278688	80.0000	82.51 (a)
161 Benzo(k)fluoranthene	252	13.088	13.088	(0.949)	1396244	80.0000	82.00 (a)
165 Benzo(a)pyrene	252	13.681	13.681	(0.992)	1265842	80.0000	82.65 (a)
* 166 Perylene-d12	264	13.793	13.793	(1.000)	569412	40.0000	(a)
173 Indeno(1,2,3-cd)pyrene	276	16.090	16.090	(1.167)	1400092	80.0000	82.93 (aM)
174 Dibenzo(a,h)anthracene	278	16.111	16.111	(1.168)	1267963	80.0000	84.29 (a)
177 Benzo(g,h,i)perylene	276	16.640	16.640	(1.206)	1183644	80.0000	83.62 (a)

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount  
exceeded maximum amount.
- M - Compound response manually integrated.



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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

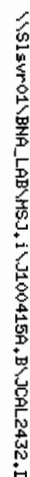
Instrument ID: MSJ.i  
 Lab File ID: JCAL2432.D  
 Lab Smp Id: SST080  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0098-10

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SST080  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	138358	35.35
48 Naphthalene-d8	360526	180263	721052	492707	36.66
82 Acenaphthene-d10	206190	103095	412380	283784	37.63
121 Phenanthrene-d10	415780	207890	831560	563335	35.49
153 Chrysene-d12	446285	223143	892570	621639	39.29
166 Perylene-d12	410994	205497	821988	569412	38.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.07
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.06
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.05
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.04
153 Chrysene-d12	11.45	10.95	11.95	11.45	0.03
166 Perylene-d12	13.78	13.28	14.28	13.79	0.11

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 Name: JCAL2432.D

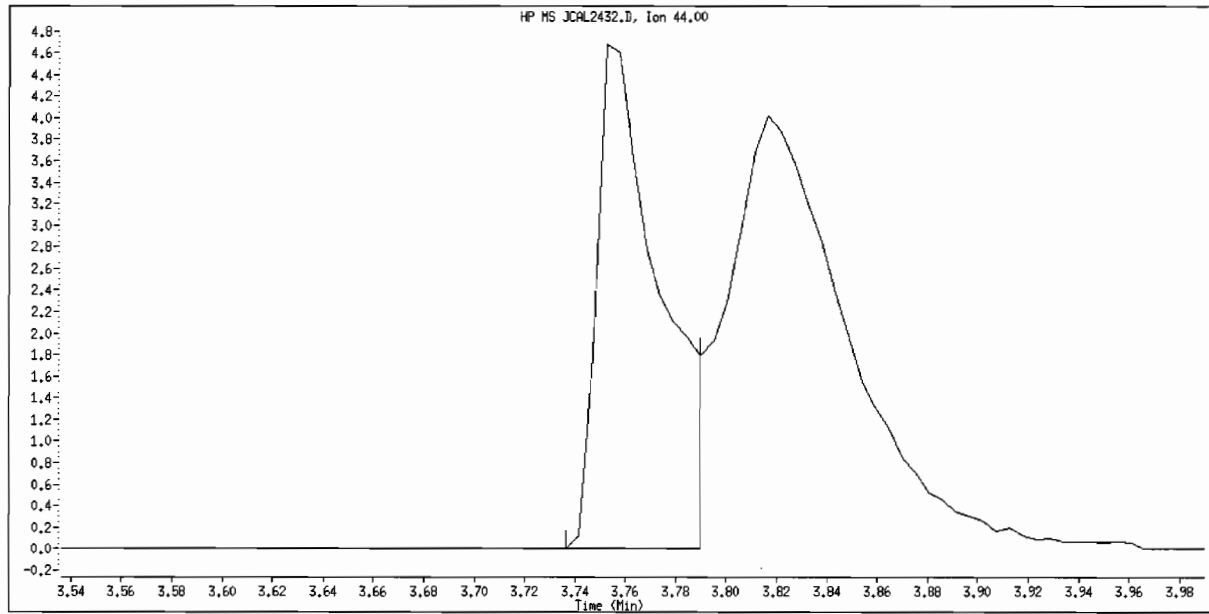
Inj. Date and Time: 15-APR-2010 12:29

Instrument ID: MSJ.i

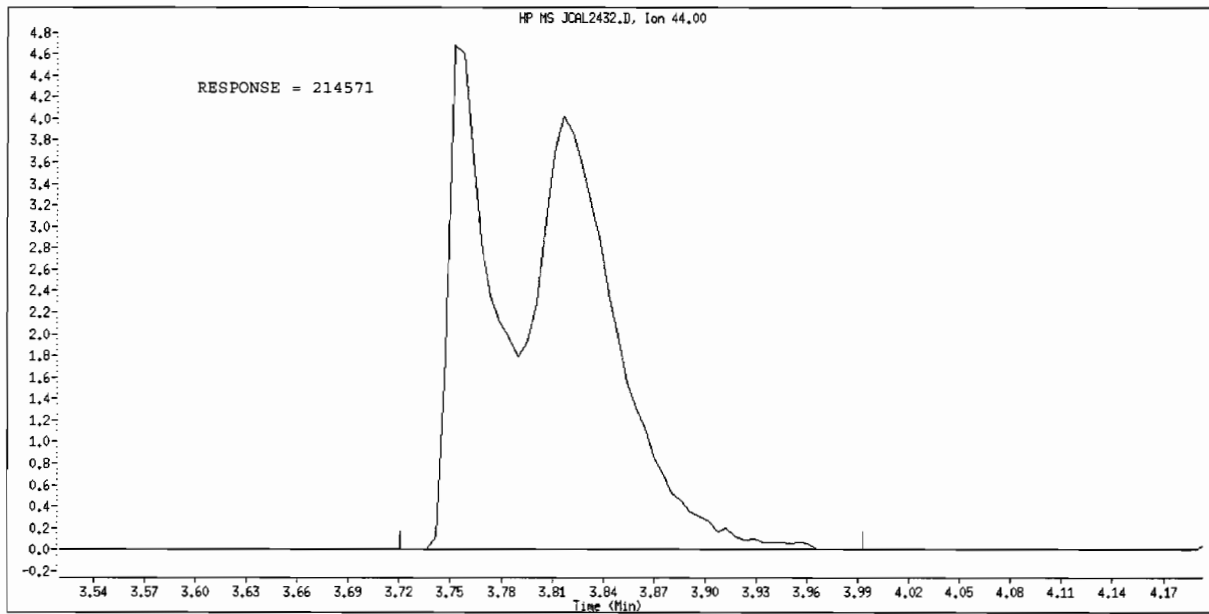
Client ID: SST080

Compound Name: Dimethylformamide

CAS #: 68-12-2



Original Integration

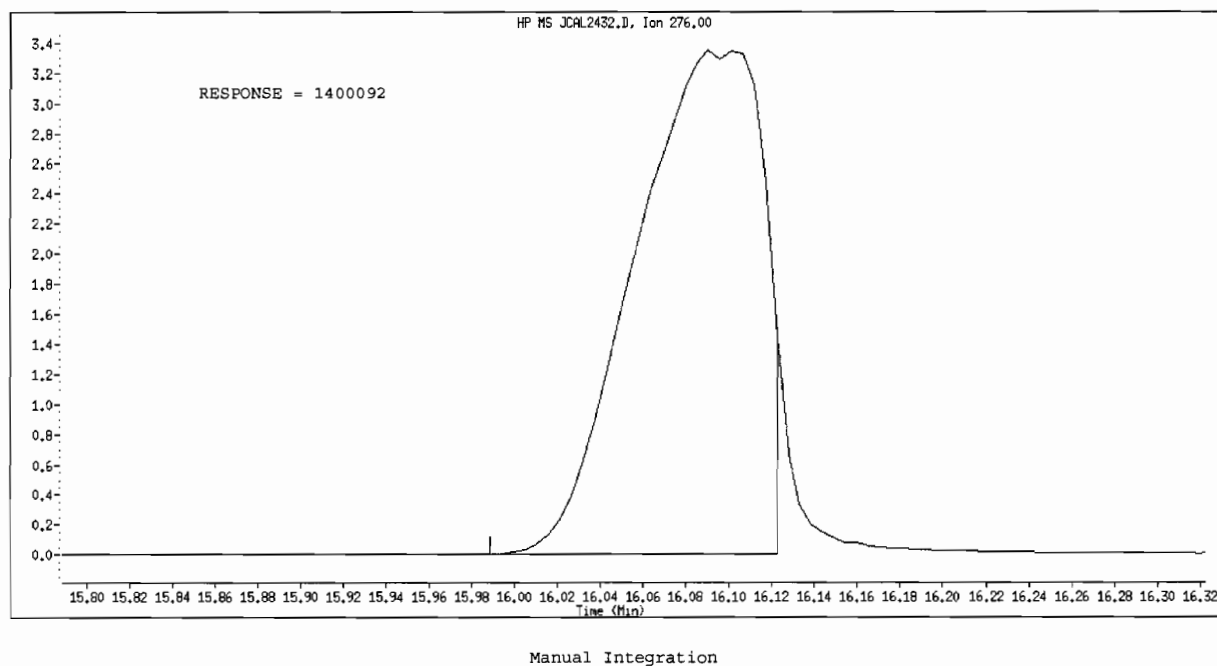
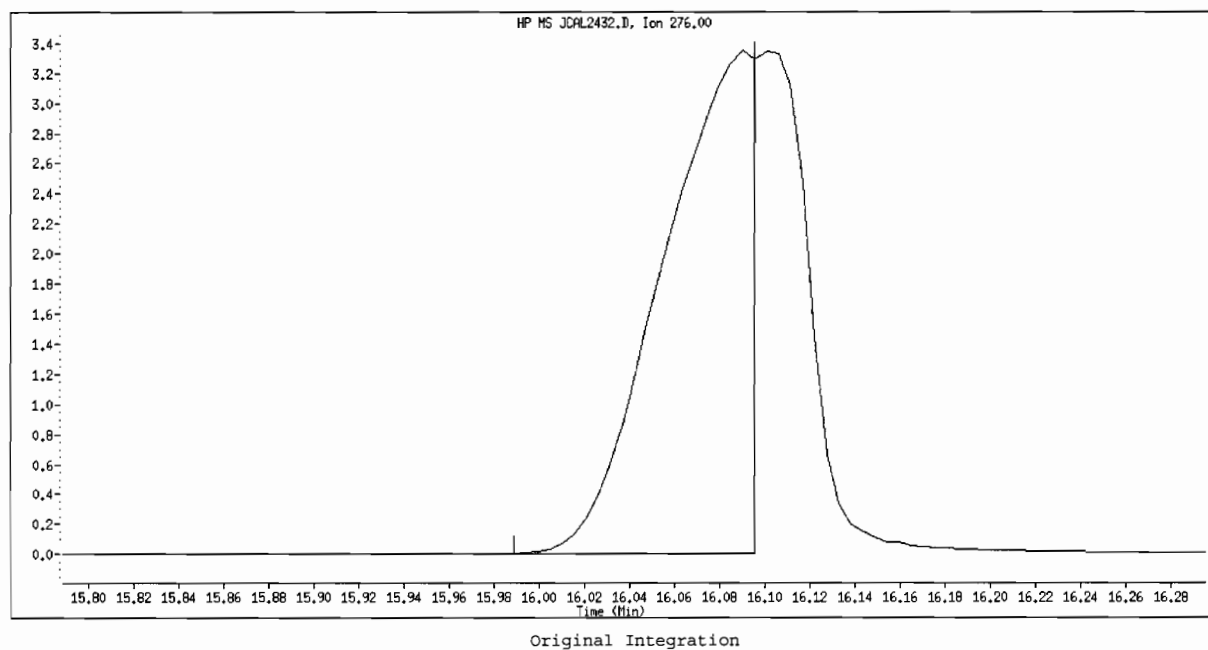


Manual Integration

Manually Integrated By: kuessnerm

Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2432.D  
Inj. Date and Time: 15-APR-2010 12:29  
Instrument ID: MSJ.i  
Client ID: SST080  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

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## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2433.D  
 Lab Smp Id: SST020 Client Smp ID: SST020  
 Inj Date : 15-APR-2010 12:54  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SST020  
 Misc Info : SV0096-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 15:55 kuessner Quant Type: ISTD  
 Cal Date : 15-APR-2010 12:54 Cal File: JCAL2433.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 1,4-Dioxane	88		2.978	2.978	(0.543)	33068	20.0000	21.00
4 N-Nitrosodimethylamine	74		3.373	3.373	(0.615)	48264	20.0000	20.34 (a)
3 Pyridine	79		3.384	3.384	(0.617)	90537	20.0000	20.66 (M)
5 Dimethylformamide	44		3.753	3.753	(0.684)	53372	20.0000	20.96 (aM)
\$ 10 2-Fluorophenol	112		4.543	4.543	(0.828)	74409	20.0000	20.28 (a)
11 Cyclohexanol	57		4.629	4.629	(0.843)	61303	20.0000	20.05 (a)
17 Aniline	93		5.275	5.275	(0.961)	72413	20.0000	20.20
19 Bis(2-chloroethyl)ether	93		5.302	5.302	(0.966)	76889	20.0000	20.10
\$ 15 Phenol-d5	99		5.221	5.221	(0.951)	93273	20.0000	19.87 (a)
16 Phenol	94		5.232	5.232	(0.953)	101964	20.0000	19.56 (a)
20 2-Chlorophenol	128		5.355	5.355	(0.976)	83980	20.0000	19.43 (a)
21 1,3-Dichlorobenzene	146		5.467	5.467	(0.996)	92718	20.0000	19.83 (a)
* 22 1,4-Dichlorobenzene-d4	152		5.488	5.488	(1.000)	127926	40.0000	(a)
23 1,4-Dichlorobenzene	146		5.499	5.499	(1.002)	96316	20.0000	19.71 (a)
26 1,2-Dichlorobenzene	146		5.643	5.643	(1.028)	87446	20.0000	19.29
25 Benzyl Alcohol	108		5.590	5.590	(1.018)	54973	20.0000	20.45 (a)
28 2,2-oxybis(1-Chloropropane)	45		5.697	5.697	(1.038)	76054	20.0000	20.05
27 2-Methylphenol	108		5.670	5.670	(1.033)	76158	20.0000	20.67 (a)
35 Hexachloroethane	117		5.878	5.878	(1.071)	36719	20.0000	19.85 (a)
32 N-Nitrosodimethylamine	70		5.804	5.804	(1.057)	59066	20.0000	20.08

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Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
29 3 and 4-Methylphenol	107		5.772	5.772	(1.052)		177870	40.0000	39.42
\$ 36 Nitrobenzene-d5	82		5.921	5.921	(0.917)		98905	20.0000	20.06 (a)
37 Nitrobenzene	77		5.937	5.937	(0.920)		98486	20.0000	20.00 (a)
39 Isophorone	82		6.097	6.097	(0.945)		150536	20.0000	19.34 (a)
40 2-Nitrophenol	139		6.177	6.177	(0.957)		42586	20.0000	18.08 (a)
41 2,4-Dimethylphenol	107		6.172	6.172	(0.956)		89311	20.0000	18.29 (a)
42 Bis(2-chloroethoxy)methane	93		6.247	6.247	(0.968)		81522	20.0000	18.99 (a)
45 2,4-Dichlorophenol	162		6.343	6.343	(0.983)		63129	20.0000	18.14 (a)
47 1,2,4-Trichlorobenzene	180		6.418	6.418	(0.994)		72381	20.0000	18.80 (a)
* 48 Naphthalene-d8	136		6.455	6.455	(1.000)		446405	40.0000	(a)
44 Benzoic Acid	122		6.231	6.231	(0.965)		49942	20.0000	19.47
50 Naphthalene	128		6.471	6.471	(1.002)		226137	20.0000	18.84 (a)
51 4-Chloroaniline	127		6.514	6.514	(1.009)		96904	20.0000	18.46 (a)
54 Hexachlorobutadiene	225		6.594	6.594	(1.022)		53794	20.0000	20.22 (a)
62 2-Methylnaphthalene	142		6.995	6.995	(1.084)		169144	20.0000	19.72
59 4-Chloro-3-Methylphenol	107		6.856	6.856	(1.062)		85022	20.0000	20.68 (a)
66 Hexachlorocyclopentadiene	237		7.166	7.166	(0.914)		58973	20.0000	18.47 (a)
67 2,4,6-Trichlorophenol	196		7.230	7.230	(0.922)		55747	20.0000	18.88 (a)
68 2,4,5-Trichlorophenol	196		7.256	7.256	(0.925)		62991	20.0000	19.23 (a)
\$ 69 2-Fluorobiphenyl	172		7.283	7.283	(0.928)		184922	20.0000	19.06 (a)
72 2-Chloronaphthalene	162		7.385	7.385	(0.941)		148075	20.0000	18.83 (a)
73 2-Nitroaniline	65		7.475	7.475	(0.953)		57204	20.0000	19.72 (a)
76 Dimethylphthalate	163		7.614	7.614	(0.971)		184283	20.0000	19.27 (a)
79 Acenaphthylene	152		7.726	7.726	(0.985)		233981	20.0000	18.92 (a)
80 2,6-Dinitrotoluene	165		7.684	7.684	(0.980)		42155	20.0000	19.18 (a)
* 82 Acenaphthene-d10	164		7.844	7.844	(1.000)		271804	40.0000	(a)
83 Acenaphthene	153		7.871	7.871	(1.003)		157324	20.0000	19.09 (a)
81 3-Nitroaniline	138		7.806	7.806	(0.995)		43458	20.0000	19.58
84 2,4-Dinitrophenol	184		7.881	7.881	(1.005)		29770	20.0000	20.50 (a)
86 Dibenzofuran	168		7.993	7.993	(1.019)		241939	20.0000	19.35 (a)
88 2,4-Dinitrotoluene	165		7.999	7.999	(1.020)		56912	20.0000	19.40 (a)
85 4-Nitrophenol	109		7.903	7.903	(1.007)		38525	20.0000	19.85
93 Diethylphthalate	149		8.170	8.170	(1.042)		179668	20.0000	19.24 (a)
94 Fluorene	166		8.271	8.271	(1.054)		186600	20.0000	19.33 (a)
95 4-Chlorophenyl-phenylether	204		8.244	8.244	(1.051)		94586	20.0000	18.90 (a)
98 4-Nitroaniline	138		8.303	8.303	(1.059)		44247	20.0000	19.86 (a)
99 4,6-Dinitro-2-methylphenol	198		8.330	8.330	(0.921)		40805	20.0000	18.54 (a)
100 N-Nitrosodiphenylamine	169		8.346	8.346	(0.923)		128777	20.0000	19.24 (a)
102 Azobenzene	77		8.373	8.373	(0.926)		196599	20.0000	19.74 (a)
\$ 104 2,4,6-Tribromophenol	330		8.485	8.485	(0.939)		30195	20.0000	19.52 (a)
109 4-Bromophenyl-phenylether	248		8.640	8.640	(0.956)		59432	20.0000	19.29 (a)
112 Hexachlorobenzene	284		8.784	8.784	(0.972)		60725	20.0000	19.10 (a)
117 Pentachlorophenol	266		8.923	8.923	(0.987)		43453	20.0000	18.56 (a)
* 121 Phenanthrene-d10	188		9.040	9.040	(1.000)		534436	40.0000	(a)
122 Phenanthrene	178		9.056	9.056	(1.002)		267745	20.0000	19.00 (a)
124 Anthracene	178		9.094	9.094	(1.006)		277352	20.0000	19.18 (a)
126 Carbazole	167		9.217	9.217	(1.019)		251753	20.0000	19.43 (a)
129 Di-n-Butylphthalate	149		9.473	9.473	(1.048)		302045	20.0000	18.90 (a)
134 Fluoranthene	202		10.039	10.039	(1.110)		289385	20.0000	19.21 (a)
135 Benzidine	184		10.119	10.119	(0.884)		147817	20.0000	20.95 (a)
137 Pyrene	202		10.237	10.237	(0.895)		304257	20.0000	19.06 (a)
\$ 139 Terphenyl-d14	244		10.327	10.327	(0.902)		231589	20.0000	18.94 (a)
145 3,3-Dimethylbenzidine	212		10.771	10.771	(0.941)		170956	20.0000	20.75
146 Butylbenzylphthalate	149		10.760	10.760	(0.940)		135256	20.0000	18.76 (a)

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						AMOUNTS	
		QUANT		SIG		CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	----	----	-----	-----	-----	-----	-----
150 Benzo(a)Anthracene	228	11.417	11.417	(0.998)	281735	20.0000	19.36 (a)
* 153 Chrysene-d12	240	11.444	11.444	(1.000)	577090	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.369	11.369	(0.993)	117804	20.0000	18.61 (a)
154 Chrysene	228	11.476	11.476	(1.003)	285215	20.0000	19.36 (a)
155 bis(2-ethylhexyl)Phthalate	149	11.353	11.353	(0.992)	182833	20.0000	18.46 (a)
158 Di-n-octylphthalate	149	12.165	12.165	(0.883)	292224	20.0000	18.64 (a)
160 Benzo(b)fluoranthene	252	13.014	13.014	(0.945)	274858	20.0000	19.44 (a)
161 Benzo(k)fluoranthene	252	13.057	13.057	(0.948)	295934	20.0000	19.05 (a)
165 Benzo(a)pyrene	252	13.644	13.644	(0.991)	265042	20.0000	18.97 (a)
* 166 Perylene-d12	264	13.772	13.772	(1.000)	519458	40.0000	(a)
173 Indeno(1,2,3-cd)pyrene	276	16.042	16.042	(1.165)	265796	20.0000	17.26 (aM)
174 Dibenzo(a,h)anthracene	278	16.053	16.053	(1.166)	231485	20.0000	16.87 (a)
177 Benzo(g,h,i)perylene	276	16.587	16.587	(1.204)	229208	20.0000	17.75 (a)

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).  
 M - Compound response manually integrated.

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2433.D  
 Report Date: 15-Apr-2010 15:55

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

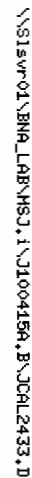
Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JCAL2433.D Calibration Time: 11:13  
 Lab Smp Id: SST020 Client Smp ID: SST020  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0096-10

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	127926	25.14
48 Naphthalene-d8	360526	180263	721052	446405	23.82
82 Acenaphthene-d10	206190	103095	412380	271804	31.82
121 Phenanthrene-d10	415780	207890	831560	534436	28.54
153 Chrysene-d12	446285	223143	892570	577090	29.31
166 Perylene-d12	410994	205497	821988	519458	26.39

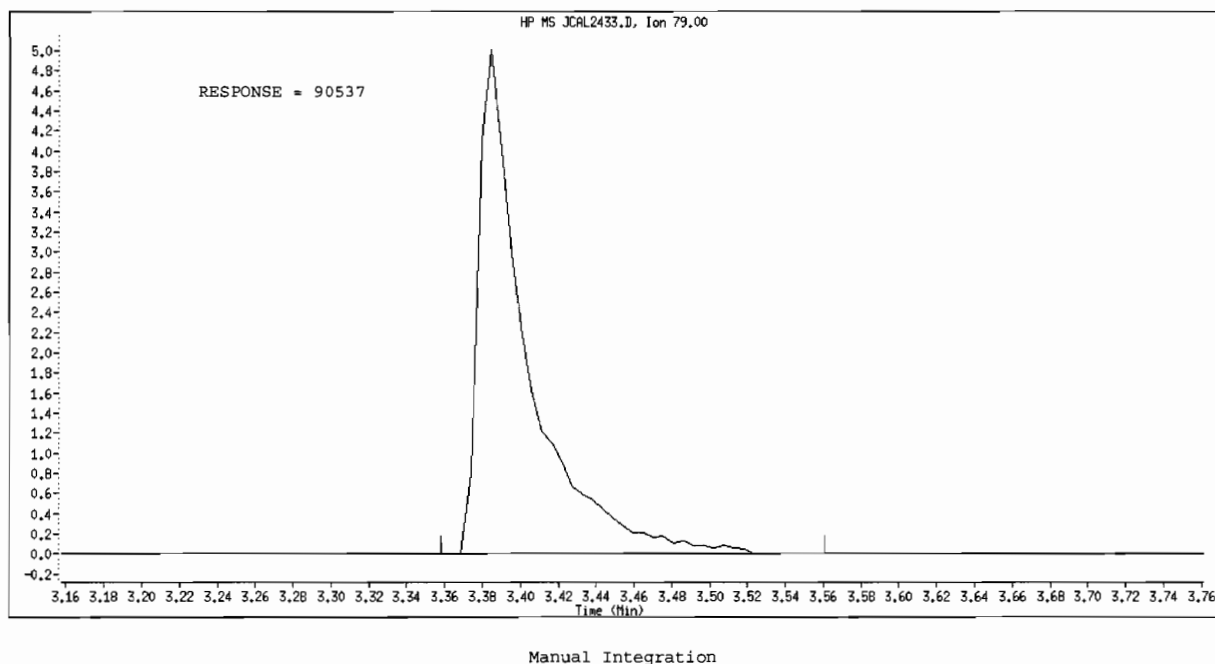
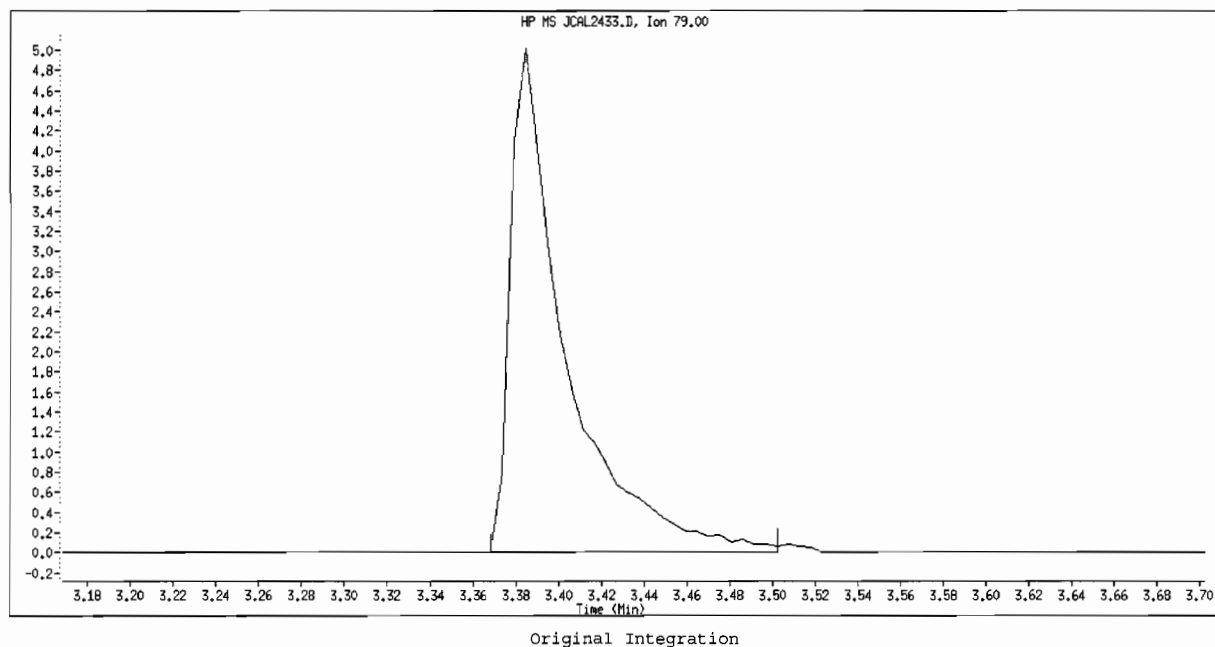
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.11
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.09
82 Acenaphthene-d10	7.85	7.35	8.35	7.84	-0.08
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.01
153 Chrysene-d12	11.45	10.95	11.95	11.44	-0.05
166 Perylene-d12	13.78	13.28	14.28	13.77	-0.04

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.



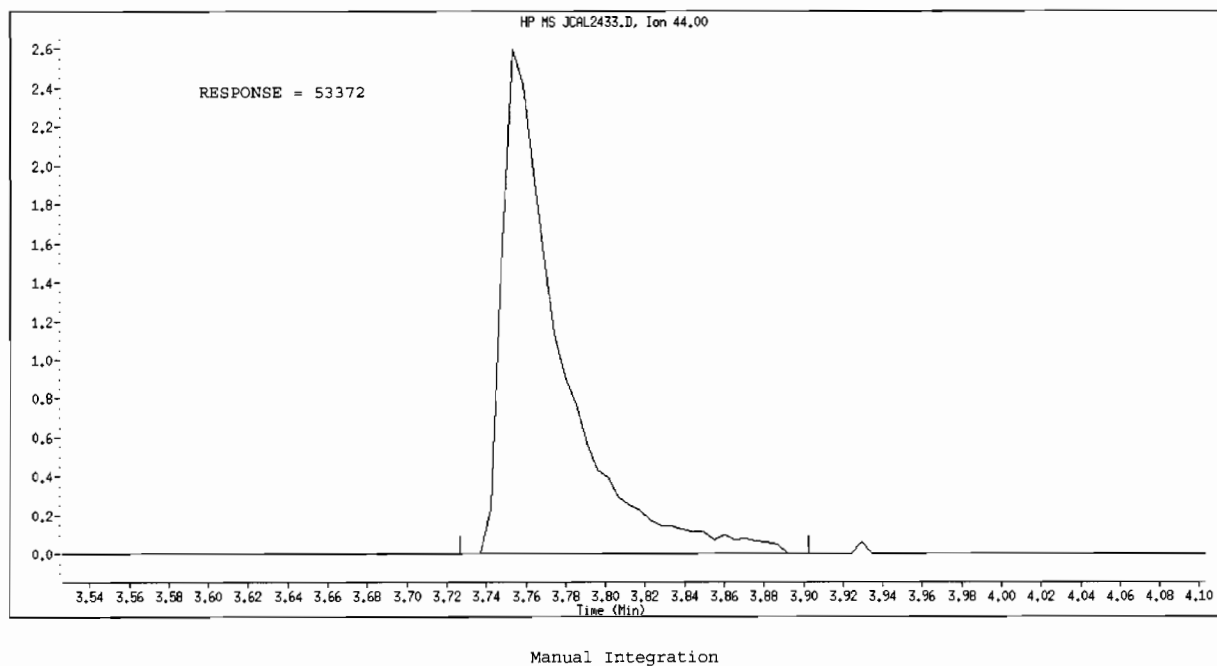
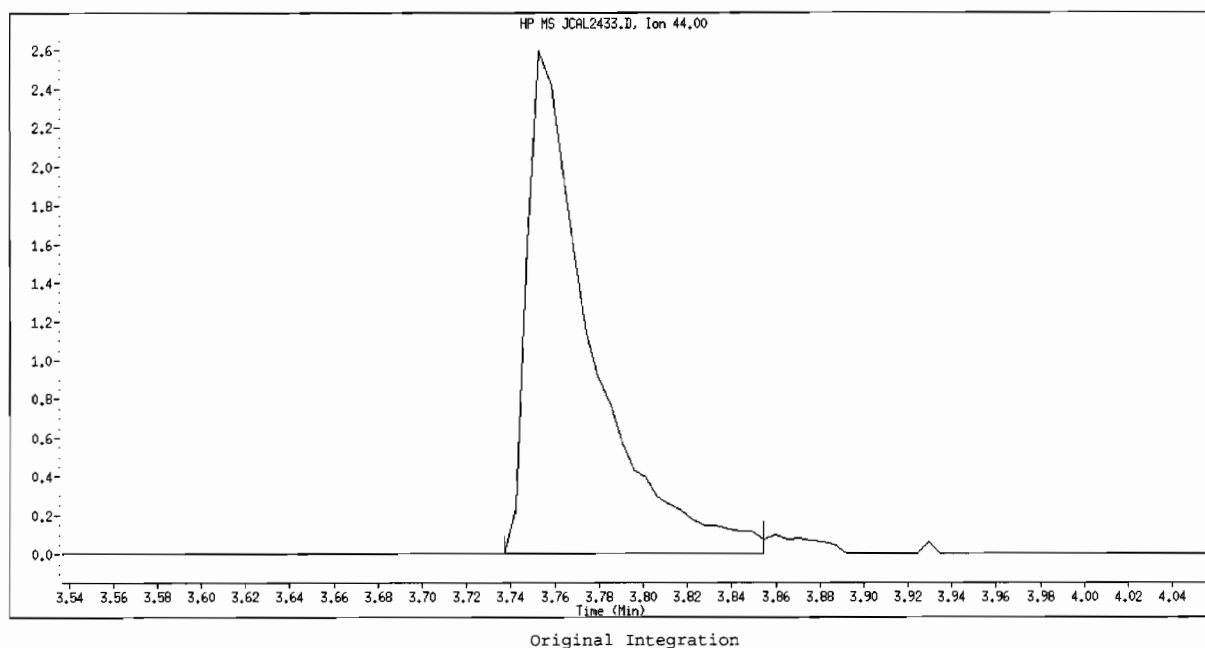


Data File Name: JCAL2433.D  
Inj. Date and Time: 15-APR-2010 12:54  
Instrument ID: MSJ.i  
Client ID: SST020  
Compound Name: Pyridine  
CAS #: 110-86-1



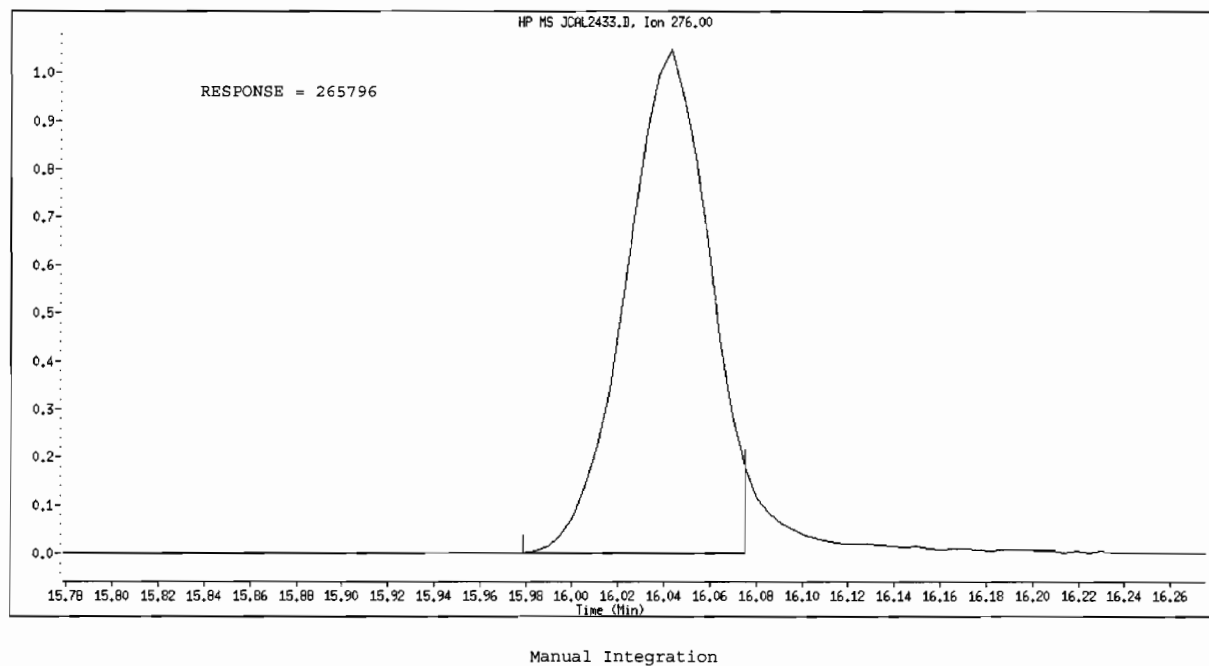
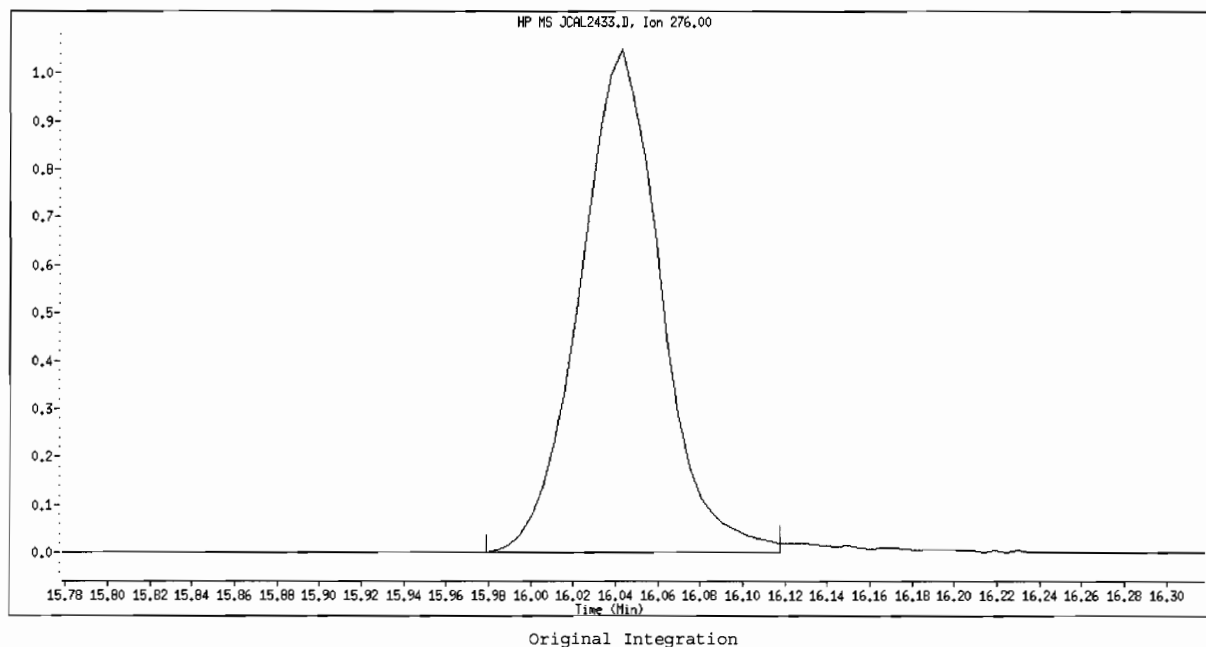
Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2433.D  
Inj. Date and Time: 15-APR-2010 12:54  
Instrument ID: MSJ.i  
Client ID: SST0020  
Compound Name: Dimethylformamide  
CAS #: 68-12-2



Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2433.D  
Inj. Date and Time: 15-APR-2010 12:54  
Instrument ID: MSJ.i  
Client ID: SSTD020  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
 Report Date: 15-Apr-2010 15:55

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
 Lab Smp Id: SST010 Client Smp ID: SST010  
 Inj Date : 15-APR-2010 13:20  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SST010  
 Misc Info : SV0095-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 15:55 kuessnrm Quant Type: ISTD  
 Cal Date : 15-APR-2010 13:20 Cal File: JCAL2434.D  
 Als bottle: 8 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/mL)	(ug/mL)	
=====	====		====	=====	=====	=====	=====	=====	
1 1,4-Dioxane	88		2.988	2.988 (0.543)		14388	10.0000	10.19	
4 N-Nitrosodimethylamine	74		3.388	3.388 (0.616)		21172	10.0000	9.952 (a)	
3 Pyridine	79		3.399	3.399 (0.618)		38698	10.0000	9.849 (aM)	
5 Dimethylformamide	44		3.767	3.767 (0.685)		24647	10.0000	10.79 (aM)	
\$ 10 2-Fluorophenol	112		4.547	4.547 (0.827)		32639	10.0000	9.920 (a)	
11 Cyclohexanol	57		4.638	4.638 (0.844)		26535	10.0000	9.676 (a)	
17 Aniline	93		5.279	5.279 (0.960)		34231	10.0000	10.65	
19 Bis(2-chloroethyl)ether	93		5.306	5.306 (0.965)		32033	10.0000	9.336 (a)	
\$ 15 Phenol-d5	99		5.225	5.225 (0.950)		39401	10.0000	9.361 (a)	
16 Phenol	94		5.236	5.236 (0.952)		43825	10.0000	9.377 (a)	
20 2-Chlorophenol	128		5.364	5.364 (0.976)		36813	10.0000	9.498 (a)	
21 1,3-Dichlorobenzene	146		5.471	5.471 (0.995)		40410	10.0000	9.638 (a)	
* 22 1,4-Dichlorobenzene-d4	152		5.498	5.498 (1.000)		114724	40.0000	(a)	
23 1,4-Dichlorobenzene	146		5.509	5.509 (1.002)		42085	10.0000	9.603 (a)	
26 1,2-Dichlorobenzene	146		5.653	5.653 (1.028)		38168	10.0000	9.390 (a)	
25 Benzyl Alcohol	108		5.599	5.599 (1.018)		22616	10.0000	9.382 (a)	
28 2,2-oxybis(1-Chloropropane)	45		5.701	5.701 (1.037)		32882	10.0000	9.667 (a)	
27 2-Methylphenol	108		5.674	5.674 (1.032)		32777	10.0000	9.918 (a)	
35 Hexachloroethane	117		5.882	5.882 (1.070)		15881	10.0000	9.575 (a)	
32 N-Nitrosodimethylamine	70		5.808	5.808 (1.056)		25989	10.0000	9.852 (a)	

Data File: \\slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
Report Date: 15-Apr-2010 15:55

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Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
29 3 and 4-Methylphenol	107	5.781	5.781 (1.051)		76511	20.0000	18.91
\$ 36 Nitrobenzene-d5	82	5.930	5.930 (0.917)		44216	10.0000	9.693 (a)
37 Nitrobenzene	77	5.941	5.941 (0.919)		43891	10.0000	9.637 (a)
39 Isophorone	82	6.101	6.101 (0.944)		68666	10.0000	9.538 (a)
40 2-Nitrophenol	139	6.181	6.181 (0.956)		18907	10.0000	8.676 (a)
41 2,4-Dimethylphenol	107	6.176	6.176 (0.955)		42125	10.0000	9.323 (a)
42 Bis(2-chloroethoxy)methane	93	6.251	6.251 (0.967)		37134	10.0000	9.351 (a)
45 2,4-Dichlorophenol	162	6.352	6.352 (0.983)		30474	10.0000	9.466 (a)
47 1,2,4-Trichlorobenzene	180	6.427	6.427 (0.994)		33148	10.0000	9.308 (a)
* 48 Naphthalene-d8	136	6.465	6.465 (1.000)		413002	40.0000	(a)
44 Benzoic Acid	122	6.224	6.224 (0.963)		19080	10.0000	8.041 (a)
50 Naphthalene	128	6.481	6.481 (1.002)		102453	10.0000	9.227 (a)
51 4-Chloroaniline	127	6.518	6.518 (1.008)		44157	10.0000	9.093 (a)
54 Hexachlorobutadiene	225	6.598	6.598 (1.021)		22087	10.0000	8.971 (a)
62 2-Methylnaphthalene	142	7.004	7.004 (1.083)		71520	10.0000	9.015 (a)
59 4-Chloro-3-Methylphenol	107	6.860	6.860 (1.061)		35260	10.0000	9.271 (a)
66 Hexachlorocyclopentadiene	237	7.175	7.175 (0.914)		22862	10.0000	8.143 (a)
67 2,4,6-Trichlorophenol	196	7.234	7.234 (0.921)		23195	10.0000	8.934 (a)
68 2,4,5-Trichlorophenol	196	7.266	7.266 (0.925)		26462	10.0000	9.187 (a)
\$ 69 2-Fluorobiphenyl	172	7.287	7.287 (0.928)		78420	10.0000	9.193 (a)
72 2-Chloronaphthalene	162	7.389	7.389 (0.941)		64236	10.0000	9.290 (a)
73 2-Nitroaniline	65	7.485	7.485 (0.953)		23838	10.0000	9.347 (a)
76 Dimethylphthalate	163	7.618	7.618 (0.970)		77018	10.0000	9.160 (a)
79 Acenaphthylene	152	7.730	7.730 (0.984)		99527	10.0000	9.156 (a)
80 2,6-Dinitrotoluene	165	7.693	7.693 (0.980)		17047	10.0000	8.820 (a)
* 82 Acenaphthene-d10	164	7.853	7.853 (1.000)		238965	40.0000	(a)
83 Acenaphthene	153	7.875	7.875 (1.003)		65689	10.0000	9.068 (a)
81 3-Nitroaniline	138	7.811	7.811 (0.995)		17620	10.0000	9.029 (a)
84 2,4-Dinitrophenol	184	7.885	7.885 (1.004)		10060	10.0000	10.66 (a)
86 Dibenzofuran	168	7.997	7.997 (1.018)		99265	10.0000	9.029 (a)
88 2,4-Dinitrotoluene	165	8.008	8.008 (1.020)		22554	10.0000	8.747 (a)
85 4-Nitrophenol	109	7.907	7.907 (1.007)		15707	10.0000	9.205 (a)
93 Diethylphthalate	149	8.174	8.174 (1.041)		75356	10.0000	9.178 (a)
94 Fluorene	166	8.275	8.275 (1.054)		75859	10.0000	8.940 (a)
95 4-Chlorophenyl-phenylether	204	8.254	8.254 (1.051)		39729	10.0000	9.032 (a)
98 4-Nitroaniline	138	8.307	8.307 (1.058)		17000	10.0000	8.681 (a)
99 4,6-Dinitro-2-methylphenol	198	8.334	8.334 (0.921)		14603	10.0000	7.633 (a)
100 N-Nitrosodiphenylamine	169	8.350	8.350 (0.923)		51443	10.0000	8.840 (a)
102 Azobenzene	77	8.377	8.377 (0.926)		81511	10.0000	9.416 (a)
\$ 104 2,4,6-Tribromophenol	330	8.489	8.489 (0.939)		10880	10.0000	8.090 (a)
109 4-Bromophenyl-phenylether	248	8.649	8.649 (0.956)		23402	10.0000	8.734 (a)
112 Hexachlorobenzene	284	8.793	8.793 (0.972)		25565	10.0000	9.248 (a)
117 Pentachlorophenol	266	8.927	8.927 (0.987)		17373	10.0000	8.532 (a)
* 121 Phenanthrene-d10	188	9.044	9.044 (1.000)		464676	40.0000	(a)
122 Phenanthrene	178	9.066	9.066 (1.002)		113258	10.0000	9.245 (a)
124 Anthracene	178	9.098	9.098 (1.006)		115875	10.0000	9.216 (a)
126 Carbazole	167	9.221	9.221 (1.019)		99457	10.0000	8.828 (a)
129 Di-n-Butylphthalate	149	9.477	9.477 (1.048)		121089	10.0000	8.717 (a)
134 Fluoranthene	202	10.048	10.048 (1.111)		111450	10.0000	8.511 (a)
135 Benzidine	184	10.129	10.129 (0.884)		62587	10.0000	10.16 (a)
137 Pyrene	202	10.241	10.241 (0.894)		125091	10.0000	8.977 (a)
\$ 139 Terphenyl-d14	244	10.331	10.331 (0.902)		96216	10.0000	9.012 (a)
145 3,3-Dimethylbenzidine	212	10.780	10.780 (0.941)		68548	10.0000	9.530 (a)
146 Butylbenzylphthalate	149	10.769	10.769 (0.940)		55129	10.0000	8.758 (a)

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
 Report Date: 15-Apr-2010 15:55

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Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====	=====	=====	=====	=====	=====	=====	=====
150 Benzo (a) Anthracene	228	11.426	11.426	(0.998)	117428	10.0000	9.241 (a)
* 153 Chrysene-d12	240	11.453	11.453	(1.000)	503835	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.378	11.378	(0.993)	47271	10.0000	8.552 (a)
154 Chrysene	228	11.480	11.480	(1.002)	119466	10.0000	9.291 (a)
155 bis(2-ethylhexyl) Phthalate	149	11.362	11.362	(0.992)	71926	10.0000	8.317 (a)
158 Di-n-octylphthalate	149	12.174	12.174	(0.883)	110996	10.0000	8.130 (a)
160 Benzo (b) fluoranthene	252	13.023	13.023	(0.945)	111240	10.0000	9.032 (a)
161 Benzo (k) fluoranthene	252	13.066	13.066	(0.948)	123204	10.0000	9.105 (a)
165 Benzo (a) pyrene	252	13.659	13.659	(0.991)	108714	10.0000	8.931 (a)
* 166 Perylene-d12	264	13.787	13.787	(1.000)	452518	40.0000	(a)
173 Indeno (1,2,3-cd) pyrene	276	16.052	16.052	(1.164)	111060	10.0000	8.278 (aM)
174 Dibenzo (a,h) anthracene	278	16.068	16.068	(1.165)	98105	10.0000	8.206 (a)
177 Benzo (g,h,i) perylene	276	16.597	16.597	(1.204)	97572	10.0000	8.674 (a)

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).  
 M - Compound response manually integrated.

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2434.D  
 Report Date: 15-Apr-2010 15:55

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JCAL2434.D  
 Lab Smp Id: SST010  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0095-10

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SST010  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	114724	12.23
48 Naphthalene-d8	360526	180263	721052	413002	14.56
82 Acenaphthene-d10	206190	103095	412380	238965	15.90
121 Phenanthrene-d10	415780	207890	831560	464676	11.76
153 Chrysene-d12	446285	223143	892570	503835	12.90
166 Perylene-d12	410994	205497	821988	452518	10.10

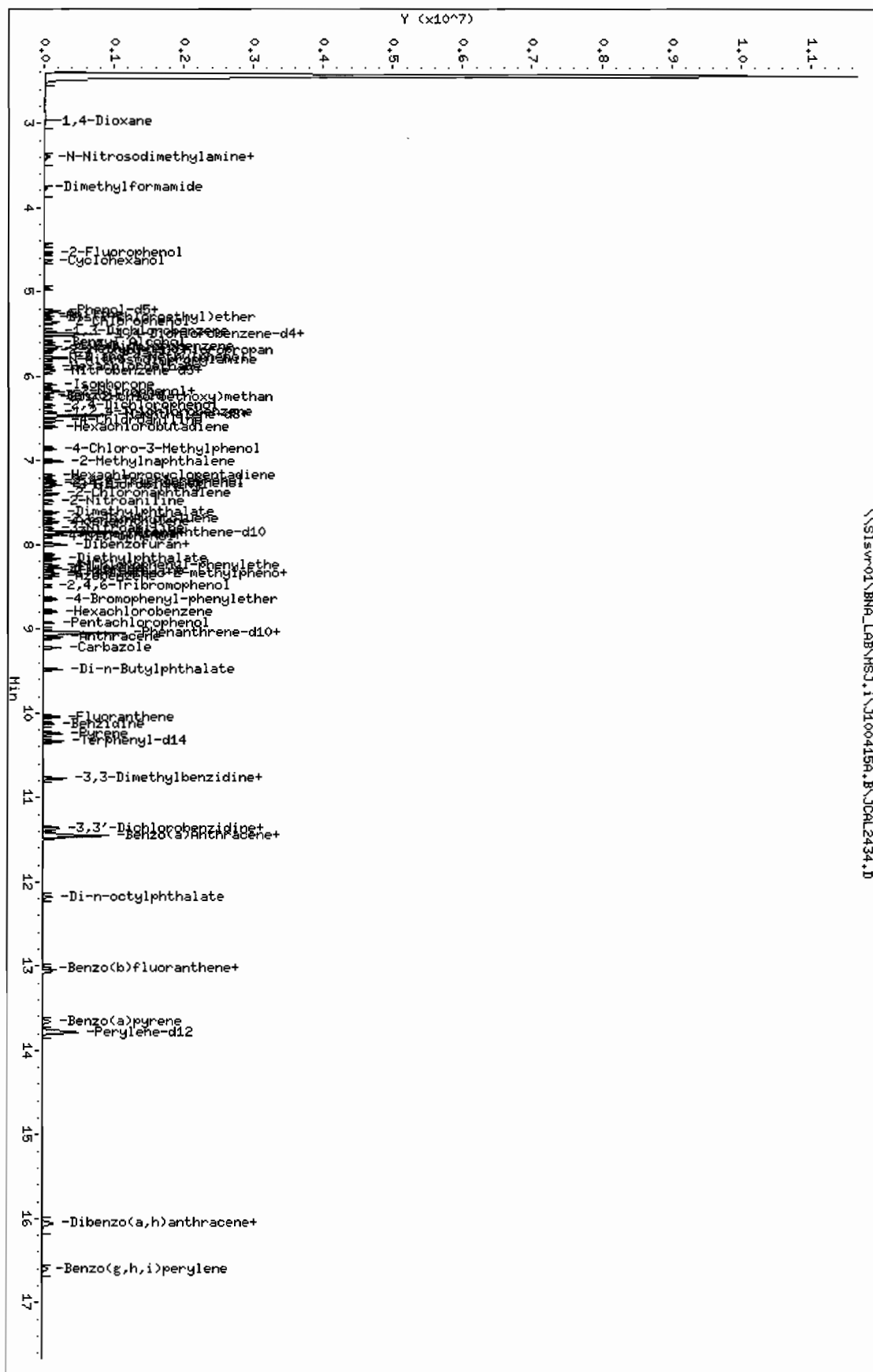
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.06
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.05
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.04
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.04
153 Chrysene-d12	11.45	10.95	11.95	11.45	0.03
166 Perylene-d12	13.78	13.28	14.28	13.79	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.

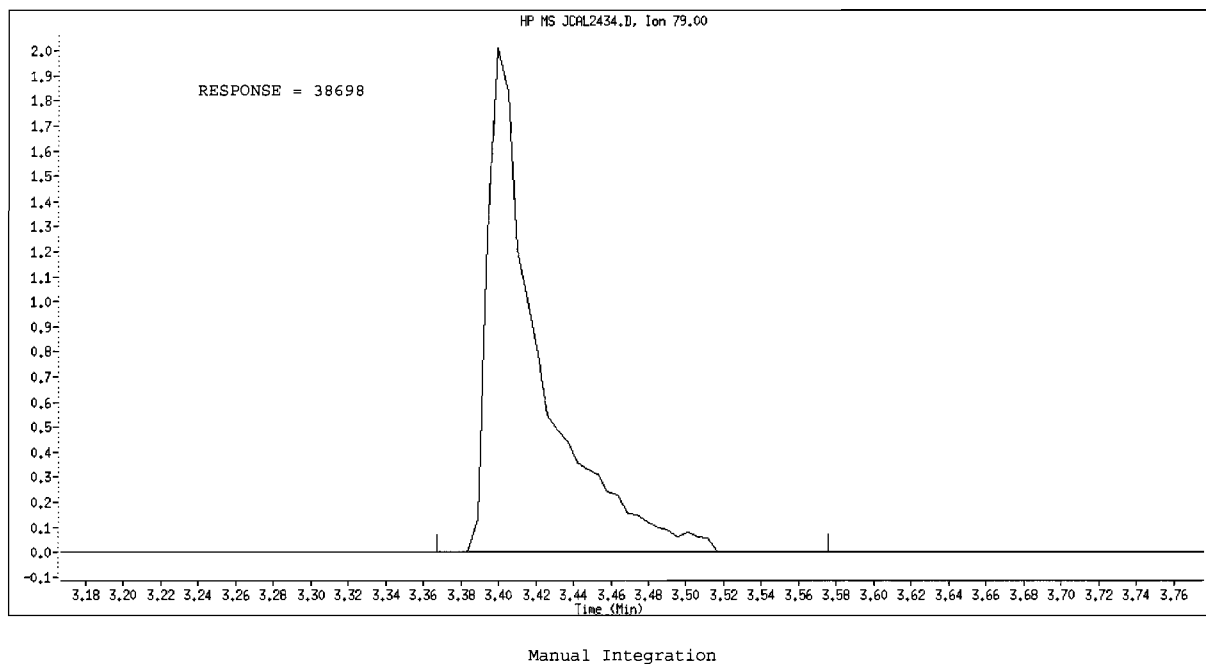
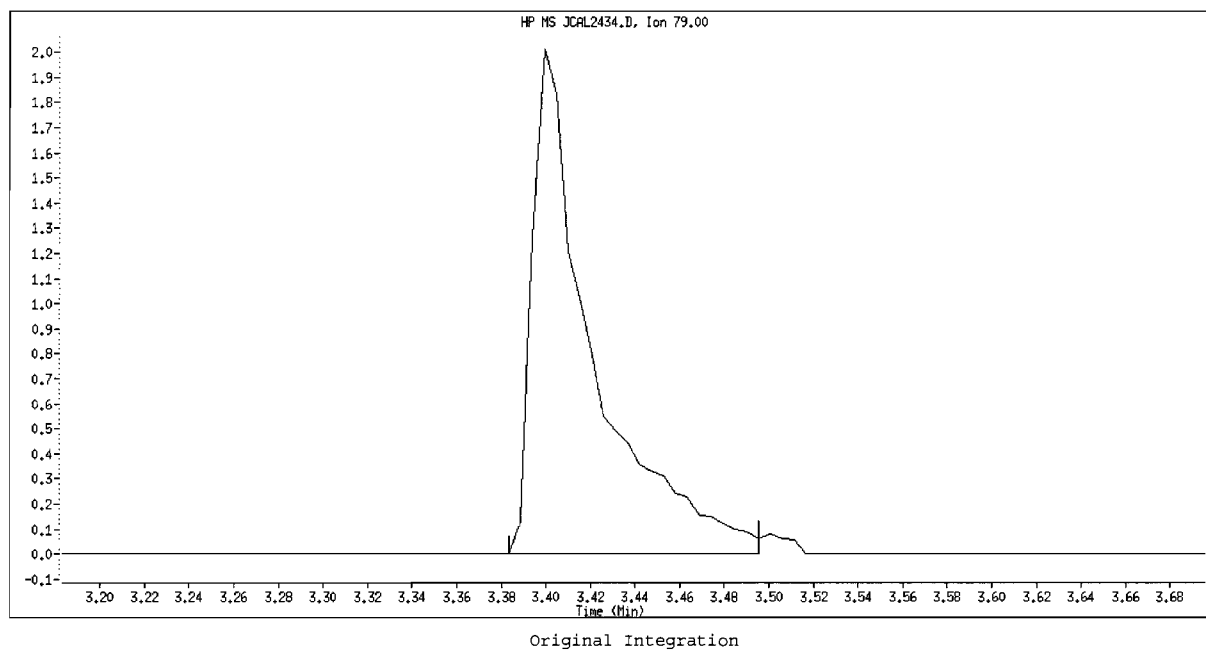


Data File: \\SISvr01\BNA\_LAB\MSJ.1\1004159.B\JCAL2434.D  
 Date: 15-APR-2010 13:20  
 Client ID: SSTD010  
 Sample Info: SSTD010  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: MSJ.i  
 Operator: JM/HMK  
 Column diameter: 2.00

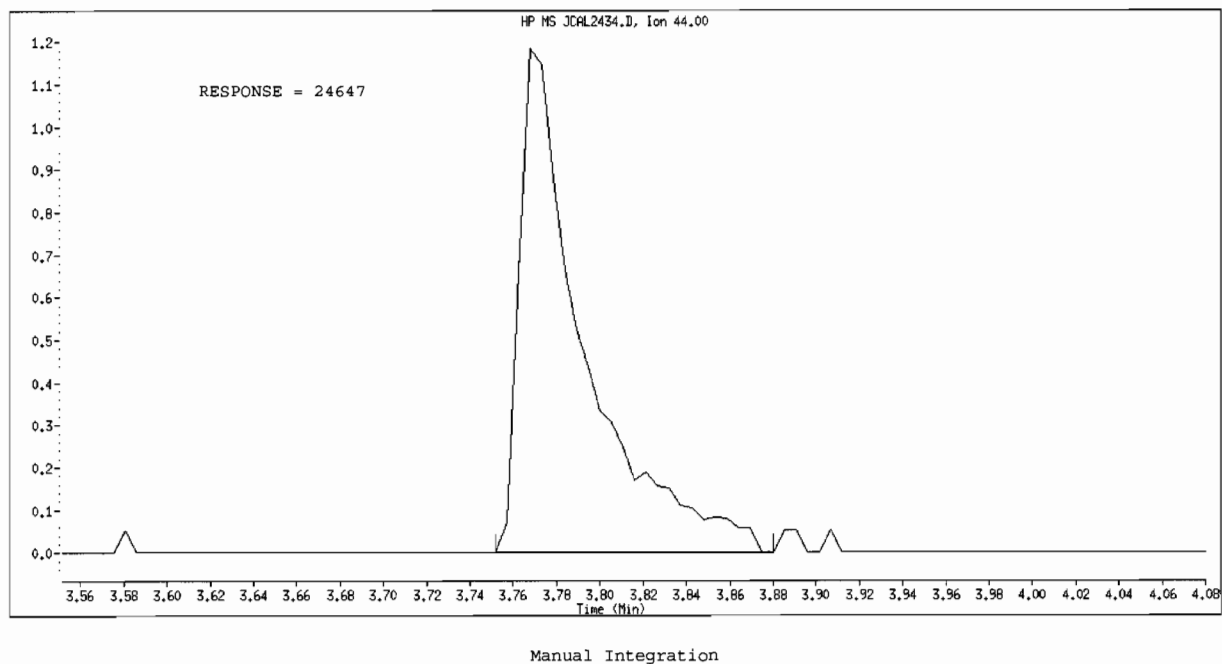
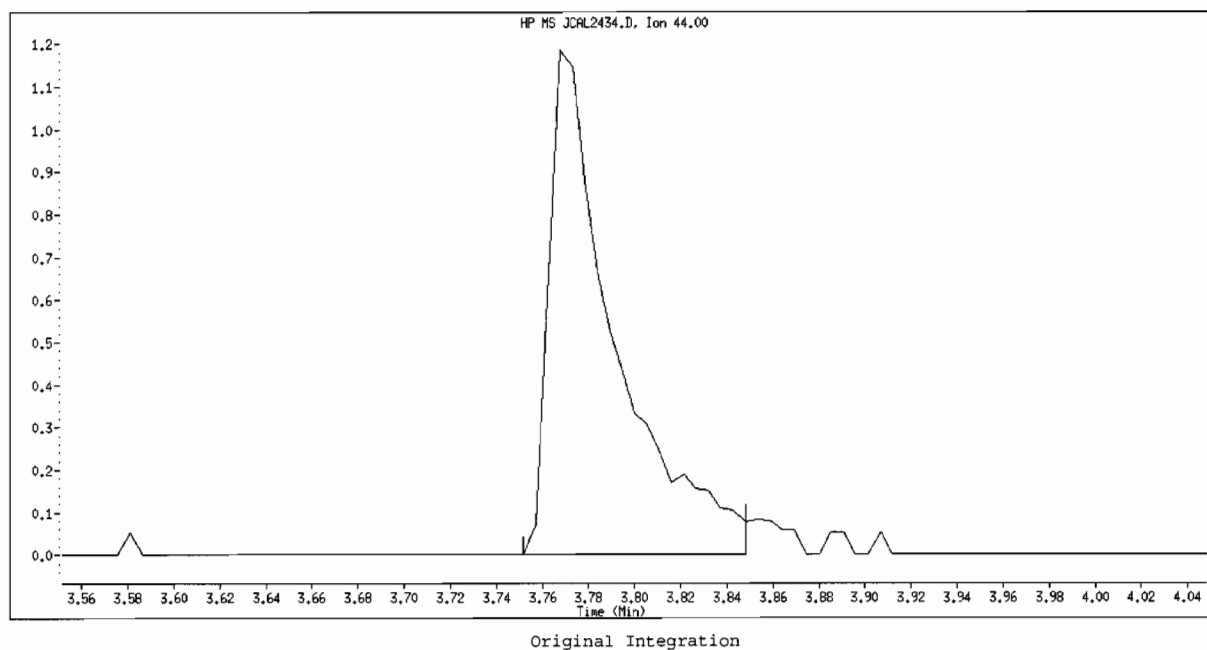


Data File Name: JCAL2434.D  
Inj. Date and Time: 15-APR-2010 13:20  
Instrument ID: MSJ.i  
Client ID: SST010  
Compound Name: Pyridine  
CAS #: 110-86-1



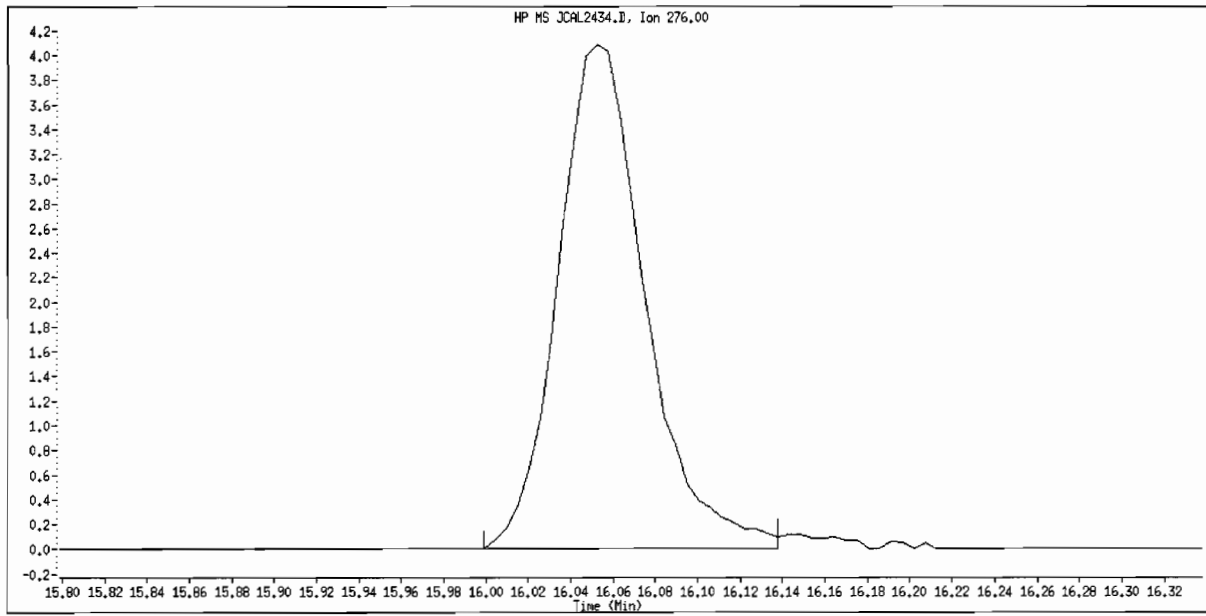
Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2434.D  
Inj. Date and Time: 15-APR-2010 13:20  
Instrument ID: MSJ.i  
Client ID: SST010  
Compound Name: Dimethylformamide  
CAS #: 68-12-2

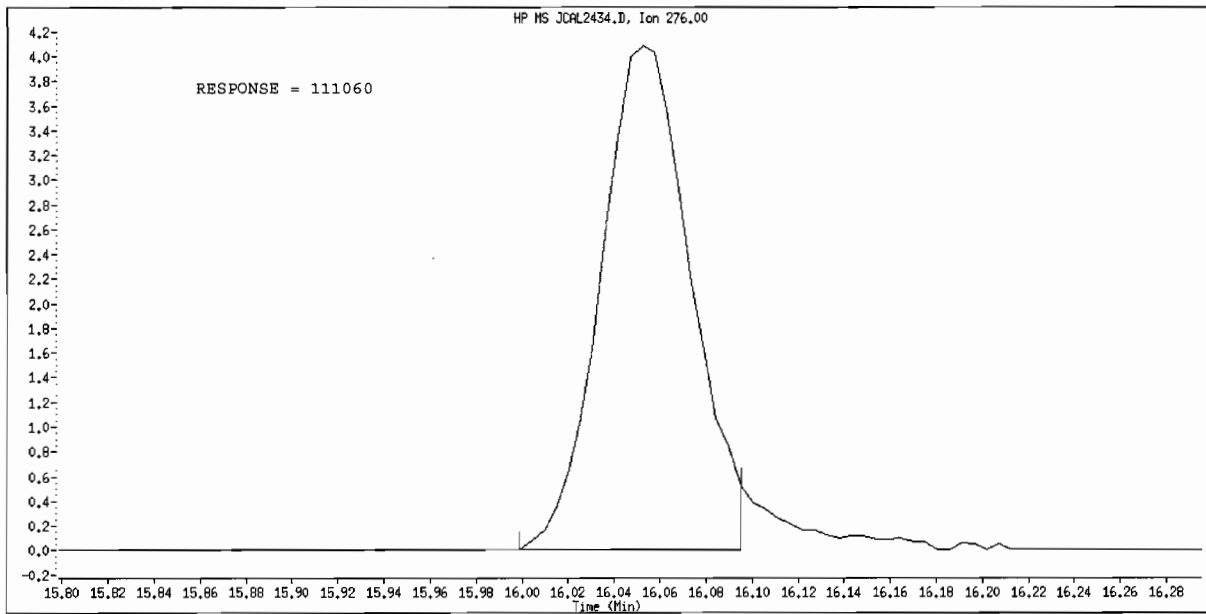


Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2434.D  
Inj. Date and Time: 15-APR-2010 13:20  
Instrument ID: MSJ.i  
Client ID: SST0010  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Original Integration



Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2436.D  
 Report Date: 15-Apr-2010 16:03

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TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSJ.i Injection Date: 15-APR-2010 14:11  
 Lab File ID: JCAL2436.D Init. Cal. Date(s): 15-APR-2010 15-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:13 13:20  
 Lab Sample ID: SST050ICV Quant Type: ISTD  
 Method: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 1,4-Dioxane	0.49227	0.48941	0.48941	0.010	0.58270	60.00000	Averaged
4 N-Nitrosodimethylamine	0.74174	0.72644	0.72644	0.010	2.06353	60.00000	Averaged
3 Pyridine	1.36988	1.28059	1.28059	0.010	6.51789	60.00000	Averaged
5 Dimethylformamide	0.79635	0.82123	0.82123	0.010	-3.12438	60.00000	Averaged
11 Cyclohexanol	0.95610	0.96492	0.96492	0.010	-0.92233	60.00000	Averaged
17 Aniline	1.12068	2.00372	2.00372	0.010	-78.79572	60.00000	Averaged
19 Bis(2-chloroethyl)ether	1.19624	1.21169	1.21169	0.010	-1.29117	60.00000	Averaged
16 Phenol	1.62953	1.51373	1.51373	0.010	7.10643	20.00000	Averaged
20 2-Chlorophenol	1.35133	1.25734	1.25734	0.010	6.95512	60.00000	Averaged
21 1,3-Dichlorobenzene	1.46190	1.45115	1.45115	0.010	0.73596	60.00000	Averaged
23 1,4-Dichlorobenzene	1.52807	1.54948	1.54948	0.010	-1.40131	20.00000	Averaged
26 1,2-Dichlorobenzene	1.41725	1.36970	1.36970	0.010	3.35557	60.00000	Averaged
25 Benzyl Alcohol	0.84052	0.81877	0.81877	0.010	2.58765	60.00000	Averaged
28 2,2-oxybis(1-Chloropropane)	1.18591	1.24729	1.24729	0.010	-5.17567	60.00000	Averaged
27 2-Methylphenol	1.15223	1.13843	1.13843	0.010	1.19738	60.00000	Averaged
35 Hexachloroethane	0.57830	0.59978	0.59978	0.010	-3.71456	60.00000	Averaged
32 N-Nitrosodipropylamine	0.91976	1.01049	1.01049	0.050	-9.86449	60.00000	Averaged
29 3 and 4-Methylphenol	1.41070	1.31984	1.31984	0.010	6.44094	60.00000	Averaged
37 Nitrobenzene	0.44111	0.42522	0.42522	0.010	3.60322	60.00000	Averaged
39 Isophorone	0.69728	0.72123	0.72123	0.010	-3.43431	60.00000	Averaged
40 2-Nitrophenol	0.21107	0.19583	0.19583	0.010	7.22016	20.00000	Averaged
41 2,4-Dimethylphenol	0.43762	0.41675	0.41675	0.010	4.76798	60.00000	Averaged
42 Bis(2-chloroethoxy)methane	0.38462	0.38775	0.38775	0.010	-0.81361	60.00000	Averaged
45 2,4-Dichlorophenol	0.31178	0.29160	0.29160	0.010	6.47403	20.00000	Averaged
47 1,2,4-Trichlorobenzene	0.34489	0.35420	0.35420	0.010	-2.69870	60.00000	Averaged
44 Benzoic Acid	0.22981	0.21811	0.21811	0.010	5.09204	60.00000	Averaged
50 Naphthalene	1.07544	1.06079	1.06079	0.010	1.36225	60.00000	Averaged
51 4-Chloroaniline	0.47034	0.42288	0.42288	0.010	10.09024	60.00000	Averaged
54 Hexachlorobutadiene	0.23844	0.23112	0.23112	0.010	3.06944	20.00000	Averaged
62 2-Methylnaphthalene	0.76836	0.69978	0.69978	0.010	8.92531	60.00000	Averaged
59 4-Chloro-3-Methylphenol	0.36835	0.34043	0.34043	0.010	7.57803	20.00000	Averaged
66 Hexachlorocyclopentadiene	0.46994	0.48615	0.48615	0.050	-3.44921	60.00000	Averaged
67 2,4,6-Trichlorophenol	0.43458	0.40252	0.40252	0.010	7.37743	20.00000	Averaged
68 2,4,5-Trichlorophenol	0.48214	0.43348	0.43348	0.010	10.09248	60.00000	Averaged
72 2-Chloronaphthalene	1.15740	1.14699	1.14699	0.010	0.90010	60.00000	Averaged
73 2-Nitroaniline	0.42689	0.40063	0.40063	0.010	6.15165	60.00000	Averaged
76 Dimethylphthalate	1.40738	1.35473	1.35473	0.010	3.74112	60.00000	Averaged
79 Acenaphthylene	1.81952	1.82791	1.82791	0.010	-0.46097	60.00000	Averaged
80 2,6-Dinitrotoluene	0.32352	0.31534	0.31534	0.010	2.52855	60.00000	Averaged
83 Acenaphthene	1.21253	1.18999	1.18999	0.010	1.85908	20.00000	Averaged
81 3-Nitroaniline	0.32666	0.31447	0.31447	0.010	3.73184	60.00000	Averaged
84 2,4-Dinitrophenol	50.00000	43.85923	0.21568	0.050	12.28155	0.000e+000	Linear
86 Dibenzofuran	1.84030	1.71995	1.71995	0.010	6.53945	60.00000	Averaged

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## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSJ.i Injection Date: 15-APR-2010 14:11  
 Lab File ID: JCAL2436.D Init. Cal. Date(s): 15-APR-2010 15-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:13 13:20  
 Lab Sample ID: SST050ICV Quant Type: ISTD  
 Method: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
88 2,4-Dinitrotoluene	0.43159	0.43792	0.43792	0.010	-1.46586	60.00000	Averaged
85 4-Nitrophenol	0.28562	0.26760	0.26760	0.050	6.30722	60.00000	Averaged
93 Diethylphthalate	1.37440	1.36418	1.36418	0.010	0.74373	60.00000	Averaged
94 Fluorene	1.42041	1.40014	1.40014	0.010	1.42696	60.00000	Averaged
95 4-Chlorophenyl-phenylether	0.73628	0.72012	0.72012	0.010	2.19421	60.00000	Averaged
98 4-Nitroaniline	0.32779	0.30224	0.30224	0.010	7.79372	60.00000	Averaged
99 4,6-Dinitro-2-methylphenol	0.16469	0.15515	0.15515	0.010	5.79174	60.00000	Averaged
100 N-Nitrosodiphenylamine	0.50091	0.62536	0.62536	0.010	-24.84489	20.00000	Averaged
102 Azobenzene	0.74521	0.76194	0.76194	0.010	-2.24477	60.00000	Averaged
109 4-Bromophenyl-phenylether	0.23064	0.22751	0.22751	0.010	1.35648	60.00000	Averaged
112 Hexachlorobenzene	0.23796	0.23361	0.23361	0.010	1.82672	60.00000	Averaged
117 Pentachlorophenol	0.17527	0.16239	0.16239	0.010	7.35031	20.00000	Averaged
122 Phenanthrene	1.05458	1.04288	1.04288	0.010	1.10959	60.00000	Averaged
124 Anthracene	1.08233	1.06332	1.06332	0.010	1.75719	60.00000	Averaged
126 Carbazole	0.96983	0.96364	0.96364	0.010	0.63769	60.00000	Averaged
129 Di-n-Butylphthalate	1.19580	1.20273	1.20273	0.010	-0.57959	60.00000	Averaged
134 Fluoranthene	1.12727	1.15014	1.15014	0.010	-2.02906	20.00000	Averaged
135 Benzidine	0.48905	0.67917	0.67917	0.010	-38.87417	100	Averaged
137 Pyrene	1.10624	1.11067	1.11067	0.010	-0.40074	60.00000	Averaged
145 3,3-Dimethylbenzidine	0.57104	0.84703	0.84703	0.010	-48.33112	60.00000	Averaged
146 Butylbenzylphthalate	0.49972	0.53242	0.53242	0.010	-6.54293	60.00000	Averaged
150 Benzo(a)Anthracene	1.00883	1.06444	1.06444	0.010	-5.51154	60.00000	Averaged
152 3,3'-Dichlorobenzidine	0.43882	0.42602	0.42602	0.010	2.91794	60.00000	Averaged
154 Chrysene	1.02082	1.01617	1.01617	0.010	0.45528	60.00000	Averaged
155 bis(2-ethylhexyl)Phthalate	0.68656	0.67426	0.67426	0.010	1.79177	60.00000	Averaged
158 Di-n-octylphthalate	1.20683	1.20116	1.20116	0.010	0.46988	20.00000	Averaged
160 Benzo(b)fluoranthene	1.08863	1.18371	1.18371	0.010	-8.73388	60.00000	Averaged
161 Benzo(k)fluoranthene	1.19606	1.18857	1.18857	0.010	0.62665	60.00000	Averaged
165 Benzo(a)pyrene	1.07594	1.08338	1.08338	0.010	-0.69121	20.00000	Averaged
173 Indeno(1,2,3-cd)pyrene	1.18592	1.16506	1.16506	0.010	1.75931	60.00000	Averaged
174 Dibenzo(a,h)anthracene	1.05671	1.04743	1.04743	0.010	0.87765	60.00000	Averaged
177 Benzo(g,h,i)perylene	0.99435	1.02013	1.02013	0.010	-2.59284	60.00000	Averaged

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## GC/MS SEMIVOLATILES

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JCAL2436.D  
 Lab Smp Id: SST050ICV Client Smp ID: SST050ICV  
 Inj Date : 15-APR-2010 14:11  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : SST050ICV  
 Misc Info : SV0120-10  
 Comment :  
 Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 15-Apr-2010 16:02 kuessnrm Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 10 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8270ICV.sub  
 Target Version: 4.10  
 Processing Host: SLSVOA01

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/mL)	(ug/mL)	
=====	====		====	=====	=====	=====	=====	=====	
1 1,4-Dioxane	88		2.988	2.988	(0.543)	83336	50.0000	49.71	
4 N-Nitrosodimethylamine	74		3.389	3.389	(0.616)	123698	50.0000	48.97 (a)	
3 Pyridine	79		3.389	3.389	(0.616)	218059	50.0000	46.74 (M)	
5 Dimethylformamide	44		3.757	3.757	(0.683)	139839	50.0000	51.56 (aM)	
11 Cyclohexanol	57		4.638	4.638	(0.843)	164307	50.0000	50.46 (a)	
17 Aniline	93		5.285	5.285	(0.960)	341194	50.0000	89.40	
19 Bis(2-chloroethyl)ether	93		5.311	5.311	(0.965)	206326	50.0000	50.64	
16 Phenol	94		5.242	5.242	(0.952)	257758	50.0000	46.45 (a)	
20 2-Chlorophenol	128		5.370	5.370	(0.976)	214100	50.0000	46.52 (a)	
21 1,3-Dichlorobenzene	146		5.477	5.477	(0.995)	247101	50.0000	49.63 (a)	
* 22 1,4-Dichlorobenzene-d4	152		5.504	5.504	(1.000)	136224	40.0000	(a)	
23 1,4-Dichlorobenzene	146		5.514	5.514	(1.002)	263846	50.0000	50.70 (a)	
26 1,2-Dichlorobenzene	146		5.659	5.659	(1.028)	233232	50.0000	48.32	
25 Benzyl Alcohol	108		5.605	5.605	(1.018)	139420	50.0000	48.71 (a)	
28 2,2-oxybis(1-Chloropropane)	45		5.707	5.707	(1.037)	212389	50.0000	52.59	
27 2-Methylphenol	108		5.685	5.685	(1.033)	193852	50.0000	49.40 (a)	
35 Hexachloroethane	117		5.888	5.888	(1.070)	102131	50.0000	51.86 (a)	
32 N-Nitrosodipropylamine	70		5.824	5.824	(1.058)	172066	50.0000	54.93	
29 3 and 4-Methylphenol	107		5.792	5.792	(1.052)	449485	100.000	93.56	
37 Nitrobenzene	77		5.952	5.952	(0.920)	264641	50.0000	48.20 (a)	





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Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====	----	----	----	-----	-----	-----	-----
39 Isophorone	82	6.113	6.113	(0.945)	448866	50.0000	51.72 (a)
40 2-Nitrophenol	139	6.187	6.187	(0.956)	121877	50.0000	46.39 (a)
41 2,4-Dimethylphenol	107	6.187	6.187	(0.956)	259372	50.0000	47.62 (a)
42 Bis(2-chloroethoxy) methane	93	6.257	6.257	(0.967)	241319	50.0000	50.41 (a)
45 2,4-Dichlorophenol	162	6.358	6.358	(0.983)	181481	50.0000	46.76 (a)
47 1,2,4-Trichlorobenzene	180	6.433	6.433	(0.994)	220442	50.0000	51.35 (a)
* 48 Naphthalene-d8	136	6.470	6.470	(1.000)	497892	40.0000	(a)
44 Benzoic Acid	122	6.273	6.273	(0.969)	135742	50.0000	47.45
50 Naphthalene	128	6.486	6.486	(1.002)	660198	50.0000	49.32 (a)
51 4-Chloroaniline	127	6.524	6.524	(1.008)	263184	50.0000	44.95 (a)
54 Hexachlorobutadiene	225	6.604	6.604	(1.021)	143843	50.0000	48.46 (a)
62 2-Methylnaphthalene	142	7.010	7.010	(1.083)	435519	50.0000	45.54
59 4-Chloro-3-Methylphenol	107	6.866	6.866	(1.061)	211874	50.0000	46.21 (a)
66 Hexachlorocyclopentadiene	237	7.181	7.181	(0.914)	172656	50.0000	51.72 (a)
67 2,4,6-Trichlorophenol	196	7.240	7.240	(0.921)	142955	50.0000	46.31 (a)
68 2,4,5-Trichlorophenol	196	7.272	7.272	(0.925)	153949	50.0000	44.95 (a)
72 2-Chloronaphthalene	162	7.400	7.400	(0.942)	407349	50.0000	49.55 (a)
73 2-Nitroaniline	65	7.491	7.491	(0.953)	142281	50.0000	46.92 (a)
76 Dimethylphthalate	163	7.635	7.635	(0.971)	481129	50.0000	48.13 (a)
79 Acenaphthylene	152	7.742	7.742	(0.985)	649177	50.0000	50.23 (a)
80 2,6-Dinitrotoluene	165	7.704	7.704	(0.980)	111992	50.0000	48.74 (a)
* 82 Acenaphthene-d10	164	7.859	7.859	(1.000)	284118	40.0000	(a)
83 Acenaphthene	153	7.886	7.886	(1.003)	422622	50.0000	49.07 (a)
81 3-Nitroaniline	138	7.822	7.822	(0.995)	111683	50.0000	48.13
84 2,4-Dinitrophenol	184	7.896	7.896	(1.005)	76597	50.0000	43.86 (a)
86 Dibenzofuran	168	8.009	8.009	(1.019)	610836	50.0000	46.73 (a)
88 2,4-Dinitrotoluene	165	8.019	8.019	(1.020)	155526	50.0000	50.73 (a)
85 4-Nitrophenol	109	7.918	7.918	(1.007)	95039	50.0000	46.85
93 Diethylphthalate	149	8.185	8.185	(1.041)	484484	50.0000	49.63 (a)
94 Fluorene	166	8.286	8.286	(1.054)	497256	50.0000	49.29 (a)
95 4-Chlorophenyl-phenylether	204	8.260	8.260	(1.051)	255750	50.0000	48.90 (a)
98 4-Nitroaniline	138	8.324	8.324	(1.059)	107341	50.0000	46.10 (a)
99 4,6-Dinitro-2-methylphenol	198	8.350	8.350	(0.923)	107902	50.0000	47.10 (a)
100 N-Nitrosodiphenylamine	169	8.361	8.361	(0.924)	434923	50.0000	62.42 (a)
102 Azobenzene	77	8.388	8.388	(0.927)	529915	50.0000	51.12 (a)
109 4-Bromophenyl-phenylether	248	8.655	8.655	(0.956)	158227	50.0000	49.32 (a)
112 Hexachlorobenzene	284	8.799	8.799	(0.972)	162473	50.0000	49.09 (a)
117 Pentachlorophenol	266	8.938	8.938	(0.988)	112940	50.0000	46.32 (a)
* 121 Phenanthrene-d10	188	9.050	9.050	(1.000)	556385	40.0000	(a)
122 Phenanthrene	178	9.072	9.072	(1.002)	725303	50.0000	49.44 (a)
124 Anthracene	178	9.109	9.109	(1.006)	739516	50.0000	49.12 (a)
126 Carbazole	167	9.232	9.232	(1.020)	670197	50.0000	49.68 (a)
129 Di-n-Butylphthalate	149	9.488	9.488	(1.048)	836476	50.0000	50.29 (a)
134 Fluoranthene	202	10.054	10.054	(1.111)	799900	50.0000	51.01 (a)
135 Benzidine	184	10.140	10.140	(0.884)	520713	50.0000	69.44 (a)
137 Pyrene	202	10.252	10.252	(0.894)	851546	50.0000	50.20 (a)
145 3,3-Dimethylbenzidine	212	10.791	10.791	(0.941)	649416	50.0000	74.16
146 Butylbenzylphthalate	149	10.775	10.775	(0.940)	408200	50.0000	53.27 (a)
150 Benzo(a)Anthracene	228	11.438	11.438	(0.998)	816097	50.0000	52.76 (a)
* 153 Chrysene-d12	240	11.464	11.464	(1.000)	613356	40.0000	(a)
152 3,3'-Dichlorobenzidine	252	11.390	11.390	(0.993)	326624	50.0000	48.54 (a)
154 Chrysene	228	11.496	11.496	(1.003)	779096	50.0000	49.77 (a)
155 bis(2-ethylhexyl) Phthalate	149	11.368	11.368	(0.992)	516954	50.0000	49.10 (a)
158 Di-n-octylphthalate	149	12.185	12.185	(0.883)	841310	50.0000	49.76 (a)

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Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	----	-----	-----	-----		-----	-----
160 Benzo(b)fluoranthene	252	13.051	13.051	(0.945)	829089		50.0000	54.37(a)
161 Benzo(k)fluoranthene	252	13.093	13.093	(0.949)	832489		50.0000	49.69(a)
165 Benzo(a)pyrene	252	13.686	13.686	(0.991)	758815		50.0000	50.34(a)
* 166 Perylene-d12	264	13.804	13.804	(1.000)	560331		40.0000	(a)
173 Indeno(1,2,3-cd)pyrene	276	16.095	16.095	(1.166)	816022		50.0000	49.12(aM)
174 Dibenzo(a,h)anthracene	278	16.106	16.106	(1.167)	733636		50.0000	49.56(a)
177 Benzo(g,h,i)perylene	276	16.645	16.645	(1.206)	714512		50.0000	51.30(a)

## QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).  
 M - Compound response manually integrated.

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JCAL2436.D Calibration Time: 11:13  
 Lab Smp Id: SST050ICV Client Smp ID: SST050ICV  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: SV0120-10

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	136224	33.26
48 Naphthalene-d8	360526	180263	721052	497892	38.10
82 Acenaphthene-d10	206190	103095	412380	284118	37.79
121 Phenanthrene-d10	415780	207890	831560	556385	33.82
153 Chrysene-d12	446285	223143	892570	613356	37.44
166 Perylene-d12	410994	205497	821988	560331	36.34

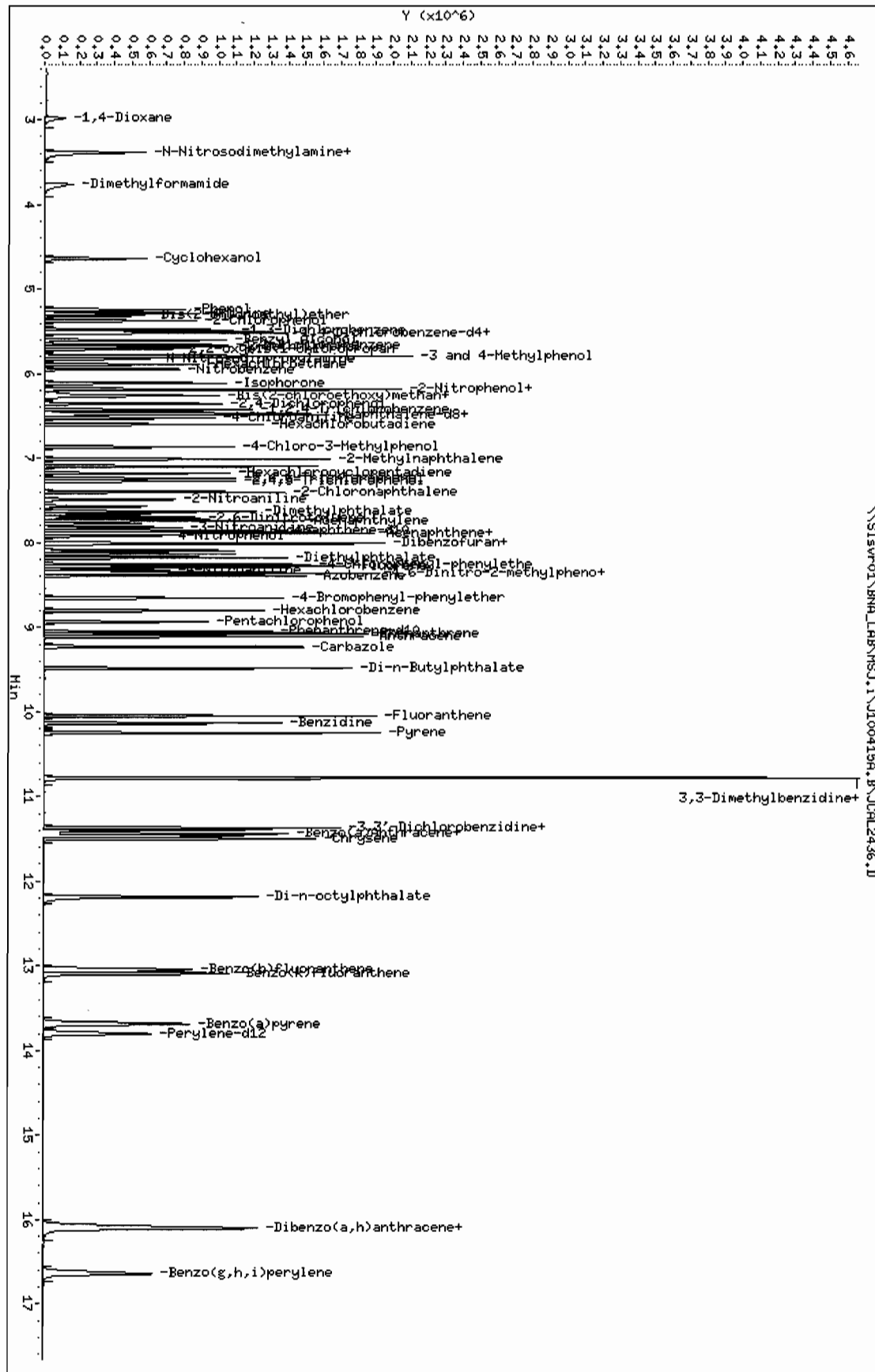
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.17
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.14
82 Acenaphthene-d10	7.85	7.35	8.35	7.86	0.12
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.10
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.13
166 Perylene-d12	13.78	13.28	14.28	13.80	0.18

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.

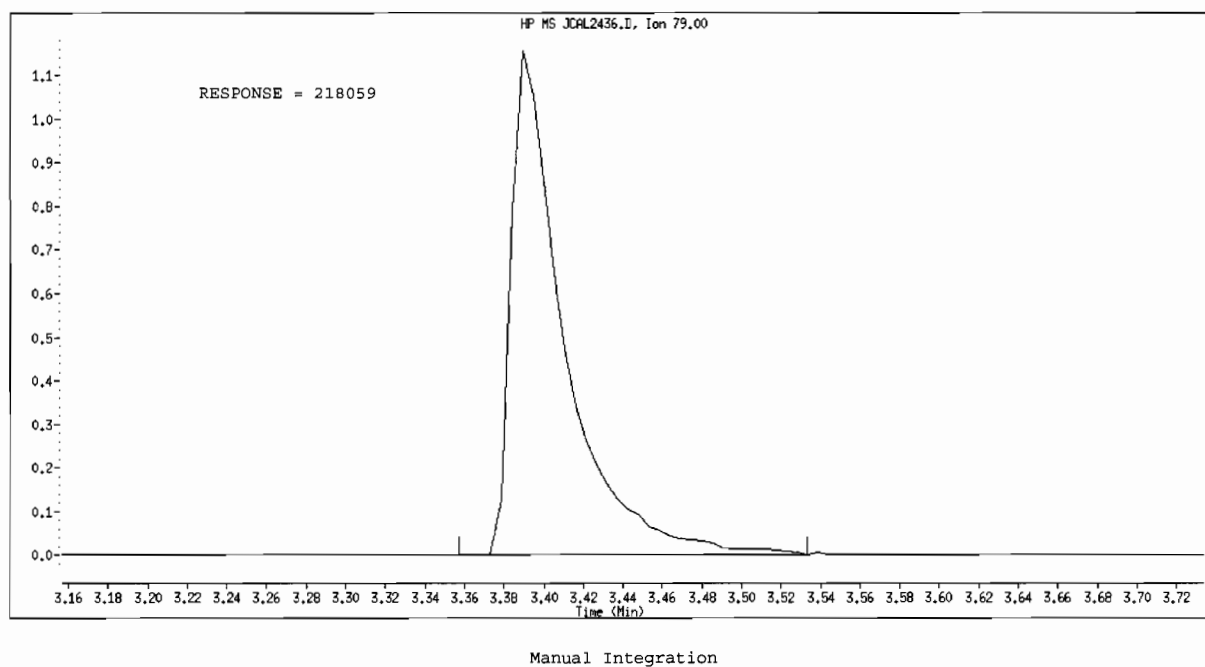
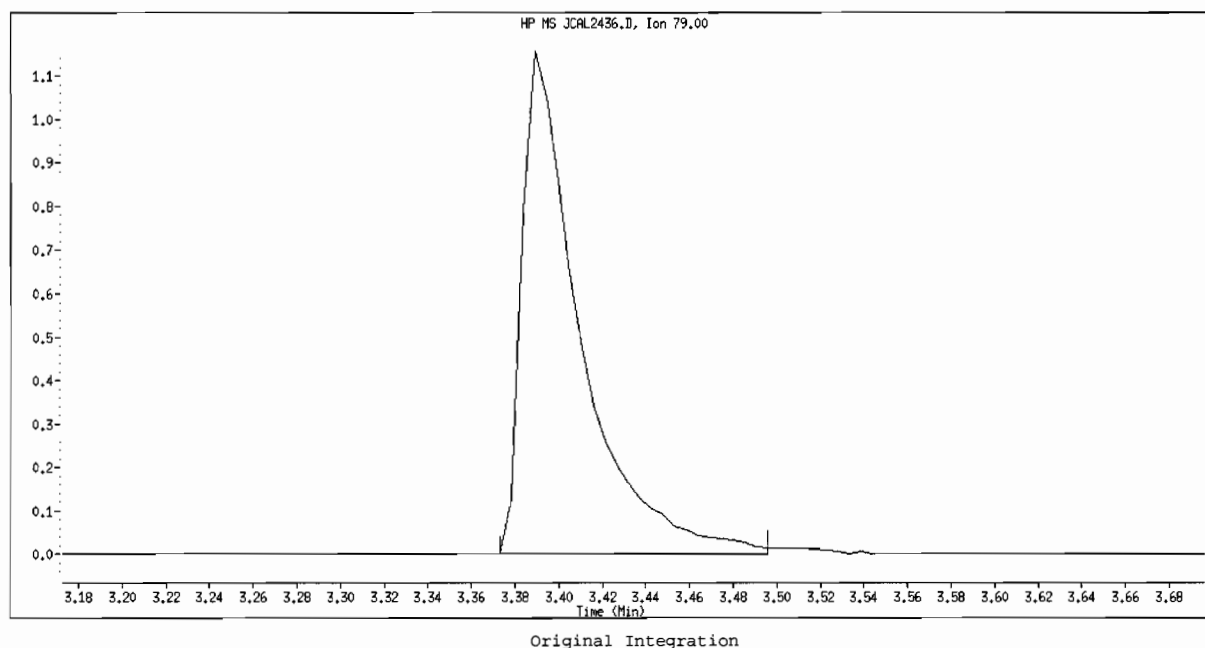
Data File: \\SISwr01\BNA\_LAB\HSJ.1\J100415A.B\JCAL2436.D  
 Date: 15-APR-2010 14:11  
 Client ID: SST00501CV  
 Sample Info: SST00501CV  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: HSJ.i  
 Operator: JM/HAK  
 Column diameter: 2.00

Page 1

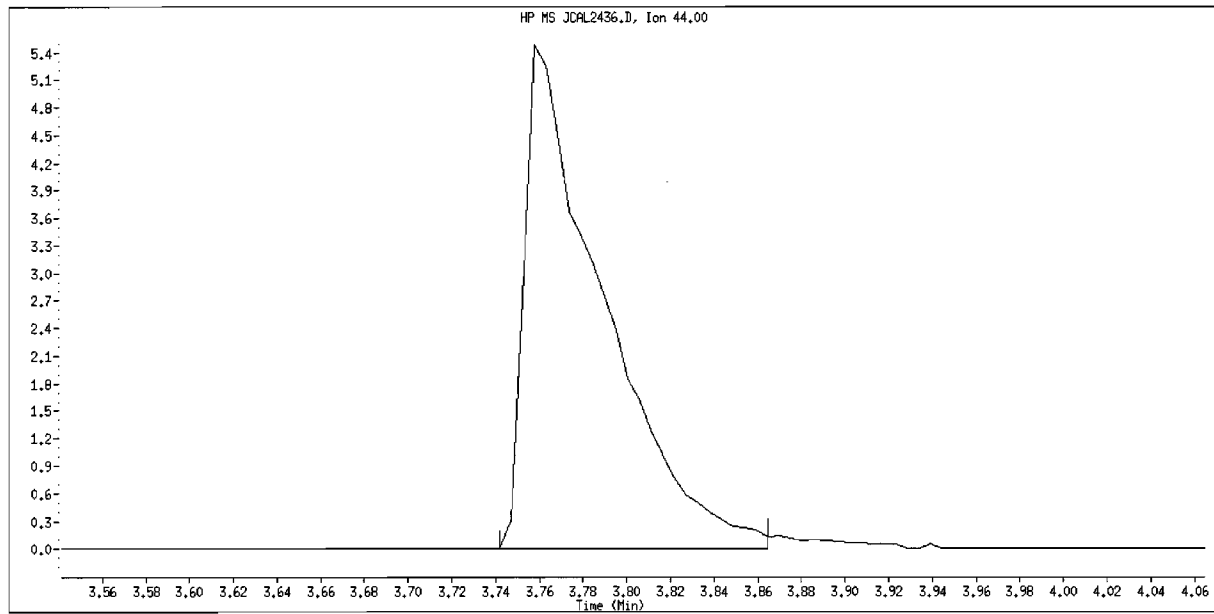


Data File Name: JCAL2436.D  
Inj. Date and Time: 15-APR-2010 14:11  
Instrument ID: MSJ.i  
Client ID: SST0050ICV  
Compound Name: Pyridine  
CAS #: 110-86-1

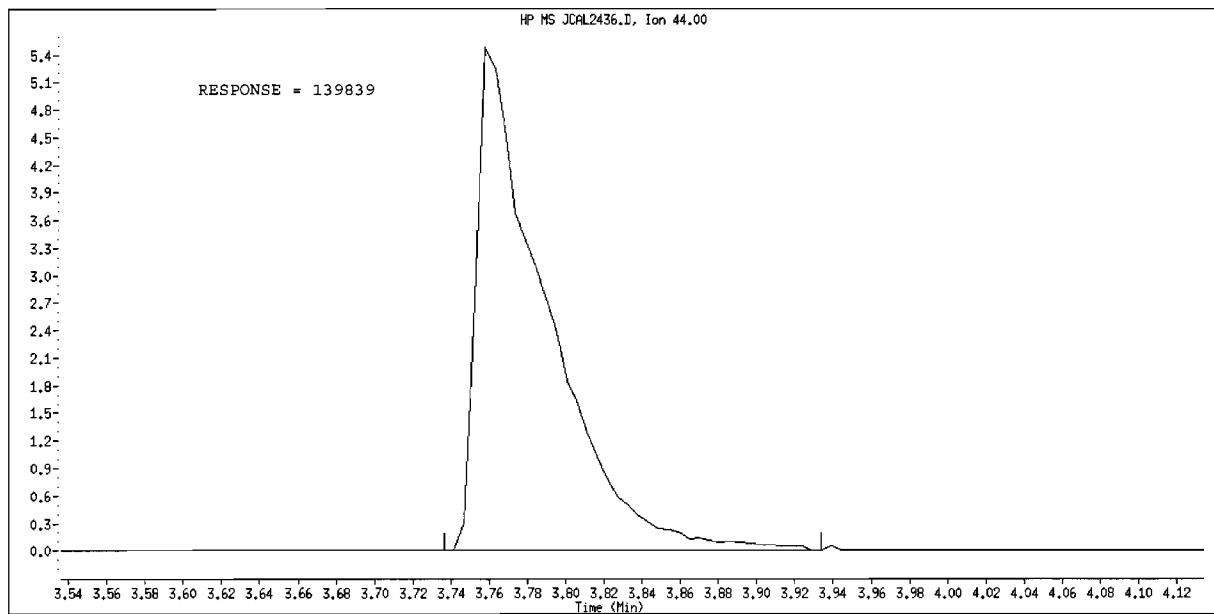


Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2436.D  
Inj. Date and Time: 15-APR-2010 14:11  
Instrument ID: MSJ.i  
Client ID: SST050ICV  
Compound Name: Dimethylformamide  
CAS #: 68-12-2



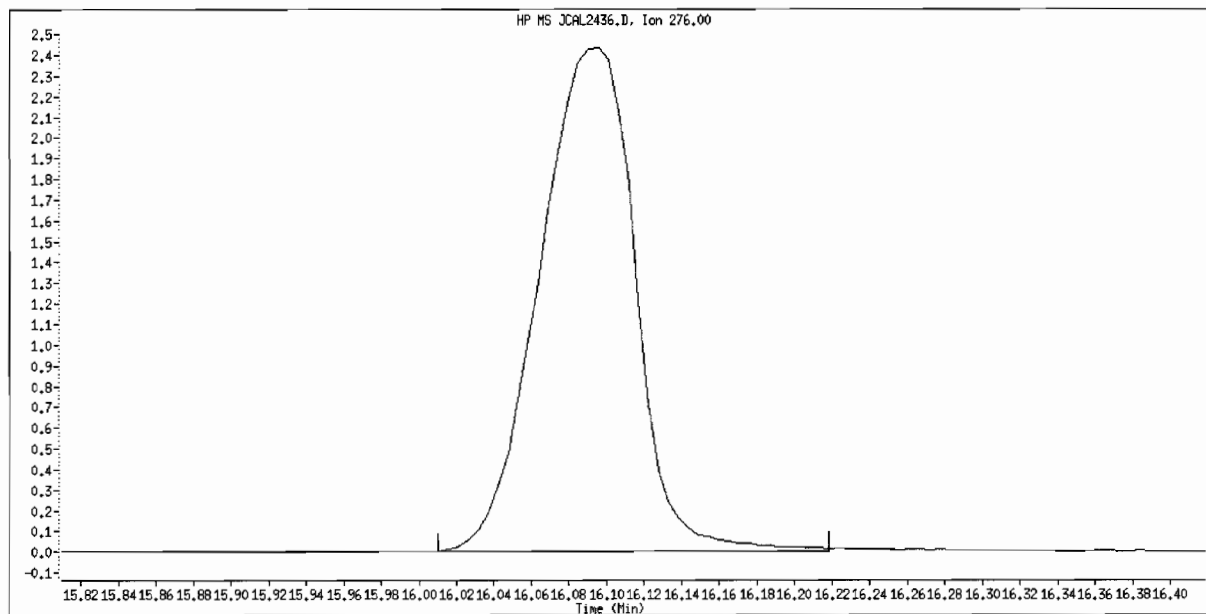
Original Integration



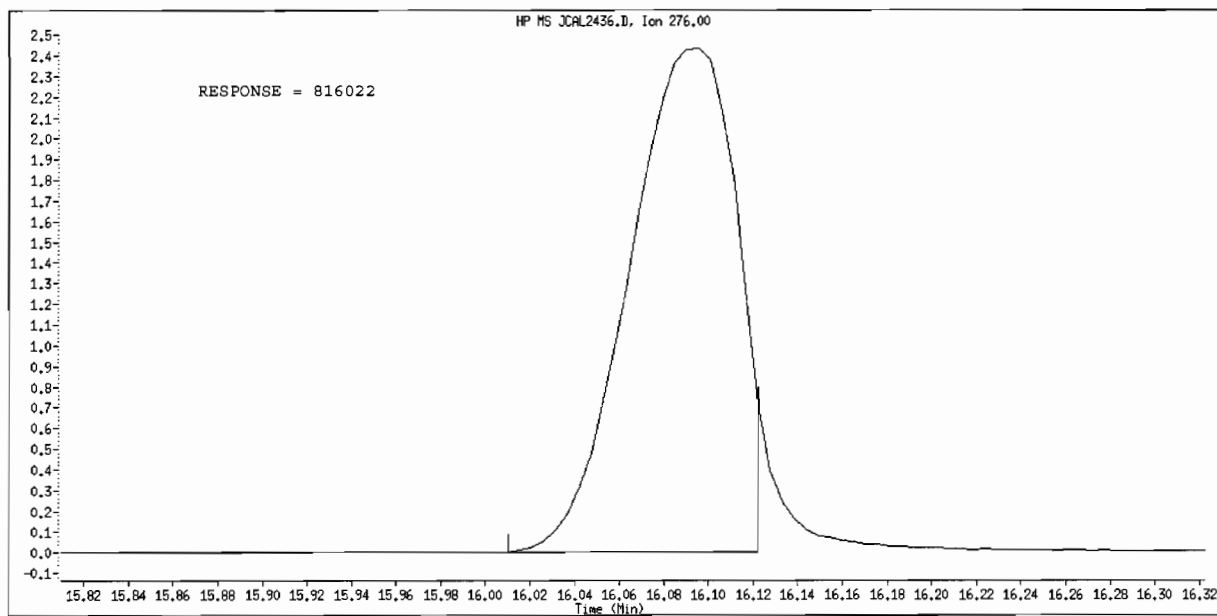
Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File Name: JCAL2436.D  
Inj. Date and Time: 15-APR-2010 14:11  
Instrument ID: MSJ.i  
Client ID: SST050ICV  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Original Integration



Manual Integration

Manually Integrated By: kuessnerm  
Manual Integration Reason: Incomplete Integration

Data File: JDFT2428.D  
Report Date: 15-Apr-2010 11:11

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D  
Lab Smp Id: SW846-T1 Client Smp ID: SW846-T1  
Inj Date : 15-APR-2010 10:55  
Operator : Tim Matthews Inst ID: MSJ.i  
Smp Info : DFTPP  
Misc Info : SV0128-10  
Comment :  
Method : \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m  
Meth Date : 15-Apr-2010 11:10 kuessnerm Quant Type: ESTD  
Cal Date : Cal File:  
Als bottle: 3 QC Sample: SW846\_TUNE  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: all.sub  
Target Version: 4.10  
Processing Host: SLSVOA01

Concentration Formula: Amt \* DF \* Uf \* Vf \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
1 Pentachlorophenol	266	5.688	5.680	0.008	51016		(aQ)
2 DFTPP	198	6.457	6.460	-0.003	49157		(aQ)
3 Benzidine	184	8.001	8.000	0.001	233452		(aQ)
	184	8.059	8.000	0.059	2480		(aQ)
4 4,4'-DDD	235	Compound Not Detected.					
5 4,4'-DDT	235	9.373	9.370	0.003	132015		(aQ)
	235	8.951	9.370	-0.419	861		(aQ)
6 4,4'-DDE	246	Compound Not Detected.					

## QC Flag Legend

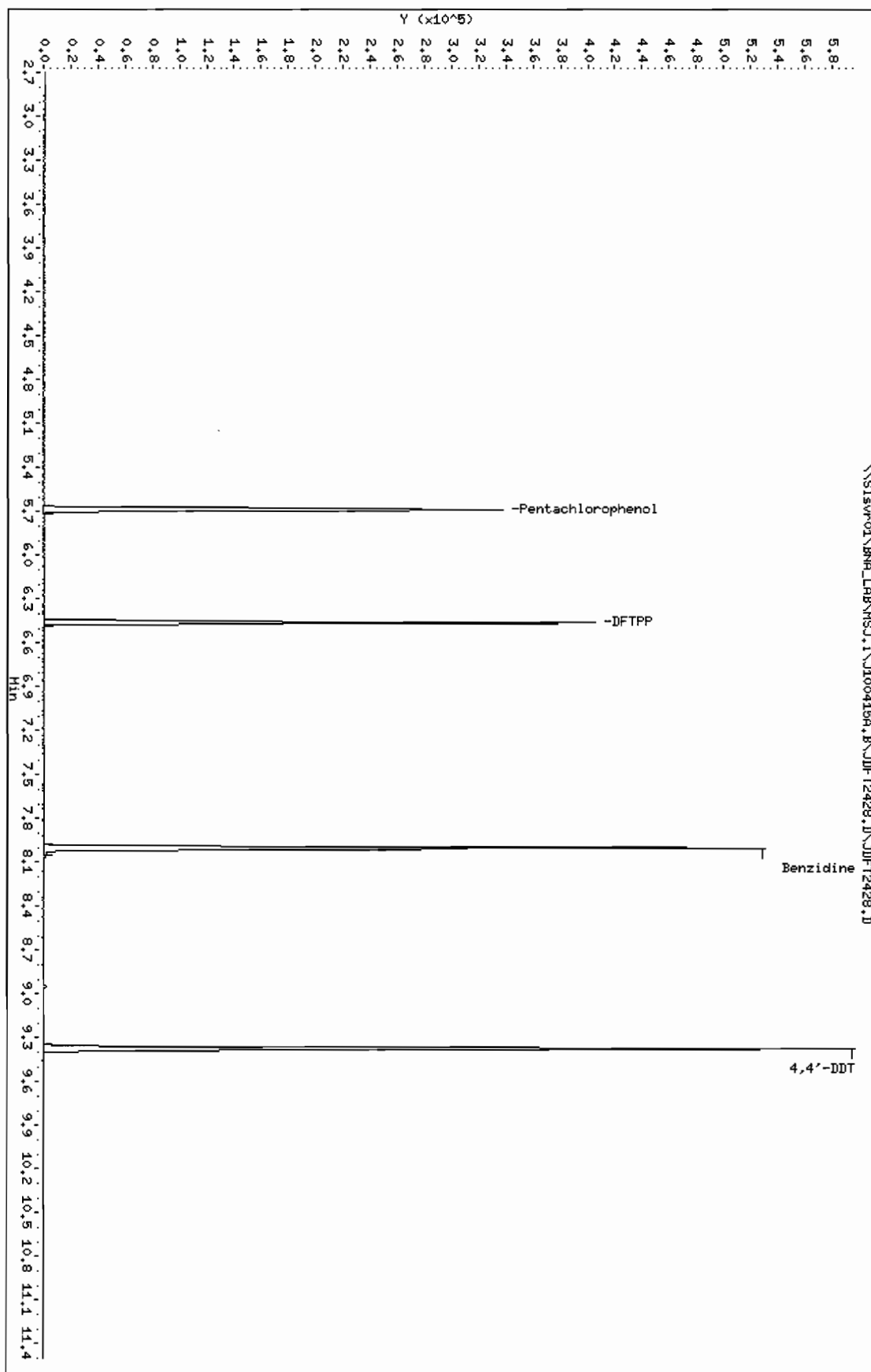
a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).  
Q - Qualifier signal failed the ratio test.



Data File: \\slsw01\BNA\_LAB\MSJ.1\100415A.B\JDF12428.D  
Date: 15-APR-2010 10:55  
Client ID: SM846-T1  
Sample Info: DFTPP  
Column phase:

Instrument: MSJ.1  
Operator: Tim Matthews  
Column diameter: 2.00

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Data File: \\slsvr01\BNA\_LAB\HSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

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Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: HSJ,i

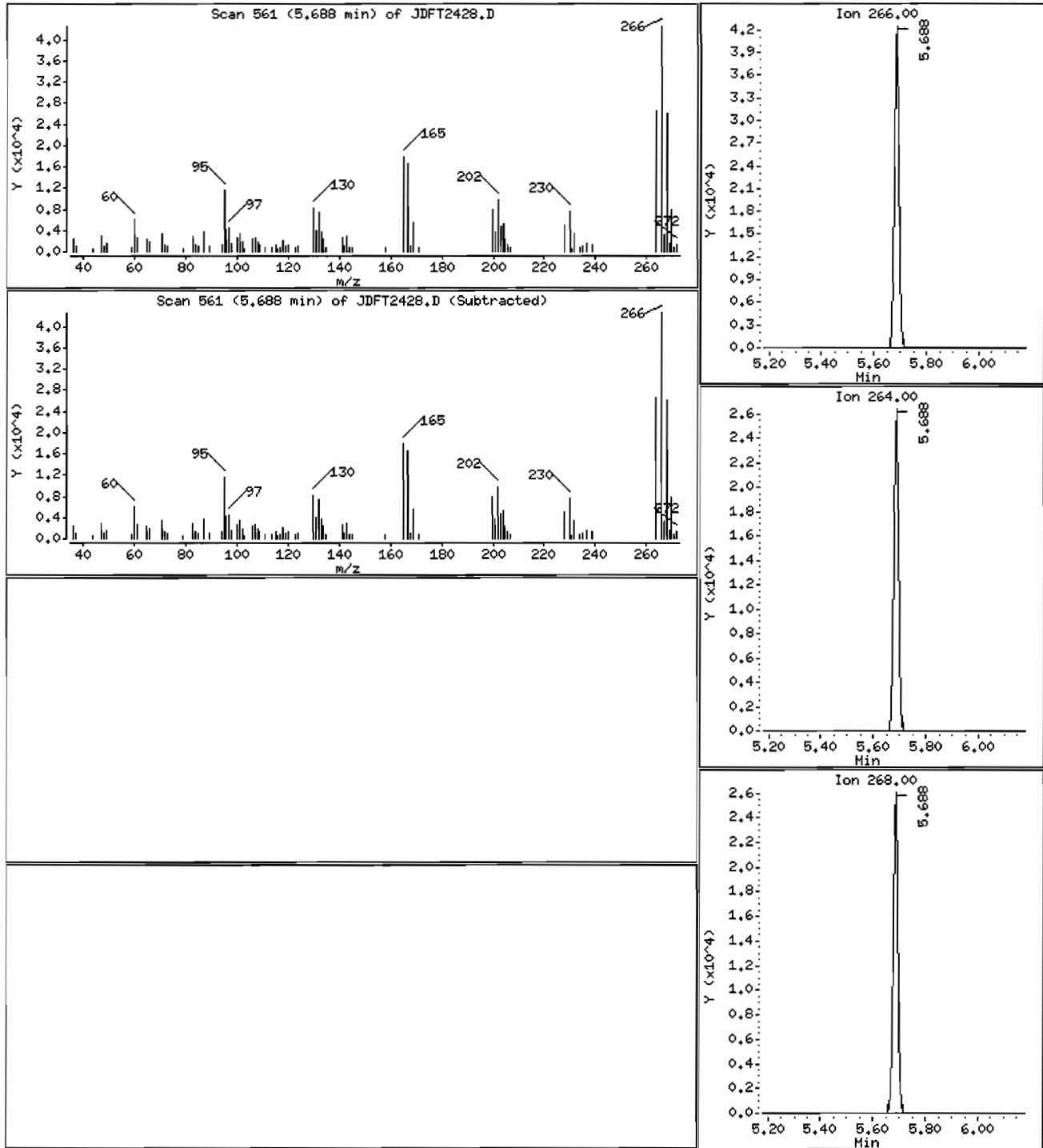
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

1 Pentachlorophenol



Data File: \\slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

Page 3

Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

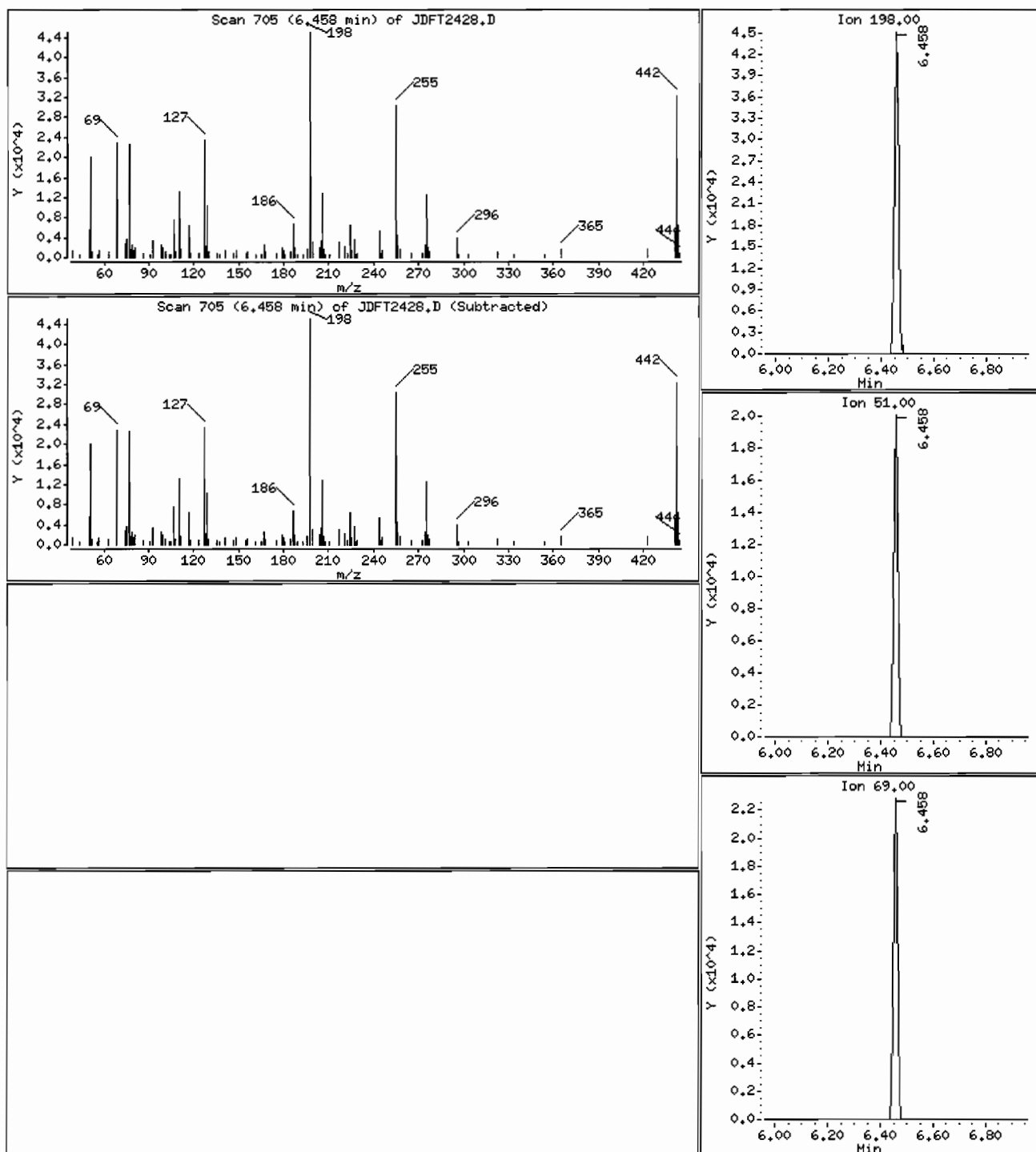
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

2 DFTPP



Data File: \\Slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

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Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

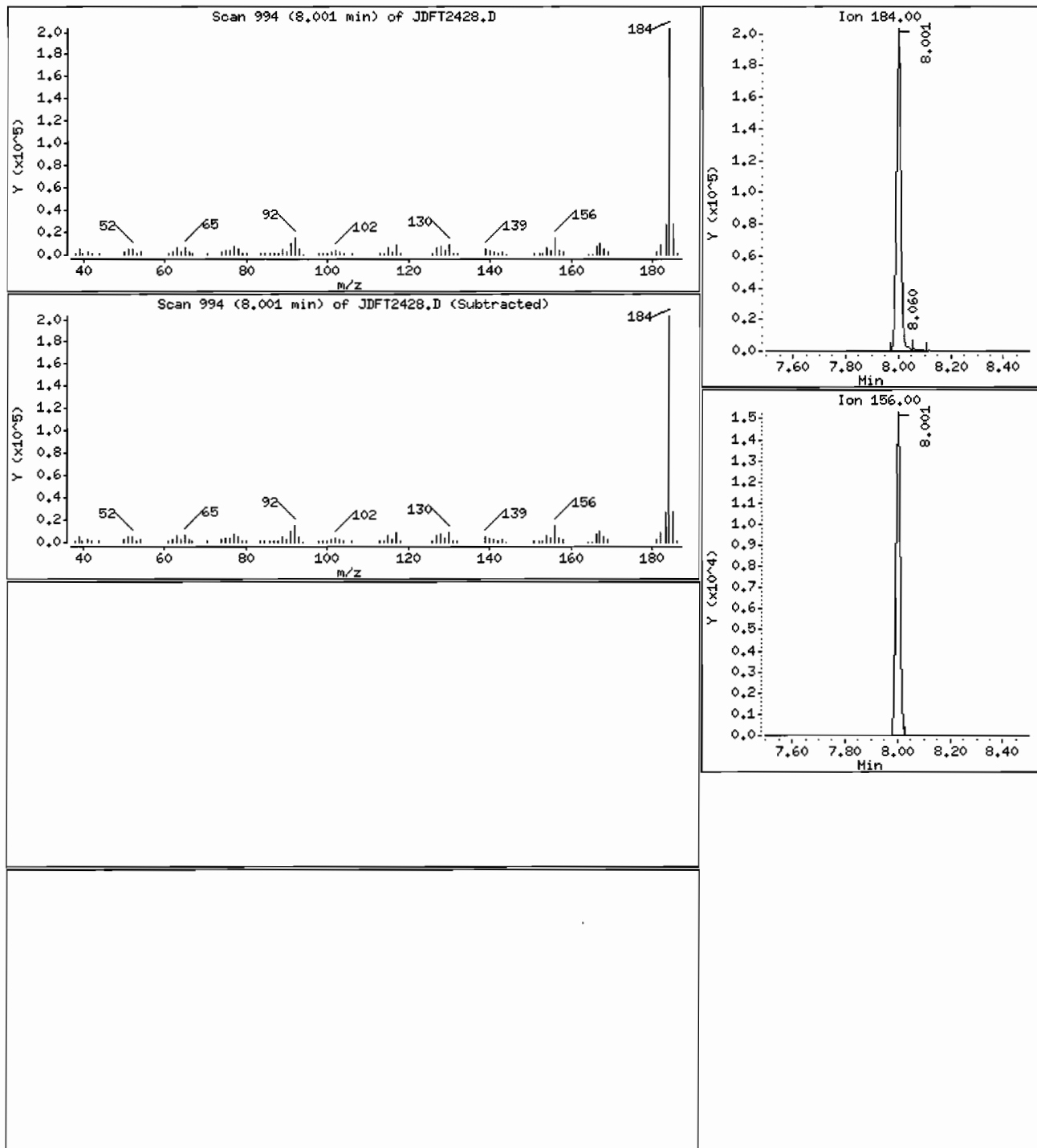
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

3 Benzidine



Data File: \\S1svr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

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Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ.i

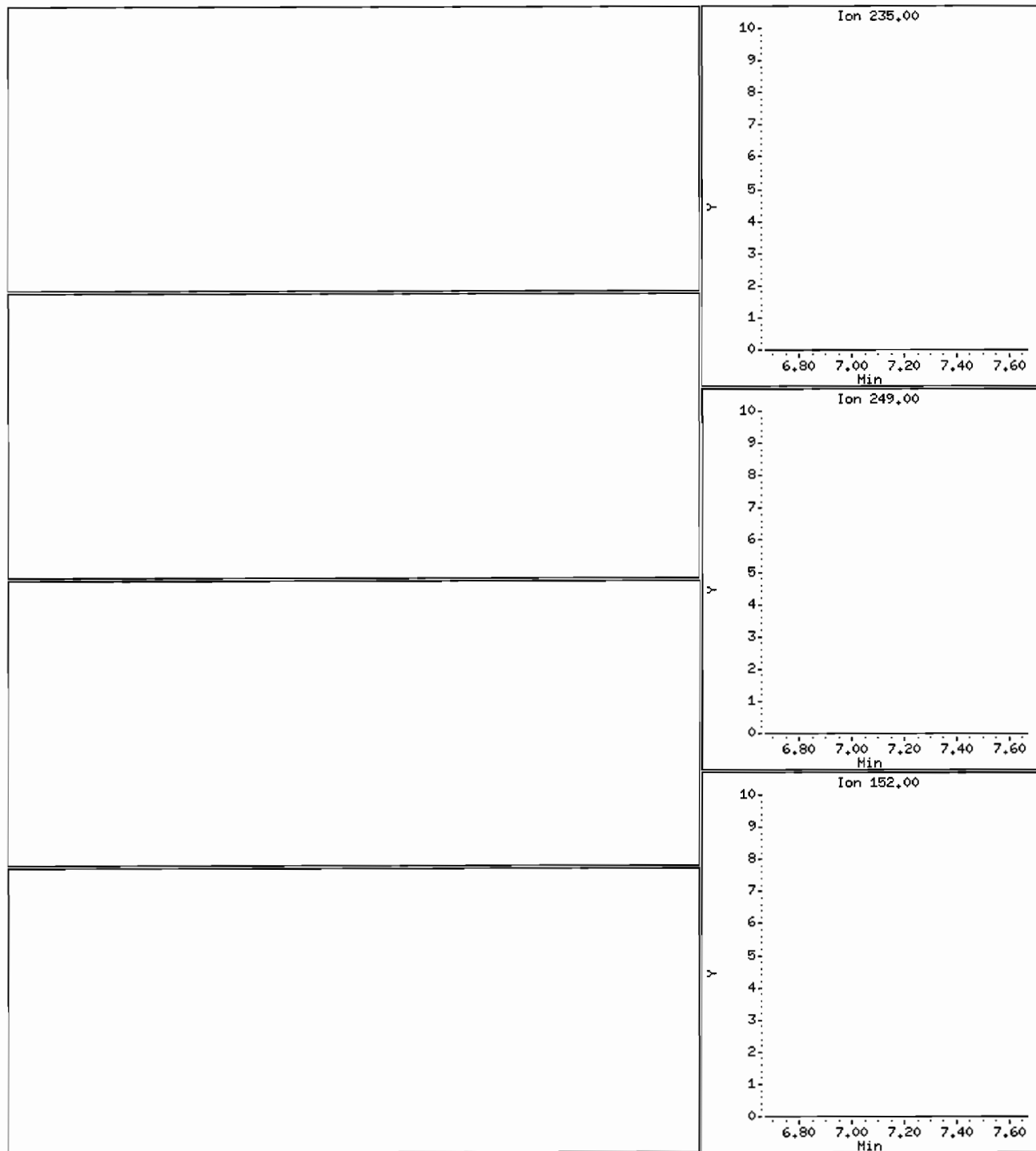
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

4 4,4'-DDD (Undetected)



Data File: \\slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428.D\JDFT2428.D

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Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

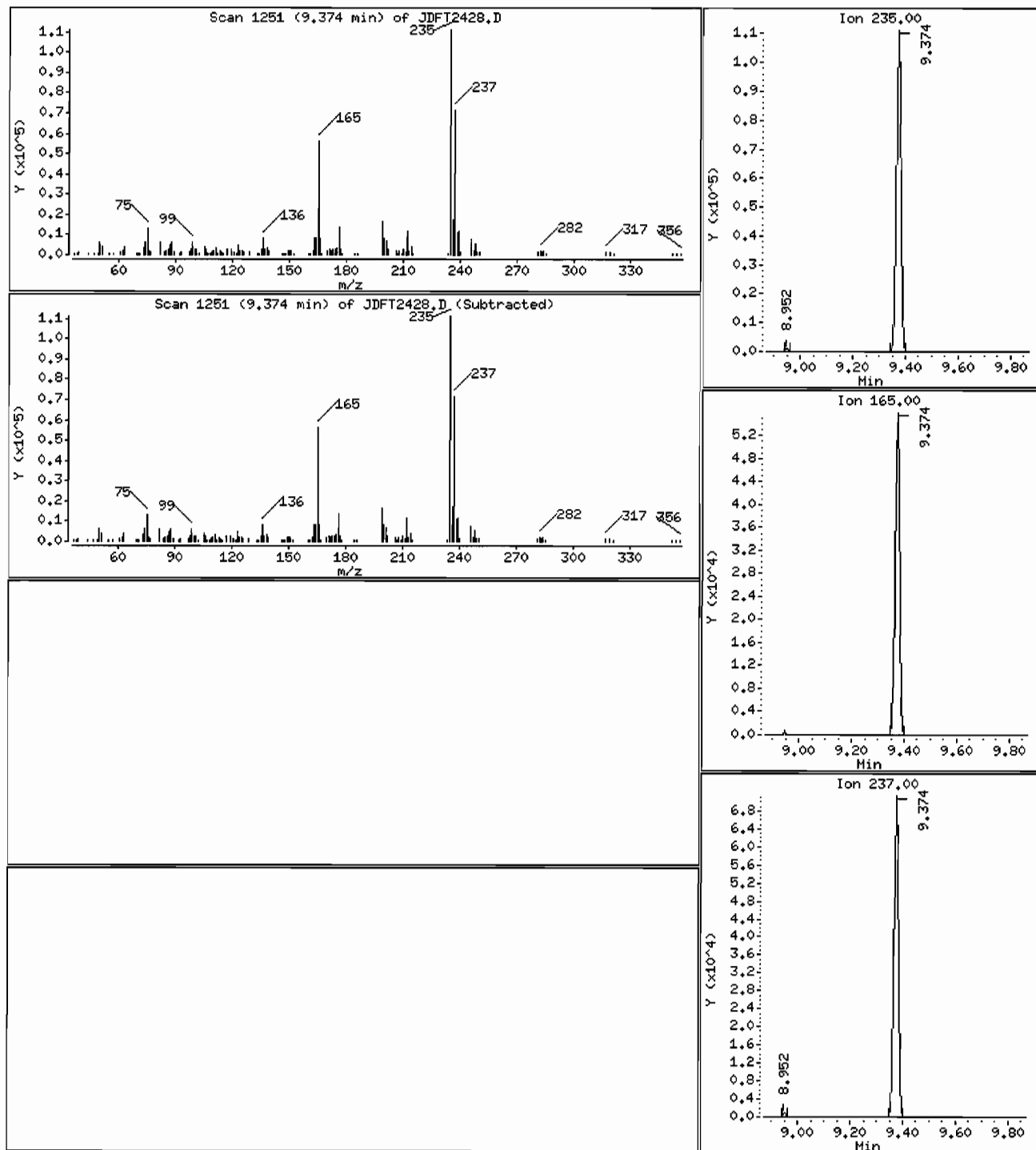
Sample Info: DFTPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

5 4,4'-DDT



Data File: \\slsvr01\BNA\_LAB\MSJ,i\J100415A,B\JDFT2428,D\JDFT2428.D

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Date : 15-APR-2010 10:55

Client ID: SW846-T1

Instrument: MSJ,i

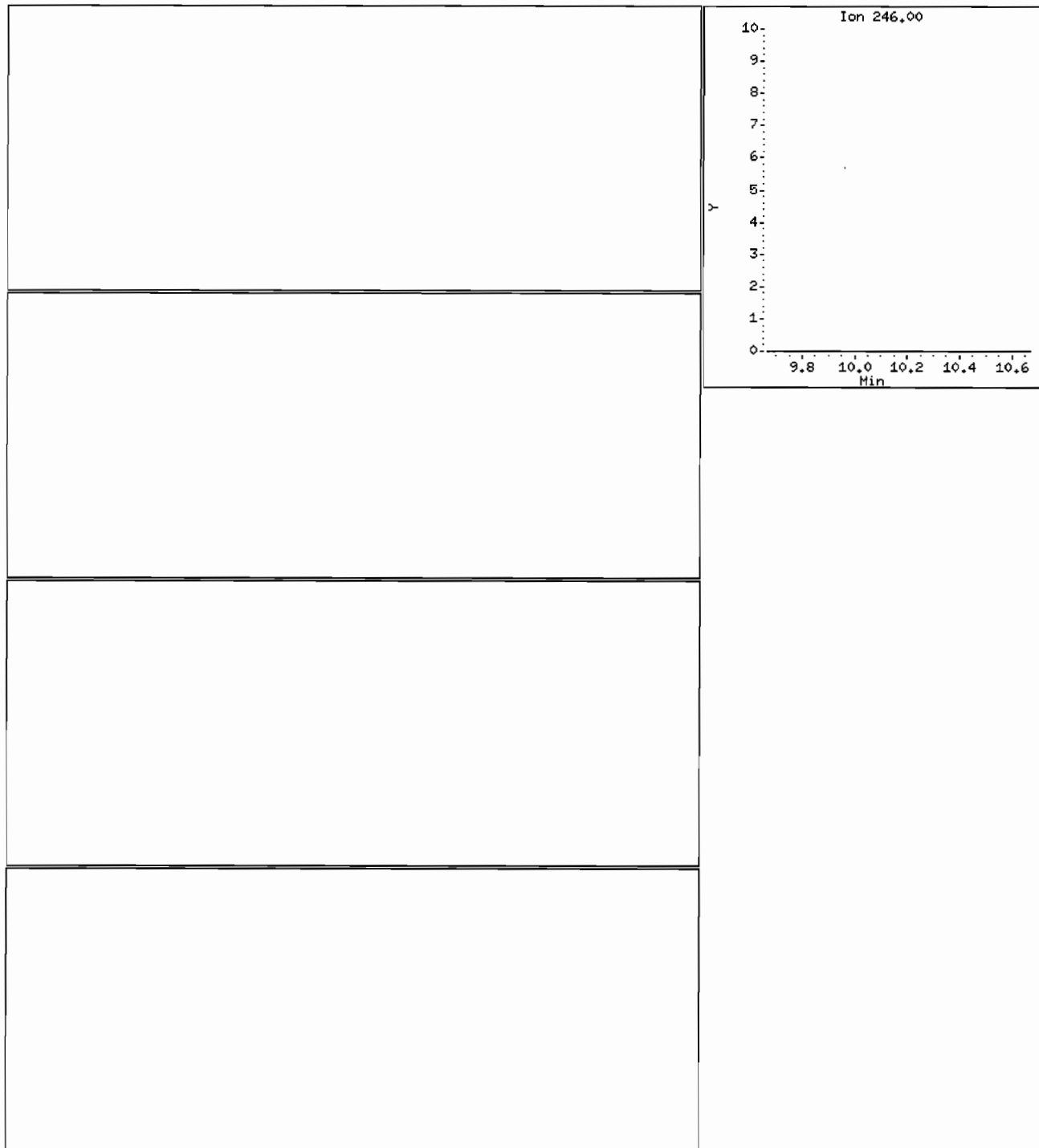
Sample Info: DFIPP

Operator: Tim Matthews

Column phase:

Column diameter: 2.00

6,4'-DDE (Undetected)



## DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 04/15/2010 11:11

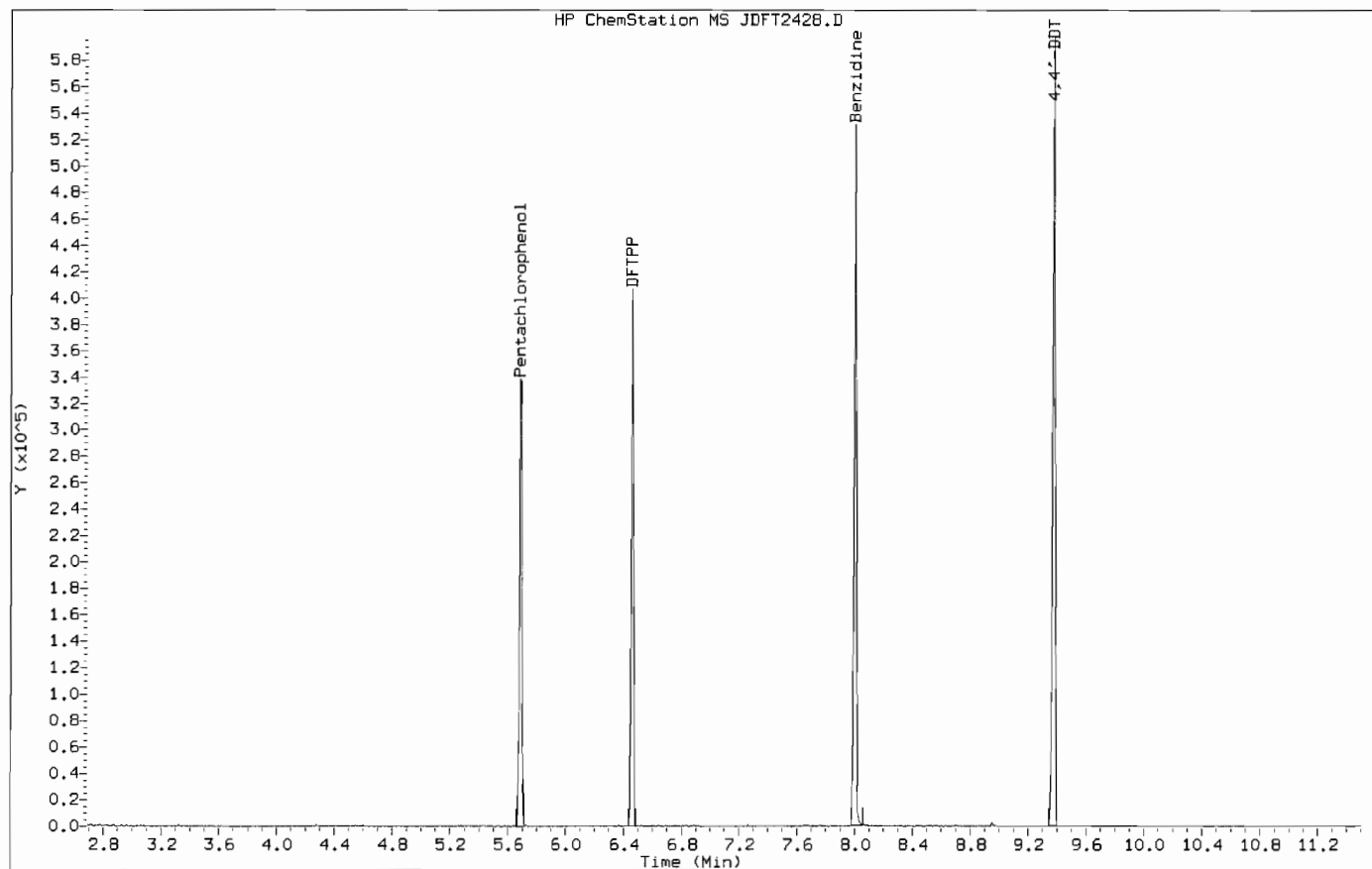
Datafile Analyzed: //Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\JDFT2428.D\JDFT2428.D

Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m Inst: MSJ

Injection Date: 15-APR-2010 10:55 Operator: JW/MAK

Sample Info: DFTPP DFTPP

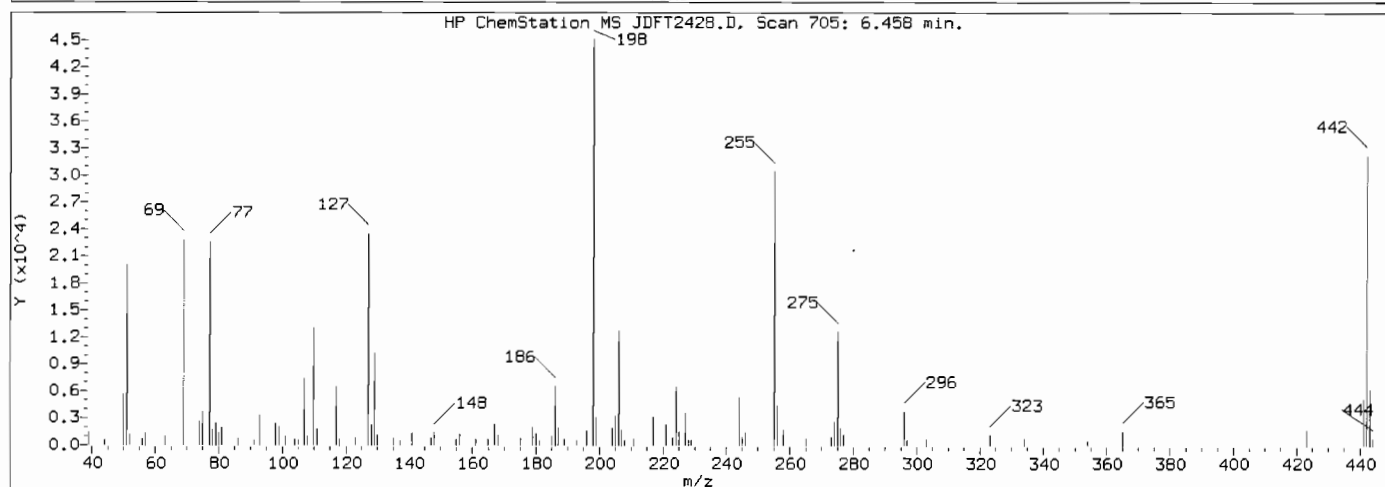
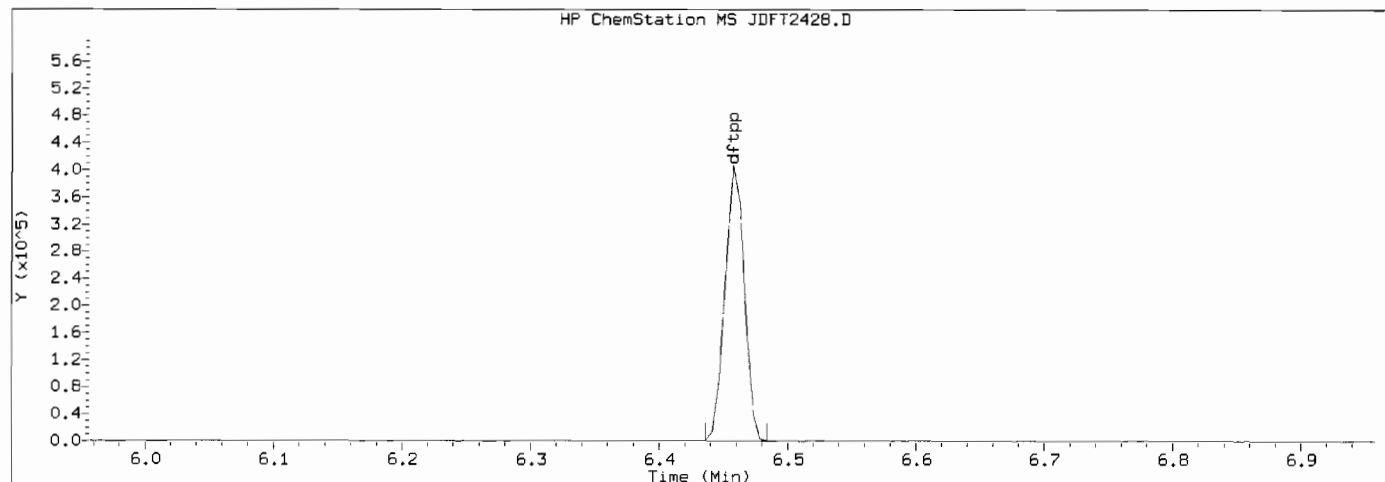
Misc Info: SV0128-10





Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
 Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m Inst: MSJ  
 Injection Date: 15-APR-2010 10:55 Operator: JW/MAK  
 Sample Info: DFTPP DFTPP  
 Misc Info: SV0128-10

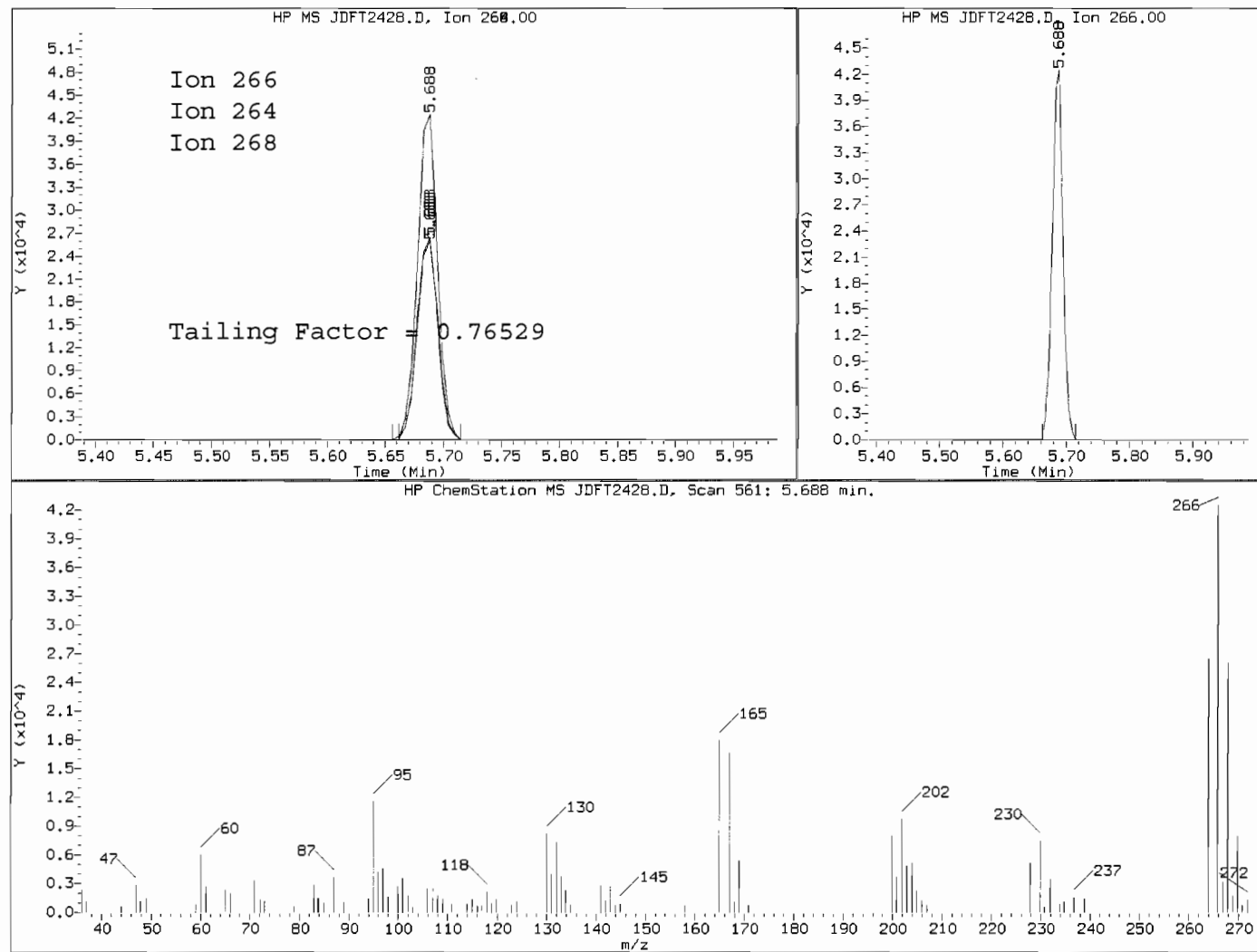


DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	44.16		PASS
68	Less than 2% of mass 69	0.00	( 0.00)	PASS
69	Mass 69 relative abundance	51.06		PASS
70	Less than 2% of mass 69	0.00	( 0.00)	PASS
127	40 - 60% of mass 198	50.77		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	6.90		PASS
275	10 - 30% of mass 198	28.08		PASS
365	Greater than 1% of mass 198	3.39		PASS
441	Present, but less than mass 443	12.01	( 81.65)	PASS
442	Greater than 40% of mass 198	75.18		PASS
443	17 - 23% of mass 442	14.71	( 19.56)	PASS

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



Pentachlorophenol

=====

Exp. RT = 5.680

Found RT = 5.688

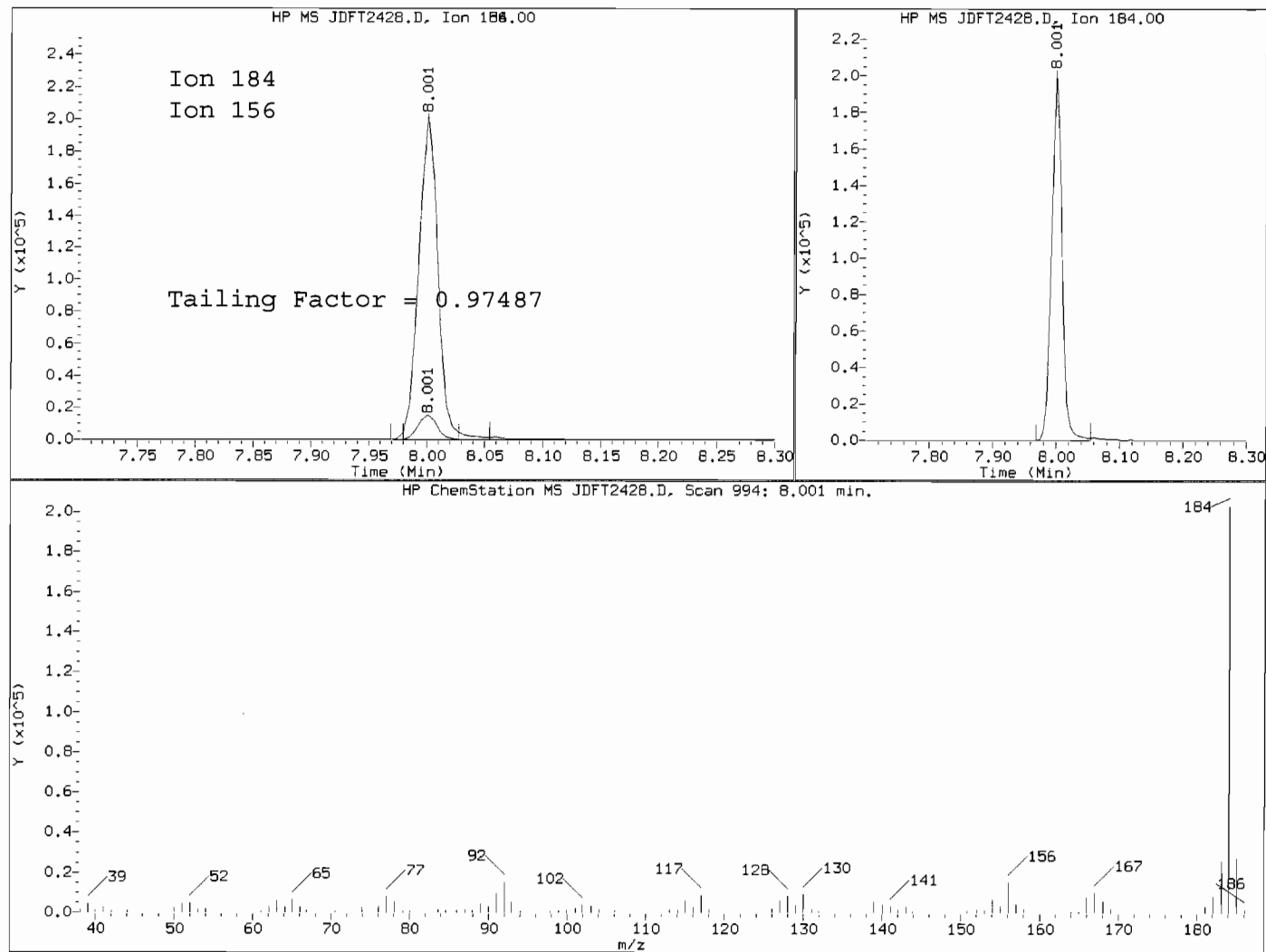
Mass	Area	Ratio
266	51016	100.00
264	32498	63.70
268	32578	63.86

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.765 Maximum Allowed = 5.0

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
 Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
 Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
 Sample Info: SW846-T1 DFTPP  
 Misc Info: SV0128-10



Benzidine

=====

Exp. RT = 8.000

Found RT = 8.001

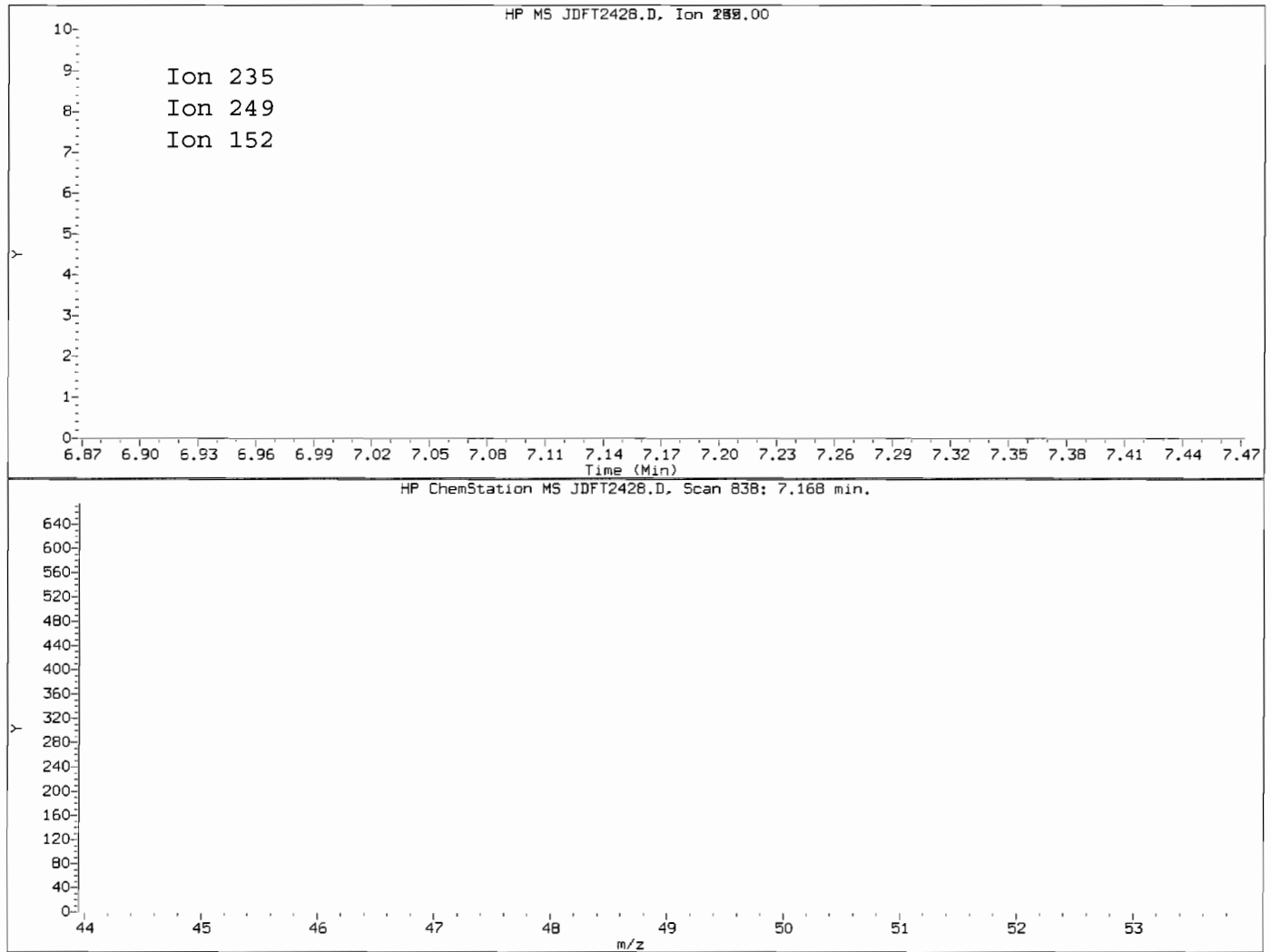
Mass	Area	Ratio
184	233452	100.00
156	17379	7.44

Tailing factor for Benzidine OK

Tail Factor = 0.975 Maximum Allowed = 3.0

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



4,4'-DDD

=====

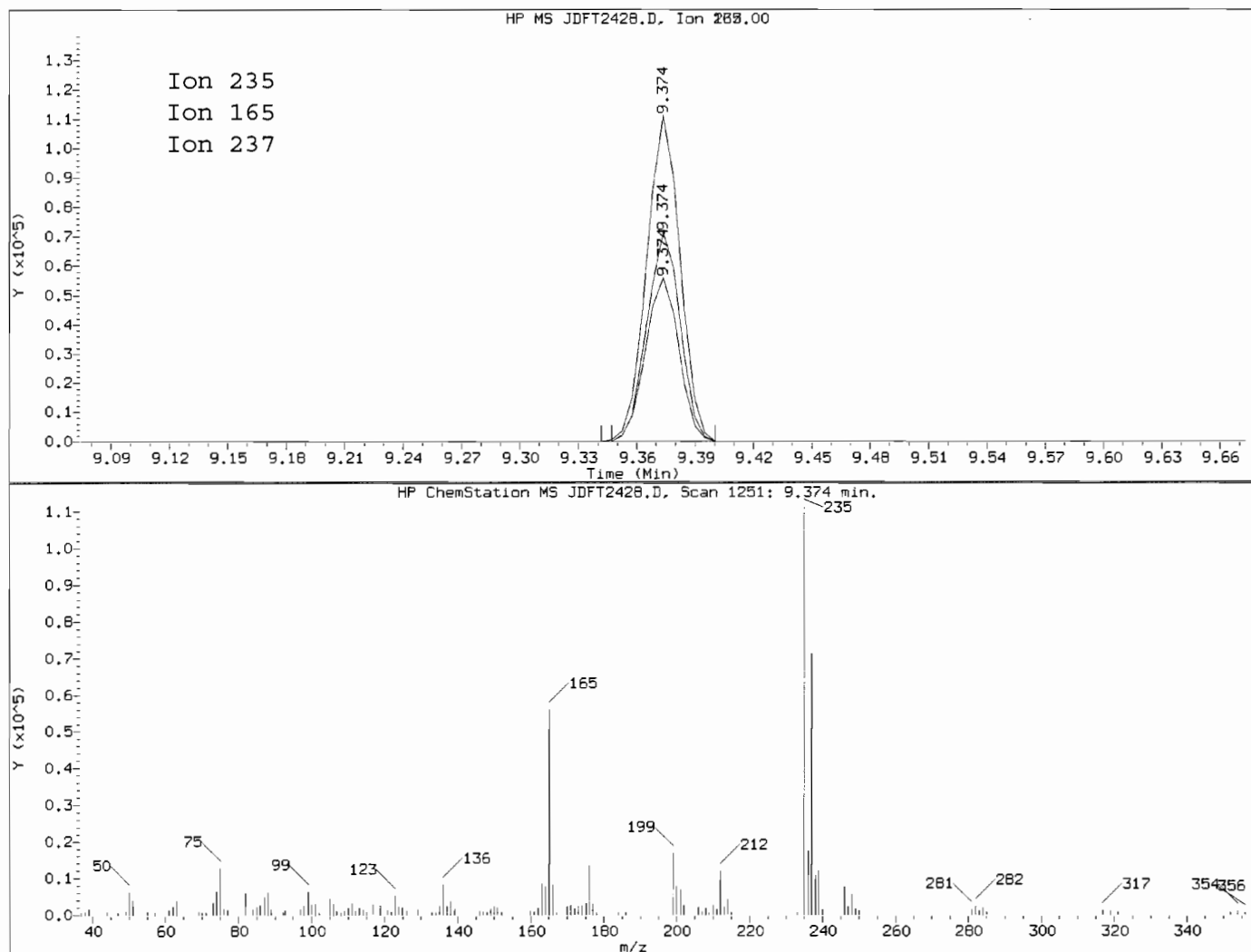
Exp. RT = 7.170

Found RT = 0.000

Mass	Area	Ratio
----	----	----
235	0	0.00
249	0	0.00
152	0	0.00

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



4,4'-DDT

=====

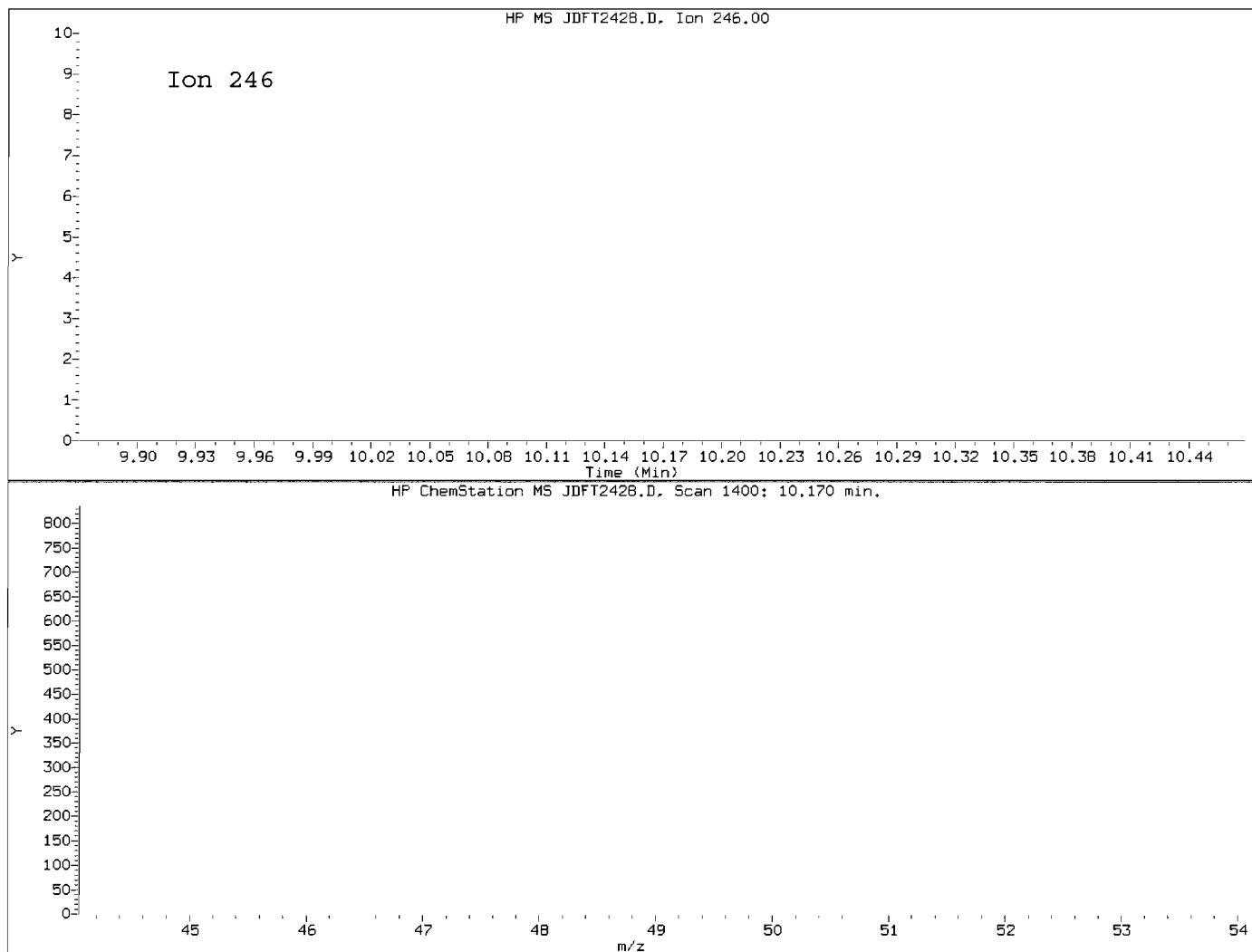
Exp. RT = 9.370

Found RT = 9.374

Mass	Area	Ratio
235	132015	100.00
165	66689	50.52
237	84694	64.16

Report Date: 04/15/2010 11:11

Datafile Analyzed: //Slsvr01/BNA\_LAB/MSJ.i/J100415A.B/JDFT2428.D/JDFT2428.D  
Method Used: \\Slsvr01\BNA\_LAB\MSJ.i\J100415A.B\sw846tun.m\resolut.m Inst: MSJ  
Injection Date: 15-APR-2010 10:55 Operator: Tim Matthews  
Sample Info: SW846-T1 DFTPP  
Misc Info: SV0128-10



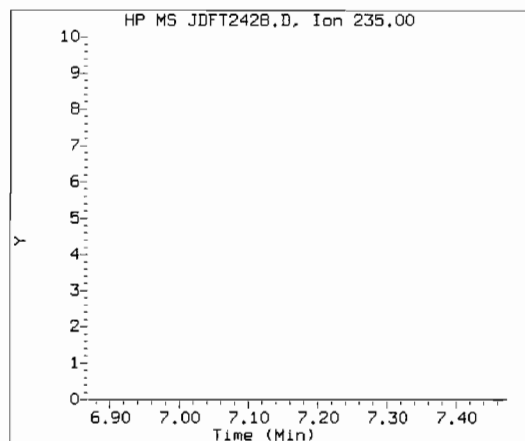
4,4'-DDE

=====

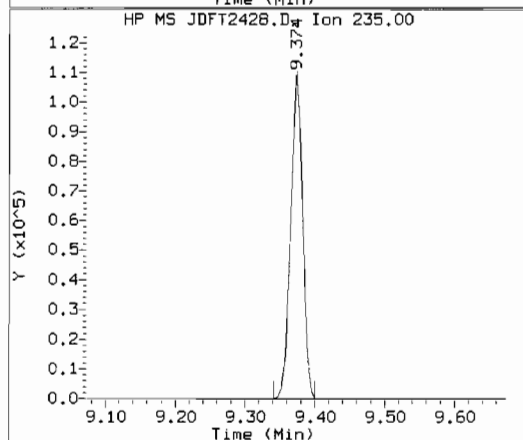
Exp. RT = 10.170

Found RT = 0.000

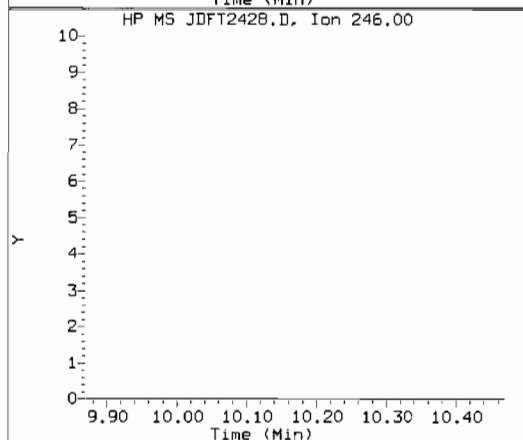
Mass	Area	Ratio
246	0	0.00



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 0.000  
 Area: 0



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 9.374  
 Area: 132015



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 0.000  
 Area: 0

#### DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	132015			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

\*\*\*\*\*  
 TUNE SAMPLE \*\*\* PASSED \*\*\* DDT BREAKDOWN TEST  
 \*\*\*\*\*

## **GC/MS RAW SAMPLE DATA**



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
 Report Date: 16-Apr-2010 11:39

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
 Lab Smp Id: LXL41A8 Client Smp ID: WST32-10-13889  
 Inj Date : 15-APR-2010 17:58  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXL41A8  
 Misc Info : F0D070439-002 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----	-----	-----
\$ 10 2-Fluorophenol	112		4.561	4.549	(0.829)		151703	57.5564	1918
\$ 15 Phenol-d5	99		5.234	5.227	(0.951)		194720	57.7476	1925
* 22 1,4-Dichlorobenzene-d4	152		5.501	5.495	(1.000)		91906	40.0000	
\$ 36 Nitrobenzene-d5	82		5.934	5.927	(0.917)		132018	36.8819	1229
* 48 Naphthalene-d8	136		6.468	6.461	(1.000)		324069	40.0000	
\$ 69 2-Fluorobiphenyl	172		7.296	7.289	(0.929)		238166	36.4861	1216
* 82 Acenaphthene-d10	164		7.857	7.850	(1.000)		182864	40.0000	
\$ 104 2,4,6-Tribromophenol	330		8.498	8.491	(0.939)		58716	57.7526	1925
* 121 Phenanthrene-d10	188		9.048	9.041	(1.000)		351279	40.0000	
122 Phenanthrene	178		9.069	9.062	(1.002)		64246	6.93704	231.2(a)
124 Anthracene	178		9.101	9.100	(1.006)		9275	0.97580	32.53(a)
126 Carbazole	167		9.224	9.217	(1.019)		10550	1.23870	41.29(a)
134 Fluoranthene	202		10.052	10.045	(1.111)		236075	23.8469	794.9
137 Pyrene	202		10.250	10.243	(0.895)		172744	14.1324	471.1
\$ 139 Terphenyl-d14	244		10.340	10.334	(0.903)		269451	28.7703	959.0
150 Benzo(a)Anthracene	228		11.435	11.423	(0.998)		38893	3.48911	116.3(a)
* 153 Chrysene-d12	240		11.457	11.450	(1.000)		441975	40.0000	
154 Chrysene	228		11.489	11.482	(1.003)		88112	7.81173	260.4(a)
160 Benzo(b)fluoranthene	252		13.038	13.025	(0.945)		48481	6.71269	223.8(a)
161 Benzo(k)fluoranthene	252		13.070	13.074	(0.947)		39914	5.03011	167.7(a)

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
Report Date: 16-Apr-2010 11:39

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Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
165 Benzo(a)pyrene	252	13.673	13.666	(0.991)	19063	2.67060	89.02 (a)
* 166 Perylene-d12	264	13.796	13.779	(1.000)	265371	40.0000	
177 Benzo(g,h,i)perylene	276	16.616	16.609	(1.204)	9781	1.48270	49.42 (a)

## QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
 Report Date: 16-Apr-2010 11:39

Page 1

## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
 Lab Smp Id: LXL41A8 Client Smp ID: WST32-10-13889  
 Inj Date : 15-APR-2010 17:58  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXL41A8  
 Misc Info : F0D070439-002 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.502	621838	40.000
* 82 Acenaphthene-d10	7.857	810576	40.000
* 121 Phenanthrene-d10	9.048	1046599	40.000
* 153 Chrysene-d12	11.457	1131421	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ethanone, 1-cyclopropyl-					CAS #:		
2.602	78095	5.02349040	167.4	90	NIST05.L	1404	22
Unknown					CAS #:		
3.889	91244	5.86933666	195.6	0		0	22
Unknown Aldol Condensate					CAS #:		
4.306	3315029	213.240641	7108	0		0	22



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
Report Date: 16-Apr-2010 11:39

Page 2

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
5.897	73875	4.75206832	158.4	0		0	22
Unknown					CAS #:		
7.542	417639	20.6094615	687.0	0		0	82
Unknown					CAS #:		
8.311	109663	5.41161132	180.4	0		0	82
Unknown					CAS #:		
9.999	106209	4.05921358	135.3	0		0	121
Unknown					CAS #:		
10.165	192266	7.34822242	244.9	0		0	121
Unknown					CAS #:		
10.560	227066	8.02763227	267.6	0		0	153
Unknown					CAS #:		
10.720	304223	10.7554154	358.5	0		0	153
Unknown					CAS #:		
10.950	281992	9.96947179	332.3	0		0	153
Unknown					CAS #:		
11.073	198397	7.01407644	233.8	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D  
 Report Date: 16-Apr-2010 11:39

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2445.D Calibration Time: 11:13  
 Lab Smp Id: LXL41A8 Client Smp ID: WST32-10-13889  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D070439-002 (0100038) SON

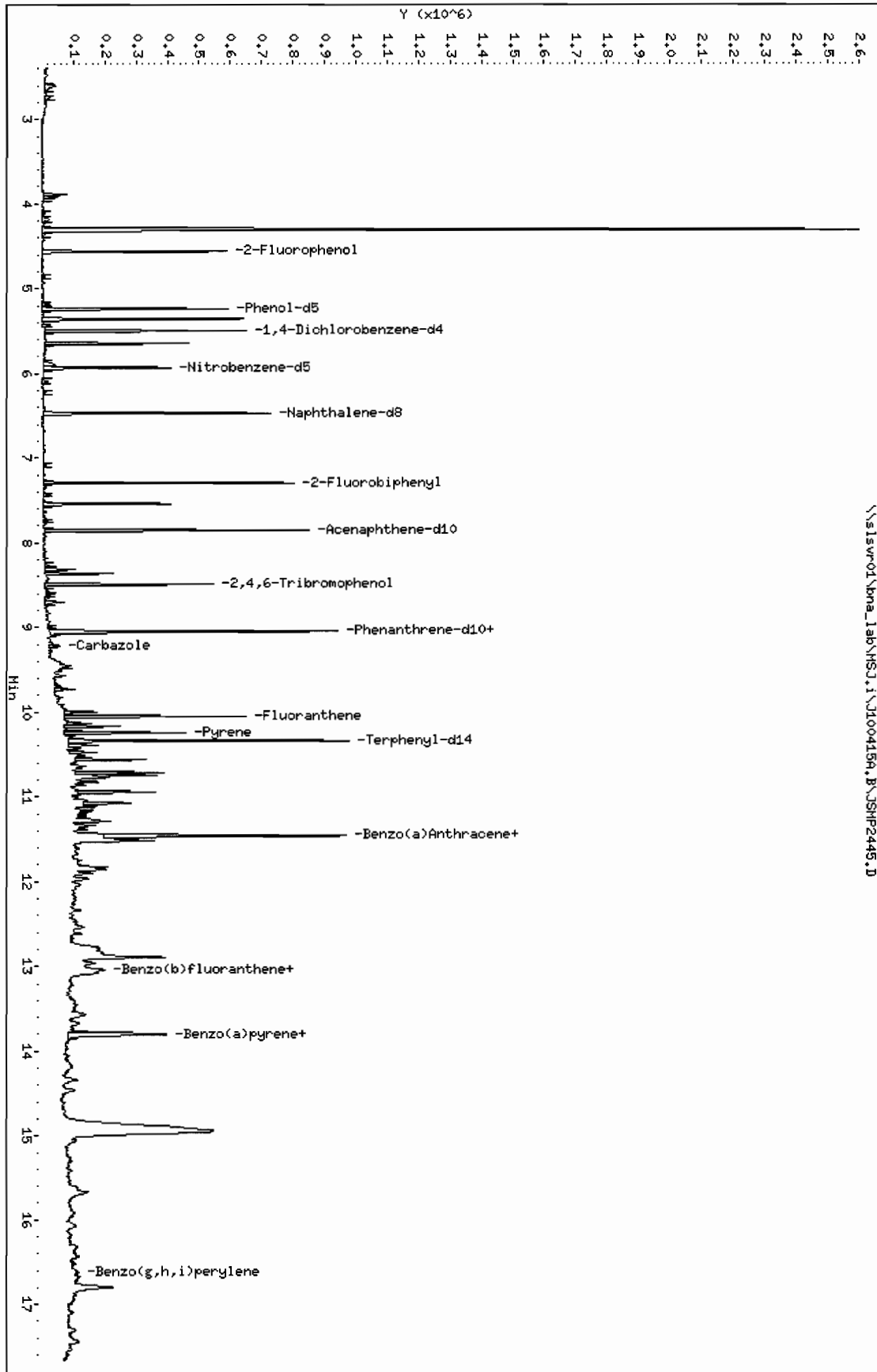
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	91906	-10.09
48 Naphthalene-d8	360526	180263	721052	324069	-10.11
82 Acenaphthene-d10	206190	103095	412380	182864	-11.31
121 Phenanthrene-d10	415780	207890	831560	351279	-15.51
153 Chrysene-d12	446285	223143	892570	441975	-0.97
166 Perylene-d12	410994	205497	821988	265371	-35.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.13
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.11
82 Acenaphthene-d10	7.85	7.35	8.35	7.86	0.09
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.08
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.06
166 Perylene-d12	13.78	13.28	14.28	13.80	0.13

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: \\slsvr01\bna\_lab\MSJ.i\J1004159.B\JSHF2445.D  
Date: 15-APR-2010 17:58  
Client ID: MST32-10-13889  
Sample Info: LXL R41A8  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.i  
Operator: JM/HAK  
Column diameter: 2.00



Data File: \\slsvr01\lba\_lab\MSJ,i\J100415A,B\JSM2445.D

Page 2

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

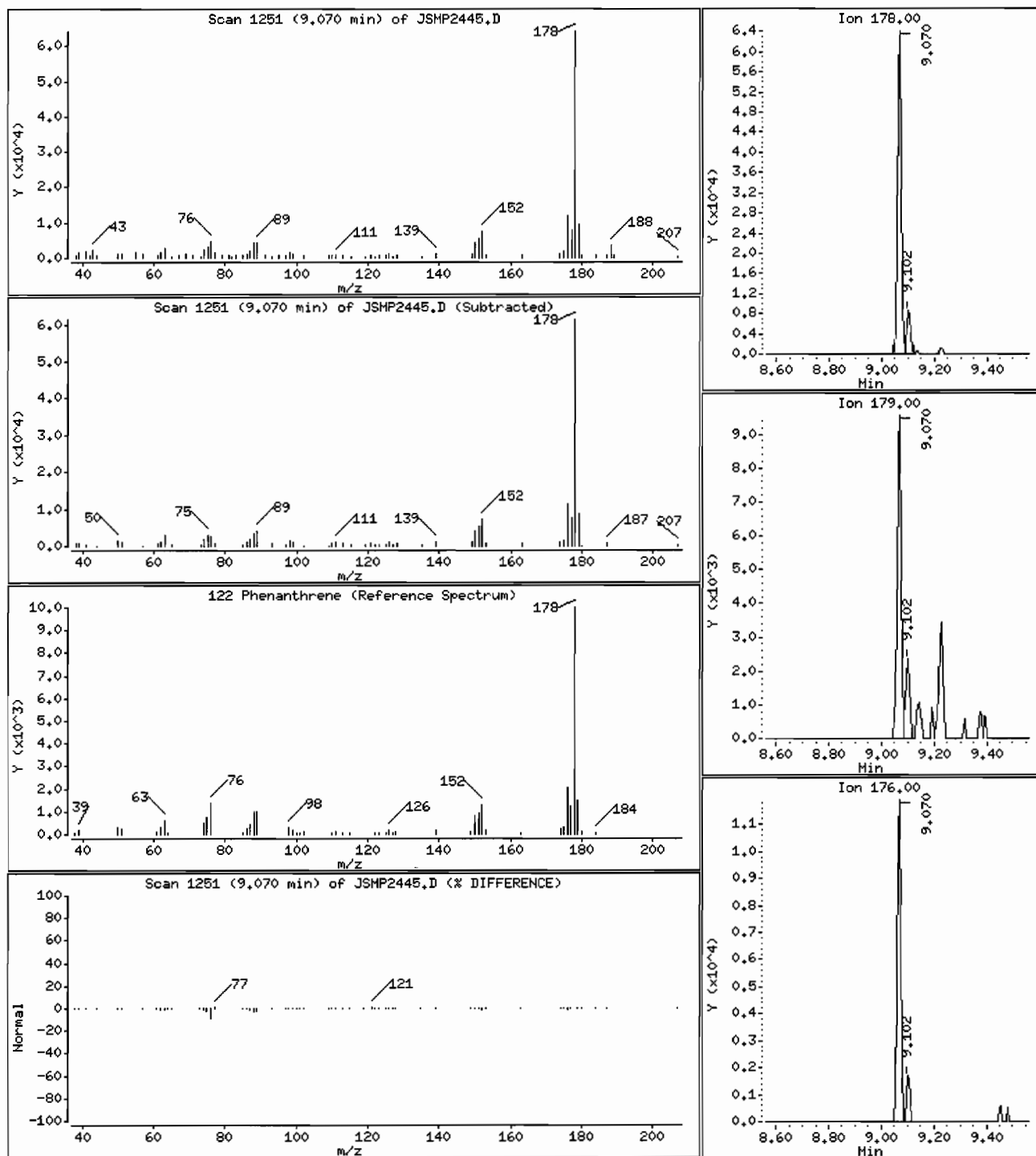
Operator: JW/MAK

Column phase:

Column diameter: 2.00

122 Phenanthrene

Concentration: 231.2 ug/Kg





Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2445.D

Page 3

Date: 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXLRL41A8

Volume Injected (uL): 1.0

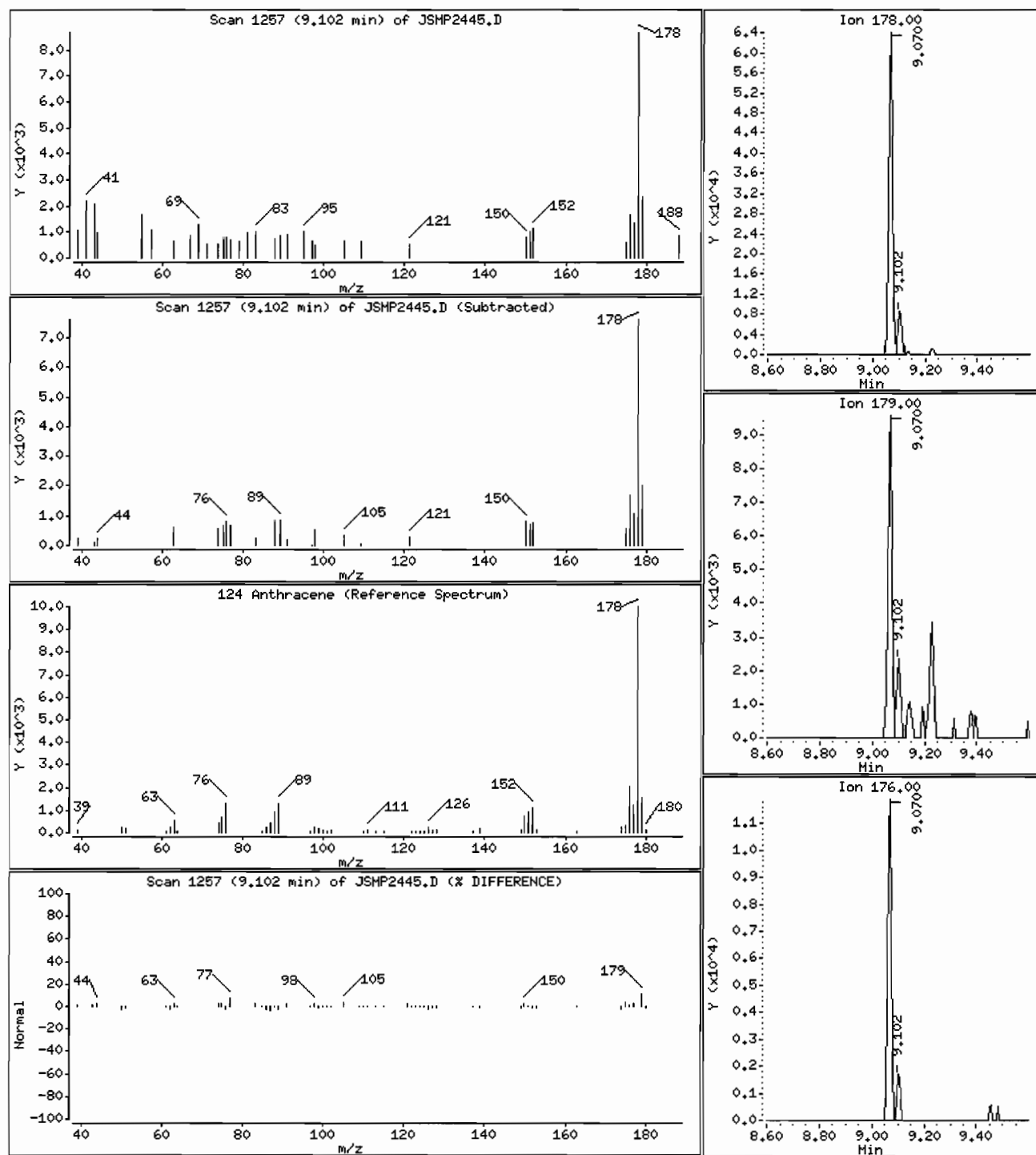
Operator: JW/MAK

Column phase:

Column diameter: 2.00

124 Anthracene

Concentration: 32.53 ug/Kg



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A,B\JSMP2445.D

Page 4

Date: 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXLR41A8

Volume Injected (uL): 1.0

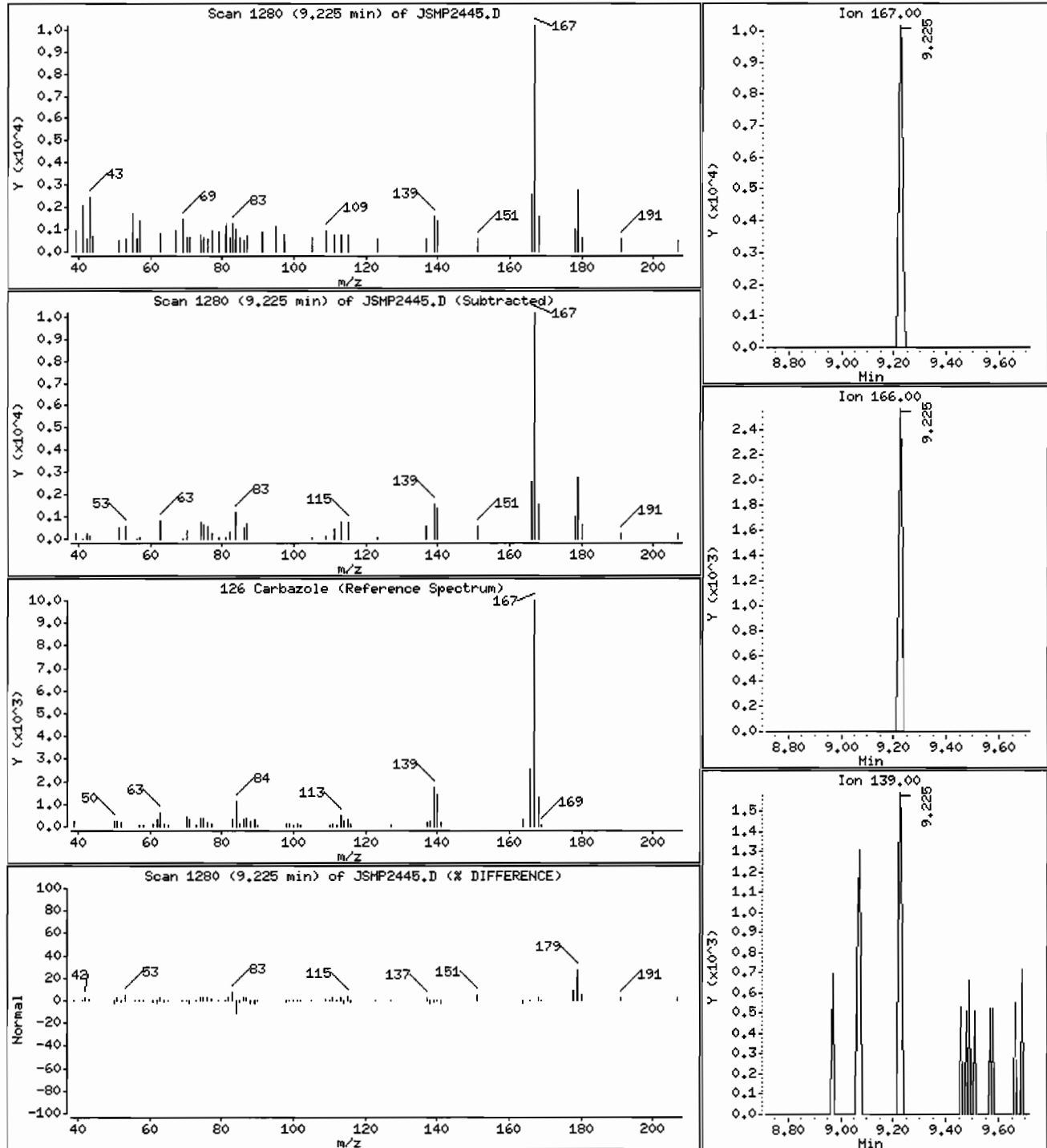
Operator: JW/MAK

Column phase:

Column diameter: 2.00

126 Carbazole

Concentration: 41.29 ug/Kg



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSHMP2445.D

Page 5

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

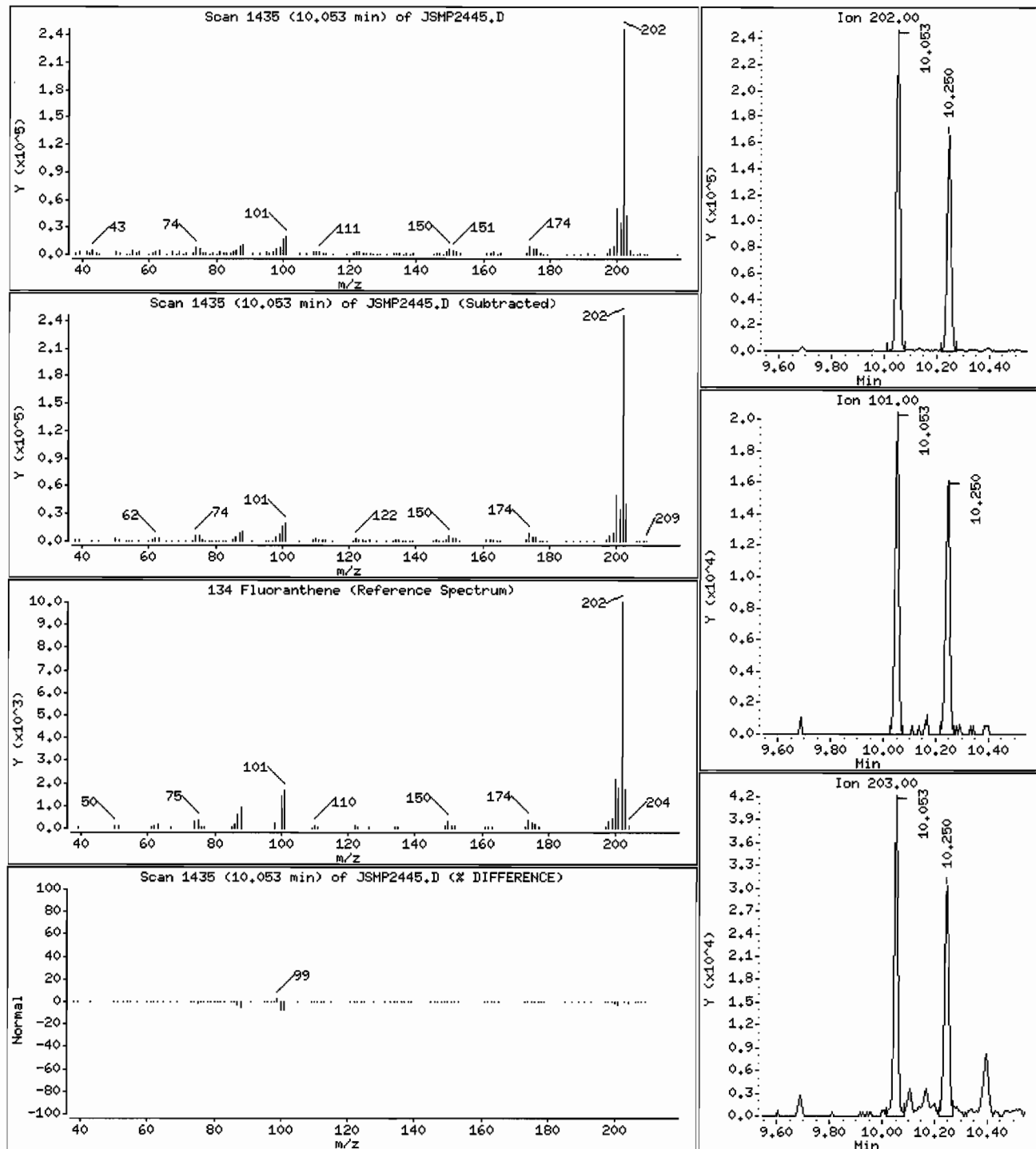
Operator: JW/HAK

Column phase:

Column diameter: 2.00

134 Fluoranthene

Concentration: 794.9 ug/Kg



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSHMP2445.D

Page 6

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

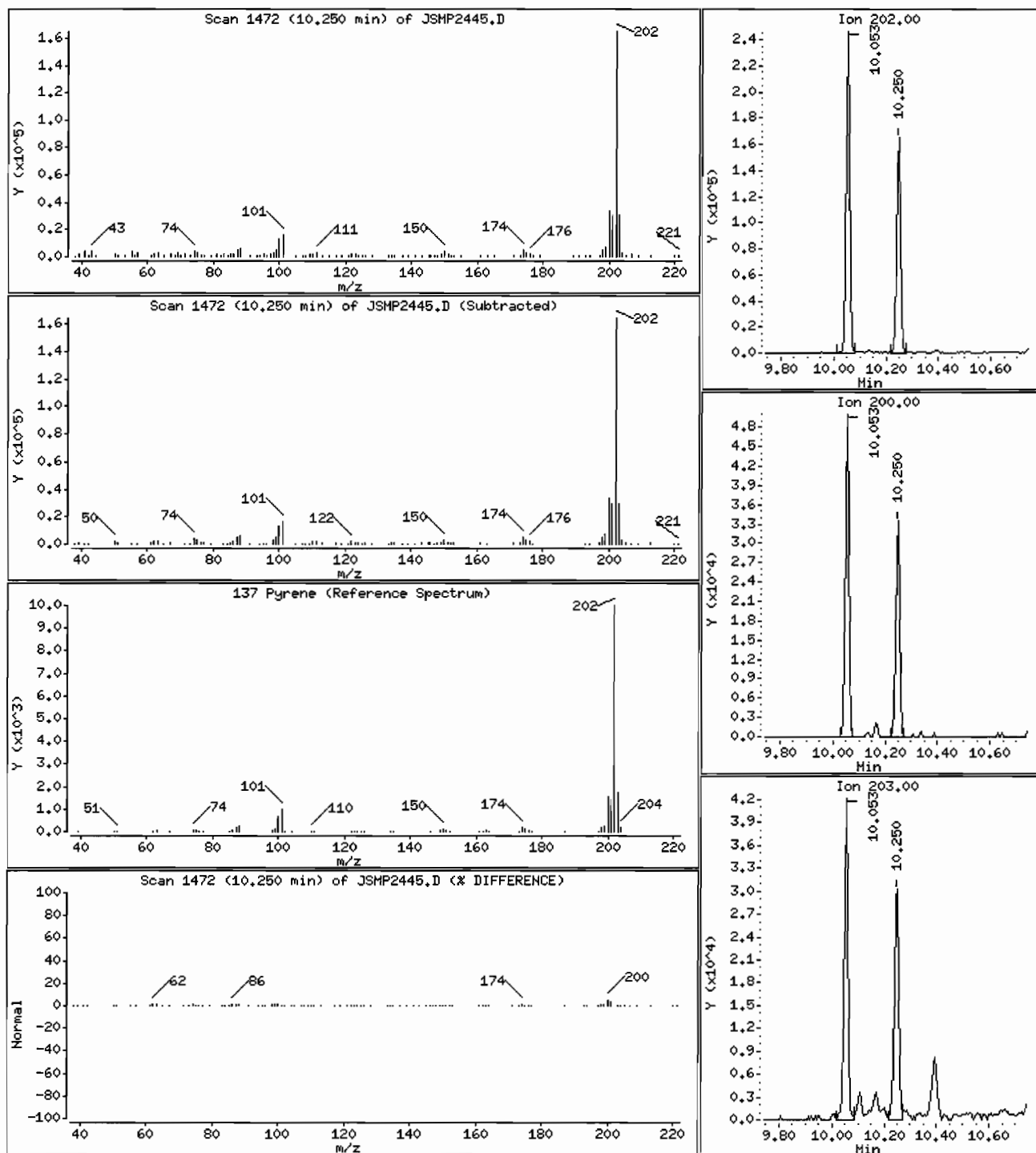
Operator: JW/MAK

Column phase:

Column diameter: 2.00

137 Pyrene

Concentration: 471.1 ug/Kg



Data File: \\slsvr01\lbnalab\MSJ.i\J100415A.B\JSM2445.D

Page 7

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXR41A8

Volume Injected (uL): 1.0

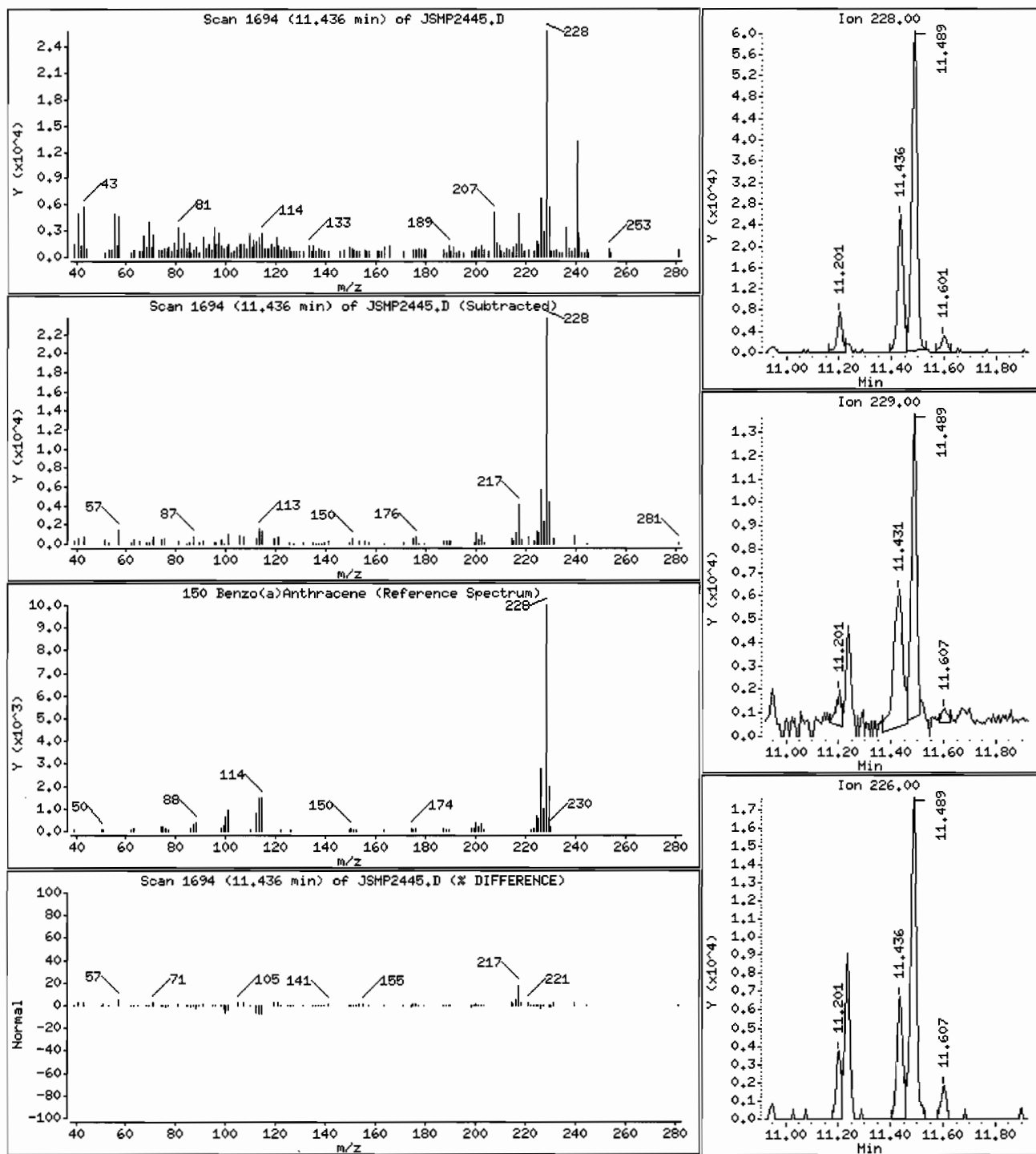
Operator: JW/MAK

Column phase:

Column diameter: 2.00

150 Benzo(a)Anthracene

Concentration: 116.3 ug/Kg



Data File: \\slsvr01\hna\_lab\HSJ,i\J100415A,B\JSP2445.D

Page 8

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: HSJ,i

Sample Info: LXR41A8

Volume Injected (uL): 1.0

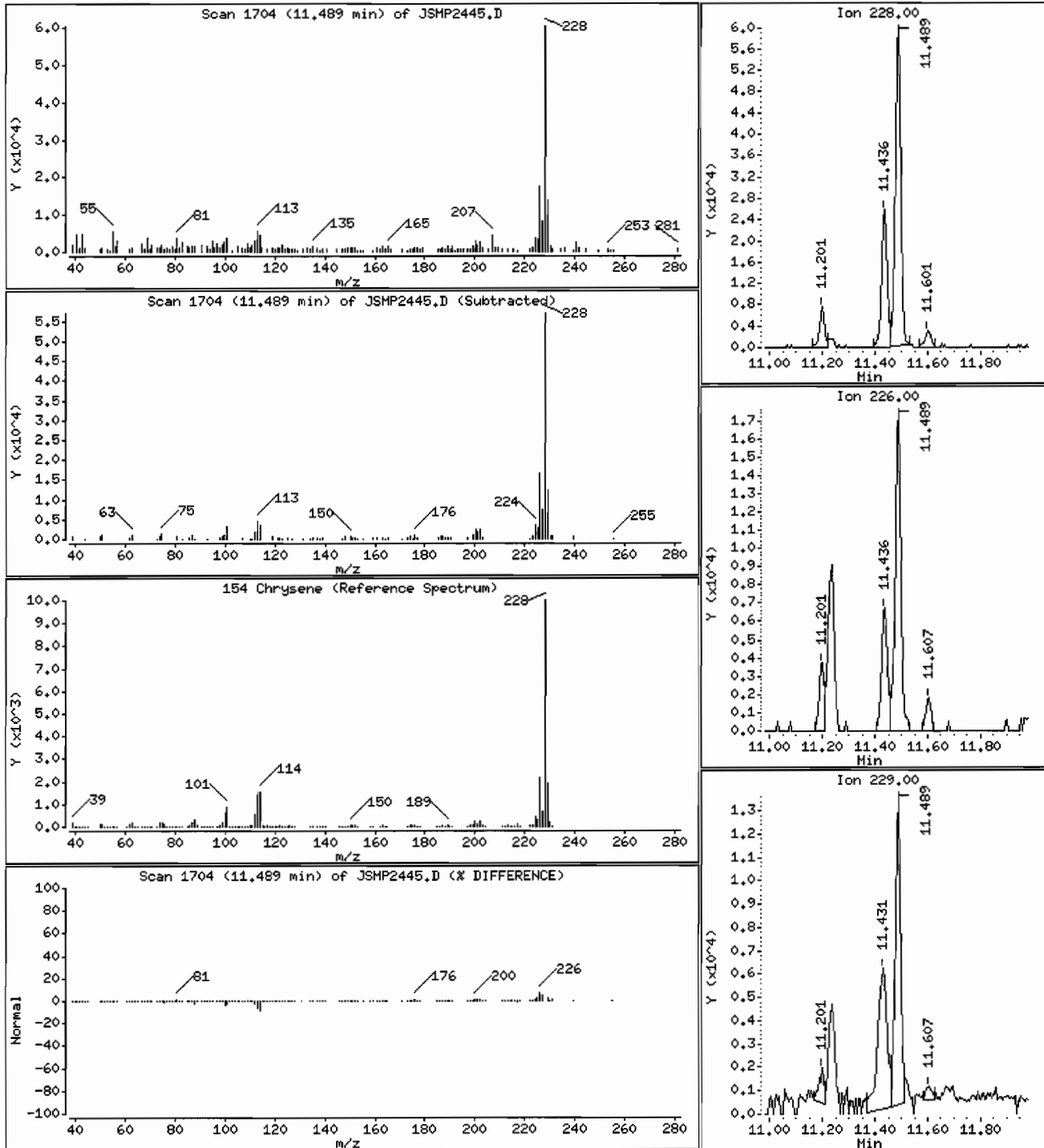
Operator: JW/MAK

Column phase:

Column diameter: 2.00

154 Chrysene

Concentration: 260.4 ug/Kg



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2445.D

Page 9

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

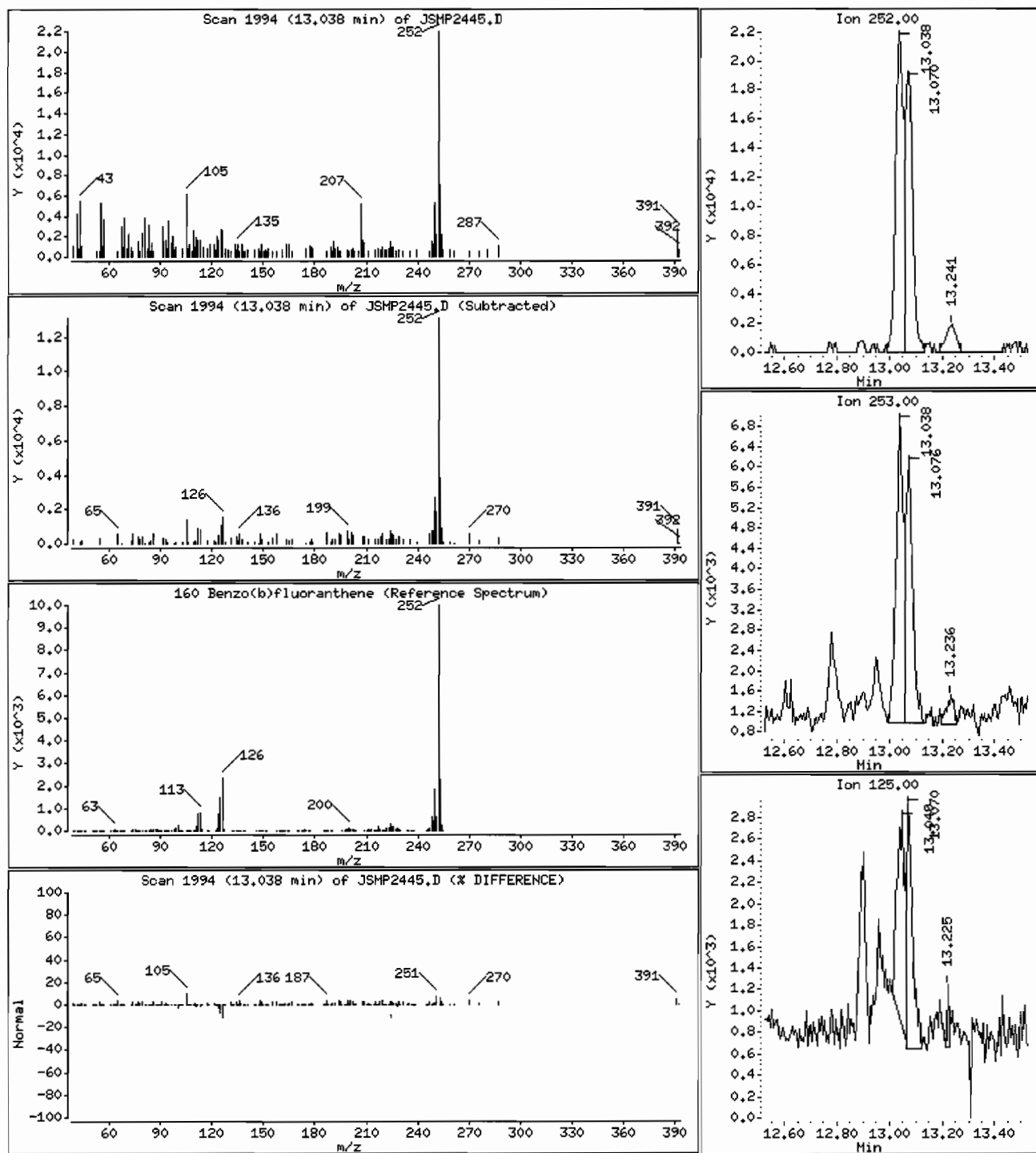
Operator: JW/HAK

Column phase:

Column diameter: 2.00

160 Benzo(b)fluoranthene

Concentration: 223.8 ug/Kg



Data File: \\slsvr01\bna\_lab\HSJ,i\J100415A,B\JSHMP2445.D

Page 10

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: HSJ,i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

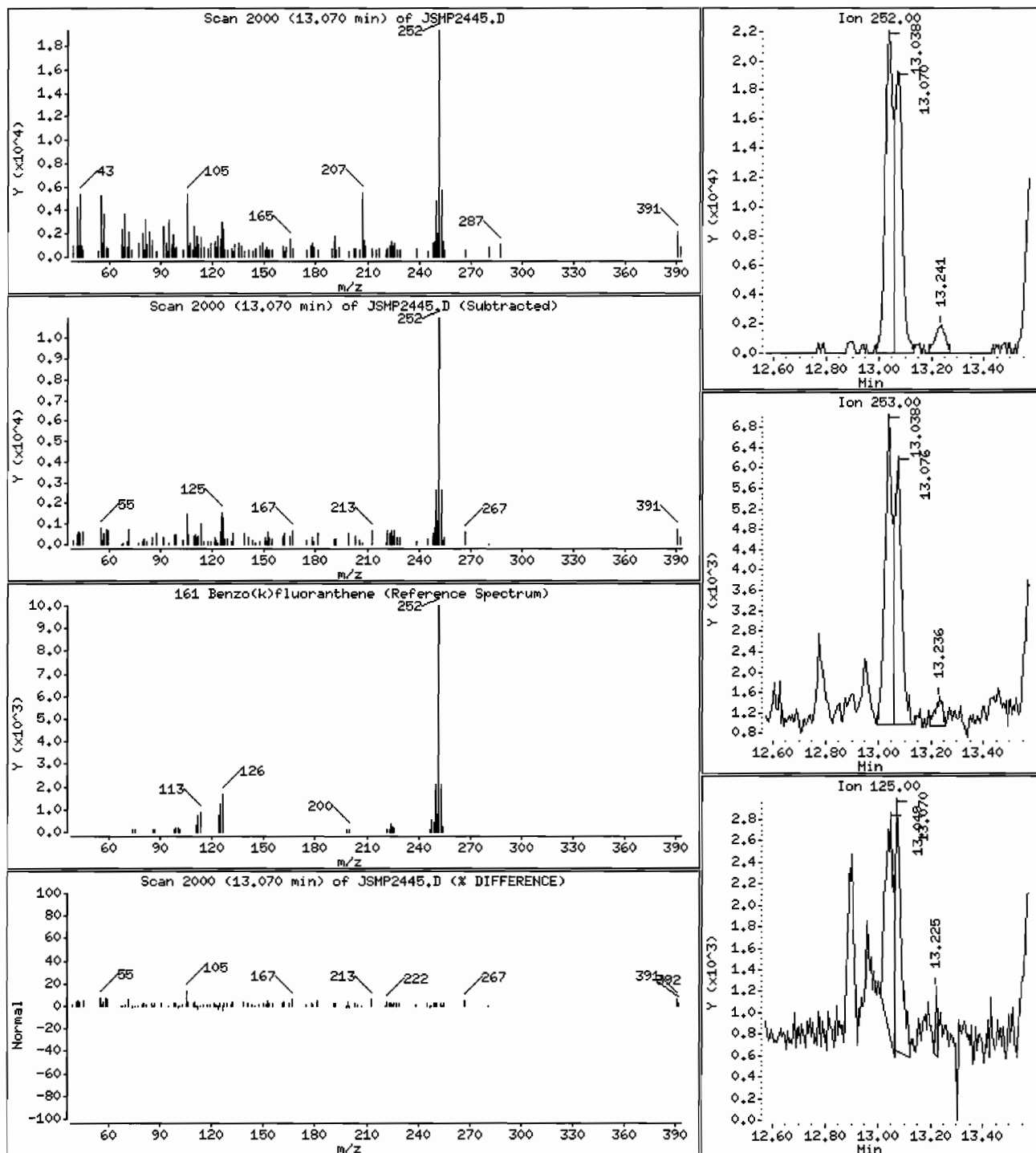
Operator: JW/MAK

Column phase:

Column diameter: 2.00

161 Benzo(k)fluoranthene

Concentration: 167.7 ug/Kg





Data File: \\slsvr01\lbnalab\MSJ.i\J100415A.B\JSMP2445.D

Page 11

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXLRL41A8

Volume Injected (uL): 1.0

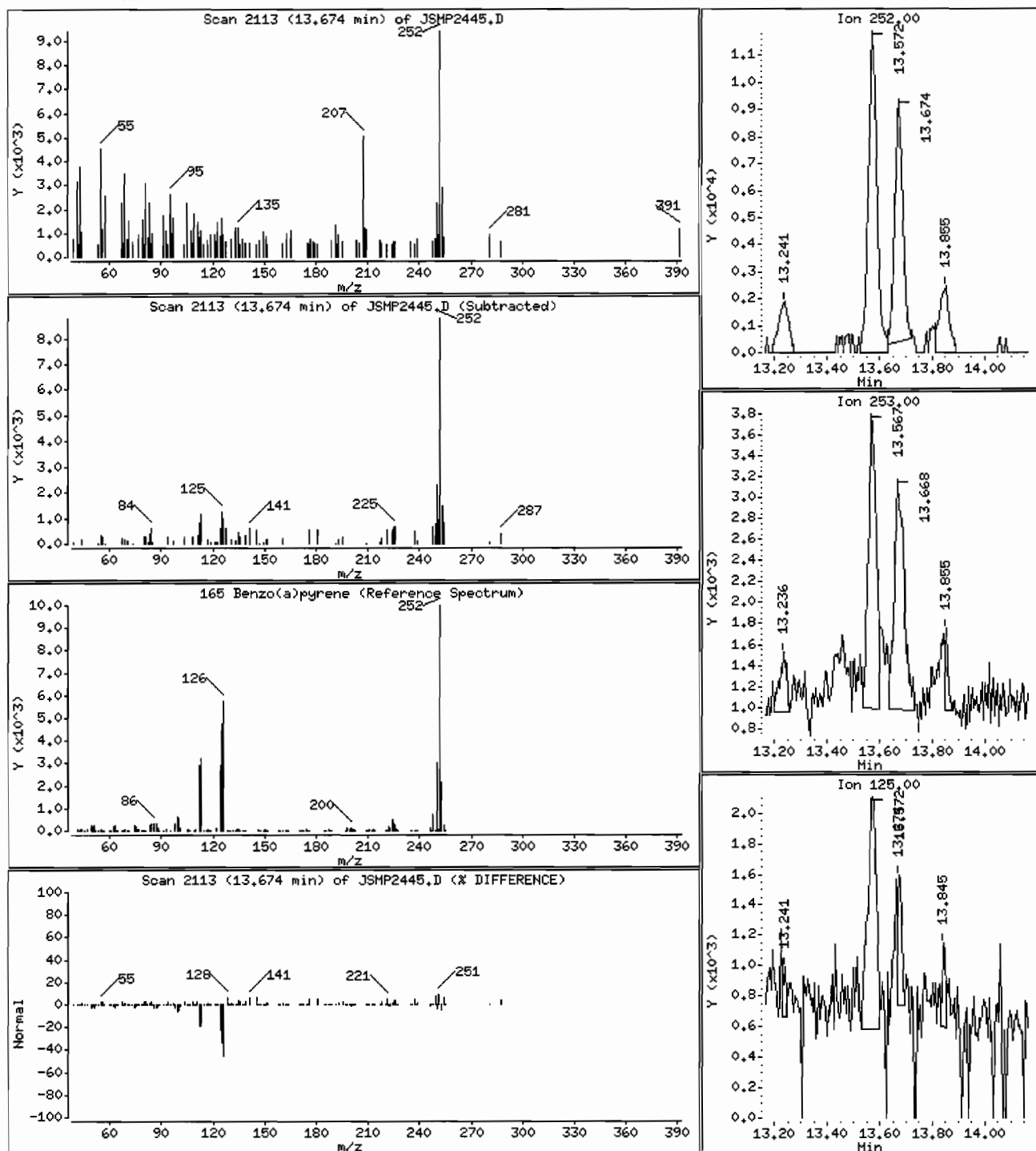
Operator: JW/MAK

Column phase:

Column diameter: 2.00

165 Benzo(a)pyrene

Concentration: 89.02 ug/Kg



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHP2445.D

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Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

Volume Injected (uL): 1.0

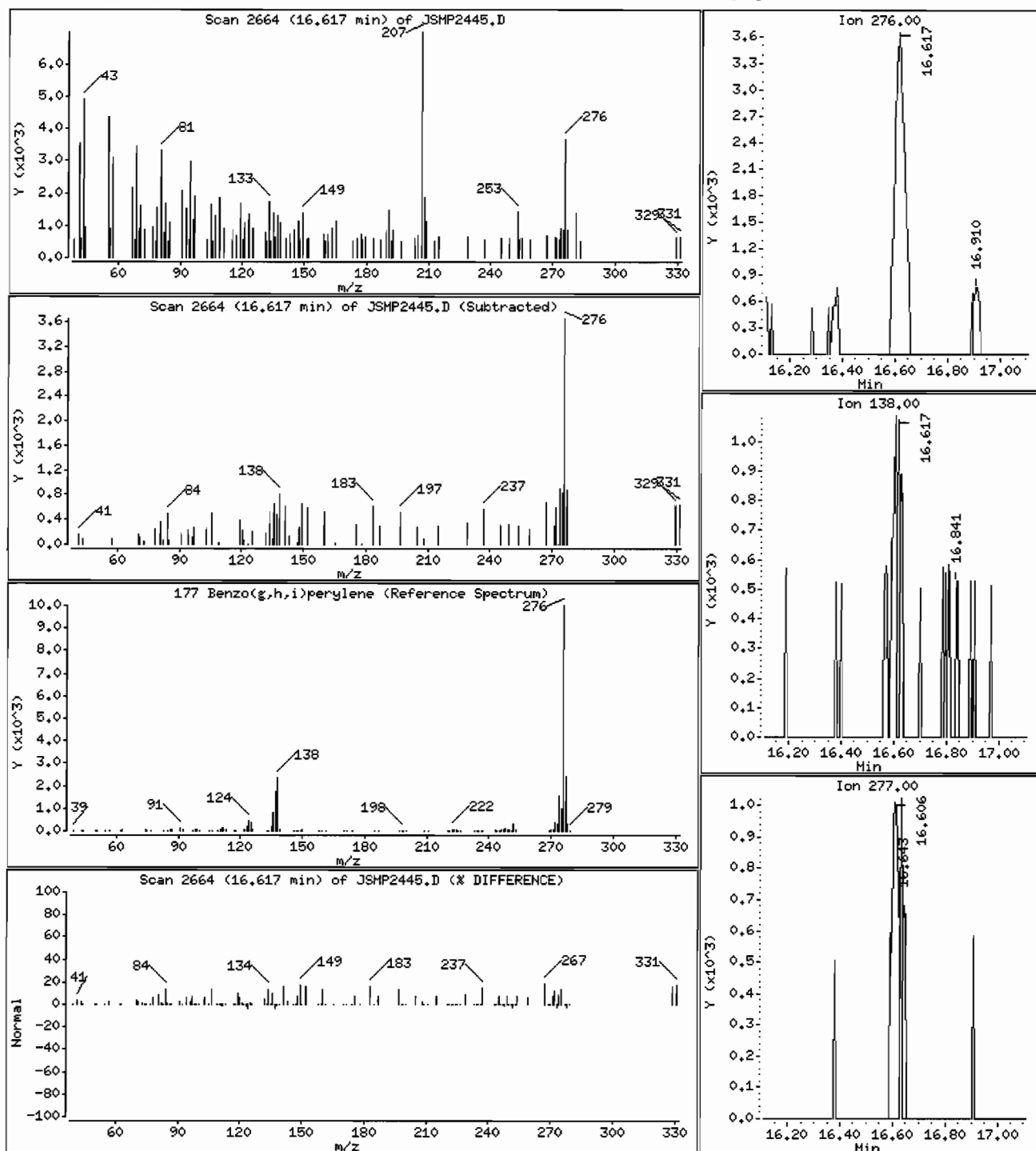
Operator: JW/MAK

Column phase:

Column diameter: 2.00

177 Benzo(g,h,i)perylene

Concentration: 49.42 ug/Kg



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2445.D

Page 1

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

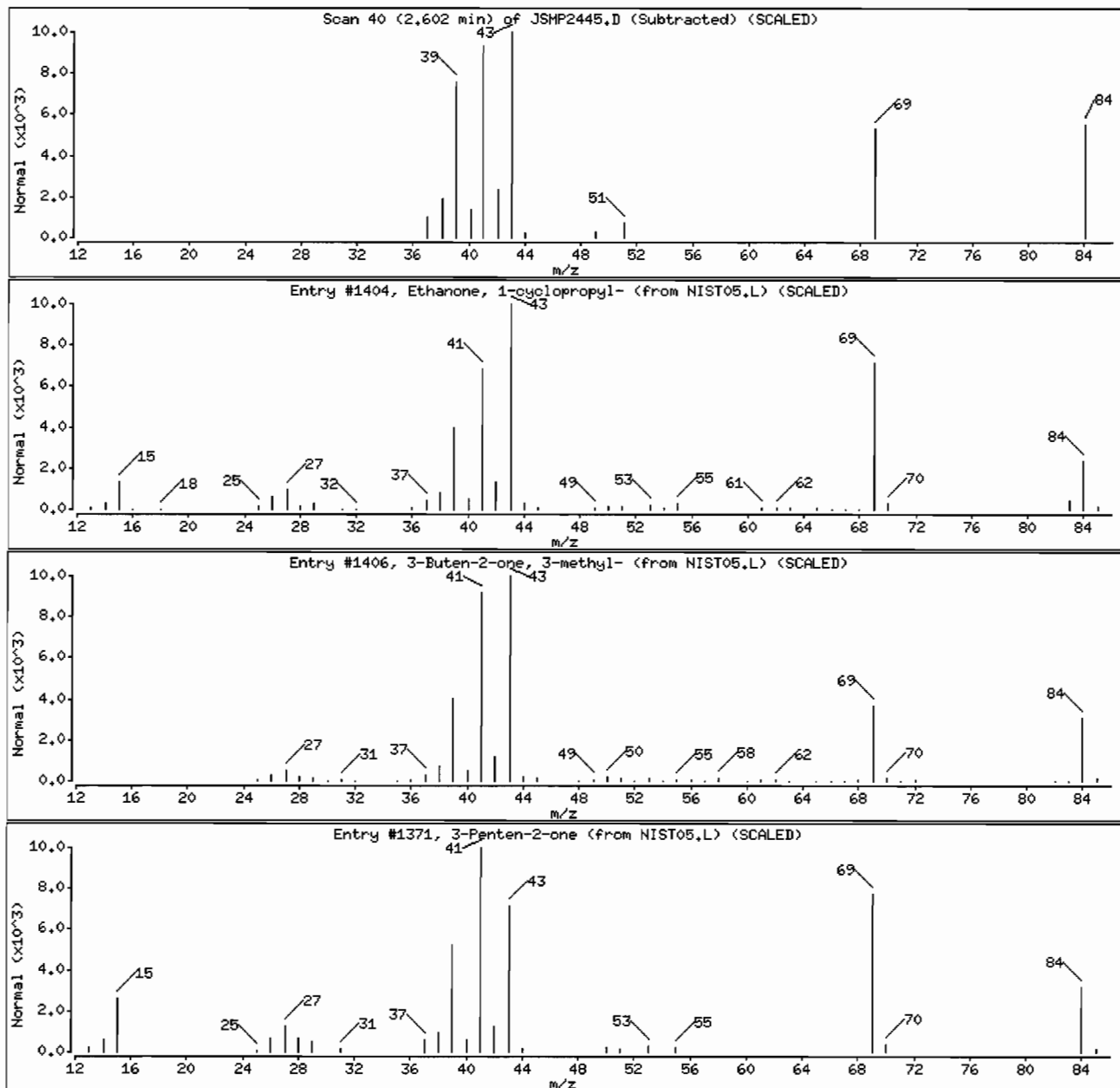
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanone, 1-cyclopropyl-	765-43-5	NIST05.L	1404	90	C5H8O	84
3-Buten-2-one, 3-methyl-	814-78-8	NIST05.L	1406	83	C5H8O	84
3-Penten-2-one	625-33-2	NIST05.L	1371	74	C5H8O	84



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2445.D

Page 2

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXR41A8

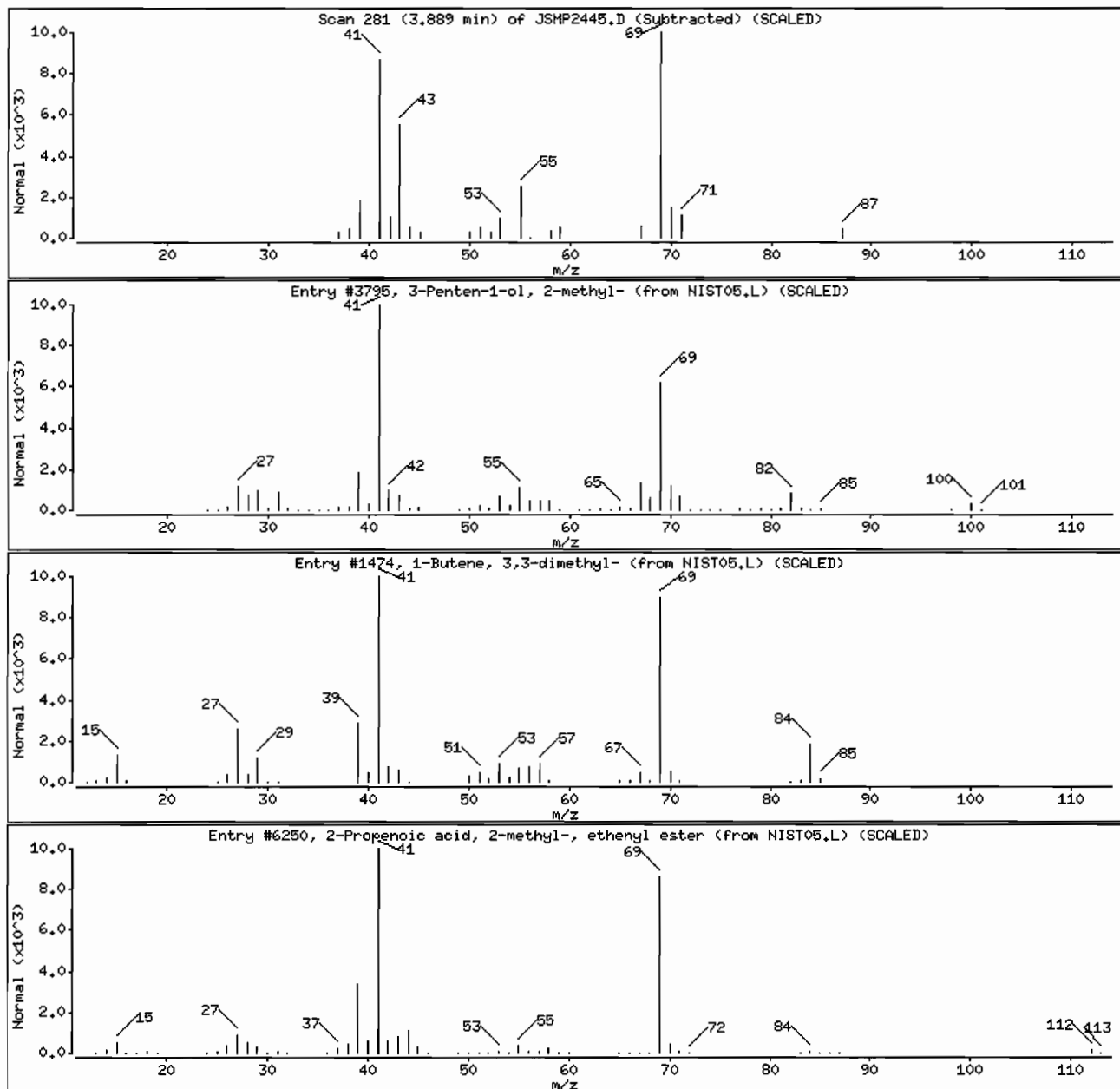
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Penten-1-ol, 2-methyl-	62238-37-3	NIST05.L	3795	40	C6H12O	100
1-Butene, 3,3-dimethyl-	558-37-2	NIST05.L	1474	39	C6H12	84
2-Propenoic acid, 2-methyl-, ethenyl est	4245-37-8	NIST05.L	6250	38	C6H8O2	112



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2445.D

Page 3

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.1

Sample Info: LXLRL41A8

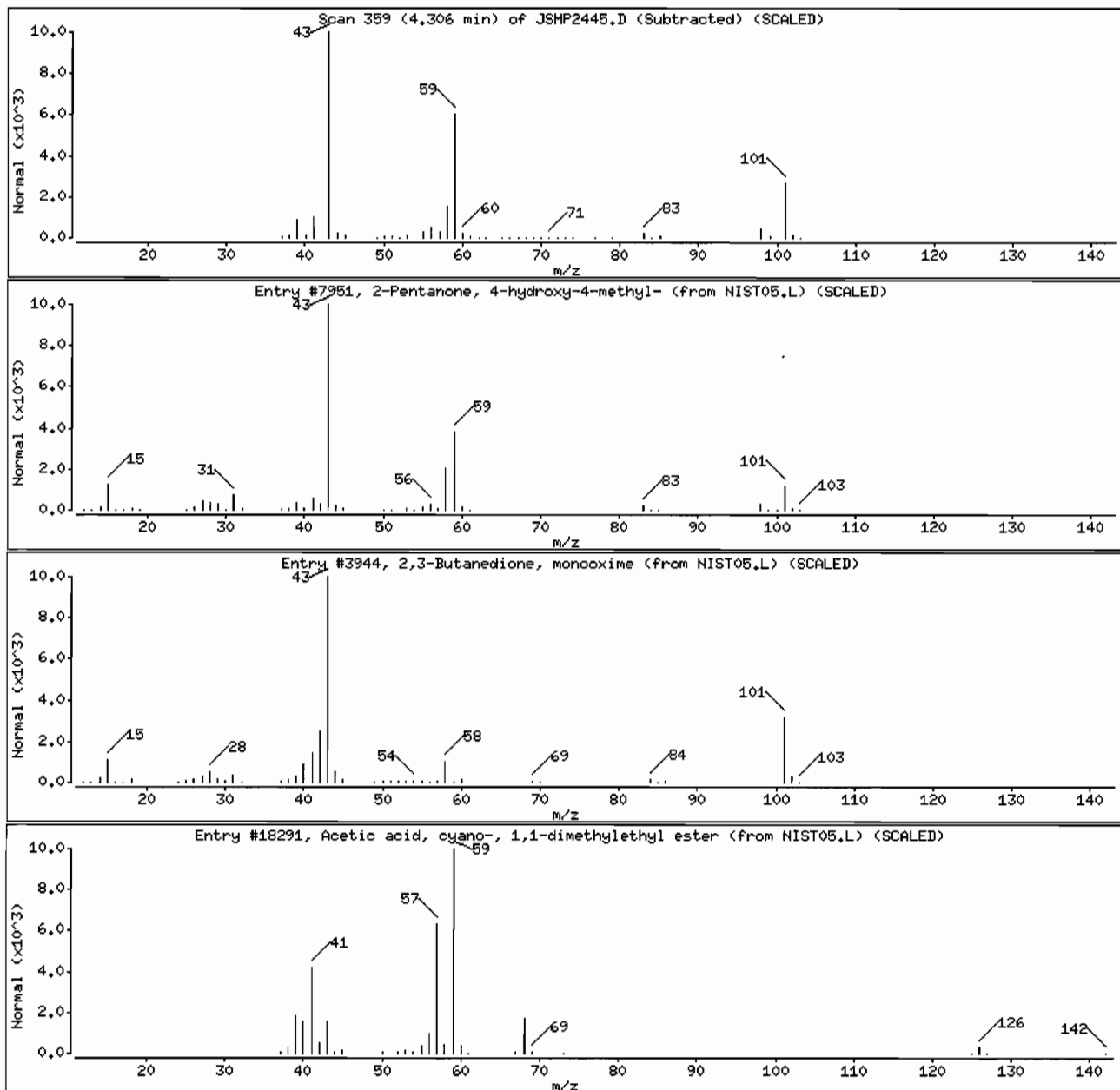
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	25	C7H11NO2	141



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A.B\JSMP2445.D

Page 4

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXLR41A8

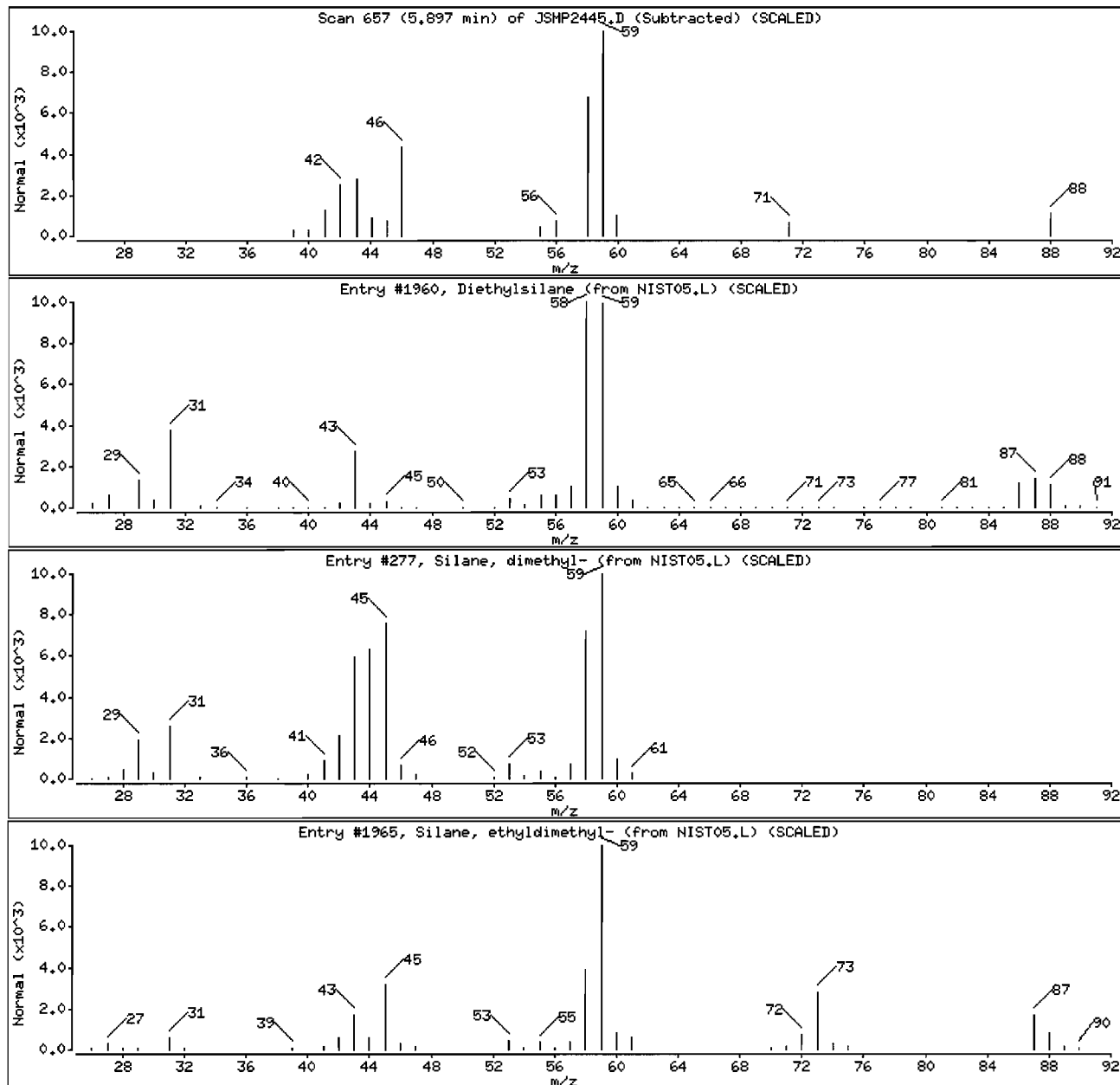
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Diethylsilane	542-91-6	NIST05.L	1960	52	C4H12Si	88
Silane, dimethyl-	1111-74-6	NIST05.L	277	50	C2H8Si	60
Silane, ethyldimethyl-	758-21-4	NIST05.L	1965	36	C4H12Si	88



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMF2445.D

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Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

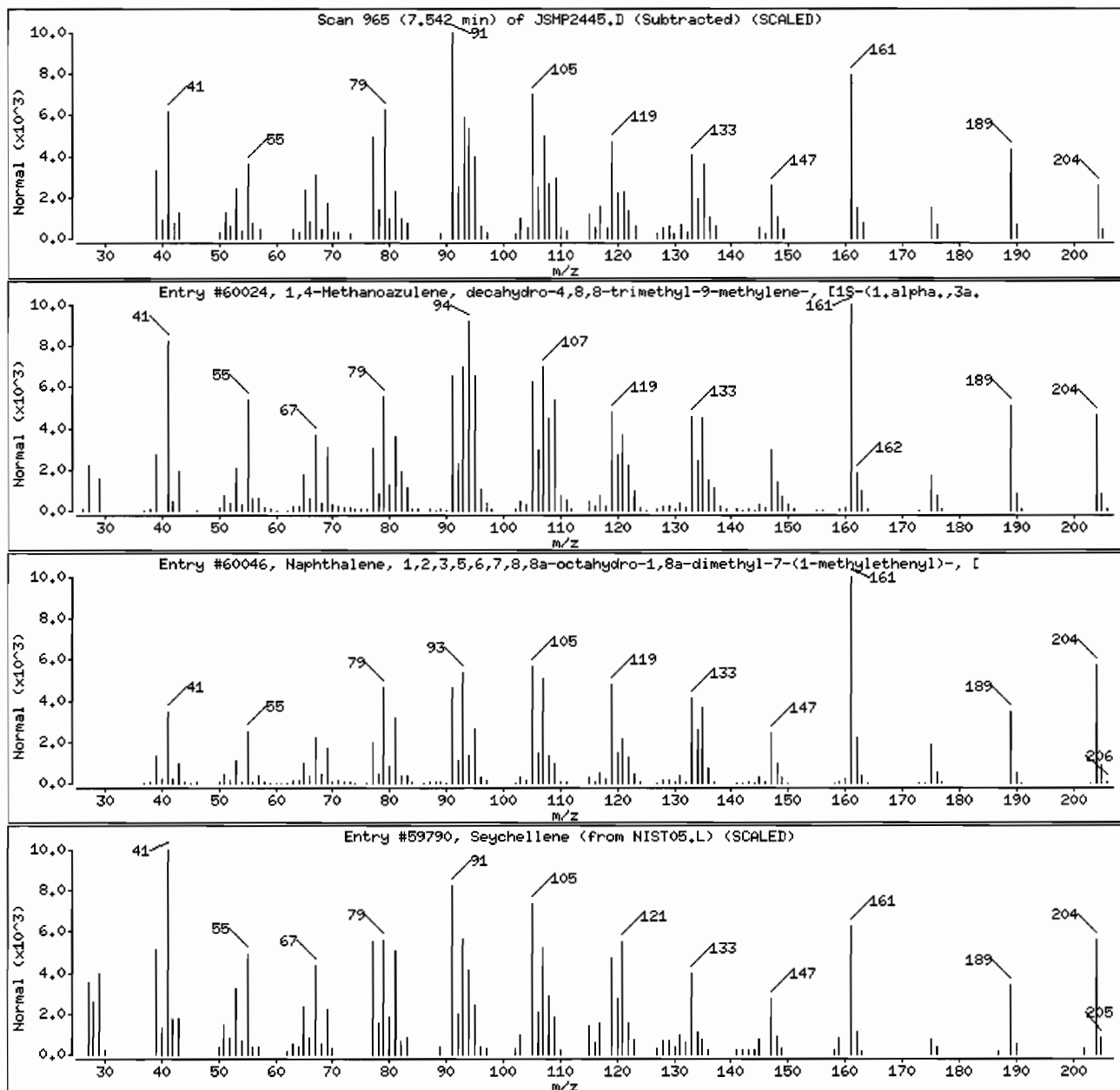
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	98	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204
Seychellene	20085-93-2	NIST05.L	59790	91	C15H24	204



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMF2445.D

Page 6

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

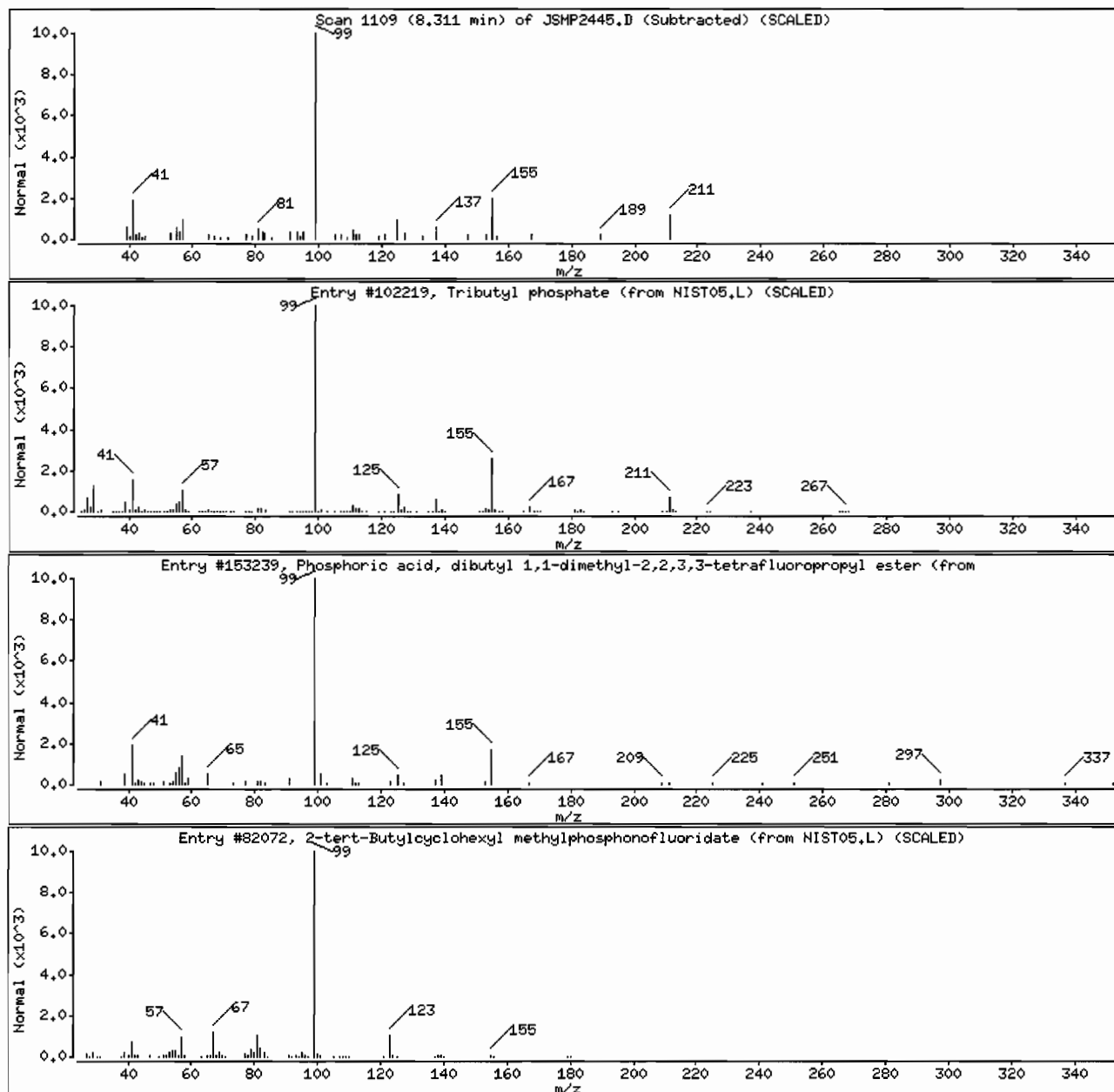
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tributyl phosphate	126-73-8	NIST05.L	102219	86	C12H27O4P	266
Phosphoric acid, dibutyl 1,1-dimethyl-2,	1000298-93-9	NIST05.L	153239	56	C13H25F4O4P	352
2-tert-Butylcyclohexyl methylphosphonofl	1000298-39-6	NIST05.L	82072	40	C11H22F02P	236





Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2445.D

Page 7

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

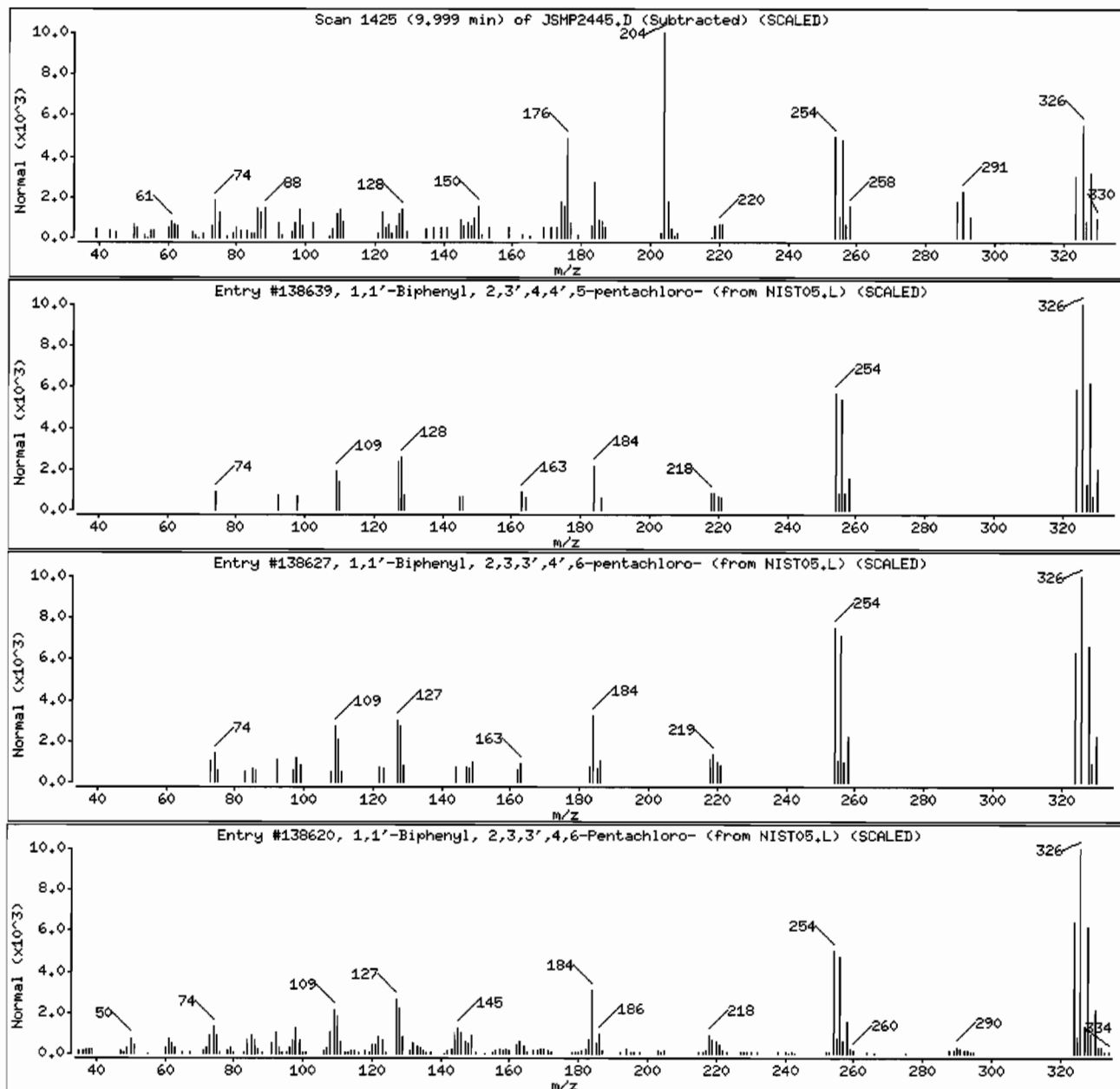
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	31508-00-6	NIST05.L	138639	95	C12H5Cl5	324
1,1'-Biphenyl, 2,3,3',4',6-pentachloro-	38380-03-9	NIST05.L	138627	95	C12H5Cl5	324
1,1'-Biphenyl, 2,3,3',4,6-Pentachloro-	74472-35-8	NIST05.L	138620	93	C12H5Cl5	324



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2445.D

Page 8

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

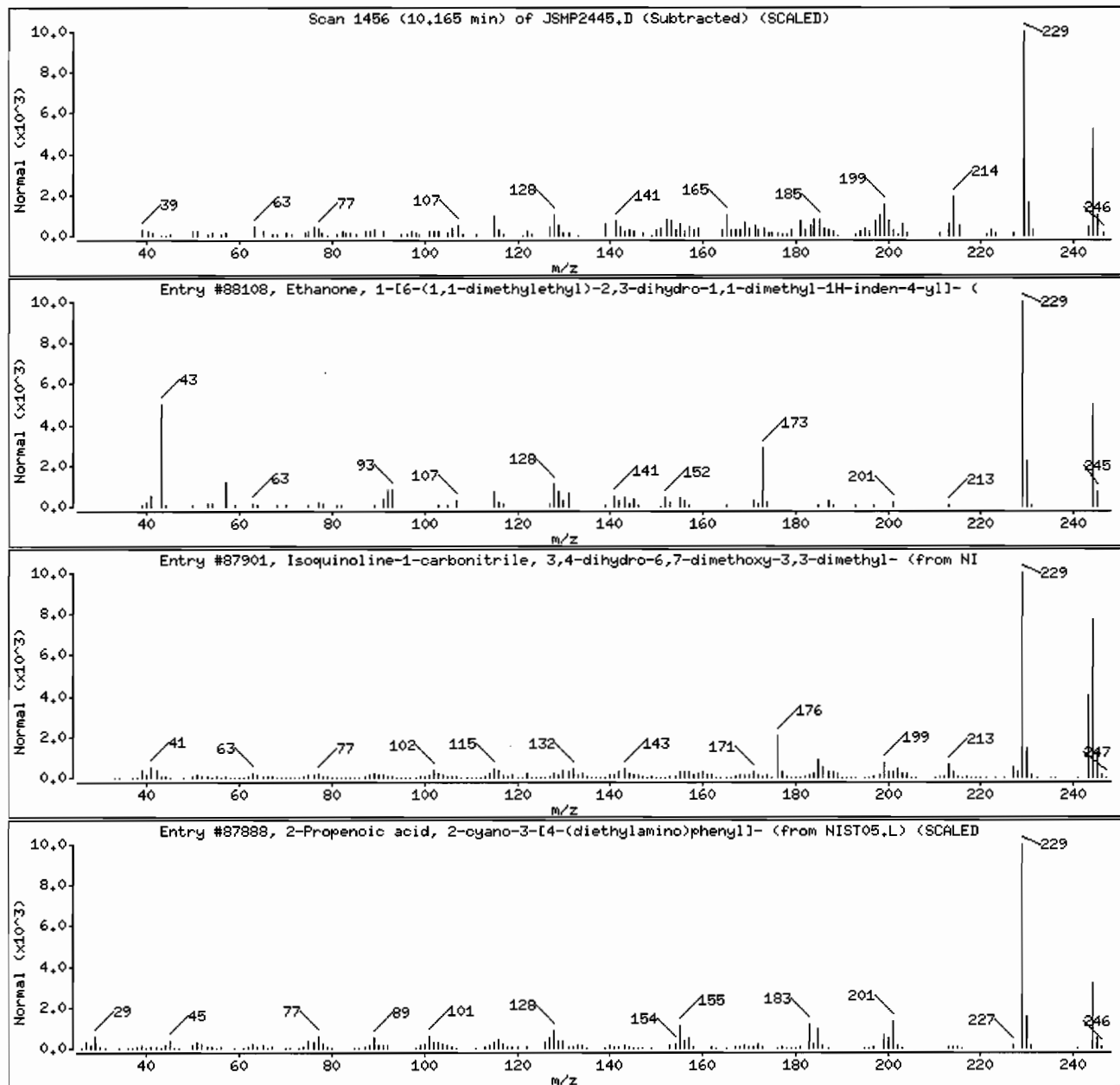
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanone, 1-[6-(1,1-dimethylethyl)-2,3-d	13171-00-1	NIST05.L	88108	89	C17H24O	244
Isoquinoline-1-carbonitrile, 3,4-dihydro	1000277-26-5	NIST05.L	87901	87	C14H16N2O2	244
2-Propenoic acid, 2-cyano-3-[4-(diethyla	1000115-72-8	NIST05.L	87888	76	C14H16N2O2	244



Data File: \\slsvr01\lbnalab\MSJ.i\J100415A.B\JSM2445.D

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Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

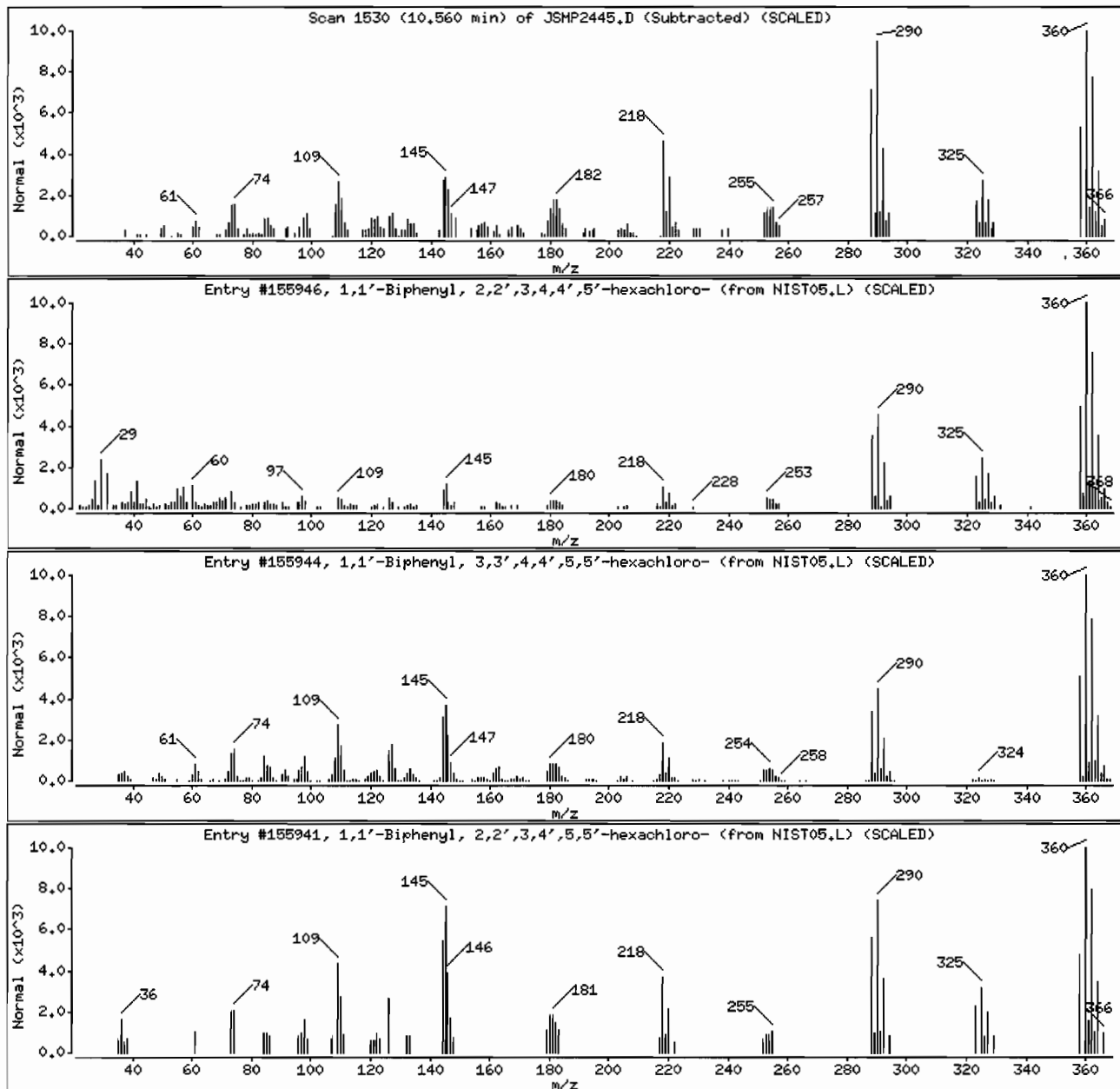
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1'-Biphenyl, 2,2',3,4,4',5'-hexachloro	35065-28-2	NIST05.L	155946	99	C12H4Cl6	358
1,1'-Biphenyl, 3,3',4,4',5,5'-hexachloro	32774-16-6	NIST05.L	155944	99	C12H4Cl6	358
1,1'-Biphenyl, 2,2',3,4',5,5'-hexachloro	51908-16-8	NIST05.L	155941	98	C12H4Cl6	358



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2445.D

Page 10

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXL41A8

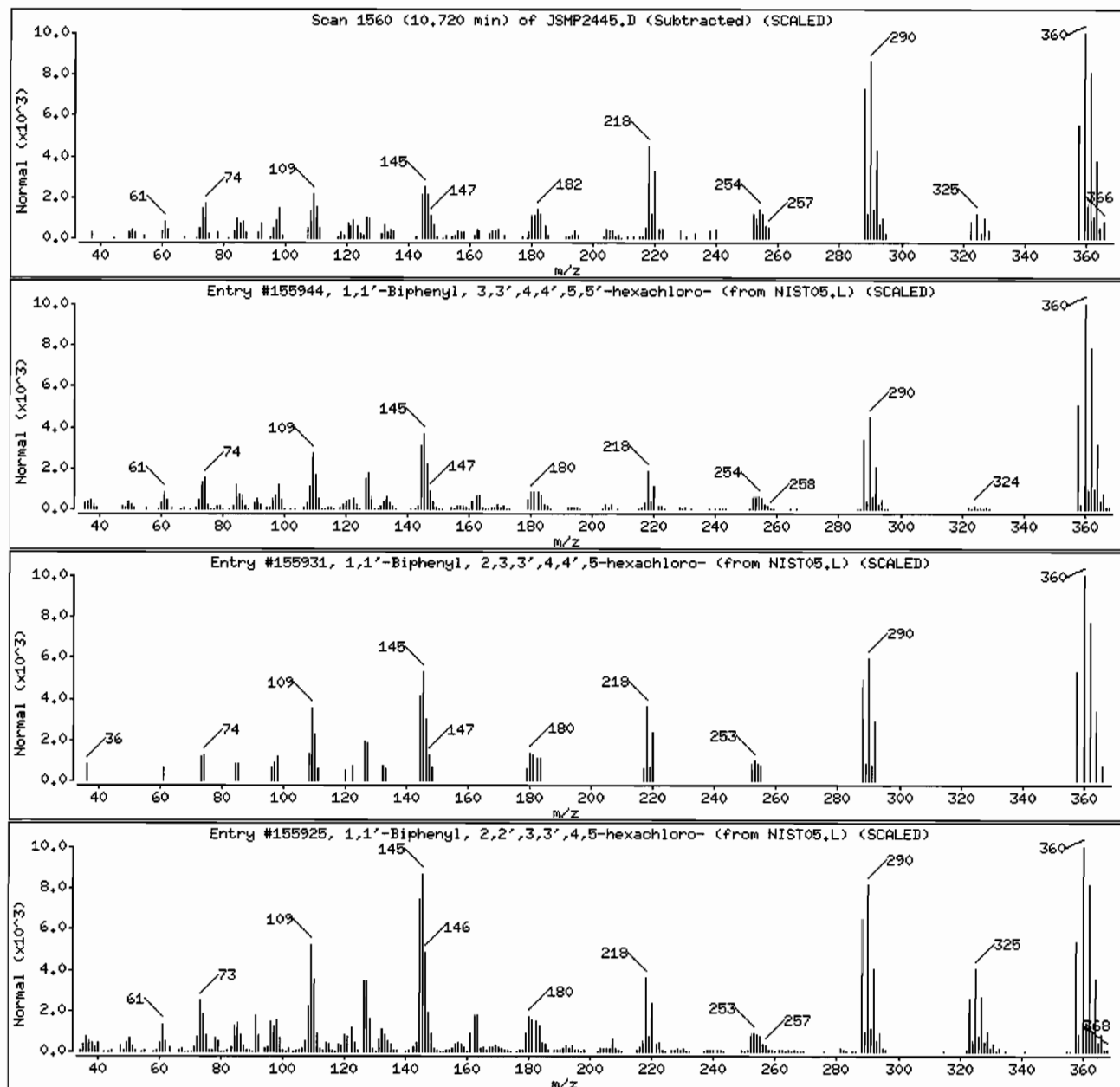
Volume Injected (uL): 1.0

Operator: JM/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1'-Biphenyl, 3,3',4,4',5,5'-hexachloro	32774-16-6	NIST05.L	155944	97	C12H4Cl6	358
1,1'-Biphenyl, 2,3,3',4,4',5-hexachloro-	38380-08-4	NIST05.L	155931	96	C12H4Cl6	358
1,1'-Biphenyl, 2,2',3,3',4,5-hexachloro-	55215-18-4	NIST05.L	155925	96	C12H4Cl6	358



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2445.D

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Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ,i

Sample Info: LXL41A8

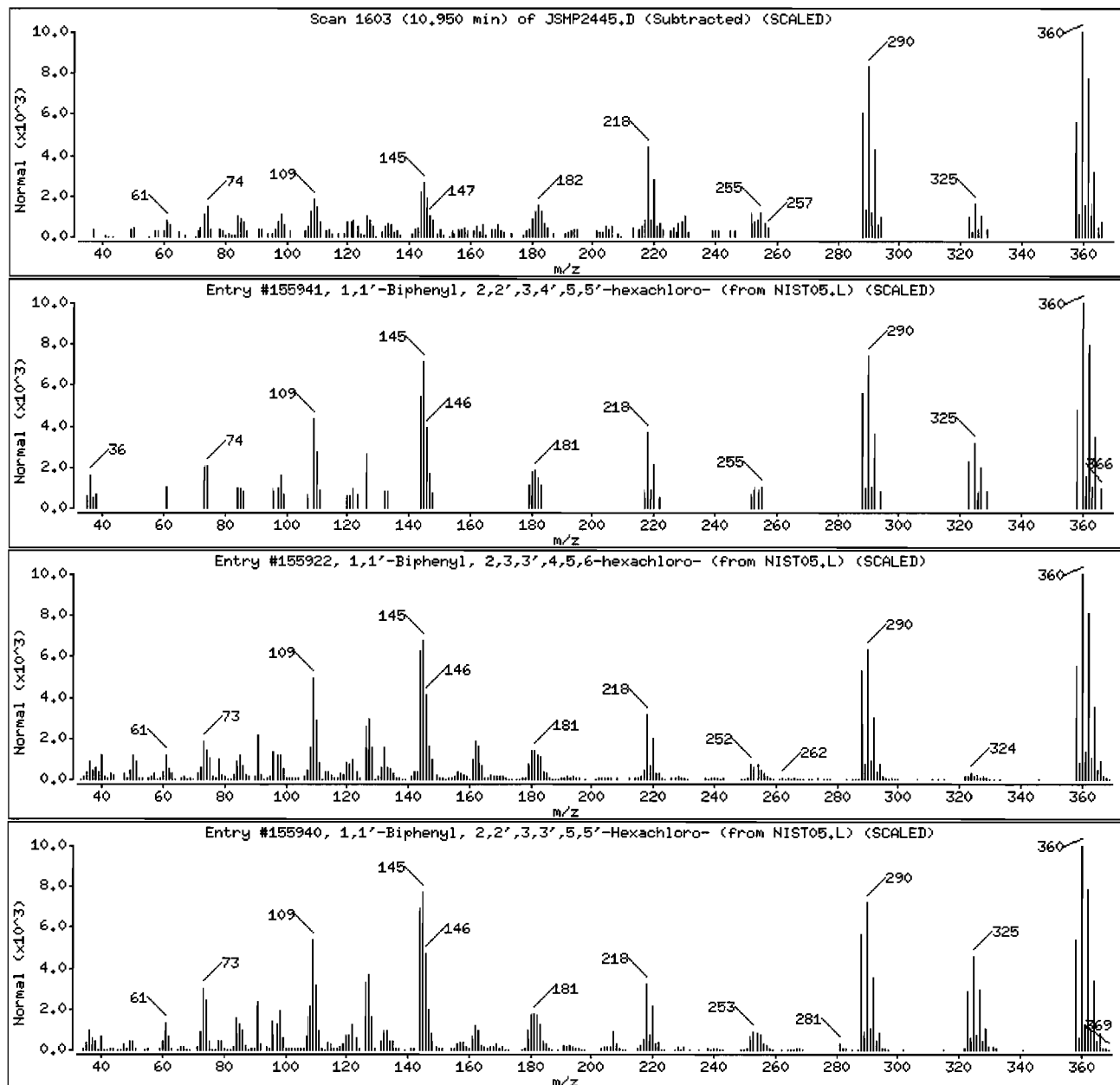
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1'-Biphenyl, 2,2',3,4',5,5'-hexachloro	51908-16-8	NIST05.L	155941	96	C12H4Cl6	358
1,1'-Biphenyl, 2,3,3',4,5,6-hexachloro-	41411-62-5	NIST05.L	155922	96	C12H4Cl6	358
1,1'-Biphenyl, 2,2',3,3',5,5'-Hexachloro	35694-04-3	NIST05.L	155940	95	C12H4Cl6	358



Data File: \\slsvr01\kna\_lab\MSJ.i\J100415A.B\JSHMP2445.D

Page 12

Date : 15-APR-2010 17:58

Client ID: WST32-10-13889

Instrument: MSJ.i

Sample Info: LXR41A8

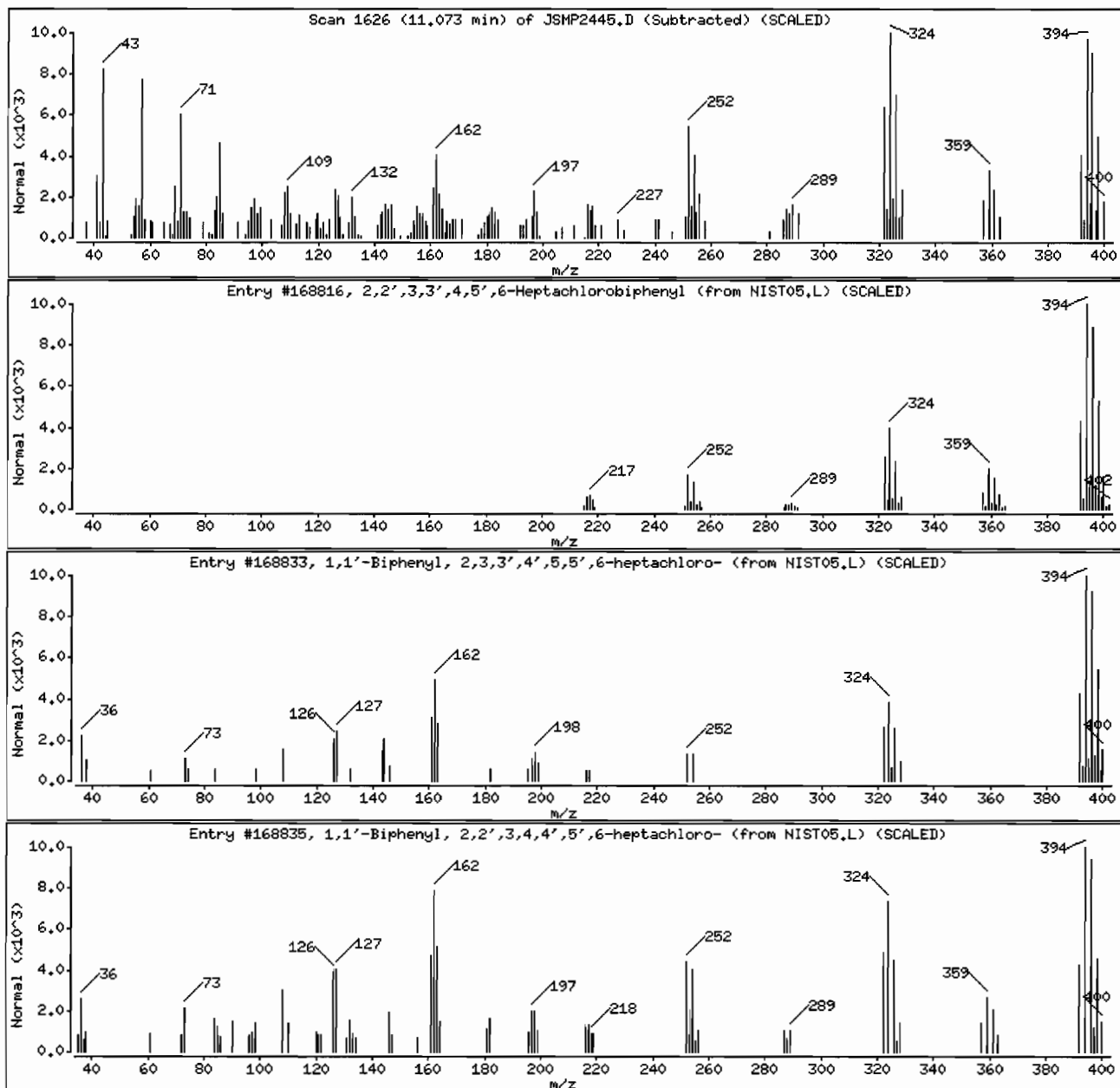
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	NIST05.L	168816	99	C12H3Cl7	392
1,1'-Biphenyl, 2,3,3',4',5,5',6-heptachl	69782-91-8	NIST05.L	168833	97	C12H3Cl7	392
1,1'-Biphenyl, 2,2',3,4,4',5',6-heptachl	52663-69-1	NIST05.L	168835	97	C12H3Cl7	392



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
 Report Date: 16-Apr-2010 11:45

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
 Lab Smp Id: LXNJ91AE Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 19:13  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNJ91AE  
 Misc Info : F0D080489-001 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 22  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/mL)	(ug/Kg)
\$ 10 2-Fluorophenol	112	4.567	4.549 (0.830)		154642	57.8947	1930
\$ 15 Phenol-d5	99	5.240	5.227 (0.952)		189374	55.4187	1847
* 22 1,4-Dichlorobenzene-d4	152	5.501	5.495 (1.000)		93139	40.0000	
\$ 36 Nitrobenzene-d5	82	5.934	5.927 (0.917)		140467	38.1004	1270
* 48 Naphthalene-d8	136	6.468	6.461 (1.000)		333781	40.0000	
\$ 69 2-Fluorobiphenyl	172	7.291	7.289 (0.929)		246425	37.1493	1238
* 82 Acenaphthene-d10	164	7.852	7.850 (1.000)		185828	40.0000	
\$ 104 2,4,6-Tribromophenol	330	8.498	8.491 (0.939)		66319	61.8640	2062
* 121 Phenanthrene-d10	188	9.048	9.041 (1.000)		370397	40.0000	
\$ 139 Terphenyl-d14	244	10.340	10.334 (0.903)		395756	48.2510	1608
* 153 Chrysene-d12	240	11.457	11.450 (1.000)		387064	40.0000	
* 166 Perylene-d12	264	13.796	13.779 (1.000)		233622	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
 Report Date: 16-Apr-2010 11:45

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
 Lab Smp Id: LXNJ91AE Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 19:13  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNJ91AE  
 Misc Info : F0D080489-001 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 22  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.502	628711	40.000
* 121 Phenanthrene-d10	9.048	924872	40.000
* 153 Chrysene-d12	11.457	1241189	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
3.825	531859	33.8380273	1128	0		0	22
Unknown Aldol Condensate					CAS #:		
4.306	3574238	227.400931	7580	0		0	22
2-Propanol, 1-butoxy-					CAS #: 5131-66-8		
5.000	857888	54.5807545	1819	90	NIST05.L	13973	22



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
Report Date: 16-Apr-2010 11:45

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RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
5.844	67286	4.28087878	142.7	0		0	22
n-Hexadecanoic acid					CAS #: 57-10-3		
9.390	175301	7.58161335	252.7	94	NIST05.L	96234	121
Unknown Organic Acid					CAS #:		
11.083	152132	4.90278338	163.4	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2448.D  
 Report Date: 16-Apr-2010 11:45

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2448.D Calibration Time: 11:13  
 Lab Smp Id: LXNJ91AE Client Smp ID: RE12-10-15444  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-001 (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	93139	-8.89
48 Naphthalene-d8	360526	180263	721052	333781	-7.42
82 Acenaphthene-d10	206190	103095	412380	185828	-9.88
121 Phenanthrene-d10	415780	207890	831560	370397	-10.92
153 Chrysene-d12	446285	223143	892570	387064	-13.27
166 Perylene-d12	410994	205497	821988	233622	-43.16

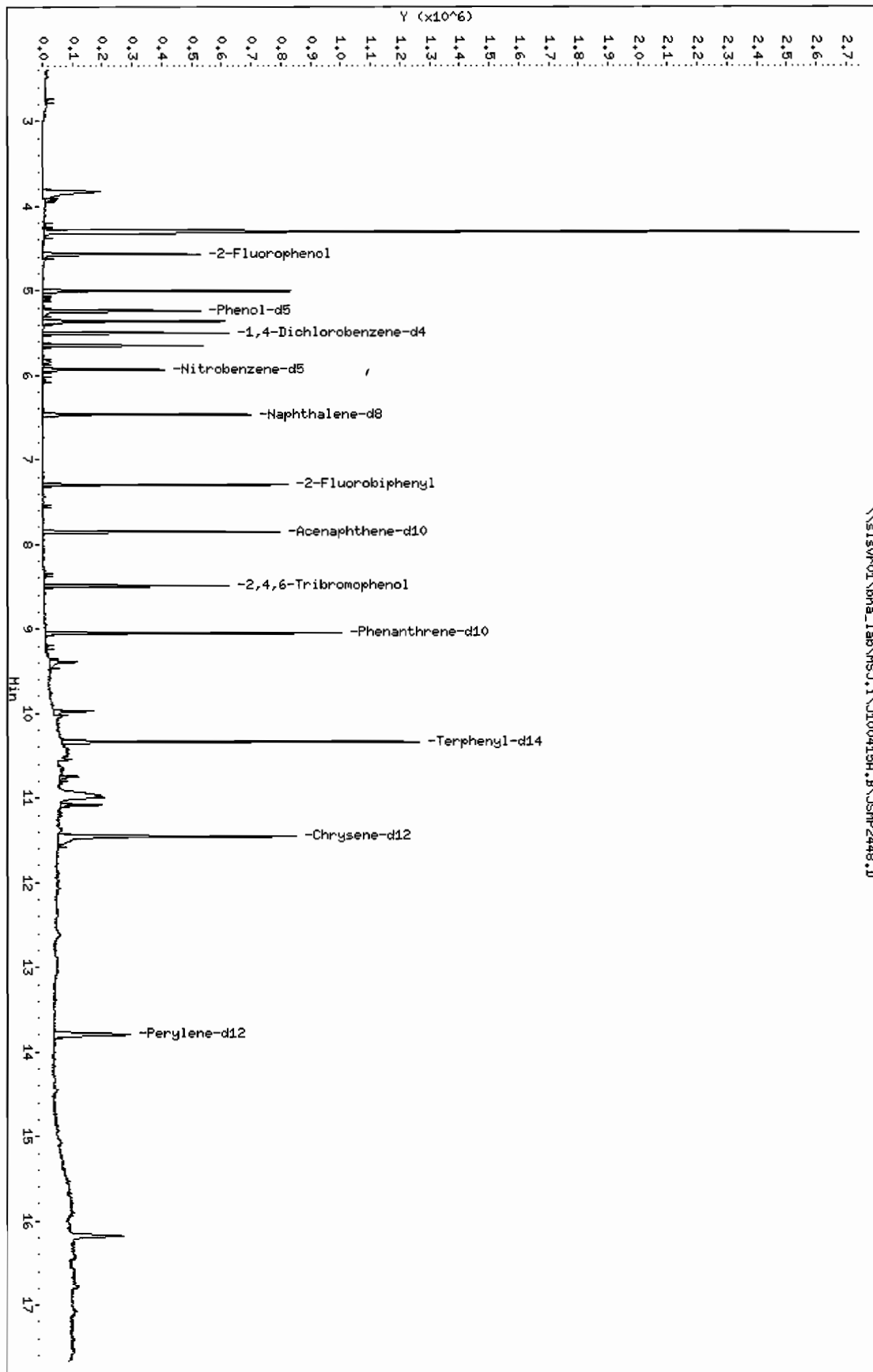
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.13
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.11
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.02
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.08
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.06
166 Perylene-d12	13.78	13.28	14.28	13.80	0.13

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: \\slsvr01\hna\_lab\MSJ.i\J100415R.B\JSHF2448.D  
Date: 15-APR-2010 19:13  
Client ID: REL2-10-15444  
Sample Info: LXN031AE  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.i  
Operator: JM/HAK  
Column diameter: 2.00

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Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSM2448.D

Page 1

Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ,i

Sample Info: LXNJ91AE

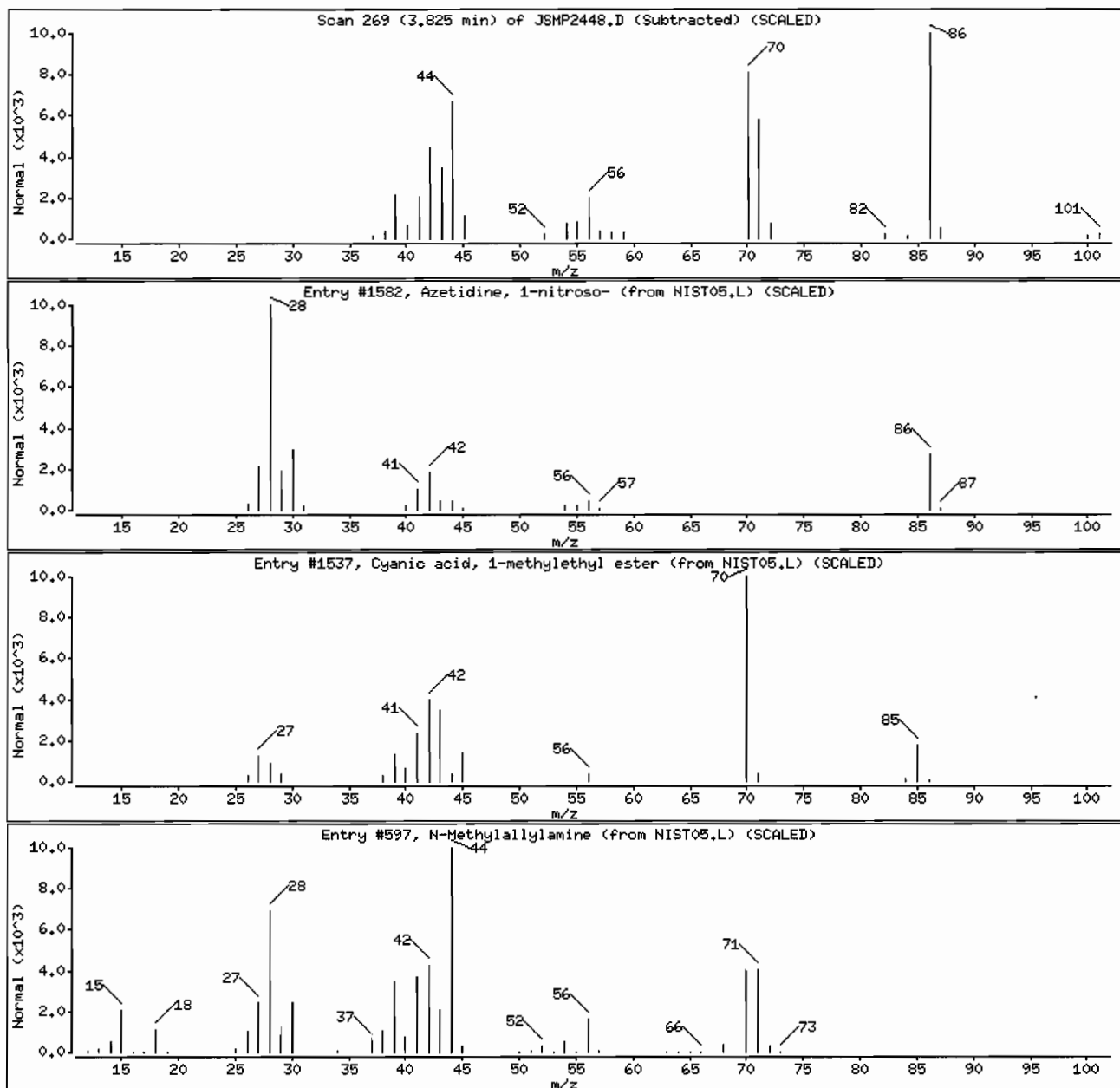
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Azetidine, 1-nitroso-	15216-10-1	NIST05.L	1582	38	C3H6N2O	86
Cyanic acid, 1-methylethyl ester	1768-37-2	NIST05.L	1537	27	C4H7NO	85
N-Methylallylamine	627-37-2	NIST05.L	597	17	C4H9N	71



Data File: \\slsvr01\bnslab\MSJ,i\J100415A,B\JSMP2448.D

Page 2

Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ,i

Sample Info: LXXNJ91AE

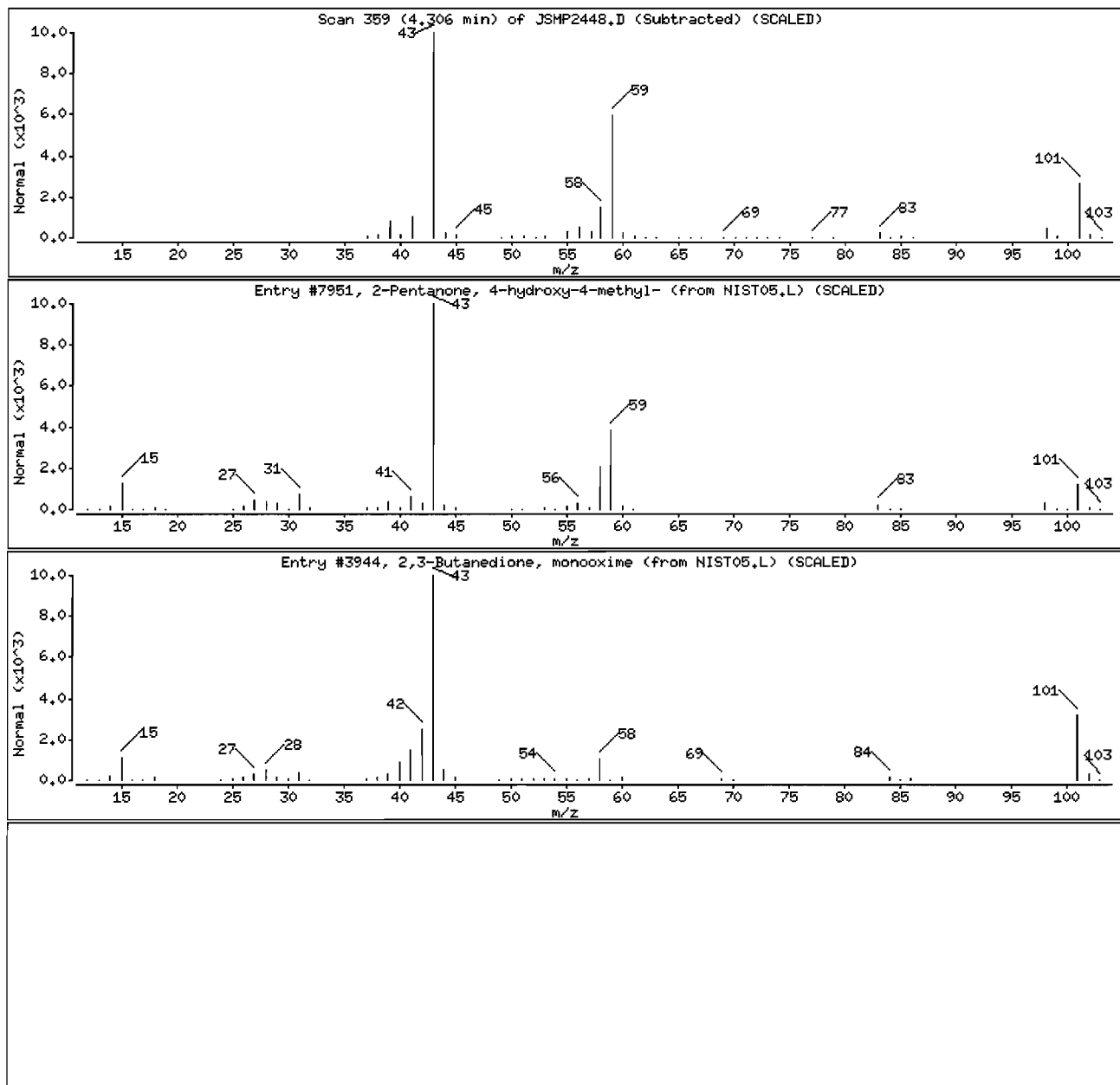
Volume Injected (uL): 1.0

Operator: JKW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMF2448.D

Page 3

Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ.i

Sample Info: LKNJ91AE

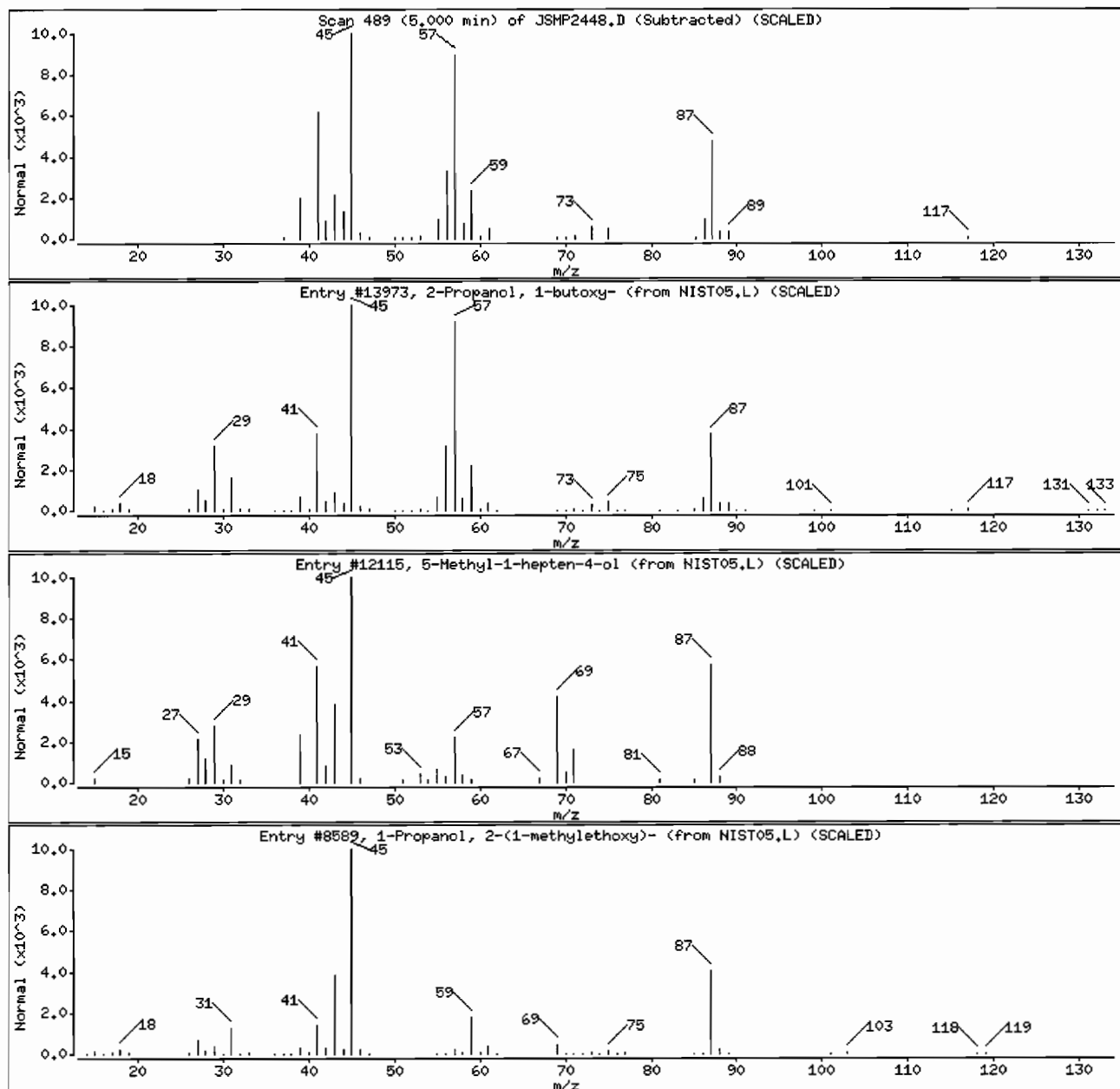
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propanol, 1-butoxy-	5131-66-8	NIST05.L	13973	90	C7H16O2	132
5-Methyl-1-hepten-4-ol	99328-46-8	NIST05.L	12115	47	C8H16O	128
1-Propanol, 2-(1-methylethoxy)-	3944-37-4	NIST05.L	8589	42	C6H14O2	118



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSM2448.D

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Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ,i

Sample Info: LKNJ91AE

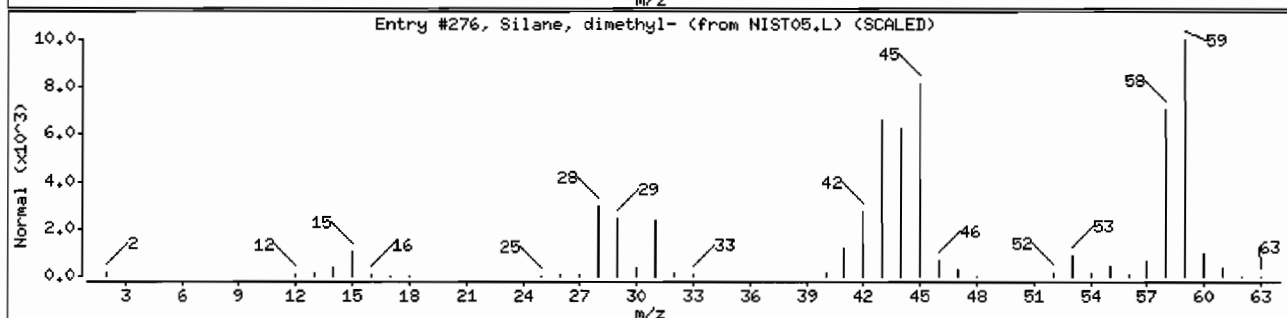
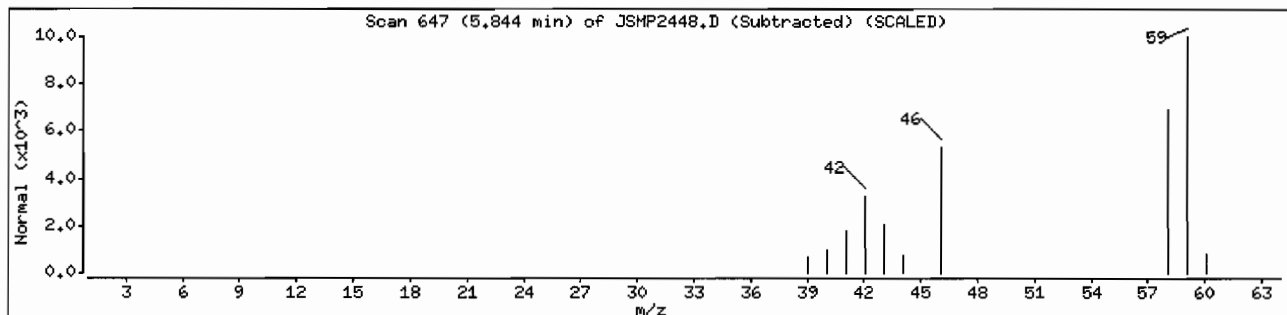
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silane, dimethyl-	1111-74-6	NIST05.L	276	59	C <sub>2</sub> H <sub>8</sub> Si	60



Data File: \\slsivr01\lba\_lab\MSJ,i\J100415A,B\JSMF2448.D

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Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ,i

Sample Info: LKNJ91AE

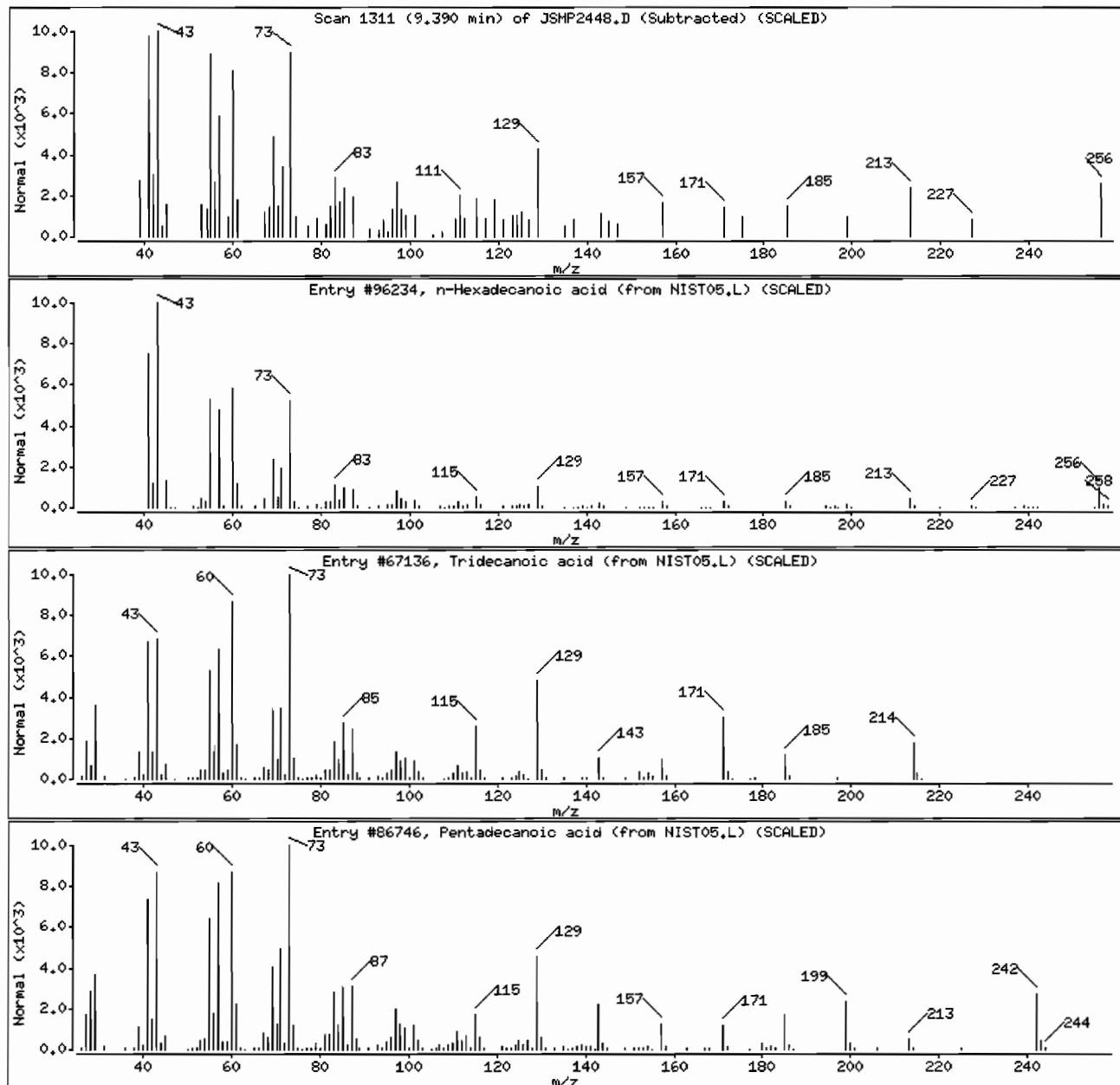
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	94	C16H32O2	256
Tridecanoic acid	638-53-9	NIST05.L	67136	62	C13H26O2	214
Pentadecanoic acid	1002-84-2	NIST05.L	86746	53	C15H30O2	242





Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2448.D

Page 6

Date : 15-APR-2010 19:13

Client ID: RE12-10-15444

Instrument: MSJ,i

Sample Info: LXNJ91AE

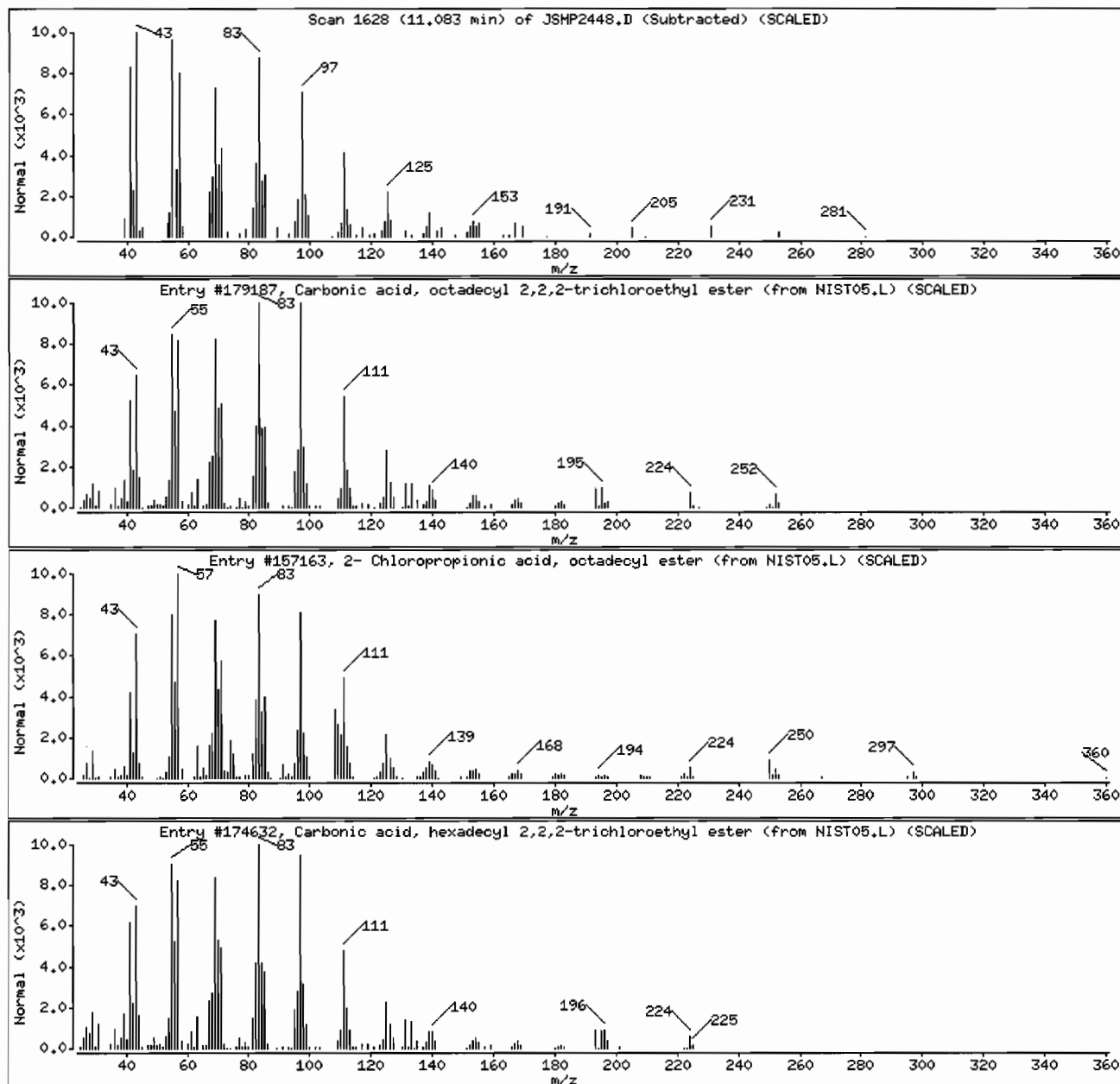
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
Carbonic acid, octadecyl 2,2,2-trichloro	1000314-56-3	NIST05.L	179187	94	C21H39Cl3O3	444
2- Chloropropionic acid, octadecyl ester	88104-31-8	NIST05.L	157163	94	C21H41ClO2	360
Carbonic acid, hexadecyl 2,2,2-trichloro	1000314-56-2	NIST05.L	174632	93	C19H35Cl3O3	416



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
 Report Date: 16-Apr-2010 11:47

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
 Lab Smp Id: LXNKC1AE Client Smp ID: RE12-10-15443  
 Inj Date : 15-APR-2010 19:38  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKC1AE  
 Misc Info : F0D080489-002 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
\$ 10 2-Fluorophenol	112	4.567	4.549	(0.829)	155759	58.8321	1961
\$ 15 Phenol-d5	99	5.240	5.227	(0.952)	186550	55.0784	1836
* 22 1,4-Dichlorobenzene-d4	152	5.507	5.495	(1.000)	92317	40.0000	
\$ 36 Nitrobenzene-d5	82	5.934	5.927	(0.917)	136797	36.0995	1203
* 48 Naphthalene-d8	136	6.468	6.461	(1.000)	343078	40.0000	
\$ 69 2-Fluorobiphenyl	172	7.296	7.289	(0.929)	240499	34.8364	1161
* 82 Acenaphthene-d10	164	7.857	7.850	(1.000)	193400	40.0000	
\$ 104 2,4,6-Tribromophenol	330	8.498	8.491	(0.939)	64437	59.2245	1974
* 121 Phenanthrene-d10	188	9.054	9.041	(1.000)	375925	40.0000	
\$ 139 Terphenyl-d14	244	10.341	10.334	(0.902)	371086	44.0938	1470
* 153 Chrysene-d12	240	11.462	11.450	(1.000)	397154	40.0000	
* 166 Perylene-d12	264	13.807	13.779	(1.000)	233029	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
 Report Date: 16-Apr-2010 11:47

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
 Lab Smp Id: LXNKC1AE Client Smp ID: RE12-10-15443  
 Inj Date : 15-APR-2010 19:38  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKC1AE  
 Misc Info : F0D080489-002 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 22 1,4-Dichlorobenzene-d4	5.508	619898	40.000
* 82 Acenaphthene-d10	7.858	848594	40.000
* 121 Phenanthrene-d10	9.054	934742	40.000
* 153 Chrysene-d12	11.463	1072076	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Unknown					CAS #:		
3.830	532015	34.3291462	1144	0		0	22
Unknown Aldol Condensate					CAS #:		
4.306	3315889	213.963230	7132	0		0	22
Unknown					CAS #:		
7.543	273125	12.8742484	429.1	0		0	82



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
Report Date: 16-Apr-2010 11:47

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RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIE ENTRY	
====	====	=====	=====	====	=====	=====	=====
Cedrol					CAS #: 77-53-2		
8.365	264678	12.4760743	415.9	96	NIST05.L	72887	82
n-Hexadecanoic acid					CAS #: 57-10-3		
9.396	125403	5.36629098	178.9	96	NIST05.L	96234	121
Unknown					CAS #:		
9.978	106610	4.56210493	152.1	0		0	121
Unknown					CAS #:		
11.089	221736	8.27315358	275.8	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2449.D  
 Report Date: 16-Apr-2010 11:47

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2449.D Calibration Time: 11:13  
 Lab Smp Id: LXNKC1AE Client Smp ID: RE12-10-15443  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-002 (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	92317	-9.69
48 Naphthalene-d8	360526	180263	721052	343078	-4.84
82 Acenaphthene-d10	206190	103095	412380	193400	-6.20
121 Phenanthrene-d10	415780	207890	831560	375925	-9.59
153 Chrysene-d12	446285	223143	892570	397154	-11.01
166 Perylene-d12	410994	205497	821988	233029	-43.30

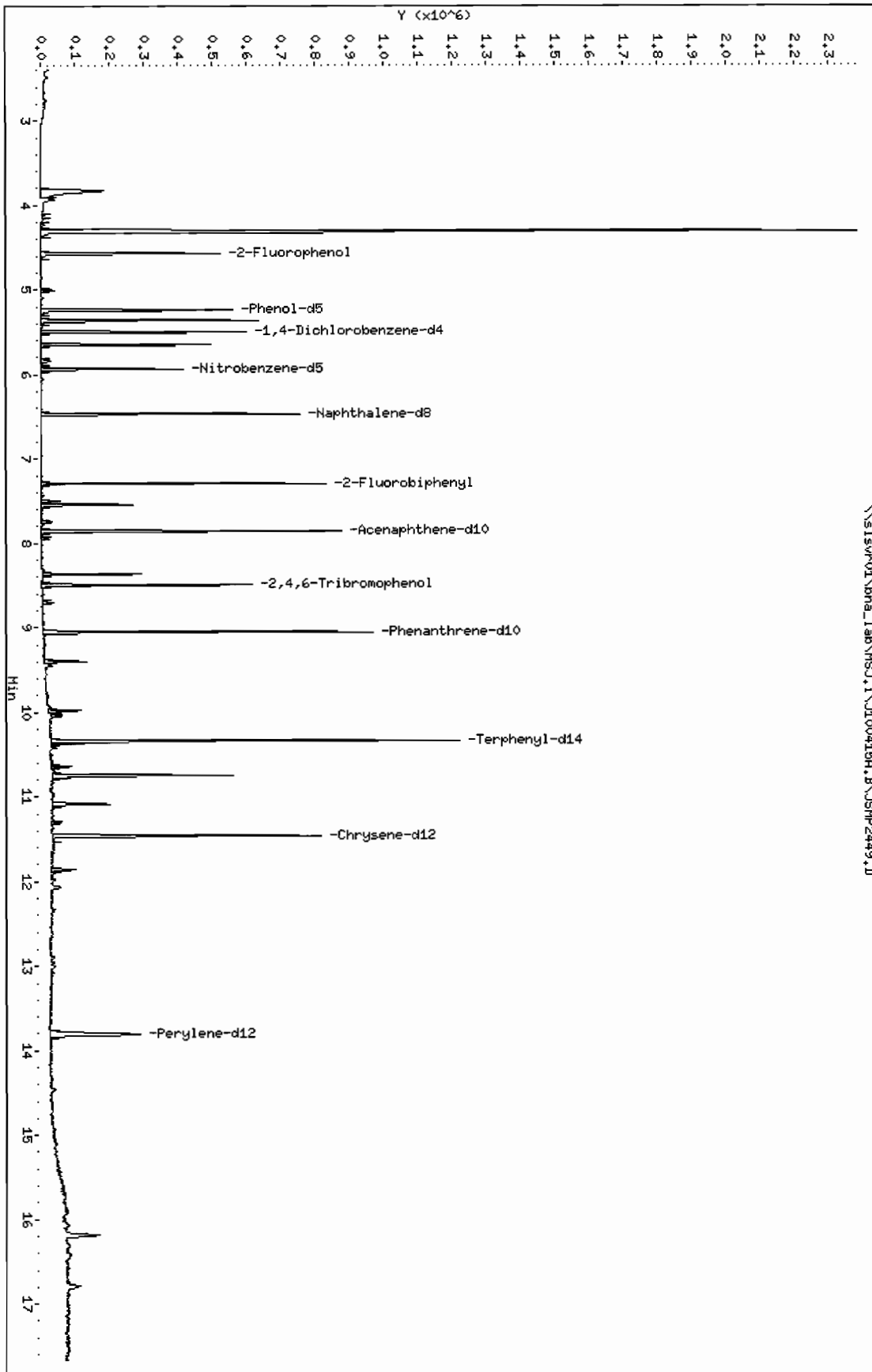
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.51	0.23
48 Naphthalene-d8	6.46	5.96	6.96	6.47	0.11
82 Acenaphthene-d10	7.85	7.35	8.35	7.86	0.09
121 Phenanthrene-d10	9.04	8.54	9.54	9.05	0.14
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.11
166 Perylene-d12	13.78	13.28	14.28	13.81	0.21

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: \\slsvr01\hna\_lab\HSJ.1\J100415R.B\JSHF2449.D  
Date: 15-APR-2010 19:38  
Client ID: RE12-10-15443  
Sample Info: LYNKCLAE  
Volume Injected (uL): 1.0  
Column phase:

Instrument: HSJ.i  
Operator: JM/HAK  
Column diameter: 2.00

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Data File: \\slsvr01\lona\_lab\MSJ,i\J100415A,B\JSMP2449.D

Page 1

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ.i

Sample Info: LXNKC1AE

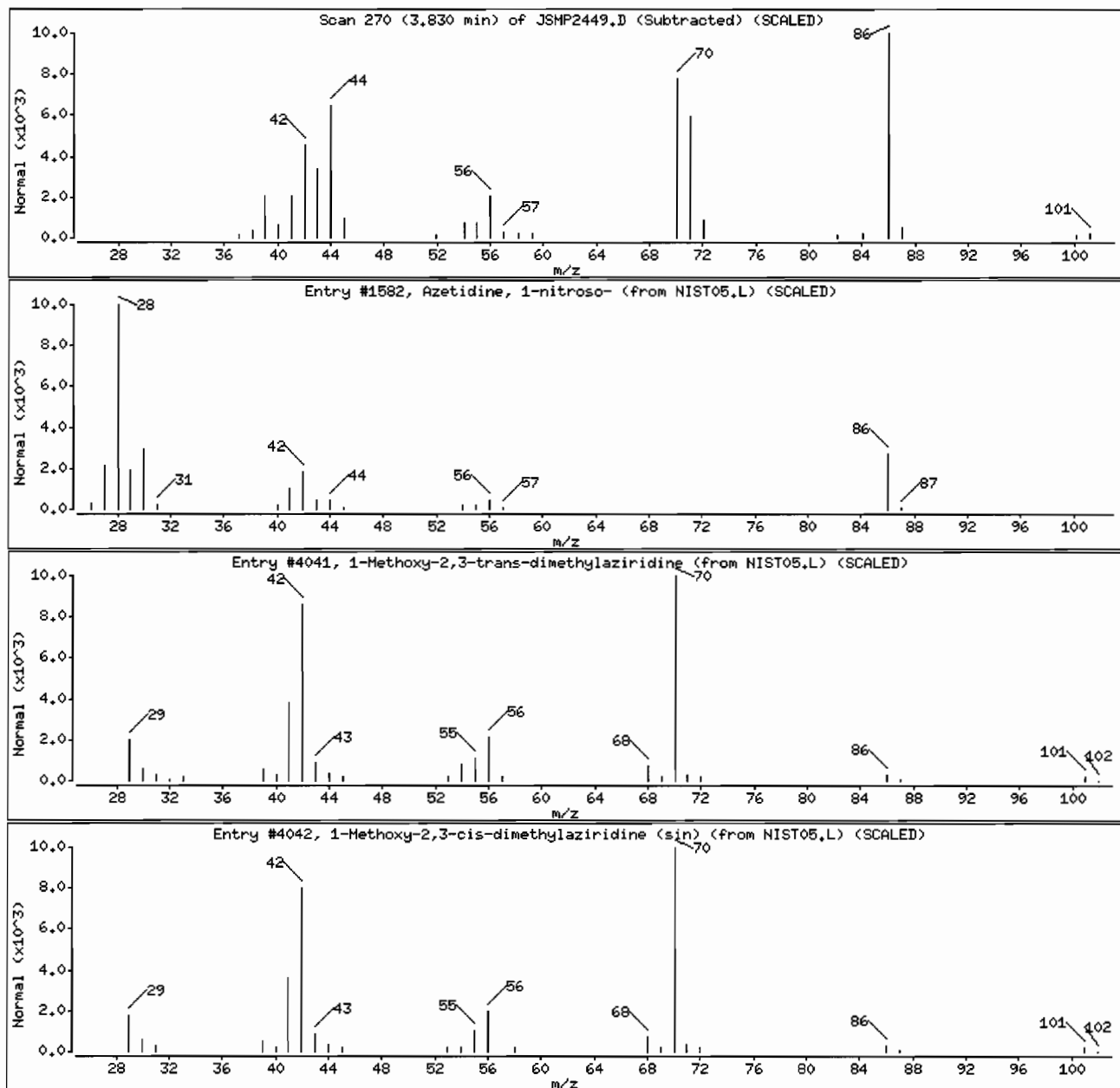
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Azetidine, 1-nitroso-	15216-10-1	NIST05.L	1582	38	C3H6N2O	86
1-Methoxy-2,3-trans-dimethylaziridine	1000283-23-4	NIST05.L	4041	25	C5H11NO	101
1-Methoxy-2,3-cis-dimethylaziridine (sin	61593-25-7	NIST05.L	4042	25	C5H11NO	101





Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2449.D

Page 2

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ.i

Sample Info: LXNKC1AE

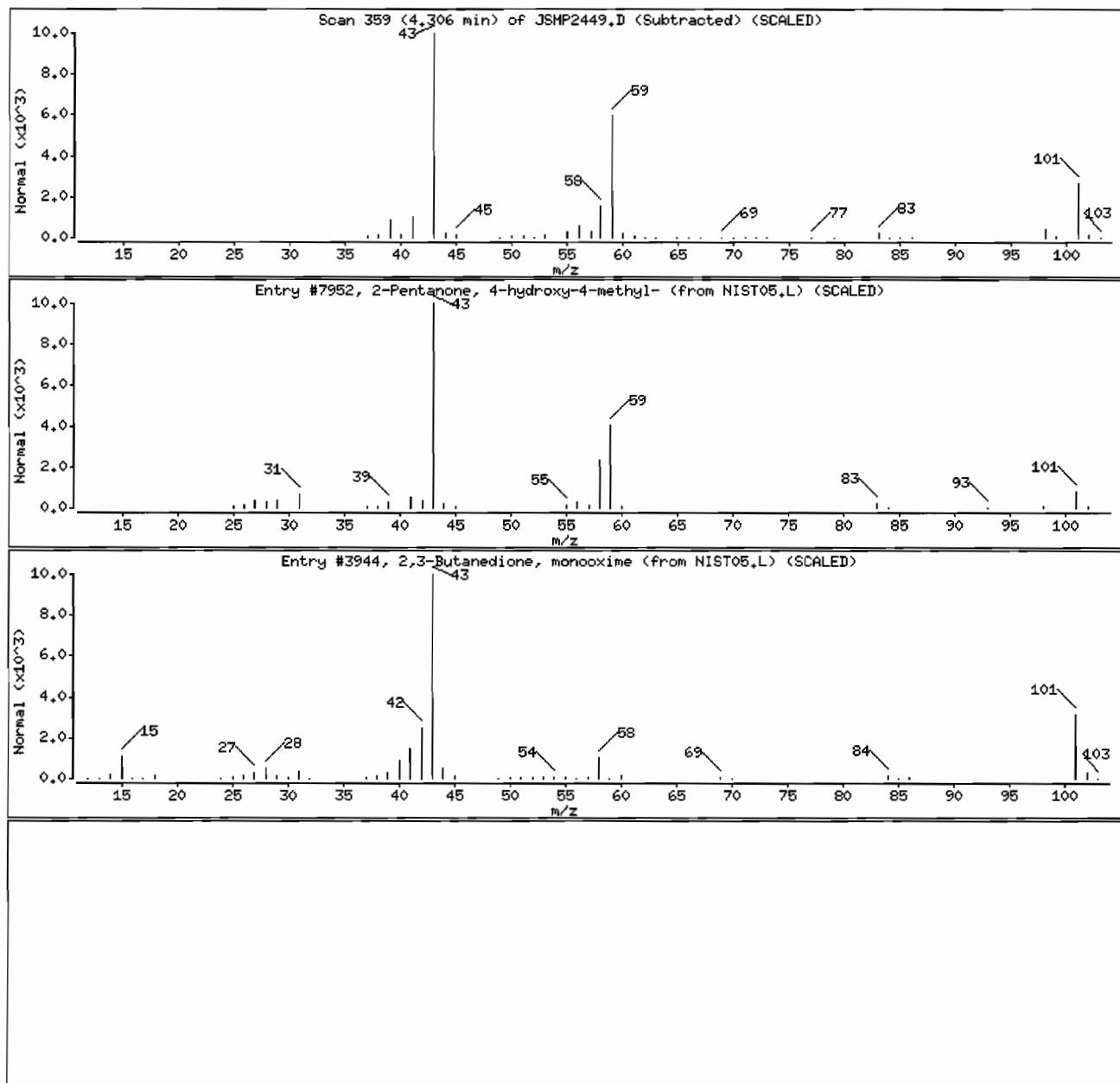
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	50	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSM2449.D

Page 3

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ,i

Sample Info: LXNKC1AE

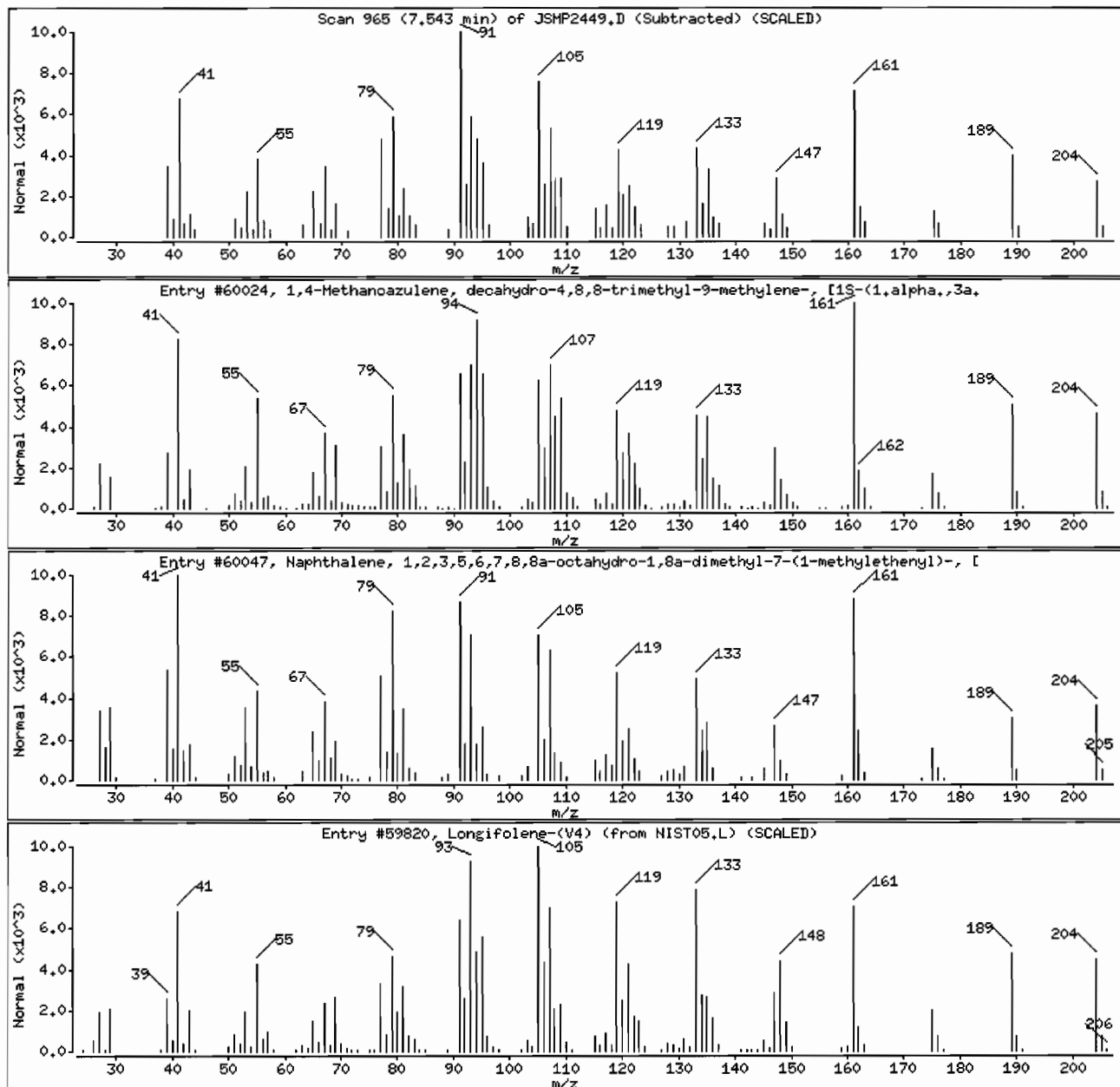
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	97	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60047	97	C15H24	204
Longifolene-(V4)	61262-67-7	NIST05.L	59820	93	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2449.D

Page 4

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ,i

Sample Info: LXNKC1AE

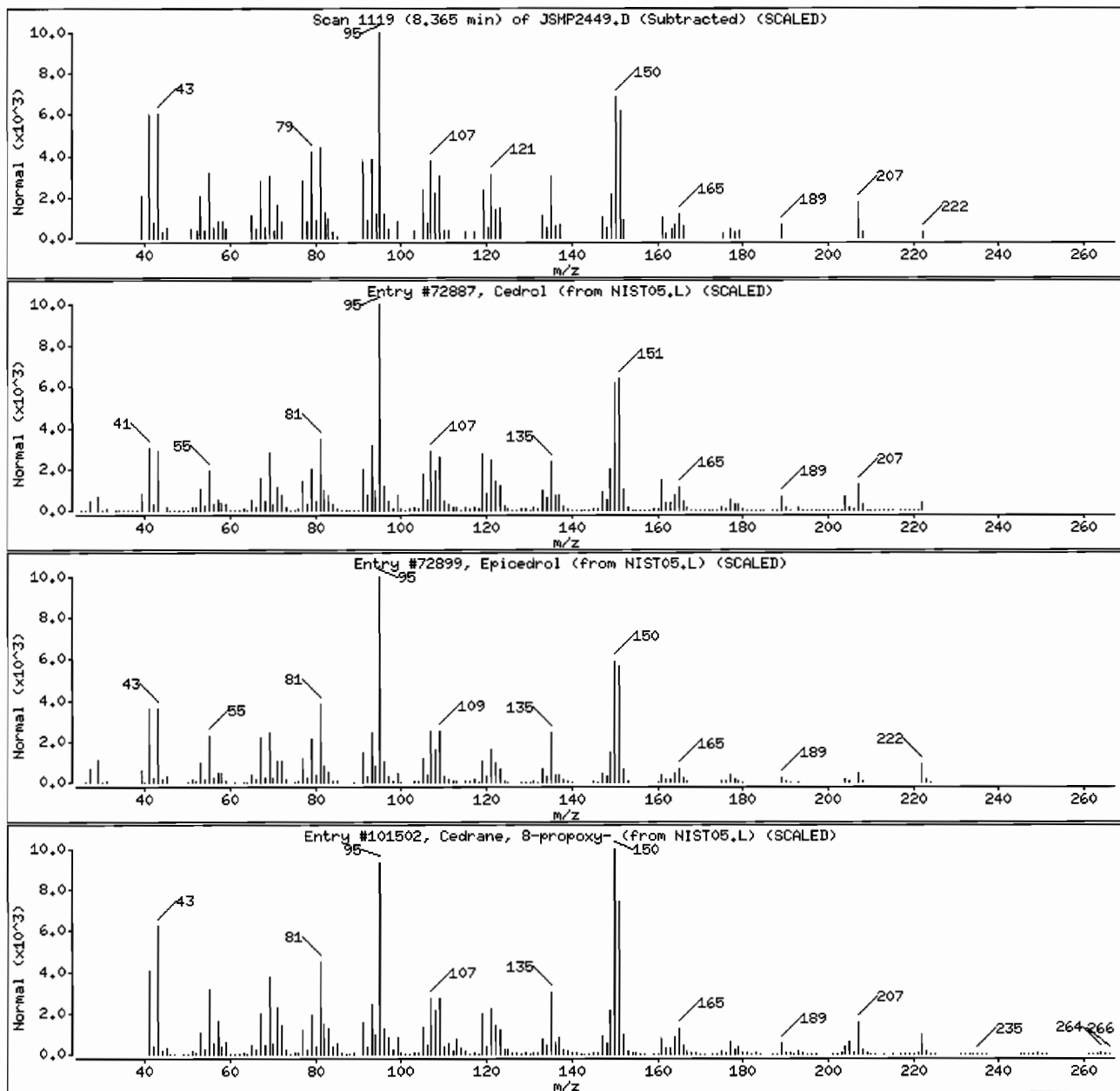
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cedrol	77-53-2	NIST05.L	72887	96	C15H26O	222
Epicedrol	1000156-22-8	NIST05.L	72899	86	C15H26O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	81	C18H32O	264



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2449.D

Page 5

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ,i

Sample Info: LXNKC1AE

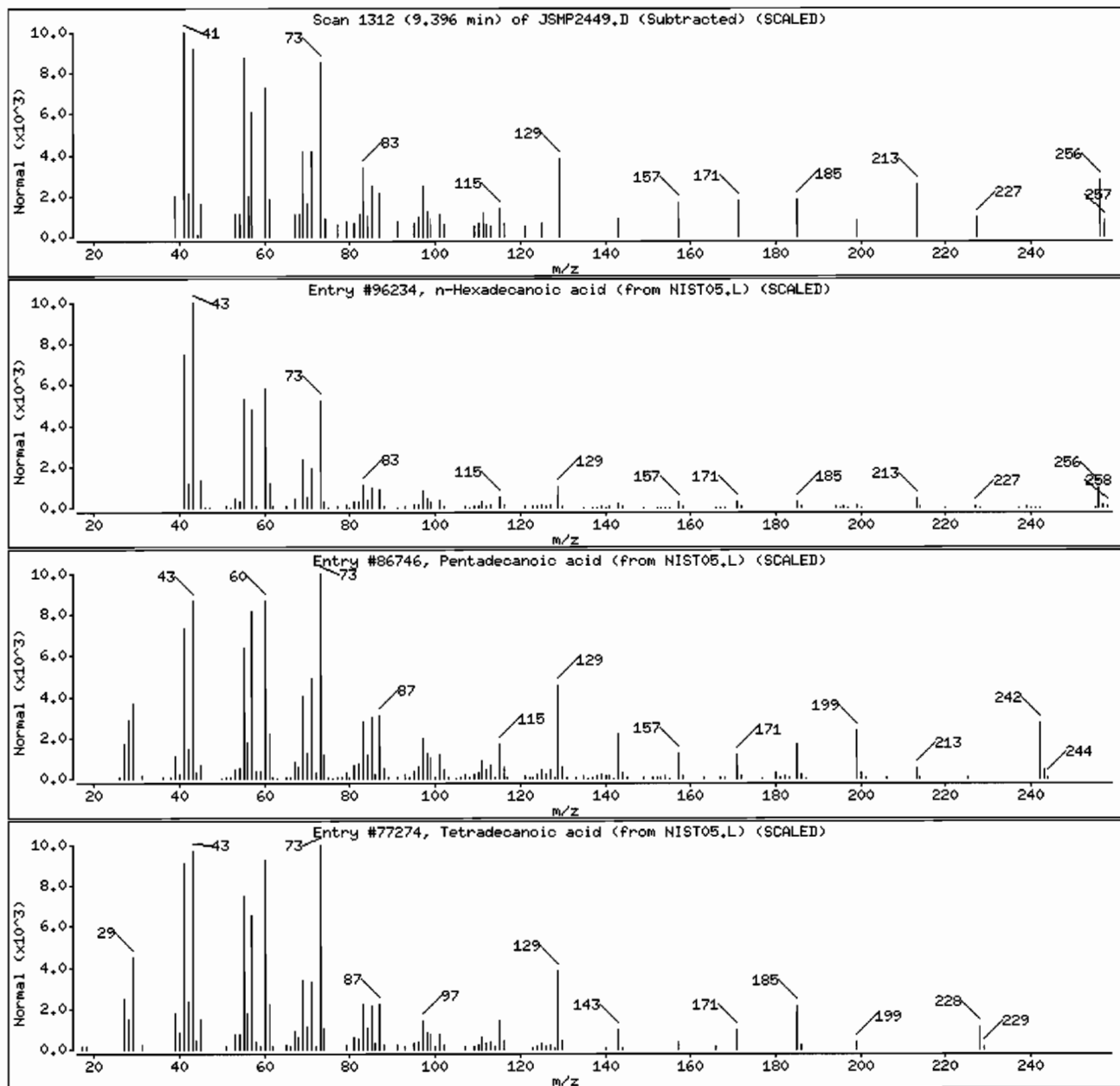
Volume Injected (uL): 1.0

Operator: JMW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	96	C16H32O2	256
Pentadecanoic acid	1002-84-2	NIST05.L	86746	64	C15H30O2	242
Tetradecanoic acid	544-63-8	NIST05.L	77274	49	C14H28O2	228



Data File: \\slsvr01\lbnalab\HSJ.i\J100415A.B\JSHMP2449.D

Page 6

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: HSJ.i

Sample Info: LXNKC1AE

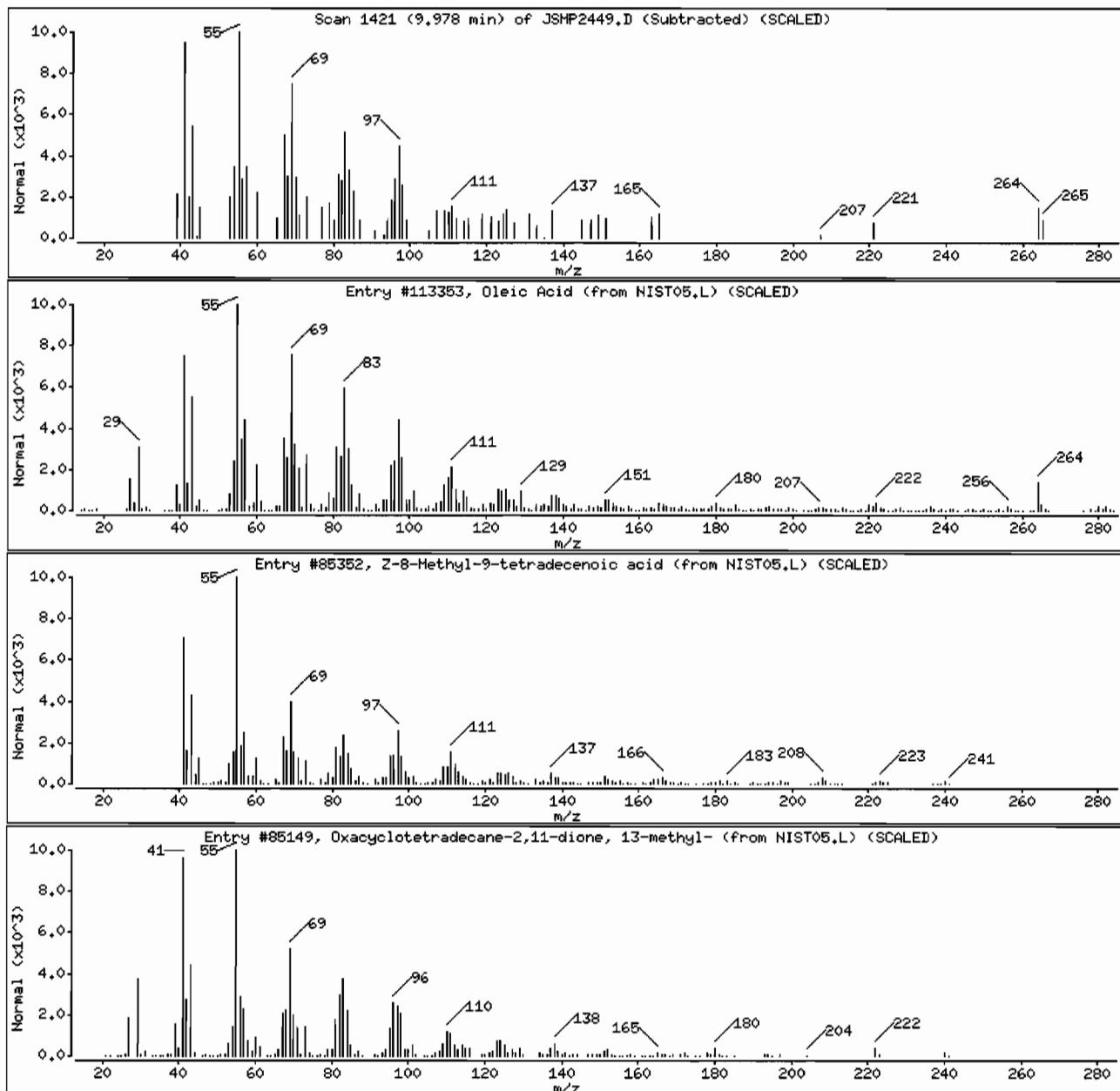
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Oleic Acid	112-80-1	NIST05.L	113353	76	C18H34O2	282
Z-8-Methyl-9-tetradecenoic acid	1000130-84-5	NIST05.L	85352	52	C15H28O2	240
Oxacyclotetradecane-2,11-dione, 13-methy	74685-36-2	NIST05.L	85149	45	C14H24O3	240



Data File: \\slsvr01\lbnalab\MSJ,i\J100415A,B\JSHMP2449.D

Page 7

Date : 15-APR-2010 19:38

Client ID: RE12-10-15443

Instrument: MSJ,i

Sample Info: LXXKC1AE

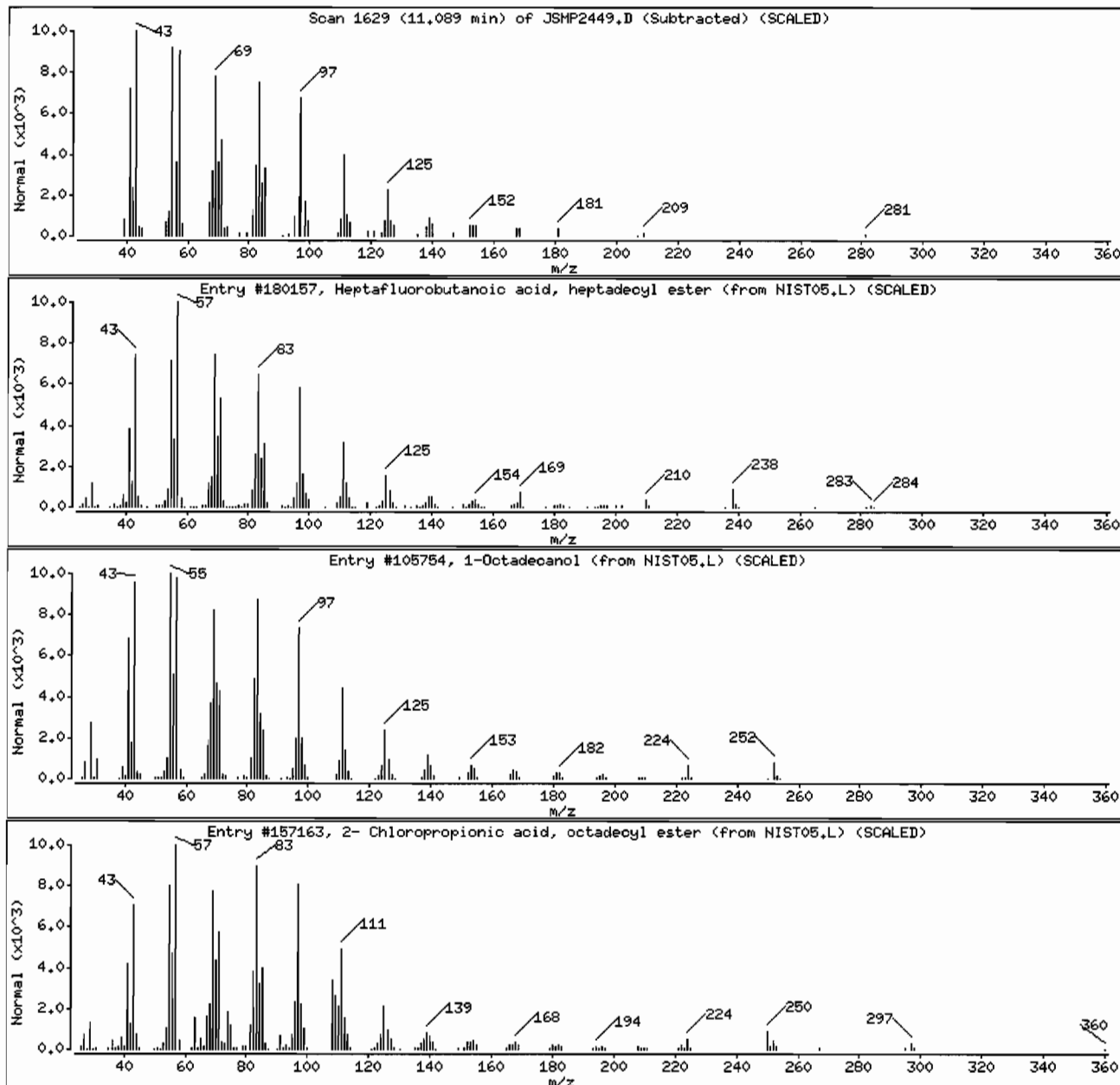
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heptafluorobutanoic acid, heptadecyl est	1000282-97-3	NIST05.L	180157	95	C21H35F7O2	452
1-Octadecanol	112-92-5	NIST05.L	105754	93	C18H38O	270
2-Chloropropionic acid, octadecyl ester	88104-31-8	NIST05.L	157163	91	C21H41ClO2	360



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Report Date: 16-Apr-2010 11:53

Page 1

TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Lab Smp Id: LXNKE1AE Client Smp ID: RE12-10-15442  
 Inj Date : 15-APR-2010 20:04  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKE1AE  
 Misc Info : F0D080489-003 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 24  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*****	****	****	*****	*****	*****	*****	*****
\$ 10 2-Fluorophenol	112	4.557	4.549	(0.829)	153696	58.3487	1945
\$ 15 Phenol-d5	99	5.235	5.227	(0.952)	198240	58.8280	1961
* 22 1,4-Dichlorobenzene-d4	152	5.497	5.495	(1.000)	91849	40.0000	
\$ 36 Nitrobenzene-d5	82	5.930	5.927	(0.917)	134230	36.9419	1231
* 48 Naphthalene-d8	136	6.464	6.461	(1.000)	328963	40.0000	
\$ 69 2-Fluorobiphenyl	172	7.286	7.289	(0.928)	251969	35.9341	1198
* 82 Acenaphthene-d10	164	7.852	7.850	(1.000)	196434	40.0000	
\$ 104 2,4,6-Tribromophenol	330	8.493	8.491	(0.939)	71952	64.3893	2146
* 121 Phenanthrene-d10	188	9.044	9.041	(1.000)	386097	40.0000	
\$ 139 Terphenyl-d14	244	10.336	10.334	(0.902)	321498	37.8171	1260
* 153 Chrysene-d12	240	11.458	11.450	(1.000)	401191	40.0000	
* 166 Perylene-d12	264	13.792	13.779	(1.000)	218617	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Report Date: 16-Apr-2010 11:53

Page 1

## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Lab Smp Id: LXNKE1AE Client Smp ID: RE12-10-15442  
 Inj Date : 15-APR-2010 20:04  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKE1AE  
 Misc Info : F0D080489-003 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 24  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.498	641369	40.000
* 82 Acenaphthene-d10	7.853	1641630	40.000
* 121 Phenanthrene-d10	9.044	1029810	40.000
* 153 Chrysene-d12	11.458	1457273	40.000
* 166 Perylene-d12	13.792	572983	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
4.296	3199629	199.549680	6652	0		0	22
7.324	333213	8.11906734	270.6	91	NIST05.L	59930	82

Unknown Aldol Condensate CAS #:

Bicyclo[3.1.1]hept-2-ene, 2,6-dimethyl-6 CAS #: 17699-05-7



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Report Date: 16-Apr-2010 11:53

Page 2

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Unknown				CAS #:			
7.394	331332	8.07324443	269.1	0		0	82
1,4-Methano-1H-indene, octahydro-4-methy				CAS #: 3650-28-0			
7.431	615250	14.9911891	499.7	99	NIST05.L	60093	82
Unknown				CAS #:			
7.495	1746925	42.5655870	1419	0		0	82
Unknown				CAS #:			
7.543	13004440	316.866364	10560	0		0	82
1H-3a,7-Methanoazulene, octahydro-3,8,8-				CAS #: 546-28-1			
7.597	436959	10.6469603	354.9	93	NIST05.L	60040	82
Unknown				CAS #:			
7.741	1139073	27.7546677	925.2	0		0	82
Unknown				CAS #:			
7.762	574727	14.0037990	466.8	0		0	82
Unknown				CAS #:			
8.414	755804	18.4159240	613.9	0		0	82
2-Naphthalenemethanol, decahydro-.alpha.				CAS #: 473-15-4			
8.510	1503770	58.4096041	1947	91	NIST05.L	73009	121
Unknown				CAS #:			
8.697	1794947	69.7195171	2324	0		0	121
Unknown				CAS #:			
8.793	881217	34.2283235	1141	0		0	121
Unknown				CAS #:			
8.921	806071	31.3094729	1044	0		0	121
Unknown				CAS #:			
9.268	922202	35.8202654	1194	0		0	121
Unknown Organic Acid				CAS #:			
9.391	361672	14.0481120	468.3	0		0	121
Unknown				CAS #:			
9.931	387158	15.0380142	501.3	0		0	121
Unknown				CAS #:			
9.973	556595	21.6193272	720.6	0		0	121
Unknown				CAS #:			
10.176	488869	18.9886938	633.0	0		0	121
Unknown				CAS #:			
10.369	2424782	66.5566816	2218	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
Report Date: 16-Apr-2010 11:53

Page 3

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
10.588	837026	22.9751271	765.8	0		0	153
Unknown					CAS #:		
11.266	339531	9.31962235	310.6	0		0	153
Unknown					CAS #:		
12.072	869432	23.8646275	795.5	0		0	153
Unknown Alkane					CAS #:		
12.884	375015	26.1798425	872.7	0		0	166
Unknown					CAS #:		
12.996	557702	38.9332078	1298	0		0	166
Unknown Alkane					CAS #:		
14.310	842098	58.7868739	1960	0		0	166
Unknown					CAS #:		
14.449	1152269	80.4399075	2681	0		0	166
Unknown Alkane					CAS #:		
15.907	866925	60.5200495	2017	0		0	166

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D  
 Report Date: 16-Apr-2010 11:53

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2450.D Calibration Time: 11:13  
 Lab Smp Id: LXNKE1AE Client Smp ID: RE12-10-15442  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-003 (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	91849	-10.15
48 Naphthalene-d8	360526	180263	721052	328963	-8.75
82 Acenaphthene-d10	206190	103095	412380	196434	-4.73
121 Phenanthrene-d10	415780	207890	831560	386097	-7.14
153 Chrysene-d12	446285	223143	892570	401191	-10.10
166 Perylene-d12	410994	205497	821988	218617	-46.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.05
48 Naphthalene-d8	6.46	5.96	6.96	6.46	0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.03
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.07
166 Perylene-d12	13.78	13.28	14.28	13.79	0.10

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: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHP2450.D

Date: 15-APR-2010 20:04

Client ID: RE12-10-15442

Sample Info: LAMKEIAE

Volume Injected (uL): 1.0

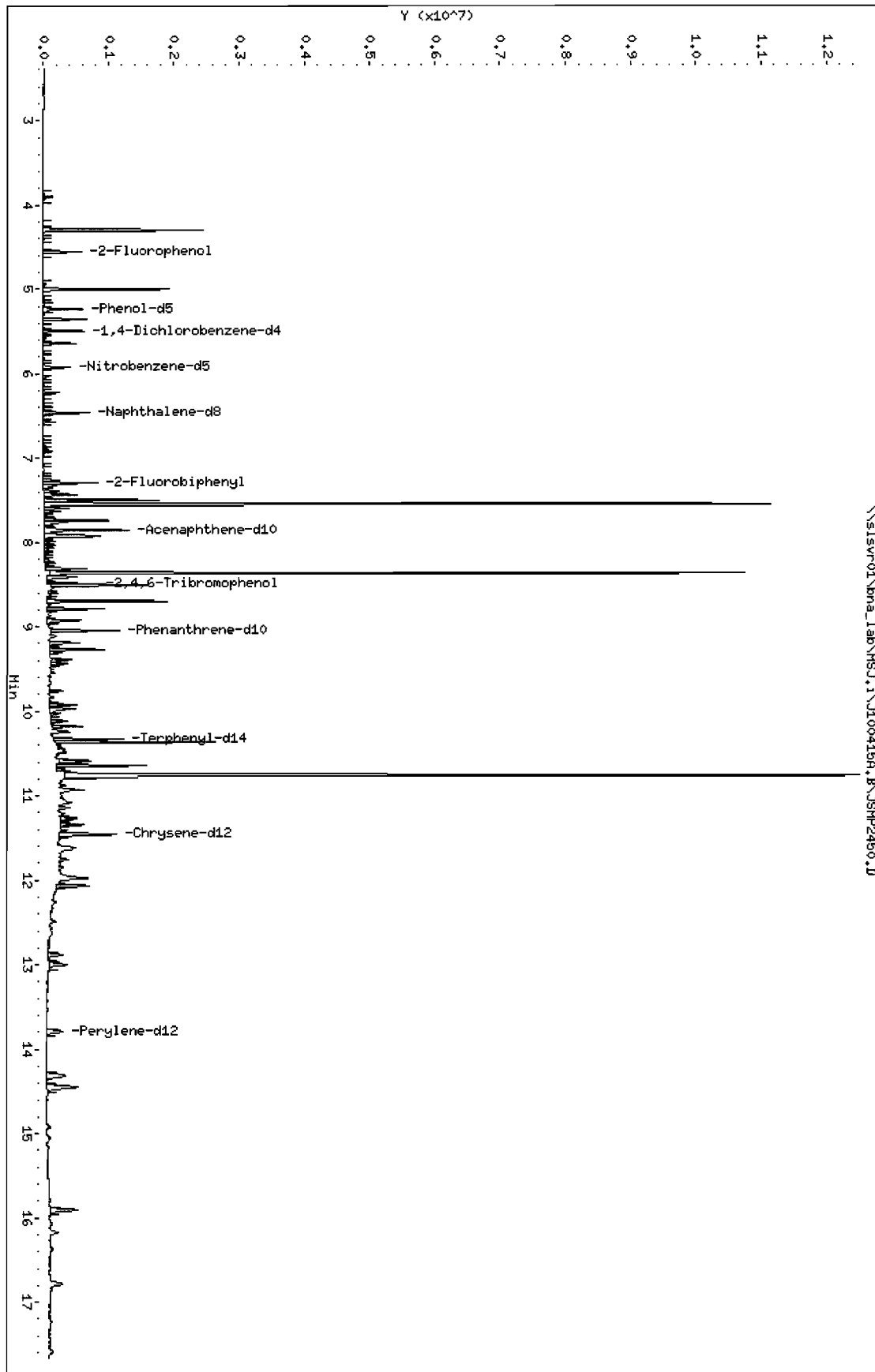
Column Phase:

Instrument: MSJ.i

Operator: JM/HAK

Column diameter: 2.00

Page 1



Data File: \\slsvr01\kna\_lab\MSJ,i\J100415A,B\JSMP2450.D

Page 1

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

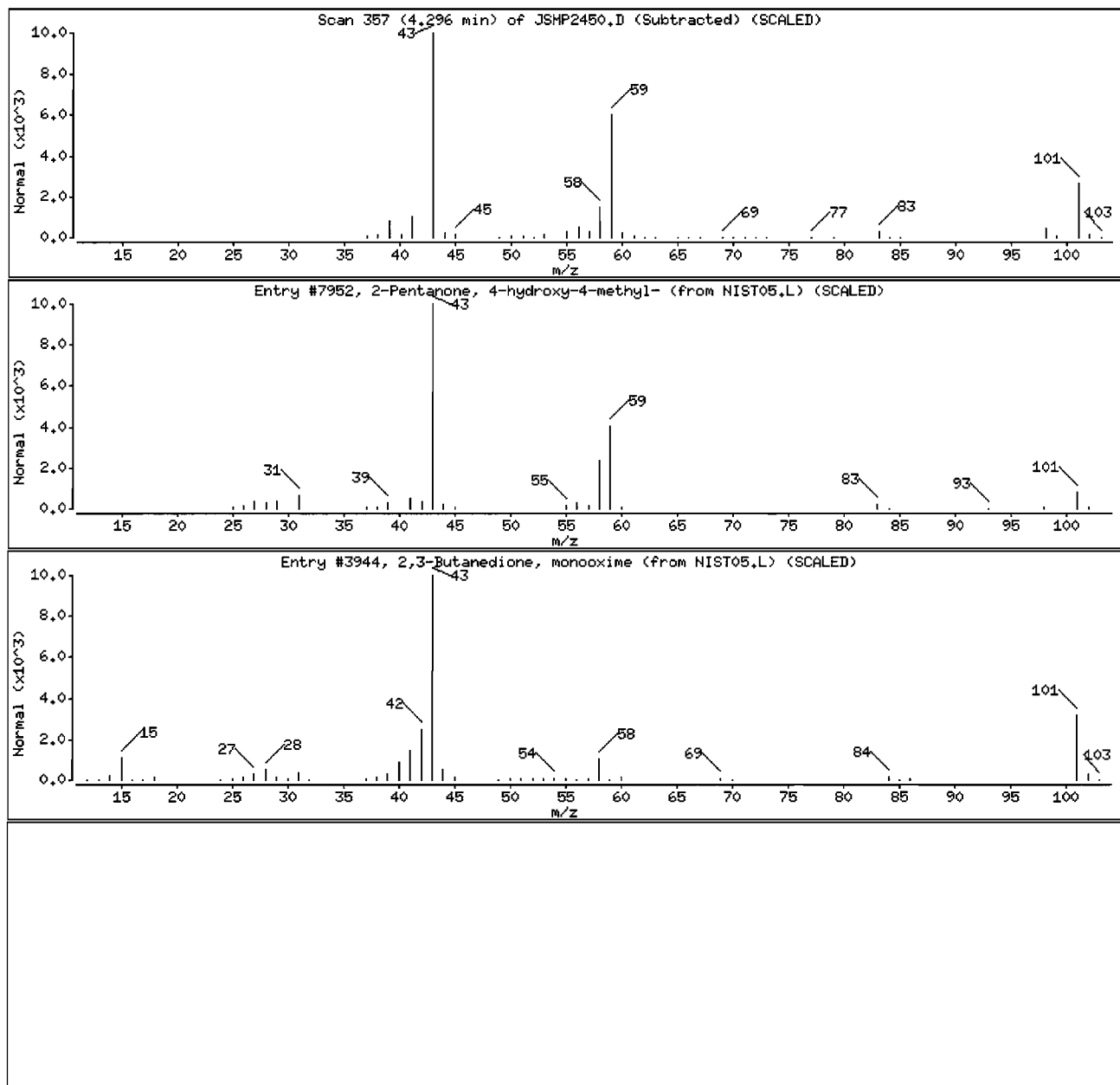
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7952	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSP2450.D

Page 2

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

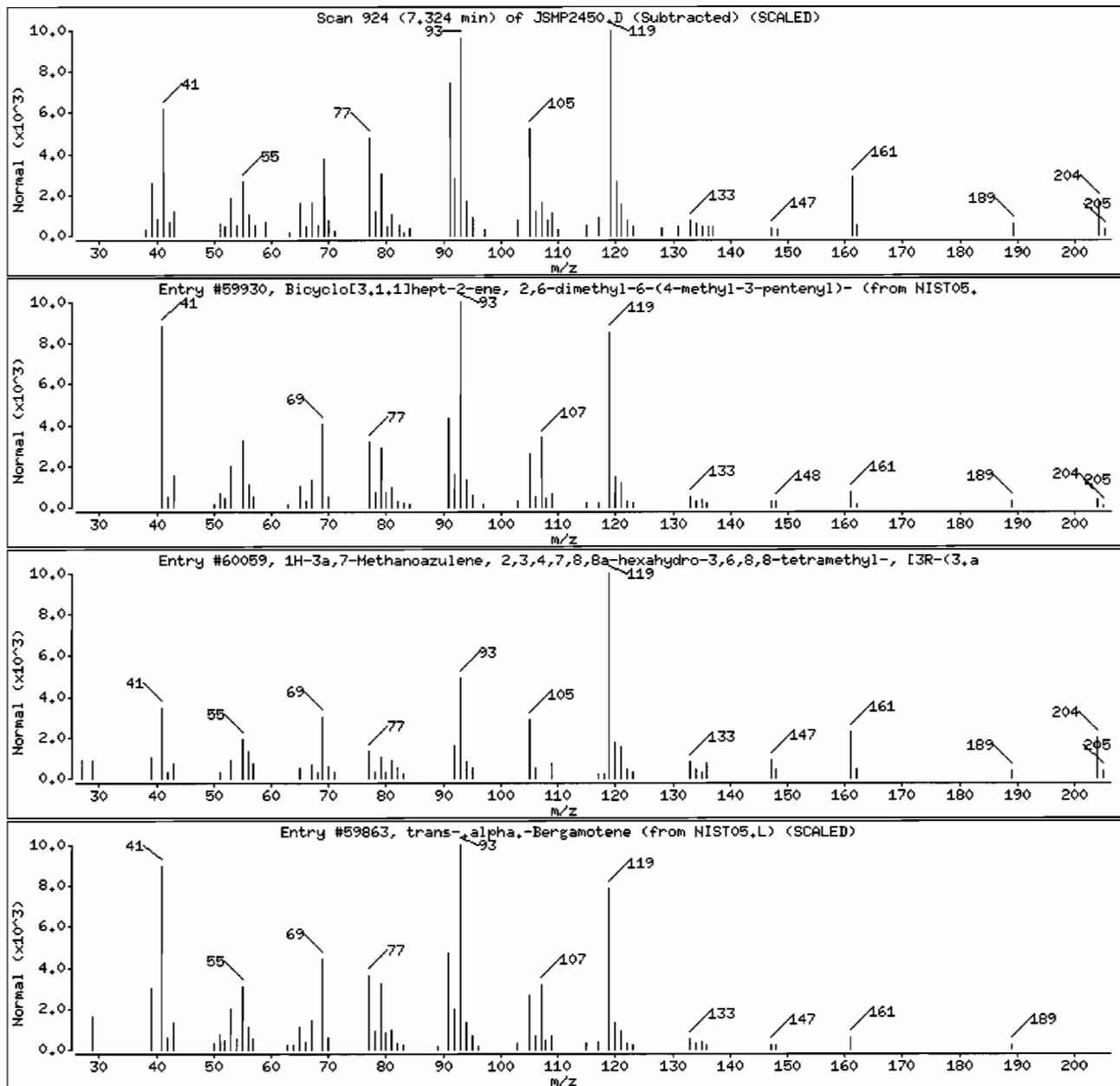
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[3.1.1]hept-2-ene, 2,6-dimethyl-6	17699-05-7	NIST05.L	59930	91	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60059	76	C15H24	204
trans- $\alpha$ , $\beta$ -Bergamotene	1000293-01-5	NIST05.L	59863	72	C15H24	204



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2450.D

Page 3

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LMXKE1AE

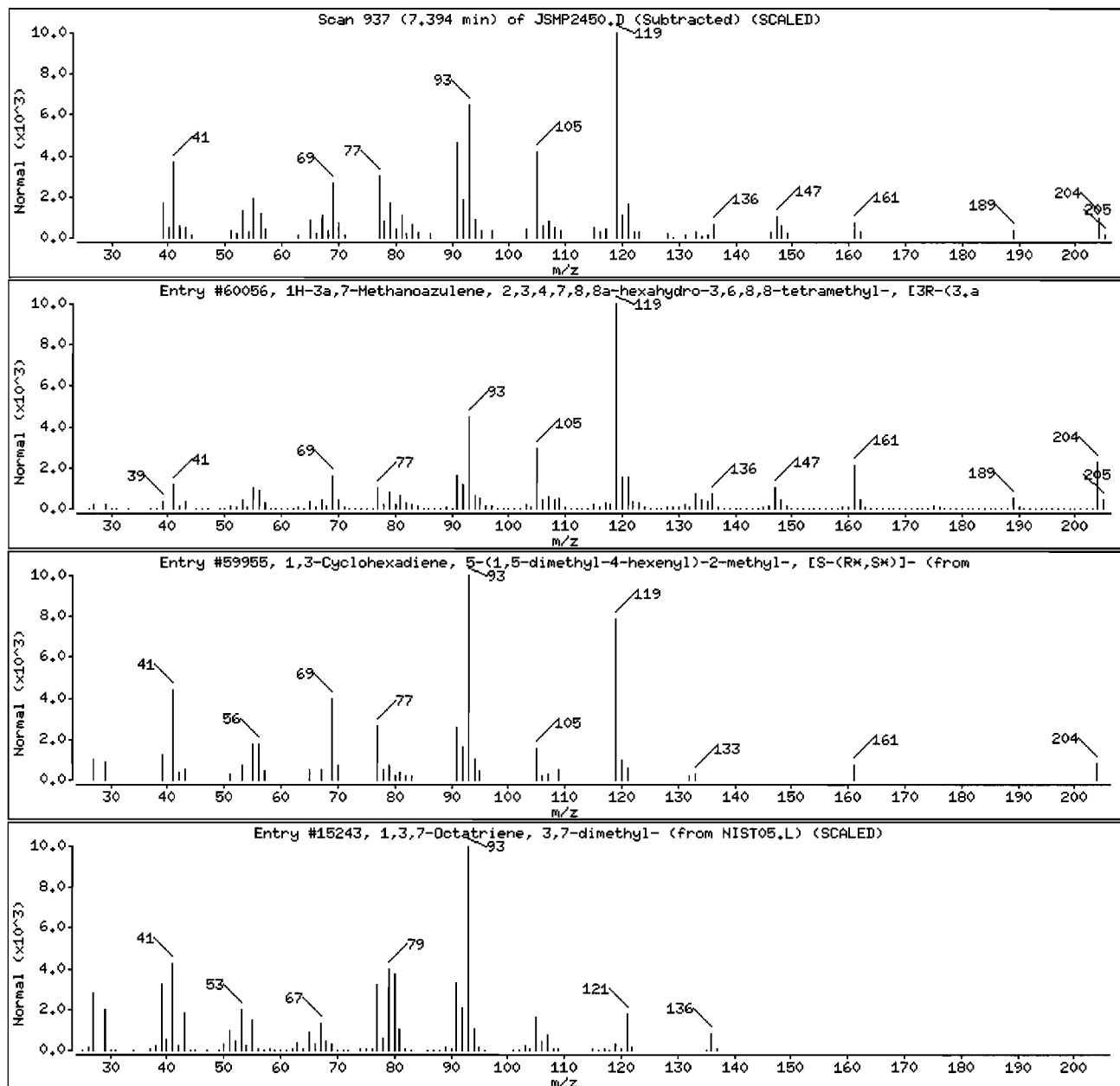
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60056	72	C15H24	204
1,3-Cyclohexadiene, 5-(1,5-dimethyl-4-he	495-60-3	NIST05.L	59955	64	C15H24	204
1,3,7-Octatriene, 3,7-dimethyl-	502-99-8	NIST05.L	15243	55	C10H16	136



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

Page 4

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

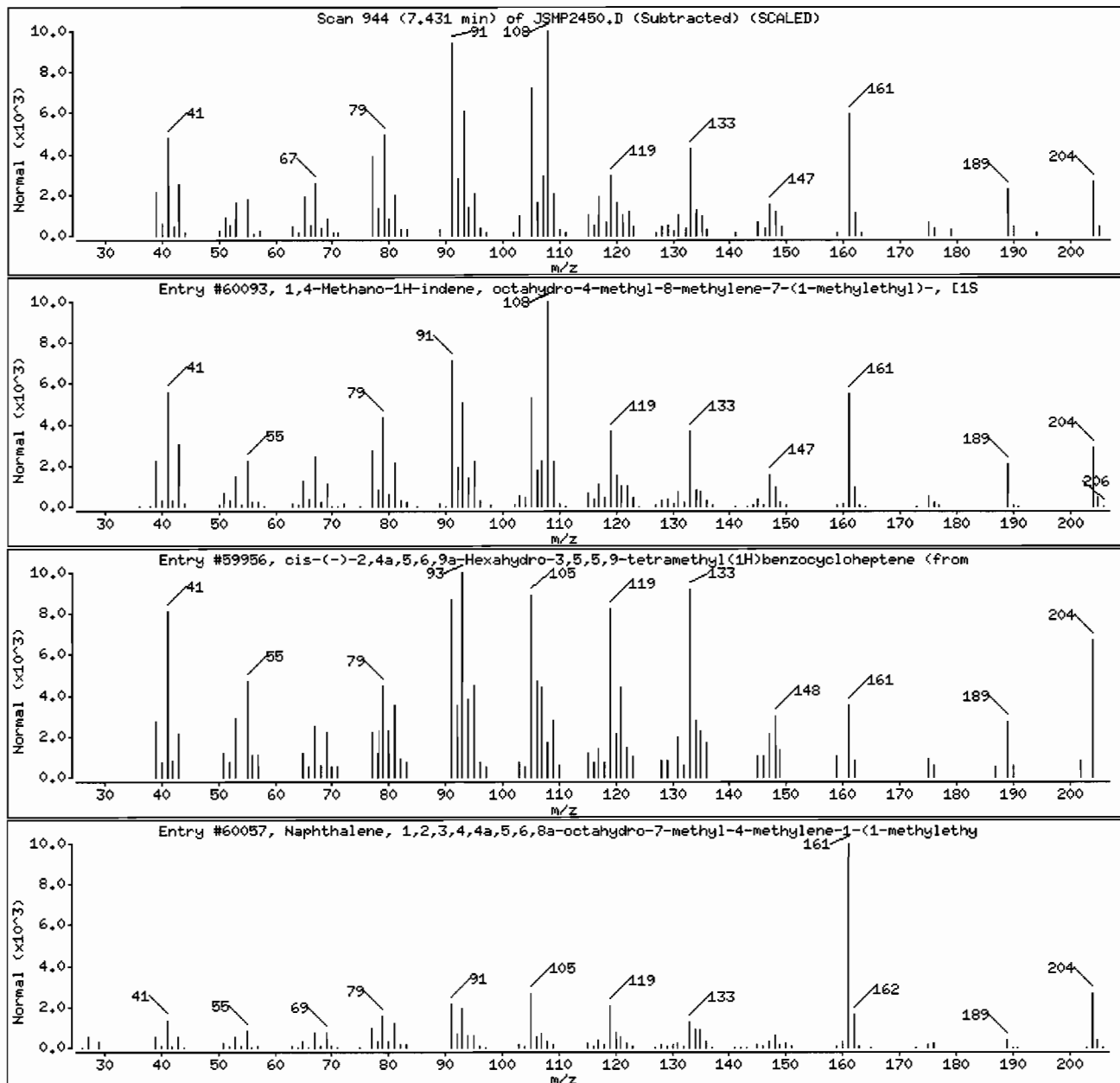
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methano-1H-indene, octahydro-4-methy	3650-28-0	NIST05.L	60093	99	C15H24	204
cis-(-)-2,4a,5,6,9a-Hexahydro-3,5,5,9-te	1000104-20-1	NIST05.L	59956	89	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	39029-41-9	NIST05.L	60057	86	C15H24	204





Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2450.D

Page 5

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

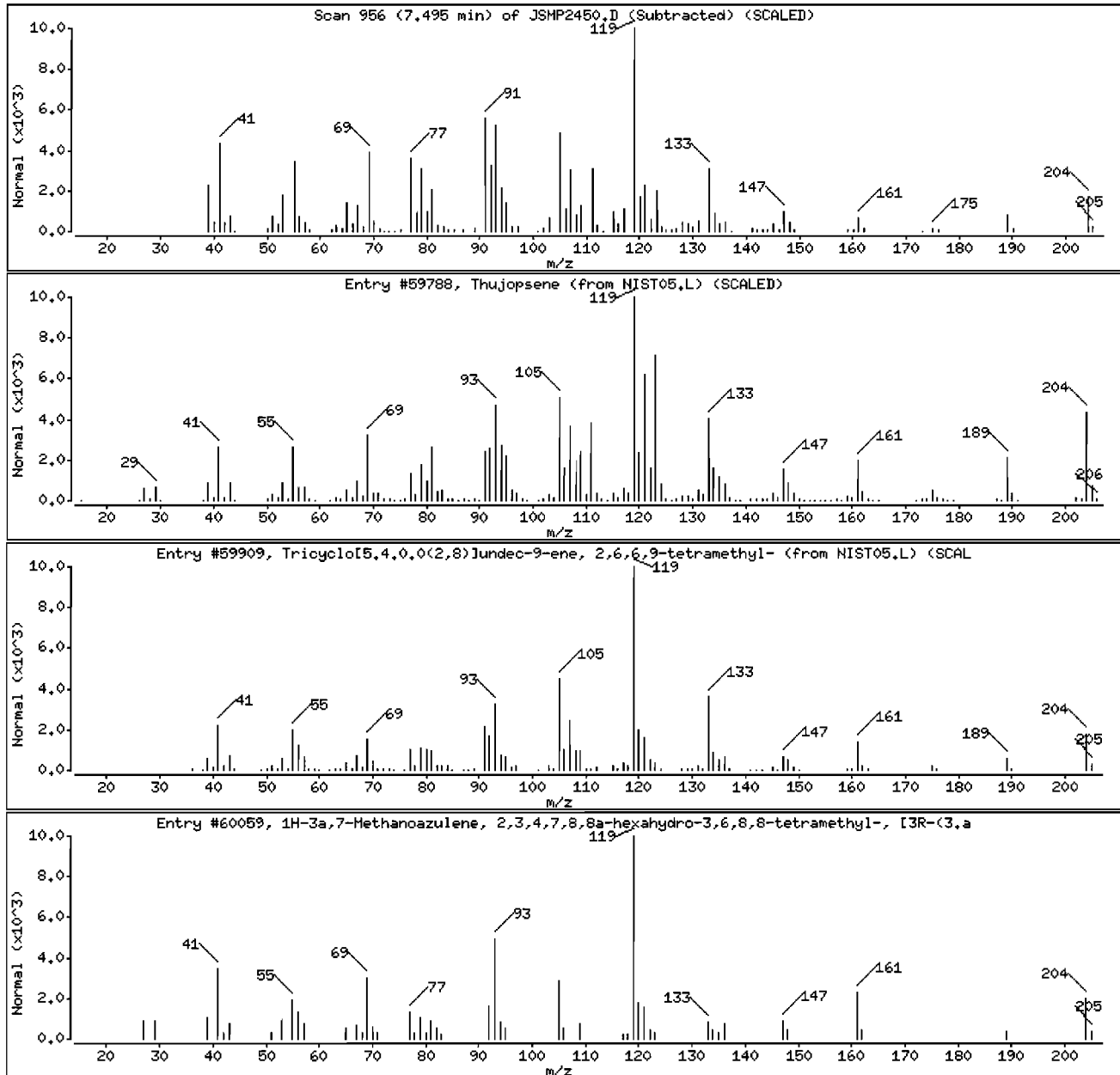
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Thujopsene	470-40-6	NIST05.L	59788	83	C15H24	204
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	83	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60059	53	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

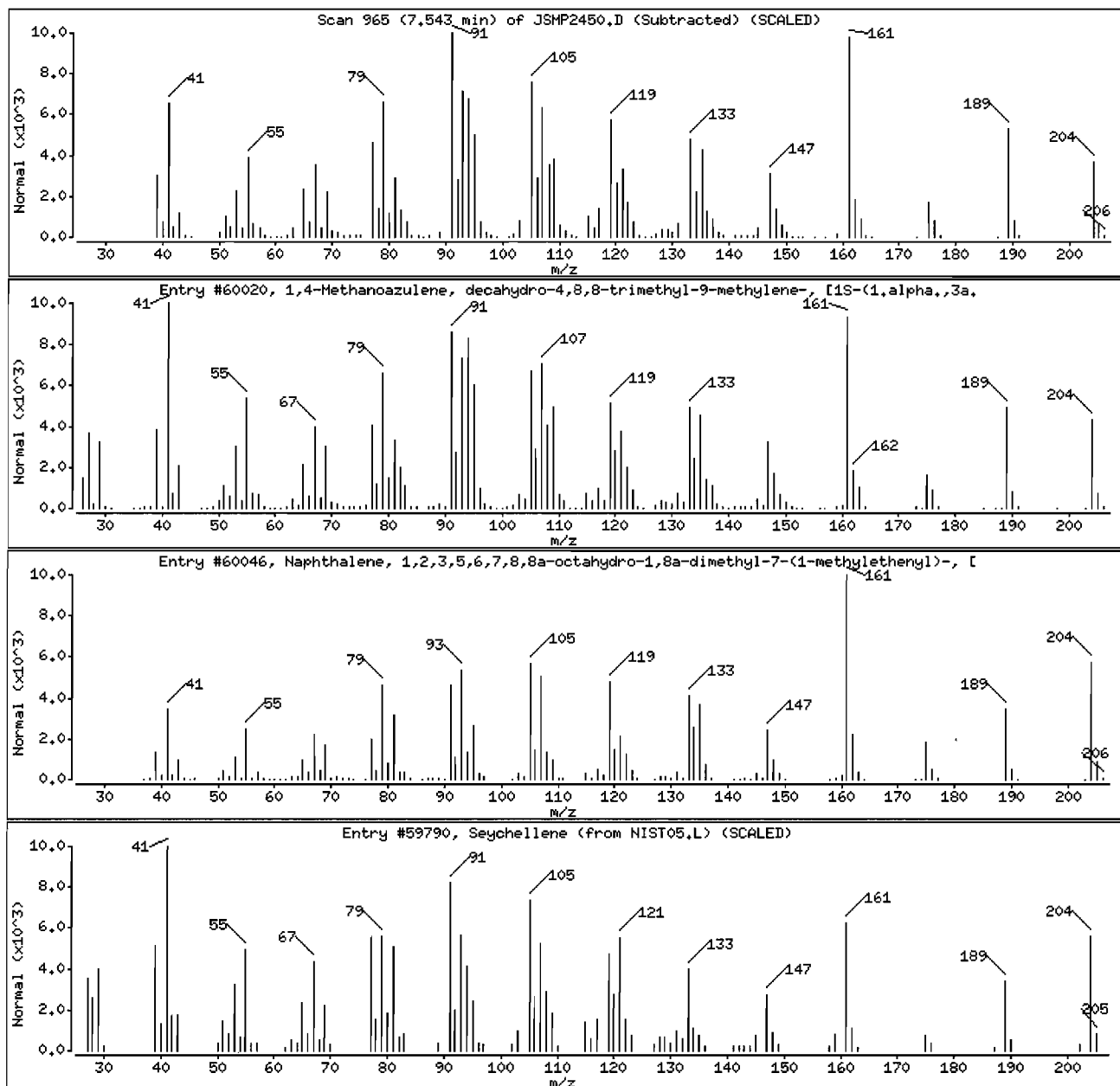
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.	475-20-7	NIST05.L	60020	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60046	97	C15H24	204
Seychellene	20085-93-2	NIST05.L	59790	95	C15H24	204



Data File: \\slsvr01\kna\_lab\MSJ,i\J100415A,B\JSHP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

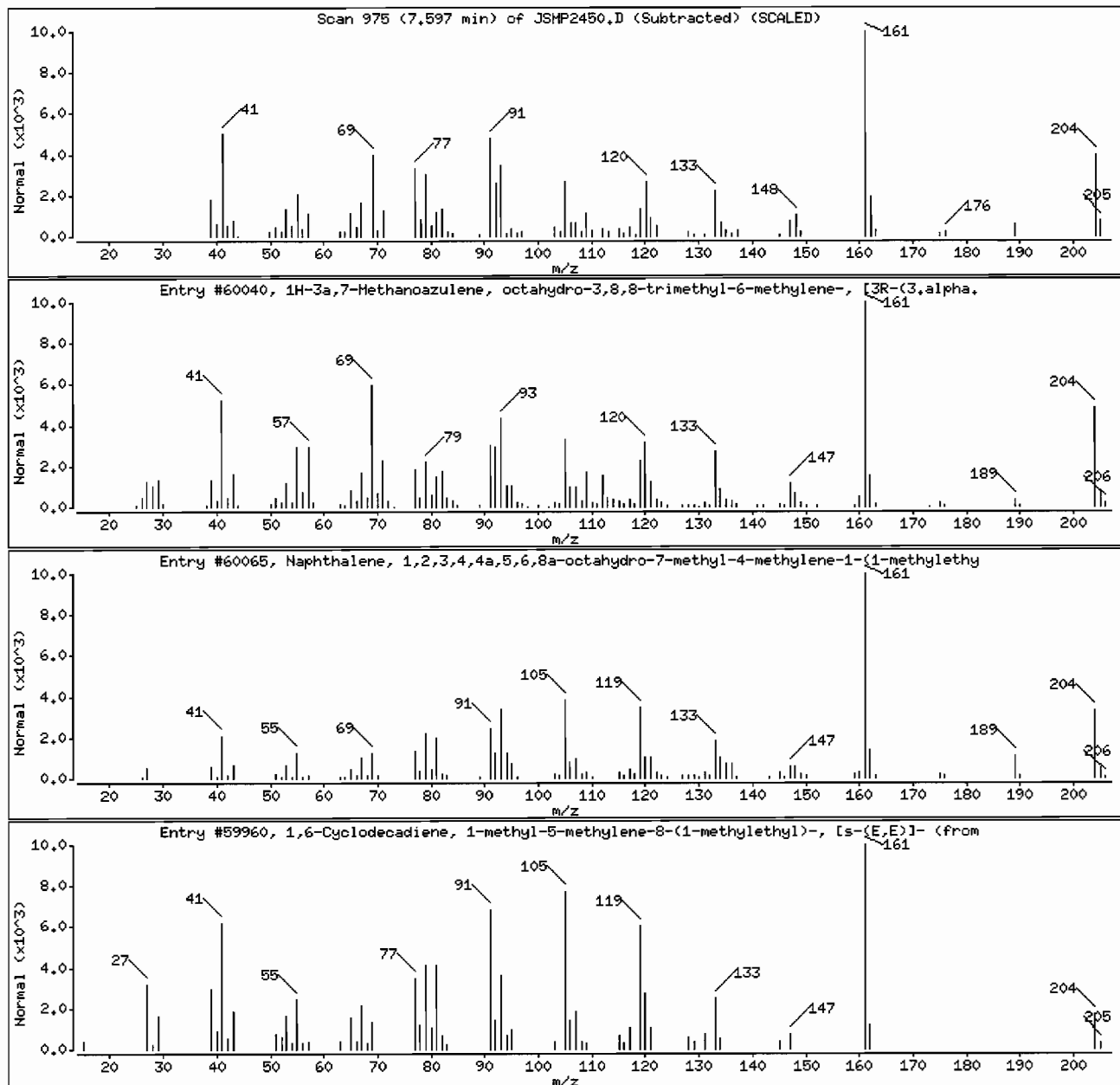
Volume Injected (uL): 1.0

Operator: JM/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-3a,7-Methanoazulene, octahydro-3,8,8-	546-28-1	NIST05.L	60040	93	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	30021-74-0	NIST05.L	60065	62	C15H24	204
1,6-Cyclodecadiene, 1-methyl-5-methylene	23986-74-5	NIST05.L	59960	62	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2450.D

Page 8

Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

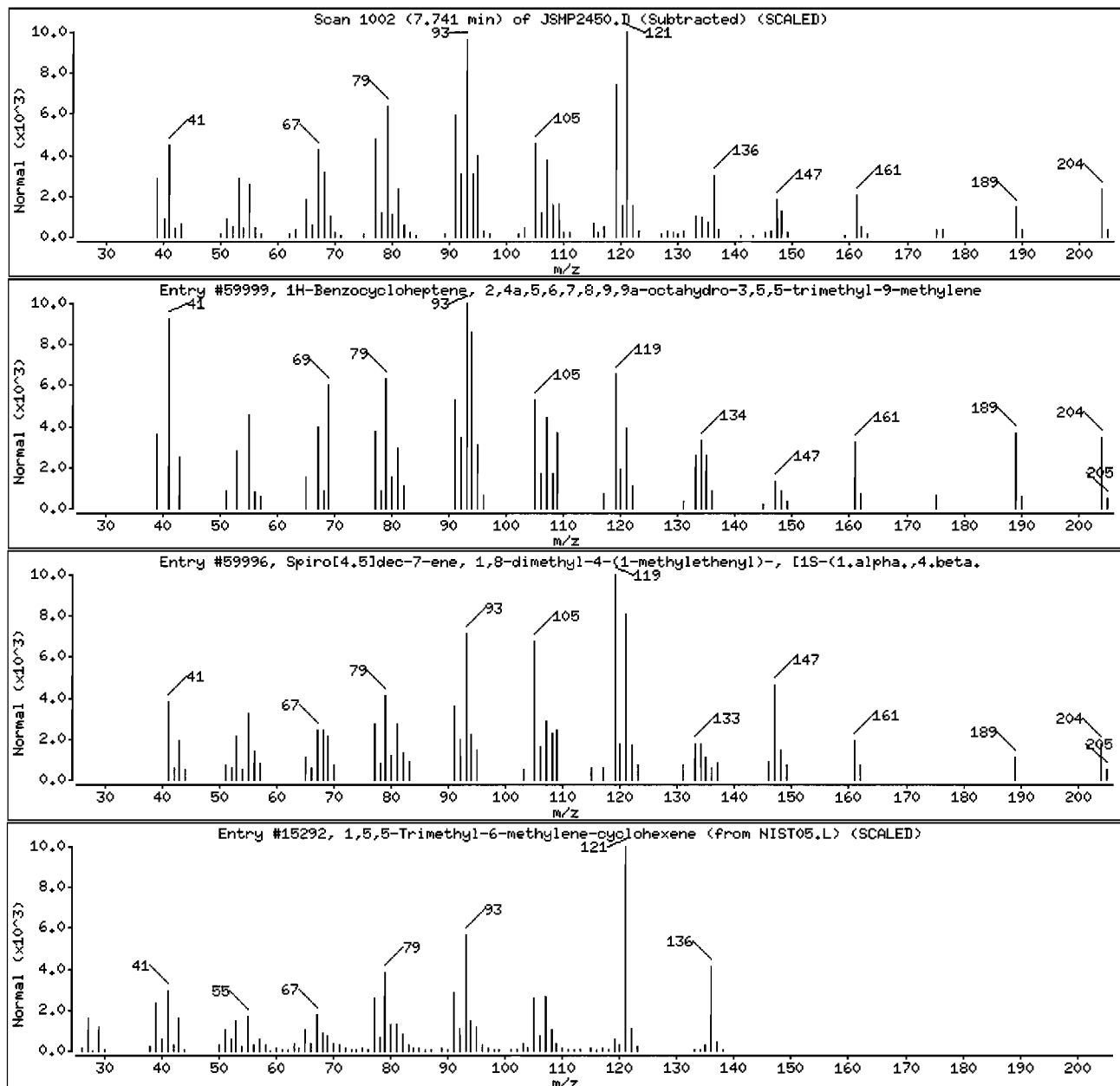
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Benzocycloheptene, 2,4a,5,6,7,8,9,9a-	3853-83-6	NIST05.L	59999	86	C15H24	204
Spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-m	24048-44-0	NIST05.L	59996	83	C15H24	204
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	78	C10H16	136



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSHP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

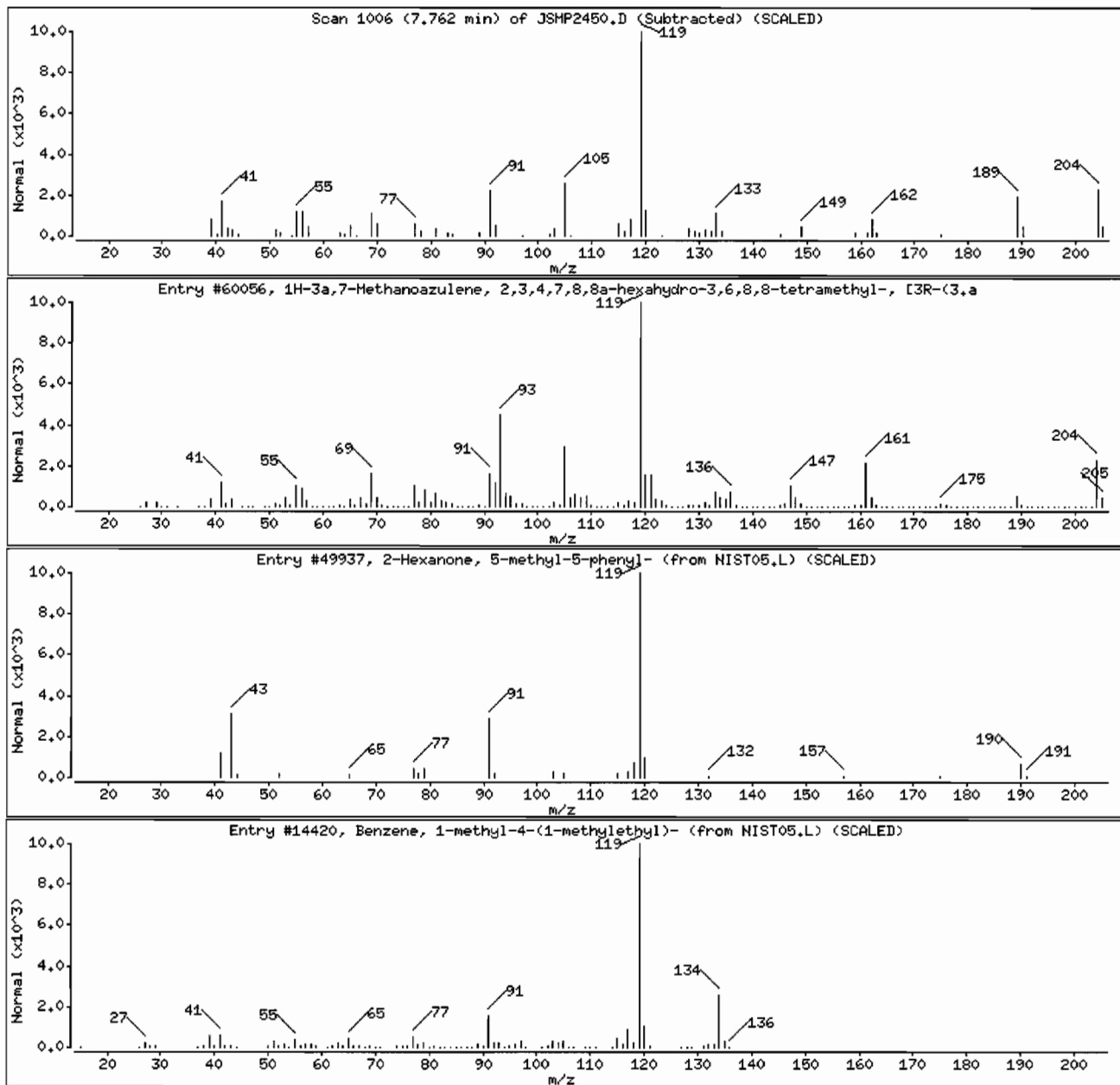
Volume Injected (uL): 1.0

Operator: JH/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60056	72	C15H24	204
2-Hexanone, 5-methyl-5-phenyl-	14128-61-1	NIST05.L	49937	43	C13H18O	190
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NIST05.L	14420	43	C10H14	134



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

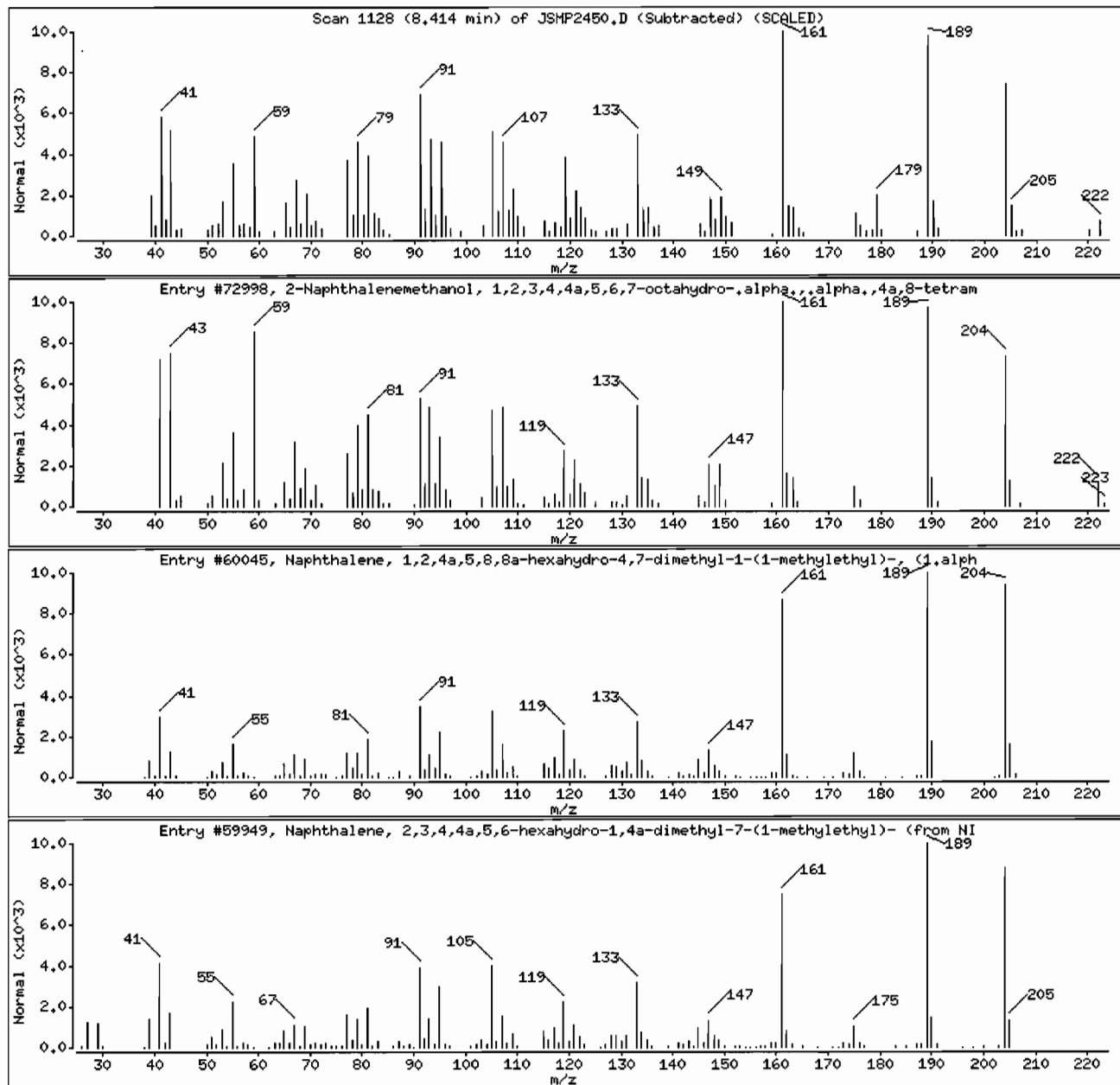
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Naphthalenemethanol, 1,2,3,4,4a,5,6,7-	1209-71-8	NIST05.L	72998	98	C15H26O	222
Naphthalene, 1,2,4a,5,8,8a-hexahydro-4,7	5951-61-1	NIST05.L	60045	94	C15H24	204
Naphthalene, 2,3,4,4a,5,6-hexahydro-1,4a	473-14-3	NIST05.L	59949	89	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

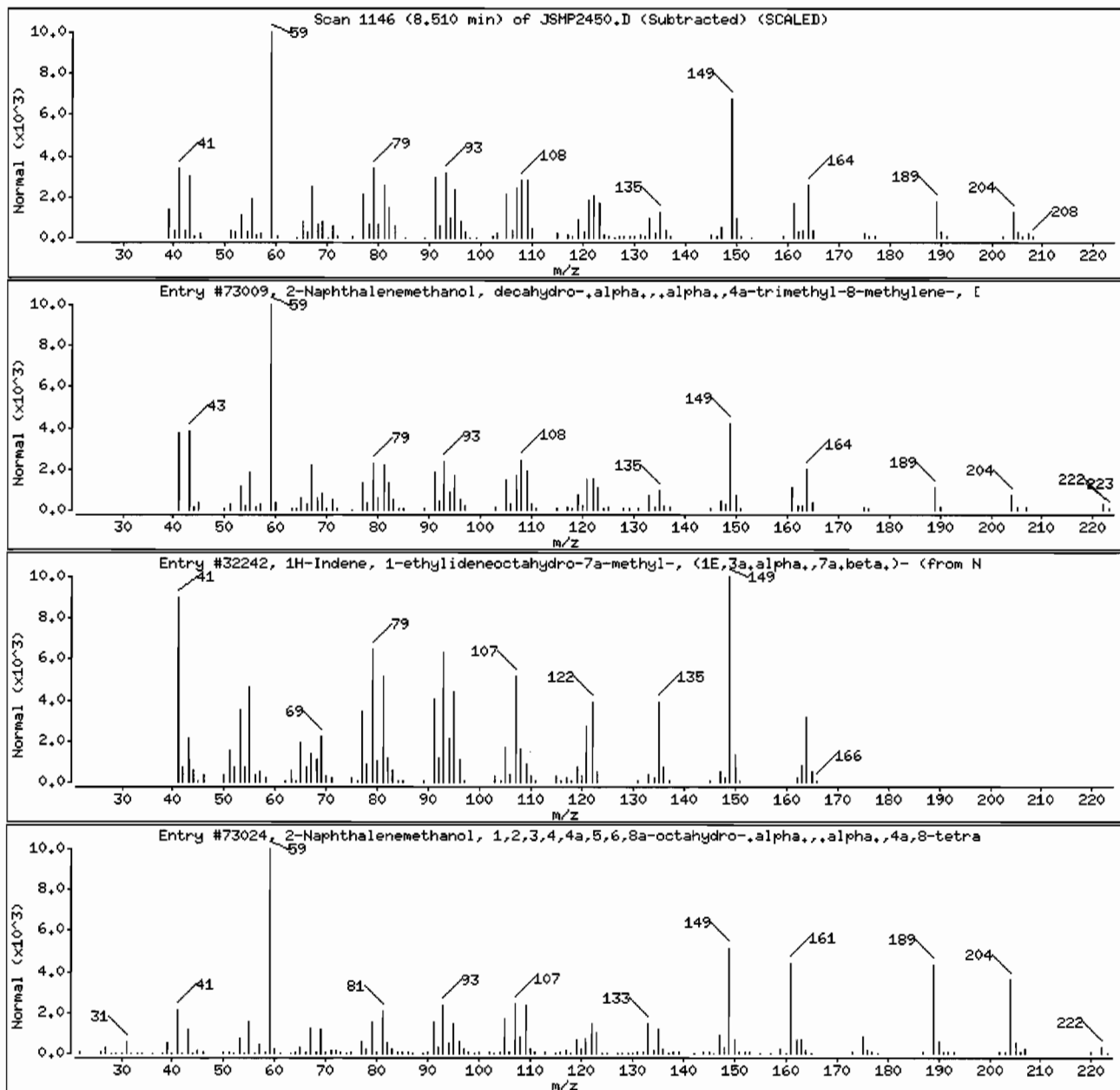
Volume Injected (uL): 1.0

Operator: JH/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Naphthalenemethanol, decahydro-,alpha,	473-15-4	NIST05.L	73009	91	C15H26O	222
1H-Indene, 1-ethylideneoctahydro-7a-meth	56324-68-6	NIST05.L	32242	62	C12H20	164
2-Naphthalenemethanol, 1,2,3,4,4a,5,6,8a	473-16-5	NIST05.L	73024	53	C15H26O	222



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

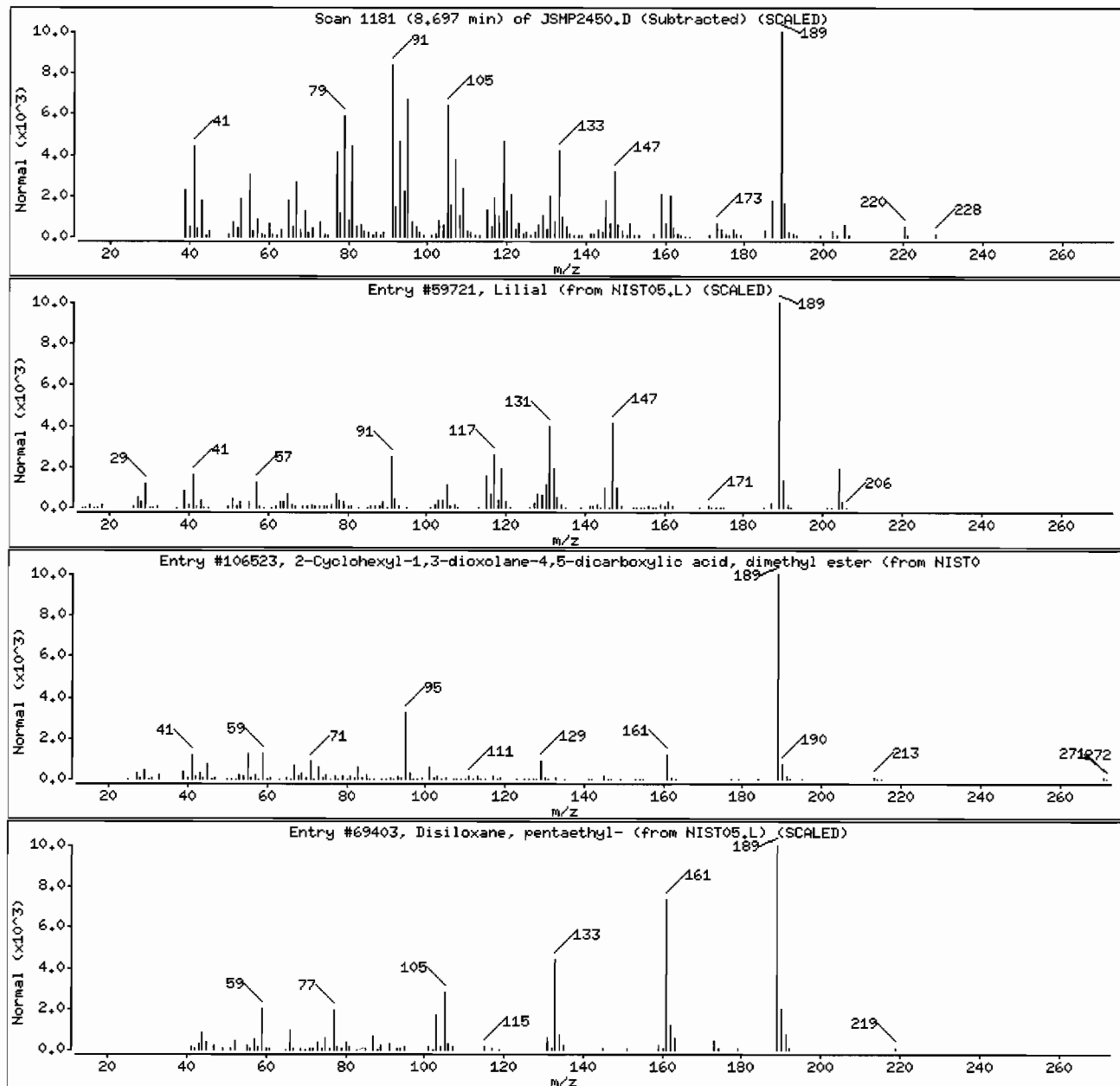
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Lilial	80-54-6	NIST05.L	59721	27	C14H20O	204
2-Cyclohexyl-1,3-dioxolane-4,5-dicarboxy	114026-66-3	NIST05.L	106523	27	C13H20O6	272
Disiloxane, pentaethyl-	61233-74-7	NIST05.L	69403	16	C10H26OSi2	218





Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

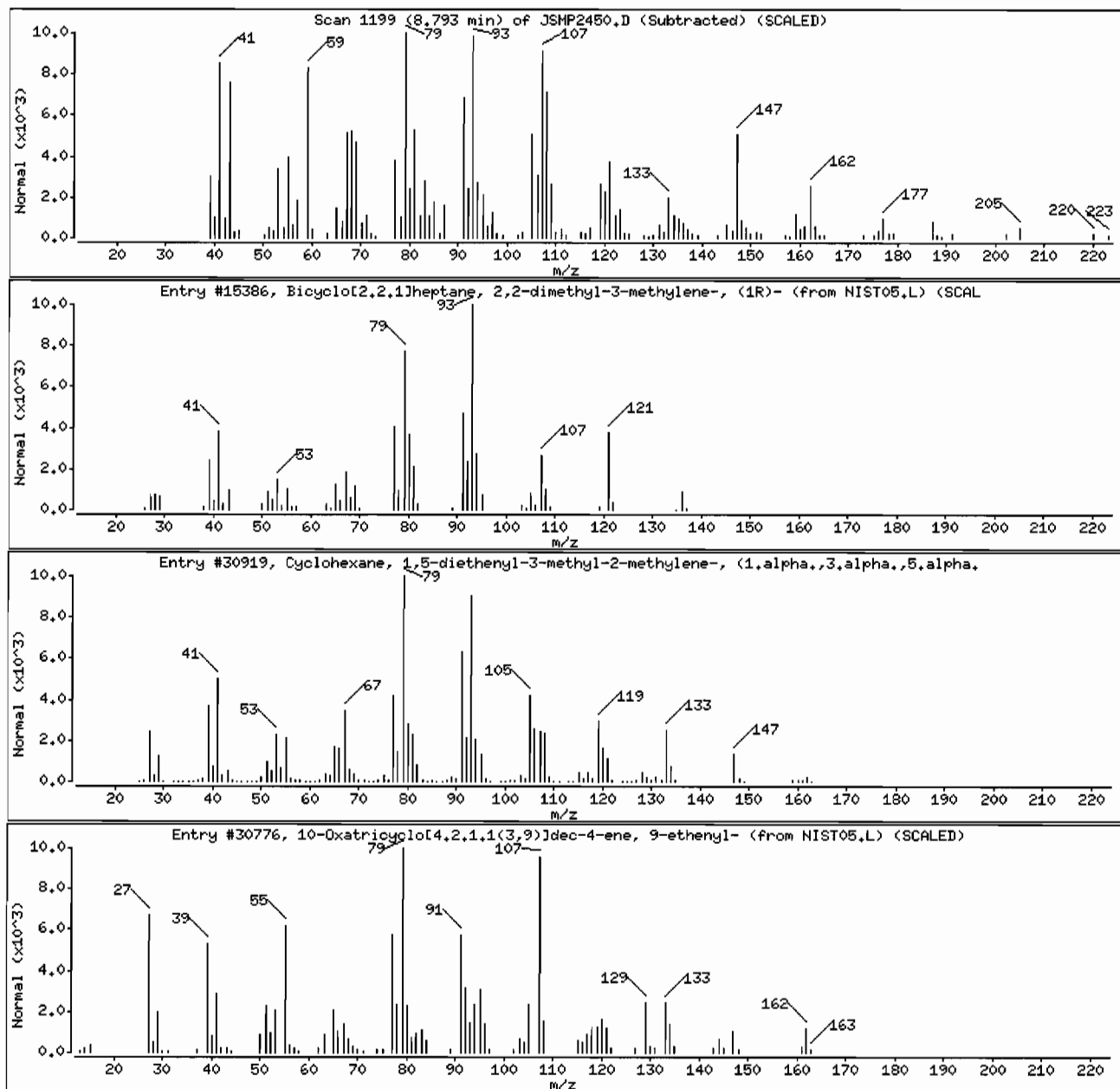
Volume Injected (uL): 1.0

Operator: JH/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	42	C10H16	136
Cyclohexane, 1,5-diethenyl-3-methyl-2-me	74742-35-1	NIST05.L	30919	38	C12H18	162
10-Oxatricyclo[4.2.1.1(3,9)]dec-4-ene, 9	138146-11-9	NIST05.L	30776	27	C11H14O	162



Data File: \\slsvr01\lbnalab\MSJ.i\J100415A.B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

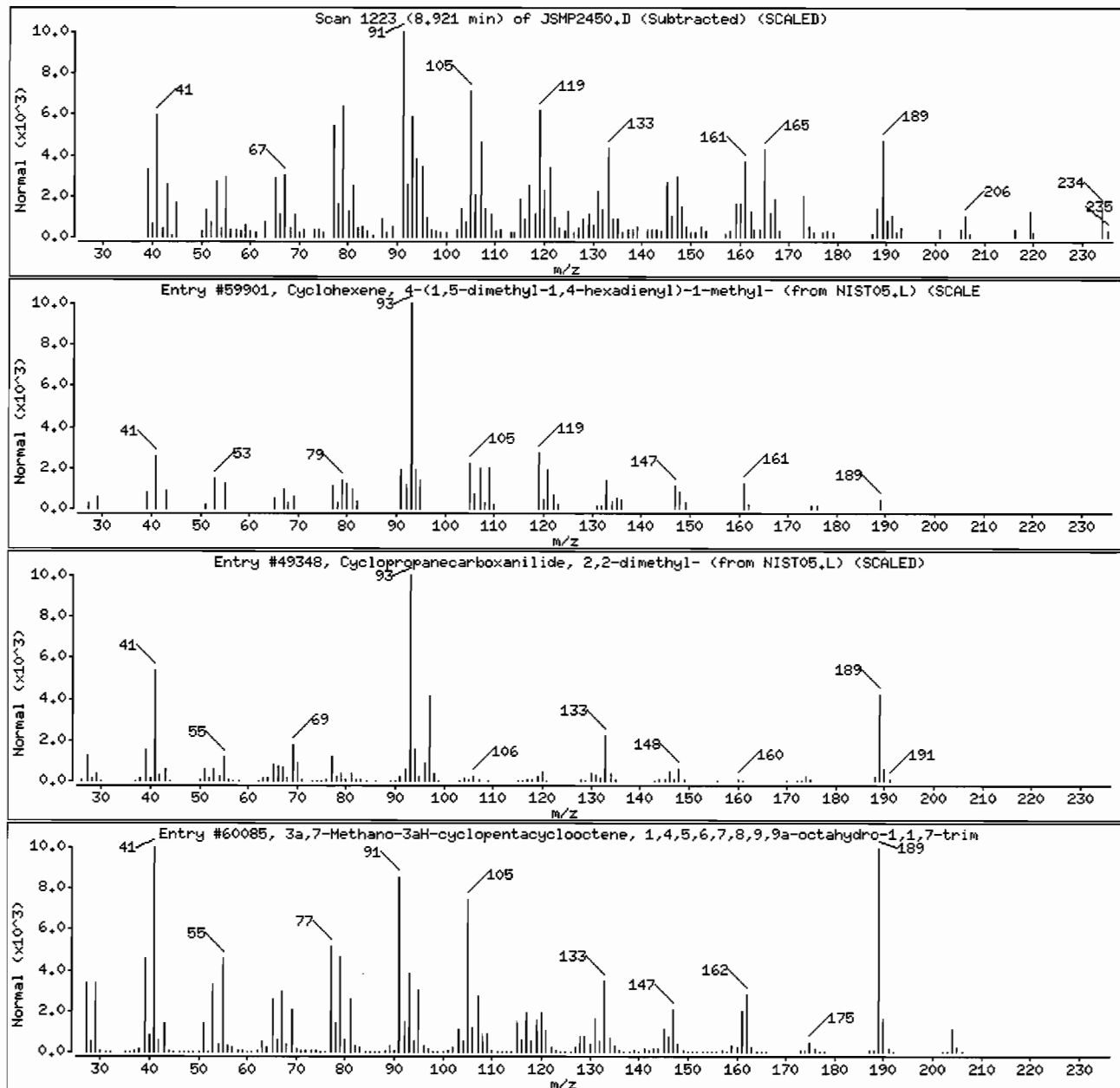
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexene, 4-(1,5-dimethyl-1,4-hexadie	17627-44-0	NIST05.L	59901	38	C15H24	204
Cyclopropanecarboxanilide, 2,2-dimethyl-	2996-59-0	NIST05.L	49348	35	C12H15NO	189
3a,7-Methano-3aH-cyclopentacyclooctene,	469-92-1	NIST05.L	60085	30	C15H24	204



Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

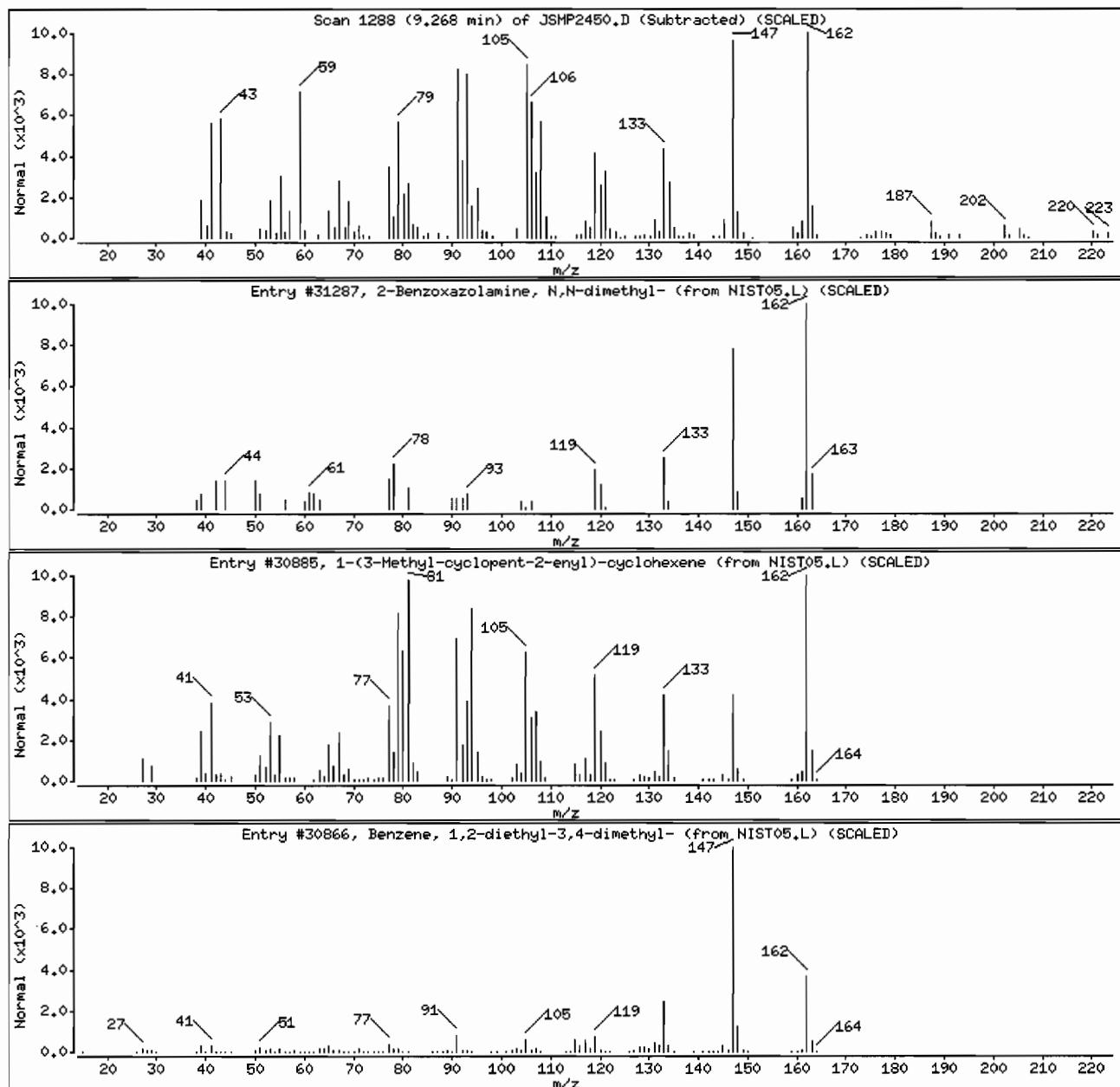
Volume Injected (uL): 1.0

Operator: JWL/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Benzoxazoline, N,N-dimethyl-	13858-89-4	NIST05.L	31287	55	C9H10N2O	162
1-(3-Methyl-cyclopent-2-enyl)-cyclohexen	1000185-30-7	NIST05.L	30885	45	C12H18	162
Benzene, 1,2-diethyl-3,4-dimethyl-	54410-75-2	NIST05.L	30866	45	C12H18	162



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LKNKE1AE

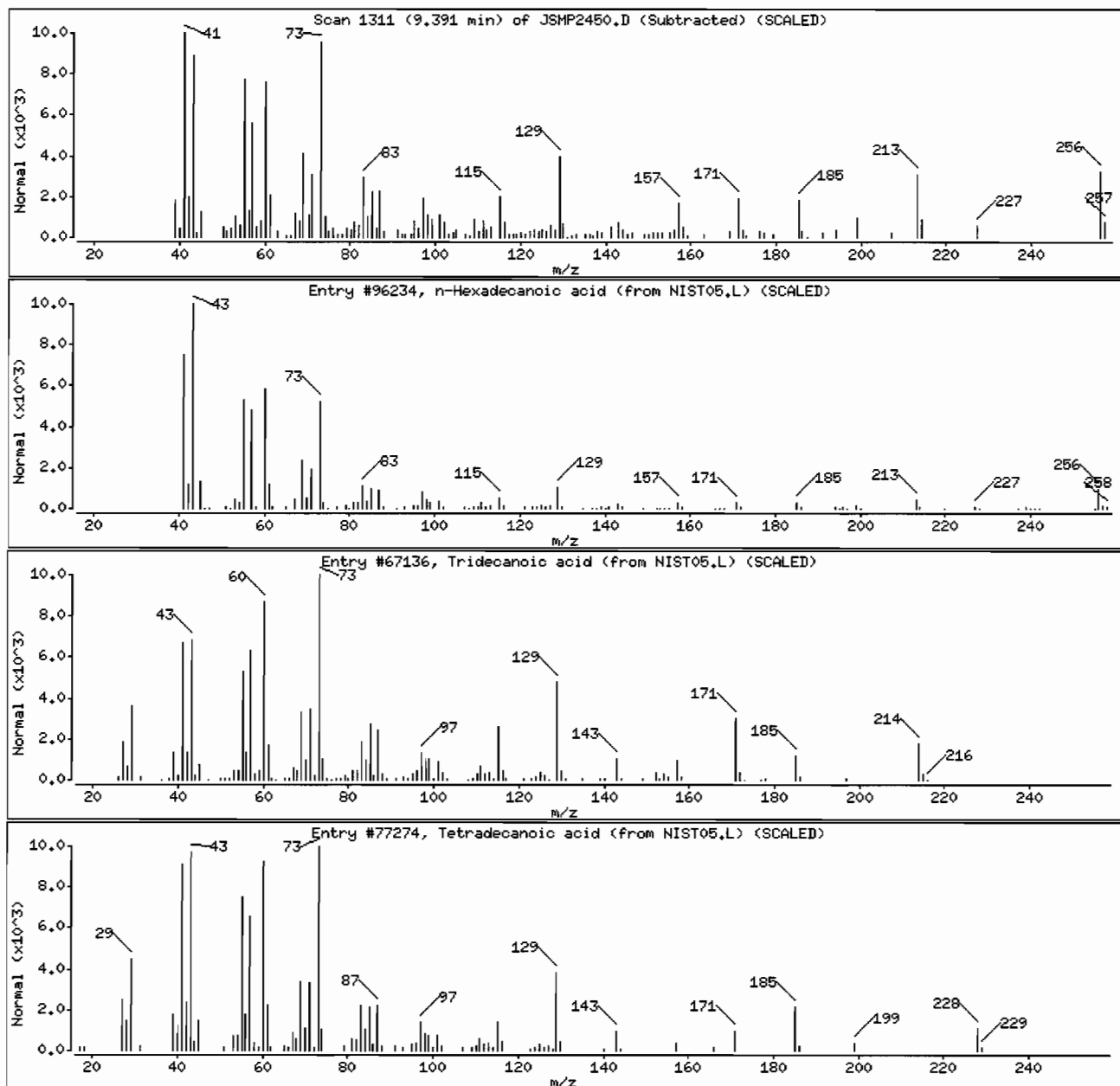
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	98	C16H32O2	256
Tridecanoic acid	638-53-9	NIST05.L	67136	97	C13H26O2	214
Tetradecanoic acid	544-63-8	NIST05.L	77274	74	C14H28O2	228



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LKNKE1AE

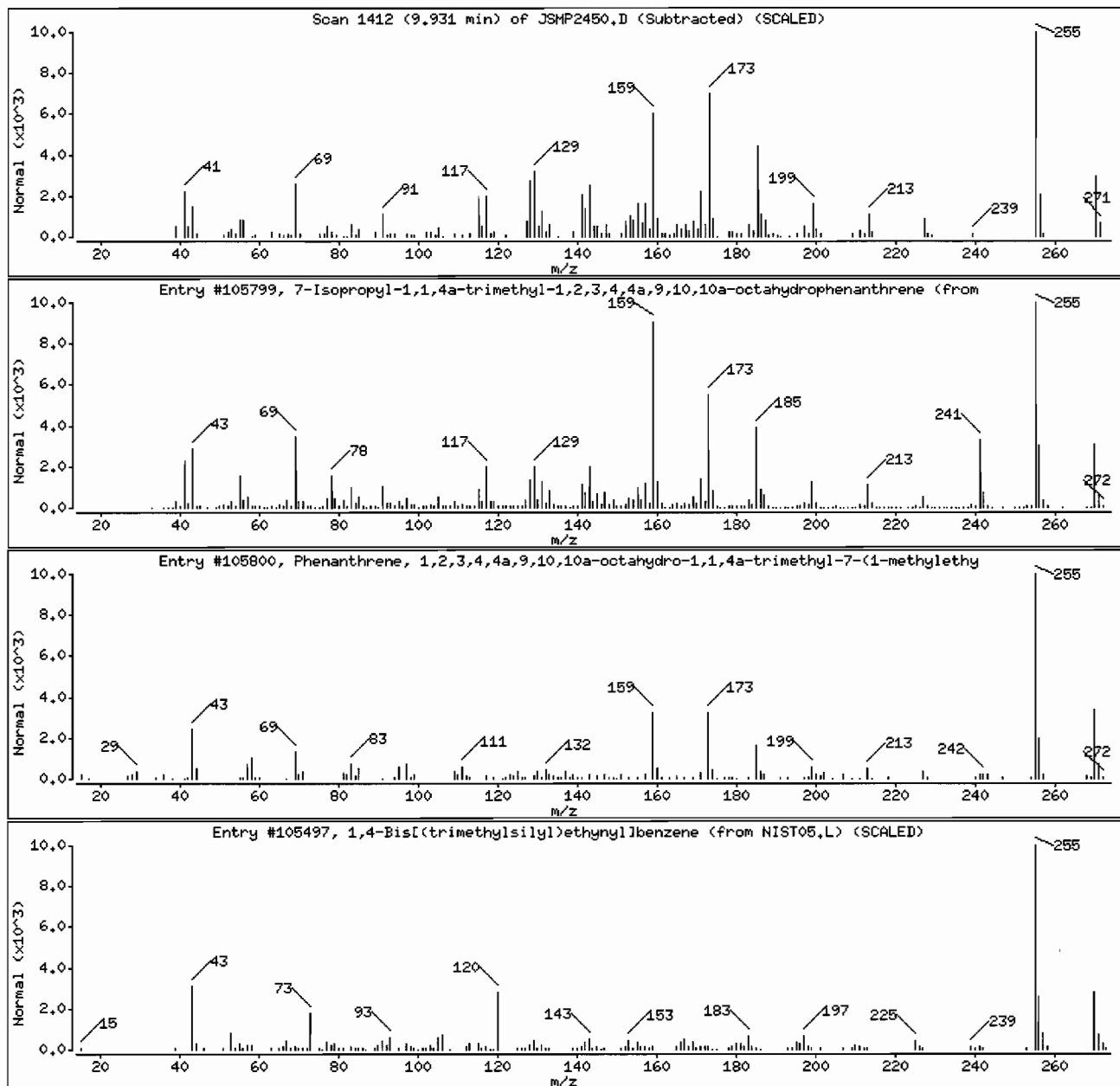
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,	1000210-28-9	NIST05.L	105799	60	C20H30	270
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	19407-28-4	NIST05.L	105800	49	C20H30	270
1,4-Bis[(trimethylsilyl)ethynyl]benzene	73392-23-1	NIST05.L	105497	38	C16H22Si2	270



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A.B\JSHP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

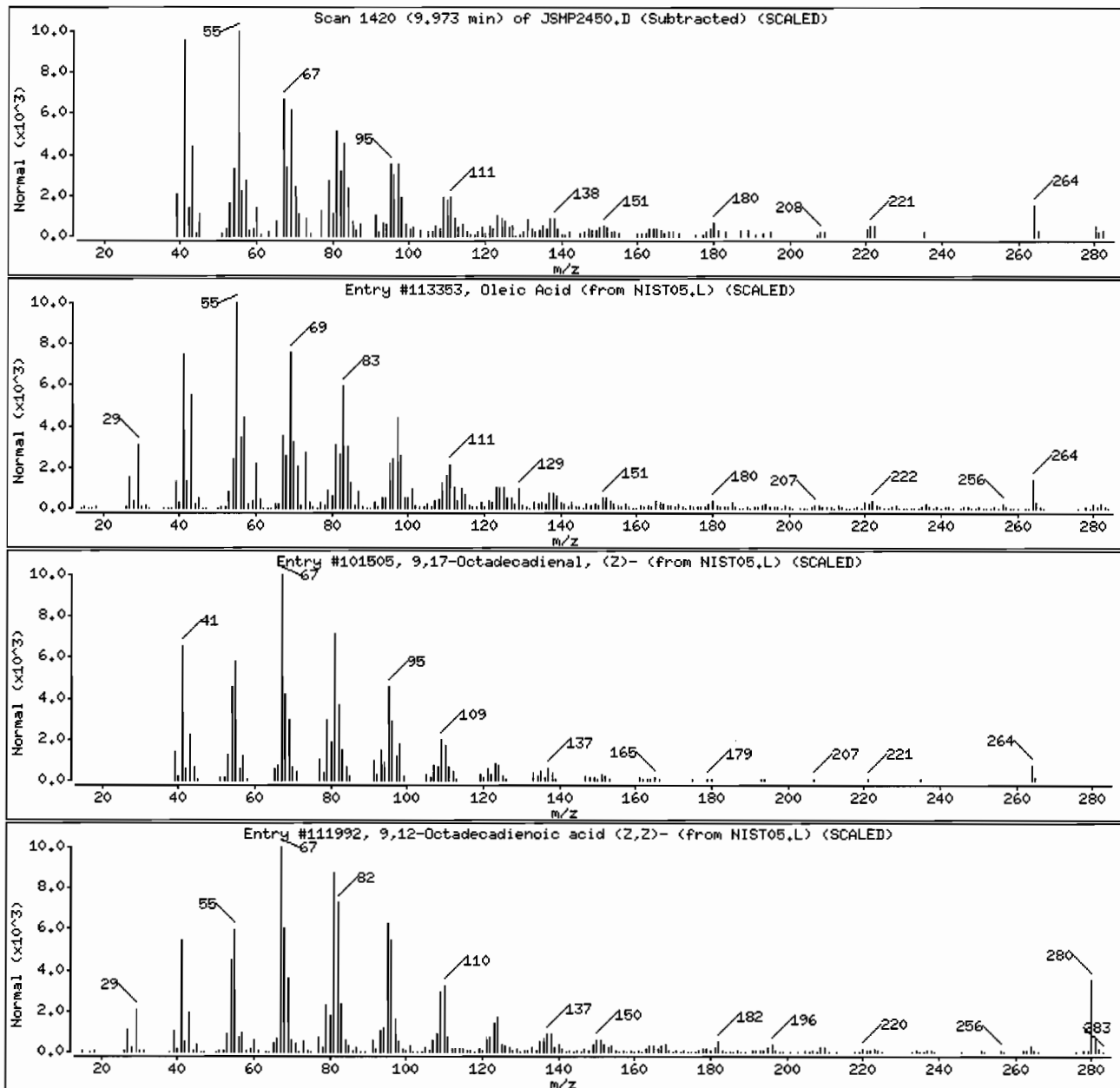
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Oleic Acid	112-80-1	NIST05.L	113353	92	C18H34O2	282
9,17-Octadecadienal, (Z)-	56554-35-9	NIST05.L	101505	91	C18H32O	264
9,12-Octadecadienoic acid (Z,Z)-	60-33-3	NIST05.L	111992	89	C18H32O2	280



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

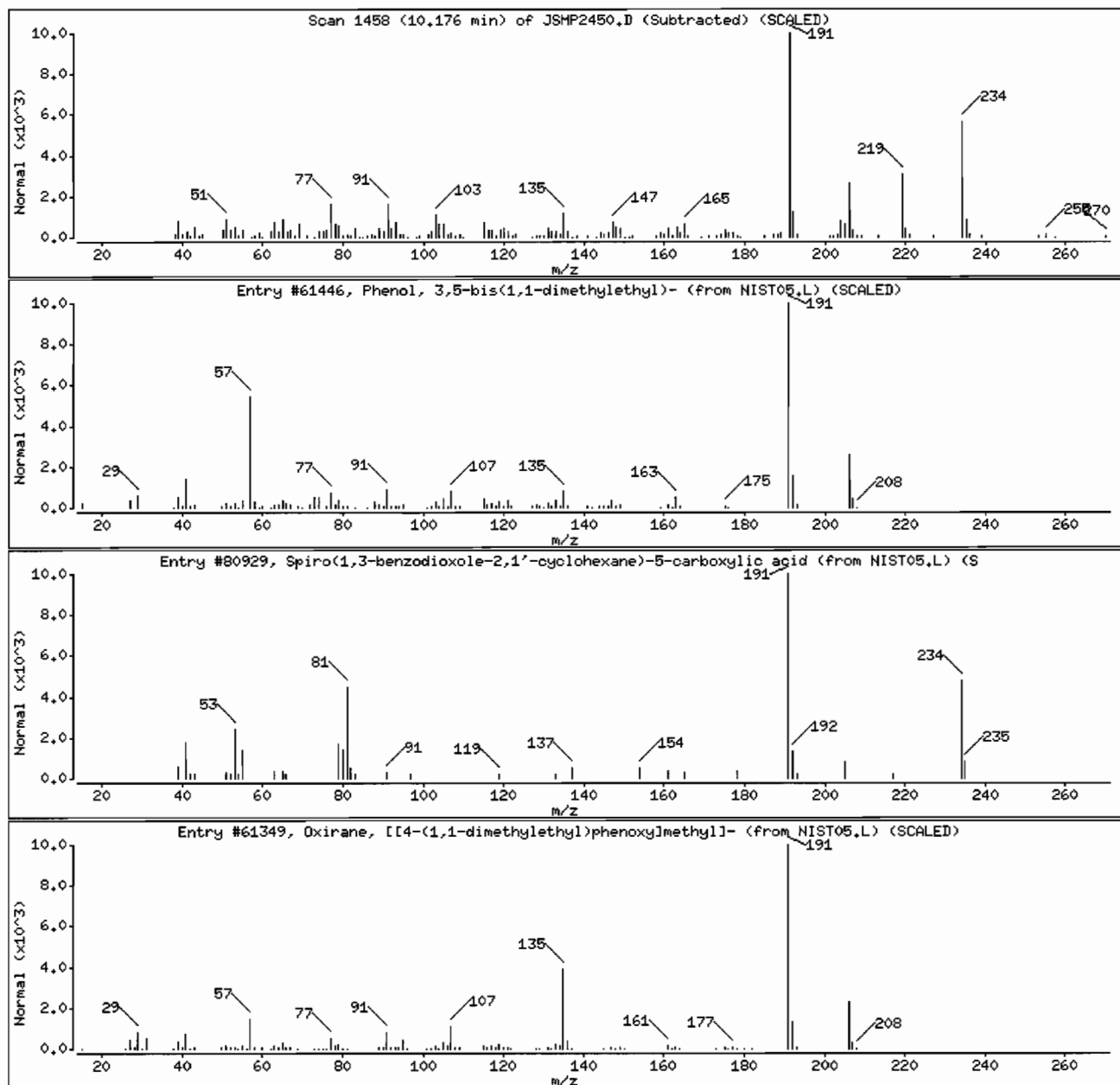
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 3,5-bis(1,1-dimethylethyl)-	1138-52-9	NIST05.L	61446	60	C14H22O	206
Spiro(1,3-benzodioxole-2,1'-cyclohexane)	56011-74-6	NIST05.L	80929	58	C13H14O4	234
Oxirane, [[4-(1,1-dimethylethyl)phenoxy]	3101-60-8	NIST05.L	61349	55	C13H18O2	206



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

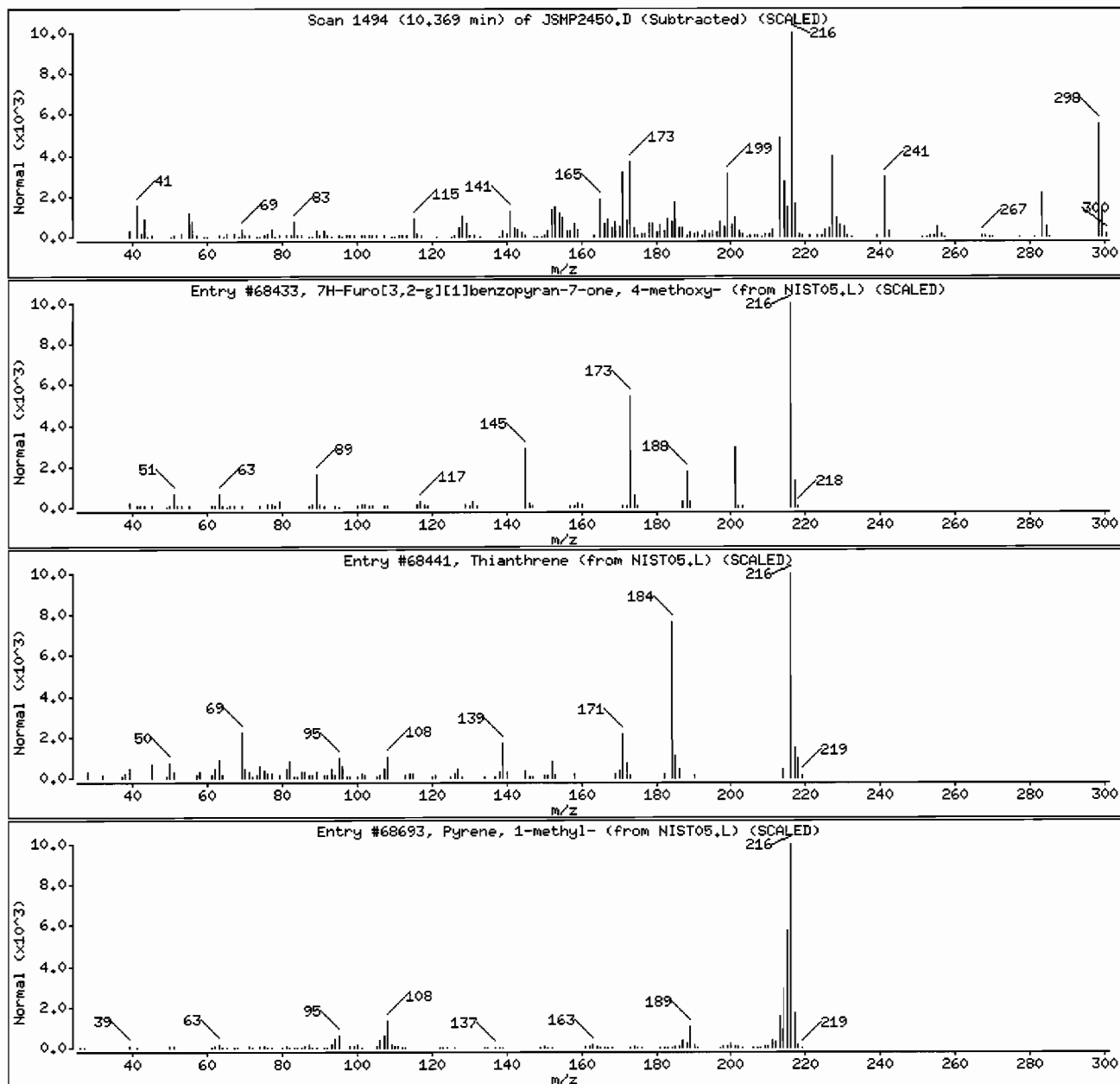
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7H-Furo[3,2-g][1]benzopyran-7-one, 4-met	484-20-8	NIST05.L	68433	18	C12H8O4	216
Thianthrene	92-85-3	NIST05.L	68441	18	C12H8S2	216
Pyrene, 1-methyl-	2381-21-7	NIST05.L	68693	14	C17H12	216





Data File: \\slsvr01\kna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

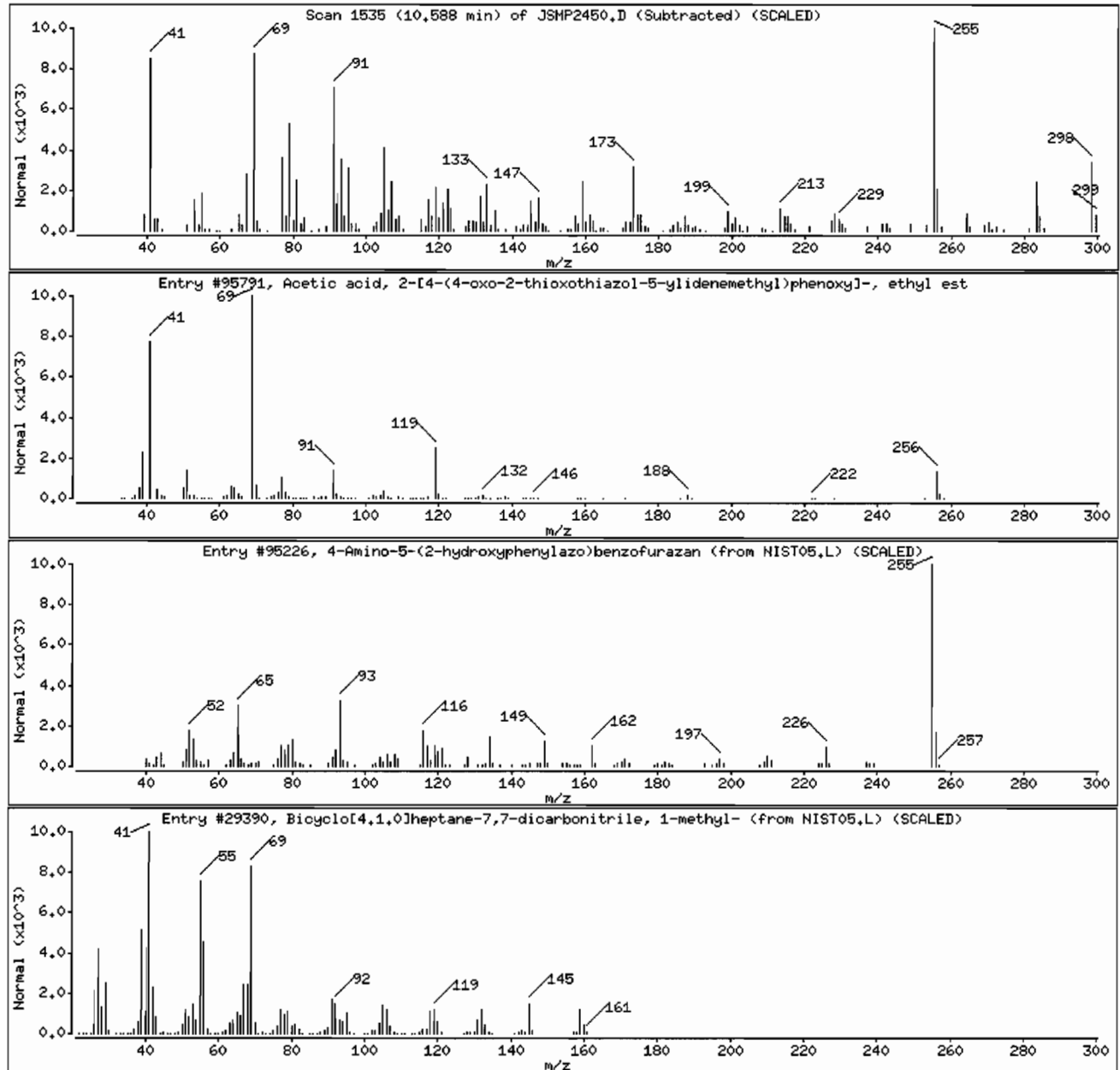
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetic acid, 2-[4-(4-oxo-2-thioxothiazol	1000265-00-3	NIST05.L	95791	22	C13H12N4O2	256
4-Amino-5-(2-hydroxyphenylazo)benzofuraz	166766-06-9	NIST05.L	95226	22	C12H9N5O2	255
Bicyclo[4.1.0]heptane-7,7-dicarbonitrile	74764-53-7	NIST05.L	29390	18	C10H12N2	160



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

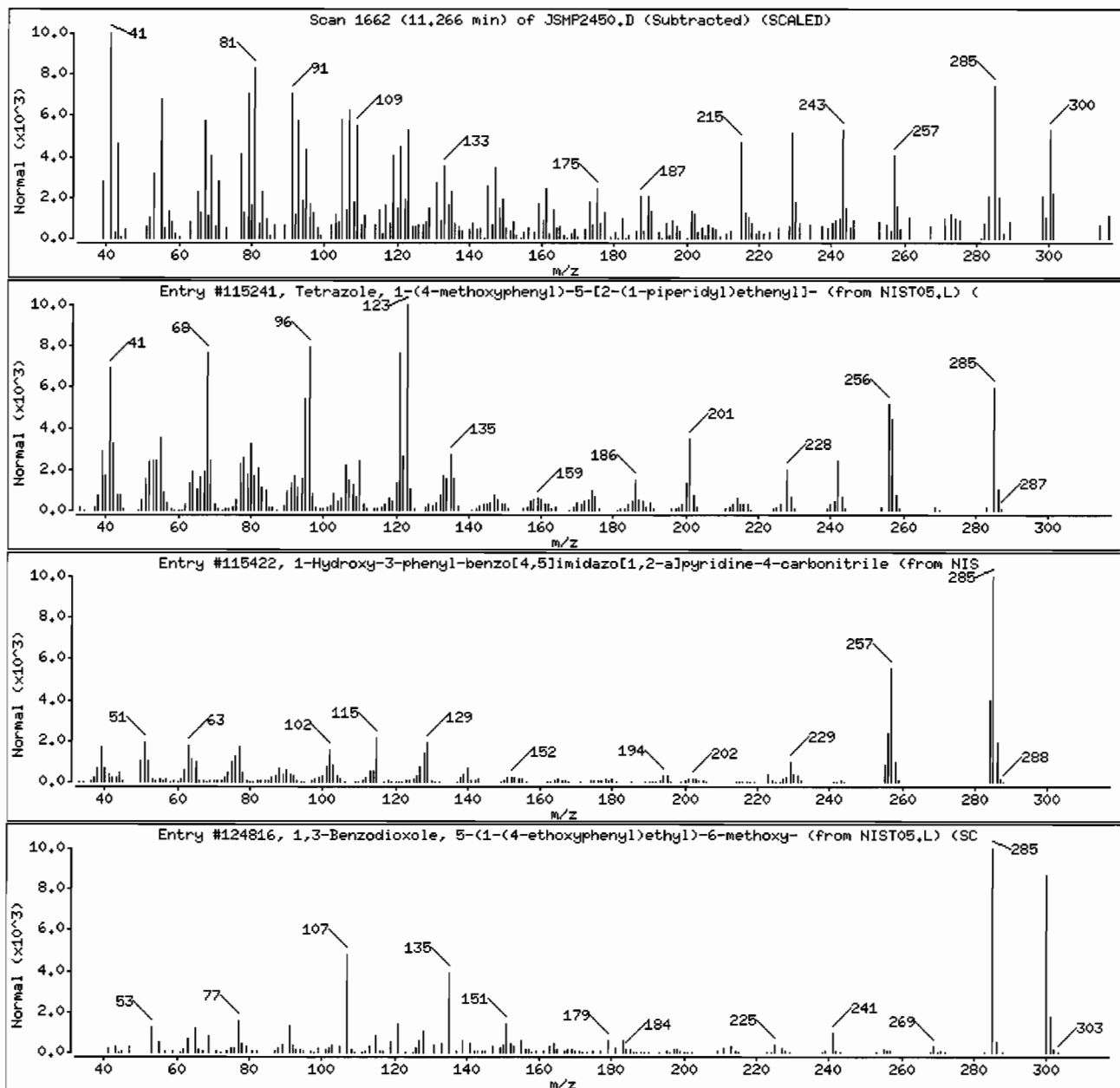
Volume Injected (uL): 1.0

Operator: JH/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetrazole, 1-(4-methoxyphenyl)-5-[2-(1-p	299462-74-1	NIST05.L	115241	41	C15H19N5O	285
1-Hydroxy-3-phenyl-benzo[4,5]imidazo[1,2	1000274-22-7	NIST05.L	115422	38	C18H11N3O	285
1,3-Benzodioxole, 5-(1-(4-ethoxyphenyl)e	90632-70-5	NIST05.L	124816	30	C18H20O4	300



Data File: \\slsvr01\lbnalab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

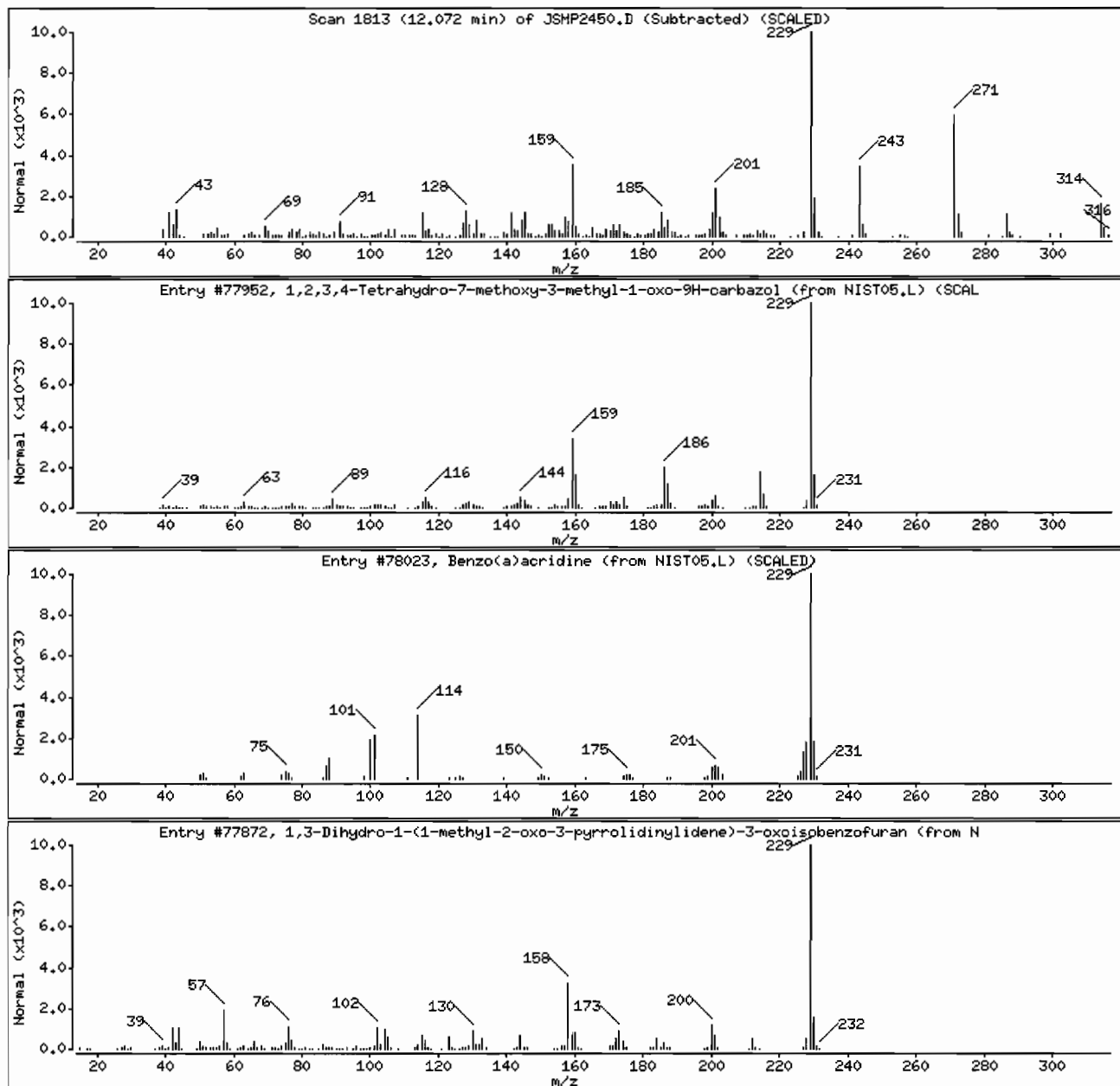
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-Benzo(a)acridine	32550-51-9	NIST05.L	77952	50	C14H15NO2	229
1,3-Dihydro-1-(1-methyl-2-oxo-3-pyrrolid	225-11-6	NIST05.L	78023	38	C17H11N	229
	3988-53-2	NIST05.L	77872	38	C13H11NO3	229



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

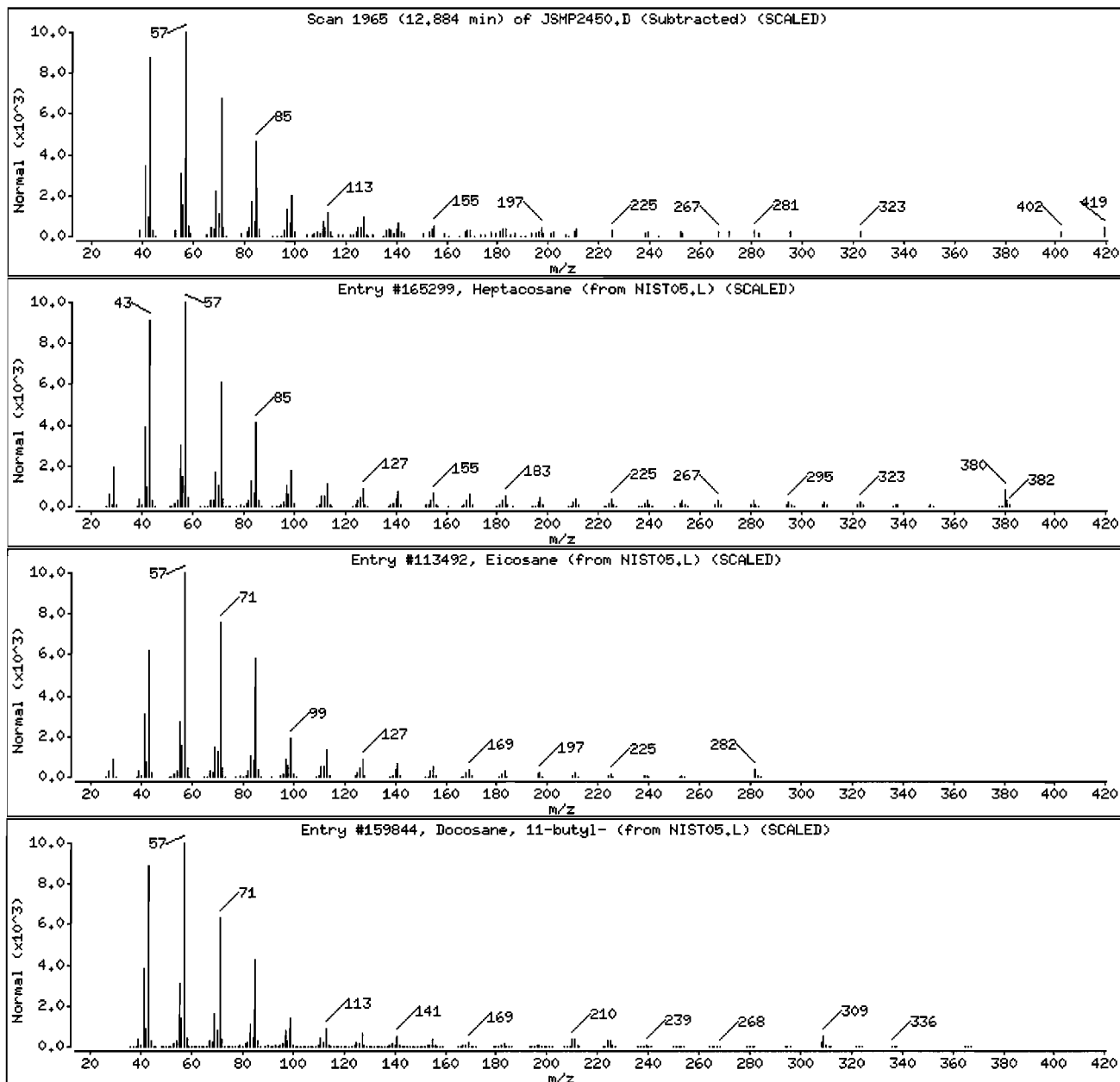
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptacosane	593-49-7	NIST05.L	165299	91	C <sub>27</sub> H <sub>56</sub>	380
Eicosane	112-95-8	NIST05.L	113492	90	C <sub>20</sub> H <sub>42</sub>	282
Docosane, 11-butyl-	13475-76-8	NIST05.L	159844	90	C <sub>26</sub> H <sub>54</sub>	366



Data File: \\slsvr01\\bna\_lab\\MSJ.i\\J100415A.B\\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXXKE1AE

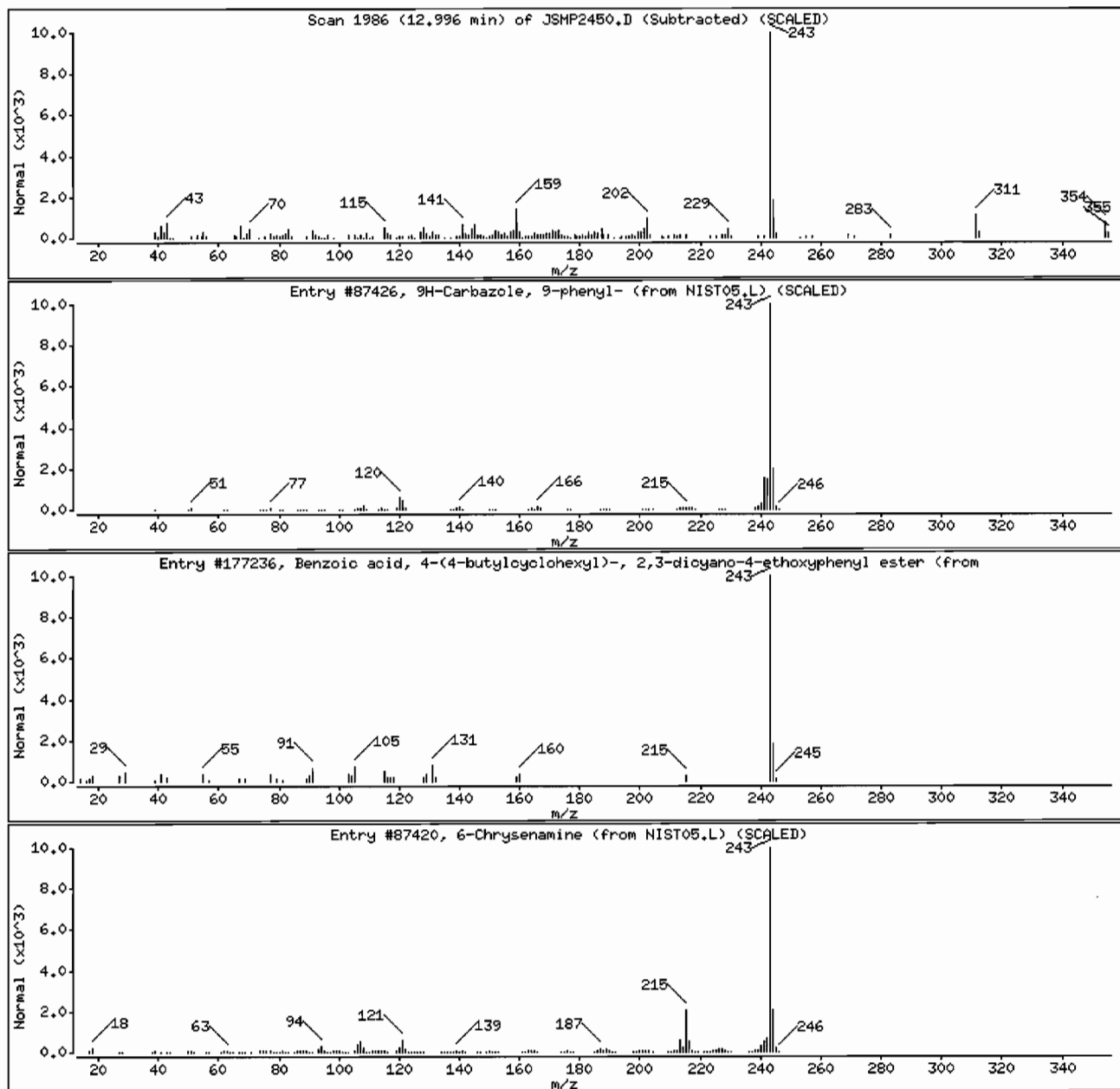
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9H-Carbazole, 9-phenyl-	1150-62-5	NIST05.L	87426	50	C18H13N	243
Benzoic acid, 4-(4-butylocyclohexyl)-, 2,	86377-40-4	NIST05.L	177236	50	C27H30N2O3	430
6-Chrysenamine	2642-98-0	NIST05.L	87420	50	C18H13N	243



Data File: \\slsvr01\lba\_lab\HSJ.i\J100415A.B\JSMP2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: HSJ.i

Sample Info: LXNKE1AE

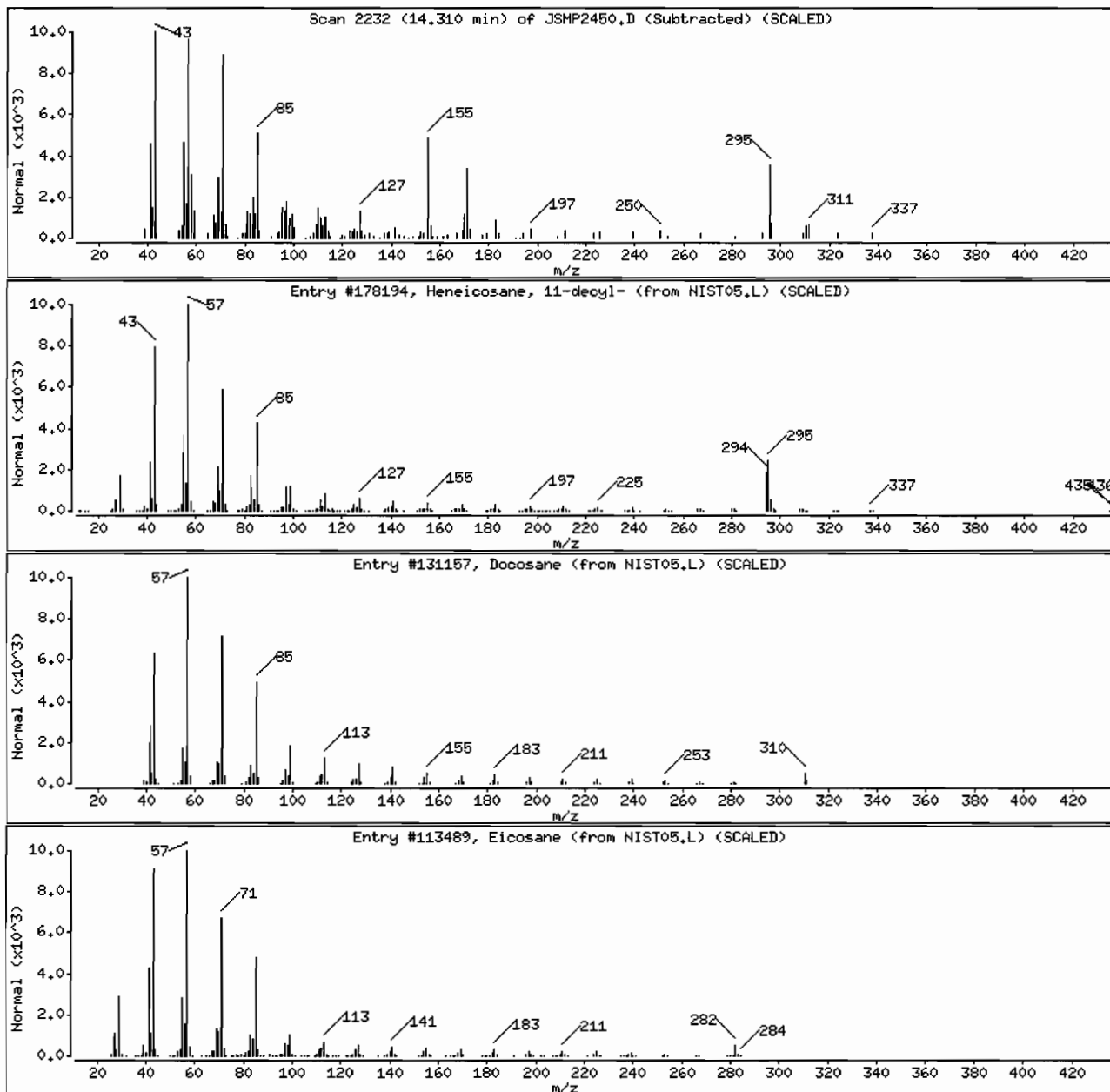
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heneicosane, 11-decyl-	55320-06-4	NIST05.L	178194	64	C31H64	437
Docosane	629-97-0	NIST05.L	131157	49	C22H46	310
Eicosane	112-95-8	NIST05.L	113489	49	C20H42	282



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2450.D

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Date: 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ,i

Sample Info: LXNKE1AE

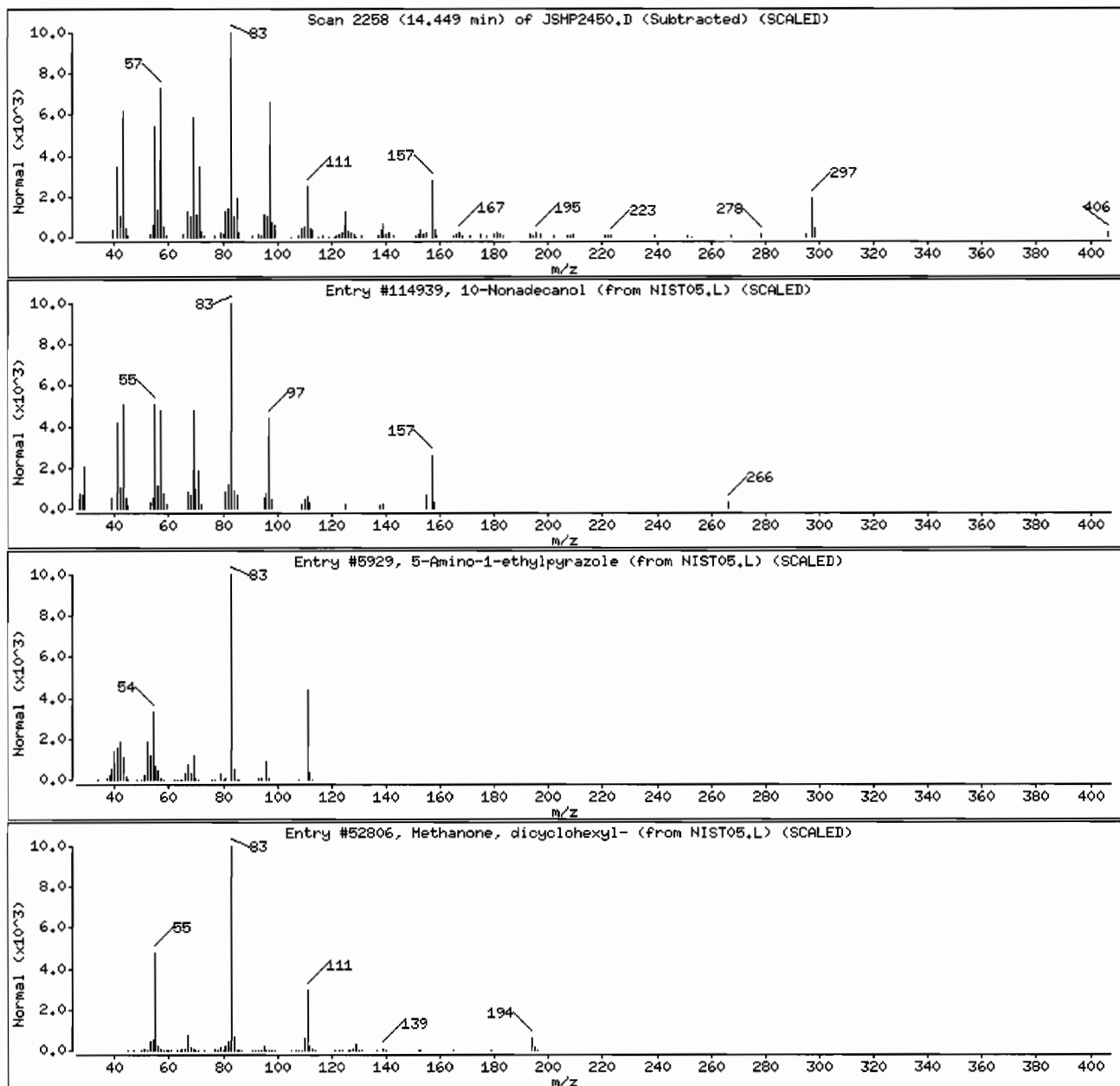
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
10-Nonadecanol	16840-84-9	NIST05.L	114939	68	C19H40O	284
5-Amino-1-ethylpyrazole	3528-58-3	NIST05.L	5929	43	C5H9N3	111
Methanone, dicyclohexyl-	119-60-8	NIST05.L	52806	38	C13H22O	194



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMF2450.D

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Date : 15-APR-2010 20:04

Client ID: RE12-10-15442

Instrument: MSJ.i

Sample Info: LXNKE1AE

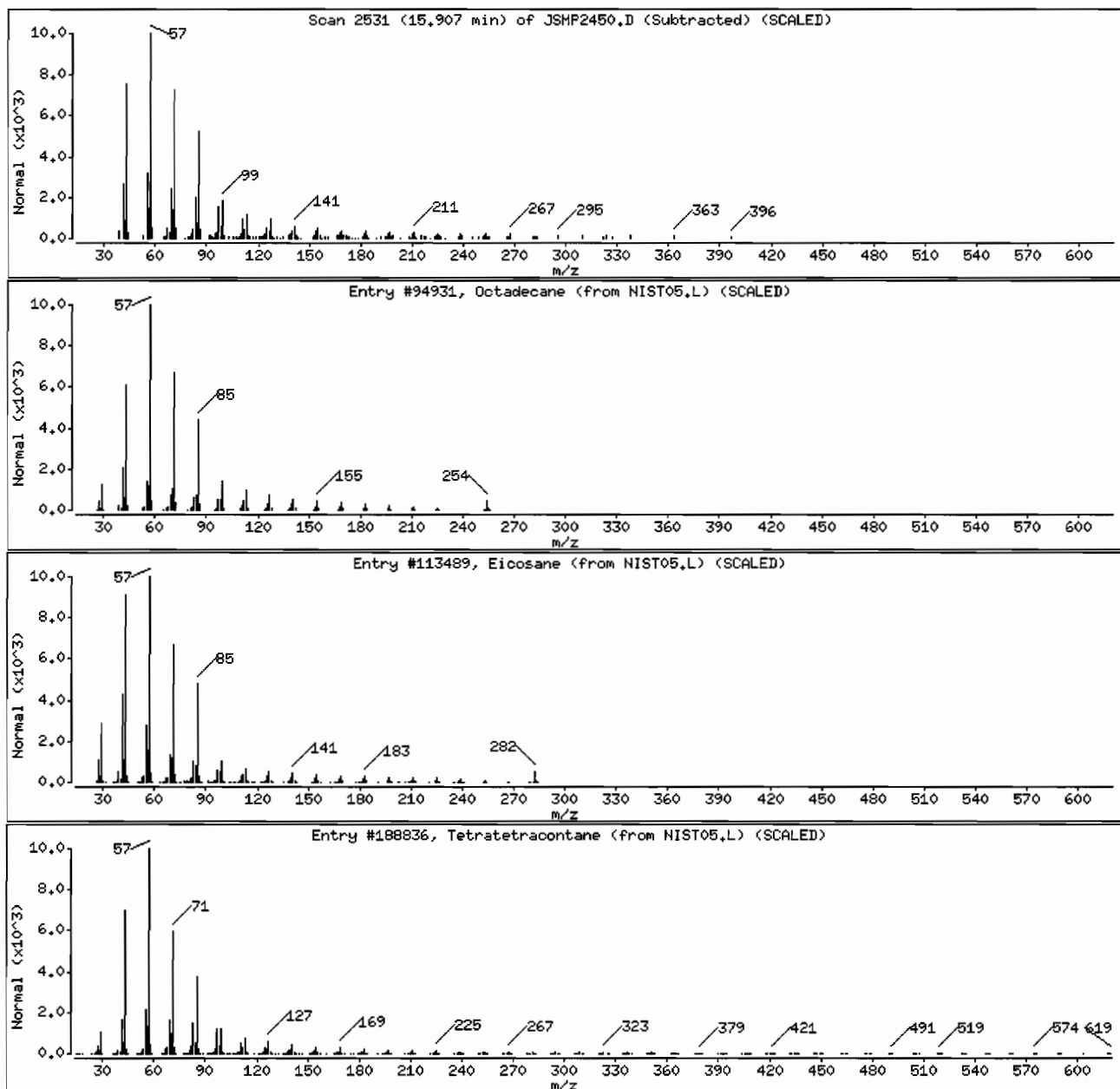
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	NIST05.L	94931	95	C18H38	254
Eicosane	112-95-8	NIST05.L	113489	95	C20H42	282
Tetratetracontane	7098-22-8	NIST05.L	188836	91	C44H90	619





Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Report Date: 16-Apr-2010 12:01

Page 1

TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Lab Smp Id: LXNKG1AE Client Smp ID: RE12-10-15448  
 Inj Date : 15-APR-2010 20:29  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKG1AE  
 Misc Info : F0D080489-004 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
\$ 10 2-Fluorophenol	112	4.557	4.549	(0.830)	153887	56.2054	1874
\$ 15 Phenol-d5	99	5.230	5.227	(0.952)	186554	53.2605	1775
* 22 1,4-Dichlorobenzene-d4	152	5.492	5.495	(1.000)	95470	40.0000	
\$ 36 Nitrobenzene-d5	82	5.925	5.927	(0.917)	130748	35.5459	1185
* 48 Naphthalene-d8	136	6.459	6.461	(1.000)	333014	40.0000	
\$ 69 2-Fluorobiphenyl	172	7.287	7.289	(0.929)	237228	34.3239	1144
* 82 Acenaphthene-d10	164	7.847	7.850	(1.000)	193618	40.0000	
\$ 104 2,4,6-Tribromophenol	330	8.488	8.491	(0.939)	70565	63.9579	2132
* 121 Phenanthrene-d10	188	9.039	9.041	(1.000)	381208	40.0000	
\$ 139 Terphenyl-d14	244	10.331	10.334	(0.902)	390687	45.9397	1531
* 153 Chrysene-d12	240	11.447	11.450	(1.000)	401331	40.0000	
* 166 Perylene-d12	264	13.776	13.779	(1.000)	228959	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Report Date: 16-Apr-2010 12:01

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Lab Smp Id: LXNKG1AE Client Smp ID: RE12-10-15448  
 Inj Date : 15-APR-2010 20:29  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKG1AE  
 Misc Info : F0D080489-004 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 22 1,4-Dichlorobenzene-d4	5.493	634391	40.000
* 82 Acenaphthene-d10	7.848	1145425	40.000
* 121 Phenanthrene-d10	9.039	1011596	40.000
* 153 Chrysene-d12	11.448	1179025	40.000
* 166 Perylene-d12	13.777	567919	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Unknown				CAS #:			
3.837	163181	10.2889595	343.0	0		0	22
Unknown Aldol Condensate				CAS #:			
4.296	3447435	217.369491	7246	0		0	22

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Report Date: 16-Apr-2010 12:01

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RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
----	----	-----	-----	----	-----	-----	-----
Unknown					CAS #:		
7.325	133633	4.66667292	155.6	0		0	82
Unknown					CAS #:		
7.426	242280	8.46077900	282.0	0		0	82
Unknown					CAS #:		
7.490	809495	28.2688007	942.3	0		0	82
Unknown					CAS #:		
7.533	5188322	181.184140	6039	0		0	82
1H-3a,7-Methanoazulene, octahydro-3,8,8-					CAS #: 546-28-1		
7.592	146274	5.10810696	170.3	93	NIST05.L	60040	82
Unknown					CAS #:		
7.736	549025	19.1727818	639.1	0		0	82
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex					CAS #: 469-61-4		
7.757	228465	7.97833273	265.9	90	NIST05.L	60056	82
Unknown					CAS #:		
8.307	290322	10.1384796	337.9	0		0	82
Unknown					CAS #:		
8.361	4230667	147.741350	4925	0		0	82
Unknown					CAS #:		
8.414	177067	6.18346624	206.1	0		0	82
Unknown					CAS #:		
8.692	585194	23.1393963	771.3	0		0	121
Unknown					CAS #:		
9.189	144785	5.72499020	190.8	0		0	121
n-Hexadecanoic acid					CAS #: 57-10-3		
9.386	300898	11.8979339	396.6	97	NIST05.L	96235	121
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy					CAS #: 19407-28-4		
9.926	127997	5.06120297	168.7	93	NIST05.L	105800	121
Unknown					CAS #:		
10.118	105490	4.17122216	139.0	0		0	121
Unknown					CAS #:		
10.583	382661	12.9822770	432.7	0		0	153
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
10.743	7089782	240.530146	8018	98	NIST05.L	116239	153
Unknown					CAS #:		
11.074	126671	4.29747232	143.2	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
Report Date: 16-Apr-2010 12:01

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RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
11.282	143851	4.88033299	162.7	0		0	153
Unknown					CAS #:		
11.336	131972	4.47733261	149.2	0		0	153
2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-he					CAS #: 6755-93-7		
11.603	193297	6.55785254	218.6	95	NIST05.L	125032	153
Unknown					CAS #:		
12.057	817492	27.7344839	924.5	0		0	153
Unknown					CAS #:		
12.986	329875	23.2339125	774.5	0		0	166

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D  
 Report Date: 16-Apr-2010 12:01

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JSMP2451.D  
 Lab Smp Id: LXNKG1AE  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-004 (0100038) SON

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: RE12-10-15448  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	95470	-6.61
48 Naphthalene-d8	360526	180263	721052	333014	-7.63
82 Acenaphthene-d10	206190	103095	412380	193618	-6.10
121 Phenanthrene-d10	415780	207890	831560	381208	-8.31
153 Chrysene-d12	446285	223143	892570	401331	-10.07
166 Perylene-d12	410994	205497	821988	228959	-44.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.05
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	-0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.03
153 Chrysene-d12	11.45	10.95	11.95	11.45	-0.02
166 Perylene-d12	13.78	13.28	14.28	13.78	-0.02

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: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHF2451.D

Date: 15-APR-2010 20:29

Client ID: RE12-10-15448

Sample Info: LMKC1AE

Volume Injected (uL): 1.0

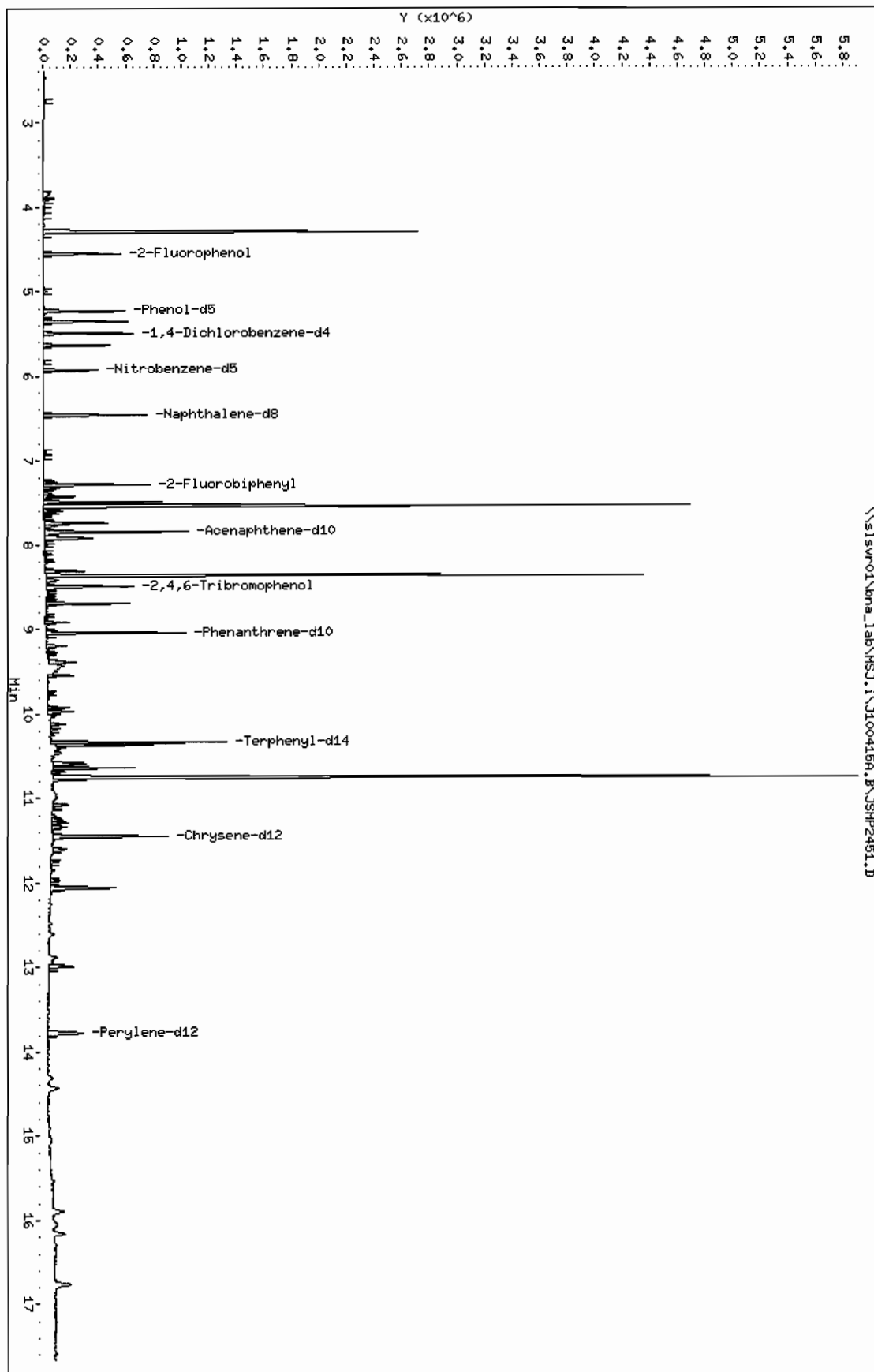
Column phase:

Instrument: MSJ.i

Operator: JM/HAK

Column diameter: 2.00

Page 1



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHF2451.D

Page 1

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

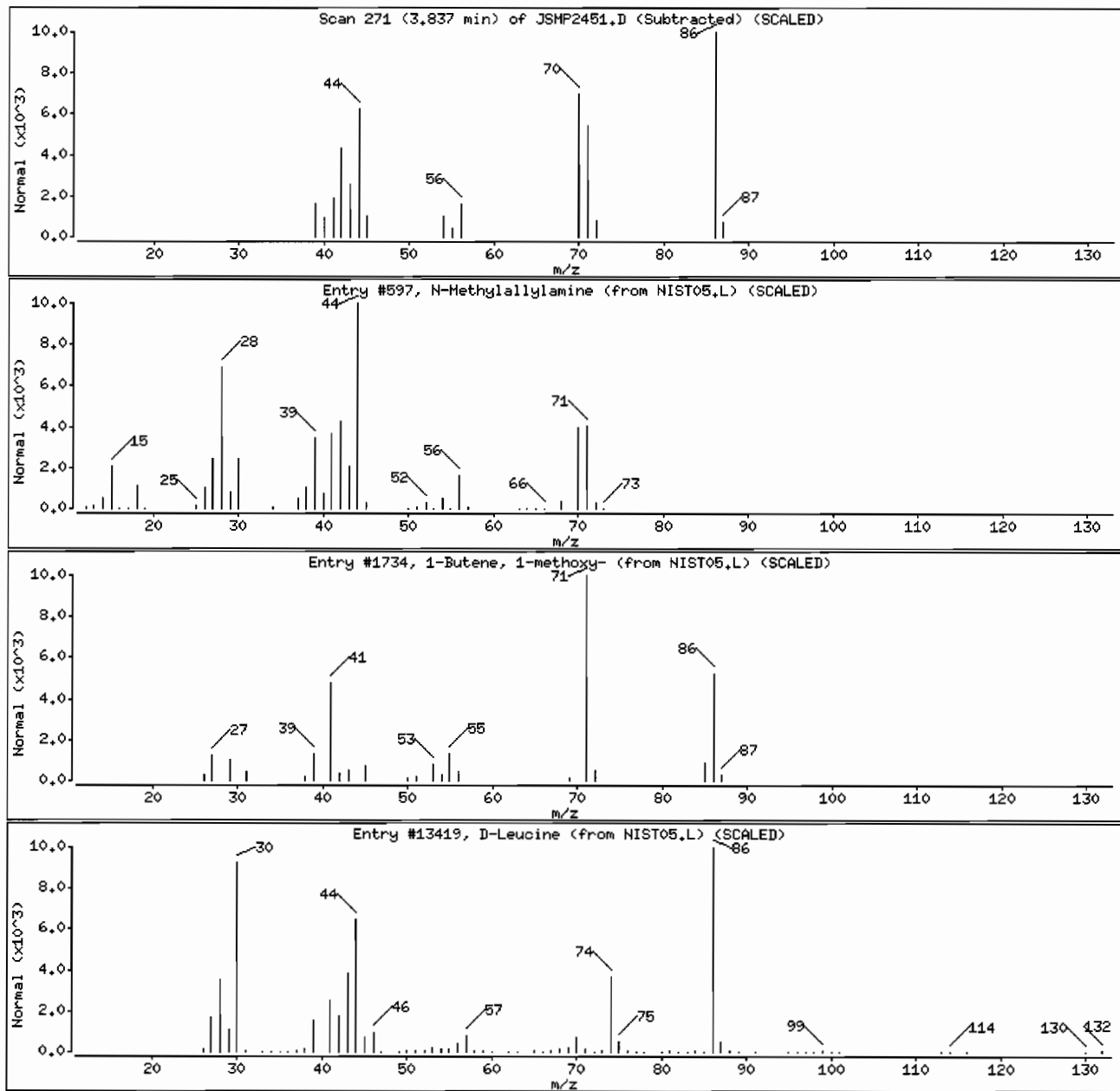
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
N-Methylallylamine	627-37-2	NIST05.L	597	43	C4H9N	71
1-Butene, 1-methoxy-	29512-02-5	NIST05.L	1734	25	C5H10O	86
D-Leucine	328-38-1	NIST05.L	13419	25	C6H13NO2	131



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2451.D

Page 2

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

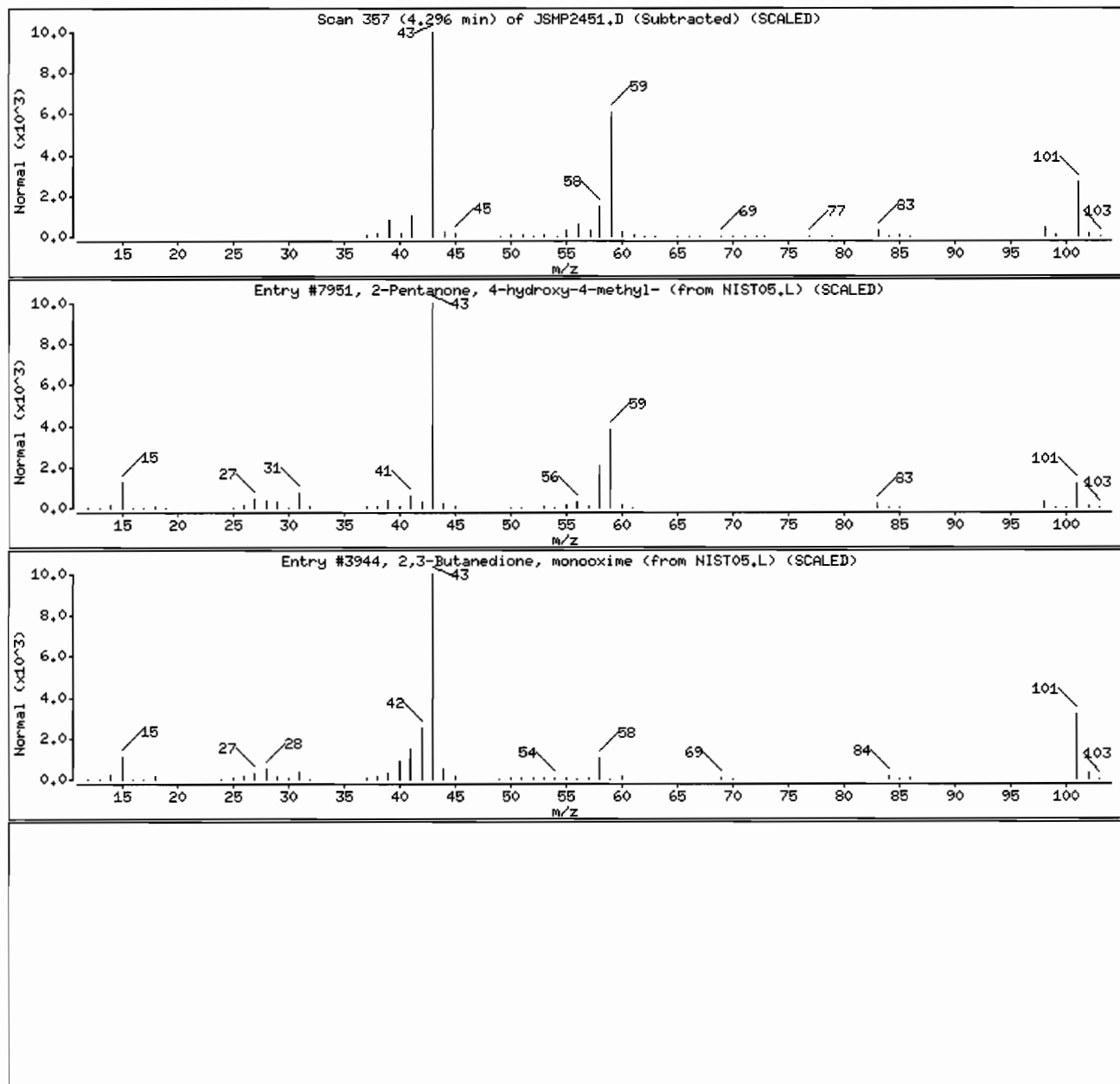
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101





Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2451.D

Page 3

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

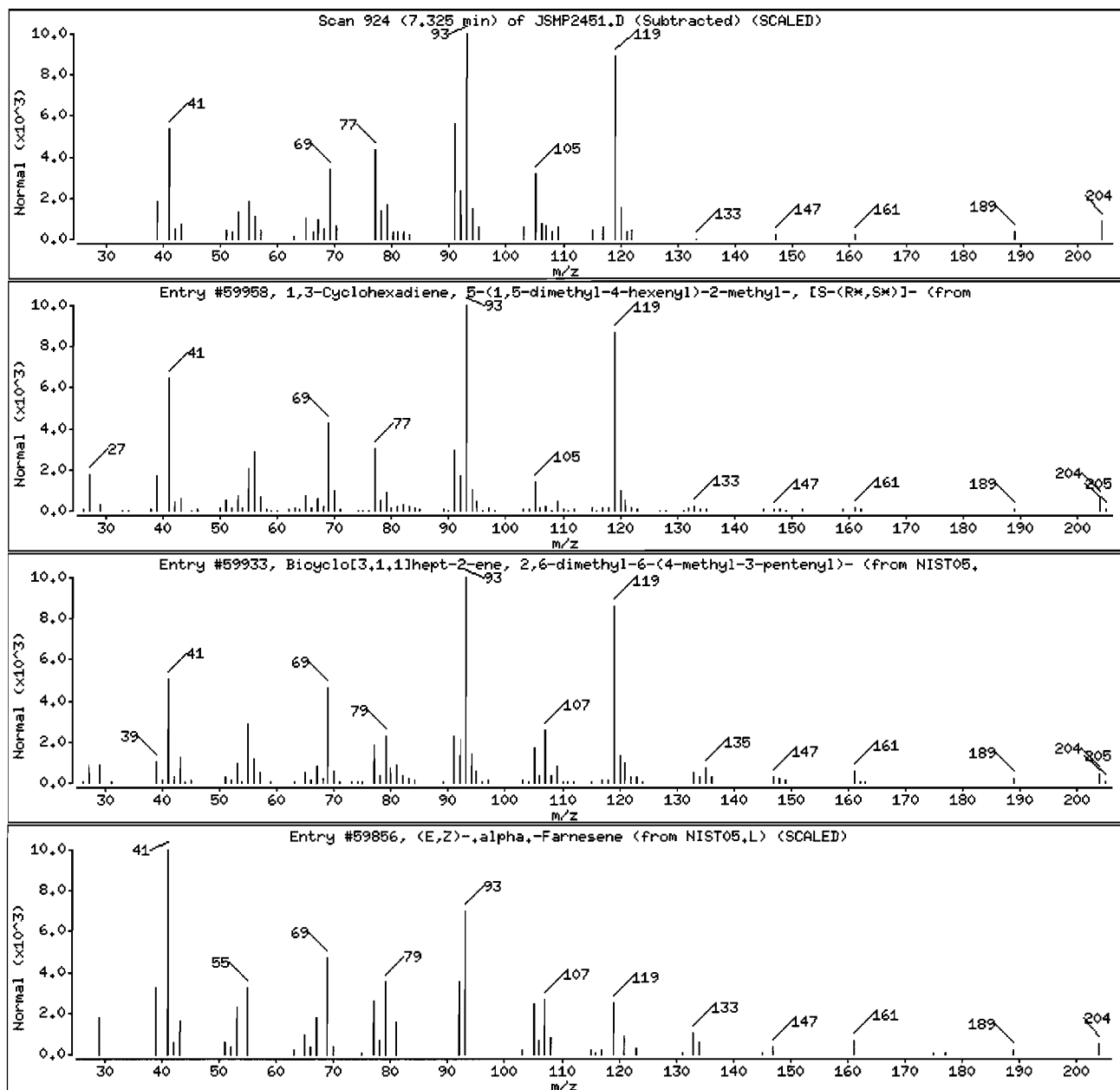
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Cyclohexadiene, 5-(1,5-dimethyl-4-he	495-60-3	NIST05.L	59958	86	C15H24	204
Bicyclo[3.1.1]hept-2-ene, 2,6-dimethyl-6	17699-05-7	NIST05.L	59933	68	C15H24	204
(E,Z)-,alpha,-Farnesene	1000293-03-2	NIST05.L	59856	47	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

Page 4

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

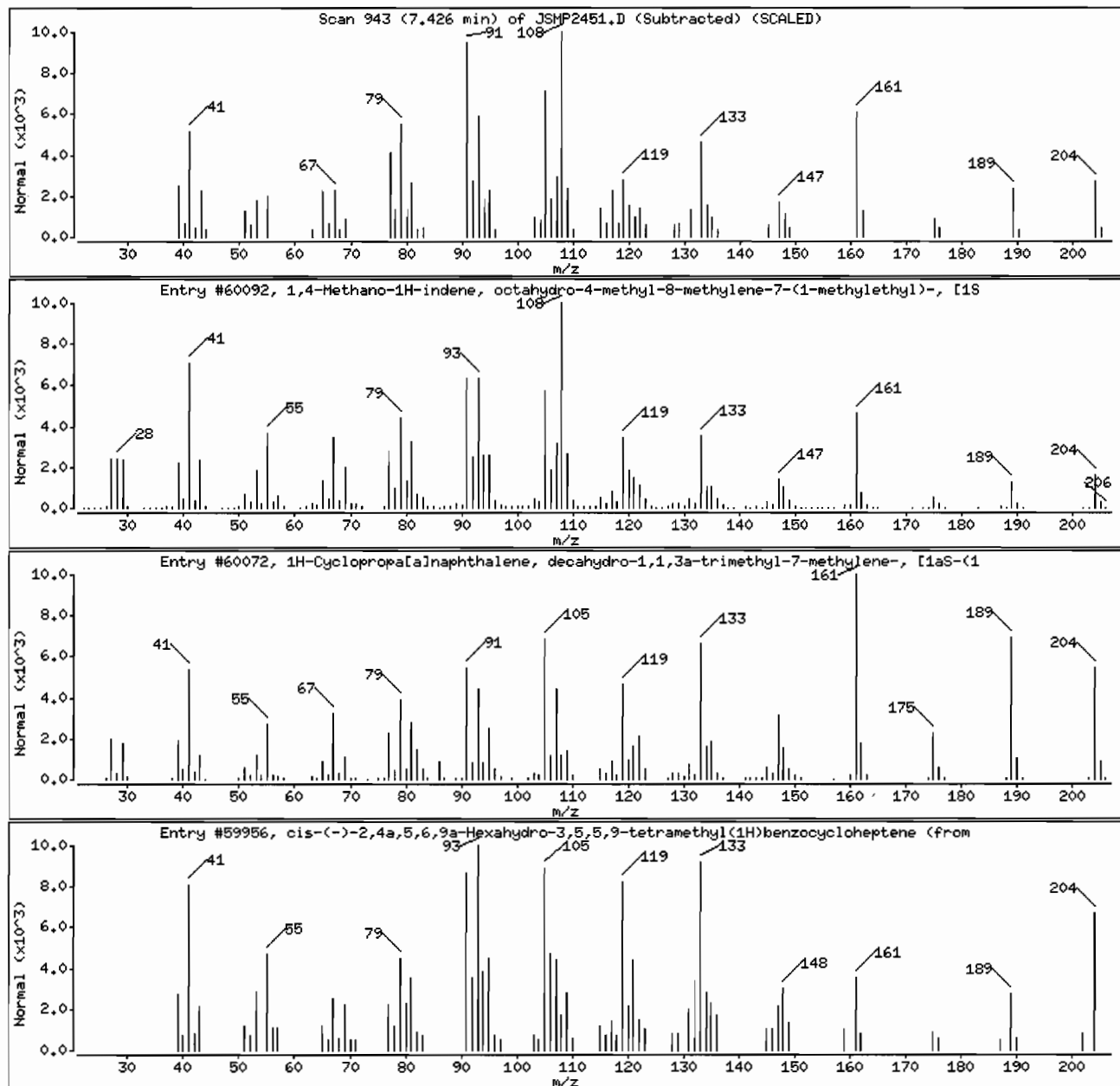
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methano-1H-indene, octahydro-4-methy	3650-28-0	NIST05.L	60092	98	C15H24	204
1H-Cyclopropa[1,4]naphthalene, decahydro-1	20071-49-2	NIST05.L	60072	95	C15H24	204
cis-(-)-2,4a,5,6,9a-Hexahydro-3,5,5,9-te	1000104-20-1	NIST05.L	59956	83	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

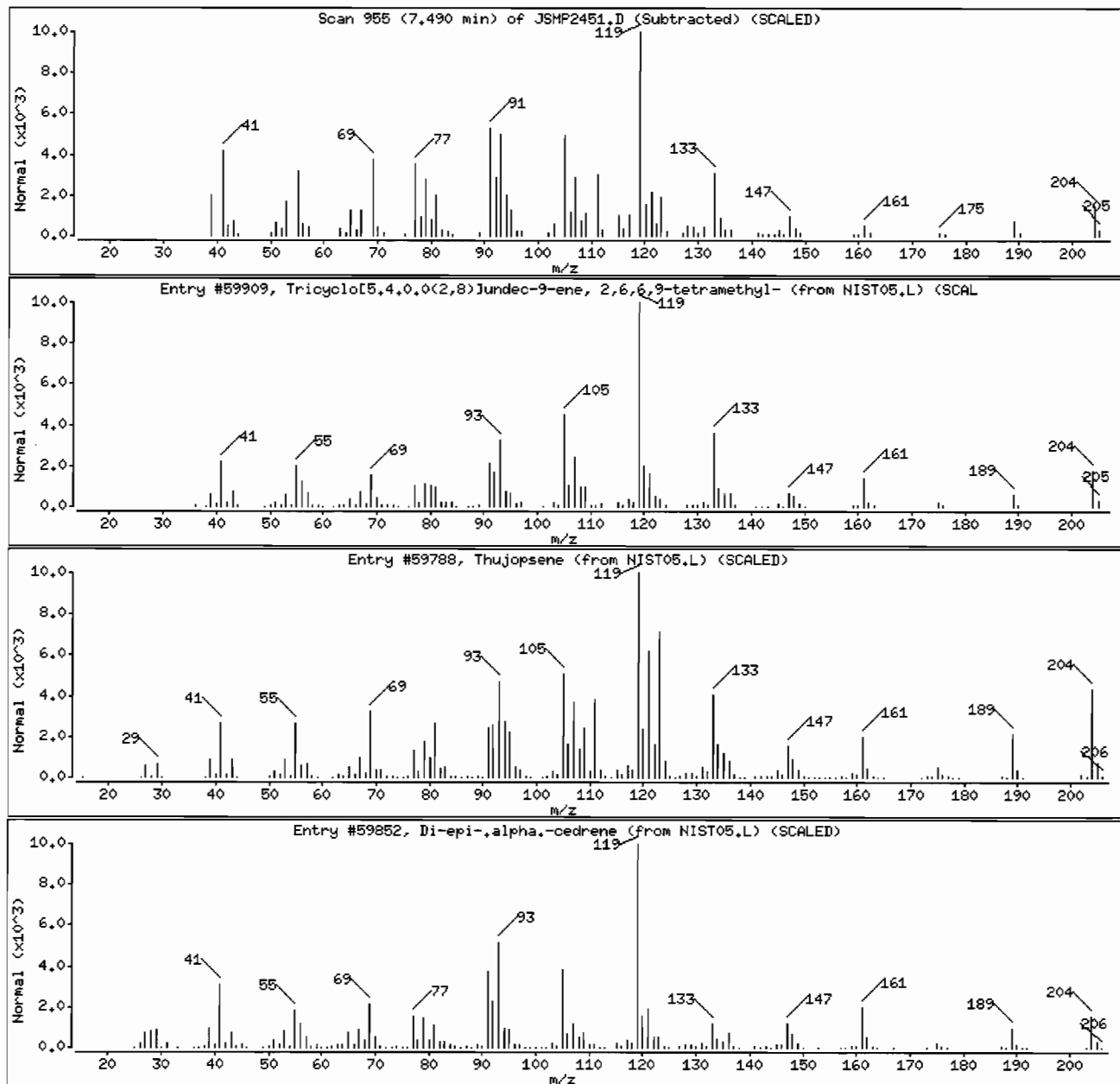
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59909	89	C15H24	204
Thujopsene	470-40-6	NIST05.L	59788	87	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	62	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSP2451.D

Page 6

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

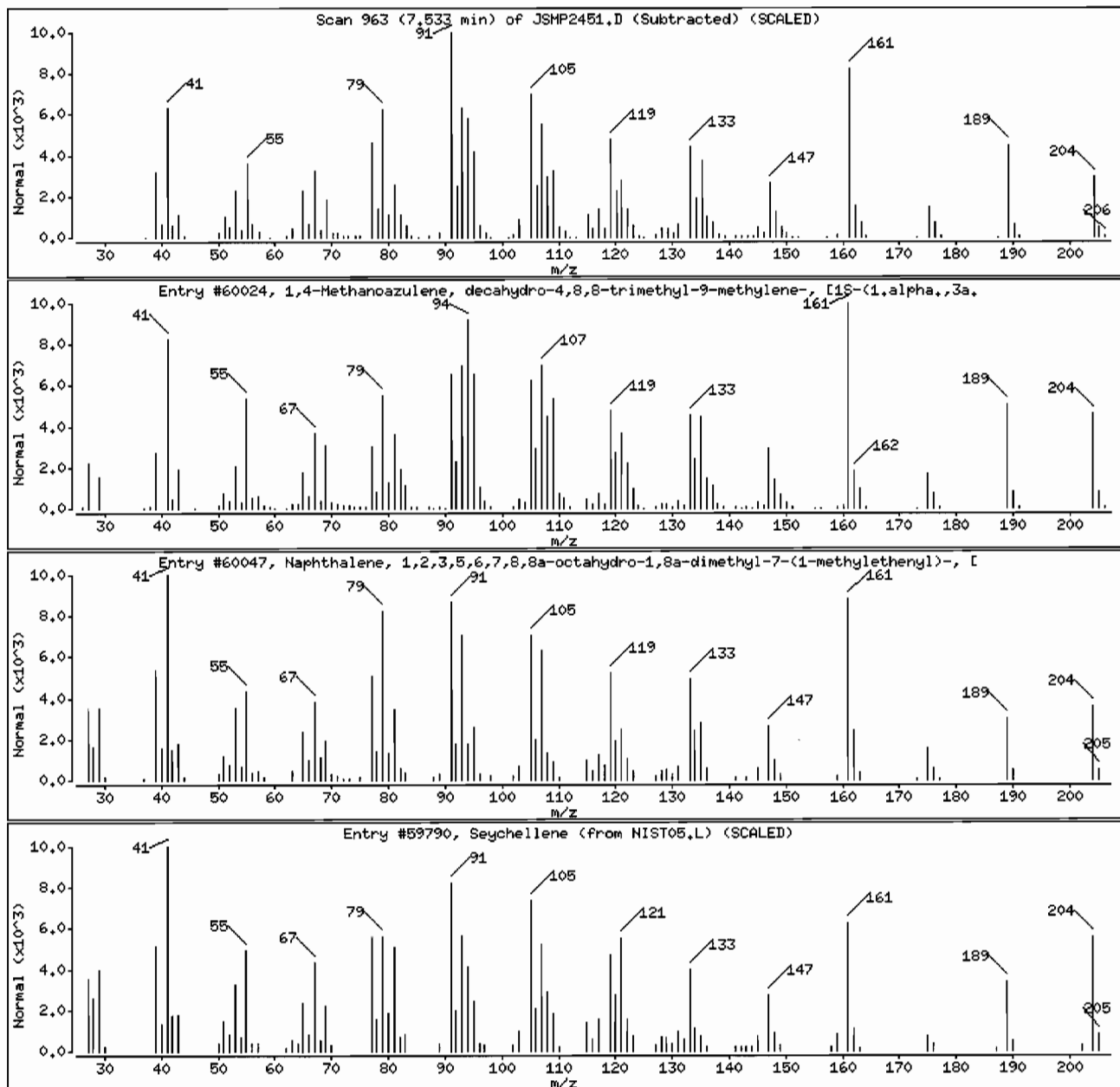
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60024	99	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60047	98	C15H24	204
Seychellene	20085-93-2	NIST05.L	59790	92	C15H24	204



Data File: \\slsvr01\\bna\_lab\\MSJ.i\\J100415A.B\\JSPM2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

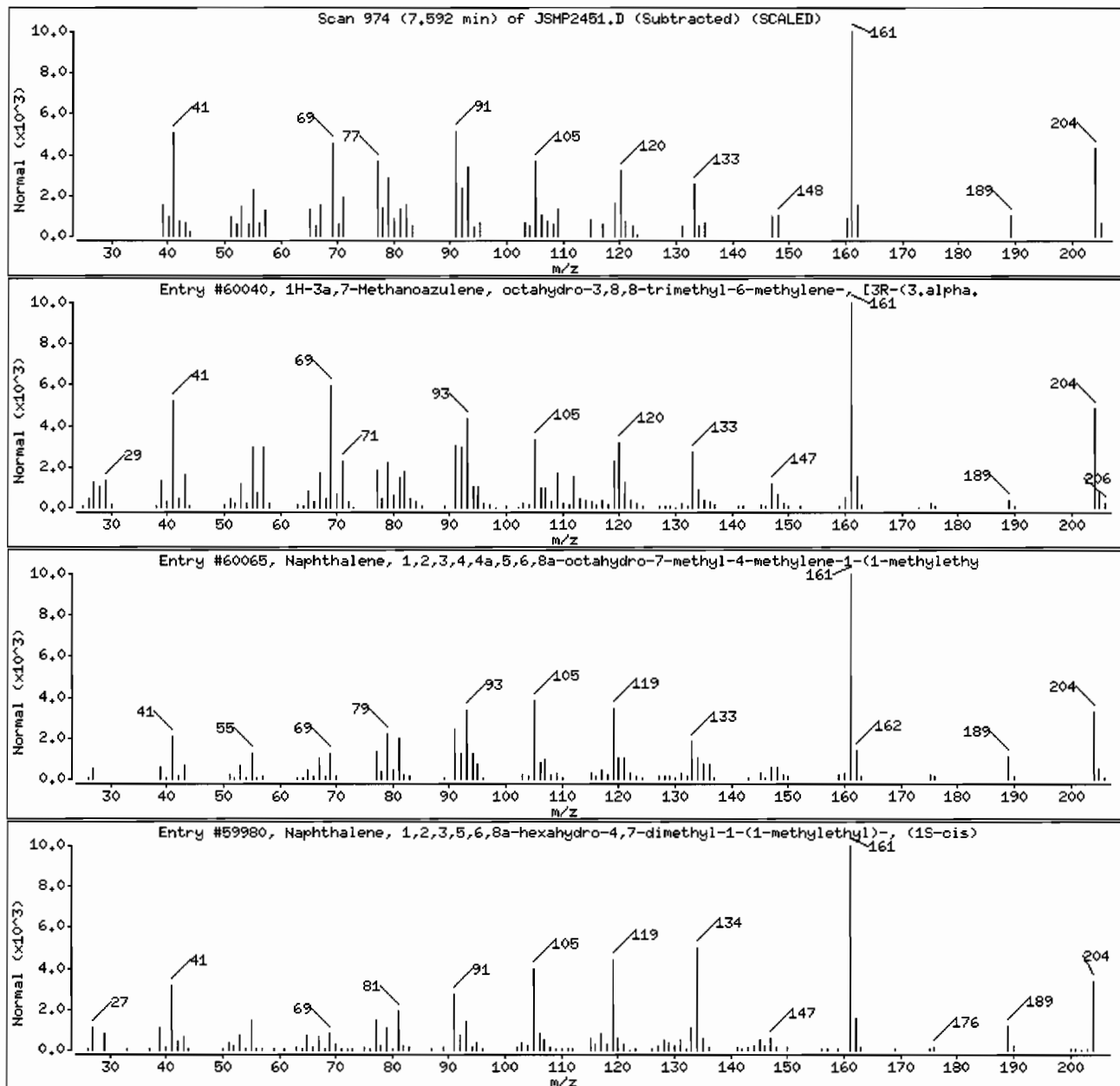
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-3a,7-Methanoazulene, octahydro-3,8,8-	546-28-1	NIST05.L	60040	93	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	30021-74-0	NIST05.L	60065	81	C15H24	204
Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-	483-76-1	NIST05.L	59980	70	C15H24	204



Data File: \\slsvr01\kna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

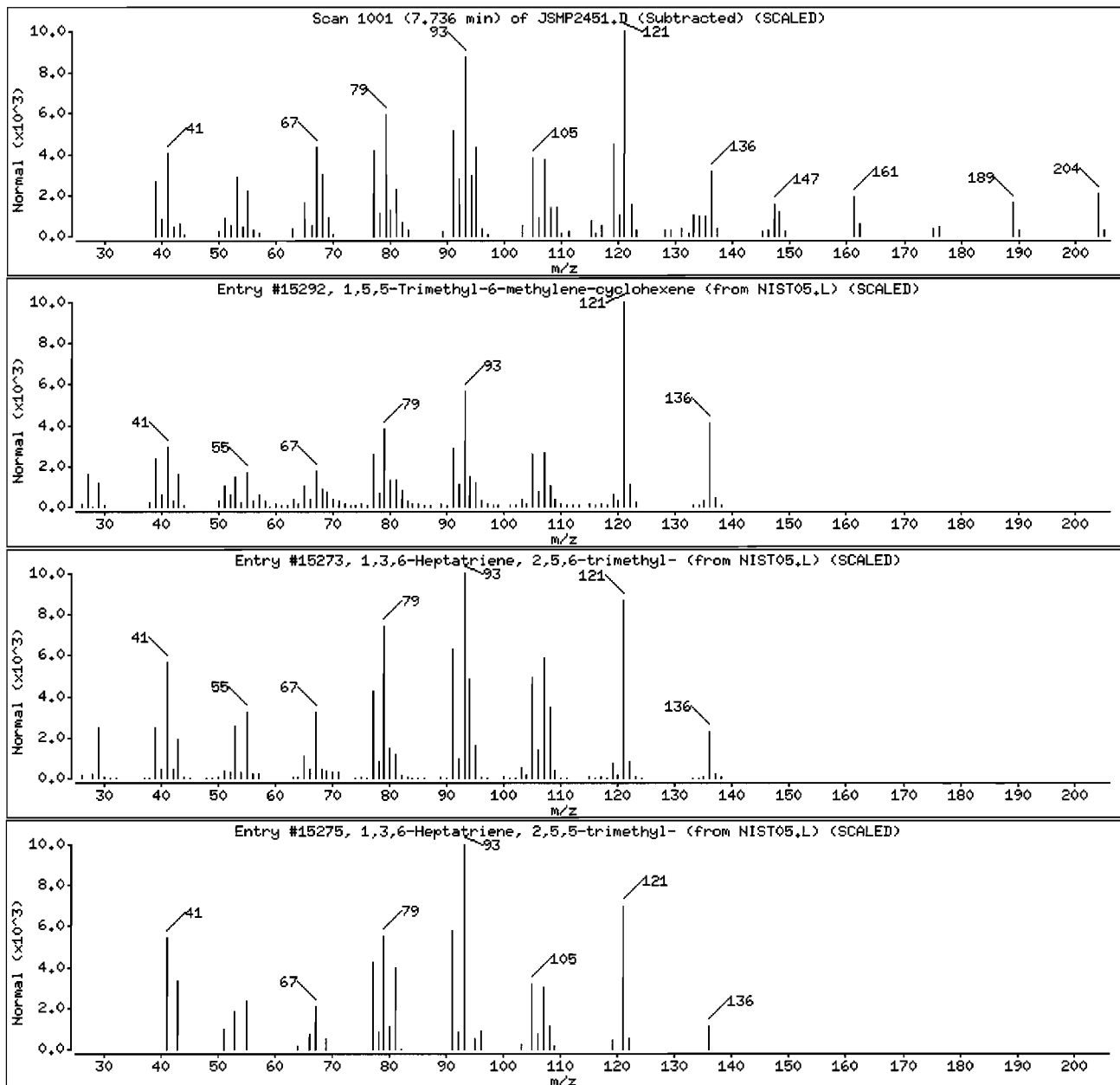
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	89	C10H16	136
1,3,6-Heptatriene, 2,5,6-trimethyl-	42123-66-0	NIST05.L	15273	86	C10H16	136
1,3,6-Heptatriene, 2,5,5-trimethyl-	29548-02-5	NIST05.L	15275	83	C10H16	136



Data File: \\slsvr01\\bna\_lab\\MSJ.i\\J100415A.B\\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

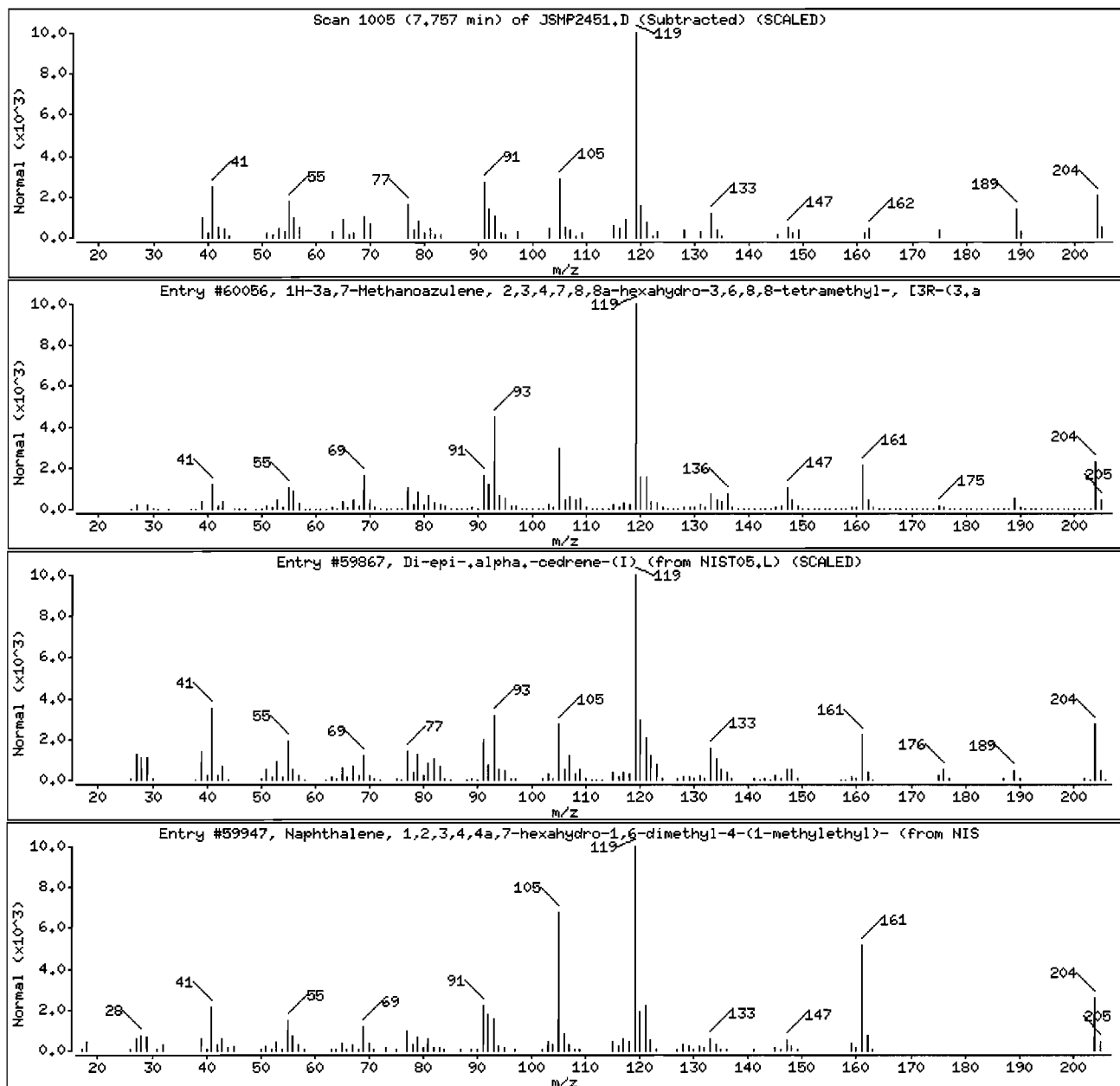
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60056	90	C15H24	204
Di-epi-.alpha.-cedrene-(I)	21996-77-0	NIST05.L	59867	64	C15H24	204
Naphthalene, 1,2,3,4,4a,7-hexahydro-1,6-	16728-99-7	NIST05.L	59947	49	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

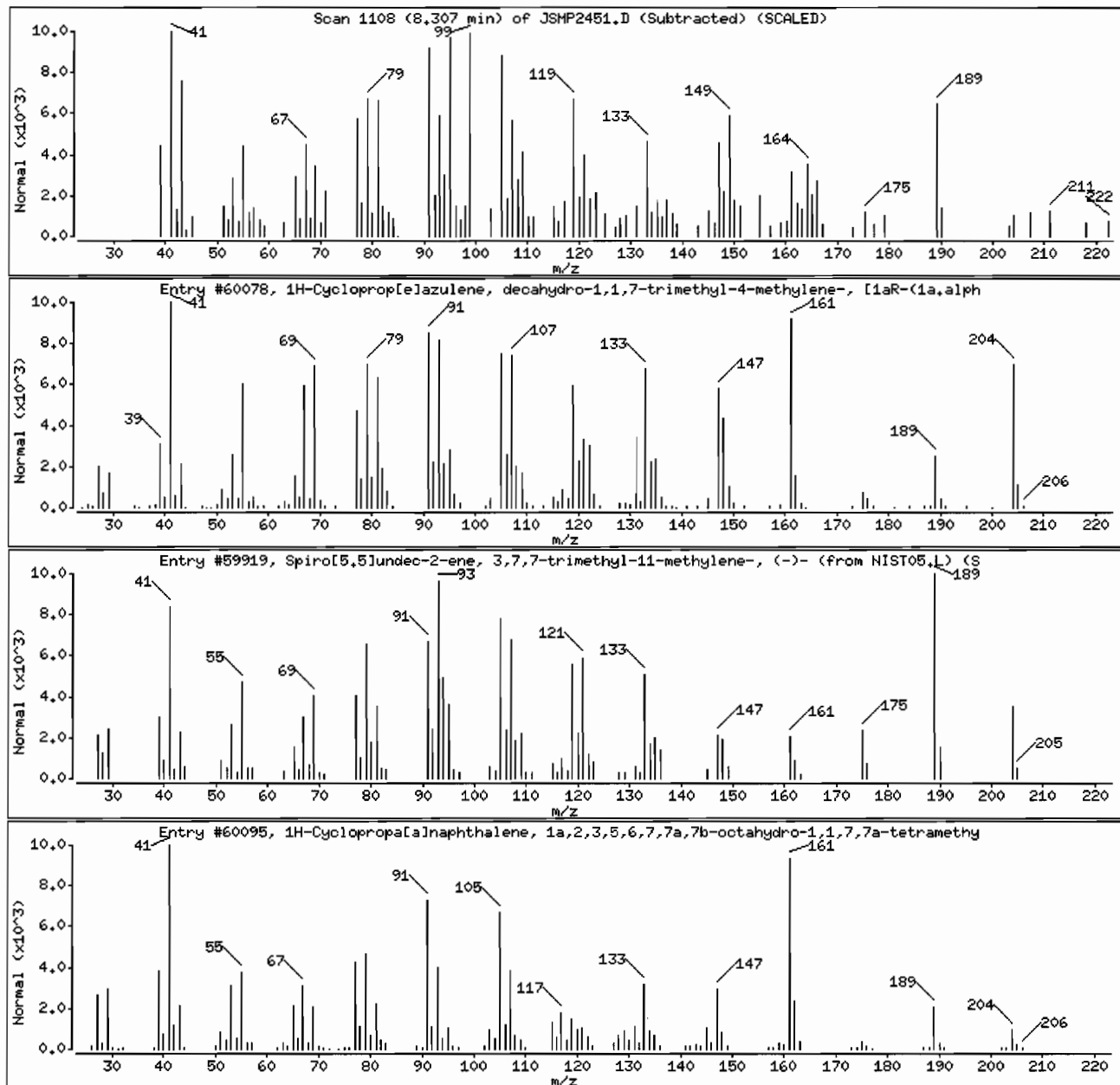
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cycloprop[elazulene, decahydro-1,1,7-	489-39-4	NIST05.L	60078	66	C15H24	204
Spiro[5.5]undec-2-ene, 3,7,7-trimethyl-1	18431-82-8	NIST05.L	59919	49	C15H24	204
1H-Cyclopropa[alnaphthalene, 1a,2,3,5,6,	17334-55-3	NIST05.L	60095	48	C15H24	204





Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSHP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

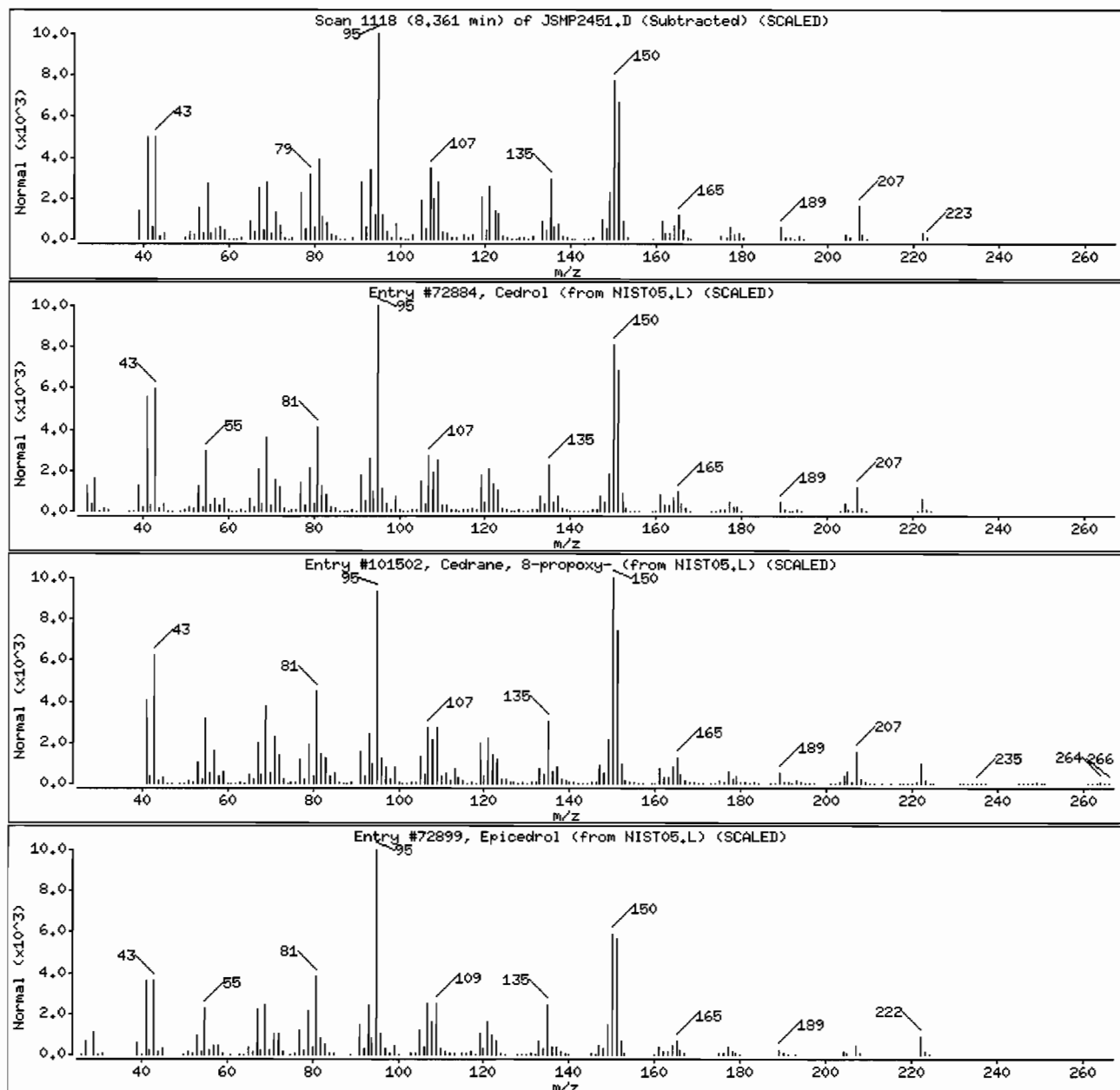
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cedrol	77-53-2	NIST05.L	72884	94	C <sub>15</sub> H <sub>26</sub> O	222
Cedrane, 8-propoxy-	19870-75-8	NIST05.L	101502	91	C <sub>18</sub> H <sub>32</sub> O	264
Epicedrol	1000156-22-8	NIST05.L	72899	90	C <sub>15</sub> H <sub>26</sub> O	222



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

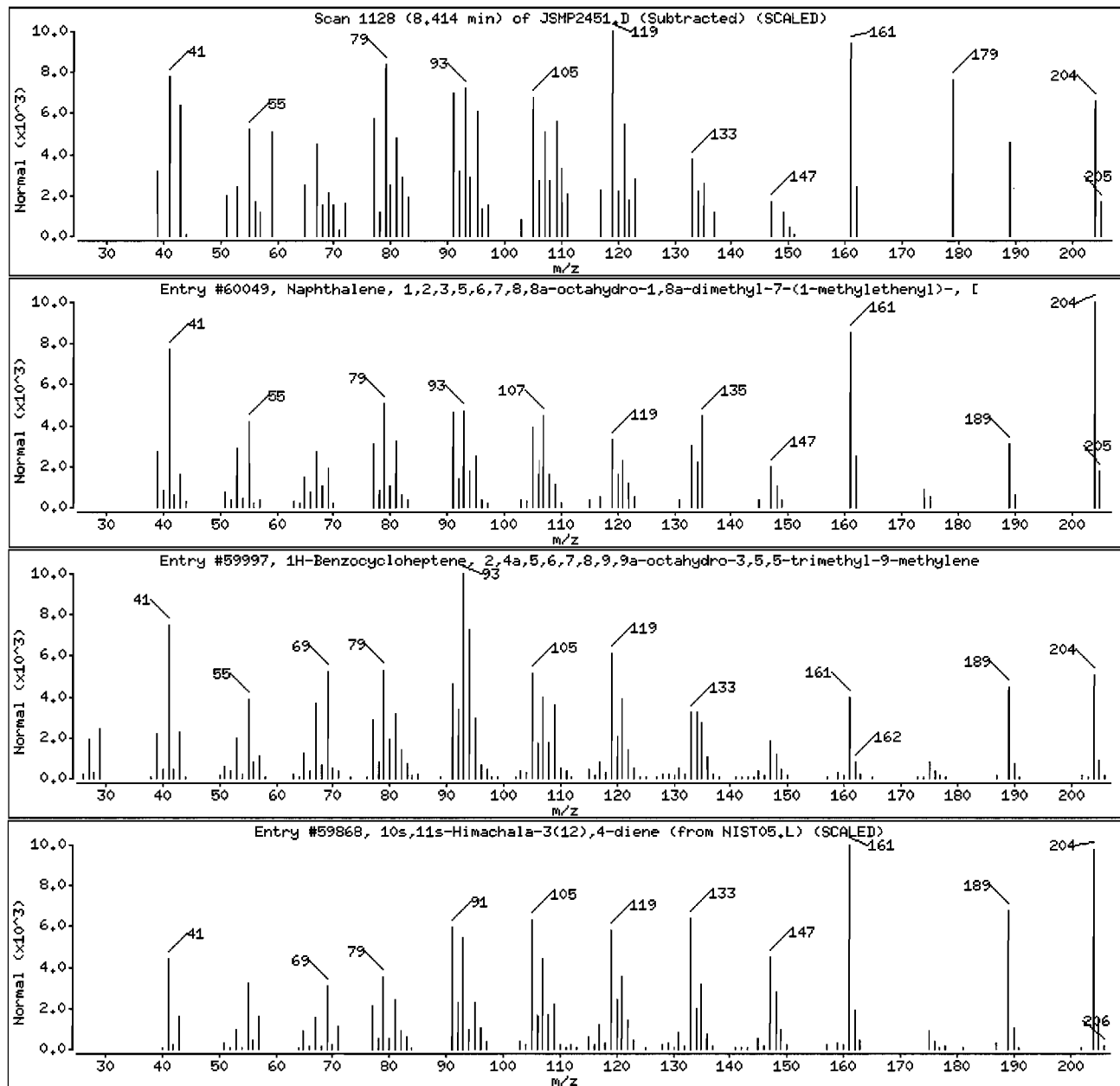
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60049	86	C15H24	204
1H-Benzocycloheptene, 2,4a,5,6,7,8,9,9a-	3853-83-6	NIST05.L	59997	53	C15H24	204
10s,11s-Hinachala-3(12),4-diene	60909-28-6	NIST05.L	59868	50	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.E\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

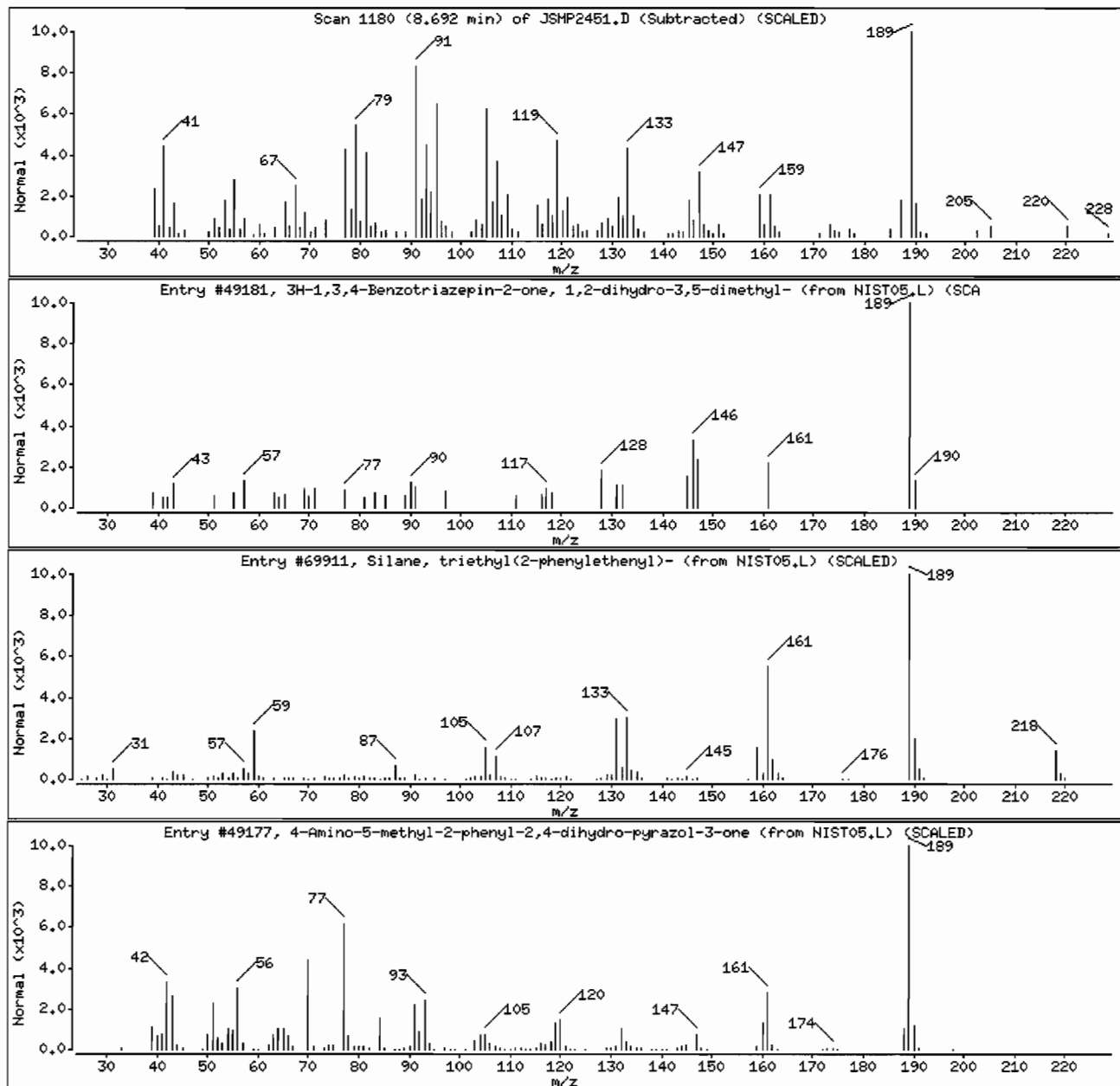
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3H-1,3,4-Benzotriazepin-2-one, 1,2-dihyd	105999-05-1	NIST05.L	49181	27	C10H11N3O	189
Silane, triethyl(2-phenylethenyl)-	1206-29-7	NIST05.L	69911	25	C14H22Si	218
4-Amino-5-methyl-2-phenyl-2,4-dihydro-py	1000300-59-0	NIST05.L	49177	25	C10H11N3O	189



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

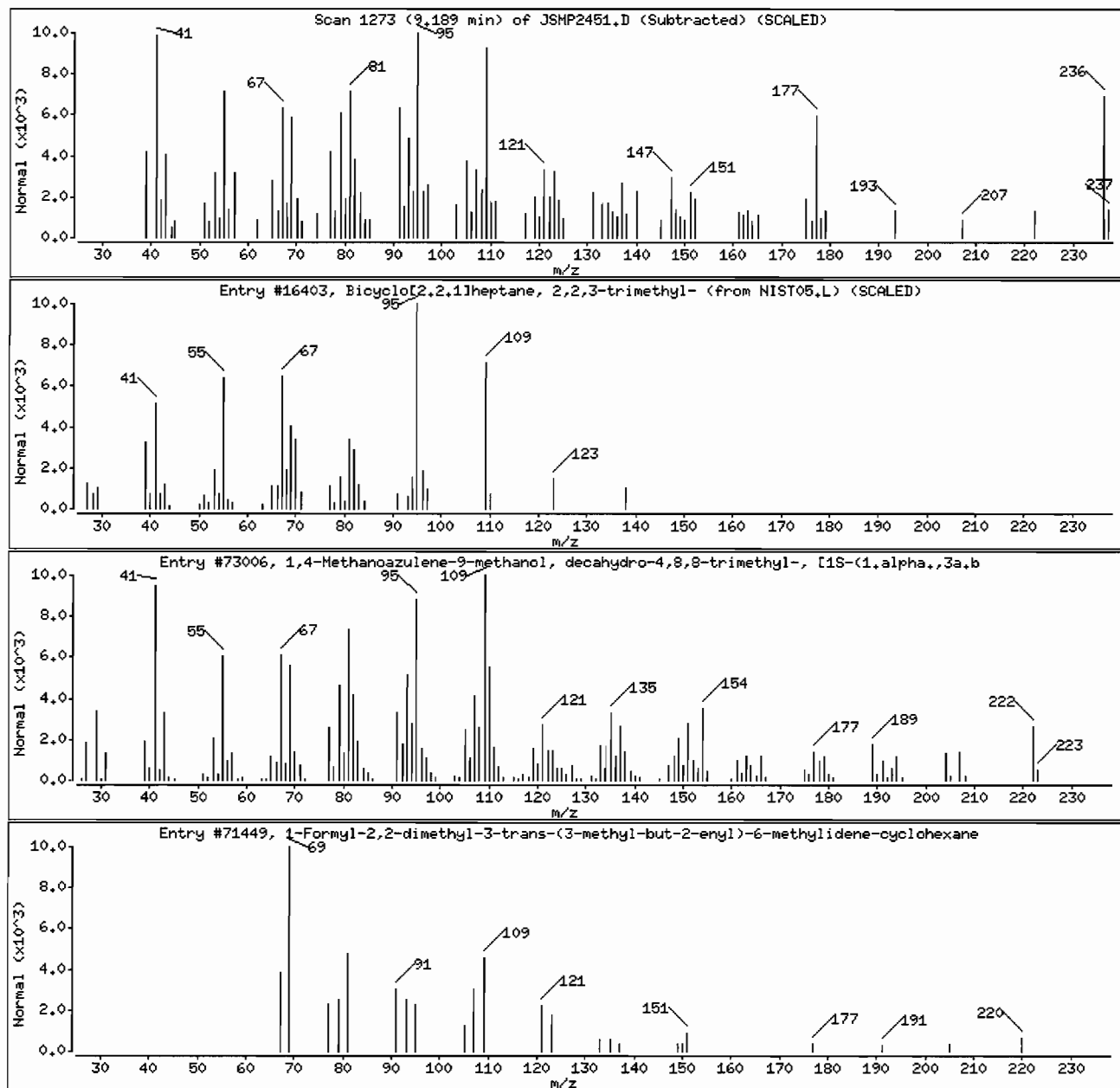
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	473-19-8	NIST05.L	16403	46	C10H18	138
1,4-Methanoazulene-9-methanol, decahydro	1139-17-9	NIST05.L	73006	38	C15H26O	222
1-Formyl-2,2-dimethyl-3-trans-(3-methyl-	1000144-09-7	NIST05.L	71449	35	C15H24O	220



Data File: \\slsvr01\kna\_lab\MSJ,i\J100415A,B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

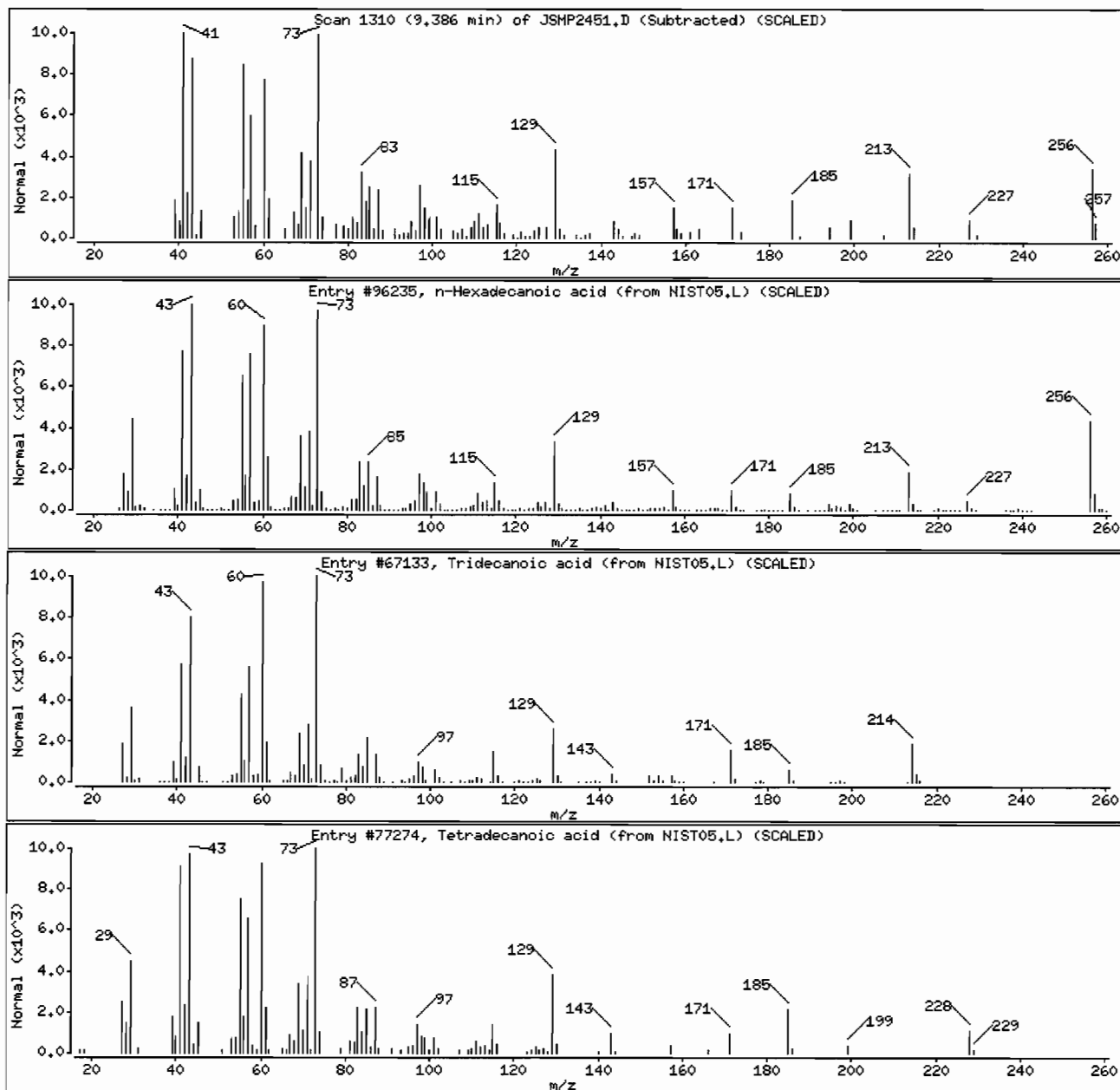
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96235	97	C16H32O2	256
Tridecanoic acid	638-53-9	NIST05.L	67133	81	C13H26O2	214
Tetradecanoic acid	544-63-8	NIST05.L	77274	74	C14H28O2	228



Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSHMP2451.D

Page 16

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

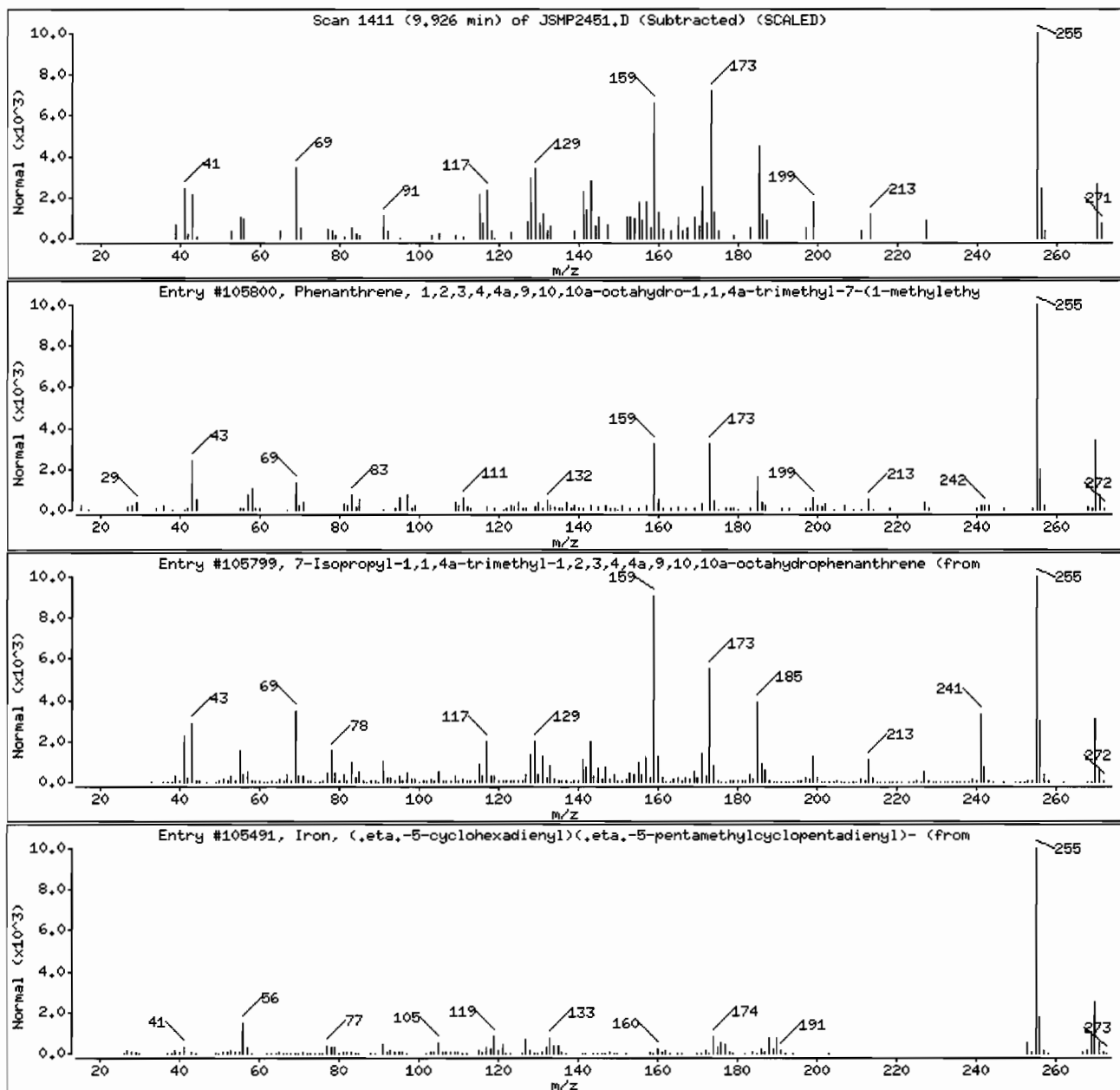
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	19407-28-4	NIST05.L	105800	93	C20H30	270
7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,	1000210-28-9	NIST05.L	105799	81	C20H30	270
Iron, (,eta,-5-cyclohexadienyl)(,eta,-5-	1000162-99-3	NIST05.L	105491	27	C16H22Fe	270



Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2451.D

Page 17

Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

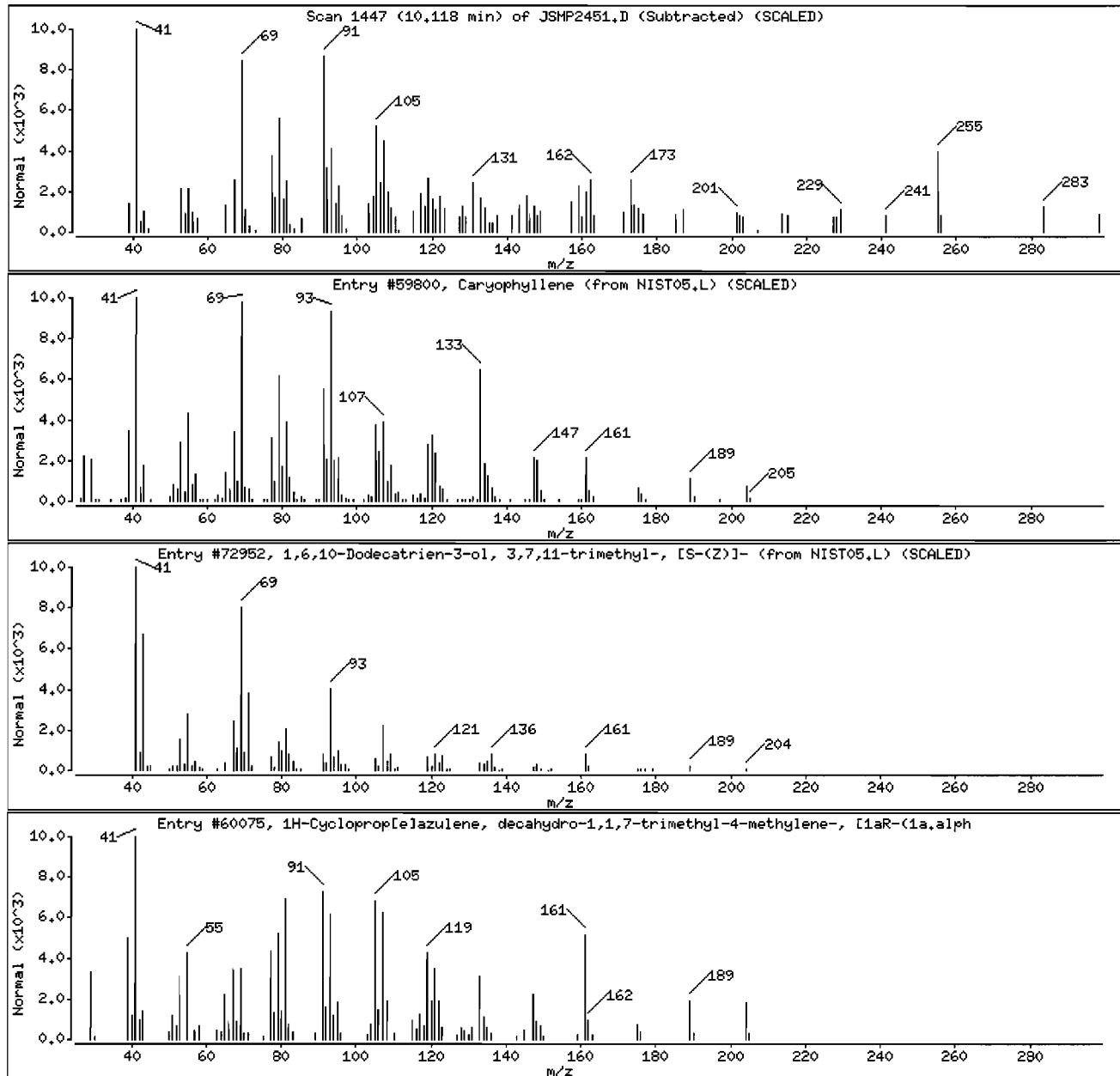
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Caryophyllene	87-44-5	NIST05.L	59800	38	C15H24	204
1,6,10-Dodecatrien-3-ol, 3,7,11-trimethyl	142-50-7	NIST05.L	72952	22	C15H26O	222
1H-Cycloprop[elazulene, decahydro-1,1,7-	25246-27-9	NIST05.L	60075	18	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

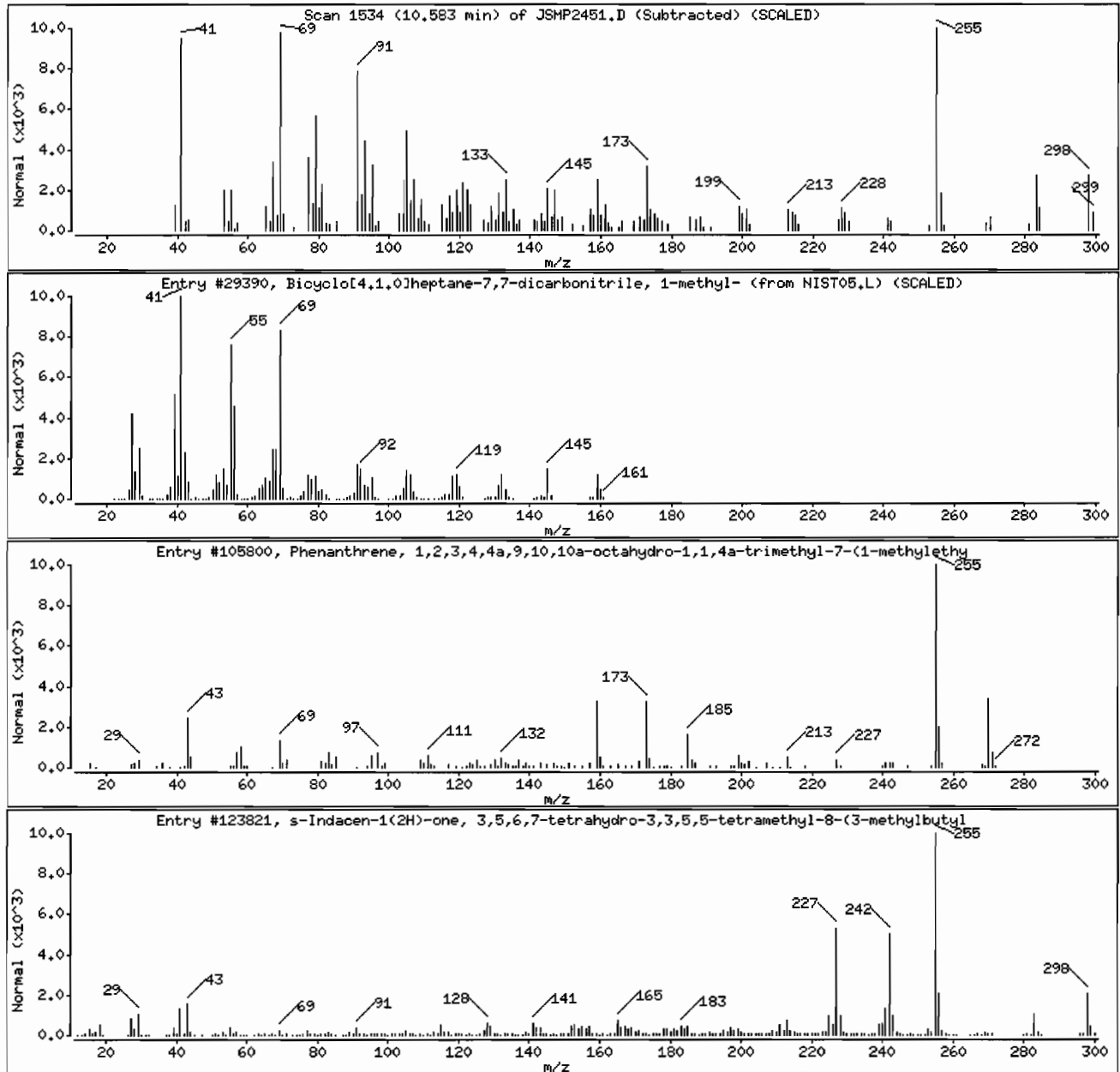
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[4.1.0]heptane-7,7-dicarbonitrile	74764-53-7	NIST05.L	29390	25	C10H12N2	160
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	19407-28-4	NIST05.L	105800	22	C20H30	270
s-Indacen-1(2H)-one, 3,5,6,7-tetrahydro-	55712-64-6	NIST05.L	123821	12	C21H30O	298





Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.E\JSM2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

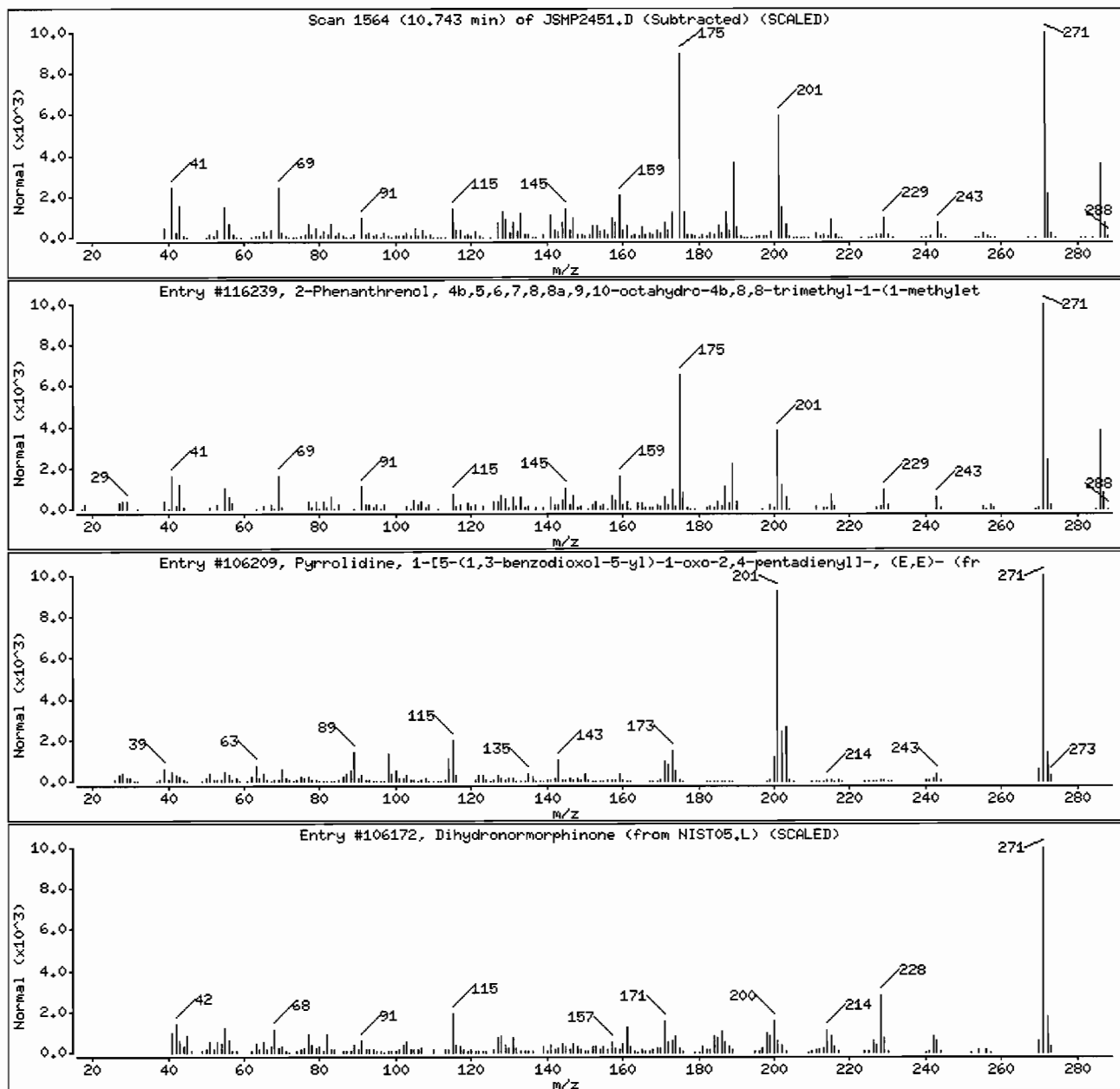
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	98	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	30	C16H17NO3	271
Dihydronormorphine	14696-23-2	NIST05.L	106172	25	C16H17NO3	271



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

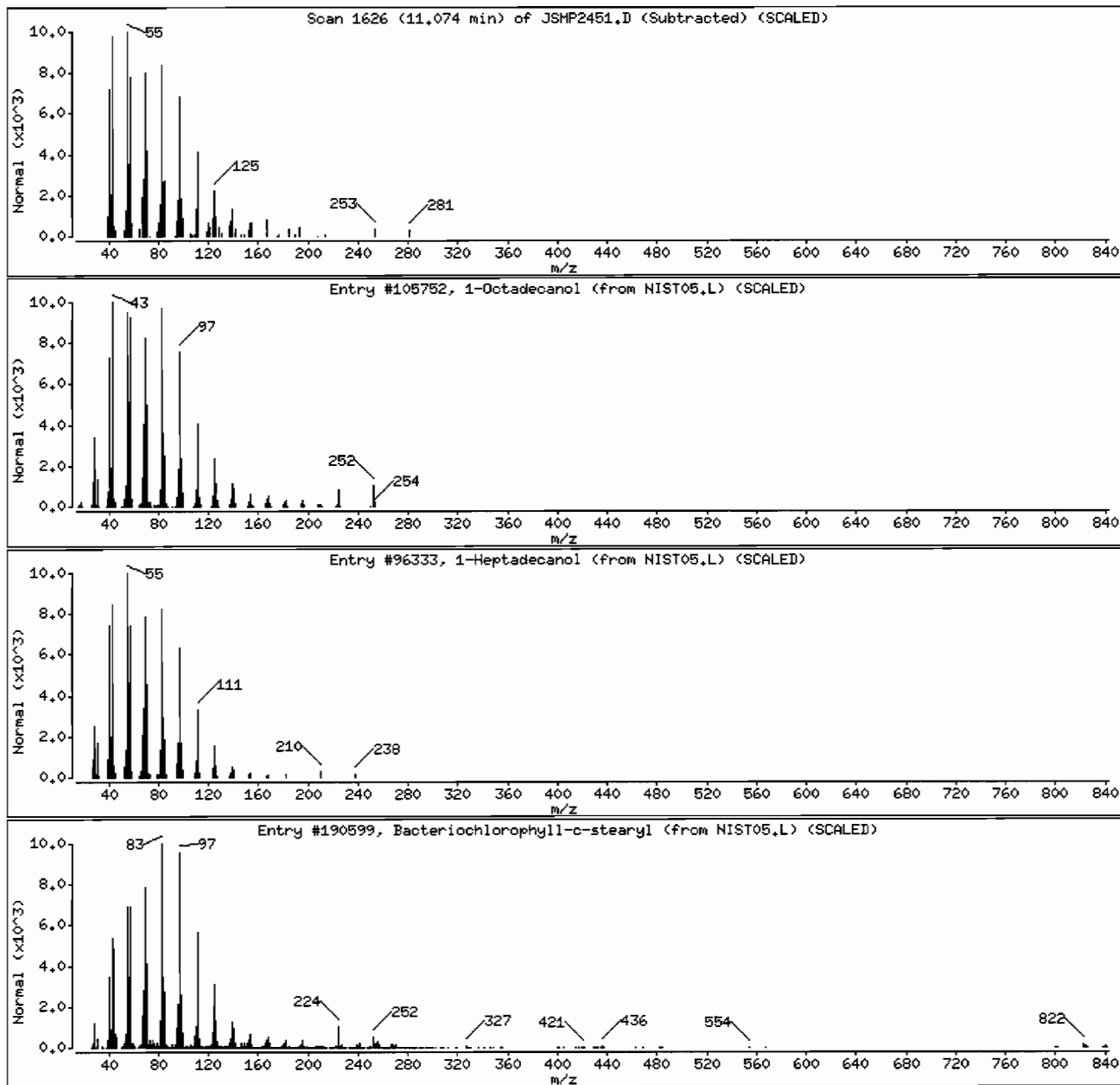
Volume Injected (uL): 1.0

Operator: JMW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octadecanol	112-92-5	NIST05.L	105752	94	C18H38O	270
1-Heptadecanol	1454-85-9	NIST05.L	96333	91	C17H36O	256
Bacteriochlorophyll-c-stearyl	1000164-49-7	NIST05.L	190599	91	C52H72MgN4O4	841



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

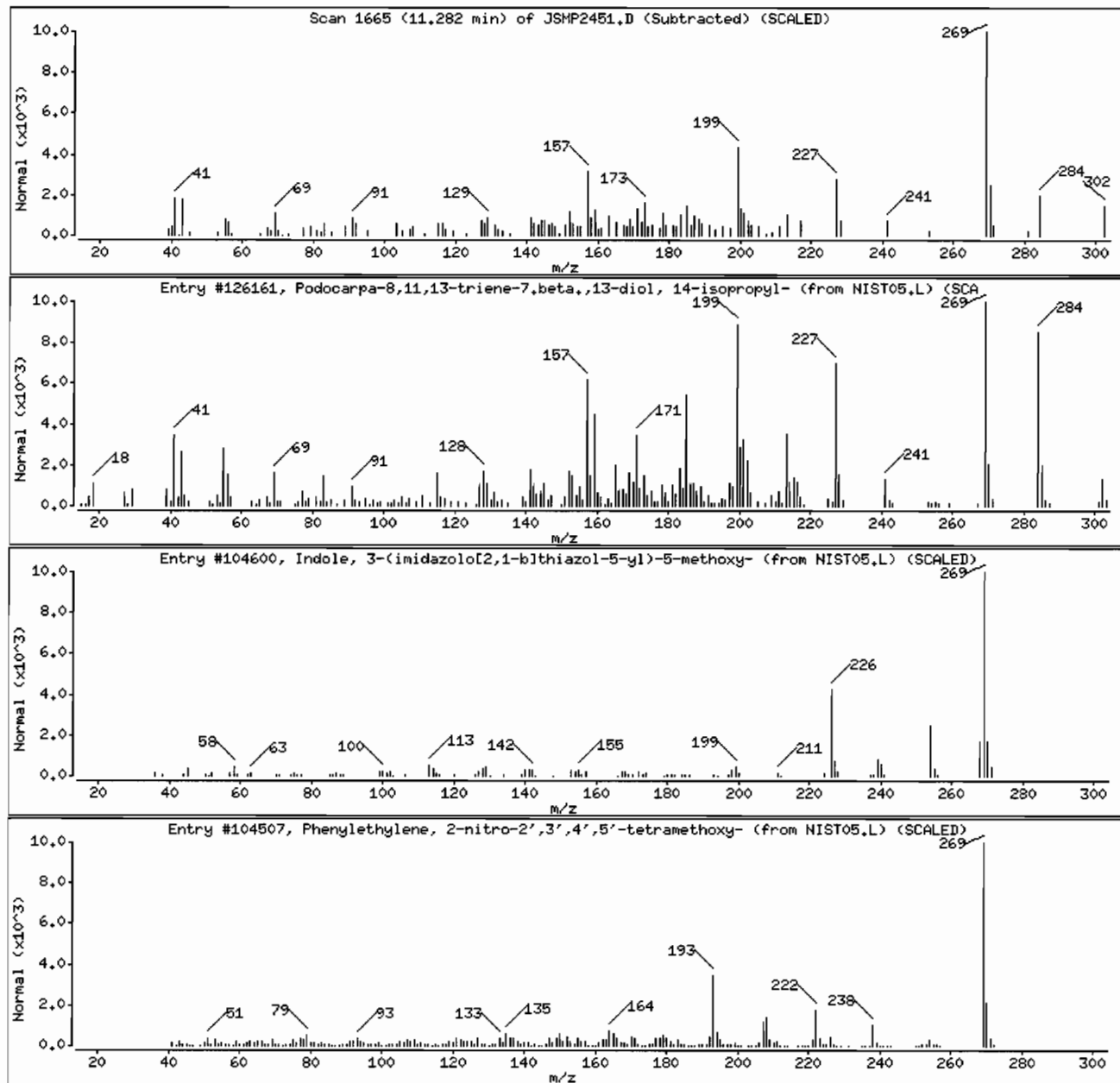
Volume Injected (uL): 1.0

Operator: JKL/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Podocarpa-8,11,13-triene-7,13-diol	24338-19-0	NIST05.L	126161	35	C20H30O2	302
Indole, 3-(imidazo[2,1-b]thiazol-5-yl)	1000260-22-5	NIST05.L	104600	35	C14H11N3OS	269
Phenylethylene, 2-nitro-2',3',4',5'-tetr	82261-07-2	NIST05.L	104507	30	C12H15NO6	269



Data File: \\slsvr01\lba\_lab\MSJ,i\J100415A,B\JSHMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LKXK01AE

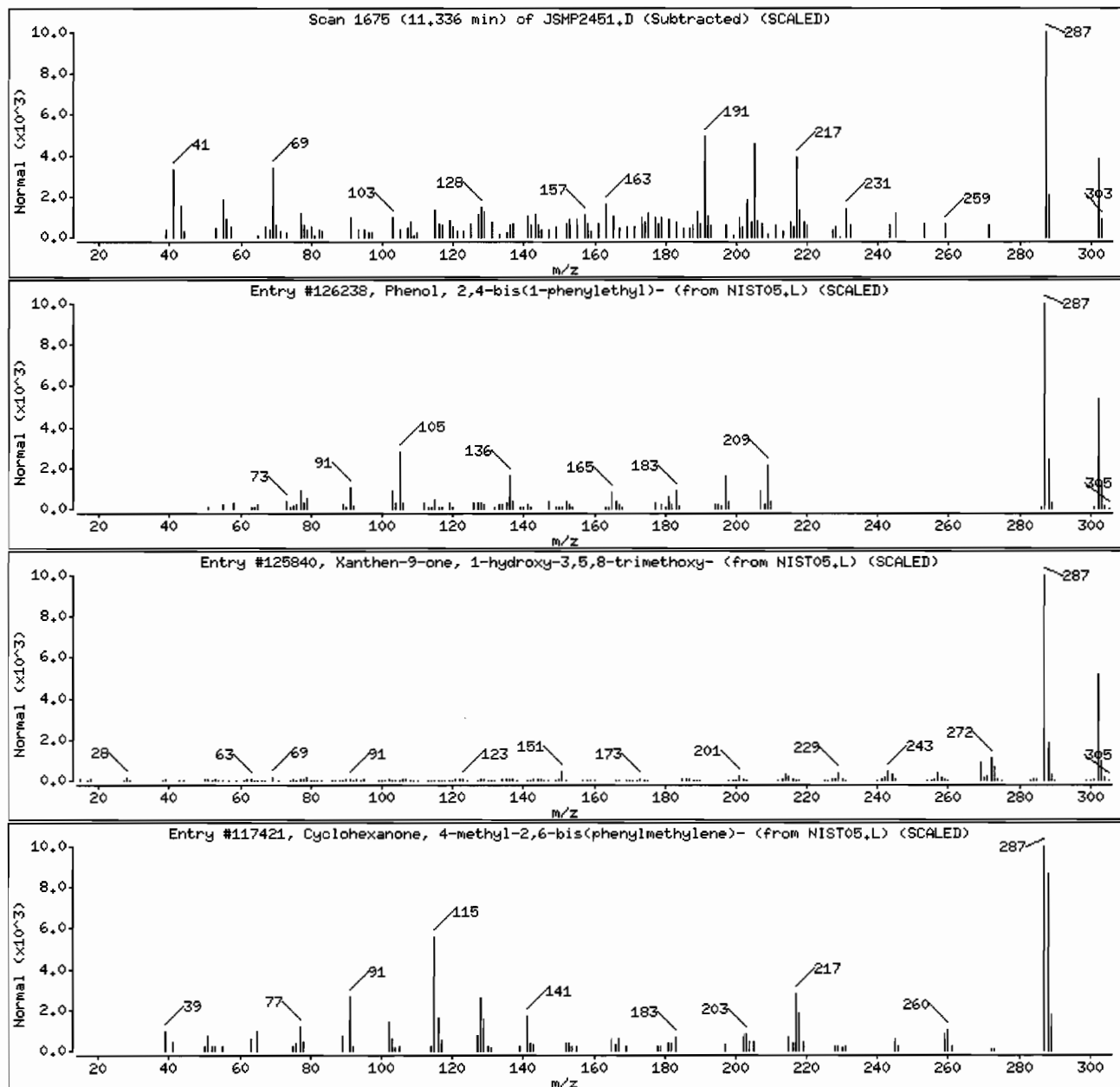
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, 2,4-bis(1-phenylethyl)-	2769-94-0	NIST05.L	126238	45	C22H22O	302
Xanthen-9-one, 1-hydroxy-3,5,8-trimethoxy-	49599-09-9	NIST05.L	125840	35	C16H14O6	302
Cyclohexanone, 4-methyl-2,6-bis(phenylme	19186-11-9	NIST05.L	117421	25	C21H20O	288



Data File: \\slsvr01\lba\_lab\MSJ,i\J100415A,B\JSHMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ,i

Sample Info: LXNKG1AE

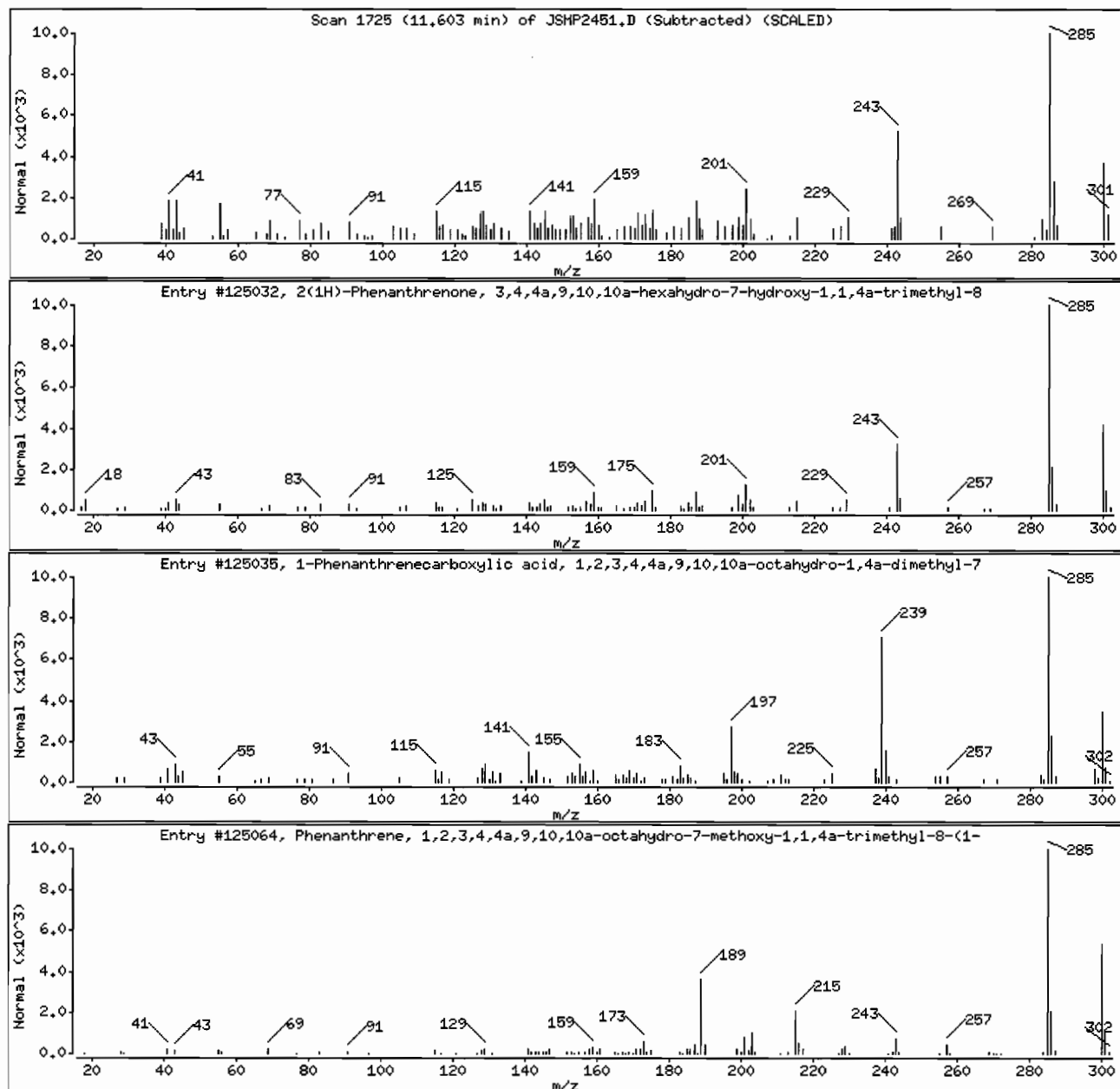
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-he	6755-93-7	NIST05.L	125032	95	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	5155-70-4	NIST05.L	125035	60	C20H28O2	300
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	15340-83-7	NIST05.L	125064	50	C21H32O	300



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

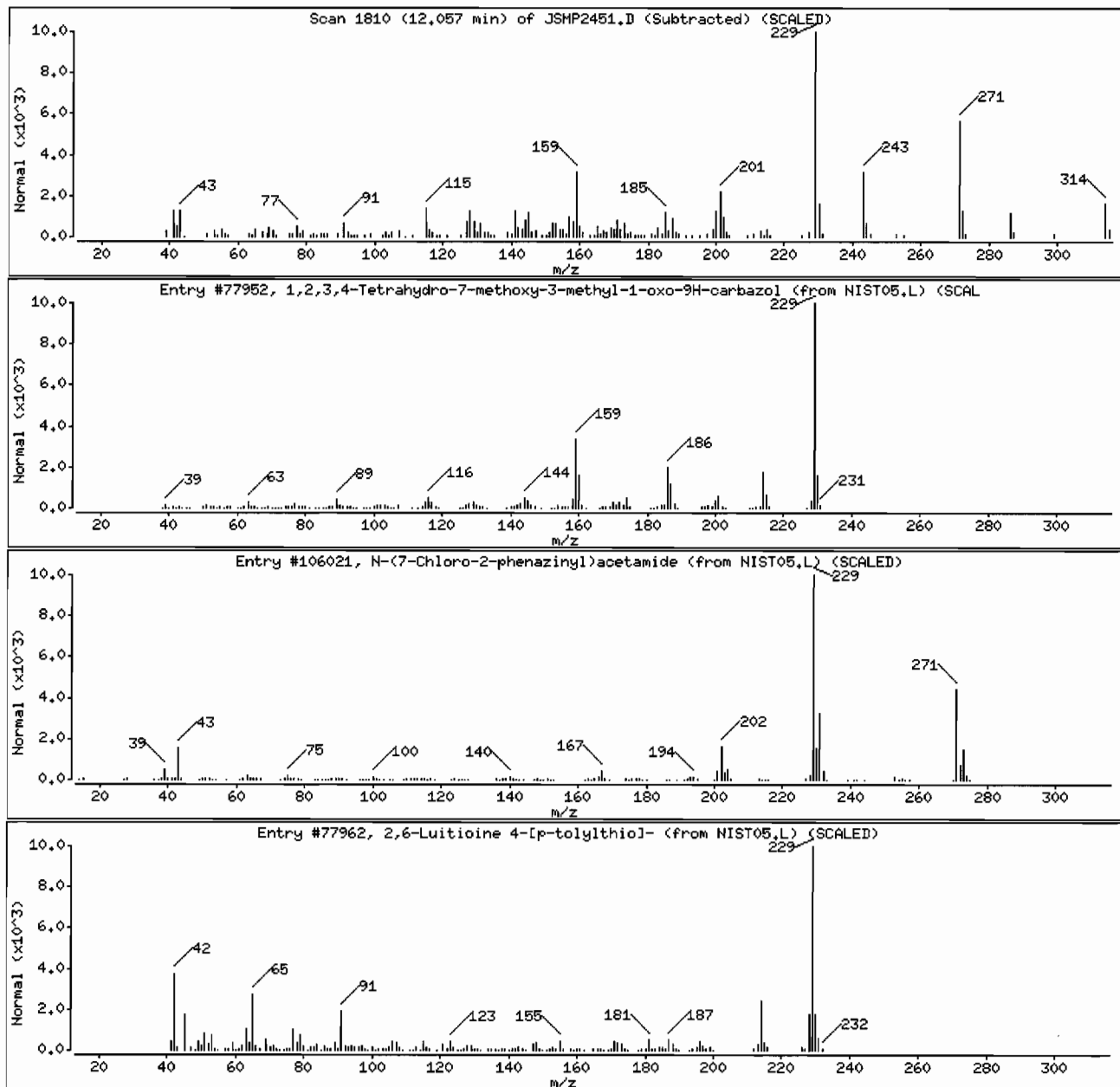
Volume Injected (uL): 1.0

Operator: JH/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-	32550-51-9	NIST05.L	77952	50	C14H15NO2	229
N-(7-Chloro-2-phenaziny)acetamide	23677-13-6	NIST05.L	106021	49	C14H10ClN3O	271
2,6-Lutitoin 4-[p-tolythio]-	1000252-20-5	NIST05.L	77962	30	C14H15NS	229



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2451.D

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Date : 15-APR-2010 20:29

Client ID: RE12-10-15448

Instrument: MSJ.i

Sample Info: LXNKG1AE

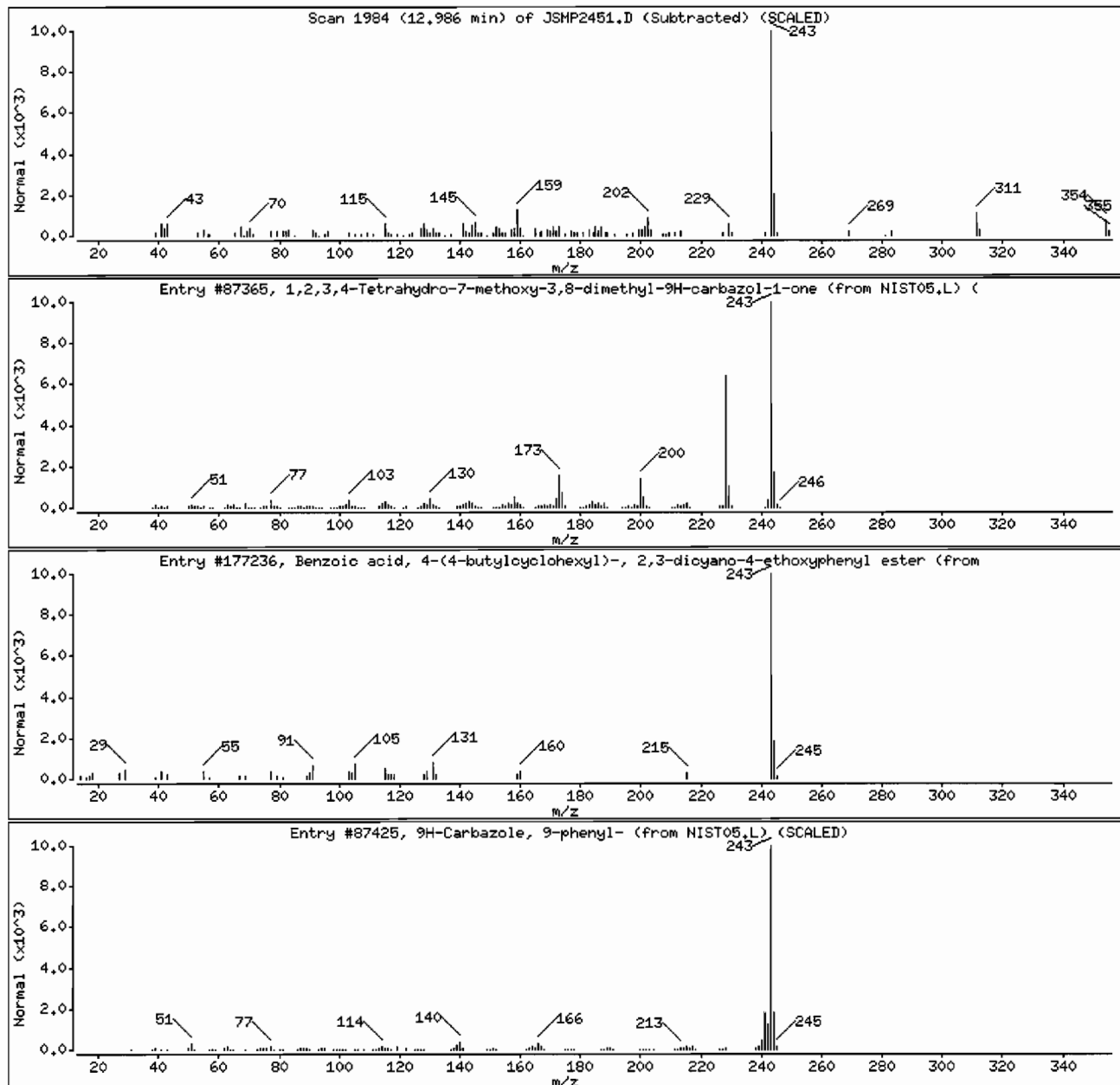
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3,8-dimethy	1000281-20-4	NIST05.L	87365	59	C15H17NO2	243
Benzoic acid, 4-(4-butylcyclohexyl)-, 2,	86377-40-4	NIST05.L	177236	59	C27H30N2O3	430
9H-Carbazole, 9-phenyl-	1150-62-5	NIST05.L	87425	53	C18H13N	243



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
 Report Date: 16-Apr-2010 12:02

Page 1

## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
 Lab Smp Id: LXNKH1AE Client Smp ID: RE12-10-15446  
 Inj Date : 15-APR-2010 20:54  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKH1AE  
 Misc Info : F0D080489-005 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS							(ug/mL)	(ug/Kg)
=====	----		----	-----	-----	-----		-----	-----
\$ 10 2-Fluorophenol	112		4.551	4.549 (0.830)		149106		52.9221	1764
\$ 15 Phenol-d5	99		5.224	5.227 (0.952)		185568		51.4836	1716
* 22 1,4-Dichlorobenzene-d4	152		5.485	5.495 (1.000)		98243		40.0000	
\$ 36 Nitrobenzene-d5	82		5.918	5.927 (0.917)		125996		32.8631	1095
* 48 Naphthalene-d8	136		6.452	6.461 (1.000)		347108		40.0000	
\$ 69 2-Fluorobiphenyl	172		7.280	7.289 (0.928)		231984		32.5835	1086
* 82 Acenaphthene-d10	164		7.841	7.850 (1.000)		199451		40.0000	
\$ 104 2,4,6-Tribromophenol	330		8.482	8.491 (0.939)		58525		51.9443	1731
* 121 Phenanthrene-d10	188		9.037	9.041 (1.000)		389288		40.0000	
\$ 139 Terphenyl-d14	244		10.324	10.334 (0.902)		346365		39.7096	1324
* 153 Chrysene-d12	240		11.441	11.450 (1.000)		411624		40.0000	
* 166 Perylene-d12	264		13.764	13.779 (1.000)		235539		40.0000	



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
 Report Date: 16-Apr-2010 12:02

Page 1

TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
 Lab Smp Id: LXNKH1AE Client Smp ID: RE12-10-15446  
 Inj Date : 15-APR-2010 20:54  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKH1AE  
 Misc Info : F0D080489-005 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.486	655860	40.000
* 121 Phenanthrene-d10	9.038	970340	40.000
* 153 Chrysene-d12	11.441	1064949	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
3.835	115121	7.02105432	234.0	0		0	22
Unknown Aldol Condensate					CAS #:		
4.295	3684135	224.690293	7490	0		0	22
2-Propanol, 1-butoxy-					CAS #: 5131-66-8		
4.989	161860	9.87161898	329.0	90	NIST05.L	13973	22

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
Report Date: 16-Apr-2010 12:02

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RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
----	----	-----	-----	----	-----	-----	-----
n-Hexadecanoic acid					CAS #: 57-10-3		
9.379	162607	6.70310254	223.4	96	NIST05.L	96234	121
Unknown					CAS #:		
9.962	111134	4.58122745	152.7	0		0	121
Unknown					CAS #:		
11.067	155588	5.84394353	194.8	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2452.D  
 Report Date: 16-Apr-2010 12:02

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2452.D Calibration Time: 11:13  
 Lab Smp Id: LXNKH1AE Client Smp ID: RE12-10-15446  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-005 (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	98243	-3.89
48 Naphthalene-d8	360526	180263	721052	347108	-3.72
82 Acenaphthene-d10	206190	103095	412380	199451	-3.27
121 Phenanthrene-d10	415780	207890	831560	389288	-6.37
153 Chrysene-d12	446285	223143	892570	411624	-7.77
166 Perylene-d12	410994	205497	821988	235539	-42.69

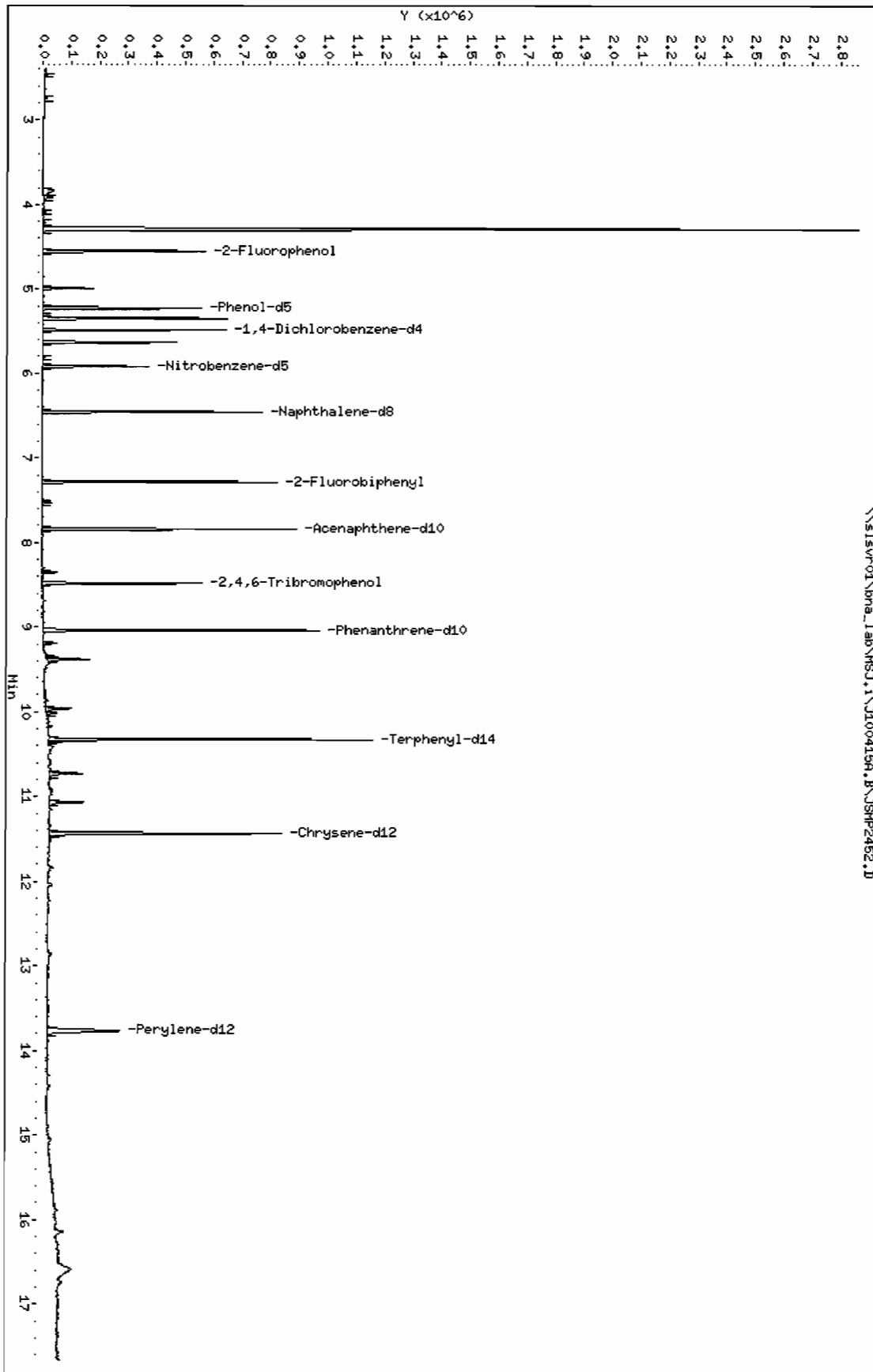
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.17
48 Naphthalene-d8	6.46	5.96	6.96	6.45	-0.14
82 Acenaphthene-d10	7.85	7.35	8.35	7.84	-0.12
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.04
153 Chrysene-d12	11.45	10.95	11.95	11.44	-0.08
166 Perylene-d12	13.78	13.28	14.28	13.76	-0.11

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: \\slsvr01\bna\_lab\MSJ.1\J1004156.B\JSMF2452.D  
Date: 15-APR-2010 20:54  
Client ID: RE12-10-15446  
Sample Info: LMKH1AE  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.i  
Operator: JM/HAK  
Column diameter: 2.00

Page 1



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2452.D

Page 1

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ.i

Sample Info: LXNH1AE

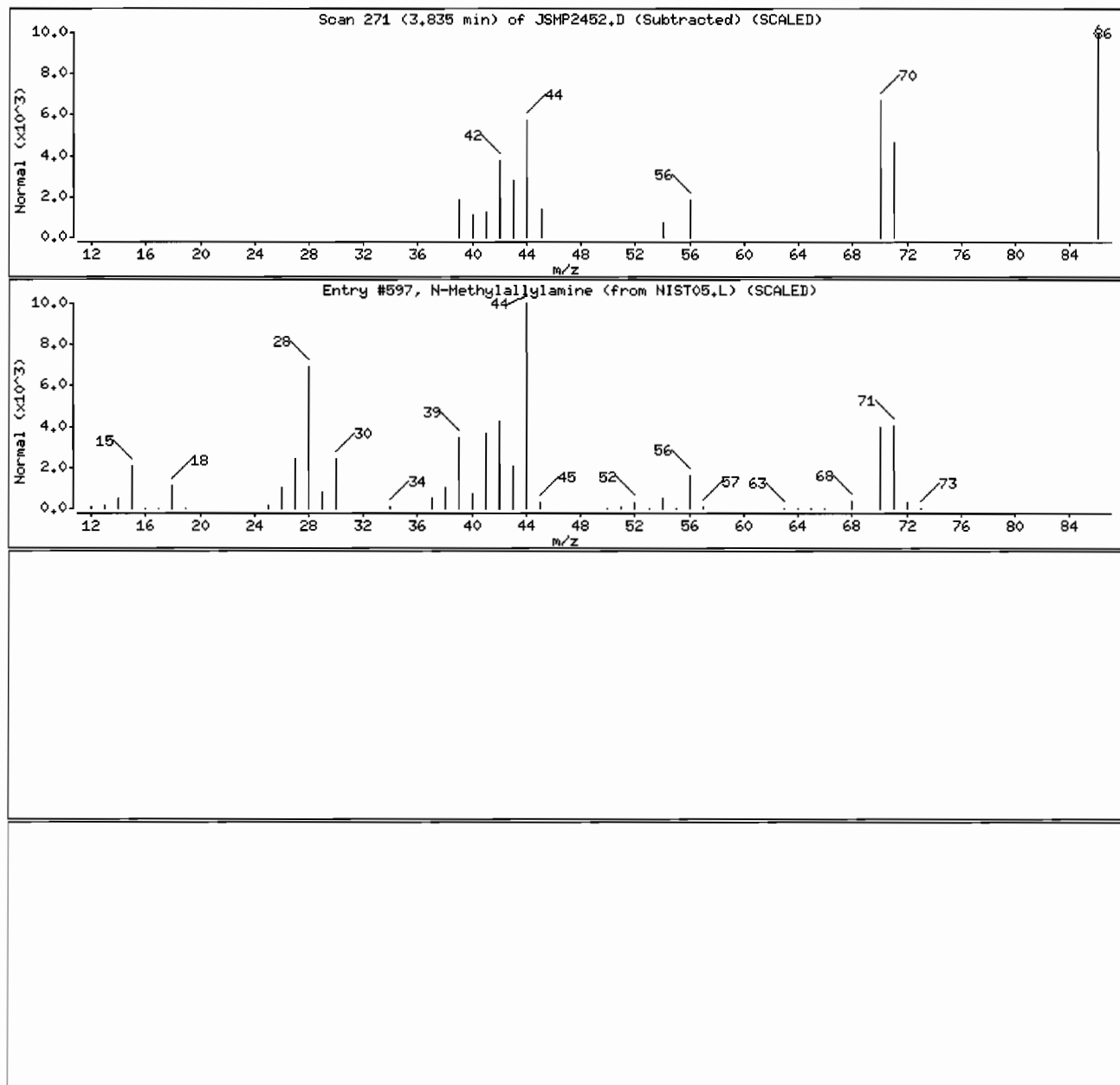
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
N-Methylallylamine	627-37-2	NIST05.L	597	10	C4H9N	71



Data File: \\slsvr01\lona\_lab\MSJ.i\J100415A.B\JSMP2452.D

Page 2

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ.i

Sample Info: LXNKH1AE

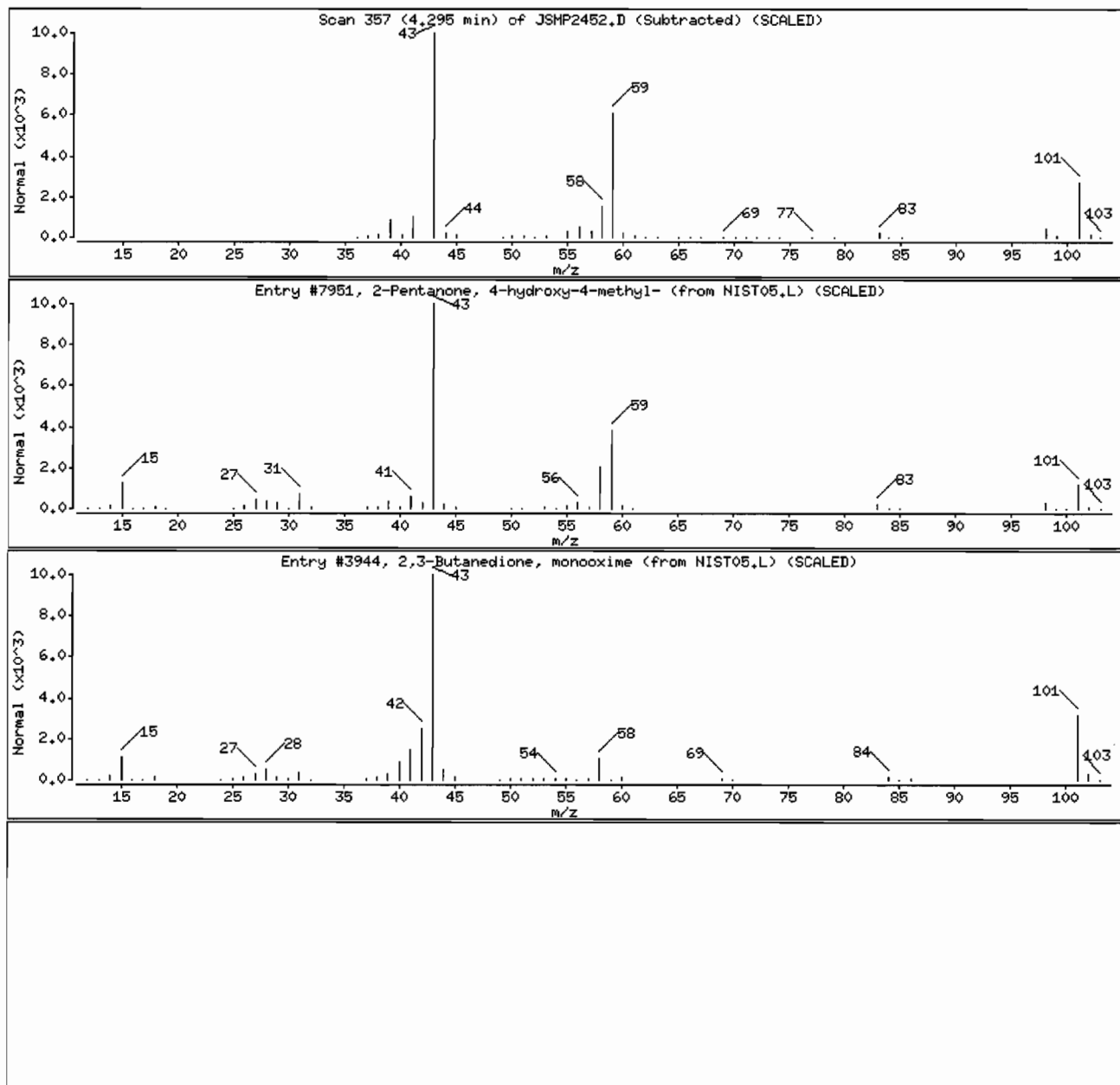
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2452.D

Page 3

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ,i

Sample Info: LXNH1AE

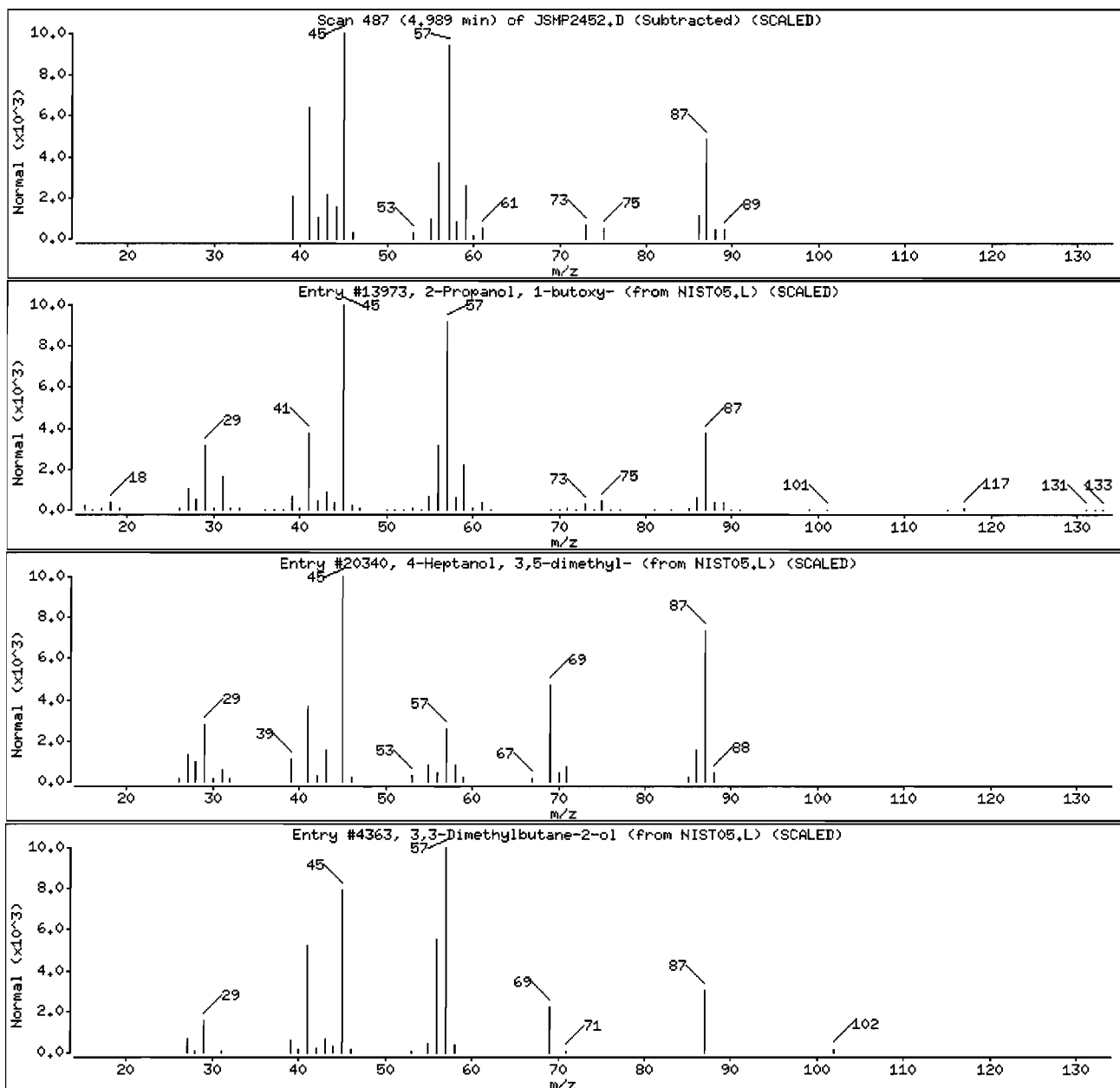
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propanol, 1-butoxy-	5131-66-8	NIST05.L	13973	90	C7H16O2	132
4-Heptanol, 3,5-dimethyl-	19549-79-2	NIST05.L	20340	53	C9H20O	144
3,3-Dimethylbutane-2-ol	464-07-3	NIST05.L	4363	50	C6H14O	102



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMF2452.D

Page 4

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ.i

Sample Info: LXNKH1AE

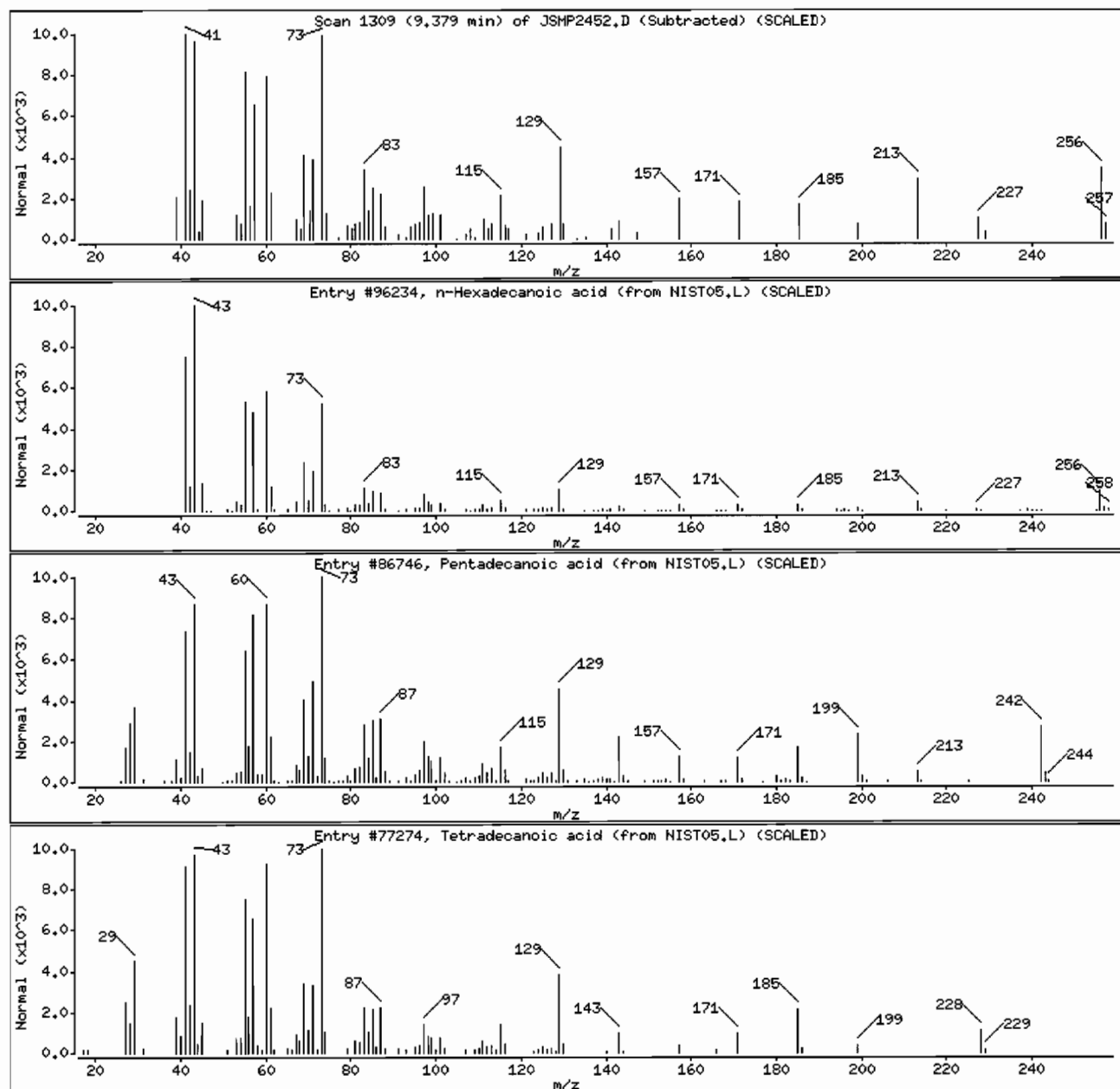
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
n-Hexadecanoic acid	57-10-3	NIST05.L	96234	96	C16H32O2	256
Pentadecanoic acid	1002-84-2	NIST05.L	86746	74	C15H30O2	242
Tetradecanoic acid	544-63-8	NIST05.L	77274	68	C14H28O2	228





Data File: \\slsvr01\lba\_lab\MSJ.i\J100415A.B\JSMF2452.D

Page 5

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ.i

Sample Info: LXNKH1AE

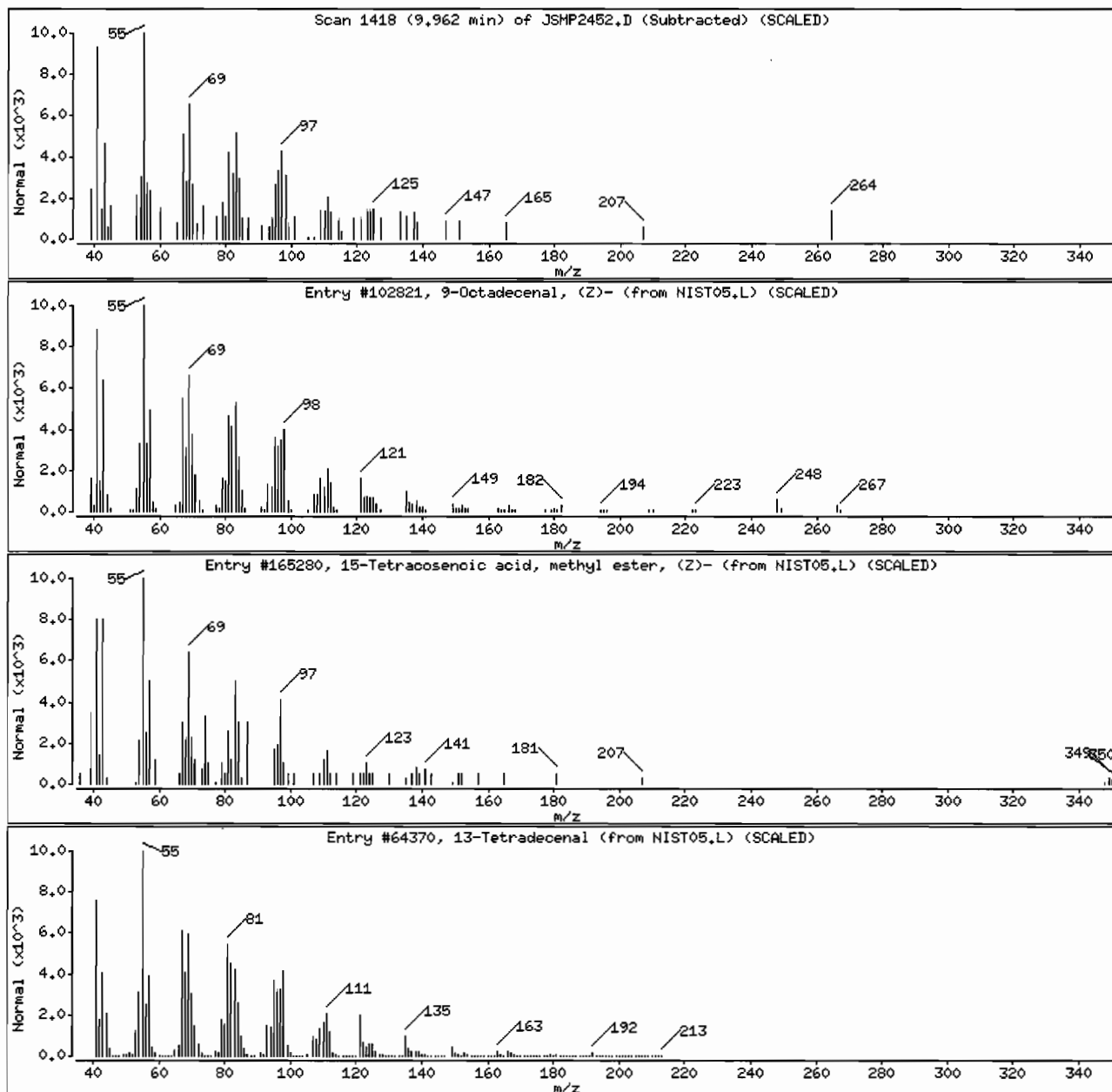
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenal, (Z)-	2423-10-1	NIST05.L	102821	68	C18H34O	266
15-Tetracosenoic acid, methyl ester, (Z)	2733-88-2	NIST05.L	165280	62	C25H48O2	380
13-Tetradecenal	85896-31-7	NIST05.L	64370	58	C14H26O	210



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2452.D

Page 6

Date : 15-APR-2010 20:54

Client ID: RE12-10-15446

Instrument: MSJ,i

Sample Info: LXXNH1AE

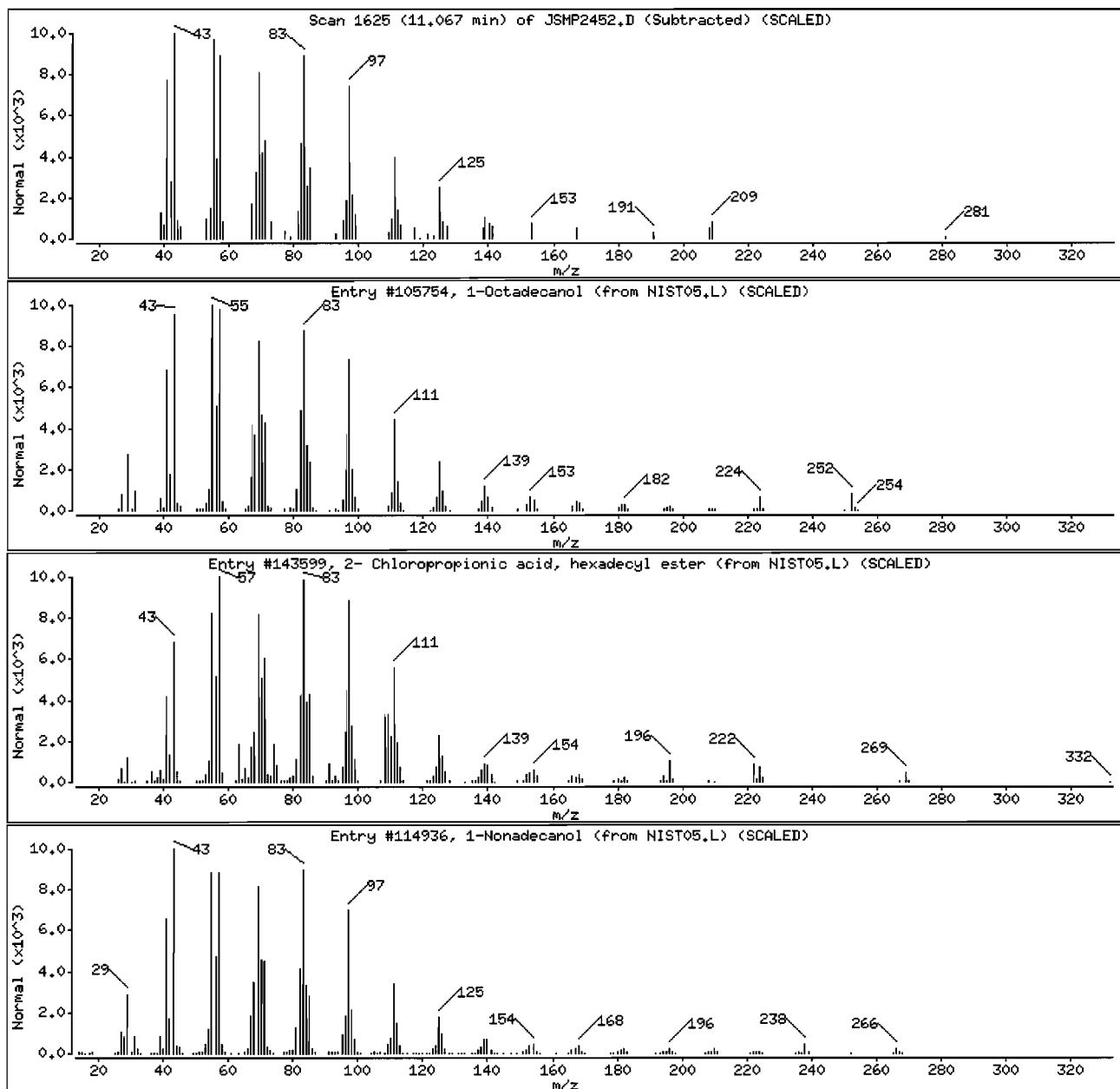
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octadecanol	112-92-5	NIST05.L	105754	95	C18H38O	270
2-Chloropropionic acid, hexadecyl ester	86711-81-1	NIST05.L	143599	90	C19H37ClO2	332
1-Nonadecanol	1454-84-8	NIST05.L	114936	90	C19H40O	284



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Report Date: 16-Apr-2010 12:06

Page 1

TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Lab Smp Id: LXNKJ1AE Client Smp ID: RE12-10-15445  
 Inj Date : 15-APR-2010 21:20  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKJ1AE  
 Misc Info : F0D080489-006 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/mL)	(ug/Kg)
\$ 10 2-Fluorophenol		112	4.557	4.549 (0.830)		152816	56.5271	1884
\$ 15 Phenol-d5		99	5.230	5.227 (0.952)		194325	56.1877	1873
* 22 1,4-Dichlorobenzene-d4		152	5.492	5.495 (1.000)		94266	40.0000	
\$ 36 Nitrobenzene-d5		82	5.925	5.927 (0.917)		134910	36.2808	1209
* 48 Naphthalene-d8		136	6.459	6.461 (1.000)		336654	40.0000	
\$ 69 2-Fluorobiphenyl		172	7.287	7.289 (0.929)		243263	35.1026	1170
* 82 Acenaphthene-d10		164	7.847	7.850 (1.000)		194139	40.0000	
\$ 104 2,4,6-Tribromophenol		330	8.488	8.491 (0.939)		71438	64.1448	2138
* 121 Phenanthrene-d10		188	9.038	9.041 (1.000)		384800	40.0000	
\$ 139 Terphenyl-d14		244	10.331	10.334 (0.902)		360448	42.0347	1401
* 153 Chrysene-d12		240	11.447	11.450 (1.000)		404666	40.0000	
* 166 Perylene-d12		264	13.776	13.779 (1.000)		234858	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Report Date: 16-Apr-2010 12:06

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Lab Smp Id: LXNKJ1AE Client Smp ID: RE12-10-15445  
 Inj Date : 15-APR-2010 21:20  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKJ1AE  
 Misc Info : F0D080489-006 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.493	639544	40.000
* 82 Acenaphthene-d10	7.848	1260756	40.000
* 121 Phenanthrene-d10	9.039	1031062	40.000
* 153 Chrysene-d12	11.448	1220122	40.000
* 166 Perylene-d12	13.777	572556	40.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
3.831	218383	13.6586707	455.3	0		0	22
Unknown Aldol Condensate				CAS #:			
4.296	3900739	243.969748	8132	0		0	22

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Report Date: 16-Apr-2010 12:06

Page 2

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
1,3,6,10-Dodecatetraene, 3,7,11-trimethy					CAS #: 26560-14-5		
7.324	195602	6.20586981	206.9	90	NIST05.L	59889	82
Unknown					CAS #:		
7.426	256841	8.14879883	271.6	0		0	82
Unknown					CAS #:		
7.490	1022217	32.4318742	1081	0		0	82
Unknown					CAS #:		
7.533	6187562	196.312654	6544	0		0	82
Unknown					CAS #:		
7.592	151184	4.79662108	159.9	0		0	82
Unknown					CAS #:		
7.736	658192	20.8824455	696.1	0		0	82
Unknown					CAS #:		
7.757	332367	10.5449912	351.5	0		0	82
Unknown					CAS #:		
8.414	281508	8.93140460	297.7	0		0	82
Unknown					CAS #:		
8.644	146254	5.67391634	189.1	0		0	121
Unknown					CAS #:		
8.692	886398	34.3877519	1146	0		0	121
Unknown Organic Acid					CAS #:		
9.386	187762	7.28420814	242.8	0		0	121
Unknown					CAS #:		
9.926	124302	4.82230494	160.7	0		0	121
Unknown					CAS #:		
10.118	166188	6.44726103	214.9	0		0	121
Unknown					CAS #:		
10.358	754924	24.7491400	825.0	0		0	153
Unknown					CAS #:		
10.583	612742	20.0878985	669.6	0		0	153
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
10.748	9927357	325.454469	10850	98	NIST05.L	116239	153
Unknown					CAS #:		
11.074	199755	6.54868837	218.3	0		0	153
Unknown					CAS #:		
11.250	143746	4.71251703	157.1	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Report Date: 16-Apr-2010 12:06

Page 3

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
11.336	210514	6.90139819	230.0	0		0	153
2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-he					CAS #: 6755-93-7		
11.603	260588	8.54301585	284.8	94	NIST05.L	125032	153
9(1H)-Phenanthrenone, 2,3,4,4a,10,10a-he					CAS #: 511-05-7		
11.966	139016	4.55745738	151.9	97	NIST05.L	125029	153
Unknown					CAS #:		
12.051	774901	25.4040294	846.8	0		0	153
Unknown					CAS #:		
12.986	580305	40.5413726	1351	0		0	166
Unknown					CAS #:		
14.428	302439	21.1290002	704.3	0		0	166

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2453.D  
 Report Date: 16-Apr-2010 12:06

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2453.D Calibration Time: 11:13  
 Lab Smp Id: LXNKJ1AE Client Smp ID: RE12-10-15445  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-006 (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	94266	-7.78
48 Naphthalene-d8	360526	180263	721052	336654	-6.62
82 Acenaphthene-d10	206190	103095	412380	194139	-5.84
121 Phenanthrene-d10	415780	207890	831560	384800	-7.45
153 Chrysene-d12	446285	223143	892570	404666	-9.33
166 Perylene-d12	410994	205497	821988	234858	-42.86

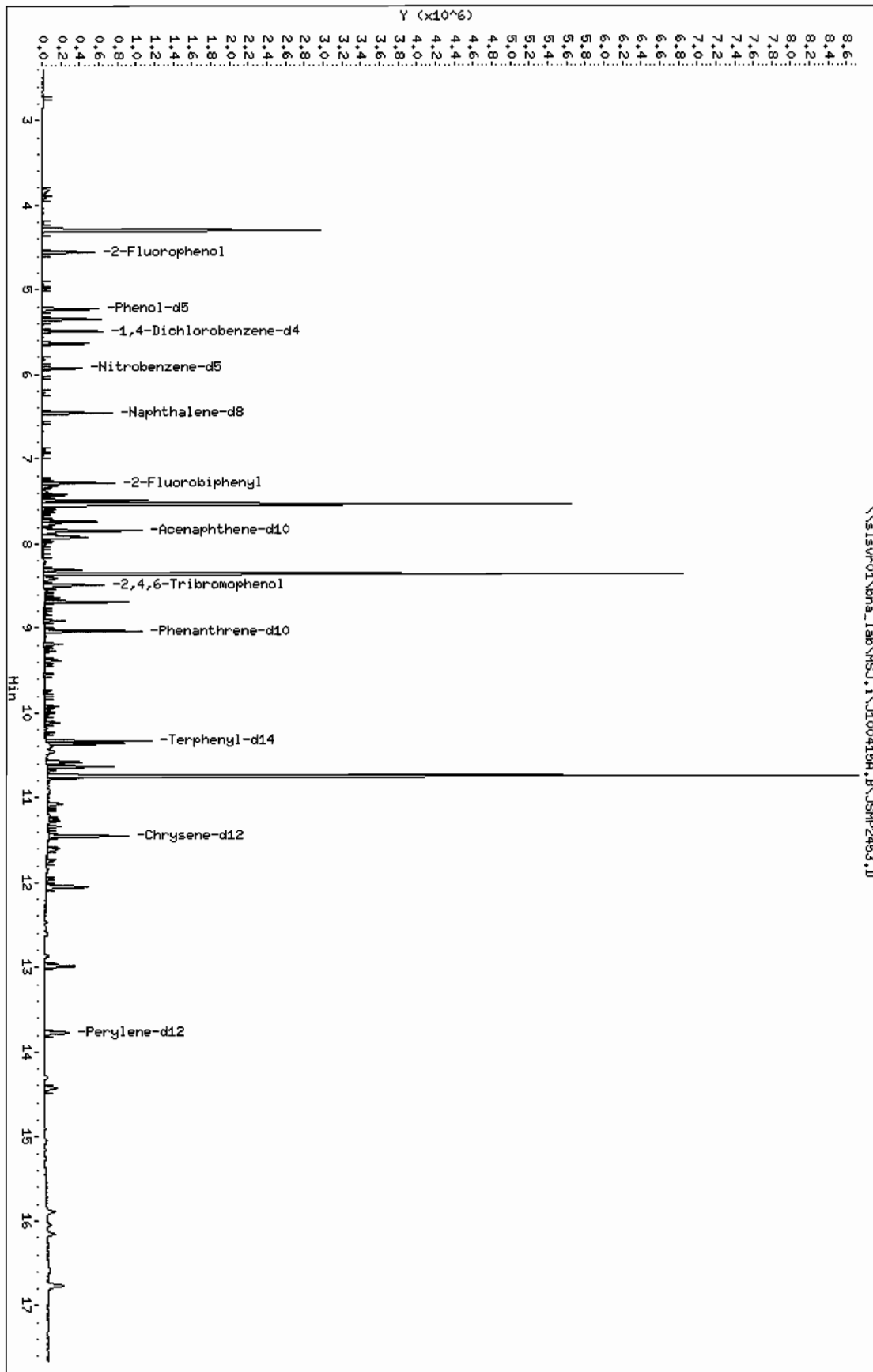
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.05
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	-0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.03
153 Chrysene-d12	11.45	10.95	11.95	11.45	-0.02
166 Perylene-d12	13.78	13.28	14.28	13.78	-0.02

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: \\slsvr01\bna\_lab\MSJ.1\J100415A.B\JSHF2453.D  
Date: 15-APR-2010 21:20  
Client ID: RE12-10-15445  
Sample Info: LYNKJ1AE  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.1  
Operator: JM/HAK  
Column diameter: 2.00

Page 1





Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2453.D

Page 1

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

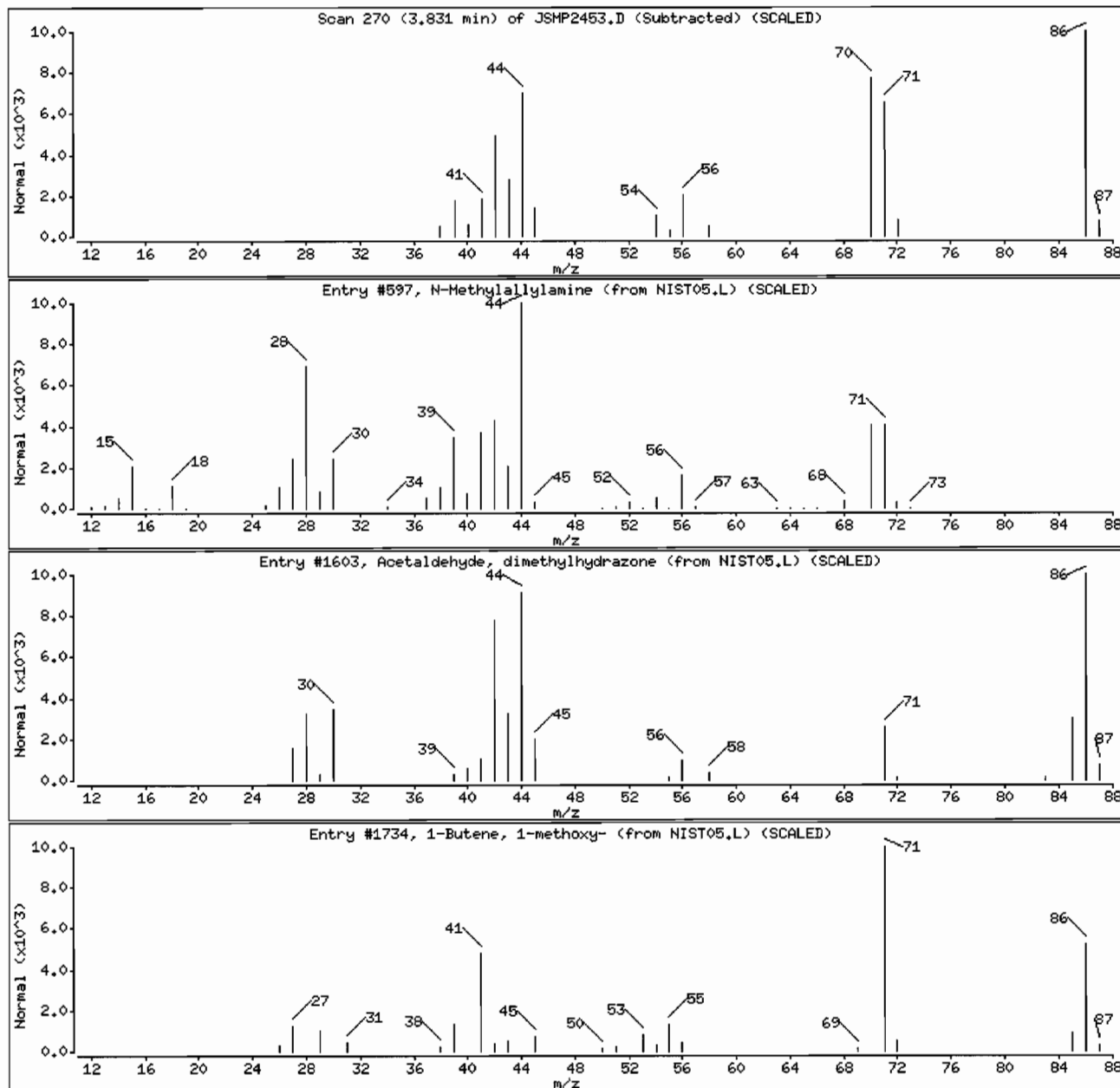
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
N-Methylallylamine	627-37-2	NIST05.L	597	50	C4H9N	71
Acetaldehyde, dimethylhydrazone	7422-90-4	NIST05.L	1603	49	C4H10N2	86
1-Butene, 1-methoxy-	29512-02-5	NIST05.L	1734	30	C5H10O	86



Data File: \\slsvr01\\bna\_lab\\MSJ.i\\J100415A.E\\JSMP2453.D

Page 2

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

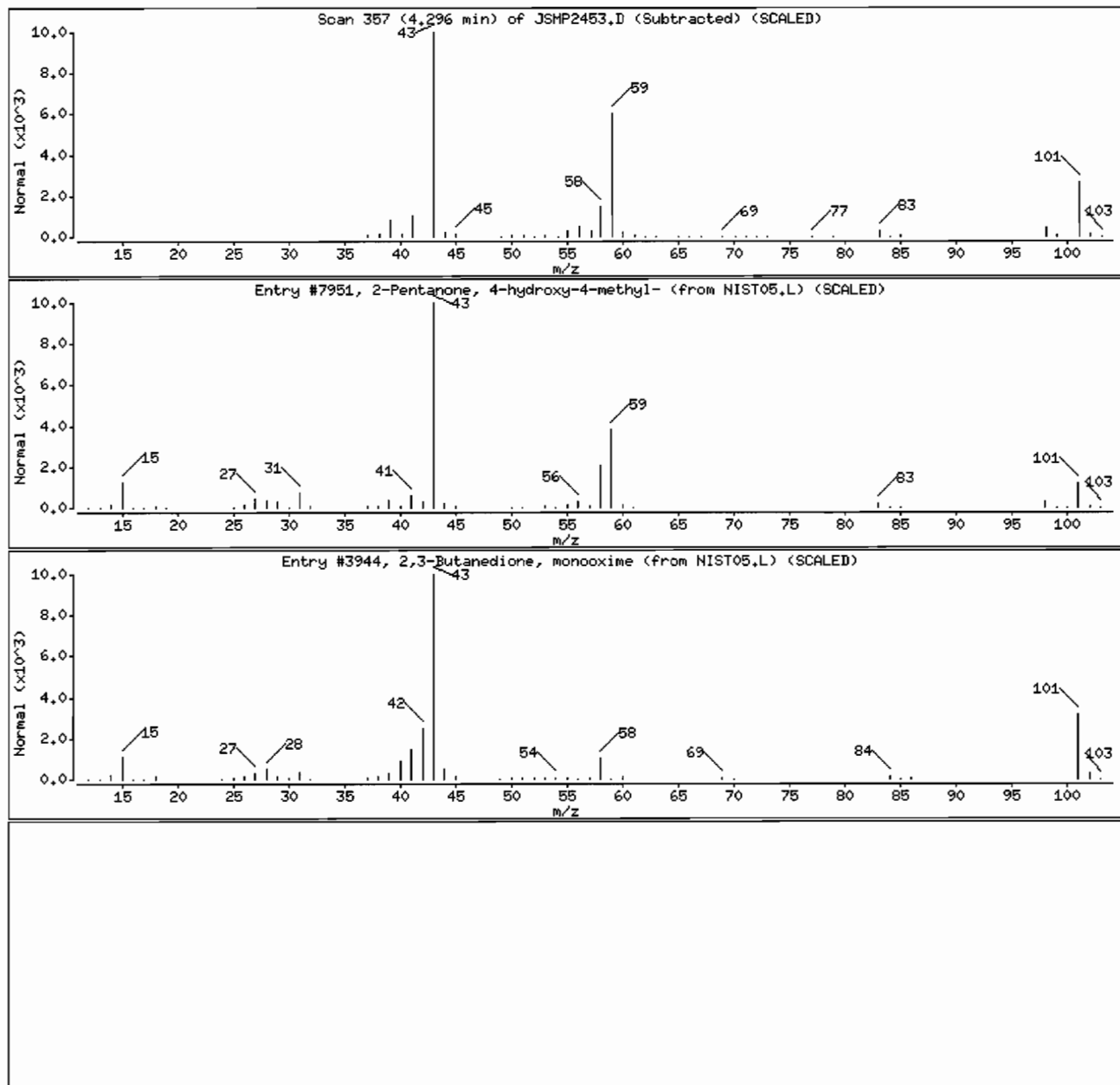
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\\kna\_lab\\MSJ,i\\J100415A,B\\JSMF2453.D

Page 3

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

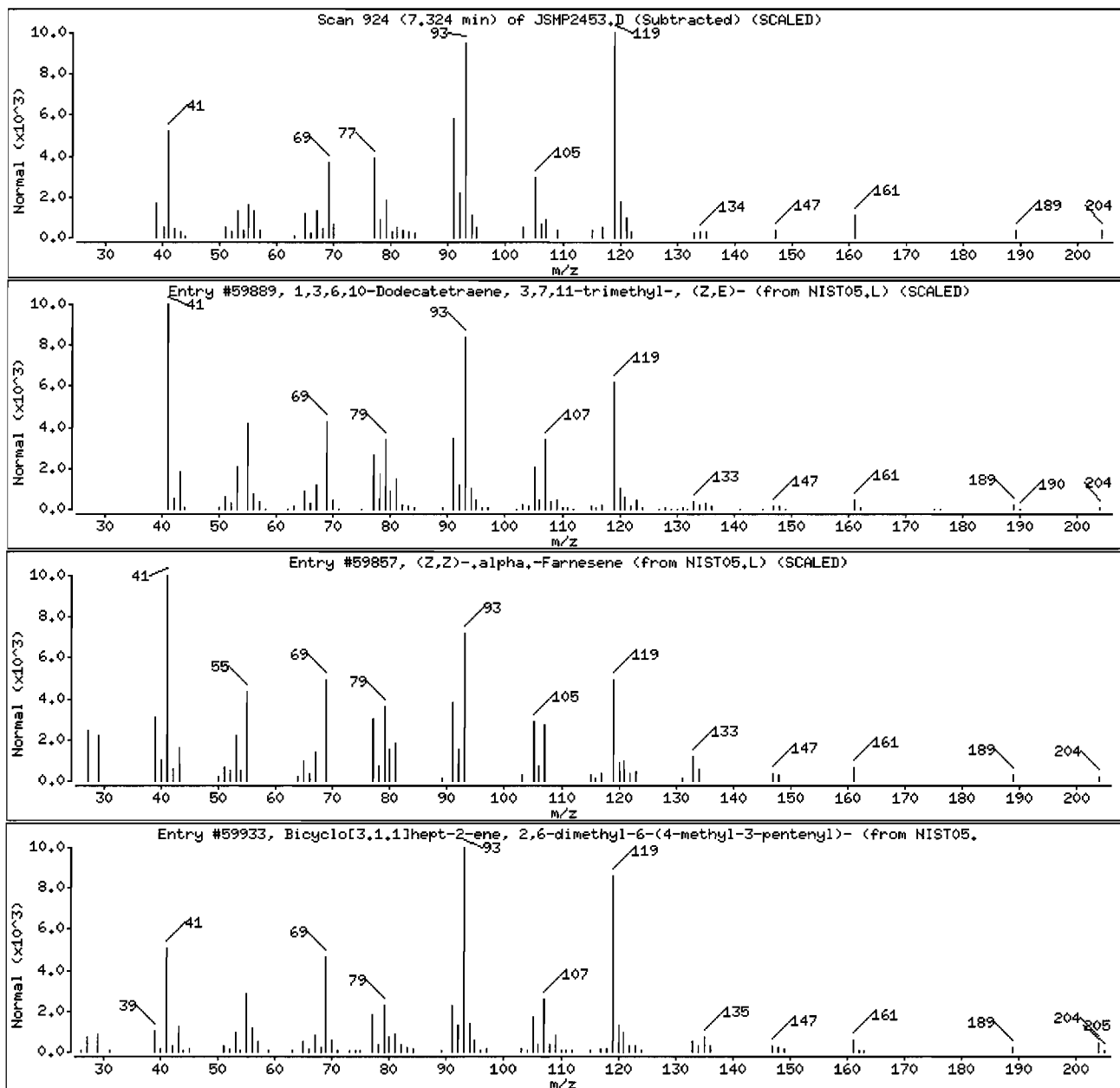
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,3,6,10-Dodecatetraene, 3,7,11-trimethyl	26560-14-5	NIST05.L	59889	90	C15H24	204
(Z,Z)-,alpha,-Farnesene	1000293-03-1	NIST05.L	59857	59	C15H24	204
Bicyclo[3.1.1]hept-2-ene, 2,6-dimethyl-6	17699-05-7	NIST05.L	59933	59	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMF2453.D

Page 4

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

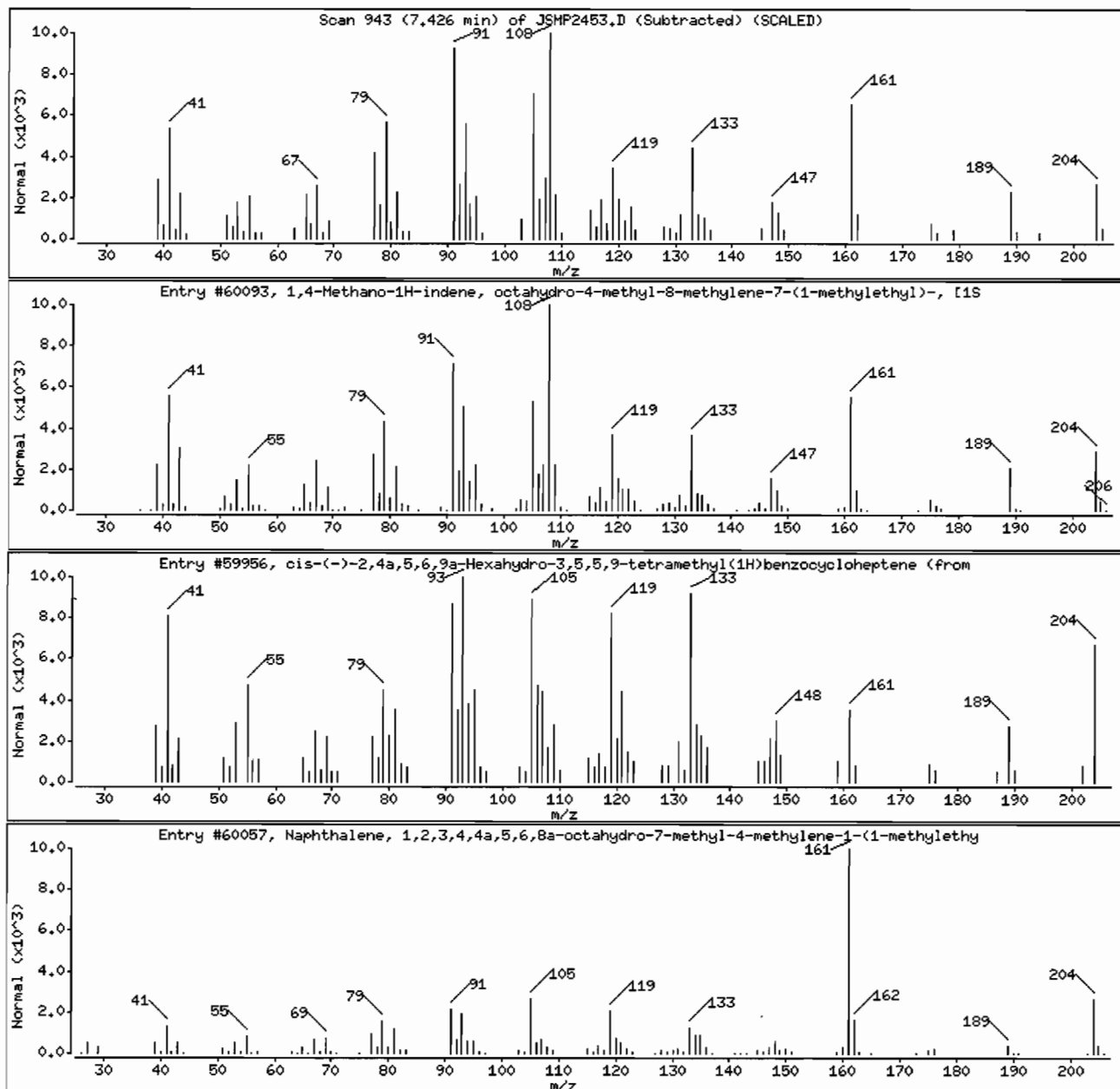
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,4-Methano-1H-indene, octahydro-4-methy	3650-28-0	NIST05.L	60093	99	C15H24	204
cis-(-)-2,4a,5,6,9a-Hexahydro-3,5,5,9-te	1000104-20-1	NIST05.L	59956	93	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	39029-41-9	NIST05.L	60057	74	C15H24	204



Data File: \\slsvr01\lona\_lab\MSJ,i\J100415A,B\JSMP2453.D

Page 5

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

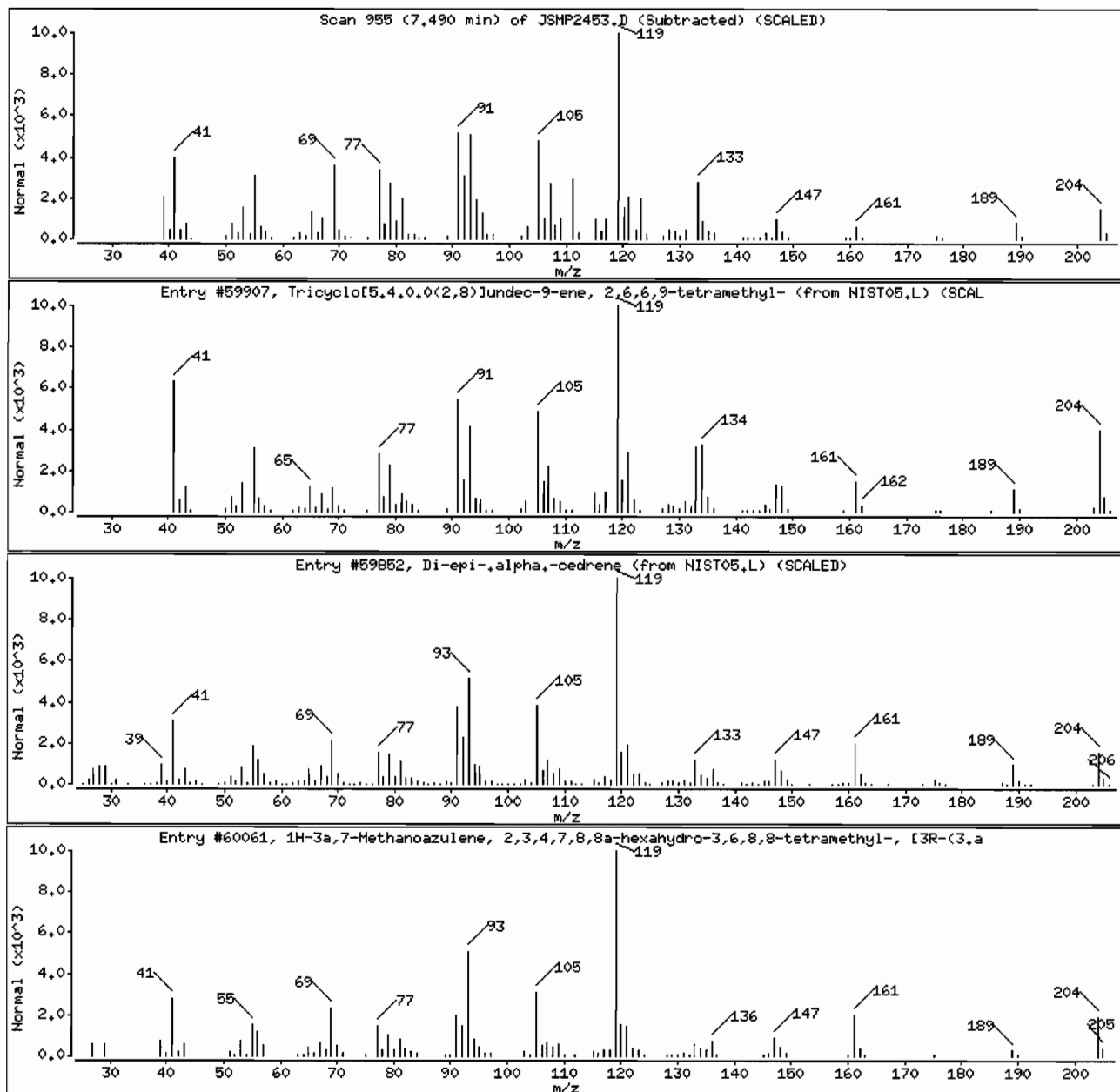
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tricyclo[5.4.0.0(2,8)]undec-9-ene, 2,6,6	5989-08-2	NIST05.L	59907	86	C15H24	204
Di-epi-.alpha.-cedrene	1000156-13-3	NIST05.L	59852	70	C15H24	204
1H-3a,7-Methanoazulene, 2,3,4,7,8,8a-hex	469-61-4	NIST05.L	60061	53	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSM2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

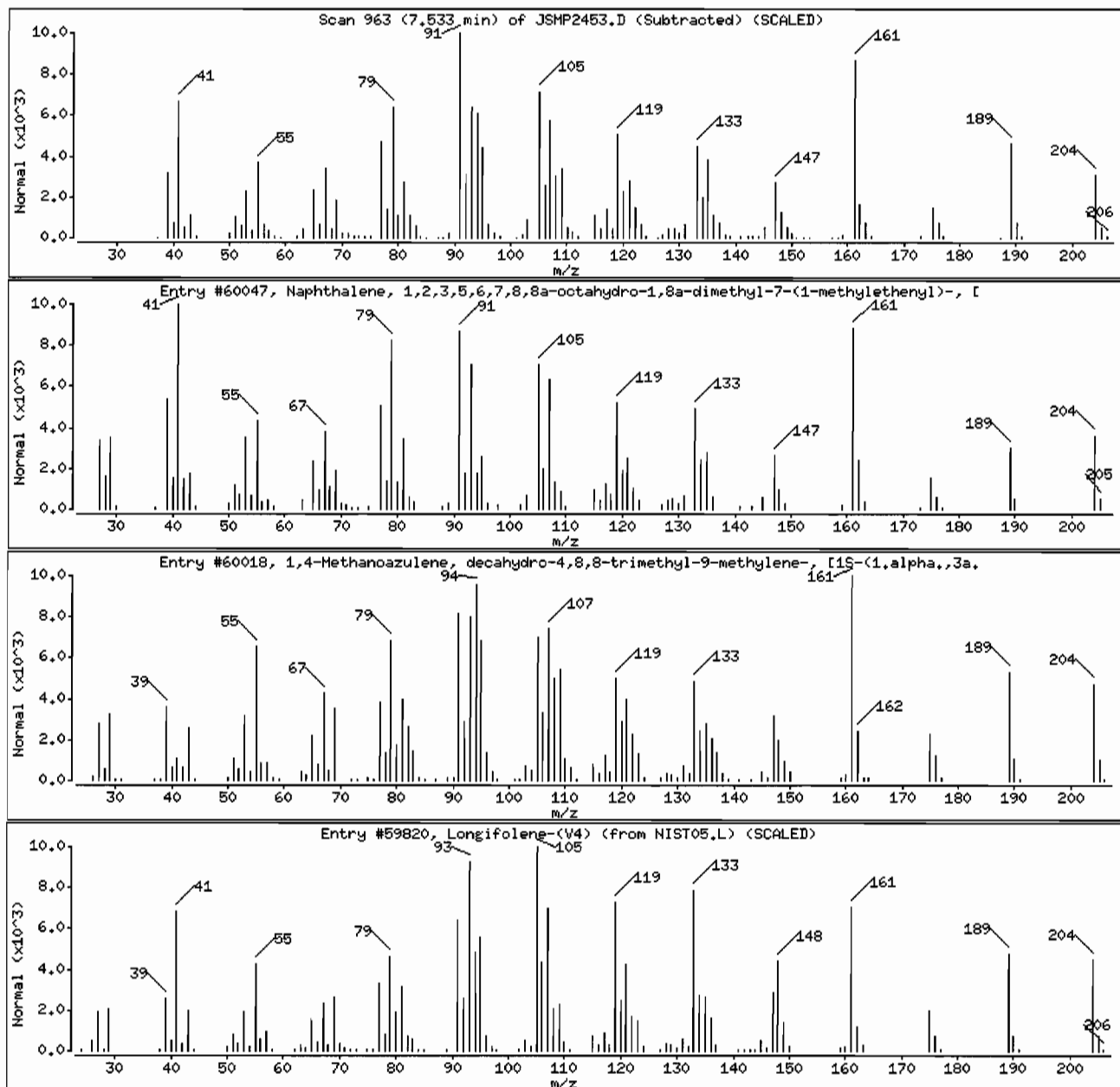
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60047	98	C15H24	204
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	NIST05.L	60018	96	C15H24	204
Longifolene-(V4)	61262-67-7	NIST05.L	59820	92	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMF2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

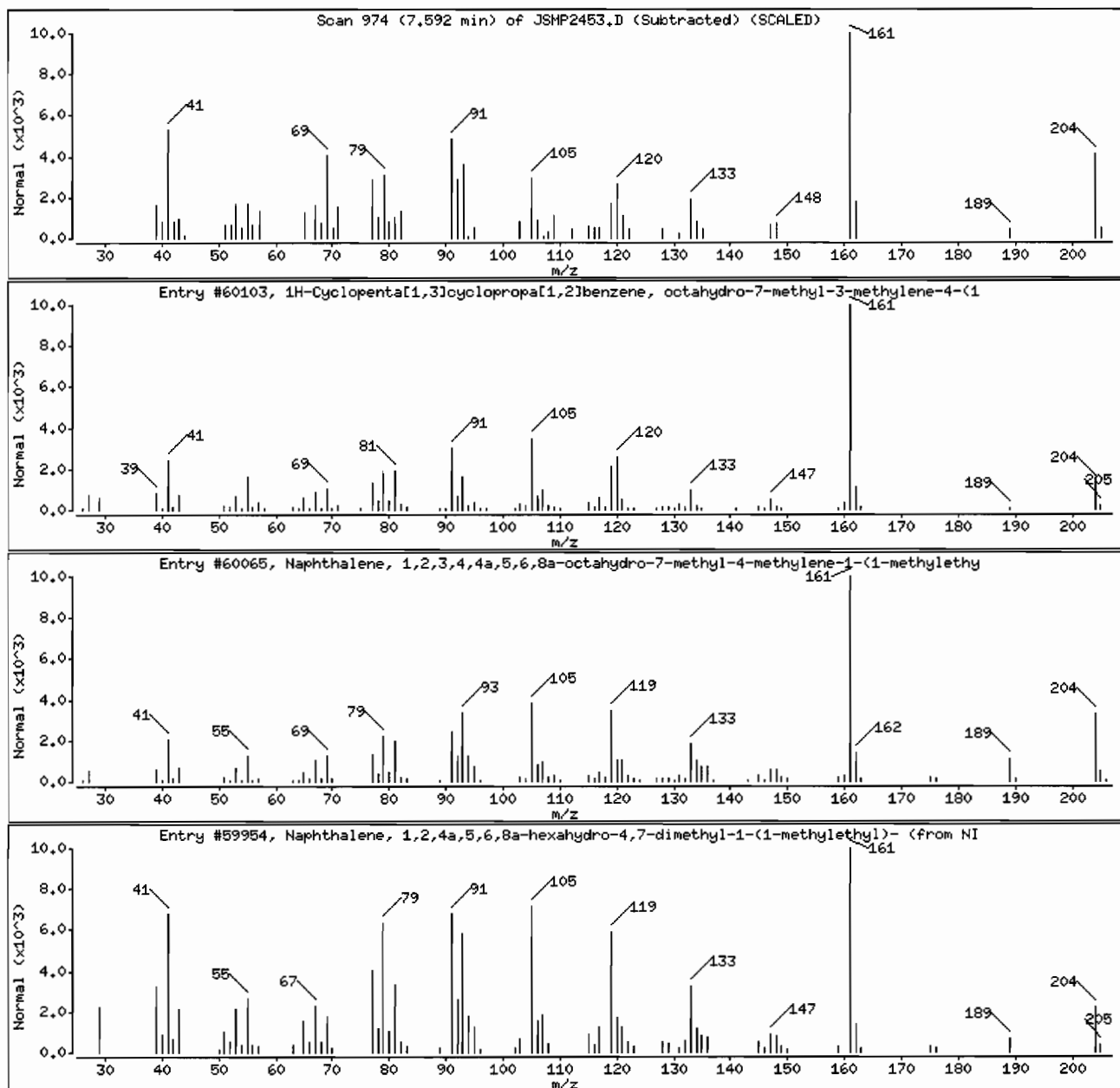
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cyclopenta[1,3]cyclopropa[1,2]benzene	13744-15-5	NIST05.L	60103	81	C15H24	204
Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	30021-74-0	NIST05.L	60065	76	C15H24	204
Naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7	483-75-0	NIST05.L	59954	70	C15H24	204



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LKXKJ1AE

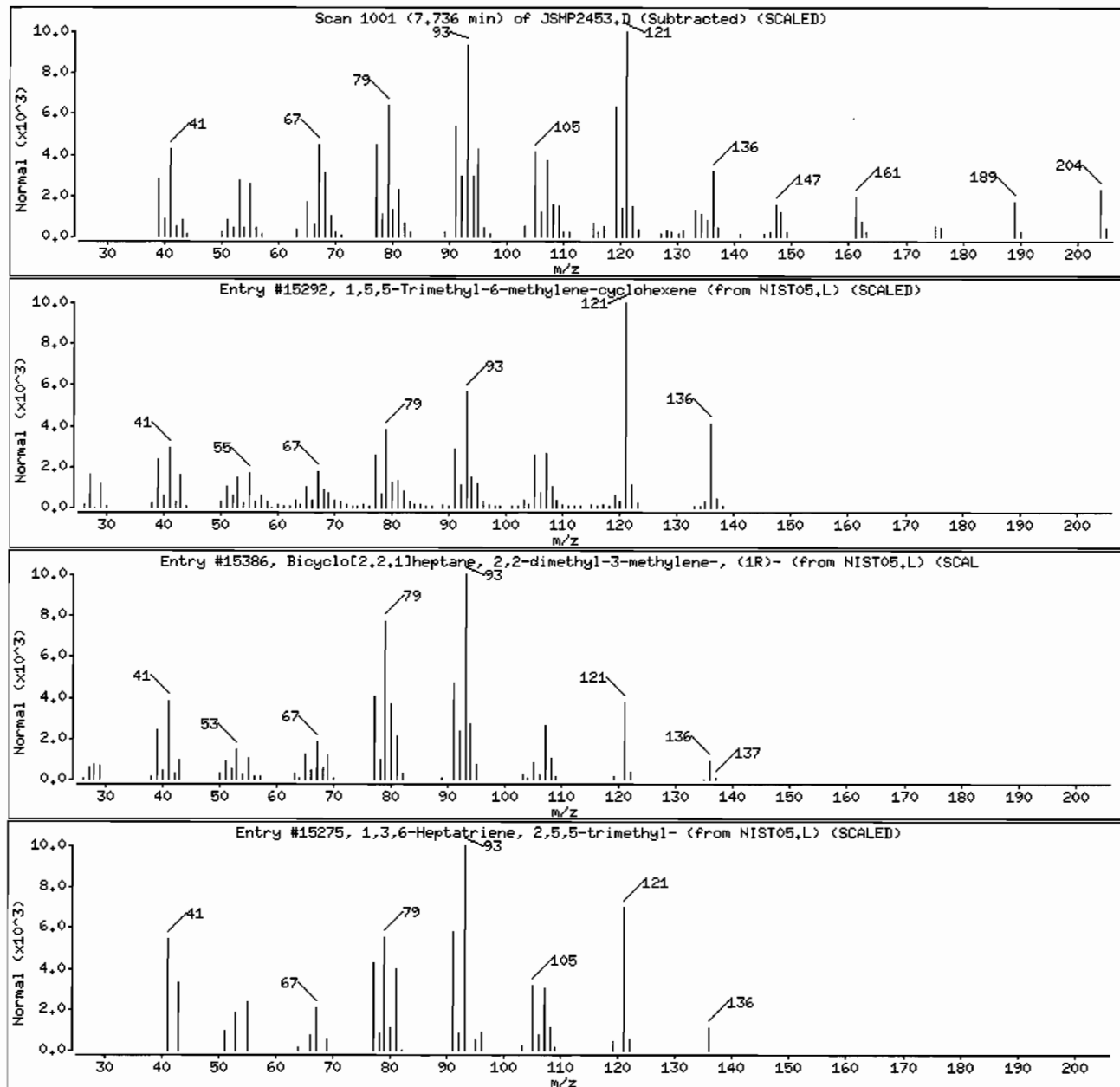
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,5,5-Trimethyl-6-methylene-cyclohexene	514-95-4	NIST05.L	15292	89	C10H16	136
Bicyclo[2,2,1]heptane, 2,2-dimethyl-3-me	5794-03-6	NIST05.L	15386	89	C10H16	136
1,3,6-Heptatriene, 2,5,5-trimethyl-	29548-02-5	NIST05.L	15275	83	C10H16	136





Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

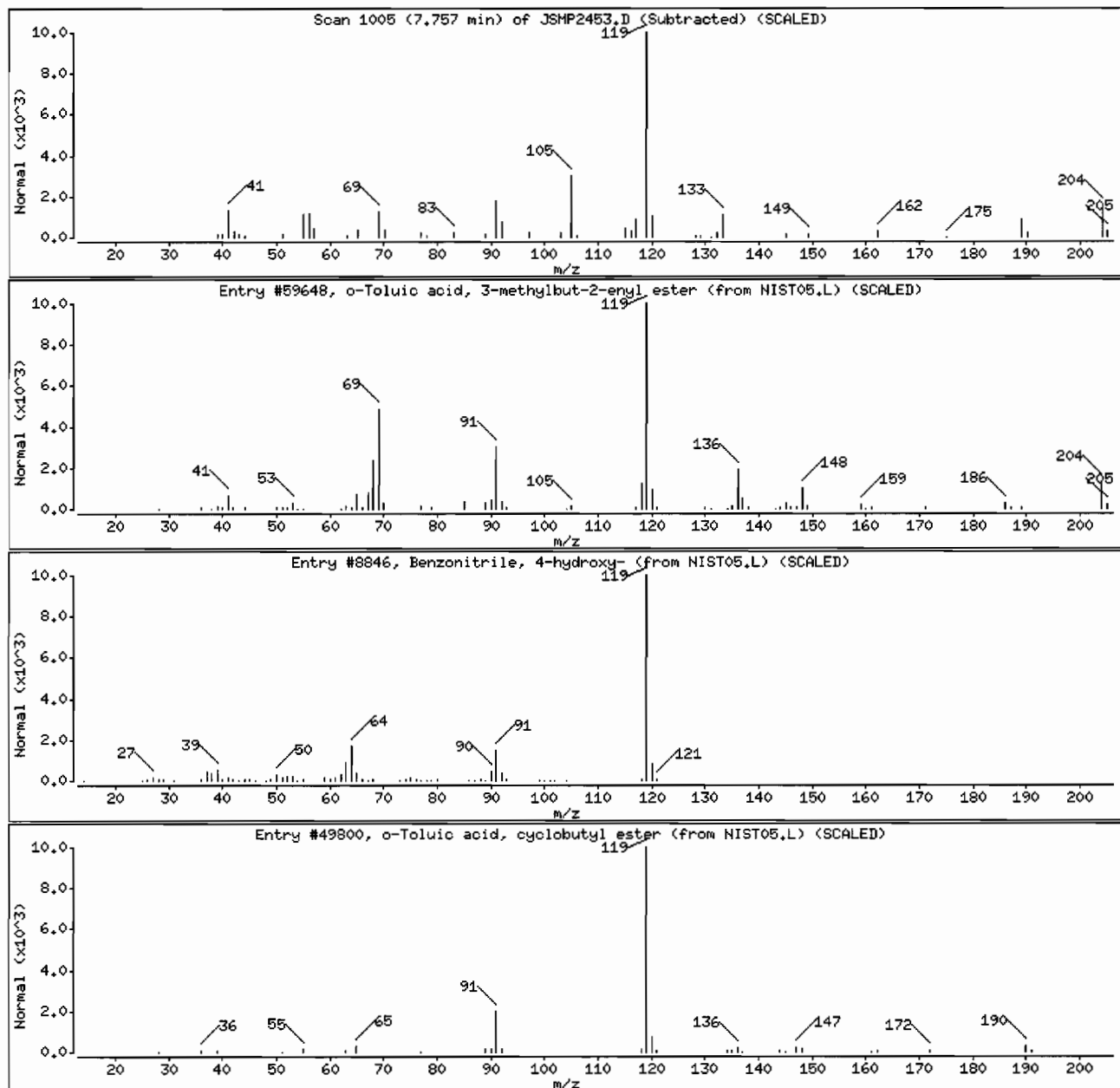
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
o-Toluic acid, 3-methylbut-2-enyl ester	1000292-51-1	NIST05.L	59648	47	C13H16O2	204
Benzonitrile, 4-hydroxy-	767-00-0	NIST05.L	8846	47	C7H5NO	119
o-Toluic acid, cyclobutyl ester	1000292-22-3	NIST05.L	49800	47	C12H14O2	190



Data File: \\slsvr01\\bna\_lab\\MSJ.i\\J100415A.B\\JSMP2453.D

Page 10

Date: 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

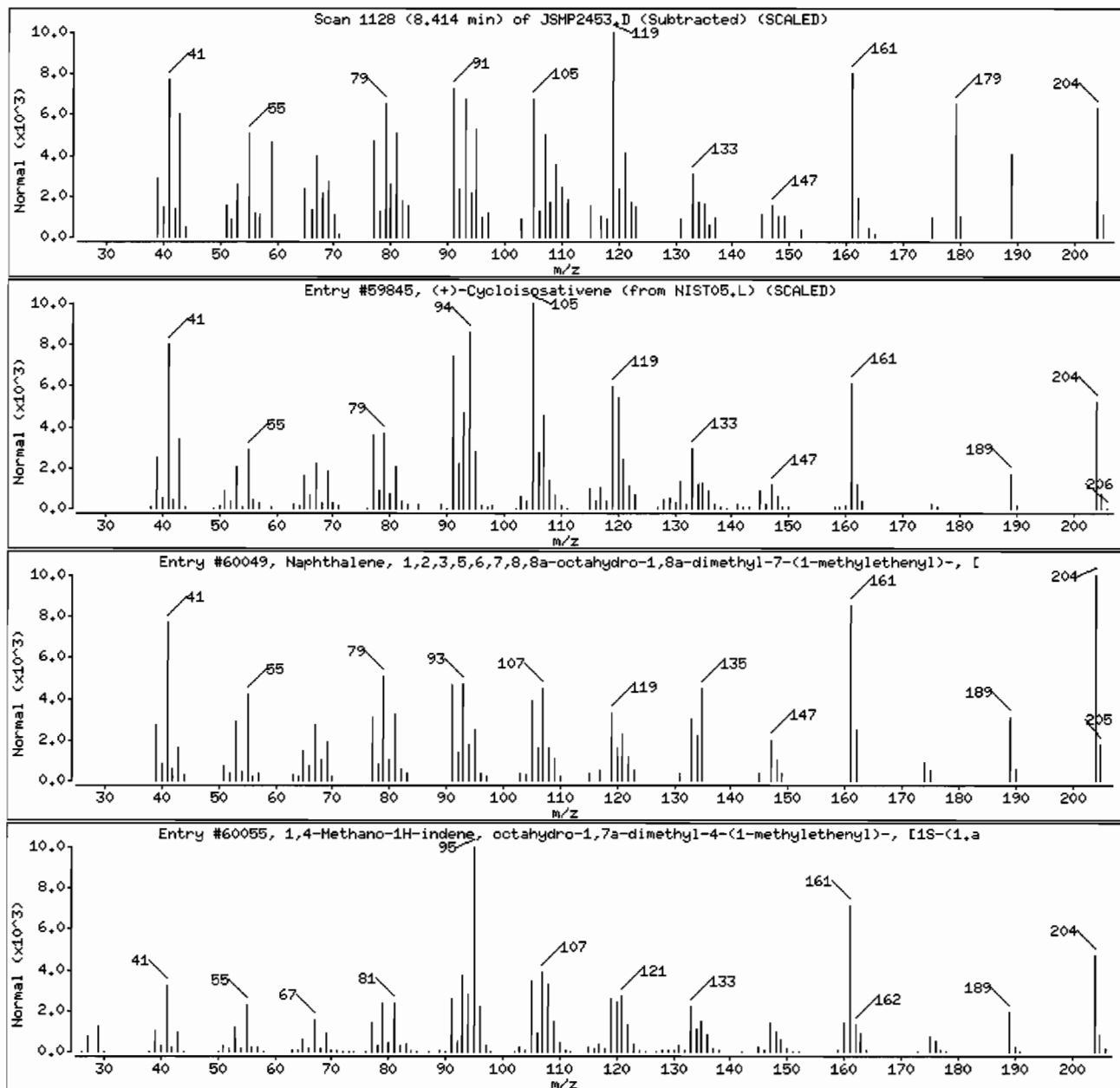
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
(+)-Cycloisosativene	1000109-88-1	NIST05.L	59845	78	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST05.L	60049	70	C15H24	204
1,4-Methano-1H-indene, octahydro-1,7a-di	87064-18-4	NIST05.L	60055	64	C15H24	204



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2453.D

Page 11

Date: 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

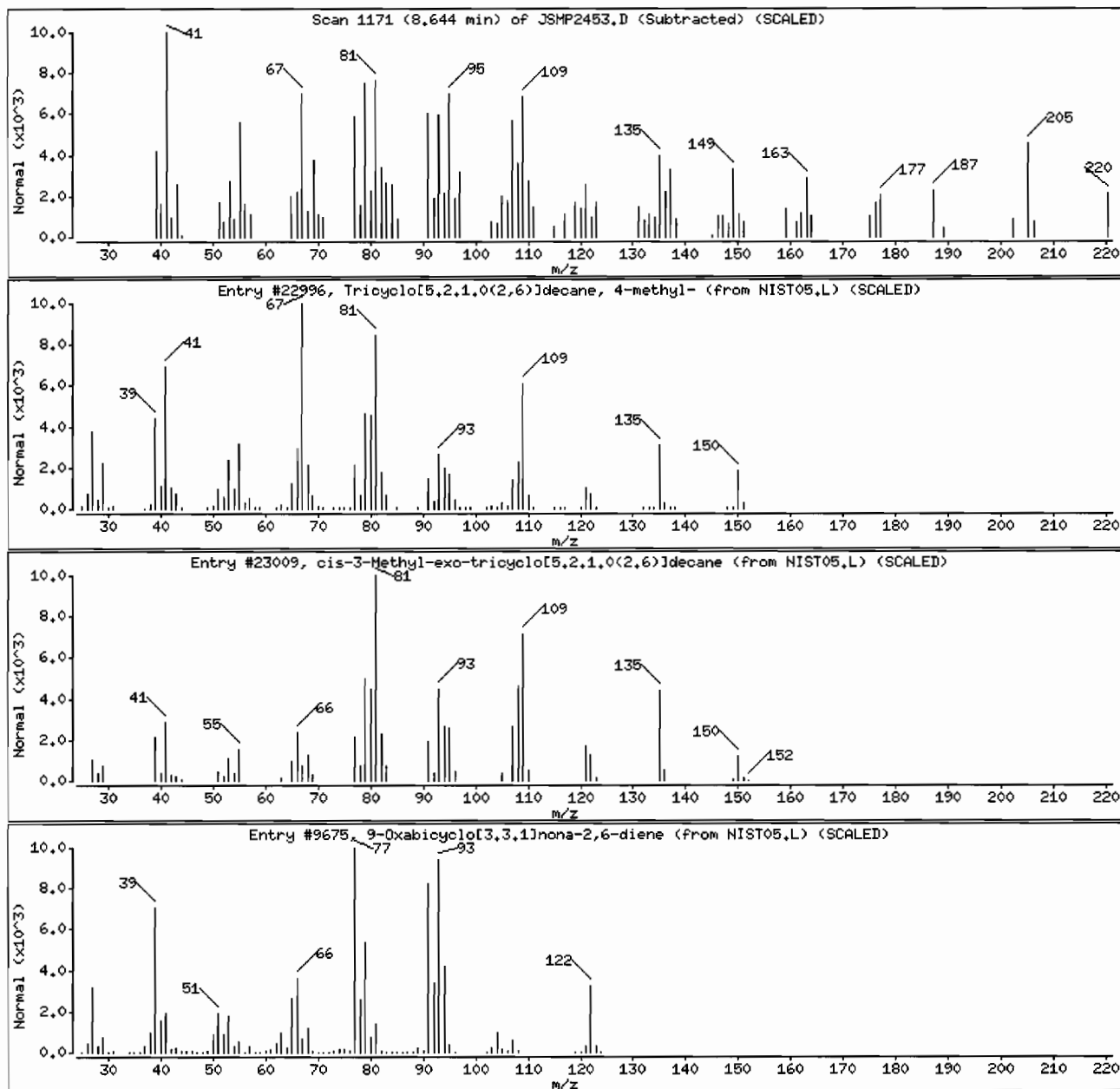
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tricyclo[5.2.1.0(2,6)]decane, 4-methyl-	1000150-03-4	NIST05.L	22996	60	C11H18	150
cis-3-Methyl-exo-tricyclo[5.2.1.0(2,6)]d	1000215-28-9	NIST05.L	23009	60	C11H18	150
9-Oxabicyclo[3.3.1]nona-2,6-diene	10299-48-6	NIST05.L	9675	55	C8H10O	122



Data File: \\slsvr01\kna\_lab\MSJ.i\J100415A.B\JSHP2453.D

Page 12

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

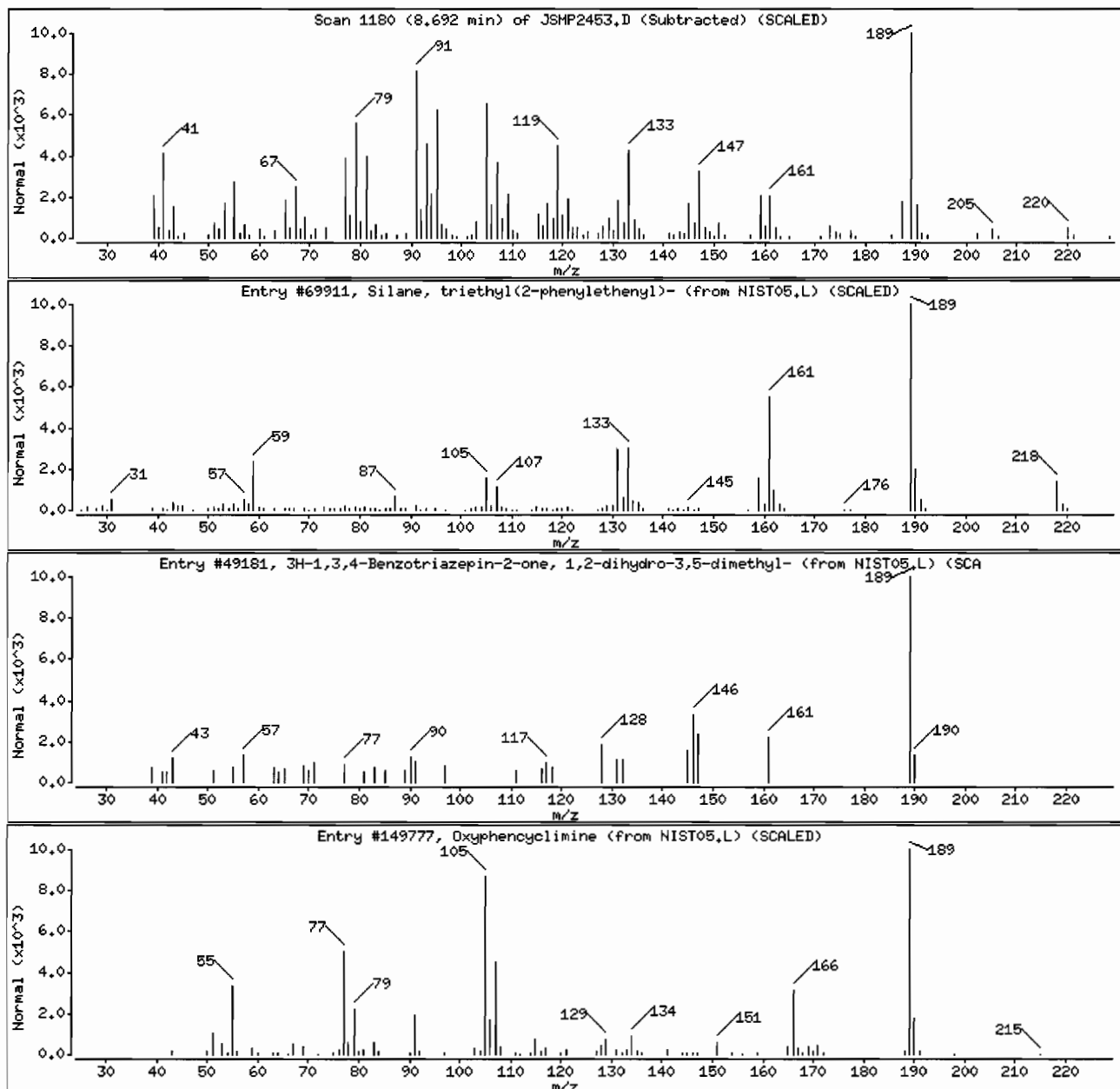
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silane, triethyl(2-phenylethynyl)-	1206-29-7	NIST05.L	69911	25	C14H22Si	218
3H-1,3,4-Benzotriazepin-2-one, 1,2-dihyd	105999-05-1	NIST05.L	49181	25	C10H11N3O	189
Oxyphenacylimine	125-53-1	NIST05.L	149777	18	C20H28N2O3	344



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHP2453.D

Page 13

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

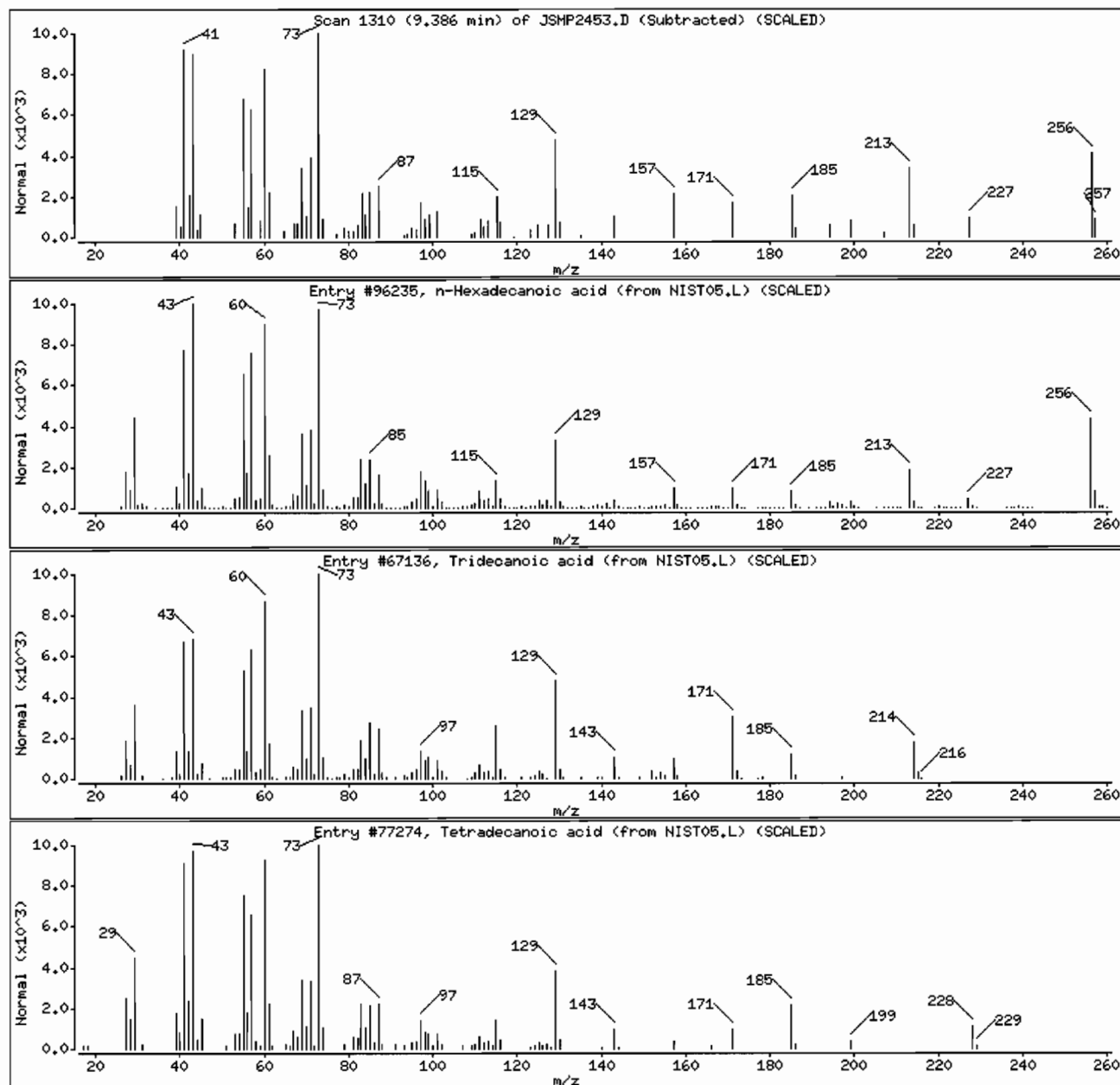
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
n-Hexadecanoic acid	57-10-3	NIST05.L	96235	96	C16H32O2	256
Tridecanoic acid	638-53-9	NIST05.L	67136	93	C13H26O2	214
Tetradecanoic acid	544-63-8	NIST05.L	77274	76	C14H28O2	228



Data File: \\slsvr01\hna\_lab\MSJ.i\J100415A.B\JSP2453.D

Page 14

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

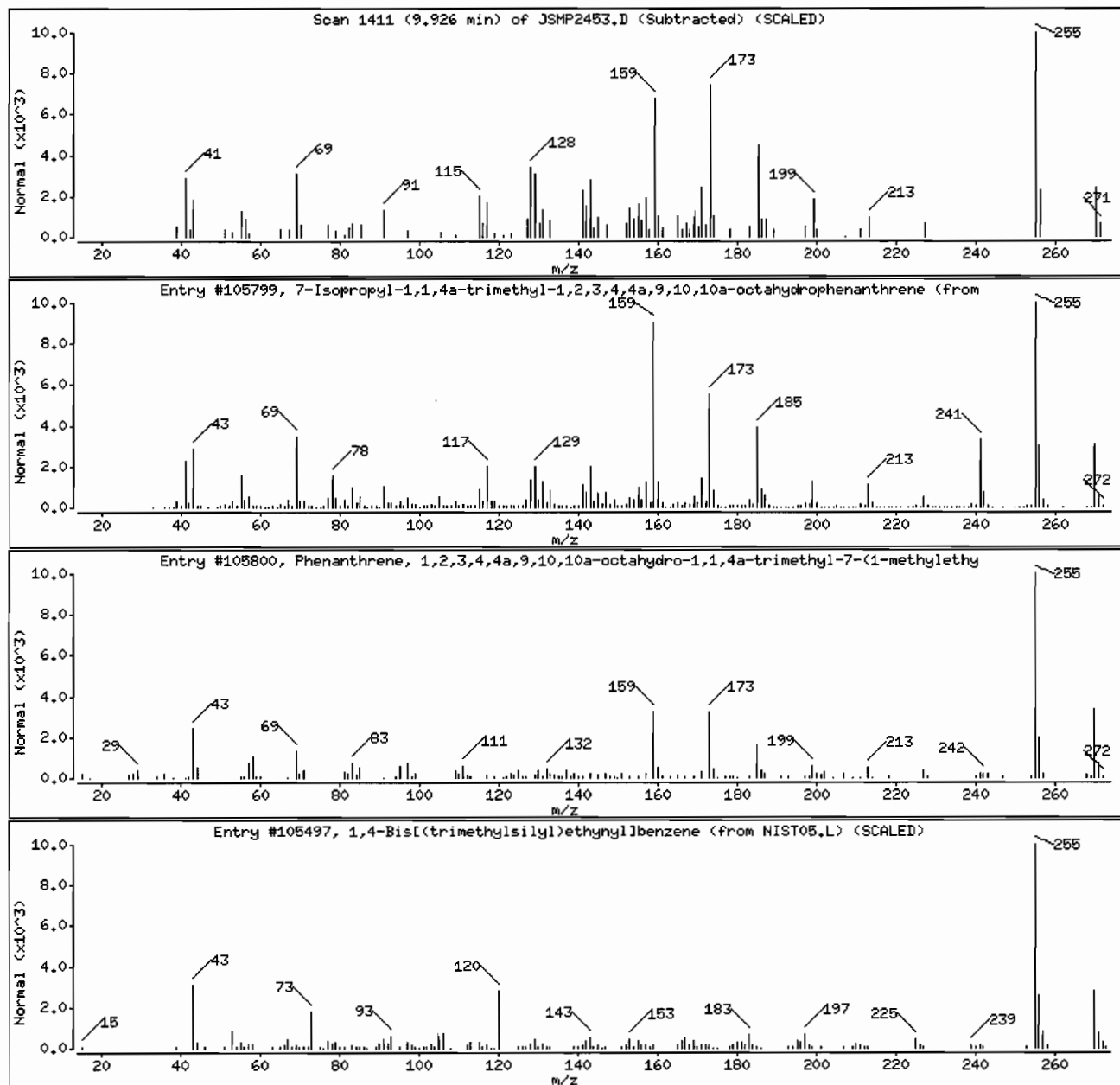
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,	1000210-28-9	NIST05.L	105799	70	C20H30	270
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	19407-28-4	NIST05.L	105800	64	C20H30	270
1,4-Bis[(trimethylsilyl)ethynyl]benzene	73392-23-1	NIST05.L	105497	25	C16H22Si2	270



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMF2453.D

Page 15

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LKXKJ1AE

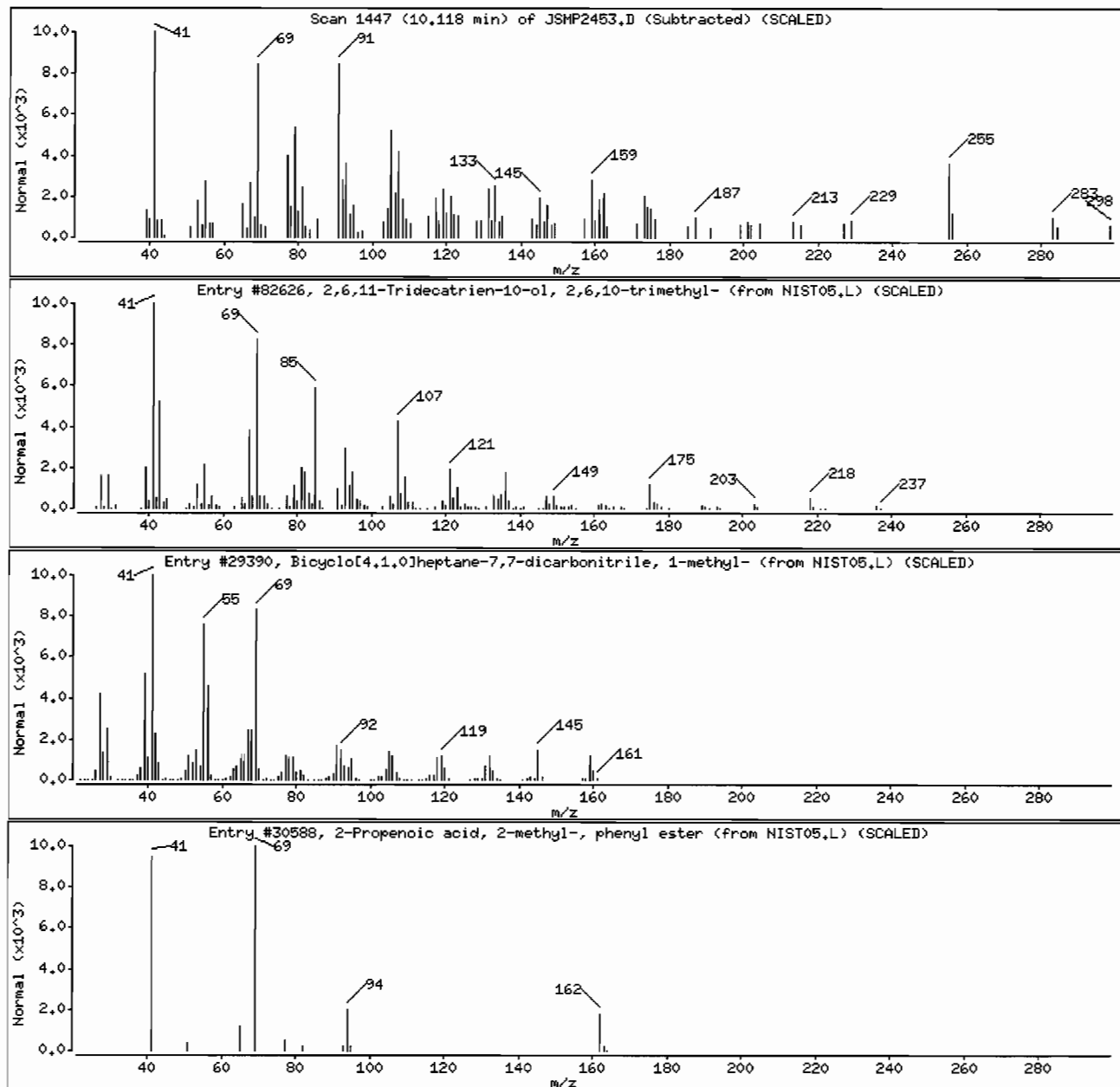
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,6,11-Tridecatrien-10-ol, 2,6,10-trimethyl-	1000161-90-4	NIST05.L	82626	27	C16H28O	236
Bicyclo[4.1.0]heptane-7,7-dicarbonitrile	74764-53-7	NIST05.L	29390	27	C10H12N2	160
2-Propenoic acid, 2-methyl-, phenyl ester	2177-70-0	NIST05.L	30588	25	C10H10O2	162



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LKXKJ1AE

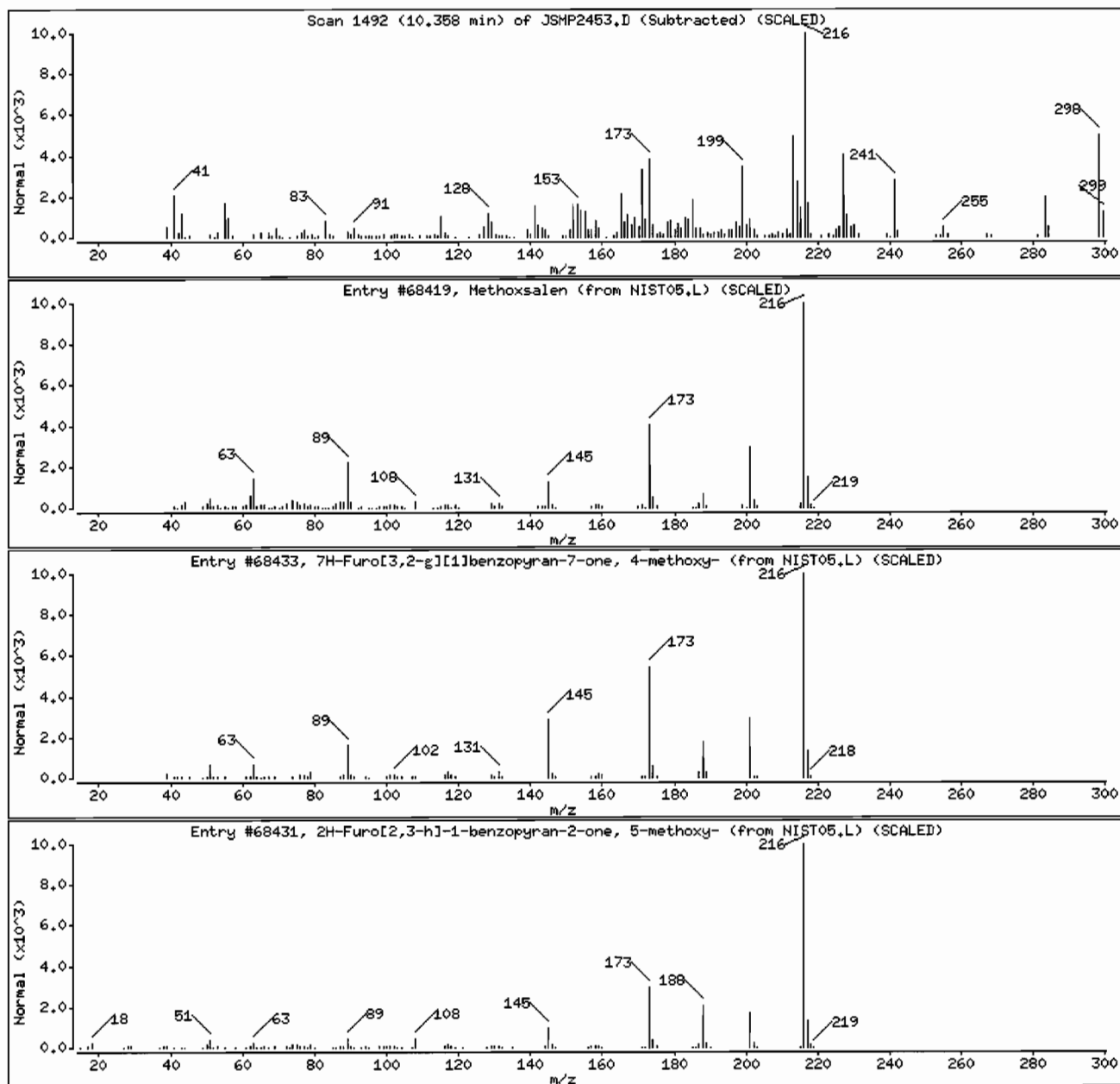
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methoxsalen	298-81-7	NIST05.L	68419	25	C12H8O4	216
7H-Furo[3,2-g][1]benzopyran-7-one, 4-met	484-20-8	NIST05.L	68433	22	C12H8O4	216
2H-Furo[2,3-h]-1-benzopyran-2-one, 5-met	482-48-4	NIST05.L	68431	22	C12H8O4	216





Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LKXKJ1AE

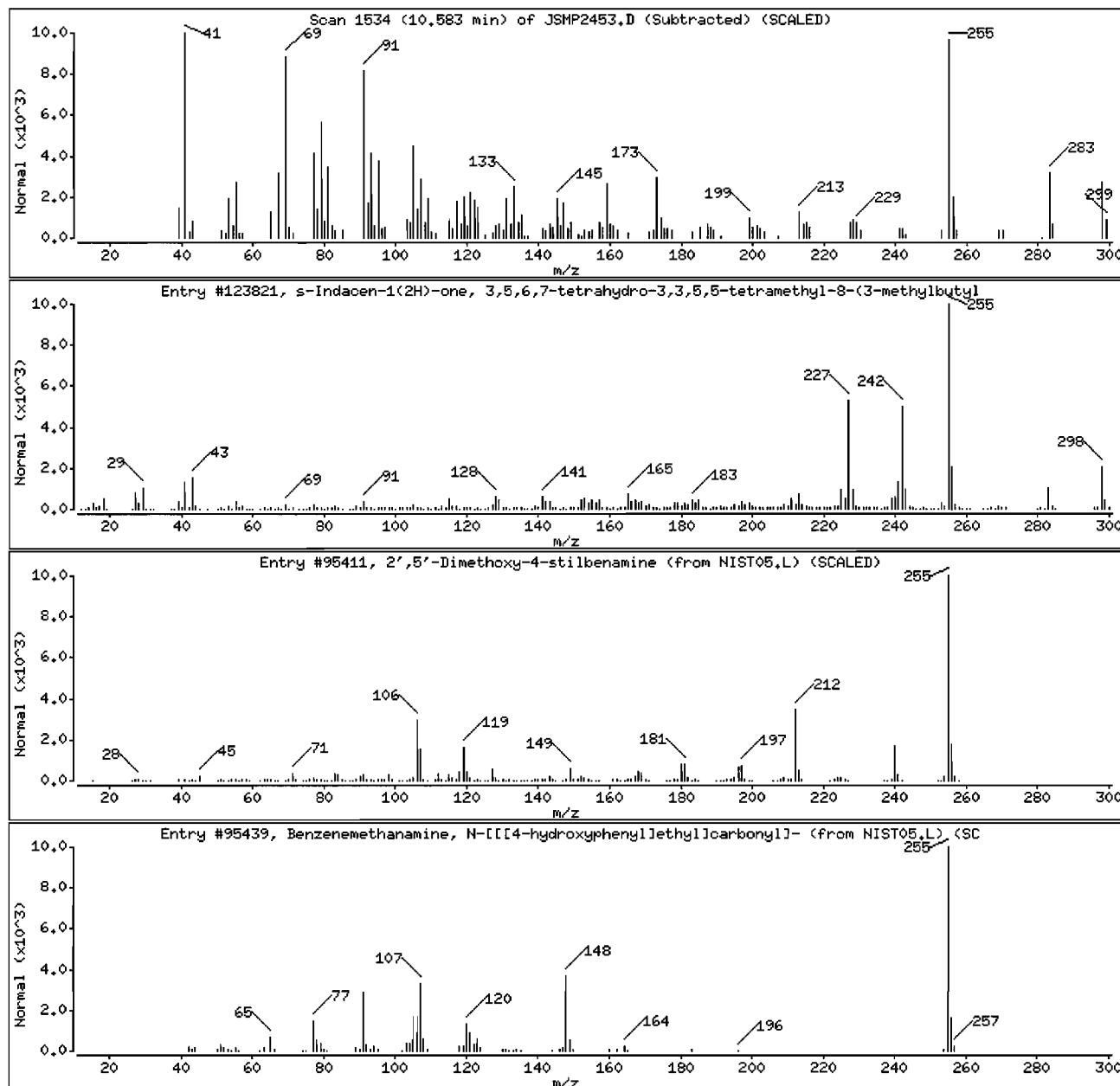
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
s-Indacen-1(2H)-one, 3,5,6,7-tetrahydro-	55712-64-6	NIST05.L	123821	27	C21H30O	298
2',5'-Dimethoxy-4-stilbenamine	5803-51-0	NIST05.L	95411	27	C16H17NO2	255
Benzenemethanamine, N-[[[4-hydroxyphenyl	74454-78-7	NIST05.L	95439	25	C16H17NO2	255



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2453.D

Page 18

Date: 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

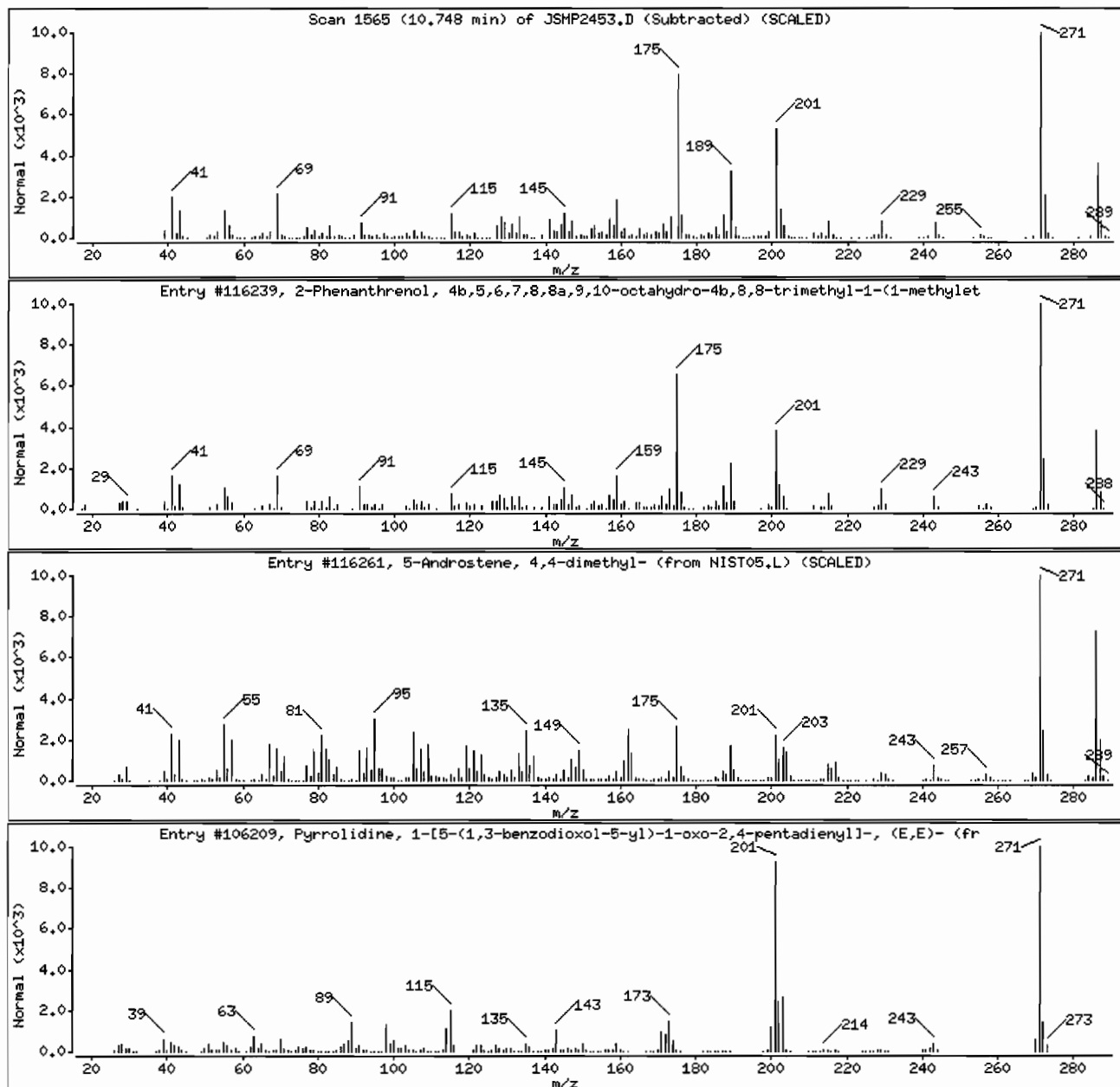
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	NIST05.L	116239	98	C20H30O	286
5-Androstene, 4,4-dimethyl-	1000194-15-4	NIST05.L	116261	38	C21H34	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	NIST05.L	106209	35	C16H17NO3	271



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSMP2453.D

Page 19

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

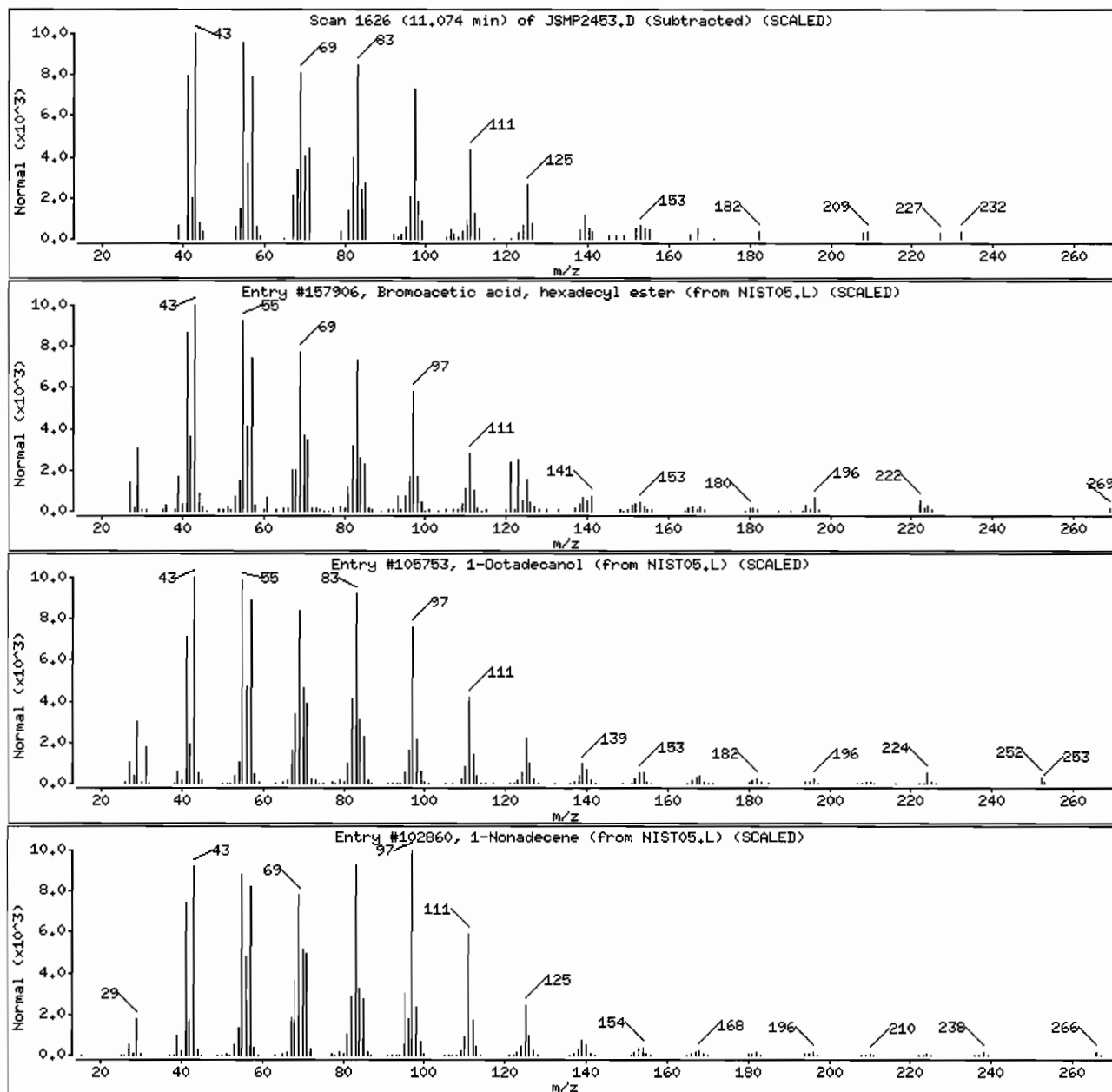
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bromoacetic acid, hexadecyl ester	5454-48-8	NIST05.L	157906	93	C18H35BrO2	362
1-Octadecanol	112-92-5	NIST05.L	105753	90	C18H38O	270
1-Nonadecene	18435-45-5	NIST05.L	102860	90	C19H38	266



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A.B\JSMF2453.D

Page 20

Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

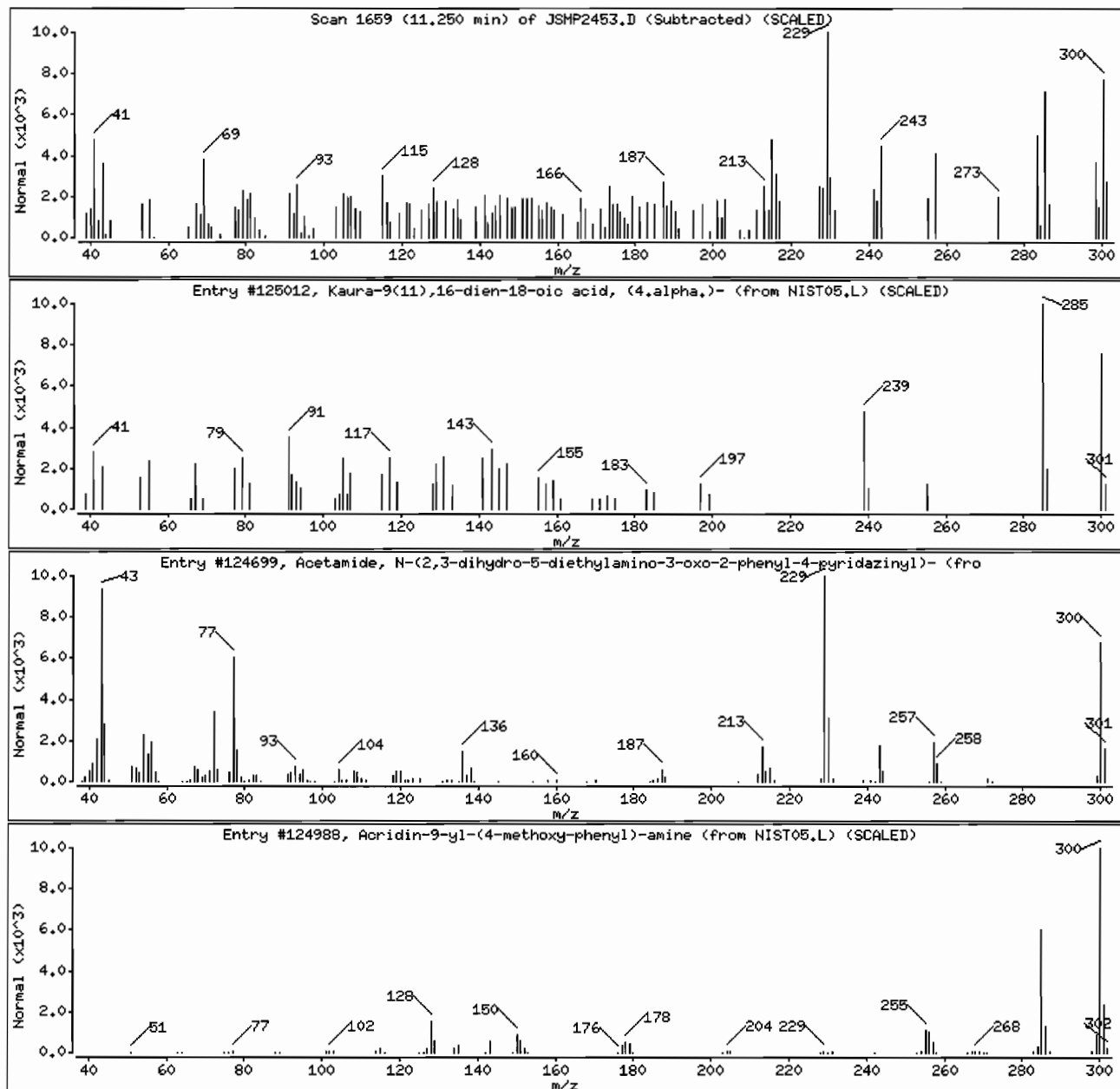
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Kaura-9(11),16-dien-18-oic acid, (4.alpha.	22338-67-6	NIST05.L	125012	49	C20H28O2	300
Acetamide, N-(2,3-dihydro-5-diethylamino	125291-77-2	NIST05.L	124699	43	C16H20N4O2	300
Acridin-9-yl-(4-methoxy-phenyl)-amine	1000317-35-5	NIST05.L	124988	35	C20H16N2O	300



Data File: \\slsvr01\lbnalab\MSJ.i\J100415A,B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

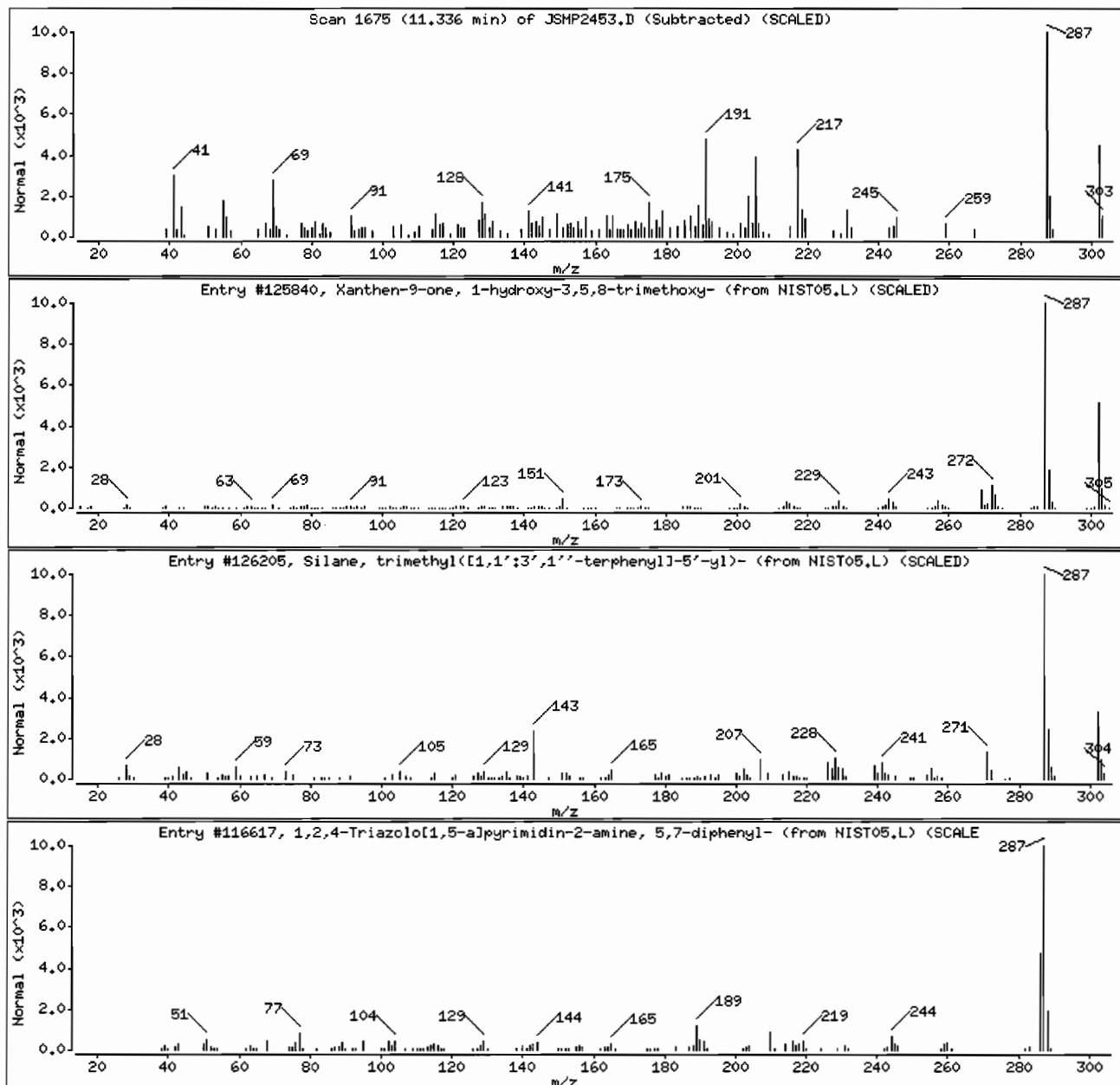
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Xanthen-9-one, 1-hydroxy-3,5,8-trimethoxy	49599-09-9	NIST05.L	125840	43	C16H14O6	302
Silane, trimethyl([1,1':3',1''-terphenyl	128388-53-4	NIST05.L	126205	38	C21H22Si	302
1,2,4-Triazolof[1,5-a]pyrimidin-2-amine,	76071-60-8	NIST05.L	116617	25	C17H13N5	287



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

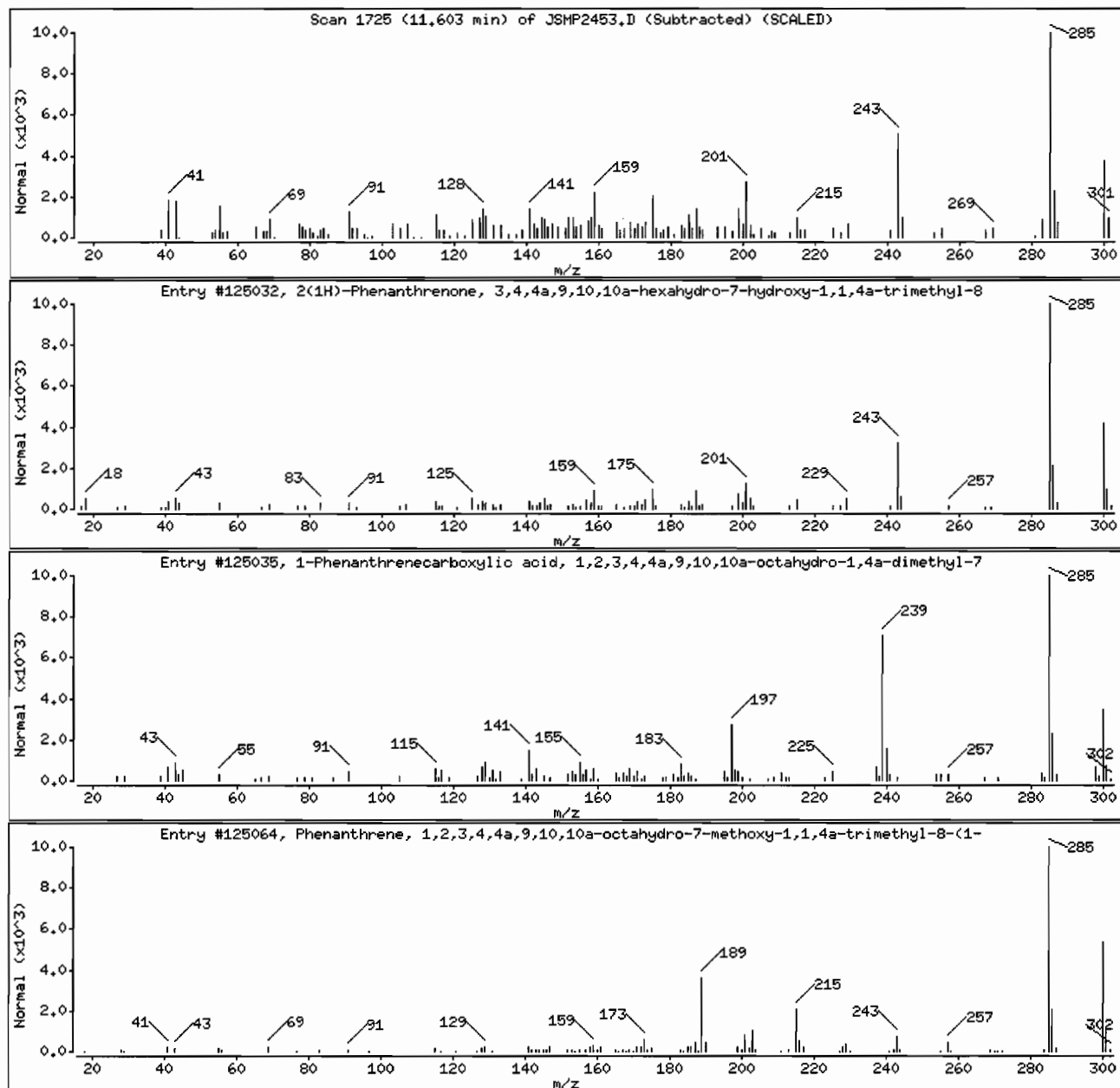
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-he	6755-93-7	NIST05.L	125032	94	C20H28O2	300
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	5155-70-4	NIST05.L	125035	43	C20H28O2	300
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	15340-83-7	NIST05.L	125064	43	C21H32O	300



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LXNKJ1AE

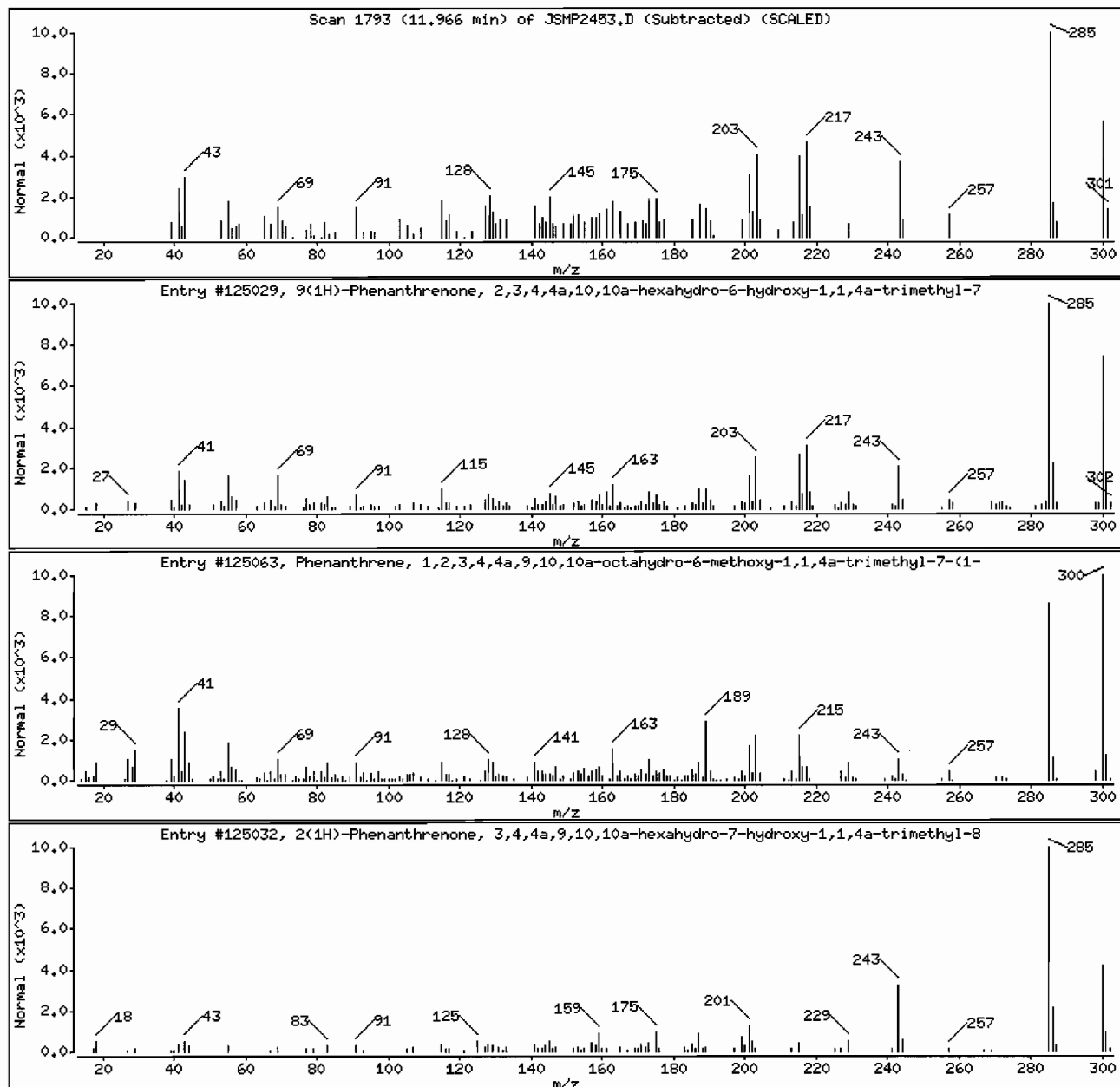
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9(1H)-Phenanthrenone, 2,3,4,4a,10,10a-he	511-05-7	NIST05.L	125029	97	C20H28O2	300
Phenanthrene, 1,2,3,4,4a,9,10,10a-octahy	10064-26-3	NIST05.L	125063	74	C21H32O	300
2(1H)-Phenanthrenone, 3,4,4a,9,10,10a-he	6755-93-7	NIST05.L	125032	55	C20H28O2	300



Data File: \\slsvr01\kna\_lab\MSJ.i\J100415A.B\JSMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LXNKJ1AE

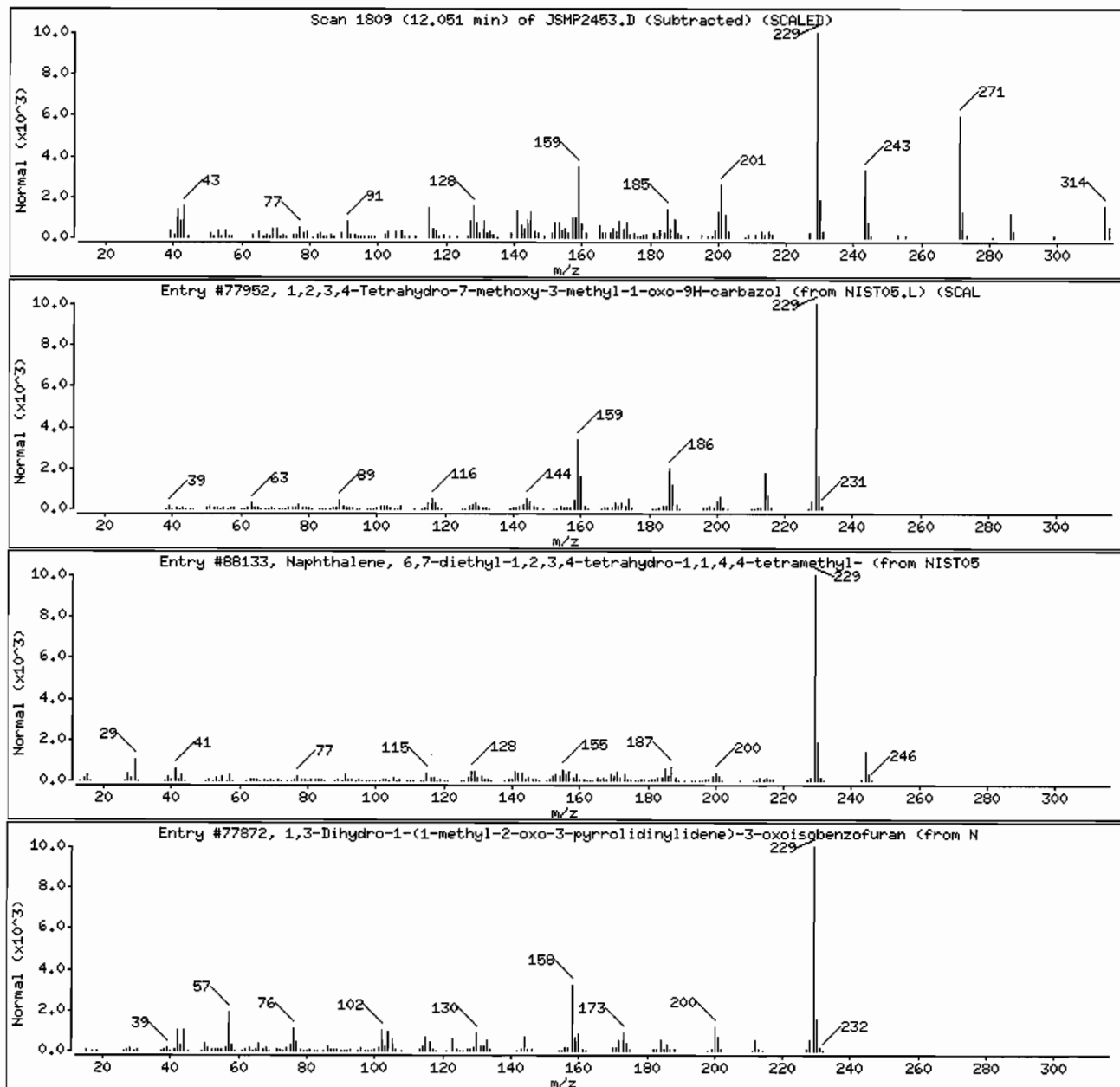
Volume Injected (uL): 1.0

Operator: JW/HAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,3,4-Tetrahydro-7-methoxy-3-methyl-1-Naphthalene, 6,7-diethyl-1,2,3,4-tetrahy	32550-51-9	NIST05.L	77952	45	C14H15N02	229
1,3-Dihydro-1-(1-methyl-2-oxo-3-pyrrolid	55741-10-1	NIST05.L	88133	42	C18H28	244
	3988-53-2	NIST05.L	77872	38	C13H11N03	229





Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHMP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ,i

Sample Info: LKXKJ1AE

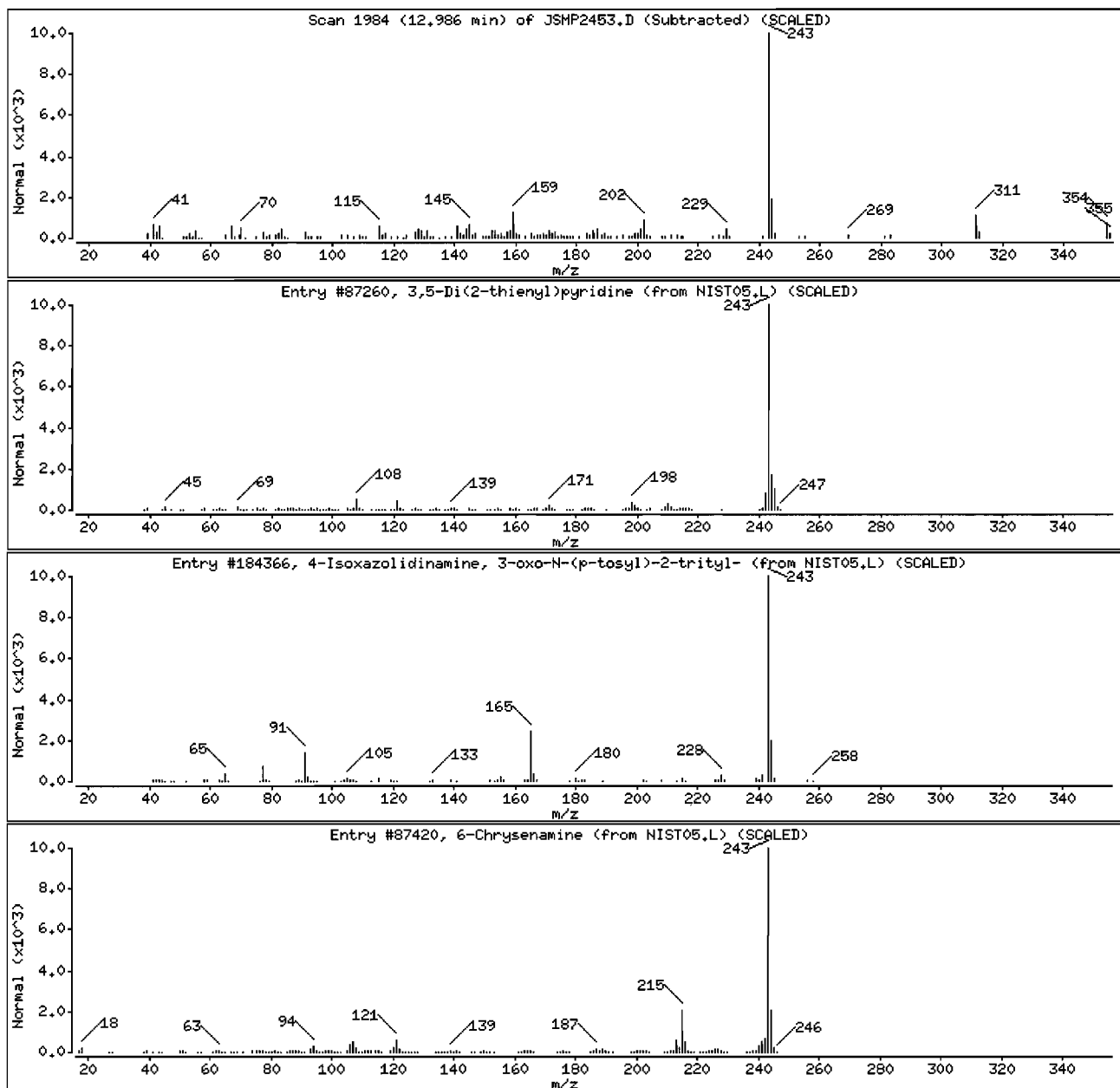
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3,5-Di(2-thienyl)pyridine	117823-19-5	NIST05.L	87260	53	C13H9NS2	243
4-Isloxazolidinamine, 3-oxo-N-(p-tosyl)-2	1000256-00-1	NIST05.L	184366	53	C29H26N2O4S	498
6-Chrysenamine	2642-98-0	NIST05.L	87420	53	C18H13N	243



Data File: \\slsvr01\bna\_lab\MSJ,i\J100415A,B\JSHP2453.D

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Date : 15-APR-2010 21:20

Client ID: RE12-10-15445

Instrument: MSJ.i

Sample Info: LKXKJ1AE

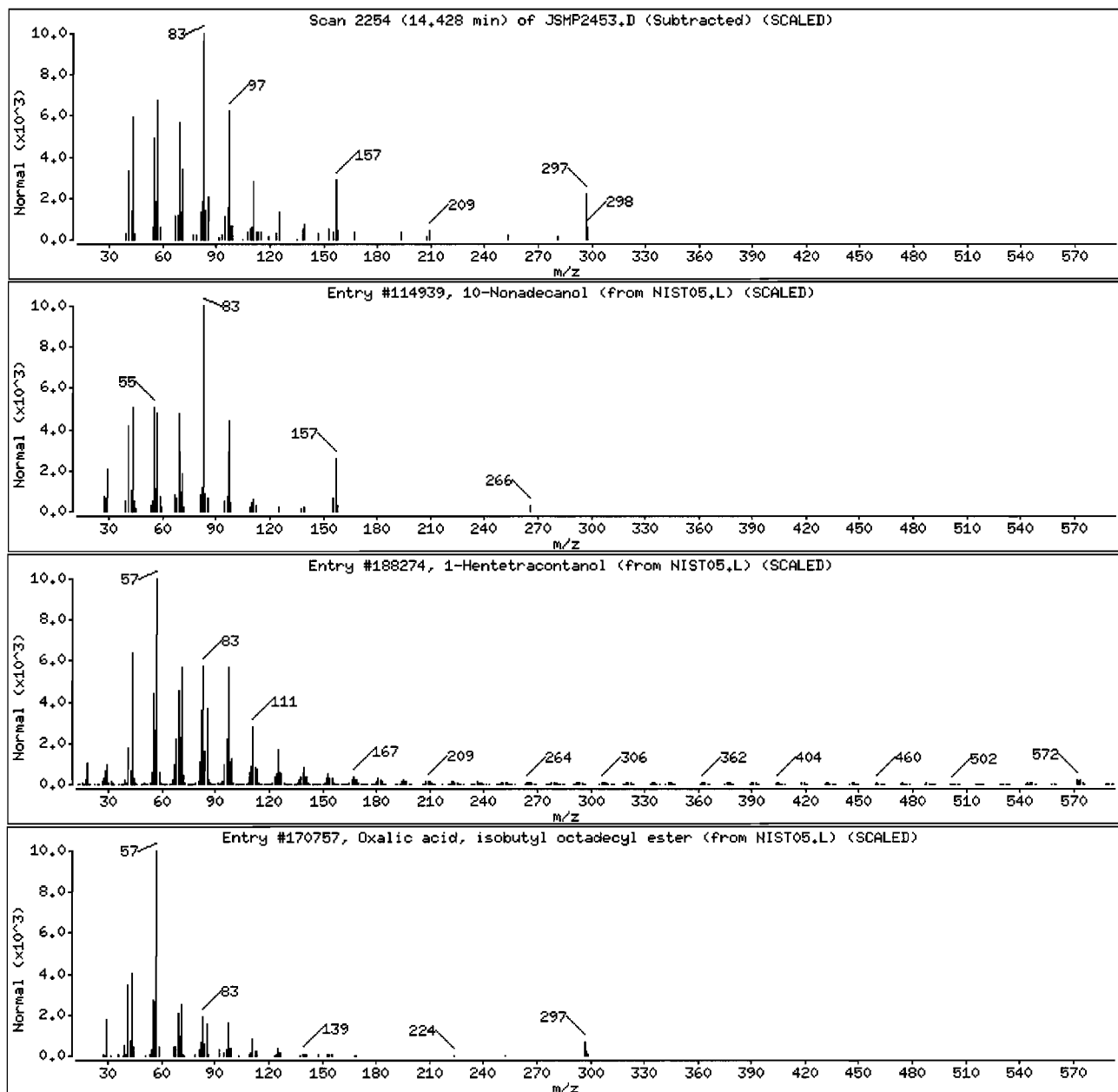
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
10-Nonadecanol	16840-84-9	NIST05.L	114939	52	C19H40O	284
1-Hentetracontanol	40710-42-7	NIST05.L	188274	30	C41H84O	593
Oxalic acid, isobutyl octadecyl ester	1000309-38-3	NIST05.L	170757	27	C24H46O4	398



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
 Report Date: 16-Apr-2010 12:07

Page 1

TestAmerica St. Louis

GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
 Lab Smp Id: LXNKL1AE Client Smp ID: RE12-10-15447  
 Inj Date : 15-APR-2010 21:45  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKL1AE  
 Misc Info : F0D080489-007 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/mL)	(ug/Kg)
\$ 10 2-Fluorophenol		112	4.553	4.549 (0.830)		160193	59.1167	1970
\$ 15 Phenol-d5		99	5.226	5.227 (0.952)		196245	56.6095	1887
* 22 1,4-Dichlorobenzene-d4		152	5.488	5.495 (1.000)		94488	40.0000	
\$ 36 Nitrobenzene-d5		82	5.920	5.927 (0.917)		135122	37.5737	1252
* 48 Naphthalene-d8		136	6.455	6.461 (1.000)		325581	40.0000	
\$ 69 2-Fluorobiphenyl		172	7.282	7.289 (0.928)		244958	35.9860	1200
* 82 Acenaphthene-d10		164	7.843	7.850 (1.000)		190693	40.0000	
\$ 104 2,4,6-Tribromophenol		330	8.484	8.491 (0.939)		60098	56.1919	1873
* 121 Phenanthrene-d10		188	9.034	9.041 (1.000)		369533	40.0000	
\$ 139 Terphenyl-d14		244	10.327	10.334 (0.903)		377879	45.9909	1533
* 153 Chrysene-d12		240	11.438	11.450 (1.000)		387742	40.0000	
* 166 Perylene-d12		264	13.761	13.779 (1.000)		229818	40.0000	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
 Report Date: 16-Apr-2010 12:07

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
 Lab Smp Id: LXNKL1AE Client Smp ID: RE12-10-15447  
 Inj Date : 15-APR-2010 21:45  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXNKL1AE  
 Misc Info : F0D080489-007 (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.488	631076	40.000
* 82 Acenaphthene-d10	7.844	832690	40.000
* 121 Phenanthrene-d10	9.035	920538	40.000
* 153 Chrysene-d12	11.438	1015255	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown							
3.827	131697	8.34745267	278.2	0		0	22
Unknown Aldol Condensate							
4.292	4202319	266.358699	8879	0		0	22
2-Propanol, 1-butoxy-							
4.992	176006	11.1559410	371.9	90	NIST05.L	13973	22

CAS #:

CAS #:

CAS #: 5131-66-8



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
Report Date: 16-Apr-2010 12:07

Page 2

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ug/mL)	FINAL (ug/Kg)		LIBRARY	LIB ENTRY	
----	----	-----	-----	----	-----	-----	-----
Unknown					CAS #:		
8.351	89767	4.31213147	143.7	0		0	82
Unknown Organic Acid					CAS #:		
9.377	131417	5.71042753	190.3	0		0	121
Unknown					CAS #:		
11.070	146623	5.77679203	192.6	0		0	153

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2454.D  
 Report Date: 16-Apr-2010 12:07

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JSMP2454.D  
 Lab Smp Id: LXNKL1AE  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D080489-007 (0100038) SON

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: RE12-10-15447  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	94488	-7.57
48 Naphthalene-d8	360526	180263	721052	325581	-9.69
82 Acenaphthene-d10	206190	103095	412380	190693	-7.52
121 Phenanthrene-d10	415780	207890	831560	369533	-11.12
153 Chrysene-d12	446285	223143	892570	387742	-13.12
166 Perylene-d12	410994	205497	821988	229818	-44.08

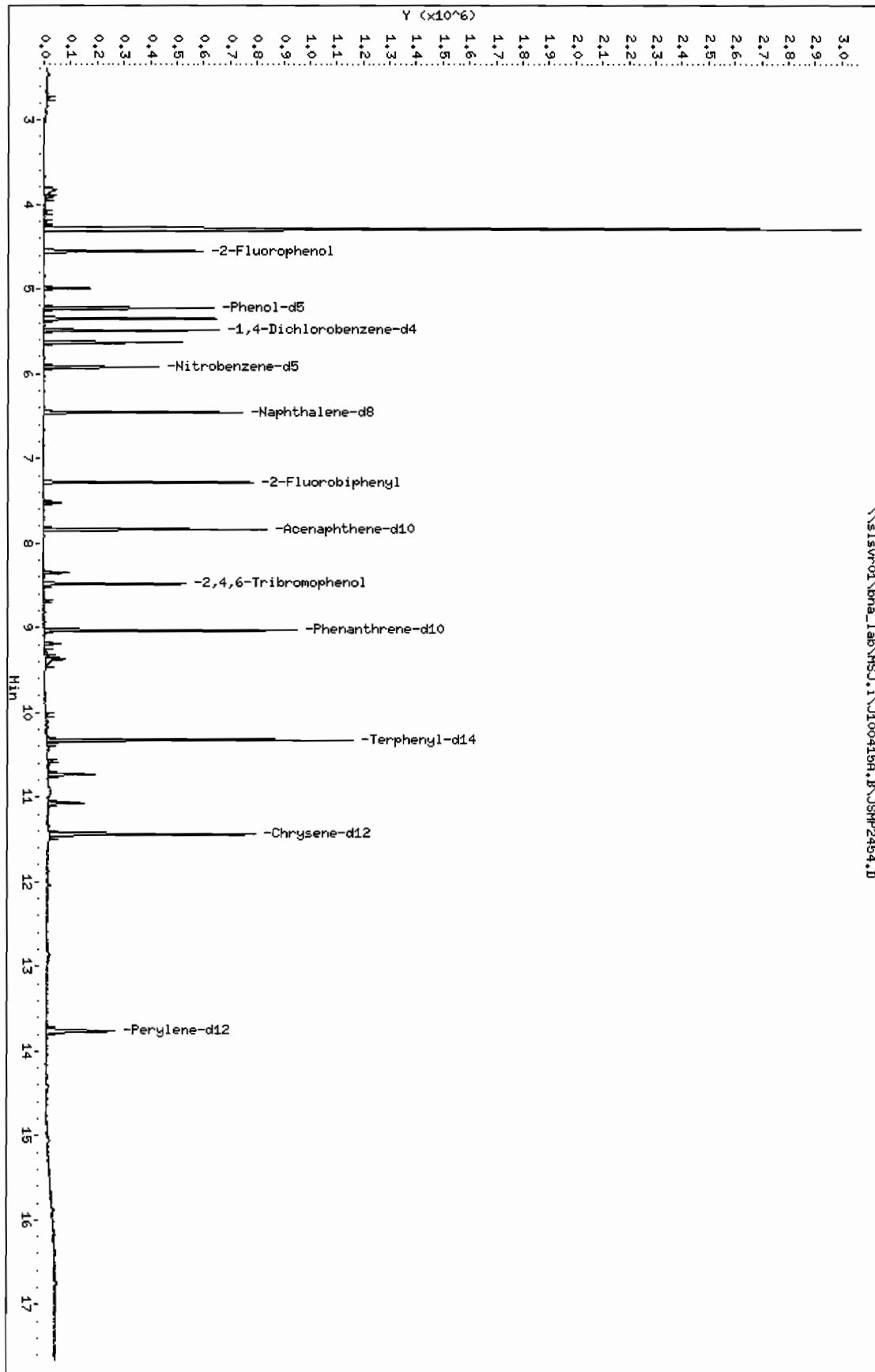
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.12
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.10
82 Acenaphthene-d10	7.85	7.35	8.35	7.84	-0.09
121 Phenanthrene-d10	9.04	8.54	9.54	9.03	-0.07
153 Chrysene-d12	11.45	10.95	11.95	11.44	-0.11
166 Perylene-d12	13.78	13.28	14.28	13.76	-0.13

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: \\slswr01\hna\_lab\MSJ.i\J100415a.B\JSHF2454.D  
Date: 15-APR-2010 21:45  
Client ID: RE12-10-15447  
Sample Info: LXXKL1AE  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.i  
Operator: JM/HAK  
Column diameter: 2.00

Page 1





Data File: \\slsvr01\lbnalab\MSJ,i\J100415A,B\JSMF2454.D

Page 1

Date : 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ,i

Sample Info: LXNKL1AE

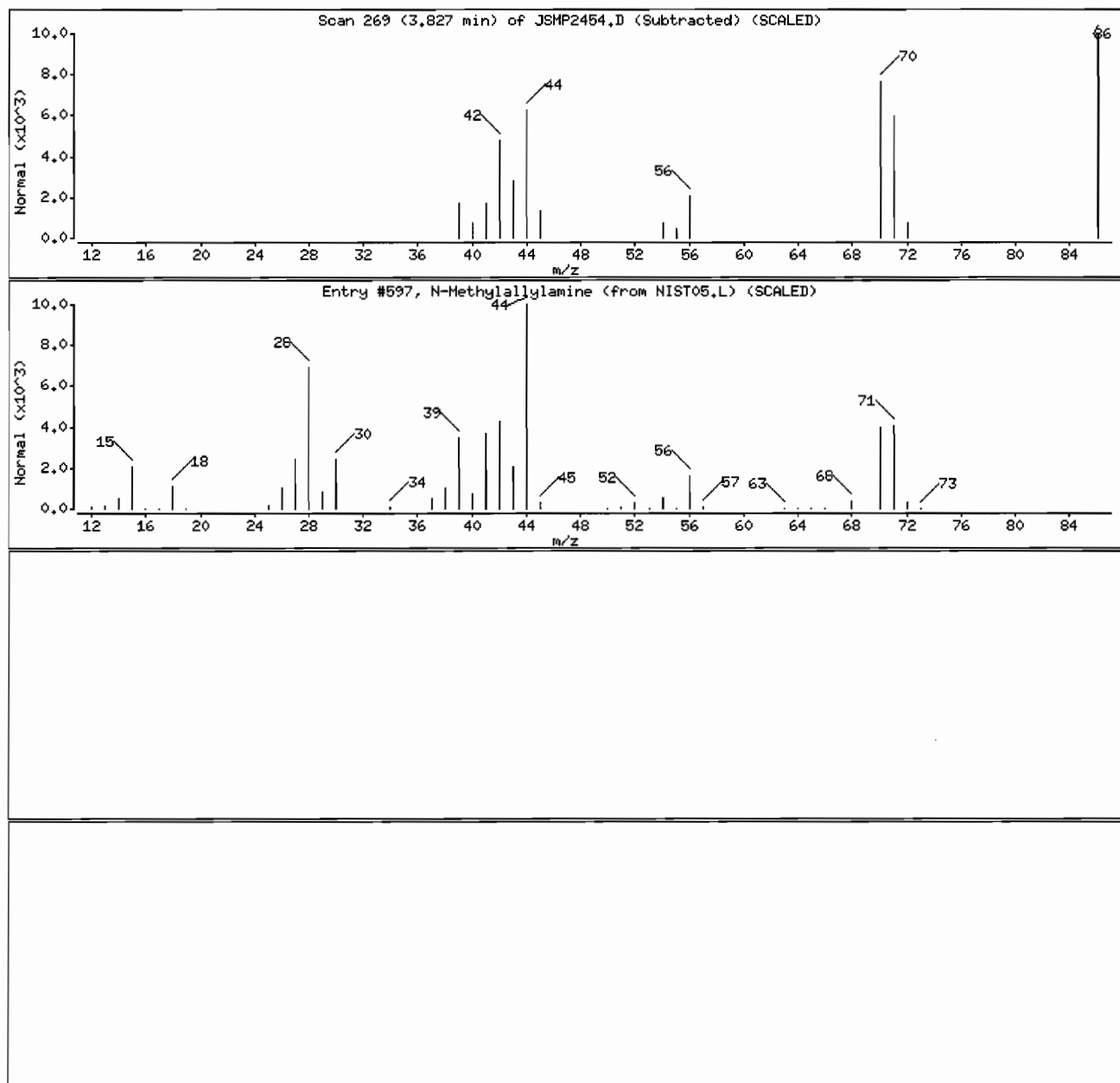
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
N-Methylallylamine	627-37-2	NIST05.L	597	50	C4H9N	71



Data File: \\slsvr01\lbnalab\MSJ,i\J100415A,B\JSHMP2454.D

Page 2

Date : 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ,i

Sample Info: LXNKL1AE

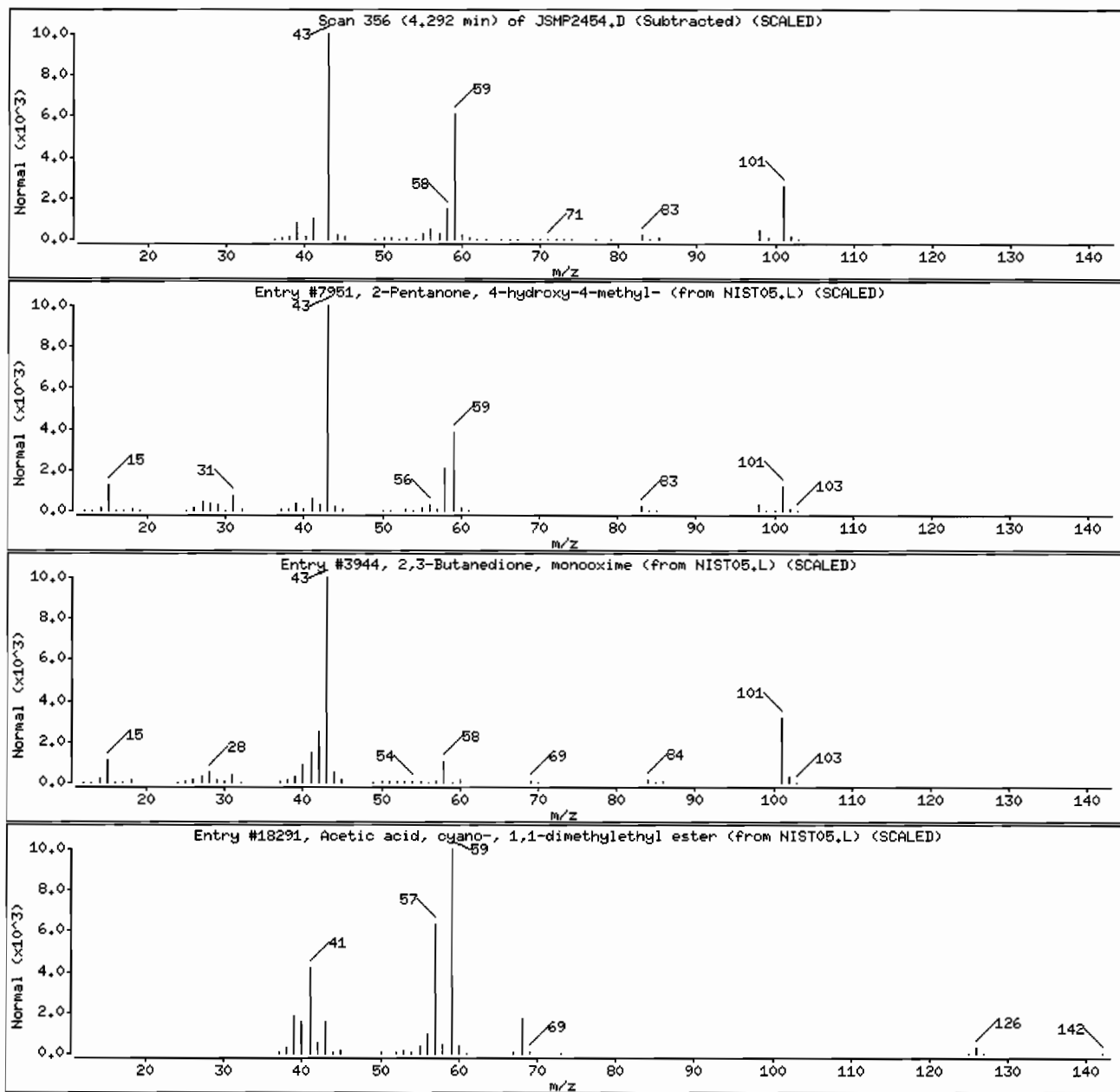
Volume Injected (uL): 1.0

Operator: JM/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	64	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST05.L	18291	25	C7H11NO2	141



Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2454.D

Page 3

Date : 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ.i

Sample Info: LXNKL1AE

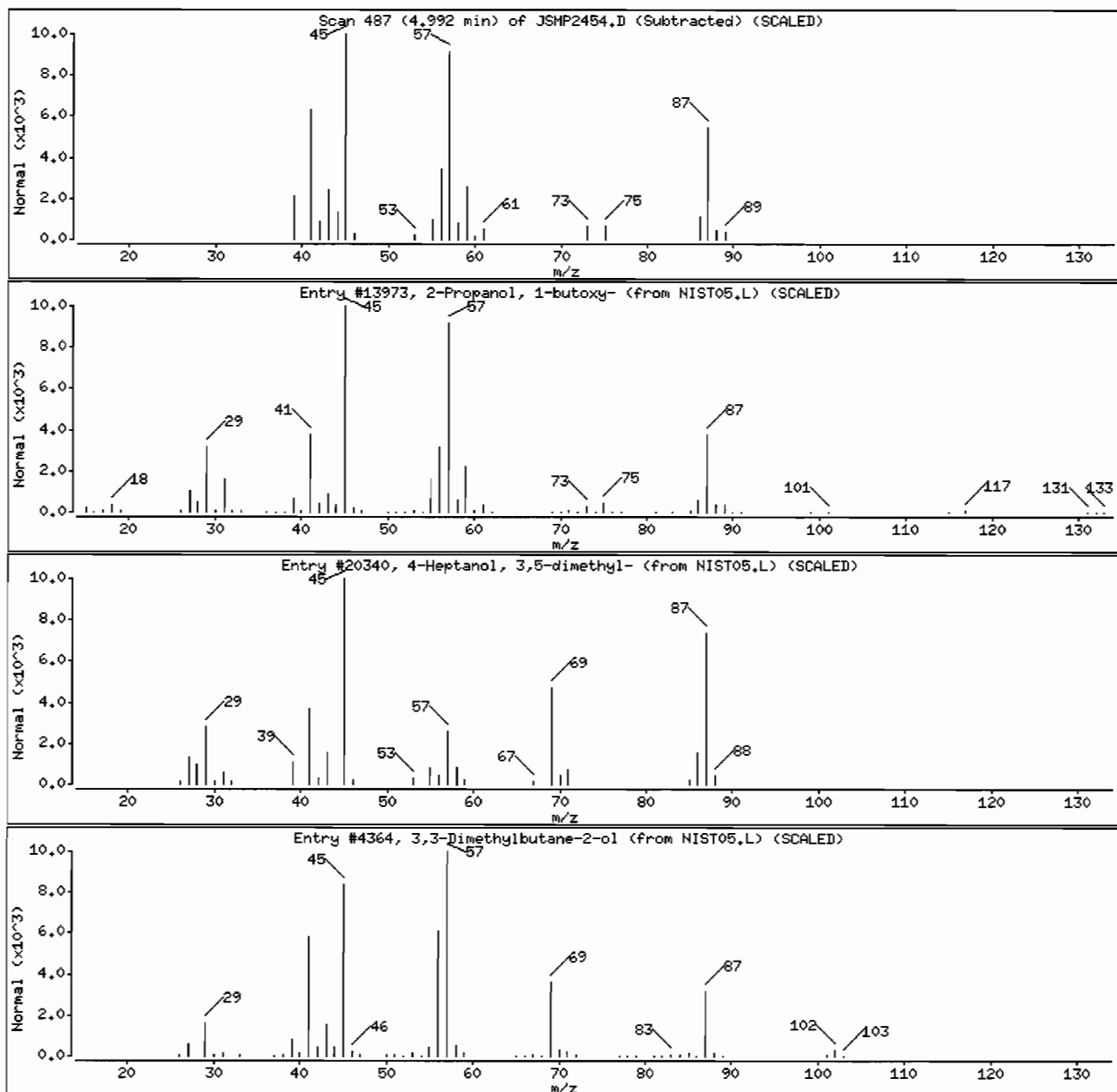
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propanol, 1-butoxy-	5131-66-8	NIST05.L	13973	90	C7H16O2	132
4-Heptanol, 3,5-dimethyl-	19549-79-2	NIST05.L	20340	53	C9H20O	144
3,3-Dimethylbutane-2-ol	464-07-3	NIST05.L	4364	42	C6H14O	102



Data File: \\slsvr01\\bna\_lab\\MSJ,i\\J100415A,B\\JSMP2454.D

Page 4

Date: 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ,i

Sample Info: LXXKL1AE

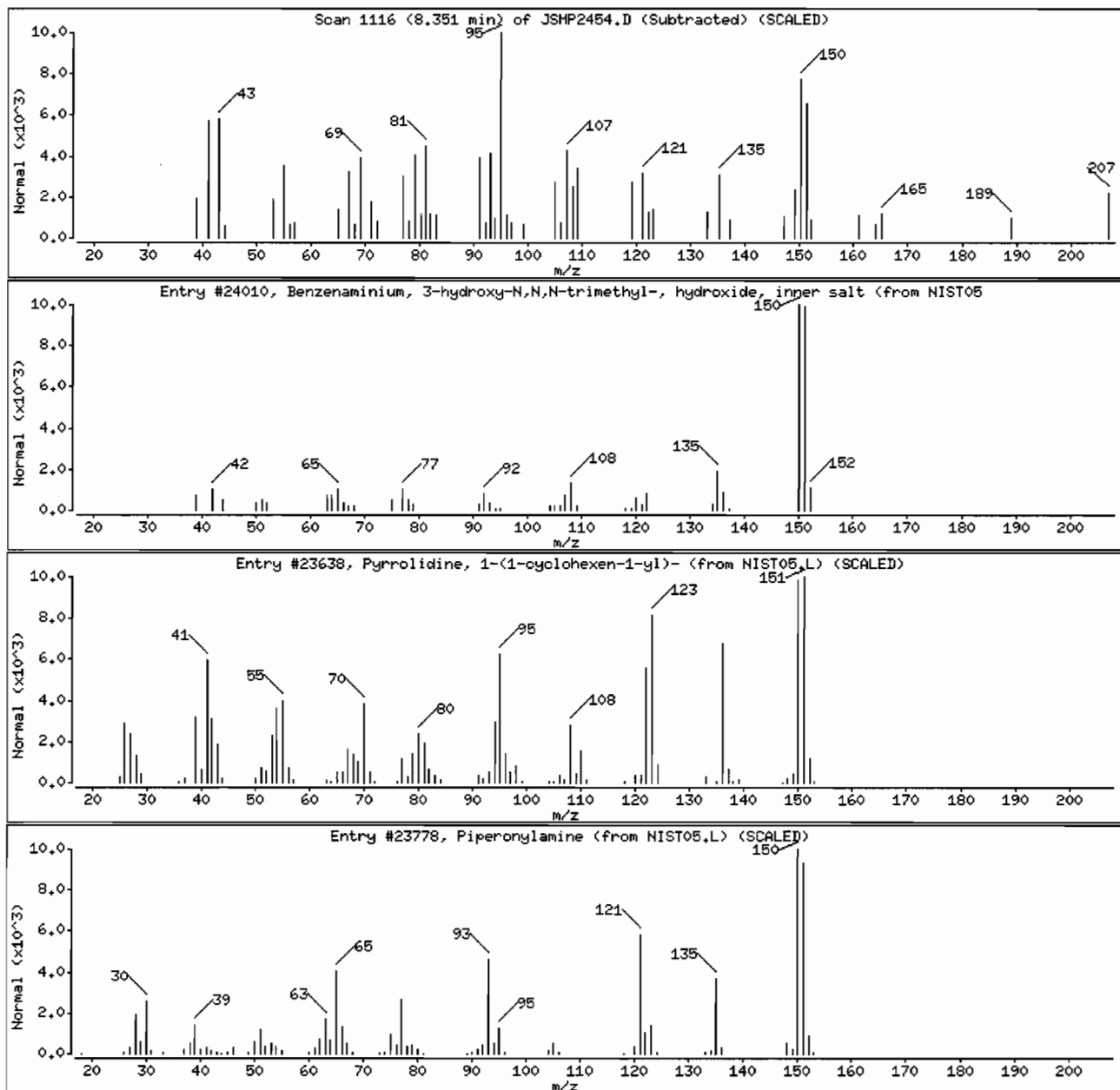
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzenaminium, 3-hydroxy-N,N,N-trimethyl	31061-59-3	NIST05.L	24010	38	C9H13NO	151
Pyrrolidine, 1-(1-cyclohexen-1-yl)-	1125-99-1	NIST05.L	23638	38	C10H17N	151
Piperonylamine	2620-50-0	NIST05.L	23778	30	C8H9NO2	151



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A,B\JSHMP2454.D

Page 5

Date: 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ.i

Sample Info: LXXKL1AE

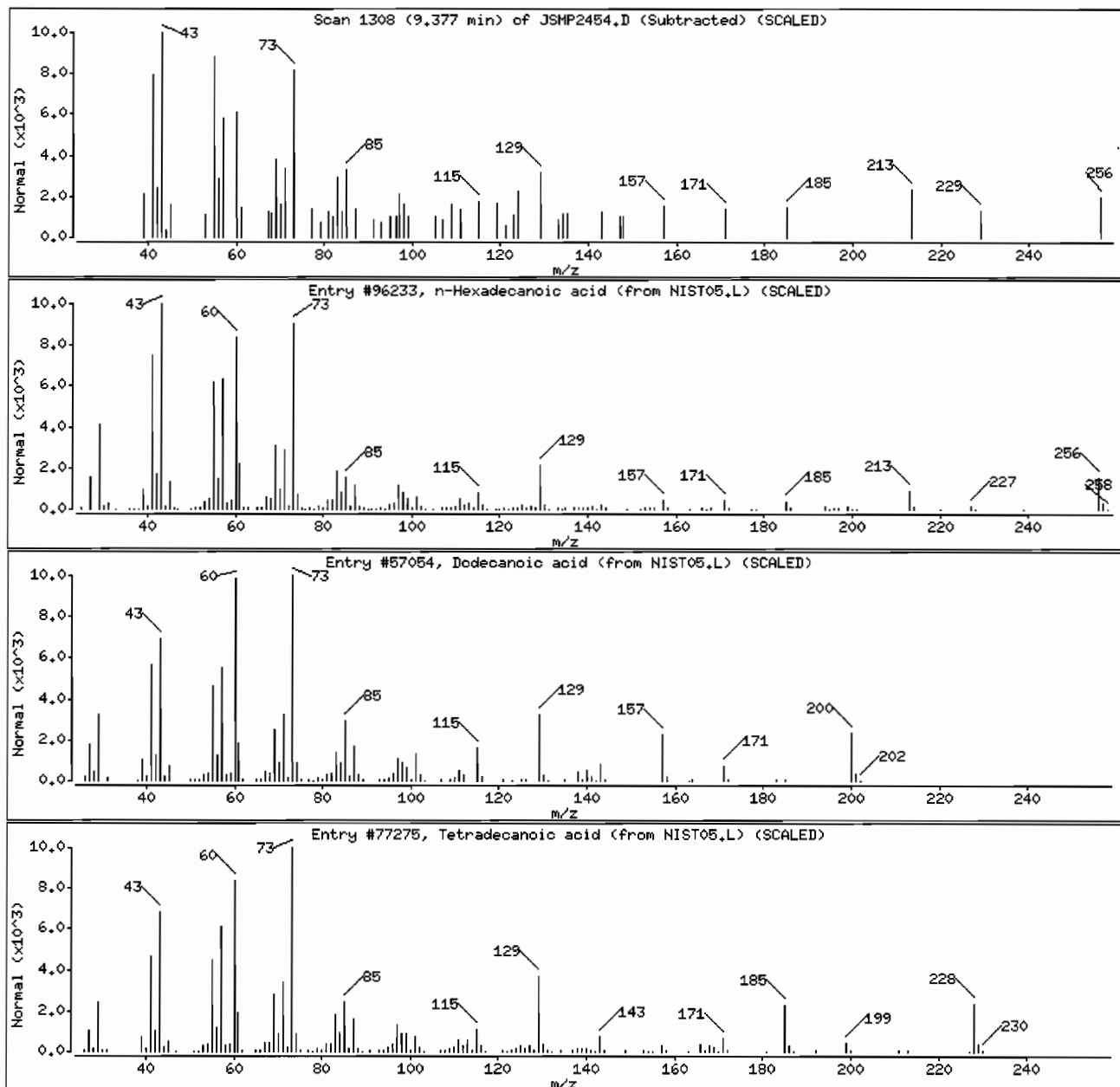
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
n-Hexadecanoic acid	57-10-3	NIST05.L	96233	47	C16H32O2	256
Dodecanoic acid	143-07-7	NIST05.L	57054	43	C12H24O2	200
Tetradecanoic acid	544-63-8	NIST05.L	77275	38	C14H28O2	228



Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JSHF2454.D

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Date : 15-APR-2010 21:45

Client ID: RE12-10-15447

Instrument: MSJ.i

Sample Info: LXNKL1AE

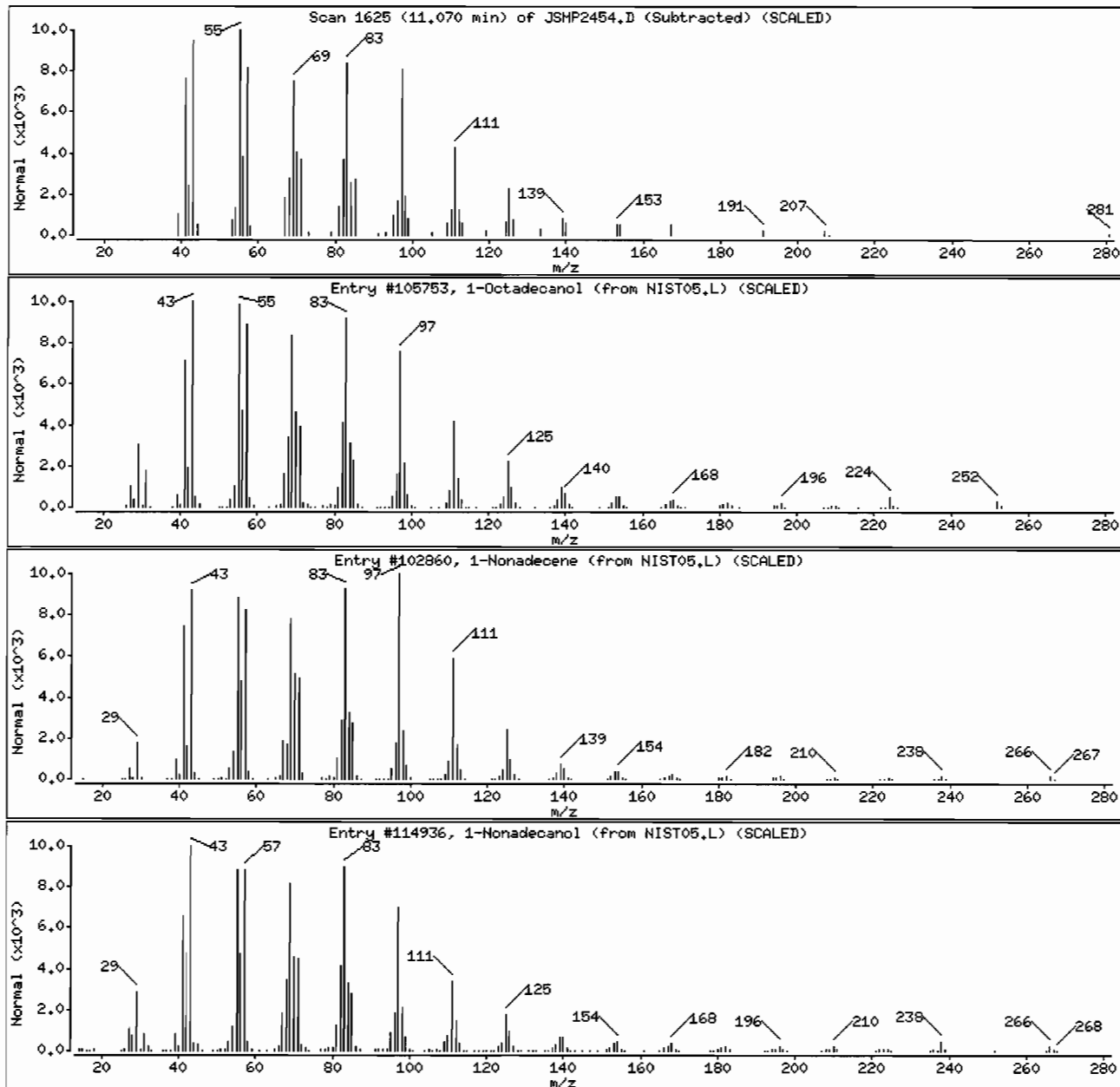
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octadecanol	112-92-5	NIST05.L	105753	95	C18H38O	270
1-Nonadecene	18435-45-5	NIST05.L	102860	94	C19H38	266
1-Nonadecanol	1454-84-8	NIST05.L	114936	93	C19H40O	284



# **GC/MS RAW QC DATA**

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JBLK2439.D  
 Report Date: 16-Apr-2010 11:27

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JBLK2439.D  
 Lab Smp Id: LXRW21AA Client Smp ID: SBLKJ105B  
 Inj Date : 15-APR-2010 15:27  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXRW21AA  
 Misc Info : F0D100000-038B (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 13 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONLCS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
\$ 10 2-Fluorophenol	112	4.552	4.549 (0.829)	168688	61.4549	2048	
\$ 15 Phenol-d5	99	5.225	5.227 (0.951)	207954	59.2194	1974	
* 22 1,4-Dichlorobenzene-d4	152	5.492	5.495 (1.000)	95713	40.0000		
\$ 36 Nitrobenzene-d5	82	5.925	5.927 (0.917)	145934	38.3086	1277	
* 48 Naphthalene-d8	136	6.459	6.461 (1.000)	344887	40.0000		
\$ 69 2-Fluorobiphenyl	172	7.287	7.289 (0.929)	263189	37.7049	1257	
* 82 Acenaphthene-d10	164	7.848	7.850 (1.000)	195545	40.0000		
\$ 104 2,4,6-Tribromophenol	330	8.489	8.491 (0.939)	60946	57.8591	1929	
* 121 Phenanthrene-d10	188	9.039	9.041 (1.000)	363949	40.0000		
\$ 139 Terphenyl-d14	244	10.331	10.334 (0.903)	292813	37.8538	1262	
* 153 Chrysene-d12	240	11.442	11.450 (1.000)	365042	40.0000		
* 166 Perylene-d12	264	13.771	13.779 (1.000)	331238	40.0000		



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JBLK2439.D  
 Report Date: 16-Apr-2010 11:27

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JBLK2439.D  
 Lab Smp Id: LXRW21AA Client Smp ID: SBLKJ105B  
 Inj Date : 15-APR-2010 15:27  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXRW21AA  
 Misc Info : F0D100000-038B (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 13 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONLCS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 1,4-Dichlorobenzene-d4	5.493	640341	40.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL (ug/mL)	FINAL (ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
4.302	4045587	252.714298	8424	0		0	22

Unknown Aldol Condensate

CAS #:

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JBLK2439.D  
 Report Date: 16-Apr-2010 11:27

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JBLK2439.D Calibration Time: 11:13  
 Lab Smp Id: LXRW21AA Client Smp ID: SBLKJ105B  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D100000-038B (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	95713	-6.37
48 Naphthalene-d8	360526	180263	721052	344887	-4.34
82 Acenaphthene-d10	206190	103095	412380	195545	-5.16
121 Phenanthrene-d10	415780	207890	831560	363949	-12.47
153 Chrysene-d12	446285	223143	892570	365042	-18.20
166 Perylene-d12	410994	205497	821988	331238	-19.41

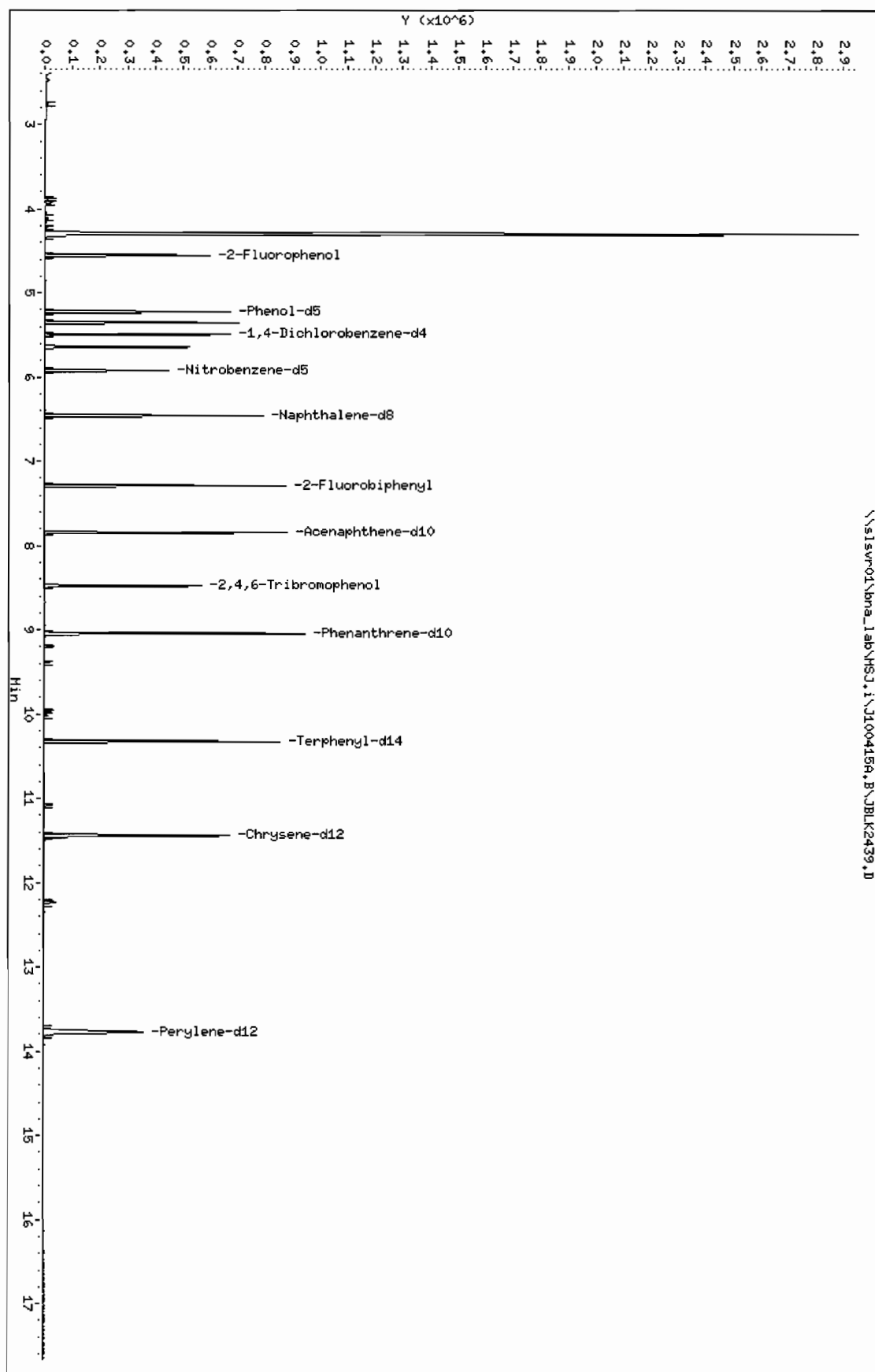
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.04
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	-0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.03
153 Chrysene-d12	11.45	10.95	11.95	11.44	-0.07
166 Perylene-d12	13.78	13.28	14.28	13.77	-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: \\slsvr01\hna\_lab\MSJ.i\J1004158.B\JLK2439.D  
Date: 15-APR-2010 15:27  
Client ID: SLKJ105B  
Sample Info: LXRW210A  
Volume Injected (uL): 1.0  
Column phase:

Instrument: MSJ.i  
Operator: JM/HK  
Column diameter: 2.00

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Data File: \\slsvr01\hna\_lab\MSJ,i\J100415A,B\JBLK2439.D

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Date : 15-APR-2010 15:27

Client ID: SBLKJ105B

Instrument: MSJ.i

Sample Info: LXRW21AA

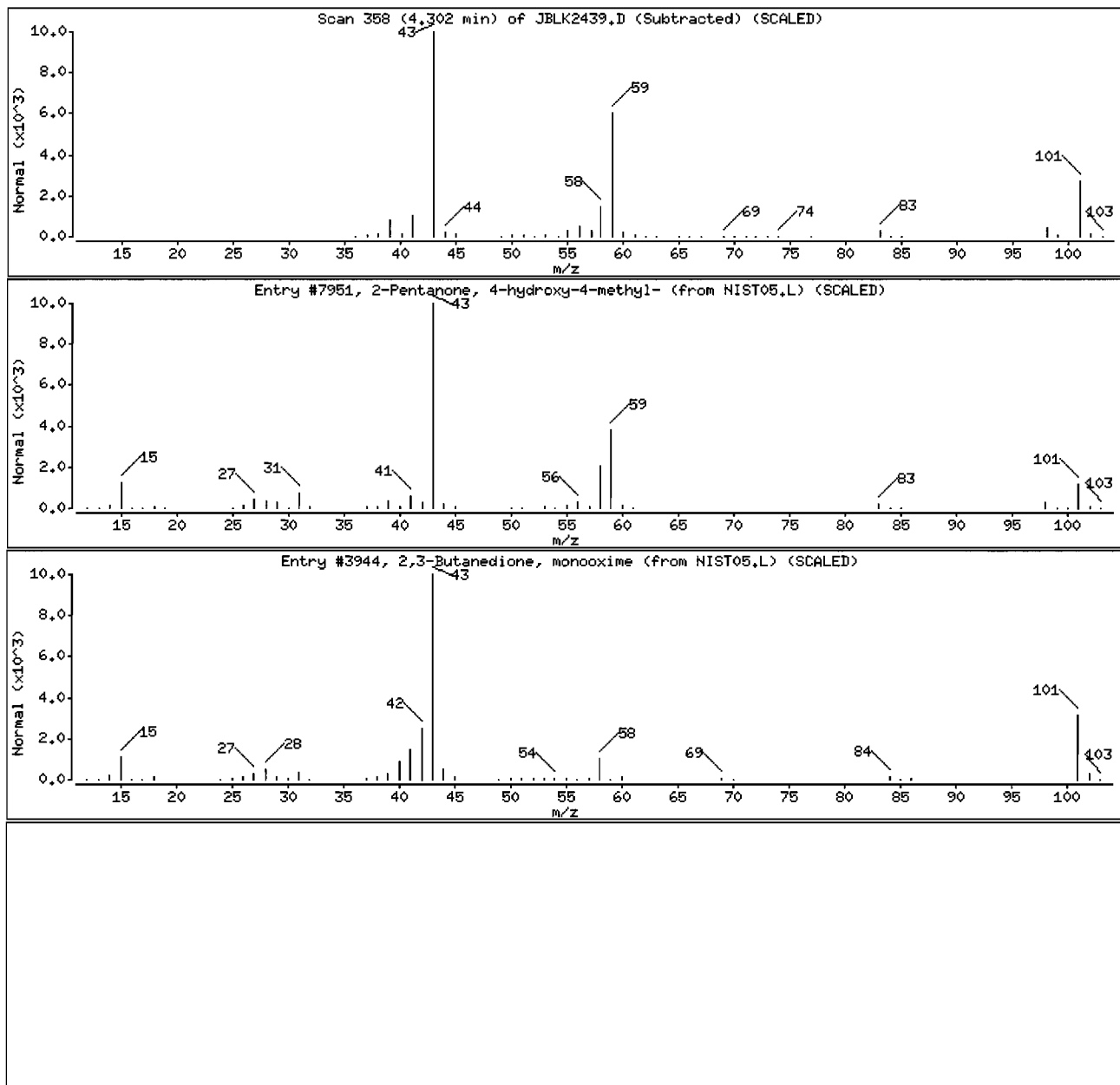
Volume Injected (uL): 1.0

Operator: JW/MAK

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST05.L	7951	39	C6H12O2	116
2,3-Butanedione, monooxime	57-71-6	NIST05.L	3944	35	C4H7NO2	101



Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JLCS2440.D  
 Report Date: 16-Apr-2010 11:29

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TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JLCS2440.D  
 Lab Smp Id: LXRW21AC Client Smp ID: SLCSJ105A  
 Inj Date : 15-APR-2010 15:52  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXRW21AC  
 Misc Info : F0D100000-038C (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 14 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONLCS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/mL)	FINAL (ug/Kg)
\$ 10 2-Fluorophenol	112		4.552	4.549 (0.829)		160435		60.0661	2002
19 Bis(2-chloroethyl)ether	93		5.305	5.302 (0.966)		207184		74.3849	2479
\$ 15 Phenol-d5	99		5.225	5.227 (0.951)		200432		58.6572	1955
16 Phenol	94		5.235	5.238 (0.953)		286627		75.5442	2518
20 2-Chlorophenol	128		5.358	5.361 (0.976)		235054		74.7058	2490
21 1,3-Dichlorobenzene	146		5.465	5.468 (0.995)		257533		75.6591	2522
* 22 1,4-Dichlorobenzene-d4	152		5.492	5.495 (1.000)		93135		40.0000	
23 1,4-Dichlorobenzene	146		5.502	5.505 (1.002)		266677		74.9531	2498
26 1,2-Dichlorobenzene	146		5.647	5.649 (1.028)		253204		76.7308	2558
28 2,2-oxybis(1-Chloropropane)	45		5.695	5.703 (1.037)		223771		81.0397	2701
27 2-Methylphenol	108		5.673	5.676 (1.033)		204852		76.3570	2545
35 Hexachloroethane	117		5.876	5.879 (1.070)		105569		78.4024	2613
32 N-Nitrosodipropylamine	70		5.807	5.815 (1.057)		184748		86.2686	2876
29 3 and 4-Methylphenol	107		5.775	5.783 (1.052)		278256		84.7141	2824
\$ 36 Nitrobenzene-d5	82		5.924	5.927 (0.917)		141126		39.7772	1326
37 Nitrobenzene	77		5.940	5.943 (0.920)		286428		80.8603	2695
39 Isophorone	82		6.101	6.103 (0.945)		461491		82.4187	2747
40 2-Nitrophenol	139		6.175	6.178 (0.956)		133233		78.6065	2620
41 2,4-Dimethylphenol	107		6.175	6.178 (0.956)		280838		79.9154	2664
42 Bis(2-chloroethoxy)methane	93		6.250	6.248 (0.968)		253306		82.0140	2734

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JLCS2440.D  
 Report Date: 16-Apr-2010 11:29

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Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL) FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
45 2,4-Dichlorophenol		162	6.346	6.349 (0.983)		195485	78.0781 2603
47 1,2,4-Trichlorobenzene		180	6.421	6.424 (0.994)		238359	86.0631 2869
* 48 Naphthalene-d8		136	6.458	6.461 (1.000)		321211	40.0000
50 Naphthalene		128	6.474	6.477 (1.002)		694460	80.4139 2680
51 4-Chloroaniline		127	6.512	6.520 (1.008)		198133	52.4589 1749
54 Hexachlorobutadiene		225	6.592	6.595 (1.021)		154971	80.9351 2698
62 2-Methylnaphthalene		142	6.998	7.001 (1.084)		464079	75.2138 2507
59 4-Chloro-3-Methylphenol		107	6.854	6.857 (1.061)		234632	79.3231 2644
66 Hexachlorocyclopentadiene		237	7.169	7.172 (0.914)		175893	82.7662 2759
67 2,4,6-Trichlorophenol		196	7.228	7.230 (0.921)		154591	78.6612 2622
\$ 69 2-Fluorobiphenyl		172	7.286	7.289 (0.929)		252162	39.0523 1302
68 2,4,5-Trichlorophenol		196	7.260	7.262 (0.925)		168474	77.2700 2576
72 2-Chloronaphthalene		162	7.388	7.391 (0.941)		438414	83.7626 2792
73 2-Nitroaniline		65	7.484	7.481 (0.954)		159862	82.8102 2760
76 Dimethylphthalate		163	7.617	7.620 (0.971)		532023	83.5928 2786
79 Acenaphthylene		152	7.724	7.727 (0.984)		718868	87.3660 2912
80 2,6-Dinitrotoluene		165	7.692	7.690 (0.980)		123275	84.2606 2809
* 82 Acenaphthene-d10		164	7.847	7.850 (1.000)		180888	40.0000
83 Acenaphthene		153	7.874	7.877 (1.003)		462652	84.3746 2812
81 3-Nitroaniline		138	7.810	7.813 (0.995)		107174	72.5511 2418
84 2,4-Dinitrophenol		184	7.884	7.887 (1.005)		30141	28.8349 961.2 (QM)
86 Dibenzofuran		168	7.991	7.994 (1.018)		663154	79.6851 2656
88 2,4-Dinitrotoluene		165	8.002	8.005 (1.020)		175398	89.8671 2996
85 4-Nitrophenol		109	7.906	7.909 (1.007)		105904	81.9928 2733
94 Fluorene		166	8.274	8.277 (1.054)		550578	85.7148 2857
93 Diethylphthalate		149	8.173	8.176 (1.042)		550228	88.5279 2951
95 4-Chlorophenyl-phenylether		204	8.248	8.251 (1.051)		288384	86.6122 2887
98 4-Nitroaniline		138	8.312	8.315 (1.059)		113056	76.2689 2542
99 4,6-Dinitro-2-methylphenol		198	8.333	8.336 (0.922)		68255	48.2263 1608 (QM)
100 N-Nitrosodiphenylamine		169	8.349	8.352 (0.924)		477439	110.909 3697 (R)
\$ 104 2,4,6-Tribromophenol		330	8.488	8.491 (0.939)		67325	67.6688 2256
109 4-Bromophenyl-phenylether		248	8.643	8.646 (0.956)		181578	91.6097 3054
112 Hexachlorobenzene		284	8.787	8.790 (0.972)		181191	88.6010 2953
117 Pentachlorophenol		266	8.926	8.929 (0.988)		116942	77.6349 2588
* 121 Phenanthrene-d10		188	9.038	9.041 (1.000)		343760	40.0000
122 Phenanthrene		178	9.060	9.062 (1.002)		795263	87.7477 2925
124 Anthracene		178	9.097	9.100 (1.006)		820541	88.2152 2940
126 Carbazole		167	9.214	9.217 (1.020)		724638	86.9421 2898
129 Di-n-Butylphthalate		149	9.476	9.474 (1.048)		927895	90.2912 3010
134 Fluoranthene		202	10.042	10.045 (1.111)		886487	91.5062 3050
137 Pyrene		202	10.240	10.243 (0.895)		931087	94.2313 3141
\$ 139 Terphenyl-d14		244	10.325	10.334 (0.902)		276251	36.4888 1216
146 Butylbenzylphthalate		149	10.763	10.766 (0.940)		387893	86.9040 2897
150 Benzo (a) Anthracene		228	11.420	11.423 (0.998)		858031	95.2220 3174
* 153 Chrysene-d12		240	11.447	11.450 (1.000)		357278	40.0000
152 3,3'-Dichlorobenzidine		252	11.372	11.375 (0.993)		284313	72.5377 2418
154 Chrysene		228	11.479	11.482 (1.003)		813815	89.2543 2975
155 bis(2-ethylhexyl) Phthalate		149	11.356	11.359 (0.992)		550327	89.7415 2991
158 Di-n-octylphthalate		149	12.163	12.171 (0.883)		945948	88.6281 2954
160 Benzo (b) fluoranthene		252	13.023	13.025 (0.946)		902833	93.7728 3126
161 Benzo (k) fluoranthene		252	13.065	13.074 (0.949)		982233	92.8564 3095
165 Benzo (a) pyrene		252	13.658	13.666 (0.992)		861174	90.5008 3017
* 166 Perylene-d12		264	13.770	13.779 (1.000)		353760	40.0000
173 Indeno (1,2,3-cd) pyrene		276	16.072	16.070 (1.167)		886261	84.5001 2817 (M)

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JLCS2440.D  
Report Date: 16-Apr-2010 11:29

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Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
174 Dibenzo(a,h)anthracene	278		16.083	16.081	(1.168)	874500	93.5743	3119
177 Benzo(g,h,i)perylene	276		16.617	16.609	(1.207)	862208	98.0450	3268

## QC Flag Legend

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

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JLCS2440.D  
 Report Date: 16-Apr-2010 11:29

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JLCS2440.D  
 Lab Smp Id: LXRW21AC  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D100000-038C (0100038) SON

Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: SLCSJ105A  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	102224	51112	204448	93135	-8.89
48 Naphthalene-d8	360526	180263	721052	321211	-10.90
82 Acenaphthene-d10	206190	103095	412380	180888	-12.27
121 Phenanthrene-d10	415780	207890	831560	343760	-17.32
153 Chrysene-d12	446285	223143	892570	357278	-19.94
166 Perylene-d12	410994	205497	821988	353760	-13.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.05
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	-0.04
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	-0.03
153 Chrysene-d12	11.45	10.95	11.95	11.45	-0.02
166 Perylene-d12	13.78	13.28	14.28	13.77	-0.06

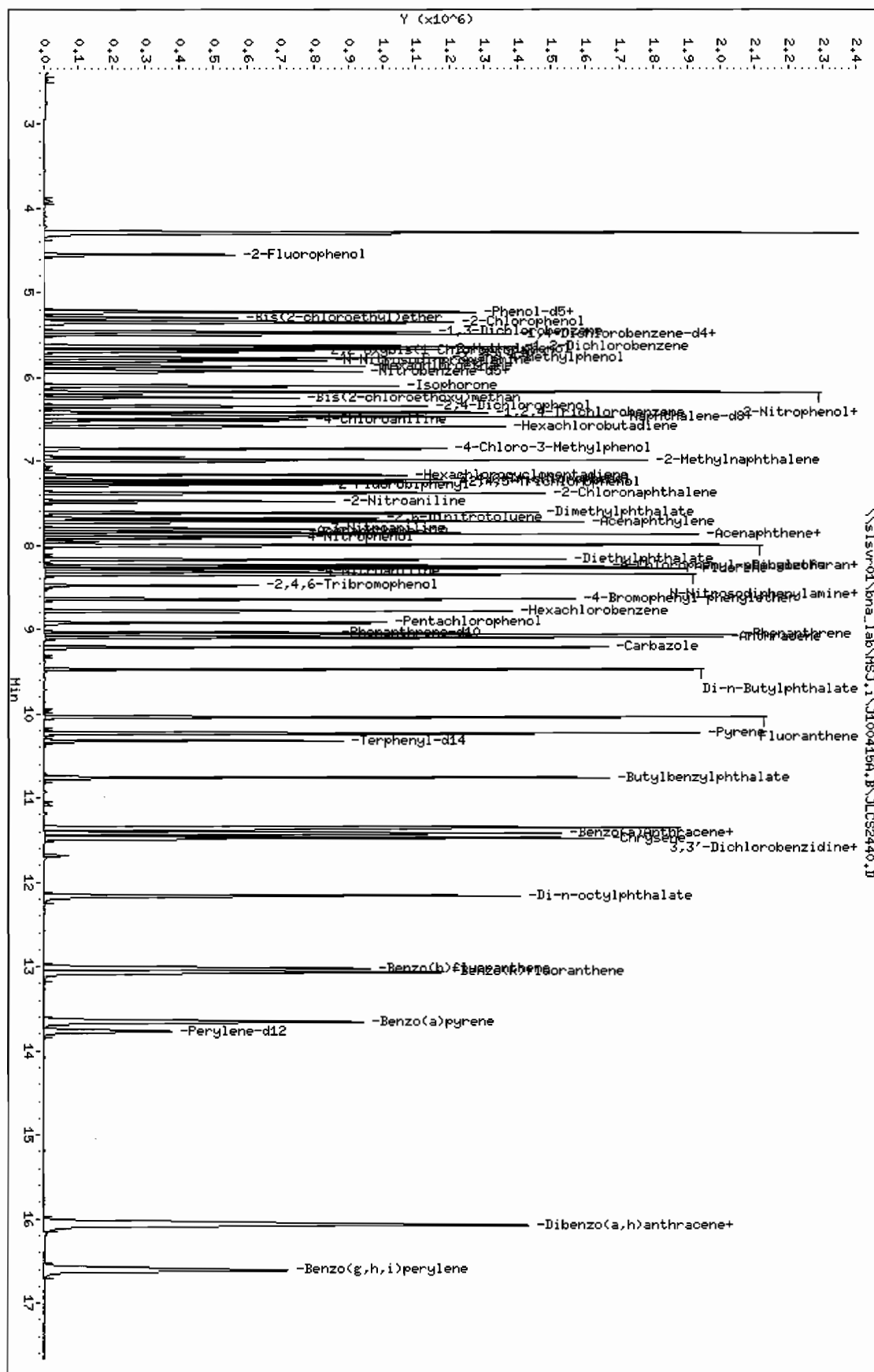
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



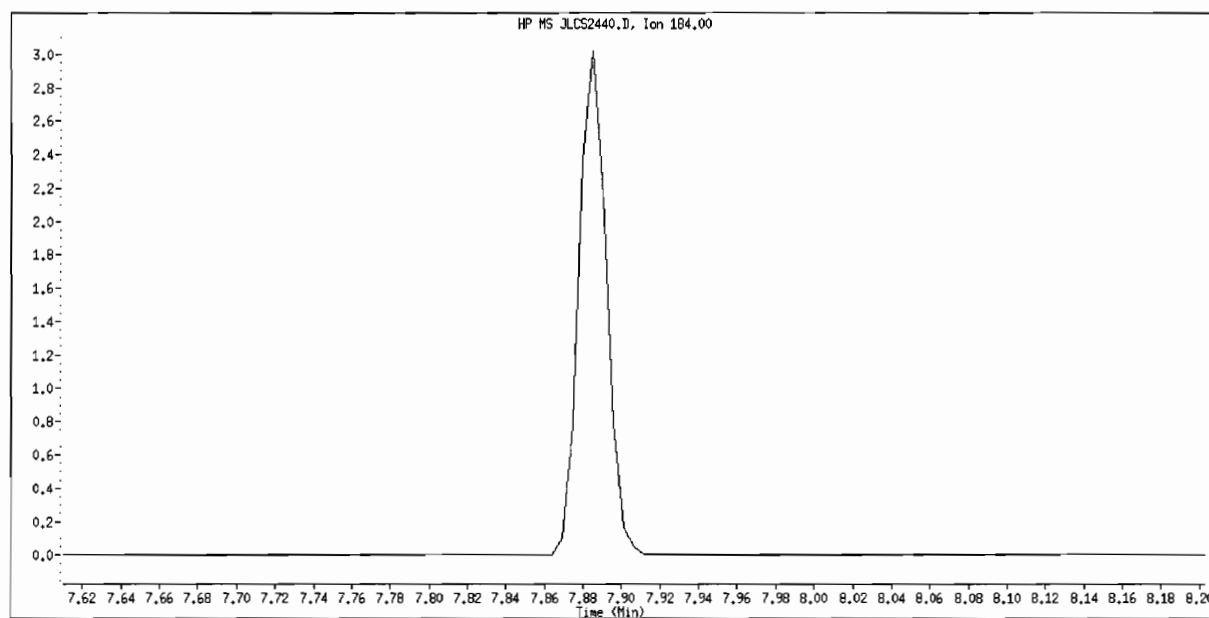
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 Date: 15-APR-2010 15:52  
 Client ID: SLCS1105A  
 Sample Info: LXR21AC  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: MSJ.1  
 Operator: JM/HAK  
 Column diameter: 2.00

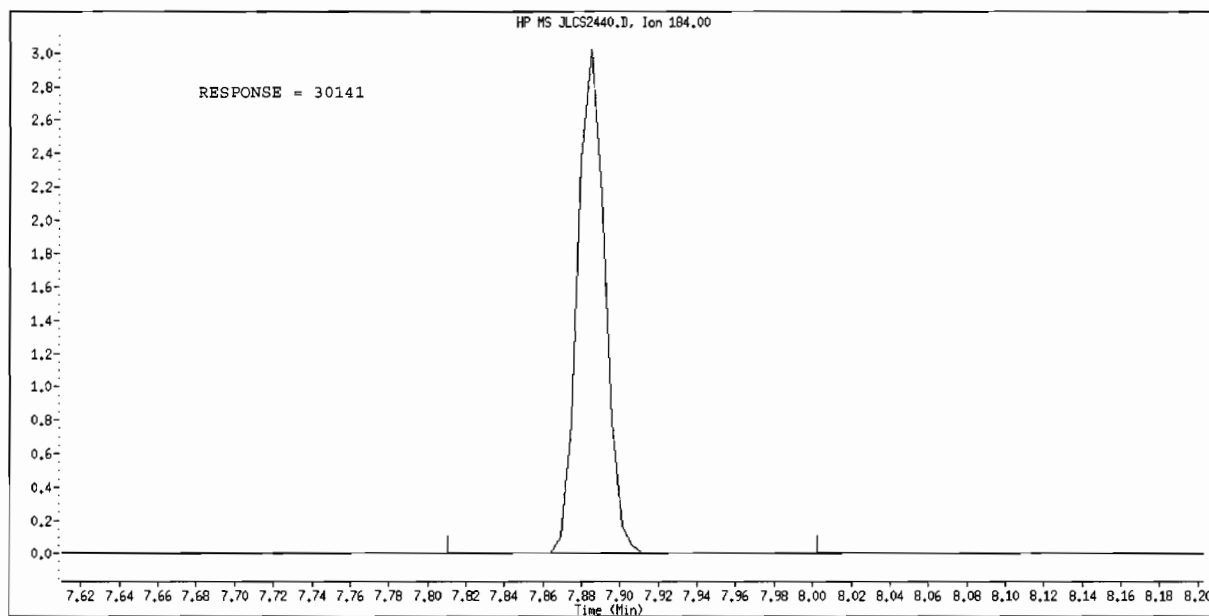
Page 1



Data File Name: JLCS2440.D  
Inj. Date and Time: 15-APR-2010 15:52  
Instrument ID: MSJ.i  
Client ID: SLCSJ105A  
Compound Name: 2,4-Dinitrophenol  
CAS #: 51-28-5



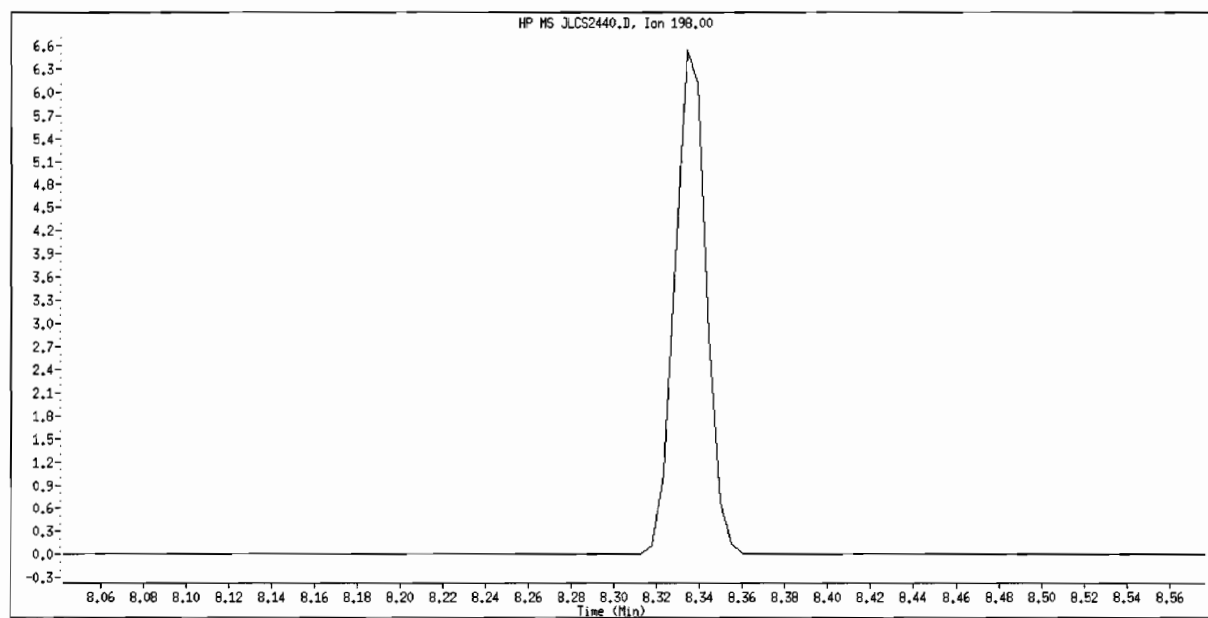
Original Integration



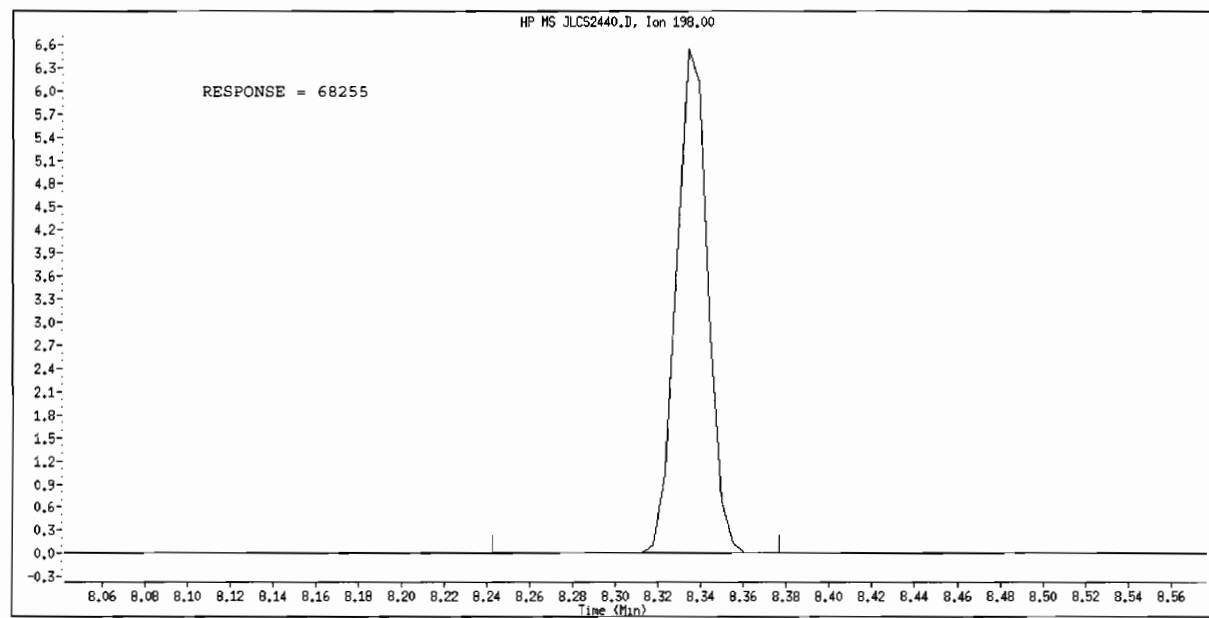
Manual Integration

Manually Integrated By: winklerj  
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: JLCS2440.D  
Inj. Date and Time: 15-APR-2010 15:52  
Instrument ID: MSJ.i  
Client ID: SLCSJ105A  
Compound Name: 4,6-Dinitro-2-methylphenol  
CAS #: 534-52-1



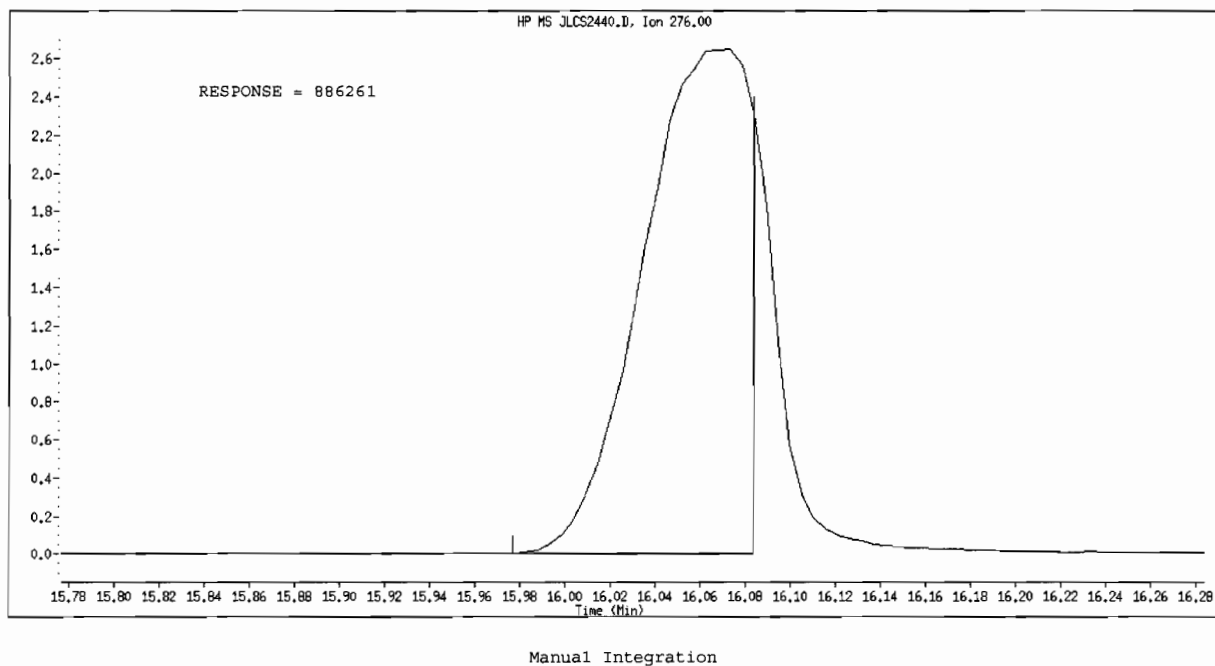
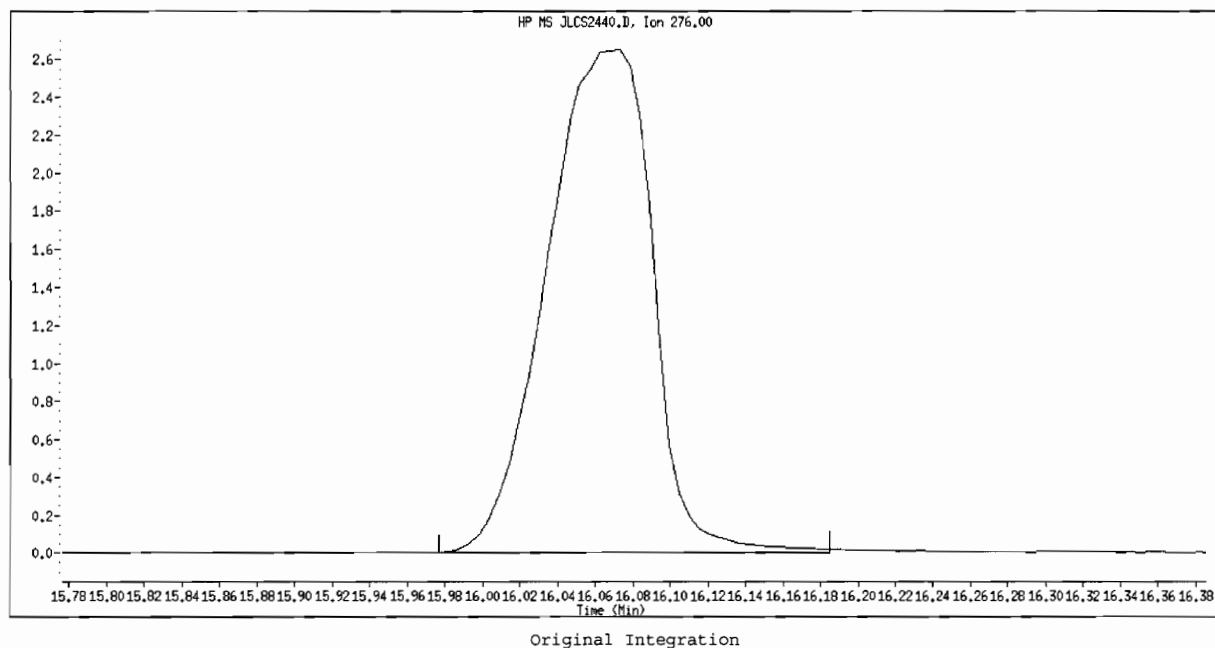
Original Integration



Manual Integration

Manually Integrated By: winklerj  
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: JLCS2440.D  
Inj. Date and Time: 15-APR-2010 15:52  
Instrument ID: MSJ.i  
Client ID: SLCSJ105A  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: winklerj  
Manual Integration Reason: Incomplete Integration

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2446.D  
 Report Date: 16-Apr-2010 11:41

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## TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2446.D  
 Lab Smp Id: LXL41E4 Client Smp ID: WST32-10-13889S  
 Inj Date : 15-APR-2010 18:23  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXL41E4  
 Misc Info : F0D070439-002S (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 20 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT SIG						ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/Kg)	
=====		----	----	-----	-----	-----	-----	-----	
\$ 10 2-Fluorophenol		112	4.557	4.549	(0.829)	154166	56.0303	1868	
19 Bis(2-chloroethyl)ether		93	5.305	5.302	(0.965)	179427	62.5346	2084	
\$ 15 Phenol-d5		99	5.235	5.227	(0.952)	199638	56.7155	1890	
16 Phenol		94	5.246	5.238	(0.954)	272914	69.8255	2328	
20 2-Chlorophenol		128	5.369	5.361	(0.977)	218977	67.5599	2252	
21 1,3-Dichlorobenzene		146	5.470	5.468	(0.995)	192240	54.8247	1827	
* 22 1,4-Dichlorobenzene-d4		152	5.497	5.495	(1.000)	95942	40.0000		
23 1,4-Dichlorobenzene		146	5.508	5.505	(1.002)	200753	54.7734	1826	
26 1,2-Dichlorobenzene		146	5.652	5.649	(1.028)	195028	57.3721	1912	
28 2,2-oxybis(1-Chloropropane)		45	5.700	5.703	(1.037)	197100	69.2923	2310	
27 2-Methylphenol		108	5.684	5.676	(1.034)	196847	71.2265	2374	
35 Hexachloroethane		117	5.881	5.879	(1.070)	80819	58.2654	1942	
32 N-Nitrosodinpropylamine		70	5.812	5.815	(1.057)	172378	78.1374	2604	
29 3 and 4-Methylphenol		107	5.785	5.783	(1.052)	271237	80.1612	2672	
\$ 36 Nitrobenzene-d5		82	5.930	5.927	(0.917)	131616	34.9031	1163	
37 Nitrobenzene		77	5.946	5.943	(0.920)	253931	67.4472	2248	
39 Isophorone		82	6.106	6.103	(0.945)	435216	73.1300	2438	
40 2-Nitrophenol		139	6.181	6.178	(0.956)	120898	67.1110	2237	
41 2,4-Dimethylphenol		107	6.181	6.178	(0.956)	265664	71.1272	2371	
42 Bis(2-chloroethoxy)methane		93	6.250	6.248	(0.967)	239319	72.9034	2430	

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2446.D

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Report Date: 16-Apr-2010 11:41

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/mL)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
45 2,4-Dichlorophenol		162	6.357	6.349	(0.983)	189225	71.1087	2370
47 1,2,4-Trichlorobenzene		180	6.426	6.424	(0.994)	201718	68.5264	2284
* 48 Naphthalene-d8		136	6.464	6.461	(1.000)	341399	40.0000	
50 Naphthalene		128	6.480	6.477	(1.002)	616273	67.1406	2238
51 4-Chloroaniline		127	6.522	6.520	(1.009)	151421	37.7204	1257
54 Hexachlorobutadiene		225	6.597	6.595	(1.021)	127034	62.4216	2081
62 2-Methylnaphthalene		142	7.003	7.001	(1.083)	427077	65.1238	2171
59 4-Chloro-3-Methylphenol		107	6.864	6.857	(1.062)	226280	71.9758	2399
66 Hexachlorocyclopentadiene		237	7.174	7.172	(0.914)	93180	41.1376	1371
67 2,4,6-Trichlorophenol		196	7.238	7.230	(0.922)	151636	72.3920	2413
\$ 69 2-Fluorobiphenyl		172	7.286	7.289	(0.928)	249141	36.2013	1207
68 2,4,5-Trichlorophenol		196	7.270	7.262	(0.926)	156045	67.1490	2238
72 2-Chloronaphthalene		162	7.393	7.391	(0.942)	406889	72.9379	2431
73 2-Nitroaniline		65	7.489	7.481	(0.954)	155501	75.5760	2519
76 Dimethylphthalate		163	7.623	7.620	(0.971)	526913	77.6764	2589
79 Acenaphthylene		152	7.735	7.727	(0.985)	664514	75.7721	2526
80 2,6-Dinitrotoluene		165	7.697	7.690	(0.980)	117247	75.1905	2506
* 82 Acenaphthene-d10		164	7.852	7.850	(1.000)	192796	40.0000	
83 Acenaphthene		153	7.879	7.877	(1.003)	428755	73.3632	2445
81 3-Nitroaniline		138	7.815	7.813	(0.995)	92491	58.7443	1958
84 2,4-Dinitrophenol		184	7.895	7.887	(1.005)	61682	51.2042	1707 (QM)
86 Dibenzofuran		168	8.002	7.994	(1.019)	620283	69.9301	2331
88 2,4-Dinitrotoluene		165	8.013	8.005	(1.020)	159503	76.6755	2556
85 4-Nitrophenol		109	7.922	7.909	(1.009)	105758	76.8225	2561
94 Fluorene		166	8.280	8.277	(1.054)	516911	75.5031	2517
93 Diethylphthalate		149	8.178	8.176	(1.041)	539539	81.4464	2715
95 4-Chlorophenyl-phenylether		204	8.253	8.251	(1.051)	269916	76.0586	2535
98 4-Nitroaniline		138	8.317	8.315	(1.059)	85938	54.3940	1813
99 4,6-Dinitro-2-methylphenol		198	8.344	8.336	(0.923)	88736	56.1903	1873
100 N-Nitrosodiphenylamine		169	8.354	8.352	(0.924)	444271	92.4929	3083
\$ 104 2,4,6-Tribromophenol		330	8.493	8.491	(0.939)	63834	57.5010	1917
109 4-Bromophenyl-phenylether		248	8.648	8.646	(0.956)	171213	77.4153	2580
112 Hexachlorobenzene		284	8.792	8.790	(0.972)	155085	67.9648	2265
117 Pentachlorophenol		266	8.931	8.929	(0.988)	90729	53.9814	1799
* 121 Phenanthrene-d10		188	9.043	9.041	(1.000)	383569	40.0000	
122 Phenanthrene		178	9.065	9.062	(1.002)	795435	78.6577	2622
124 Anthracene		178	9.102	9.100	(1.006)	776216	74.7890	2493
126 Carbazole		167	9.225	9.217	(1.020)	716112	77.0020	2567
129 Di-n-Butylphthalate		149	9.481	9.474	(1.048)	938048	81.8057	2727
134 Fluoranthene		202	10.048	10.045	(1.111)	982550	90.8960	3030
137 Pyrene		202	10.245	10.243	(0.894)	1033831	86.8774	2896
\$ 139 Terphenyl-d14		244	10.331	10.334	(0.902)	378331	41.4934	1383
146 Butylbenzylphthalate		149	10.769	10.766	(0.940)	460919	85.7442	2858
150 Benzo (a) Anthracene		228	11.431	11.423	(0.998)	892278	82.2218	2741
* 153 Chrysene-d12		240	11.458	11.450	(1.000)	430283	40.0000	
152 3,3'-Dichlorobenzidine		252	11.383	11.375	(0.993)	95805	20.2959	676.5
154 Chrysene		228	11.490	11.482	(1.003)	866559	78.9140	2630
155 bis(2-ethylhexyl) Phthalate		149	11.361	11.359	(0.992)	640321	86.7006	2890
158 Di-n-octylphthalate		149	12.173	12.171	(0.883)	989334	153.011	5100 (R)
160 Benzo (b) fluoranthene		252	13.039	13.025	(0.946)	558697	95.7905	3193
161 Benzo (k) fluoranthene		252	13.076	13.074	(0.948)	618983	96.5945	3220
165 Benzo (a) pyrene		252	13.669	13.666	(0.991)	442359	76.7384	2558
* 166 Perylene-d12		264	13.786	13.779	(1.000)	214305	40.0000	
173 Indeno(1,2,3-cd)pyrene		276	16.072	16.070	(1.166)	350967	55.2380	1841 (M)

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2446.D  
Report Date: 16-Apr-2010 11:41

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/Kg)
174 Dibenzo(a,h)anthracene	278	16.083	16.081	(1.167)	349704	61.7695	2059
177 Benzo(g,h,i)perylene	276	16.617	16.609	(1.205)	331783	62.2793	2076

## QC Flag Legend

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

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2446.D  
 Report Date: 16-Apr-2010 11:41

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TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i  
 Lab File ID: JSMP2446.D  
 Lab Smp Id: LXL41E4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D070439-002S (0100038) SON

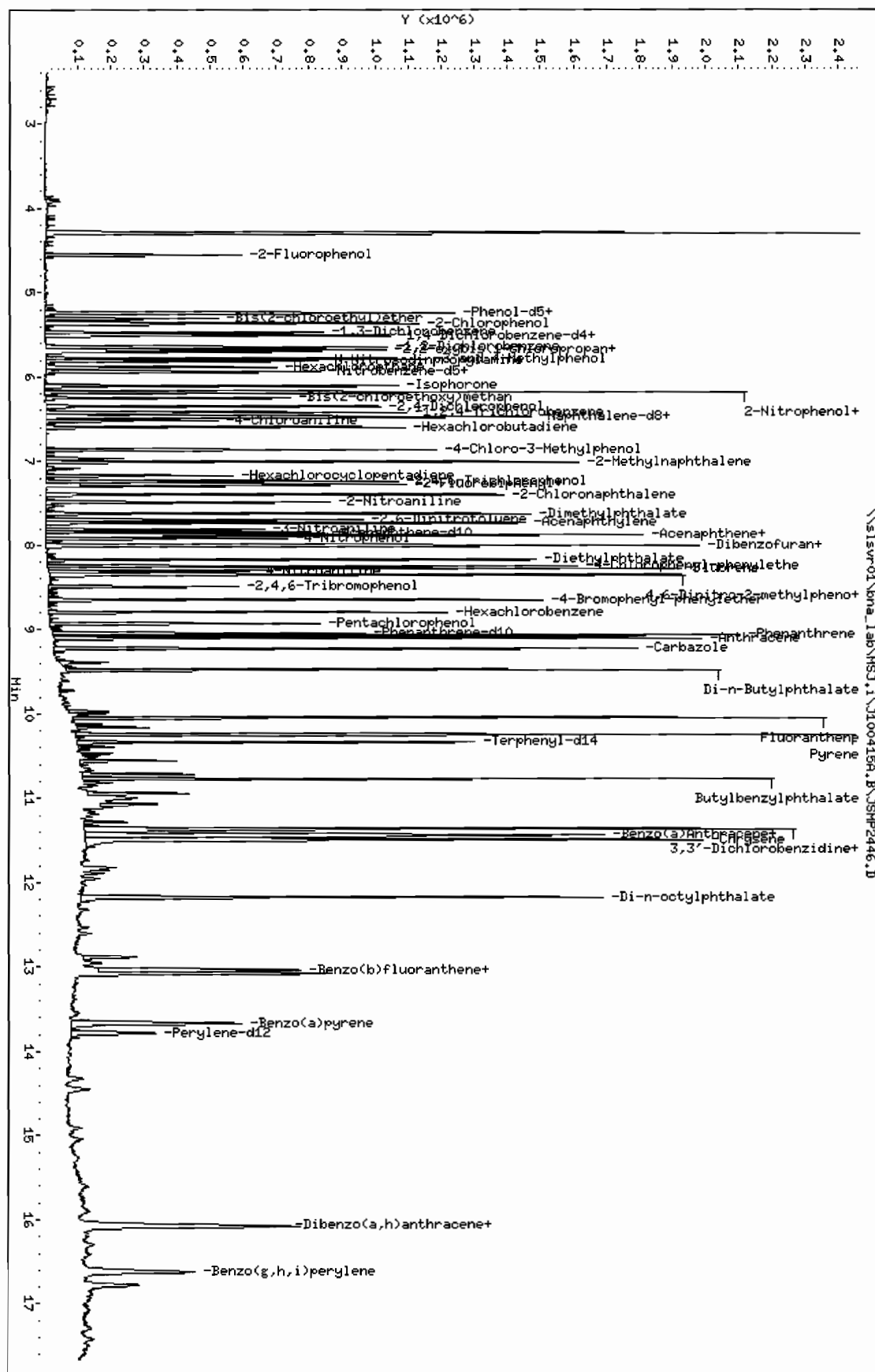
Calibration Date: 15-APR-2010  
 Calibration Time: 11:13  
 Client Smp ID: WST32-10-13889S  
 Level: LOW  
 Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	95942	-6.15
48 Naphthalene-d8	360526	180263	721052	341399	-5.31
82 Acenaphthene-d10	206190	103095	412380	192796	-6.50
121 Phenanthrene-d10	415780	207890	831560	383569	-7.75
153 Chrysene-d12	446285	223143	892570	430283	-3.59
166 Perylene-d12	410994	205497	821988	214305	-47.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.50	0.04
48 Naphthalene-d8	6.46	5.96	6.96	6.46	0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.03
153 Chrysene-d12	11.45	10.95	11.95	11.46	0.07
166 Perylene-d12	13.78	13.28	14.28	13.79	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.

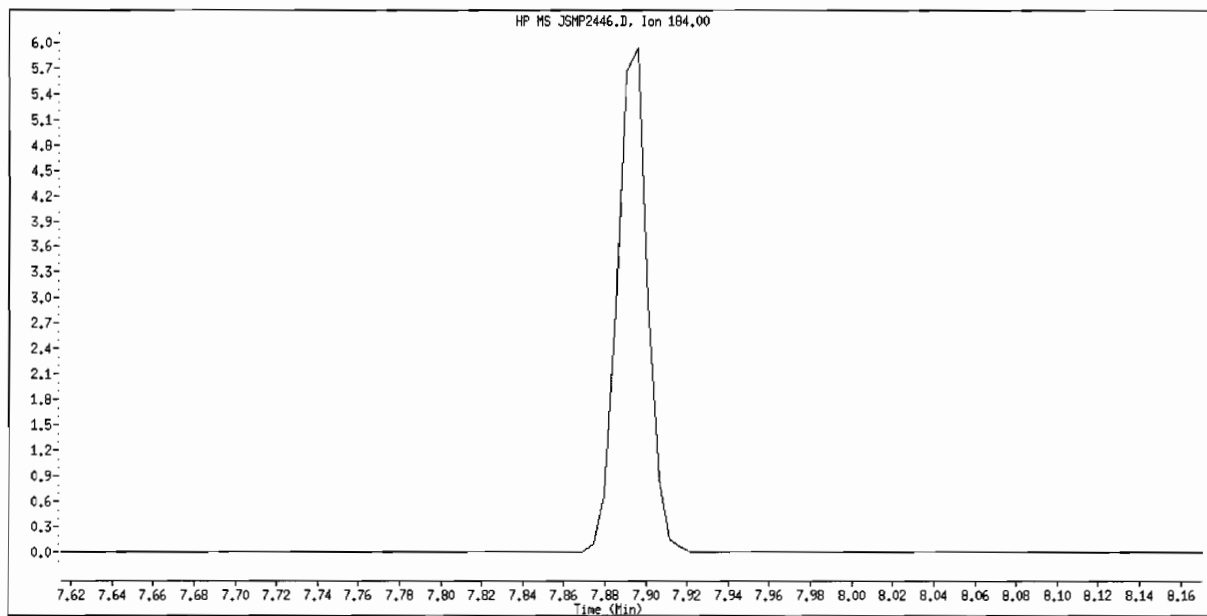




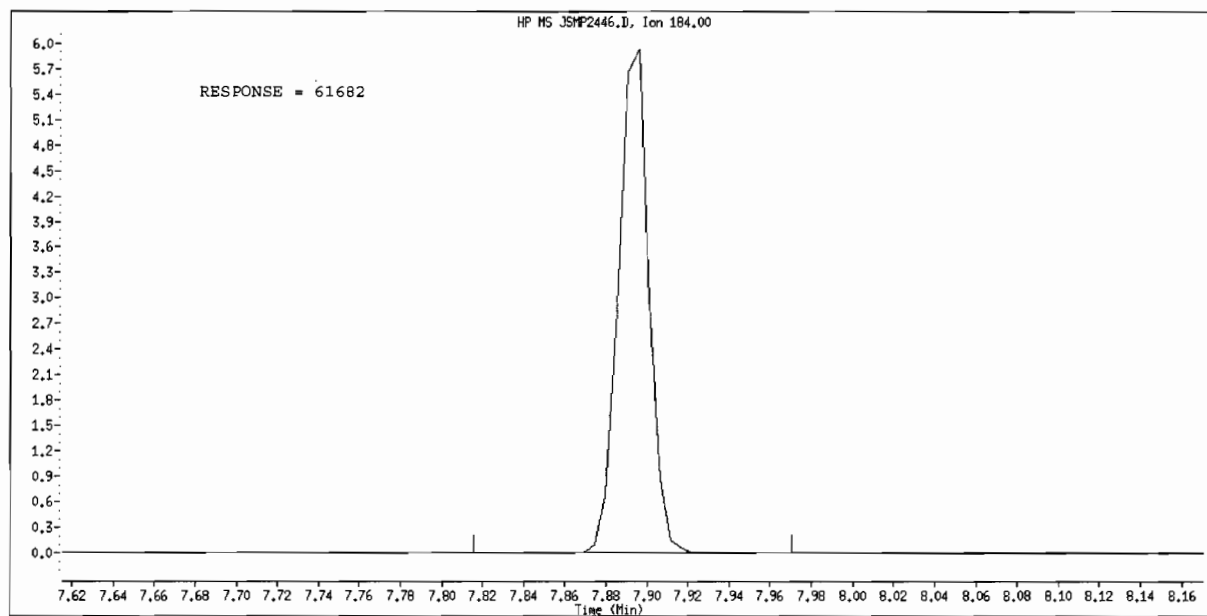
Data File: \\slswr01\hna\_lab\MSJ.1\1004159.B\JSP2446.D  
 Date: 15-APR-2010 18:23  
 Client ID: MST32-10-13889S  
 Sample Info: LXR41E4  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: MSJ.1  
 Operator: JM/MK  
 Column diameter: 2.00

Data File Name: JSMP2446.D  
Inj. Date and Time: 15-APR-2010 18:23  
Instrument ID: MSJ.i  
Client ID: WST32-10-13889S  
Compound Name: 2,4-Dinitrophenol  
CAS #: 51-28-5



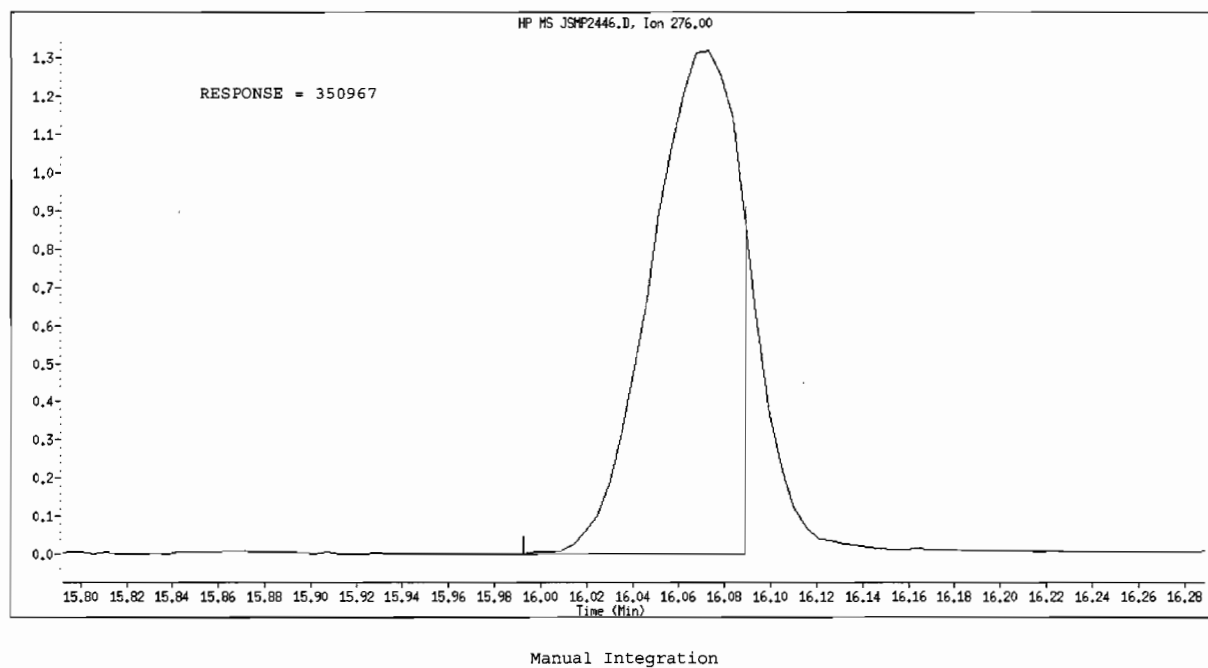
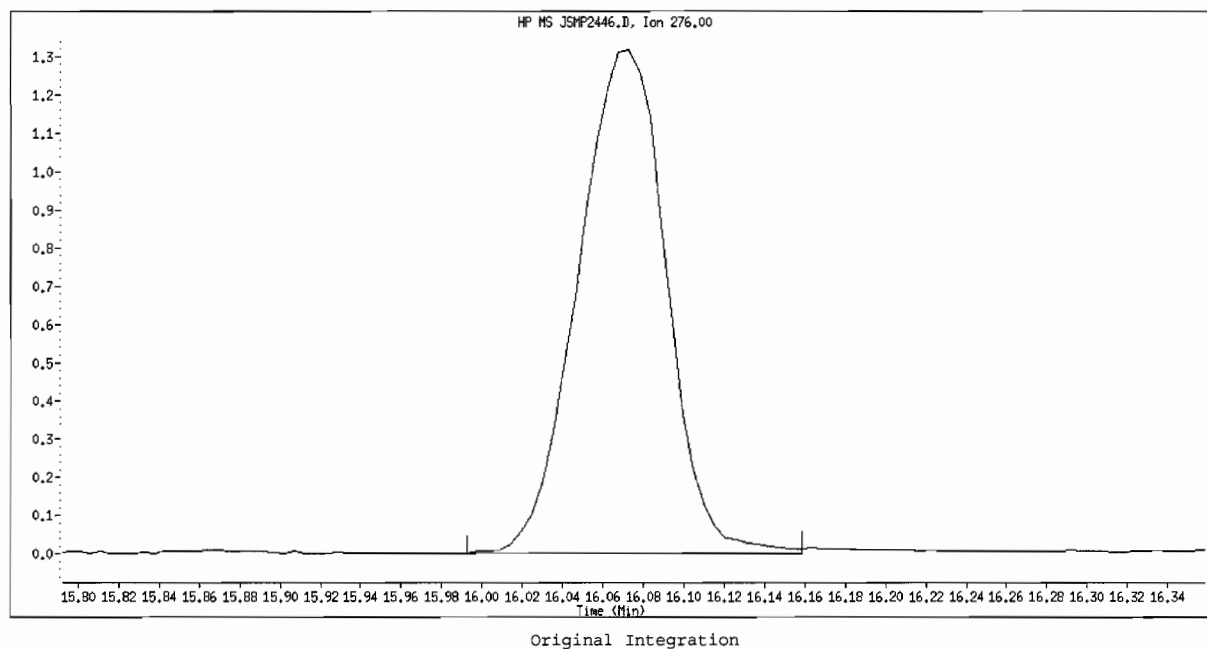
Original Integration



Manual Integration

Manually Integrated By: winklerj  
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: JSMP2446.D  
Inj. Date and Time: 15-APR-2010 18:23  
Instrument ID: MSJ.i  
Client ID: WST32-10-13889S  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: winklerj  
Manual Integration Reason: Incomplete Integration

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2447.D  
 Report Date: 16-Apr-2010 11:43

Page 1

TestAmerica St. Louis

## GC/MS SEMIVOLATILES

Data file : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2447.D  
 Lab Smp Id: LXL41E5 Client Smp ID: WST32-10-13889D  
 Inj Date : 15-APR-2010 18:48  
 Operator : JW/MAK Inst ID: MSJ.i  
 Smp Info : LXL41E5  
 Misc Info : F0D070439-002D (0100038) SON  
 Comment :  
 Method : \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Meth Date : 16-Apr-2010 10:46 winklerj Quant Type: ISTD  
 Cal Date : 15-APR-2010 11:38 Cal File: JCAL2430.D  
 Als bottle: 21 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: SONMS09B.sub  
 Target Version: 4.14  
 Processing Host: SLGC05

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Unit Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume Injected
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorophenol	112	4.552	4.549 (0.829)		166177	59.4506	1982
19 Bis(2-chloroethyl)ether	93	5.305	5.302 (0.966)		200802	68.8893	2296
\$ 15 Phenol-d5	99	5.236	5.227 (0.953)		213531	59.7133	1990
16 Phenol	94	5.241	5.238 (0.954)		295958	74.5366	2484
20 2-Chlorophenol	128	5.364	5.361 (0.977)		235906	71.6442	2388
21 1,3-Dichlorobenzene	146	5.465	5.468 (0.995)		217304	61.0030	2033
* 22 1,4-Dichlorobenzene-d4	152	5.492	5.495 (1.000)		97467	40.0000	
23 1,4-Dichlorobenzene	146	5.503	5.505 (1.002)		226849	60.9251	2031
26 1,2-Dichlorobenzene	146	5.647	5.649 (1.028)		216940	62.8195	2094
28 2,2-oxybis(1-Chloropropane)	45	5.700	5.703 (1.038)		219687	76.0245	2534
27 2-Methylphenol	108	5.679	5.676 (1.034)		210938	75.1310	2504
35 Hexachloroethane	117	5.877	5.879 (1.070)		85379	60.5898	2020
32 N-Nitrosodipropylamine	70	5.807	5.815 (1.057)		186277	83.1166	2770
29 3 and 4-Methylphenol	107	5.780	5.783 (1.053)		287925	83.7618	2792
\$ 36 Nitrobenzene-d5	82	5.925	5.927 (0.917)		137866	37.5610	1252
37 Nitrobenzene	77	5.941	5.943 (0.920)		271839	74.1798	2473
39 Isophorone	82	6.106	6.103 (0.945)		467697	80.7385	2691
40 2-Nitrophenol	139	6.181	6.178 (0.957)		129841	74.0478	2468
41 2,4-Dimethylphenol	107	6.176	6.178 (0.956)		279036	76.7518	2558
42 Bis(2-chloroethoxy)methane	93	6.250	6.248 (0.968)		252850	79.1332	2638

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2447.D  
Report Date: 16-Apr-2010 11:43

Page 2

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
45 2,4-Dichlorophenol	162		6.352	6.349	(0.983)		199045	76.8459	2562
47 1,2,4-Trichlorobenzene	180		6.421	6.424	(0.994)		215391	75.1738	2506
* 48 Naphthalene-d8	136		6.459	6.461	(1.000)		332305	40.0000	
50 Naphthalene	128		6.475	6.477	(1.002)		647341	72.4553	2415
51 4-Chloroaniline	127		6.517	6.520	(1.009)		155742	39.8585	1329
54 Hexachlorobutadiene	225		6.592	6.595	(1.021)		138596	69.9666	2332
62 2-Methylnaphthalene	142		6.998	7.001	(1.084)		458753	71.8684	2396
59 4-Chloro-3-Methylphenol	107		6.859	6.857	(1.062)		234095	76.4994	2550
66 Hexachlorocyclopentadiene	237		7.169	7.172	(0.914)		79051	36.0378	1201
67 2,4,6-Trichlorophenol	196		7.233	7.230	(0.922)		147945	72.9329	2431
\$ 69 2-Fluorobiphenyl	172		7.287	7.289	(0.929)		250786	37.6285	1254
68 2,4,5-Trichlorophenol	196		7.265	7.262	(0.926)		155117	68.9262	2298
72 2-Chloronaphthalene	162		7.388	7.391	(0.941)		415912	76.9864	2566
73 2-Nitroaniline	65		7.484	7.481	(0.954)		159883	80.2394	2675
76 Dimethylphthalate	163		7.618	7.620	(0.971)		530955	80.8245	2694
79 Acenaphthylene	152		7.730	7.727	(0.985)		675138	79.4937	2650
80 2,6-Dinitrotoluene	165		7.693	7.690	(0.980)		120712	79.9368	2664
* 82 Acenaphthene-d10	164		7.847	7.850	(1.000)		186708	40.0000	
83 Acenaphthene	153		7.874	7.877	(1.003)		432628	76.4396	2548
81 3-Nitroaniline	138		7.815	7.813	(0.996)		100038	65.6095	2187
84 2,4-Dinitrophenol	184		7.890	7.887	(1.005)		59801	51.2564	1708 (QM)
86 Dibenzofuran	168		7.997	7.994	(1.019)		628458	73.1620	2439
88 2,4-Dinitrotoluene	165		8.008	8.005	(1.020)		163312	81.0664	2702
85 4-Nitrophenol	109		7.917	7.909	(1.009)		102668	77.0097	2567
94 Fluorene	166		8.275	8.277	(1.054)		557899	84.1472	2805
93 Diethylphthalate	149		8.173	8.176	(1.042)		573778	89.4393	2981
95 4-Chlorophenyl-phenylether	204		8.248	8.251	(1.051)		290442	84.5112	2817
98 4-Nitroaniline	138		8.317	8.315	(1.060)		101310	66.2145	2207
99 4,6-Dinitro-2-methylphenol	198		8.339	8.336	(0.922)		92441	56.5367	1884
100 N-Nitrosodiphenylamine	169		8.349	8.352	(0.923)		482648	97.0499	3235
\$ 104 2,4,6-Tribromophenol	330		8.488	8.491	(0.939)		69488	60.4558	2015
109 4-Bromophenyl-phenylether	248		8.643	8.646	(0.956)		182959	79.9002	2663
112 Hexachlorobenzene	284		8.793	8.790	(0.972)		166298	70.3891	2346
117 Pentachlorophenol	266		8.926	8.929	(0.987)		98096	56.3707	1879
* 121 Phenanthrene-d10	188		9.044	9.041	(1.000)		397136	40.0000	
122 Phenanthrene	178		9.065	9.062	(1.002)		854259	81.5888	2720
124 Anthracene	178		9.097	9.100	(1.006)		829912	77.2310	2574
126 Carbazole	167		9.220	9.217	(1.019)		789308	81.9732	2732
129 Di-n-Butylphthalate	149		9.476	9.474	(1.048)		1010473	85.1113	2837
134 Fluoranthene	202		10.048	10.045	(1.111)		1032337	92.2393	3075
137 Pyrene	202		10.240	10.243	(0.894)		1067245	98.6928	3290 (H)
\$ 139 Terphenyl-d14	244		10.331	10.334	(0.902)		369357	44.5777	1486
146 Butylbenzylphthalate	149		10.769	10.766	(0.940)		468447	95.8969	3196
150 Benzo(a)Anthracene	228		11.426	11.423	(0.998)		819570	83.1068	2770
* 153 Chrysene-d12	240		11.453	11.450	(1.000)		391012	40.0000	
152 3,3'-Dichlorobenzidine	252		11.378	11.375	(0.993)		114168	26.6151	887.2
154 Chrysene	228		11.485	11.482	(1.003)		787168	78.8837	2629
155 bis(2-ethylhexyl)Phthalate	149		11.356	11.359	(0.992)		631222	94.0526	3135
158 Di-n-octylphthalate	149		12.168	12.171	(0.883)		910197	145.769	4859 (R)
160 Benzo(b)fluoranthene	252		13.034	13.025	(0.946)		512914	91.0627	3035
161 Benzo(k)fluoranthene	252		13.071	13.074	(0.948)		570258	92.1500	3072
165 Benzo(a)pyrene	252		13.664	13.666	(0.991)		426901	76.6859	2556
* 166 Perylene-d12	264		13.781	13.779	(1.000)		206958	40.0000	
173 Indeno(1,2,3-cd)pyrene	276		16.067	16.070	(1.166)		373857	60.9295	2031 (M)

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2447.D  
Report Date: 16-Apr-2010 11:43

Page 3

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
174 Dibenzo(a,h)anthracene	278		16.078	16.081	(1.167)	374326	68.4658	2282
177 Benzo(g,h,i)perylene	276		16.617	16.609	(1.206)	352451	68.5076	2284

## QC Flag Legend

Q - Qualifier signal failed the ratio test.  
R - Spike/Surrogate failed recovery limits.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.

Data File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\JSMP2447.D  
 Report Date: 16-Apr-2010 11:43

Page 1

TestAmerica St. Louis

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: MSJ.i Calibration Date: 15-APR-2010  
 Lab File ID: JSMP2447.D Calibration Time: 11:13  
 Lab Smp Id: LXL41E5 Client Smp ID: WST32-10-13889D  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: SOIL  
 Operator: JW/MAK  
 Method File: \\slsvr01\bna\_lab\MSJ.i\J100415A.B\8270J\_625.m  
 Misc Info: F0D070439-002D (0100038) SON

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	102224	51112	204448	97467	-4.65
48 Naphthalene-d8	360526	180263	721052	332305	-7.83
82 Acenaphthene-d10	206190	103095	412380	186708	-9.45
121 Phenanthrene-d10	415780	207890	831560	397136	-4.48
153 Chrysene-d12	446285	223143	892570	391012	-12.39
166 Perylene-d12	410994	205497	821988	206958	-49.64

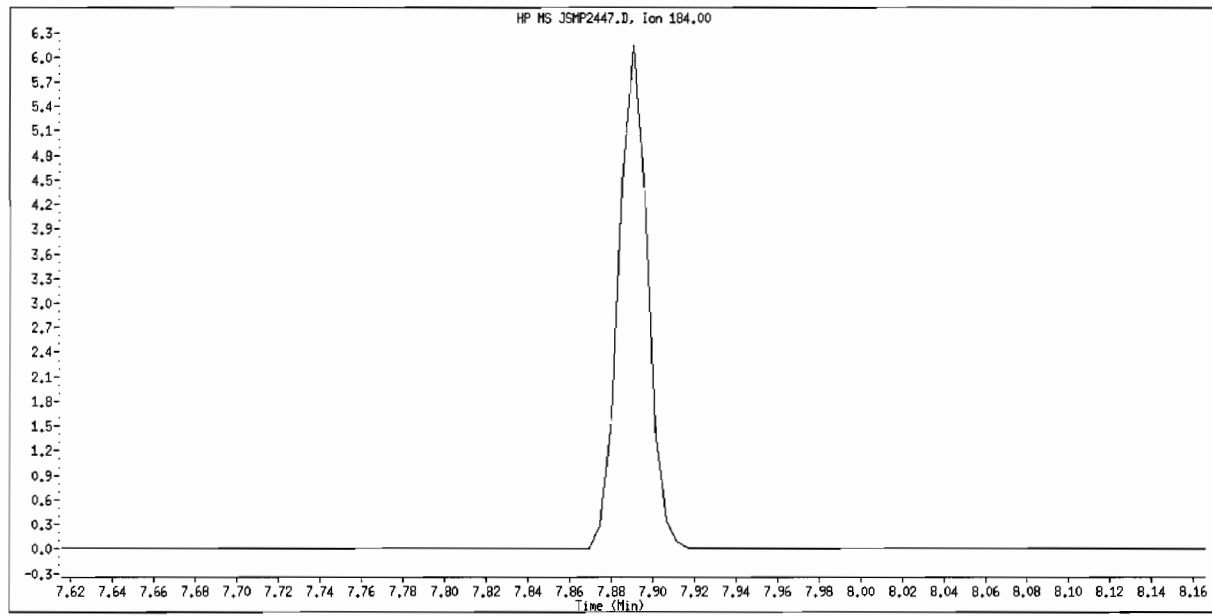
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.50	5.00	6.00	5.49	-0.05
48 Naphthalene-d8	6.46	5.96	6.96	6.46	-0.04
82 Acenaphthene-d10	7.85	7.35	8.35	7.85	-0.03
121 Phenanthrene-d10	9.04	8.54	9.54	9.04	0.03
153 Chrysene-d12	11.45	10.95	11.95	11.45	0.02
166 Perylene-d12	13.78	13.28	14.28	13.78	0.02

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.

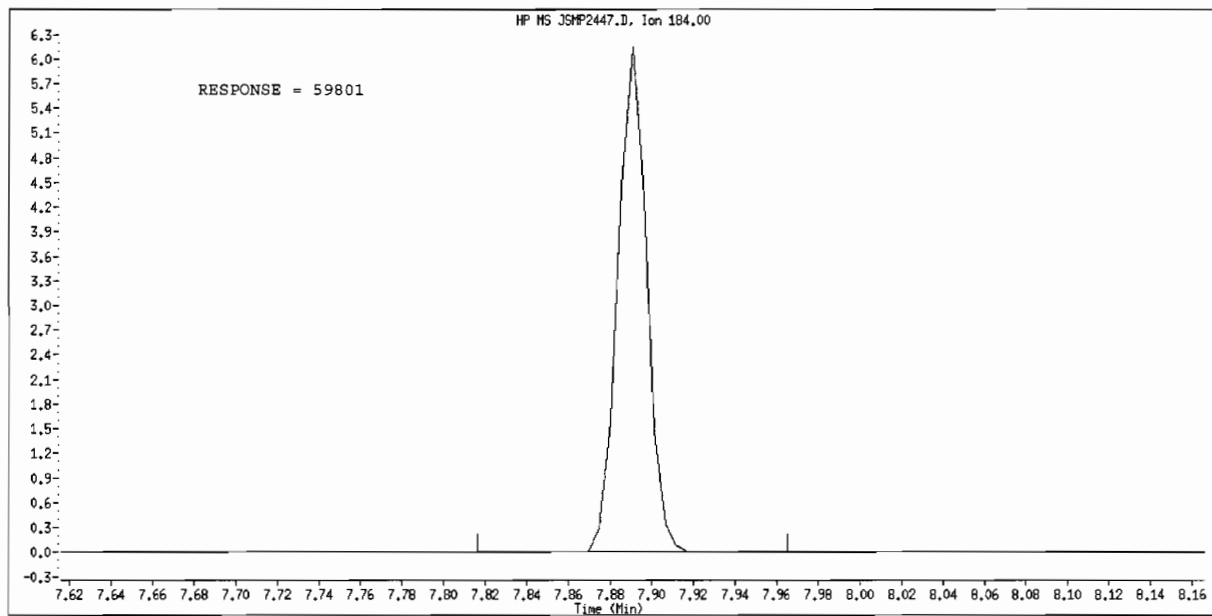




Data File Name: JSMP2447.D  
Inj. Date and Time: 15-APR-2010 18:48  
Instrument ID: MSJ.i  
Client ID: WST32-10-13889D  
Compound Name: 2,4-Dinitrophenol  
CAS #: 51-28-5



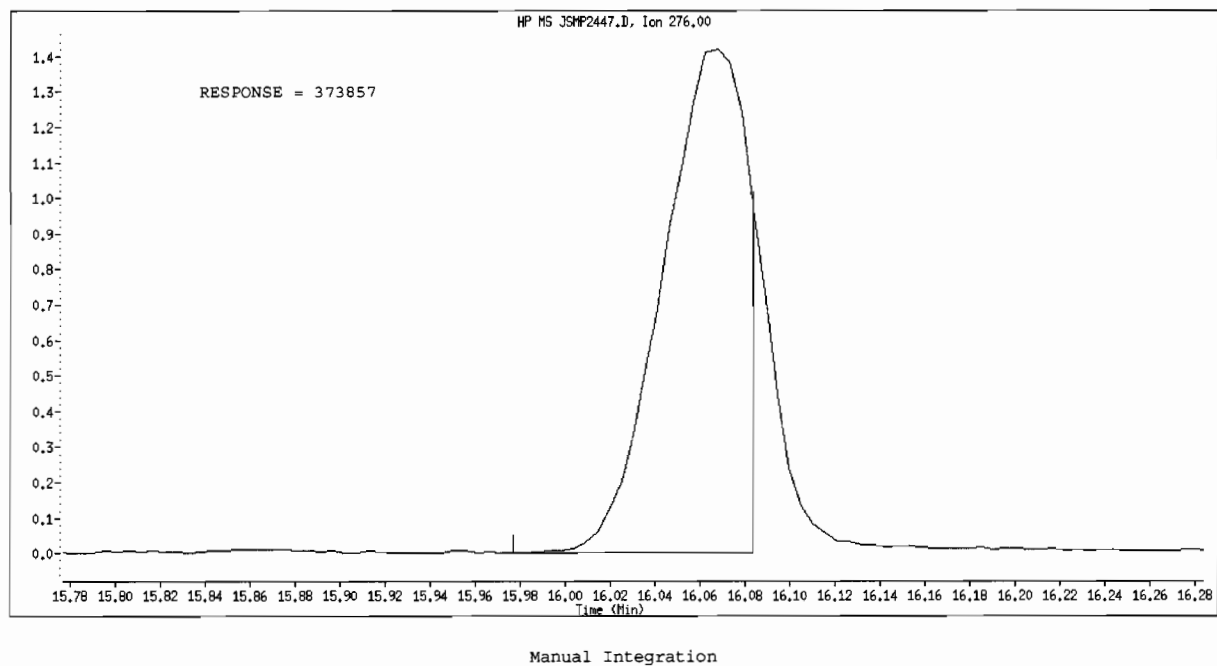
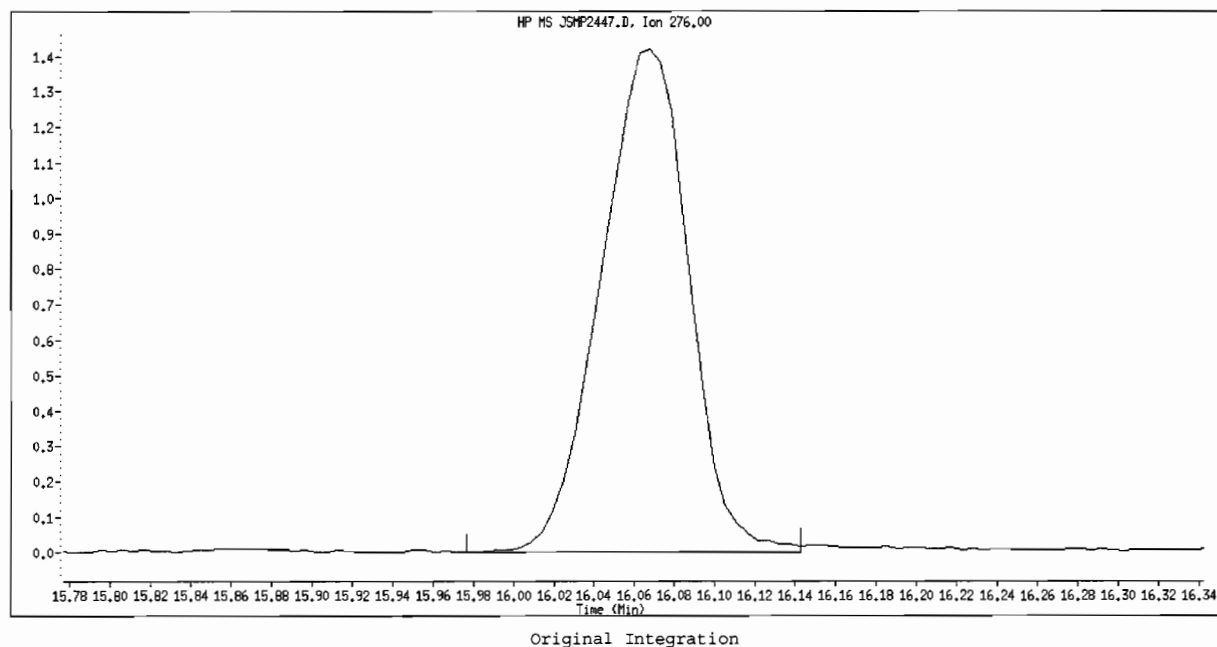
Original Integration



Manual Integration

Manually Integrated By: winklerj  
Manual Integration Reason: Analyte not Identified by the Data System

Data File Name: JSMP2447.D  
Inj. Date and Time: 15-APR-2010 18:48  
Instrument ID: MSJ.i  
Client ID: WST32-10-13889D  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5



Manually Integrated By: winklerj  
Manual Integration Reason: Incomplete Integration

## **GC/MS MISCELLANEOUS DATA**

LOT # F008045

Prep Method: SW-846 3550B

Prep Description: SONICATION - Low Level

## Organic Prep Report for Batch # 0100038

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

SOP Number: ST-OP-0002

Matrix: SOLID

Extraction Date: 4/10/2010

Lot Number	WorkOrder No	AnalDueDate	Wt/Vol	Initials: MPY			Initials: ND/MS		Initials: Cleanup 1		Initials: Cleanup 2	
				pH 1	pH 2	Extr Unit	Volume	Date	Method	Date	Method	Date
F0D070439 - 002	LXL41A8	04/16/2010	30 g				1 mL	8/20/11-03				
F0D070439 - 002D	LXL41E5	04/16/2010	30 g				1 mL					
F0D070439 - 002S	LXL41E4	04/16/2010	30 g				1 mL					
F0D080489 - 001	LXNJ91AE	04/16/2010	30 g				1 mL					
F0D080489 - 002	LXNKG1AE	04/16/2010	30 g				1 mL					
F0D080489 - 003	LXNKE1AE	04/16/2010	30 g				1 mL					
F0D080489 - 004	LXNKG1AE	04/16/2010	30 g				1 mL					
F0D080489 - 005	LXNKH1AE	04/16/2010	30 g				1 mL					
F0D080489 - 006	LXNKL1AE	04/16/2010	30 g				1 mL					
F0D080489 - 007	LXNKL1AE	04/16/2010	30 g				1 mL					
F0D100000 - 038B	LXRW21AA		30 g				1 mL					
F0D100000 - 038C	LXRW21AC		30 g				1 mL					

8/20/11-03

454

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate  
PrepSheet Generator 1.26, updated 11/14/2008

1145

LOT

**Spike Information**

#	Name	Standard ID	Exp Date	Vol Added
1	BXA Spike	OP0305-10	10/6/2010	1000 uL
2	BXA Surrogate	OP0301-10	10/6/2010	500 uL

*JDA*

Spiking verified by:

**Miscellaneous Information**

Start: Stop:

Extr 1:

Extr 2:

Conc Method: steam bath

Conc Temp C: 89.9

**Chemical Lot Information**

Chemical	Lot Number
Acetone/Methylene	J06E35
Methylene Chloride	J08J02
Sodium Sulfate	H355594

**Comments:**

**Custody Information**

Relinquished By:

*NJD*

Review/Received By:

*[Signature]*

Date of Transfer:

*4/12/10*

455

1145

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, S=sample duplicate, X=sample spike, D=matrix spike duplicate  
PrepSheet Generator 1.26, updated 11/14/2008

# TestAmerica GC/MS-Semivolatiles Runlog

Date: 04-15-10

Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
WD2427	8200125	51012710						Conductivity of
FL2428 (10:55)		510105-10						
AL2429 10:45A		510105-10						
2430		510105-10						Passes for 8200125
2431		510105-10						compounds
2432		510105-10						
2433		510105-10						
2434		510105-10						
2435		510105-10						do not use this point
2436		510105-10						NH4#16.0152905.015290.01
2437		510105-10						
2438		510105-10						
2439		510105-10						
2440		510105-10						
2441		510105-10						
2442		510105-10						
2443		510105-10						
2444		510105-10						
2445		510105-10						
2446		510105-10						
2447		510105-10						
2448		510105-10						
2449		510105-10						
2450		510105-10						
2451		510105-10						

Reviewed By: *[Signature]* 4/15/10

Form: SL-ORG-0006, Rev. 5/8/09

QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; D=Matrix Spike Duplicate.

SLP Reference: ST-MS-0001 Rev 10 01/14/09

# **LC/MS/MS SAMPLE AND QC DATA**

**Form I (s)**

Explosives

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 001

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNJ91AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/14/10

Moisture %: 17

QC Batch: 0099309

Client Sample Id: RE12-10-15444

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
55-63-0	Nitroglycerin	750	U
6629-29-4	2,4-diamino-6-nitrotoluene	120	U
59229-75-3	2,6-diamino-4-nitrotoluene	120	U
618-87-1	3,5-Dinitroaniline	60	U
78-30-8	Tris (o-cresyl) Phosphate	60	U
3058-38-6	TATB	480	U
35572-78-2	2-Amino-4,6-dinitrotoluene	60	U
19406-51-0	4-Amino-2,6-dinitrotoluene	60	U
99-65-0	1,3-Dinitrobenzene	60	U
121-14-2	2,4-Dinitrotoluene	60	U
606-20-2	2,6-Dinitrotoluene	60	U
2691-41-0	HMX	120	U
98-95-3	Nitrobenzene	120	U
88-72-2	2-Nitrotoluene	300	U
99-08-1	3-Nitrotoluene	480	U
99-99-0	4-Nitrotoluene	480	U
121-82-4	RDX	120	U
479-45-8	Tetryl	60	U
99-35-4	1,3,5-Trinitrobenzene	60	U
118-96-7	2,4,6-Trinitrotoluene	60	U
78-11-5	PETN	750	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

118

(59 - 113 )



## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 002

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNKC1AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 16

QC Batch: 0099309

Client Sample Id: RE12-10-15443

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
55-63-0	Nitroglycerin	740	U
6629-29-4	2,4-diamino-6-nitrotoluene	120	U
59229-75-3	2,6-diamino-4-nitrotoluene	120	U
618-87-1	3,5-Dinitroaniline	59	U
78-30-8	Tris (o-cresyl) Phosphate	59	U
3058-38-6	TATB	470	U
35572-78-2	2-Amino-4,6-dinitrotoluene	59	U
19406-51-0	4-Amino-2,6-dinitrotoluene	59	U
99-65-0	1,3-Dinitrobenzene	59	U
121-14-2	2,4-Dinitrotoluene	59	U
606-20-2	2,6-Dinitrotoluene	59	U
2691-41-0	HMX	120	U
98-95-3	Nitrobenzene	120	U
88-72-2	2-Nitrotoluene	300	U
99-08-1	3-Nitrotoluene	470	U
99-99-0	4-Nitrotoluene	470	U
121-82-4	RDX	120	U
479-45-8	Tetryl	59	U
99-35-4	1,3,5-Trinitrobenzene	59	U
118-96-7	2,4,6-Trinitrotoluene	59	U
78-11-5	PETN	740	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

111

(59 - 113 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 003

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNKE1AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0099309

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
55-63-0	Nitroglycerin	730	U
6629-29-4	2,4-diamino-6-nitrotoluene	120	U
59229-75-3	2,6-diamino-4-nitrotoluene	120	U
618-87-1	3,5-Dinitroaniline	58	U
78-30-8	Tris (o-cresyl) Phosphate	58	U
3058-38-6	TATB	470	U
35572-78-2	2-Amino-4,6-dinitrotoluene	58	U
19406-51-0	4-Amino-2,6-dinitrotoluene	58	U
99-65-0	1,3-Dinitrobenzene	58	U
121-14-2	2,4-Dinitrotoluene	58	U
606-20-2	2,6-Dinitrotoluene	58	U
2691-41-0	HMX	120	U
98-95-3	Nitrobenzene	120	U
88-72-2	2-Nitrotoluene	290	U
99-08-1	3-Nitrotoluene	470	U
99-99-0	4-Nitrotoluene	470	U
121-82-4	RDX	120	U
479-45-8	Tetryl	58	U
99-35-4	1,3,5-Trinitrobenzene	58	U
118-96-7	2,4,6-Trinitrotoluene	58	U
78-11-5	PETN	730	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

102

(59 - 113 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 004

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNKG1AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 15

QC Batch: 0099309

Client Sample Id: RE12-10-15448

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
55-63-0	Nitroglycerin	730	U
6629-29-4	2,4-diamino-6-nitrotoluene	120	U
59229-75-3	2,6-diamino-4-nitrotoluene	120	U
618-87-1	3,5-Dinitroaniline	59	U
78-30-8	Tris (o-cresyl) Phosphate	59	U
3058-38-6	TATB	470	U
35572-78-2	2-Amino-4,6-dinitrotoluene	59	U
19406-51-0	4-Amino-2,6-dinitrotoluene	59	U
99-65-0	1,3-Dinitrobenzene	59	U
121-14-2	2,4-Dinitrotoluene	59	U
606-20-2	2,6-Dinitrotoluene	59	U
2691-41-0	HMX	120	U
98-95-3	Nitrobenzene	120	U
88-72-2	2-Nitrotoluene	290	U
99-08-1	3-Nitrotoluene	470	U
99-99-0	4-Nitrotoluene	470	U
121-82-4	RDX	120	U
479-45-8	Tetryl	59	U
99-35-4	1,3,5-Trinitrobenzene	59	U
118-96-7	2,4,6-Trinitrotoluene	59	U
78-11-5	PETN	730	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

104

(59 - 113 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 005

Method: STL SW846 8321  
Explosives by LC/MS/MS

Sample WT/Vol: 2 / g      Date Received: 04/08/10

Work Order: LXNKH1AD      Date Extracted: 04/09/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 6.2

QC Batch: 0099309

Client Sample Id: RE12-10-15446

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
55-63-0	Nitroglycerin	670	U
6629-29-4	2,4-diamino-6-nitrotoluene	110	U
59229-75-3	2,6-diamino-4-nitrotoluene	110	U
618-87-1	3,5-Dinitroaniline	53	U
78-30-8	Tris (o-cresyl) Phosphate	53	U
3058-38-6	TATB	430	U
35572-78-2	2-Amino-4,6-dinitrotoluene	53	U
19406-51-0	4-Amino-2,6-dinitrotoluene	53	U
99-65-0	1,3-Dinitrobenzene	53	U
121-14-2	2,4-Dinitrotoluene	53	U
606-20-2	2,6-Dinitrotoluene	53	U
2691-41-0	HMX	110	U
98-95-3	Nitrobenzene	110	U
88-72-2	2-Nitrotoluene	270	U
99-08-1	3-Nitrotoluene	430	U
99-99-0	4-Nitrotoluene	430	U
121-82-4	RDX	110	U
479-45-8	Tetryl	53	U
99-35-4	1,3,5-Trinitrobenzene	53	U
118-96-7	2,4,6-Trinitrotoluene	53	U
78-11-5	PETN	670	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
1,2-Dinitrobenzene	110	(59 - 113 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 006

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNKJ1AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 14

QC Batch: 0099309

Client Sample Id: RE12-10-15445

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
55-63-0	Nitroglycerin	730	U
6629-29-4	2,4-diamino-6-nitrotoluene	120	U
59229-75-3	2,6-diamino-4-nitrotoluene	120	U
618-87-1	3,5-Dinitroaniline	58	U
78-30-8	Tris (o-cresyl) Phosphate	58	U
3058-38-6	TATB	470	U
35572-78-2	2-Amino-4,6-dinitrotoluene	58	U
19406-51-0	4-Amino-2,6-dinitrotoluene	58	U
99-65-0	1,3-Dinitrobenzene	58	U
121-14-2	2,4-Dinitrotoluene	58	U
606-20-2	2,6-Dinitrotoluene	58	U
2691-41-0	HMX	120	U
98-95-3	Nitrobenzene	120	U
88-72-2	2-Nitrotoluene	290	U
99-08-1	3-Nitrotoluene	470	U
99-99-0	4-Nitrotoluene	470	U
121-82-4	RDX	120	U
479-45-8	Tetryl	58	U
99-35-4	1,3,5-Trinitrobenzene	58	U
118-96-7	2,4,6-Trinitrotoluene	58	U
78-11-5	PETN	730	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

107

(59 - 113 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 007

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g

Date Received: 04/08/10

Work Order: LXNKL1AD

Date Extracted: 04/09/10

Dilution factor: 1

Date Analyzed: 04/15/10

Moisture %: 3.3

QC Batch: 0099309

Client Sample Id: RE12-10-15447

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
55-63-0	Nitroglycerin	650	U
6629-29-4	2,4-diamino-6-nitrotoluene	100	U
59229-75-3	2,6-diamino-4-nitrotoluene	100	U
618-87-1	3,5-Dinitroaniline	52	U
78-30-8	Tris (o-cresyl) Phosphate	52	U
3058-38-6	TATB	410	U
35572-78-2	2-Amino-4,6-dinitrotoluene	52	U
19406-51-0	4-Amino-2,6-dinitrotoluene	52	U
99-65-0	1,3-Dinitrobenzene	52	U
121-14-2	2,4-Dinitrotoluene	52	U
606-20-2	2,6-Dinitrotoluene	52	U
2691-41-0	HMX	100	U
98-95-3	Nitrobenzene	100	U
88-72-2	2-Nitrotoluene	260	U
99-08-1	3-Nitrotoluene	410	U
99-99-0	4-Nitrotoluene	410	U
121-82-4	RDX	100	U
479-45-8	Tetryl	52	U
99-35-4	1,3,5-Trinitrobenzene	52	U
118-96-7	2,4,6-Trinitrotoluene	52	U
78-11-5	PETN	650	U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

1,2-Dinitrobenzene

103

(59 - 113 )

FORM I

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D090000 309  
Method: STL SW846 8321  
Explosives by LC/MS/MS

Sample WT/Vol: 2 / g      Date Received: 04/08/10  
Work Order: LXQ9M1AA      Date Extracted: 04/09/10  
Dilution factor: 1      Date Analyzed: 04/14/10  
Moisture %: NA

QC Batch: 0099309

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg    Q
55-63-0	Nitroglycerin	620	U
6629-29-4	2,4-diamino-6-nitrotoluene	100	U
59229-75-3	2,6-diamino-4-nitrotoluene	100	U
618-87-1	3,5-Dinitroaniline	50	U
78-30-8	Tris (o-cresyl) Phosphate	50	U
3058-38-6	TATB	400	U
35572-78-2	2-Amino-4,6-dinitrotoluene	50	U
19406-51-0	4-Amino-2,6-dinitrotoluene	50	U
99-65-0	1,3-Dinitrobenzene	50	U
121-14-2	2,4-Dinitrotoluene	50	U
606-20-2	2,6-Dinitrotoluene	50	U
2691-41-0	HMX	100	U
98-95-3	Nitrobenzene	100	U
88-72-2	2-Nitrotoluene	250	U
99-08-1	3-Nitrotoluene	400	U
99-99-0	4-Nitrotoluene	400	U
121-82-4	RDX	100	U
479-45-8	Tetryl	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
118-96-7	2,4,6-Trinitrotoluene	50	U
78-11-5	PETN	620	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
1,2-Dinitrobenzene	120	(59    - 113    )

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D090000 309

Method: STL SW846 8321  
Explosives by LC/MS/MS

Sample WT/Vol: 2 / g      Date Received: 04/08/10

Work Order: LXQ9M1AC      Date Extracted: 04/09/10

Dilution factor: 1      Date Analyzed: 04/14/10

Moisture %: NA      QC Batch: 0099309

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg    Q
55-63-0	Nitroglycerin	4640	
6629-29-4	2,4-diamino-6-nitrotoluene	1640	
59229-75-3	2,6-diamino-4-nitrotoluene	1700	
618-87-1	3,5-Dinitroaniline	2040	
78-30-8	Tris (o-cresyl) Phosphate	399	
3058-38-6	TATB	1280	
35572-78-2	2-Amino-4,6-dinitrotoluene	2560	a
19406-51-0	4-Amino-2,6-dinitrotoluene	2550	a
99-65-0	1,3-Dinitrobenzene	1790	
121-14-2	2,4-Dinitrotoluene	1710	
606-20-2	2,6-Dinitrotoluene	2020	
2691-41-0	HMX	2070	
98-95-3	Nitrobenzene	2180	
88-72-2	2-Nitrotoluene	2470	a
99-08-1	3-Nitrotoluene	2220	
99-99-0	4-Nitrotoluene	2350	a
121-82-4	RDX	1610	
479-45-8	Tetryl	1800	
99-35-4	1,3,5-Trinitrobenzene	1550	
118-96-7	2,4,6-Trinitrotoluene	3060	a
78-11-5	PETN	5670	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
1,2-Dinitrobenzene	114	(56    - 123 )



Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: STL SW846 8321

Explosives by LC/MS/MS

Sample WT/Vol: 2 / g      Date Received: 04/08/10

Work Order: LXNJ91AH      Date Extracted: 04/09/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0099309

Client Sample Id: RE12-10-15444

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg
55-63-0	Nitroglycerin	4460	
6629-29-4	2,4-diamino-6-nitrotoluene	1670	
59229-75-3	2,6-diamino-4-nitrotoluene	1750	
618-87-1	3,5-Dinitroaniline	1910	
78-30-8	Tris (o-cresyl) Phosphate	458	
3058-38-6	TATB	1490	p
35572-78-2	2-Amino-4,6-dinitrotoluene	2340	
19406-51-0	4-Amino-2,6-dinitrotoluene	2480	
99-65-0	1,3-Dinitrobenzene	2300	
121-14-2	2,4-Dinitrotoluene	1740	
606-20-2	2,6-Dinitrotoluene	2380	
2691-41-0	HMX	2250	
98-95-3	Nitrobenzene	2000	
88-72-2	2-Nitrotoluene	2970	a
99-08-1	3-Nitrotoluene	2500	
99-99-0	4-Nitrotoluene	2500	p
121-82-4	RDX	1720	
479-45-8	Tetryl	1580	
99-35-4	1,3,5-Trinitrobenzene	1750	
118-96-7	2,4,6-Trinitrotoluene	2980	
78-11-5	PETN	5190	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
1,2-Dinitrobenzene	108	(59 - 113 )

Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: STL SW846 8321  
Explosives by LC/MS/MS

Sample WT/Vol: 2 / g      Date Received: 04/08/10  
Work Order: LXNJ91AG      Date Extracted: 04/09/10  
Dilution factor: 1      Date Analyzed: 04/14/10  
Moisture %: 17

QC Batch: 0099309

Client Sample Id: RE12-10-15444

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg    Q
55-63-0	Nitroglycerin	4330	
6629-29-4	2,4-diamino-6-nitrotoluene	1780	
59229-75-3	2,6-diamino-4-nitrotoluene	1850	
618-87-1	3,5-Dinitroaniline	2030	
78-30-8	Tris (o-cresyl) Phosphate	469	
3058-38-6	TATB	2560	
35572-78-2	2-Amino-4,6-dinitrotoluene	2630	
19406-51-0	4-Amino-2,6-dinitrotoluene	3090	a
99-65-0	1,3-Dinitrobenzene	2360	
121-14-2	2,4-Dinitrotoluene	1940	
606-20-2	2,6-Dinitrotoluene	2600	a
2691-41-0	HMX	2190	
98-95-3	Nitrobenzene	2370	
88-72-2	2-Nitrotoluene	3790	a
99-08-1	3-Nitrotoluene	3370	a
99-99-0	4-Nitrotoluene	3910	a
121-82-4	RDX	1890	
479-45-8	Tetryl	1460	
99-35-4	1,3,5-Trinitrobenzene	1750	
118-96-7	2,4,6-Trinitrotoluene	3000	
78-11-5	PETN	6230	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
1,2-Dinitrobenzene	109	(59    -    113    )

FORM I

# **LC/MS/MS ADDITIONAL FORMS**

## STL SW846 8321 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D080489

Extraction: XXA13A701

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	RE12-10-15444	118*	01
02	RE12-10-15443	111	00
03	RE12-10-15442	102	00
04	RE12-10-15448	104	00
05	RE12-10-15446	110	00
06	RE12-10-15445	107	00
07	RE12-10-15447	103	00
08	METHOD BLK. LXQ9M1AA	120*	01
09	LCS LXQ9M1AC	114	00
10	RE12-10-15444 D	108	00
11	RE12-10-15444 S	109	00

SURROGATES

SRG01 = 1,2-Dinitrobenzene

QC LIMITS

( 59-113)

# Column to be used to flag recovery values  
\* Values outside of required QC Limits  
D System monitoring Compound diluted out

FORM II

## STL SW846 8321 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: RE12-10-15444

Level: (low/med) LOW

Lot #: F0D080489

WO #: LXNJ91AG

BATCH: 0099309

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,3,5-Trinitrobenzene	2410	ND	1750	73	54 - 116	
1,3-Dinitrobenzene	2410	ND	2360	98	70 - 102	
Tetryl	2410	ND	1460	60	10 - 150	
Nitrobenzene	2410	ND	2370	98	46 - 117	
2,4,6-Trinitrotoluene	2410	ND	3000	124	66 - 127	
4-Amino-2,6-dinitrotoluen	2410	ND	3090	128*	62 - 111	a
2-Amino-4,6-dinitrotoluen	2410	ND	2630	109	22 - 135	
4-Nitrotoluene	2410	ND	3910	162*	52 - 108	a
3-Nitrotoluene	2410	ND	3370	140*	42 - 112	a
2,6-Dinitrotoluene	2410	ND	2600	108*	69 - 103	a
2,4-Dinitrotoluene	2410	ND	1940	80	58 - 114	
HMX	2410	ND	2190	91	56 - 116	
RDX	2410	ND	1890	78	59 - 98	
PETN	6030	ND	6230	103	26 - 144	
TATB	2410	ND	2560	106	10 - 150	
2-Nitrotoluene	2410	ND	3790	157*	57 - 113	a
Tris (o-cresyl) Phosphate	603	ND	469	78	25 - 150	
2,4-diamino-6-nitrotoluen	2410	ND	1780	74	40 - 113	
2,6-diamino-4-nitrotoluen	2410	ND	1850	77	22 - 135	
3,5-Dinitroaniline	2410	ND	2030	84	61 - 126	
Nitroglycerin	6030	ND	4330	72	54 - 109	

## NOTES (S) :

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 5 out of 21 outside limits

COMMENTS:

FORM III

## STL SW846 8321 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: RE12-10-15444

Level: (low/med) LOW

Lot #: F0D080489

WO #: LXNJ91AH

BATCH: 0099309

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
1,3,5-Trinitrobenzene	2410	1750	72	0.45	30	54 - 116	
1,3-Dinitrobenzene	2410	2300	95	2.5	30	70 - 102	
Tetryl	2410	1580	66	8.1	30	10 - 150	
Nitrobenzene	2410	2000	83	17	30	46 - 117	
2,4,6-Trinitrotoluene	2410	2980	124	0.66	30	66 - 127	
4-Amino-2,6-dinitrotoluen	2410	2480	103	22	30	62 - 111	
2-Amino-4,6-dinitrotoluen	2410	2340	97	12	30	22 - 135	
4-Nitrotoluene	2410	2500	104	44	30	52 - 108	p
3-Nitrotoluene	2410	2500	104	30	30	42 - 112	
2,6-Dinitrotoluene	2410	2380	99	8.7	30	69 - 103	
2,4-Dinitrotoluene	2410	1740	72	10	30	58 - 114	
HMX	2410	2250	93	2.4	30	56 - 116	
RDX	2410	1720	72	9.1	30	59 - 98	
PETN	6030	5190	86	18	30	26 - 144	
TATB	2410	1490	62	53	30	10 - 150	p
2-Nitrotoluene	2410	2970	123*	24	30	57 - 113	a
Tris (o-cresyl) Phosphate	603	458	76	2.4	30	25 - 150	
2,4-diamino-6-nitrotoluen	2410	1670	69	6.2	30	40 - 113	
2,6-diamino-4-nitrotoluen	2410	1750	73	5.1	30	22 - 135	
3,5-Dinitroaniline	2410	1910	79	6.1	30	61 - 126	
Nitroglycerin	6030	4460	74	2.9	30	54 - 109	

## NOTES (S) :

Results or reporting limits flagged with a \*\* have not been corrected for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 2 out of 21 outside limitsSpike Recovery: 1 out of 21 outside limits

COMMENTS:

## STL SW846 8321 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D090000

WO #: LXQ9M1AC

BATCH: 0099309

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,3,5-Trinitrobenzene	2000	1550	78	61- 118	
1,3-Dinitrobenzene	2000	1790	89	71- 105	
Tetryl	2000	1800	90	20- 150	
Nitrobenzene	2000	2180	109	47- 121	
2,4,6-Trinitrotoluene	2000	3060	153*	69- 127	a
4-Amino-2,6-dinitrotoluen	2000	2550	127*	66- 105	a
2-Amino-4,6-dinitrotoluen	2000	2560	128*	66- 113	a
2-Nitrotoluene	2000	2470	123*	55- 119	a
4-Nitrotoluene	2000	2350	118*	47- 116	a
3-Nitrotoluene	2000	2220	111	44- 111	
2,6-Dinitrotoluene	2000	2020	101	58- 115	
2,4-Dinitrotoluene	2000	1710	86	58- 115	
HMX	2000	2070	103	54- 121	
RDX	2000	1610	81	61- 103	
PETN	5000	5670	113	20- 150	
TATB	2000	1280	64	20- 150	
Tris (o-cresyl) Phosphate	500	399	80	36- 143	
2,4-diamino-6-nitrotoluen	2000	1640	82	42- 134	
2,6-diamino-4-nitrotoluen	2000	1700	85	36- 134	
3,5-Dinitroaniline	2000	2040	102	68- 121	
Nitroglycerin	5000	4640	93	48- 118	

## NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

\* Values outside of QC limits

Spike Recovery:   5   out of  21  outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

STL SW846 8321 METHOD BLANK SUMMARY

LXQ9M1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number: F0D080489

Lab File ID: R04141004

Lot Number: F0D080489

Date Analyzed: 04/14/10

Time Analyzed: 21:20

Matrix: SOLID

Date Extracted: 04/09/10

GC Column: ALLURE C18 ID: 4.60

Extraction Method:

Instrument ID: LCMSMSR

Level: (low/med)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	RE12-10-15444	LXNJ91AD	R04141006	04/14/10	22:40
02	RE12-10-15444	LXNJ91AG S	R04141007	04/14/10	23:20
03	RE12-10-15444	LXNJ91AH D	R04141008	04/15/10	00:00
04	RE12-10-15443	LXNKC1AD	R04141009	04/15/10	00:40
05	RE12-10-15442	LXNKE1AD	R04141010	04/15/10	01:21
06	RE12-10-15448	LXNKG1AD	R04141011	04/15/10	02:01
07	RE12-10-15446	LXNKH1AD	R04141012	04/15/10	02:41
08	RE12-10-15445	LXNKJ1AD	R04141013	04/15/10	03:21
09	RE12-10-15447	LXNKL1AD	R04141015	04/15/10	04:41
10	CHECK SAMPLE	LXQ9M1AC C	R04141005	04/14/10	22:00
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV



**LC/MS/MS STANDARDS DATA**

**INITIAL CALIBRATION DATA**

**CALIBRATION VERIFICATION DATA**

**Quantify Calibration Report MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_PPB\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

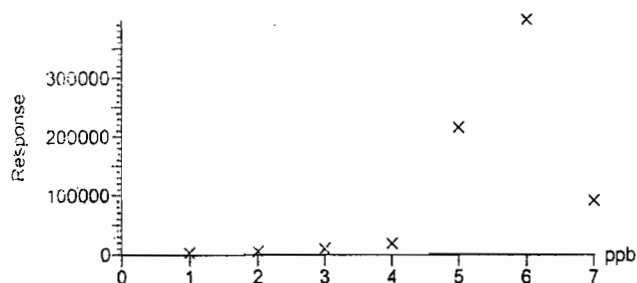
Compound name: 2,6-Diamino-4-nitrotoluene

Response Factor: 440.705

RRF SD: 20.1898, % Relative SD: 4.58124

Response type: External Std, Area

Curve type: RF



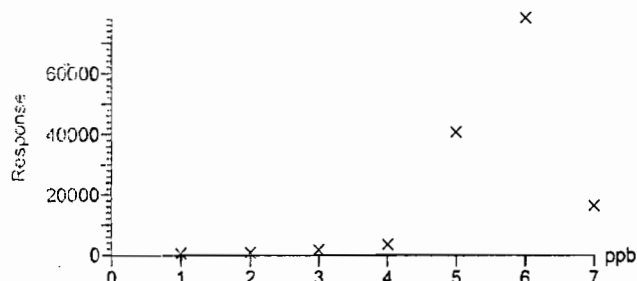
Compound name: 2,4-Diamino-6-nitrotoluene

Response Factor: 79.0944

RRF SD: 5.21, % Relative SD: 6.58706

Response type: External Std, Area

Curve type: RF

R100331

8321 Full ICAL

5-1000

Wt

4/1/10

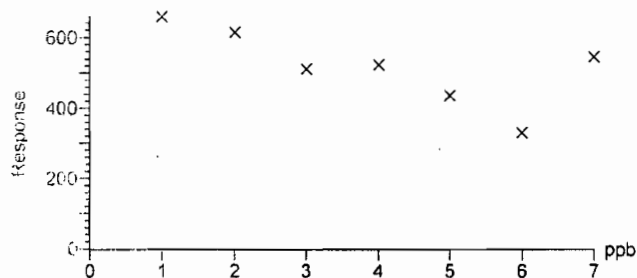
Compound name: HMX 13C4

Response Factor: 1.034

RRF SD: 0.217908, % Relative SD: 21.0742

Response type: External Std, Area

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

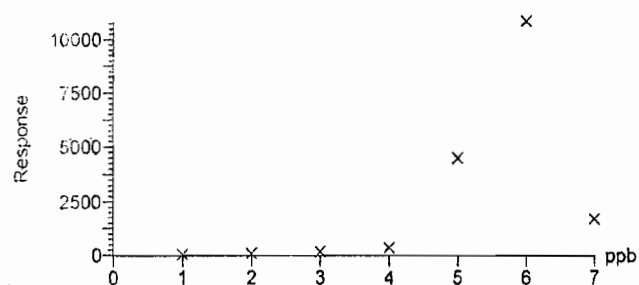
Compound name: HMX

Response Factor: 8.76423

RRF SD: 0.9586, % Relative SD: 10.9376

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



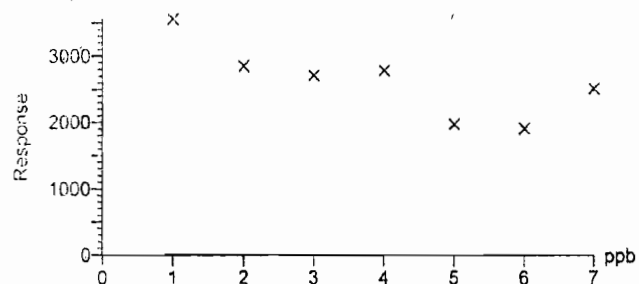
Compound name: RDX 13C3

Response Factor: 10.4306

RRF SD: 2.26708, % Relative SD: 21.7348

Response type: External Std, Area

Curve type: RF



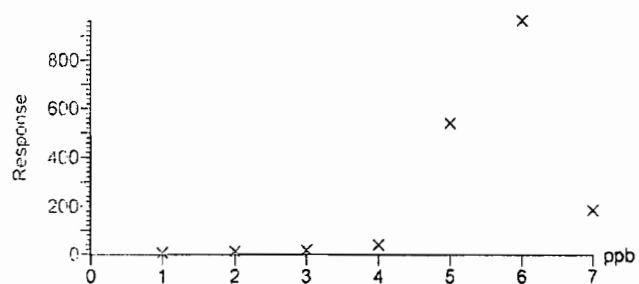
Compound name: RDX

Response Factor: 1.00223

RRF SD: 0.126317, % Relative SD: 12.6036

Response type: Internal Std ( Ref 5 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



**Quantify Calibration Report MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

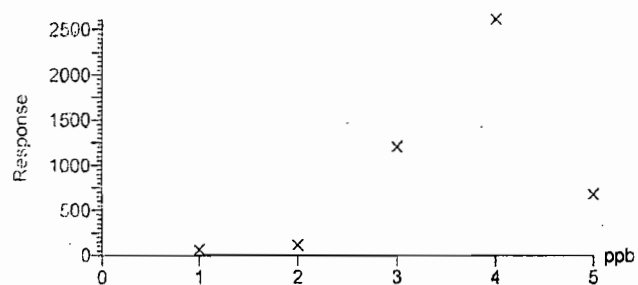
Compound name: TATB

Response Factor: 2.82353

RRF SD: 0.372675, % Relative SD: 13.1989

Response type: External Std, Area

Curve type: RF



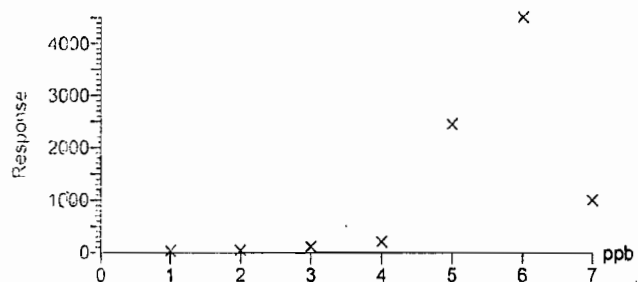
Compound name: 1,2-Dinitrobenzene

Response Factor: 4.97381

RRF SD: 0.383397, % Relative SD: 7.70832

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



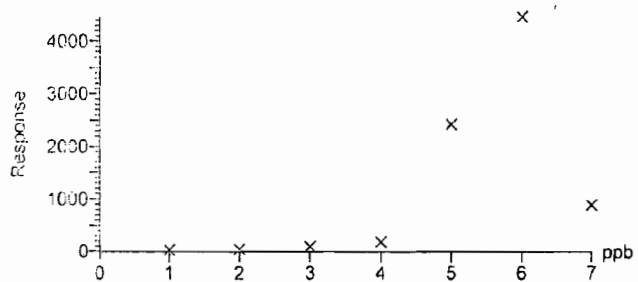
Compound name: 1,3,5-Trinitrobenzene

Response Factor: 4.43693

RRF SD: 0.228837, % Relative SD: 5.15755

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

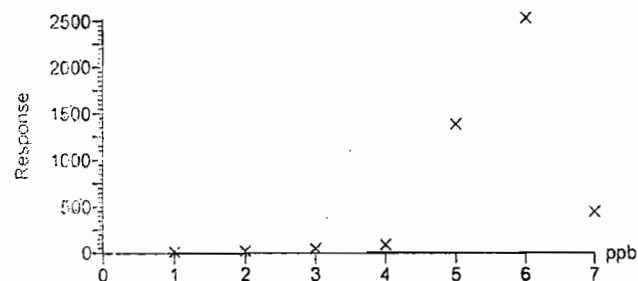
Compound name: Tetryl

Response Factor: 2.23933

RRF SD: 0.294074, % Relative SD: 13.1322

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



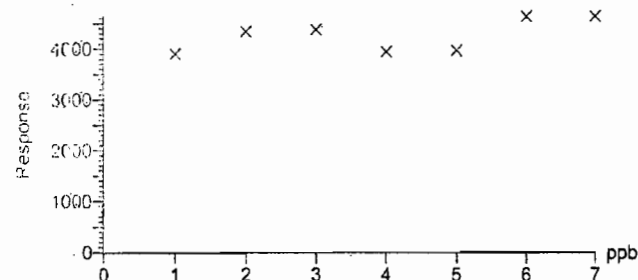
Compound name: 1,3-Dinitrobenzene D4

Response Factor: 85.0763

RRF SD: 6.46021, % Relative SD: 7.59343

Response type: External Std, Area

Curve type: RF



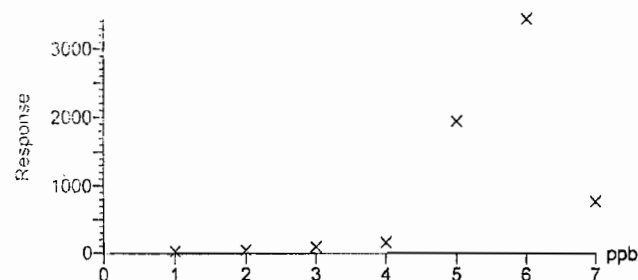
Compound name: 3,5-Dinitroaniline

Response Factor: 3.89484

RRF SD: 0.251327, % Relative SD: 6.45283

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

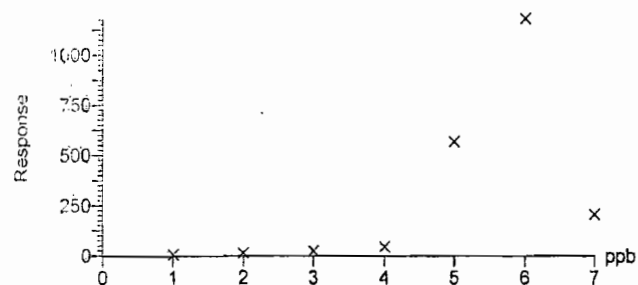
Compound name: 1,3-Dinitrobenzene

Response Factor: 1.07372

RRF SD: 0.0872802, % Relative SD: 8.1288

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

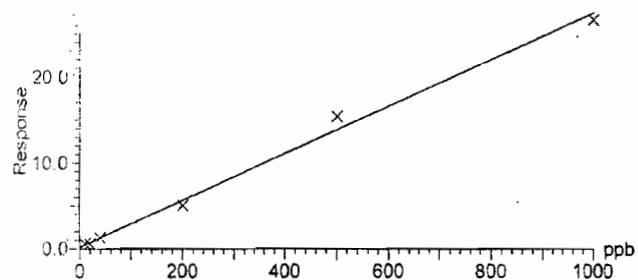


Compound name: Nitrobenzene

Correlation coefficient:  $r = 0.995668$ ,  $r^2 = 0.991356$ Calibration curve:  $0.0272735 * x + 0.169239$ 

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



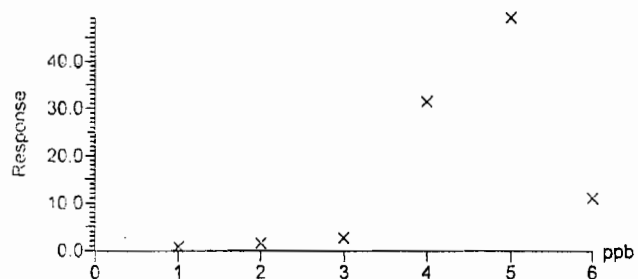
Compound name: Nitroglycerin

Response Factor: 0.0627155

RRF SD: 0.00942062, % Relative SD: 15.0212

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

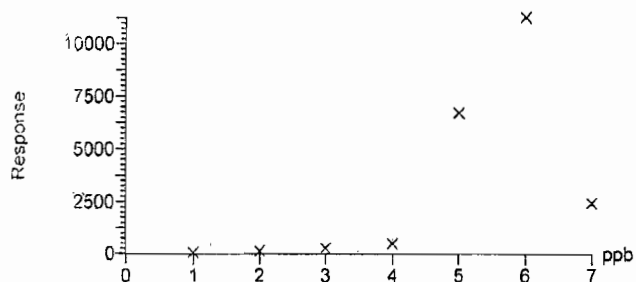
Compound name: 2,4,6-Trinitrotoluene

Response Factor: 11.9773

RRF SD: 0.779923, % Relative SD: 6.51169

Response type: Internal Std ( Ref 11 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



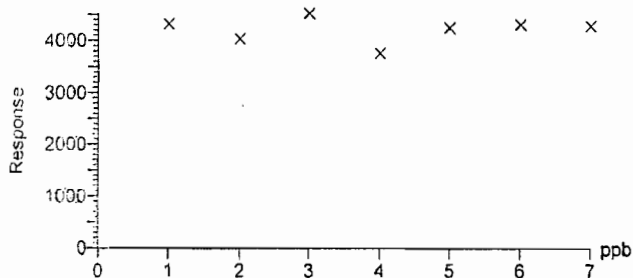
Compound name: 2,4-Dinitrotoluene D3

Response Factor: 168.155

RRF SD: 9.79939, % Relative SD: 5.82759

Response type: External Std, Area

Curve type: RF



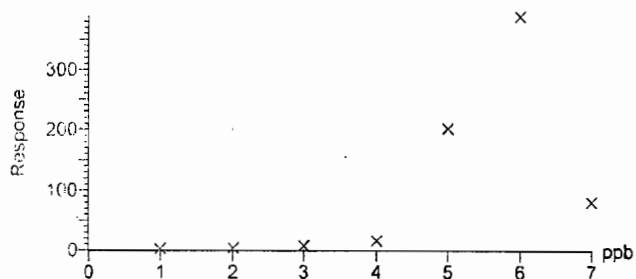
Compound name: 2,4-Dinitrotoluene

Response Factor: 0.393044

RRF SD: 0.024875, % Relative SD: 6.32882

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

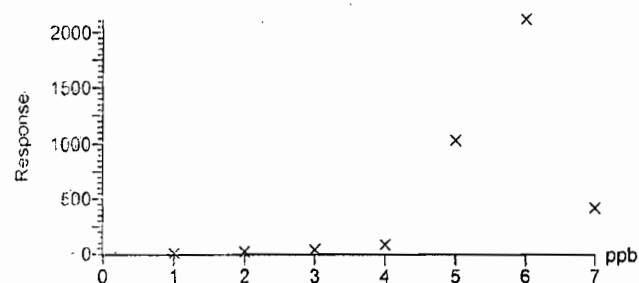
Compound name: 2,6-Dinitrotoluene

Response Factor: 2.04289

RRF SD: 0.117332, % Relative SD: 5.7434

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



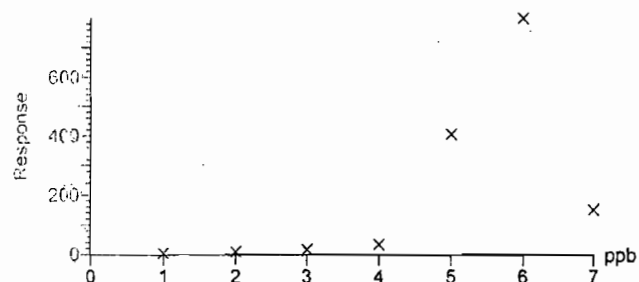
Compound name: 2-Amino-4,6-dinitrotoluene

Response Factor: 0.790675

RRF SD: 0.061516, % Relative SD: 7.78019

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



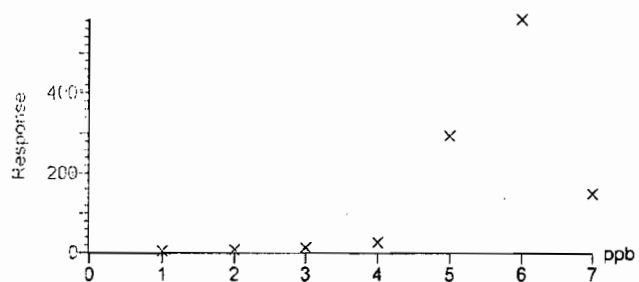
Compound name: 4-Amino-2,6-dinitrotoluene

Response Factor: 0.638146

RRF SD: 0.0532364, % Relative SD: 8.34235

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF





**Quantify Calibration Report MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

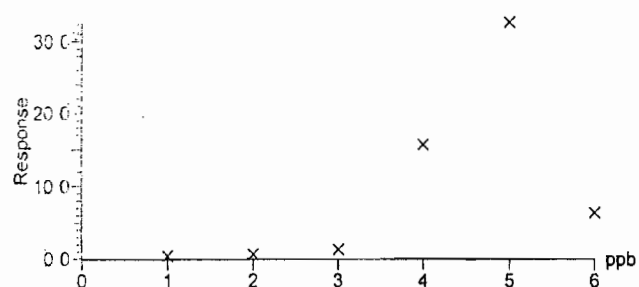
Compound name: 2-Nitrotoluene

Response Factor: 0.0323575

RRF SD: 0.00194704, % Relative SD: 6.01727

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

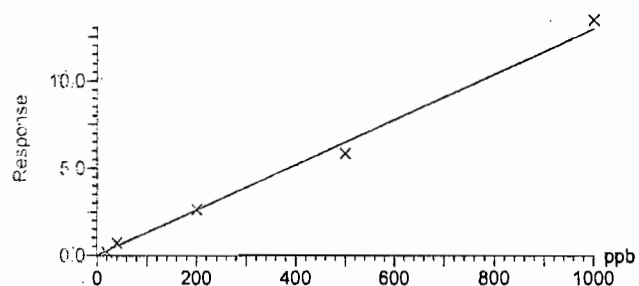


Compound name: 4-Nitrotoluene

Correlation coefficient:  $r = 0.995847$ ,  $r^2 = 0.991711$ Calibration curve:  $0.0129067 * x + 0.00252987$ 

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



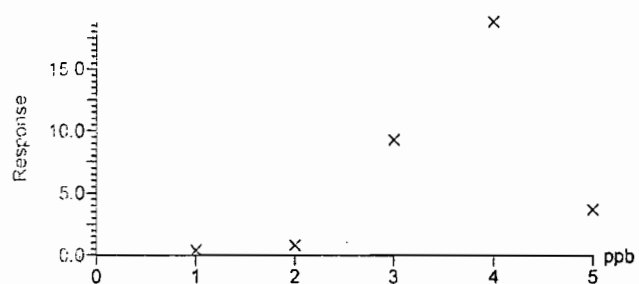
Compound name: 3-Nitrotoluene

Response Factor: 0.018816

RRF SD: 0.000366677, % Relative SD: 1.94876

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



## Quantify Calibration Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

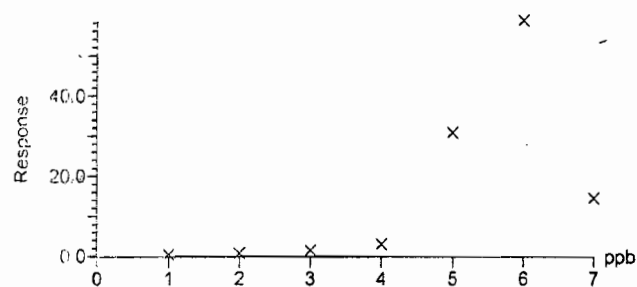
Compound name: PETN

Response Factor: 0.0708422

RRF SD: 0.00798649, % Relative SD: 11.2736

Response type: Internal Std ( Ref 17 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

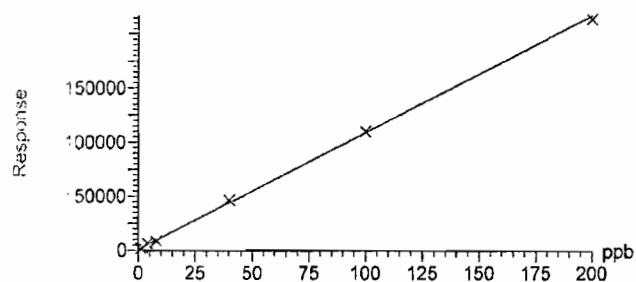


Compound name: Tri-o-cresyl phosphate

Correlation coefficient:  $r = 0.998972$ ,  $r^2 = 0.997945$ Calibration curve:  $1080.97 * x + 647.647$ 

Response type: External Std, Area

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None



LOT

#

Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

#

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Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_PPB\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICA-1 5.0ppb

User: WH

Vial: 1:2

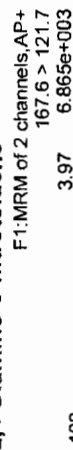
Instrument: LCMSMSR

Task:

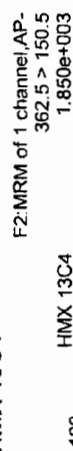
2,6-Diamino-4-nitrotoluene



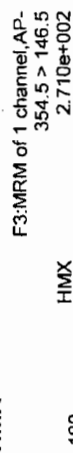
2,4-Diamino-6-nitrotoluene



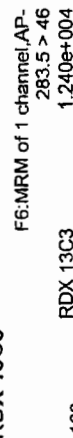
HMX 13C4



HMX



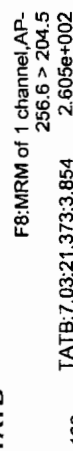
RDX 13C3



RDX



TATB



1,2-Dinitrobenzene



485

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICA-1 5.0ppb

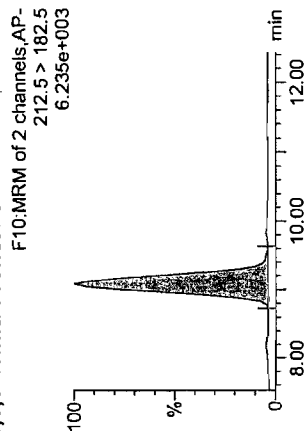
User: WH

Vial: 1:2

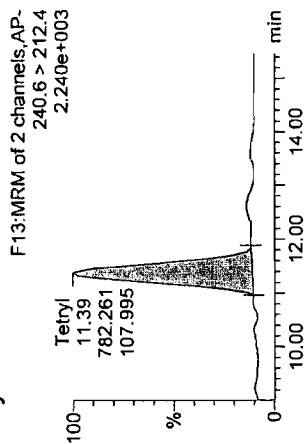
Instrument: LCMSMSR

Task:

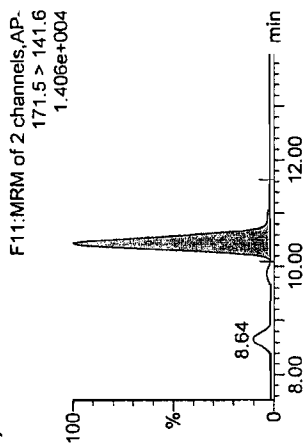
## 1,3,5-Trinitrobenzene



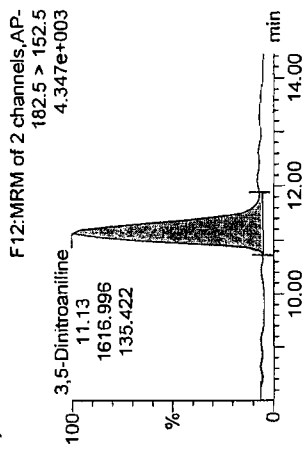
## Tetryl



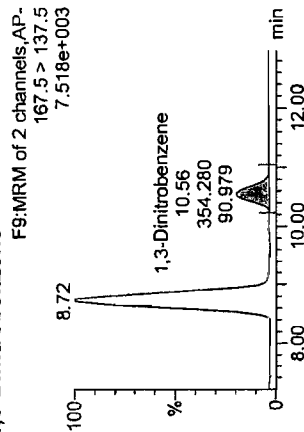
## 1,3-Dinitrobenzene D4



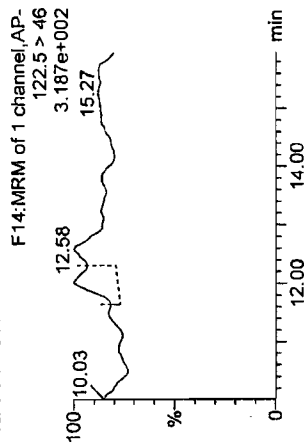
## 3,5-Dinitroaniline



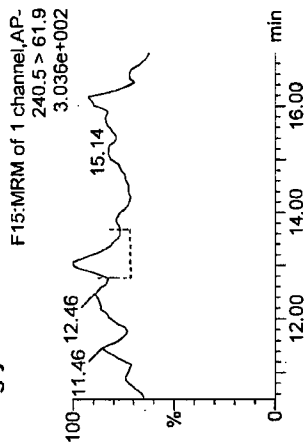
## 1,3-Dinitrobenzene



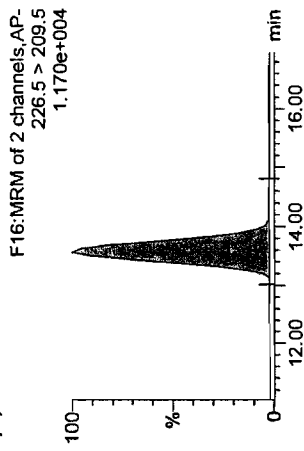
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



486

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROData\SetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICA-1 5.0ppb

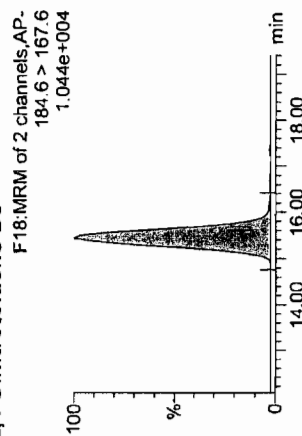
User: WH

Vial: 1:2

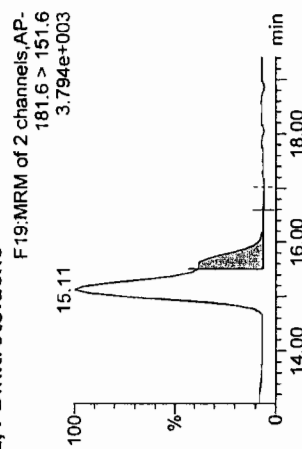
Instrument: LCMSMSR

Task:

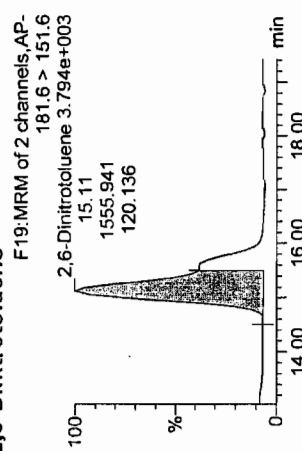
## 2,4-Dinitrotoluene D3



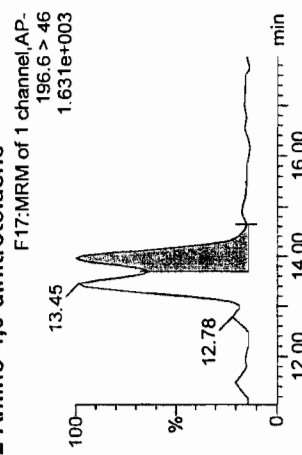
## 2,4-Dinitrotoluene



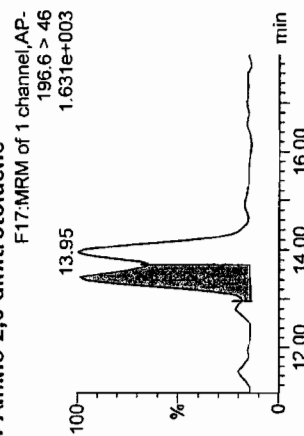
## 2,6-Dinitrotoluene



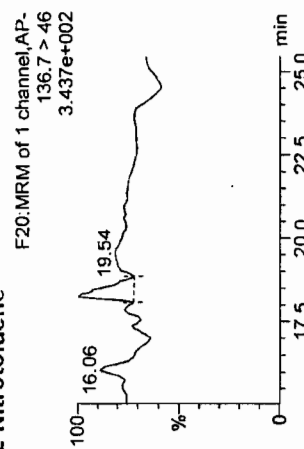
## 2-Amino-4,6-dinitrotoluene



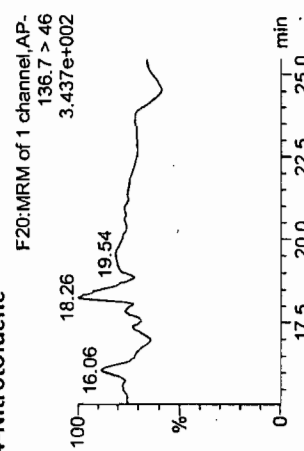
## 4-Amino-2,6-dinitrotoluene



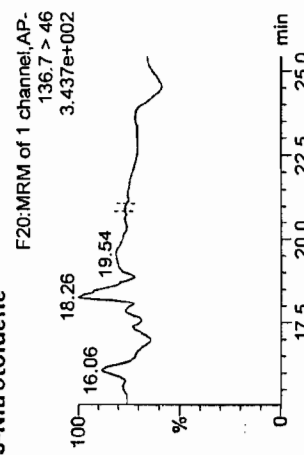
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



487

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report

MassLynx 4.1

Test America, INC St Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICA-1 5.0ppb

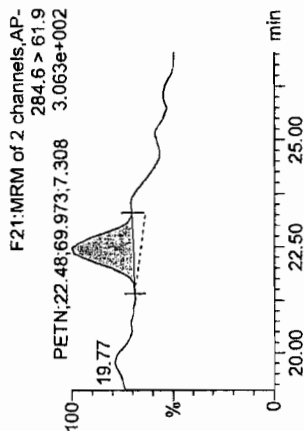
User: WH

Vial: 1:2

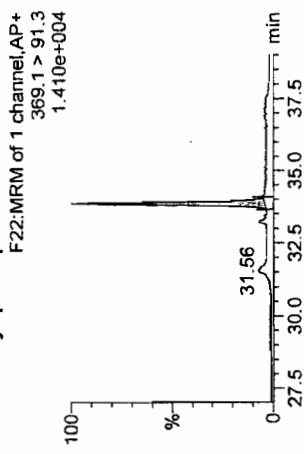
Instrument: LCMSMSR

Task:

PETN



Tri-o-cresyl phosphate



488

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL18321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

# 89

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICA-1 5.0ppb

User: WH

Vial: 1:2

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete Integration  
 3. Wrong Peak  
 4. Other 5/4 < 4

with  
 4/1/10

#	Name	Sample Text	ID	Std	Conc	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	3.966	2271.309	2271.309	2271.309	2271.309	bd	5.1538	103.076
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4.485	347.635	347.635	347.635	347.635	db	4.3952	87.904
3	3... HMX 13C4	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4.383	657.916	657.916	657.916	657.916	MM	636.2801	127.256
4	4... HMX	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4.397	52.839	52.839	52.839	52.839	db	4.5818	91.637
5	5... RDX 13C3	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	6.925	3558.221	3558.221	3558.221	3558.221	bb	341.1319	136.453
6	6... RDX	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	6.928	76.671	76.671	76.671	76.671	MM	5.3749	107.498
7	7... TATB	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	8.716	2037.497	2037.497	2037.497	2037.497	MM-	5.2579	105.158
8	8... 1,2-Dinitrobenzene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	9.085	1642.232	1642.232	1642.232	1642.232	dd	4.7507	95.014
9	9... 1,3,5-Trinitrobenzene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	11.386	782.261	782.261	782.261	782.261	bb	4.4837	89.674
10	1... Tetra	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	10.448	3895.517	3895.517	3895.517	3895.517	db	45.7885	91.577
11	1... 1,3-Dinitrobenzene D4	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	11.132	1616.996	1616.996	1616.996	1616.996	dd	5.3287	106.575
12	1... 3,5-Dinitroaniline	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	10.584	354.280	354.280	354.280	354.280	db	4.2351	84.702
13	1... 1,3-Dinitrobenzene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	3895.517	3895.517	3895.517	3895.517	3895.517	MM-I		
14	1... Nitrobenzene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	3895.517	3895.517	3895.517	3895.517	3895.517	MM-I		
15	1... Nitroglycerin	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	3895.517	3895.517	3895.517	3895.517	3895.517	MM-I		
16	1... 2,4,6-Trinitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	13.573	4583.034	4583.034	4583.034	4583.034	db	4.9113	98.227
17	1... 2,4-Dinitrotoluene D3	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	15.433	4317.987	4317.987	4317.987	4317.987	bd	25.6786	102.714
18	1... 2,4-Dinitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	15.505	378.588	378.588	378.588	378.588	MM	5.5768	111.536
19	1... 2,6-Dinitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	15.114	1555.941	1555.941	1555.941	1555.941	bd	4.4097	88.193
20	2... 2-Amino-4,6-dinitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	13.950	587.767	587.767	587.767	587.767	dd	4.3039	86.079
21	2... 4-Amino-2,6-dinitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	13.451	569.468	569.468	569.468	569.468	dd	5.1666	103.333
22	2... 2-Nitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4317.987	4317.987	4317.987	4317.987	4317.987	MM-		
23	2... 4-Nitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4317.987	4317.987	4317.987	4317.987	4317.987	MM-		
24	2... 3-Nitrotoluene	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	4317.987	4317.987	4317.987	4317.987	4317.987	MM-		
25	2... PETN	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	22.477	69.973	69.973	69.973	69.973	MM	5.7187	114.374
26	2... Tri-o-cresyl phosphate	8321 ICA-1 5.0ppb	LCMS73-76/10	5.000	33.867	1673.354	1673.354	1673.354	1673.354	bb	0.9489	94.887

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311009

Date: 31-Mar-2010

Time: 12:55:52

ID: LCMS73-76/10

Description: 8321 ICAI-1 5.0ppb

User: WH

Vial: 1:2

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	SN	Height/Area	Acq. Date	Acq. Time	Initial Wt. Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	273.062	2.899	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
2	167.6 > 121.7	35.377	2.454	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
3	362.5 > 150.5	93.781	2.564	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
4	354.5 > 146.5	4.043	2.441	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
5	283.5 > 46	946.165	3.423	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
6	280.5 > 46	17.643	3.600	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
7	256.6 > 204.5			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
8	167.5 > 137.5	543.121	3.580	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
9	212.5 > 182.5	223.660	3.661	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
10	240.6 > 212.4	107.995	2.550	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
11	171.5 > 141.6	509.709	3.544	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
12	182.5 > 152.5	135.422	2.550	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
13	167.5 > 137.5	90.979	3.449	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
14	122.5 > 46			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
15	240.5 > 61.9			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
16	226.5 > 209.5	1016.9...	2.497	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
17	184.6 > 167.6	240.845	2.360	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
18	181.6 > 151.6	40.969	3.201	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
19	181.6 > 151.6	120.136	2.284	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
20	196.6 > 46	89.006	2.389	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
21	196.6 > 46	86.977	2.409	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
22	136.7 > 46			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
23	136.7 > 46			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
24	136.7 > 46			31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
25	284.6 > 61.9	7.308	1.329	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000
26	369.1 > 91.3	201.729	8.064	31-Mar-10	12:55:52	1.000	1.000	1.000	1.000	1.000

Method 8321, Explosives By LCMSMS

1145



LOT # 89

# Quantify Sample Report

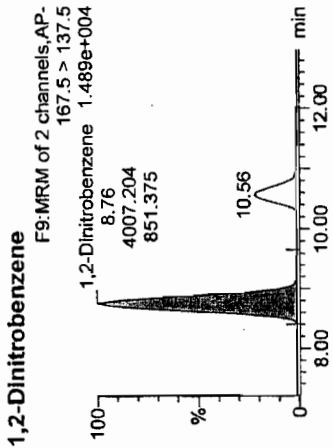
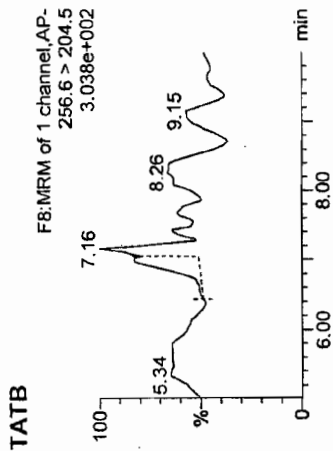
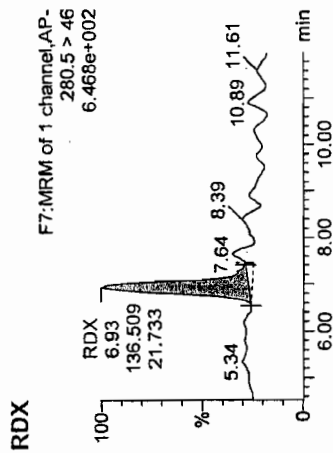
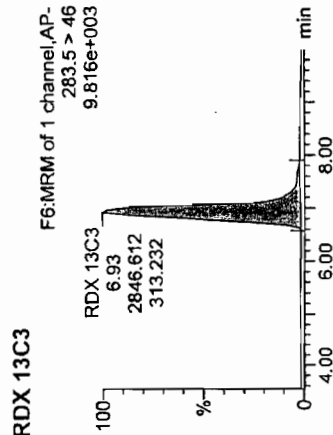
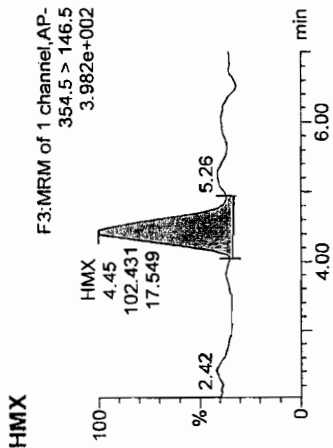
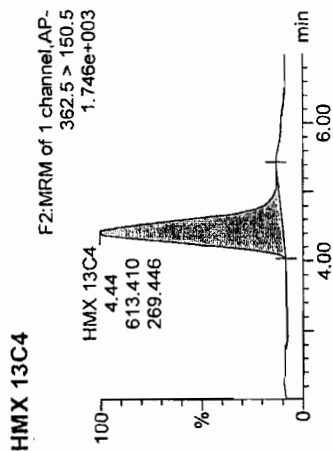
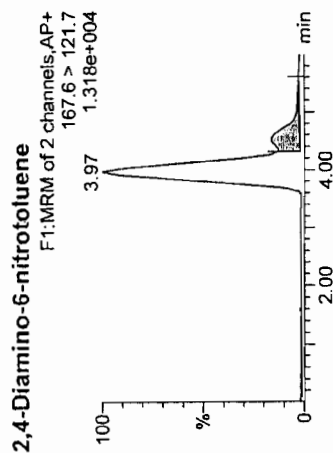
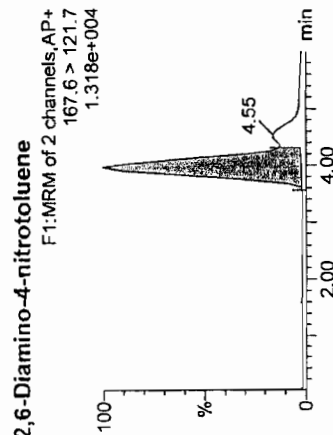
TestAmerica, INC. St. Louis  
Masslynx 4.1

Dataset: C:\Masslynx\Explosives\PROData\Set\Exp\033110\_LANL\8321\_ICAL\_033110.qld

Test Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311010  
Date: 31-Mar-2010  
Time: 13:36:01  
ID: LCMS73-76/10  
Description: 8321 ICA-2 10.0ppb  
User: WH  
Vial: 1:3  
Instrument: LCMSMSR  
Task:



491 O 1145

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis,

Dataset: C:\MassLynx\Explosives.PRO\data\SetSaved\Exp\033110\_LANL\8321\_ICAL\_033110.qld

Acquired: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311010

Date: 31-Mar-2010

Time: 13:36:01

ID: LCMS73-76/10

Description: 8321 ICA-2 10.0ppb

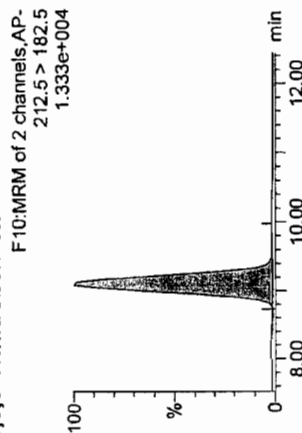
User: WH

Vial: 1:3

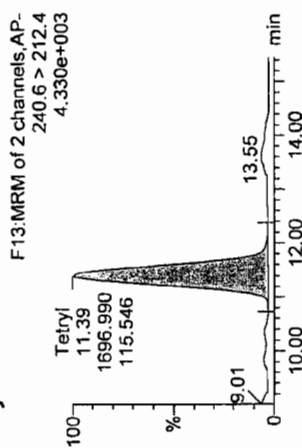
Instrument: LCMSMSR

Task:

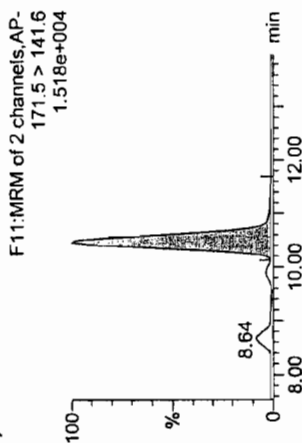
## 1,3,5-Trinitrobenzene



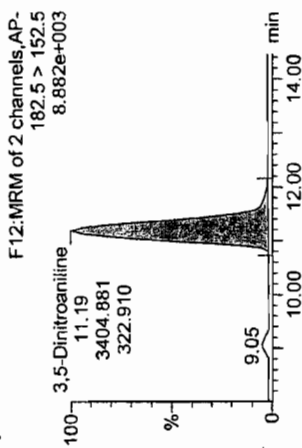
## Tetryl



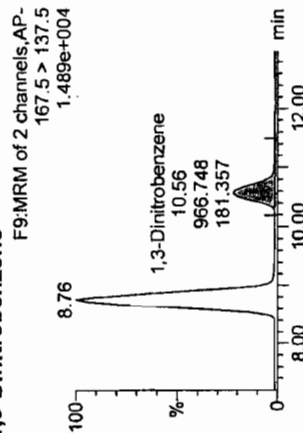
## 1,3-Dinitrobenzene D4



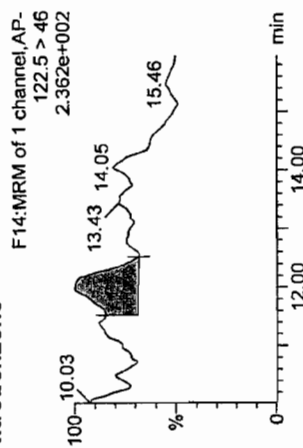
## 3,5-Dinitroaniline



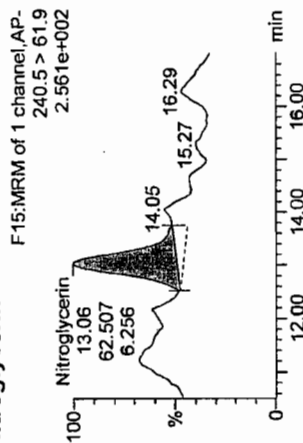
## 1,3-Dinitrobenzene



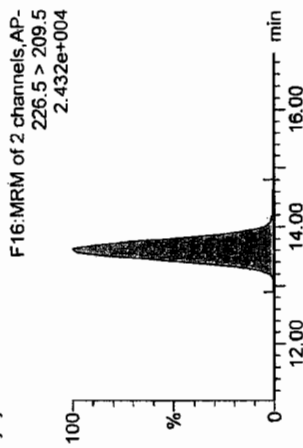
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



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Method 8321, Explosives By LCMSMS

1145

LOT #

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311010

Date: 31-Mar-2010

Time: 13:36:01

ID: LCMS73-76/10

Description: 8321 ICAI-2 10.0ppb

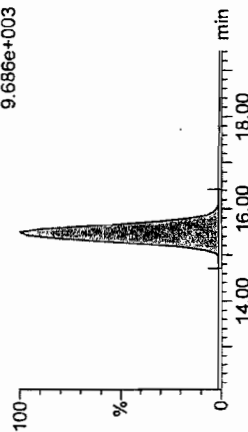
User: WH

Vial: 1:3

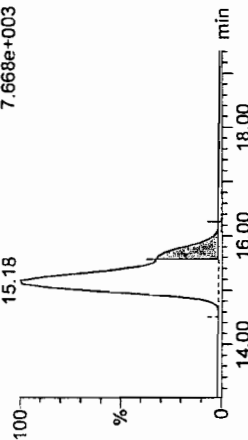
Instrument: LCMSMSR

Task:

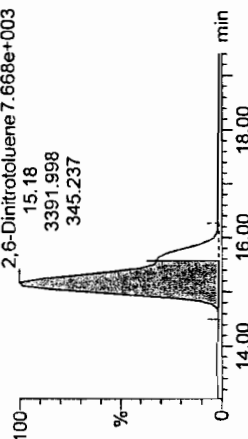
## 2,4-Dinitrotoluene D3

F18:MRM of 2 channels,AP-  
184.6 > 167.6  
9.686e+003

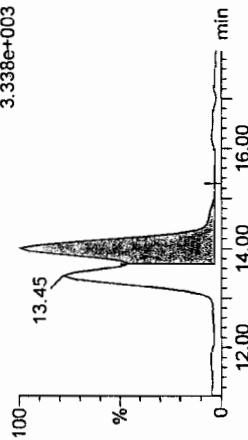
## 2,4-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
7.668e+003

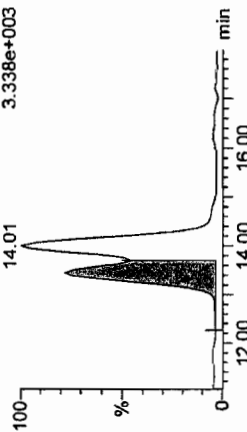
## 2,6-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
7.668e+003

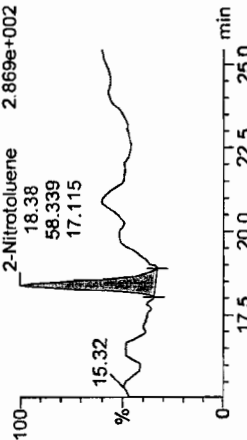
## 2-Amino-4,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
3.338e+003

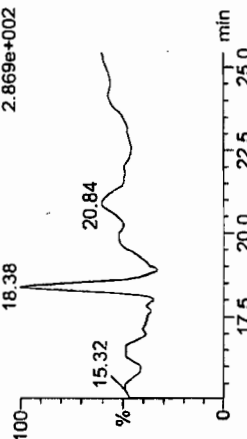
## 4-Amino-2,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
3.338e+003

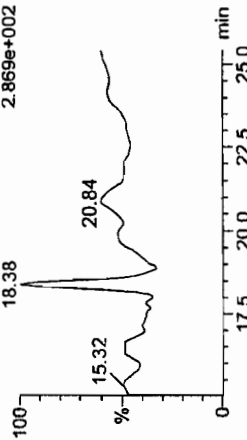
## 2-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
2.869e+002

## 4-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
2.869e+002

## 3-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
2.869e+002

493 0 1145

Method 8321, Explosives By LCMSMS

LOT #

MassLynx 4.1

Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSet\SavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311010

Date: 31-Mar-2010

Time: 13:36:01

ID: LCMS73-76/10

Description: 8321 ICA-2 10.0ppb

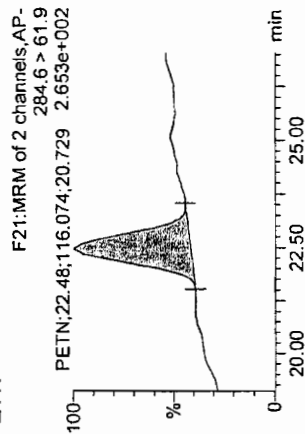
User: WH

Vial: 1:3

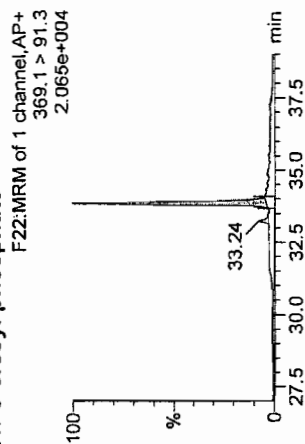
Instrument: LCMSMSR

Task:

PETN



Tri-o-cresyl phosphate



494 0 1145

Method 8321, Explosives By LCMSMS

LOT

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SaveExp\R033110\_LANL\8321\_ICAL\_033110.qld

List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311010

Date: 31-Mar-2010

Time: 13:36:01

ID: LCMS73-76/10

Description: 8321 ICA-2 10.0ppb

User: WH

Vial: 1:3

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 ② Incomplete Integration  
 3. Wrong Peak  
 4. Other

W#  
4/1/10

#	Name	Sample Text	ID	Std. Conc.	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1...	2,6-Diamino-4-nitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	3.966	4432.104	4432.104	4432.104	bd	10.0569	100.569
2...	2,4-Diamino-6-nitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	4.546	799.649	799.649	799.649	db	10.1101	101.101
3...	HMX 13C4	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	4.441	613.410	613.410	613.410	bb	593.2377	118.648
4...	HMX	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	4.455	102.431	613.410	83.493	dd	9.5266	95.266
5...	RDX 13C3	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	6.925	2846.612	2846.612	2846.612	bb	272.9089	109.164
6...	RDX	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	6.929	136.509	2846.612	11.989	MM	11.9621	119.621
7...	TATB	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000					MM-		
8...	1,2-Dinitrobenzene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	8.761	4007.204	4343.759	46.126	bb	9.2738	92.738
9...	1,3,5-Trinitrobenzene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	9.085	3581.036	4343.759	41.220	bb	9.2903	92.903
1...	Tetryl	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	11.387	1696.990	4343.759	19.534	bb	8.7230	87.230
1...	1,3-Dinitrobenzene D4	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	10.448	4343.759	4343.759	39.193	db	51.0572	102.114
1...	3,5-Dinitroaniline	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	11.195	3404.881	4343.759	39.193	bb	10.0628	100.628
1...	1,3-Dinitrobenzene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	10.564	966.748	4343.759	11.128	dd	10.3640	103.640
1...	Nitrobenzene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	11.958	48.198	4343.759	0.555	db	14.1367	141.367
1...	Nitroglycerin	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	13.061	62.507	4343.759	0.720	MM	11.4725	114.725
1...	2,4,6-Trinitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	13.636	9778.320	4343.759	112.556	bb	9.3975	93.975
1...	2,4-Dinitrotoluene D3	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	15.498	4027.466	4027.466	4027.466	dd	23.9509	95.804
1...	2,4-Dinitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	15.567	582.536	4027.466	3.616	MM	9.2000	92.000
1...	2,6-Dinitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	15.180	3391.998	4027.466	21.055	MM	10.3067	103.067
2...	2-Amino-4,6-dinitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	14.012	1398.879	4027.466	8.683	db	10.9822	109.822
2...	4-Amino-2,6-dinitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	13.451	1032.910	4027.466	6.412	bd	10.0473	100.473
2...	2-Nitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	18.382	58.339	4027.466	0.362	bb	11.1916	111.916
2...	4-Nitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000			4027.466				
2...	3-Nitrotoluene	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000			4027.466				
2...	PETN	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	22.477	116.074	4027.466	0.721	db	10.1707	101.707
2...	Tri-o-cresyl phosphate	8321 ICA-2 10.0ppb	LCMS73-76/10	10.000	33.860	2372.554	2372.554	2372.554	bb	1.5957	79.785

Method 8321, Explosives By LCMSMS

1145

LOT

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Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Test Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311010

Date: 31-Mar-2010

Time: 13:36:01

ID: LCMS73-76/10

Description: 8321 ICA-2 10.0ppb

User: WH

Vial: 1:3

Instrument: LCMSMSR

Task:

Trace	Sec.Trace	S/N	Height/Area	Acq.Date	Acq.Time	Initial WL Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	474.909	2.905	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	67.433	2.286	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	269.446	2.576	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	17.549	2.597	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
5	283.5 > 46	313.232	3.388	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
6	280.5 > 46	21.733	3.458	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
7	256.6 > 204.5			31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	851.375	3.666	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	589.520	3.673	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	115.546	2.479	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	560.144	3.463	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	322.910	2.558	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	181.357	3.237	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
14	122.5 > 46	4.145	1.535	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	6.256	2.080	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	1068.7...	2.472	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	393.804	2.375	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	104.700	3.931	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	345.237	2.226	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
20	196.6 > 46	51.353	2.308	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
21	196.6 > 46	39.695	2.416	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
22	136.7 > 46	17.115	3.240	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
23	136.7 > 46			31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
24	136.7 > 46			31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	20.729	1.335	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	326.029	8.356	31-Mar-10	13:36:01	1.000	1.000	1.000	1.000	

Method 8321, Explosives By LCMSMS

1145

LOT # 89

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

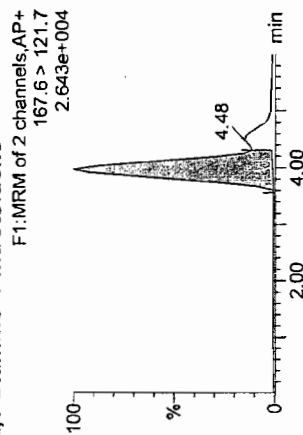
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Post Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

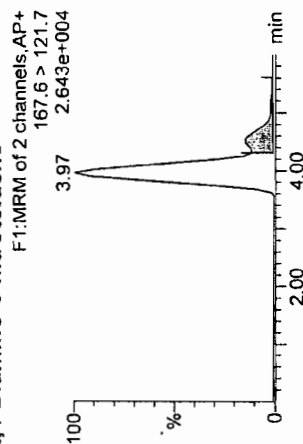
Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311011  
 Date: 31-Mar-2010  
 Time: 14:16:09  
 ID: LCMS73-76/10  
 Description: 8321 ICA-3 20.0ppb  
 User: WH  
 Vial: 1:4  
 Instrument: LCMSMSR  
 Task:

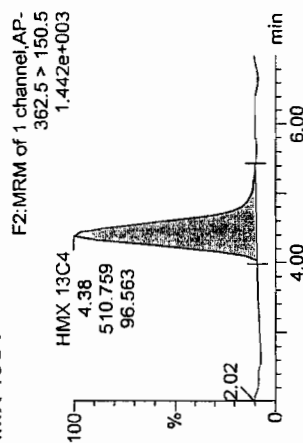
## 2,6-Diamino-4-nitrotoluene



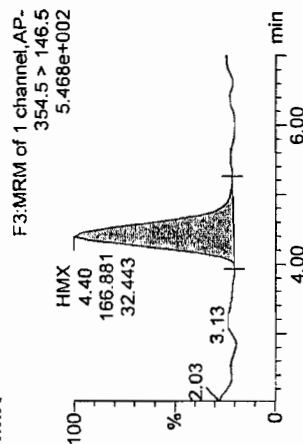
## 2,4-Diamino-6-nitrotoluene



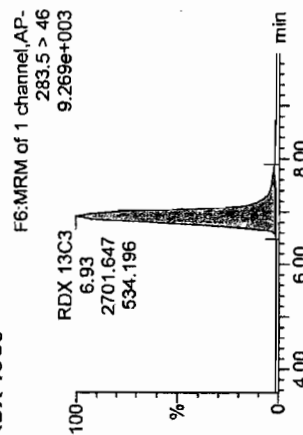
## HMX 13C4



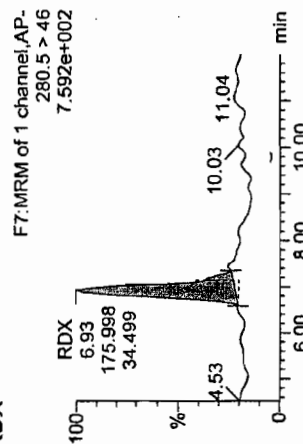
## HMX



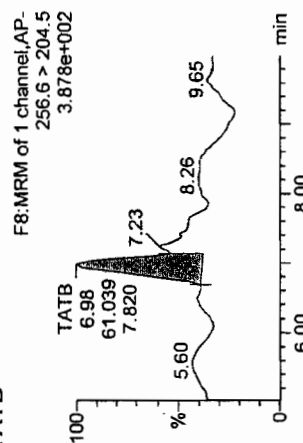
## RDX 13C3



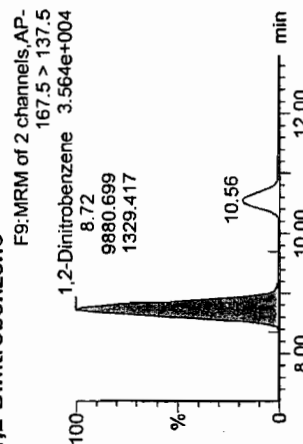
## RDX



## TATB



## 1,2-Dinitrobenzene



497 0 1145

Method 8321, Explosives By LCMSMS

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRONData\SetSaved\ExpR033110\_LANL18321\_ICAL\_033110.qld

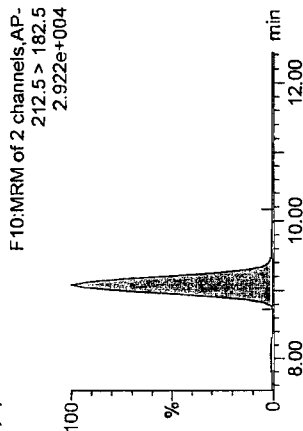
Acquired: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

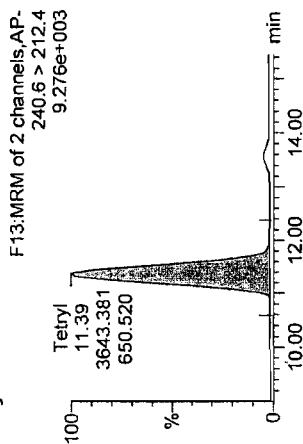
89

Name: R03311011  
 Date: 31-Mar-2010  
 Time: 14:16:09  
 ID: LCMS73-76/10  
 Description: 8321 ICA-3 20.0ppb  
 User: WH  
 Vial: 1:4  
 Instrument: LCMSMSR  
 Task:

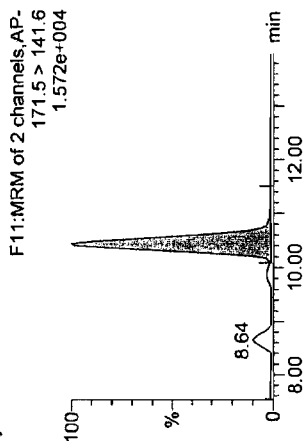
### 1,3,5-Trinitrobenzene



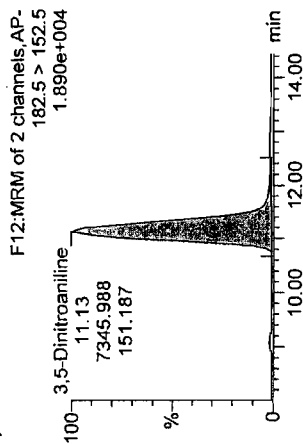
### Tetryl



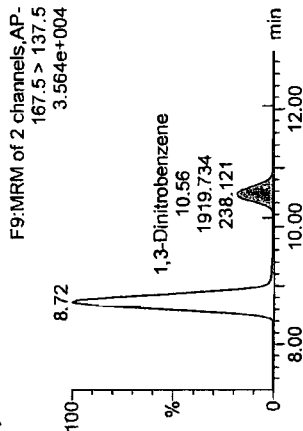
### 1,3-Dinitrobenzene D4



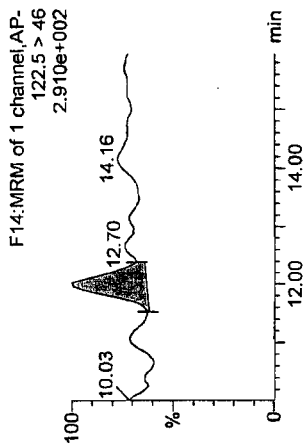
### 3,5-Dinitroaniline



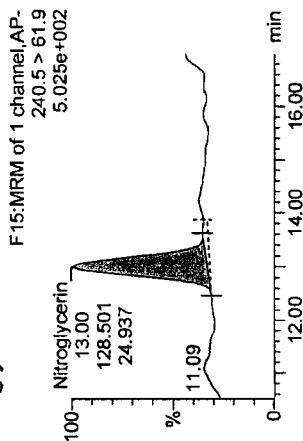
### 1,3-Dinitrobenzene



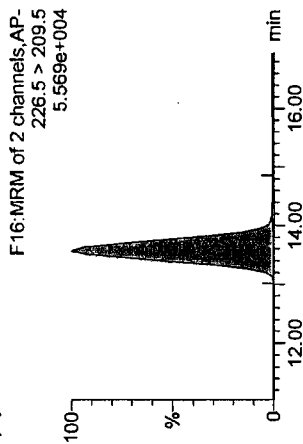
### Nitrobenzene



### Nitroglycerin



### 2,4,6-Trinitrotoluene



498

Method 8321, Explosives By LCMSMS

1145



LOT # 1489

# Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis,

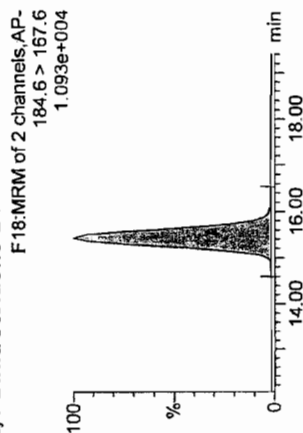
Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\R033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

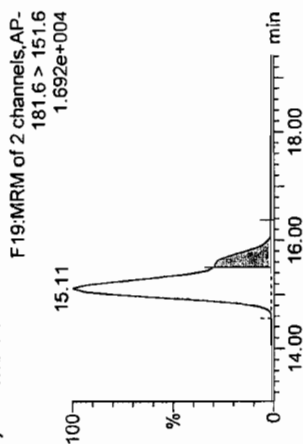
Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311011  
 Date: 31-Mar-2010  
 Time: 14:16:09  
 ID: LCMS73-76/10  
 Description: 8321 ICA-3 20.0ppb  
 User: WH  
 Vial: 1:4  
 Instrument: LCMSMSR  
 Task:

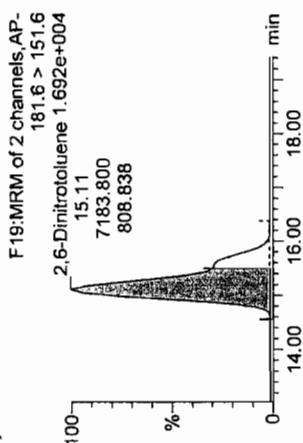
## 2,4-Dinitrotoluene D3



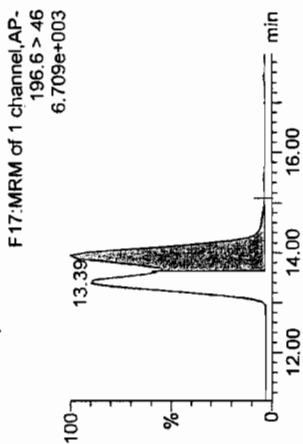
## 2,4-Dinitrotoluene



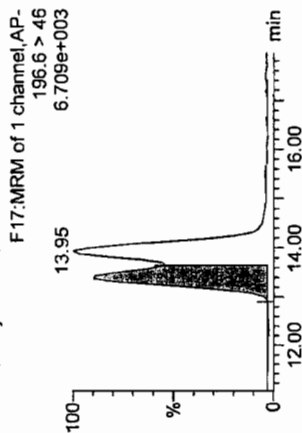
## 2,6-Dinitrotoluene



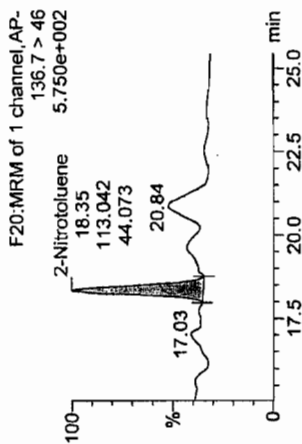
## 2-Amino-4,6-dinitrotoluene



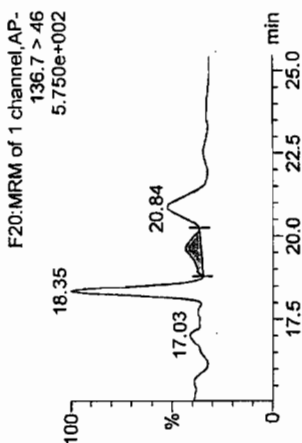
## 4-Amino-2,6-dinitrotoluene



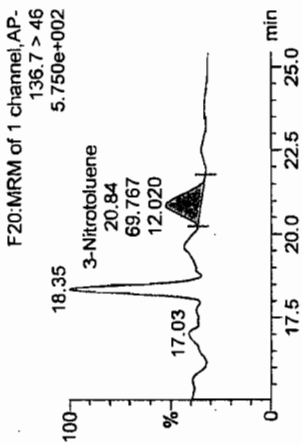
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



499 1145

Method 8321, Explosives By LCMSMS

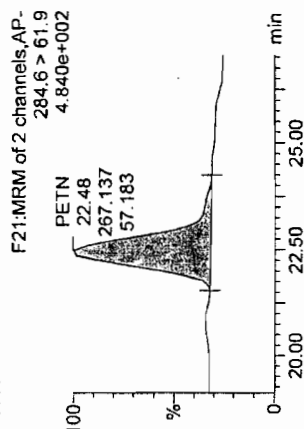
LOT # 89

Quantify Sample Report MassLynx 4.1

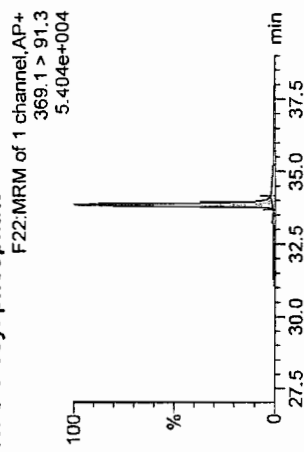
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R0331110\_LANL\8321\_ICAL\_033110.qld  
 List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time  
 Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311011  
 Date: 31-Mar-2010  
 Time: 14:16:09  
 ID: LCMS73-76/10  
 Description: 8321 ICA-3 20.0ppb  
 User: WH  
 Vial: 1:4  
 Instrument: LCMSMSR  
 Task:

PETN



Tri-o-cresyl phosphate



LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\Data\SavedExp\R033110\_LAN\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311011

Date: 31-Mar-2010

Time: 14:16:09

ID: LCMS73-76/10

Description: 8321 ICA-3 20.0ppb

User: WH

Vial: 1:4

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 ② Incomplete Integration  
 3. Wrong Peak  
 4. Other \_\_\_\_\_

Wt  
 4/1/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	3.966	9064.404		9064.404	bd	20.5680	102.840
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	4.485	1541.333		1541.333	db	19.4872	97.436
3	3... HMX 13C4	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	4.383	510.759		510.759	bb	493.9624	98.792
4	4... HMX	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	4.397	166.881	510.759	163.366	db	18.6400	93.200
5	5... RDX 13C3	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	6.925	2701.647		2701.647	bb	259.0109	103.604
6	6... RDX	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	6.928	175.998	2701.647	16.286	MM	16.2500	81.250
7	7... TATB	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	6.980	61.039		61.039	bd	21.6180	108.090
8	8... 1,2-Dinitrobenzene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	8.716	9880.699	4371.556	113.011	bd	22.7213	113.606
9	9... 1,3,5-Trinitrobenzene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	9.085	7875.344	4371.556	90.075	bb	20.3012	101.506
10	1... Tetryl	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	11.387	3643.381	4371.556	41.671	db	18.6089	93.044
11	1... 1,3-Dinitrobenzene D4	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	10.448	4371.556		4371.556	db	51.3839	102.768
12	1... 3,5-Dinitroaniline	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	11.132	7345.988	4371.556	84.020	bd	21.5722	107.861
13	1... 1,3-Dinitrobenzene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	10.564	1919.734	4371.556	21.957	db	20.4497	102.248
14	1... Nitrobenzene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	12.020	45.459	4371.556	0.520	dd	12.8587	64.294
15	1... Nitroglycerin	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	12.999	128.501	4371.556	1.470	MM	23.4350	117.175
16	1... 2,4,6-Trinitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	13.574	22017.863	4371.556	251.831	bb	21.0257	105.129
17	1... 2,4-Dinitrotoluene D3	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	15.433	4518.576		4518.576	bd	26.8714	107.486
18	1... 2,4-Dinitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	15.505	1344.437	4518.576	7.438	MM	18.9251	94.625
19	1... 2,6-Dinitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	15.114	7183.800	4518.576	39.746	MM	19.4557	97.279
20	2... 2-Amino-4,6-dinitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	13.950	2836.484	4518.576	15.693	db	19.8482	99.241
21	2... 4-Amino-2,6-dinitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	13.389	2231.759	4518.576	12.348	bd	19.3493	96.747
22	2... 2-Nitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	18.350	113.042	4518.576	0.625	bb	19.3287	96.644
23	2... 4-Nitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	19.663	34.445	4518.576	0.191	MM	14.5695	72.847
24	2... 3-Nitrotoluene	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	20.840	69.767	4518.576	0.386	bb	20.5145	102.573
25	2... PETN	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	22.477	267.137	4518.576	1.478	bb	20.8632	104.316
26	2... Tri-o-cresyl phosphate	8321 ICA-3 20.0ppb	LCMS73-76/10	20.000	33.867	6264.921		6264.921	bb	5.1965	129.913

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\data\SetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311011

Date: 31-Mar-2010

Time: 14:16:09

ID: LCMS73-76/10

Description: 8321 ICA-3 20.0ppb

User: WH

Vial: 1:4

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt/Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	2030.9...	2.880	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	278.895	2.326	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	96.563	2.571	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	32.443	2.601	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
5	283.5 > 46	534.196	3.373	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
6	280.5 > 46	34.499	3.358	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	7.820	3.916	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	1329.4...	3.590	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	964.834	3.687	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	650.520	2.508	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	906.540	3.559	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	151.187	2.551	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	238.121	3.310	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
14	122.5 > 46	7.280	2.376	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	24.937	2.615	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	3382.7...	2.520	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	706.078	2.375	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	230.640	3.545	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	808.838	2.327	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
20	196.6 > 46	244.209	2.289	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
21	196.6 > 46	218.750	2.606	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
22	136.7 > 46	44.073	3.309	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
23	136.7 > 46	5.303	1.306	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
24	136.7 > 46	12.020	1.462	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	57.183	1.239	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	1306.4...	8.522	31-Mar-10	14:16:09	1.000	1.000	1.000	1.000	

Method 8321, Explosives By LCMSMS

1145

LOT # 89

# Quantify Sample Report

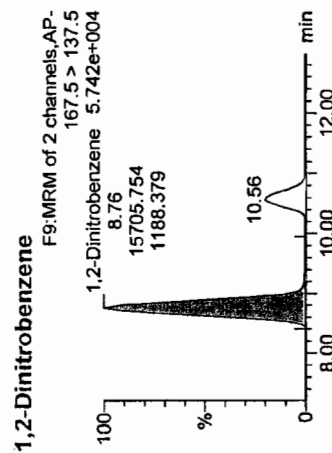
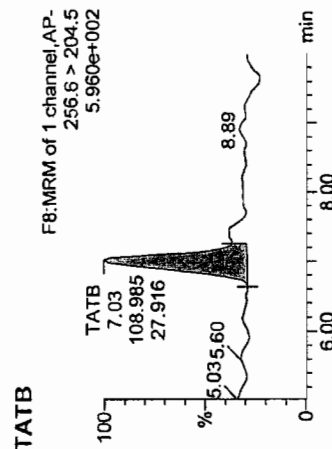
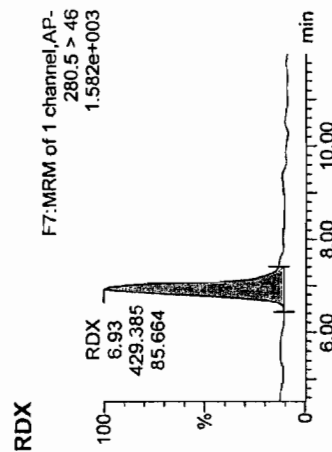
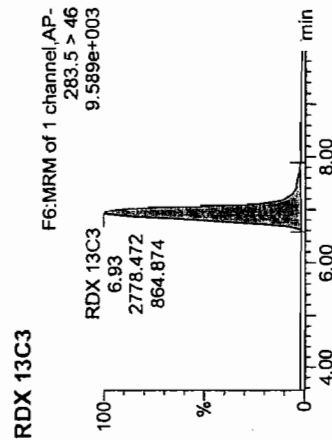
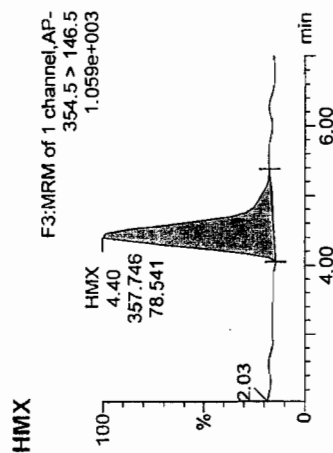
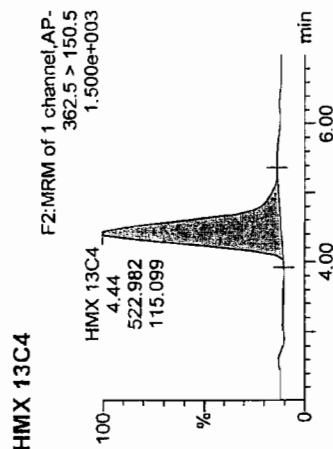
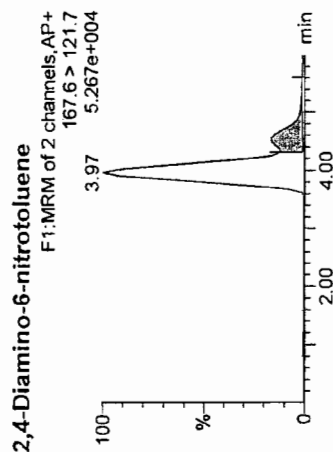
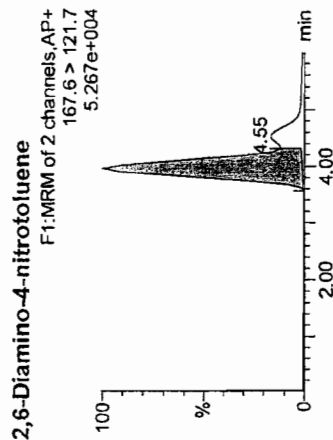
TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Test Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311012  
 Date: 31-Mar-2010  
 Time: 14:56:15  
 ID: LCMS73-76/10  
 Description: 8321 ICA-4 40.0ppb  
 User: WH  
 Vial: 1:5  
 Instrument: LCMSMSR  
 Task:



503 O 1145

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311012

Date: 31-Mar-2010

Time: 14:56:15

ID: LCMS73-76/10

Description: 8321 ICA-4 40.0ppb

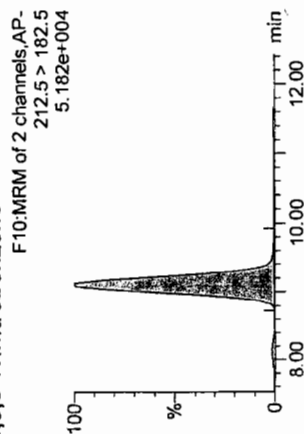
User: WH

Vial: 1:5

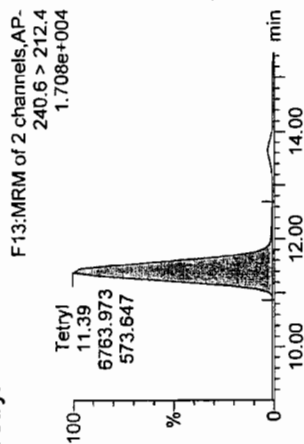
Instrument: LCMSMSR

Task:

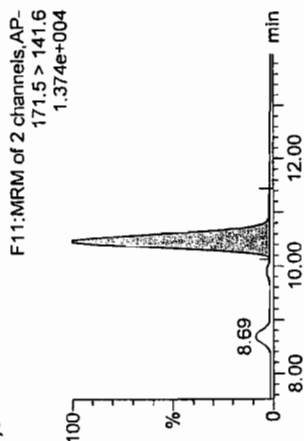
## 1,3,5-Trinitrobenzene



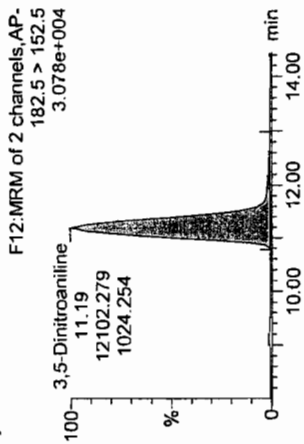
## Tetryl



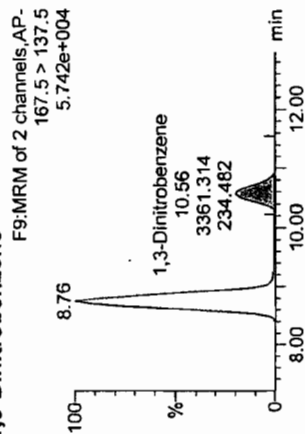
## 1,3-Dinitrobenzene D4



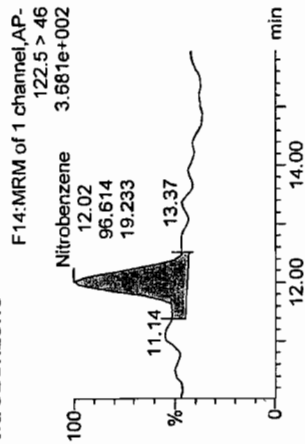
## 3,5-Dinitroaniline



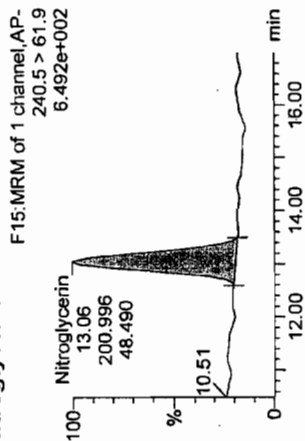
## 1,3-Dinitrobenzene



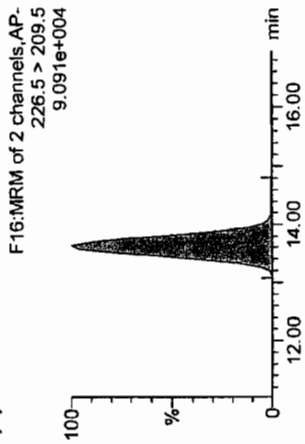
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



504

Method 8321, Explosives By LCMSMS

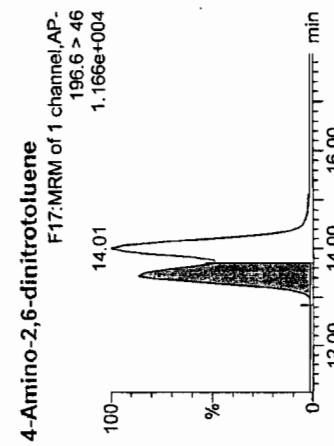
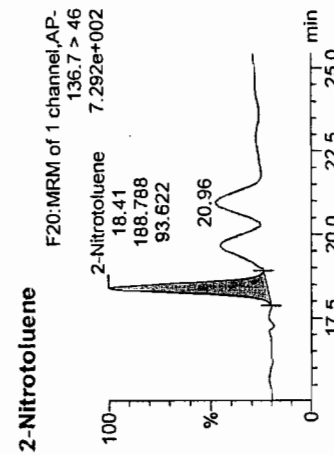
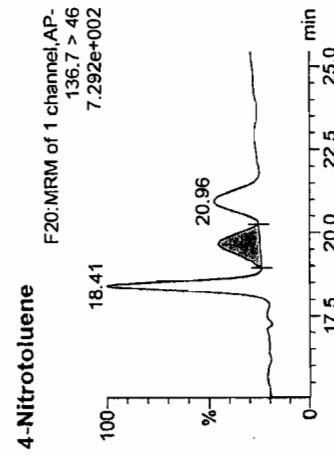
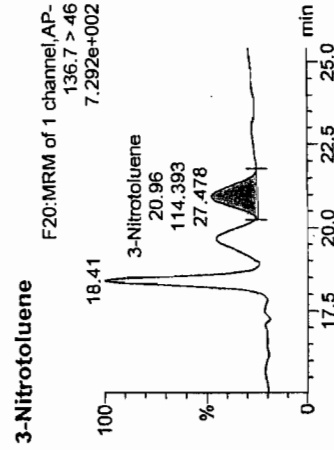
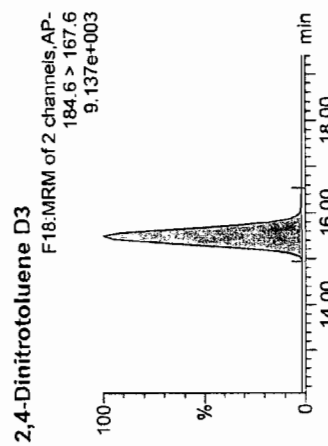
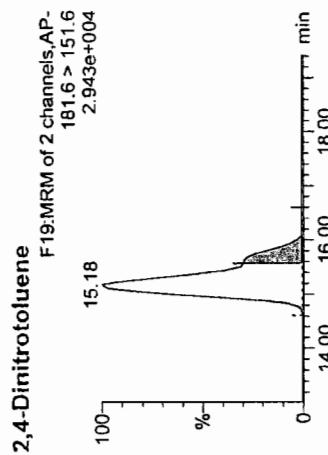
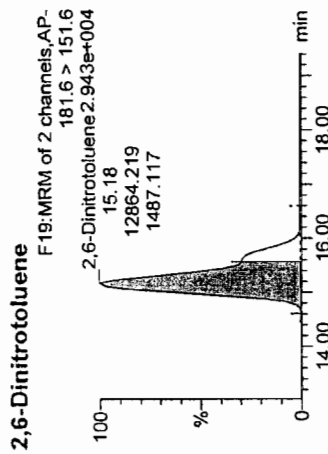
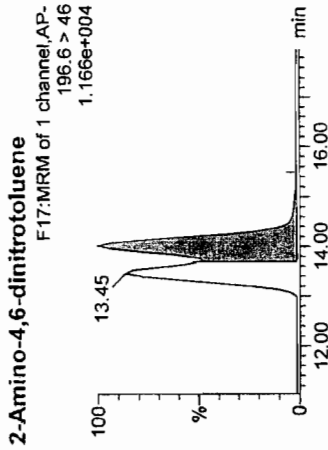
1145

LOT #

Quantify Sample Report MassLynx 4.1

TestAmerica, Inc., St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld  
 Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time  
 Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311012  
 Date: 31-Mar-2010  
 Time: 14:56:15  
 ID: LCMS73-76/10  
 Description: 8321 ICA-4 40.0ppb  
 User: WH  
 Vial: 1:5  
 Instrument: LCMSMSR  
 Task:



505

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311012

Date: 31-Mar-2010

Time: 14:56:15

ID: LCMS73-76/10

Description: 8321 ICA-4 40.0ppb

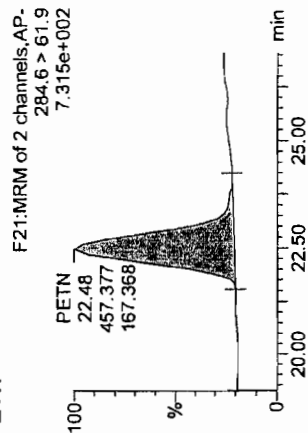
User: WH

Vial: 1:5

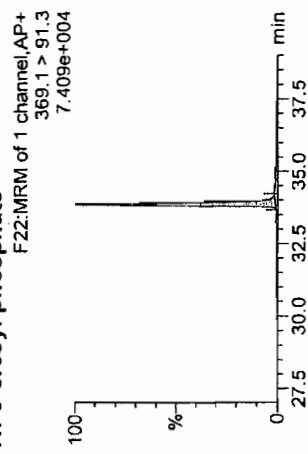
Instrument: LCMSMSR

Task:

PETN



Tri-o-cresyl phosphate



506

O

Method 8321, Explosives By LCMSMS

1145



LOT

Quantify Sample Report  
 TestAmerica, INC St. Louis  
 MassLynx 4.1

Dataset: C:\MassLynx\Explosives\PROJData\SetSaved\Exp\R0331110\_LANL\8321\_ICAL\_0331110.qld  
 List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time  
 Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311012

Date: 31-Mar-2010

Time: 14:56:15

ID: LCMS73-76/10

Description: 8321 ICA-4 40.0ppb

User: WH

Vial: 1:5

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete Integration  
 3. Wrong Peak  
 4. Other

#	Name	Sample Text	ID	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	18072.736	18072.736	18072.736	bd	41.0087	102.522
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	3470.239	3470.239	3470.239	db	43.8746	109.887
3	3... HMX 13C4	8321 ICA-4 40.0ppb	LCMS73-76/10	522.982	522.982	522.982	bb	505.7835	101.157
4	4... HMX	8321 ICA-4 40.0ppb	LCMS73-76/10	357.746	522.982	342.025	bb	39.0251	97.563
5	5... RDX 13C3	8321 ICA-4 40.0ppb	LCMS73-76/10	2778.472	2778.472	2778.472	bb	266.3762	106.550
6	6... RDX	8321 ICA-4 40.0ppb	LCMS73-76/10	429.385	2778.472	38.635	bd	38.5491	96.373
7	7... TATB	8321 ICA-4 40.0ppb	LCMS73-76/10	108.985	108.985	108.985	bd	38.5988	96.497
8	8... 1,2-Dinitrobenzene	8321 ICA-4 40.0ppb	LCMS73-76/10	15705.754	3935.311	199.549	dd	40.1200	100.300
9	9... 1,3,5-Trinitrobenzene	8321 ICA-4 40.0ppb	LCMS73-76/10	14208.007	3935.311	180.519	bb	40.6857	101.714
10	1... Tetra	8321 ICA-4 40.0ppb	LCMS73-76/10	6763.973	3935.311	85.939	db	38.3772	95.943
11	1... 1,3-Dinitrobenzene D4	8321 ICA-4 40.0ppb	LCMS73-76/10	3935.311	3935.311	3935.311	db	46.2562	92.512
12	1... 3,5-Dinitroaniline	8321 ICA-4 40.0ppb	LCMS73-76/10	12102.279	3935.311	153.765	bb	39.4793	98.698
13	1... 1,3-Dinitrobenzene	8321 ICA-4 40.0ppb	LCMS73-76/10	3361.314	3935.311	42.707	bb	39.7751	99.438
14	1... Nitrobenzene	8321 ICA-4 40.0ppb	LCMS73-76/10	96.614	3935.311	1.228	dd	38.8028	97.007
15	1... Nitroglycerin	8321 ICA-4 40.0ppb	LCMS73-76/10	200.996	3935.311	2.554	bb	40.7196	101.799
16	1... 2,4,6-Trinitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	36310.406	3935.311	461.341	bb	38.5180	96.295
17	1... 2,4-Dinitrotoluene D3	8321 ICA-4 40.0ppb	LCMS73-76/10	3754.725	3754.725	3754.725	bb	22.3289	89.316
18	1... 2,4-Dinitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	2324.445	3754.725	15.477	MM	39.3768	98.442
19	1... 2,6-Dinitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	12864.219	3754.725	85.654	MM	41.9276	104.819
20	2... 2-Amino-4,6-dinitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	5047.464	3754.725	33.607	db	42.5047	106.262
21	2... 4-Amino-2,6-dinitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	3833.140	3754.725	25.522	bd	39.9941	99.985
22	2... 2-Nitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	188.788	3754.725	1.257	bb	38.8473	97.118
23	2... 4-Nitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	102.598	3754.725	0.683	MM	52.7319	131.830
24	2... 3-Nitrotoluene	8321 ICA-4 40.0ppb	LCMS73-76/10	114.393	3754.725	0.762	db	40.4794	101.199
25	2... PETN	8321 ICA-4 40.0ppb	LCMS73-76/10	457.377	3754.725	3.045	db	42.9877	107.469
26	2... Tri-o-cresyl phosphate	8321 ICA-4 40.0ppb	LCMS73-76/10	8491.903	8491.903	8491.903	bb	7.2567	90.708

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantity Sample Report MassLynx 4.1

Test America, INC St. Louis

Dataset: C:\MassLynx\Explosives\PRO\Data\SetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311012

Date: 31-Mar-2010

Time: 14:56:15

ID: LCMS73-76/10

Description: 8321 ICA-4 40.0ppb

User: WH

Vial: 1:5

Instrument: LCMSMSR

Task:

Trace	Sec.Trace	S/N	Height/Area	Acq.Date	Acq.Time	Initial Wt./Volume (g/	Final Volume (mL)	Prep.Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	1807.5...	2.886	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	285.883	2.377	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	115.099	2.539	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	78.541	2.516	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
5	283.5 > 46	864.874	3.384	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
6	280.5 > 46	85.664	3.288	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	27.916	3.872	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	1188.3...	3.644	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	7156.0...	3.631	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	573.647	2.504	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	1099.4...	3.441	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	1024.2...	2.527	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	234.482	3.359	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
14	122.5 > 46	19.233	2.143	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	48.490	2.607	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	6485.2...	2.498	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	464.083	2.397	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	432.058	3.660	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	1487.1...	2.276	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
20	196.6 > 46	164.034	2.281	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
21	196.6 > 46	141.168	2.585	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
22	136.7 > 46	93.622	3.014	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
23	136.7 > 46	25.010	1.482	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
24	136.7 > 46	27.478	1.460	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	167.368	1.270	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	2108.7...	8.645	31-Mar-10	14:56:15	1.000	1.000	1.000	1.000	

8

Method 8321, Explosives By LCMSMS

1145

LOT # 89

# Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSet\ExpR033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICA-7 500ppb

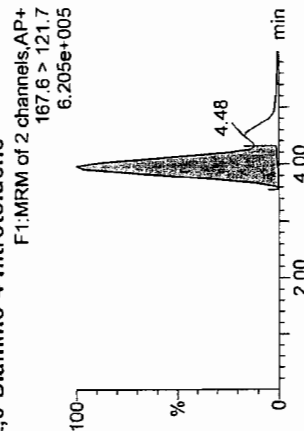
User: WH

Vial: 1:8

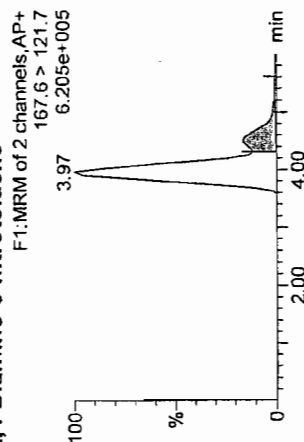
Instrument: LCMSMSR

Task:

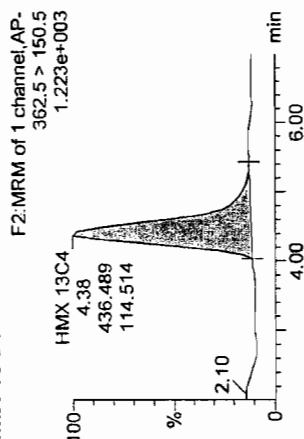
## 2,6-Diamino-4-nitrotoluene



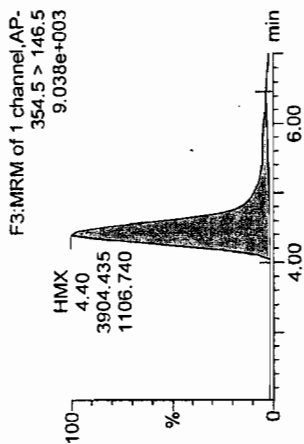
## 2,4-Diamino-6-nitrotoluene



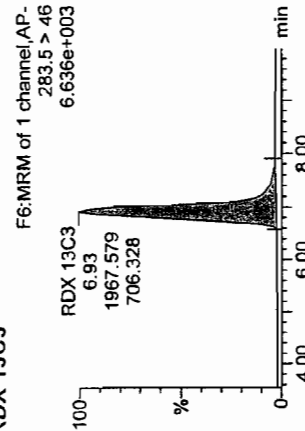
## HMX 13C4



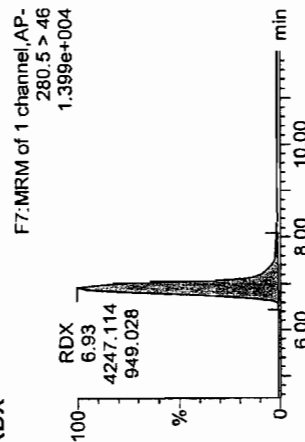
## HMX



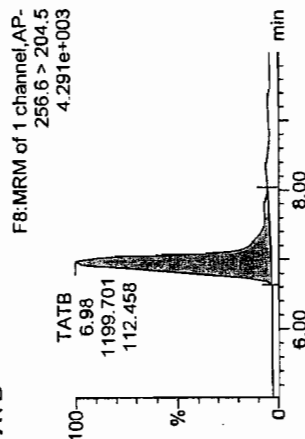
## RDX 13C3



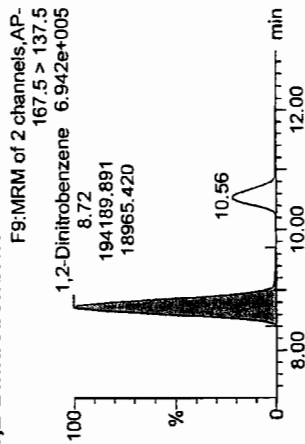
## RDX



## TATB



## 1,2-Dinitrobenzene



LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICA-7 500ppb

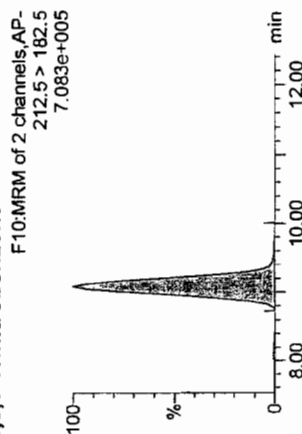
User: WH

Vial: 1:8

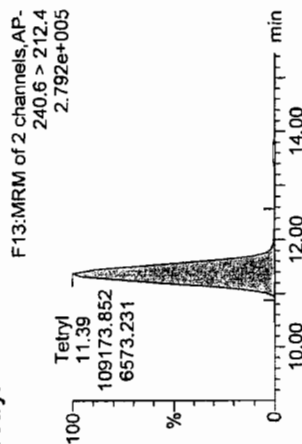
Instrument: LCMSMSR

Task:

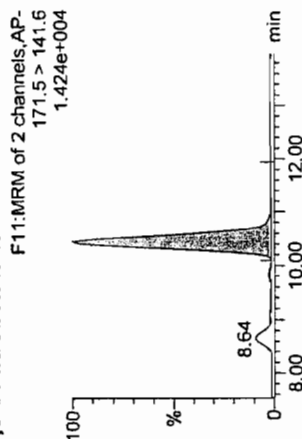
## 1,3,5-Trinitrobenzene



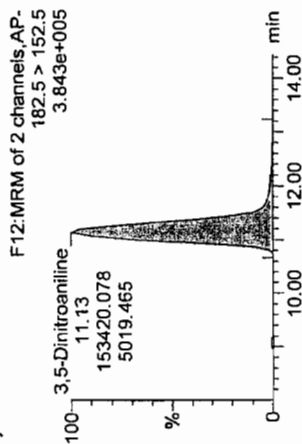
## Tetryl



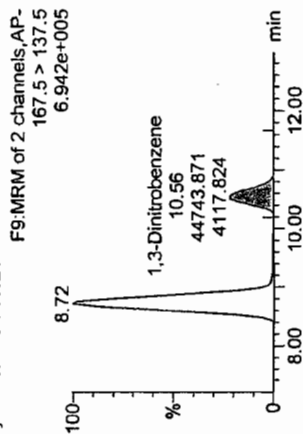
## 1,3-Dinitrobenzene D4



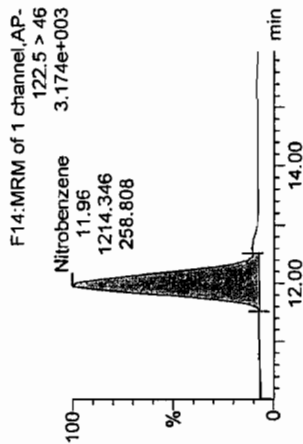
## 3,5-Dinitroaniline



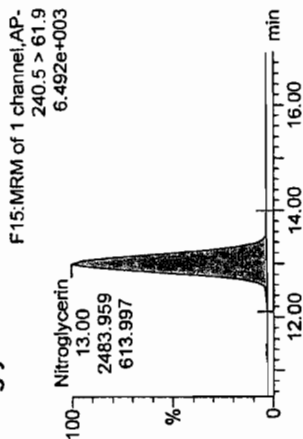
## 1,3-Dinitrobenzene



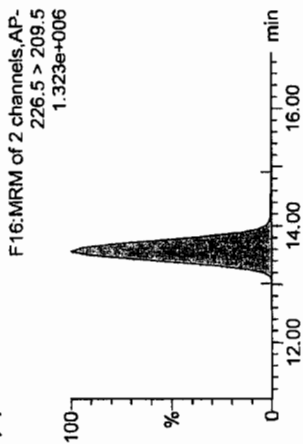
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



510

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROJData\SetSavedExp\033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICAI-7 500ppb

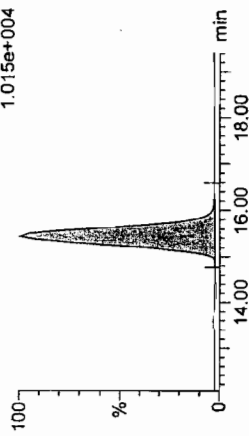
User: WH

Vial: 1:8

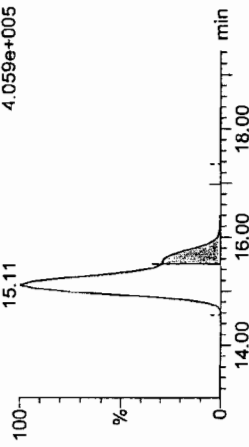
Instrument: LCMSMSR

Task:

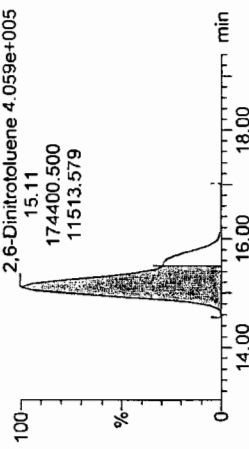
## 2,4-Dinitrotoluene D3

F18:MRM of 2 channels,AP-  
184.6 > 167.6  
1.015e+004

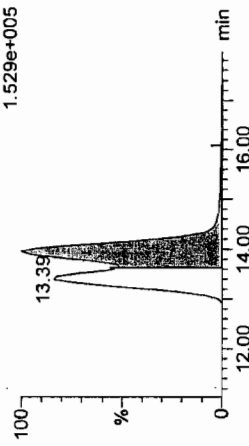
## 2,4-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
4.059e+005

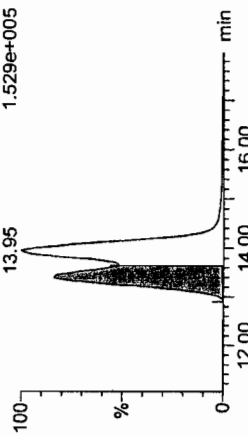
## 2,6-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
4.059e+005

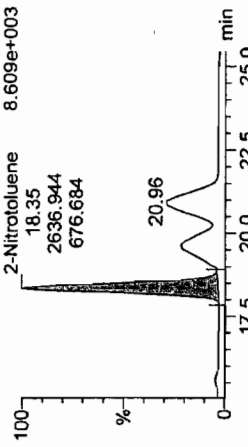
## 2-Amino-4,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
1.529e+005

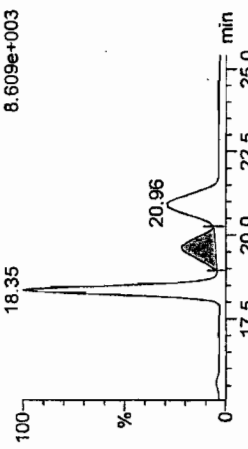
## 4-Amino-2,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
1.529e+005

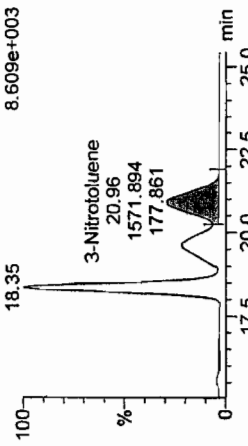
## 2-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
8.609e+003

## 4-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
8.609e+003

## 3-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
8.609e+003

511

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICA-7 500ppb

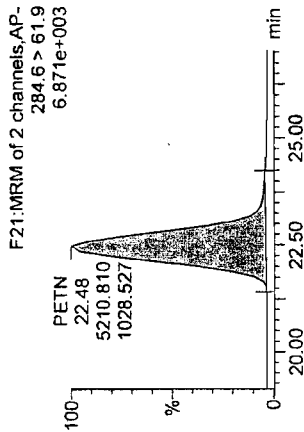
User: WH

Vial: 1:8

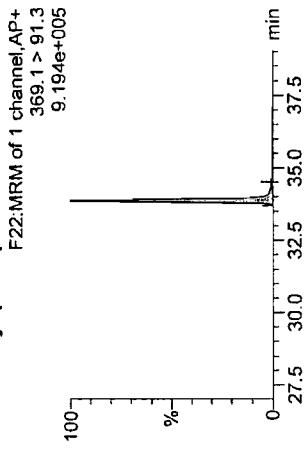
Instrument: LCMSMSR

Task:

PETN



Tri-o-cresyl phosphate



512

0

Method 8321, Explosives By LCMSMS

1145

LOT

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICAI-7 500ppb

User: WH

Vial: 1:8

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete Integration  
 3. Wrong Peak  
 4. Other

W4  
 4/1/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	3.966	214935.828		214935.828	bd	487.7091	97.542
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	4.485	40420.855		40420.855	db	511.0455	102.209
3	3... HMX 13C4	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	4.383	436.489		436.489	bb	422.1348	84.427
4	4... HMX	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	4.397	3904.435		4472.547	bb	510.3181	102.064
5	5... RDX 13C3	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	6.925	1967.579		1967.579	bb	188.6347	75.454
6	6... RDX	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	6.929	4247.114		539.637	bd	538.4373	107.687
7	7... TATB	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	6.980	1199.701		1199.701	bb	424.8937	84.979
8	8... 1,2-Dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	8.716	194189.891		3962.325	bb	492.6715	98.534
9	9... 1,3,5-Trinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	9.085	191378.688		2414.980	bb	544.2910	108.858
10	1... Tetrayl	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	11.387	109173.852		1377.649	bb	615.2046	123.041
11	1... 1,3-Dinitrobenzene D4	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	10.448	3962.325		3962.325	bb	46.5738	93.148
12	1... 3,5-Dinitroaniline	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	11.132	153420.078		1935.986	bb	497.0647	99.413
13	1... 1,3-Dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	10.564	44743.871		564.616	bb	525.8530	105.171
14	1... Nitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	11.957	1214.346		3962.325	dd	555.6471	111.129
15	1... Nitroglycerin	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	12.999	2483.959		31.345	bb	499.7921	99.958
16	1... 2,4,6-Trinitrotoluene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	13.574	530374.250		6892.715	bb	558.7840	111.757
17	1... 2,4-Dinitrobenzene D3	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	15.433	4234.143		4234.143	bd	25.1800	100.720
18	1... 2,4-Dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	15.505	34162.652		201.709	MM	513.1982	102.640
19	1... 2,6-Dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	15.114	174400.500		1029.727	MM	504.0534	100.811
20	2... 2-Amino-4,6-dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	13.950	68703.281		405.650	db	513.0432	102.609
21	2... 4-Amino-2,6-dinitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	13.389	49693.676		293.410	bd	459.7855	91.957
22	2... 2-Nitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	18.350	2636.944		15.570	bb	481.1716	96.234
23	2... 4-Nitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	19.663	983.893		5.809	MM	449.9009	89.980
24	2... 3-Nitrobenzene	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	20.957	1571.894		9.281	db	493.2544	98.651
25	2... PETN	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	22.477	5210.810		30.767	bb	434.2977	86.860
26	2... Tri-o-cresyl phosphate	8321 ICAI-7 500ppb	LCMS73-76/10	500.000	33.874	109721.578		109721.578	bd	100.9036	100.904

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311014

Date: 31-Mar-2010

Time: 15:36:26

ID: LCMS73-76/10

Description: 8321 ICAI-7 500ppb

User: WH

Vial: 1:8

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Wt./Volume (g/L)	Final Volume (mL)	Prep. Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	26775...	2.871	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	4274.9...	2.438	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	114.514	2.488	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	1106.7...	2.279	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
5	283.5 > 46	706.328	3.291	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
6	280.5 > 46	949.028	3.257	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	112.458	3.444	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	18965...	3.571	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	11182...	3.896	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	6573.2...	2.554	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	758.343	3.546	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	5019.4...	2.502	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	4117.8...	3.365	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
14	122.5 > 46	258.808	2.429	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	613.997	2.531	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	18882...	2.492	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	1111.3...	2.343	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	3348.2...	3.452	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	11513...	2.325	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
20	196.6 > 46	3720.8...	2.218	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
21	196.6 > 46	3121.1...	2.573	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
22	136.7 > 46	676.684	3.153	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
23	136.7 > 46	117.136	1.463	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
24	136.7 > 46	177.861	1.390	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	1028.5...	1.268	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	16471...	8.368	31-Mar-10	15:36:26	1.000	1.000	1.000	1.000	

Method 8321, Explosives By LCMSMS

1145



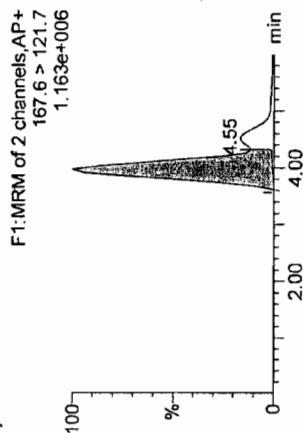
LOT # 89

# Quantify Sample Report MassLynx 4.1

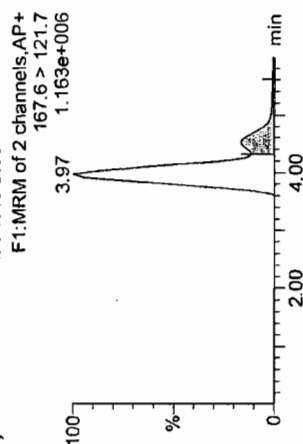
Test America, INC. St. Louis.  
 Dataset: C:\MassLynx\Explosives\PRO\DataSet\Exp\R033110\_LANL\8321\_ICAL\_033110.qld  
 Date Acquired: Thursday, April 01, 2010 08:59:58 Central Daylight Time  
 Print: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311015  
 Date: 31-Mar-2010  
 Time: 16:16:31  
 ID: LCMS73-76/10  
 Description: 8321 ICA-8 1000ppb  
 User: WH  
 Vial: 1:9  
 Instrument: LCMSMSR  
 Task:

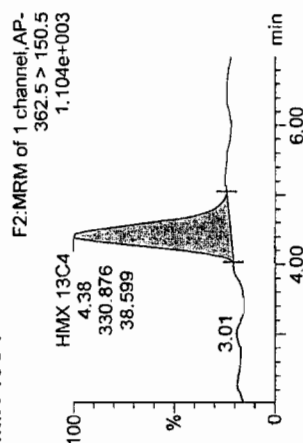
## 2,6-Diamino-4-nitrotoluene



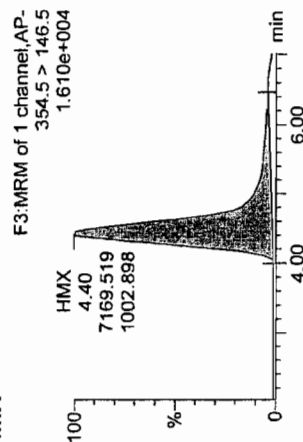
## 2,4-Diamino-6-nitrotoluene



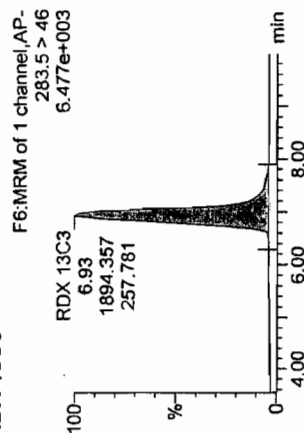
## HMX 13C4



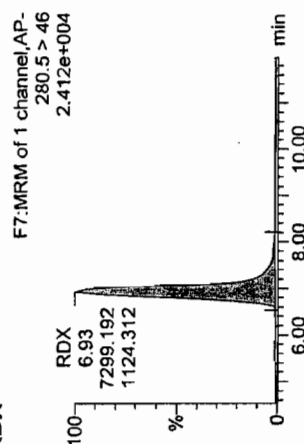
## HMX



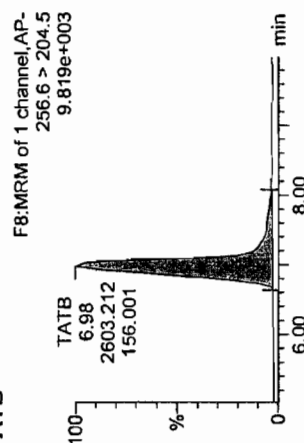
## RDX 13C3



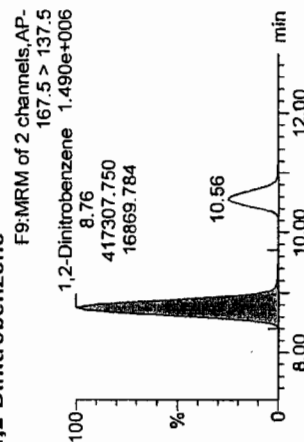
## RDX



## TATB



## 1,2-Dinitrobenzene



515 O 1145

Method 8321, Explosives By LCMSMS

LOT

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROData\SetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

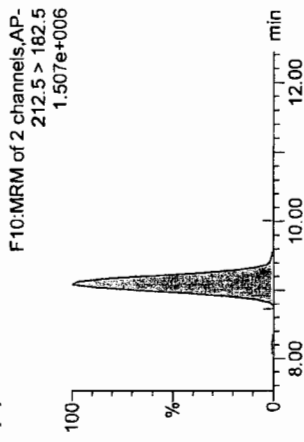
List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

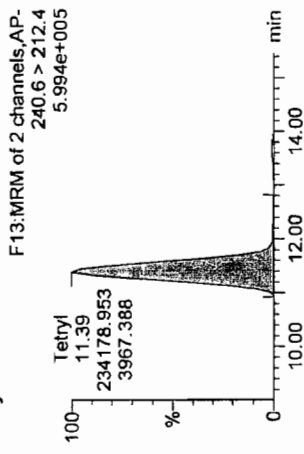
489

Name: R03311015  
 Date: 31-Mar-2010  
 Time: 16:16:31  
 ID: LCMS73-76/10  
 Description: 8321 ICAI-8 1000ppb  
 User: WH  
 Vial: 1:9  
 Instrument: LCMSMSR  
 Task:

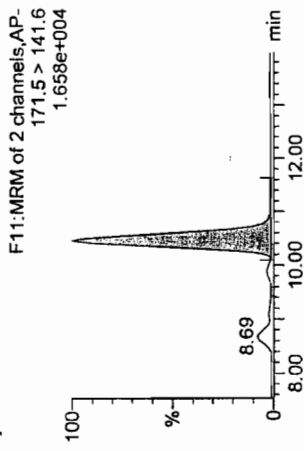
## 1,3,5-Trinitrobenzene



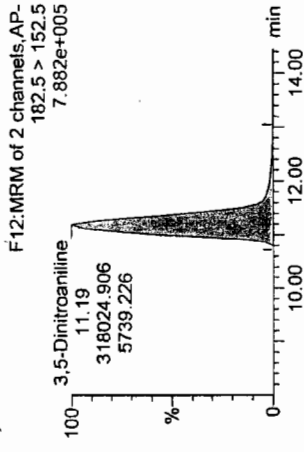
## Tetryl



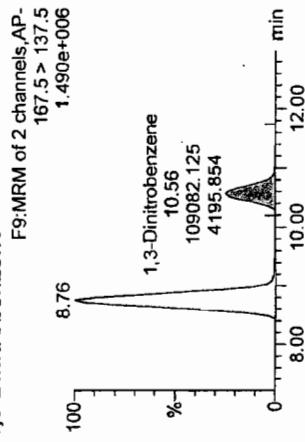
## 1,3-Dinitrobenzene D4



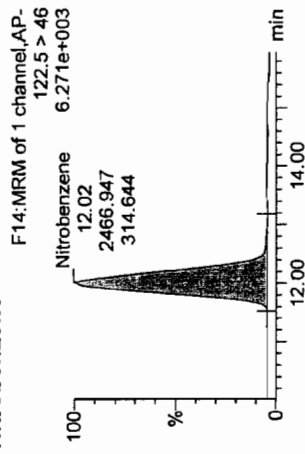
## 3,5-Dinitroaniline



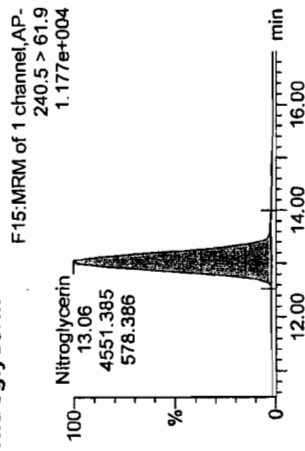
## 1,3-Dinitrobenzene



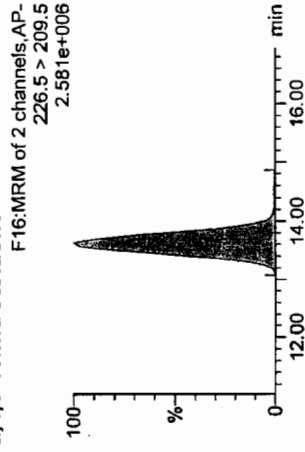
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



516

Method 8321, Explosives By LCMSMS

1145

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSaved\Exp\033110\_LANL\8321\_ICAL\_033110.qld

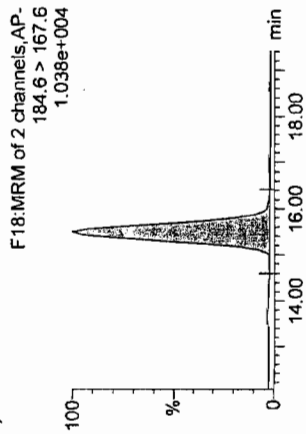
Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

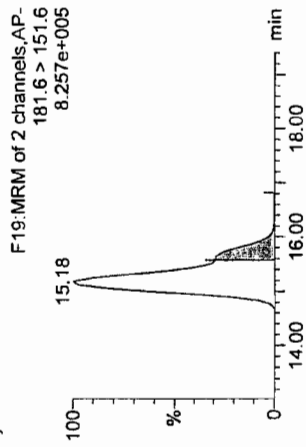
489

Name: R03311015  
Date: 31-Mar-2010  
Time: 16:16:31  
ID: LCMS73-76/10  
Description: 8321 ICA-8 1000ppb  
User: WH  
Vial: 1:9  
Instrument: LCMSMSR  
Task:

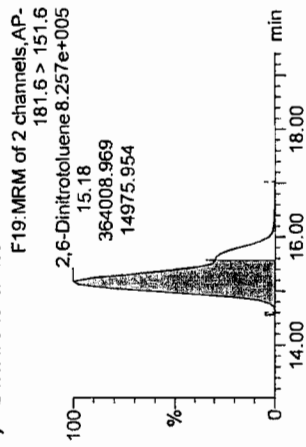
2,4-Dinitrotoluene D3



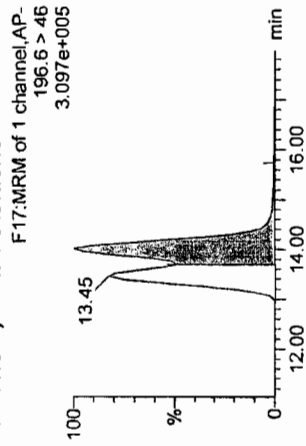
2,4-Dinitrotoluene



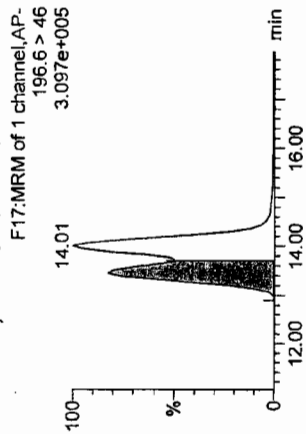
2,6-Dinitrotoluene



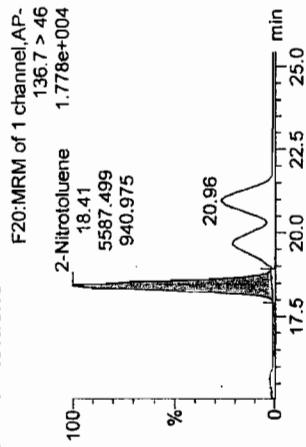
2-Amino-4,6-dinitrotoluene



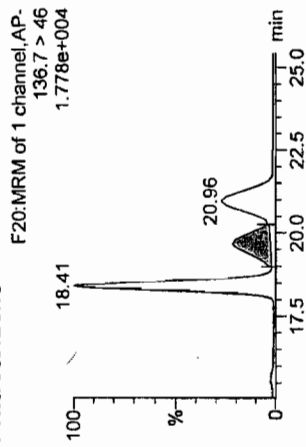
4-Amino-2,6-dinitrotoluene



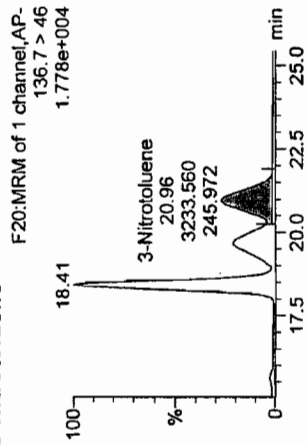
2-Nitrotoluene



4-Nitrotoluene



3-Nitrotoluene



LOT

#

Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROJDataSet\SaveExp\033110\_LANL\8321\_ICAL\_033110.qid

List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311015

Date: 31-Mar-2010

Time: 16:16:31

ID: LCMS73-76/10

Description: 8321 ICAI-8 1000ppb

User: WH

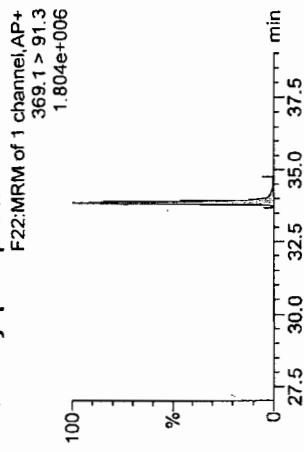
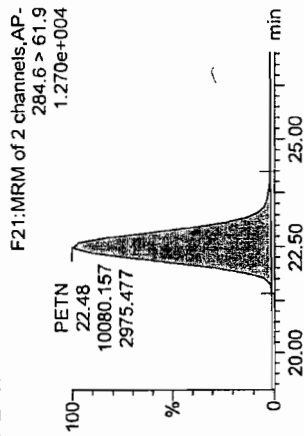
Vial: 1:9

Instrument: LCMSMSR

Task:

PETN

Tri-o-cresyl phosphate



518

O

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report      MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROData\SetSaved\ExpR033110\_LANL\8321\_ICAL\_033110.qld

List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311015

Date: 31-Mar-2010

Time: 16:16:31

ID: LCMS73-76/10

Description: 8321 ICA-8 1000ppb

User: WH

Vial: 1:9

Instrument: LCMSMSR

Task:

1. Peak Not Found

2. Incomplete Integration

3. Wrong Peak

4. Other

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4/1/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Del Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	3.966	399426.406	399426.406	399426.406	bd	906.3352	90.634
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	4.546	78366.563	78366.563	78366.563	db	990.7974	99.080
3	3... HMX 13C4	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	4.383	330.876	330.876	330.876	bb	319.9950	63.999
4	4... HMX	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	4.397	7169.519	330.876	10834.148	bb	1236.1774	123.618
5	5... RDX 13C3	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	6.925	1894.357	1894.357	1894.357	bb	181.6148	72.646
6	6... RDX	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	6.929	7299.192	1894.357	963.281	bb	961.1394	96.114
7	7... TATB	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	6.980	2603.212	2603.212	2603.212	bd	921.9701	92.197
8	8... 1,2-Dinitrobenzene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	8.761	417307.750	4631.971	4504.646	bb	905.6733	90.567
9	9... 1,3,5-Trinitrobenzene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	9.085	413479.063	4631.971	4463.317	bb	1005.9476	100.595
10	1... Tetra	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	11.387	234178.953	4631.971	2527.854	bb	1128.8417	112.884
11	1... 1,3-Dinitrobenzene D4	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	10.448	4631.971	4631.971	4631.971	db	54.4449	108.890
12	1... 3,5-Dinitroaniline	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	11.195	318024.906	4631.971	3432.933	bb	881.4062	88.141
13	1... 1,3-Dinitrobenzene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	10.564	109082.125	4631.971	1177.491	bb	1096.6516	109.665
14	1... Nitroglycerin	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	12.020	2466.947	4631.971	26.630	bb	970.1859	97.019
15	1... Nitroglycerin	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	13.061	4551.385	4631.971	49.130	bb	783.3805	78.338
16	1... 2,4,6-Trinitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	13.636	1042721.1...	4631.971	11255.696	bb	939.7535	93.975
17	1... 2,4-Dinitrotoluene D3	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	15.498	4301.450	4301.450	4301.450	bb	25.5802	102.321
18	1... 2,4-Dinitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	15.567	66846.891	4301.450	388.514	MM	988.4743	98.847
19	1... 2,6-Dinitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	15.180	394008.969	4301.450	2115.618	MM	1035.5988	103.560
20	2... 2-Amino-4,6-dinitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	14.012	137424.563	4301.450	798.711	db	1010.1630	101.016
21	2... 4-Amino-2,6-dinitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	13.451	100408.352	4301.450	583.573	bd	914.4809	91.448
22	2... 2-Nitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	18.413	5587.499	4301.450	32.475	bb	1003.6150	100.362
23	2... 4-Nitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	19.663	2310.282	4301.450	13.427	bd	1040.1404	104.014
24	2... 3-Nitrotoluene	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	20.958	3233.560	4301.450	18.793	db	998.8017	99.880
25	2... PETN	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	22.477	10080.157	4301.450	58.586	bb	826.9900	82.699
26	2... Tri-o-cresyl phosphate	8321 ICA-8 1000ppb	LCMS73-76/10	1000.000	33.867	213568.594	4301.450	213568.594	bb	196.9719	98.486

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSet\SaveExp\R033110\_LANL\8321\_ICAL\_033110.qld

List Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311015

Date: 31-Mar-2010

Time: 16:16:31

ID: LCMS73-76/10

Description: 8321 ICA-8 1000ppb

User: WH

Vial: 1:9

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Wt./Volume (g)	Final Volume (mL)	Prep. Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	36551...	2.894	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	5908.7...	2.385	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	38.599	2.614	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	1002.8...	2.207	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
5	283.5 > 46	257.781	3.288	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
6	280.5 > 46	1124.3...	3.266	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	156.001	3.669	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	16869...	3.568	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	42741...	3.641	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	3967.3...	2.557	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	330.965	3.533	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	5739.2...	2.476	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	4195.8...	3.395	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
14	122.5 > 46	314.644	2.436	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	578.386	2.530	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	13629...	2.473	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	352.625	2.362	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	4363.1...	3.595	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	14975...	2.266	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
20	196.6 > 46	3842.7...	2.248	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
21	196.6 > 46	3170.3...	2.538	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
22	136.7 > 46	940.975	3.132	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
23	136.7 > 46	182.301	1.467	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
24	136.7 > 46	245.972	1.415	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	2975.4...	1.241	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	19584...	8.436	31-Mar-10	16:16:31	1.000	1.000	1.000	1.000	

Method 8321, Explosives By LCMSMS

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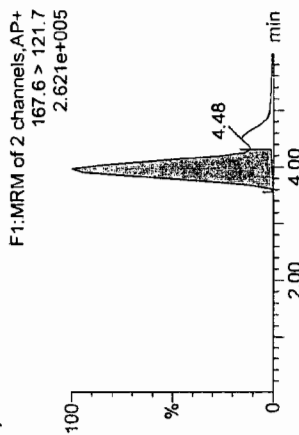
LOT # 89

# Quantify Sample Report

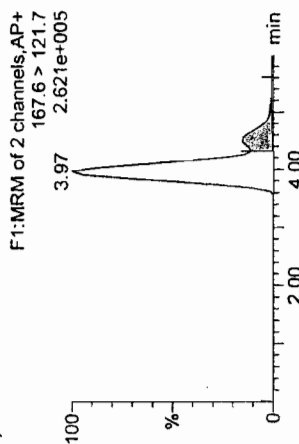
TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives\PROData\SetSavedExp\033110\_LANLI8321\_ICAL\_033110.qld  
 Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time  
 Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

Name: R03311016  
 Date: 31-Mar-2010  
 Time: 16:56:41  
 ID: LCMS73-76/10  
 Description: 8321 ICAI-6 200ppb  
 User: WH  
 Vial: 1:7  
 Instrument: LCMSMSR  
 Task:

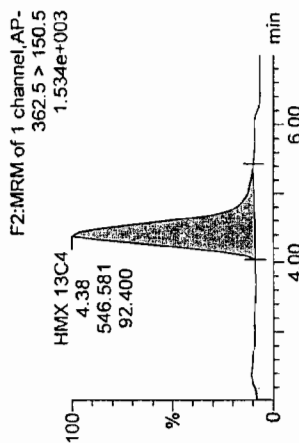
## 2,6-Diamino-4-nitrotoluene



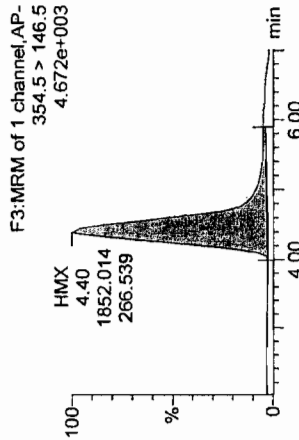
## 2,4-Diamino-6-nitrotoluene



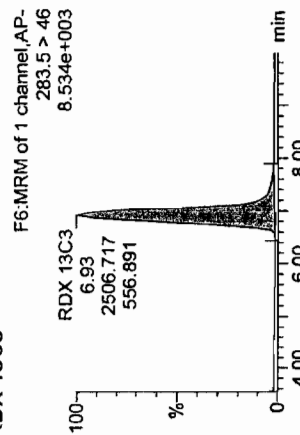
## HMX 13C4



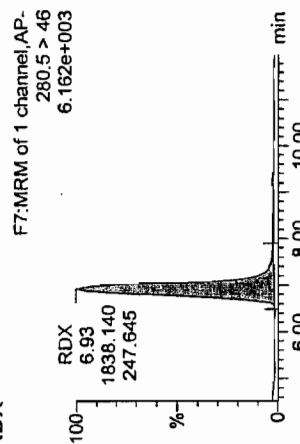
## HMX



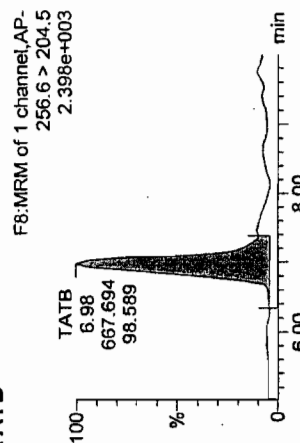
## RDX 13C3



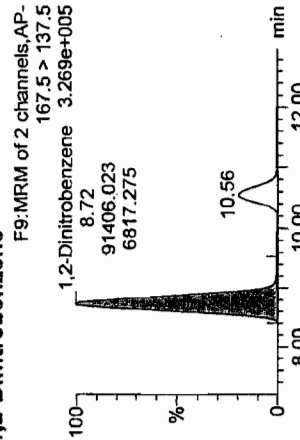
## RDX



## TATB



## 1,2-Dinitrobenzene



521 0 1145

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis.

Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311016

Date: 31-Mar-2010

Time: 16:56:41

ID: LCMS73-76/10

Description: 8321 ICA-6 200ppb

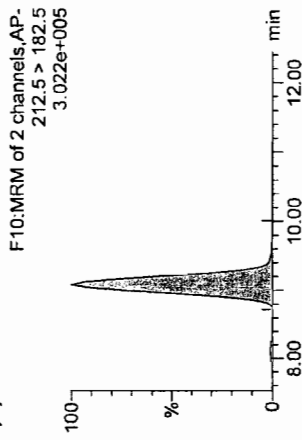
User: WH

Vial: 1:7

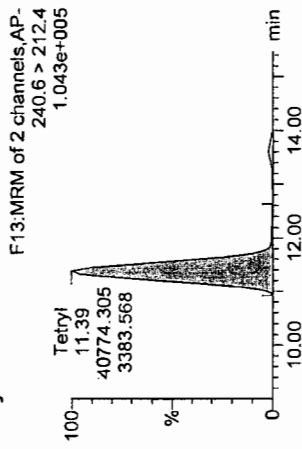
Instrument: LCMSMSR

Task:

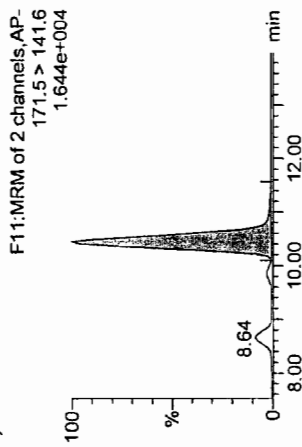
## 1,3,5-Trinitrobenzene



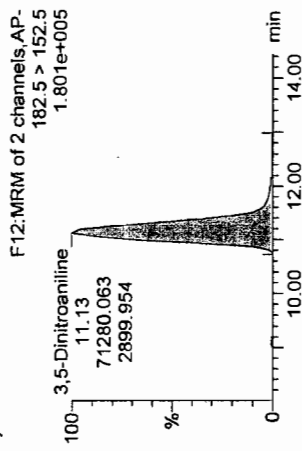
## Tetryl



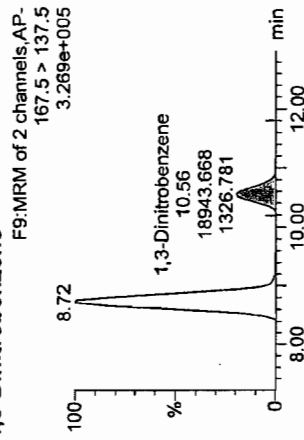
## 1,3-Dinitrobenzene D4



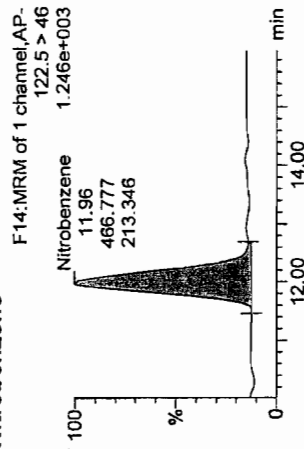
## 3,5-Dinitroaniline



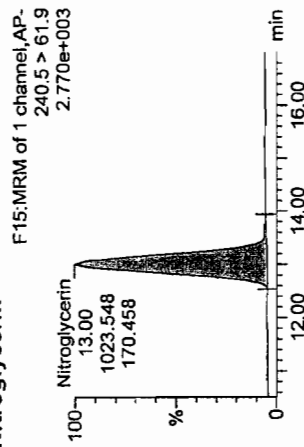
## 1,3-Dinitrobenzene



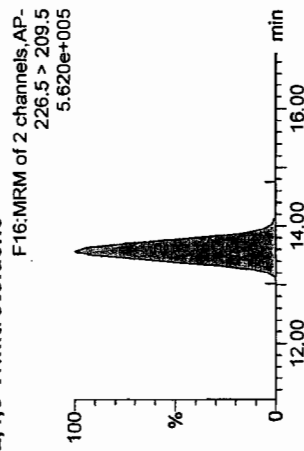
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



522

Method 8321, Explosives By LCMSMS

1145



LOT

# Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROData\SetSavedExp\R033110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

489

Name: R03311016

Date: 31-Mar-2010

Time: 16:56:41

ID: LCMS73-76/10

Description: 8321 ICAI-6 200ppb

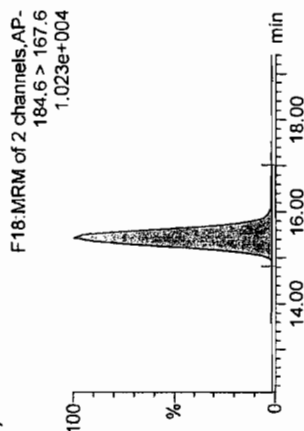
User: WH

Vial: 1:7

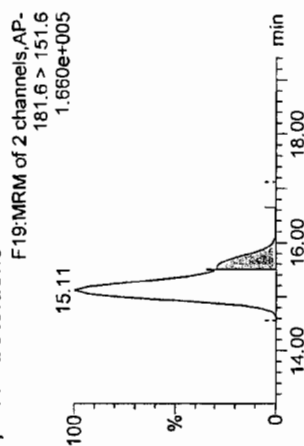
Instrument: LCMSMSR

Task:

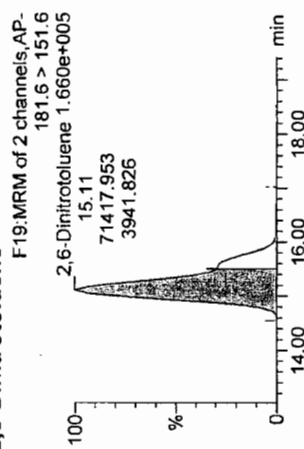
## 2,4-Dinitrotoluene D3



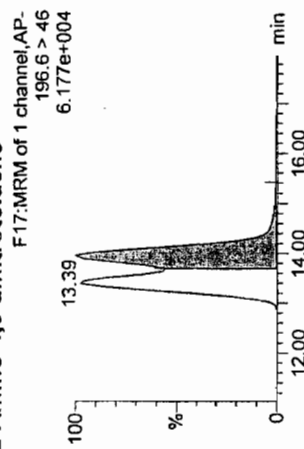
## 2,4-Dinitrotoluene



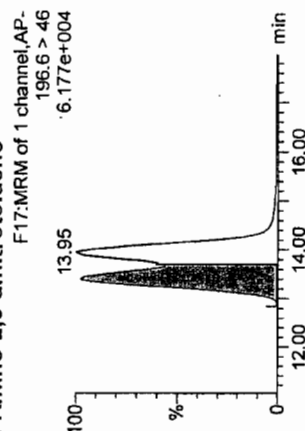
## 2,6-Dinitrotoluene



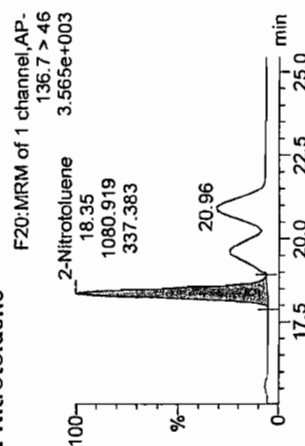
## 2-Amino-4,6-dinitrotoluene



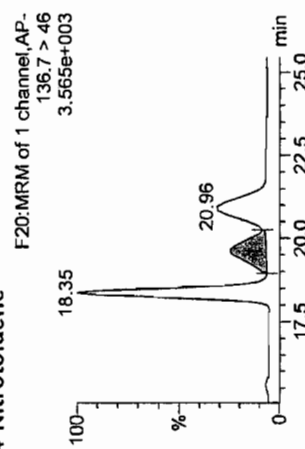
## 4-Amino-2,6-dinitrotoluene



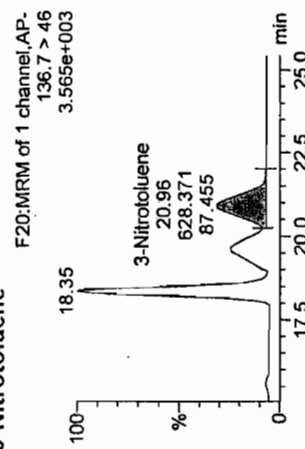
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



523

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROJData\SavedExp\R033110\LANL\8321\_ICAL\_033110.qld

Test Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311016

Date: 31-Mar-2010

Time: 16:56:41

ID: LCMS73-76/10

Description: 8321 ICAI-6 200ppb

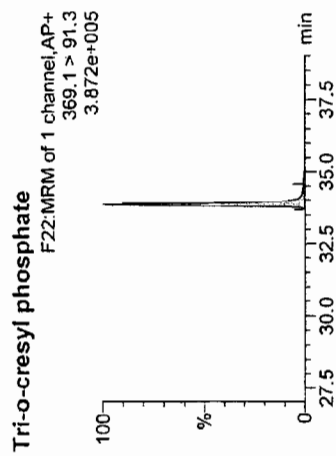
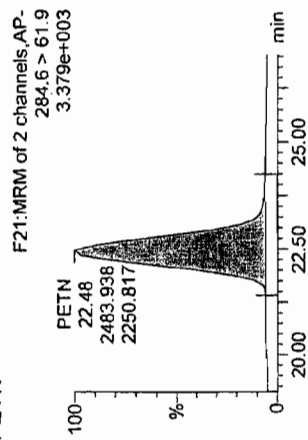
User: WH

Vial: 1:7

Instrument: LCMSMSR

Task:

PETN



524 0 1145

Method 8321, Explosives By LCMSMS

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\RO33110\_LANL8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311016

Date: 31-Mar-2010

Time: 16:56:41

ID: LCMS73-76/10

Description: 8321 ICA-6 200ppb

User: WH

Vial: 1:7

Instrument: LCMSMSR

Task:

1. Peak Not Found

2. Incomplete Integration

3. Wrong Peak

4. Other

W4  
4/1/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	S Area	Response	Det Flags	ppb	%Rec
1...	2,6-Diamino-4-nitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	3.966	90625.148	90625.148	90625.148	bd	205.6368	102.818
2...	2,4-Diamino-6-nitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	4.485	16227.655	16227.655	16227.655	db	205.1681	102.584
3...	HMX 13C4	8321 ICA-6 200ppb	LCMS73-76/10	200.000	4.383	546.581	546.581	546.581	bb	528.6064	105.721
4...	HMX	8321 ICA-6 200ppb	LCMS73-76/10	200.000	4.397	1852.014	546.581	1694.181	bd	193.3062	96.653
5...	RDX 13C3	8321 ICA-6 200ppb	LCMS73-76/10	200.000	6.925	2506.717	2506.717	2506.717	bb	240.3227	96.129
6...	RDX	8321 ICA-6 200ppb	LCMS73-76/10	200.000	6.929	1838.140	2506.717	183.321	bb	182.9139	91.457
7...	TATB	8321 ICA-6 200ppb	LCMS73-76/10	200.000	6.980	667.694	667.694	667.694	bd	236.4748	118.237
8...	1,2-Dinitrobenzene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	8.716	91406.023	4636.270	985.771	bb	198.1924	99.096
9...	1,3,5-Trinitrobenzene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	9.085	81797.586	4636.270	882.149	bb	198.8197	99.410
10...	Tetryl	8321 ICA-6 200ppb	LCMS73-76/10	200.000	11.387	40774.305	4636.270	439.732	bb	196.3672	98.184
11...	1,3-Dinitrobenzene D4	8321 ICA-6 200ppb	LCMS73-76/10	200.000	10.448	4636.270	4636.270	4636.270	db	54.4954	108.991
12...	3,5-Dinitroaniline	8321 ICA-6 200ppb	LCMS73-76/10	200.000	11.132	71280.063	4636.270	768.722	bb	197.3696	98.685
13...	1,3-Dinitrobenzene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	10.564	18943.668	4636.270	204.299	bb	190.2726	95.136
14...	Nitrobenzene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	11.958	486.777	4636.270	5.034	dd	178.3688	89.184
15...	Nitroglycerin	8321 ICA-6 200ppb	LCMS73-76/10	200.000	12.999	1023.548	4636.270	11.038	bb	176.0089	88.004
16...	2,4,6-Trinitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	13.574	223548.031	4636.270	2410.861	bb	201.2861	100.643
17...	2,4-Dinitrotoluene D3	8321 ICA-6 200ppb	LCMS73-76/10	200.000	15.433	4272.826	4272.826	4272.826	bb	25.4100	101.640
18...	2,4-Dinitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	15.505	13691.772	4272.826	80.110	MM	203.8185	101.909
19...	2,6-Dinitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	15.114	71417.953	4272.826	417.861	MM	204.5439	102.272
20...	2-Amino-4,6-dinitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	13.950	25668.252	4272.826	150.183	db	189.9429	94.971
21...	4-Amino-2,6-dinitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	13.389	25316.117	4272.826	148.123	bd	232.1141	116.057
22...	2-Nitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	18.350	1080.919	4272.826	6.324	bb	195.4531	97.727
23...	4-Nitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	19.663	447.480	4272.826	2.618	bd	202.6573	101.329
24...	3-Nitrotoluene	8321 ICA-6 200ppb	LCMS73-76/10	200.000	20.958	628.371	4272.826	3.677	db	195.3953	97.698
25...	PETN	8321 ICA-6 200ppb	LCMS73-76/10	200.000	22.477	2483.938	4272.826	14.533	bb	205.1509	102.575
26...	Tri-o-cresyl phosphate	8321 ICA-6 200ppb	LCMS73-76/10	200.000	33.867	46185.445	46185.445	46185.445	bd	42.1267	105.317

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL\8321\_ICAL\_033110.qld

Last Altered: Thursday, April 01, 2010 08:59:58 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:04 Central Daylight Time

89

Name: R03311016

Date: 31-Mar-2010

Time: 16:56:41

ID: LCMS73-76/10

Description: 8321 ICA-6 200ppb

User: WH

Vial: 1:7

Instrument: LCMSMSR

Task:

Trace	Sec Trace	SN	Height/Area	Acq Date	Acq Time	Initial Wt Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	5281.8...	2.875	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
2	167.6 > 121.7	788.172	2.396	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
3	362.5 > 150.5	92.400	2.552	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
4	354.5 > 146.5	266.539	2.449	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
5	283.5 > 46	556.891	3.353	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
6	280.5 > 46	247.645	3.290	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
7	256.6 > 204.5	98.589	3.443	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
8	167.5 > 137.5	6817.2...	3.572	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
9	212.5 > 182.5	17049....	3.689	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
10	240.6 > 212.4	3383.5...	2.554	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
11	171.5 > 141.6	418.462	3.516	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
12	182.5 > 152.5	2899.9...	2.522	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
13	167.5 > 137.5	1326.7...	3.354	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
14	122.5 > 46	213.346	2.342	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
15	240.5 > 61.9	170.458	2.579	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
16	226.5 > 209.5	8083.0...	2.511	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
17	184.6 > 167.6	898.114	2.355	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
18	181.6 > 151.6	1147.1...	3.524	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
19	181.6 > 151.6	3941.8...	2.321	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
20	196.6 > 46	1045.2...	2.395	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
21	196.6 > 46	1020.8...	2.372	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
22	136.7 > 46	337.383	3.112	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
23	136.7 > 46	63.284	1.410	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
24	136.7 > 46	87.455	1.388	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
25	284.6 > 61.9	2250.8...	1.283	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000
26	369.1 > 91.3	5070.9...	8.364	31-Mar-10	16:56:41	1.000	1.000	1.000	1.000	1.000

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

TestAmerica INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R033110\_LANL\8321\_ICV\_033110.qld

Last Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

89

Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_PPB\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurvedB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

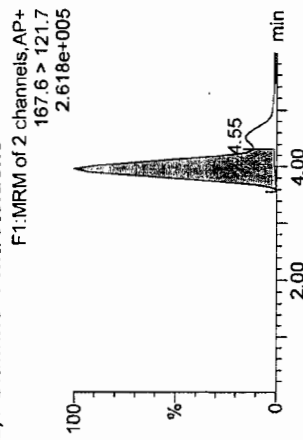
User: WH

Vial: 1:12

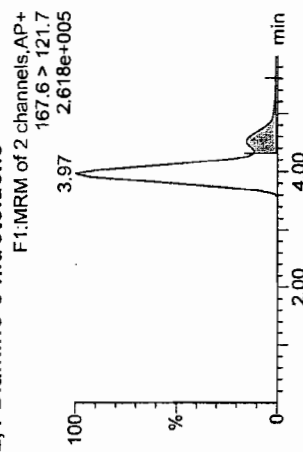
Instrument: LCMSMSR

Task:

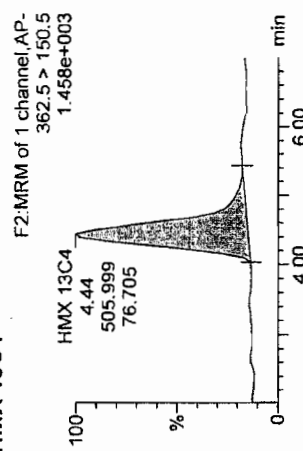
## 2,6-Diamino-4-nitrotoluene



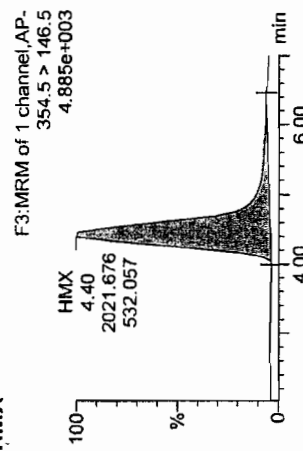
## 2,4-Diamino-6-nitrotoluene



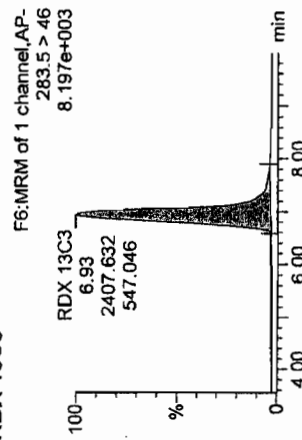
## HMX 13C4



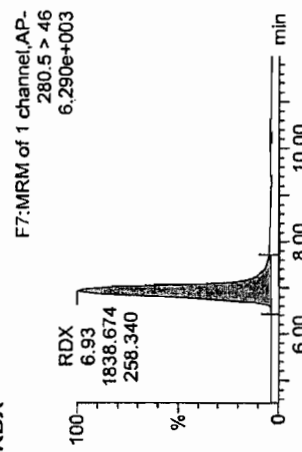
## HMX



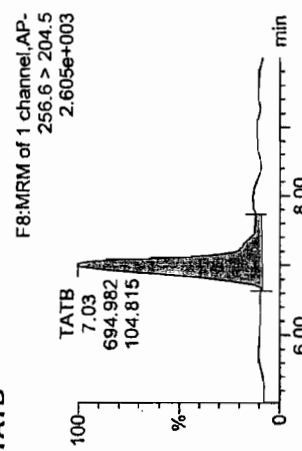
## RDX 13C3



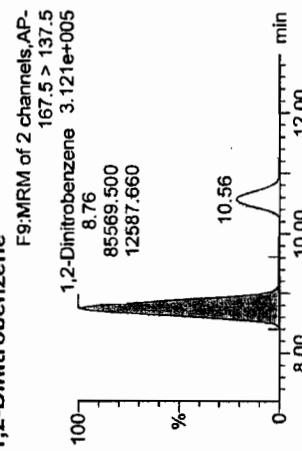
## RDX



## TATB



## 1,2-Dinitrobenzene



527

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Method 8321, Explosives By LCMSMS

1145

LOT # 1489

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\R033110\_LANL8321\_ICV\_033110.qld

Last Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

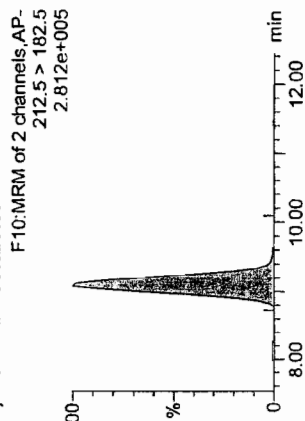
User: WH

Vial: 1:12

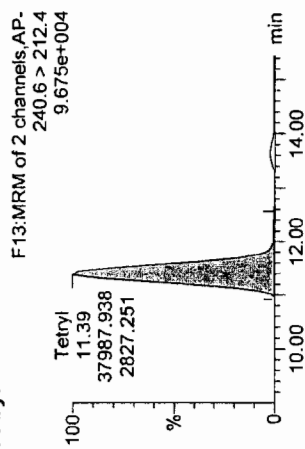
Instrument: LCMSMSR

Task:

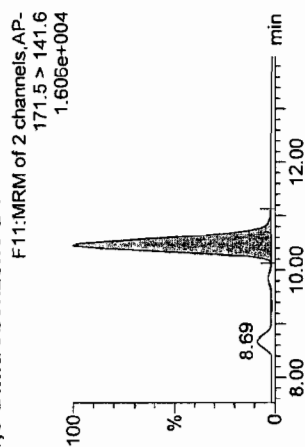
## 1,3,5-Trinitrobenzene



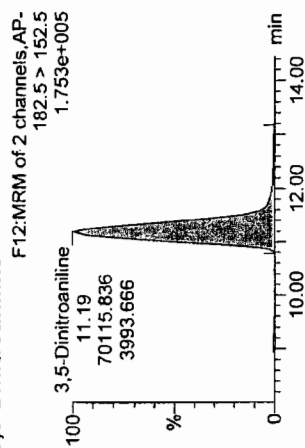
## Tetryl



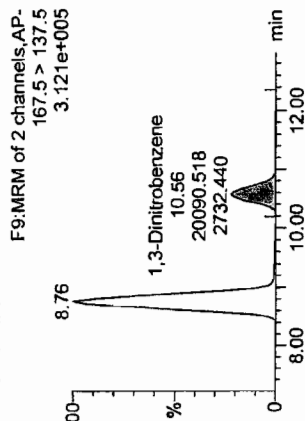
## 1,3-Dinitrobenzene D4



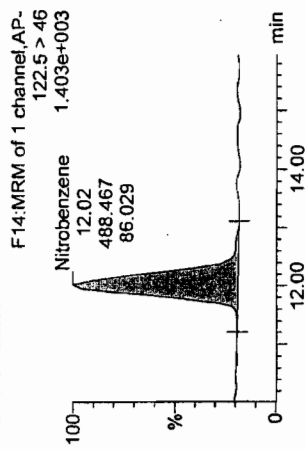
## 3,5-Dinitroaniline



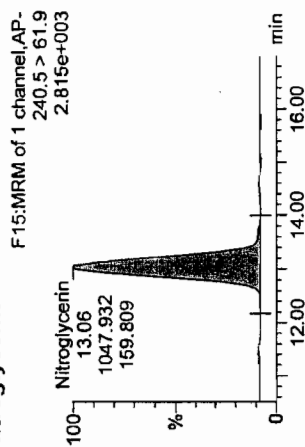
## 1,3-Dinitrobenzene



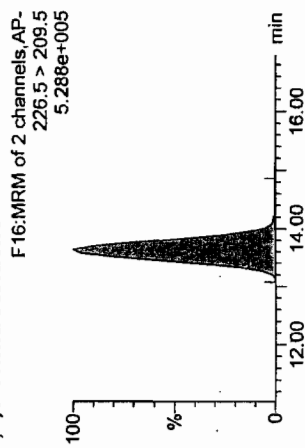
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



528 O 1145

Method 8321, Explosives By LCMSMS

LOT

#

Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSetSavedExp\033110\_LANL8321\_ICV\_033110.qld

Last Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

# 9

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

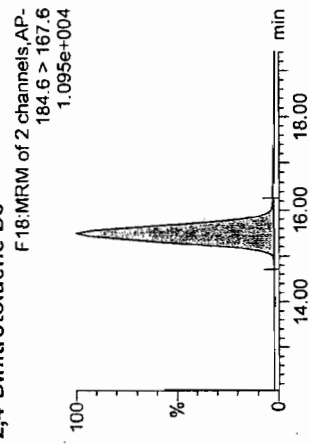
User: WH

Vial: 1:12

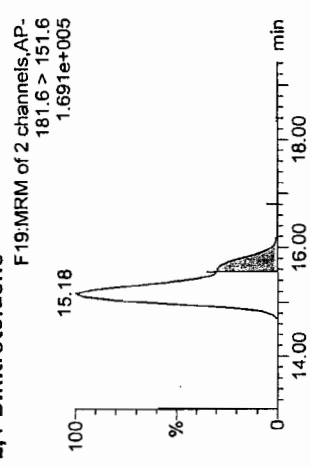
Instrument: LCMSMSR

Task:

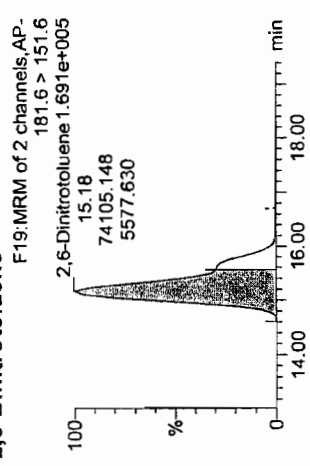
2,4-Dinitrotoluene D3



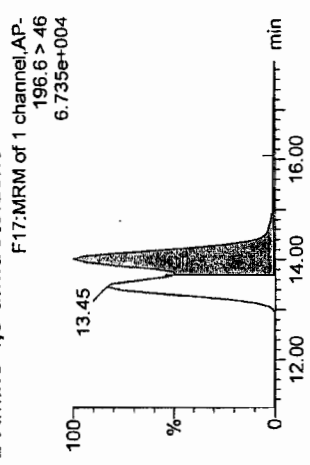
2,4-Dinitrotoluene



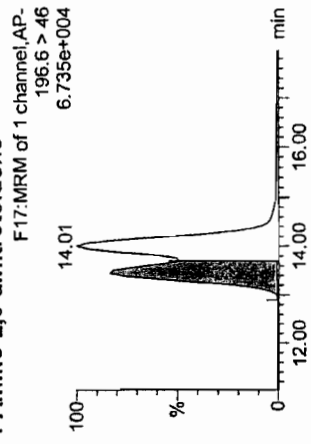
2,6-Dinitrotoluene



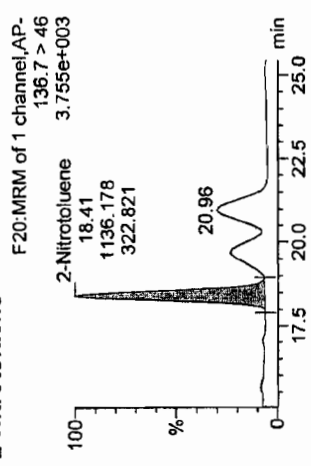
2-Amino-4,6-dinitrotoluene



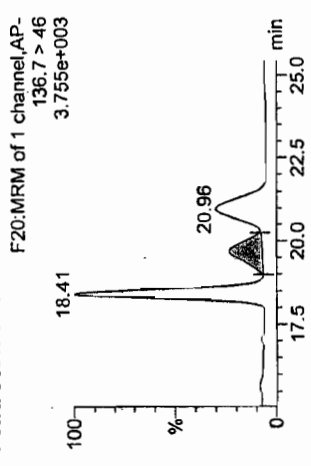
4-Amino-2,6-dinitrotoluene



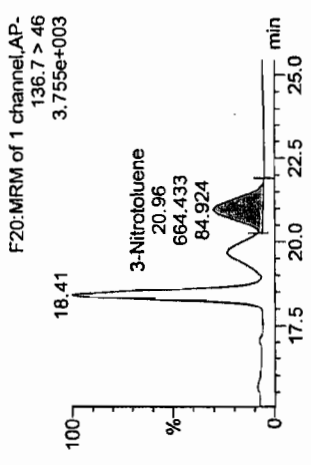
2-Nitrotoluene



4-Nitrotoluene



3-Nitrotoluene



529

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExpR033110\_LANL8321\_ICV\_033110.qid

Test Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

00

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

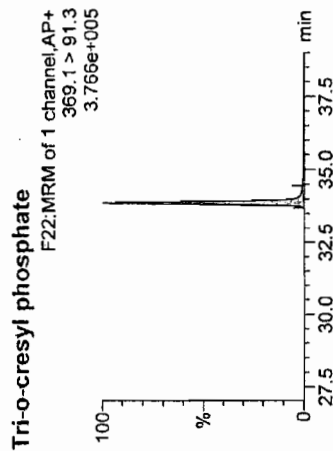
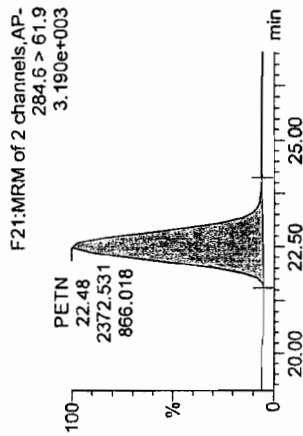
User: WH

Vial: 1:12

Instrument: LCMSMSR

Task:

PETN



530

0

Method 8321, Explosives By LCMSMS

1145



LOT #

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R033110\_LANL\8321\_ICV\_033110.qld

Last Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

User: WH

Vial: 1:12

Instrument: LCMSMSR

Task:

1. Peak Not Found

2. Incomplete Integration

3. Wrong Peak

4. Other

WTH  
4/1/10

#	Name	Sample Text	ID	Std. Conc.	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 ICV 200ppb		200.000	3.966	89989.922		89989.922	bd	204.1954	102.098
2	2... 2,4-Diamino-6-nitrotoluene	8321 ICV 200ppb		200.000	4.546	16551.021		16551.021	db	209.2564	104.628
3	3... HMX 13C4	8321 ICV 200ppb		200.000	4.441	505.999		505.999	bb	489.3590	97.872
4	4... HMX	8321 ICV 200ppb		200.000	4.397	2021.676	505.999	1997.708	bb	227.9386	113.969
5	5... RDX 13C3	8321 ICV 200ppb		200.000	6.925	2407.632		2407.632	bb	230.8232	92.329
6	6... RDX	8321 ICV 200ppb		200.000	6.928	1838.674		190.921	bd	190.4970	95.248
7	7... TATB	8321 ICV 200ppb		200.000	7.027	694.982		694.982	dd	246.1393	123.070
8	8... 1,2-Dinitrobenzene	8321 ICV 200ppb		200.000	8.761	85569.500	4505.900	949.527	bb	190.9055	95.453
9	9... 1,3,5-Trinitrobenzene	8321 ICV 200ppb		200.000	9.085	77142.195	4505.900	856.013	bb	192.9293	96.465
10	1... Tetryl	8321 ICV 200ppb		200.000	11.387	37987.938	4505.900	421.536	bb	188.2414	94.121
11	1... 1,3-Dinitrobenzene D4	8321 ICV 200ppb		200.000	10.448	4505.900		4505.900	bb	52.9630	105.926
12	1... 3,5-Dinitroaniline	8321 ICV 200ppb		200.000	11.195	70115.836	4505.900	778.045	bb	199.7631	99.882
13	1... 1,3-Dinitrobenzene	8321 ICV 200ppb		200.000	10.564	20090.518	4505.900	222.936	bb	207.6302	103.815
14	1... Nitrobenzene	8321 ICV 200ppb		200.000	12.020	488.467	4505.900	5.420	db	192.5339	96.267
15	1... Nitroglycerin	8321 ICV 200ppb		200.000	13.061	1047.932	4505.900	11.828	bb	185.4157	92.708
16	1... 2,4,6-Trinitrotoluene	8321 ICV 200ppb		200.000	13.636	212895.969	4505.900	2360.194	bb	197.0559	98.528
17	1... 2,4-Dinitrotoluene D3	8321 ICV 200ppb		200.000	15.498	4509.133		4509.133	bd	26.8153	107.261
18	1... 2,4-Dinitrotoluene	8321 ICV 200ppb		200.000	15.567	13999.938	4509.133	77.620	MM	197.4841	98.742
19	1... 2,6-Dinitrotoluene	8321 ICV 200ppb		200.000	15.179	74105.148	4509.133	410.861	MM	201.1174	100.559
20	2... 2-Amino-4,6-dinitrotoluene	8321 ICV 200ppb		200.000	14.012	30114.627	4509.133	166.965	db	211.1672	105.584
21	2... 4-Amino-2,6-dinitrotoluene	8321 ICV 200ppb		200.000	13.451	21758.328	4509.133	120.635	bd	189.0393	94.520
22	2... 2-Nitrotoluene	8321 ICV 200ppb		200.000	18.413	1136.178	4509.133	6.299	bb	194.6785	97.339
23	2... 4-Nitrotoluene	8321 ICV 200ppb		200.000	19.663	416.572	4509.133	2.310	bd	178.7495	89.375
24	2... 3-Nitrotoluene	8321 ICV 200ppb		200.000	20.957	664.433	4509.133	3.684	db	195.7814	97.891
25	2... PETN	8321 ICV 200ppb		200.000	22.477	2372.531	4509.133	13.154	bb	185.6807	92.840
26	2... Tri-o-cresyl phosphate	8321 ICV 200ppb		200.000	33.867	44462.316		44462.316	bb	40.5327	101.332

Method 8321, Explosives By LCMSMS

1145

LOT #

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Data Set: C:\MassLynx\Explosives\PRO\DataSetSavedExp\R033110\_LANL8321\_ICV\_033110.qld

Last Altered: Thursday, April 01, 2010 09:02:22 Central Daylight Time

Printed: Thursday, April 01, 2010 10:40:57 Central Daylight Time

Name: R03311017

Date: 31-Mar-2010

Time: 17:36:49

ID:

Description: 8321 ICV 200ppb

User: WH

Vial: 1:12

Instrument: LCMSMSR

Task:

Trace	Sec Trace	SN	Height/Area	Acq Date	Acq Time	Initial Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	5809.0...	2.889	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
2	167.6 > 121.7	862.190	2.332	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
3	362.5 > 150.5	76.705	2.460	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
4	354.5 > 146.5	532.057	2.320	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
5	283.5 > 46	547.046	3.298	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
6	280.5 > 46	258.340	3.297	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
7	256.6 > 204.5	104.815	3.435	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
8	167.5 > 137.5	12587.0...	3.642	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
9	212.5 > 182.5	6861.0...	3.639	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
10	240.6 > 212.4	2827.2...	2.539	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
11	171.5 > 141.6	939.833	3.497	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
12	182.5 > 152.5	3993.6...	2.494	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
13	167.5 > 137.5	2732.4...	3.367	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
14	122.5 > 46	86.029	2.336	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
15	240.5 > 61.9	159.809	2.482	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
16	226.5 > 209.5	9634.5...	2.483	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
17	184.6 > 167.6	714.270	2.374	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
18	181.6 > 151.6	1634.4...	3.530	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
19	181.6 > 151.6	5577.6...	2.276	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
20	196.6 > 46	898.438	2.226	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
21	196.6 > 46	748.073	2.565	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
22	136.7 > 46	322.821	3.098	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
23	136.7 > 46	57.502	1.505	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
24	136.7 > 46	84.924	1.394	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
25	284.6 > 61.9	866.018	1.274	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000
26	369.1 > 91.3	5582.1...	8.446	31-Mar-10	17:36:49	1.000	1.000	1.000	1.000	1.000

Method 8321, Explosives By LCMSMS

Of 11145

# Quantify Sample Report

TestAmerica, INC. St. Louis

MassLynx 4.1

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CRI\_041410.qld

Last Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

Method: C:\MassLynx\Explosives.PRO\MethDB\8321\_CRI\_MAR2010.mdb 15 Apr 2010 11:50:16  
Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141001

Date: 14-Apr-2010

Time: 19:20:07

ID: 8321 CRI

Description: INST BLK

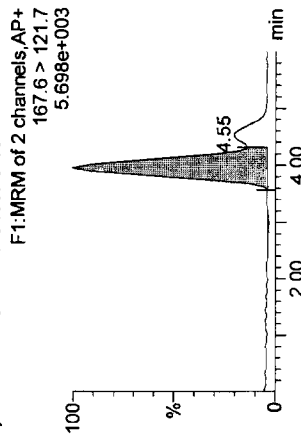
User: WH

Vial: 1:47

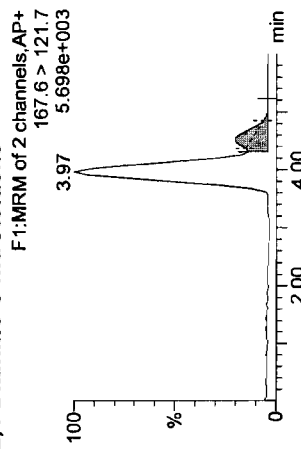
Instrument: LCMSMSR

Task:

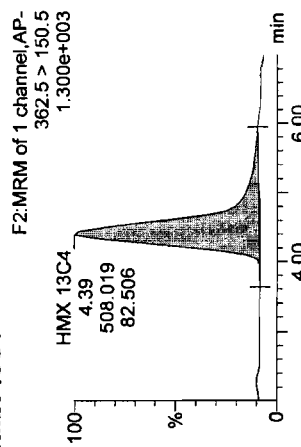
## 2,6-Diamino-4-nitrotoluene



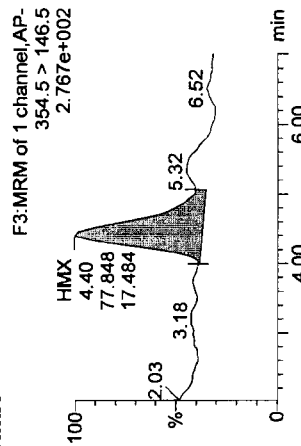
## 2,4-Diamino-6-nitrotoluene



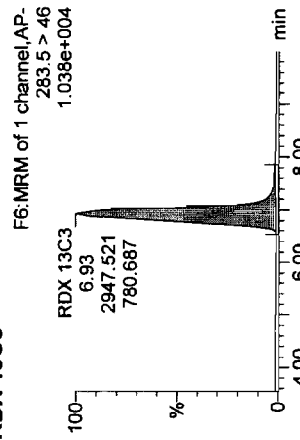
## HMX 13C4



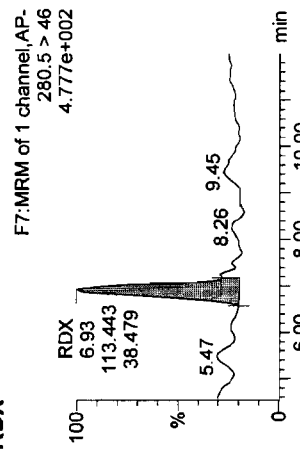
## HMX



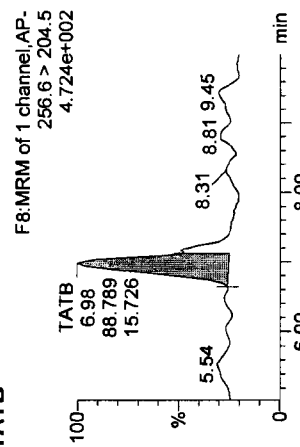
## RDX 13C3



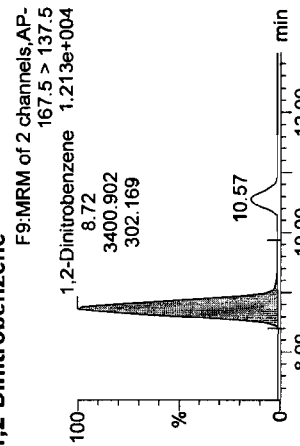
## RDX



## TATB



## 1,2-Dinitrobenzene



5333

Method 8321, Explosives By LCMSMS

1145

LOT #

# Quantify Sample Report      MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_CRI\_041410.qld

Last Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

489

Name: R04141001

Date: 14-Apr-2010

Time: 19:20:07

ID: 8321 CRI

Description: INST BLK

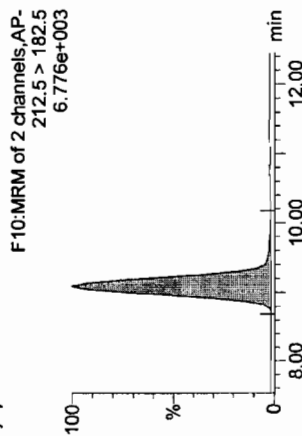
User: WH

Vial: 1:47

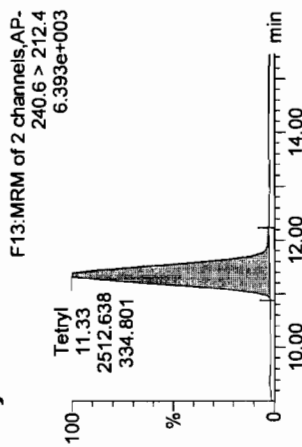
Instrument: LCMSMSR

Task:

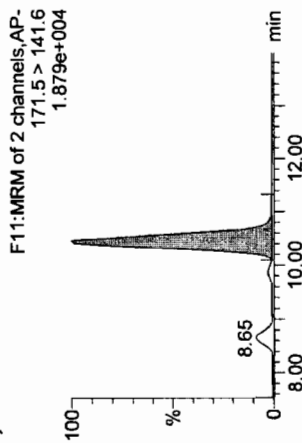
## 1,3,5-Trinitrobenzene



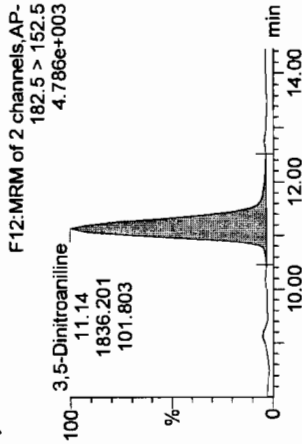
## Tetryl



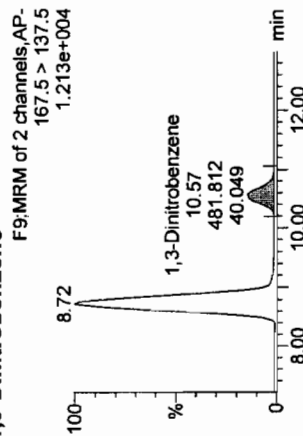
## 1,3-Dinitrobenzene D4



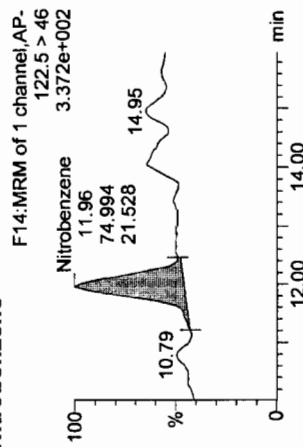
## 3,5-Dinitroaniline



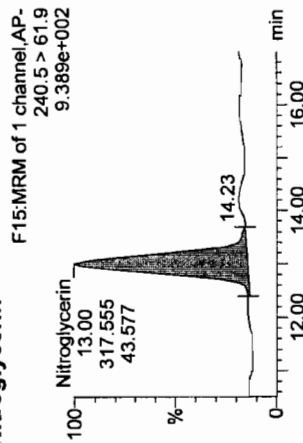
## 1,3-Dinitrobenzene



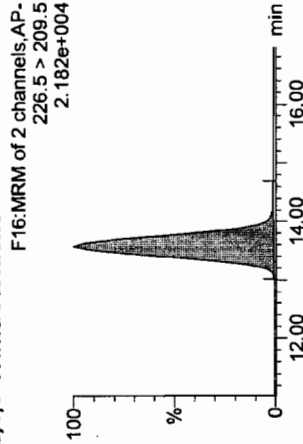
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



534

Method 8321, Explosives By LCMSMS

1145

LOT

## # Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CRI\_041410.qld

Last Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

Name: R04141001

Date: 14-Apr-2010

Time: 19:20:07

ID: 8321 CRI

Description: INST BLK

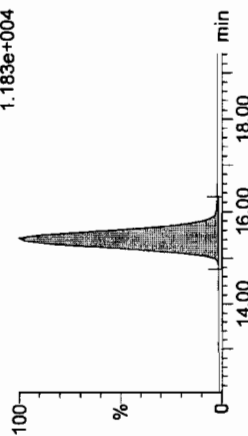
User: WH

Vial: 1:47

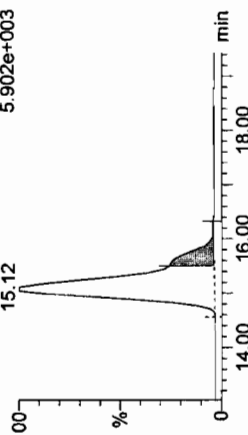
Instrument: LCMSMSR

Task:

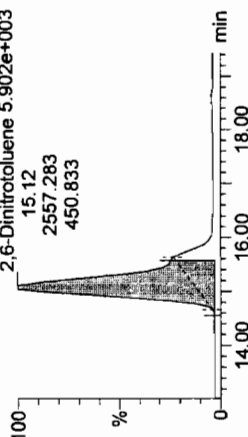
## 2,4-Dinitrotoluene D3

F18:MRM of 2 channels,AP-  
184.6 > 167.6  
1.183e+004

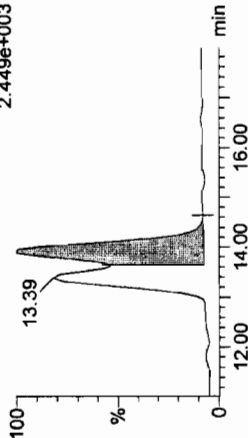
## 2,4-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
5.902e+003

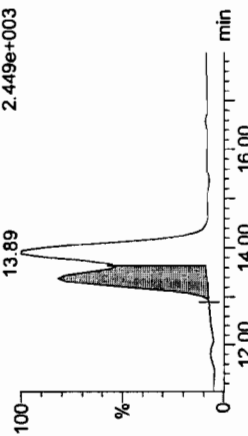
## 2,6-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6 > 151.6  
5.902e+003

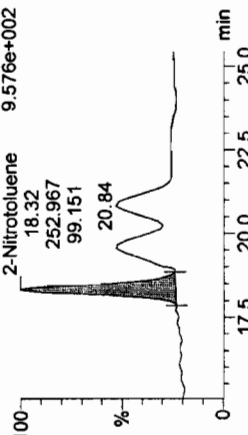
## 2-Amino-4,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
2.449e+003

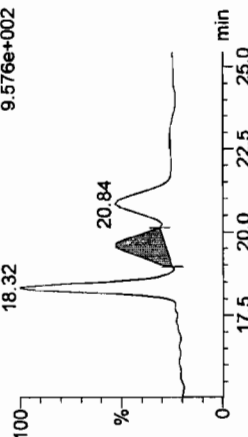
## 4-Amino-2,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6 > 46  
2.449e+003

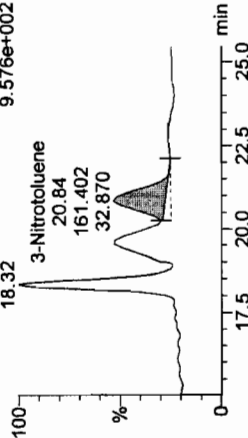
## 2-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
9.576e+002

## 4-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
9.576e+002

## 3-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7 > 46  
9.576e+002

535

Method 8321, Explosives By LCMSMS

1145

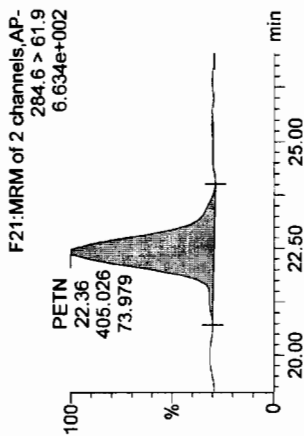
LOT #

**Quantify Sample Report** **MassLynx 4.1**

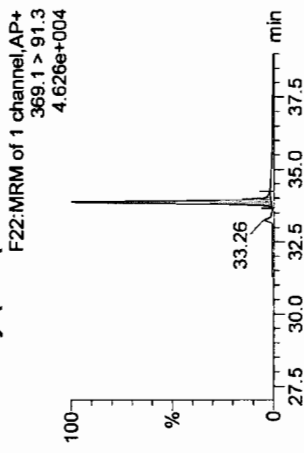
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CRI\_041410.qld  
 Last Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

**Name:** R04141001  
**Date:** 14-Apr-2010  
**Time:** 19:20:07  
**ID:** 8321 CRI  
**Description:** INST BLK  
**User:** WH  
**Vial:** 1:47  
**Instrument:** LCMSMSR  
**Task:**

**PETN**



**Tri-o-cresyl phosphate**



LOT

#

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL\8321\_CRI\_041410.qld

Last Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

89

Name: R04141001

Date: 14-Apr-2010

Time: 19:20:07

ID: 8321 CRI

Description: INST BLK

User: WH

Vial: 1:47

Instrument: LCMSMSR

Task:

1. Peak Not Found

② Incomplete Integration

3. Wrong Peak

4. Other

wt  
4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	INST BLK	8321 CRI	5.000	3.967	1911.973		1911.973	dd	4.3384	86.769
2	2... 2,4-Diamino-6-nitrotoluene	INST BLK	8321 CRI	5.000	4.548	350.659		350.659	MM	4.4334	88.668
3	3... HMX 13C4	INST BLK	8321 CRI	5.000	4.385	508.019		508.019	bb	491.3125	98.263
4	4... HMX	INST BLK	8321 CRI	5.000	4.398	77.848	508.019	76.619	dd	8.7423	87.423
5	5... RDX 13C3	INST BLK	8321 CRI	5.000	6.928	2947.521		2947.521	bb	282.5832	113.033
6	6... RDX	INST BLK	8321 CRI	5.000	6.931	113.443		9.622	bd	9.6005	96.005
7	7... TATB	INST BLK	8321 CRI	5.000	6.983	88.789		88.789	bd	31.4461	78.615
8	8... 1,2-Dinitrobenzene	INST BLK	8321 CRI	5.000	8.719	3400.902		31.955	bb	6.4247	128.494
9	9... 1,3,5-Trinitrobenzene	INST BLK	8321 CRI	5.000	9.088	1854.783		17.428	bb	3.9279	78.558
10	1... Tetrayl	INST BLK	8321 CRI	5.000	11.328	2512.638		23.609	bb	10.5429	105.429
11	1... 1,3-Dinitrobenzene D4	INST BLK	8321 CRI	5.000	10.452	5321.349		5321.349	db	62.5480	125.096
12	1... 3,5-Dinitroaniline	INST BLK	8321 CRI	5.000	11.136	1836.201		17.253	bd	4.4298	88.595
13	1... 1,3-Dinitrobenzene	INST BLK	8321 CRI	5.000	10.567	481.812		4.527	dd	4.2164	84.327
14	1... Nitrobenzene	INST BLK	8321 CRI	5.000	11.962	74.994		0.705	bd	19.6313	98.156
15	1... Nitroglycerin	INST BLK	8321 CRI	5.000	13.000	317.555		2.984	db	47.5765	95.153
16	1... 2,4,6-Trinitrotoluene	INST BLK	8321 CRI	5.000	13.575	8873.222		83.374	bb	6.9610	139.220
17	1... 2,4-Dinitrotoluene D3	INST BLK	8321 CRI	5.000	15.435	5007.338		5007.338	bd	29.7781	119.112
18	1... 2,4-Dinitrotoluene	INST BLK	8321 CRI	5.000	15.508	342.118		1.708	MM	4.3458	86.916
19	1... 2,6-Dinitrotoluene	INST BLK	8321 CRI	5.000	15.117	2557.283		12.768	MM	6.2498	124.996
20	2... 2-Amino-4,6-dinitrotoluene	INST BLK	8321 CRI	5.000	13.889	962.933		4.808	db	6.0804	121.608
21	2... 4-Amino-2,6-dinitrotoluene	INST BLK	8321 CRI	5.000	13.391	717.393		3.582	bd	5.6127	112.254
22	2... Nitrotoluene	INST BLK	8321 CRI	5.000	18.322	252.967		1.263	bb	39.0321	156.128
23	2... 4-Nitrotoluene	INST BLK	8321 CRI	5.000	19.548	162.138		0.810	bb	62.5233	156.308
24	2... 3-Nitrotoluene	INST BLK	8321 CRI	5.000	20.843	161.402		0.806	MM	42.8268	107.067
25	2... PETN	INST BLK	8321 CRI	5.000	22.362	405.026		2.022	bb	28.5446	142.723
26	2... Tr-n-cresyl phosphate	INST BLK	8321 CRI	5.000	33.877	5534.047		5534.047	bb	4.5204	90.408

Method 8321, Explosives By LCMSMS

1145

LOT

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## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL\8321\_CRI\_041410.qld

List Altered: Thursday, April 15, 2010 11:52:14 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:23 Central Daylight Time

489

Name: R04141001

Date: 14-Apr-2010

Time: 19:20:07

ID: 8321 CRI

Description: INST BLK

User: WH

Vial: 1:47

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt./Volume (g/L)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	212.798	2.862	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
2	167.6 > 121.7	35.583	2.809	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
3	362.5 > 150.5	82.506	2.337	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
4	354.5 > 146.5	17.484	2.235	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
5	283.5 > 46	780.687	3.478	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
6	280.5 > 46	38.479	3.385	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
7	256.6 > 204.5	15.726	3.987	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
8	167.5 > 137.5	302.169	3.530	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
9	212.5 > 182.5	207.320	3.592	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
10	240.6 > 212.4	334.801	2.488	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
11	171.5 > 141.6	286.970	3.498	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
12	182.5 > 152.5	101.803	2.526	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
13	167.5 > 137.5	40.049	3.302	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
14	122.5 > 46	21.528	2.440	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
15	240.5 > 61.9	43.577	2.538	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
16	226.5 > 209.5	1269.1...	2.440	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
17	184.6 > 167.6	983.845	2.326	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
18	181.6 > 151.6	100.316	3.727	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
19	181.6 > 151.6	450.833	2.241	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
20	196.6 > 46	106.544	2.354	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
21	196.6 > 46	84.502	2.506	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
22	136.7 > 46	99.151	2.898	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
23	136.7 > 46	32.329	1.474	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
24	136.7 > 46	32.870	1.506	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
25	284.6 > 61.9	73.979	1.158	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000
26	369.1 > 91.3	994.523	8.253	14-Apr-10	19:20:07	1.000	1.000	1.000	1.000	1.000

8

Method 8321, Explosives By LCMSMS

1145



## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SaveExp\R041410\_LANL\8321\_CCV03\_041410.qld

Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

88 9

Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_PP8\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141003

Date: 14-Apr-2010

Time: 20:40:19

ID: LCMS7376-10

Description: 8321 CCV 200ppb

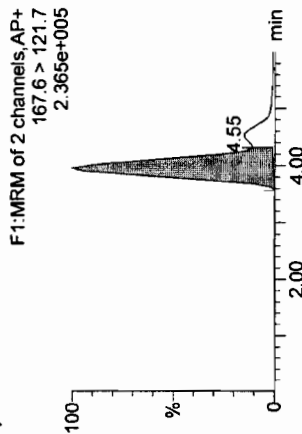
User: WH

Vial: 1:11

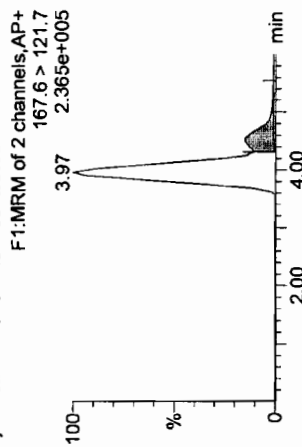
Instrument: LCMSMSR

Task:

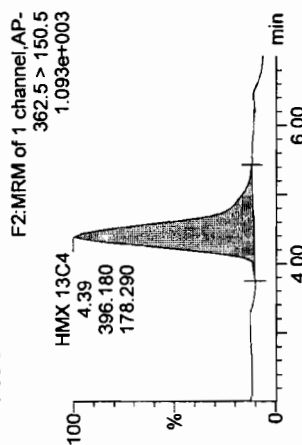
## 2,6-Diamino-4-nitrotoluene



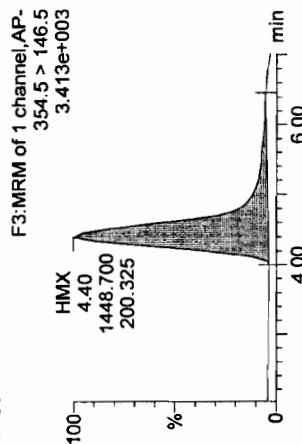
## 2,4-Diamino-6-nitrotoluene



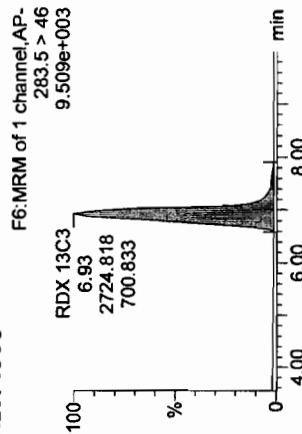
## HMX 13C4



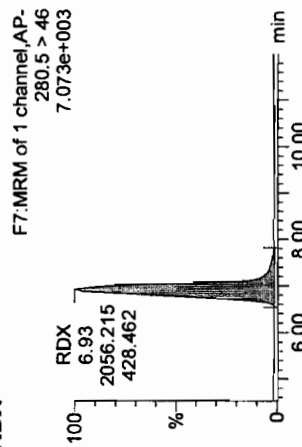
## HMX



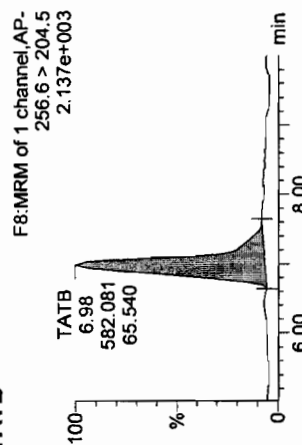
## RDX 13C3



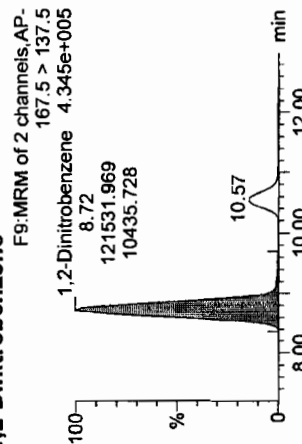
## RDX



## TATB



## 1,2-Dinitrobenzene



539

Method 8321, Explosives By LCMSMS

1145

LOT # 1489

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

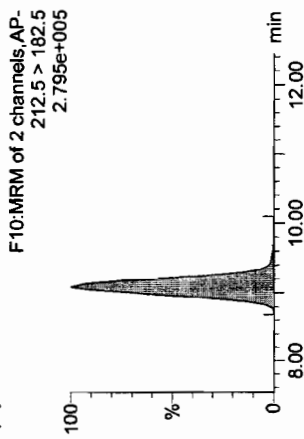
Dataset: C:\MassLynx\Explosives.PRO\data\SetSavedExp\R041410\_LANL18321\_CCV03\_041410.qld

Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time

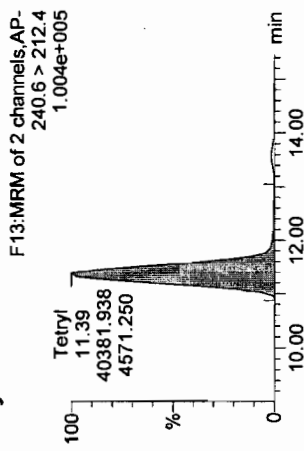
Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

Name: R04141003  
 Date: 14-Apr-2010  
 Time: 20:40:19  
 ID: LCMS7376-10  
 Description: 8321 CCV 200ppb  
 User: WH  
 Vial: 1:11  
 Instrument: LCMSMSR  
 Task:

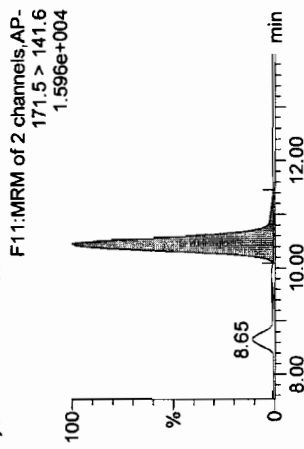
## 1,3,5-Trinitrobenzene



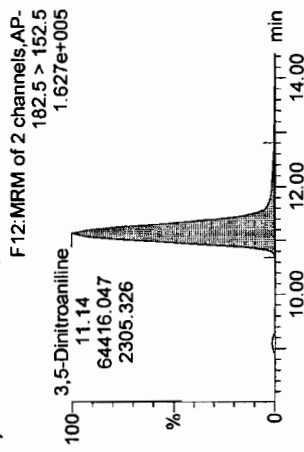
## Tetryl



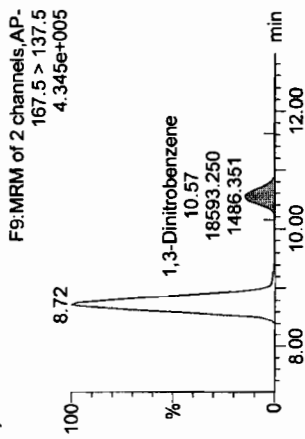
## 1,3-Dinitrobenzene D4



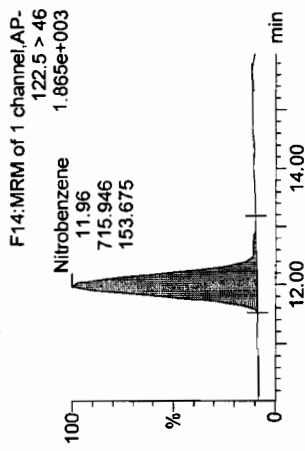
## 3,5-Dinitroaniline



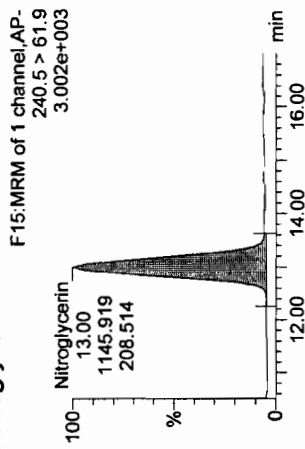
## 1,3-Dinitrobenzene



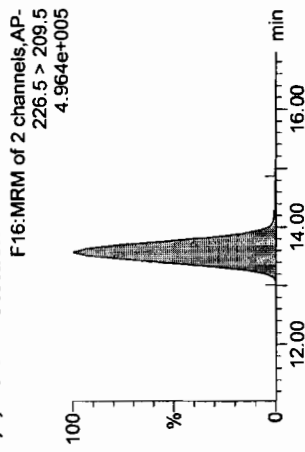
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



540 1145

Method 8321, Explosives By LCMSMS

LOT

# **Quantify Sample Report**

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\data\SetSavedExp\R041410\_LANL8321\_CCV03\_041410.qld

Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

489

Name: R04141003

Date: 14-Apr-2010

Time: 20:40:19

ID: LCMS7376-10

Description: 8321 CCV 200ppb

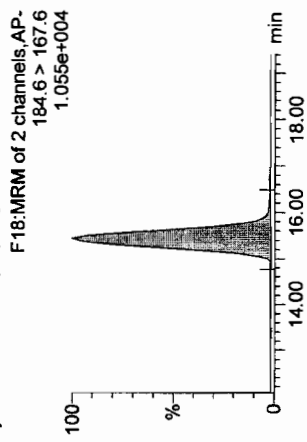
User: WH

Vial: 1:11

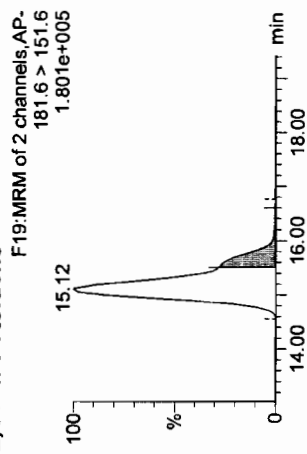
Instrument: LCMSMSR

Task:

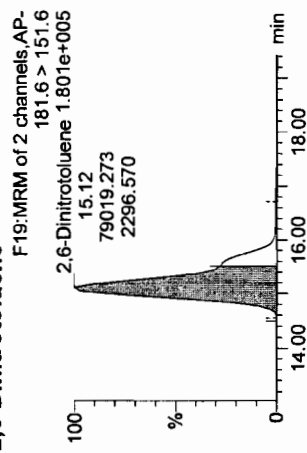
## **2,4-Dinitrotoluene D3**



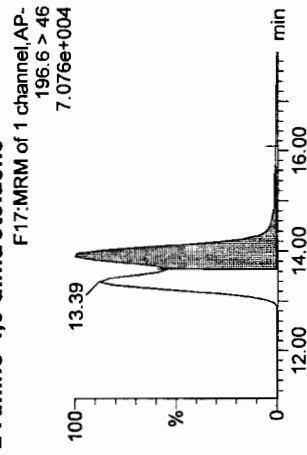
## **2,4-Dinitrotoluene**



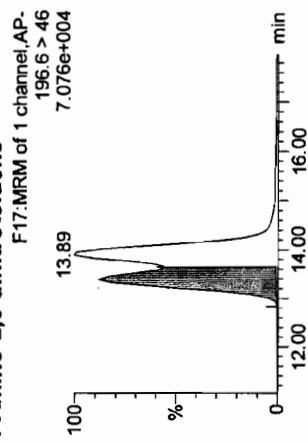
## **2,6-Dinitrotoluene**



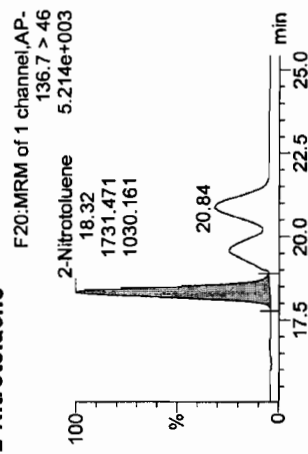
## **2-Amino-4,6-dinitrotoluene**



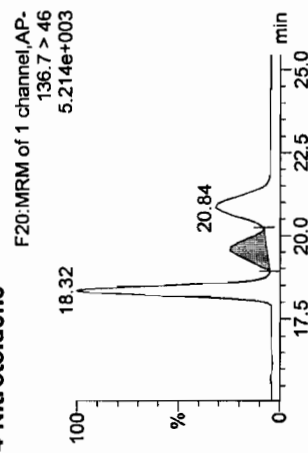
## **4-Amino-2,6-dinitrotoluene**



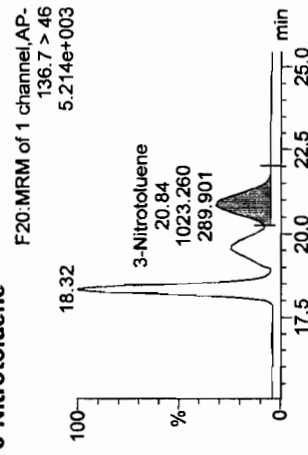
## **2-Nitrotoluene**



## **4-Nitrotoluene**



## **3-Nitrotoluene**



541

Method 8321, Explosives By LCMSMS

1145

LOT

#

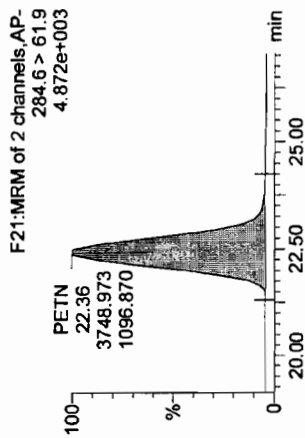
**Quantify Sample Report** **MassLynx 4.1**

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CCVO3\_041410.qld  
 Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

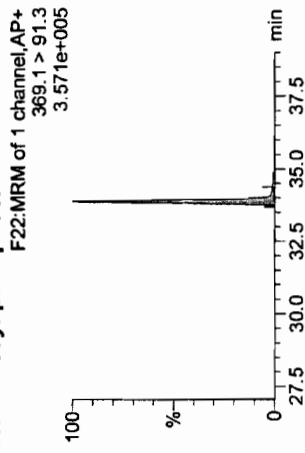
489

**Name:** R04141003  
**Date:** 14-Apr-2010  
**Time:** 20:40:19  
**ID:** LCMS7376-10  
**Description:** 8321 CCV 200ppb  
**User:** WH  
**Vial:** 1:11  
**Instrument:** LCMSMSR  
**Task:**

**PETN**



**Tri-o-cresyl phosphate**



542

Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SaveExp\041410\_LANL\8321\_CCV03\_041410.qld  
 Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

89

Name: R04141003

Date: 14-Apr-2010

Time: 20:40:19

ID: LCMS7376-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete Integration  
 3. Wrong Peak  
 4. Crier
- wt  
 4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det. Flags	ppb	% Rec
1	1... 2,6-Diamino-4-nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	3.967	82132.922		82132.922	bd	186.3671	93.184
2	2... 2,4-Diamino-6-nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	4.548	14237.019		14237.019	db	180.0003	90.000
3	3... HMX 13C4	8321 CCV 200ppb	LCMS7376-10	200.000	4.385	396.180		396.180	bb	383.1514	76.630
4	4... HMX	8321 CCV 200ppb	LCMS7376-10	200.000	4.398	1448.700	396.180	1828.336	bb	208.6133	104.307
5	5... RDX 13C3	8321 CCV 200ppb	LCMS7376-10	200.000	6.928	2724.818		2724.818	bb	261.2323	104.493
6	6... RDX	8321 CCV 200ppb	LCMS7376-10	200.000	6.931	2056.215	2724.818	188.656	dd	188.2368	94.118
7	7... TATB	8321 CCV 200ppb	LCMS7376-10	200.000	6.983	582.081		582.081	bb	206.1535	103.077
8	8... 1,2-Dinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	8.719	121531.969	4577.510	1327.490	bb	266.8961	133.448
9	9... 1,3,5-Trinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	9.088	76813.461	4577.510	839.031	bb	189.1018	94.551
10	1... Tetryl	8321 CCV 200ppb	LCMS7376-10	200.000	11.391	40381.938	4577.510	441.091	bb	196.9740	98.487
11	1... 1,3-Dinitrobenzene D4	8321 CCV 200ppb	LCMS7376-10	200.000	10.452	4577.510		4577.510	db	53.8048	107.610
12	1... 3,5-Dinitroaniline	8321 CCV 200ppb	LCMS7376-10	200.000	11.136	64416.047	4577.510	703.614	bb	180.6532	90.327
13	1... 1,3-Dinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	10.567	18593.250	4577.510	203.093	bb	189.1502	94.575
14	1... Nitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	11.962	715.946	4577.510	7.820	bb	280.5298	140.265
15	1... Nitroglycerin	8321 CCV 200ppb	LCMS7376-10	200.000	13.000	1145.919	4577.510	12.517	dd	199.5812	99.791
16	1... 2,4,6-Trinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.575	202401.344	4577.510	2210.824	bb	184.5847	92.292
17	1... 2,4-Dinitrotoluene D3	8321 CCV 200ppb	LCMS7376-10	200.000	15.436	4476.984		4476.984	dd	26.6241	106.496
18	1... 2,4-Dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	15.508	13180.937	4476.984	73.604	MM	187.2664	93.633
19	1... 2,6-Dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	15.117	79019.273	4476.984	441.253	MM	215.9941	107.997
20	2... 2-Amino-4,6-dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.889	31774.387	4476.984	177.432	db	224.4056	112.203
21	2... 4-Amino-2,6-dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.391	24855.795	4476.984	138.798	bd	217.5013	108.751
22	2... 2-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	18.322	1731.471	4476.984	9.669	bb	298.8094	149.405
23	2... 4-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	19.548	645.879	4476.984	3.607	MM	279.2445	139.622
24	2... 3-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	20.843	1023.260	4476.984	5.714	db	303.6782	151.839
25	2... PETN	8321 CCV 200ppb	LCMS7376-10	200.000	22.362	3748.973	4476.984	20.935	db	295.5117	147.756
26	2... Tri-o-cresyl phosphate	8321 CCV 200ppb	LCMS7376-10	200.000	33.877	42804.168		42804.168	bd	38.9987	97.497

Method 8321, Explosives By LCMSMS

1145

LOT

#

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_CCV03\_041410.qld

Last Altered: Thursday, April 15, 2010 11:39:47 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:33 Central Daylight Time

89

Name: R04141003

Date: 14-Apr-2010

Time: 20:40:19

ID: LCMS7376-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt./Volume (g/L)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	7515.3...	2.859	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
2	167.6 > 121.7	1082.3...	2.375	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
3	362.5 > 150.5	178.290	2.458	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
4	354.5 > 146.5	200.325	2.267	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
5	283.5 > 46	700.833	3.446	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
6	280.5 > 46	428.462	3.392	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
7	256.6 > 204.5	65.540	3.443	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
8	167.5 > 137.5	10435...	3.572	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
9	212.5 > 182.5	18142...	3.635	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
10	240.6 > 212.4	4571.2...	2.482	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
11	171.5 > 141.6	524.352	3.456	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
12	182.5 > 152.5	2305.3...	2.519	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
13	167.5 > 137.5	1486.3...	3.326	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
14	122.5 > 46	153.675	2.372	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
15	240.5 > 61.9	208.514	2.503	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
16	226.5 > 209.5	20618...	2.450	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
17	184.6 > 167.6	819.380	2.315	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
18	181.6 > 151.6	630.730	3.748	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
19	181.6 > 151.6	2296.5...	2.276	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
20	196.6 > 46	1456.5...	2.218	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
21	196.6 > 46	1279.3...	2.491	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
22	136.7 > 46	1030.1...	2.877	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
23	136.7 > 46	195.611	1.465	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
24	136.7 > 46	289.901	1.370	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
25	284.6 > 61.9	1096.8...	1.244	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000
26	369.1 > 91.3	5309.9...	8.326	14-Apr-10	20:40:19	1.000	1.000	1.000	1.000	1.000

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

Method: C:\MassLynx\Explosives.PRO\MethDBI8321MRM\_PP8\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurveDBI8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141014

Date: 15-Apr-2010

Time: 04:01:21

ID: LCMS73/76-10

Description: 8321 CCV 200ppb

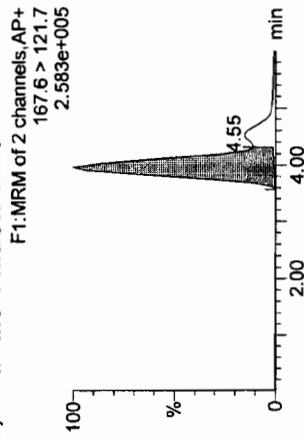
User: WH

Vial: 1:11

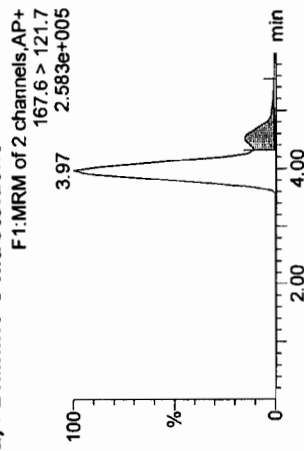
Instrument: LCMSMSR

Task:

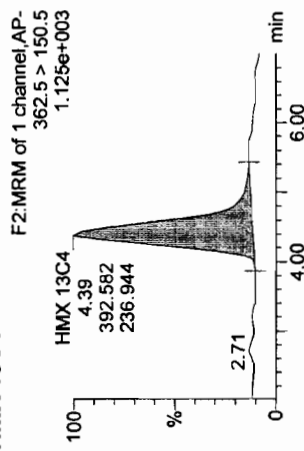
## 2,6-Diamino-4-nitrotoluene



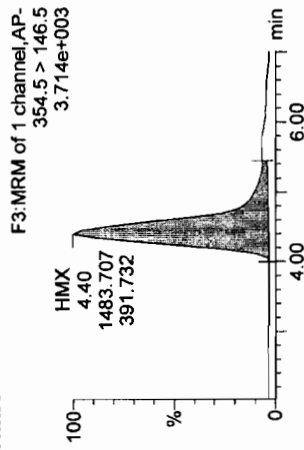
## 2,4-Diamino-6-nitrotoluene



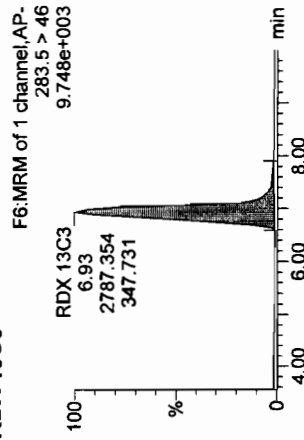
## HMX 13C4



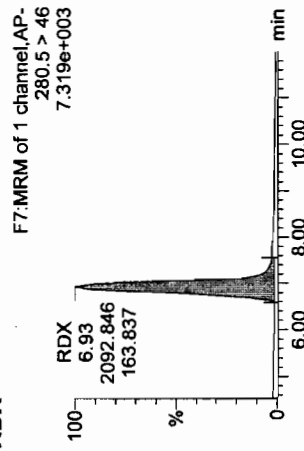
## HMX



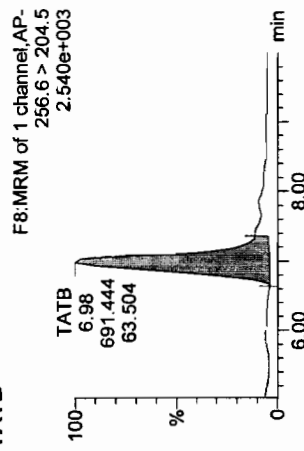
## RDX 13C3



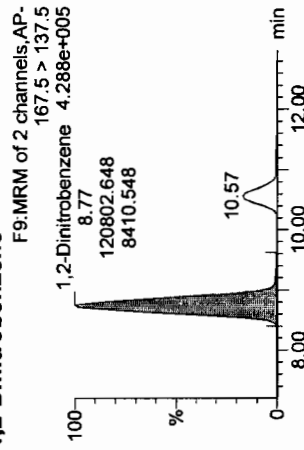
## RDX



## TATB



## 1,2-Dinitrobenzene



Method 8321, Explosives By LCMSMS

545

1145

LOT #

Quantify Sample Report

TestAmerica, INC. St. Louis

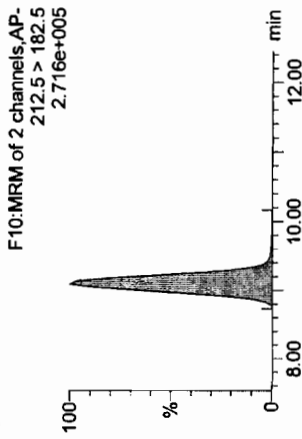
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

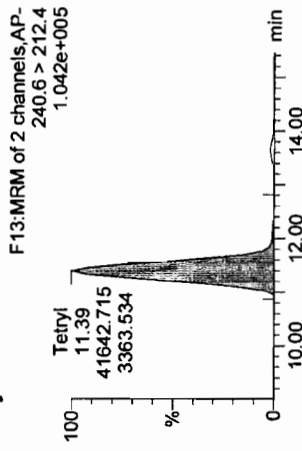
Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

Name: R04141014  
Date: 15-Apr-2010  
Time: 04:01:21  
ID: LCMS73/76-10  
Description: 8321 CCV 200ppb  
User: WH  
Vial: 1:11  
Instrument: LCMSMSR  
Task:

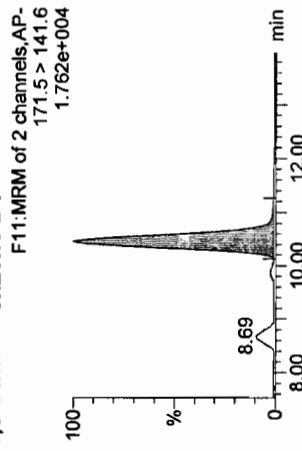
1,3,5-Trinitrobenzene



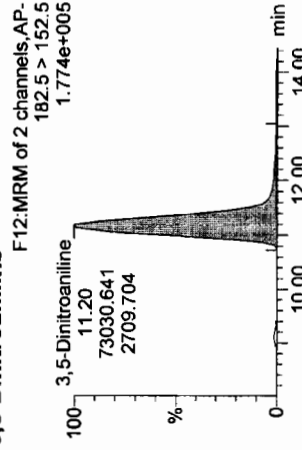
Tetryl



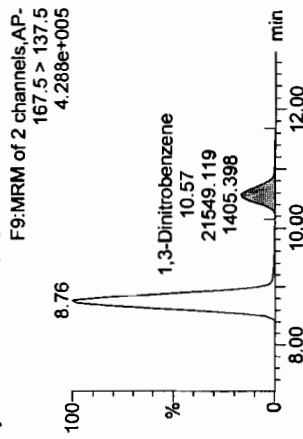
1,3-Dinitrobenzene D4



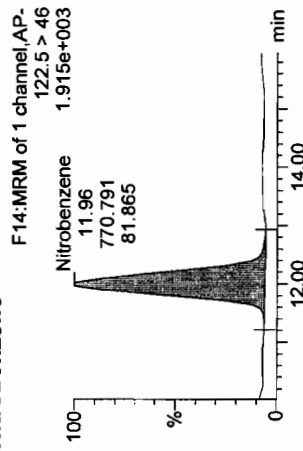
3,5-Dinitroaniline



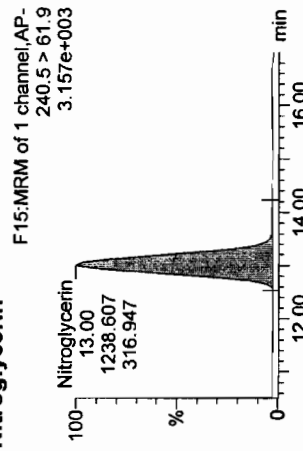
1,3-Dinitrobenzene



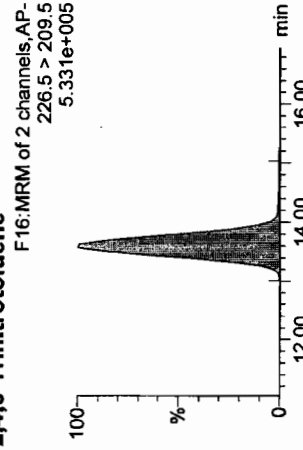
Nitrobenzene



Nitroglycerin



2,4,6-Trinitrotoluene



546

Method 8321, Explosives By LCMSMS

1145



LOT #

Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

Name: R04141014

Date: 15-Apr-2010

Time: 04:01:21

ID: LCMS73/76-10

Description: 8321 CCV 200ppb

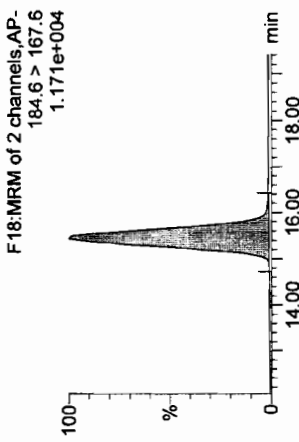
User: WH

Vial: 1:11

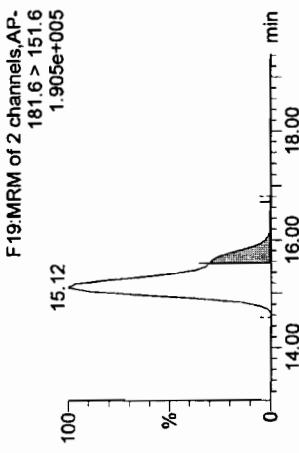
Instrument: LCMSMSR

Task:

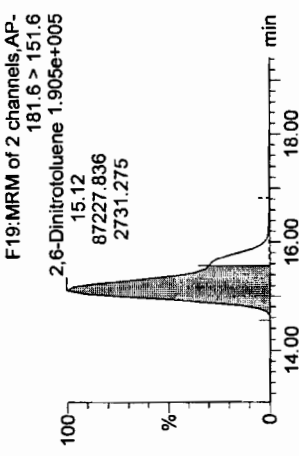
2,4-Dinitrotoluene D3



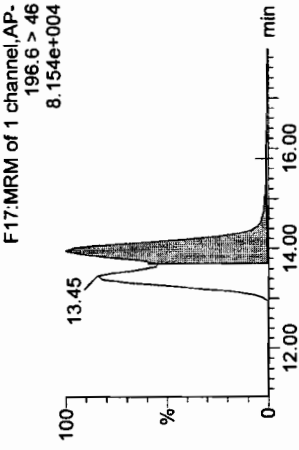
2,4-Dinitrotoluene



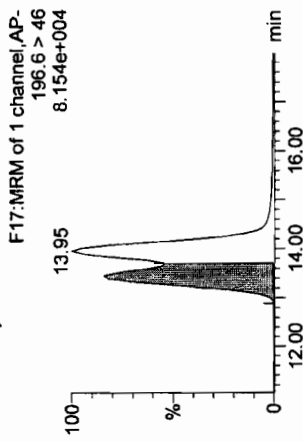
2,6-Dinitrotoluene



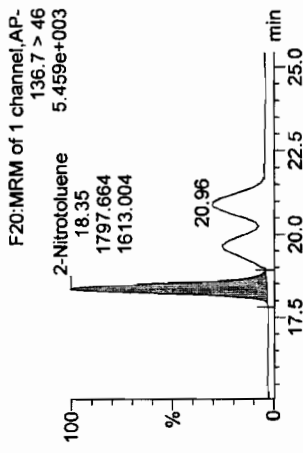
2-Amino-4,6-dinitrotoluene



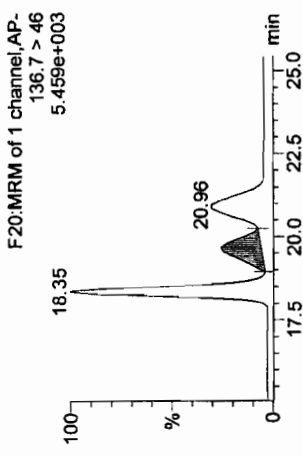
4-Amino-2,6-dinitrotoluene



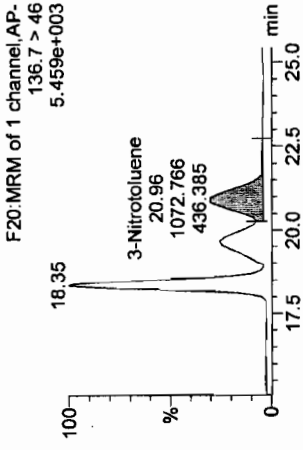
2-Nitrotoluene



4-Nitrotoluene



3-Nitrotoluene



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Method 8321, Explosives By LCMSMS

1145

LOT

#

**Quantify Sample Report** MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

89

**Name:** R04141014

**Date:** 15-Apr-2010

**Time:** 04:01:21

**ID:** LCMS7376-10

**Description:** 8321 CCV 200ppb

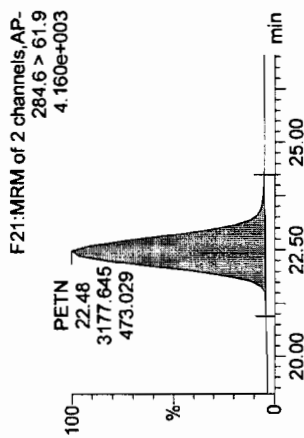
**User:** WH

**Vial:** 1:11

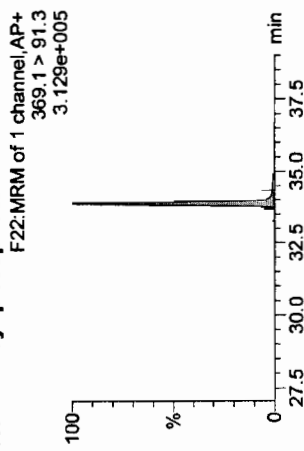
**Instrument:** LCMSMSR

**Task:**

**PETN**



**Tri-o-cresyl phosphate**



548

Method 8321, Explosives By LCMSMS

1145

LOT #

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL18321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

Name: R04141014

Date: 15-Apr-2010

Time: 04:01:21

ID: LCMS7376-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete integration  
 3. Wrong Peak  
 4. Other
- Wt  
 4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ppb	%Rec
1...	2,6-Diamino-4-nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	3.967	89450.930		89450.930	bd	202.9724	101.486
2...	2,4-Diamino-6-nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	4.548	15948.279		15948.279	db	201.6359	100.818
3...	HMX 13C4	8321 CCV 200ppb	LCMS7376-10	200.000	4.385	392.582		392.582	bb	379.6718	75.934
4...	HMX	8321 CCV 200ppb	LCMS7376-10	200.000	4.398	1483.707		1889.678	bd	215.6124	107.806
5...	RDH 13C3	8321 CCV 200ppb	LCMS7376-10	200.000	6.928	2787.354		2787.354	bb	267.2277	106.891
6...	RDH	8321 CCV 200ppb	LCMS7376-10	200.000	6.931	2092.846		187.709	bd	187.2917	93.646
7...	TATB	8321 CCV 200ppb	LCMS7376-10	200.000	6.983	691.444		691.444	bd	244.8862	122.443
8...	1,2-Dinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	8.765	120802.648		1218.029	bb	244.8886	122.444
9...	1,3,5-Trinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	9.088	75338.938		759.628	bb	171.2058	85.603
1...	Tetryl	8321 CCV 200ppb	LCMS7376-10	200.000	11.391	41642.715		419.875	bd	187.5000	93.750
1...	1,3-Dinitrobenzene D4	8321 CCV 200ppb	LCMS7376-10	200.000	10.452	4958.939		4958.939	bb	58.2881	116.576
1...	3,5-Dinitroaniline	8321 CCV 200ppb	LCMS7376-10	200.000	11.199	73030.641		736.353	bb	189.0589	94.529
1...	1,3-Dinitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	10.567	21549.119		217.275	bd	202.3586	101.179
1...	Nitrobenzene	8321 CCV 200ppb	LCMS7376-10	200.000	11.962	770.791		7.772	db	278.7507	139.375
1...	Nitroglycerin	8321 CCV 200ppb	LCMS7376-10	200.000	13.000	1238.607		12.489	bd	199.1314	99.566
1...	2,4,6-Trinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.575	222076.266		2239.151	bb	186.9498	93.475
1...	2,4-Dinitrotoluene D3	8321 CCV 200ppb	LCMS7376-10	200.000	15.436	5055.435		5055.435	bd	30.0641	120.256
1...	2,4-Dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	15.569	13792.938		68.208	MM	173.5391	86.770
1...	2,6-Dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	15.117	87227.836		431.357	MM	211.1499	105.575
2...	2-Amino-4,6-dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.952	35237.531		174.256	db	220.3885	110.194
2...	4-Amino-2,6-dinitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	13.453	28755.285		142.200	bd	222.8327	111.416
2...	2-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	18.353	1797.664		8.890	bb	274.7354	137.368
2...	4-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	19.666	744.477		3.682	MM	285.0479	142.524
2...	3-Nitrotoluene	8321 CCV 200ppb	LCMS7376-10	200.000	20.961	1072.766		5.305	db	281.9420	140.971
2...	PETN	8321 CCV 200ppb	LCMS7376-10	200.000	22.480	3177.645		15.714	bb	221.8169	110.908
2...	Tri-o-cresyl phosphate	8321 CCV 200ppb	LCMS7376-10	200.000	33.870	38736.848		38736.848	bd	35.2361	88.090

Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CCV14\_041410.qld

Last Altered: Thursday, April 15, 2010 11:42:30 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:42 Central Daylight Time

89

Name: R04141014

Date: 15-Apr-2010

Time: 04:01:21

ID: LCMS73/76-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	SIN	Height/Area	Acq. Date	Acq. Time	Initial Volume (μL)	Final Volume (mL)	Prep. Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	13066...	2.867	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	1930.9...	2.376	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	236.944	2.542	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
4	354.5 > 146.5	391.732	2.420	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
5	283.5 > 46	347.731	3.450	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
6	280.5 > 46	163.837	3.444	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	63.504	3.529	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	8410.5...	3.545	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	39089...	3.601	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	3363.5...	2.498	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	721.441	3.517	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	2709.7...	2.424	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	1405.3...	3.321	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
14	122.5 > 46	81.865	2.342	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	316.947	2.485	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	8064.2...	2.399	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	548.341	2.293	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	803.443	4.059	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	2731.2...	2.182	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
20	196.6 > 46	1527.9...	2.305	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
21	196.6 > 46	1284.1...	2.374	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
22	136.7 > 46	1613.0...	2.938	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
23	136.7 > 46	332.556	1.463	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
24	136.7 > 46	436.385	1.332	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	473.029	1.249	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	5035.3...	8.059	15-Apr-10	04:01:21	1.000	1.000	1.000	1.000	

Method 8321, Explosives By LCMSMS

1145

LOT #

Quantify Sample Report **MassLynx 4.1**

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CCV25\_041410.qld

Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

89

Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_PPB\_JULY2009.mdb 29 Mar 2010 10:27:10

Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141025

Date: 15-Apr-2010

Time: 11:22:32

ID: LCMS73/76-10

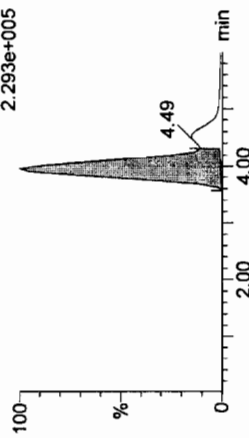
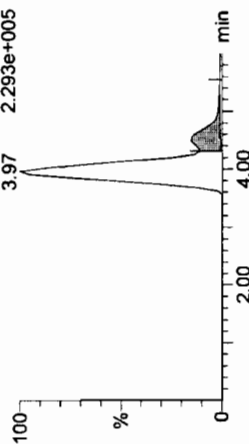
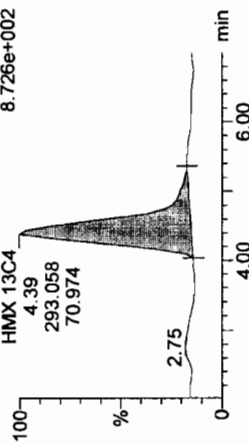
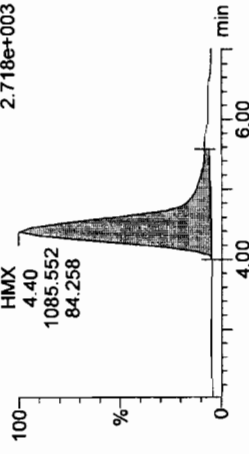
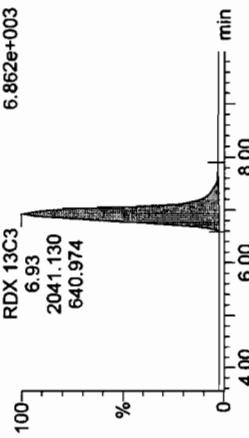
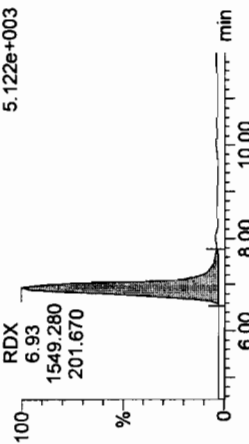
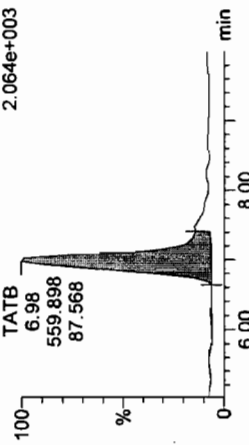
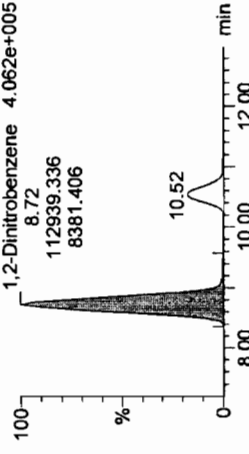
Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

**2,6-Diamino-4-nitrotoluene**F1:MRM of 2 channels,AP-  
167.6 > 121.7  
2.293e+005**2,4-Diamino-6-nitrotoluene**F1:MRM of 2 channels,AP-  
167.6 > 121.7  
2.293e+005**HMX 13C4**F2:MRM of 1 channel,AP-  
362.5 > 150.5  
8.726e+002**HMX**F3:MRM of 1 channel,AP-  
354.5 > 146.5  
2.718e+003**RDX 13C3**F6:MRM of 1 channel,AP-  
283.5 > 46  
6.862e+003**RDX**F7:MRM of 1 channel,AP-  
280.5 > 46  
5.122e+003**TATB**F8:MRM of 1 channel,AP-  
256.6 > 204.5  
2.064e+003**1,2-Dinitrobenzene**F9:MRM of 2 channels,AP-  
167.5 > 137.5  
4.062e+005

551 0 1145

Method 8321, Explosives By LCMSMS

LOT # 489

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_CCV25\_041410.qld

Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

Name: R04141025

Date: 15-Apr-2010

Time: 11:22:32

ID: LCMS7376-10

Description: 8321 CCV 200ppb

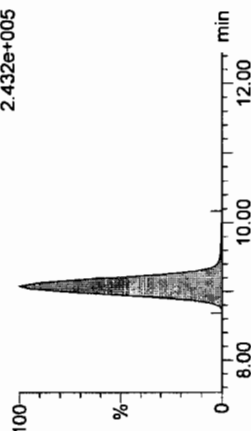
User: WH

Vial: 1:11

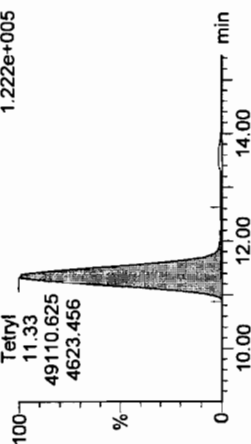
Instrument: LCMSMSR

Task:

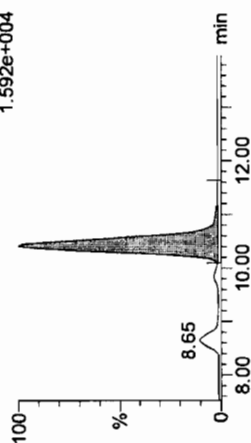
## 1,3,5-Trinitrobenzene

F10:MRM of 2 channels,AP-  
212.5 > 182.5  
2.432e+005

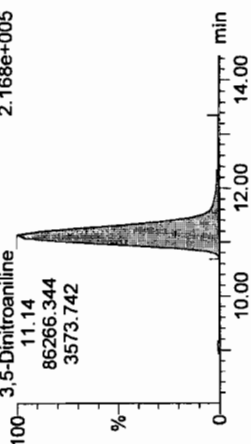
## Tetryl

F13:MRM of 2 channels,AP-  
240.6 > 212.4  
1.222e+005

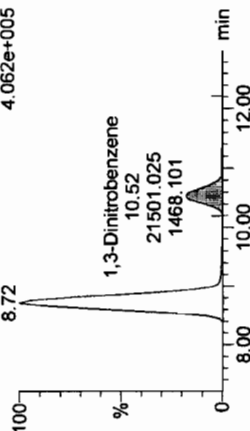
## 1,3-Dinitrobenzene D4

F11:MRM of 2 channels,AP-  
171.5 > 141.6  
1.592e+004

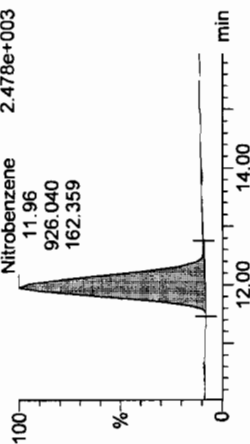
## 3,5-Dinitroaniline

F12:MRM of 2 channels,AP-  
182.5 > 152.5  
2.168e+005

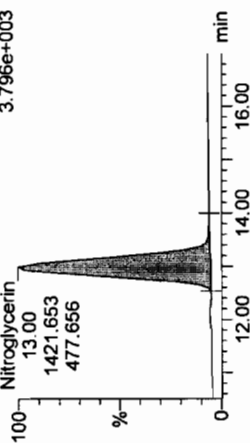
## 1,3-Dinitrobenzene

F9:MRM of 2 channels,AP-  
167.5 > 137.5  
4.062e+005

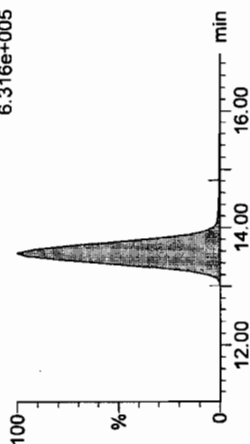
## Nitrobenzene

F14:MRM of 1 channel,AP-  
122.5 > 46  
2.478e+003

## Nitroglycerin

F15:MRM of 1 channel,AP-  
240.5 > 61.9  
3.796e+003

## 2,4,6-Trinitrotoluene

F16:MRM of 2 channels,AP-  
226.5 > 209.5  
6.316e+005

552 Q 1145

Method 8321, Explosives By LCMSMS

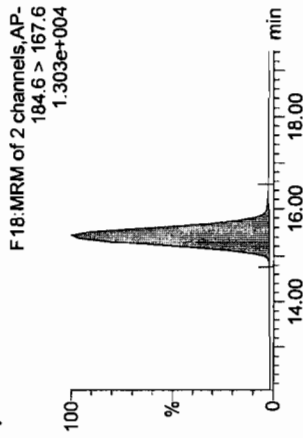
LOT # 489

# Quantify Sample Report MassLynx 4.1

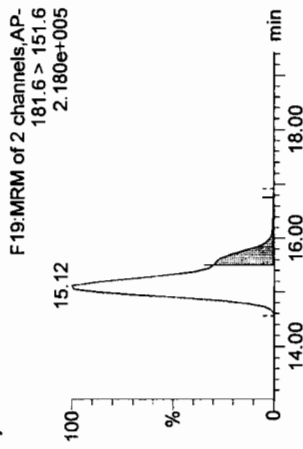
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_CCV25\_041410.qld  
 Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

Name: R04141025  
 Date: 15-Apr-2010  
 Time: 11:22:32  
 ID: LCMS7376-10  
 Description: 8321 CCV 200ppb  
 User: WH  
 Vial: 1:11  
 Instrument: LCMSMSR  
 Task:

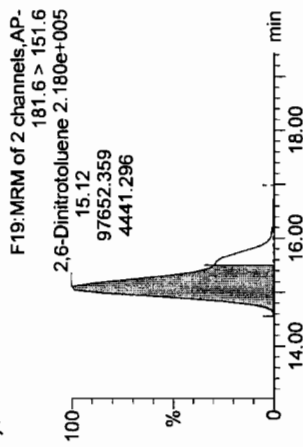
## 2,4-Dinitrotoluene D3



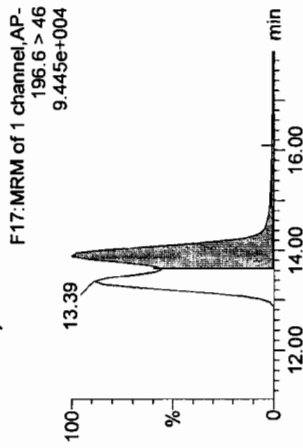
## 2,4-Dinitrotoluene



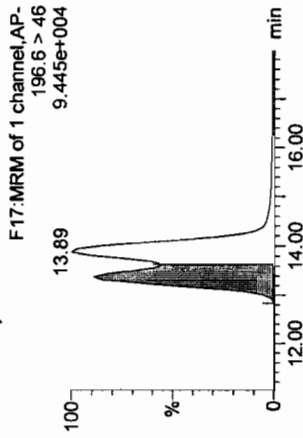
## 2,6-Dinitrotoluene



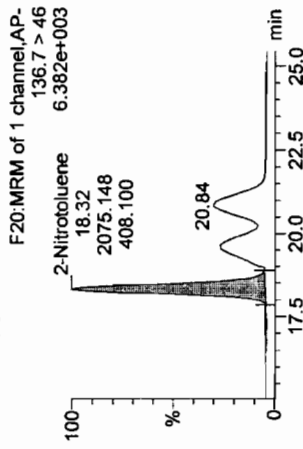
## 2-Amino-4,6-dinitrotoluene



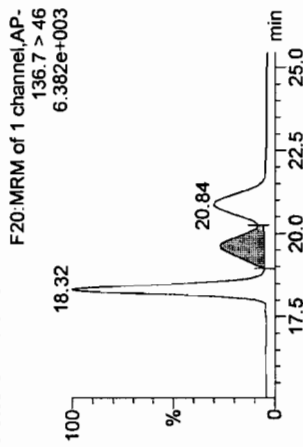
## 4-Amino-2,6-dinitrotoluene



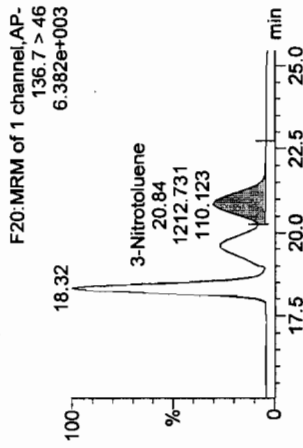
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



553 1145

Method 8321, Explosives By LCMSMS

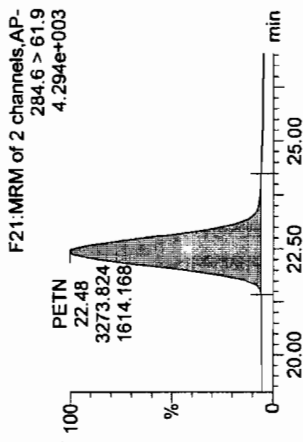
LOT

# Quantify Sample Report MassLynx 4.1  
 TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_CCV25\_041410.qld  
 Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

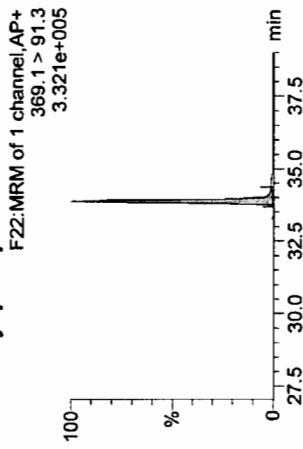
489

Name: R04141025  
 Date: 15-Apr-2010  
 Time: 11:22:32  
 ID: LCMS7376-10  
 Description: 8321 CCV 200ppb  
 User: WH  
 Vial: 1:11  
 Instrument: LCMSMSR  
 Task:

# PETN



# Tri-o-cresyl phosphate



554

Method 8321, Explosives By LCMSMS

1145



LOT

# Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_CCV25\_041410.qld

Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

Name: R04141025

Date: 15-Apr-2010

Time: 11:22:32

ID: LCMS73/76-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

1. Peak Not Found  
2. 100% to 100%  
3. 100% to 100%  
4. 100% to 100%

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det. Flags	ppb	%Rec
1...	2,6-Diamino-4-nitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	3.967	79670.320		79670.320	bd	180.7793	90.390
2...	2,4-Diamino-6-nitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	4.486	13877.468		13877.468	db	175.4544	87.727
3...	3-HMX 13C4	8321 CCV 200ppb	LCMS73/76-10	200.000	4.385	293.058		293.058	bb	283.4206	56.684
4...	4-HMX	8321 CCV 200ppb	LCMS73/76-10	200.000	4.398	1085.552		1852.111	bd	211.3261	105.663
5...	5-RDX 13C3	8321 CCV 200ppb	LCMS73/76-10	200.000	6.928	2041.130		2041.130	bb	195.6861	78.274
6...	6-RDX	8321 CCV 200ppb	LCMS73/76-10	200.000	6.931	1549.280		189.758	dd	189.3358	94.668
7...	7-TATB	8321 CCV 200ppb	LCMS73/76-10	200.000	6.983	559.898		559.898	bd	198.2970	99.149
8...	1,2-Dinitrobenzene	8321 CCV 200ppb	LCMS73/76-10	200.000	8.719	112939.336		1222.198	bb	245.7267	122.863
9...	1,3,5-Trinitrobenzene	8321 CCV 200ppb	LCMS73/76-10	200.000	9.088	67280.344		728.089	bb	164.0976	82.049
10...	1-Tetryl	8321 CCV 200ppb	LCMS73/76-10	200.000	11.328	49110.625		531.461	bb	237.3301	118.665
11...	1,3-Dinitrobenzene D4	8321 CCV 200ppb	LCMS73/76-10	200.000	10.412	4620.338		4620.338	db	54.3082	108.616
12...	3,5-Dinitroaniline	8321 CCV 200ppb	LCMS73/76-10	200.000	11.136	86266.344		933.550	bb	239.6892	119.845
13...	1,3-Dinitrobenzene	8321 CCV 200ppb	LCMS73/76-10	200.000	10.521	21501.025		232.678	bb	216.7037	108.352
14...	Nitrobenzene	8321 CCV 200ppb	LCMS73/76-10	200.000	11.962	926.040		10.021	bd	361.2342	180.617
15...	Nitroglycerin	8321 CCV 200ppb	LCMS73/76-10	200.000	13.000	1421.653		15.385	bd	245.3098	122.655
16...	1,2,4,6-Trinitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	13.575	258478.328		2797.180	bb	233.5404	116.770
17...	2,4-Dinitrotoluene D3	8321 CCV 200ppb	LCMS73/76-10	200.000	15.435	5505.440		5505.440	bb	32.7402	130.961
18...	2,4-Dinitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	15.508	17132.387		77.798	MM	197.9360	98.968
19...	2,6-Dinitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	15.117	97652.359		443.436	MM	217.0626	108.531
20...	2-Amino-4,6-dinitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	13.889	42110.828		191.224	db	241.8487	120.924
21...	4-Amino-2,6-dinitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	13.390	34149.605		155.072	bd	243.0040	121.502
22...	2-Nitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	18.322	2075.148		9.423	bb	291.2203	145.610
23...	4-Nitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	19.666	1010.515		4.589	bd	355.3325	177.666
24...	3-Nitrotoluene	8321 CCV 200ppb	LCMS73/76-10	200.000	20.843	1212.731		5.507	db	292.6750	146.338
25...	PEIN	8321 CCV 200ppb	LCMS73/76-10	200.000	22.480	3273.824		14.866	bb	209.8511	104.926
26...	Tri-o-cresyl phosphate	8321 CCV 200ppb	LCMS73/76-10	200.000	33.870	40382.660		40382.660	bd	36.7586	91.897

Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report      MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SaveExp\R041410\_LANL\8321\_CCV25\_041410.qld

Last Altered: Thursday, April 15, 2010 13:02:15 Central Daylight Time

Printed: Friday, April 16, 2010 16:13:53 Central Daylight Time

489

Name: R04141025

Date: 15-Apr-2010

Time: 11:22:32

ID: LCMS7376-10

Description: 8321 CCV 200ppb

User: WH

Vial: 1:11

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6 > 121.7	8391.9...	2.858	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
2	167.6 > 121.7	1244.4...	2.433	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
3	362.5 > 150.5	70.974	2.532	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
4	354.5 > 148.5	84.258	2.380	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
5	283.5 > 46	640.974	3.286	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
6	280.5 > 46	201.670	3.218	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
7	256.6 > 204.5	87.568	3.451	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
8	167.5 > 137.5	8381.4...	3.593	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
9	212.5 > 182.5	11867....	3.610	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
10	240.6 > 212.4	4623.4...	2.484	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
11	171.5 > 141.6	302.141	3.403	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
12	182.5 > 152.5	3573.7...	2.507	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
13	167.5 > 137.5	1468.1...	3.306	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
14	122.5 > 46	162.359	2.453	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
15	240.5 > 61.9	477.656	2.531	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
16	226.5 > 209.5	27971....	2.440	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
17	184.6 > 167.6	657.655	2.316	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
18	181.6 > 151.6	1297.2...	3.710	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
19	181.6 > 151.6	4441.2...	2.228	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
20	196.6 > 46	1700.4...	2.233	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
21	196.6 > 46	1509.8...	2.445	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
22	136.7 > 46	408.100	2.932	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
23	136.7 > 46	93.223	1.376	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
24	136.7 > 46	110.123	1.354	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
25	284.6 > 61.9	1614.1...	1.236	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	
26	369.1 > 91.3	5052.9...	8.204	15-Apr-10	11:22:32	1.000	1.000	1.000	1.000	

6

Method 8321, Explosives By LCMSMS

1145

## **LC/MS/MS RAW SAMPLE DATA**

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141006

Date: 14-Apr-2010

Time: 22:40:38

ID: LXNJ91AD

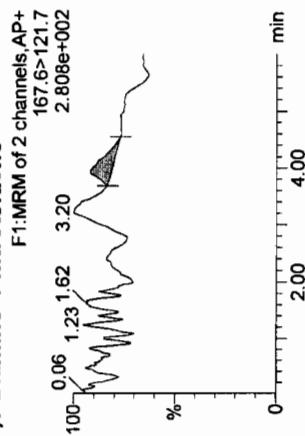
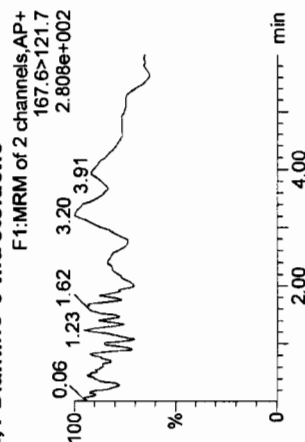
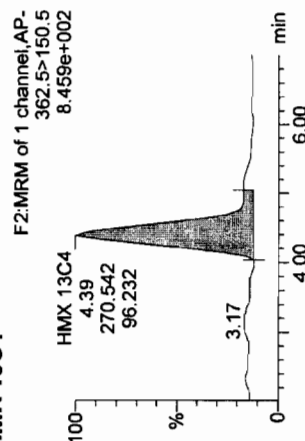
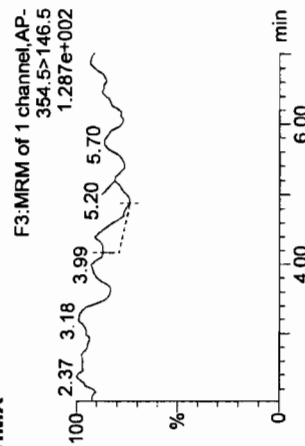
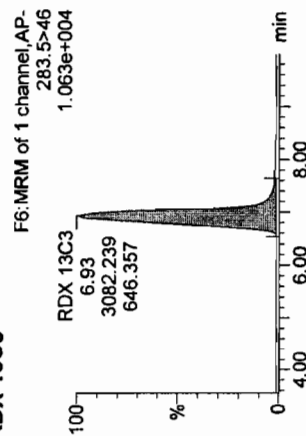
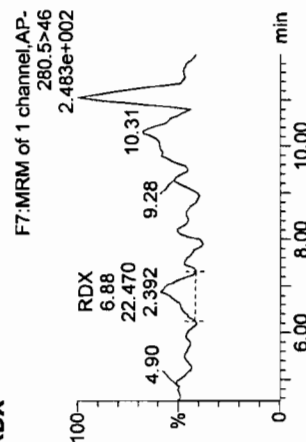
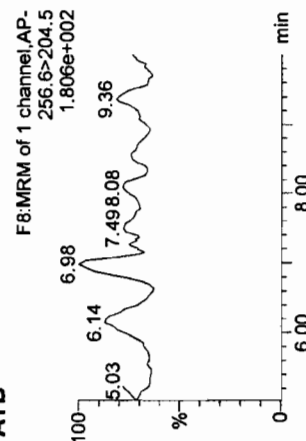
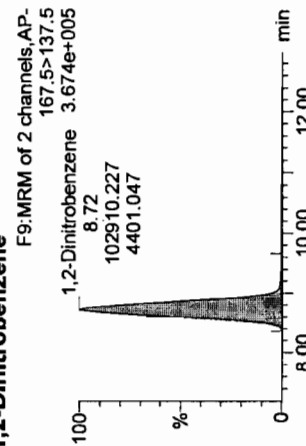
Description: F0D080489-001

User: WH

Vial: 1:15

Instrument: LCMSMSR

Task:

**2,6-Diamino-4-nitrotoluene****2,4-Diamino-6-nitrotoluene****HMX 13C4****HMX****RDX 13C3****RDX****TATB****1,2-Dinitrobenzene**

## MassLynx 4.1

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141006

Date: 14-Apr-2010

Time: 22:40:38

ID: LXNJ91AD

Description: F0D080489-001

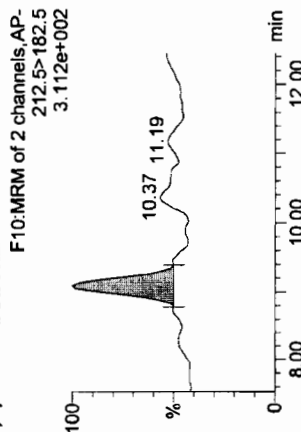
User: WH

Vial: 1:15

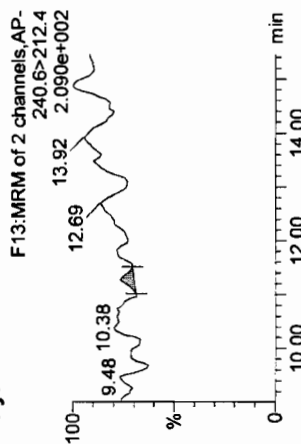
Instrument: LCMSMSR

Task:

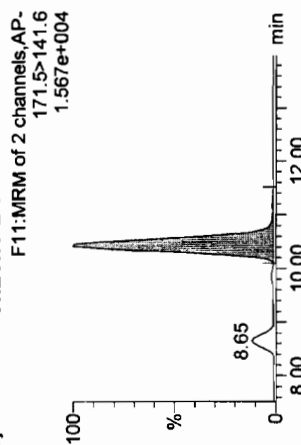
## 1,3,5-Trinitrobenzene



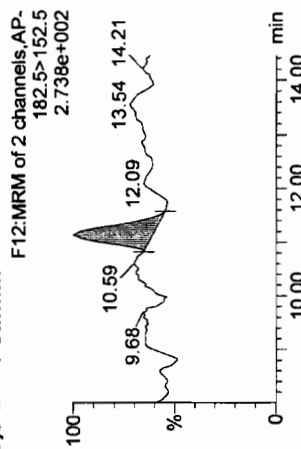
## Tetryl



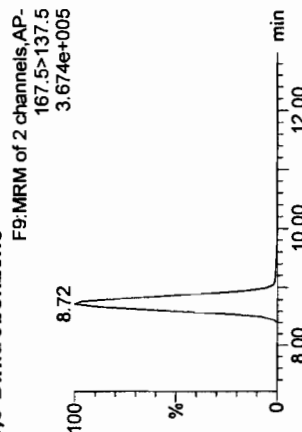
## 1,3-Dinitrobenzene D4



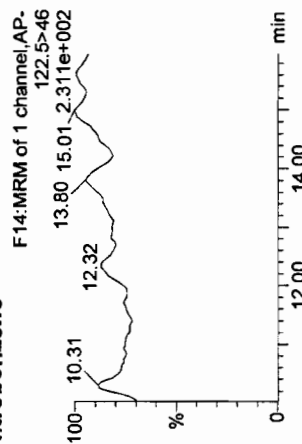
## 3,5-Dinitroaniline



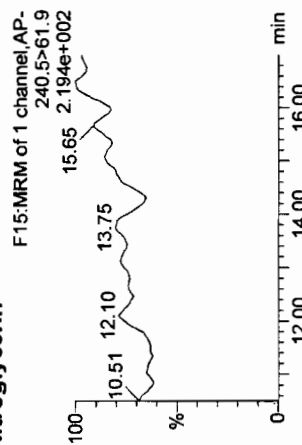
## 1,3-Dinitrobenzene



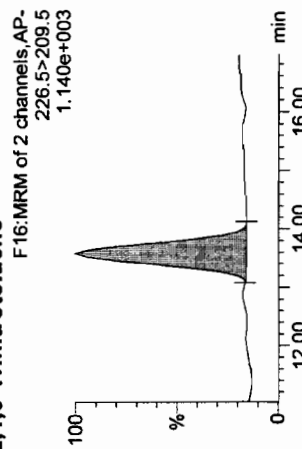
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



## MassLynx 4.1

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141006

Date: 14-Apr-2010

Time: 22:40:38

ID: LXNJ91AD

Description: F0D080489-001

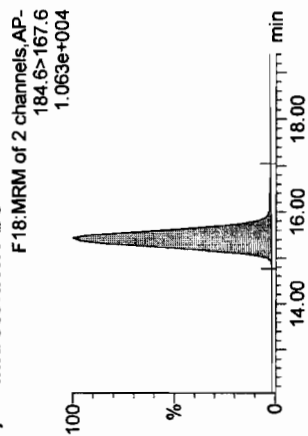
User: WH

Vial: 1:15

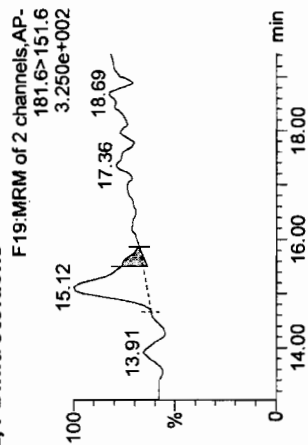
Instrument: LCMSMSR

Task:

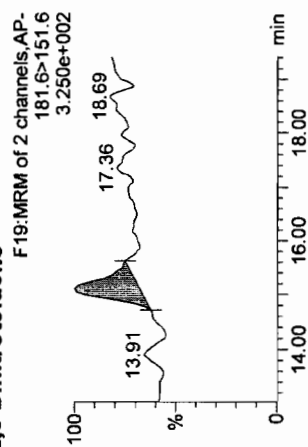
## 2,4-Dinitrotoluene D3



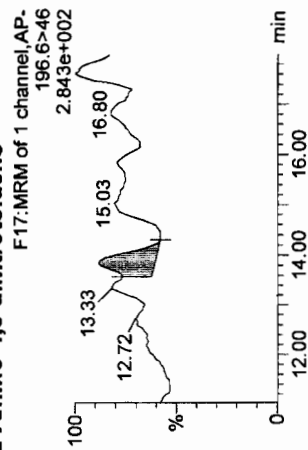
## 2,4-Dinitrotoluene



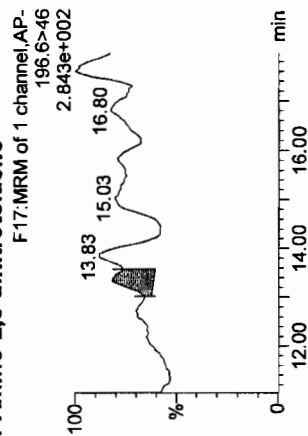
## 2,6-Dinitrotoluene



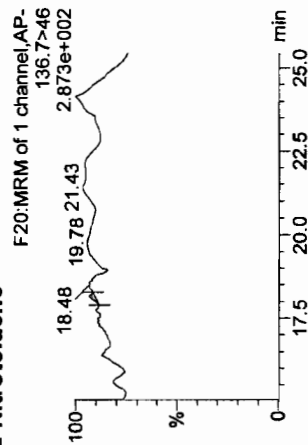
## 2-Amino-4,6-dinitrotoluene



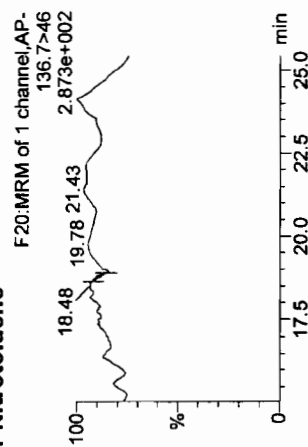
## 4-Amino-2,6-dinitrotoluene



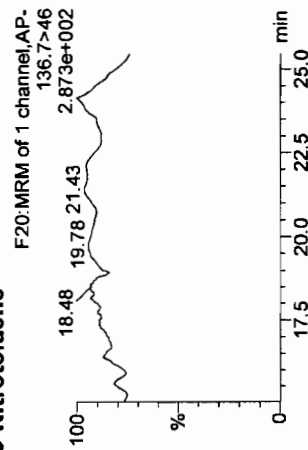
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



## Quantify Sample Report

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321 SMP1\_041410.qld

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

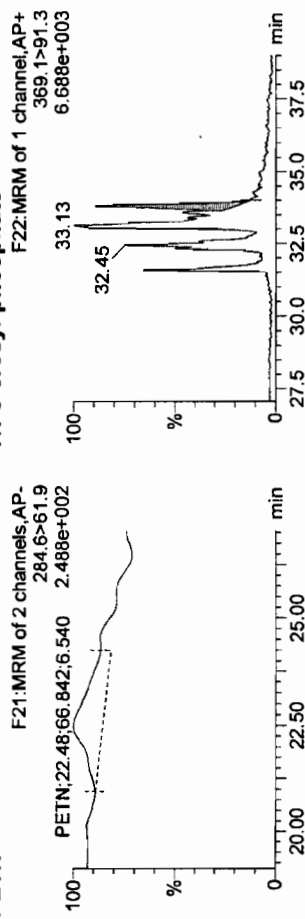
Date: 14-Apr-2010

ID: LXNJ91AD

**User:** WH

**Instrument: LCMSMSR**

**PETN**



## Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

89

Name: R04141006

Date: 14-Apr-2010

Time: 22:40:38

ID: LXNJ91AD

Description: F0D080489-001

User: WH

Vial: 1:15

Instrument: LCMSMSR

Task:

1. Peak 101.021  
 2. Peak 101.021  
 3. Peak 101.021  
 4. Peak 101.021

Wt  
4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ug/Kg	% Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-001	LXNJ91AD		3.909	12.298		12.298	bb	0.2791	
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-001	LXNJ91AD								
3	3... HMX 13C4	F0D080489-001	LXNJ91AD		4.385	270.542	270.542	270.542	bd	261.6451	52.329
4	4... HMX	F0D080489-001	LXNJ91AD						MM-		
5	5... RDX 13C3	F0D080489-001	LXNJ91AD		6.928	3082.239	3082.239	3082.239	bd	295.4988	118.200
6	6... RDX	F0D080489-001	LXNJ91AD						MM-		
7	7... TATB	F0D080489-001	LXNJ91AD								
8	8... 1,2-Dinitrobenzene	F0D080489-001	LXNJ91AD		8.719	102910.227	4391.163	1171.788	bb	2355.9166	117.796
9	9... 1,3,5-Trinitrobenzene	F0D080489-001	LXNJ91AD		9.088	40.872	4391.163	0.465	bb	1.0489	
10	1... Tetra	F0D080489-001	LXNJ91AD		11.265	3.153	4391.163	0.036	bb	0.1603	
11	1... 1,3-Dinitrobenzene D4	F0D080489-001	LXNJ91AD		10.412	4391.163	4391.163	4391.163	db	51.6144	103.229
12	1... 3,5-Dinitroaniline	F0D080489-001	LXNJ91AD		11.136	37.851	4391.163	0.431	bb	1.1066	
13	1... 1,3-Dinitrobenzene	F0D080489-001	LXNJ91AD				4391.163				
14	1... Nitrobenzene	F0D080489-001	LXNJ91AD				4391.163				
15	1... Nitroglycerin	F0D080489-001	LXNJ91AD				4391.163				
16	1... 2,4,6-Trinitrotoluene	F0D080489-001	LXNJ91AD		13.575	388.697	4391.163	4.426	db	3.6952	
17	1... 2,4-Dinitrotoluene D3	F0D080489-001	LXNJ91AD		15.435	4490.815	4490.815	4490.815	bd	26.7064	106.825
18	1... 2,4-Dinitrotoluene	F0D080489-001	LXNJ91AD		15.508	8.298	4490.815	0.046	MM	1.1753	
19	1... 2,6-Dinitrotoluene	F0D080489-001	LXNJ91AD		15.117	43.188	4490.815	0.240	bb	1.1769	
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-001	LXNJ91AD		13.827	33.647	4490.815	0.187	db	2.3690	
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-001	LXNJ91AD		13.328	23.072	4490.815	0.128	dd	2.0127	
22	2... 2-Nitrotoluene	F0D080489-001	LXNJ91AD		18.164	1.509	4490.815	0.008	bb	2.5961	
23	2... 4-Nitrotoluene	F0D080489-001	LXNJ91AD		18.668	0.913	4490.815	0.005	bb	1.9778	
24	2... 3-Nitrotoluene	F0D080489-001	LXNJ91AD				4490.815				
25	2... PETN	F0D080489-001	LXNJ91AD				4490.815		MM-		
26	2... Tri-o-cresyl phosphate	F0D080489-001	LXNJ91AD		33.821	747.557	4490.815	747.557	db	0.9243	

Method 8321, Explosives By LCMSMS

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LOT #

Quantify Sample Report **MassLynx 4.1**

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

89

Name: R04141006

Date: 14-Apr-2010

Time: 22:40:38

ID: LXNJ91AD

Description: F0D080489-001

User: WH

Vial: 1:15

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt/Volume (g)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	0.969	2.277	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
2	167.6>121.7			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
3	362.5>150.5	96.232	2.750	14-Apr-10	22:40:38	1.000	1.000	1.000	1.000	
4	354.5>146.5			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
5	283.5>46	646.357	3.404	14-Apr-10	22:40:38	1.000	1.000	1.000	1.000	
6	280.5>46			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
7	256.6>204.5			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
8	167.5>137.5	4401.0...	3.566	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
9	212.5>182.5	16.131	3.817	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
10	240.6>212.4	1.572	4.757	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
11	171.5>141.6	559.550	3.527	14-Apr-10	22:40:38	1.000	1.000	1.000	1.000	
12	182.5>152.5	5.741	2.827	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
13	167.5>137.5			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
14	122.5>46			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
15	240.5>61.9			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
16	226.5>209.5	56.109	2.475	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
17	184.6>167.6	777.198	2.319	14-Apr-10	22:40:38	1.000	1.000	1.000	1.000	
18	181.6>151.6	2.024	4.941	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
19	181.6>151.6	5.133	2.408	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
20	196.6>46	2.194	2.318	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
21	196.6>46	1.959	2.557	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
22	136.7>46	1.036	5.302	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
23	136.7>46	0.389	3.286	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
24	136.7>46			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
25	284.6>61.9			14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	
26	369.1>91.3	88.490	6.215	14-Apr-10	22:40:38	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

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LOT # 89

# Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141009

Date: 15-Apr-2010

Time: 00:40:54

ID: LXNKC1AD

Description: F0D080489-002

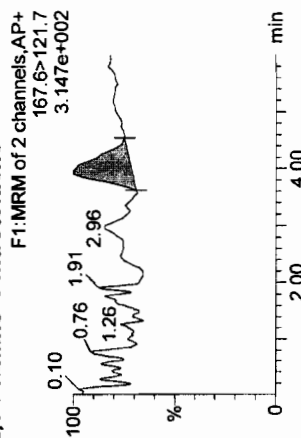
User: WH

Vial: 1:18

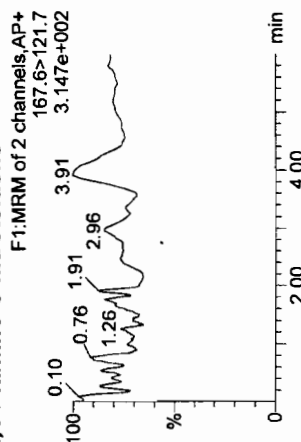
Instrument: LCMSMSR

Task:

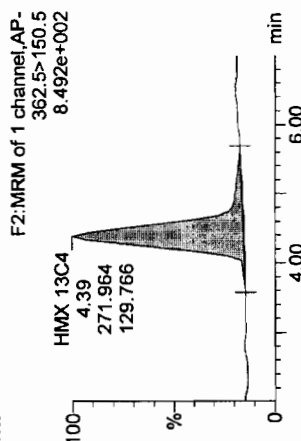
## 2,6-Diamino-4-nitrotoluene



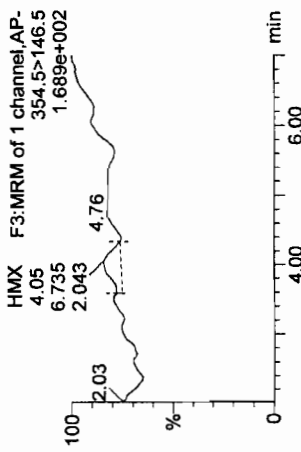
## 2,4-Diamino-6-nitrotoluene



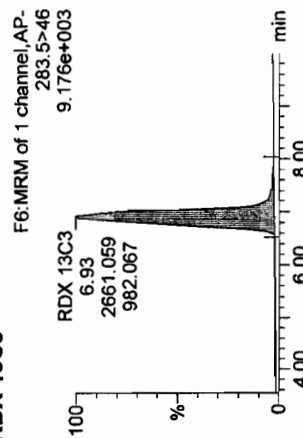
## HMX 13C4



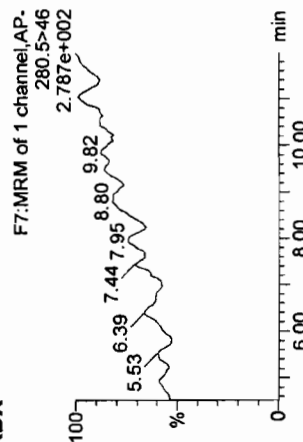
## HMX



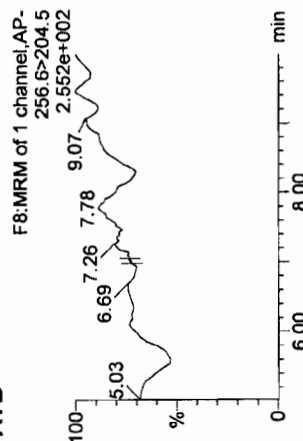
## RDX 13C3



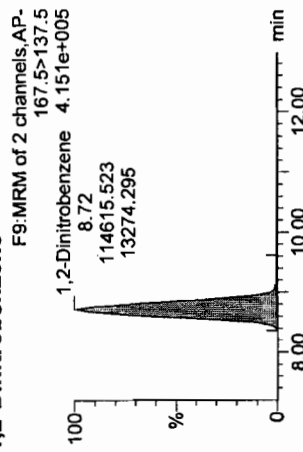
## RDX



## TATB



## 1,2-Dinitrobenzene



564 1145

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

89

Name: R04141009

Date: 15-Apr-2010

Time: 00:40:54

ID: LXNKC1AD

Description: F0D080489-002

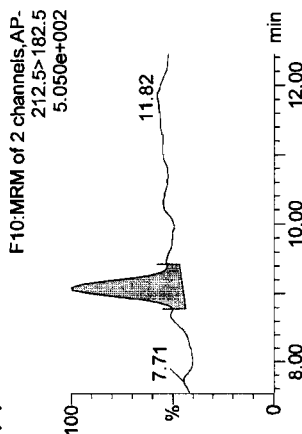
User: WH

Vial: 1:18

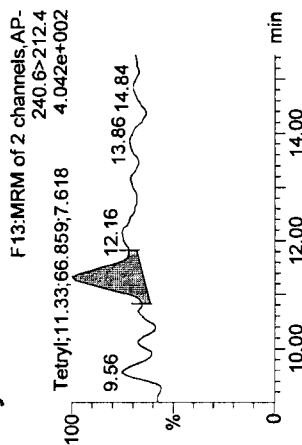
Instrument: LCMSMSR

Task:

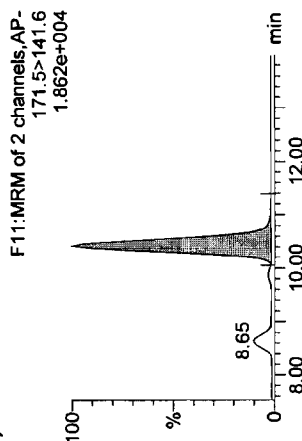
## 1,3,5-Trinitrobenzene



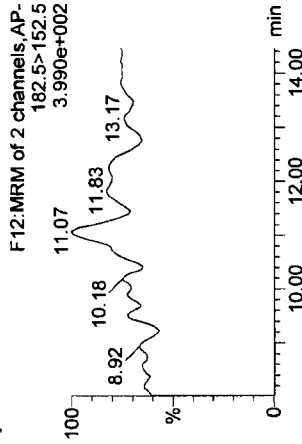
## Tetryl



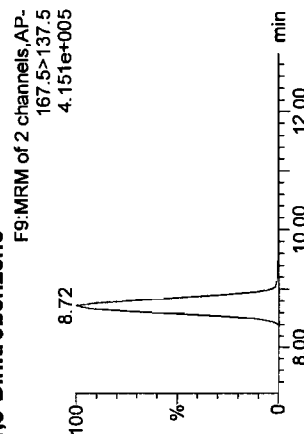
## 1,3-Dinitrobenzene D4



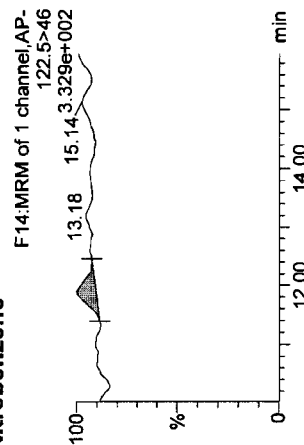
## 3,5-Dinitroaniline



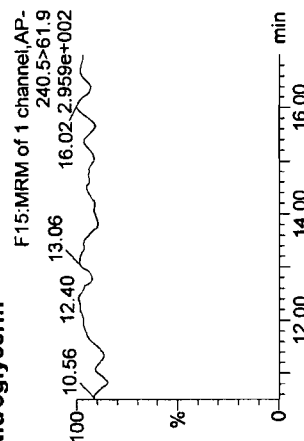
## 1,3-Dinitrobenzene



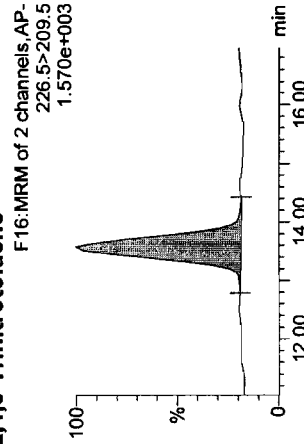
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



565

Method 8321, Explosives By LCMSMS

1145

LOT # 489

# Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141009

Date: 15-Apr-2010

Time: 00:40:54

ID: LXNKC1AD

Description: F0D080489-002

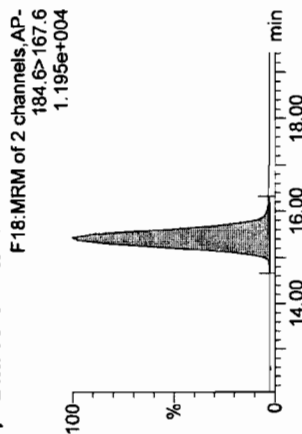
User: WH

Vial: 1:18

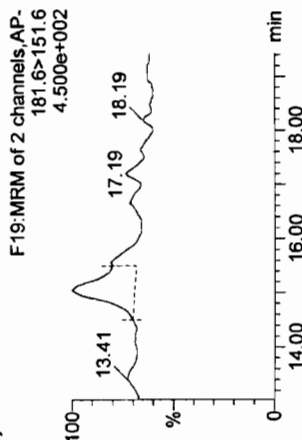
Instrument: LCMSMSR

Task:

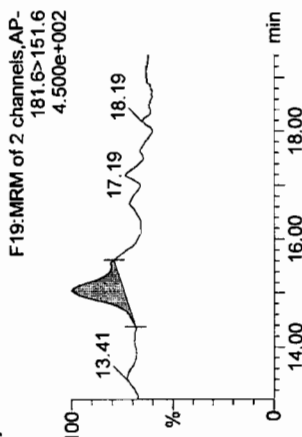
## 2,4-Dinitrotoluene D3



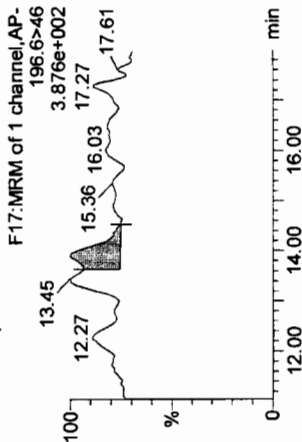
## 2,4-Dinitrotoluene



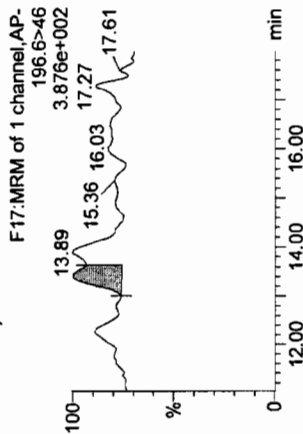
## 2,6-Dinitrotoluene



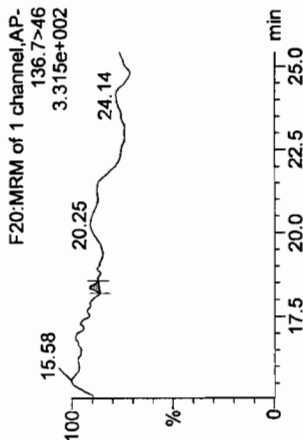
## 2-Amino-4,6-dinitrotoluene



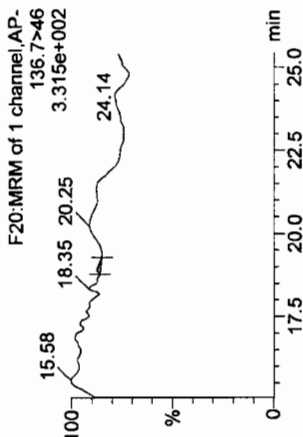
## 4-Amino-2,6-dinitrotoluene



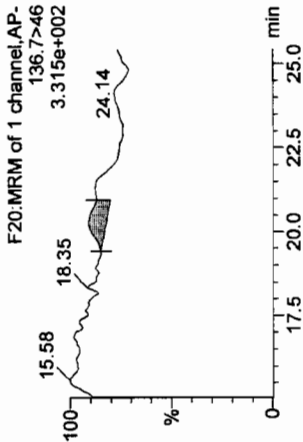
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



566

Method 8321, Explosives By LCMSMS

1145

LOT

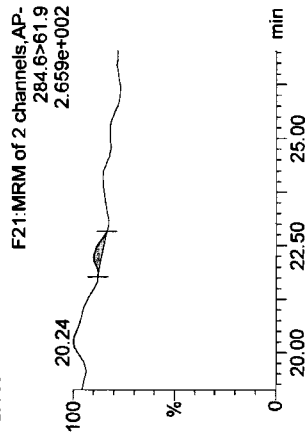
# Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
 List Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

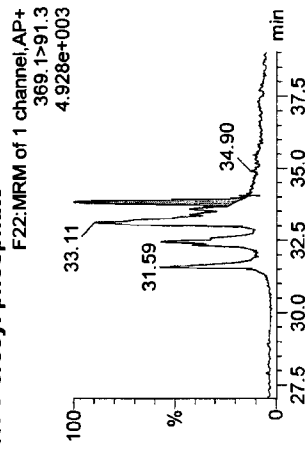
489

Name: R04141009  
 Date: 15-Apr-2010  
 Time: 00:40:54  
 ID: LXNKG1AD  
 Description: F0D080489-002  
 User: WH  
 Vial: 1:18  
 Instrument: LCMSMSR  
 Task:

PETN



Tri-o-cresyl phosphate



567

Method 8321, Explosives By LCMSMS

1145

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141009

Date: 15-Apr-2010

Time: 00:40:54

ID: LXNKC1AD

Description: F0D080489-002

User: WH

Vial: 1:18

Instrument: LCMSMSR

Task:

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ug/Kg	% Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-002	LXNKC1AD		3.908	42.400		42.400	bb	0.9621	
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-002	LXNKC1AD								
3	3... HMX 13C4	F0D080489-002	LXNKC1AD		4.385	271.964		271.964	bb	263.0203	52.604
4	4... HMX	F0D080489-002	LXNKC1AD				271.964		MM-		
5	5... RDX 13C3	F0D080489-002	LXNKC1AD		6.928	2661.059		2661.059	bb	255.1196	102.048
6	6... RDX	F0D080489-002	LXNKC1AD				2661.059				
7	7... TATB	F0D080489-002	LXNKC1AD		7.030	0.081		0.081	bb	0.2869	
8	8... 1,2-Dinitrobenzene	F0D080489-002	LXNKC1AD		8.719	114615.523		1106.411	bb	2224.4752	111.224
9	9... 1,3,5-Trinitrobenzene	F0D080489-002	LXNKC1AD		9.088	85.320		5179.607	dd	1.8563	
10	1... Tetryl	F0D080489-002	LXNKC1AD		11.328	66.859		5179.607	dd	2.8821	
11	1... 1,3-Dinitrobenzene D4	F0D080489-002	LXNKC1AD		10.412	5179.607		5179.607	db	60.8819	121.764
12	1... 3,5-Dinitroaniline	F0D080489-002	LXNKC1AD				5179.607				
13	1... 1,3-Dinitrobenzene	F0D080489-002	LXNKC1AD				5179.607				
14	1... Nitrobenzene	F0D080489-002	LXNKC1AD		11.899	14.170		0.137	bbl		
15	1... Nitroglycerin	F0D080489-002	LXNKC1AD				5179.607				
16	1... 2,4,6-Trinitrotoluene	F0D080489-002	LXNKC1AD		13.575	534.192		5.157	bd	4.3054	
17	1... 2,4-Dinitrotoluene D3	F0D080489-002	LXNKC1AD		15.436	4996.514		4996.514	dd	29.7137	118.855
18	1... 2,4-Dinitrotoluene	F0D080489-002	LXNKC1AD				4996.514		MM-		
19	1... 2,6-Dinitrotoluene	F0D080489-002	LXNKC1AD		15.052	50.490		0.253	bb	1.2366	
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-002	LXNKC1AD		13.890	44.920		0.225	db	2.8426	
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-002	LXNKC1AD		13.453	37.285		0.187	bd	2.9234	
22	2... 2-Nitrotoluene	F0D080489-002	LXNKC1AD		18.353	2.947		0.015	bb	4.5570	
23	2... 4-Nitrotoluene	F0D080489-002	LXNKC1AD		18.920	1.507		0.008	bb	3.8820	
24	2... 3-Nitrotoluene	F0D080489-002	LXNKC1AD		20.254	30.651		0.153	bd	81.5062	
25	2... PETN	F0D080489-002	LXNKC1AD		22.245	6.200		0.031	bb	4.3790	
26	2... Tri-o-cresyl phosphate	F0D080489-002	LXNKC1AD		33.814	622.910		622.910	dbl		

Method 8321, Explosives By LCMSMS

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141009

Date: 15-Apr-2010

Time: 00:40:54

ID: LXNKC1AD

Description: F0D080489-002

User: WH

Vial: 1:18

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Volume (µl)	Final Volume (µl)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	2.490	2.170	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
2	167.6>121.7			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
3	362.5>150.5	129.766	2.636	15-Apr-10	00:40:54	1.000	1.000	1.000	1.000	
4	354.5>146.5			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
5	283.5>46	982.067	3.378	15-Apr-10	00:40:54	1.000	1.000	1.000	1.000	
6	280.5>46			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
7	256.6>204.5	0.065	24.691	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
8	167.5>137.5	13274.000	3.617	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
9	212.5>182.5	17.910	3.247	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
10	240.6>212.4	7.618	2.124	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
11	171.5>141.6	826.516	3.539	15-Apr-10	00:40:54	1.000	1.000	1.000	1.000	
12	182.5>152.5			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
13	167.5>137.5			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
14	122.5>46	4.346	2.258	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
15	240.5>61.9			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
16	226.5>209.5	101.466	2.398	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
17	184.6>167.6	770.818	2.330	15-Apr-10	00:40:54	1.000	1.000	1.000	1.000	
18	181.6>151.6			15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
19	181.6>151.6	6.338	2.297	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
20	196.6>46	4.390	2.115	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
21	196.6>46	4.344	2.521	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
22	136.7>46	1.636	5.429	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
23	136.7>46	0.614	3.981	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
24	136.7>46	2.966	0.946	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
25	284.6>61.9	1.151	1.774	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	
26	369.1>91.3	72.992	6.335	15-Apr-10	00:40:54	2.000	10.000	2.000	1.000	

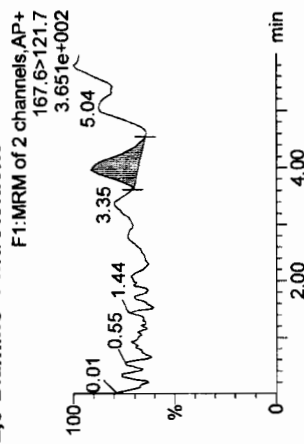
Method 8321, Explosives By LCMSMS

## Quantify Sample Report MassLynx 4.1

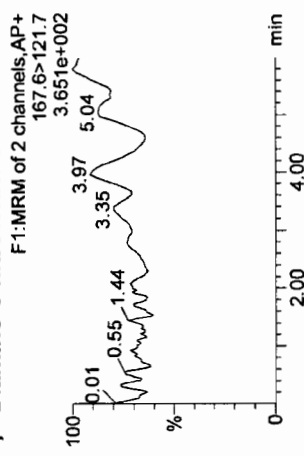
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010  
 Date: 15-Apr-2010  
 Time: 01:21:00  
 ID: LXNKE1AD  
 Description: F0D080489-003  
 User: WH  
 Vial: 1:19  
 Instrument: LCMSMSR  
 Task:

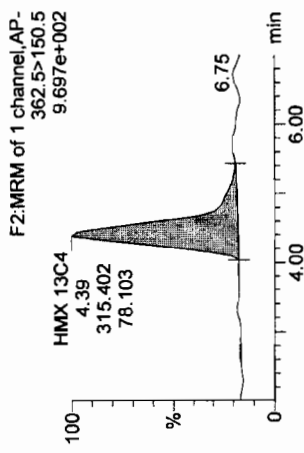
## 2,6-Diamino-4-nitrotoluene



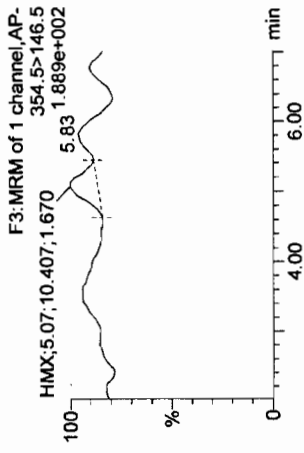
## 2,4-Diamino-6-nitrotoluene



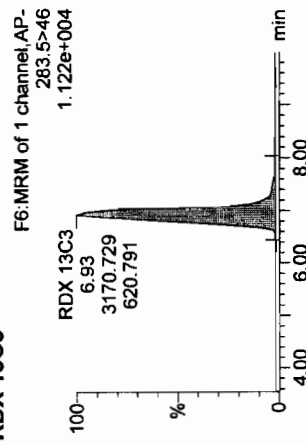
## HMX 13C4



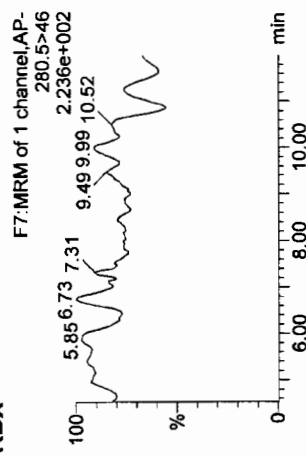
## HMX



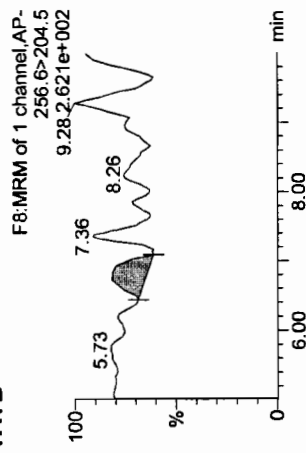
## RDX 13C3



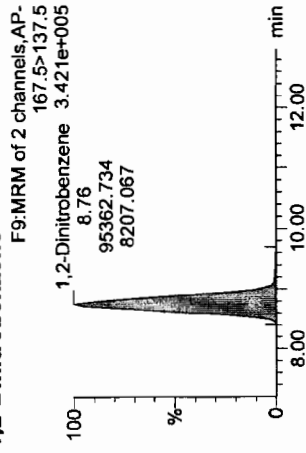
## RDX



## TATB



## 1,2-Dinitrobenzene





## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010

Date: 15-Apr-2010

Time: 01:21:00

ID: LXNKE1AD

Description: F0D080489-003

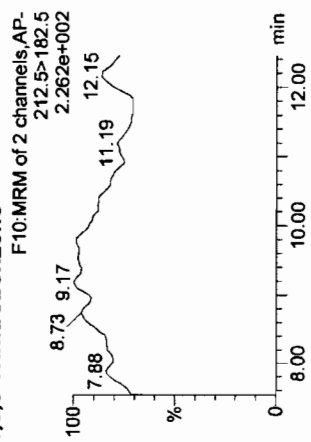
User: WH

Vial: 1:19

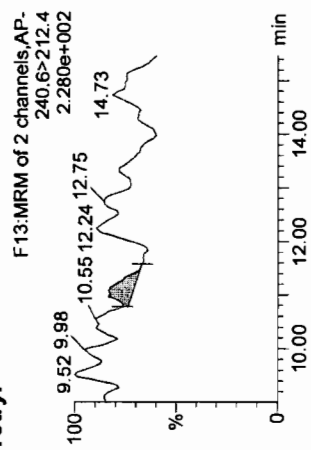
Instrument: LCMSMSR

Task:

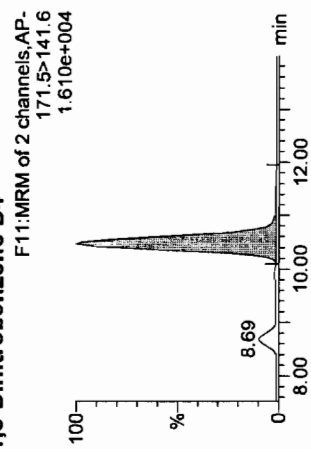
## 1,3,5-Trinitrobenzene



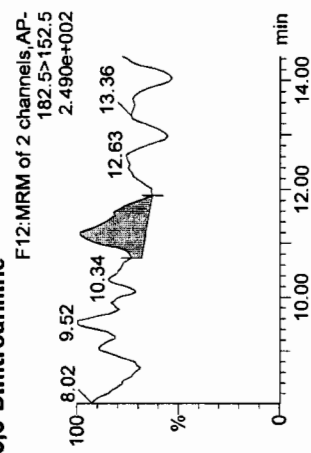
## Tetryl



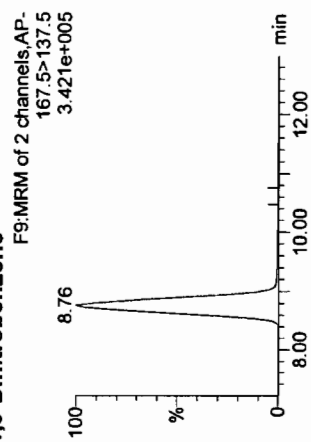
## 1,3-Dinitrobenzene D4



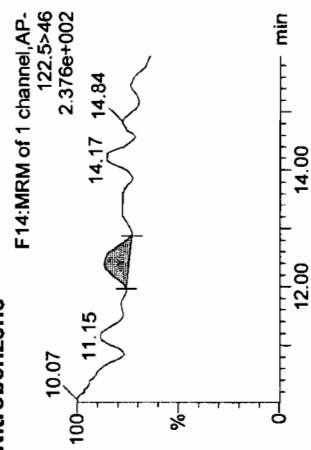
## 3,5-Dinitroaniline



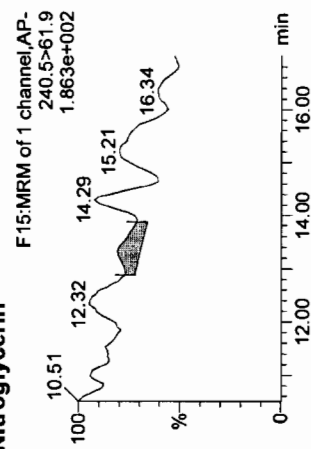
## 1,3-Dinitrobenzene



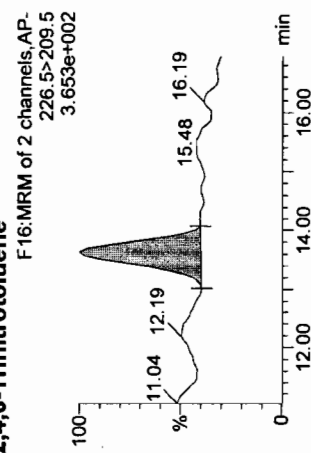
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



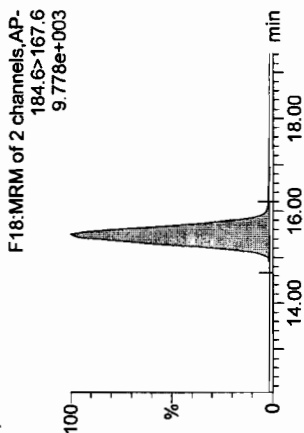
LOT

# Quantify Sample Report      MassLynx 4.1

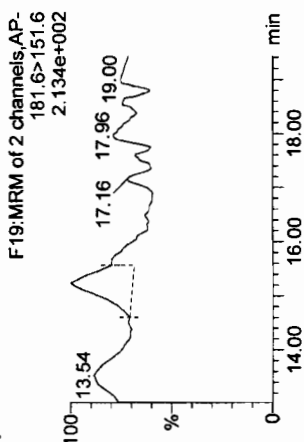
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010  
 Date: 15-Apr-2010  
 Time: 01:21:00  
 ID: LXNKE1AD  
 Description: F0D080489-003  
 User: WH  
 Vial: 1:19  
 Instrument: LCMSMSR  
 Task:

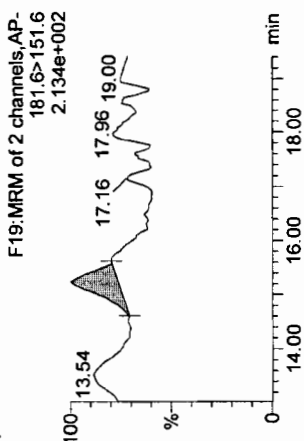
## 2,4-Dinitrotoluene D3



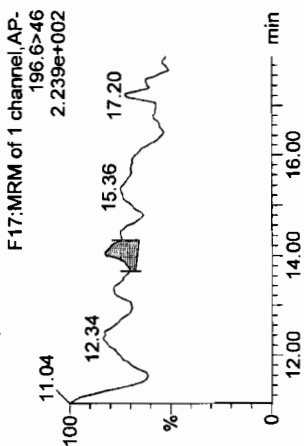
## 2,4-Dinitrotoluene



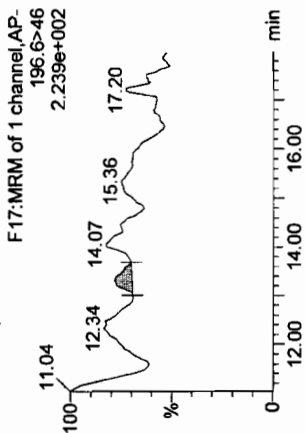
## 2,6-Dinitrotoluene



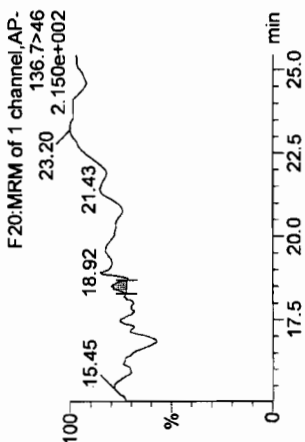
## 2-Amino-4,6-dinitrotoluene



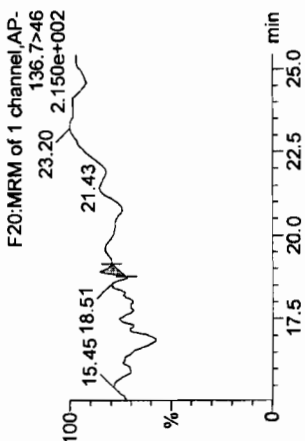
## 4-Amino-2,6-dinitrotoluene



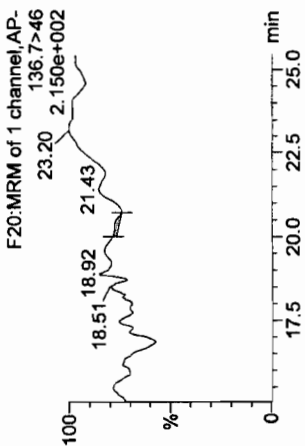
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



572

Method 8321, Explosives By LCMSMS

1145

LOT

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_SMP1\_041410.qld  
List Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010

Date: 15-Apr-2010

Time: 01:21:00

ID: LXXKE1AD

Description: F0D080489-003

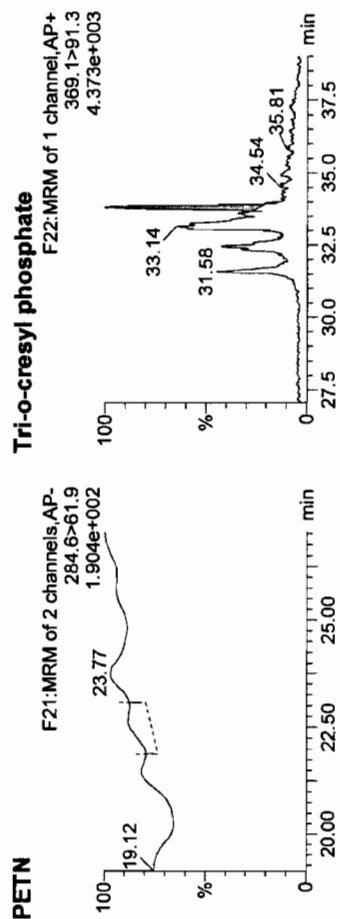
User: WH

Vial: 1:19

Instrument: LCMSMSR

Task:

PETN



573

Method 8321, Explosives By LCMSMS

1145

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PROIDDataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010

Date: 15-Apr-2010

Time: 01:21:00

ID: LXXNKE1AD

Description: F0D080489-003

User: WH

Vial: 1:19

Instrument: LCMSMSR

Task:

#	Name	Sample Text	ID	Std. Conc.	Area	IS Area	Response	Det. Flag	uol/kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-003	LXNKE1AD	3.967	35.582		35.582	db	0.8074	
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-003	LXNKE1AD							
3	3... HMX 13C4	F0D080489-003	LXNKE1AD	4.385	315.402		315.402	bd	305.0299	61.006
4	4... HMX	F0D080489-003	LXNKE1AD			315.402		MM-		
5	5... RDX 13C3	F0D080489-003	LXNKE1AD	6.928	3170.729		3170.729	bb	303.9825	121.593
6	6... RDX	F0D080489-003	LXNKE1AD			3170.729				
7	7... TATB	F0D080489-003	LXNKE1AD	6.735	19.336		19.336	bb	68.4816	
8	8... 1,2-Dinitrobenzene	F0D080489-003	LXNKE1AD	8.764	95362.734		1018.392	bb	2047.5098	102.375
9	9... 1,3,5-Trinitrobenzene	F0D080489-003	LXNKE1AD			4682.024				
10	1... Tetol	F0D080489-003	LXNKE1AD	10.967	11.657		0.124	db	0.5559	
11	1... 1,3-Dinitrobenzene D4	F0D080489-003	LXNKE1AD	10.451	4682.024		4682.024	db	55.0332	110.066
12	1... 3,5-Dinitroaniline	F0D080489-003	LXNKE1AD	11.198	50.221		0.536	db	1.3770	
13	1... 1,3-Dinitrobenzene	F0D080489-003	LXNKE1AD	10.708	11.722		0.125	bd	1.1659	
14	1... Nitrobenzene	F0D080489-003	LXNKE1AD	12.389	15.885		0.170	bb	0.1462	
15	1... Nitroglycerin	F0D080489-003	LXNKE1AD	13.312	15.049		0.161	dd	25.6253	
16	1... 2,4,6-Trinitrotoluene	F0D080489-003	LXNKE1AD	13.638	95.498		1.020	bb	0.8515	
17	1... 2,4-Dinitrotoluene D3	F0D080489-003	LXNKE1AD	15.501	4187.595		4187.595	bd	24.9031	99.613
18	1... 2,4-Dinitrotoluene	F0D080489-003	LXNKE1AD			4187.595		MM-		
19	1... 2,6-Dinitrotoluene	F0D080489-003	LXNKE1AD	15.247	22.324		0.133	bb	0.6524	
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-003	LXNKE1AD	14.073	13.749		0.082	dd	1.0381	
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-003	LXNKE1AD	13.328	7.124		0.043	bb	0.6665	
22	2... 2-Nitrotoluene	F0D080489-003	LXNKE1AD	18.511	3.934		0.023	bb	7.2583	
23	2... 4-Nitrotoluene	F0D080489-003	LXNKE1AD	18.920	3.977		0.024	bb	16.4355	
24	2... 3-Nitrotoluene	F0D080489-003	LXNKE1AD	20.019	2.566		0.015	db	8.1415	
25	2... PETN	F0D080489-003	LXNKE1AD			4187.595		MM-		
26	2... Tri-o-cresyl phosphate	F0D080489-003	LXNKE1AD	33.814	397.238		397.238	bbi		

Method 8321, Explosives By LCMSMS

LOT

# **Quantify Sample Report**      **MassLynx 4.1**

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PROIDDataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141010  
 Date: 15-Apr-2010  
 Time: 01:21:00  
 ID: LXNKE1AD  
 Description: F0D080489-003  
 User: WH  
 Vial: 1:19  
 Instrument: LCMSMSR  
 Task:

Trace	Sec. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Vol. (μL)	Final Volume (μL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	2.829	2.361	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
2	167.6>121.7			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
3	362.5>150.5	78.103	2.530	15-Apr-10	01:21:00	1.000	1.000	1.000	1.000	
4	354.5>146.5			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
5	283.5>46	620.791	3.480	15-Apr-10	01:21:00	1.000	1.000	1.000	1.000	
6	280.5>46			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
7	256.6>204.5	1.657	2.276	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
8	167.5>137.5	8207.0...	3.583	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
9	212.5>182.5			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
10	240.6>212.4	1.005	2.230	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
11	171.5>141.6	324.457	3.398	15-Apr-10	01:21:00	1.000	1.000	1.000	1.000	
12	182.5>152.5	5.708	1.613	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
13	167.5>137.5	1.561	5.545	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
14	122.5>46	1.703	1.826	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
15	240.5>61.9	0.943	1.395	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
16	226.5>209.5	11.516	2.293	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
17	184.6>167.6	403.430	2.298	15-Apr-10	01:21:00	1.000	1.000	1.000	1.000	
18	181.6>151.6			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
19	181.6>151.6	2.126	2.285	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
20	186.6>46	1.047	2.618	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
21	186.6>46	0.553	2.667	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
22	136.7>46	1.118	4.067	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
23	136.7>46	1.537	5.532	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
24	136.7>46	0.279	1.559	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
25	284.6>61.9			15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	
26	369.1>91.3	37.367	8.413	15-Apr-10	01:21:00	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

1145

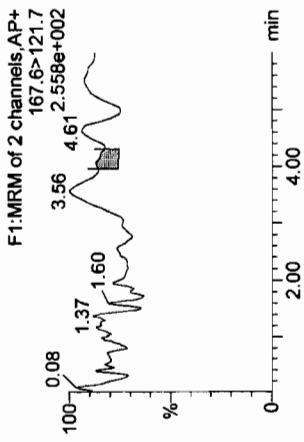
LOT # 489

# Quantify Sample Report MassLynx 4.1

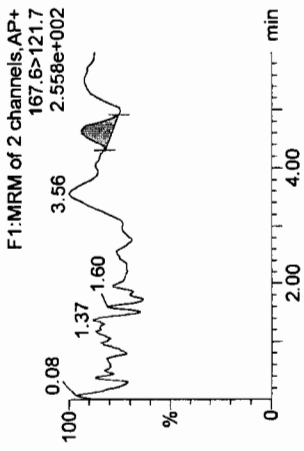
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141011  
 Date: 15-Apr-2010  
 Time: 02:01:05  
 ID: LXNKG1AD  
 Description: F0D080489-004  
 User: WH  
 Vial: 1:20  
 Instrument: LCMSMSR  
 Task:

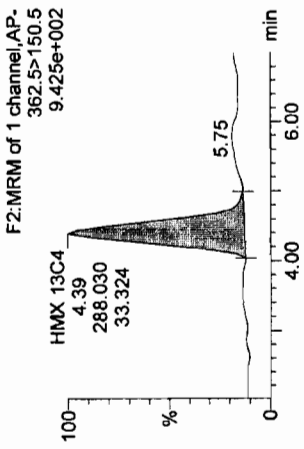
## 2,6-Diamino-4-nitrotoluene



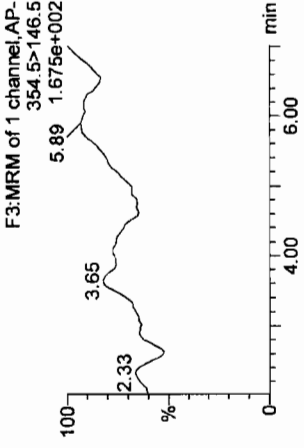
## 2,4-Diamino-6-nitrotoluene



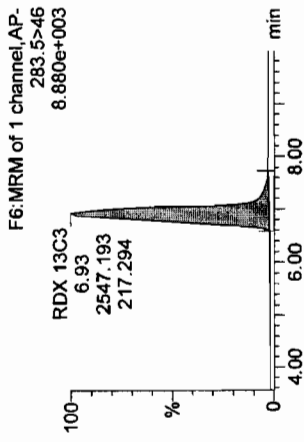
## HMX 13C4



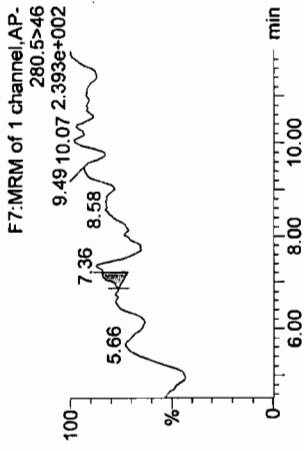
## HMX



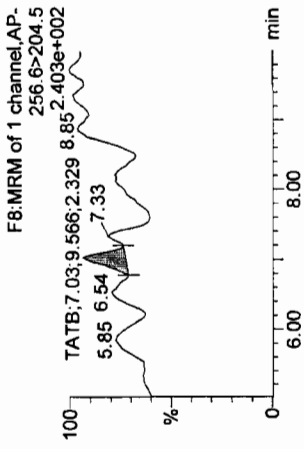
## RDX 13C3



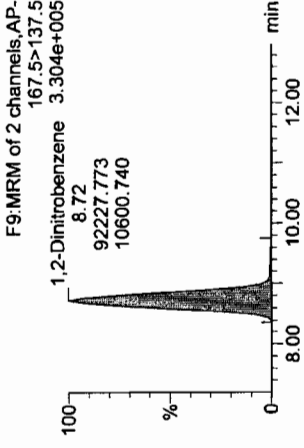
## RDX



## TATB



## 1,2-Dinitrobenzene



576 O 1145

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141011

Date: 15-Apr-2010

Time: 02:01:05

ID: LXNKG1AD

Description: F0D080489-004

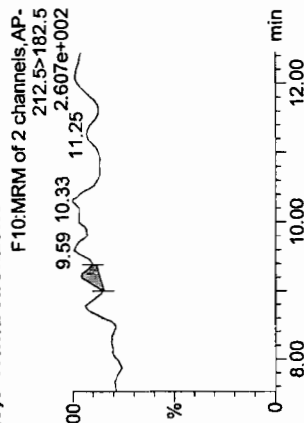
User: WH

Vial: 1:20

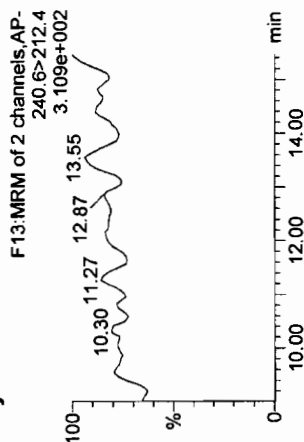
Instrument: LCMSMSR

Task:

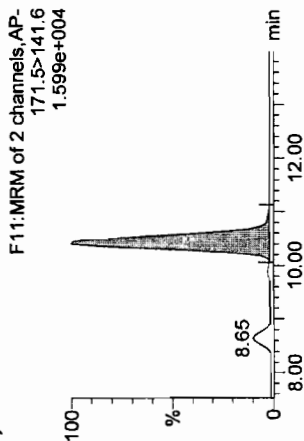
## 1,3,5-Trinitrobenzene



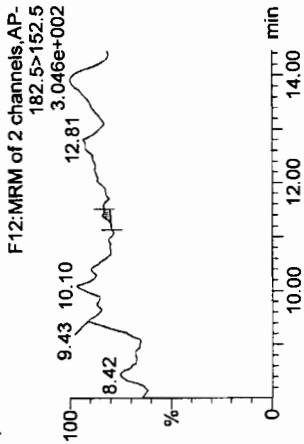
## Tetryl



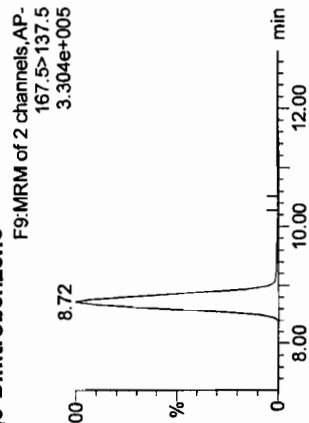
## 1,3-Dinitrobenzene D4



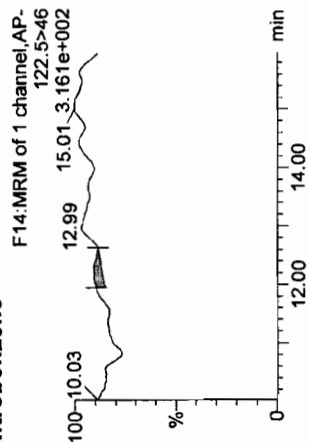
## 3,5-Dinitroaniline



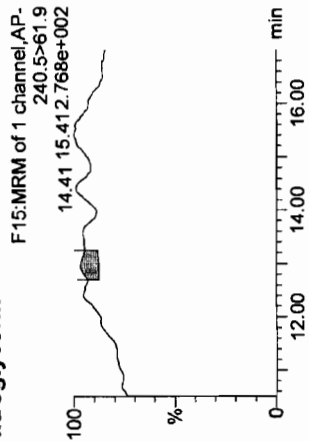
## 1,3-Dinitrobenzene



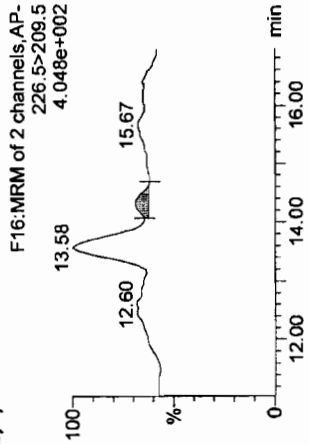
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



LOT

#

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141011

Date: 15-Apr-2010

Time: 02:01:05

ID: LXNKG1AD

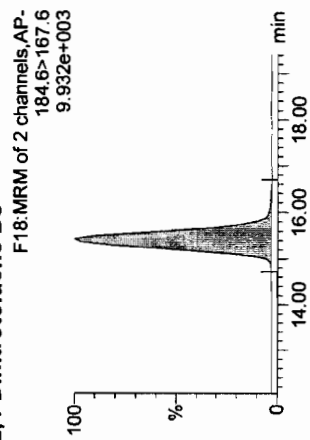
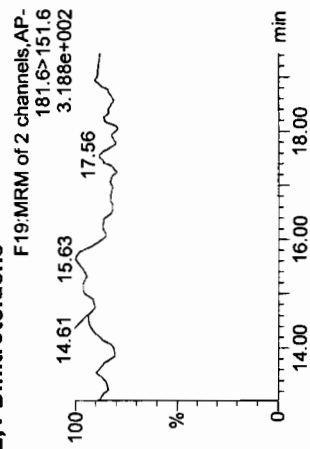
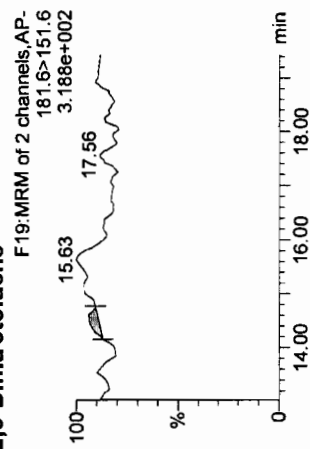
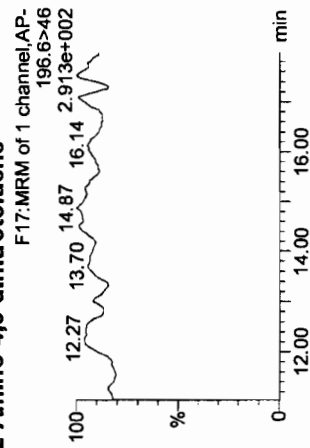
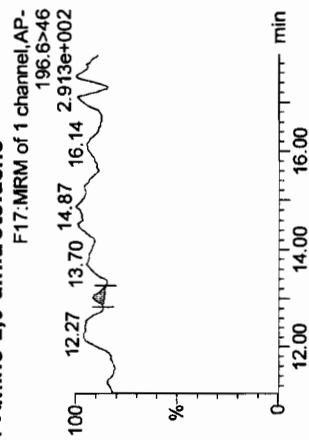
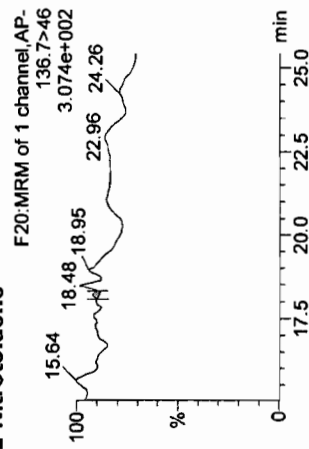
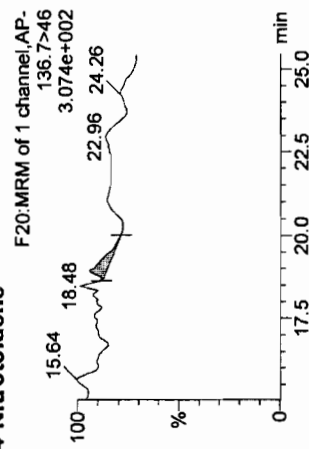
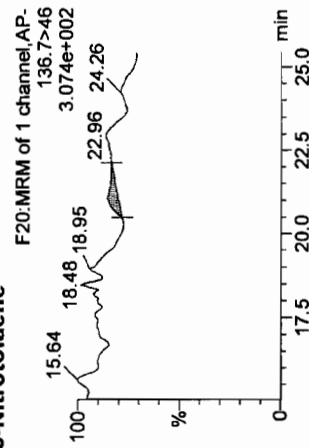
Description: F0D080489-004

User: WH

Vial: 1:20

Instrument: LCMSMSR

Task:

**2,4-Dinitrotoluene D3****2,4-Dinitrotoluene****2,6-Dinitrotoluene****2-Amino-4,6-dinitrotoluene****4-Amino-2,6-dinitrotoluene****2-Nitrotoluene****4-Nitrotoluene****3-Nitrotoluene**

578

Method 8321, Explosives By LCMSMS

1145



LOT

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141011

Date: 15-Apr-2010

Time: 02:01:05

ID: LXNKG1AD

Description: F0D080489-004

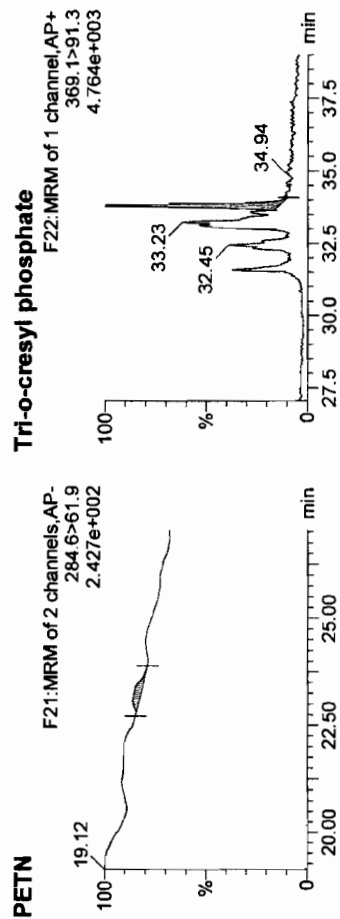
User: WH

Vial: 1:20

Instrument: LCMSMSR

Task:

PETN



579

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report      MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL18321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141011

Date: 15-Apr-2010

Time: 02:01:05

ID: LXNKG1AD

Description: F0D080489-004

User: WH

Vial: 1:20

Instrument: LCMSMSR

Task:

Wt  
4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Del Flags	up/Kg	%Rec
1...	2,6-Diamino-4-nitrotoluene	F0D080489-004	LXNKG1AD		4.082	8.521		8.521	dd	0.1933	
2...	2,4-Diamino-6-nitrotoluene	F0D080489-004	LXNKG1AD		4.609	12.929		12.929	db	1.6346	
3...	HMX 13C4	F0D080489-004	LXNKG1AD		4.385	288.030		288.030	bb	278.5580	55.712
4...	HMX	F0D080489-004	LXNKG1AD				288.030				
5...	RD 13C3	F0D080489-004	LXNKG1AD		6.928	2547.193		2547.193	bd	244.2031	97.681
6...	RD 13C3	F0D080489-004	LXNKG1AD		7.160	5.960		5.960	bd	5.8366	
7...	TATB	F0D080489-004	LXNKG1AD		7.030	9.566		9.566	bb	33.8796	
8...	1,2-Dinitrobenzene	F0D080489-004	LXNKG1AD		8.719	92227.773		1037.342	bb	2085.6085	104.280
9...	1,3,5-Trinitrobenzene	F0D080489-004	LXNKG1AD		9.214	5.500		0.062	dd	0.1394	
1...	Tetryl	F0D080489-004	LXNKG1AD				4445.390				
1...	1,3-Dinitrobenzene D4	F0D080489-004	LXNKG1AD		10.412	4445.390		4445.390	db	52.2518	104.504
1...	3,5-Dinitroaniline	F0D080489-004	LXNKG1AD		11.387	2.052		0.023	bd	0.0593	
1...	1,3-Dinitrobenzene	F0D080489-004	LXNKG1AD		10.275	4.895		0.055	db	0.5128	
1...	Nitrobenzene	F0D080489-004	LXNKG1AD		12.316	6.233		0.070	dbl		
1...	Nitroglycerin	F0D080489-004	LXNKG1AD		12.941	11.646		0.131	dd	20.8863	
1...	2,4,6-Trinitrotoluene	F0D080489-004	LXNKG1AD		14.305	9.840		0.111	db	0.0924	
1...	2,4-Dinitrotoluene D3	F0D080489-004	LXNKG1AD		15.436	4201.742		4201.742	bb	24.9873	99.949
1...	2,4-Dinitrotoluene	F0D080489-004	LXNKG1AD				4201.742				
1...	2,6-Dinitrotoluene	F0D080489-004	LXNKG1AD		14.613	5.948		0.035	bb	0.1732	
2...	2-Amino-4,6-dinitrotoluene	F0D080489-004	LXNKG1AD				4201.742				
2...	4-Amino-2,6-dinitrotoluene	F0D080489-004	LXNKG1AD		13.016	3.123		0.019	bb	0.2912	
2...	2-Nitrotoluene	F0D080489-004	LXNKG1AD		18.227	1.732		0.010	bd	3.1848	
2...	4-Nitrotoluene	F0D080489-004	LXNKG1AD		18.952	13.641		0.081	db	60.9239	
2...	3-Nitrotoluene	F0D080489-004	LXNKG1AD		21.078	13.632		0.081	bb	43.1066	
2...	PETN	F0D080489-004	LXNKG1AD		23.068	5.493		0.033	bb	4.6135	
2...	Tri-o-cresyl phosphate	F0D080489-004	LXNKG1AD		33.814	562.335		562.335	dbl		

Method 8321, Explosives By LCMSMS

1145

LOT

# **Quantify Sample Report**

TestAmerica, INC. St. Louis

MassLynx 4.1

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141011

Date: 15-Apr-2010

Time: 02:01:05

ID: LXNKG1AD

Description: F0D080489-004

User: WH

Vial: 1:20

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Wt./Volume (g/L)	Final Volume (mL)	Prep. Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	1.517	3.403	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
2	167.6>121.7	2.041	3.016	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
3	362.5>150.5	33.324	2.854	15-Apr-10	02:01:05	1.000	1.000	1.000	1.000	1.000
4	354.5>146.5			15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
5	283.5>46	217.294	3.410	15-Apr-10	02:01:05	1.000	1.000	1.000	1.000	1.000
6	280.5>46	2.323	4.866	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
7	256.6>204.5	2.329	5.227	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
8	167.5>137.5	10600....	3.578	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
9	212.5>182.5	1.376	4.364	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
10	240.6>212.4			15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
11	171.5>141.6	846.728	3.531	15-Apr-10	02:01:05	1.000	1.000	1.000	1.000	1.000
12	182.5>152.5	0.485	5.848	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
13	167.5>137.5	0.610	3.882	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
14	122.5>46	0.848	1.765	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
15	240.5>61.9	1.456	2.147	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
16	226.5>209.5	2.293	2.744	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
17	184.6>167.6	897.262	2.296	15-Apr-10	02:01:05	1.000	1.000	1.000	1.000	1.000
18	181.6>151.6			15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
19	181.6>151.6	0.930	2.354	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
20	196.6>46			15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
21	196.6>46	0.972	5.443	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
22	136.7>46	0.925	5.774	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
23	136.7>46	2.405	1.906	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
24	136.7>46	1.480	1.174	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
25	284.6>61.9	1.708	1.456	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000
26	369.1>91.3	89.778	7.284	15-Apr-10	02:01:05	2.000	10.000	2.000	1.000	1.000

Method 8321, Explosives By LCMSMS

1145

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141012

Date: 15-Apr-2010

Time: 02:41:10

ID: LXNKH1AD

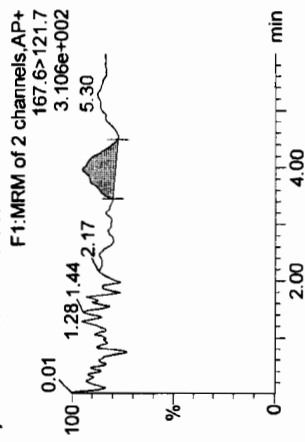
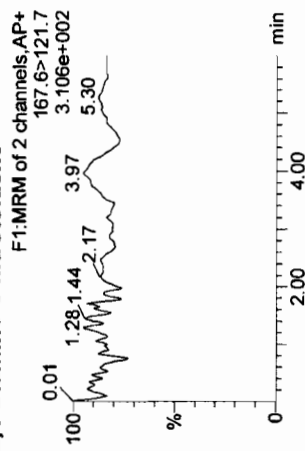
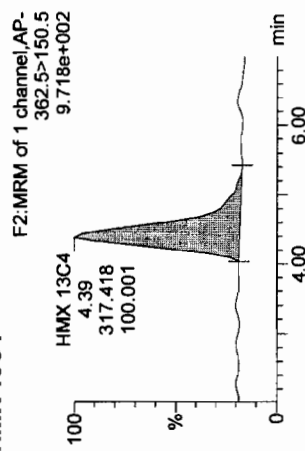
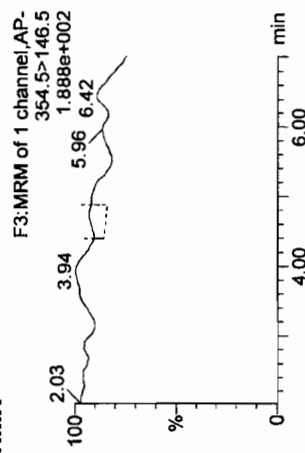
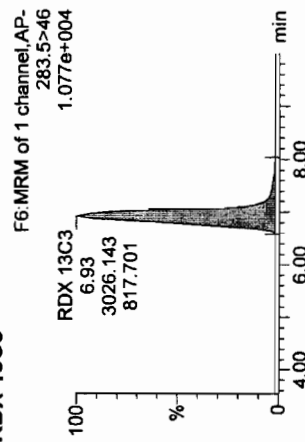
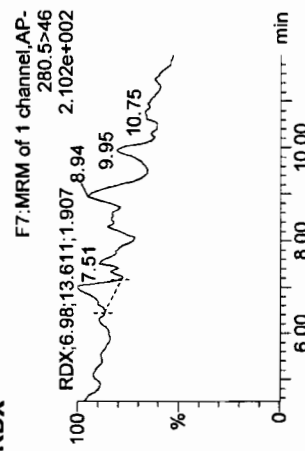
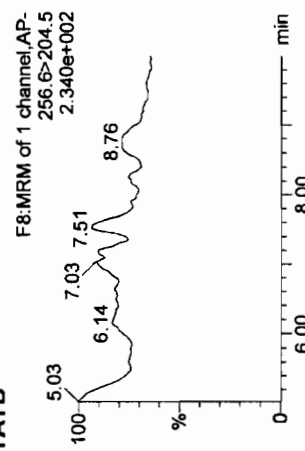
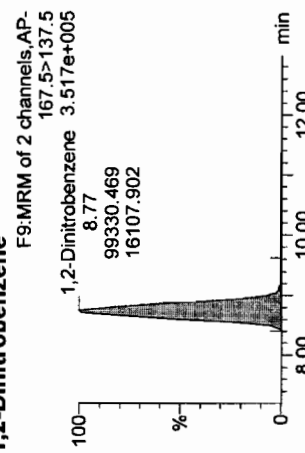
Description: F0D080489-005

User: WH

Vial: 1:21

Instrument: LCMSMSR

Task:

**2,6-Diamino-4-nitrotoluene****2,4-Diamino-6-nitrotoluene****HMX 13C4****HMX****RDX 13C3****RDX****TATB****1,2-Dinitrobenzene**

LOT #

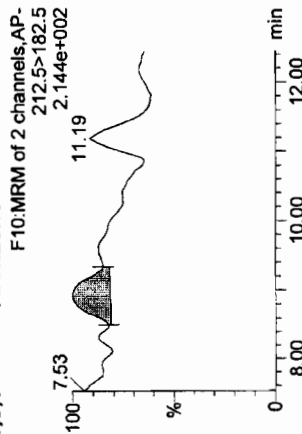
**Quantify Sample Report** **MassLynx 4.1**

TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

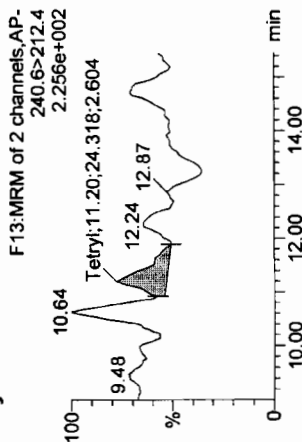
489

**Name:** R04141012  
**Date:** 15-Apr-2010  
**Time:** 02:41:10  
**ID:** LXNKH1AD  
**Description:** F0D080489-005  
**User:** WH  
**Vial:** 1:21  
**Instrument:** LCMSMSR  
**Task:**

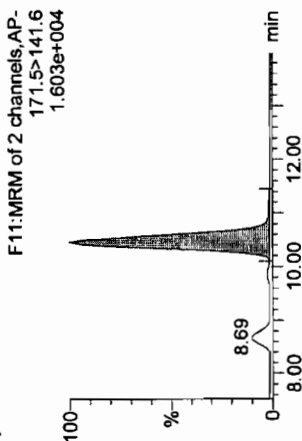
**1,3,5-Trinitrobenzene**



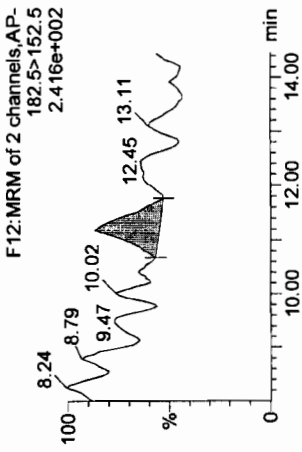
**Tetryl**



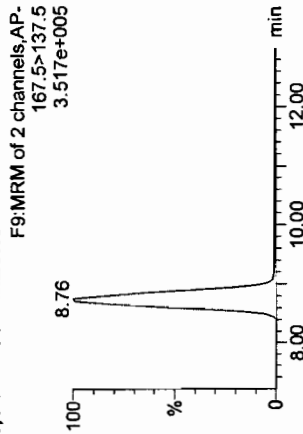
**1,3-Dinitrobenzene D4**



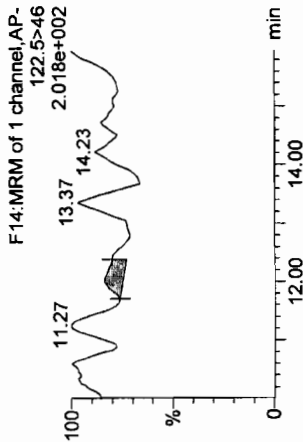
**3,5-Dinitroaniline**



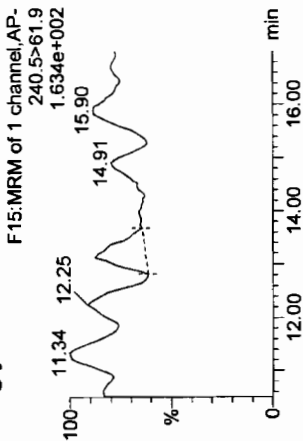
**1,3-Dinitrobenzene**



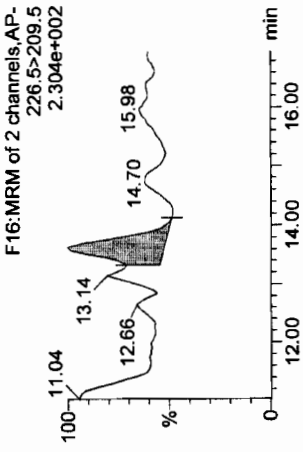
**Nitrobenzene**



**Nitroglycerin**



**2,4,6-Trinitrotoluene**



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Method 8321, Explosives By LCMSMS

1145

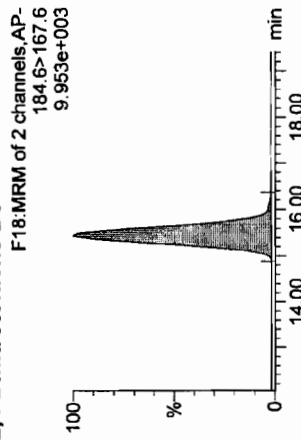
LOT

# Quantify Sample Report MassLynx 4.1

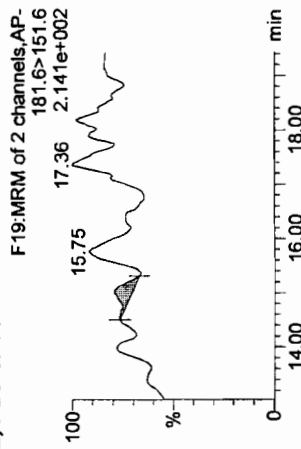
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives PRO\DataSetSavedExp\RO41410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141012  
 Date: 15-Apr-2010  
 Time: 02:41:10  
 ID: LXNKH1AD  
 Description: F0D080489-005  
 User: WH  
 Vial: 1:21  
 Instrument: LCMSMSR  
 Task:

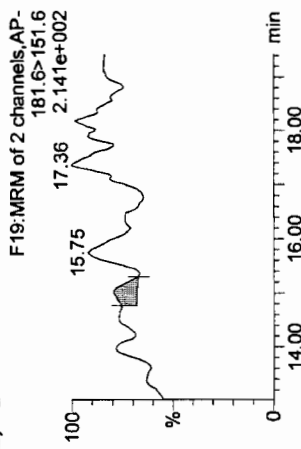
2,4-Dinitrotoluene D3



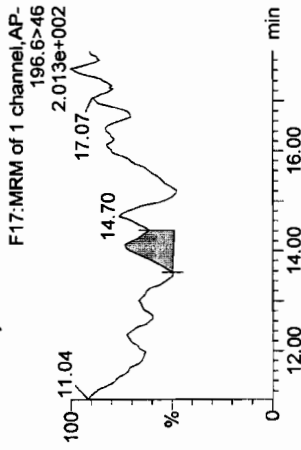
2,4-Dinitrotoluene



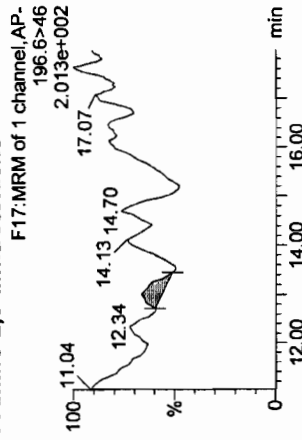
2,6-Dinitrotoluene



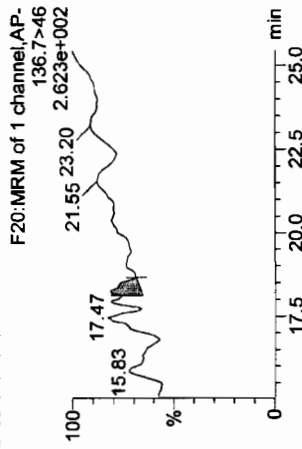
2-Amino-4,6-dinitrotoluene



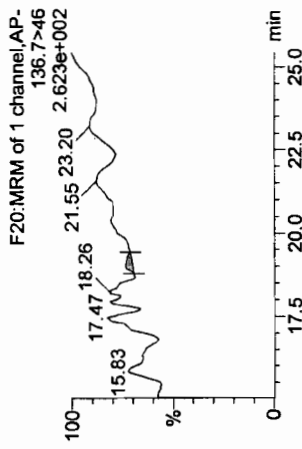
4-Amino-2,6-dinitrotoluene



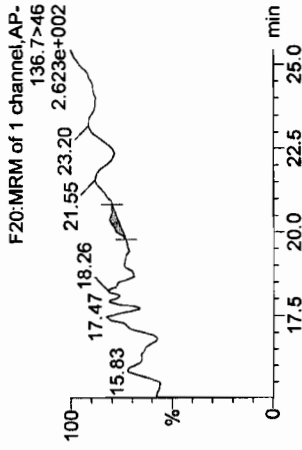
2-Nitrotoluene



4-Nitrotoluene



3-Nitrotoluene



584

Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

89

Name: R04141012

Date: 15-Apr-2010

Time: 02:41:10

ID: LXNKH1AD

Description: F0D080489-005

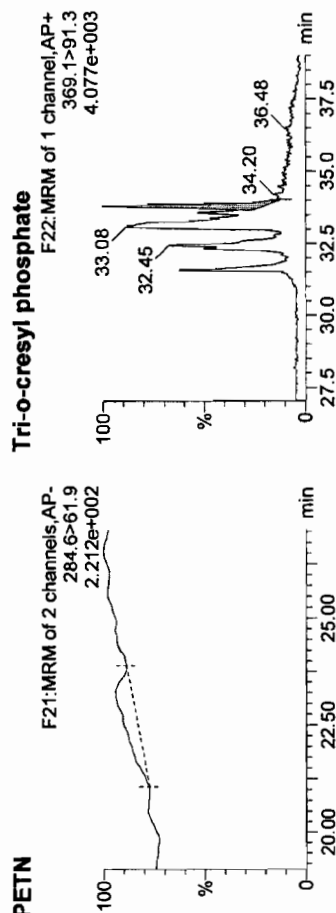
User: WH

Vial: 1:21

Instrument: LCMSMSR

Task:

PETN



585 O 1145

Method 8321, Explosives By LCMSMS

LOT

#

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141012

Date: 15-Apr-2010

Time: 02:41:10

ID: LXNKH1AD

Description: F0D080489-005

User: WH

Vial: 1:21

Instrument: LCMSMSR

Task:

#	Name	Sample Text	ID	Std. Conc.	RT	Area	IS Area	Response	Det Flags	ug/Kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-005	LXNKH1AD		3.967	30.009		30.009	bb	0.6809	
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-005	LXNKH1AD								
3	3... HMX 13C4	F0D080489-005	LXNKH1AD		4.385	317.418		317.418	bb	306.9796	61.396
4	4... HMX	F0D080489-005	LXNKH1AD				317.418		MM-		
5	5... RDX 13C3	F0D080489-005	LXNKH1AD		6.928	3026.143		3026.143	bb	290.1208	116.048
6	6... RDX	F0D080489-005	LXNKH1AD				3026.143		MM-		
7	7... TATB	F0D080489-005	LXNKH1AD								
8	8... 1,2-Dinitrobenzene	F0D080489-005	LXNKH1AD		8.765	99330.469		1098.554	bb	2208.6768	110.434
9	9... 1,3,5-Trinitrobenzene	F0D080489-005	LXNKH1AD		8.959	21.336		0.236	dd	0.5318	
10	1... Tetra	F0D080489-005	LXNKH1AD		11.202	24.318		0.269	db	1.2010	
11	1... 1,3-Dinitrobenzene D4	F0D080489-005	LXNKH1AD		10.452	4520.966		4520.966	db	53.1401	106.280
12	1... 3,5-Dinitroaniline	F0D080489-005	LXNKH1AD		11.199	38.469		0.425	bb	1.0923	
13	1... 1,3-Dinitrobenzene	F0D080489-005	LXNKH1AD								
14	1... Nitrobenzene	F0D080489-005	LXNKH1AD		12.024	9.157		0.101	ddl		
15	1... Nitroglycerin	F0D080489-005	LXNKH1AD						MM-		
16	1... 2,4,6-Trinitrotoluene	F0D080489-005	LXNKH1AD		13.638	42.255		0.467	db	0.3902	
17	1... 2,4-Dinitrotoluene D3	F0D080489-005	LXNKH1AD		15.436	4240.642		4240.642	bb	25.2186	100.874
18	1... 2,4-Dinitrotoluene	F0D080489-005	LXNKH1AD		15.052	6.928		0.041	bb	1.0391	
19	1... 2,6-Dinitrotoluene	F0D080489-005	LXNKH1AD		15.052	9.470		0.056	db	0.2733	
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-005	LXNKH1AD		14.131	24.922		0.147	bd	1.8582	
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-005	LXNKH1AD		13.016	8.997		0.053	bb	0.8312	
22	2... 2-Nitrotoluene	F0D080489-005	LXNKH1AD		18.259	13.841		0.082	db	25.2174	
23	2... 4-Nitrotoluene	F0D080489-005	LXNKH1AD		19.015	3.487		0.021	bb	13.9673	
24	2... 3-Nitrotoluene	F0D080489-005	LXNKH1AD		20.372	6.265		0.037	bb	19.6292	
25	2... PETN	F0D080489-005	LXNKH1AD						MM-		
26	2... Tri-o-cresyl phosphate	F0D080489-005	LXNKH1AD		33.814	492.204		492.204	ddl		

Method 8321, Explosives By LCMSMS

1145

wt  
4/16/10



## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141012

Date: 15-Apr-2010

Time: 02:41:10

ID: LXNKH1AD

Description: F0D080489-005

User: WH

Vial: 1:21

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt./Volume (g/...	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	2.307	1.699	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
2	167.6>121.7			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
3	362.5>150.5	100.001	2.505	15-Apr-10	02:41:10	1.000	1.000	1.000	1.000	
4	354.5>146.5			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
5	283.5>46	817.701	3.492	15-Apr-10	02:41:10	1.000	1.000	1.000	1.000	
6	280.5>46			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
7	256.6>204.5			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
8	167.5>137.5	16107....	3.535	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
9	212.5>182.5	3.235	1.875	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
10	240.6>212.4	2.604	2.262	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
11	171.5>141.6	971.420	3.503	15-Apr-10	02:41:10	1.000	1.000	1.000	1.000	
12	182.5>152.5	3.937	1.976	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
13	167.5>137.5			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
14	122.5>46	1.374	2.075	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
15	240.5>61.9			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
16	226.5>209.5	4.899	2.603	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
17	184.6>167.6	400.345	2.305	15-Apr-10	02:41:10	1.000	1.000	1.000	1.000	
18	181.6>151.6	2.186	2.887	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
19	181.6>151.6	2.732	2.640	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
20	196.6>46	1.736	1.966	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
21	196.6>46	0.709	2.223	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
22	136.7>46	2.101	2.890	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
23	136.7>46	0.473	2.581	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
24	136.7>46	0.578	1.756	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
25	284.6>61.9			15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	
26	369.1>91.3	58.103	6.625	15-Apr-10	02:41:10	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

LOT

# Quantify Sample Report      MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141013

Date: 15-Apr-2010

Time: 03:21:14

ID: LXNKJ1AD

Description: F0D080489-006

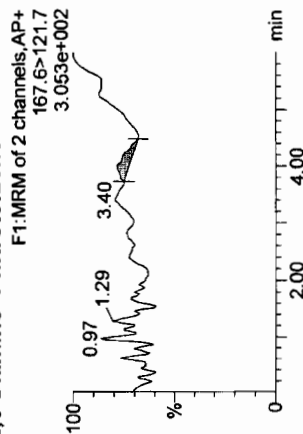
User: WH

Vial: 1:22

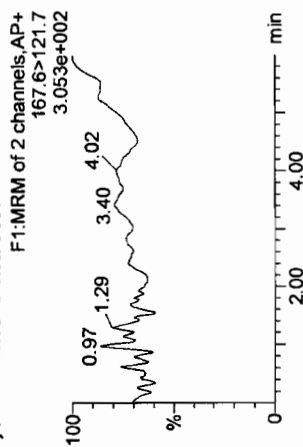
Instrument: LCMSMSR

Task:

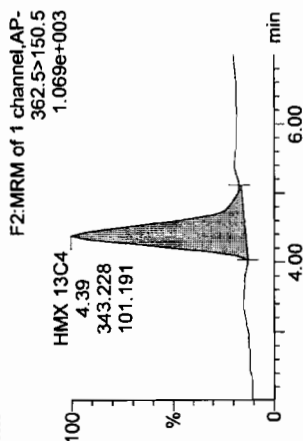
## 2,6-Diamino-4-nitrotoluene



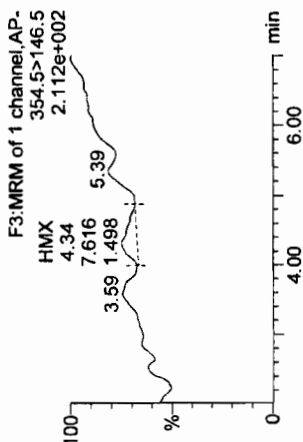
## 2,4-Diamino-6-nitrotoluene



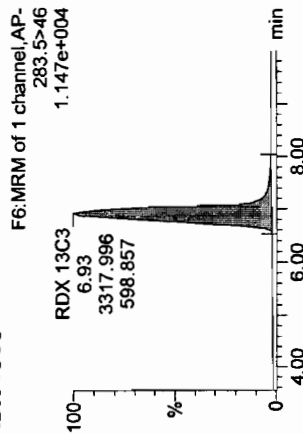
## HMX 13C4



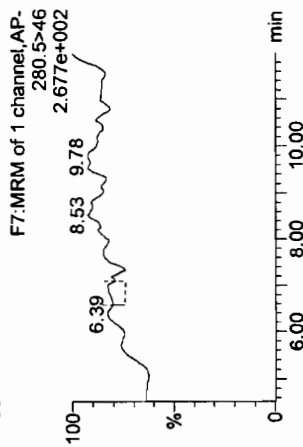
## HMX



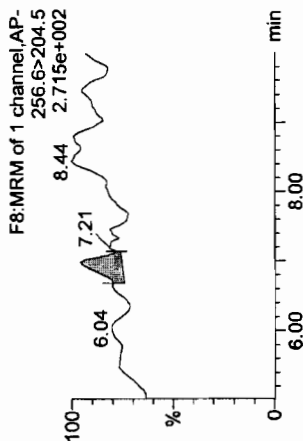
## RDX 13C3



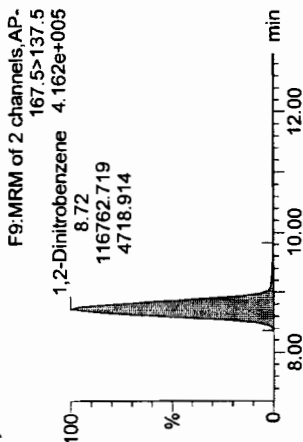
## RDX



## TATB



## 1,2-Dinitrobenzene



588

Method 8321, Explosives By LCMSMS

1145

LOT

#

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSaved\ExpR041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141013

Date: 15-Apr-2010

Time: 03:21:14

ID: LXNKJ1AD

Description: F0D080489-006

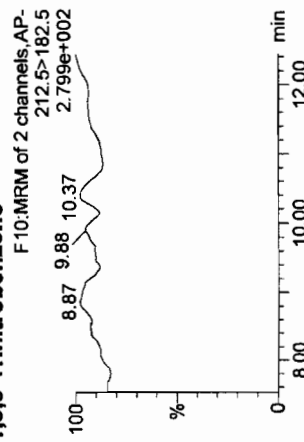
User: WH

Vial: 1:22

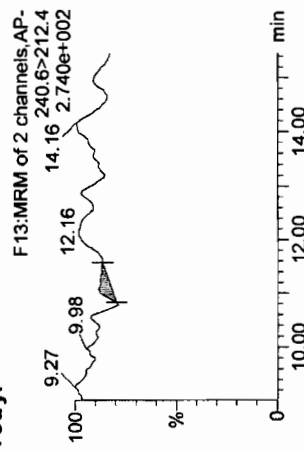
Instrument: LCMSMSR

Task:

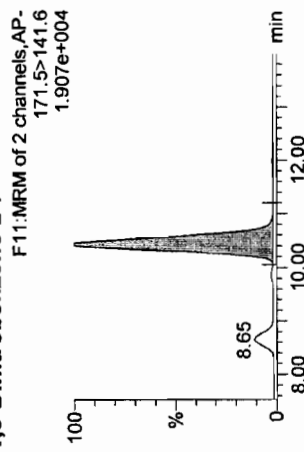
## 1,3,5-Trinitrobenzene



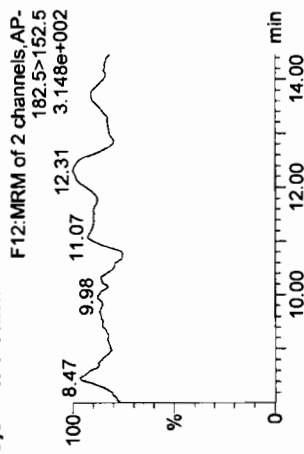
## Tetryl



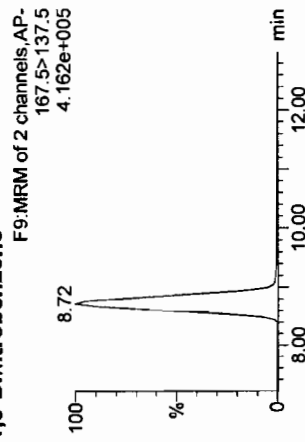
## 1,3-Dinitrobenzene D4



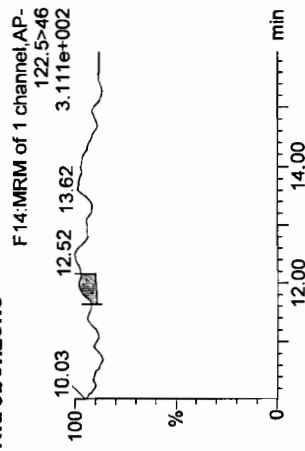
## 3,5-Dinitroaniline



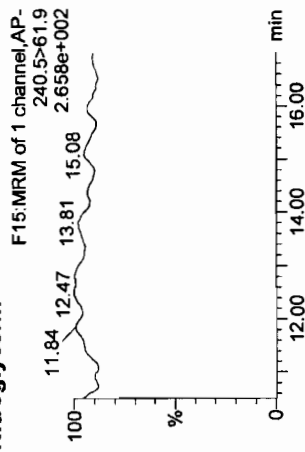
## 1,3-Dinitrobenzene



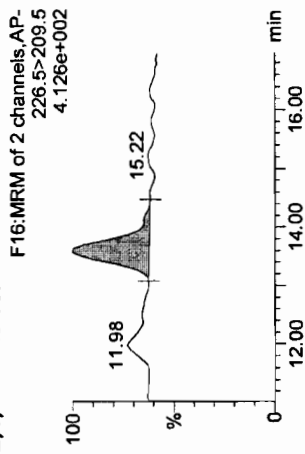
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



589

Method 8321, Explosives By LCMSMS

1145

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141013

Date: 15-Apr-2010

Time: 03:21:14

ID: LXNKJ1AD

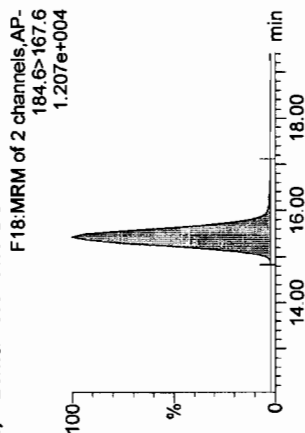
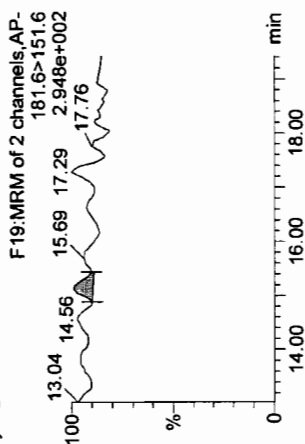
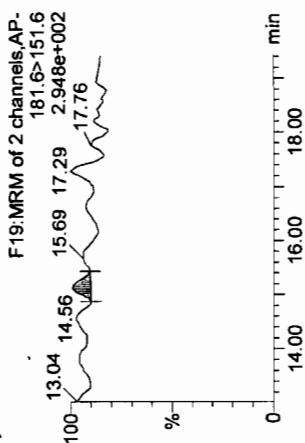
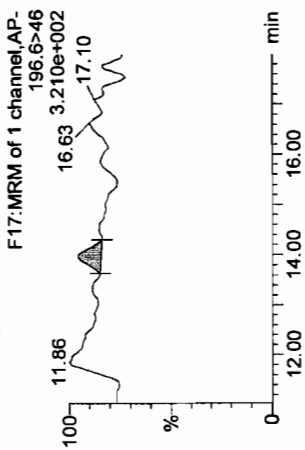
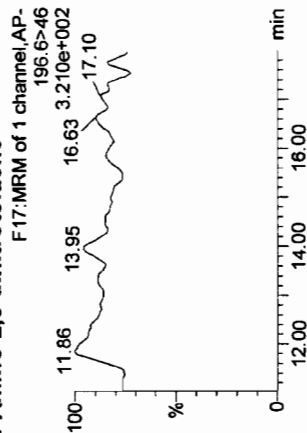
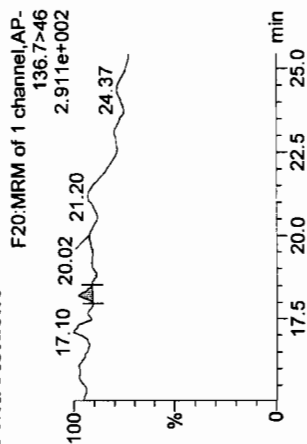
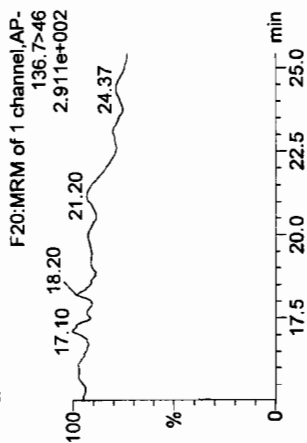
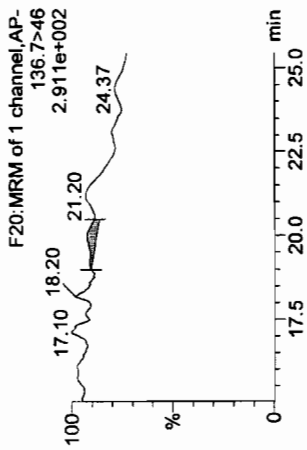
Description: F0D080489-006

User: WH

Vial: 1:22

Instrument: LCMSMSR

Task:

**2,4-Dinitrotoluene D3****2,4-Dinitrotoluene****2,6-Dinitrotoluene****2-Amino-4,6-dinitrotoluene****4-Amino-2,6-dinitrotoluene****2-Nitrotoluene****4-Nitrotoluene****3-Nitrotoluene**

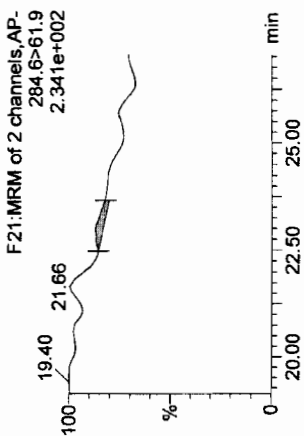
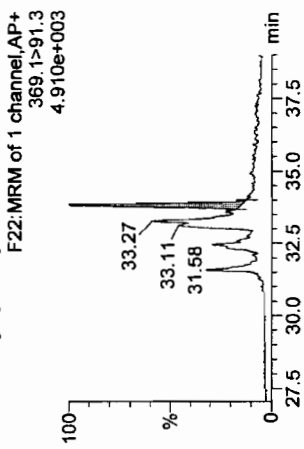
LOT

#

**Quantify Sample Report**      **MassLynx 4.1**  
Test America, INC. St. Louis  
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

**Name:** R04141013  
**Date:** 15-Apr-2010  
**Time:** 03:21:14  
**ID:** LXNKJ1AD  
**Description:** F0D080489-006  
**User:** WH  
**Vial:** 1:22  
**Instrument:** LCMSMSR  
**Task:**

**PETN****Tri-o-cresyl phosphate**

591

Method 8321, Explosives By LCMSMS

1145

LOT #

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141013

Date: 15-Apr-2010

Time: 03:21:14

ID: LXNKJ1AD

Description: F0D080489-006

User: WH

Vial: 1:22

Instrument: LCMSMSR

Task:

3#  
4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det. Flags	ug/Kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-006	LXNKJ1AD		4.025	7.642		7.642	bb	0.1734	
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-006	LXNKJ1AD								
3	3... HMX 13C4	F0D080489-006	LXNKJ1AD		4.385	343.228		343.228	bd	331.9408	66.388
4	4... HMX	F0D080489-006	LXNKJ1AD				343.228		MM-		
5	5... RDX 13C3	F0D080489-006	LXNKJ1AD		6.928	3317.996		3317.996	bb	318.1012	127.240
6	6... RDX	F0D080489-006	LXNKJ1AD						MM-		
7	7... TATB	F0D080489-006	LXNKJ1AD		6.983	14.684		14.684	dd	52.0058	
8	8... 1,2-Dinitrobenzene	F0D080489-006	LXNKJ1AD		8.719	116762.719		1063.756	bb	2138.7146	106.936
9	9... 1,3,5-Trinitrobenzene	F0D080489-006	LXNKJ1AD				5488.230				
10	1... Tetryl	F0D080489-006	LXNKJ1AD		11.077	7.162		0.065	bb	0.2914	
11	1... 1,3-Dinitrobenzene D4	F0D080489-006	LXNKJ1AD		10.412	5488.230		5488.230	db	64.5095	129.019
12	1... 3,5-Dinitroaniline	F0D080489-006	LXNKJ1AD				5488.230				
13	1... 1,3-Dinitrobenzene	F0D080489-006	LXNKJ1AD		11.962	10.839		0.099	ddl		
14	1... Nitrobenzene	F0D080489-006	LXNKJ1AD				5488.230				
15	1... Nitroglycerin	F0D080489-006	LXNKJ1AD				5488.230				
16	1... 2,4,6-Trinitrotoluene	F0D080489-006	LXNKJ1AD		13.575	71.053		0.647	bb	0.5405	
17	1... 2,4-Dinitrotoluene D3	F0D080489-006	LXNKJ1AD		15.436	5118.007		5118.007	bb	30.4362	121.745
18	1... 2,4-Dinitrotoluene	F0D080489-006	LXNKJ1AD		15.117	8.777		0.043	bd	1.0908	
19	1... 2,6-Dinitrotoluene	F0D080489-006	LXNKJ1AD		15.117	7.579		0.037	bb	0.1812	
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-006	LXNKJ1AD		13.952	12.621		0.062	bb	0.7797	
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-006	LXNKJ1AD				5118.007				
22	2... 2-Nitrotoluene	F0D080489-006	LXNKJ1AD		18.196	5.086		0.025	bb	7.6779	
23	2... 4-Nitrotoluene	F0D080489-006	LXNKJ1AD				5118.007				
24	2... 3-Nitrotoluene	F0D080489-006	LXNKJ1AD		20.019	11.904		0.058	bd	30.9033	
25	2... PETN	F0D080489-006	LXNKJ1AD		22.951	7.350		0.036	bd	5.0680	
26	2... Tri-o-cresyl phosphate	F0D080489-006	LXNKJ1AD		33.828	531.327		531.327	bbl		

Method 8321, Explosives By LCMSMS

1145

LOT

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141013

Date: 15-Apr-2010

Time: 03:21:14

ID: LXNKJ1AD

Description: F0D080489-006

User: WH

Vial: 1:22

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Vol/Volume (g/L)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	1.013	2.486	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
2	167.6>121.7			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
3	362.5>150.5	101.191	2.686	15-Apr-10	03:21:14	1.000	1.000	1.000	1.000	
4	354.5>146.5			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
5	283.5>46	598.857	3.387	15-Apr-10	03:21:14	1.000	1.000	1.000	1.000	
6	280.5>46			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
7	256.6>204.5	2.252	3.814	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
8	167.5>137.5	4718.9...	3.561	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
9	212.5>182.5			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
10	240.6>212.4	0.742	2.513	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
11	171.5>141.6	447.459	3.424	15-Apr-10	03:21:14	1.000	1.000	1.000	1.000	
12	182.5>152.5			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
13	167.5>137.5			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
14	122.5>46	2.352	2.491	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
15	240.5>61.9			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
16	226.5>209.5	17.625	2.210	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
17	184.6>167.6	1248.1...	2.305	15-Apr-10	03:21:14	1.000	1.000	1.000	1.000	
18	181.6>151.6	1.602	3.190	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
19	181.6>151.6	1.488	3.431	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
20	196.6>46	1.673	2.932	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
21	196.6>46			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
22	136.7>46	1.676	3.932	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
23	136.7>46			15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
24	136.7>46	1.173	1.176	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
25	284.6>61.9	1.066	1.088	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	
26	369.1>91.3	102.133	7.850	15-Apr-10	03:21:14	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

1145

LOT # 489

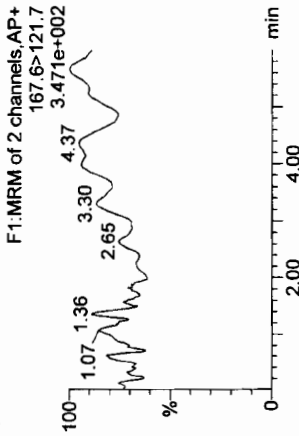
# Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL8321\_SMP2\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

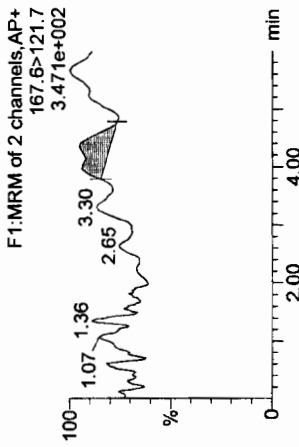
Method: C:\MassLynx\Explosives.PRO\MethDB\8321MRM\_SOILQC\_MAR2010.mdb 21 Mar 2010 09:55:40  
 Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141015  
 Date: 15-Apr-2010  
 Time: 04:41:32  
 ID: LXNKL1AD  
 Description: F0D080489-007  
 User: WH  
 Vial: 1:23  
 Instrument: LCMSMSR  
 Task:

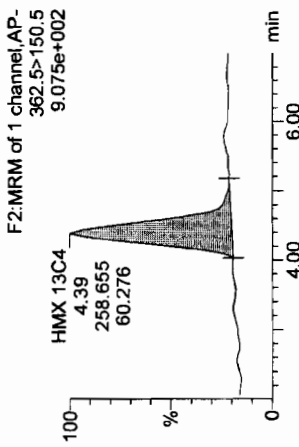
## 2,6-Diamino-4-nitrotoluene



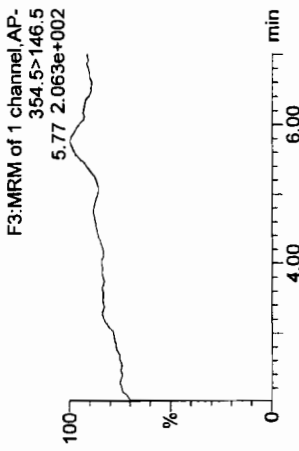
## 2,4-Diamino-6-nitrotoluene



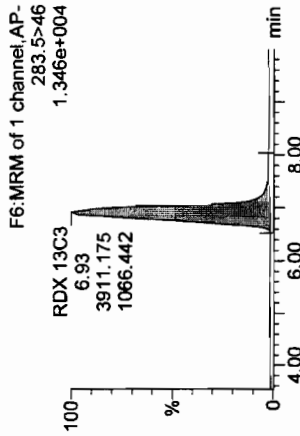
## HMX 13C4



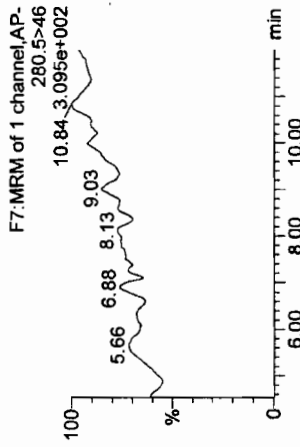
## HMX



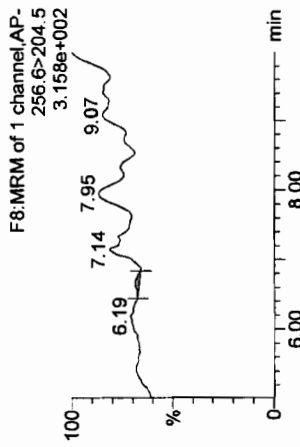
## RDX 13C3



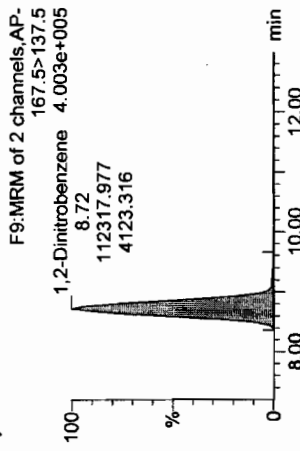
## RDX



## TATB



## 1,2-Dinitrobenzene



594 1145

Method 8321, Explosives By LCMSMS



## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\data\SetSavedExp\R041410\_LANL8321\_SMP2\_041410.qld

Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time

Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

Name: R04141015

Date: 15-Apr-2010

Time: 04:41:32

ID: LXNKL1AD

Description: F0D080489-007

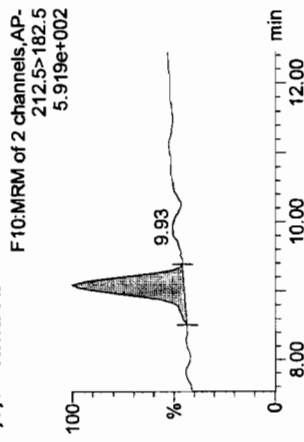
User: WH

Vial: 1:23

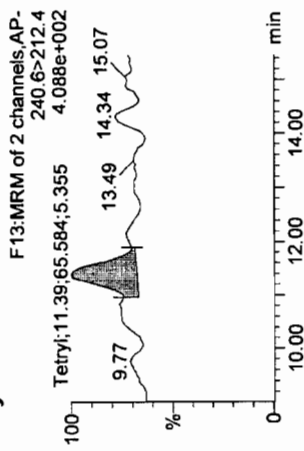
Instrument: LCMSMSR

Task:

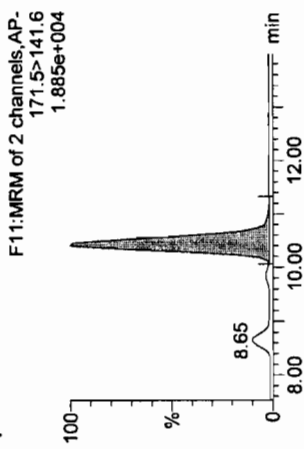
## 1,3,5-Trinitrobenzene



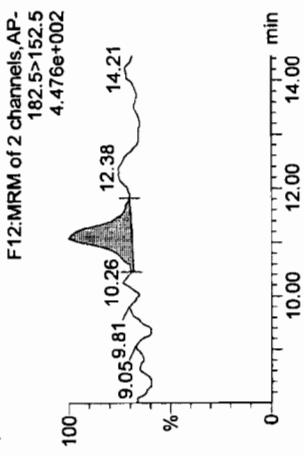
## Tetryl



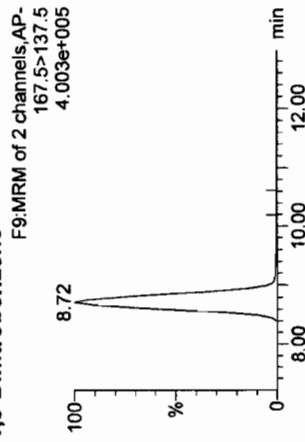
## 1,3-Dinitrobenzene D4



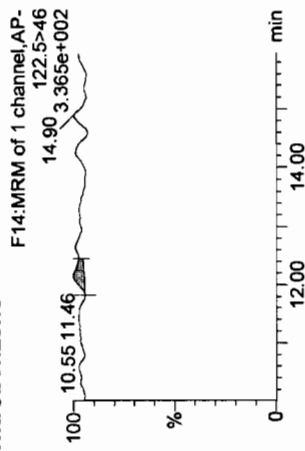
## 3,5-Dinitroaniline



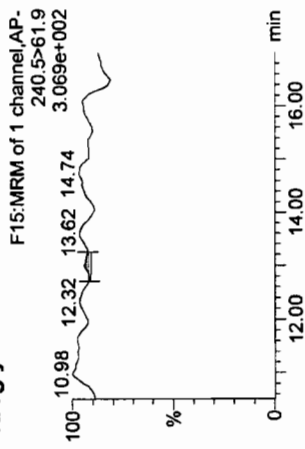
## 1,3-Dinitrobenzene



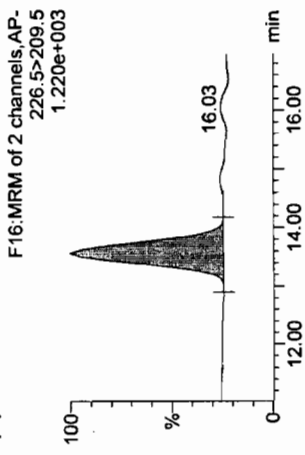
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LAN\8321\_SMP2\_041410.qld

Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time

Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

Name: R04141015

Date: 15-Apr-2010

Time: 04:41:32

ID: LXNKL1AD

Description: F0D080489-007

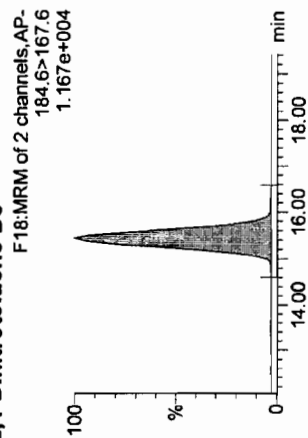
User: WH

Vial: 1:23

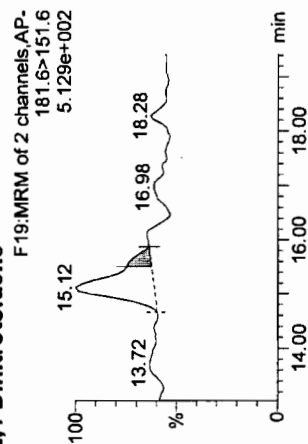
Instrument: LCMSMSR

Task:

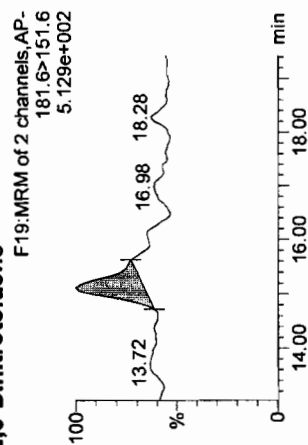
## 2,4-Dinitrotoluene D3



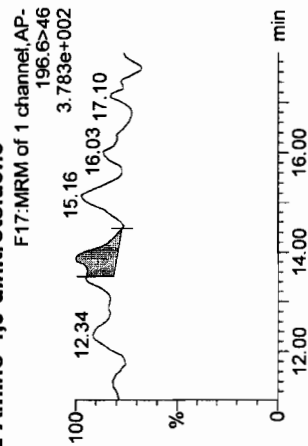
## 2,4-Dinitrotoluene



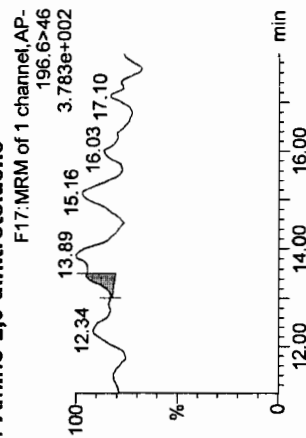
## 2,6-Dinitrotoluene



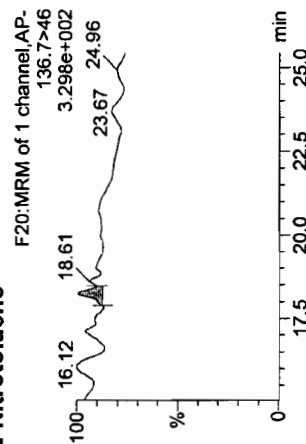
## 2-Amino-4,6-dinitrotoluene



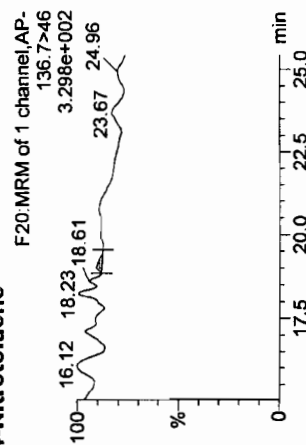
## 4-Amino-2,6-dinitrotoluene



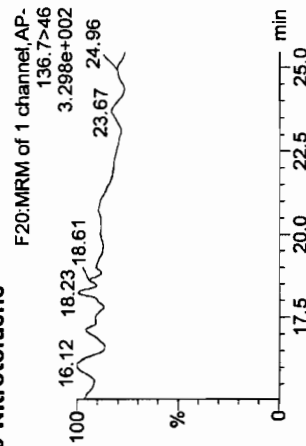
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



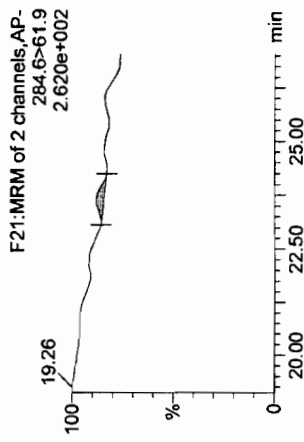
LOT # 89

## Quantify Sample Report MassLynx 4.1

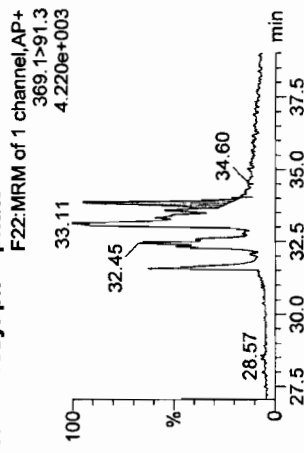
Test America, INC. St. Louis  
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP2\_041410.qld  
Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time  
Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

Name: R04141015  
Date: 15-Apr-2010  
Time: 04:41:32  
ID: LXNKL1AD  
Description: F0D080489-007  
User: WH  
Vial: 1:23  
Instrument: LCMSMSR  
Task:

## PETN



## Tri-o-cresyl phosphate



597 O 1145

Method 8321, Explosives By LCMSMS

LOT

#

## Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP2\_041410.qld

Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time

Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

Name: R04141015

Date: 15-Apr-2010

Time: 04:41:32

ID: LXNKL1AD

Description: F0D080489-007

User: WH

Vial: 1:23

Instrument: LCMSMSR

Task:

1. Peak Not Found  
 2. Incomplete Sample  
 3. Vial Empty  
 4. Other

3  
 4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	Up/Kg	%Rec
1...	2,6-Diamino-4-nitrotoluene	F0D080489-007	LXNKL1AD								
2...	2,4-Diamino-6-nitrotoluene	F0D080489-007	LXNKL1AD								
3...	HMX 13C4	F0D080489-007	LXNKL1AD								
4...	HMX	F0D080489-007	LXNKL1AD								
5...	RD 13C3	F0D080489-007	LXNKL1AD								
6...	RD 13C3	F0D080489-007	LXNKL1AD								
7...	TATB	F0D080489-007	LXNKL1AD								
8...	1,2-Dinitrobenzene	F0D080489-007	LXNKL1AD								
9...	1,3,5-Trinitrobenzene	F0D080489-007	LXNKL1AD								
10...	Tetryl	F0D080489-007	LXNKL1AD								
11...	1,3-Dinitrobenzene D4	F0D080489-007	LXNKL1AD								
12...	3,5-Dinitroaniline	F0D080489-007	LXNKL1AD								
13...	1,3-Dinitrobenzene	F0D080489-007	LXNKL1AD								
14...	Nitrobenzene	F0D080489-007	LXNKL1AD								
15...	Nitroglycerin	F0D080489-007	LXNKL1AD								
16...	2,4,6-Trinitrotoluene	F0D080489-007	LXNKL1AD								
17...	2,4-Dinitrotoluene D3	F0D080489-007	LXNKL1AD								
18...	2,4-Dinitrotoluene	F0D080489-007	LXNKL1AD								
19...	2,6-Dinitrotoluene	F0D080489-007	LXNKL1AD								
20...	2-Amino-4,6-dinitrotoluene	F0D080489-007	LXNKL1AD								
21...	4-Amino-2,6-dinitrotoluene	F0D080489-007	LXNKL1AD								
22...	2-Nitrotoluene	F0D080489-007	LXNKL1AD								
23...	4-Nitrotoluene	F0D080489-007	LXNKL1AD								
24...	3-Nitrotoluene	F0D080489-007	LXNKL1AD								
25...	PETN	F0D080489-007	LXNKL1AD								
26...	Tri-o-cresyl phosphate	F0D080489-007	LXNKL1AD								

Method 8321, Explosives By LCMSMS

1145

LOT #

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PROData\SetSavedExp\R041410\_LANL8321\_SMP2\_041410.qld

Last Altered: Thursday, April 15, 2010 12:58:33 Central Daylight Time

Printed: Friday, April 16, 2010 16:15:21 Central Daylight Time

1489

Name: R04141015

Date: 15-Apr-2010

Time: 04:41:32

ID: LKNKL1AD

Description: F0D080489-007

User: WH

Vial: 1:23

Instrument: LCMSMSR

Task:

Trace	Seq. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Wt. Volume (g/	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7			15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
2	167.6>121.7	1.054	1.659	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
3	362.5>150.5	60.276	2.811	15-Apr-10	04:41:32	1.000	1.000	1.000	1.000	
4	354.5>146.5			15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
5	283.5>46	1066.4...	3.383	15-Apr-10	04:41:32	1.000	1.000	1.000	1.000	
6	280.5>46			15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
7	256.6>204.5	0.222	4.453	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
8	167.5>137.5	4123.3...	3.559	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
9	212.5>182.5	18.322	3.485	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
10	240.6>212.4	5.355	2.013	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
11	171.5>141.6	583.270	3.395	15-Apr-10	04:41:32	1.000	1.000	1.000	1.000	
12	182.5>152.5	7.852	2.044	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
13	167.5>137.5	0.629	4.812	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
14	122.5>46	1.982	2.724	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
15	240.5>61.9	0.851	3.104	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
16	226.5>209.5	56.952	2.409	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
17	184.6>167.6	618.583	2.299	15-Apr-10	04:41:32	1.000	1.000	1.000	1.000	
18	181.6>151.6	2.374	4.866	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
19	181.6>151.6	6.625	2.451	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
20	196.6>46	3.376	1.870	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
21	196.6>46	2.368	4.122	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
22	136.7>46	2.502	3.556	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
23	136.7>46	0.563	2.865	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
24	136.7>46			15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
25	284.6>61.9	1.302	1.660	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	
26	369.1>91.3	66.284	6.284	15-Apr-10	04:41:32	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

1145

# **LC/MS/MS RAW QC DATA**

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Method: C:\MassLynx\Explosives.PRO\MethDB\8321\MRM\_SOILQC\_MAR2010.mdb 21 Mar 2010 09:55:40

Calibration: C:\MassLynx\Explosives.PRO\CurveDB\8321\_ICAL\_033110.cdb 01 Apr 2010 08:59:58

Name: R04141004

Date: 14-Apr-2010

Time: 21:20:24

ID: LXQ9M1AA

Description: F0D090000-309B

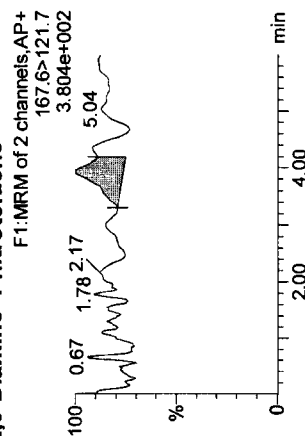
User: WH

Vial: 1:13

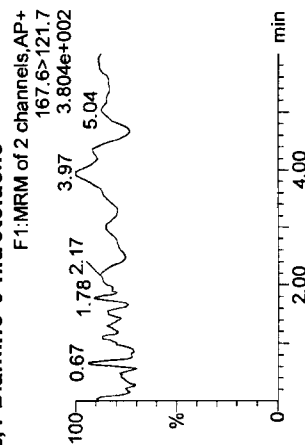
Instrument: LCMSMSR

Task: 0099309

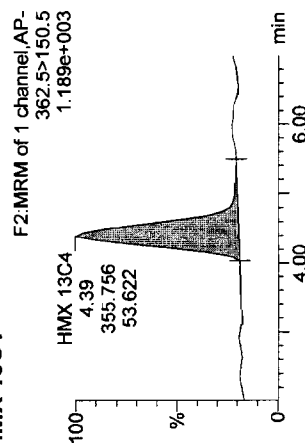
## 2,6-Diamino-4-nitrotoluene



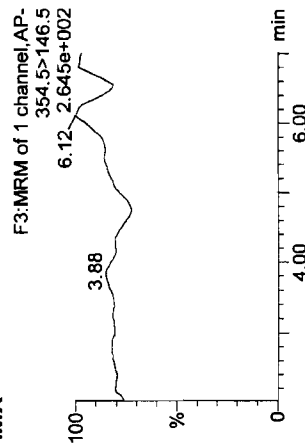
## 2,4-Diamino-6-nitrotoluene



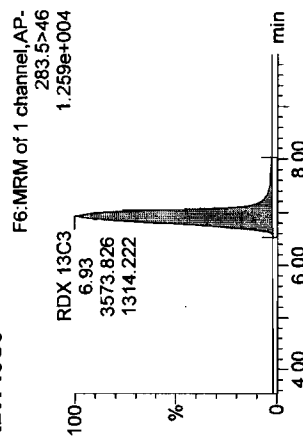
## HMX 13C4



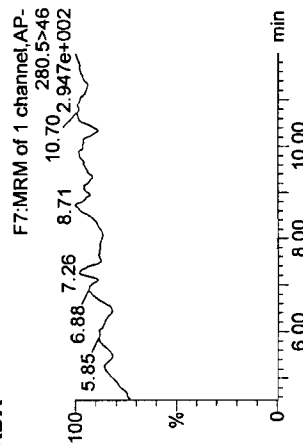
## HMX



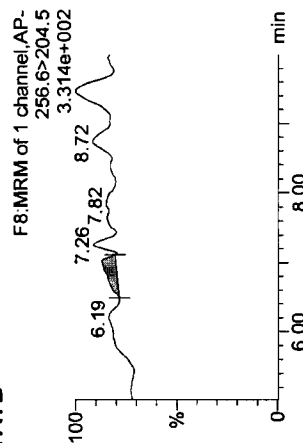
## RDX 13C3



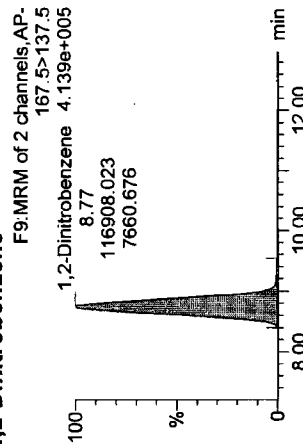
## RDX



## TATB



## 1,2-Dinitrobenzene



Method 8321, Explosives By LCMSMS

LOT #

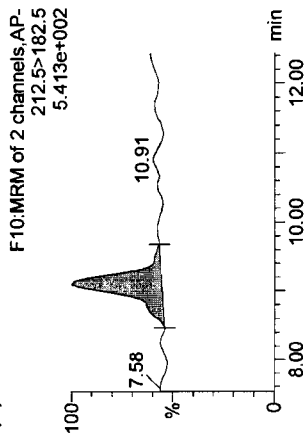
Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

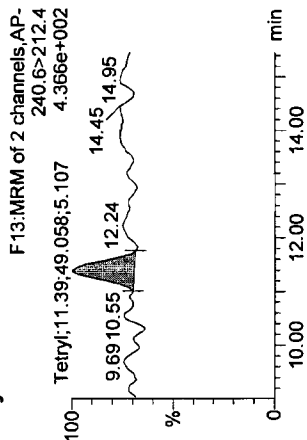
89

Name: R04141004  
 Date: 14-Apr-2010  
 Time: 21:20:24  
 ID: LXQ9M1AA  
 Description: F0D090000-309B  
 User: WH  
 Vial: 1:13  
 Instrument: LCMSMSR  
 Task:

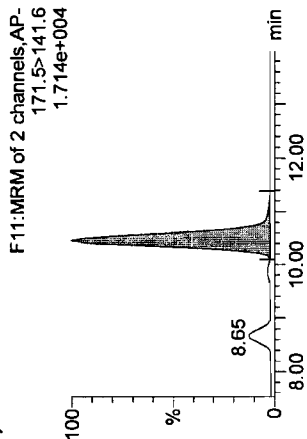
1,3,5-Trinitrobenzene



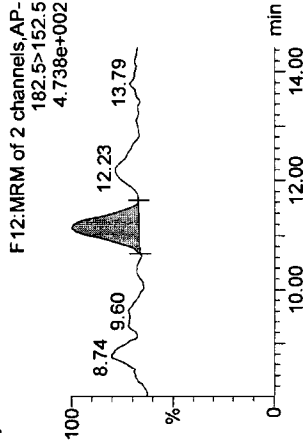
Tetryl



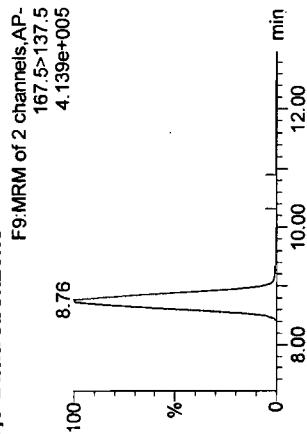
1,3-Dinitrobenzene D4



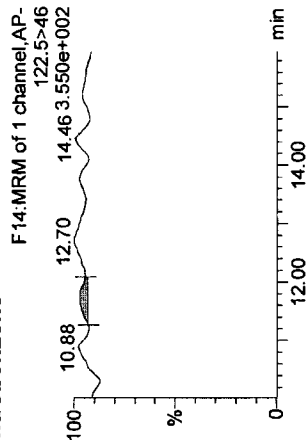
3,5-Dinitroaniline



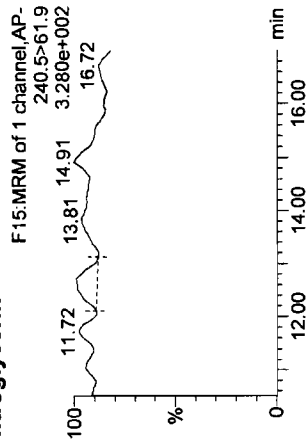
1,3-Dinitrobenzene



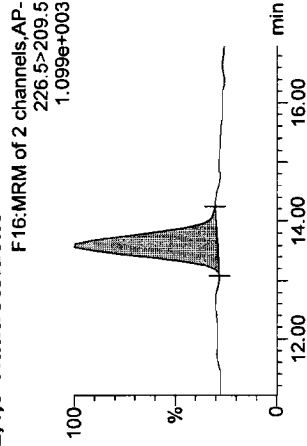
Nitrobenzene



Nitroglycerin



2,4,6-Trinitrotoluene



602

Method 8321, Explosives By LCMSMS

1145



## MassLynx 4.1

## Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141004

Date: 14-Apr-2010

Time: 21:20:24

ID: LXQ9M1AA

Description: F0D090000-309B

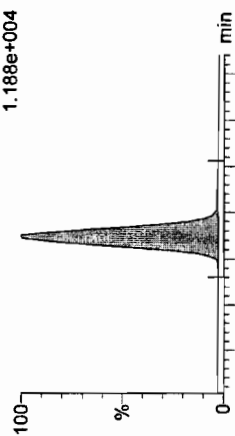
User: WH

Vial: 1:13

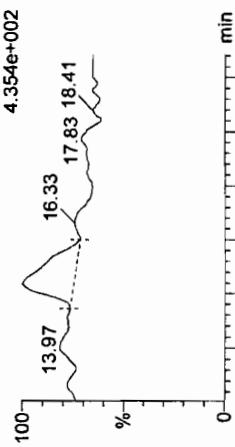
Instrument: LCMSMSR

Task:

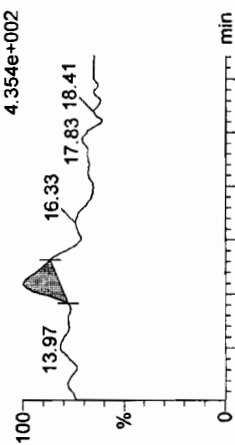
## 2,4-Dinitrotoluene D3

F18:MRM of 2 channels,AP-  
184.6>167.6  
1.188e+004

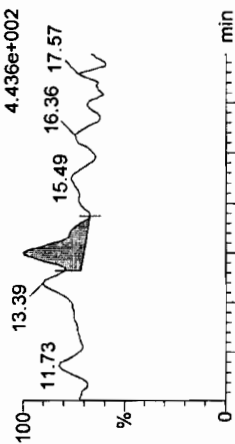
## 2,4-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6>151.6  
4.354e+002

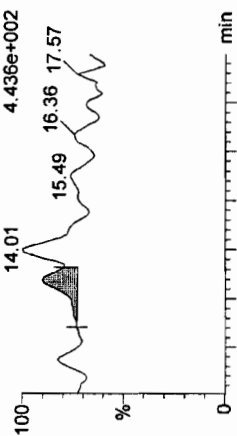
## 2,6-Dinitrotoluene

F19:MRM of 2 channels,AP-  
181.6>151.6  
4.354e+002

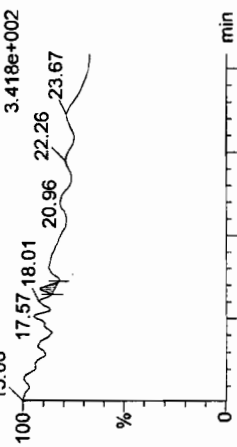
## 2-Amino-4,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6>46  
4.436e+002

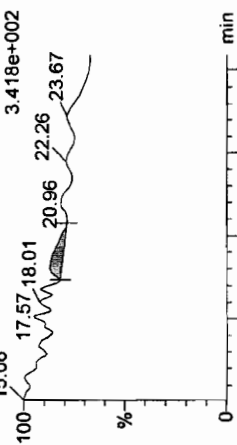
## 4-Amino-2,6-dinitrotoluene

F17:MRM of 1 channel,AP-  
196.6>46  
4.436e+002

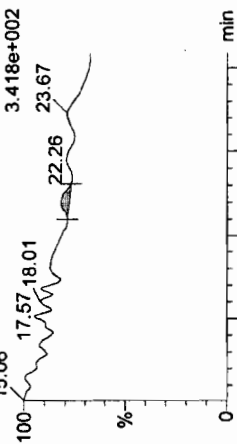
## 2-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7>46  
3.418e+002

## 4-Nitrotoluene

F20:MRM of 1 channel,AP-  
136.7>46  
3.418e+002

## 3-Nitrotoluene

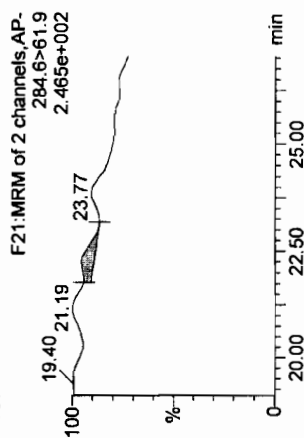
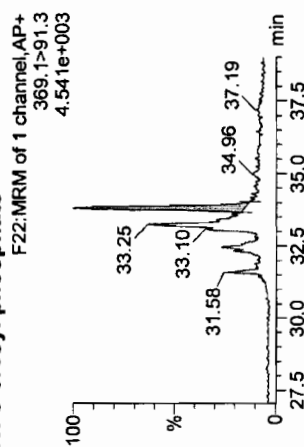
F20:MRM of 1 channel,AP-  
136.7>46  
3.418e+002

LOT

#

**Quantify Sample Report** **MassLynx 4.1**

Test America, INC. St. Louis  
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

**Name:** R04141004**Date:** 14-Apr-2010**Time:** 21:20:24**ID:** LXQ9M1AA**Description:** F0D090000-309B**User:** WH**Vial:** 1:13**Instrument:** LCMSMSR**Task:****PETN****Tri-o-cresyl phosphate**

604

Method 8321, Explosives By LCMSMS

1145

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExpR041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141004

Date: 14-Apr-2010

Time: 21:20:24

ID: LXQ9M1AA

Description: F0D090000-309B

User: WH

Vial: 1:13

Instrument: LCMSMSR

Task:

W4  
4/16/10

#	Name	Sample Text	ID	Std. Conc	RT	Area	IS Area	Response	Det Flags	ug/Kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D090000-309B	LXQ9M1AA		3.967	43.454		43.454	bd	0.9860	
2	2... 2,4-Diamino-6-nitrotoluene	F0D090000-309B	LXQ9M1AA								
3	3... HMX 13C4	F0D090000-309B	LXQ9M1AA		4.385	355.756		355.756	bb	344.0568	68.811
4	4... HMX	F0D090000-309B	LXQ9M1AA								
5	5... RDX 13C3	F0D090000-309B	LXQ9M1AA		6.928	3573.826		3573.826	bb	342.6280	137.051
6	6... RDX	F0D090000-309B	LXQ9M1AA								
7	7... TATB	F0D090000-309B	LXQ9M1AA		7.030	8.624		8.624	bb	30.5433	
8	8... 1,2-Dinitrobenzene	F0D090000-309B	LXQ9M1AA		8.765	116908.023		1197.886	bb	2408.3874	120.419
9	9... 1,3,5-Trinitrobenzene	F0D090000-309B	LXQ9M1AA		9.088	85.346		0.874	bb	1.9709	
10	1... Tetryl	F0D090000-309B	LXQ9M1AA		11.390	49.058		0.503	bb	2.2447	
11	1... 1,3-Dinitrobenzene D4	F0D090000-309B	LXQ9M1AA		10.452	4879.765		4879.765	db	57.3575	114.715
12	1... 3,5-Dinitroaniline	F0D090000-309B	LXQ9M1AA		11.136	71.427		0.732	bb	1.8791	
13	1... 1,3-Dinitrobenzene	F0D090000-309B	LXQ9M1AA		10.474	31.996		0.328	bb	3.0534	
14	1... Nitrobenzene	F0D090000-309B	LXQ9M1AA		11.774	7.964		0.082	bdl		
15	1... Nitroglycerin	F0D090000-309B	LXQ9M1AA					4879.765	MM-		
16	1... 2,4,6-Trinitrotoluene	F0D090000-309B	LXQ9M1AA		13.575	322.595		3.305	MM	2.7598	
17	1... 2,4-Dinitrotoluene D3	F0D090000-309B	LXQ9M1AA		15.501	5111.449		5111.449	bb	30.3972	121.589
18	1... 2,4-Dinitrotoluene	F0D090000-309B	LXQ9M1AA						MM-		
19	1... 2,6-Dinitrotoluene	F0D090000-309B	LXQ9M1AA		15.182	34.959		0.171	bb	0.8370	
20	2... 2-Amino-4,6-dinitrotoluene	F0D090000-309B	LXQ9M1AA		14.014	65.673		0.321	db	4.0624	
21	2... 4-Amino-2,6-dinitrotoluene	F0D090000-309B	LXQ9M1AA		13.391	36.713		0.180	bd	2.8138	
22	2... 2-Nitrotoluene	F0D090000-309B	LXQ9M1AA		18.385	5.054		0.025	bb	7.6393	
23	2... 4-Nitrotoluene	F0D090000-309B	LXQ9M1AA		19.014	20.088		0.098	bb	74.1630	
24	2... 3-Nitrotoluene	F0D090000-309B	LXQ9M1AA		20.961	8.478		0.041	bb	22.0375	
25	2... PETN	F0D090000-309B	LXQ9M1AA		22.245	12.419		0.061	dd	8.5741	
26	2... Tri-o-cresyl phosphate	F0D090000-309B	LXQ9M1AA		33.814	548.086		548.086	bbi		

Method 8321, Explosives By LCMSMS

## MassLynx 4.1

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141004

Date: 14-Apr-2010

Time: 21:20:24

ID: LXQ9M1AA

Description: F0D090000-309B

User: WH

Vial: 1:13

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt./Volume (g/L)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	5.721	2.071	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
2	167.6>121.7			14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
3	362.5>150.5	53.622	2.698	14-Apr-10	21:20:24	1.000	1.000	1.000	1.000	
4	354.5>146.5			14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
5	283.5>46	1314.2...	3.450	14-Apr-10	21:20:24	1.000	1.000	1.000	1.000	
6	280.5>46			14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
7	256.6>204.5	0.838	2.667	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
8	167.5>137.5	7660.6...	3.533	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
9	212.5>182.5	13.698	2.824	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
10	240.6>212.4	5.107	2.731	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
11	171.5>141.6	1716.9...	3.442	14-Apr-10	21:20:24	1.000	1.000	1.000	1.000	
12	182.5>152.5	7.506	2.226	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
13	167.5>137.5	1.521	2.563	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
14	122.5>46	1.646	1.758	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
15	240.5>61.9			14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
16	226.5>209.5	74.616	2.418	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
17	184.6>167.6	678.476	2.264	14-Apr-10	21:20:24	1.000	1.000	1.000	1.000	
18	181.6>151.6			14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
19	181.6>151.6	3.364	2.288	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
20	196.6>46	4.907	2.025	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
21	196.6>46	2.878	2.125	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
22	136.7>46	1.328	4.947	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
23	136.7>46	1.115	1.045	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
24	136.7>46	0.743	1.651	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
25	284.6>61.9	4.778	1.208	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	
26	369.1>91.3	79.954	7.028	14-Apr-10	21:20:24	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

LOT #

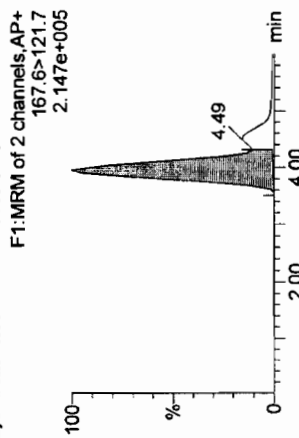
# Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

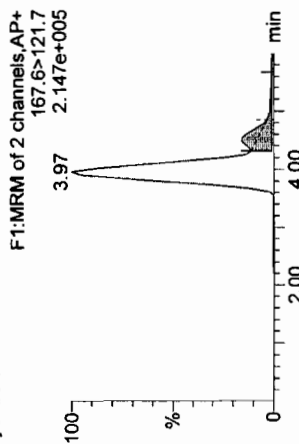
89

Name: R04141005  
 Date: 14-Apr-2010  
 Time: 22:00:30  
 ID: LXQ9M1AC  
 Description: F0D090000-309C  
 User: WH  
 Vial: 1:14  
 Instrument: LCMSMSR  
 Task:

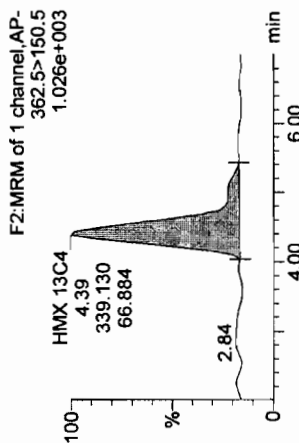
## 2,6-Diamino-4-nitrotoluene



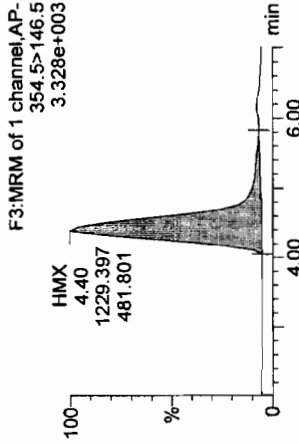
## 2,4-Diamino-6-nitrotoluene



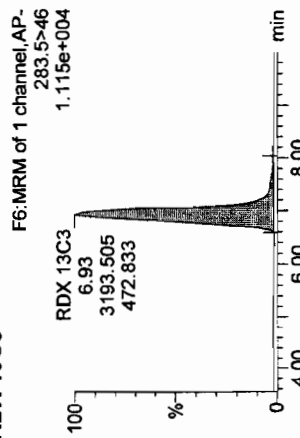
## HMX 13C4



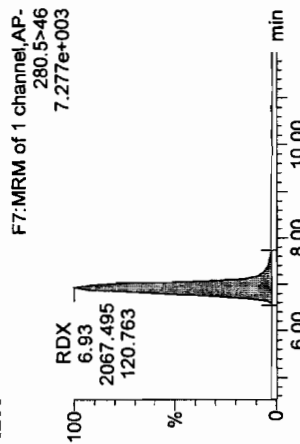
## HMX



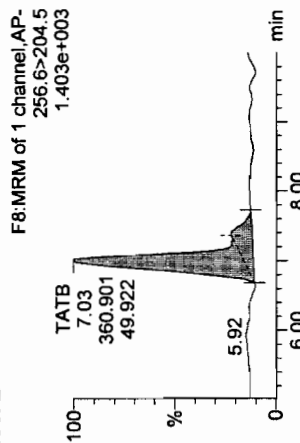
## RDX 13C3



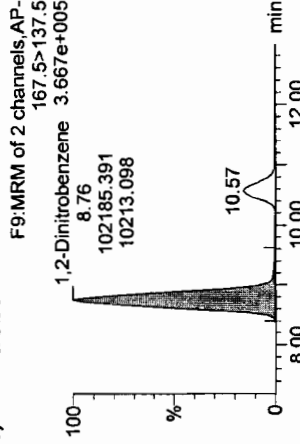
## RDX



## TATB



## 1,2-Dinitrobenzene



607

Method 8321, Explosives By LCMSMS

1145

## MassLynx 4.1

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141005

Date: 14-Apr-2010

Time: 22:00:30

ID: LXQ9M1AC

Description: F0D090000-309C

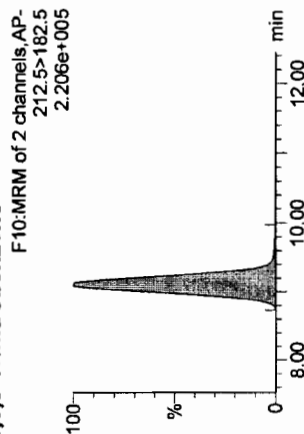
User: WH

Vial: 1:14

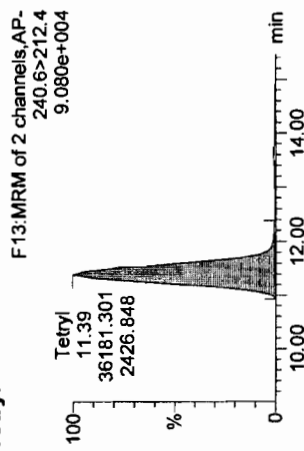
Instrument: LCMSMSR

Task:

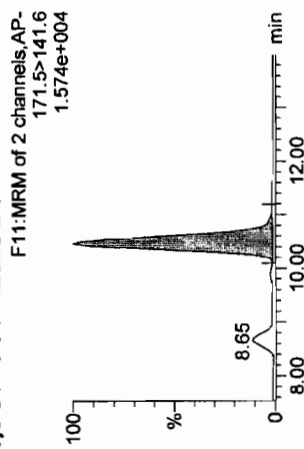
## 1,3,5-Trinitrobenzene



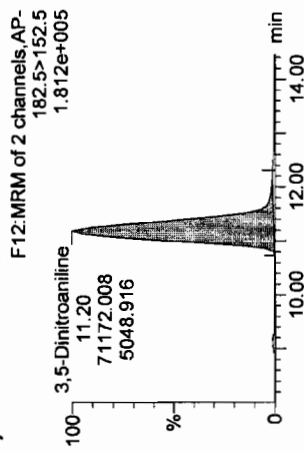
## Tetryl



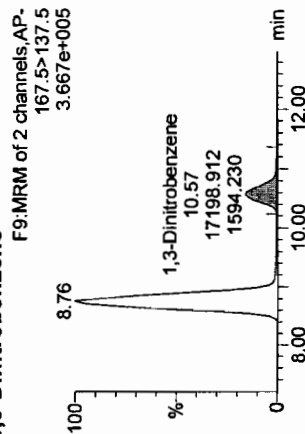
## 1,3-Dinitrobenzene D4



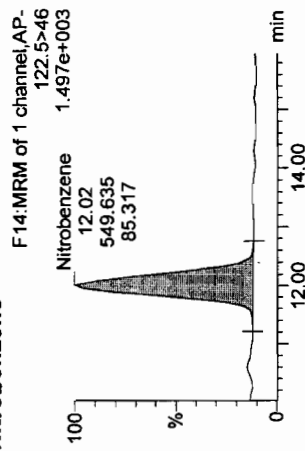
## 3,5-Dinitroaniline



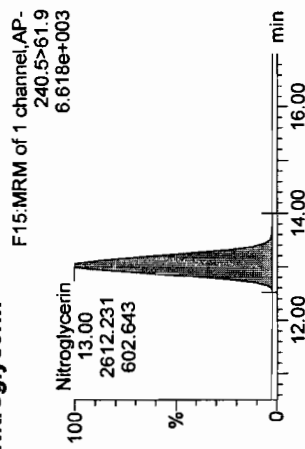
## 1,3-Dinitrobenzene



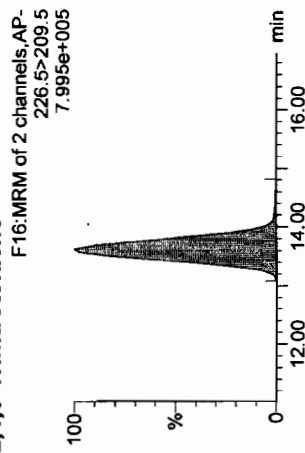
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



## MassLynx 4.1

## Quantify Sample Report

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141005

Date: 14-Apr-2010

Time: 22:00:30

ID: LXQ9M1AC

Description: F0D090000-309C

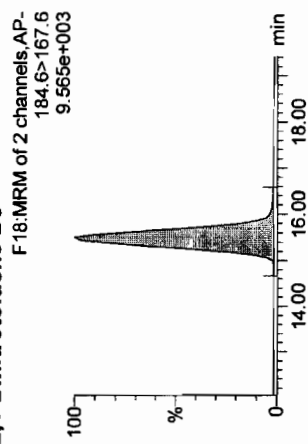
User: WH

Vial: 1:14

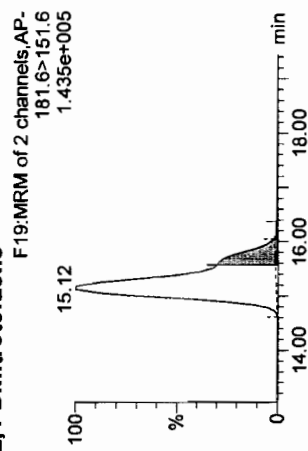
Instrument: LCMSMSR

Task:

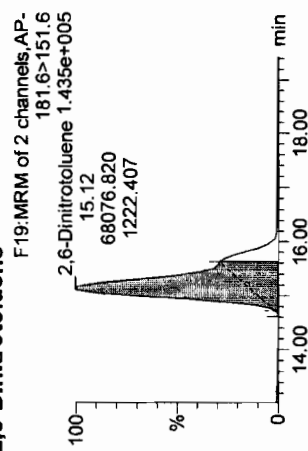
## 2,4-Dinitrotoluene D3



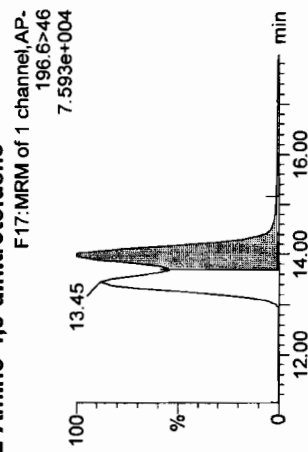
## 2,4-Dinitrotoluene



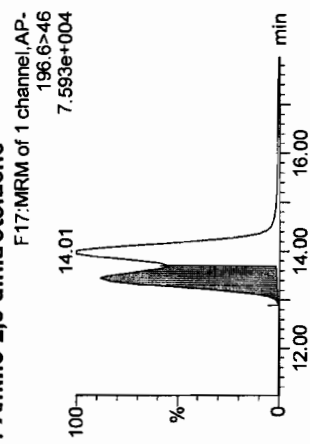
## 2,6-Dinitrotoluene



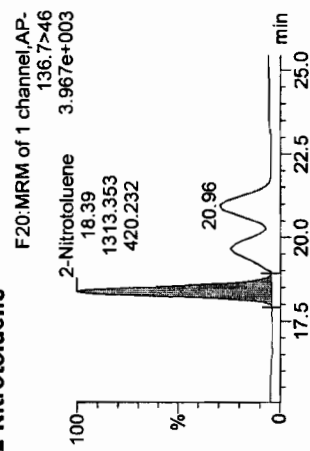
## 2-Amino-4,6-dinitrotoluene



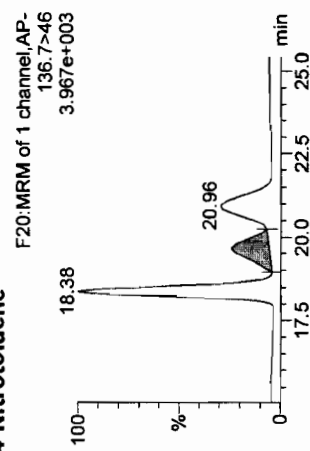
## 4-Amino-2,6-dinitrotoluene



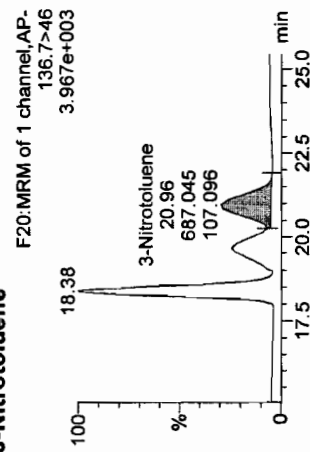
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



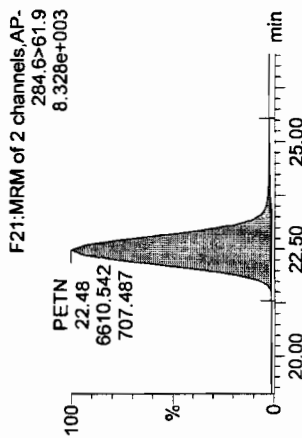
LOT # 489

**Quantify Sample Report** MassLynx 4.1

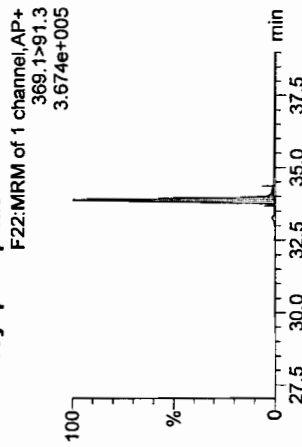
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141005  
 Date: 14-Apr-2010  
 Time: 22:00:30  
 ID: LXQ9M1AC  
 Description: F0D090000-309C  
 User: WH  
 Vial: 1:14  
 Instrument: LCMSMSR  
 Task:

**PETN**



**Tri-o-cresyl phosphate**



610 0 1145



LOT

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141005

Date: 14-Apr-2010

Time: 22:00:30

ID: LXQ9M1AC

Description: F0D090000-309C

User: WH

Vial: 1:14

Instrument: LCMSMSR

Task:

#	Name	Sample Text	ID	Std. Conc.	RT	Area	IS Area	Response	Det Flags	ug/Kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	3.967	74811.695		74811.695	bd	1697.5461	84.877
2	2... 2,4-Diamino-6-nitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	4.486	12945.421		12945.421	MM	1636.7043	81.835
3	3... HMX 13C4	F0D090000-309C	LXQ9M1AC	200.000	4.385	339.130		339.130	bb	327.9775	65.596
4	4... HMX	F0D090000-309C	LXQ9M1AC	200.000	4.398	1229.397	339.130	1812.575	bb	2068.1498	103.407
5	5... RDX 13C3	F0D090000-309C	LXQ9M1AC	200.000	6.928	3193.505		3193.505	bb	306.1660	122.466
6	6... RDX	F0D090000-309C	LXQ9M1AC	200.000	6.931	2067.495		161.852	bb	1614.9173	80.746
7	7... TATB	F0D090000-309C	LXQ9M1AC	200.000	7.030	360.901		360.901	MM	1278.1900	63.909
8	8... 1,2-Dinitrobenzene	F0D090000-309C	LXQ9M1AC	200.000	8.764	102185.391	4486.772	1138.741	bb	2289.4741	114.474
9	9... 1,3,5-Trinitrobenzene	F0D090000-309C	LXQ9M1AC	200.000	9.088	61770.648	4486.772	688.364	bb	1551.4430	77.572
10	1... Tetryl	F0D090000-309C	LXQ9M1AC	200.000	11.390	36181.301	4486.772	403.200	bb	1800.5335	90.027
11	1... 1,3-Dinitrobenzene D4	F0D090000-309C	LXQ9M1AC	200.000	10.451	4486.772		4486.772	db	52.7382	105.476
12	1... 3,5-Dinitroaniline	F0D090000-309C	LXQ9M1AC	200.000	11.198	71172.008	4486.772	793.132	bb	2036.3669	101.818
13	1... 1,3-Dinitrobenzene	F0D090000-309C	LXQ9M1AC	200.000	10.567	17198.912	4486.772	191.662	bb	1785.0397	89.252
14	1... Nitrobenzene	F0D090000-309C	LXQ9M1AC	200.000	12.024	549.635	4486.772	6.125	bb	2183.7429	109.187
15	1... Nitroglycerin	F0D090000-309C	LXQ9M1AC	200.000	13.000	2612.231	4486.772	29.110	bb	4641.6525	92.833
16	1... 2,4,6-Trinitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	13.638	329197.094	4486.772	3668.529	bb	3062.9057	153.145
17	1... 2,4-Dinitrotoluene D3	F0D090000-309C	LXQ9M1AC	200.000	15.501	4116.234		4116.234	bd	24.4788	97.915
18	1... 2,4-Dinitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	15.569	11083.945	4116.234	67.318	MM	1712.7476	85.637
19	1... 2,6-Dinitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	15.117	68076.820	4116.234	413.465	MM	2023.9210	101.196
20	2... 2-Amino-4,6-dinitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	14.014	33364.723	4116.234	202.641	db	2562.8868	128.144
21	2... 4-Amino-2,6-dinitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	13.453	26788.945	4116.234	162.703	bd	2549.6187	127.481
22	2... 2-Nitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	18.385	1313.353	4116.234	7.977	bb	2465.1649	123.258
23	2... 4-Nitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	19.666	499.956	4116.234	3.036	bb	2350.6796	117.534
24	2... 3-Nitrotoluene	F0D090000-309C	LXQ9M1AC	200.000	20.961	687.045	4116.234	4.173	db	2217.6773	110.884
25	2... PETN	F0D090000-309C	LXQ9M1AC	200.000	22.480	6610.542	4116.234	40.149	bb	5667.4131	113.348
26	2... Tri-o-cresyl phosphate	F0D090000-309C	LXQ9M1AC	200.000	33.870	43796.965	4116.234	43796.965	bb	399.1717	79.834

Method 8321, Explosives By LCMSMS

1145

LOT # 89

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\data\SetSavedExp\R041410\_LANL8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141005  
 Date: 14-Apr-2010  
 Time: 22:00:30  
 ID: LXQ9M1AC  
 Description: F0D090000-309C  
 User: WH  
 Vial: 1:14  
 Instrument: LCMSMSR  
 Task:

Trace	Sec. Trace	SN	Height/Area	Acq. Date	Acq. Time	Initial Wt/Volume (g/L)	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	14117...	2.855	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
2	167.6>121.7	2102.1...	2.457	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
3	362.5>150.5	66.884	2.527	14-Apr-10	22:00:30	1.000	1.000	1.000	1.000	
4	354.5>146.5	481.801	2.565	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
5	283.5>46	472.833	3.436	14-Apr-10	22:00:30	1.000	1.000	1.000	1.000	
6	280.5>46	120.763	3.441	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
7	256.6>204.5	49.922	3.455	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
8	167.5>137.5	10213...	3.583	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
9	212.5>182.5	6474.2...	3.565	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
10	240.6>212.4	2426.8...	2.502	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
11	171.5>141.6	1590.7...	3.461	14-Apr-10	22:00:30	1.000	1.000	1.000	1.000	
12	182.5>152.5	5048.9...	2.535	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
13	167.5>137.5	1594.2...	3.323	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
14	122.5>46	85.317	2.403	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
15	240.5>61.9	602.643	2.480	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
16	226.5>209.5	26701....	2.426	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
17	184.6>167.6	523.396	2.289	14-Apr-10	22:00:30	1.000	1.000	1.000	1.000	
18	181.6>151.6	357.492	3.781	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
19	181.6>151.6	1222.4...	2.105	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
20	196.6>46	3247.4...	2.262	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
21	196.6>46	2842.8...	2.466	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
22	136.7>46	420.232	2.904	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
23	136.7>46	81.644	1.482	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
24	136.7>46	107.096	1.415	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
25	284.6>61.9	707.487	1.239	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	
26	369.1>91.3	3058.3...	8.352	14-Apr-10	22:00:30	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

1145

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141007

Date: 14-Apr-2010

Time: 23:20:43

ID: LXNJ91AG

Description: F0D080489-001S

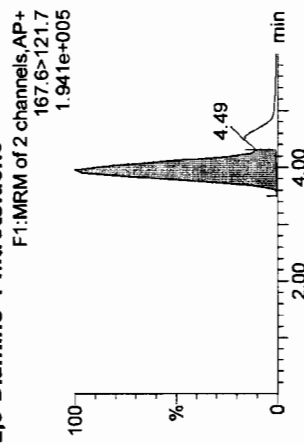
User: WH

Vial: 1:16

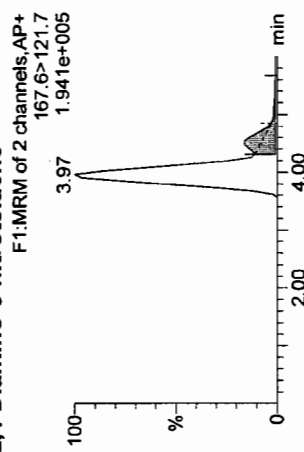
Instrument: LCMSMSR

Task:

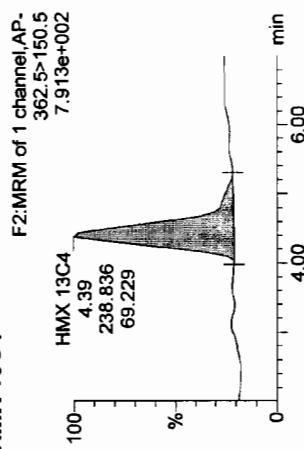
## 2,6-Diamino-4-nitrotoluene



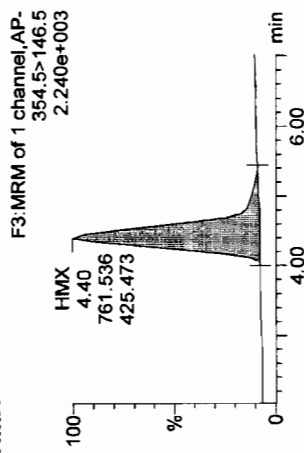
## 2,4-Diamino-6-nitrotoluene



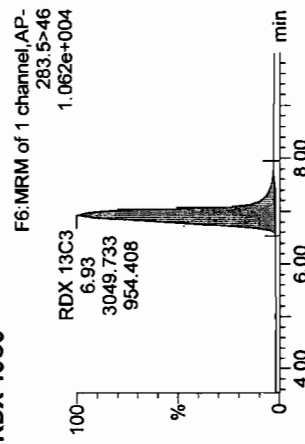
## HMX 13C4



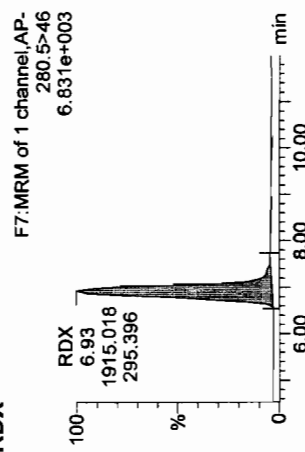
## HMX



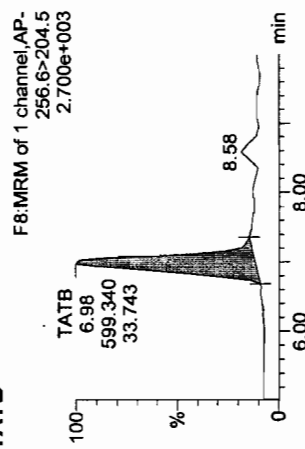
## RDX 13C3



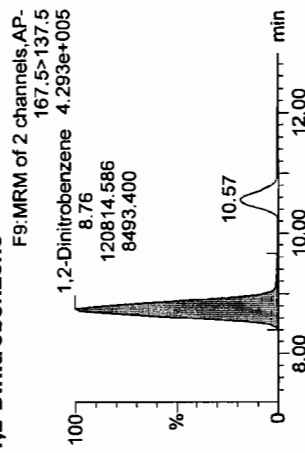
## RDX



## TATB



## 1,2-Dinitrobenzene



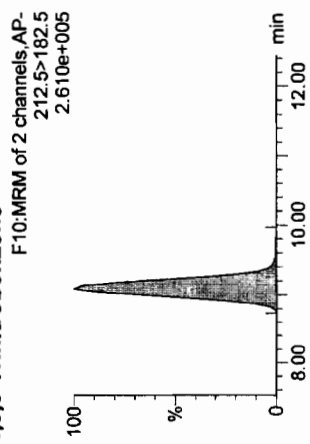
LOT # 489

Quantify Sample Report MassLynx 4.1

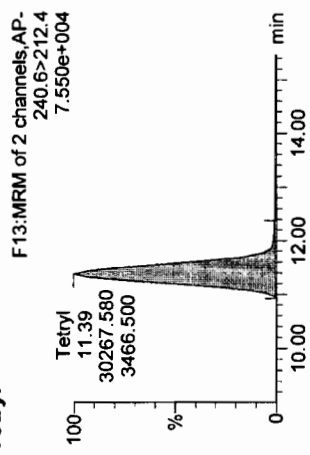
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141007  
 Date: 14-Apr-2010  
 Time: 23:20:43  
 ID: LXNJ91AG  
 Description: F0D080489-001S  
 User: WH  
 Vial: 1:16  
 Instrument: LCMSMSR  
 Task:

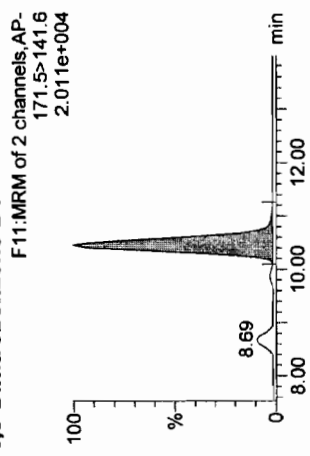
1,3,5-Trinitrobenzene



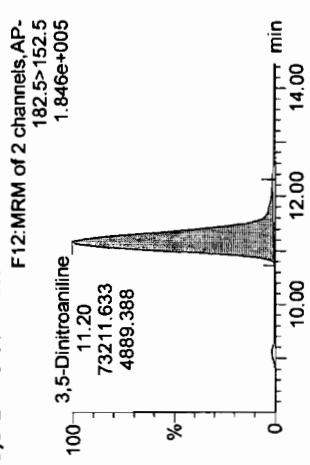
Tetryl



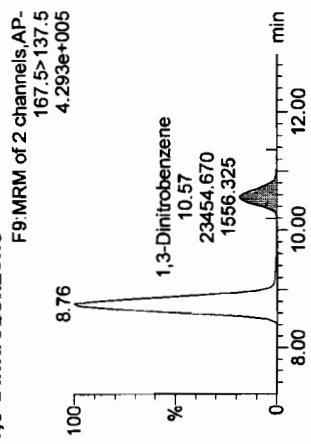
1,3-Dinitrobenzene D4



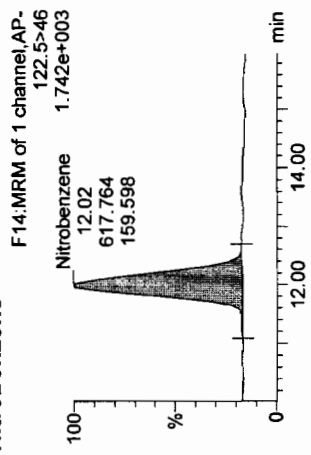
3,5-Dinitroaniline



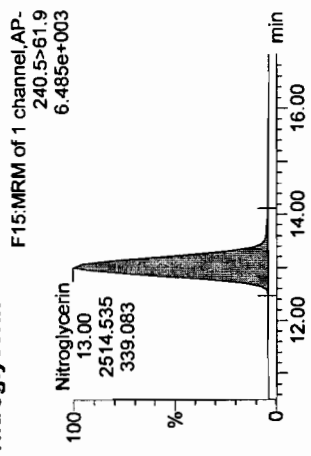
1,3-Dinitrobenzene



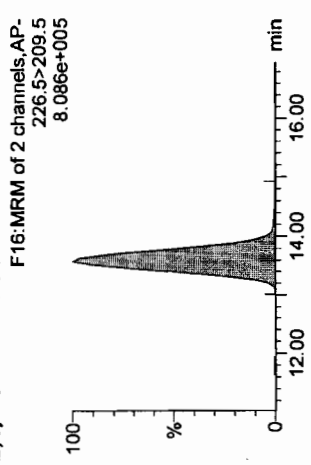
Nitrobenzene



Nitroglycerin



2,4,6-Trinitrotoluene



LOT #

Quantify Sample Report **MassLynx 4.1**

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\041410\_LAN\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141007

Date: 14-Apr-2010

Time: 23:20:43

ID: LXNJ91AG

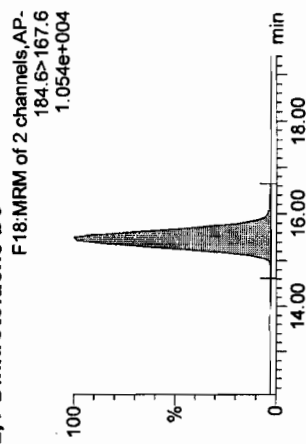
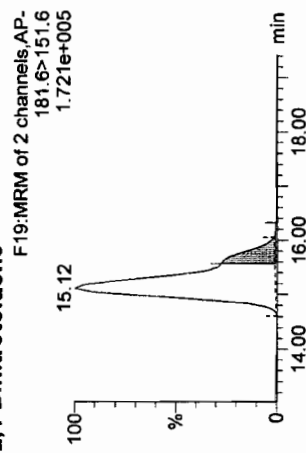
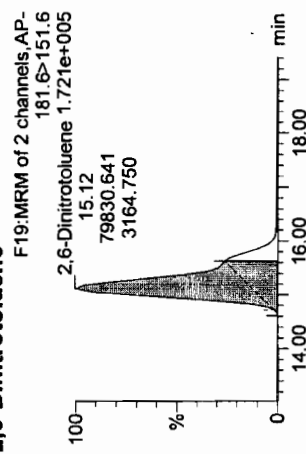
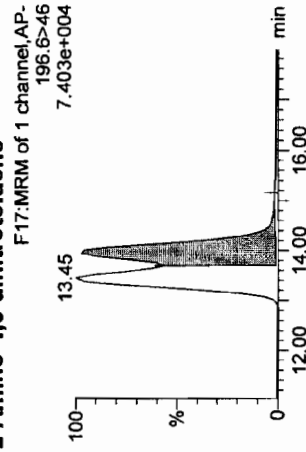
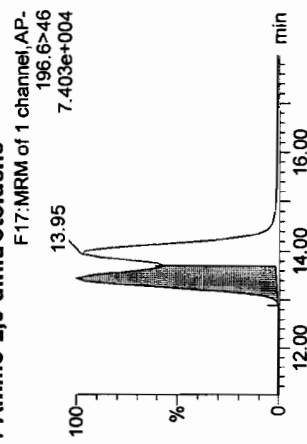
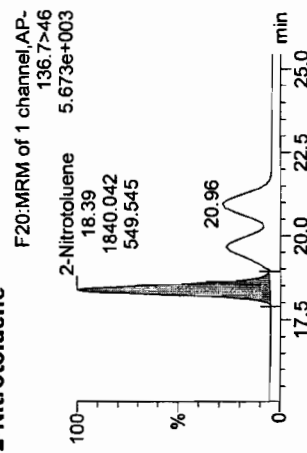
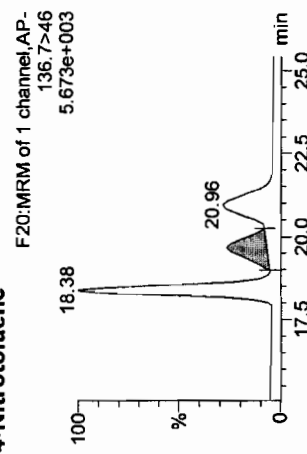
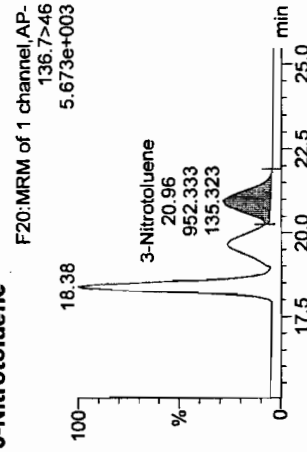
Description: F0D080489-001S

User: WH

Vial: 1:16

Instrument: LCMSMSR

Task:

**2,4-Dinitrotoluene D3****2,4-Dinitrotoluene****2,6-Dinitrotoluene****2-Amino-4,6-dinitrotoluene****4-Amino-2,6-dinitrotoluene****2-Nitrotoluene****4-Nitrotoluene****3-Nitrotoluene**

615 0 1145

Method 8321, Explosives By LCMSMS

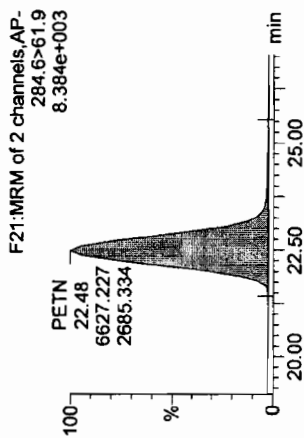
LOT # 489

**Quantify Sample Report** **MassLynx 4.1**

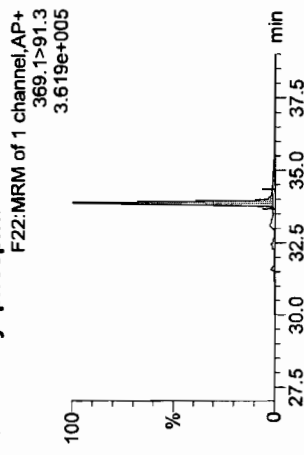
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExpR041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

**Name:** R04141007  
**Date:** 14-Apr-2010  
**Time:** 23:20:43  
**ID:** LXNJ91AG  
**Description:** F0D080489-001S  
**User:** WH  
**Vial:** 1:16  
**Instrument:** LCMSMSR  
**Task:**

**PETN**



**Tri-o-cresyl phosphate**



616 0 1145

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\R041410\_LANL18321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141007

Date: 14-Apr-2010

Time: 23:20:43

ID: LXNJ91AG

Description: F0D080489-001S

User: WH

Vial: 1:16

Instrument: LCMSMSR

Task:

Wt  
4/16/10

#	Name	Sample Text	ID	Std	Conc	RT	Area	IS Area	Response	Det Elags	Up/Kg	%Rec
1	1... 2,6-Diamino-4-nitrotoluene	F0D080489-001S	LXNJ91AG	200.000	3.967	67434.375	67434.375	67434.375	67434.375	bd	1530.1479	76.507
2	2... 2,4-Diamino-6-nitrotoluene	F0D080489-001S	LXNJ91AG	200.000	4.486	11673.229	11673.229	11673.229	11673.229	MM	1475.8596	73.793
3	3... HMX 13C4	F0D080489-001S	LXNJ91AG	200.000	4.385	238.836	238.836	238.836	238.836	db	230.9818	46.196
4	4... HMX	F0D080489-001S	LXNJ91AG	200.000	4.398	761.536	761.536	761.536	761.536	bd	1819.0586	90.953
5	5... RDX 13C3	F0D080489-001S	LXNJ91AG	200.000	6.928	3049.733	3049.733	3049.733	3049.733	bb	292.3824	116.953
6	6... RDX	F0D080489-001S	LXNJ91AG	200.000	6.931	1915.018	1915.018	1915.018	1915.018	bb	1566.3343	78.317
7	7... TATB	F0D080489-001S	LXNJ91AG	200.000	6.983	599.340	599.340	599.340	599.340	bb	2122.6607	106.133
8	8... 1,2-Dinitrobenzene	F0D080489-001S	LXNJ91AG	200.000	8.764	120814.586	120814.586	120814.586	120814.586	bb	2173.7881	108.689
9	9... 1,3,5-Trinitrobenzene	F0D080489-001S	LXNJ91AG	200.000	9.088	72097.641	72097.641	72097.641	72097.641	bb	1454.2050	72.710
10	1... Tetrl	F0D080489-001S	LXNJ91AG	200.000	11.390	30267.580	30267.580	30267.580	30267.580	bb	1209.6107	60.481
11	1... 1,3-Dinitrobenzene D4	F0D080489-001S	LXNJ91AG	200.000	10.452	5587.057	5587.057	5587.057	5587.057	db	65.6711	131.342
12	1... 3,5-Dinitroaniline	F0D080489-001S	LXNJ91AG	200.000	11.198	73211.633	73211.633	73211.633	73211.633	bb	1682.2006	84.110
13	1... 1,3-Dinitrobenzene	F0D080489-001S	LXNJ91AG	200.000	10.567	23454.670	23454.670	23454.670	23454.670	bb	1954.9116	97.746
14	1... Nitrobenzene	F0D080489-001S	LXNJ91AG	200.000	12.024	617.764	617.764	617.764	617.764	bb	1965.0201	98.251
15	1... Nitroglycerin	F0D080489-001S	LXNJ91AG	200.000	13.000	2514.535	2514.535	2514.535	2514.535	bb	3588.1420	71.763
16	1... 2,4,6-Trinitrotoluene	F0D080489-001S	LXNJ91AG	200.000	13.575	333208.969	333208.969	333208.969	333208.969	bb	2489.6896	124.484
17	1... 2,4-Dinitrotoluene D3	F0D080489-001S	LXNJ91AG	200.000	15.501	4527.333	4527.333	4527.333	4527.333	bd	26.9235	107.694
18	1... 2,4-Dinitrotoluene	F0D080489-001S	LXNJ91AG	200.000	15.569	11423.640	11423.640	11423.640	11423.640	MM	1604.9486	80.247
19	1... 2,6-Dinitrotoluene	F0D080489-001S	LXNJ91AG	200.000	15.117	79830.641	79830.641	79830.641	79830.641	MM	2157.8514	107.893
20	2... 2-Amino-4,6-dinitrotoluene	F0D080489-001S	LXNJ91AG	200.000	13.952	31286.986	31286.986	31286.986	31286.986	db	2185.0594	109.253
21	2... 4-Amino-2,6-dinitrotoluene	F0D080489-001S	LXNJ91AG	200.000	13.453	29610.932	29610.932	29610.932	29610.932	bd	2562.2962	128.115
22	2... 2-Nitrotoluene	F0D080489-001S	LXNJ91AG	200.000	18.385	1840.042	1840.042	1840.042	1840.042	bb	3140.1462	157.007
23	2... 4-Nitrotoluene	F0D080489-001S	LXNJ91AG	200.000	19.666	758.292	758.292	758.292	758.292	bb	3242.3154	162.116
24	2... 3-Nitrotoluene	F0D080489-001S	LXNJ91AG	200.000	20.961	952.333	952.333	952.333	952.333	db	2794.8572	139.743
25	2... PETN	F0D080489-001S	LXNJ91AG	200.000	22.480	6627.227	6627.227	6627.227	6627.227	bb	5165.7962	103.316
26	2... Tri-o-cresyl phosphate	F0D080489-001S	LXNJ91AG	200.000	33.870	42685.777	42685.777	42685.777	42685.777	bb	388.8922	77.778

Method 8321, Explosives By LCMSMS

LOT

## Quantify Sample Report MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141007

Date: 14-Apr-2010

Time: 23:20:43

ID: LXNJ91AG

Description: F0D080489-001S

User: WH

Vial: 1:16

Instrument: LCMSMSR

Task:

Trace	Sec Trace	S/N	Height/Area	Acq Date	Acq Time	Initial Wt Volume (g/...	Final Volume (mL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	5885.1...	2.863	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
2	167.6>121.7	906.674	2.548	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
3	362.5>150.5	69.229	2.617	14-Apr-10	23:20:43	1.000	1.000	1.000	1.000	
4	354.5>146.5	425.473	2.706	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
5	283.5>46	954.408	3.404	14-Apr-10	23:20:43	1.000	1.000	1.000	1.000	
6	280.5>46	295.396	3.445	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
7	256.6>204.5	33.743	3.991	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
8	167.5>137.5	8493.4...	3.548	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
9	212.5>182.5	9589.3...	3.612	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
10	240.6>212.4	3466.5...	2.483	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
11	171.5>141.6	932.327	3.546	14-Apr-10	23:20:43	1.000	1.000	1.000	1.000	
12	182.5>152.5	4889.3...	2.508	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
13	167.5>137.5	1556.3...	3.348	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
14	122.5>46	159.598	2.339	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
15	240.5>61.9	339.083	2.476	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
16	226.5>209.5	30753....	2.424	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
17	184.6>167.6	909.578	2.268	14-Apr-10	23:20:43	1.000	1.000	1.000	1.000	
18	181.6>151.6	848.633	4.030	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
19	181.6>151.6	3164.7...	2.150	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
20	196.6>46	2505.5...	2.282	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
21	196.6>46	2565.8...	2.469	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
22	136.7>46	549.545	2.931	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
23	136.7>46	115.656	1.497	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
24	136.7>46	135.323	1.394	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
25	284.6>61.9	2685.3...	1.235	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	
26	369.1>91.3	4027.5...	8.401	14-Apr-10	23:20:43	2.000	10.000	2.000	1.000	

Method 8321, Explosives By LCMSMS

1145



LOT

# Quantify Sample Report

MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141008

Date: 15-Apr-2010

Time: 00:00:49

ID: LXNJ91AH

Description: F0D080489-001D

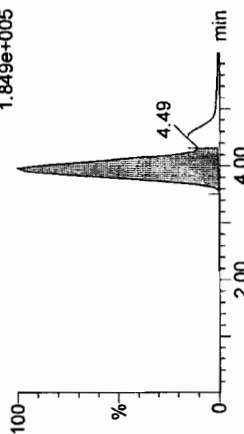
User: WH

Vial: 1:17

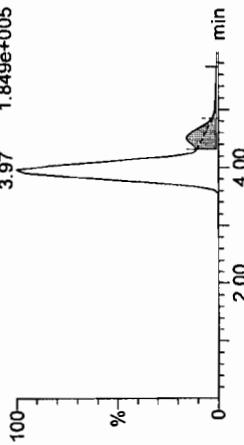
Instrument: LCMSMSR

Task:

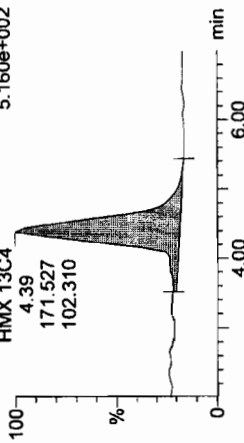
## 2,6-Diamino-4-nitrotoluene

F1:MRM of 2 channels,AP+  
167.5>121.7  
1.849e+005

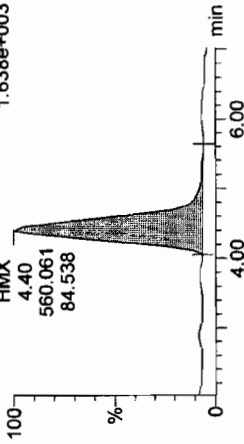
## 2,4-Diamino-6-nitrotoluene

F1:MRM of 2 channels,AP+  
167.5>121.7  
1.849e+005

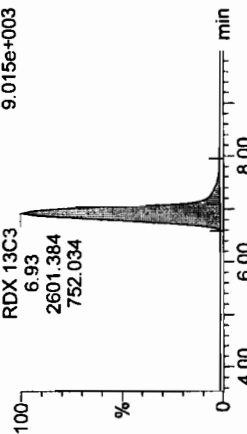
## HMX 13C4

F2:MRM of 1 channel,AP-  
362.5>150.5  
5.160e+002

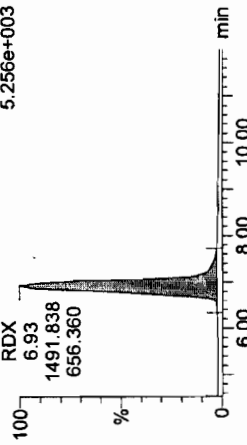
## HMX

F3:MRM of 1 channel,AP-  
354.5>146.5  
1.638e+003

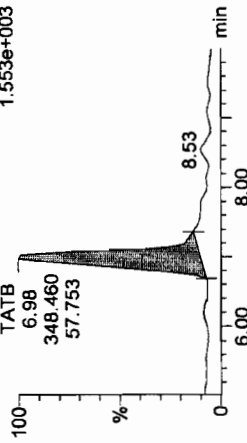
## RDX 13C3

F6:MRM of 1 channel,AP-  
283.5>46  
9.015e+003

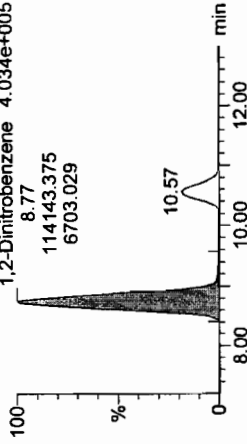
## RDX

F7:MRM of 1 channel,AP-  
280.5>46  
5.256e+003

## TATB

F8:MRM of 1 channel,AP-  
256.6>204.5  
1.553e+003

## 1,2-Dinitrobenzene

F9:MRM of 2 channels,AP-  
167.5>137.5  
4.034e+005

619

Method 8321, Explosives By LCMSMS

1145

LOT

# Quantify Sample Report

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives\PRO\DataSetSaved\ExpR041410\_LANL8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141008

Date: 15-Apr-2010

Time: 00:00:49

ID: LXNJ91AH

Description: F0D080489-001D

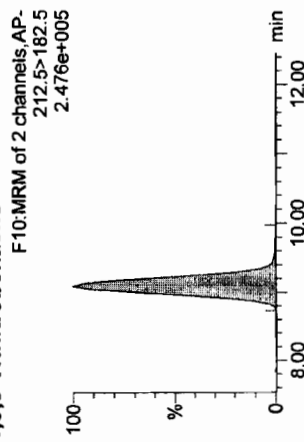
User: WH

Vial: 1:17

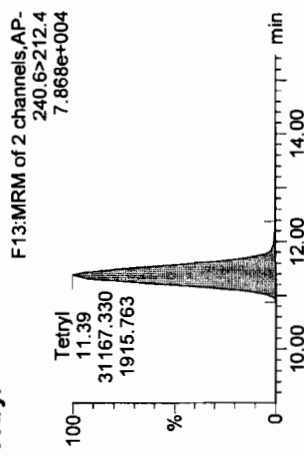
Instrument: LCMSMSR

Task:

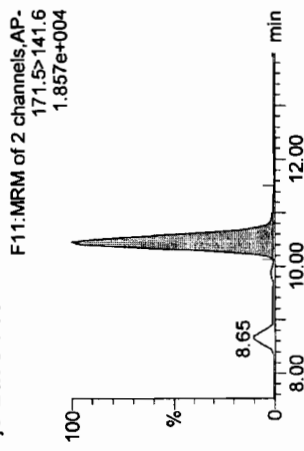
## 1,3,5-Trinitrobenzene



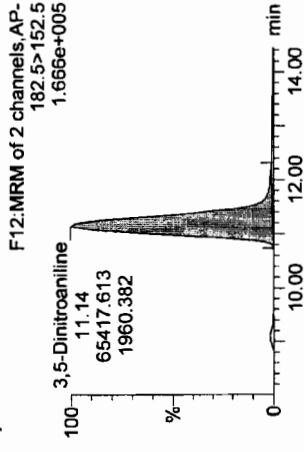
## Tetryl



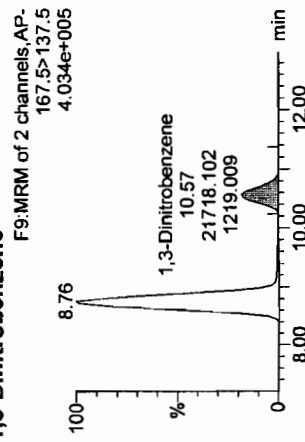
## 1,3-Dinitrobenzene D4



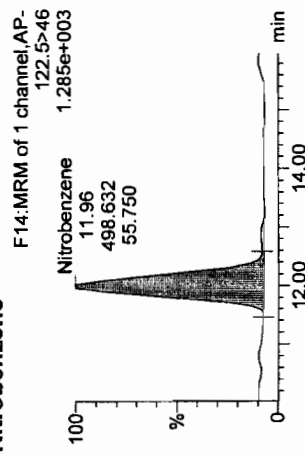
## 3,5-Dinitroaniline



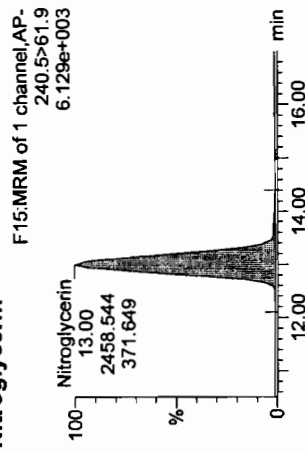
## 1,3-Dinitrobenzene



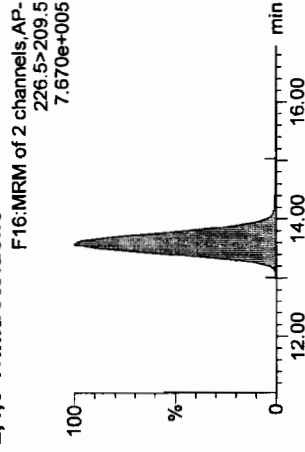
## Nitrobenzene



## Nitroglycerin



## 2,4,6-Trinitrotoluene



620

Method 8321, Explosives By LCMSMS

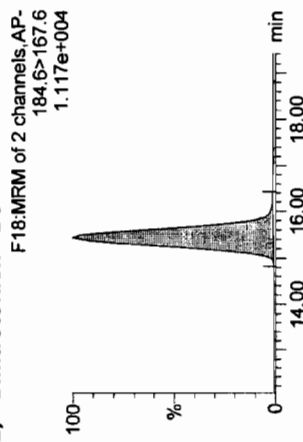
1145

## Quantify Sample Report MassLynx 4.1

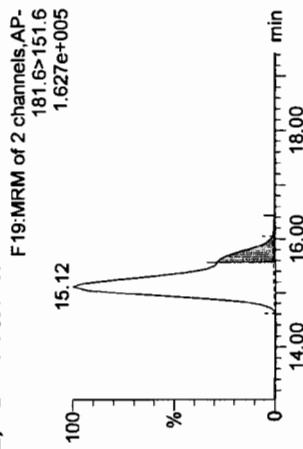
Test America, INC. St. Louis  
 Dataset: C:\MassLynx\Explosives.PRO\DataSet\SavedExp\041410\_LANL\8321\_SMP1\_041410.qld  
 Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
 Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141008  
 Date: 15-Apr-2010  
 Time: 00:00:49  
 ID: LXNJ91AH  
 Description: F0D080489-001D  
 User: WH  
 Vial: 1:17  
 Instrument: LCMSMSR  
 Task:

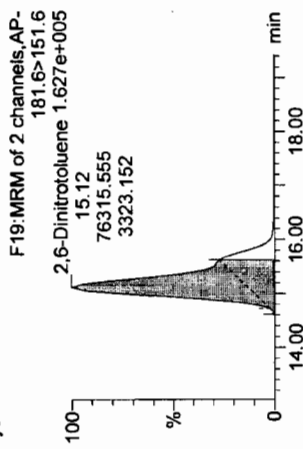
## 2,4-Dinitrotoluene D3



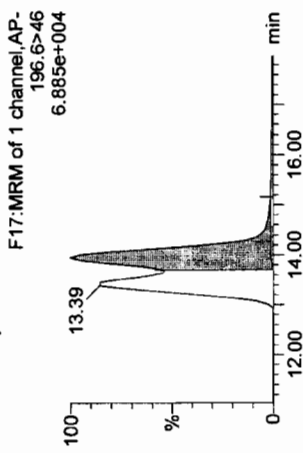
## 2,4-Dinitrotoluene



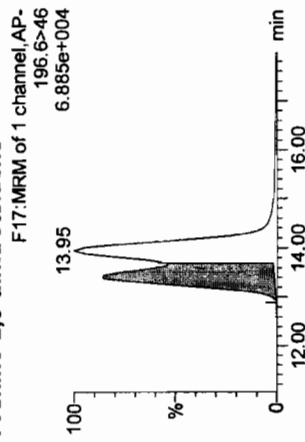
## 2,6-Dinitrotoluene



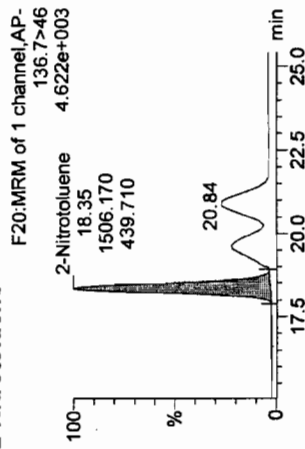
## 2-Amino-4,6-dinitrotoluene



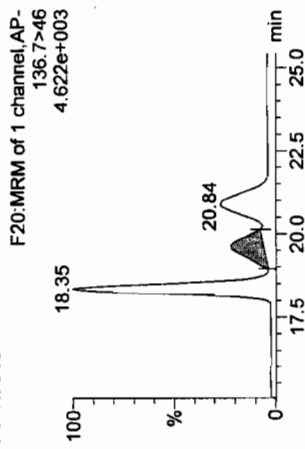
## 4-Amino-2,6-dinitrotoluene



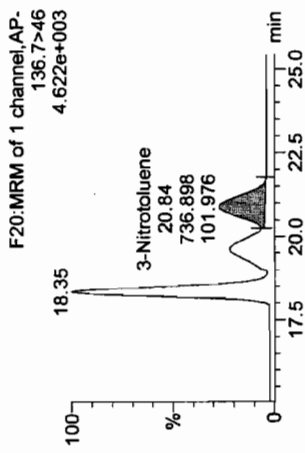
## 2-Nitrotoluene



## 4-Nitrotoluene



## 3-Nitrotoluene



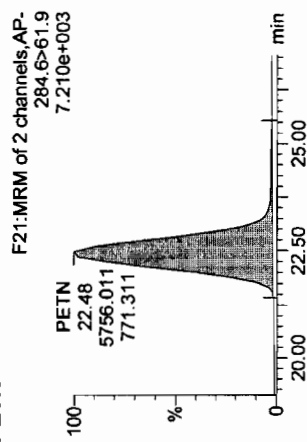
LOT

## Quantify Sample Report MassLynx 4.1

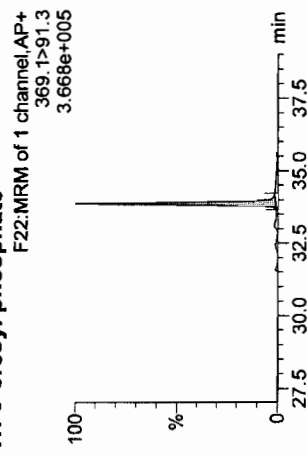
Test America, INC. St. Louis  
Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\R041410\_LANL\8321\_SMP1\_041410.qld  
Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time  
Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

Name: R04141008  
Date: 15-Apr-2010  
Time: 00:00:49  
ID: LXNJ91AH  
Description: F0D080489-001D  
User: WH  
Vial: 1:17  
Instrument: LCMSMSR  
Task:

## PETN



## Tri-o-cresyl phosphate



622 1145

Method 8321, Explosives By LCMSMS

LOT

#

## Quantify Sample Report

MassLynx 4.1

Test America, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSetSavedExp\RO41410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

89

Name: R04141008

Date: 15-Apr-2010

Time: 00:00:49

ID: LXNJ91AH

Description: F0D080489-001D

User: WH

Vial: 1:17

Instrument: LCMSMSR

Task:

1. Blank Peak  
 2. 2,4-Diamino-6-nitrotoluene  
 3. HMX 13C4  
 4. HMX  
 5. RDX 13C3  
 6. RDX  
 7. TATB  
 8. 1,2-Dinitrobenzene  
 9. 1,3,5-Trinitrobenzene  
 10. Tetrayl  
 11. 1,3-Dinitrobenzene D4  
 12. 3,5-Dinitroaniline  
 13. 1,3-Dinitrobenzene  
 14. Nitrobenzene  
 15. Nitroglycerin  
 16. 2,4,6-Trinitrotoluene  
 17. 2,4-Dinitrotoluene D3  
 18. 2,4-Dinitrotoluene  
 19. 2,6-Dinitrotoluene  
 20. 2-Amino-4,6-dinitrotoluene  
 21. 4-Amino-2,6-dinitrotoluene  
 22. 2-Nitrotoluene  
 23. 4-Nitrotoluene  
 24. 3-Nitrotoluene  
 25. PETN  
 26. Tri-o-cresyl phosphate

#	Name	Sample Text	ID	Std Conc	RT	Area	IS/Area	Response	Det Flags	ug/Kg	%Rec
1	2,6-Diamino-4-nitrotoluene	F0D080489-001D	LXNJ91AH	200.000	3.967	64103.801		64103.801	bd	1454.5741	72.729
2	2,4-Diamino-6-nitrotoluene	F0D080489-001D	LXNJ91AH	200.000	4.486	10974.040		10974.040	MM	1387.4604	69.373
3	HMX 13C4	F0D080489-001D	LXNJ91AH	200.000	4.385	171.527		171.527	db	165.8863	33.177
4	HMX	F0D080489-001D	LXNJ91AH	200.000	4.398	560.061	171.527	1632.574	bb	1862.7685	93.138
5	RDX 13C3	F0D080489-001D	LXNJ91AH	200.000	6.928	2601.384		2601.384	bb	249.3985	99.759
6	RDX	F0D080489-001D	LXNJ91AH	200.000	6.931	1491.838	2601.384	143.370	bb	1430.5091	71.525
7	TATB	F0D080489-001D	LXNJ91AH	200.000	6.983	348.460		348.460	bb	1234.1281	61.706
8	1,2-Dinitrobenzene	F0D080489-001D	LXNJ91AH	200.000	8.765	114143.375	5305.313	1075.746	bb	2162.8212	108.141
9	1,3,5-Trinitrobenzene	F0D080489-001D	LXNJ91AH	200.000	9.088	68149.406	5305.313	642.275	bb	1447.5672	72.378
10	Tetrayl	F0D080489-001D	LXNJ91AH	200.000	11.391	31167.330	5305.313	293.737	bb	1311.7154	65.586
11	1,3-Dinitrobenzene D4	F0D080489-001D	LXNJ91AH	200.000	10.452	5305.313		5305.313	bb	62.3595	124.719
12	3,5-Dinitroaniline	F0D080489-001D	LXNJ91AH	200.000	11.136	65417.613	5305.313	616.529	bb	1582.9401	79.147
13	1,3-Dinitrobenzene	F0D080489-001D	LXNJ91AH	200.000	10.567	21718.102	5305.313	204.683	bb	1906.3023	95.315
14	Nitrobenzene	F0D080489-001D	LXNJ91AH	200.000	11.962	498.632	5305.313	4.699	bd	1661.0017	83.050
15	Nitroglycerin	F0D080489-001D	LXNJ91AH	200.000	13.001	2458.544	5305.313	23.171	bb	3694.5540	73.891
16	2,4,6-Trinitrotoluene	F0D080489-001D	LXNJ91AH	200.000	13.576	314319.938	5305.313	2962.313	bb	2473.2758	123.664
17	2,4-Dinitrotoluene D3	F0D080489-001D	LXNJ91AH	200.000	15.436	4723.334		4723.334	bb	28.0891	112.356
18	2,4-Dinitrotoluene	F0D080489-001D	LXNJ91AH	200.000	15.569	10733.313	4723.334	56.810	MM	1445.3871	72.269
19	2,6-Dinitrotoluene	F0D080489-001D	LXNJ91AH	200.000	15.117	76315.555	4723.334	403.928	MM	1977.2372	98.862
20	2-Amino-4,6-dinitrotoluene	F0D080489-001D	LXNJ91AH	200.000	13.952	28956.049	4723.334	153.261	db	1938.3518	96.918
21	4-Amino-2,6-dinitrotoluene	F0D080489-001D	LXNJ91AH	200.000	13.391	24765.398	4723.334	131.080	bd	2054.0752	102.704
22	2-Nitrotoluene	F0D080489-001D	LXNJ91AH	200.000	18.353	1506.170	4723.334	7.972	bb	2463.7118	123.186
23	4-Nitrotoluene	F0D080489-001D	LXNJ91AH	200.000	19.666	505.792	4723.334	2.677	bb	2072.2225	103.611
24	3-Nitrotoluene	F0D080489-001D	LXNJ91AH	200.000	20.843	736.898	4723.334	3.900	db	2072.8695	103.643
25	PETN	F0D080489-001D	LXNJ91AH	200.000	22.480	5756.011	4723.334	30.466	bb	4300.5185	86.010
26	Tri-o-cresyl phosphate	F0D080489-001D	LXNJ91AH	200.000	33.871	41670.617	4723.334	41670.617	bb	379.5010	75.900

Method 8321, Explosives By LCMSMS

1145

LOT

## Quantify Sample Report MassLynx 4.1

TestAmerica, INC. St. Louis

Dataset: C:\MassLynx\Explosives.PRO\DataSet\SaveExp\R041410\_LANL\8321\_SMP1\_041410.qld

Last Altered: Thursday, April 15, 2010 12:20:06 Central Daylight Time

Printed: Friday, April 16, 2010 16:14:07 Central Daylight Time

489

Name: R04141008

Date: 15-Apr-2010

Time: 00:00:49

ID: LXNJ91AH

Description: F0D080489-001D

User: WH

Vial: 1:17

Instrument: LCMSMSR

Task:

Trace	Sec. Trace	S/N	Height/Area	Acq. Date	Acq. Time	Initial Vol. (μL)	Final Volume (μL)	Prep Factor	Dilution Factor	Ion Ratio
1	167.6>121.7	7433.1...	2.869	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
2	167.6>121.7	1106.1...	2.494	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
3	362.5>150.5	102.310	2.454	15-Apr-10	00:00:49	1.000	1.000	1.000	1.000	
4	354.5>146.5	84.538	2.744	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
5	283.5>46	752.034	3.421	15-Apr-10	00:00:49	1.000	1.000	1.000	1.000	
6	280.5>46	656.360	3.439	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
7	256.6>204.5	57.753	4.015	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
8	167.5>137.5	6703.0...	3.529	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
9	212.5>182.5	9034.9...	3.627	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
10	240.6>212.4	1915.7...	2.520	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
11	171.5>141.6	390.642	3.471	15-Apr-10	00:00:49	1.000	1.000	1.000	1.000	
12	182.5>152.5	1960.3...	2.538	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
13	167.5>137.5	1219.0...	3.373	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
14	122.5>46	55.750	2.401	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
15	240.5>61.9	371.649	2.473	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
16	226.5>209.5	7609.1...	2.438	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
17	184.6>167.6	597.015	2.340	15-Apr-10	00:00:49	1.000	1.000	1.000	1.000	
18	181.6>151.6	935.895	4.261	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
19	181.6>151.6	3323.1...	2.128	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
20	196.6>46	2036.2...	2.363	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
21	196.6>46	1731.3...	2.349	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
22	136.7>46	439.710	2.983	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
23	136.7>46	73.791	1.491	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
24	136.7>46	101.976	1.414	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
25	284.6>61.9	771.311	1.229	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	
26	369.1>91.3	3351.0...	8.725	15-Apr-10	00:00:49	2.000	10.000	2.000	1.000	

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Method 8321, Explosives By LCMSMS

1145

**LC/MS/MS MISCELLANEOUS**  
**DATA**

R100414

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# Organic Prep Report for Batch # 0099304

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Prep Method: A7 Explosives by LCMSMS

SOP Number: STL0005

Matrix: Solid

Prep Description: Sensitization - Low level

Extraction Date: 4/9/10

Lot Number	WorkOrder No	AnalDate	Wt/Vol	Initials: <i>MSM</i>			Initials:		
				pH 1	pH 2	Extr Unit	Concentration 1	Cleanup 1	Cleanup 2
F0D080489 - 001	LXNJ91AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 001D	LXNJ91AH	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 001S	LXNJ91AG	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 002	LXNKC1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 003	LXNKE1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 004	LXNKG1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 005	LXNKH1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 006	LXNKJ1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D080489 - 007	LXNKL1AD	04/16/2010	2 g				10 mL	4/9/2010	
F0D090000 - 309B	LXQ9M1AA		2 g				10 mL	4/9/2010	
F0D090000 - 309C	LXQ9M1AC		2 g				10 mL	4/9/2010	

## Chemical Lot Information

Chemical: Acetonitrile  
Lot Number: G50343

## Miscellaneous Information

Start: Stop:

Extr 1:

Extr 2:

Conc Method:

Conc Temp C:

## Spike Information

Sample	Standard ID	Exp Date	Vol Added
330 SPIKE	GC0129-10	4/16/2010	250 uL
330 SURR.	GC0114-10	4/9/2010	100 uL

Spiking verified by: *MSM* 4/9/10

Comments: 250 uL LANL5 LCMS0087-10 exp. S-2-10

## Custody Information

released 4/10/10 *MSM*



TestAmerica St. Louis  
LC/MS/MS Runlog

#

#	Data File	Lab I.D.	Dil.	STD#	Matrix S/W	Date	Oper.	Method
1	83211001	8321 CRI		LCMS 73-10		3-31-10	W H	8321
2	83211002	8321 CCV 200						
3	03	LW9KX1AA B			S			
4	04	LWF3H2AD						
5	05	LW9KX1AC C						
6	06	LW9KX1AD L						
7	07	8321 CCV 200		LCMS 73-10				
8	08	Inst Bk						
9	09	8321 CAL-1 5.0pb		LCMS 73/76-10				
10	10	-2						
11	11	-3						
12	12	-4						
13	13	-4						
14	14	-6						
15	15	-7						
16	16	-8						
17	17	-6						
18	18	8321 CCV 200		LCMS 81-10				
19	19	LWXXH1AA B			W			
20	20	LWXXH1AA C						
21	21	LWXXH1AA D						
22	22	LWXXH1AA E						
23	23	LWXXH1AA F						
24	24	LWXXH1AA G						
25	25	8321 CCV 200		LCMS 73/76-10				
26	26	LWXXH1AA B			S			
27	27	LWXXH1AA C						
28	28	LWXXH1AA D						
29	29	LWXXH1AA E						
30	30	LWXXH1AA F						
31	31	LWXXH1AA G						
32	32	LWXXH1AA H						
33	33	LWXXH1AA I						
34	34	LWXXH1AA J						
35	35	8321 CCV 200		LCMS 73/76-10				

Reviewed by: *Amie Smith* 5/31/10  
Form: SI-ORG-0028, Rev. 09/21/07  
QC Type Suffixes: B=Blank, C=Laboratory Control Sample, L=Laboratory Control Sample Duplicate, S=Matrix Spike, D=Matrix Spike Duplicate, SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

TestAmerica St. Louis  
LC/MS/MS Runlog

Batch #	Comments	#
0089089	RDX only	1
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Reviewed by: *Amie Smith* 5/31/10  
Form: SI-ORG-0028, Rev. 09/21/07  
QC Type Suffixes: B=Blank, C=Laboratory Control Sample, L=Laboratory Control Sample Duplicate, S=Matrix Spike, D=Matrix Spike Duplicate, SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10



Instrument ID No.: LCMSMS R

Logbook No.: 3346

TestAmerica St. Louis  
LC/MS/MS Runlog

Batch #	Comments	#
0088363	FPC270447 - 015	1 OK
	- 016	2 OK
	- 017	3 OK
	- 018	4 OK
0084067	FPC230487 - 002. TEP confirmation	5 OK
	- 005	6
	- 007	7
	- 009	8
0102329	FPCD120000 - 329B	9 OK
	- 329C	10 OK
	4F	11 OK
	Conditioning	12 OK
0099309	FPCD090000 - 309B	13 OK
	- 309C	14
	- 001 MS	15 OK
	- 001 MSD	16 OK
	- 002	17 OK
	- 003	18 OK
	- 004	19 OK
	- 005	20 OK
	- 006	21 OK
	- 007	22 OK
	- 008	23 OK
	- 009	24 OK
	- 010	25 OK
	- 011	26 OK
	- 012	27 OK
	- 013	28 OK
	- 014	29 OK
	- 015	30 OK
	- 016	31 OK
	- 017	32 OK
	- 018	33 OK
	- 019	34 OK
	- 020	35 OK

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Reviewed by: *[Signature]* Date: 4/15/10  
Form: SL-ORG-0028, Rev. 09/21/07  
QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; Blank Spike Duplicate. SOP References: STL-LC-0001, Rev. 6, STL-LC-0002, Rev. 10

Instrument ID No.: LCMSMS R

Logbook No.: 3346

TestAmerica St. Louis  
LC/MS/MS Runlog

Data File	Lab ID	STD#	Matrix S/W	Date	Oper.	Method
8321 CCV 200	8321 CCV 200	LCMS73/76-10	S	4-14-10	WH	8321
37	LW74E1AD					
38	F1AD					
39	G1AD					
40	21AD					
41	LW1C74AD					
42	LW1DD4AD					
43	F4AD					
44	J4AD					
45	LXVEX1AD		W			
46	1AC					
47	8321 CCV 200	LCMS73/76-10				
8321 CRI	8321 CRI			4-14-10	WH	8321
02	SPK 8UK					
03	8321 CCV 200	LCMS73/76-10				
04	LXQ9M1AA	B	S			
05	1AC	C				
06	LXNJ91AD					
07	1AG	S				
08	1AH	D		4-15-10		
09	LXNKL1AD					
10	E1AD					
11	G1AD					
12	H1AD					
13	J1AD					
14	8321 CCV 200	LCMS73/76-10				
15	LXNKL1AD		S			
16	LXFG91AA	B				
17	1AC	C				
18	LXAL41AD					
19	1AG	S				
20	1AH	D				
21	LXAL71AD					
22	81AD					
23	91AD					

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Form: SL-ORG-0028, Rev. 09/21/07  
QC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike; Blank Spike Duplicate. SOP References: STL-LC-0001, Rev. 6, STL-LC-0002, Rev. 10

TestAmerica St. Louis  
LC/MS/MS Runlog

Instrument ID No.: LCMSMS R

Data File	Lab I.D.	STD#	Matrix S/W	Date	Oper.	Method
00411024	LXAMA1AD		S	4-15-10	W H	8321
25	8321CCV 200	LCMS 73/16-10				
26	LXC8E1AD		S			
27	K1AD					
28	111AD					
29	LXC9E1CE					
30	15ICE					
31	LXDF51AD					
32	71AD					
33	81AD					
34	91AD					
35	LXDGA1AD					
36	8321CCV 200	LCMS 73/16-10				

Form: SL-ORG-0028, Rev. 09/21/07  
IC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike;  
=Matrix Spike Duplicate. SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

Logbook No.: 3346

TestAmerica St. Louis  
LC/MS/MS Runlog

Instrument ID No.: LCMSMS R

Batch #	Comments	#
004215-7	FPC 300522-007	1 OK
	NTT	2 OK
	FPC 310483-002	3 OK
	-003	4 OK
	-004	5 OK
	FPC 310488-003	6 OK
	FPC 310500-004	7 OK
	FPC 310500-004002	8 OK
	-005003 H 25,	9 OK
	-006004	10 OK
	-005 H 20,	11 OK
	-006	12 OK
		13 OK
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Reviewed by: *[Signature]* 4/16/10  
Form: SL-ORG-0028, Rev. 09/21/07  
IC Type Suffixes: B=Blank; C=Laboratory Control Sample; L=Laboratory Control Sample Duplicate; S=Matrix Spike;  
D=Matrix Spike Duplicate. SOP References: STL-LC-0001, Rev 6, STL-LC-0002, Rev 10

# **GC SAMPLE AND QC DATA**

**Form I (s)**

Polychlorinated Biphenyls

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489  
Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002  
Method: SW846 8082  
PCBs (8082)  
Sample WT/Vol: 30 / g      Date Received: 04/07/10  
Work Order: LXL41A9      Date Extracted: 04/10/10  
Dilution factor: 1      Date Analyzed: 04/16/10  
Moisture %: 9.4  
QC Batch: 0100042  
Client Sample Id: INTRA-LAB QC

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
12674-11-2	Aroclor 1016	36	U
11096-82-5	Aroclor 1260	6600	E

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	102	(49 - 150 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNJ91AF      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0102197

Client Sample Id: RE12-10-15444

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	40		U
11104-28-2	Aroclor 1221	40		U
11141-16-5	Aroclor 1232	40		U
53469-21-9	Aroclor 1242	40		U
12672-29-6	Aroclor 1248	40		U
11097-69-1	Aroclor 1254	40		U
<b>11096-82-5</b>	<b>Aroclor 1260</b>	<b>11</b>		<b>J</b>

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	115	(49 - 150 )

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKC1AF      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 16

QC Batch: 0102197

Client Sample Id: RE12-10-15443

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	39	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U
11096-82-5	Aroclor 1260	39	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	96	(49 - 150 )



## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.

SDG Number: F0D080489

Matrix: (soil/water) SOLID

Lab Sample ID: F0D080489 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g

Date Received: 04/08/10

Work Order: LXNKE1AF

Date Extracted: 04/10/10

Dilution factor: 1

Date Analyzed: 04/16/10

Moisture %: 14

QC Batch: 0100042

Client Sample Id: RE12-10-15442

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	39		U
11104-28-2	Aroclor 1221	39		U
11141-16-5	Aroclor 1232	39		U
53469-21-9	Aroclor 1242	39		U
12672-29-6	Aroclor 1248	39		U
11097-69-1	Aroclor 1254	15		J
11096-82-5	Aroclor 1260	39		U

SURROGATE RECOVERY%ACCEPTABLE LIMITS

Decachlorobiphenyl

103

(49 - 150 )

FORM I

## Los Alamos National Laboratory

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 004

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNKG1AF      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/16/10

Moisture %: 15

QC Batch: 0100042

Client Sample Id: RE12-10-15448

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	39		U
11104-28-2	Aroclor 1221	39		U
11141-16-5	Aroclor 1232	39		U
53469-21-9	Aroclor 1242	39		U
12672-29-6	Aroclor 1248	39		U
11097-69-1	Aroclor 1254	39		U
11096-82-5	Aroclor 1260	39		U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	125	(49 - 150 )

FORM I

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 042

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXRW51AA      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/16/10

Moisture %: NA      QC Batch: 0100042

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
12674-11-2	Aroclor 1016	33	U
11104-28-2	Aroclor 1221	33	U
11141-16-5	Aroclor 1232	33	U
53469-21-9	Aroclor 1242	33	U
12672-29-6	Aroclor 1248	33	U
11097-69-1	Aroclor 1254	33	U
11096-82-5	Aroclor 1260	33	U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	109	(49 - 150 )

FORM I

Los Alamos National Laboratory  
METHOD BLANK COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D120000 197

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXT9Q1AA      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0102197

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:		
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016	33		U
11104-28-2	Aroclor 1221	33		U
11141-16-5	Aroclor 1232	33		U
53469-21-9	Aroclor 1242	33		U
12672-29-6	Aroclor 1248	33		U
11097-69-1	Aroclor 1254	33		U
11096-82-5	Aroclor 1260	33		U

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	147	(72 - 140 )

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D100000 042

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXRW51AC      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/16/10

Moisture %: NA

QC Batch: 0100042

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016		166	
11096-82-5	Aroclor 1260		175	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	132	(72 - 140 )

Los Alamos National Laboratory  
CHECK SAMPLE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D120000 197

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXT9Q1AC      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: NA

QC Batch: 0102197

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	150		
11096-82-5	Aroclor 1260	153		

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	102	(72 - 140 )

Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8082  
PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E7      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/16/10

Moisture %: 9.4

QC Batch: 0100042

Client Sample Id: LAB MS/MSD

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016	269		
11096-82-5	Aroclor 1260	7100		a

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	104	(49 - 150 )

Los Alamos National Laboratory  
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNJ91AK      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0102197

Client Sample Id: RE12-10-15444

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016		190	
11096-82-5	Aroclor 1260		203	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	131	(49 - 150 )



Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D070439 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/07/10

Work Order: LXL41E6      Date Extracted: 04/10/10

Dilution factor: 1      Date Analyzed: 04/16/10

Moisture %: 9.4

QC Batch: 0100042

Client Sample Id: LAB MS/MSD

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016		259	
11096-82-5	Aroclor 1260		7100	a

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	106	(49 - 150 )

Los Alamos National Laboratory  
MATRIX SPIKE COMPOUNDS

Lab Name: TestAmerica Laboratories, Inc.      SDG Number: F0D080489

Matrix: (soil/water) SOLID      Lab Sample ID: F0D080489 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30 / g      Date Received: 04/08/10

Work Order: LXNJ91AJ      Date Extracted: 04/12/10

Dilution factor: 1      Date Analyzed: 04/15/10

Moisture %: 17

QC Batch: 0102197

Client Sample Id: RE12-10-15444

		CONCENTRATION UNITS:		
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016		195	
11096-82-5	Aroclor 1260		216	

<u>SURROGATE RECOVERY</u>	<u>%</u>	<u>ACCEPTABLE LIMITS</u>
Decachlorobiphenyl	116	(49 - 150 )

FORM I

# **GC ADDITIONAL FORMS**

## SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D080489

Extraction: XXA71QH01

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	INTRA-LAB QC	102	00
02	RE12-10-15444	115	00
03	RE12-10-15443	96	00
04	RE12-10-15442	103	00
05	RE12-10-15448	125	00
06	METHOD BLK. LXRW51AA	109	00
07	METHOD BLK. LXT9Q1AA	147*	01
08	LCS LXRW51AC	132	00
09	LCS LXT9Q1AC	102	00
10	LAB MS/MSD D	104	00
11	RE12-10-15444 D	131	00
12	LAB MS/MSD S	106	00
13	RE12-10-15444 S	116	00

SURROGATES

SRG01 = Decachlorobiphenyl

QC LIMITS

( 49-150)

- # Column to be used to flag recovery values  
 \* Values outside of required QC Limits  
 D System monitoring Compound diluted out

FORM II

## SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E6

BATCH: 0100042

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Aroclor 1016	184	ND	259	141	41 - 150	
Aroclor 1260	184	6600	7100	264*	47 - 150	a

## NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD:   0   out of   0   outside limitsSpike Recovery:   1   out of   2   outside limits

COMMENTS:

FORM III

## SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: RE12-10-15444

Level: (low/med) LOW

Lot #: F0D080489

WO #: LXNJ91AJ

BATCH: 0102197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Aroclor 1016	201	ND	195	97	41 - 150	
Aroclor 1260	201	11	216	102	47 - 150	

## NOTES (S) :

---

Results and reporting limits have been adjusted for dry weight.

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

RPD: \_\_\_0\_\_\_ out of \_\_\_0\_\_\_ outside limits

Spike Recovery: \_\_\_0\_\_\_ out of \_\_\_2\_\_\_ outside limits

COMMENTS:

---

---

FORM III

## SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: F0D070439

WO #: LXL41E7

BATCH: 0100042

COMPOUND	SPIKE	MSD	MSD		QC LIMITS		QUAL
	ADDED (ug/kg)	CONCENT. (ug/kg)	% REC	% RPD	RPD	REC	
=====	=====	=====	=====	=====	=====	=====	=====
Aroclor 1016	184	269	146	3.8	30	41 - 150	
Aroclor 1260	184	7100	266*	0.060	30	47 - 150	a

## NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD:   0   out of   2   outside limitsSpike Recovery:   1   out of   2   outside limits

COMMENTS:

FORM III

## SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Matrix Spike ID: RE12-10-15444

Level: (low/med) LOW

Lot #: F0D080489

WO #: LXNJ91AK

BATCH: 0102197

COMPOUND	SPIKE	MSD	MSD		QC LIMITS		QUAL
	ADDED (ug/kg)	CONCENT. (ug/kg)	% REC	% RPD	RPD	REC	
=====	=====	=====	=====	=====	=====	=====	=====
Aroclor 1016	201	190	95	2.5	30	41 - 150	
Aroclor 1260	201	203	96	6.2	30	47 - 150	

## NOTES (S) :

---

 Results and reporting limits have been adjusted for dry weight.

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD:   0   out of   2   outside limitsSpike Recovery:   0   out of   2   outside limits

COMMENTS:

FORM III



## SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D100000

WO #: LXRW51AC

BATCH: 0100042

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	167	166	100	72- 131	
Aroclor 1260	167	175	105	77- 133	

## NOTES (S) :

\* Values outside of QC limits

Spike Recovery:   0   out of   2   outside limits

COMMENTS:

FORM III

## SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Los Alamos National Laboratory

Lab Code: TALSTL

SDG No: F0D080489

Lot #: F0D120000

WO #: LXT9Q1AC

BATCH: 0102197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	167	150	90	72 - 131	
Aroclor 1260	167	153	92	77 - 133	

## NOTES(S) :

\* Values outside of QC limits

Spike Recovery:   0   out of   2   outside limits

COMMENTS:

FORM III

## SW846 8082 METHOD BLANK SUMMARY

## BLANK WORKORDER NO.

LXRW51AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number: F0D080489

Lab File ID: PBLK331.

Lot Number: F0D080489

Matrix: SOLID

Extraction Method: 3550B/3665A

Date Extracted: 04/10/10

Date Analyzed(1): 04/16/10

Date Analyzed(2): N/A

Time Analyzed(1): 19:53

Time Analyzed(2): N/A

Instrument ID(1): GCP

Instrument ID(2): N/A

GC Column(1): RTX-CLP ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	INTRA-LAB QC	LXLR41A9	04/16/10	N/A
02	LAB MS/MSD	LXLR41E6 S	04/16/10	N/A
03	LAB MS/MSD	LXLR41E7 D	04/16/10	N/A
04	RE12-10-15442	LXNKE1AF	04/16/10	N/A
05	RE12-10-15448	LXNKG1AF	04/16/10	N/A
06	CHECK SAMPLE	LXRW51AC C	04/16/10	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

## SW846 8082 METHOD BLANK SUMMARY

## BLANK WORKORDER NO.

LXT9Q1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALSTL

SDG Number: F0D080489

Lab File ID: VBLK632.

Lot Number: F0D080489

Matrix: SOLID

Extraction Method: 3550B/3665A

Date Extracted: 04/12/10

Date Analyzed(1): 04/15/10

Date Analyzed(2): N/A

Time Analyzed(1): 07:01

Time Analyzed(2): N/A

Instrument ID(1): GCV

Instrument ID(2): N/A

GC Column(1): RTX-CLP ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
	=====	=====	=====	=====
01	RE12-10-15444	LXNJ91AF	04/15/10	N/A
02	RE12-10-15444	LXNJ91AJ S	04/15/10	N/A
03	RE12-10-15444	LXNJ91AK D	04/15/10	N/A
04	RE12-10-15443	LXNKC1AF	04/15/10	N/A
05	CHECK SAMPLE	LXT9Q1AC C	04/15/10	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

**GC STANDARDS DATA**

**INITIAL CALIBRATION DATA**

**CALIBRATION VERIFICATION DATA**

Report Date : 19-Apr-2010 10:03

Page 1

## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Last Edit : 17-Apr-2010 10:29 target  
 Curve Type : Average

## Calibration File Names:

Level 1: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL305.D  
 Level 2: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL306.D  
 Level 3: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL307.D  
 Level 4: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL319.D  
 Level 5: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL309.D  
 Level 6: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL310.D  
 Level 7: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL311.D  
 Level 8: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL312.D

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
22 Aroclor-1016(1)	3261 2477	3081 2481	3025	2943	2757	2687	2839	10.058
(2)	6523 4895	6176 4832	6072	5921	5380	5237	5629	11.173
(3)	13469 10028	12783 10132	11928	11758	11765	10852	11589	10.435
(4)	5237 4187	5012 4268	5000	4971	4533	4495	4713	8.284
(5)	5337 4378	5085 4446	5127	5053	4661	4638	4840	7.309
23 Aroclor-1221(1)	++++ ++++	++++ ++++	++++	691	++++	++++	691	0.000 <-
(2)	++++ ++++	++++ ++++	++++	992	++++	++++	992	0.000 <-
(3)	++++ ++++	++++ ++++	++++	2661	++++	++++	2661	0.000 <-

Report Date : 19-Apr-2010 10:03

Page 2

## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Last Edit : 17-Apr-2010 10:29 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
24 Aroclor-1232(1)	+++++	+++++	+++++	3033	+++++	+++++		
	+++++	+++++					3033	0.000 <-
(2)	+++++	+++++	+++++	2635	+++++	+++++		
	+++++	+++++					2635	0.000 <-
(3)	+++++	+++++	+++++	5568	+++++	+++++		
	+++++	+++++					5568	0.000 <-
(4)	+++++	+++++	+++++	1694	+++++	+++++		
	+++++	+++++					1694	0.000 <-
(5)	+++++	+++++	+++++	1405	+++++	+++++		
	+++++	+++++					1405	0.000 <-
25 Aroclor-1242(1)	+++++	+++++	+++++	4341	+++++	+++++		
	+++++	+++++					4341	0.000 <-
(2)	+++++	+++++	+++++	2872	+++++	+++++		
	+++++	+++++					2872	0.000 <-
(3)	+++++	+++++	+++++	9590	+++++	+++++		
	+++++	+++++					9590	0.000 <-
(4)	+++++	+++++	+++++	3537	+++++	+++++		
	+++++	+++++					3537	0.000 <-
(5)	+++++	+++++	+++++	3223	+++++	+++++		
	+++++	+++++					3223	0.000 <-
26 Aroclor-1248(1)	+++++	+++++	+++++	6077	+++++	+++++		
	+++++	+++++					6077	0.000 <-

Report Date : 19-Apr-2010 10:03

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Last Edit : 17-Apr-2010 10:29 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
(2)	++++ ++++	++++ ++++	++++ ++++	6067 6067	++++ ++++	++++ ++++	6067	0.000 <-
(3)	++++ ++++	++++ ++++	++++ ++++	3404 3404	++++ ++++	++++ ++++	3404	0.000 <-
(4)	++++ ++++	++++ ++++	++++ ++++	5208 5208	++++ ++++	++++ ++++	5208	0.000 <-
(5)	++++ ++++	++++ ++++	++++ ++++	4732 4732	++++ ++++	++++ ++++	4732	0.000 <-
27 Aroclor-1254(1)	++++ ++++	++++ ++++	++++ ++++	4639 4639	++++ ++++	++++ ++++	4639	0.000 <-
(2)	++++ ++++	++++ ++++	++++ ++++	7507 7507	++++ ++++	++++ ++++	7507	0.000 <-
(3)	++++ ++++	++++ ++++	++++ ++++	8708 8708	++++ ++++	++++ ++++	8708	0.000 <-
(4)	++++ ++++	++++ ++++	++++ ++++	7104 7104	++++ ++++	++++ ++++	7104	0.000 <-
(5)	++++ ++++	++++ ++++	++++ ++++	10107 10107	++++ ++++	++++ ++++	10107	0.000 <-
28 Aroclor-1260(1)	8062 6341	7565 6322	7518	7363	6805	6701	7085	8.947
(2)	13819 10928	13105 10970	13185	12899	11849	11591	12293	8.940



Report Date : 19-Apr-2010 10:03

Page 4

## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcp.i\P100416A.b\8082A.m  
 Last Edit : 17-Apr-2010 10:29 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
(3)	13418 11275	12792 11294	12940	12833	12005	11862	12302	6.536
(4)	21083 17620	20309 17623	20599	20117	18695	18385	19304	7.164
(5)	9814 8475	9454 8403	9681	9426	8874	8855	9123	5.950
35 Aroclor-1262(1)	++++ ++++	++++ ++++	++++	5602	++++	++++	5602	0.000 <-
(2)	++++ ++++	++++ ++++	++++	8551	++++	++++	8551	0.000 <-
(3)	++++ ++++	++++ ++++	++++	12613	++++	++++	12613	0.000 <-
(4)	++++ ++++	++++ ++++	++++	21587	++++	++++	21587	0.000 <-
(5)	++++ ++++	++++ ++++	++++	9988	++++	++++	9988	0.000 <-
36 Aroclor-1268(1)	++++ ++++	++++ ++++	++++	26616	++++	++++	26616	0.000 <-
(2)	++++ ++++	++++ ++++	++++	25947	++++	++++	25947	0.000 <-
(3)	++++ ++++	++++ ++++	++++	17696	++++	++++	17696	0.000 <-

Report Date : 19-Apr-2010 10:03

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcp.i\P100416A.b\8082A.m  
 Last Edit : 17-Apr-2010 10:29 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD	
	-----	-----	-----	-----	-----	-----			
	2500.000	4000.000							
	Level 7	Level 8							
	-----	-----	-----	-----	-----	-----	-----	-----	-----
(4)	+++++	+++++	+++++	8642	+++++	+++++			
	+++++	+++++					8642	0.000	<-
	-----	-----	-----	-----	-----	-----	-----	-----	-----
(5)	+++++	+++++	+++++	47431	+++++	+++++			
	+++++	+++++					47431	0.000	<-
	-----	-----	-----	-----	-----	-----	-----	-----	-----
M 37 PCB (Total)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
	-----	-----	-----	-----	-----	-----	-----	-----	-----
=====									
\$ 32 Decachlorobiphenyl	156030	149666	120916	147725	139668	138440			
	111453	131858					136970	10.985	
	-----	-----	-----	-----	-----	-----	-----	-----	-----

Report Date : 19-Apr-2010 10:03

Page 1

TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Quant Method : ESTD Target Version : 4.14  
 Last Update : 17-Apr-2010 10:29 Number of Cpnds : 11  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	500.000000
Initial:End Threshold	30.000000
Initial:Area Threshold	100.000000
Initial:P-P Resolution	2.000000
Initial:Bunch Factor	0.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.200000
0.000:Integrator OFF	n/a
1.200:Integrator ON	n/a
8.000:Integrator OFF	n/a

Compound	RT	RT Window	RF
22 Aroclor-1016	1.966	1.876-2.056	2.84e+003
	2.241	2.151-2.331	5.63e+003
	2.624	2.534-2.714	1.16e+004
	2.739	2.649-2.829	4.71e+003
	3.096	3.006-3.186	4.84e+003
23 Aroclor-1221	1.378	1.288-1.468	6.91e+002
	1.826	1.736-1.916	9.92e+002
	1.965	1.875-2.055	2.66e+003
24 Aroclor-1232	1.963	1.873-2.053	3.03e+003
	2.240	2.150-2.330	2.64e+003
	2.623	2.533-2.713	5.57e+003
	3.495	3.405-3.585	1.69e+003
	3.673	3.583-3.763	1.40e+003
25 Aroclor-1242	2.241	2.151-2.331	4.34e+003
	2.406	2.316-2.496	2.87e+003
	2.626	2.536-2.716	9.59e+003
	3.496	3.406-3.586	3.54e+003
	3.676	3.586-3.766	3.22e+003
26 Aroclor-1248	2.624	2.534-2.714	6.08e+003
	3.094	3.004-3.184	6.07e+003
	3.169	3.079-3.259	3.40e+003
	3.496	3.406-3.586	5.21e+003
	3.673	3.583-3.763	4.73e+003
27 Aroclor-1254	3.436	3.346-3.526	4.64e+003
	3.673	3.583-3.763	7.51e+003
	4.033	3.943-4.123	8.71e+003
	4.460	4.370-4.550	7.10e+003
	4.715	4.625-4.805	1.01e+004

Report Date : 19-Apr-2010 10:03

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m

Compound	RT	RT Window	RF
28 Aroclor-1260	4.201	4.111-4.291	7.08e+003
	4.458	4.368-4.548	1.23e+004
	4.713	4.623-4.803	1.23e+004
	5.336	5.246-5.426	1.93e+004
	5.594	5.504-5.684	9.12e+003
35 Aroclor-1262	4.200	4.110-4.290	5.60e+003
	4.457	4.367-4.547	8.55e+003
	4.820	4.730-4.910	1.26e+004
	5.335	5.245-5.425	2.16e+004
	5.628	5.538-5.718	9.99e+003
36 Aroclor-1268	5.630	5.540-5.720	2.66e+004
	5.665	5.575-5.755	2.59e+004
	5.843	5.753-5.933	1.77e+004
	6.172	6.082-6.262	8.64e+003
	6.437	6.347-6.527	4.74e+004
M 37 PCB (Total)	1.000	0.920-1.080	
\$ 32 Decachlorobiphenyl	6.609	6.519-6.699	1.37e+005

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL305.D  
 Report Date: 17-Apr-2010 10:19

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL305.D  
 Lab Smp Id: ICAL-1  
 Inj Date : 16-APR-2010 11:41  
 Operator : DEK  
 Smp Info : ICAL-1  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 1  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
1.964	1.965	-0.001	163045 50.0000	57.43	80.00- 120.00	100.00 (M)
2.239	2.240	-0.001	326147 50.0000	57.94	156.12- 234.18	200.03
2.622	2.624	-0.002	673426 50.0000	58.11	341.43- 512.15	413.03
2.737	2.739	-0.002	261833 50.0000	55.56	131.57- 197.35	160.59
3.094	3.095	-0.001	266837 50.0000	55.13	135.26- 202.89	163.66
Average of Peak Amounts =			56.8340			

28						
Aroclor-1260			CAS #: 11096-82-5			
4.199	4.200	-0.001	403105 50.0000	56.90	80.00- 120.00	100.00 (M)
4.455	4.457	-0.002	690926 50.0000	56.20	139.30- 208.95	171.40
4.712	4.712	0.000	670885 50.0000	54.53	141.13- 211.70	166.43
5.334	5.335	-0.001	1054172 50.0000	54.61	219.78- 329.67	261.51
5.592	5.594	-0.002	490724 50.0000	53.79	104.32- 156.48	121.74
Average of Peak Amounts =			55.2060			

\$ 32						
Decachlorobiphenyl			CAS #:			
6.609	6.609	0.000	390075 2.50000	2.848		

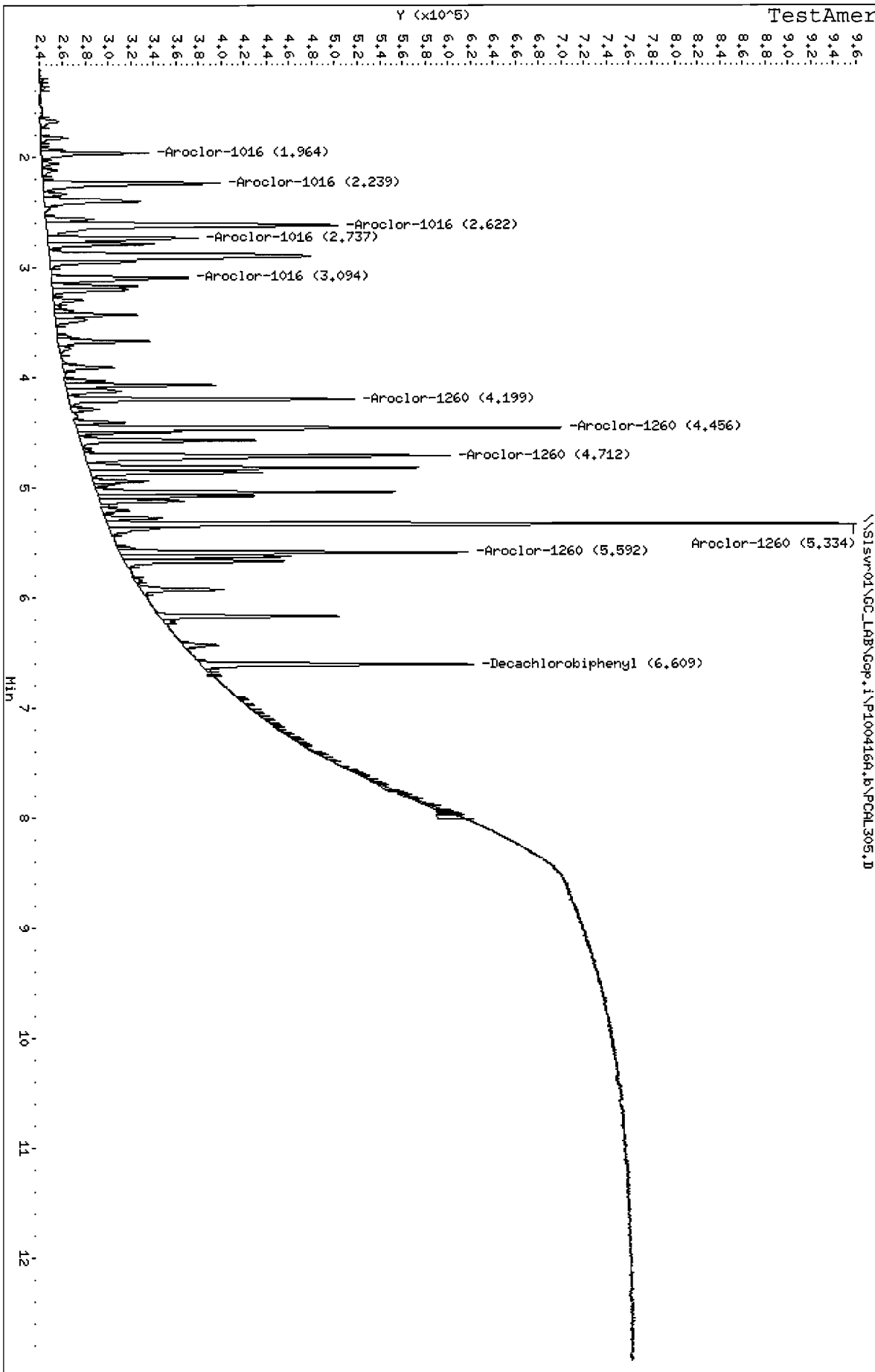
Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL305.D  
Report Date: 17-Apr-2010 10:19

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gcp.i\PI004166.b\PCAL305.D  
 Date: 16-APR-2010 11:41  
 Client ID:  
 Sample Info: ICAL-1  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



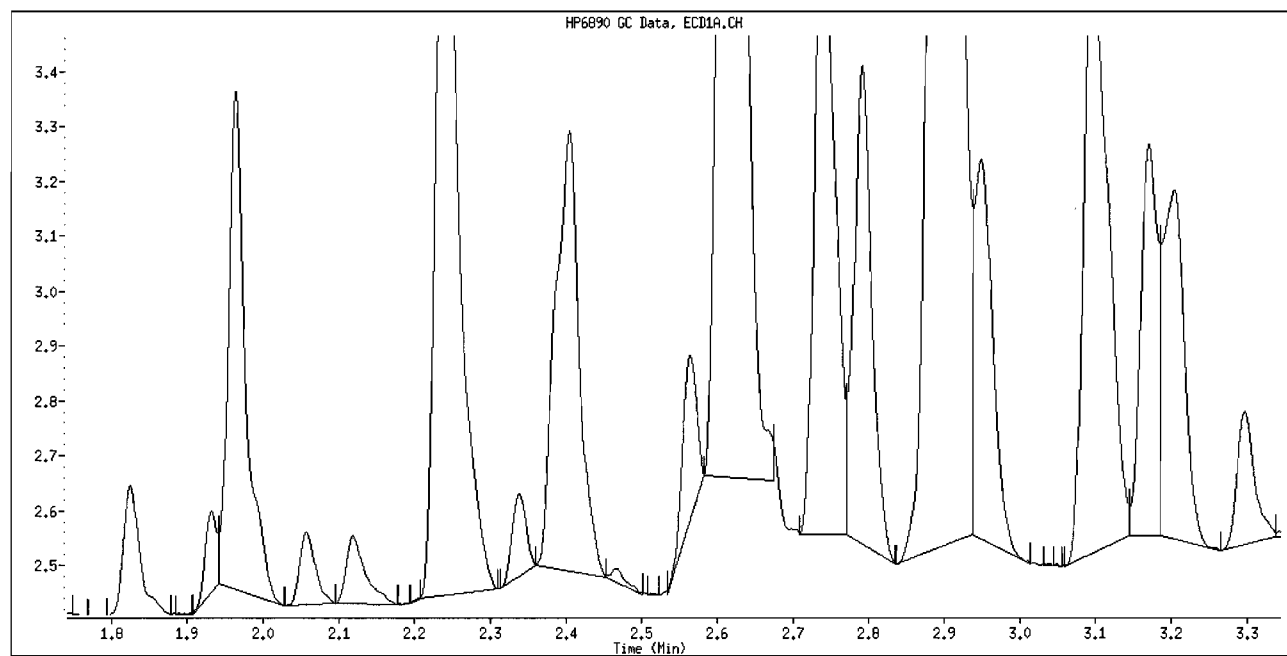
Inj. Date and Time: 16-APR-2010 11:41

Instrument ID: Gcp.i

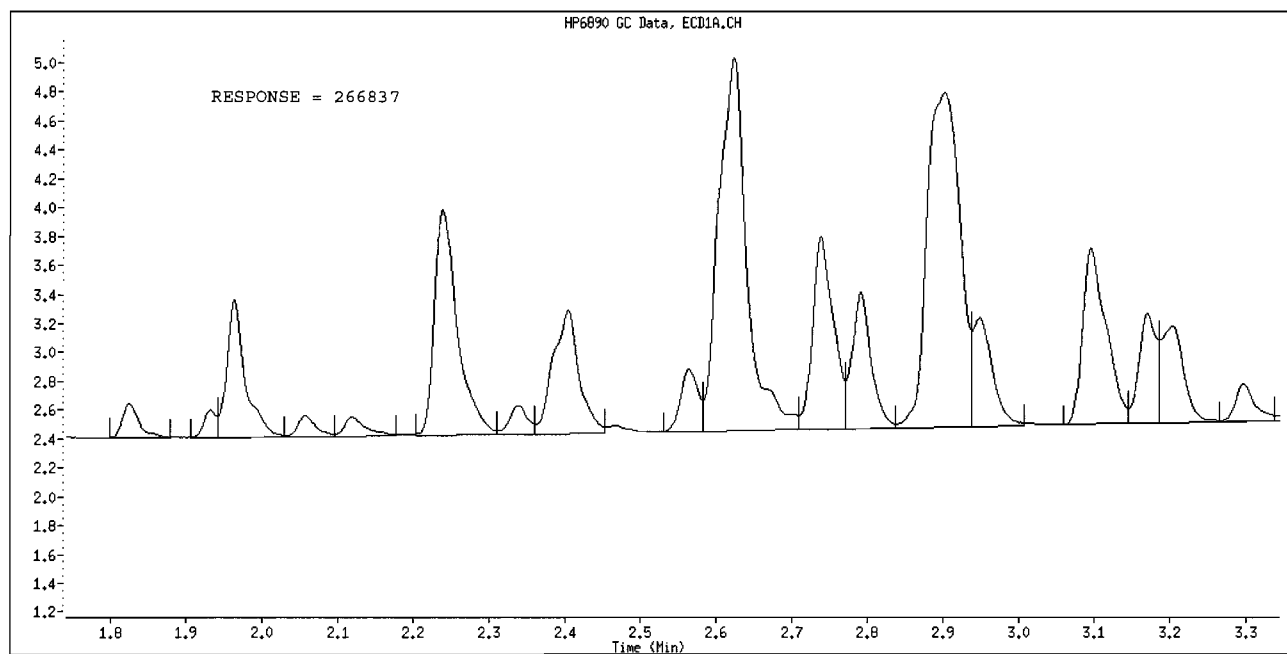
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: PCAL305.D

TestAmerica St. Louis

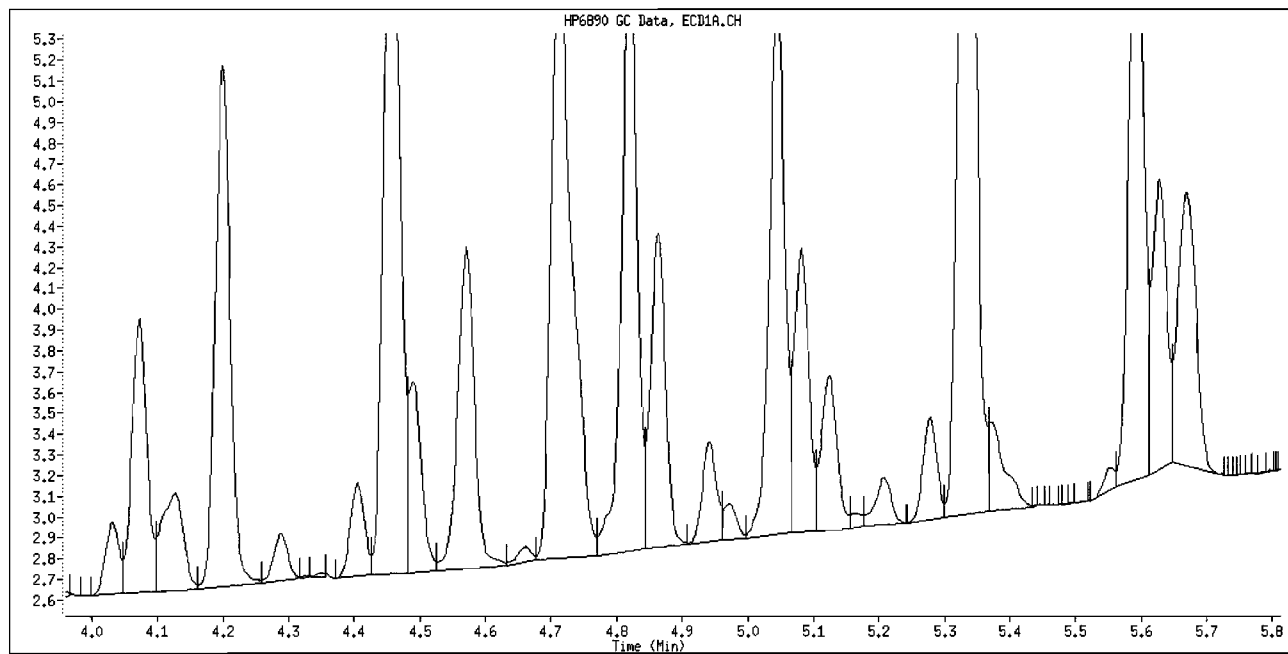
Inj. Date and Time: 16-APR-2010 11:41

Instrument ID: Gcp.i

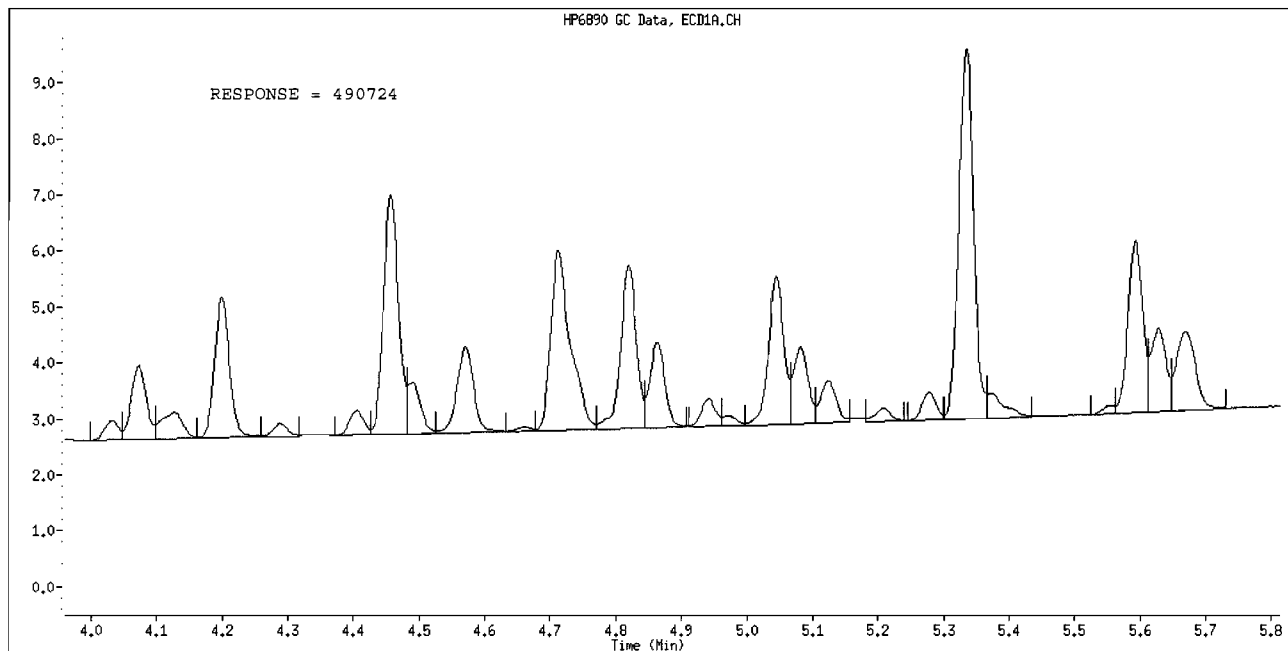
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL306.D  
 Report Date: 17-Apr-2010 10:20

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL306.D  
 Lab Smp Id: ICAL-2  
 Inj Date : 16-APR-2010 12:00  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-2  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	1.963	1.965	308101	108.5	80.00- 120.00	100.00 (M)
	2.239	2.240	617609	109.7	156.12- 234.18	200.46
	2.623	2.624	1278296	110.3	341.43- 512.15	414.90
	2.738	2.739	501199	106.3	131.57- 197.35	162.67
	3.093	3.095	508545	105.1	135.26- 202.89	165.06
Average of Peak Amounts =			107.980			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.199	4.200	756540	106.8	80.00- 120.00	100.00 (M)
	4.456	4.457	1310520	106.6	139.30- 208.95	173.23
	4.711	4.712	1279158	104.0	141.13- 211.70	169.08
	5.333	5.335	2030852	105.2	219.78- 329.67	268.44
	5.593	5.594	945438	103.6	104.32- 156.48	124.97
Average of Peak Amounts =			105.240			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.609	6.609	748332	5.463		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL306.D  
Report Date: 17-Apr-2010 10:20

TestAmerica St. Louis  
Page 2

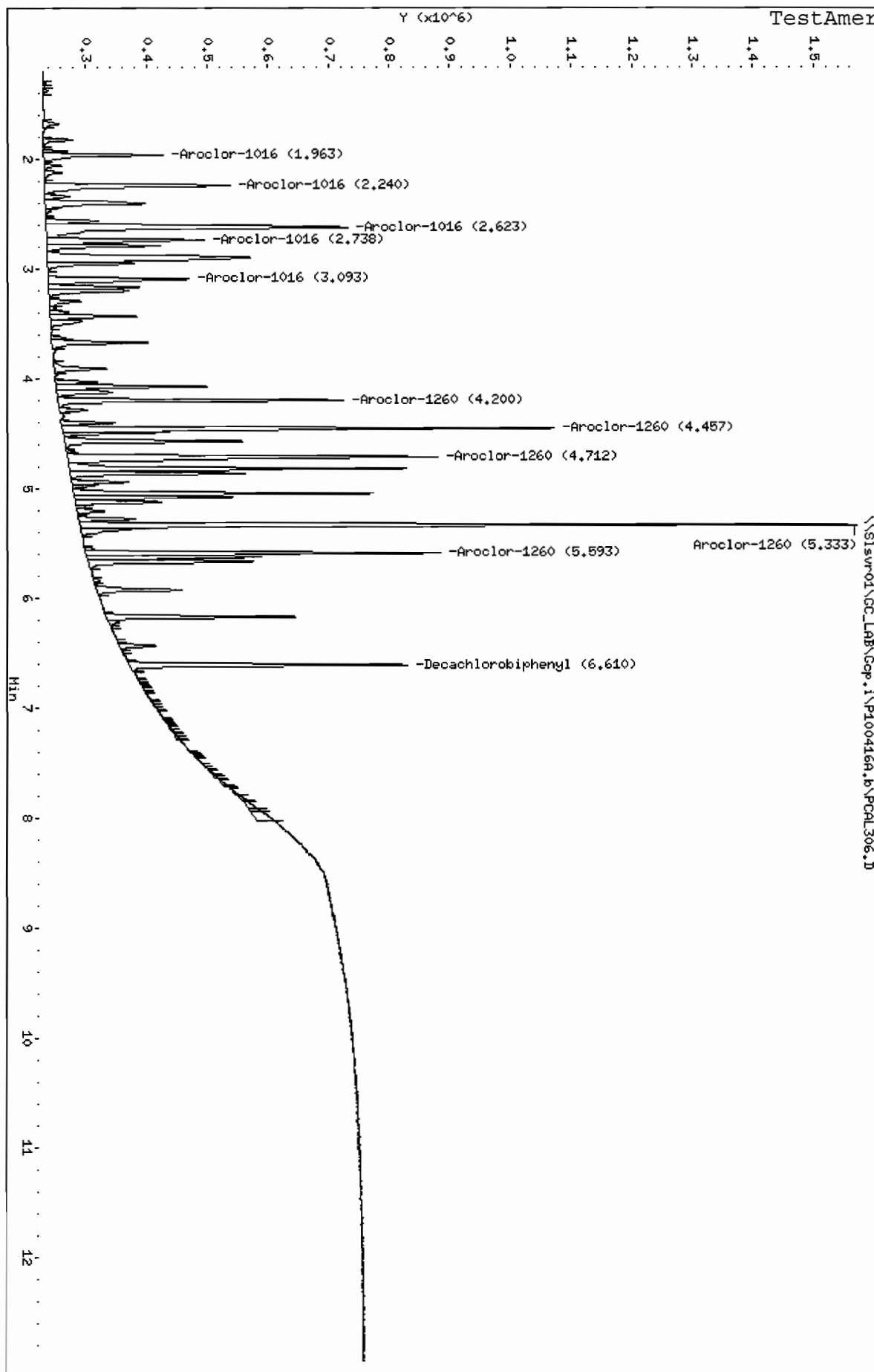
#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\CC\_LAB\Gcp.i\P100416A.b\PCAL306.D  
Date: 16-APR-2010 12:00  
Client ID:  
Sample Info: ICAL-2  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53

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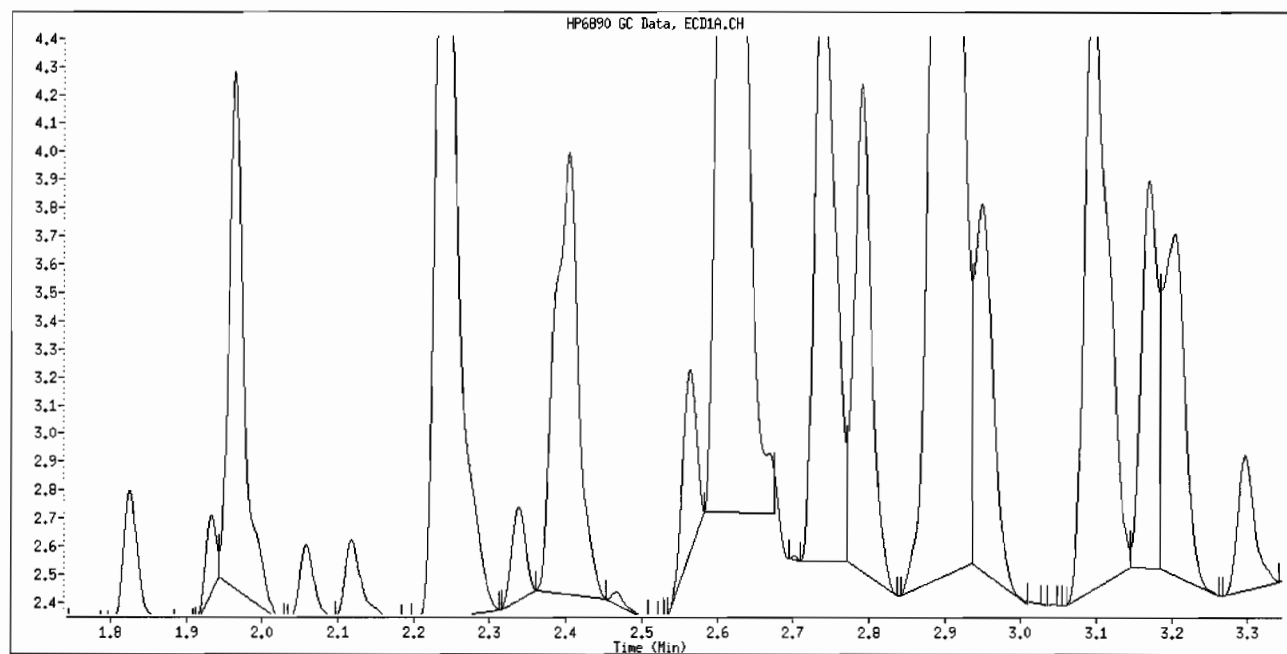
Inj. Date and Time: 16-APR-2010 12:00

Instrument ID: Gcp.i

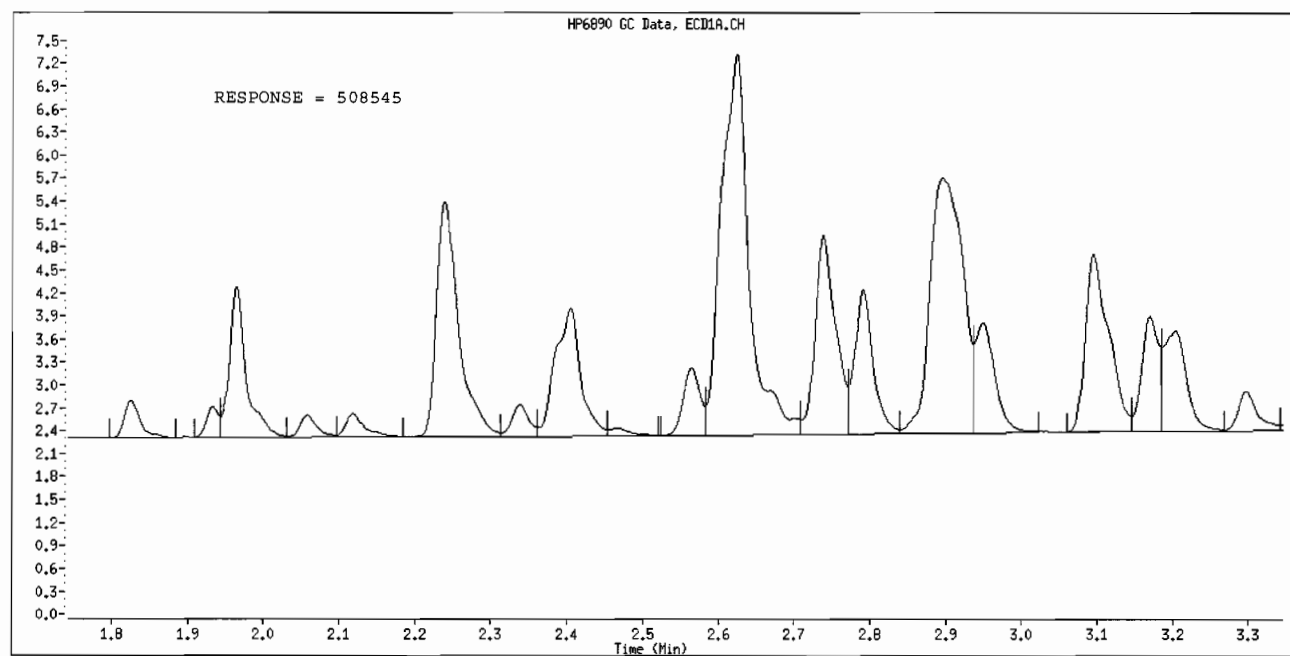
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



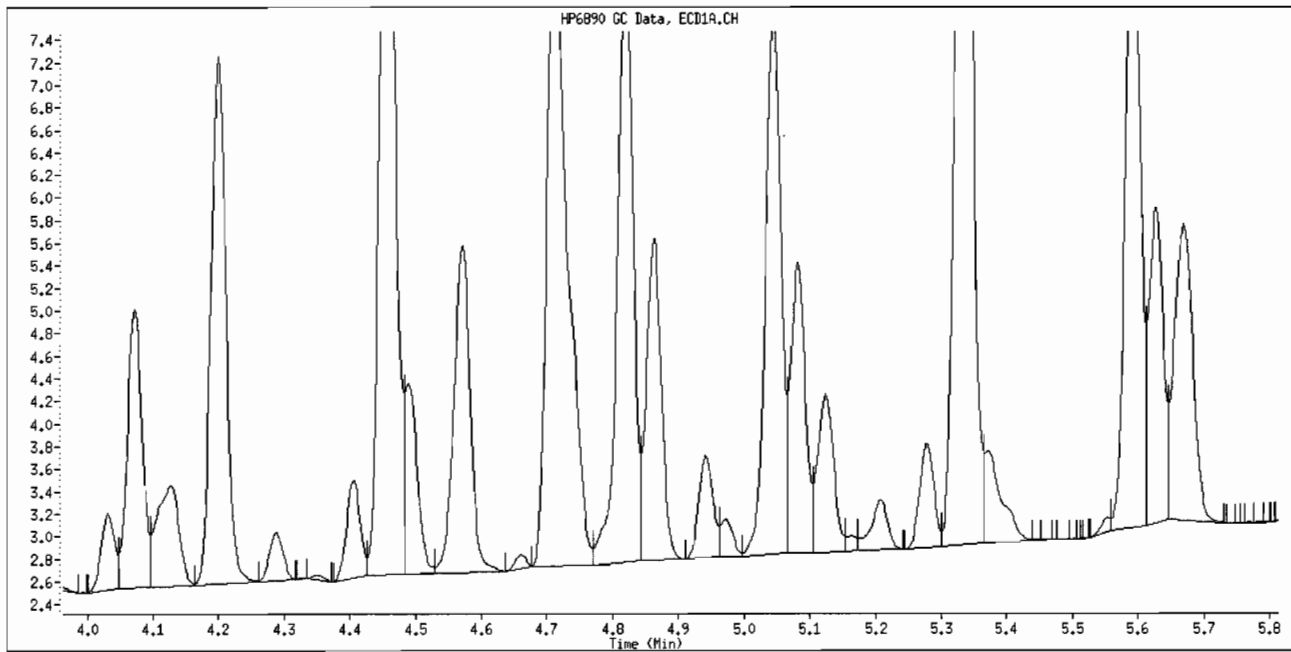
Manual Integration

Manually Integrated By: konopkad

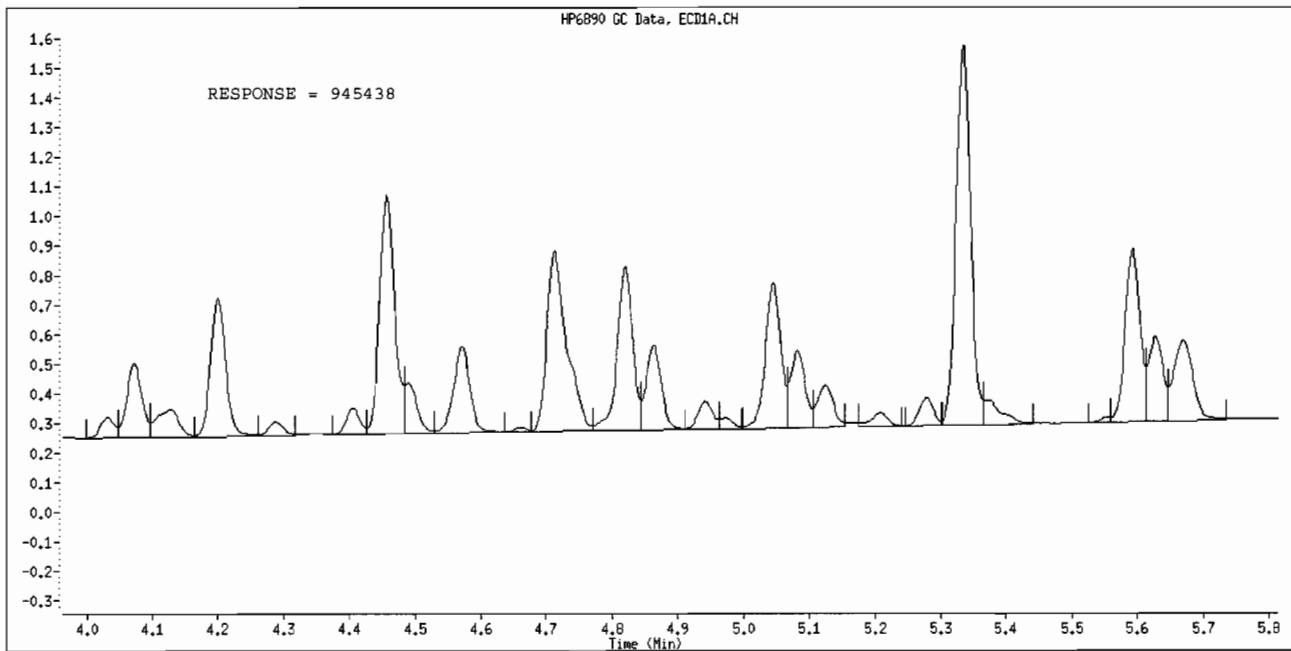
Manual Integration Reason: Baseline Event

Data File Name: PCAL306.D  
Inj. Date and Time: 16-APR-2010 12:00  
Instrument ID: Gcp.i  
Client ID:  
Compound Name: Aroclor-1260  
CAS #: 11096-82-5

TestAmerica St. Louis



Original Integration

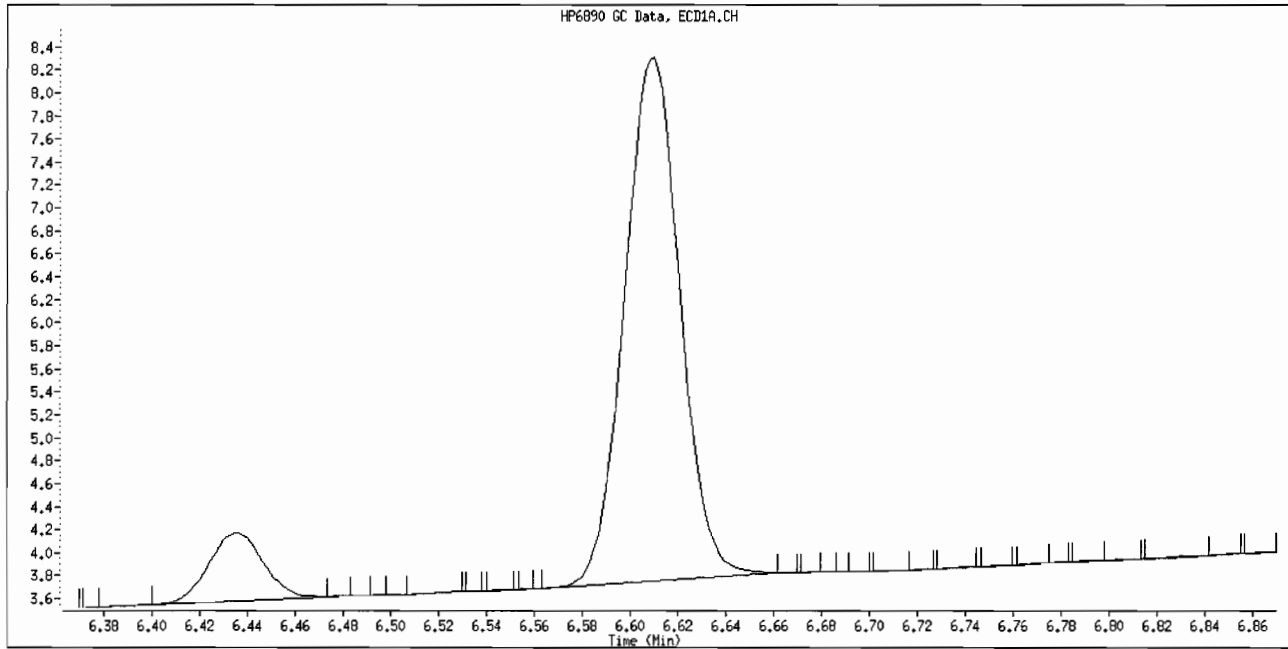


Manual Integration

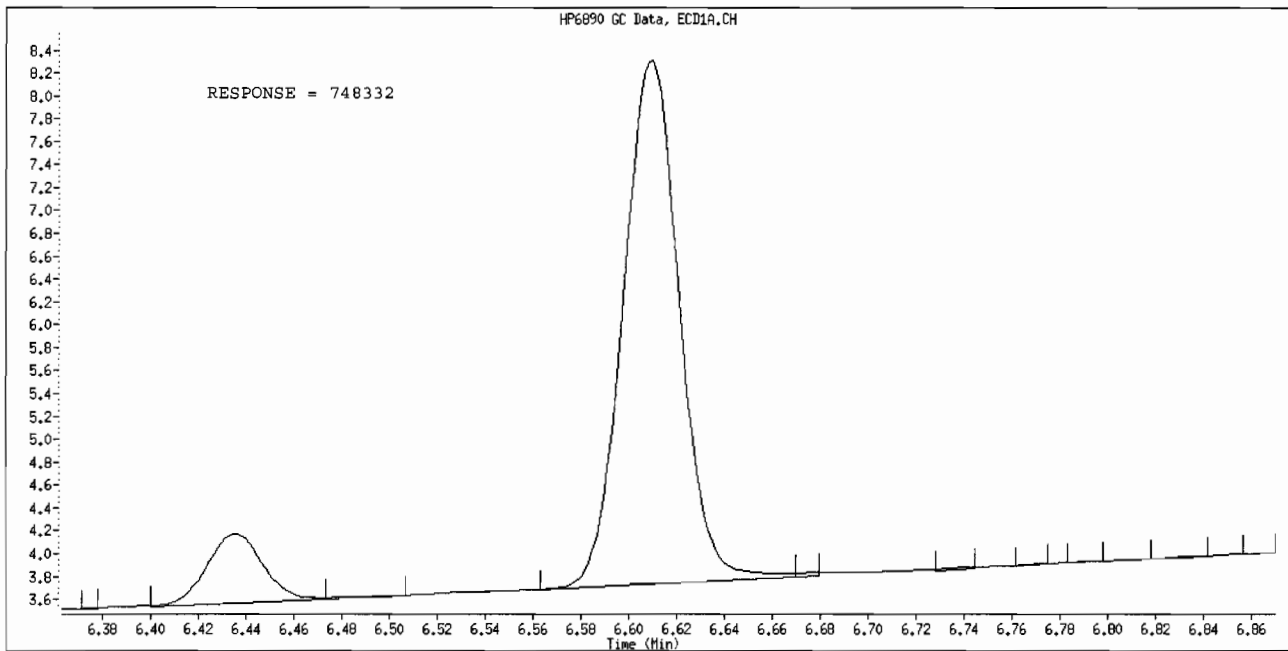
Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

Data File Name: PCAL306.D  
Inj. Date and Time: 16-APR-2010 12:00  
Instrument ID: Gcp.i  
Client ID:  
Compound Name: Decachlorobiphenyl  
CAS #:

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL307.D  
 Report Date: 17-Apr-2010 10:20

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL307.D  
 Lab Smp Id: ICAL-3  
 Inj Date : 16-APR-2010 12:19  
 Operator : DEK  
 Smp Info : ICAL-3  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 3  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
22 Aroclor-1016			CAS #: 12674-11-2			
1.963	1.965	-0.002	604908 200.000	213.1	80.00- 120.00	100.00 (M)
2.238	2.240	-0.002	1214446 200.000	215.7	156.12- 234.18	200.77
2.623	2.624	-0.001	2385619 200.000	205.8	341.43- 512.15	394.38
2.737	2.739	-0.002	1000097 200.000	212.2	131.57- 197.35	165.33
3.093	3.095	-0.002	1025332 200.000	211.8	135.26- 202.89	169.50
Average of Peak Amounts =			211.720			

28 Aroclor-1260			CAS #: 11096-82-5			
4.198	4.200	-0.002	1503500 200.000	212.2	80.00- 120.00	100.00 (M)
4.457	4.457	0.000	2636917 200.000	214.5	139.30- 208.95	175.39
4.712	4.712	0.000	2587944 200.000	210.4	141.13- 211.70	172.13
5.333	5.335	-0.002	4119778 200.000	213.4	219.78- 329.67	274.01
5.592	5.594	-0.002	1936157 200.000	212.2	104.32- 156.48	128.78
Average of Peak Amounts =			212.540			

\$ 32 Decachlorobiphenyl			CAS #:			
6.608	6.609	-0.001	1511449 12.5000	11.03		(M)



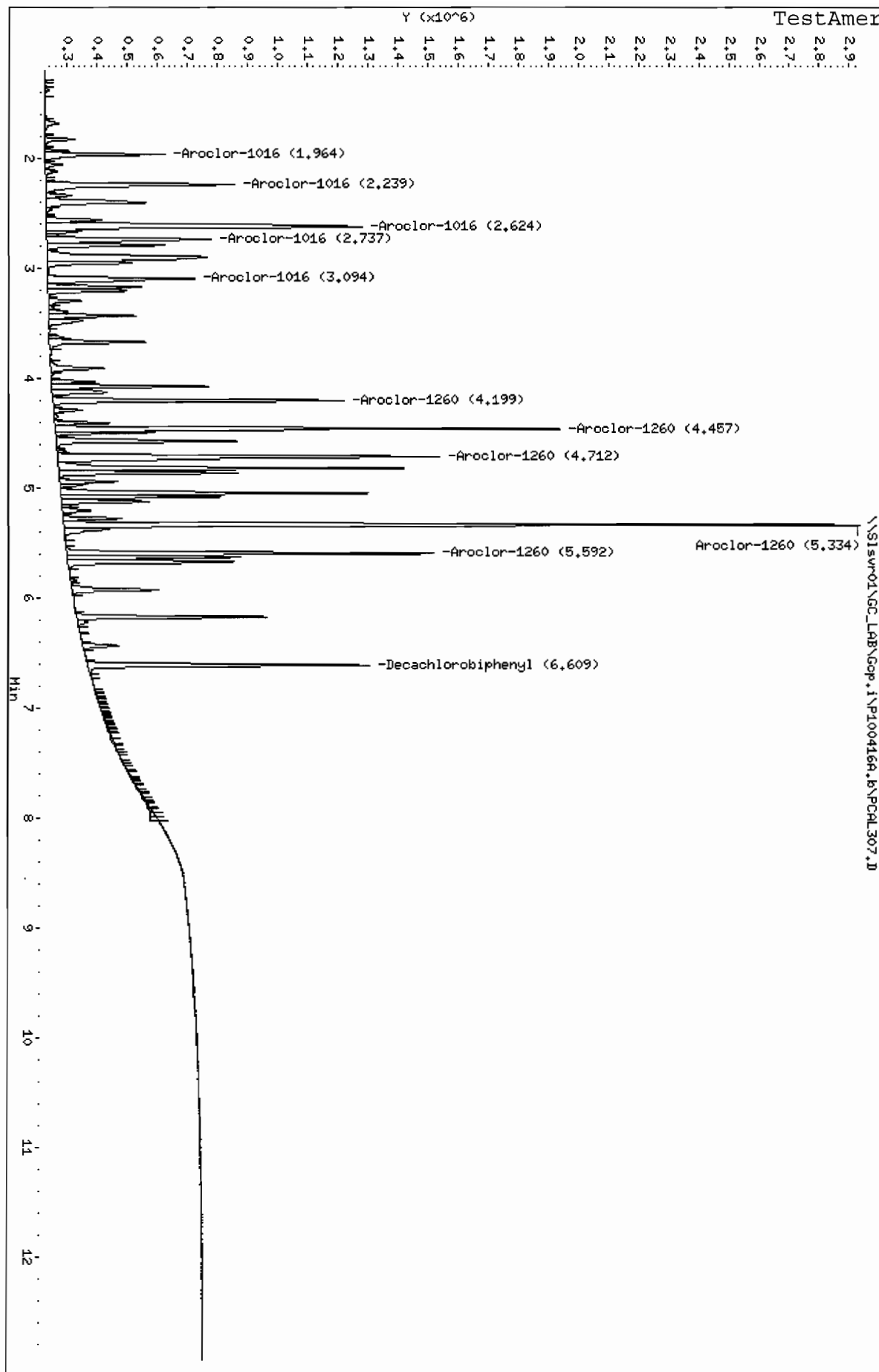
Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL307.D  
Report Date: 17-Apr-2010 10:20

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QC Flag Legend

M - Compound response manually integrated.

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



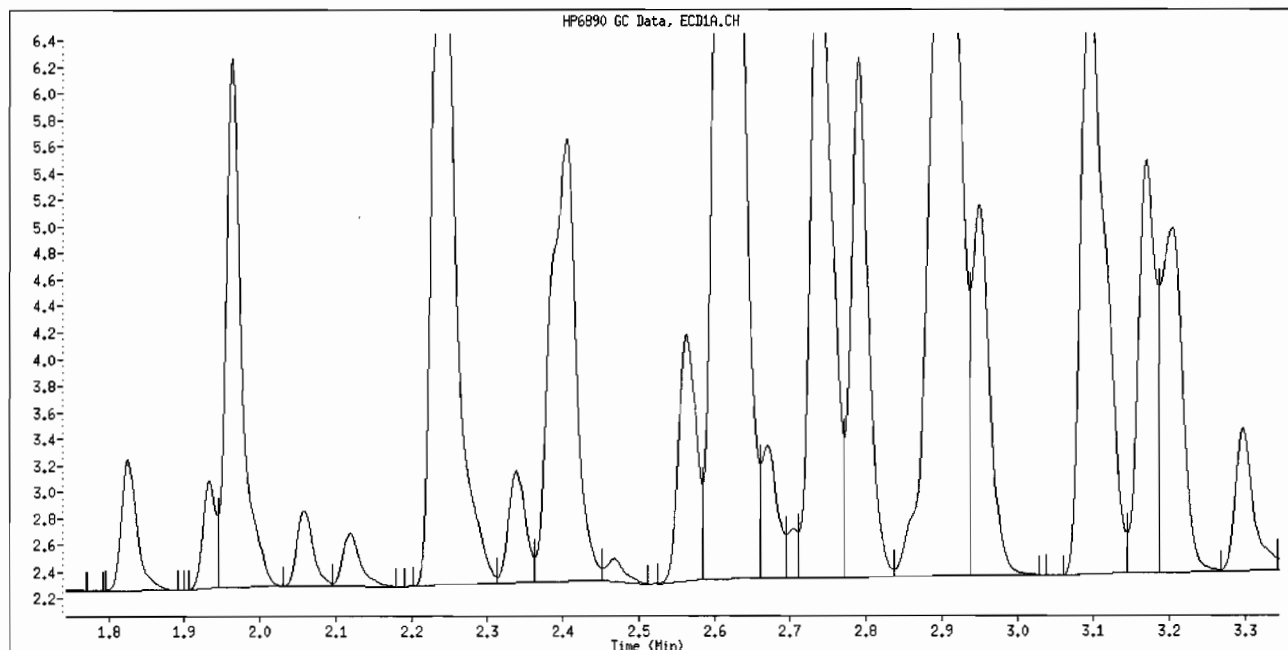
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

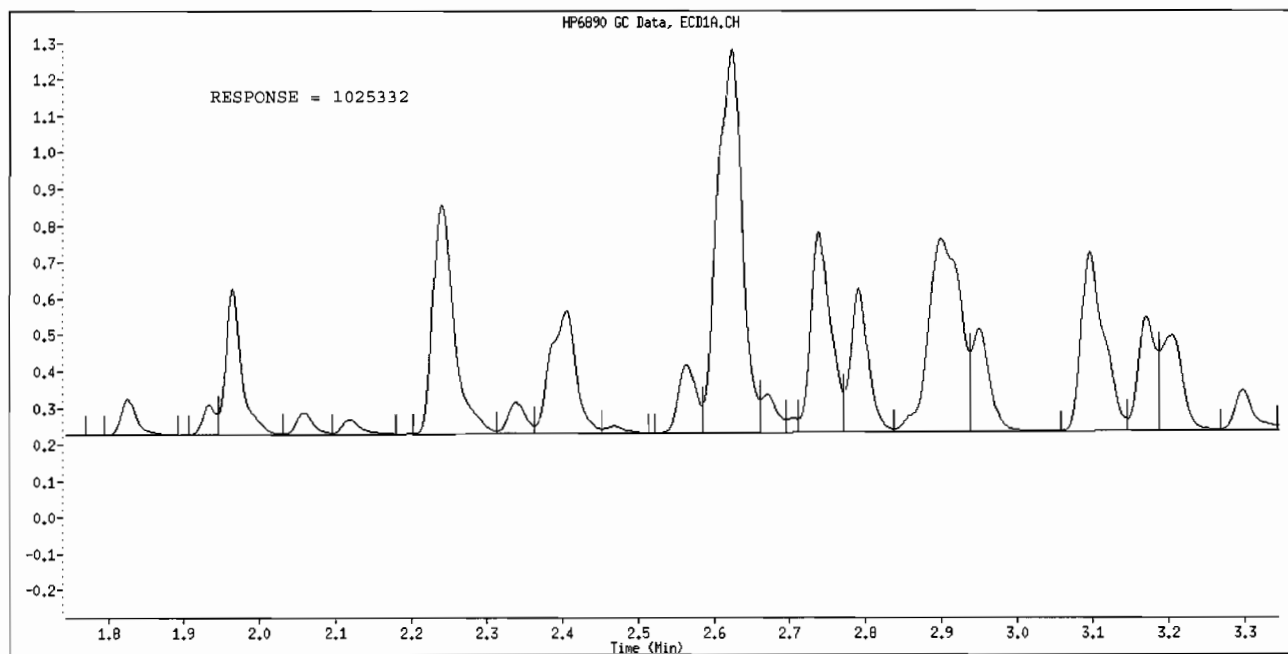
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

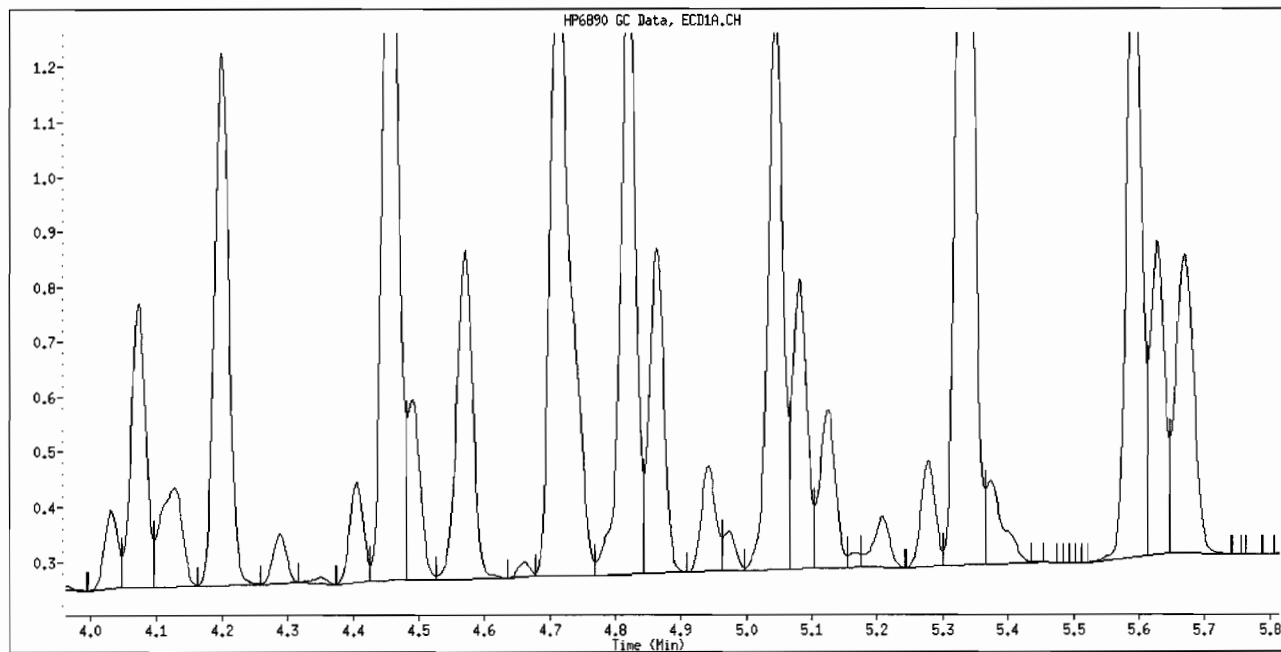
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

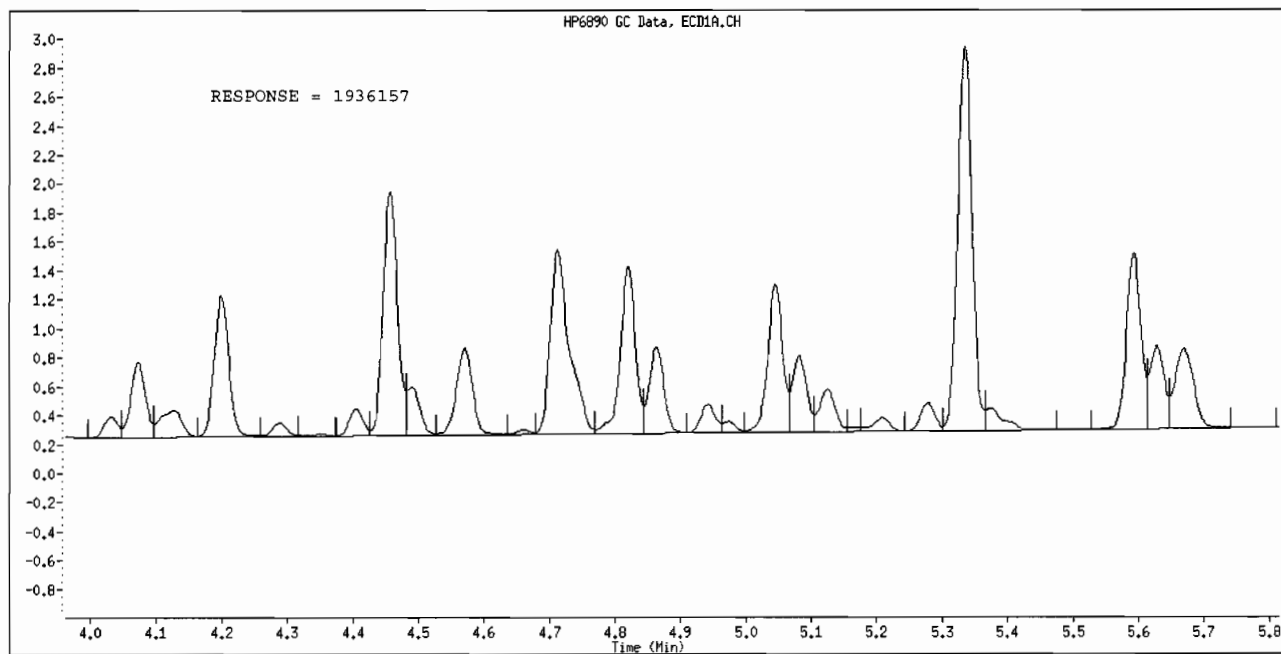
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL307.D

TestAmerica St. Louis

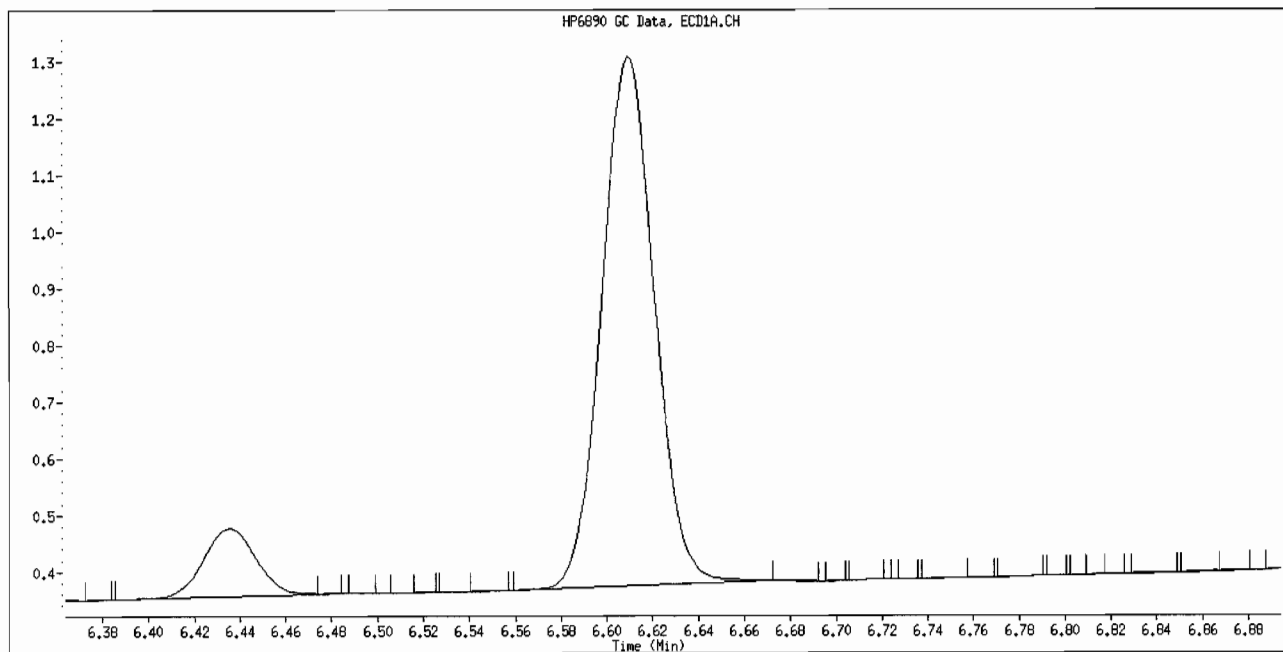
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

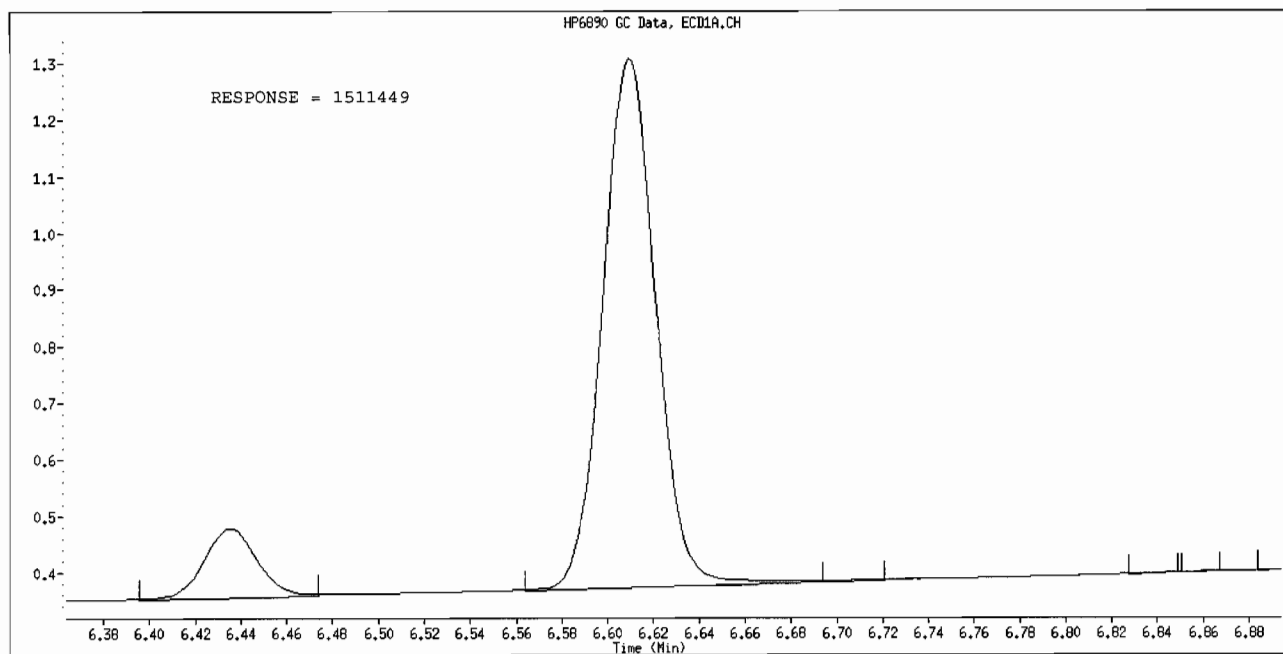
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL308.D  
 Report Date: 17-Apr-2010 10:20

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL308.D  
 Lab Smp Id: ICAL-4  
 Inj Date : 16-APR-2010 12:38  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-4  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
1.964	1.965	-0.001	1471340 500.000	518.3	80.00- 120.00	100.00 (M)
2.239	2.240	-0.001	2960259 500.000	525.8	156.12- 234.18	201.19
2.622	2.624	-0.002	5879012 500.000	507.3	341.43- 512.15	399.57
2.737	2.739	-0.002	2485406 500.000	527.4	131.57- 197.35	168.92
3.094	3.095	-0.001	2526328 500.000	521.9	135.26- 202.89	171.70
Average of Peak Amounts =			520.140			

28						
Aroclor-1260			CAS #: 11096-82-5			
4.197	4.200	-0.003	3681533 500.000	519.6	80.00- 120.00	100.00 (M)
4.456	4.457	-0.001	6449492 500.000	524.6	139.30- 208.95	175.18
4.711	4.712	-0.001	6416551 500.000	521.6	141.13- 211.70	174.29
5.334	5.335	-0.001	10058252 500.000	521.0	219.78- 329.67	273.21
5.592	5.594	-0.002	4712775 500.000	516.6	104.32- 156.48	128.01
Average of Peak Amounts =			520.680			

\$ 32						
Decachlorobiphenyl			CAS #:			
6.609	6.609	0.000	3693122 25.0000	26.96		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL308.D  
Report Date: 17-Apr-2010 10:20

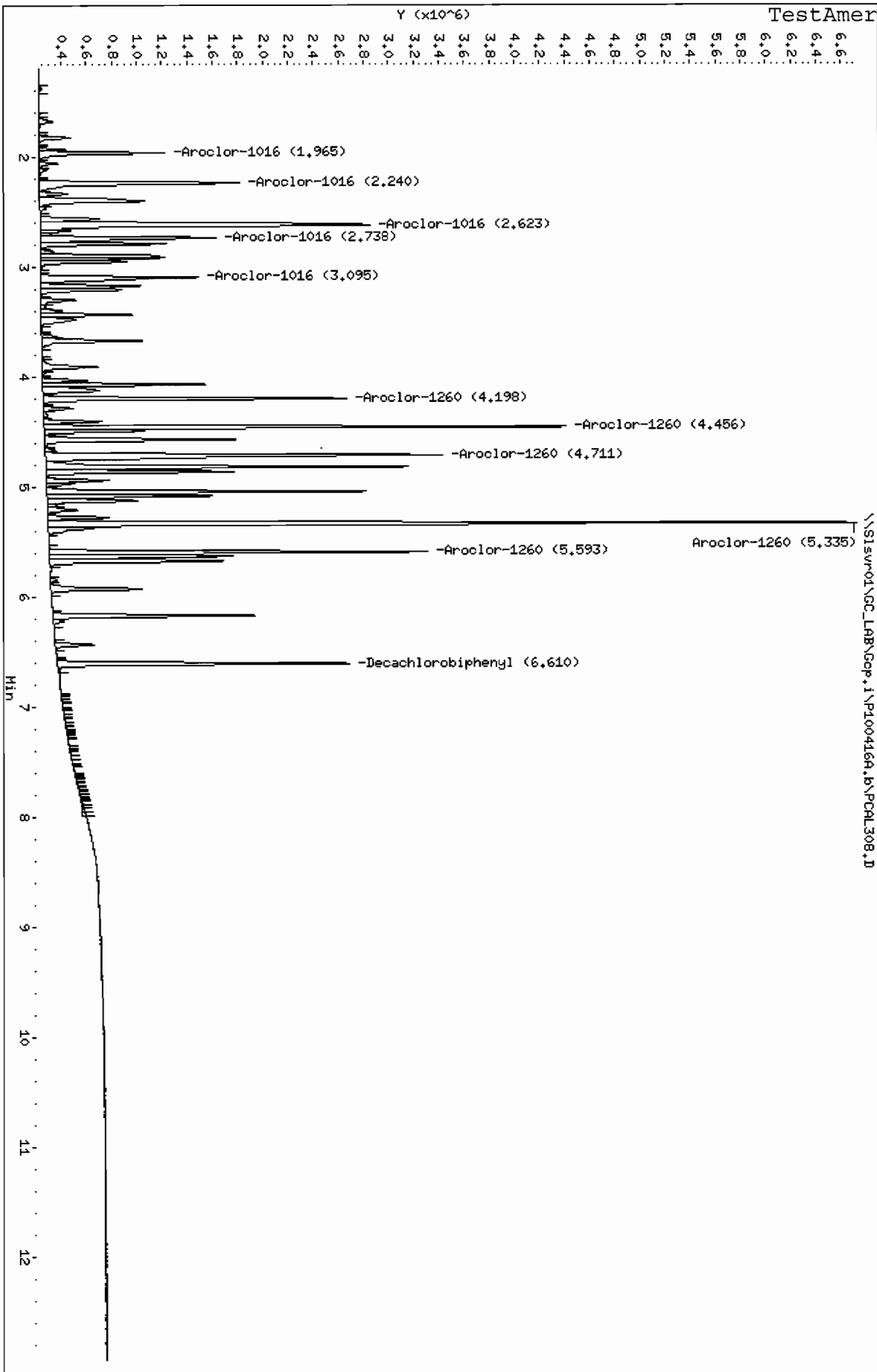
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\NC\_LAB\Gcp.i\NP100416a.b\PCAL308.D  
Date: 16-APR-2010 12:38  
Client ID:  
Sample Info: ICAL-4  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53





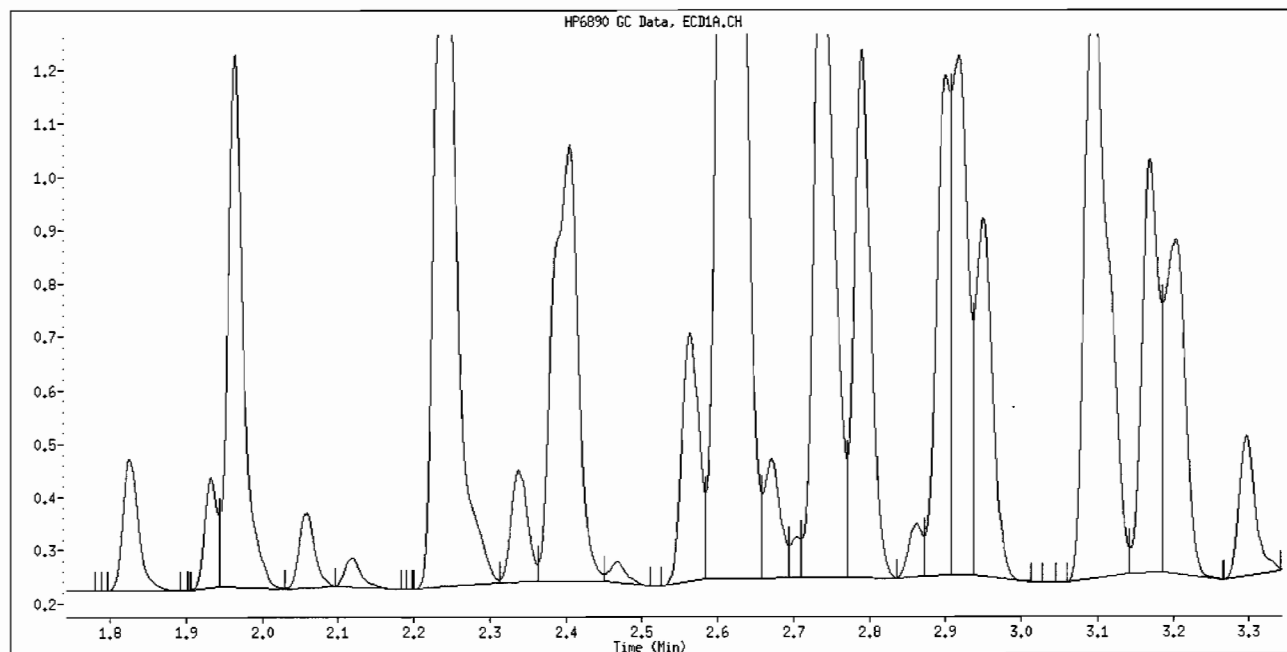
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

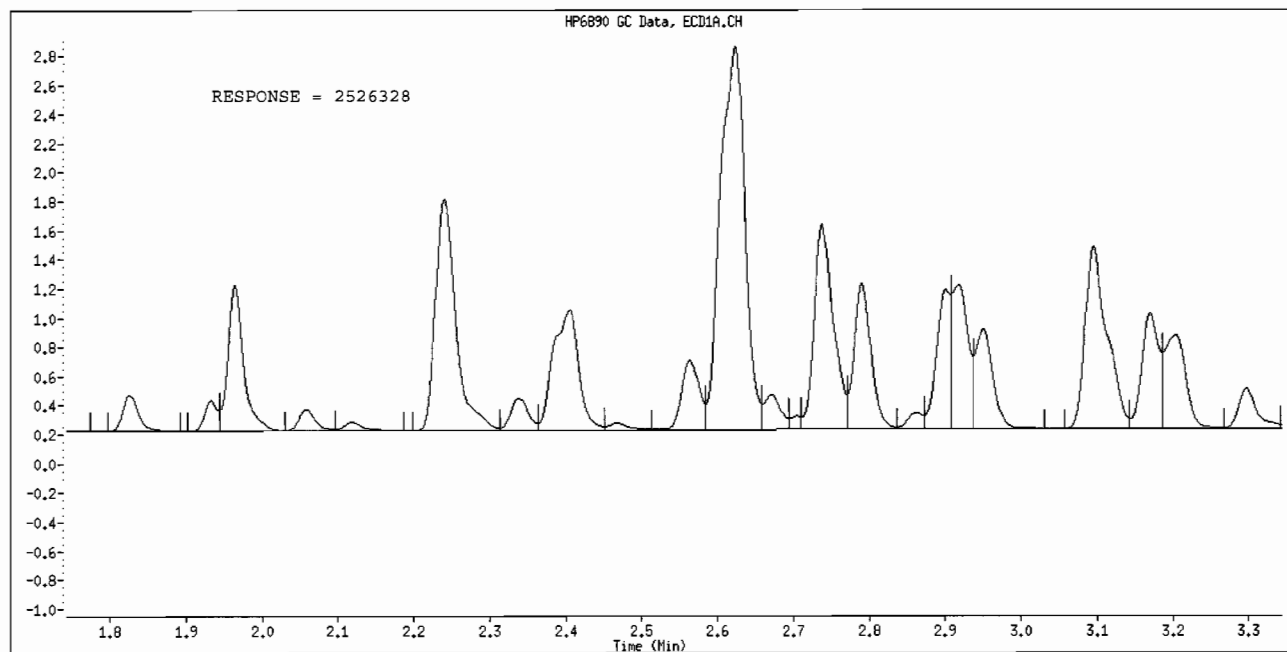
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

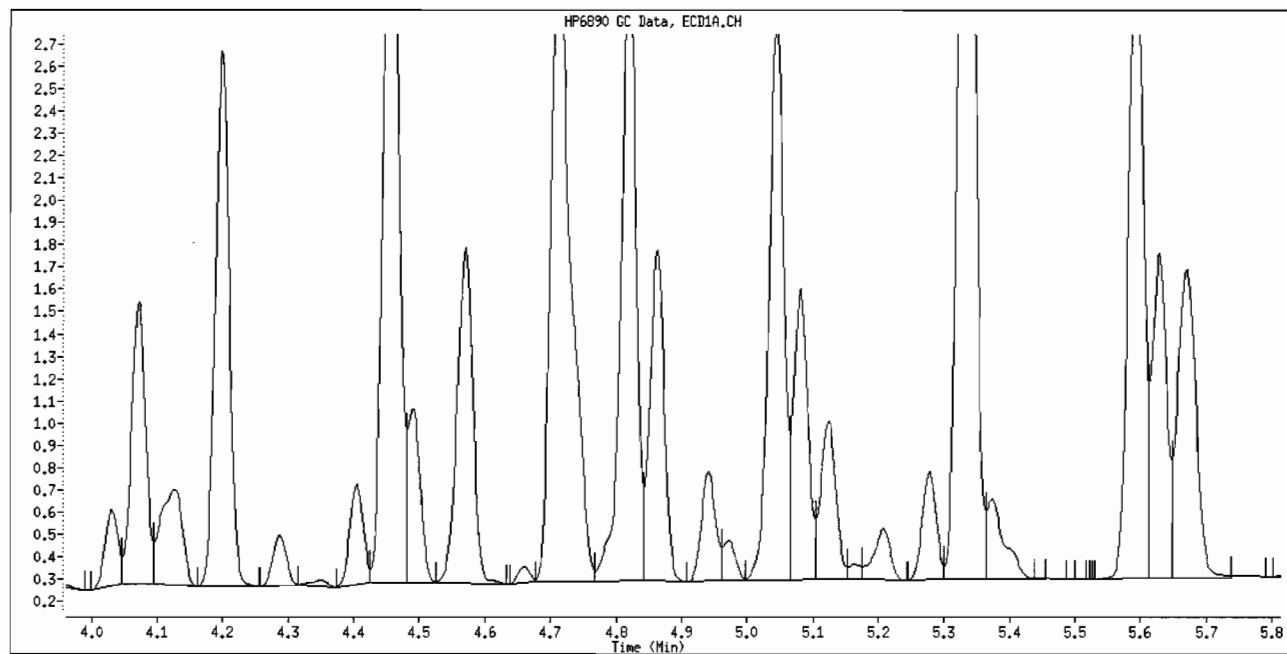
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

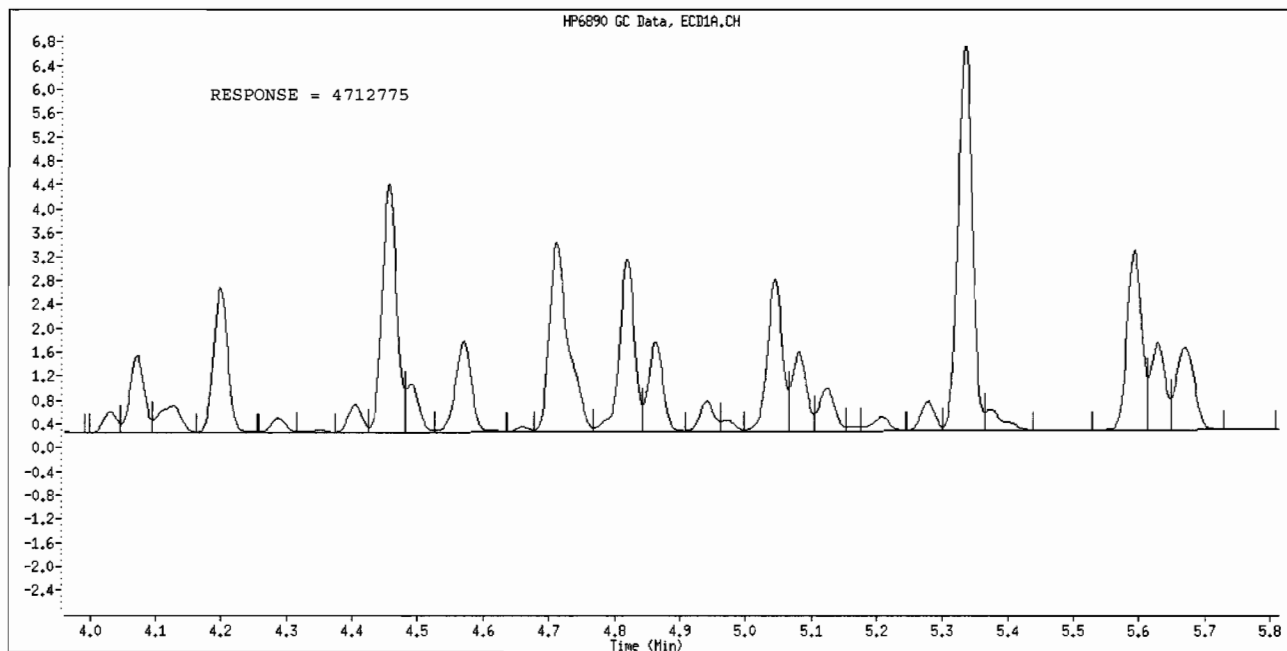
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

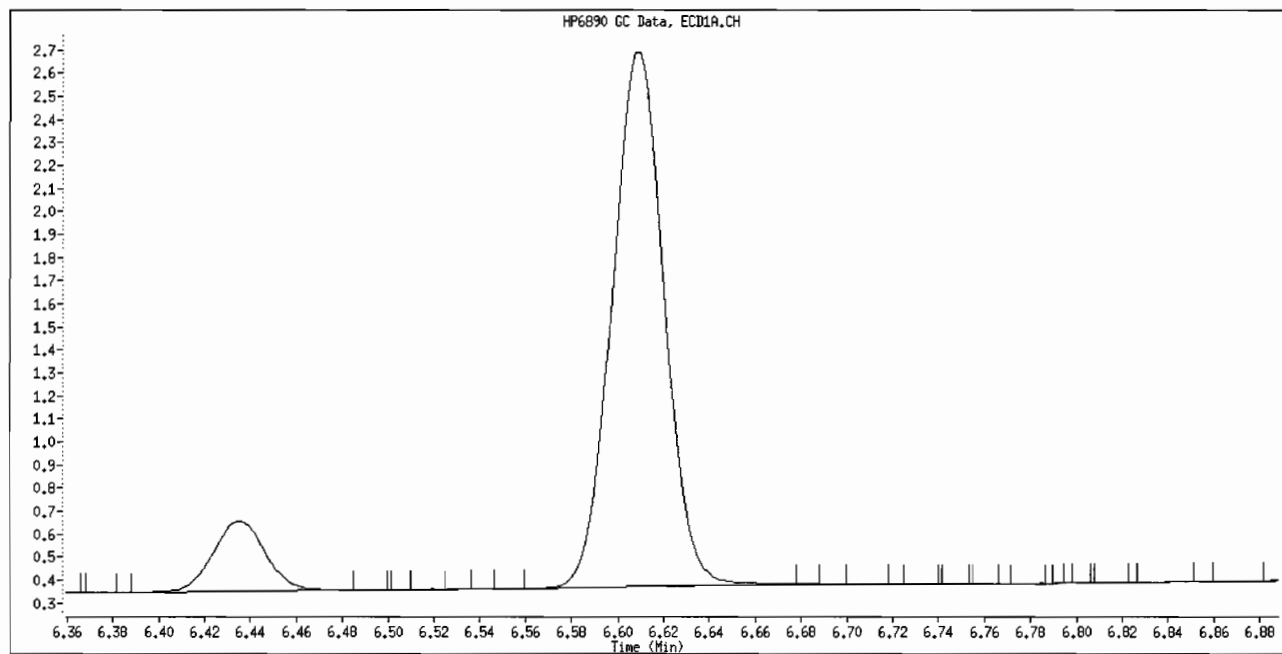
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

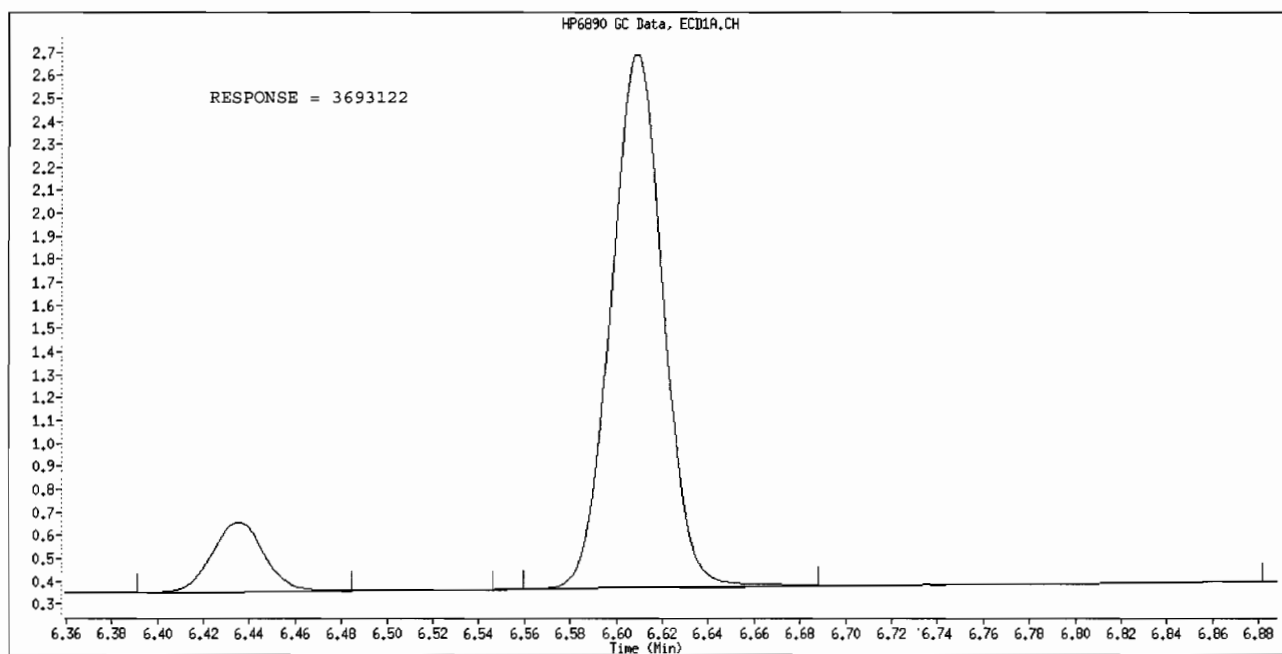
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL309.D  
 Report Date: 17-Apr-2010 10:18

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL309.D  
 Lab Smp Id: ICAL-5  
 Inj Date : 16-APR-2010 12:57  
 Operator : DEK  
 Smp Info : ICAL-5  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:18 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 5  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
22 Aroclor-1016			CAS #: 12674-11-2			
1.965	1.965	0.000	2756626 1000.00	971.0	80.00- 120.00	100.00 (M)
2.240	2.240	0.000	5379611 1000.00	955.6	156.12- 234.18	195.15
2.624	2.624	0.000	11765013 1000.00	1015	341.43- 512.15	426.79
2.739	2.739	0.000	4533470 1000.00	961.9	131.57- 197.35	164.46
3.095	3.095	0.000	4660809 1000.00	962.9	135.26- 202.89	169.08
Average of Peak Amounts =			973.280			

28 Aroclor-1260			CAS #: 11096-82-5			
4.200	4.200	0.000	6804981 1000.00	960.5	80.00- 120.00	100.00 (M)
4.457	4.457	0.000	11849226 1000.00	963.9	139.30- 208.95	174.13
4.712	4.712	0.000	12005237 1000.00	975.8	141.13- 211.70	176.42
5.335	5.335	0.000	18695009 1000.00	968.5	219.78- 329.67	274.73
5.594	5.594	0.000	8873662 1000.00	972.7	104.32- 156.48	130.40
Average of Peak Amounts =			968.280			

\$ 32 Decachlorobiphenyl			CAS #:			
6.609	6.609	0.000	6983407 50.0000	50.98		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL309.D  
Report Date: 17-Apr-2010 10:18

Page 2

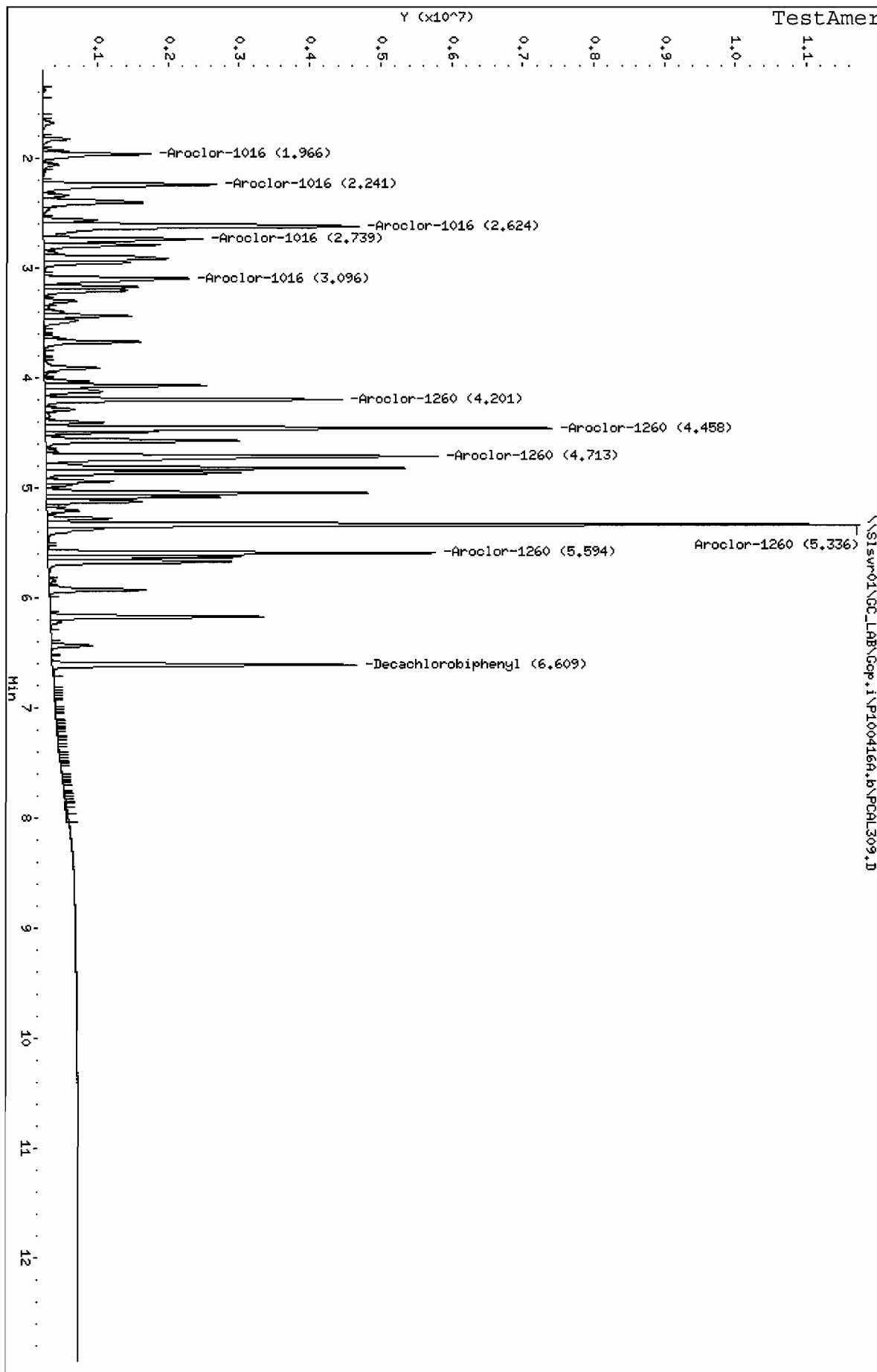
QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gcp.i\P100416A,b\PCAL309.D  
Date: 16-APR-2010 12:57  
Client ID:  
Sample Info: ICAL-5  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53

Page 1



Data File Name: PCAL309.D

TestAmerica St. Louis

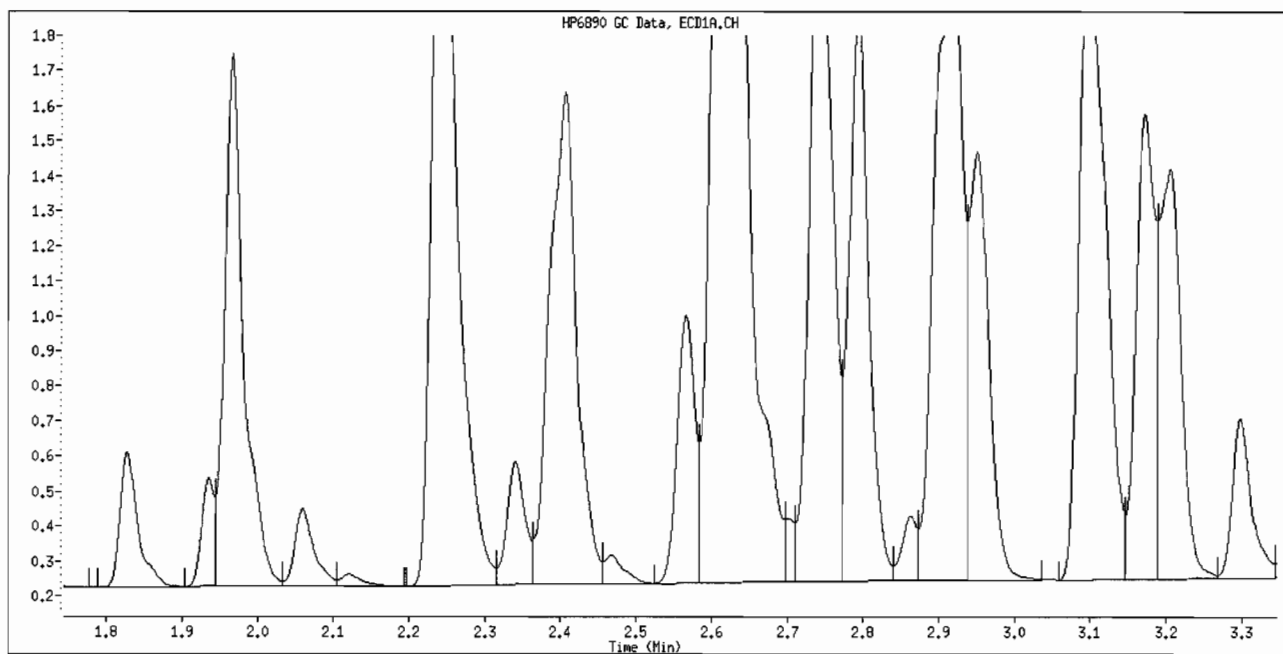
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

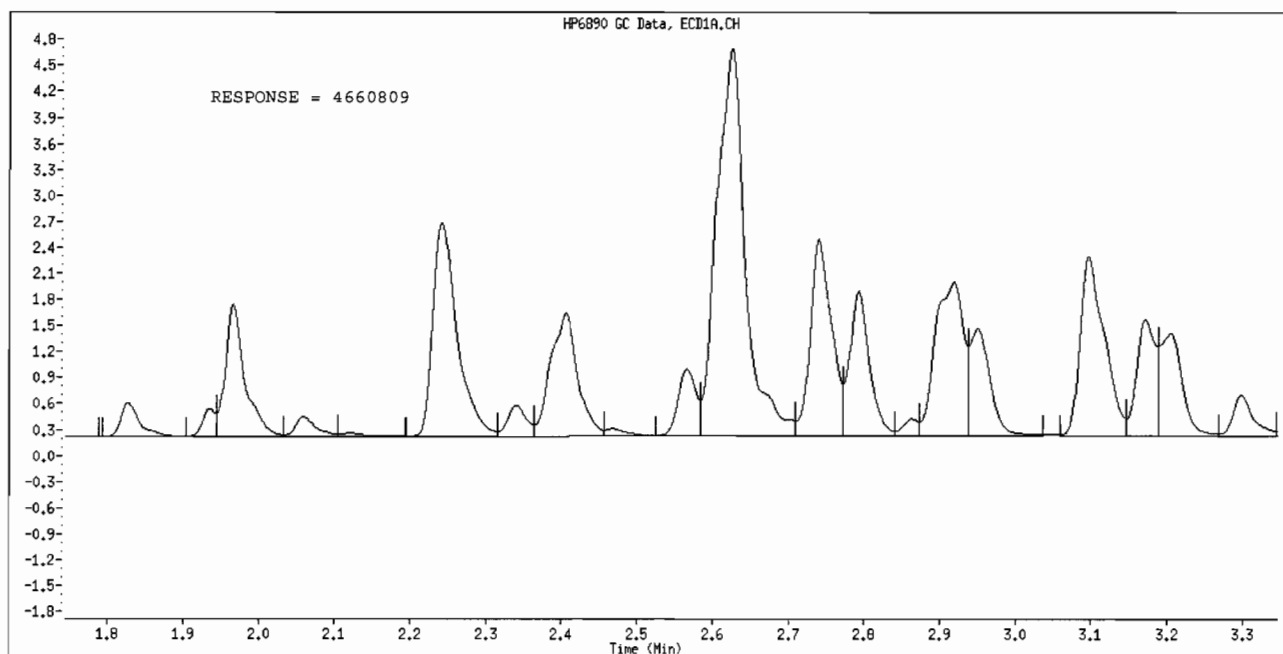
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL309.D

TestAmerica St. Louis

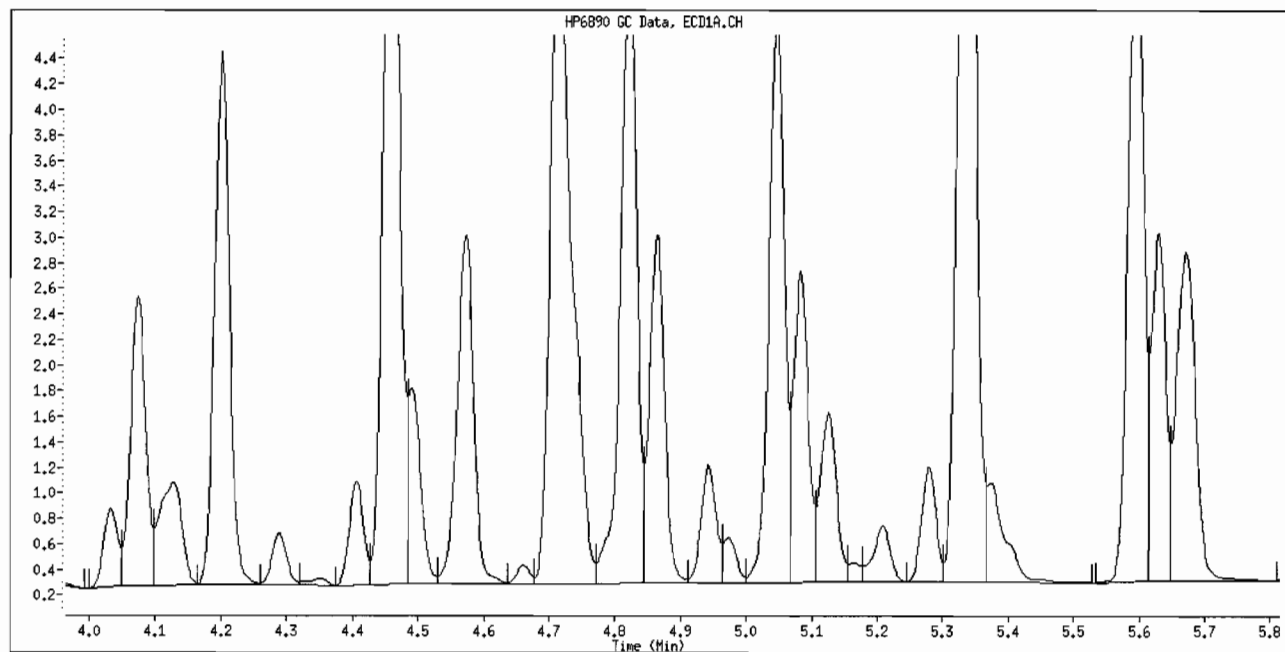
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

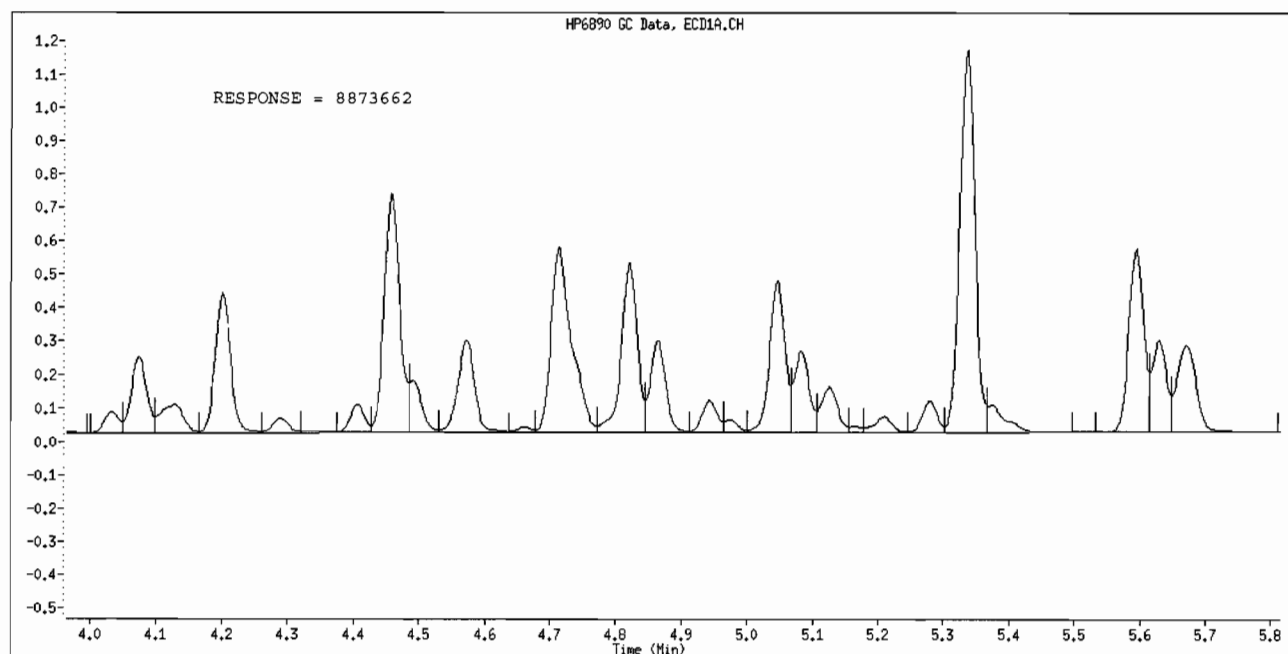
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: PCAL309.D

TestAmerica St. Louis

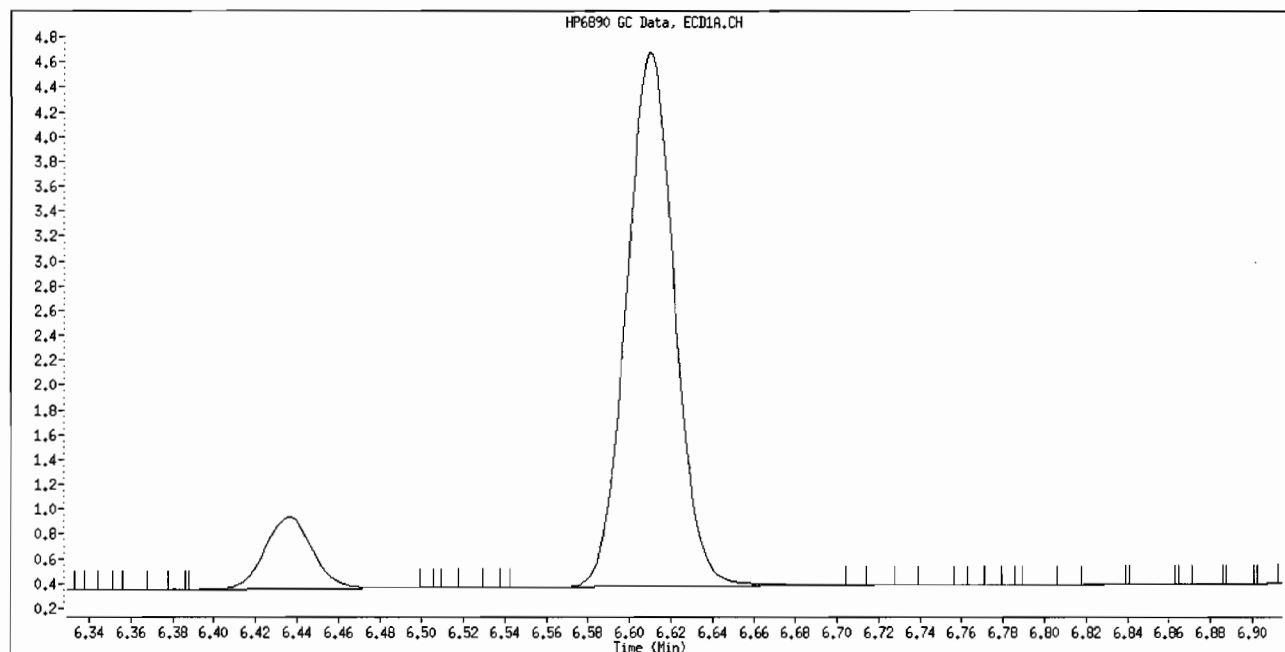
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

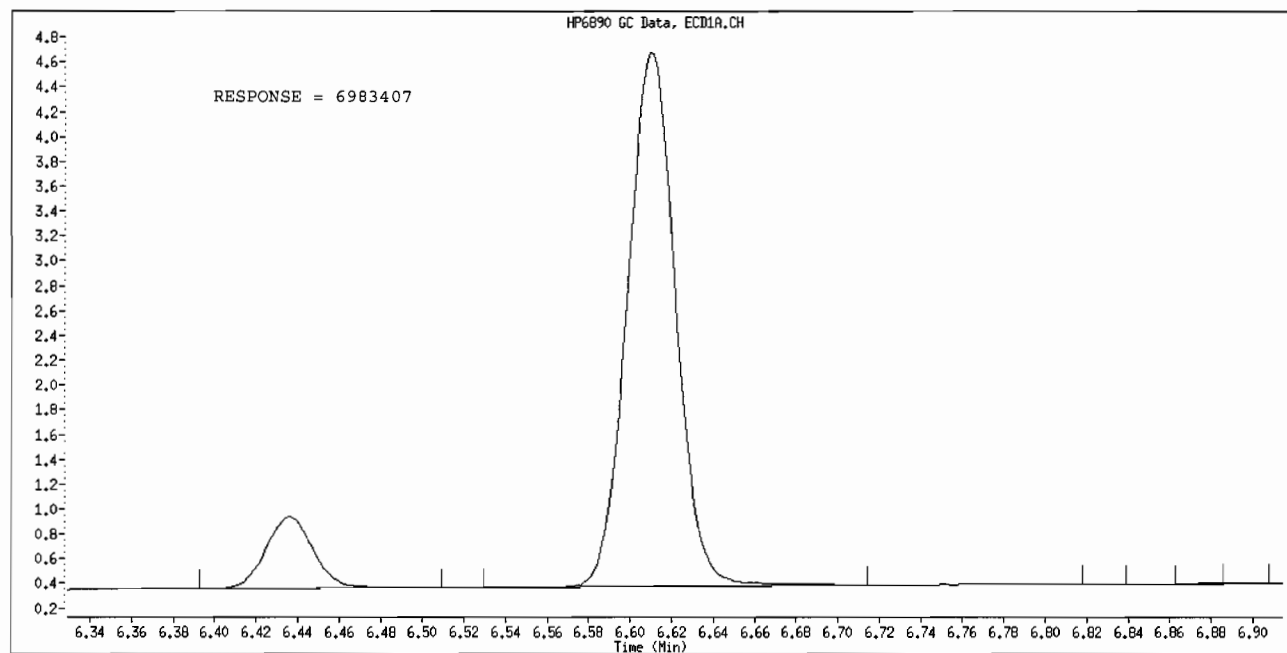
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL310.D  
 Report Date: 17-Apr-2010 10:20

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL310.D  
 Lab Smp Id: ICAL-6  
 Inj Date : 16-APR-2010 13:16  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-6  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	1.964	1.965	-0.001	4025859	1498.00	1418 80.00- 120.00	100.00 (M)
2.239	2.240	-0.001	7845088	1498.00	1394 156.12- 234.18	194.87	
2.624	2.624	0.000	16256648	1498.00	1403 341.43- 512.15	403.81	
2.737	2.739	-0.002	6734092	1498.00	1429 131.57- 197.35	167.27	
3.095	3.095	0.000	6947292	1498.00	1435 135.26- 202.89	172.57	
Average of Peak Amounts =			1415.80				

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.200	4.200	0.000	10037532	1498.00	1417 80.00- 120.00	100.00 (M)
4.457	4.457	0.000	17362595	1498.00	1412 139.30- 208.95	172.98	
4.712	4.712	0.000	17769347	1498.00	1444 141.13- 211.70	177.03	
5.334	5.335	-0.001	27540377	1498.00	1427 219.78- 329.67	274.37	
5.592	5.594	-0.002	13265284	1498.00	1454 104.32- 156.48	132.16	
Average of Peak Amounts =			1430.80				

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.609	6.609	0.000	10383013	75.0000	75.80	(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL310.D  
Report Date: 17-Apr-2010 10:20

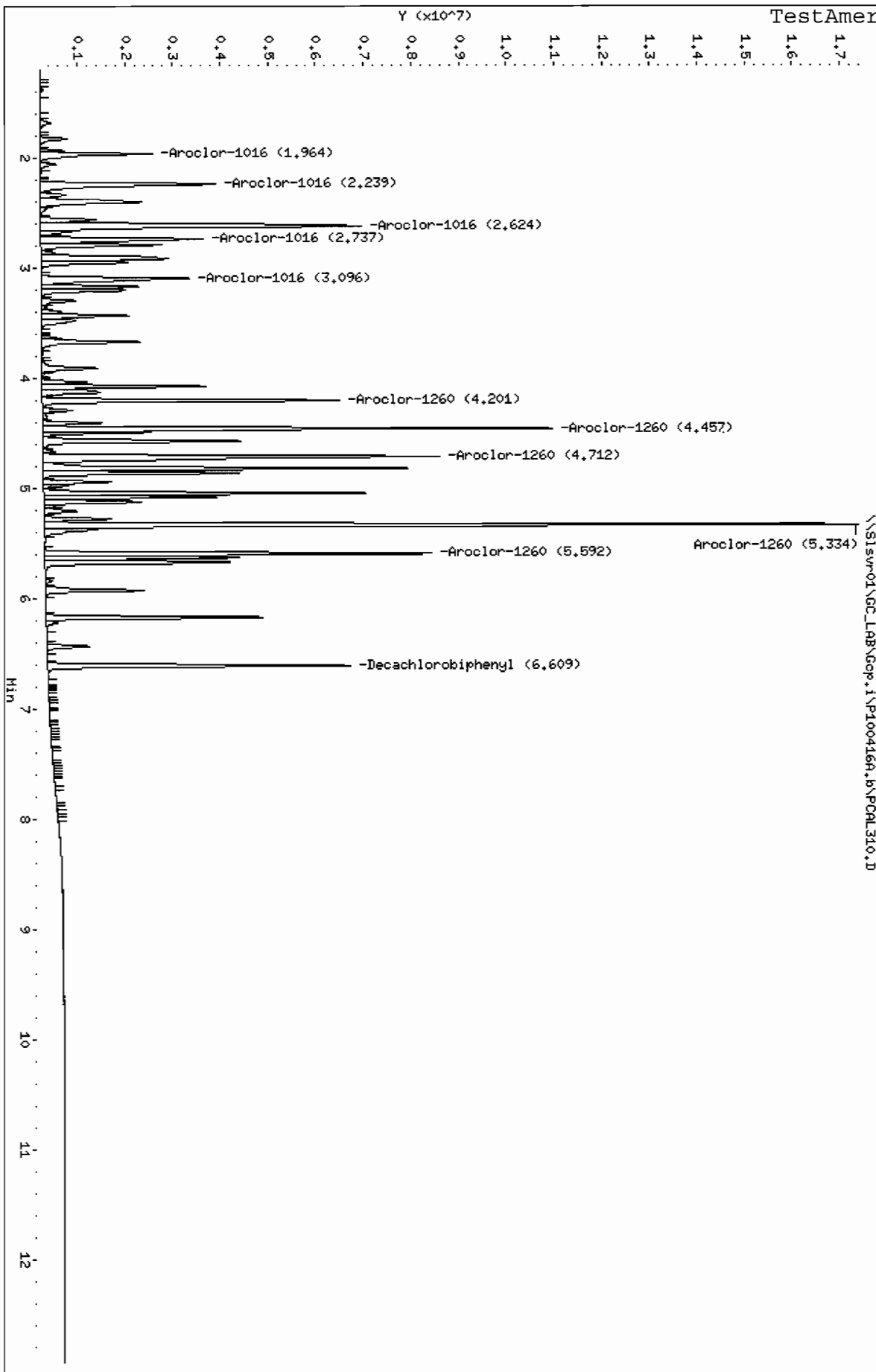
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gep.i\PI004166.b\PCAL310.D  
Date: 16-APR-2010 13:16  
Client ID:  
Sample Info: ICAL-6  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gep.i  
Operator: DEK  
Column diameter: 0.53



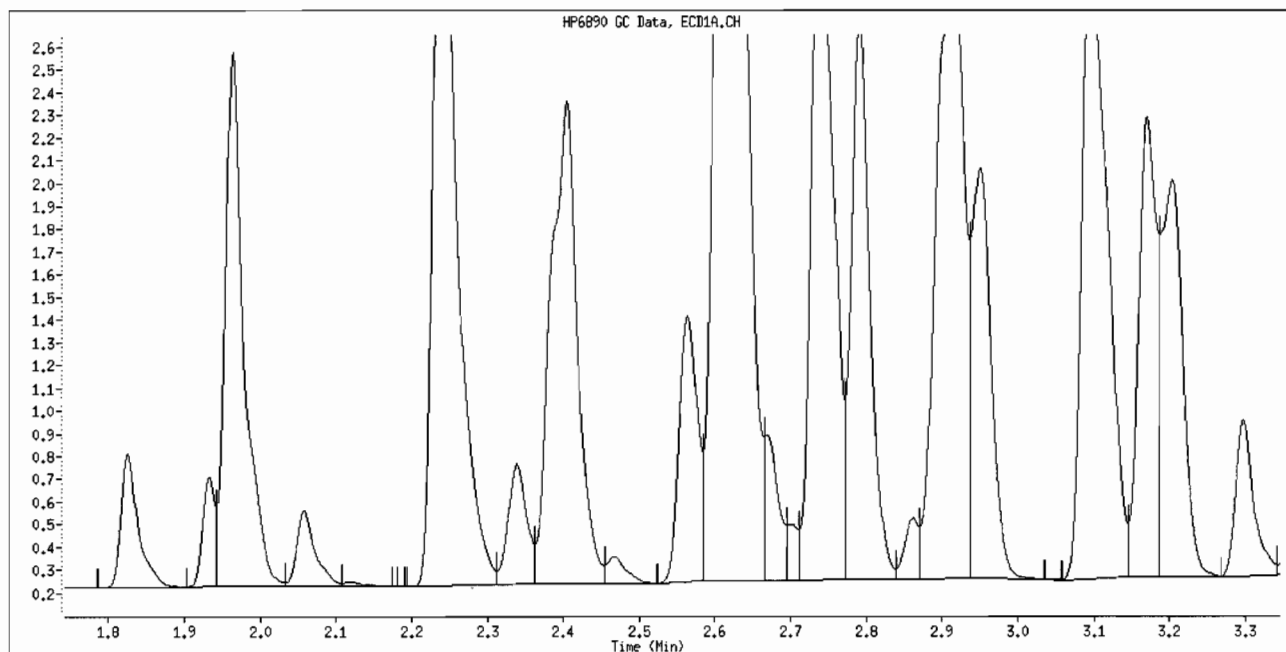
Inj. Date and Time: 16-APR-2010 13:16

Instrument ID: Gcp.i

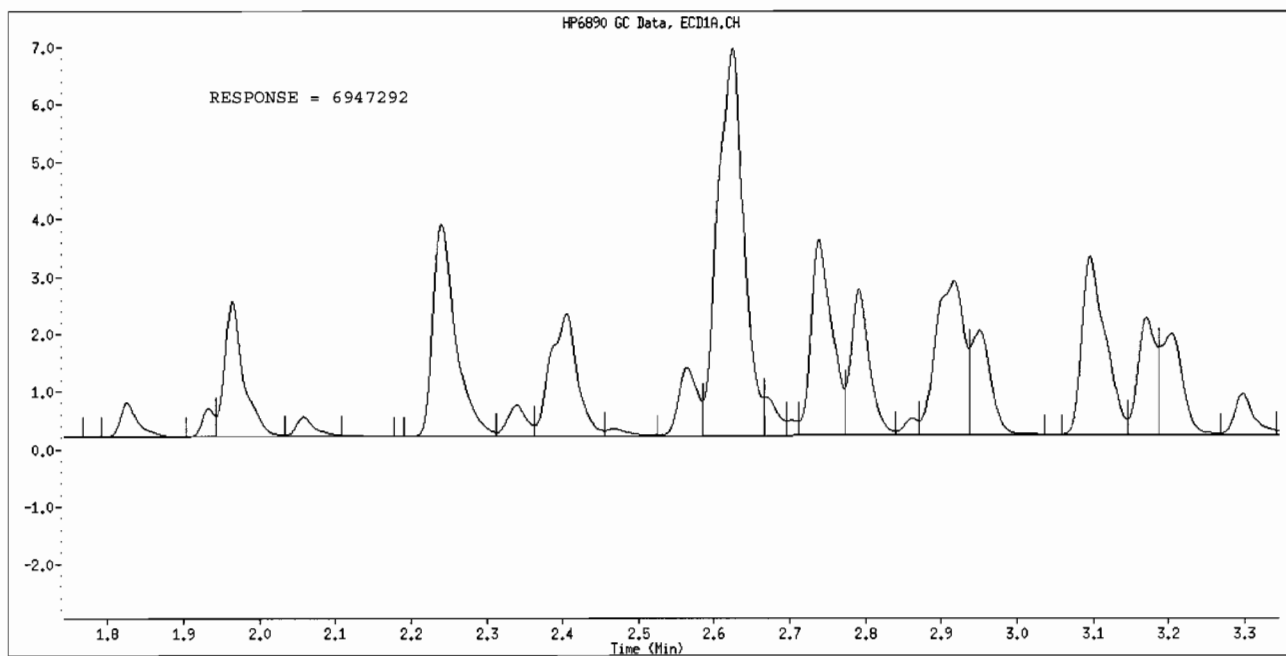
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

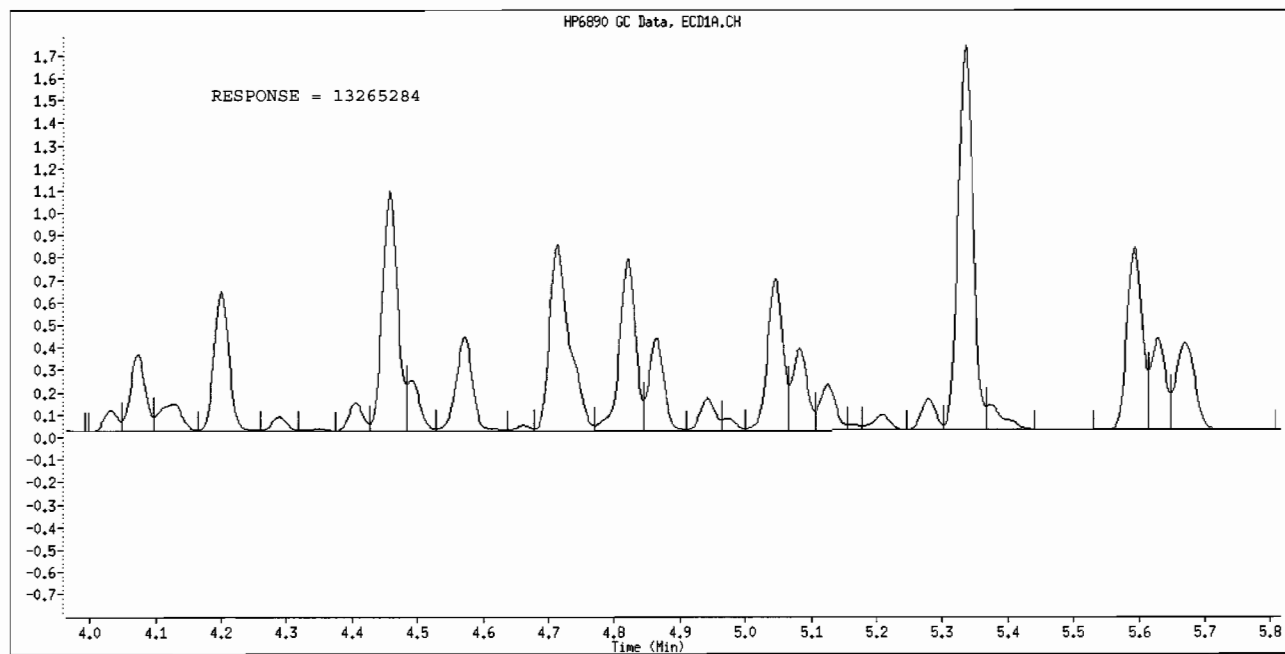
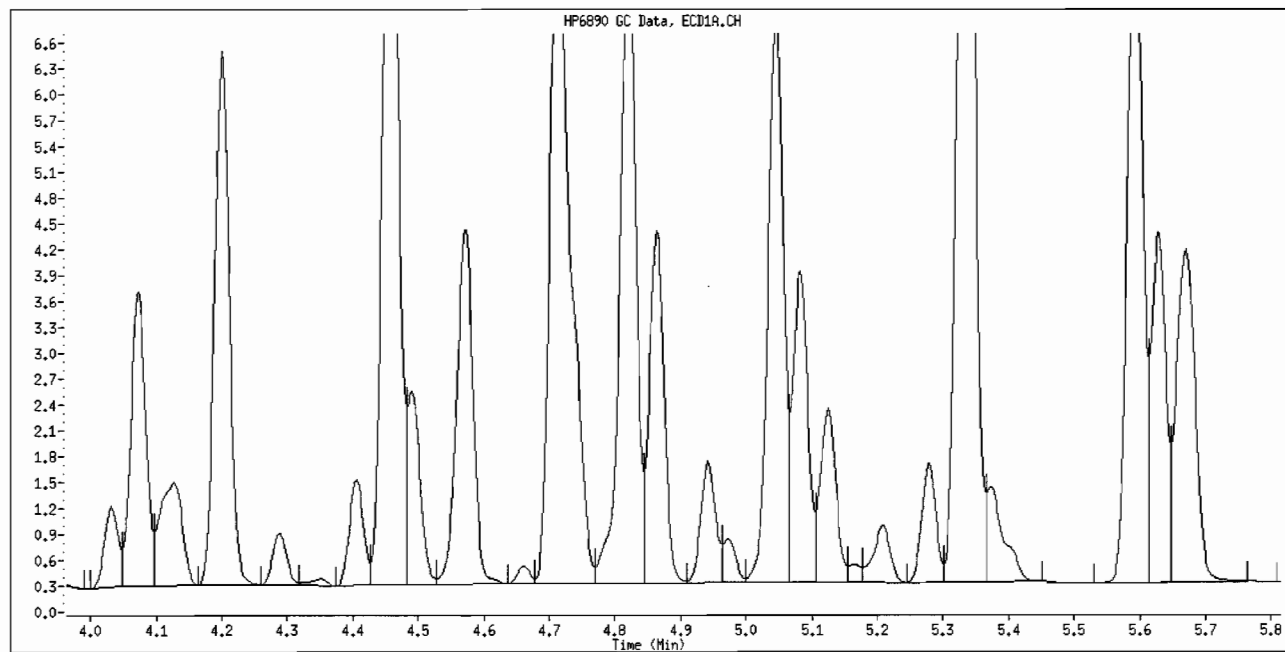
Inj. Date and Time: 16-APR-2010 13:16

Instrument ID: Gcp.i

Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL310.D

TestAmerica St. Louis

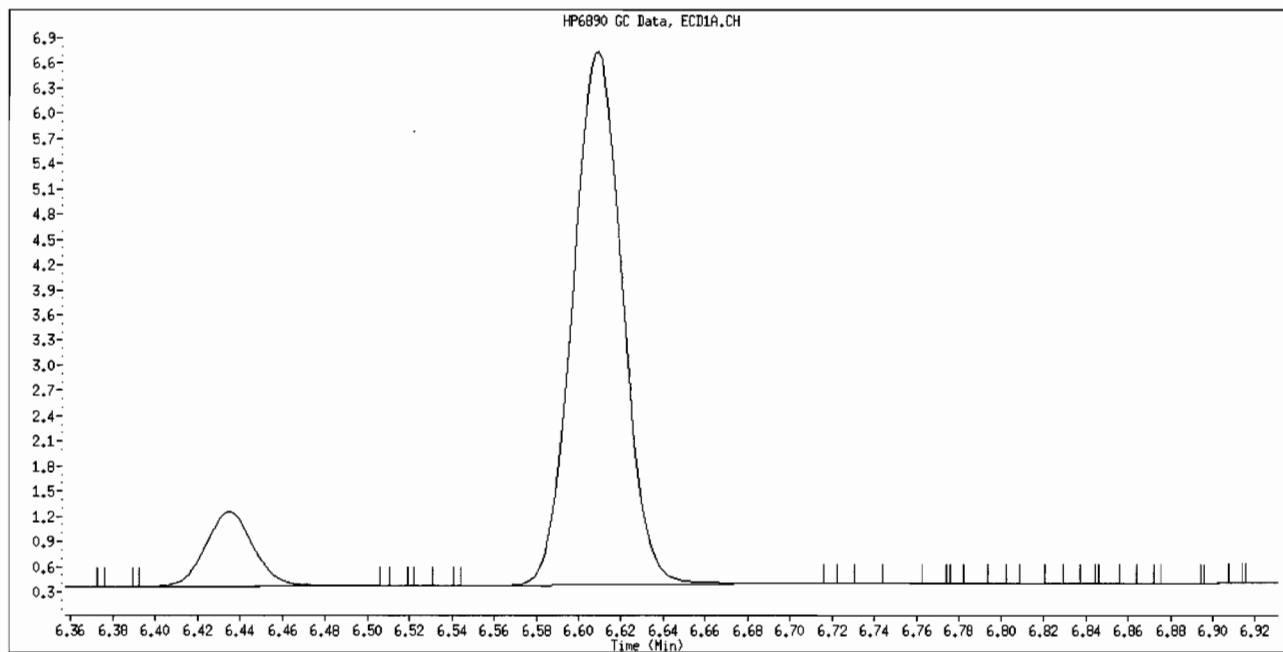
Inj. Date and Time: 16-APR-2010 13:16

Instrument ID: Gcp.i

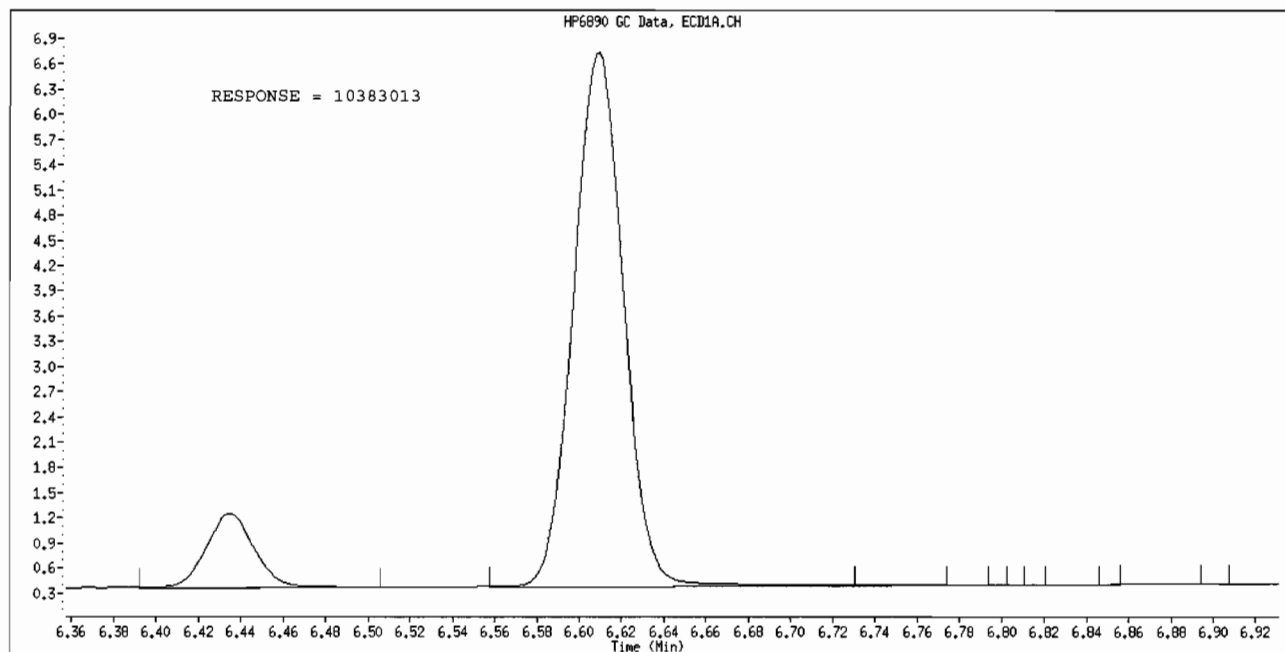
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL311.D  
 Report Date: 17-Apr-2010 10:20

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL311.D  
 Lab Smp Id: ICAL-7  
 Inj Date : 16-APR-2010 13:35  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-7  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
1.963	1.965	-0.002	6192413 2500.00	2181 80.00-	120.00	100.00 (M)
2.240	2.240	0.000	12237878 2500.00	2174 156.12-	234.18	197.63
2.623	2.624	-0.001	25069340 2500.00	2163 341.43-	512.15	404.84
2.737	2.739	-0.002	10468652 2500.00	2221 131.57-	197.35	169.06
3.093	3.095	-0.002	10944832 2500.00	2261 135.26-	202.89	176.75
Average of Peak Amounts =			2200.00			

28 Aroclor-1260			CAS #: 11096-82-5			
4.198	4.200	-0.002	15851826 2500.00	2238 80.00-	120.00	100.00 (M)
4.457	4.457	0.000	27319672 2500.00	2222 139.30-	208.95	172.34
4.712	4.712	0.000	28186883 2500.00	2291 141.13-	211.70	177.81
5.335	5.335	0.000	44050200 2500.00	2282 219.78-	329.67	277.89
5.592	5.594	-0.002	21188380 2500.00	2322 104.32-	156.48	133.67
Average of Peak Amounts =			2271.00			

\$ 32 Decachlorobiphenyl			CAS #:			
6.608	6.609	-0.001	16717979 150.000	122.0		(M)



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL311.D  
Report Date: 17-Apr-2010 10:20

TestAmerica St. Louis

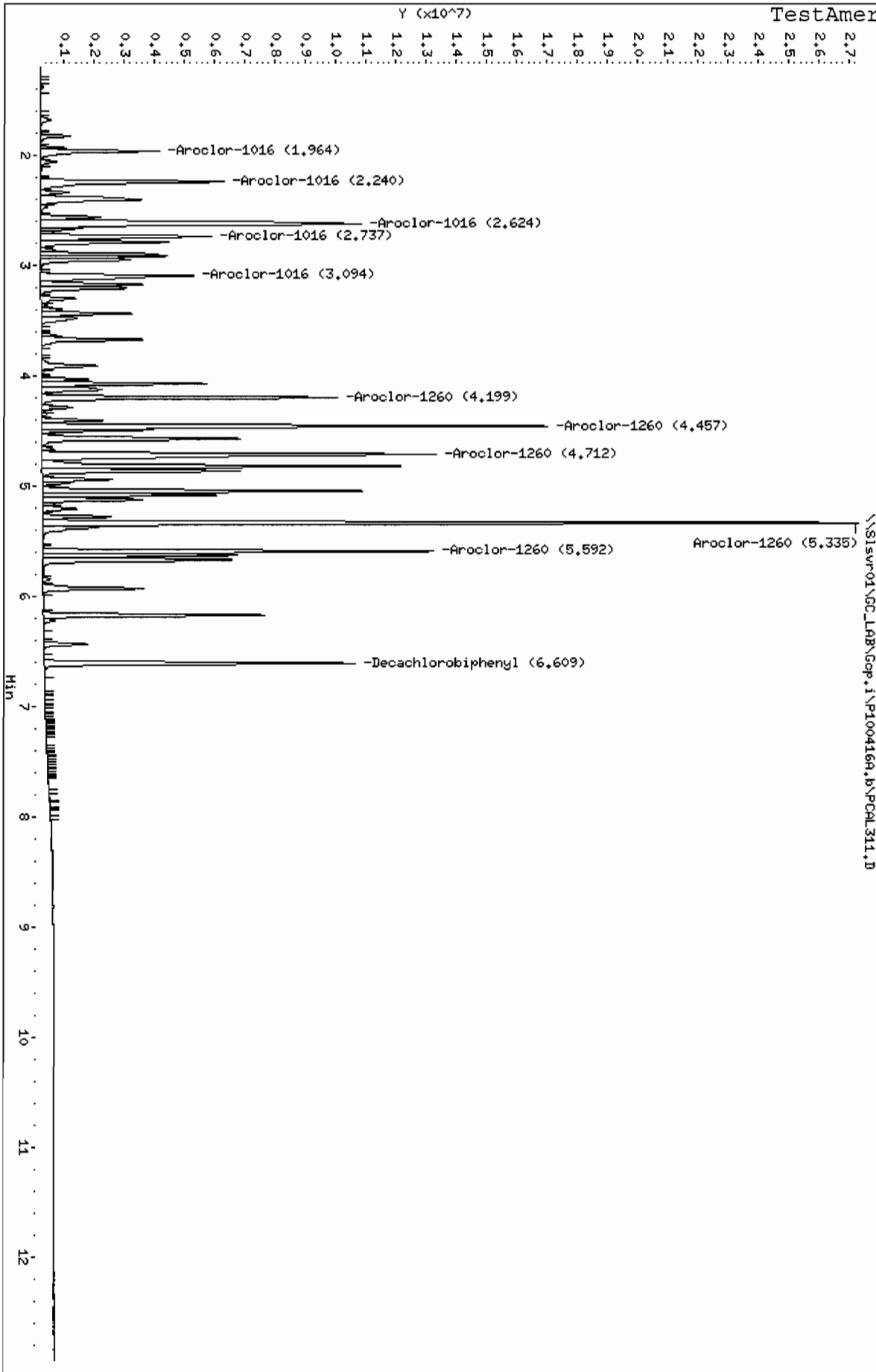
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp.i\PI00416A.b\PCAL311.D  
 Date: 16-APR-2010 13:35  
 Client ID:  
 Sample Info: ICAL-7  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



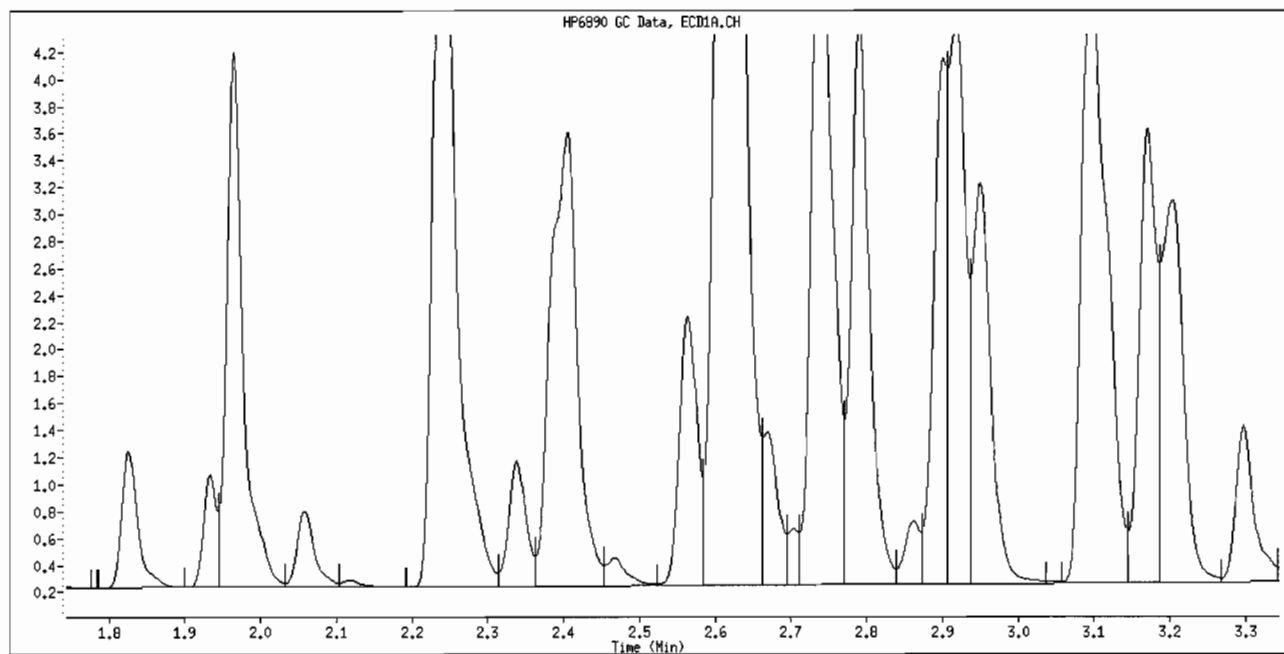
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

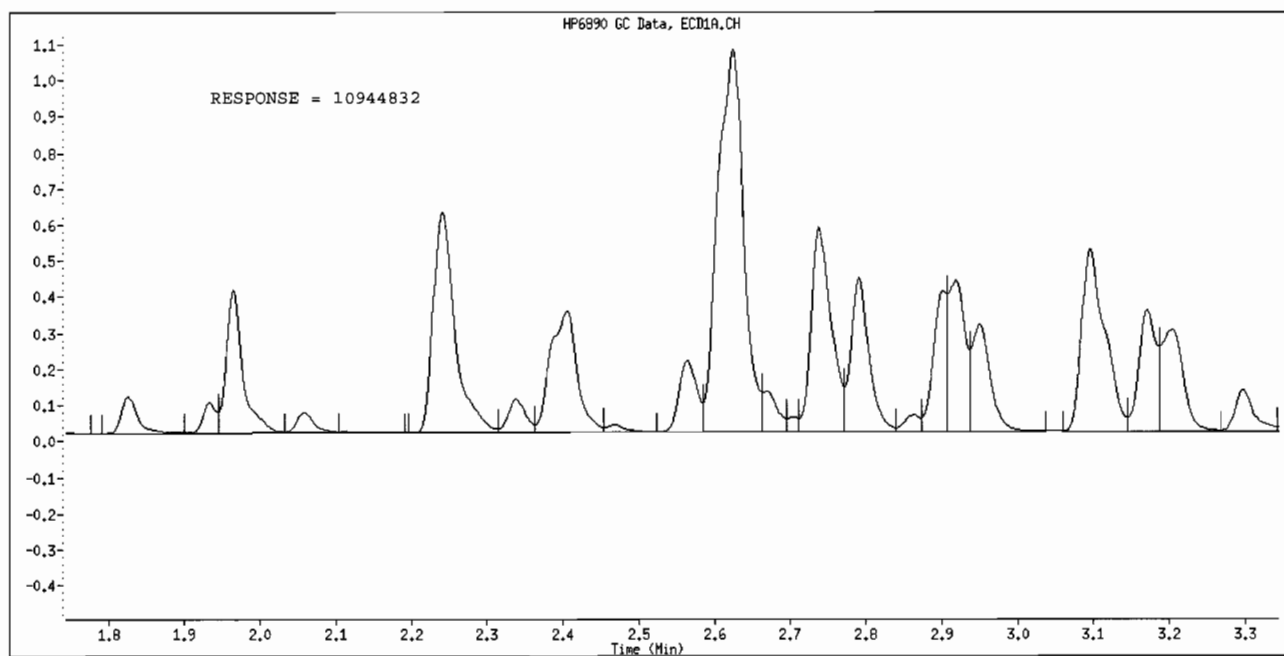
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

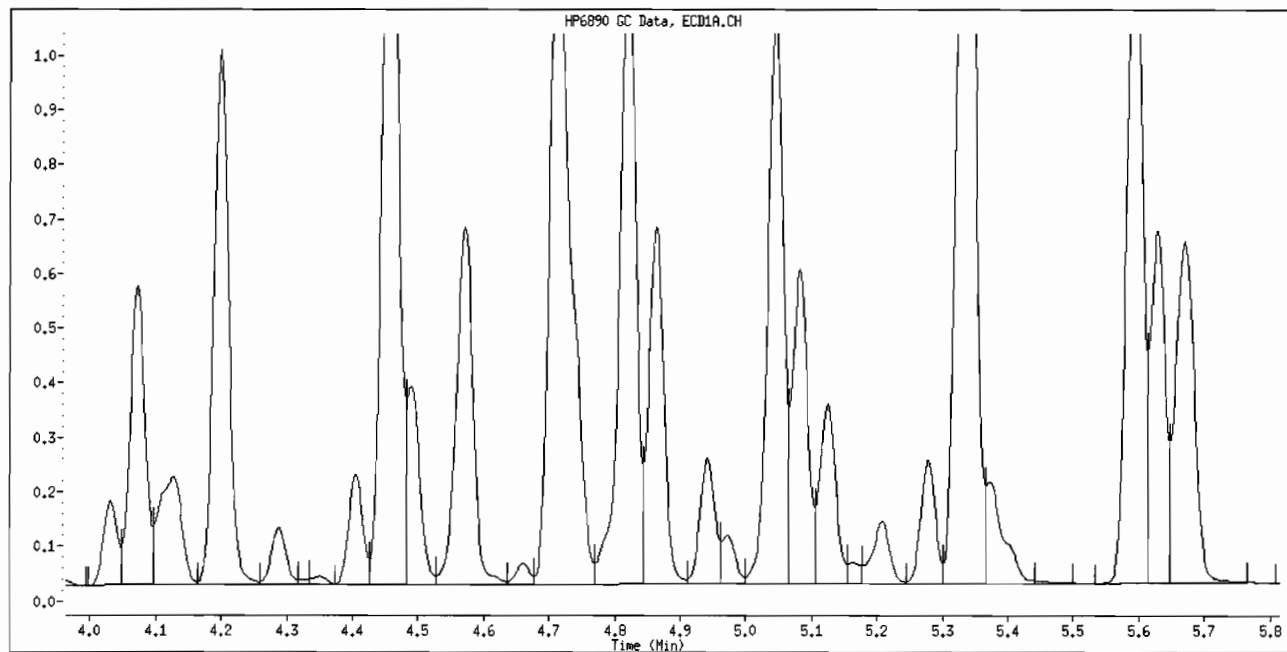
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

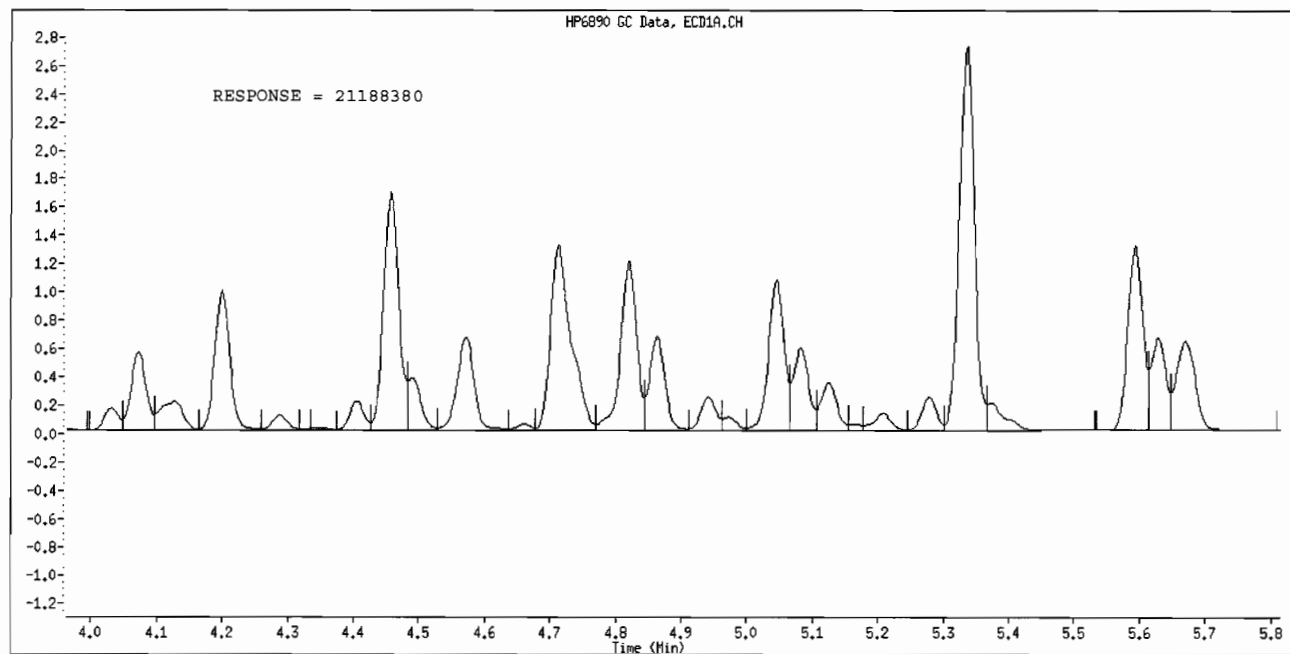
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL311.D

TestAmerica St. Louis

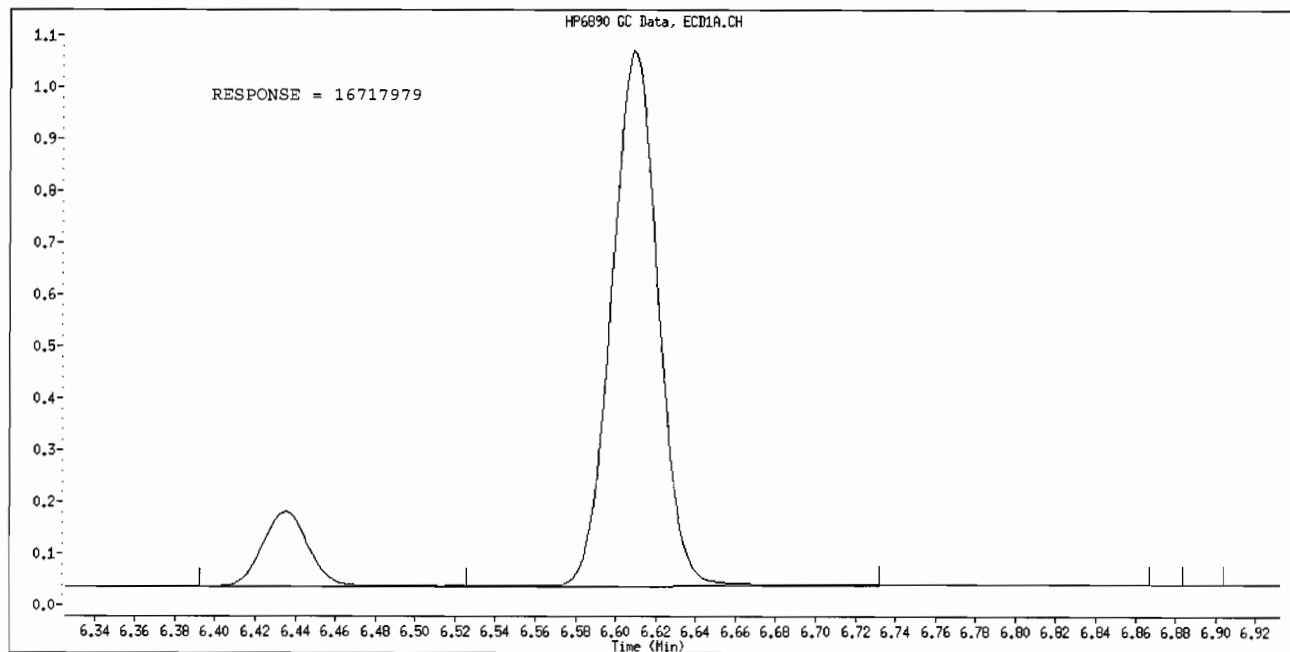
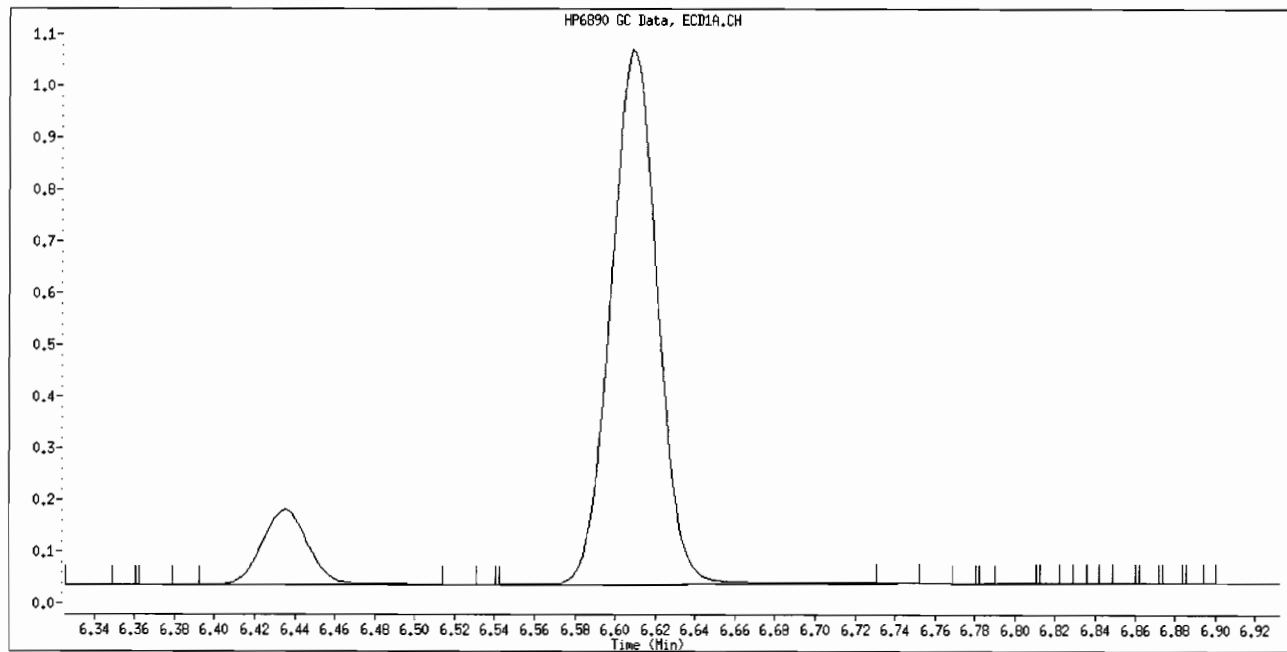
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL312.D  
 Report Date: 17-Apr-2010 10:20

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL312.D  
 Lab Smp Id: ICAL-8  
 Inj Date : 16-APR-2010 13:54  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-8  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:19 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 10 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
1.965	1.965	0.000	9923705 4000.00	3496	80.00- 120.00	100.00 (M)
2.241	2.240	0.001	19327986 4000.00	3433	156.12- 234.18	194.77
2.625	2.624	0.001	40526762 4000.00	3497	341.43- 512.15	408.38
2.738	2.739	-0.001	17070074 4000.00	3622	131.57- 197.35	172.01
3.095	3.095	0.000	17783642 4000.00	3674	135.26- 202.89	179.20
Average of Peak Amounts =			3544.40			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28						
Aroclor-1260			CAS #: 11096-82-5			
4.200	4.200	0.000	25287372 4000.00	3569	80.00- 120.00	100.00 (M)
4.456	4.457	-0.001	43879123 4000.00	3569	139.30- 208.95	173.52
4.713	4.712	0.001	45176451 4000.00	3672	141.13- 211.70	178.65
5.335	5.335	0.000	70493346 4000.00	3652	219.78- 329.67	278.77
5.593	5.594	-0.001	33612006 4000.00	3684	104.32- 156.48	132.92
Average of Peak Amounts =			3629.20			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
32						
Decachlorobiphenyl			CAS #:			
6.608	6.609	-0.001	26371570 200.000	192.5		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL312.D  
Report Date: 17-Apr-2010 10:20

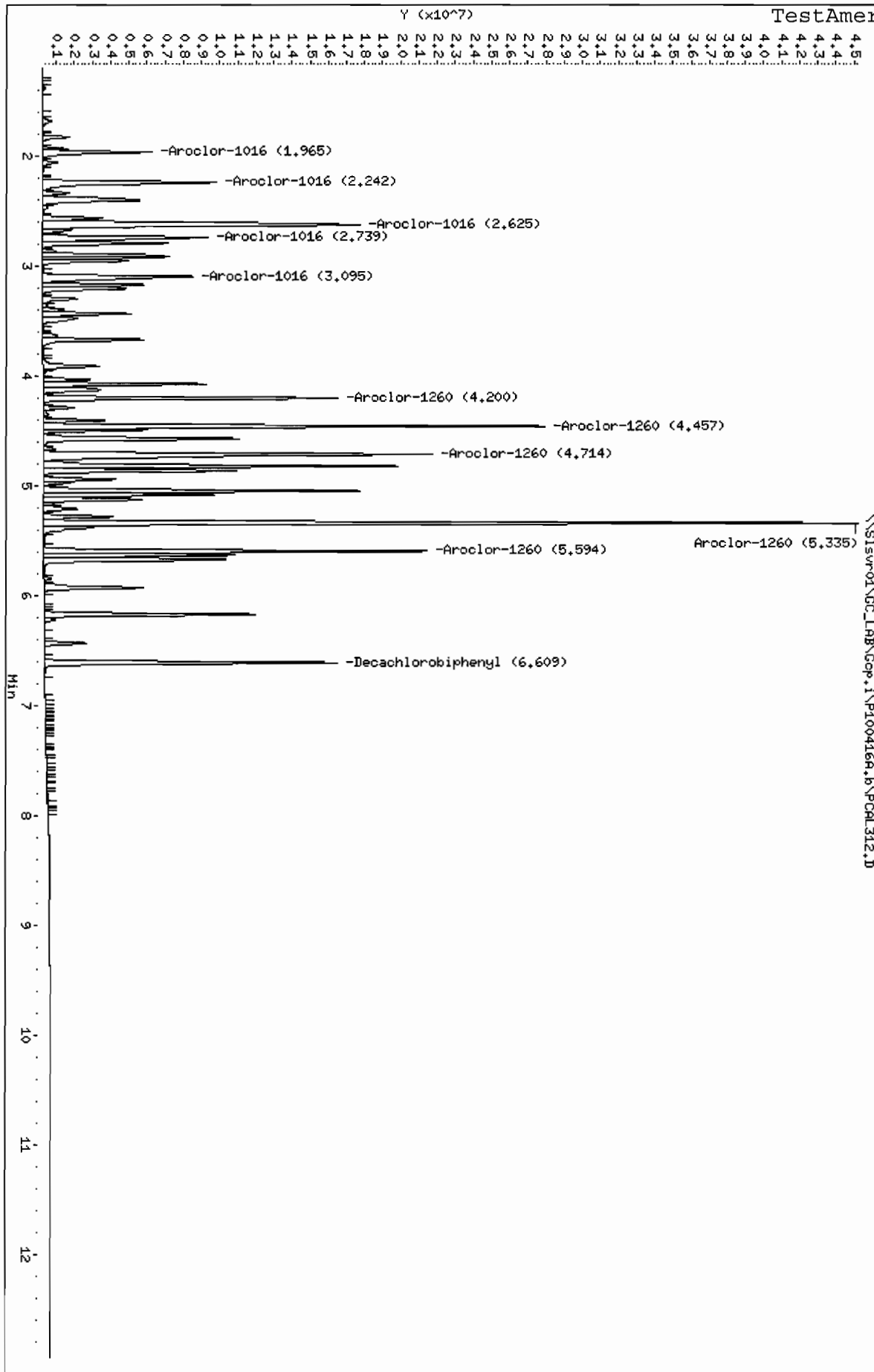
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\Sisvr01\GC\_LAB\Gcp.i\PI00416a.b\PCAL312.D  
 Date: 16-APR-2010 13:54  
 Client ID:  
 Sample Info: ICAL-8  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53





Data File Name: PCAL312.D

TestAmerica St. Louis

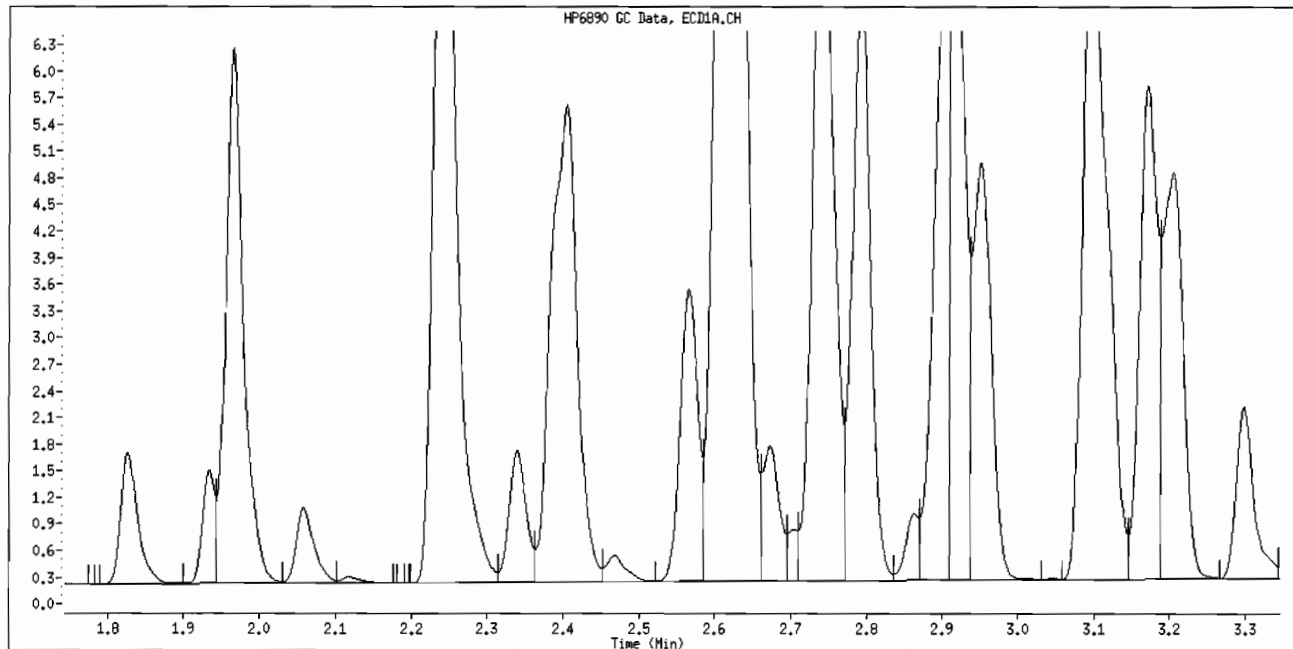
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

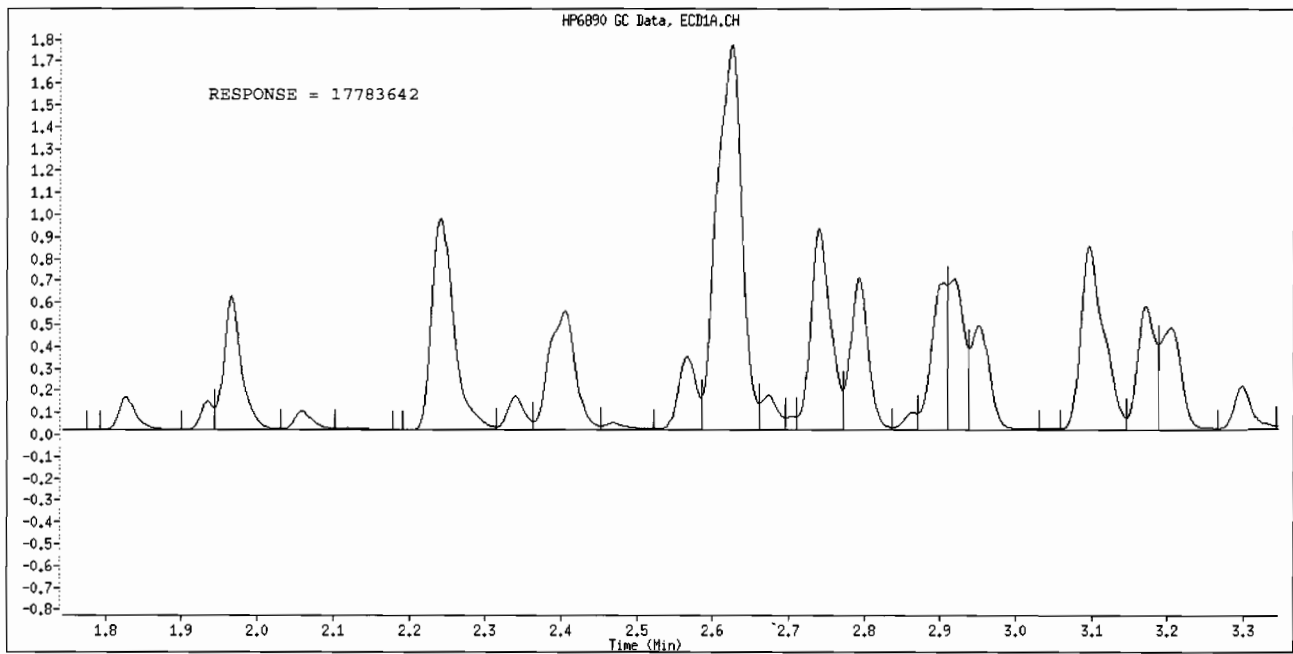
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL312.D

TestAmerica St. Louis

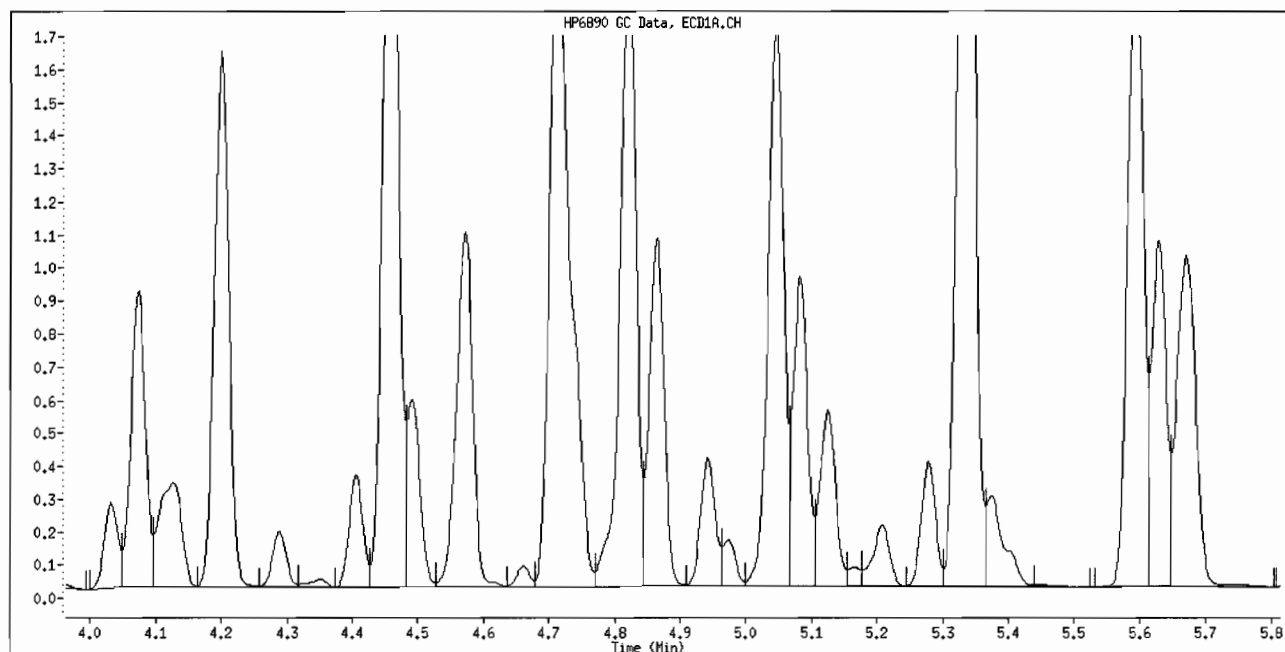
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

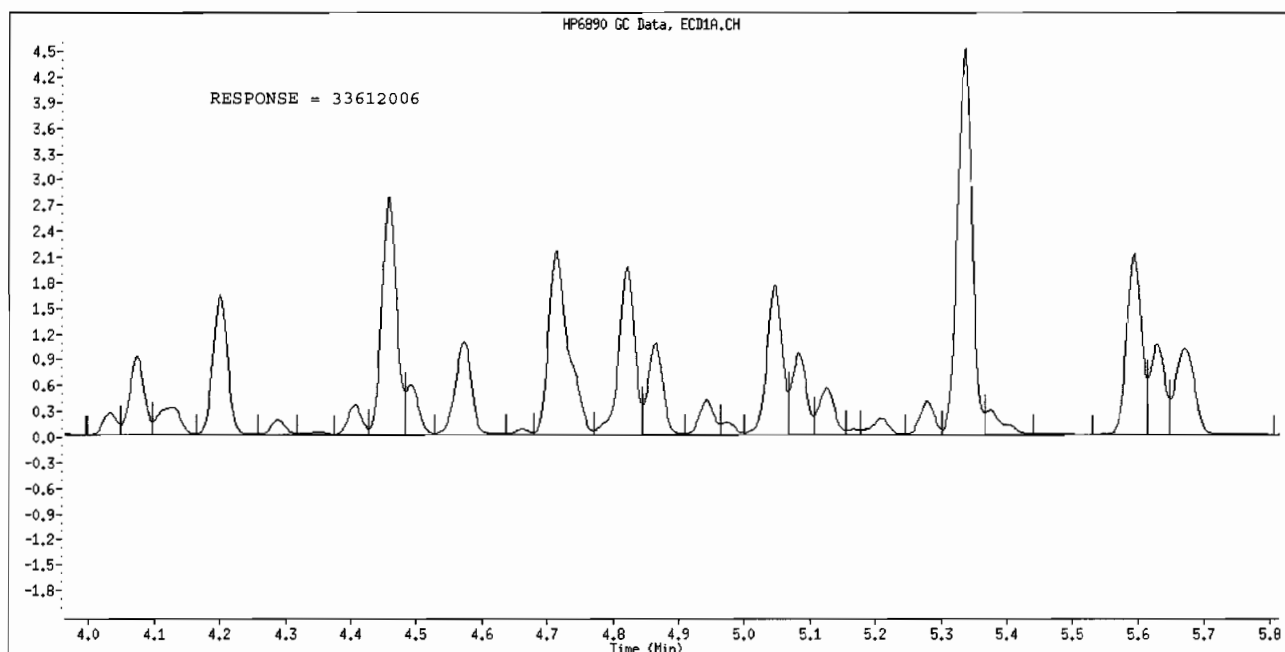
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL312.D

TestAmerica St. Louis

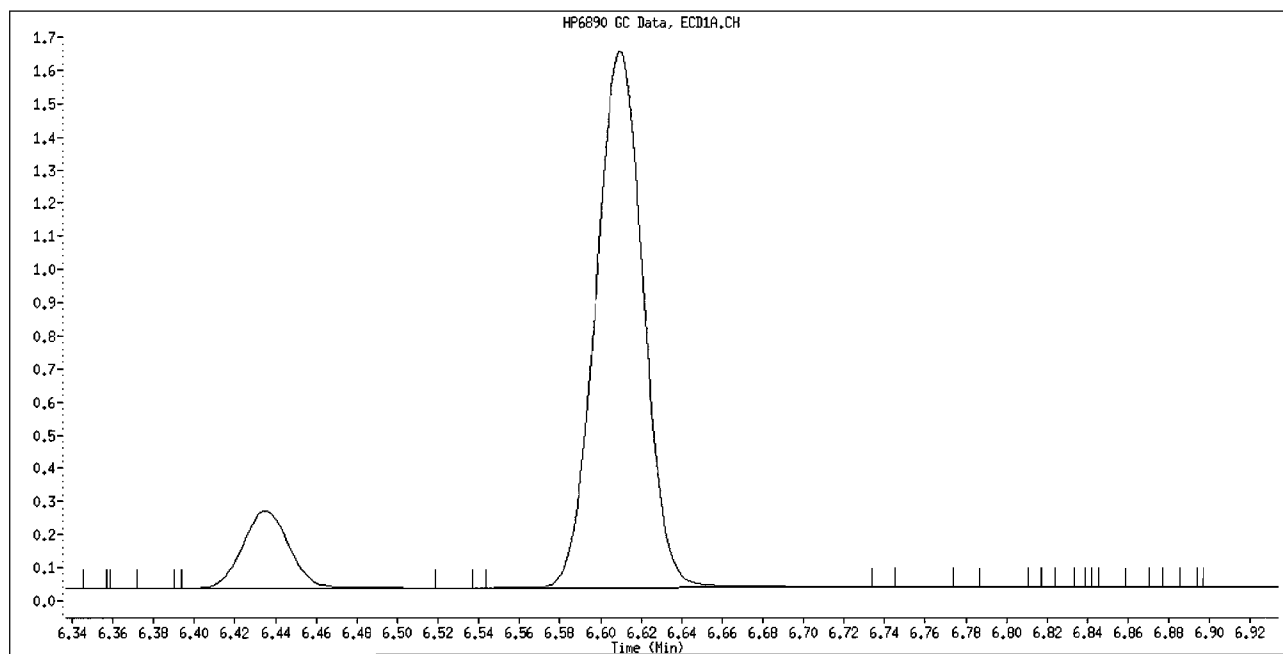
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

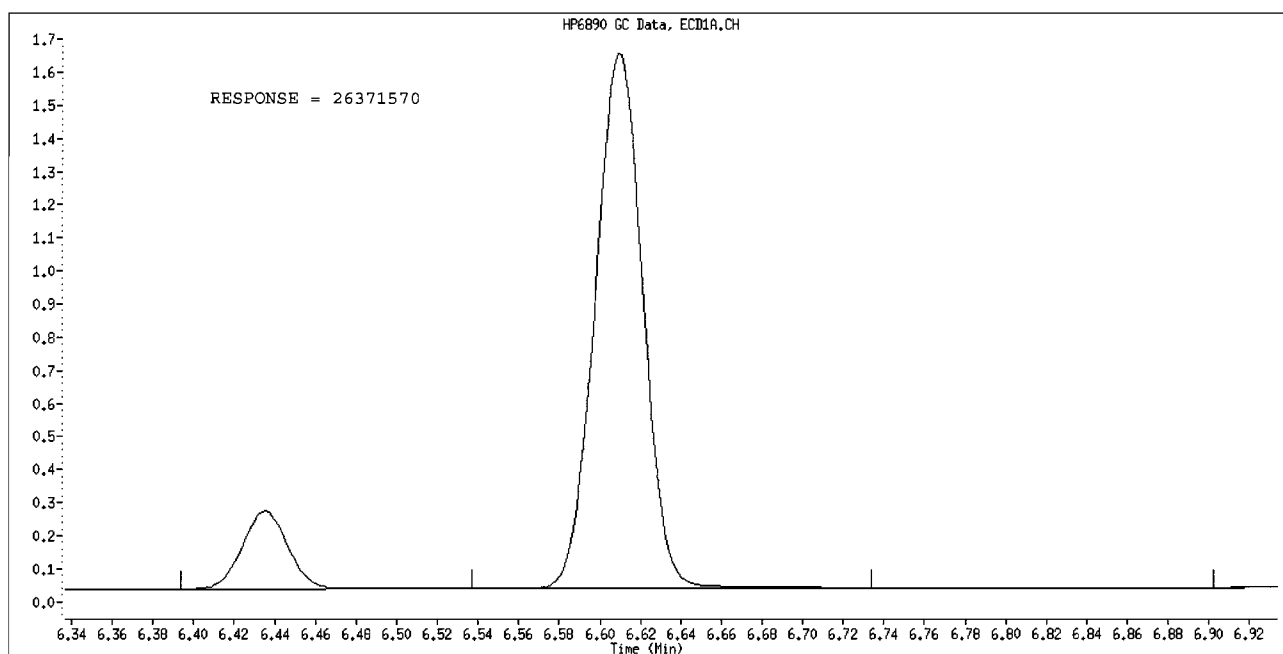
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL314.D  
 Report Date: 17-Apr-2010 10:27

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL314.D  
 Lab Smp Id: 1232  
 Inj Date : 16-APR-2010 14:32  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1232  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 14:32 Cal File: PCAL314.D  
 Als bottle: 12 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1232.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

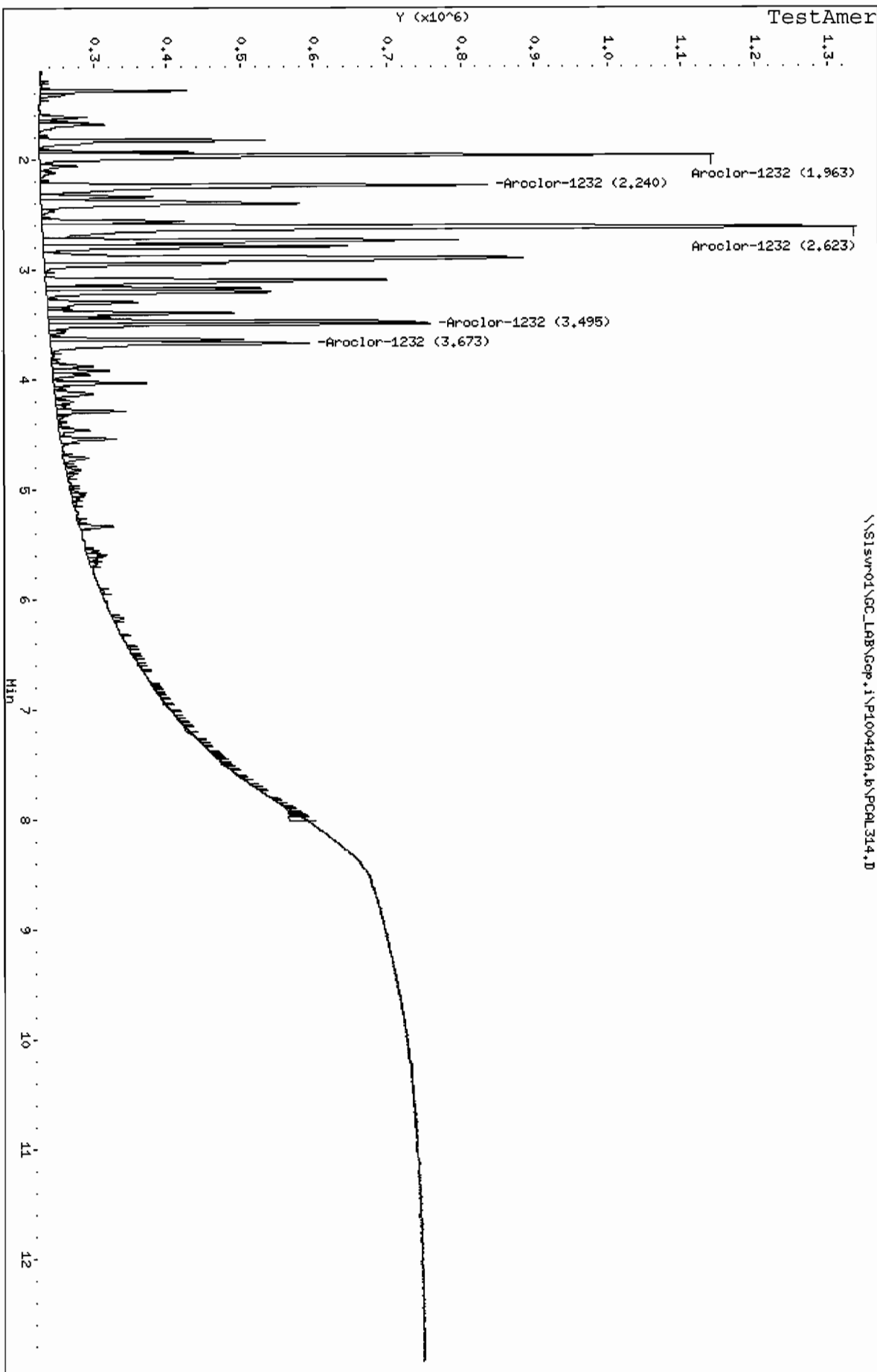
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
24	Aroclor-1232				CAS #: 1114-16-5	
1.963	1.963	0.000	1516726 500.000	500.0	80.00- 120.00	100.00 (M)
2.240	2.240	0.000	1317604 500.000	500.0	69.50- 104.25	86.87
2.623	2.623	0.000	2784010 500.000	500.0	146.84- 220.26	183.55
3.495	3.495	0.000	847196 500.000	500.0	44.69- 67.03	55.86
3.673	3.673	0.000	702383 500.000	500.0	37.05- 55.57	46.31
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\CC\_LAB\Gcp.i\P100416A.b\PCAL314.D  
 Date: 16-APR-2010 14:32  
 Client ID:  
 Sample Info: 1232  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PCAL314.D

TestAmerica St. Louis

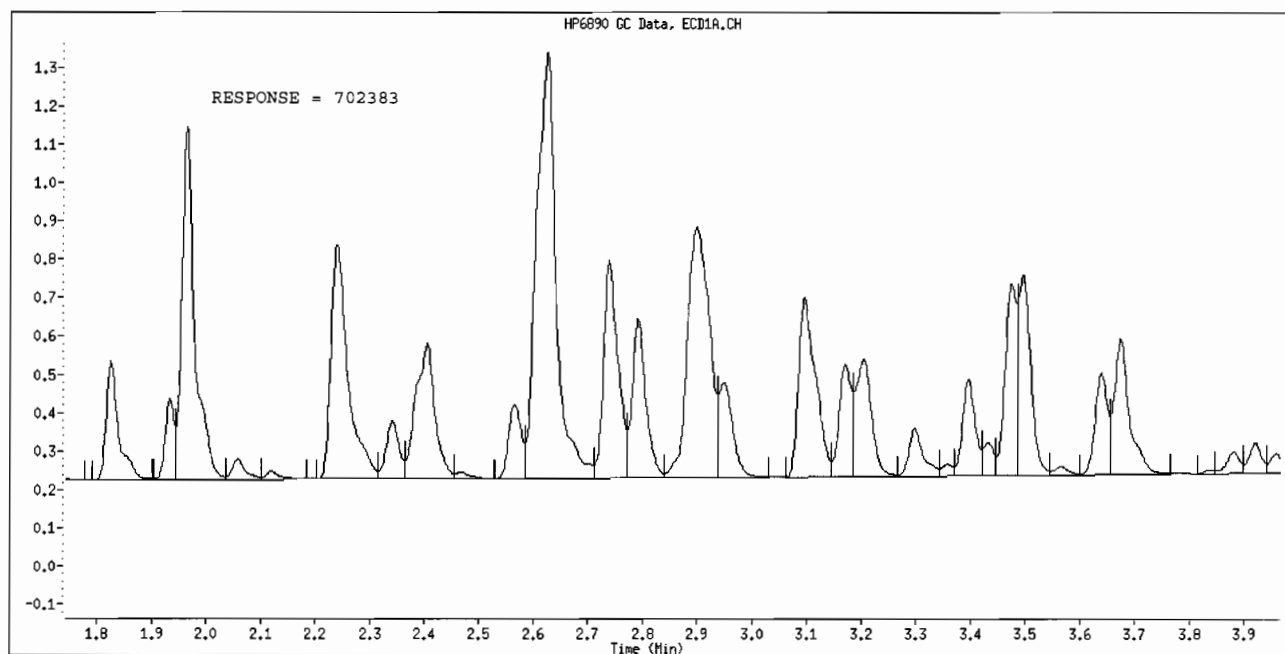
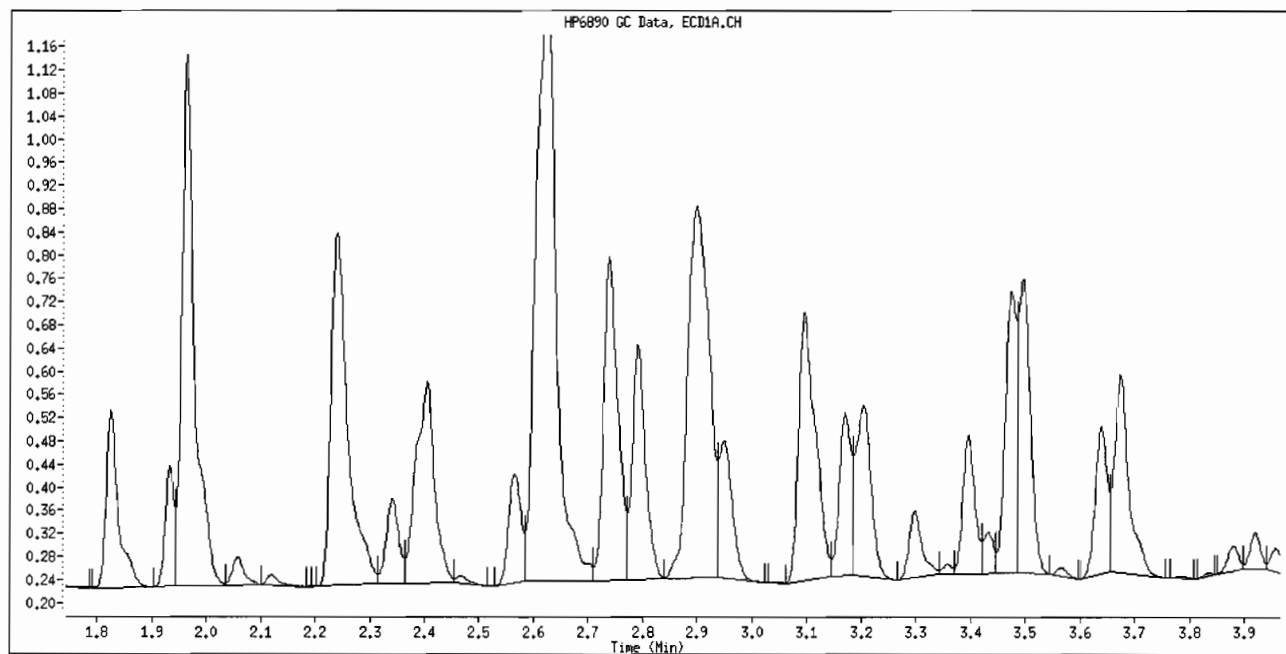
Inj. Date and Time: 16-APR-2010 14:32

Instrument ID: Gcp.i

Client ID:

Compound Name: Aroclor-1232

CAS #: 1114-16-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL315.D  
 Report Date: 17-Apr-2010 10:27

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL315.D  
 Lab Smp Id: 1242  
 Inj Date : 16-APR-2010 14:50  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1242  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 14:50 Cal File: PCAL315.D  
 Als bottle: 13 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1242.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

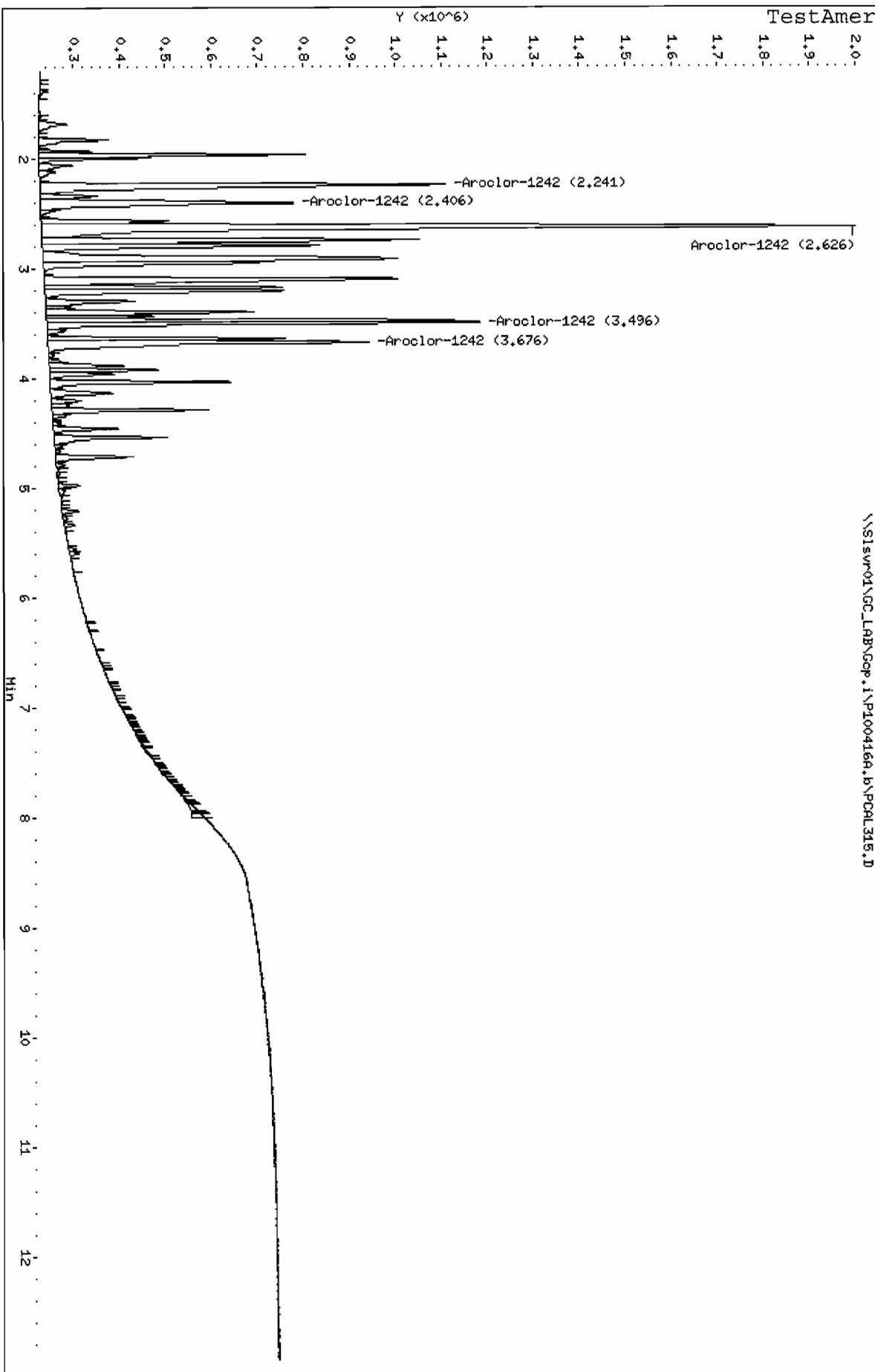
AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	
25 Aroclor-1242				CAS #: 53469-21-9			
2.240	2.240	0.000	2170313 500.000	500.0	80.00- 120.00	100.00 (M)	
2.405	2.405	0.000	1436157 500.000	500.0	52.94- 79.41	66.17	
2.625	2.625	0.000	4794965 500.000	500.0	176.75- 265.12	220.93	
3.495	3.495	0.000	1768623 500.000	500.0	65.19- 97.79	81.49	
3.675	3.675	0.000	1611718 500.000	500.0	59.41- 89.11	74.26	
Average of Peak Amounts =				500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gep.i\PI004166.b\PCAL315.D  
 Date: 16-APR-2010 14:50  
 Client ID:  
 Sample Info: 1242  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gep.i  
 Operator: DEK  
 Column diameter: 0.53





Data File Name: PCAL315.D

TestAmerica St. Louis

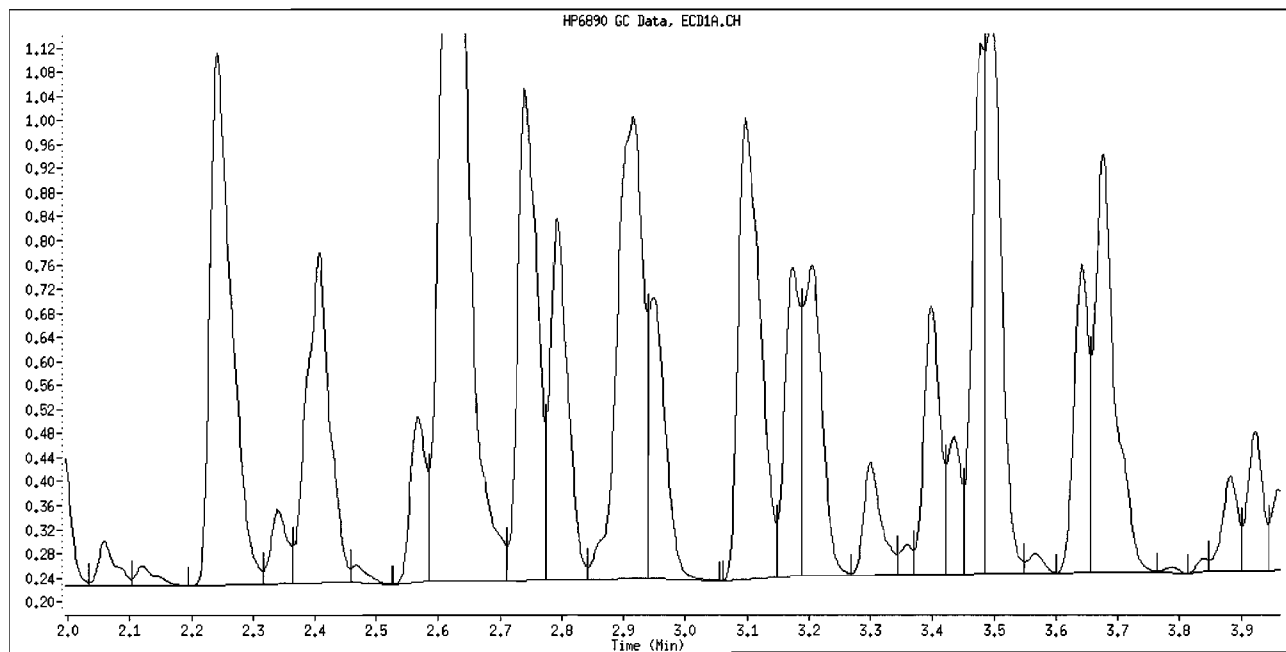
Inj. Date and Time: 16-APR-2010 14:50

Instrument ID: Gcp.i

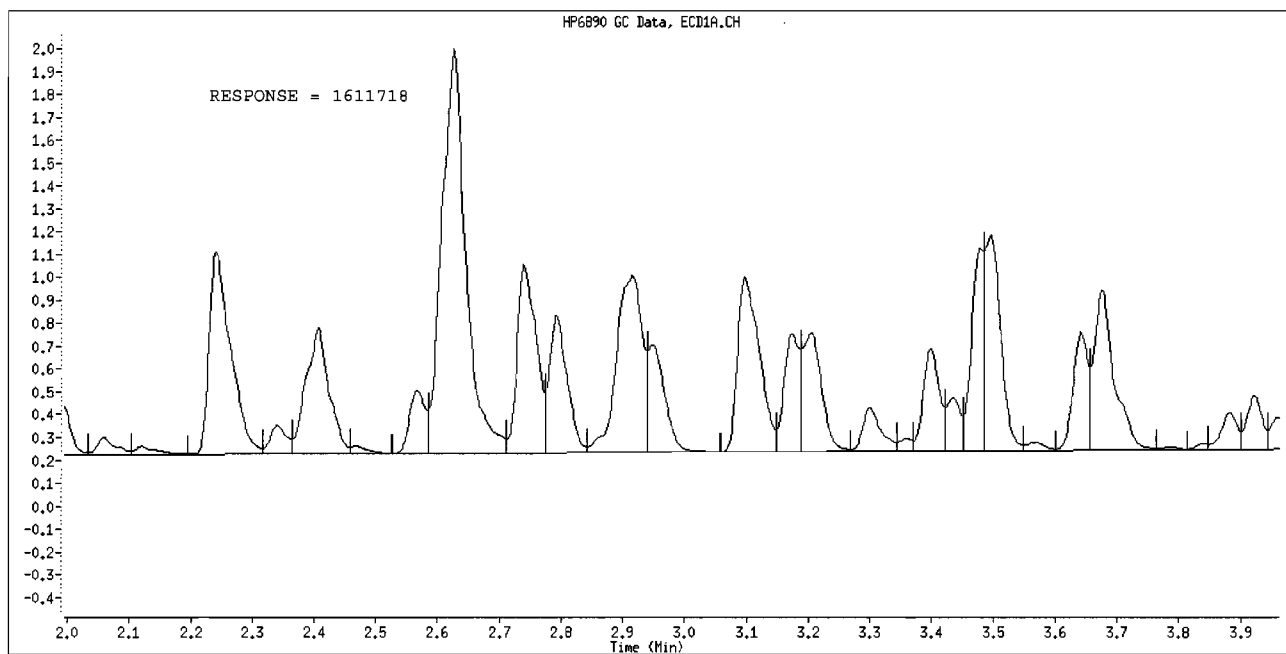
Client ID:

Compound Name: Aroclor-1242

CAS #: 53469-21-9



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL316.D  
 Report Date: 17-Apr-2010 10:27

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL316.D  
 Lab Smp Id: 1248  
 Inj Date : 16-APR-2010 15:09  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1248  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 15:09 Cal File: PCAL316.D  
 Als bottle: 14 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1248.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

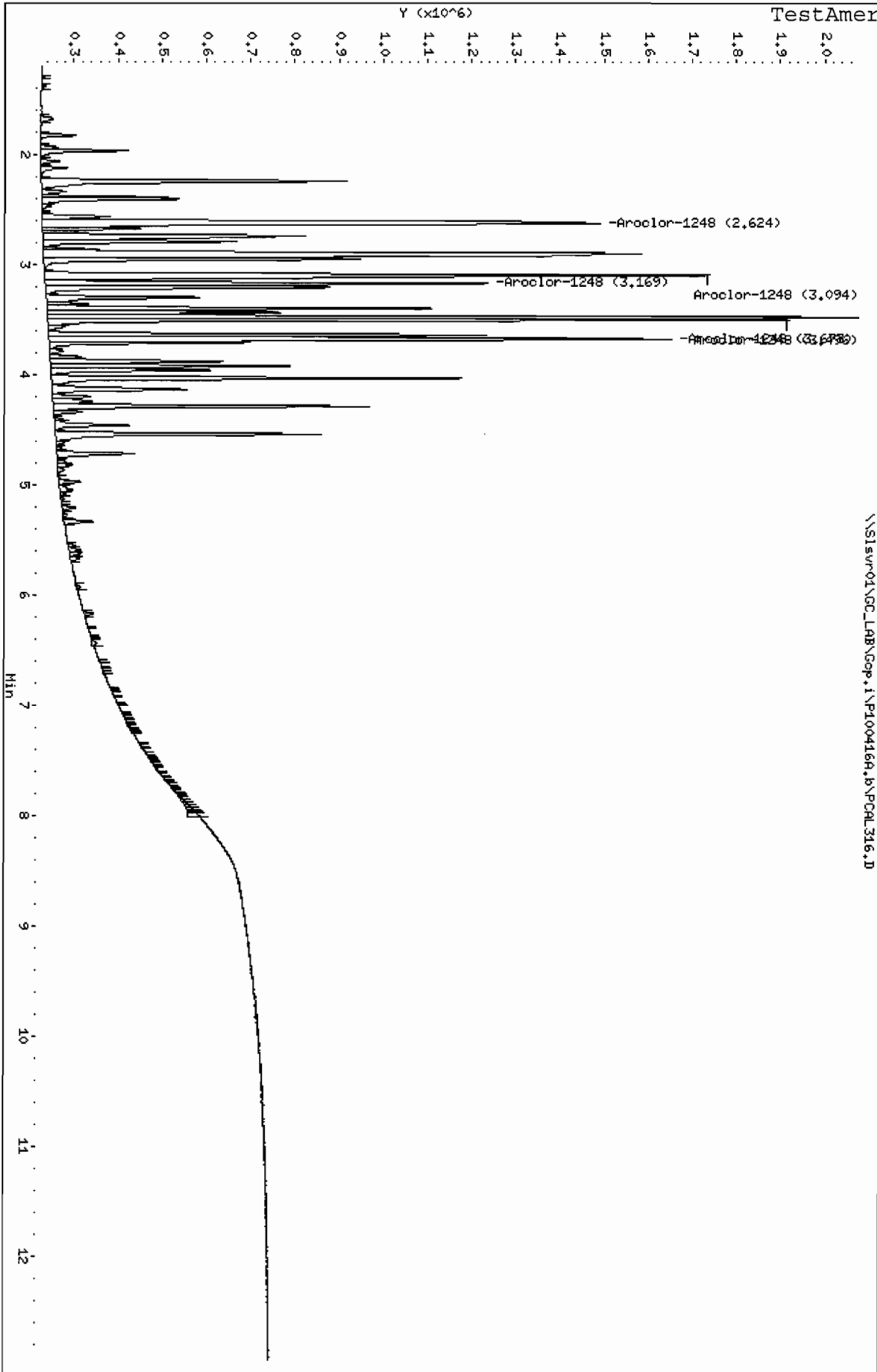
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
26	2.624	0.000	3038665	500.0	80.00- 120.00	100.00 (M)
3.094	3.094	0.000	3033318	500.0	79.86- 119.79	99.82
3.169	3.169	0.000	1701922	500.0	44.81- 67.21	56.01
3.495	3.495	0.000	2603829	500.0	68.55- 102.83	85.69
3.672	3.672	0.000	2366025	500.0	62.29- 93.44	77.86
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gcp.1\PI00416A.b\PCAL316.D  
 Date : 16-APR-2010 15:09  
 Client ID:  
 Sample Info: 1248  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.1  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PCAL316.D

TestAmerica St. Louis

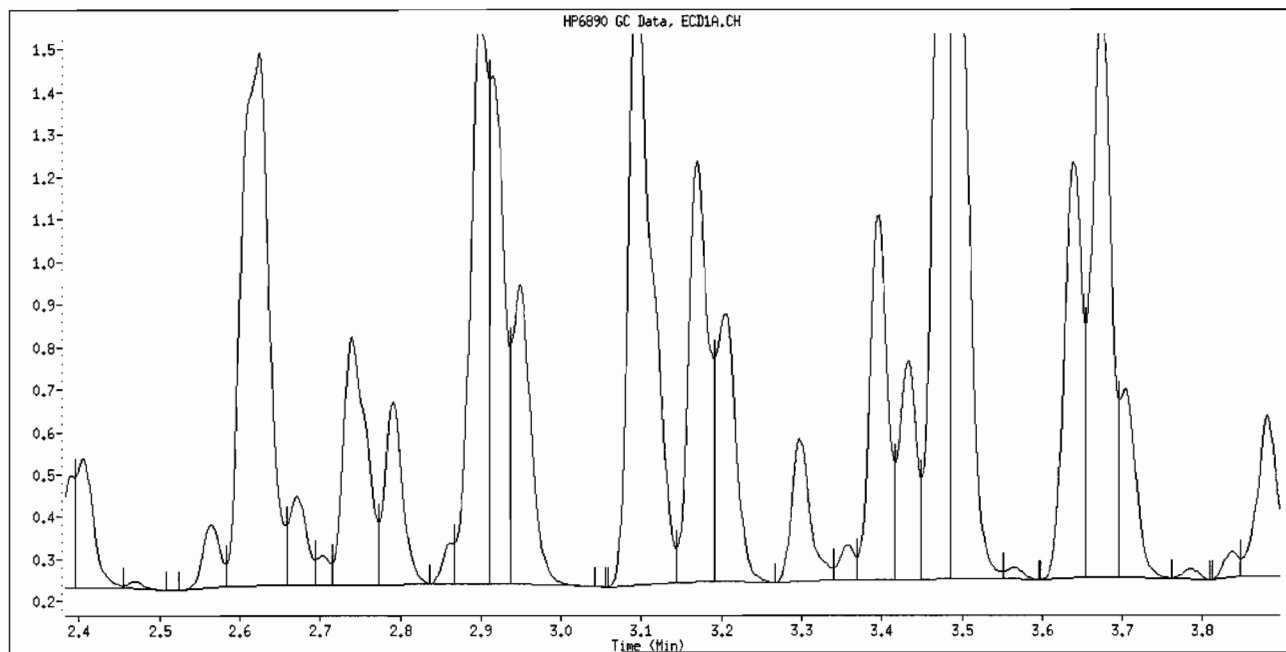
Inj. Date and Time: 16-APR-2010 15:09

Instrument ID: Gcp.i

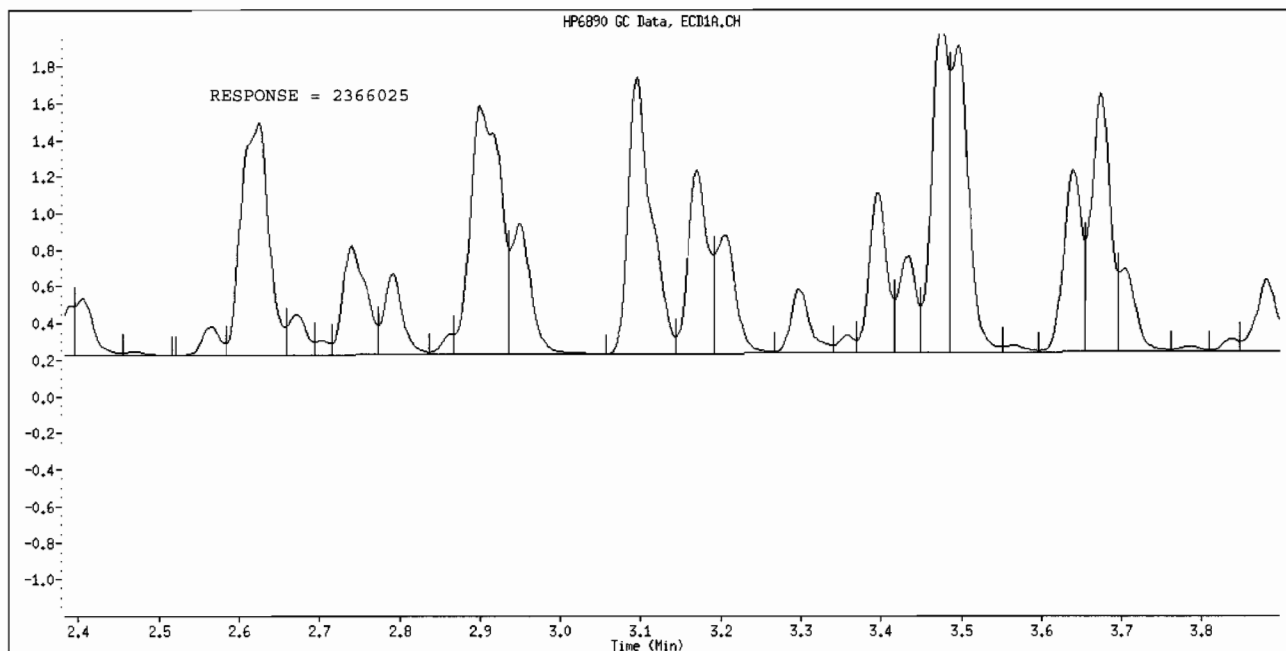
Client ID:

Compound Name: Aroclor-1248

CAS #: 12672-29-6



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL317.D  
 Report Date: 17-Apr-2010 10:28

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL317.D  
 Lab Smp Id: 1221/1254  
 Inj Date : 16-APR-2010 15:28  
 Operator : DEK  
 Smp Info : 1221/1254  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target  
 Cal Date : 16-APR-2010 15:28  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL317.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar2154.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
23 Aroclor-1221			CAS #: 11104-28-2				
1.377	1.377	0.000	345251	500.000	500.0	80.00- 120.00	100.00 (M)
1.826	1.826	0.000	495986	500.000	500.0	114.93- 172.39	143.66
1.964	1.964	0.000	1330283	500.000	500.0	308.25- 462.37	385.31
Average of Peak Amounts =			500.000				

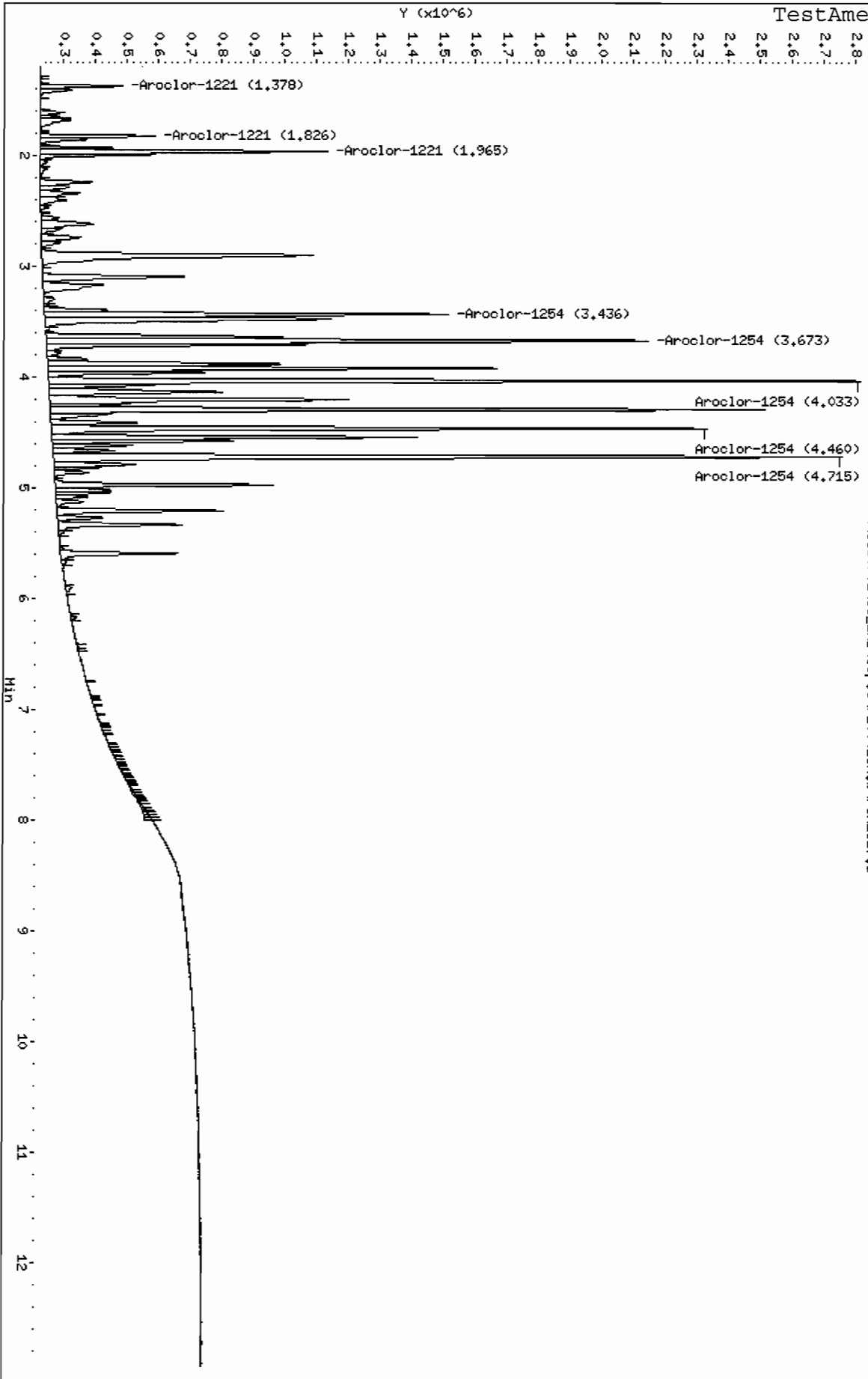
27 Aroclor-1254			CAS #: 11097-69-1				
3.436	3.436	0.000	2319704	500.000	500.0	80.00- 120.00	100.00 (M)
3.672	3.672	0.000	3753482	500.000	500.0	129.45- 194.17	161.81
4.032	4.032	0.000	4354061	500.000	500.0	150.16- 225.24	187.70
4.459	4.459	0.000	3552152	500.000	500.0	122.50- 183.76	153.13
4.714	4.714	0.000	5053425	500.000	500.0	174.28- 261.42	217.85
Average of Peak Amounts =			500.000				

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp,i\PI00416A,b\PCAL317.D  
 Date : 16-APR-2010 15:28  
 Client ID:  
 Sample Info: 1221/1254  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PCAL317.D

TestAmerica St. Louis

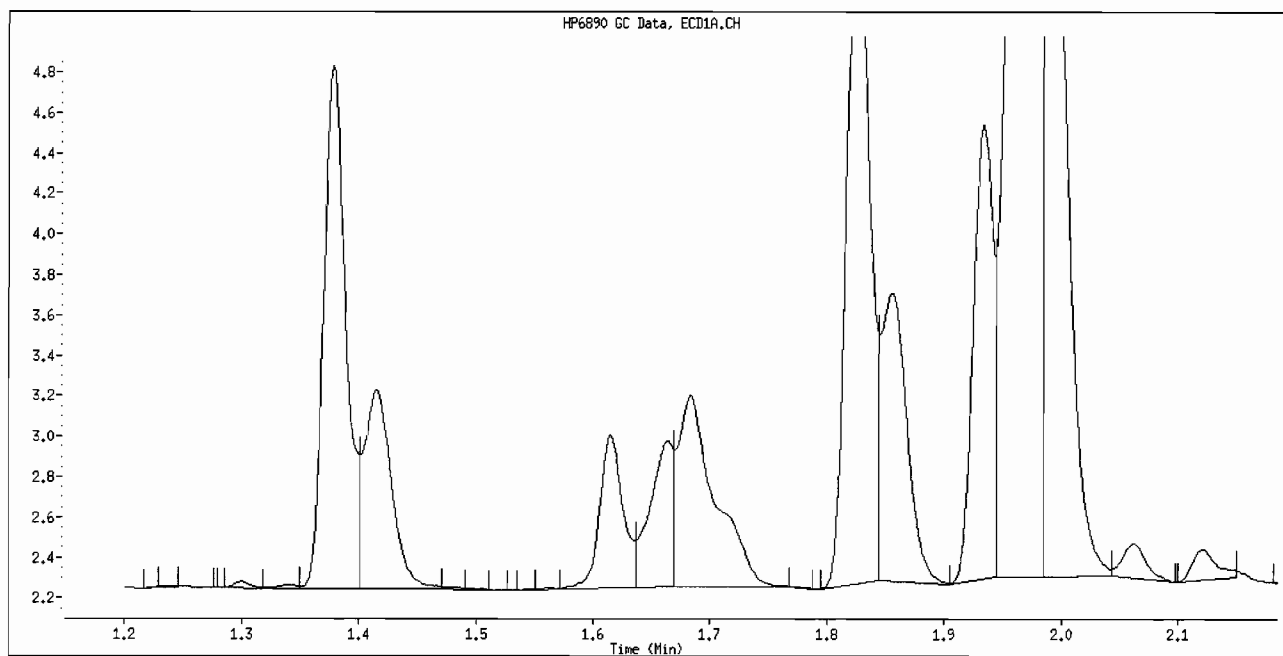
Inj. Date and Time: 16-APR-2010 15:28

Instrument ID: Gcp.i

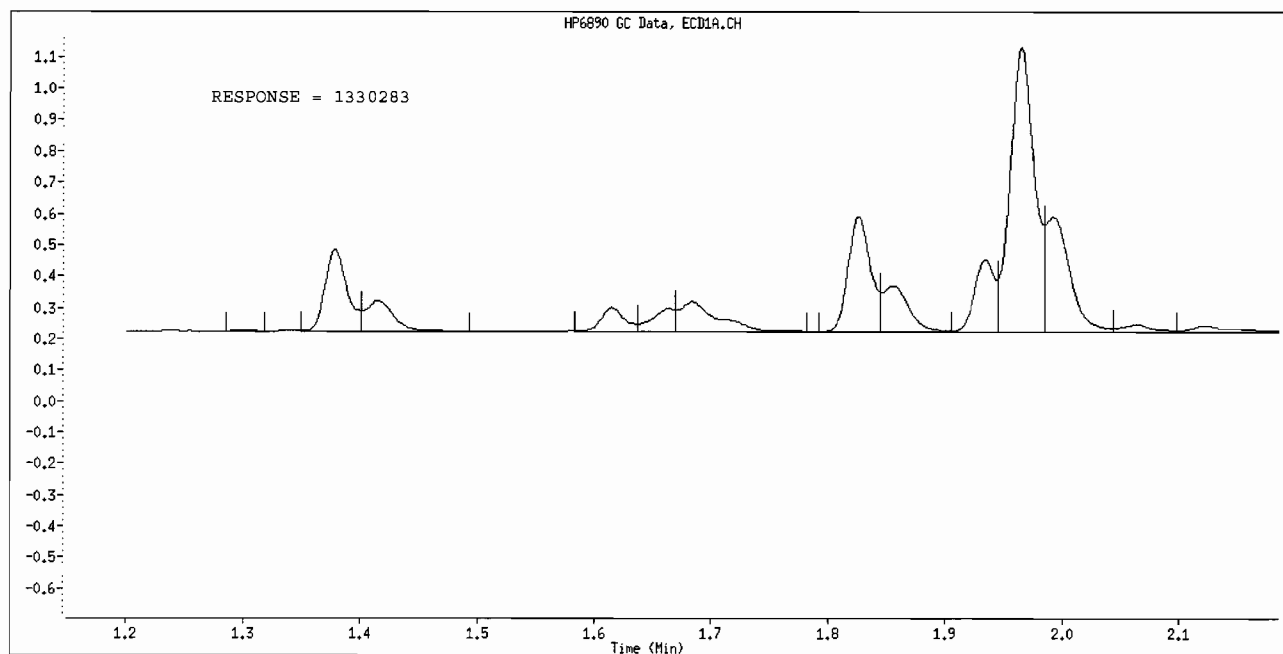
Client ID:

Compound Name: Aroclor-1221

CAS #: 11104-28-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL317.D

TestAmerica St. Louis

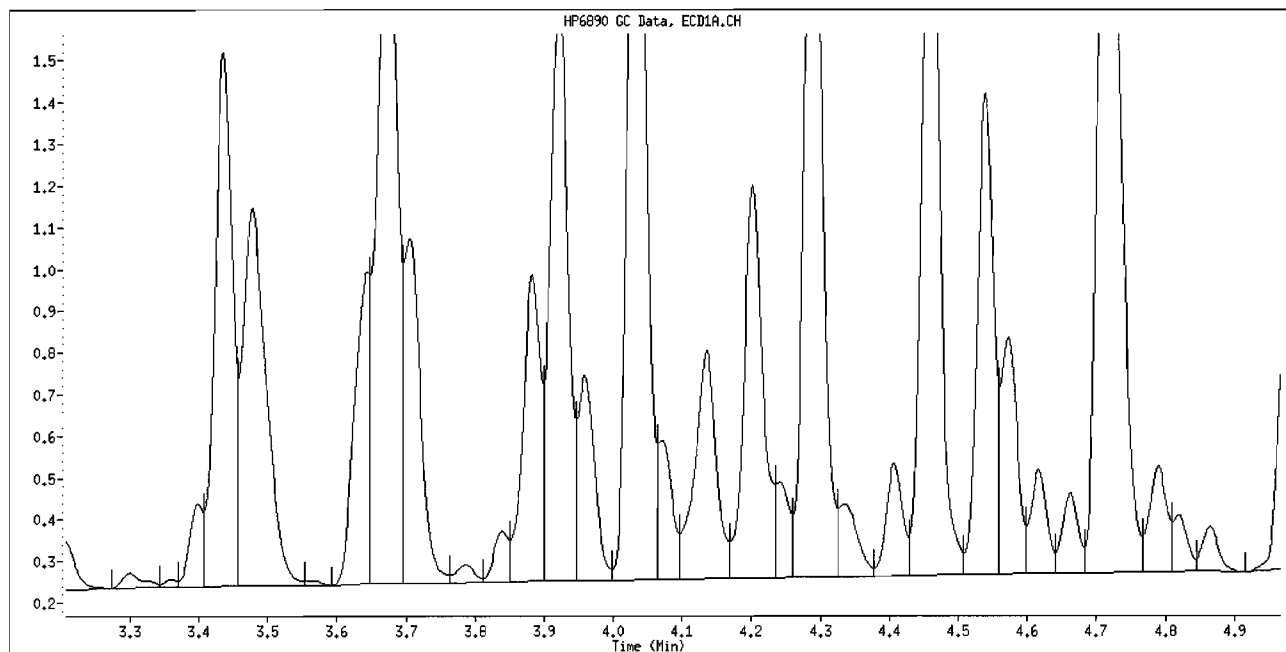
Inj. Date and Time: 16-APR-2010 15:28

Instrument ID: Gcp.i

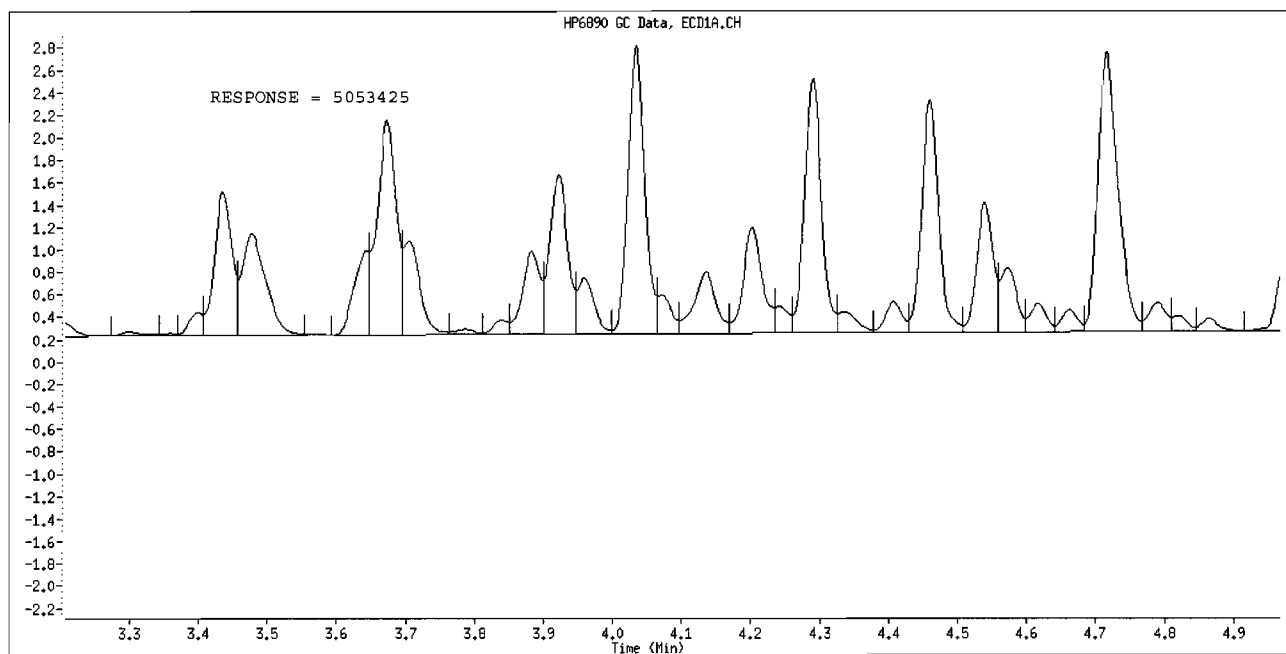
Client ID:

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL318.D  
 Report Date: 17-Apr-2010 10:28

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL318.D  
 Lab Smp Id: 1262  
 Inj Date : 16-APR-2010 15:47  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1262  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 15:47 Cal File: PCAL318.D  
 Als bottle: 16 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1262.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

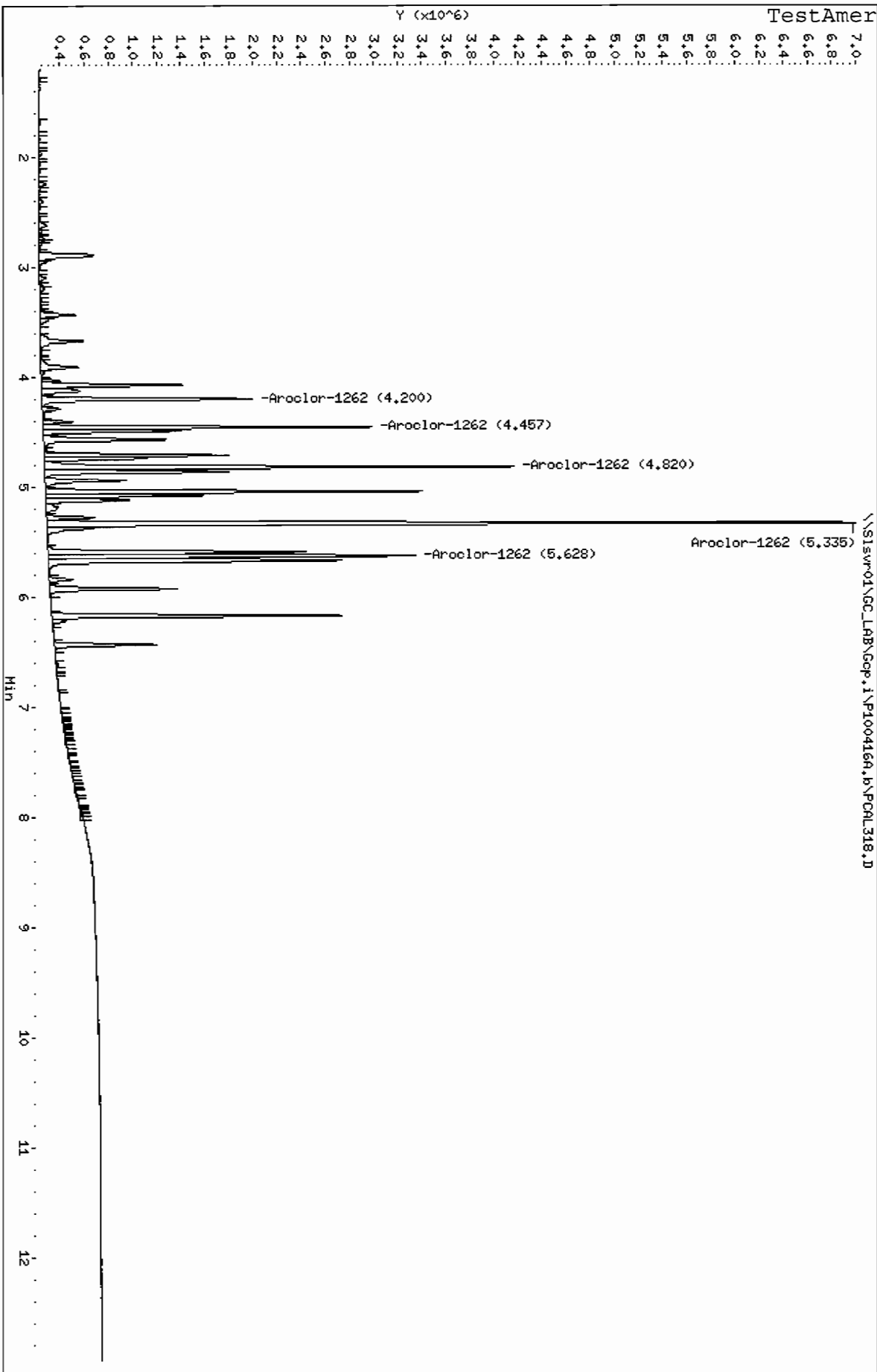
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
35	Aroclor-1262				CAS #: 37324-23-5	
4.199	4.199	0.000	2800965 500.000	500.0	80.00- 120.00	100.00 (M)
4.456	4.456	0.000	4275445 500.000	500.0	122.11- 183.17	152.64
4.819	4.819	0.000	6306531 500.000	500.0	180.12- 270.19	225.16
5.334	5.334	0.000	10793327 500.000	500.0	308.27- 462.41	385.34
5.628	5.628	0.000	4993991 500.000	500.0	142.64- 213.95	178.30
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\Sisvr01\GC\_LAB\Gcp.i\PI004166.b\PCRL318.D  
Date: 16-APR-2010 15:47  
Client ID:  
Sample Info: 1262  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



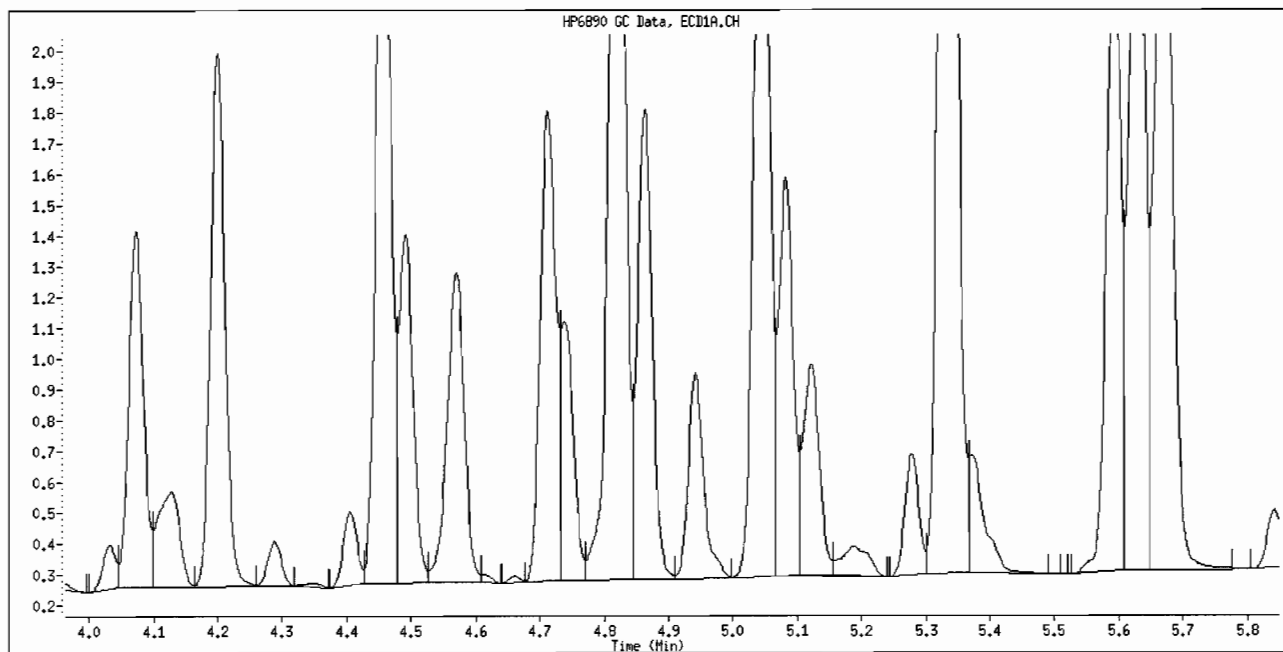
Inj. Date and Time: 16-APR-2010 15:47

Instrument ID: Gcp.i

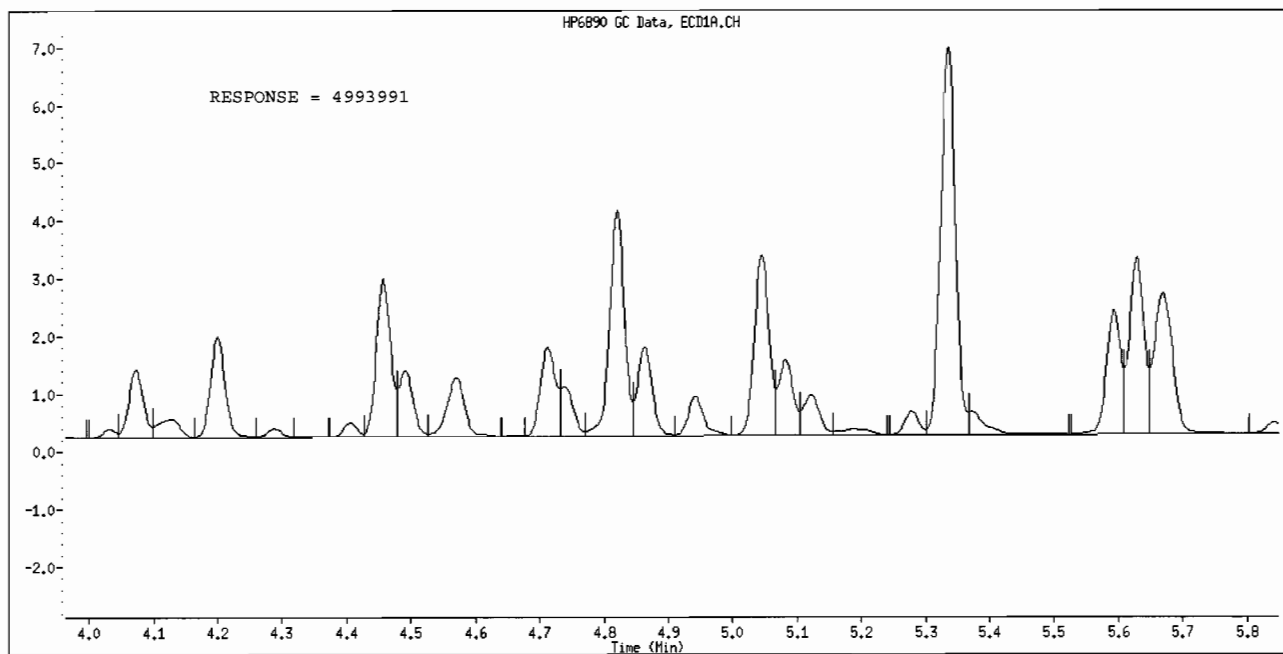
Client ID:

Compound Name: Aroclor-1262

CAS #: 37324-23-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL319.D  
 Report Date: 17-Apr-2010 10:29

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL319.D  
 Lab Smp Id: 1268  
 Inj Date : 16-APR-2010 16:06  
 Operator : DEK  
 Smp Info : 1268  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:26 target  
 Cal Date : 16-APR-2010 16:06  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL319.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1268.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

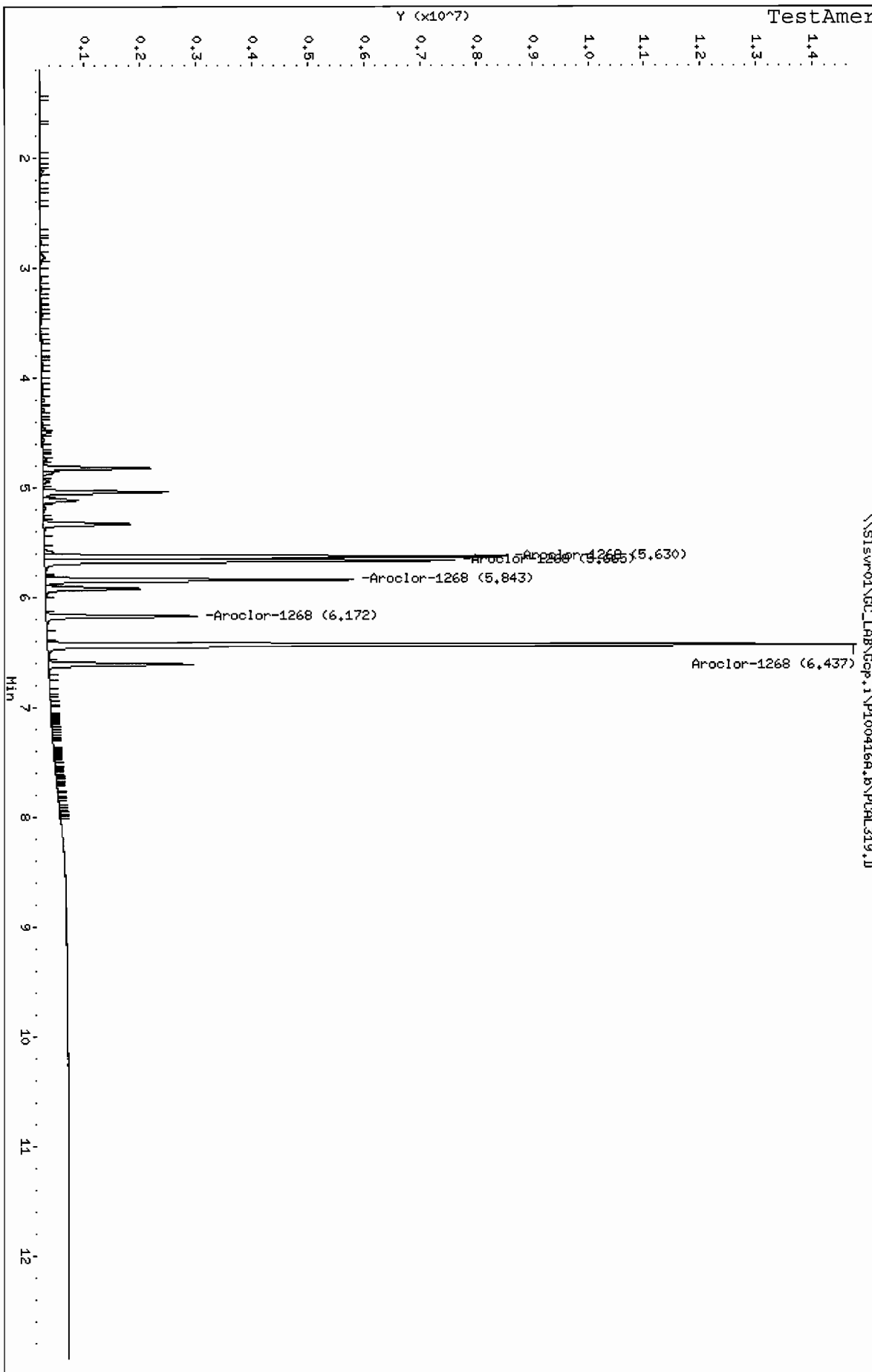
AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng/mL)	(ng/mL)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
36 Aroclor-1268			CAS #: 11100-14-4			
5.630	5.630	0.000	13307804	500.000	500.0	80.00- 120.00
						100.00 (M)
5.665	5.665	0.000	12973398	500.000	500.0	77.99- 116.98
						97.49
5.843	5.843	0.000	8848199	500.000	500.0	53.19- 79.79
						66.49
6.171	6.171	0.000	4320917	500.000	500.0	25.98- 38.96
						32.47
6.436	6.436	0.000	23715325	500.000	500.0	142.56- 213.85
						178.21
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gcp.i\PI004168.b\PCAL319.D  
 Date: 16-APR-2010 16:06  
 Client ID:  
 Sample Info: 1268  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PCAL319.D

TestAmerica St. Louis

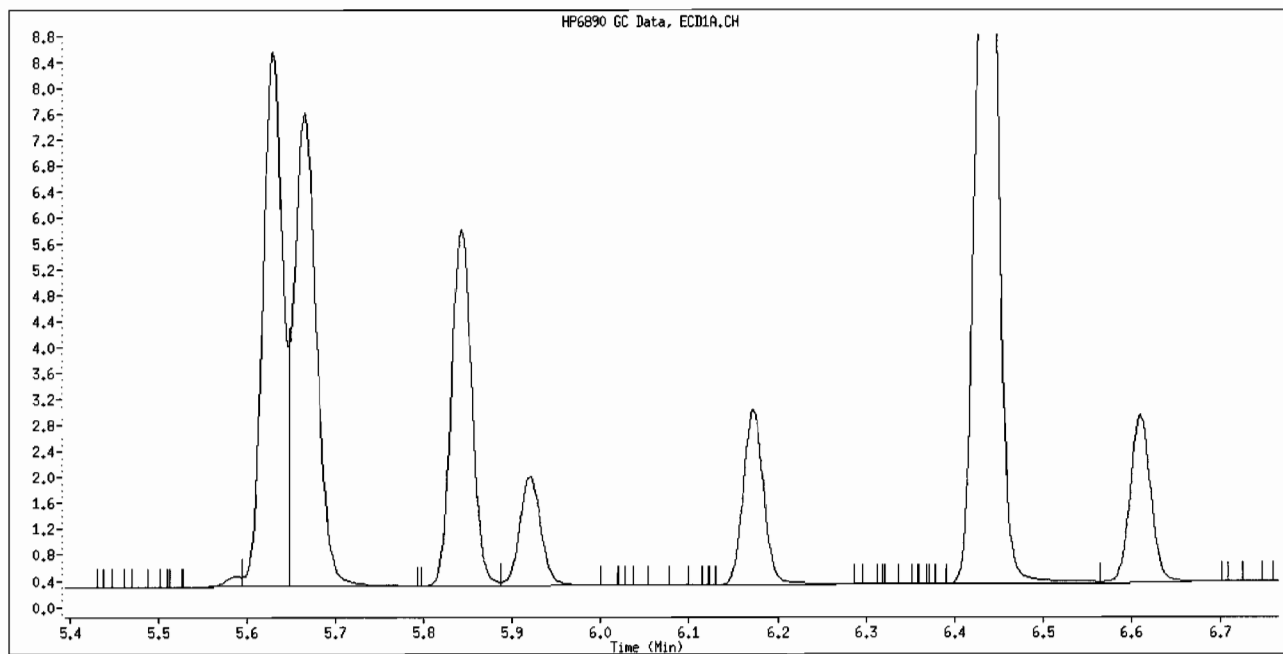
Inj. Date and Time: 16-APR-2010 16:06

Instrument ID: Gcp.i

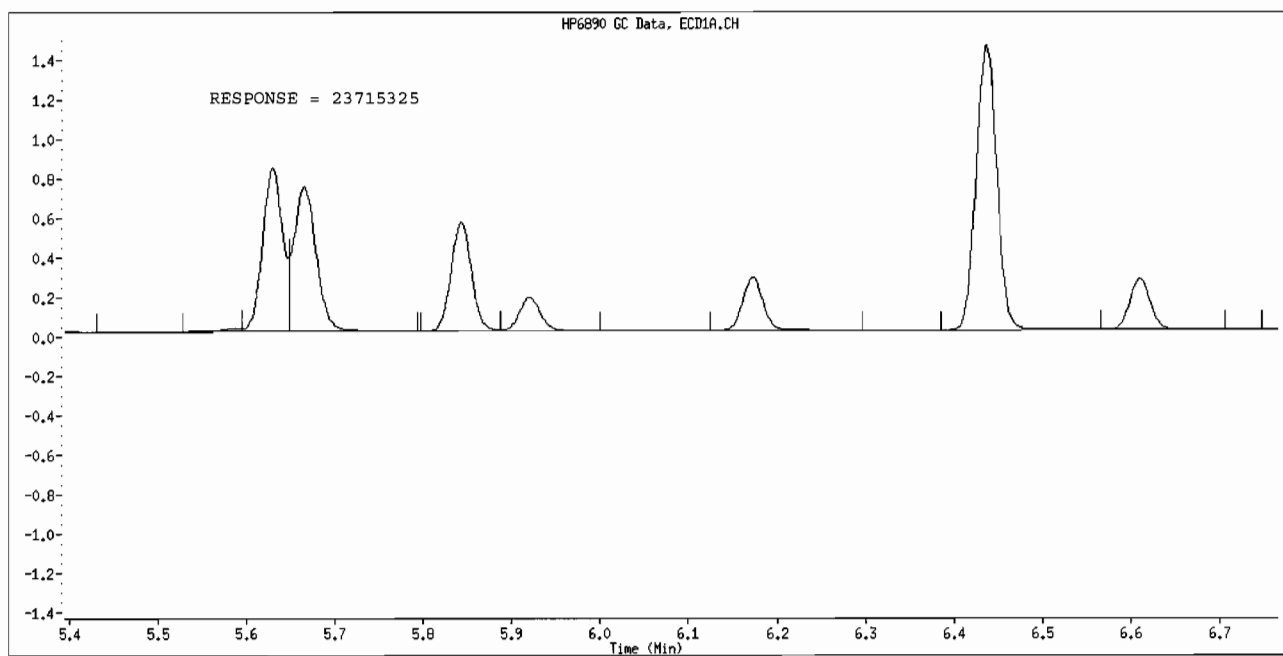
Client ID:

Compound Name: Aroclor-1268

CAS #: 11100-14-4



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PICV313.D  
 Report Date: 17-Apr-2010 10:22

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TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 14:13  
 Lab File ID: PICV313.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 13:54  
 Lab Sample ID: ICV Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m

COMPOUND	RRF / AMOUNT	RF1000	MIN	MAX	CURVE TYPE
=====	=====	=====	=====	=====	=====
22 Aroclor-1016 (1)	2839	2863	0.010	-0.84543	20.00000 Averaged
(2)	5629	5542	0.010	1.55026	20.00000 Averaged
(3)	11589	12325	0.010	-6.34791	20.00000 Averaged
(4)	4713	4724	0.010	-0.23492	20.00000 Averaged
(5)	4840	4876	0.010	-0.73923	20.00000 Averaged
28 Aroclor-1260 (1)	7085	7169	0.010	-1.19391	20.00000 Averaged
(2)	12293	12610	0.010	-2.58126	20.00000 Averaged
(3)	12302	12715	0.010	-3.35790	20.00000 Averaged
(4)	19304	19939	0.010	-3.29250	20.00000 Averaged
(5)	9123	9565	0.010	-4.84802	20.00000 Averaged

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PICV313.D  
 Report Date: 17-Apr-2010 10:22

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PICV313.D  
 Lab Smp Id: ICV  
 Inj Date : 16-APR-2010 14:13  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICV  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:21 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 11 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: ICV.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	1.964	1.965	2862893	1008	80.00- 120.00	100.00(M)
	2.241	2.240	5542176	984.5	154.87- 232.30	193.59
	2.624	2.624	12324962	1063	344.41- 516.61	430.51
	2.739	2.739	4724045	1002	132.01- 198.01	165.01
	3.094	3.095	4876266	1007	136.26- 204.39	170.33
Average of Peak Amounts =			1012.90			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.199	4.200	7169113	1012	80.00- 120.00	100.00(M)
	4.457	4.457	12610402	1026	140.72- 211.08	175.90
	4.712	4.712	12715380	1034	141.89- 212.84	177.36
	5.334	5.335	19939397	1033	222.50- 333.76	278.13
	5.592	5.594	9565094	1048	106.74- 160.11	133.42
Average of Peak Amounts =			1030.60			



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PICV313.D  
Report Date: 17-Apr-2010 10:22

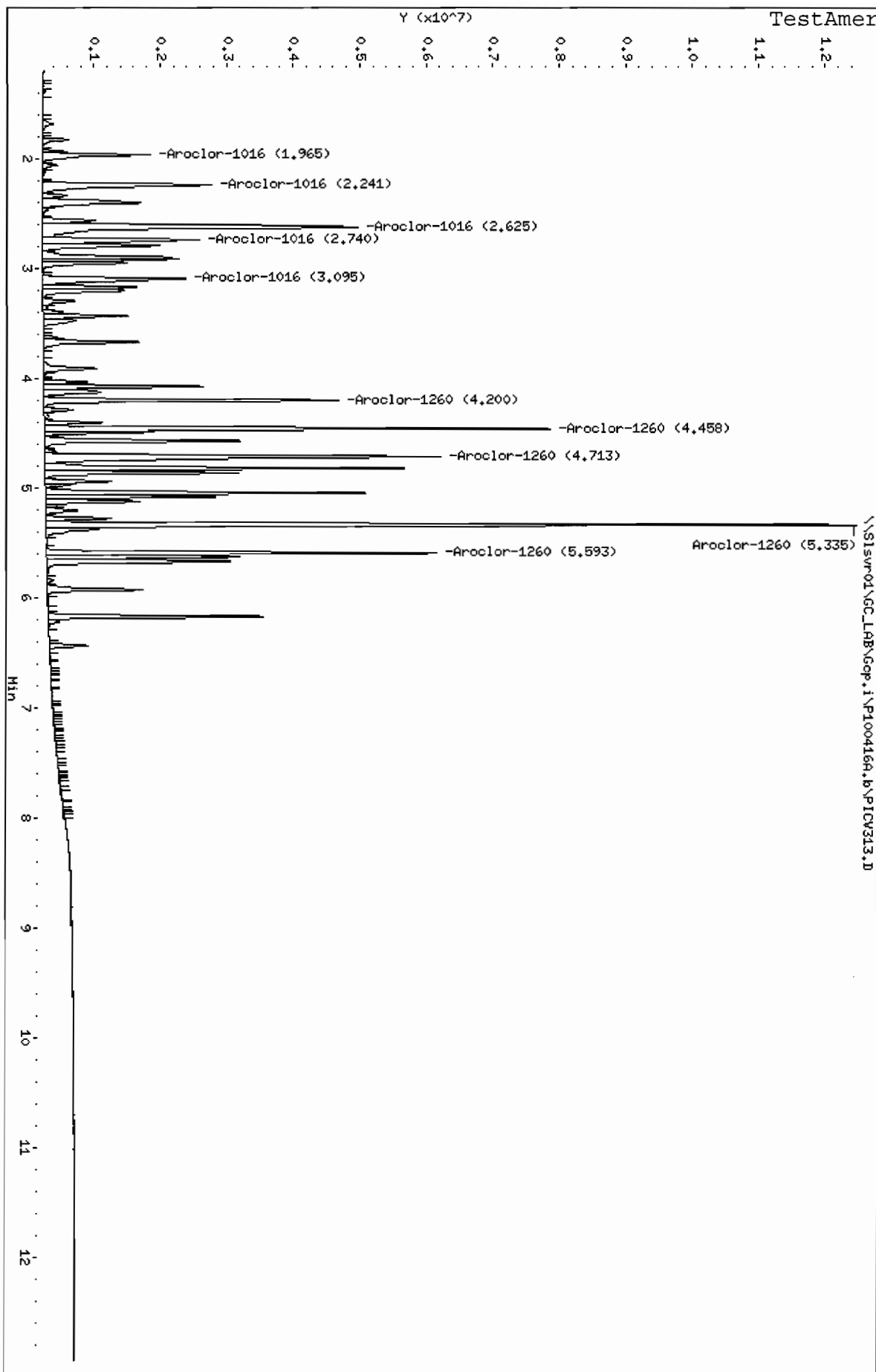
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gcp.i\P100416a.b\PICV313.D  
Date: 16-APR-2010 14:13  
Client ID:  
Sample Info: ICV  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PICV313.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i  
Lab File ID: PICV313.D  
Analysis Type: SOIL

Injection Date: 16-APR-2010 14:13  
Lab Sample ID: ICV  
Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\808:

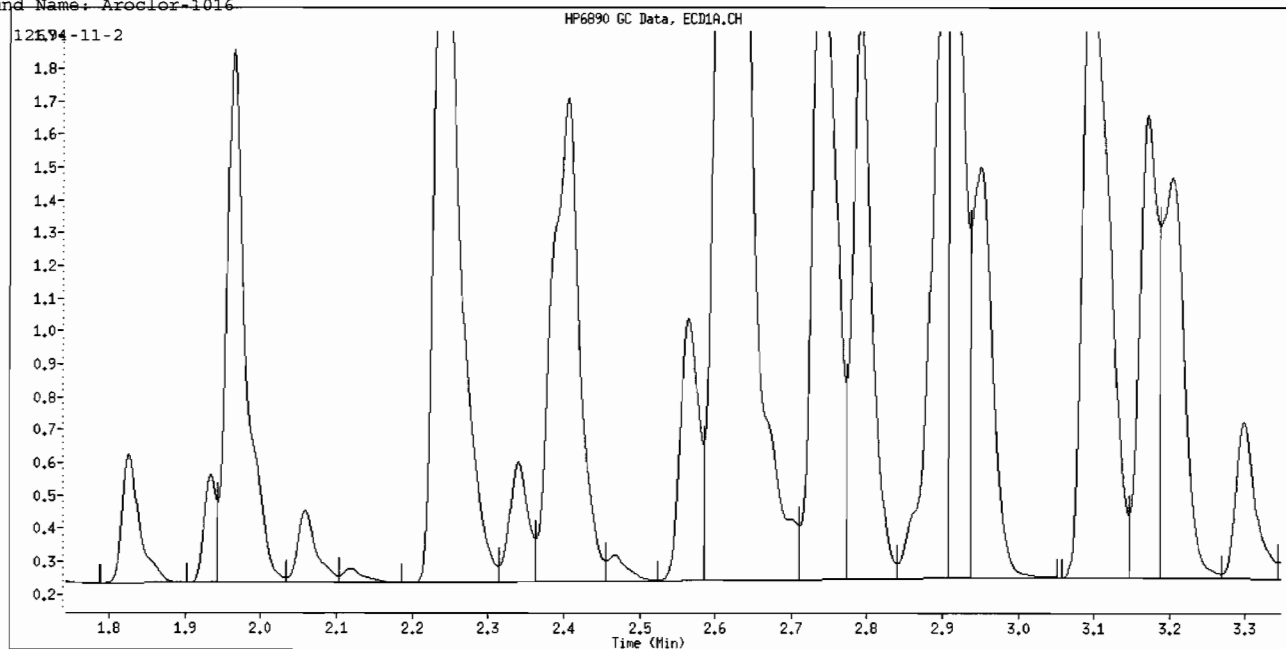
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	1013.2345	1.3	20.0
486539264 Aroclor-1260	1000.0000	1030.5472	3.1	20.0

Data File Name: PICV313.D

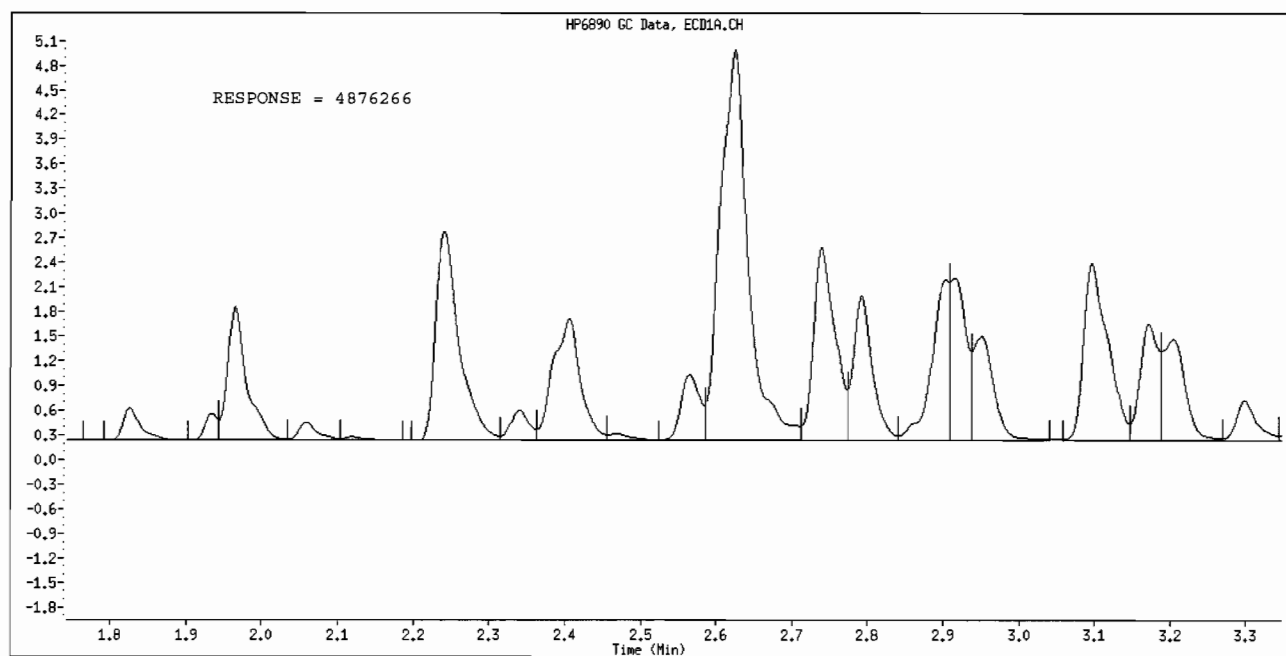
Inj. Date and Time: 16-APR-2010 14:13

Instrument ID: Gcp.i

Client ID:

Compound Name: ~~Aroclor-1016~~CAS #: ~~12619-11-2~~

Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PICV313.D

TestAmerica St. Louis

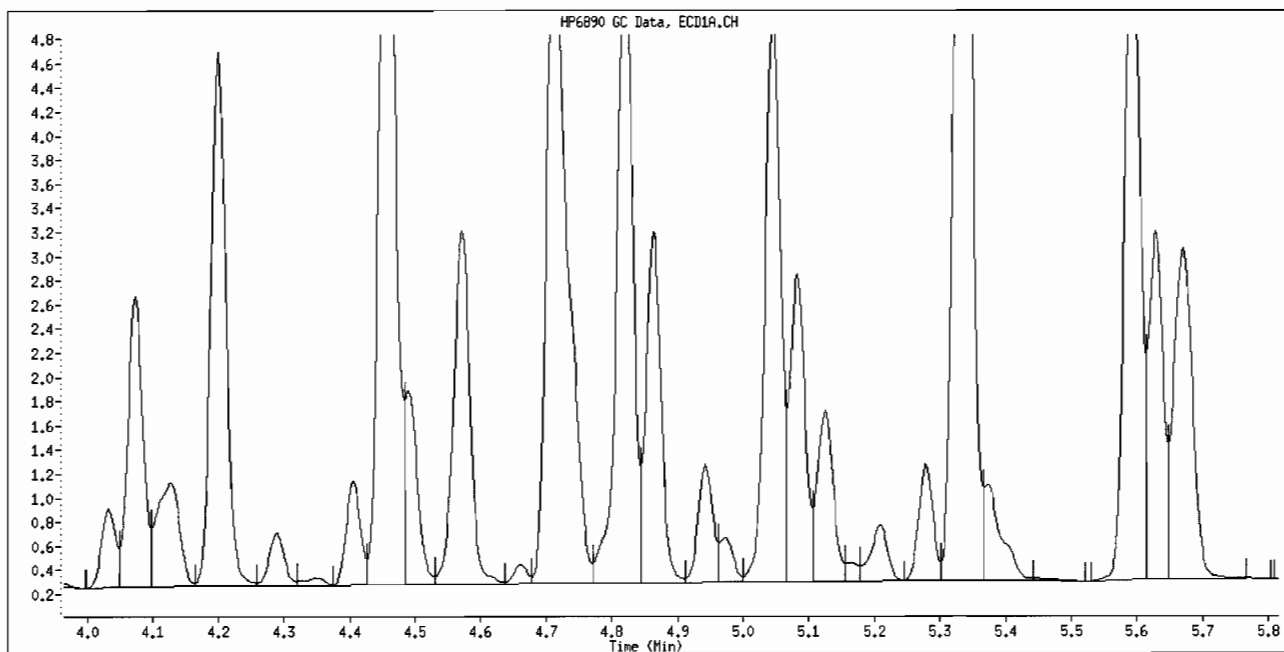
Inj. Date and Time: 16-APR-2010 14:13

Instrument ID: Gcp.i

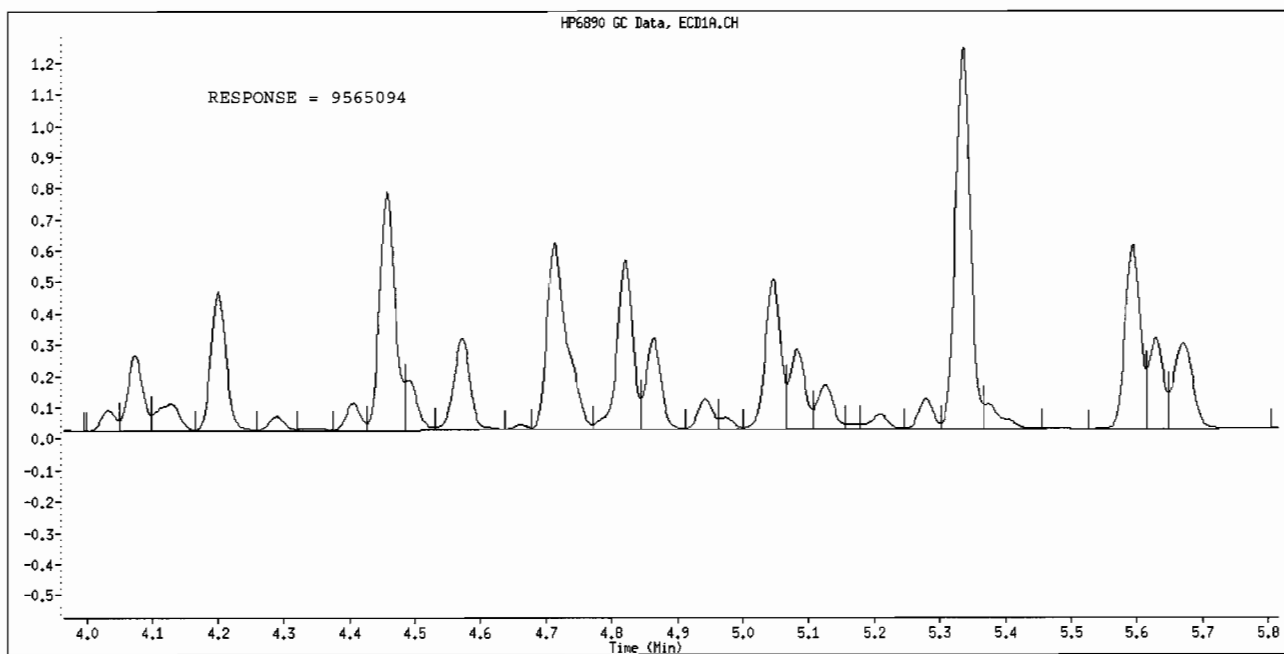
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Report Date : 19-Apr-2010 10:04

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Last Edit : 17-Apr-2010 15:02 target  
 Curve Type : Average

## Calibration File Names:

Level 1: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL305.D  
 Level 2: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL306.D  
 Level 3: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL307.D  
 Level 4: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL319.D  
 Level 5: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL309.D  
 Level 6: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL310.D  
 Level 7: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL311.D  
 Level 8: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL312.D

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
22 Aroclor-1016(1)	2489 1620	2259 1614	2106	1939	1761	1713	1938	16.580
(2)	5058 3196	4571 3243	4050	3784	3622	3386	3864	17.184
(3)	8810 6842	7989 7112	7777	7518	7051	7108	7526	8.648
(4)	4004 2797	3614 2858	3432	3217	2952	2927	3225	13.268
(5)	2950 2137	2648 2211	2586	2447	2241	2227	2431	11.568
23 Aroclor-1221(1)	++++ ++++	++++ ++++	++++	535	++++	++++	535	0.000 <-
(2)	++++ ++++	++++ ++++	++++	1050	++++	++++	1050	0.000 <-
(3)	++++ ++++	++++ ++++	++++	2375	++++	++++	2375	0.000 <-

Report Date : 19-Apr-2010 10:04

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcp.i\P100416B.b\8082B.m  
 Last Edit : 17-Apr-2010 15:02 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	* RSD
	2500.000 Level 7	4000.000 Level 8						
24 Aroclor-1232(1)	++++ ++++	++++ ++++	++++ ++++	2005 2005	++++ ++++	++++ ++++	2005	0.000 <-
(2)	++++ ++++	++++ ++++	++++ ++++	1774 1774	++++ ++++	++++ ++++	1774	0.000 <-
(3)	++++ ++++	++++ ++++	++++ ++++	3440 3440	++++ ++++	++++ ++++	3440	0.000 <-
(4)	++++ ++++	++++ ++++	++++ ++++	1159 1159	++++ ++++	++++ ++++	1159	0.000 <-
(5)	++++ ++++	++++ ++++	++++ ++++	1301 1301	++++ ++++	++++ ++++	1301	0.000 <-
25 Aroclor-1242(1)	++++ ++++	++++ ++++	++++ ++++	3049 3049	++++ ++++	++++ ++++	3049	0.000 <-
(2)	++++ ++++	++++ ++++	++++ ++++	1335 1335	++++ ++++	++++ ++++	1335	0.000 <-
(3)	++++ ++++	++++ ++++	++++ ++++	5774 5774	++++ ++++	++++ ++++	5774	0.000 <-
(4)	++++ ++++	++++ ++++	++++ ++++	2212 2212	++++ ++++	++++ ++++	2212	0.000 <-
(5)	++++ ++++	++++ ++++	++++ ++++	2566 2566	++++ ++++	++++ ++++	2566	0.000 <-
26 Aroclor-1248(1)	++++ ++++	++++ ++++	++++ ++++	2304 2304	++++ ++++	++++ ++++	2304	0.000 <-

Report Date : 19-Apr-2010 10:04

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcp.i\P100416B.b\8082B.m  
 Last Edit : 17-Apr-2010 15:02 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
(2)	++++	++++	++++	3047	++++	++++	3047	0.000 <-
	++++	++++					3047	0.000 <-
(3)	++++	++++	++++	3294	++++	++++	3294	0.000 <-
	++++	++++					3294	0.000 <-
(4)	++++	++++	++++	3872	++++	++++	3872	0.000 <-
	++++	++++					3872	0.000 <-
(5)	++++	++++	++++	3851	++++	++++	3851	0.000 <-
	++++	++++					3851	0.000 <-
27 Aroclor-1254(1)	++++	++++	++++	3464	++++	++++	3464	0.000 <-
	++++	++++					3464	0.000 <-
(2)	++++	++++	++++	3879	++++	++++	3879	0.000 <-
	++++	++++					3879	0.000 <-
(3)	++++	++++	++++	5543	++++	++++	5543	0.000 <-
	++++	++++					5543	0.000 <-
(4)	++++	++++	++++	4747	++++	++++	4747	0.000 <-
	++++	++++					4747	0.000 <-
(5)	++++	++++	++++	5853	++++	++++	5853	0.000 <-
	++++	++++					5853	0.000 <-
28 Aroclor-1260(1)	5468	4968	4774	4584	4228	4244		
	4119	4262					4581	10.195
(2)	6626	6064	5793	5570	5236	5259		
	5121	5310					5622	9.179



Report Date : 19-Apr-2010 10:04

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\slsvr01\GC LAB\Gcp.i\P100416B.b\8082B.m  
 Last Edit : 17-Apr-2010 15:02 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	* RSD
	2500.000 Level 7	4000.000 Level 8						
(3)	8180 6616	7529 6877	7314	7104	6692	6764	7135	7.399
(4)	5279 4160	4840 4336	4701	4545	4234	4270	4546	8.370
(5)	11977 10475	11104 10946	10960	10859	10434	10570	10916	4.533
35 Aroclor-1262(1)	++++ ++++	++++ ++++	++++	3573	++++	++++	3573	0.000 <-
(2)	++++ ++++	++++ ++++	++++	4080	++++	++++	4080	0.000 <-
(3)	++++ ++++	++++ ++++	++++	6414	++++	++++	6414	0.000 <-
(4)	++++ ++++	++++ ++++	++++	11411	++++	++++	11411	0.000 <-
(5)	++++ ++++	++++ ++++	++++	8603	++++	++++	8603	0.000 <-
36 Aroclor-1268(1)	++++ ++++	++++ ++++	++++	14591	++++	++++	14591	0.000 <-
(2)	++++ ++++	++++ ++++	++++	14870	++++	++++	14870	0.000 <-
(3)	++++ ++++	++++ ++++	++++	10175	++++	++++	10175	0.000 <-

Report Date : 19-Apr-2010 10:04

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2010 11:41  
 End Cal Date : 16-APR-2010 16:06  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Last Edit : 17-Apr-2010 15:02 target  
 Curve Type : Average

Compound	50.000	100.000	250.000	500.000	1000.000	1500.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	2500.000	4000.000						
	Level 7	Level 8						
(4)	++++	++++	++++	4939	++++	++++	4939	0.000 <-
(5)	++++	++++	++++	29989	++++	++++	29989	0.000 <-
M 37 PCB (Total)	++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 32 Decachlorobiphenyl	103862	96730	75576	88890	83248	83162	85451	13.135
	68316	83828						

Report Date : 19-Apr-2010 10:04

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Quant Method : ESTD Target Version : 4.14  
 Last Update : 17-Apr-2010 15:02 Number of Cpnds : 11  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	500.000000
Initial:End Threshold	30.000000
Initial:Area Threshold	100.000000
Initial:P-P Resolution	2.000000
Initial:Bunch Factor	0.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.200000
0.000:Integrator OFF	n/a
1.800:Integrator ON	n/a
9.000:Integrator OFF	n/a

Compound	RT	RT Window	RF
22 Aroclor-1016	2.538	2.448-2.628	1.94e+003
	2.909	2.819-2.999	3.86e+003
	3.336	3.246-3.426	7.53e+003
	3.463	3.373-3.553	3.23e+003
	3.906	3.816-3.996	2.43e+003
23 Aroclor-1221	1.736	1.646-1.826	5.35e+002
	2.356	2.266-2.446	1.05e+003
	2.536	2.446-2.626	2.38e+003
24 Aroclor-1232	2.535	2.445-2.625	2.00e+003
	2.907	2.817-2.997	1.77e+003
	3.335	3.245-3.425	3.44e+003
	4.307	4.217-4.397	1.16e+003
	4.520	4.430-4.610	1.30e+003
25 Aroclor-1242	2.911	2.821-3.001	3.05e+003
	3.134	3.044-3.224	1.34e+003
	3.338	3.248-3.428	5.77e+003
	4.308	4.218-4.398	2.21e+003
	4.523	4.433-4.613	2.57e+003
26 Aroclor-1248	3.651	3.561-3.741	2.30e+003
	3.904	3.814-3.994	3.05e+003
	4.021	3.931-4.111	3.29e+003
	4.306	4.216-4.396	3.87e+003
	4.519	4.429-4.609	3.85e+003
27 Aroclor-1254	4.303	4.213-4.393	3.46e+003
	4.485	4.395-4.575	3.88e+003
	4.916	4.826-5.006	5.54e+003
	5.456	5.366-5.546	4.75e+003
	5.633	5.543-5.723	5.85e+003

Report Date : 19-Apr-2010 10:04

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m

Compound	RT	RT Window	RF
28 Aroclor-1260	5.101	5.011-5.191	4.58e+003
	5.299	5.209-5.389	5.62e+003
	5.631	5.541-5.721	7.13e+003
	5.994	5.904-6.084	4.55e+003
	6.231	6.141-6.321	1.09e+004
35 Aroclor-1262	5.100	5.010-5.190	3.57e+003
	5.298	5.208-5.388	4.08e+003
	5.718	5.628-5.808	6.41e+003
	6.230	6.140-6.320	1.14e+004
	6.567	6.477-6.657	8.60e+003
36 Aroclor-1268	6.567	6.477-6.657	1.46e+004
	6.610	6.520-6.700	1.49e+004
	6.847	6.757-6.937	1.02e+004
	7.112	7.022-7.202	4.94e+003
	7.419	7.329-7.509	3.00e+004
M 37 PCB (Total)	1.000	0.920-1.080	
\$ 32 Decachlorobiphenyl	7.659	7.569-7.749	8.55e+004

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL305.D  
 Report Date: 17-Apr-2010 11:30

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL305.D  
 Lab Smp Id: ICAL-1  
 Inj Date : 16-APR-2010 11:41  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-1  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 3 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.535	2.537	124429	64.22	80.00- 120.00	100.00 (M)
	2.907	2.909	252909	65.46	41.14- 370.29	203.26
	3.334	3.336	440483	58.53	80.09- 720.81	354.00
	3.460	3.462	200208	62.08	33.53- 301.77	160.90
	3.904	3.906	147508	60.68	25.45- 229.06	118.55
Average of Peak Amounts =			62.1940			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.099	5.101	273399	59.68	80.00- 120.00	100.00 (M)
	5.297	5.299	331283	58.92	24.77- 222.90	121.17
	5.630	5.631	409012	57.33	31.66- 284.90	149.60
	5.994	5.994	263934	58.06	20.03- 180.27	96.54
	6.229	6.231	598866	54.86	49.35- 444.19	219.04
Average of Peak Amounts =			57.7700			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	7.659	7.659	259654	3.039		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL305.D  
Report Date: 17-Apr-2010 11:30

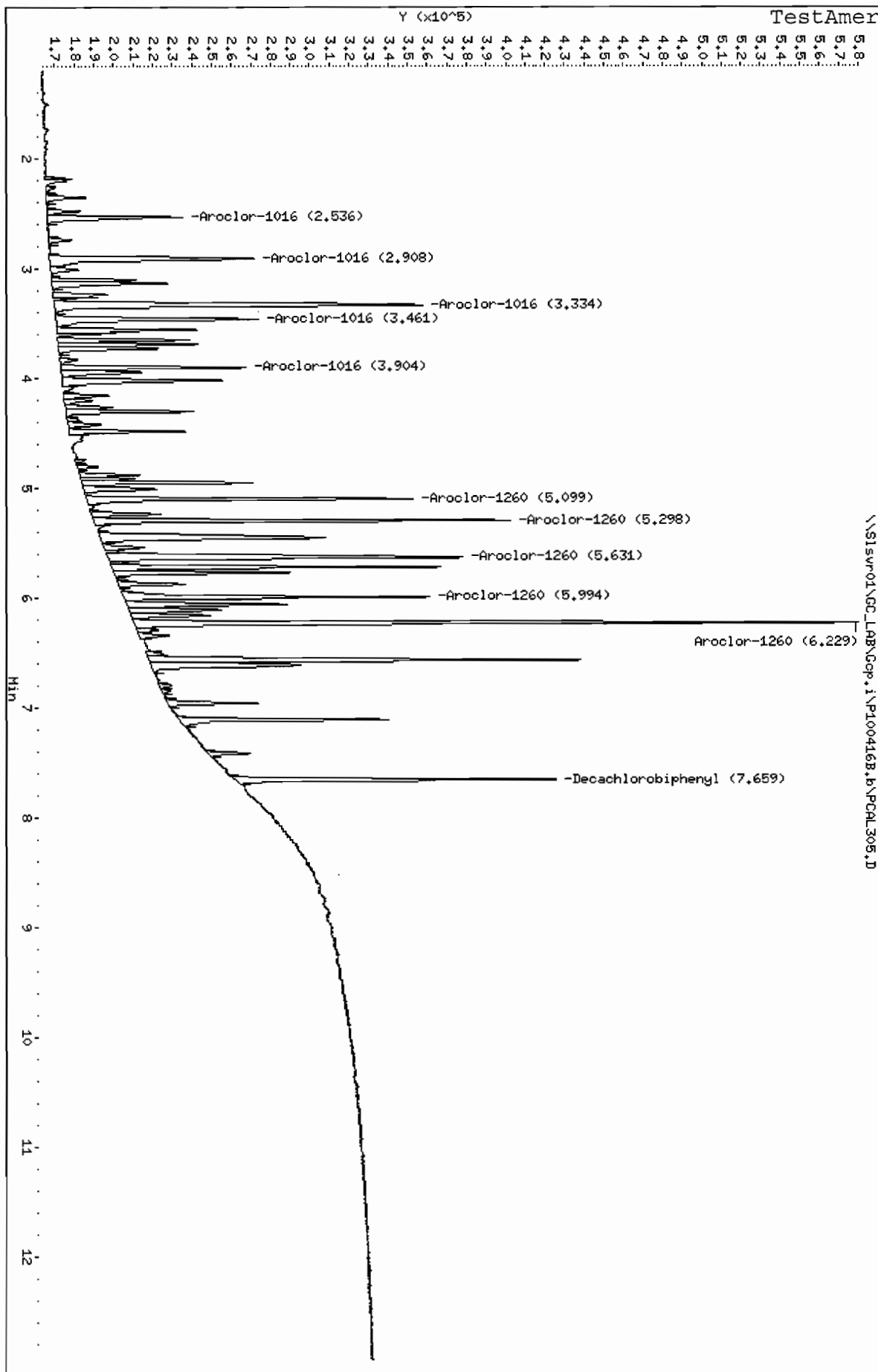
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gcp.1\P100416B.b\PCAL305.D  
Date: 16-APR-2010 11:41  
Client ID:  
Sample Info: ICAL-1  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53



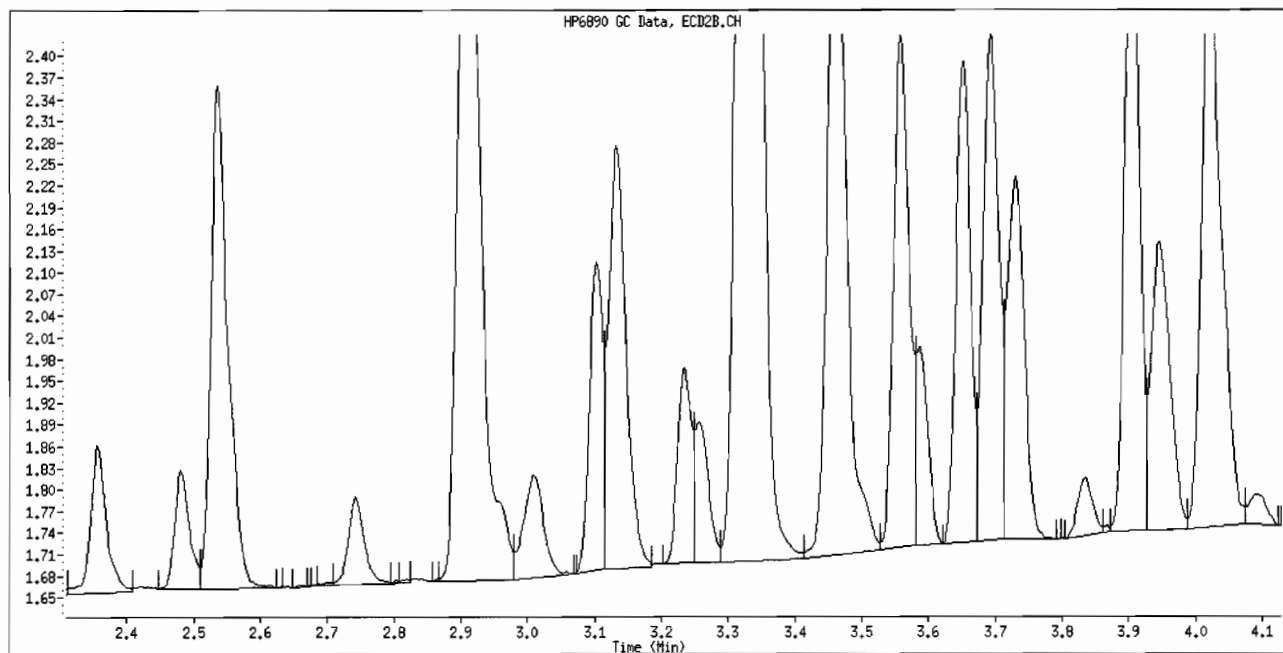
Inj. Date and Time: 16-APR-2010 11:41

Instrument ID: Gcp.i

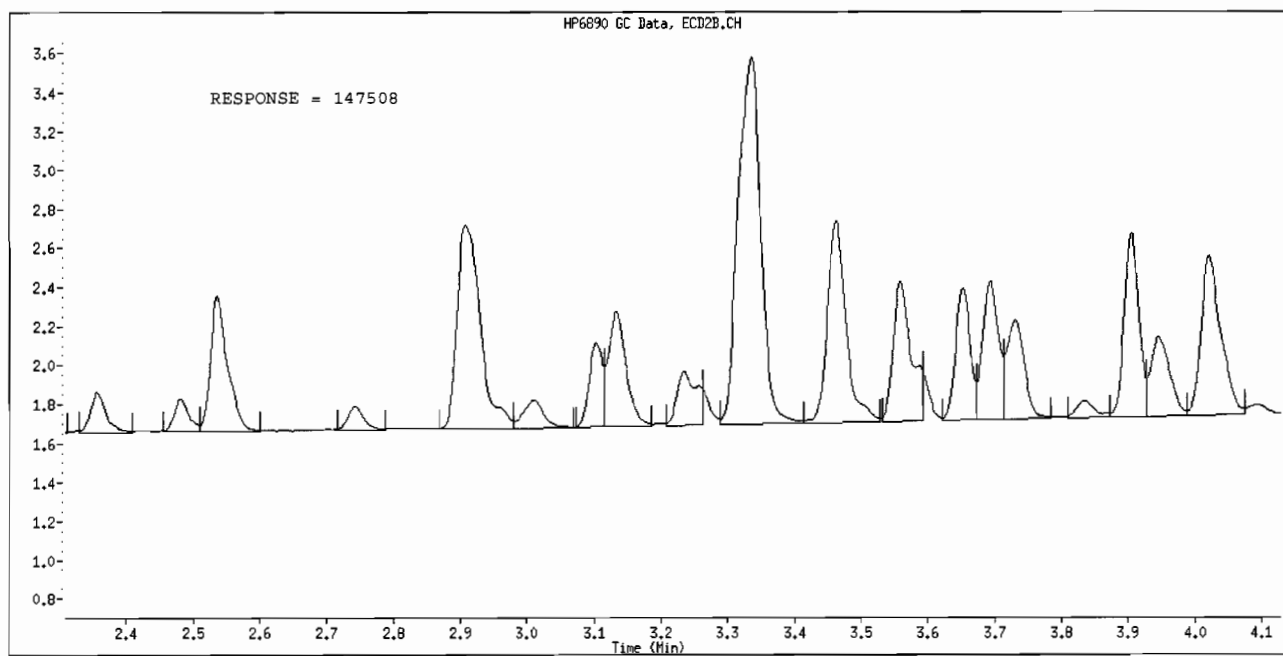
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: PCAL305.D

TestAmerica St. Louis

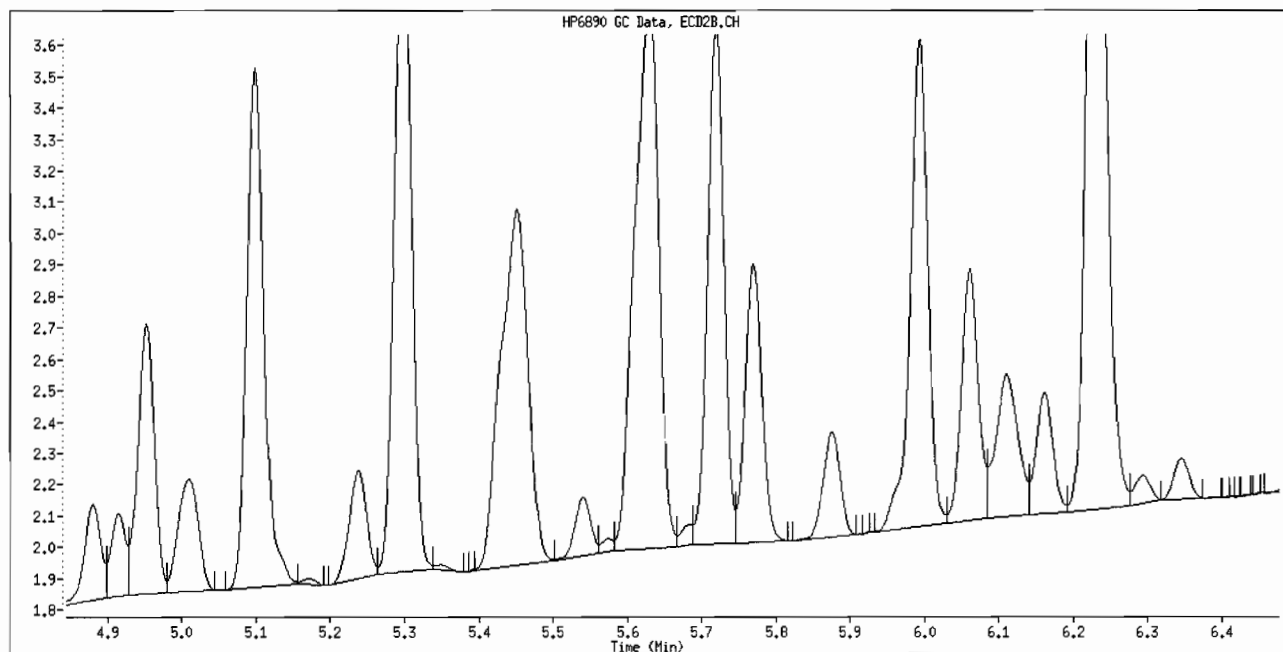
Inj. Date and Time: 16-APR-2010 11:41

Instrument ID: Gcp.i

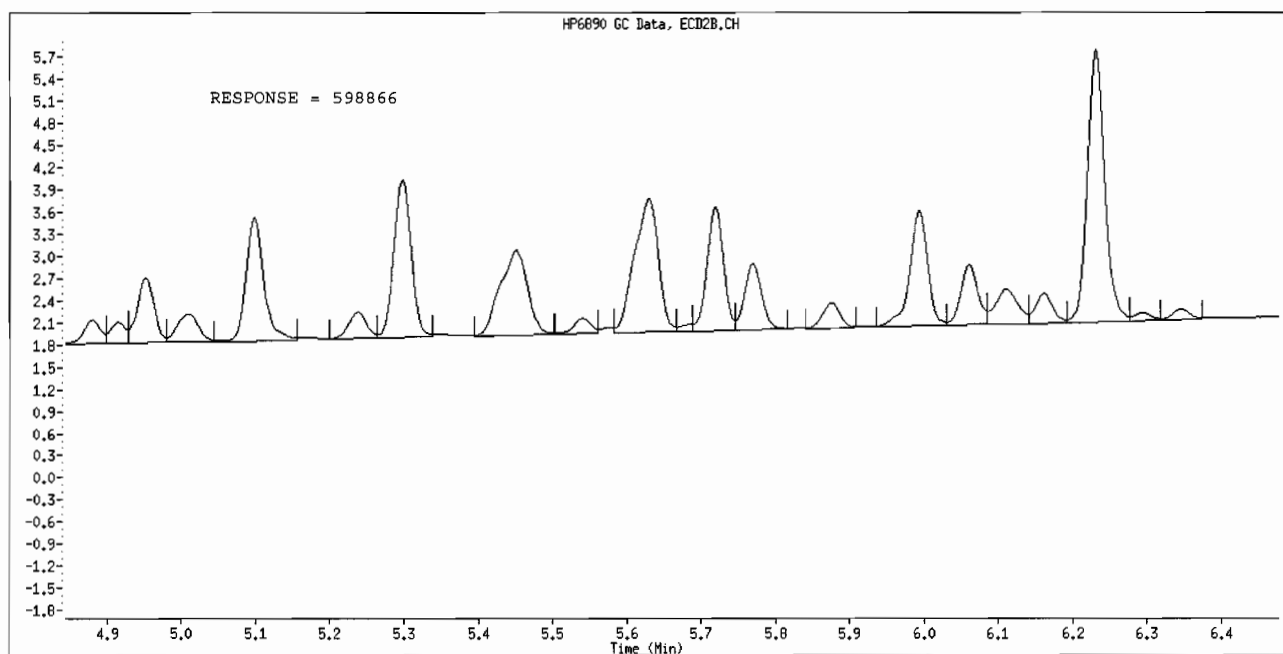
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

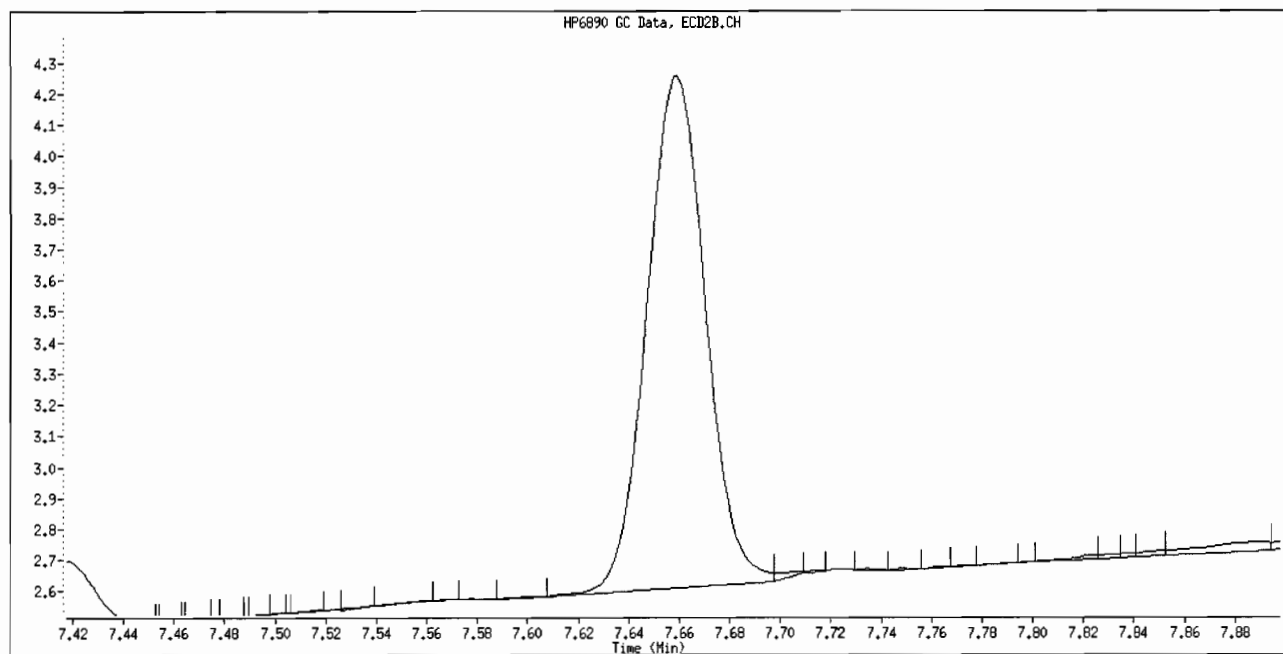
Inj. Date and Time: 16-APR-2010 11:41

Instrument ID: Gcp.i

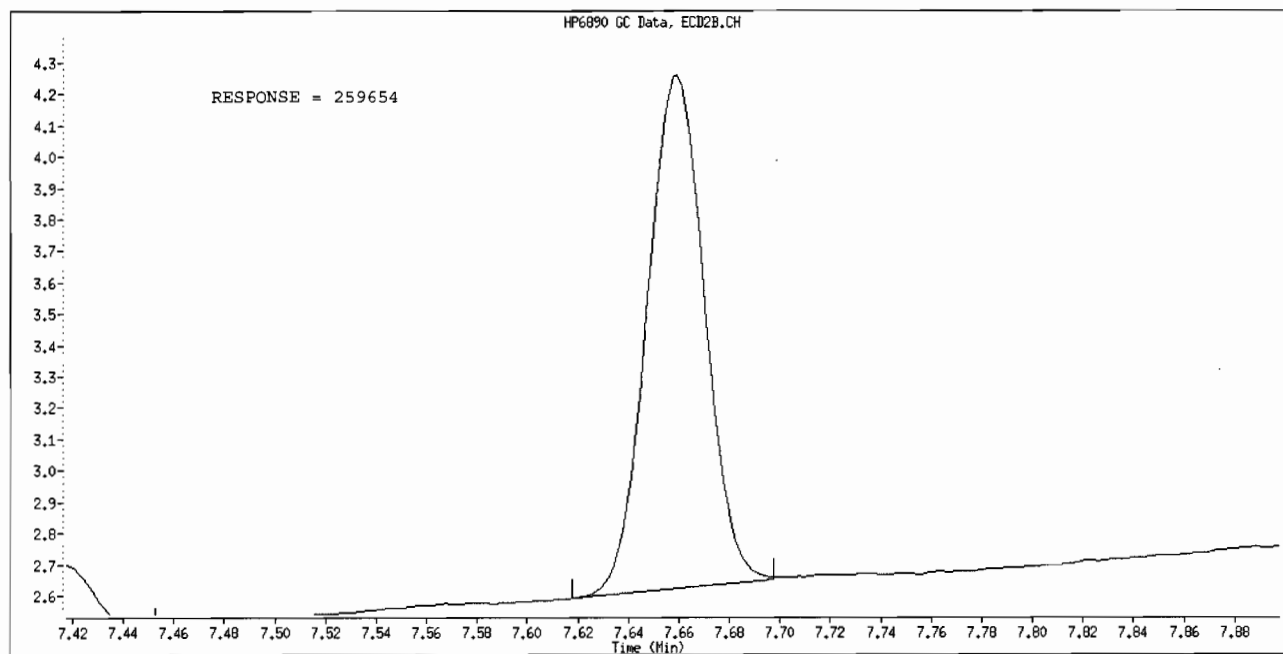
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL306.D  
 Report Date: 17-Apr-2010 11:30

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL306.D  
 Lab Smp Id: ICAL-2  
 Inj Date : 16-APR-2010 12:00  
 Operator : DEK  
 Smp Info : ICAL-2  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 2  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22 Aroclor-1016			CAS #: 12674-11-2				
2.536	2.537	-0.001	225875 100.000	116.6	80.00- 120.00	100.00 (M)	
2.906	2.909	-0.003	457054 100.000	118.3	41.14- 370.29	202.35	
3.335	3.336	-0.001	798938 100.000	106.2	80.09- 720.81	353.71	
3.461	3.462	-0.001	361355 100.000	112.0	33.53- 301.77	159.98	
3.903	3.906	-0.003	264758 100.000	108.9	25.45- 229.06	117.21	
Average of Peak Amounts =			112.400				

28 Aroclor-1260			CAS #: 11096-82-5				
5.100	5.101	-0.001	496775 100.000	108.4	80.00- 120.00	100.00 (M)	
5.298	5.299	-0.001	606379 100.000	107.8	24.77- 222.90	122.06	
5.630	5.631	-0.001	752905 100.000	105.5	31.66- 284.90	151.56	
5.993	5.994	-0.001	483956 100.000	106.5	20.03- 180.27	97.42	
6.230	6.231	-0.001	1110425 100.000	101.7	49.35- 444.19	223.53	
Average of Peak Amounts =			105.980				

\$ 32 Decachlorobiphenyl			CAS #:				
7.660	7.659	0.001	483651 5.00000	5.660		(M)	

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL306.D  
Report Date: 17-Apr-2010 11:30

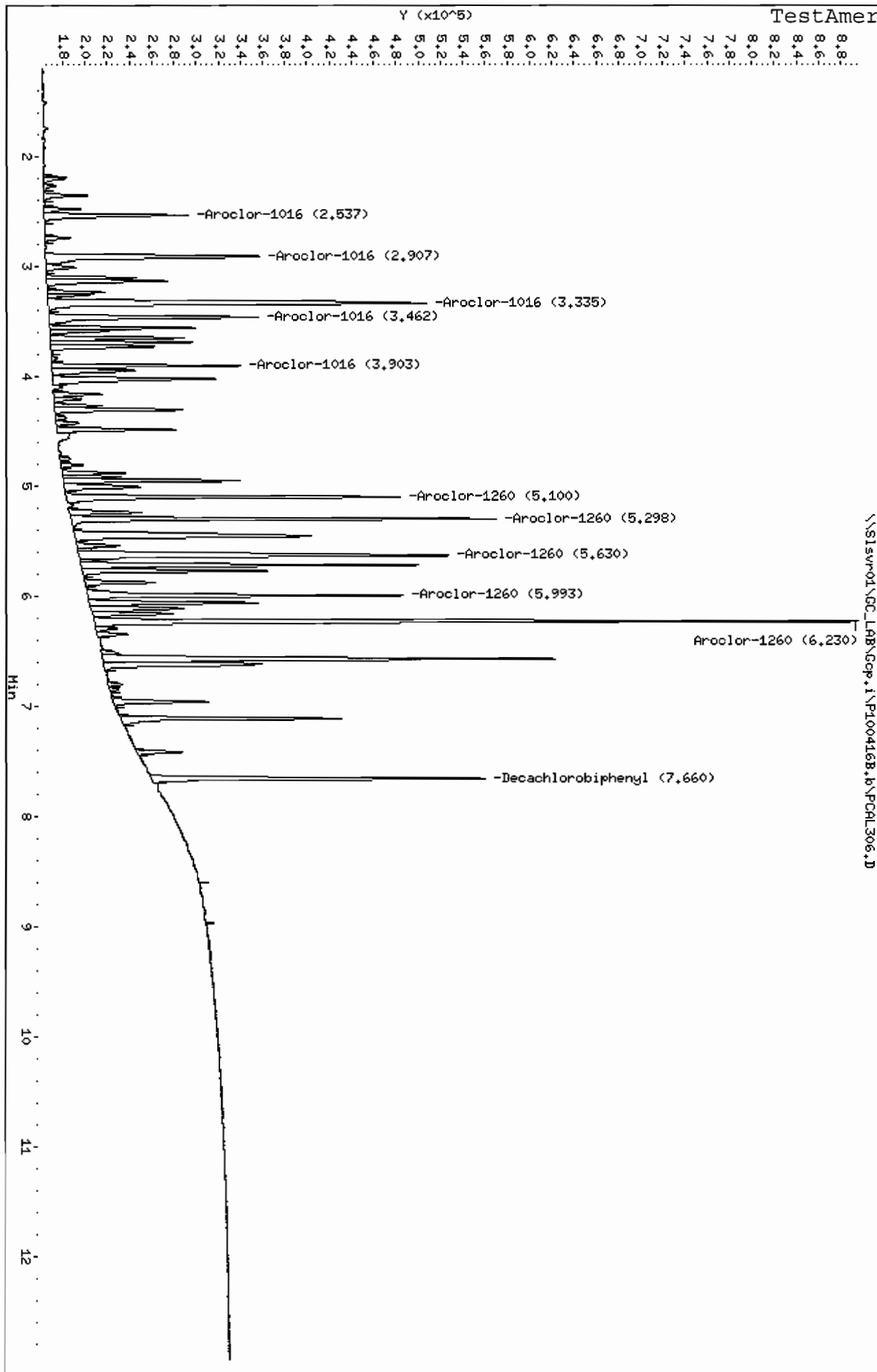
QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\DC\_LAB\Gcp.1\P100416B.b\PCAL306.D  
Date: 16-APR-2010 12:00  
Client ID:  
Sample Info: ICAL-2  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53

Page 1



Data File Name: PCAL306.D

TestAmerica St. Louis

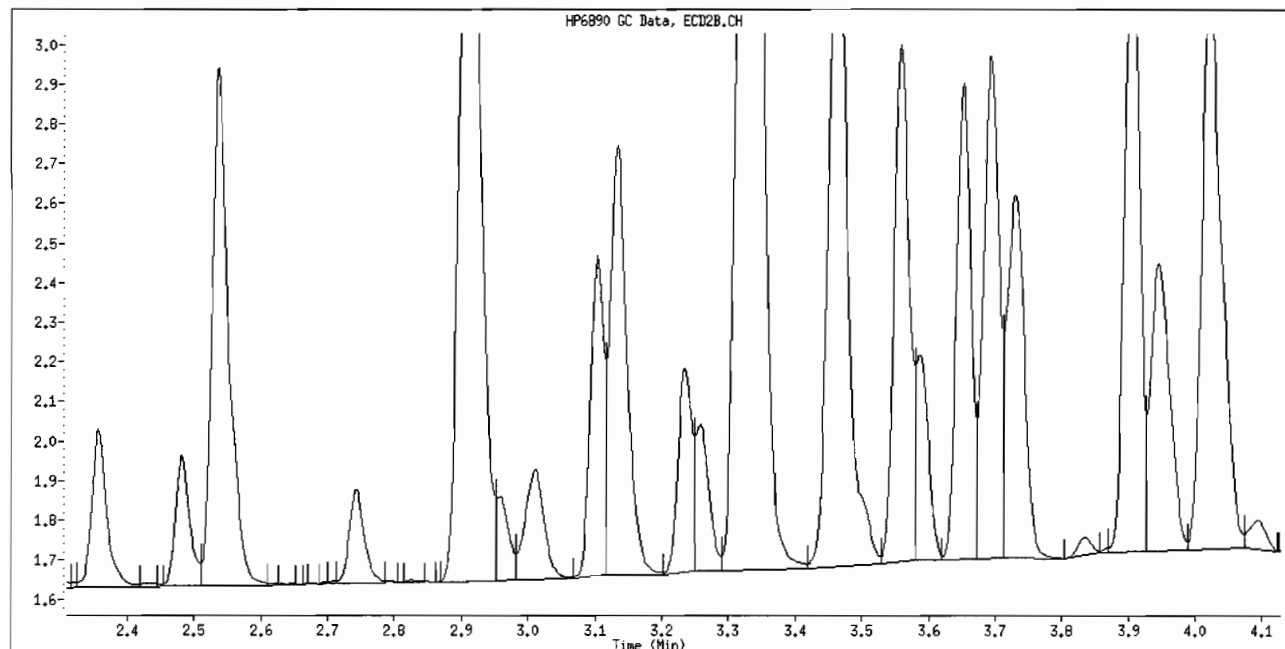
Inj. Date and Time: 16-APR-2010 12:00

Instrument ID: Gcp.i

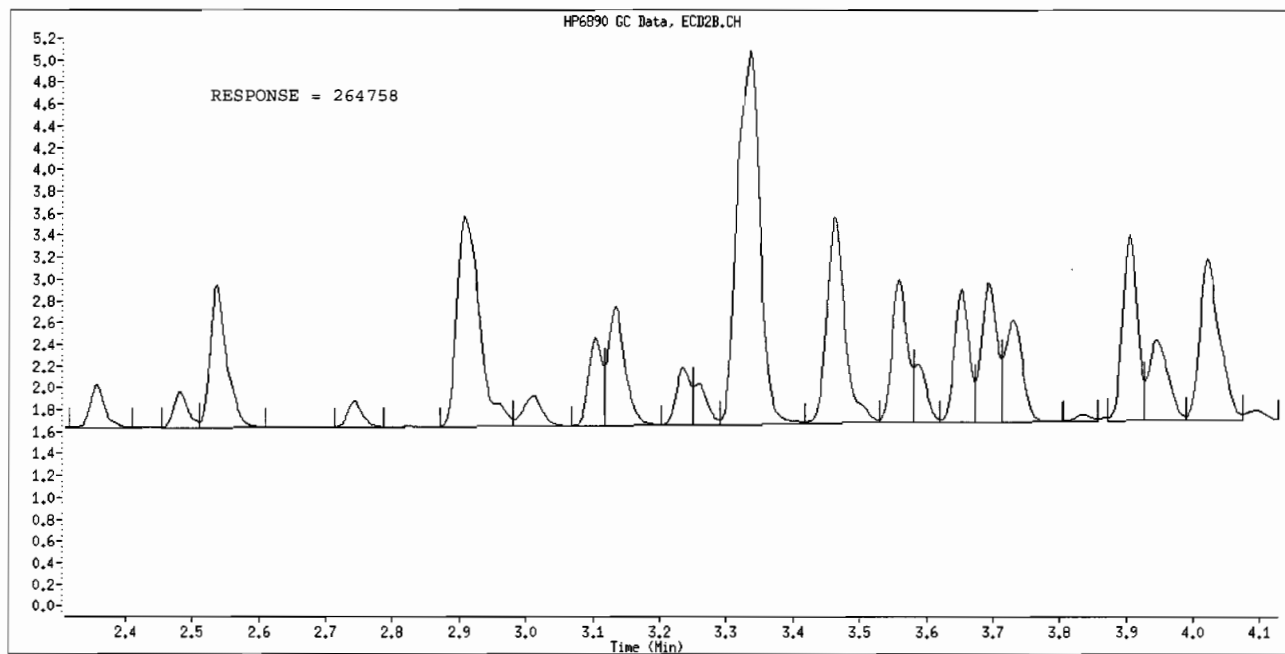
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

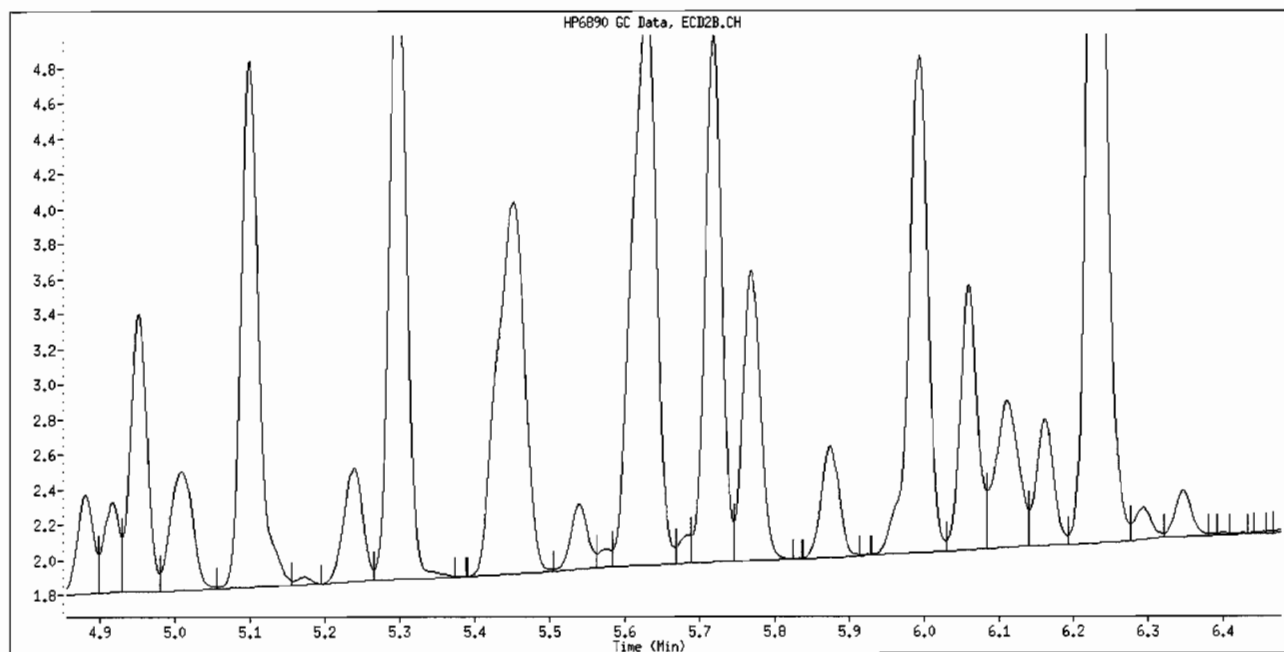
Inj. Date and Time: 16-APR-2010 12:00

Instrument ID: Gcp.i

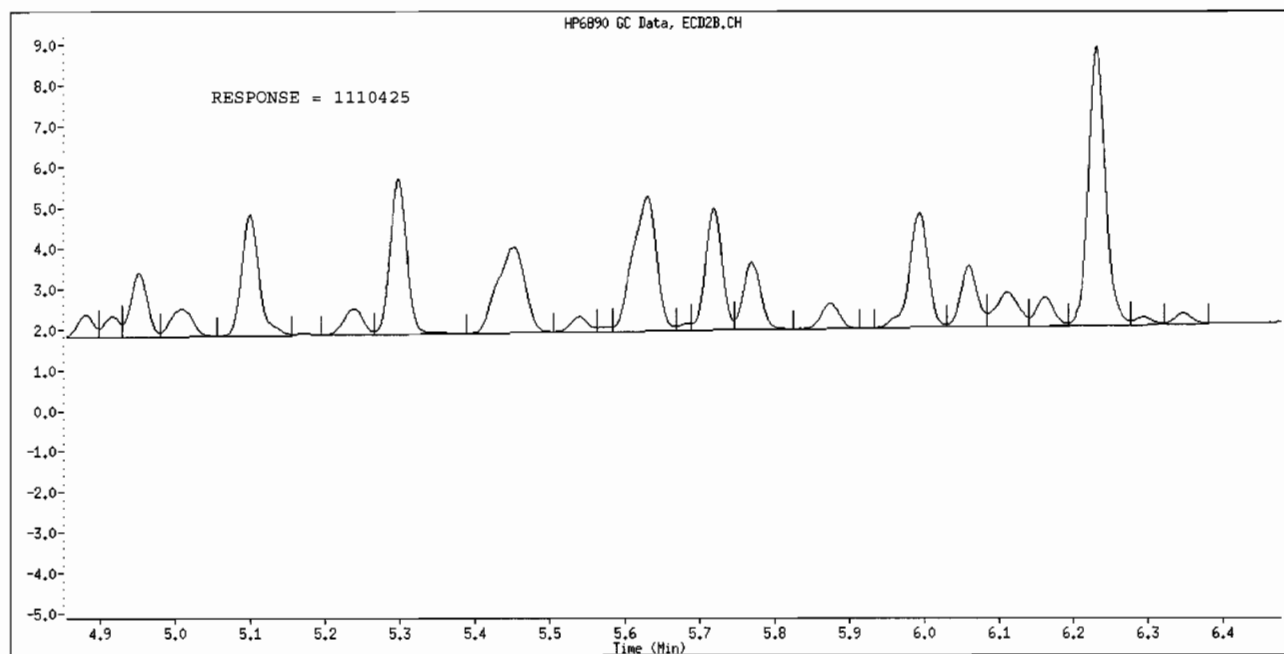
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL306.D

TestAmerica St. Louis

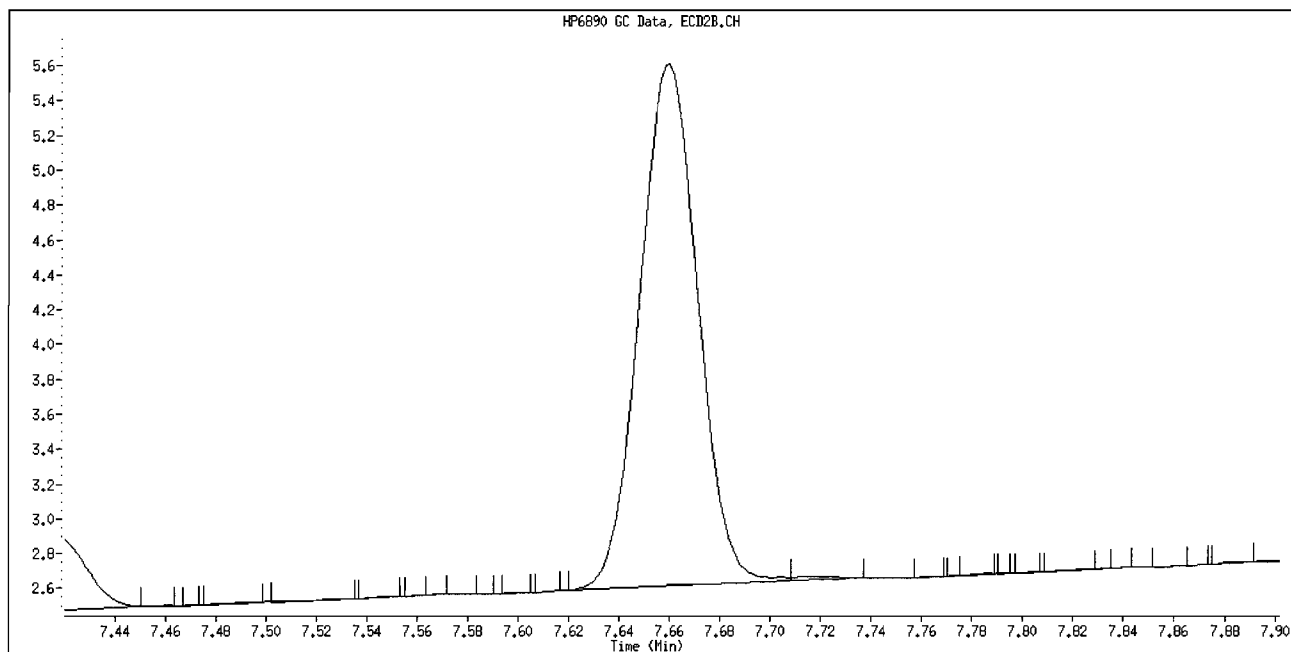
Inj. Date and Time: 16-APR-2010 12:00

Instrument ID: Gcp.i

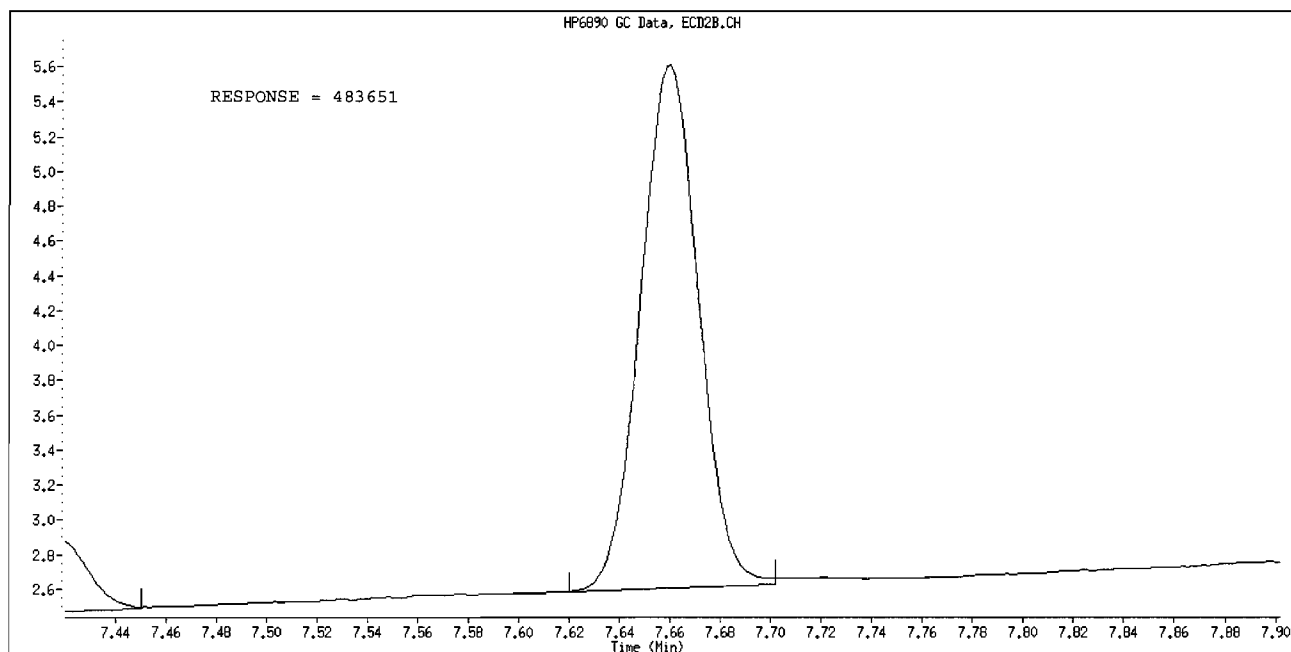
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL307.D  
 Report Date: 17-Apr-2010 11:30

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL307.D  
 Lab Smp Id: ICAL-3  
 Inj Date : 16-APR-2010 12:19  
 Operator : DEK  
 Smp Info : ICAL-3  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 3  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22							
Aroclor-1016			CAS #: 12674-11-2				
2.535	2.537	-0.002	421188	200.000	217.4	80.00- 120.00	100.00 (M)
2.907	2.909	-0.002	809917	200.000	209.6	41.14- 370.29	192.29
3.335	3.336	-0.001	1555313	200.000	206.7	80.09- 720.81	369.27
3.462	3.462	0.000	686397	200.000	212.8	33.53- 301.77	162.97
3.904	3.906	-0.002	517271	200.000	212.8	25.45- 229.06	122.81
Average of Peak Amounts =			211.860				

28 Aroclor-1260			CAS #: 11096-82-5				
5.099	5.101	-0.002	954818	200.000	208.4	80.00- 120.00	100.00 (M)
5.297	5.299	-0.002	1158602	200.000	206.1	24.77- 222.90	121.34
5.630	5.631	-0.001	1462776	200.000	205.0	31.66- 284.90	153.20
5.994	5.994	0.000	940289	200.000	206.8	20.03- 180.27	98.48
6.229	6.231	-0.002	2191922	200.000	200.8	49.35- 444.19	229.56
Average of Peak Amounts =			205.420				

\$ 32 Decachlorobiphenyl			CAS #:				
7.659	7.659	0.000	944703	12.5000	11.06		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL307.D  
Report Date: 17-Apr-2010 11:30

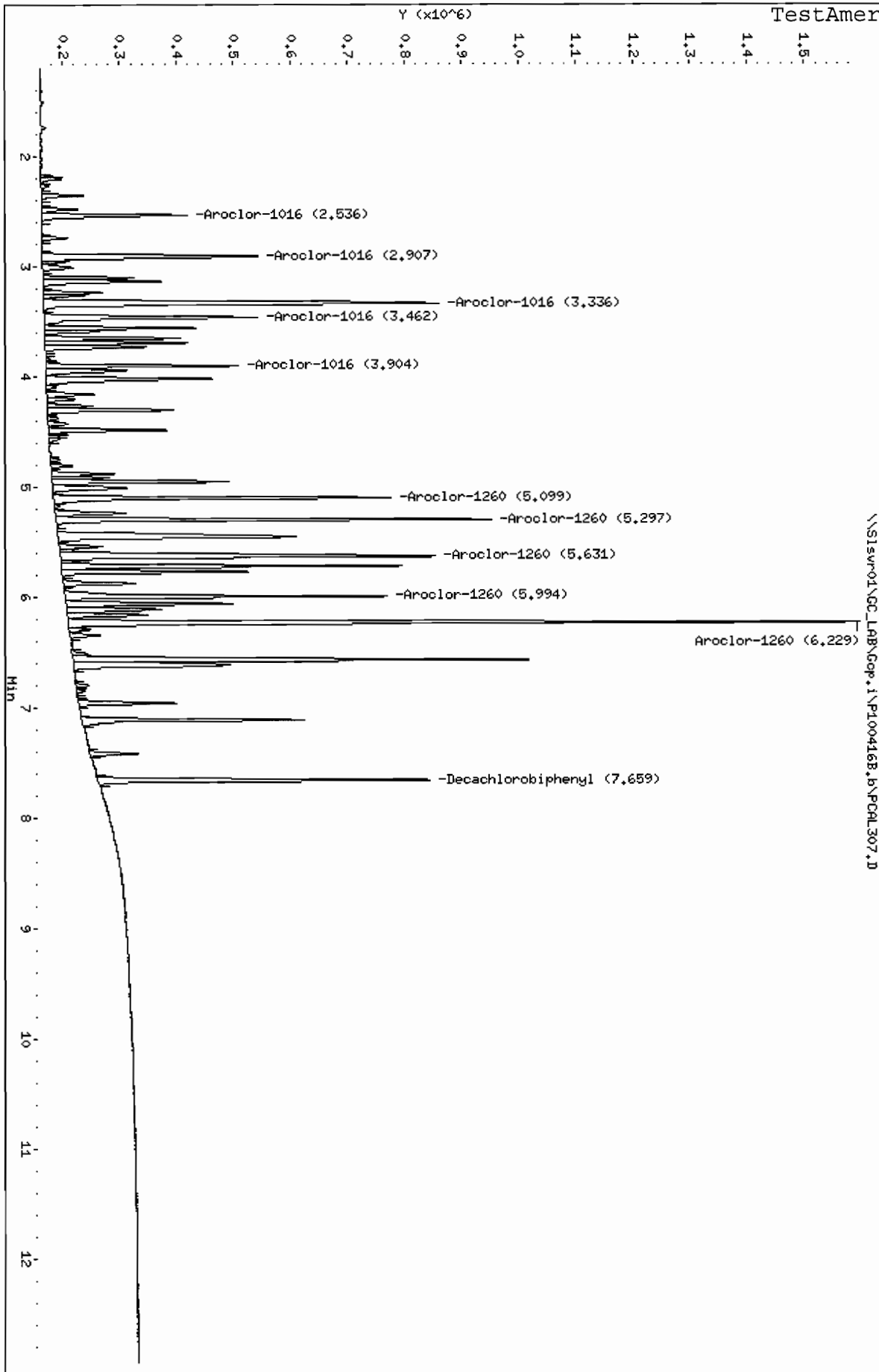
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gcp.1\PI00416B.b\PCAL307.D  
Date: 16-APR-2010 12:19  
Client ID:  
Sample Info: ICAL-3  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL307.D

TestAmerica St. Louis

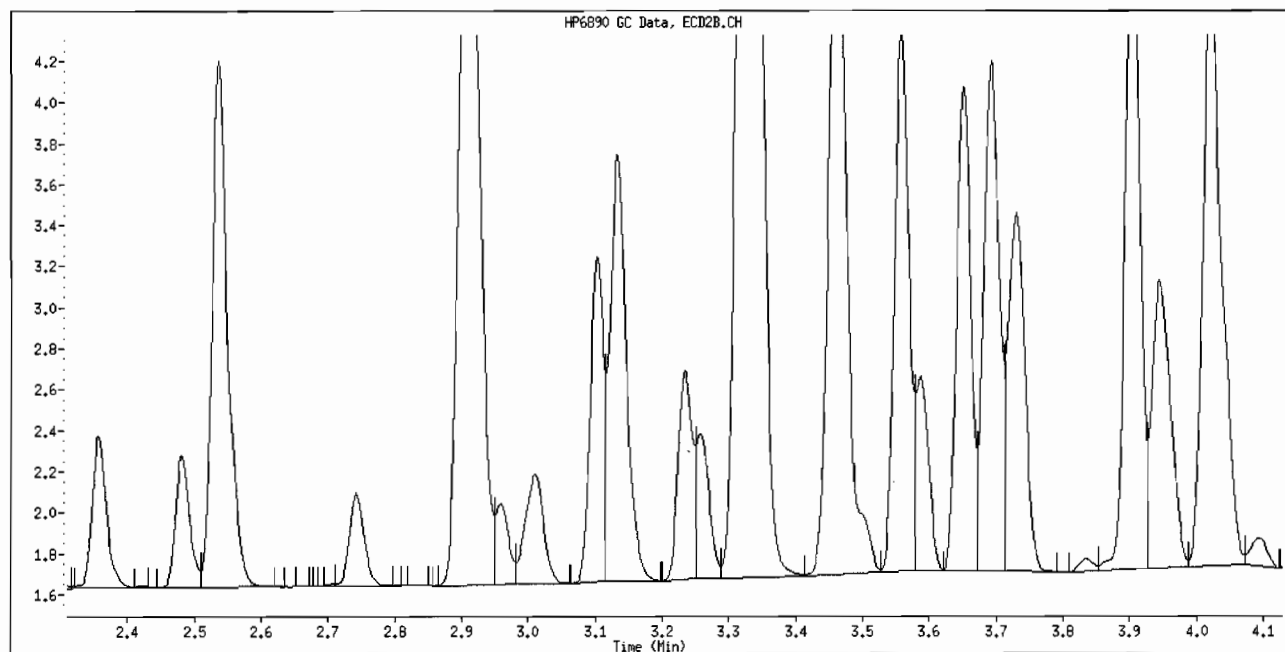
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

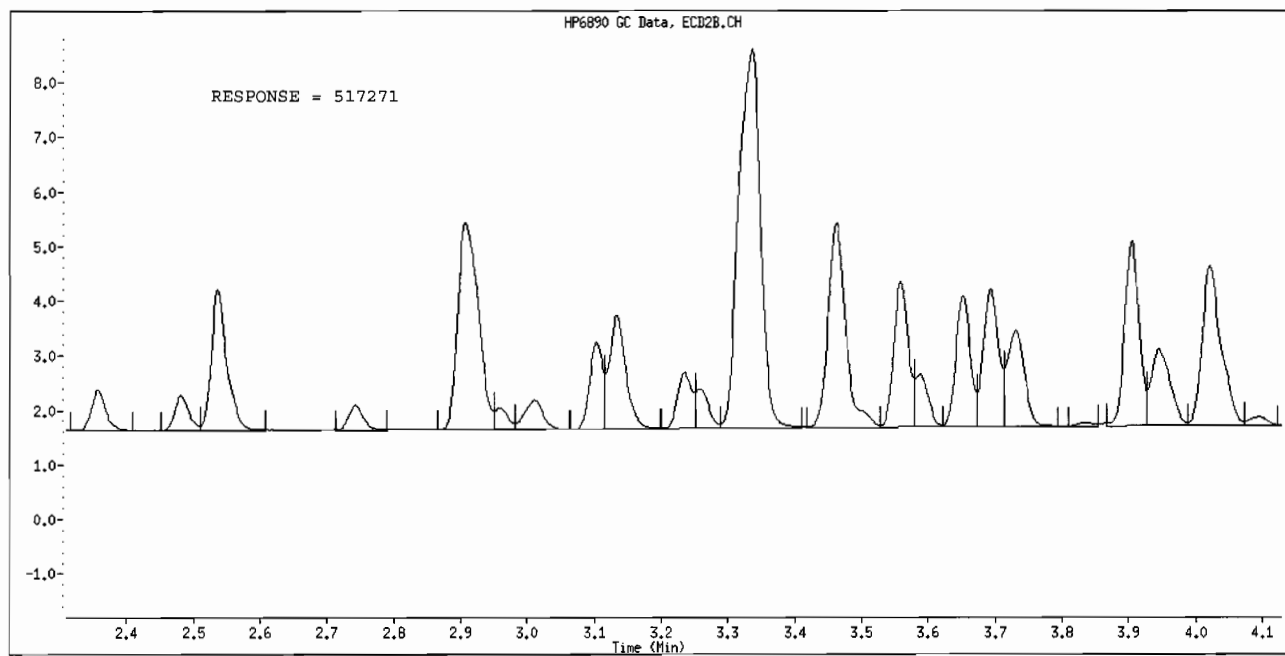
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL307.D

TestAmerica St. Louis

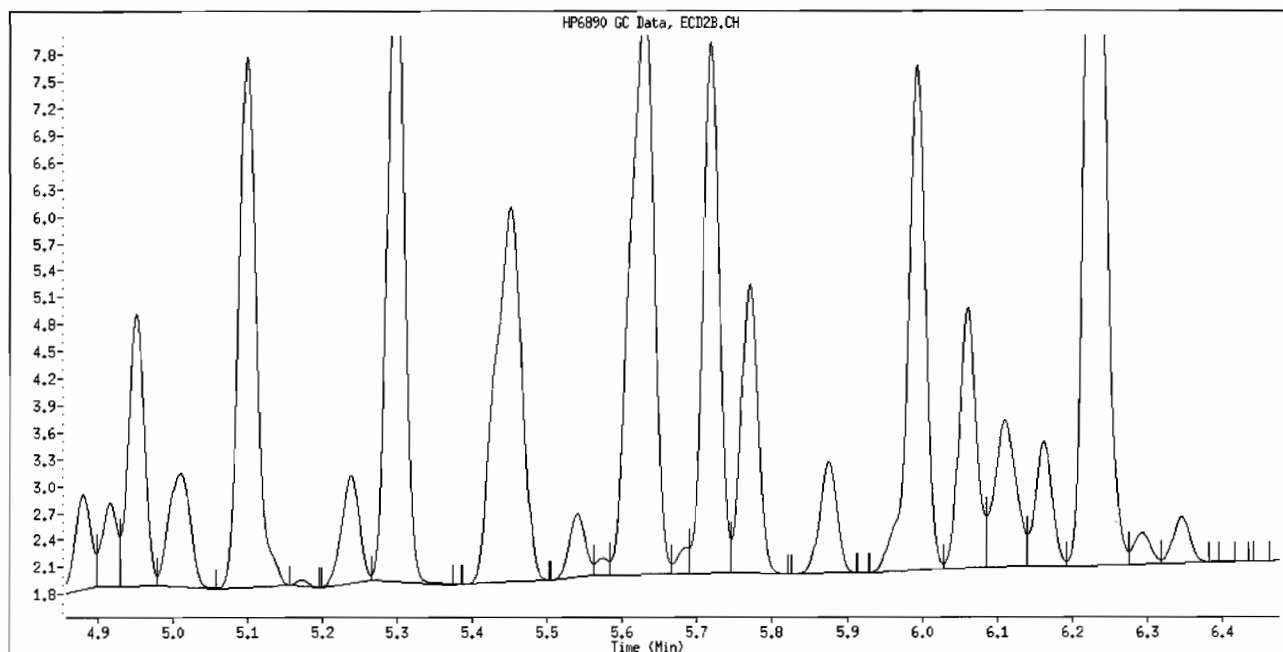
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

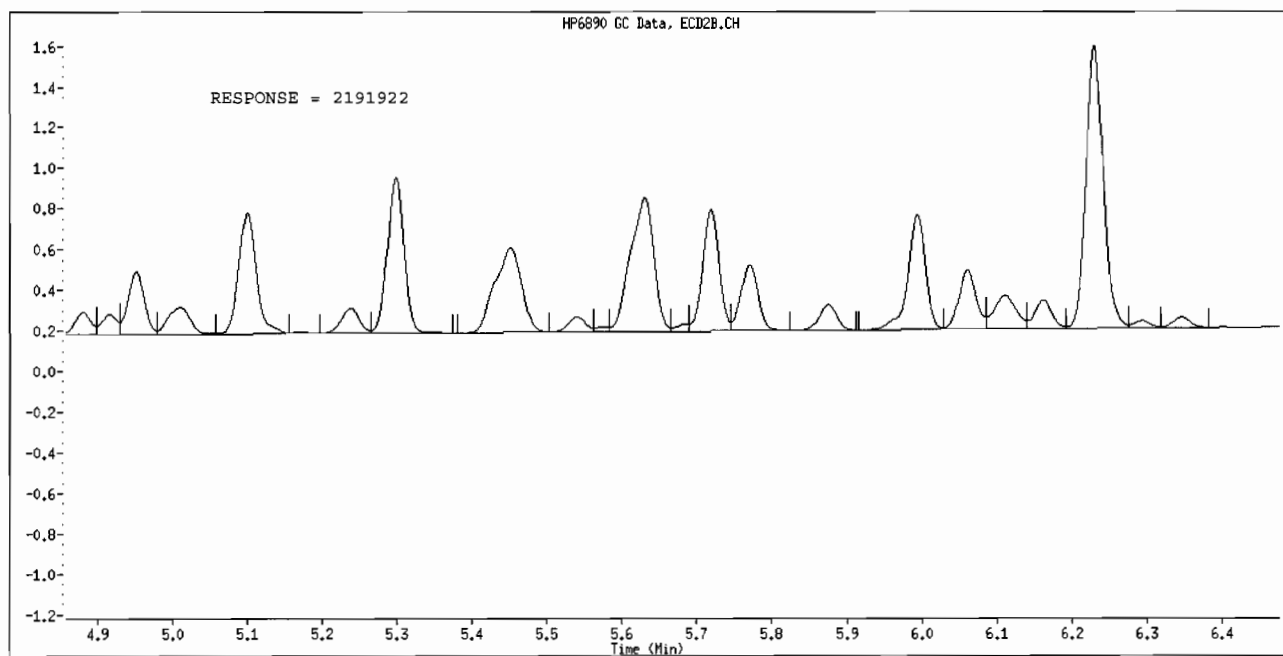
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL307.D

TestAmerica St. Louis

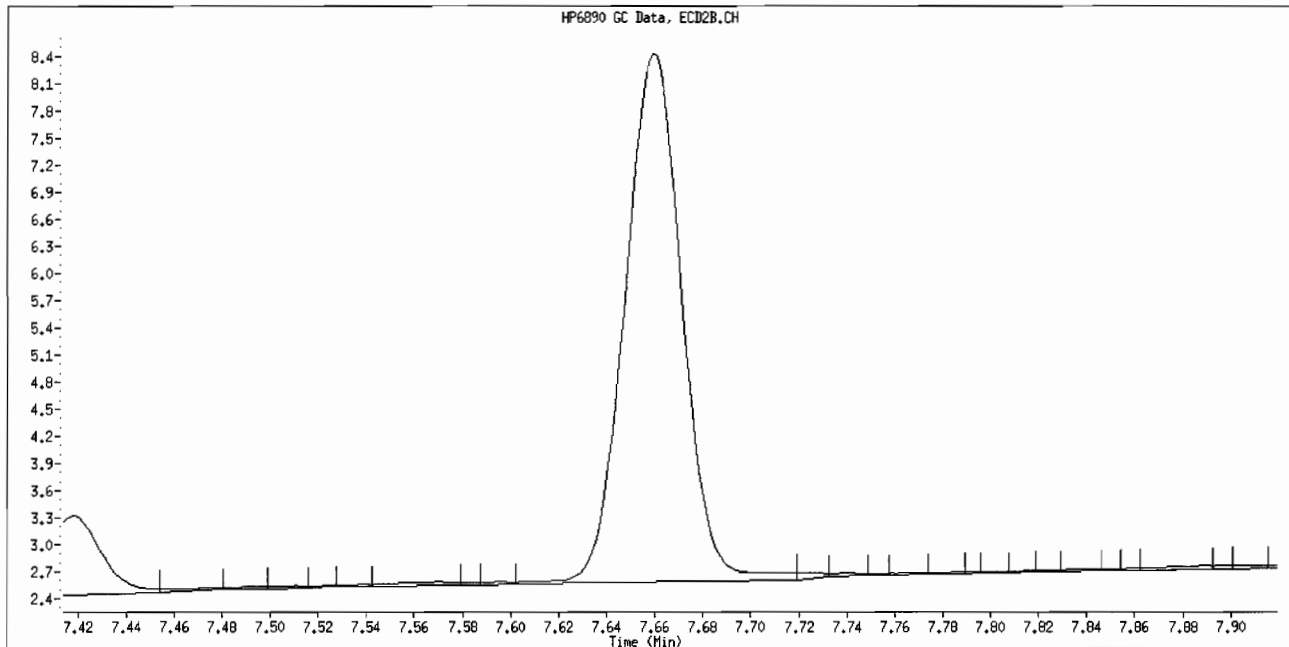
Inj. Date and Time: 16-APR-2010 12:19

Instrument ID: Gcp.i

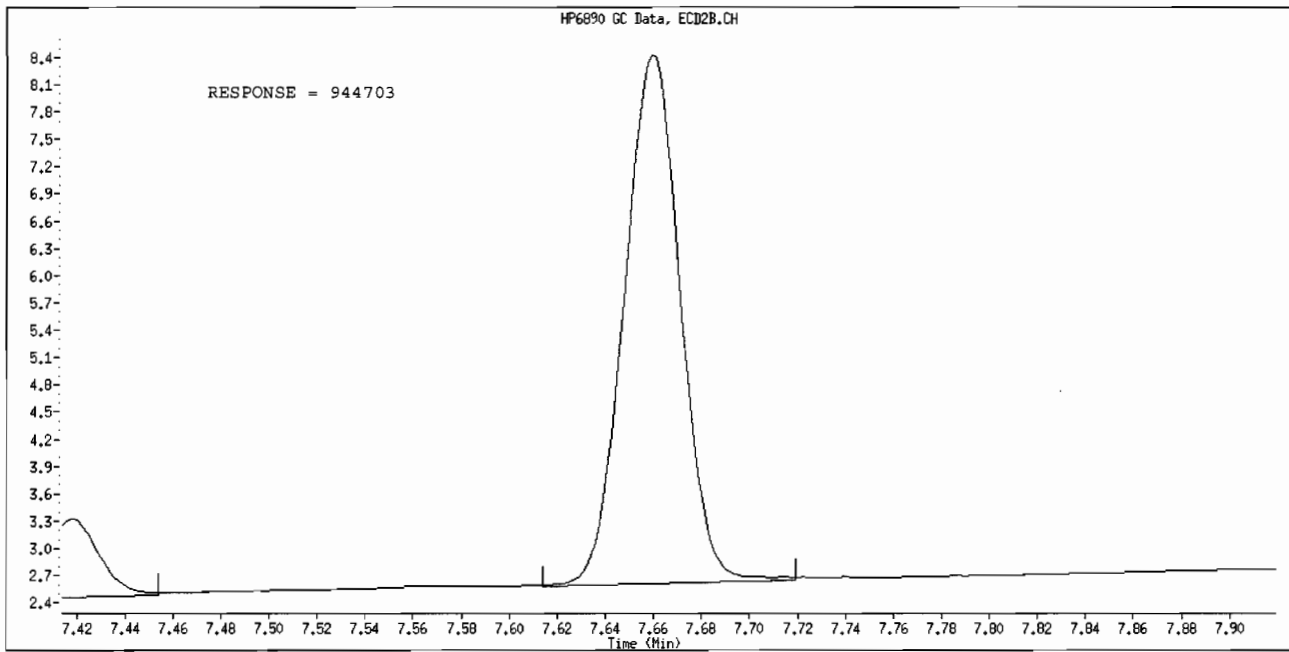
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC LAB\Gcp.i\P100416B.b\PCAL308.D  
 Report Date: 17-Apr-2010 11:30

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TestAmerica St. Louis

Data file : \\Slsvr01\GC LAB\Gcp.i\P100416B.b\PCAL308.D  
 Lab Smp Id: ICAL-4  
 Inj Date : 16-APR-2010 12:38  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-4  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.536	2.537	-0.001	969721 500.000	500.5	80.00- 120.00	100.00 (M)
2.906	2.909	-0.003	1892020 500.000	489.7	41.14- 370.29	195.11
3.334	3.336	-0.002	3758778 500.000	499.4	80.09- 720.81	387.61
3.461	3.462	-0.001	1608256 500.000	498.7	33.53- 301.77	165.85
3.903	3.906	-0.003	1223500 500.000	503.3	25.45- 229.06	126.17
Average of Peak Amounts =			498.320			

28 Aroclor-1260			CAS #: 11096-82-5			
5.099	5.101	-0.002	2292160 500.000	500.4	80.00- 120.00	100.00 (M)
5.298	5.299	-0.001	2785052 500.000	495.4	24.77- 222.90	121.50
5.631	5.631	0.000	3552073 500.000	497.9	31.66- 284.90	154.97
5.993	5.994	-0.001	2272551 500.000	499.9	20.03- 180.27	99.14
6.229	6.231	-0.002	5429427 500.000	497.4	49.35- 444.19	236.87
Average of Peak Amounts =			498.200			

\$ 32 Decachlorobiphenyl			CAS #:			
7.659	7.659	0.000	2222253 25.0000	26.01		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL308.D  
Report Date: 17-Apr-2010 11:30

TestAmerica St. Louis  
Page 2

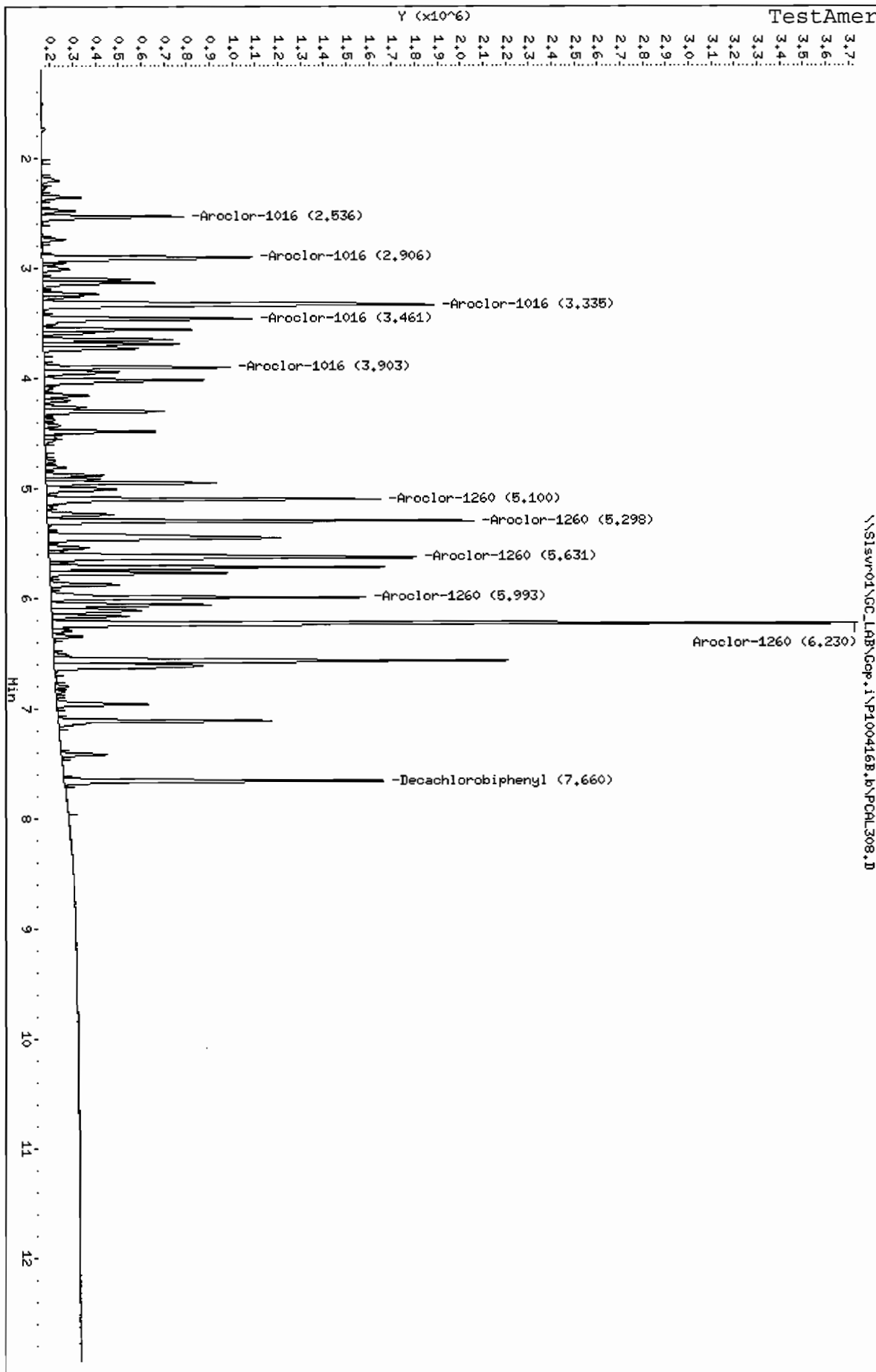
#### QC Flag Legend

M - Compound response manually integrated.



Data File: \\SLSW01\GC\_LAB\Gcp.i\P100416B.b\PCAL308.D  
Date: 16-APR-2010 12:38  
Client ID:  
Sample Info: ICAL-4  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL308.D

TestAmerica St. Louis

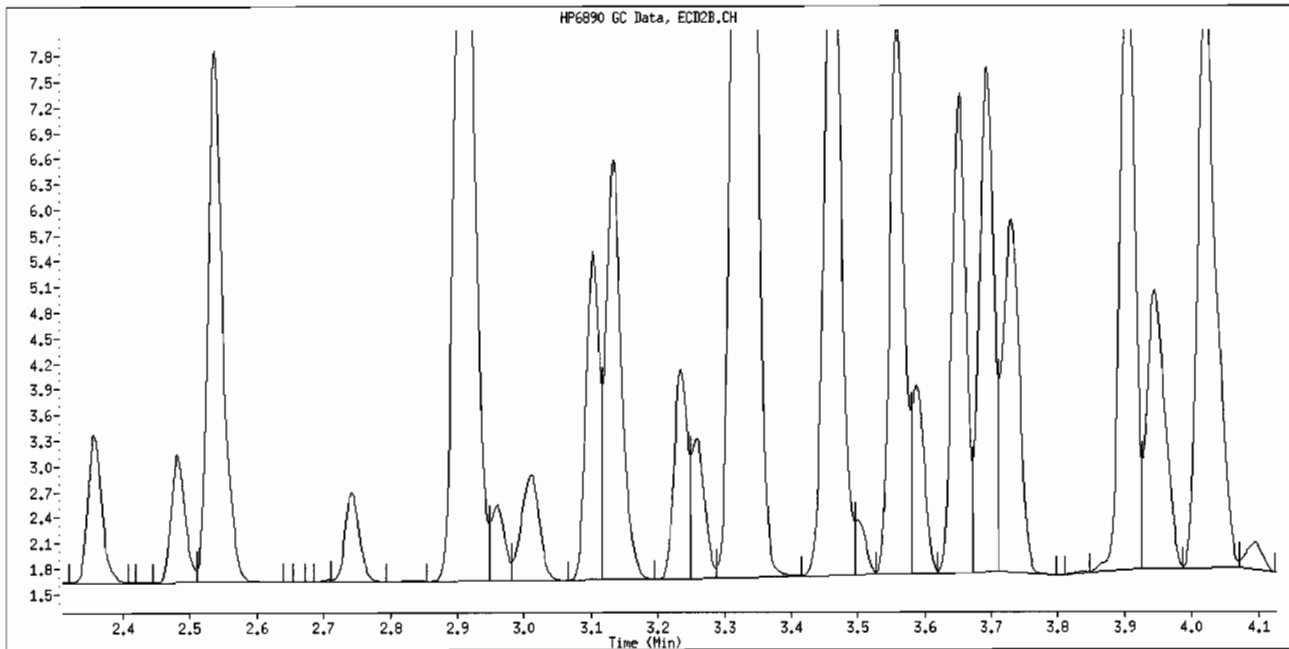
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

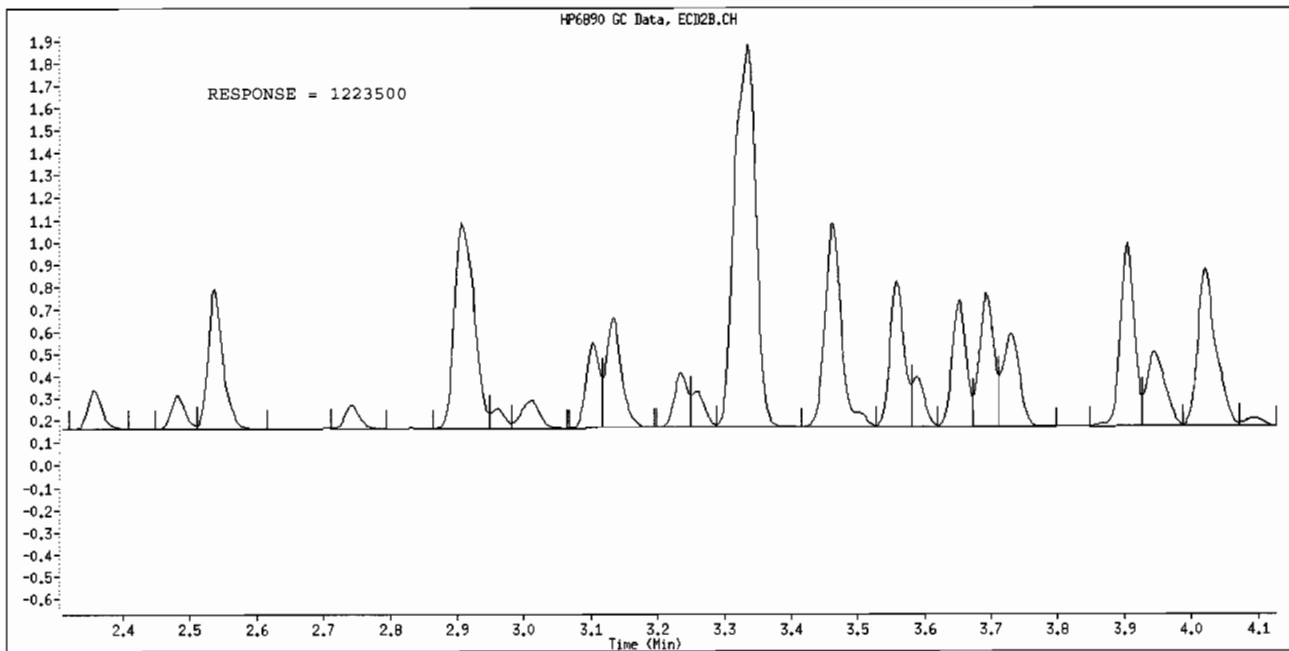
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

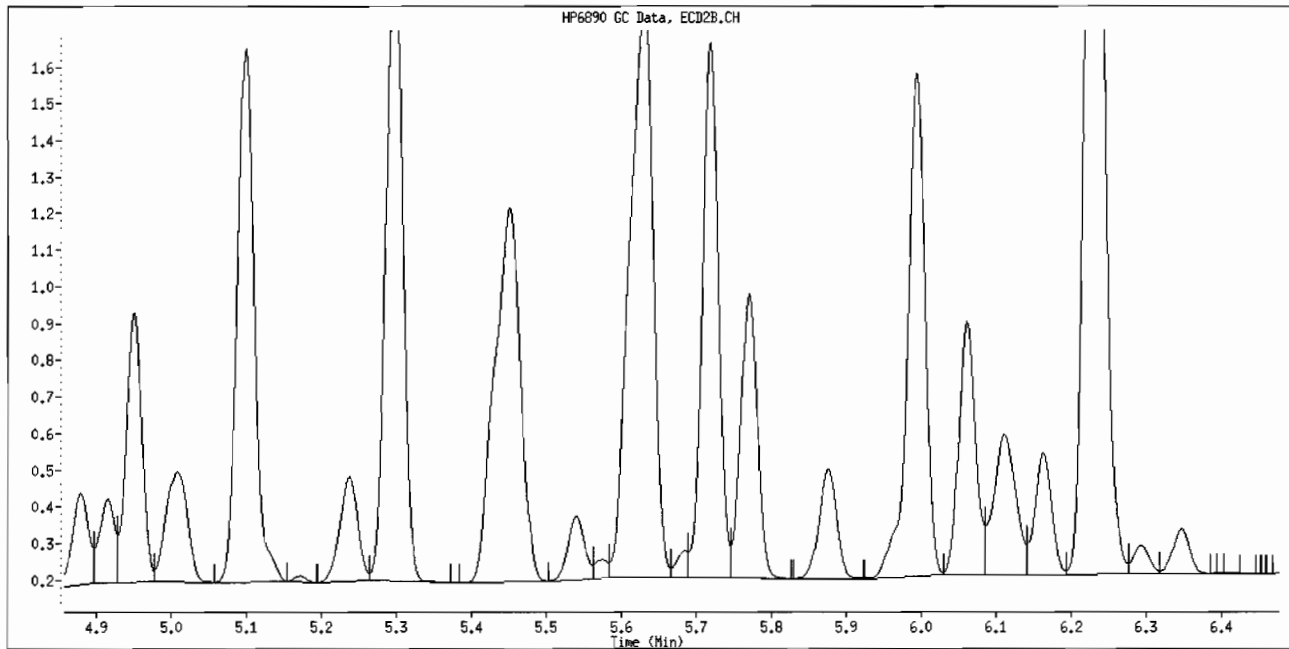
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

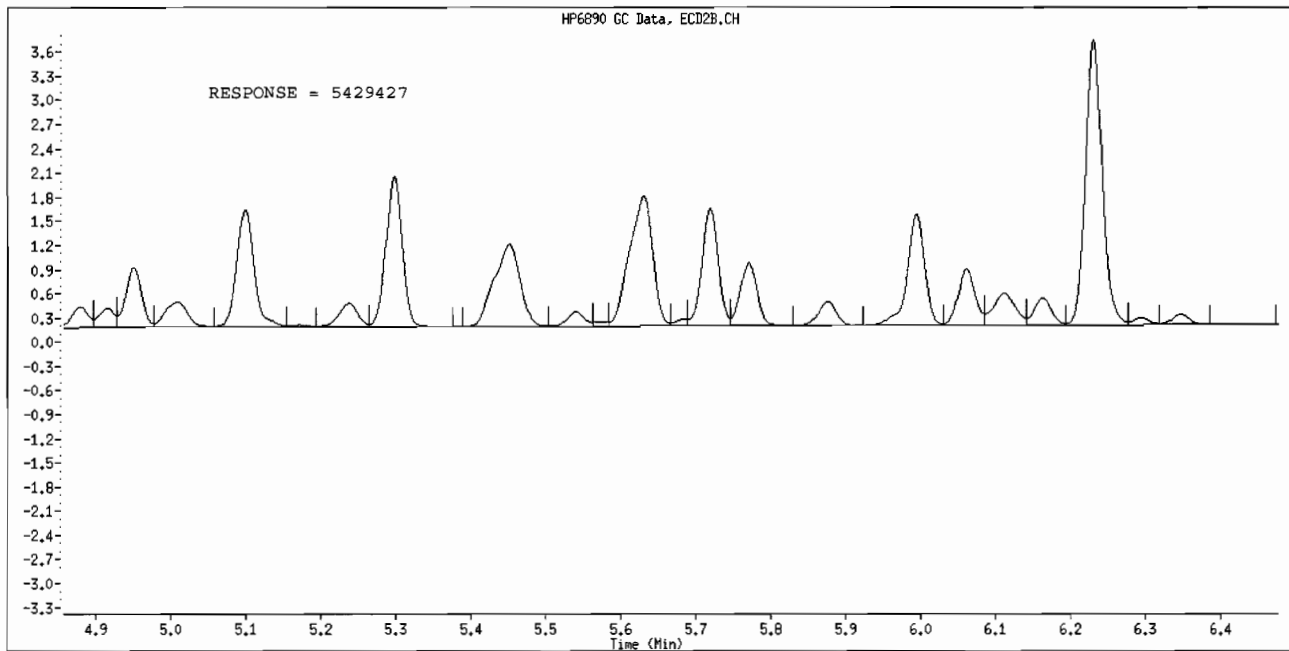
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL308.D

TestAmerica St. Louis

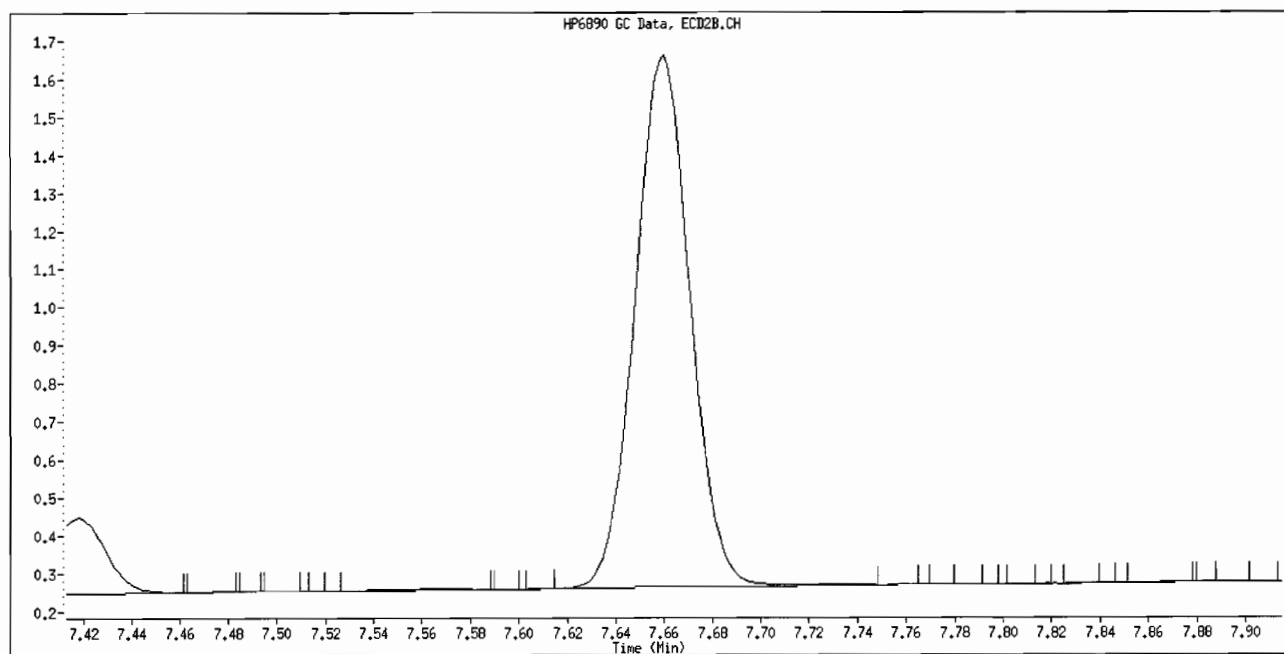
Inj. Date and Time: 16-APR-2010 12:38

Instrument ID: Gcp.i

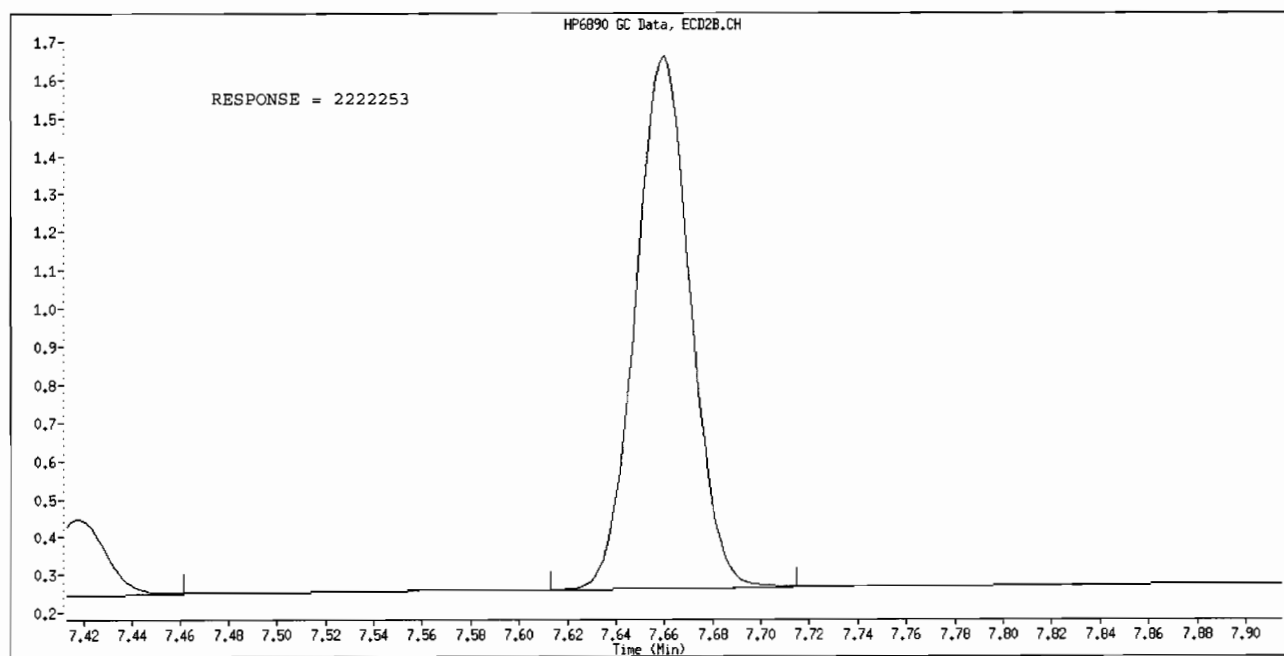
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL309.D  
 Report Date: 17-Apr-2010 11:29

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL309.D  
 Lab Smp Id: ICAL-5  
 Inj Date : 16-APR-2010 12:57  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : ICAL-5  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 7 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.537	0.000	1760806	1000.00	908.8	80.00- 120.00	100.00 (M)
2.909	2.909	0.000	3622304	1000.00	937.5	41.14- 370.29	205.72
3.336	3.336	0.000	7051177	1000.00	936.9	80.09- 720.81	400.45
3.462	3.462	0.000	2951975	1000.00	915.3	33.53- 301.77	167.65
3.906	3.906	0.000	2240710	1000.00	921.8	25.45- 229.06	127.25
Average of Peak Amounts =					924.060		

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.101	0.000	4228099	1000.00	923.0	80.00- 120.00	100.00 (M)
5.299	5.299	0.000	5235745	1000.00	931.2	24.77- 222.90	123.83
5.631	5.631	0.000	6692102	1000.00	938.0	31.66- 284.90	158.28
5.994	5.994	0.000	4234429	1000.00	931.5	20.03- 180.27	100.15
6.231	6.231	0.000	10433875	1000.00	955.9	49.35- 444.19	246.77
Average of Peak Amounts =					935.920		

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	7.659	0.000	4162399	50.0000	48.71		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL309.D  
Report Date: 17-Apr-2010 11:29

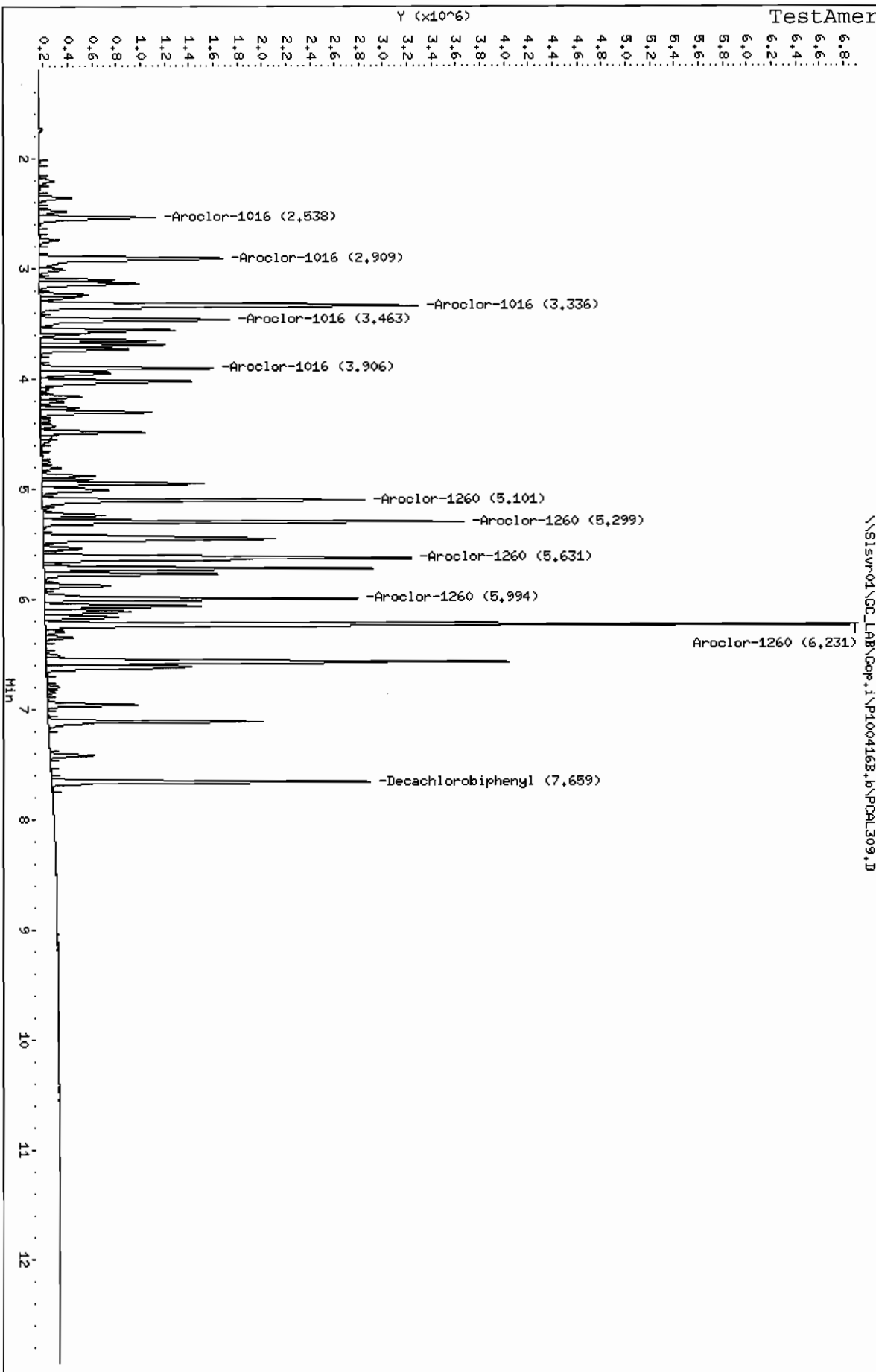
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gcp.1\P100416B.b\PCAL309.D  
Date: 16-APR-2010 12:57  
Client ID:  
Sample Info: ICAL-5  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL309.D

TestAmerica St. Louis

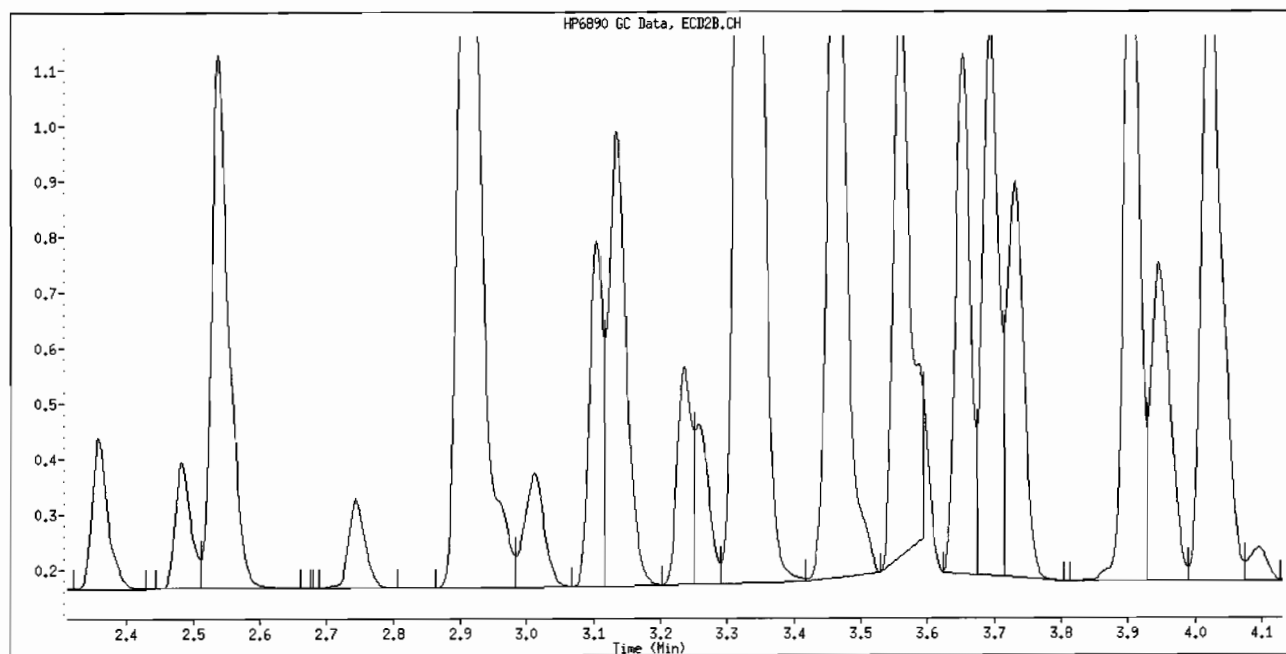
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

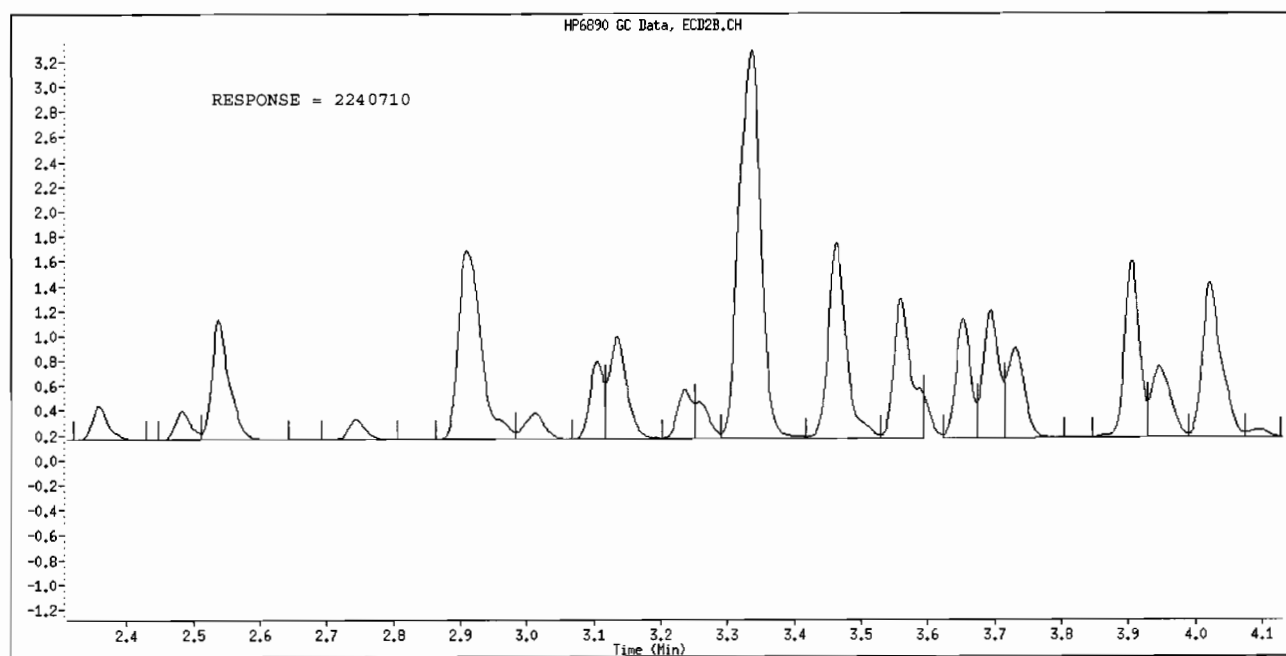
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: PCAL309.D

TestAmerica St. Louis

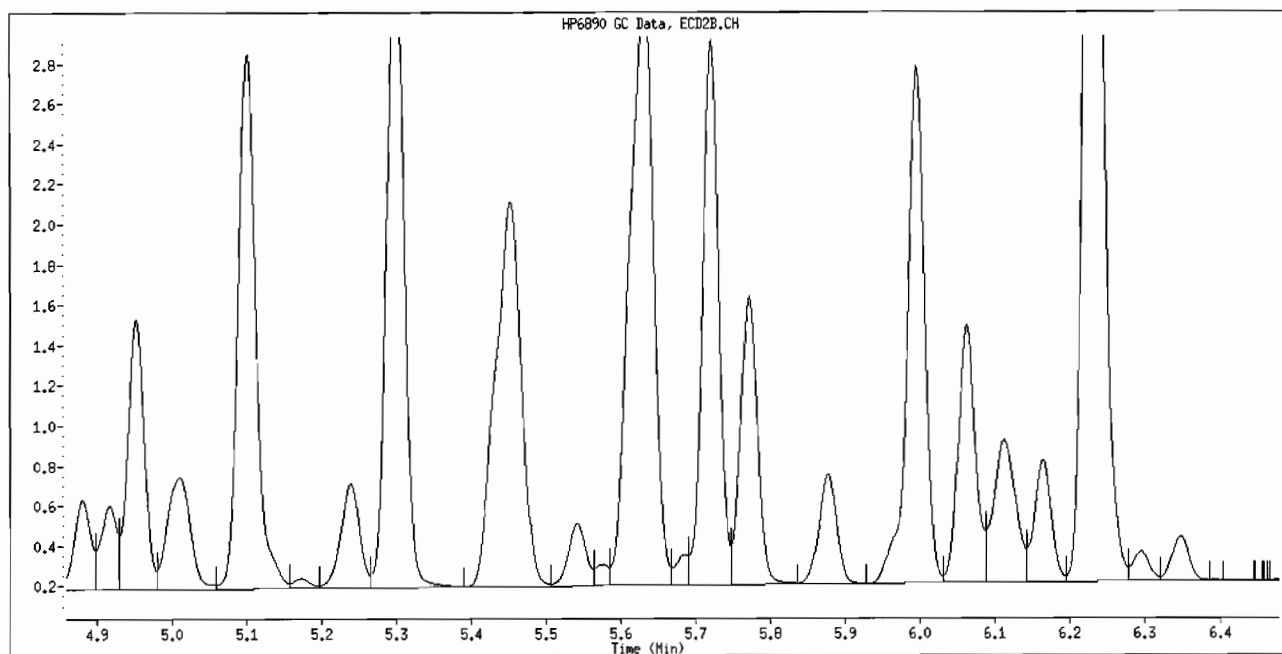
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

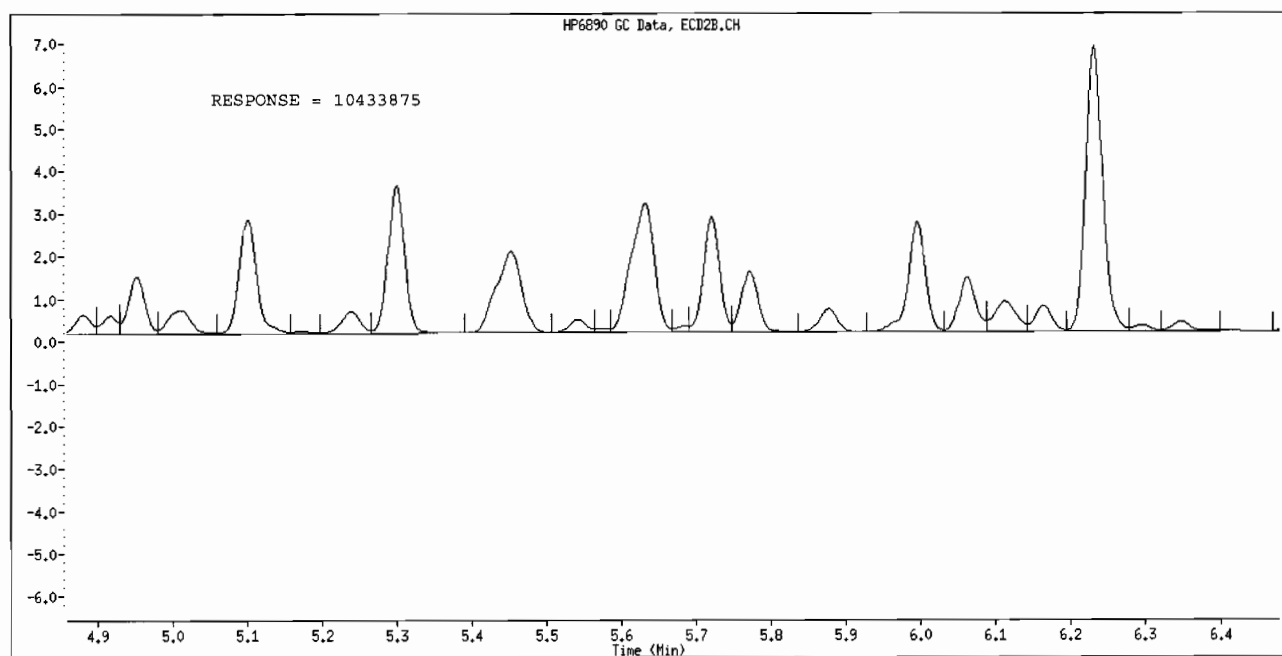
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL309.D

TestAmerica St. Louis

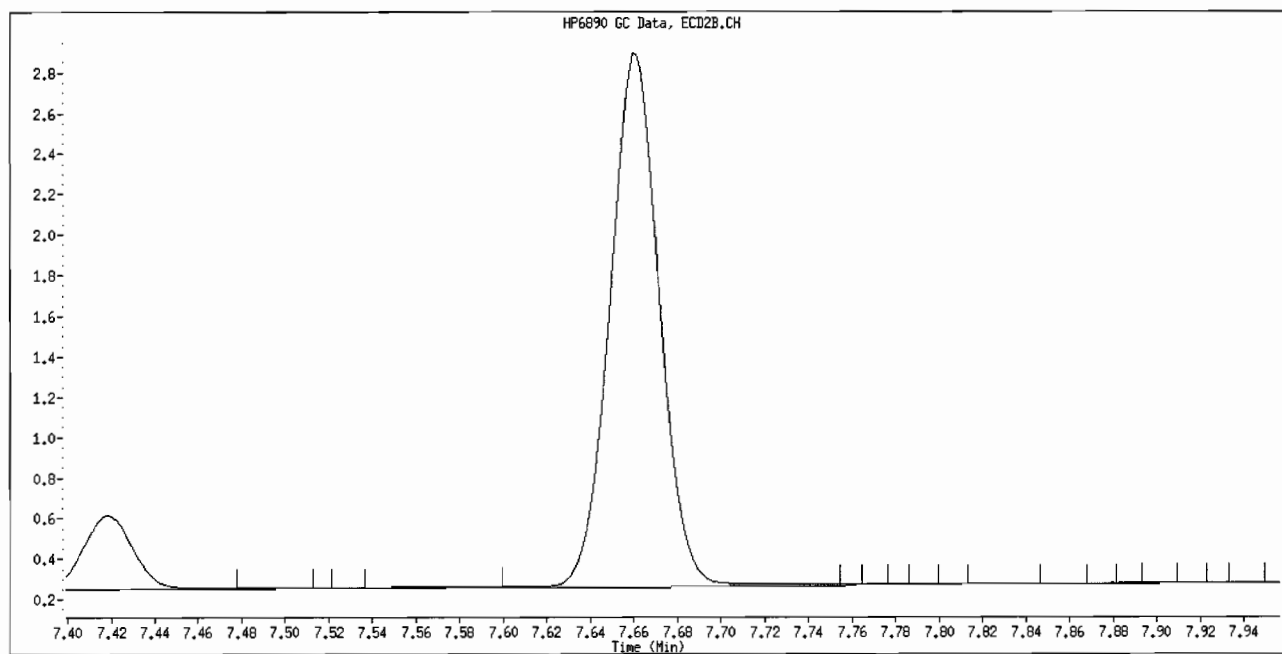
Inj. Date and Time: 16-APR-2010 12:57

Instrument ID: Gcp.i

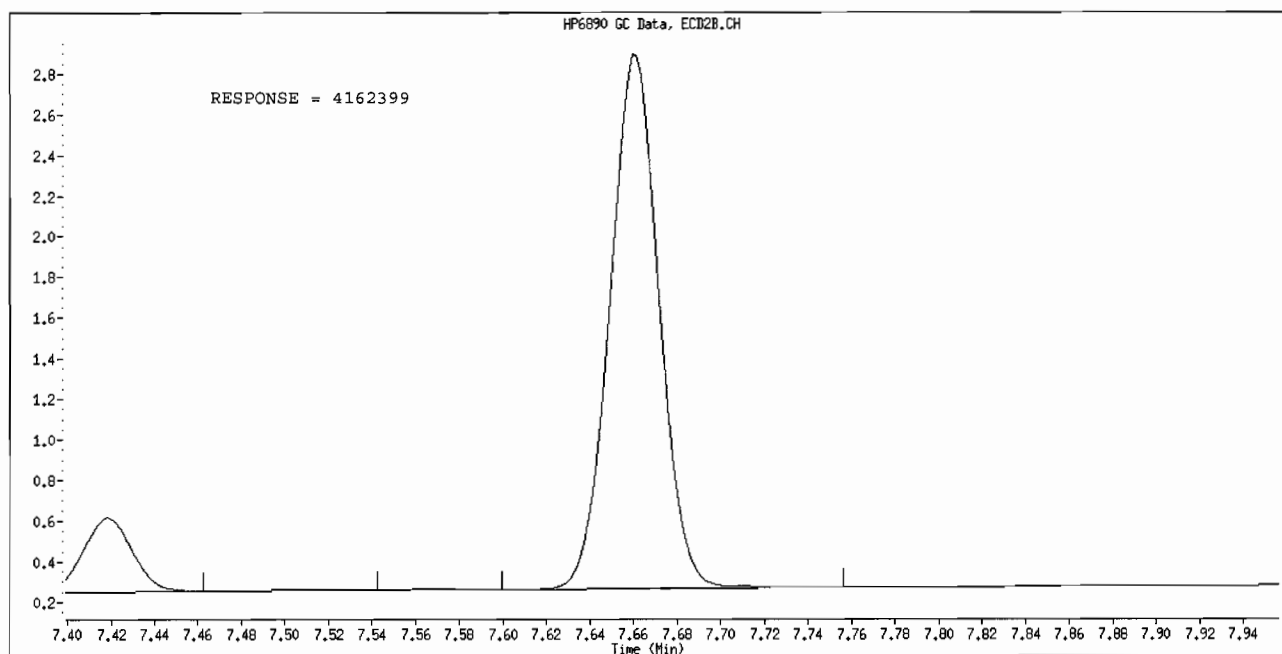
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL310.D  
 Report Date: 17-Apr-2010 11:30

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL310.D  
 Lab Smp Id: ICAL-6  
 Inj Date : 16-APR-2010 13:16  
 Operator : DEK  
 Smp Info : ICAL-6  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 6  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.535	2.537	-0.002	2565690 1498.00	1324	80.00- 120.00	100.00 (M)
2.907	2.909	-0.002	5071499 1498.00	1313	41.14- 370.29	197.67
3.335	3.336	-0.001	10647222 1498.00	1415	80.09- 720.81	414.98
3.462	3.462	0.000	4385266 1498.00	1360	33.53- 301.77	170.92
3.904	3.906	-0.002	3336607 1498.00	1373	25.45- 229.06	130.05
Average of Peak Amounts =			1357.00			

28 Aroclor-1260			CAS #: 11096-82-5			
5.099	5.101	-0.002	6357259 1498.00	1388	80.00- 120.00	100.00 (M)
5.299	5.299	0.000	7877567 1498.00	1401	24.77- 222.90	123.91
5.630	5.631	-0.001	10131912 1498.00	1420	31.66- 284.90	159.38
5.994	5.994	0.000	6396856 1498.00	1407	20.03- 180.27	100.62
6.230	6.231	-0.001	15834188 1498.00	1450	49.35- 444.19	249.07
Average of Peak Amounts =			1413.20			

\$ 32 Decachlorobiphenyl			CAS #:			
7.659	7.659	0.000	6237117 75.0000	72.99		(MH)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL310.D  
Report Date: 17-Apr-2010 11:30

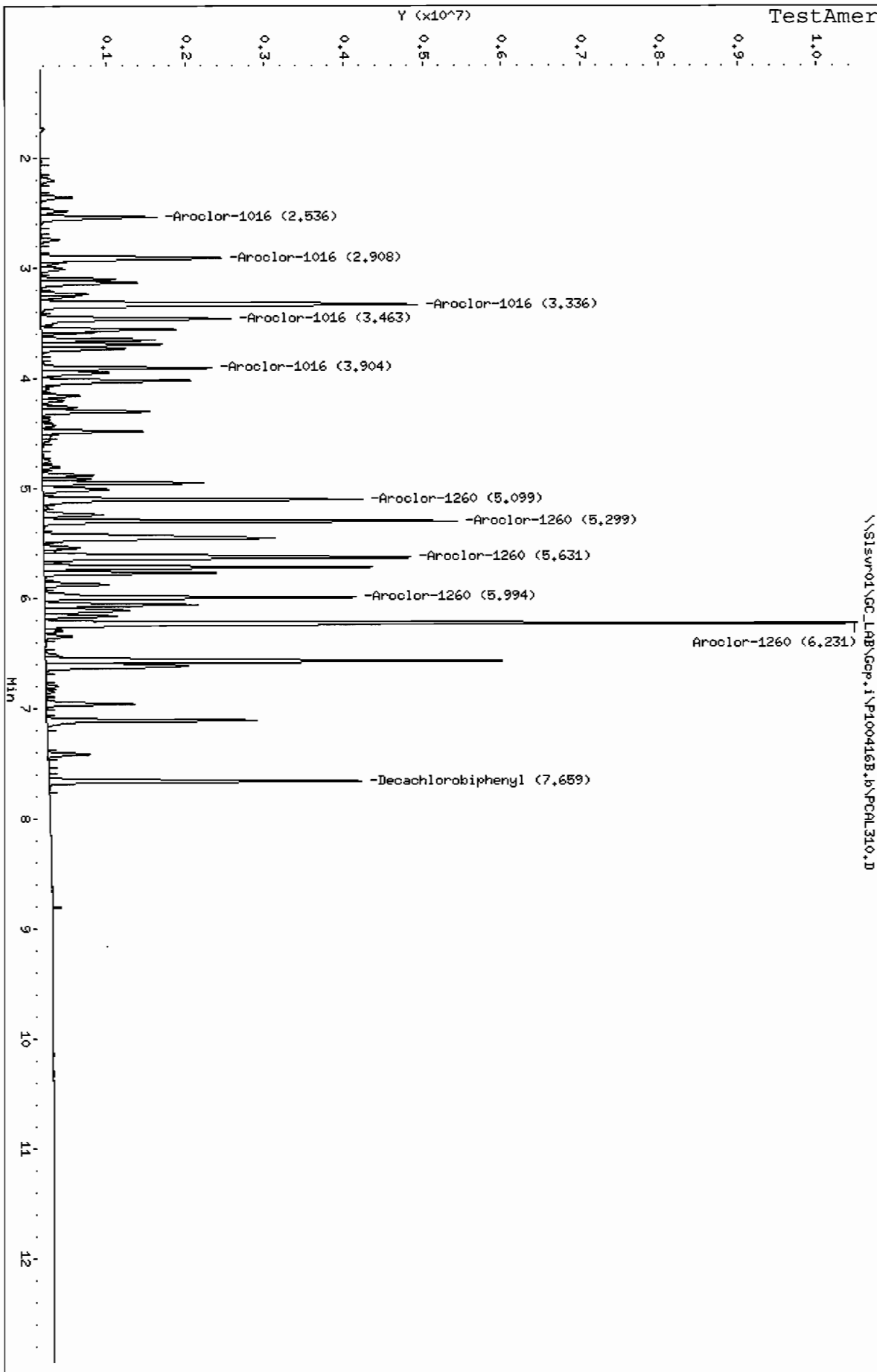
QC Flag Legend

M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.

Data File: \\SISur01\GC\_LAB\Gcp.i\PI00416B.b\PCAL310.D  
Date: 16-APR-2010 13:16  
Client ID:  
Sample Info: ICAL-6  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53

Page 1



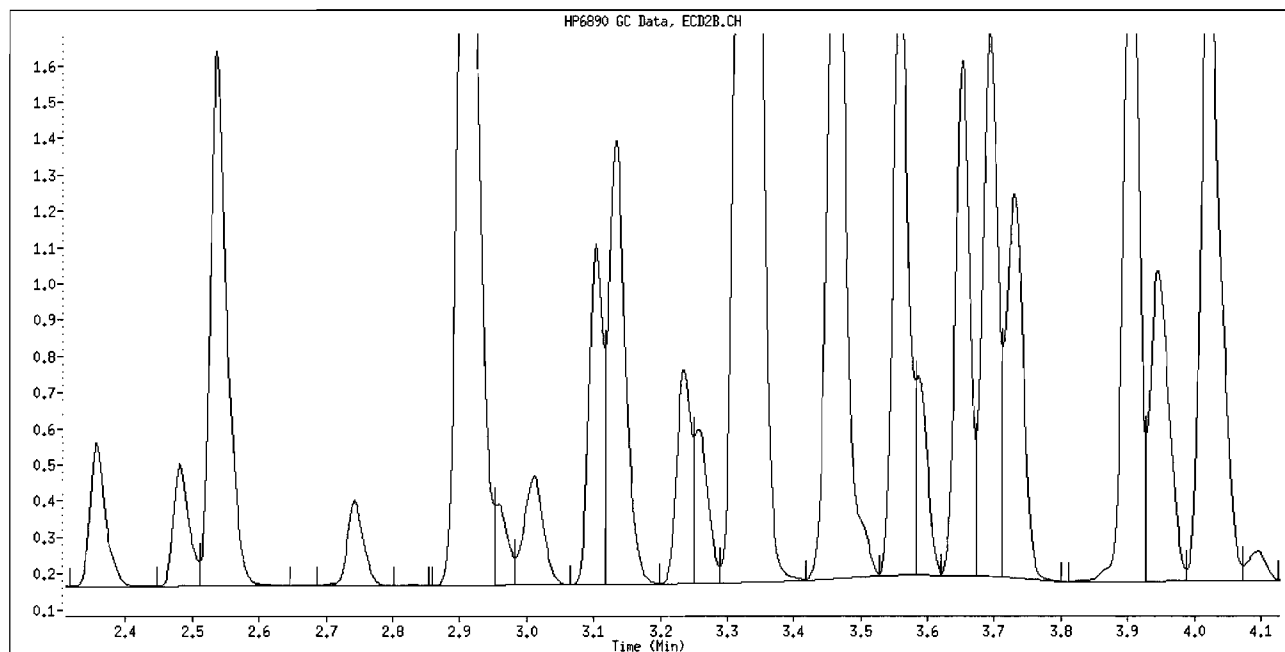
Inj. Date and Time: 16-APR-2010 13:16

Instrument ID: Gcp.i

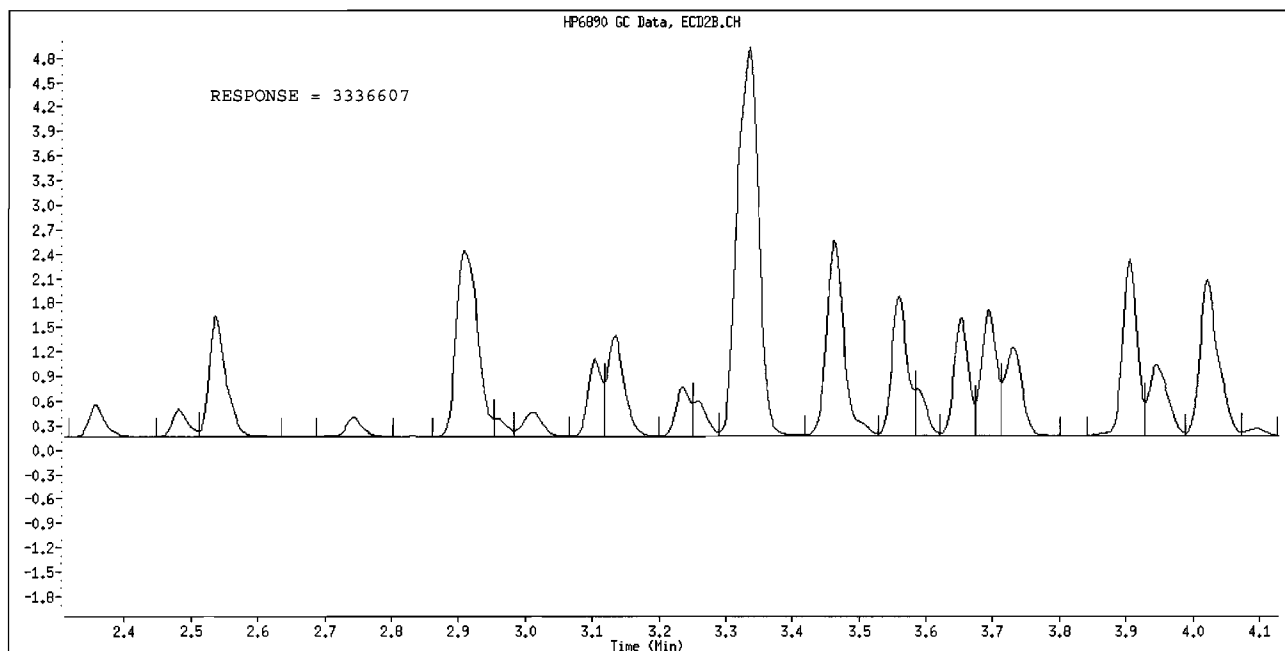
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



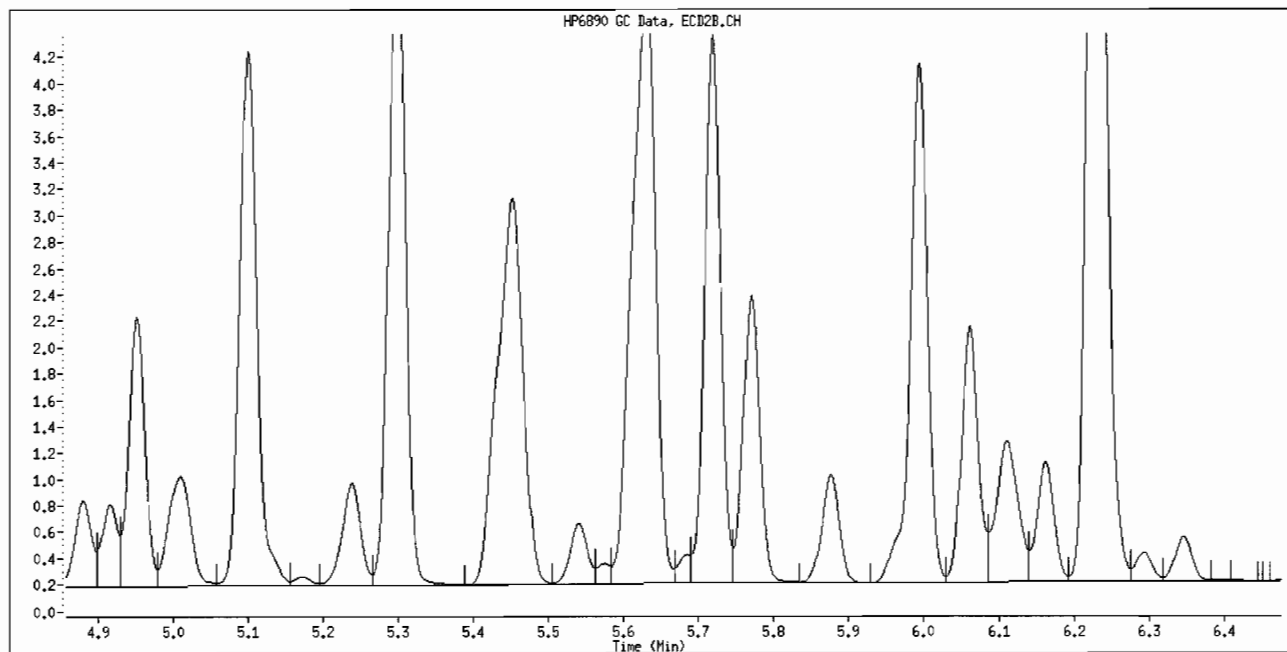
Manual Integration

Manually Integrated By: konopkad

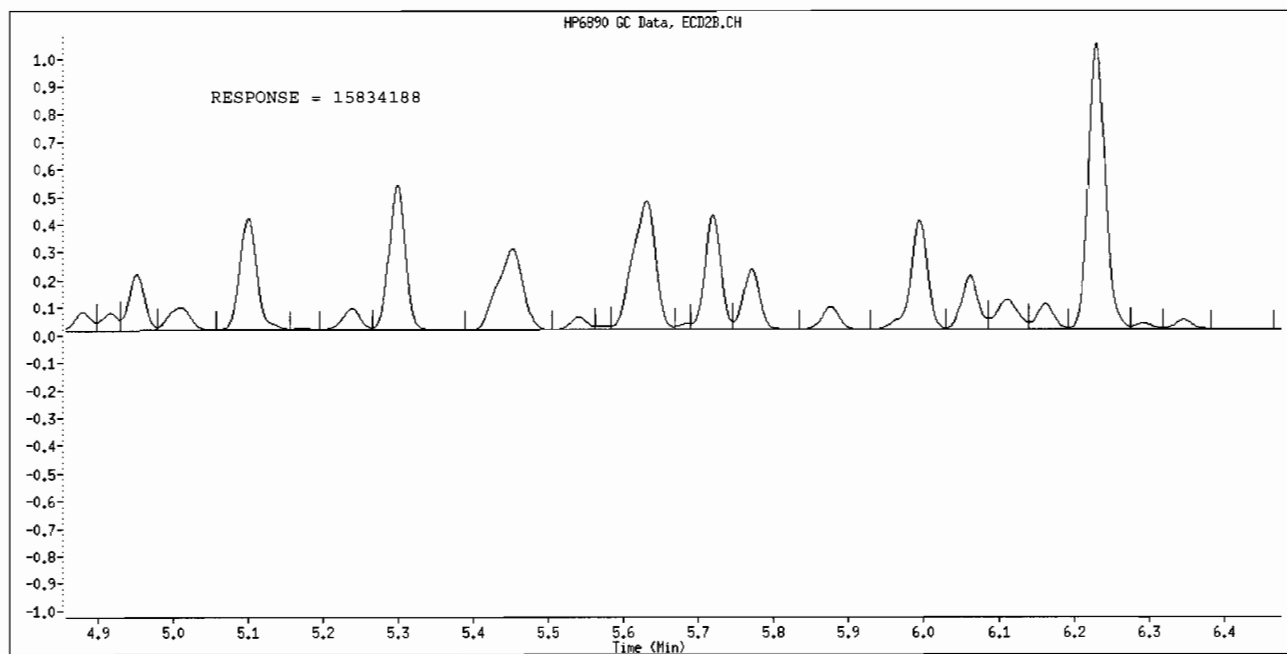
Manual Integration Reason: Baseline Event

Data File Name: PCAL310.D  
Inj. Date and Time: 16-APR-2010 13:16  
Instrument ID: Gcp.i  
Client ID:  
Compound Name: Aroclor-1260  
CAS #: 11096-82-5

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

Data File Name: PCAL310.D

TestAmerica St. Louis

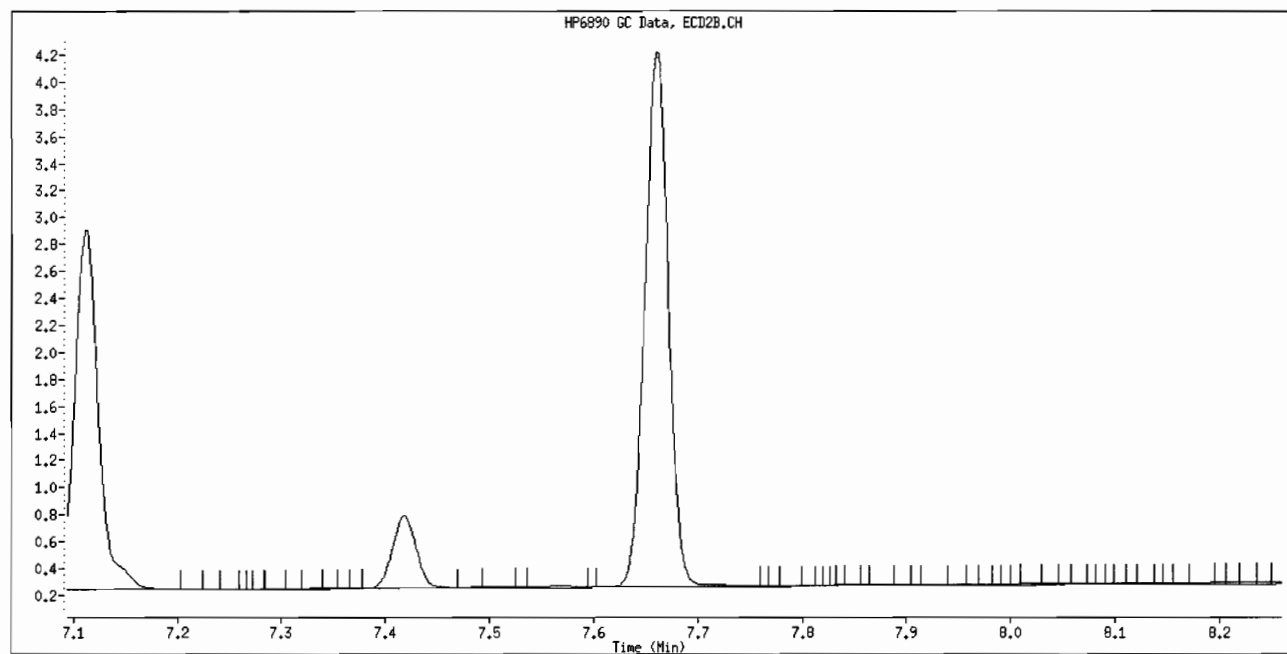
Inj. Date and Time: 16-APR-2010 13:16

Instrument ID: Gcp.i

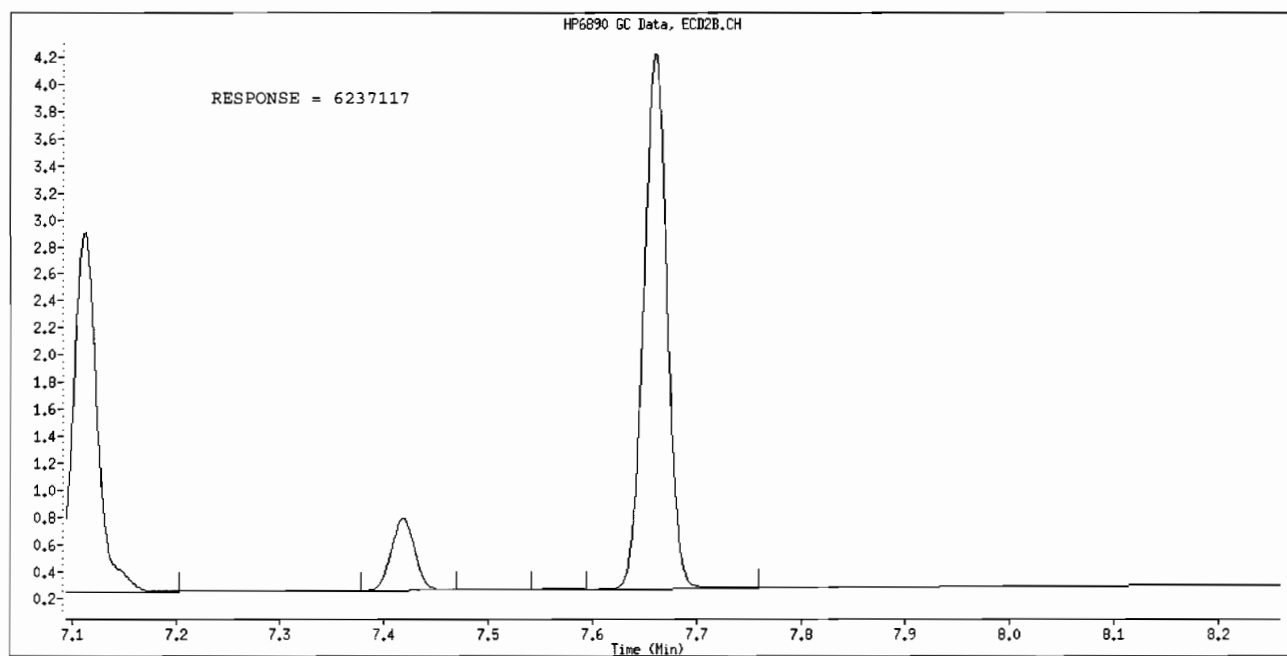
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL311.D  
 Report Date: 17-Apr-2010 11:30

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL311.D  
 Lab Smp Id: ICAL-7  
 Inj Date : 16-APR-2010 13:35  
 Operator : DEK  
 Smp Info : ICAL-7  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 7  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.535	2.537	4050168	2090	80.00- 120.00	100.00 (M)
	2.907	2.909	7990837	2068	41.14- 370.29	197.30
	3.335	3.336	17106067	2273	80.09- 720.81	422.35
	3.462	3.462	6993499	2168	33.53- 301.77	172.67
	3.903	3.906	5341381	2197	25.45- 229.06	131.88
Average of Peak Amounts =			2159.20			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.098	5.101	10298195	2248	80.00- 120.00	100.00 (M)
	5.297	5.299	12802512	2277	24.77- 222.90	124.32
	5.630	5.631	16540259	2318	31.66- 284.90	160.61
	5.993	5.994	10400311	2288	20.03- 180.27	100.99
	6.230	6.231	26188353	2399	49.35- 444.19	254.30
Average of Peak Amounts =			2306.00			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	7.658	7.659	10247379	119.9		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL311.D  
Report Date: 17-Apr-2010 11:30

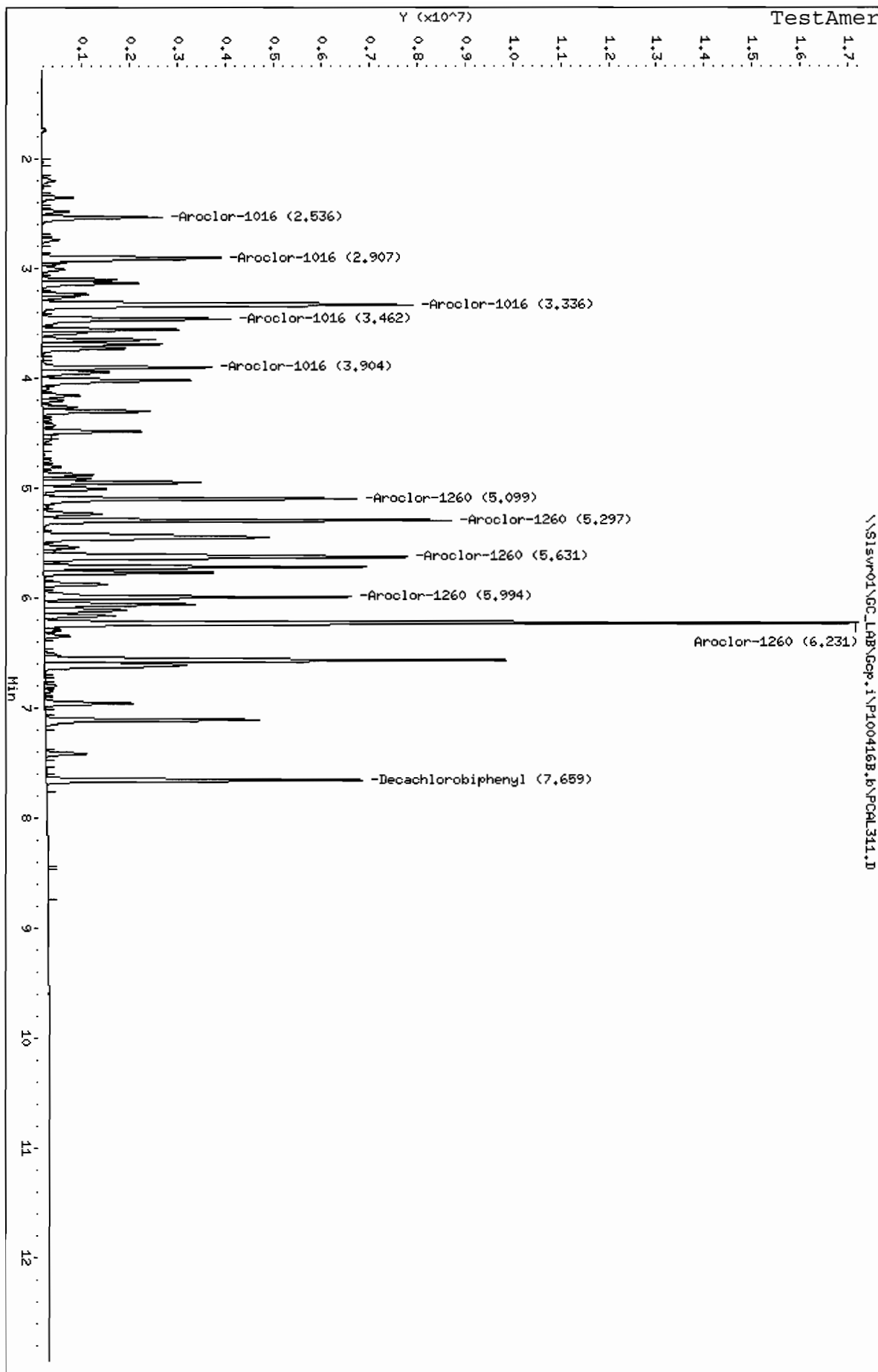
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gcp.i\PI00416B.b\PCAL311.D  
Date: 16-APR-2010 13:35  
Client ID:  
Sample Info: ICAL-7  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL311.D

TestAmerica St. Louis

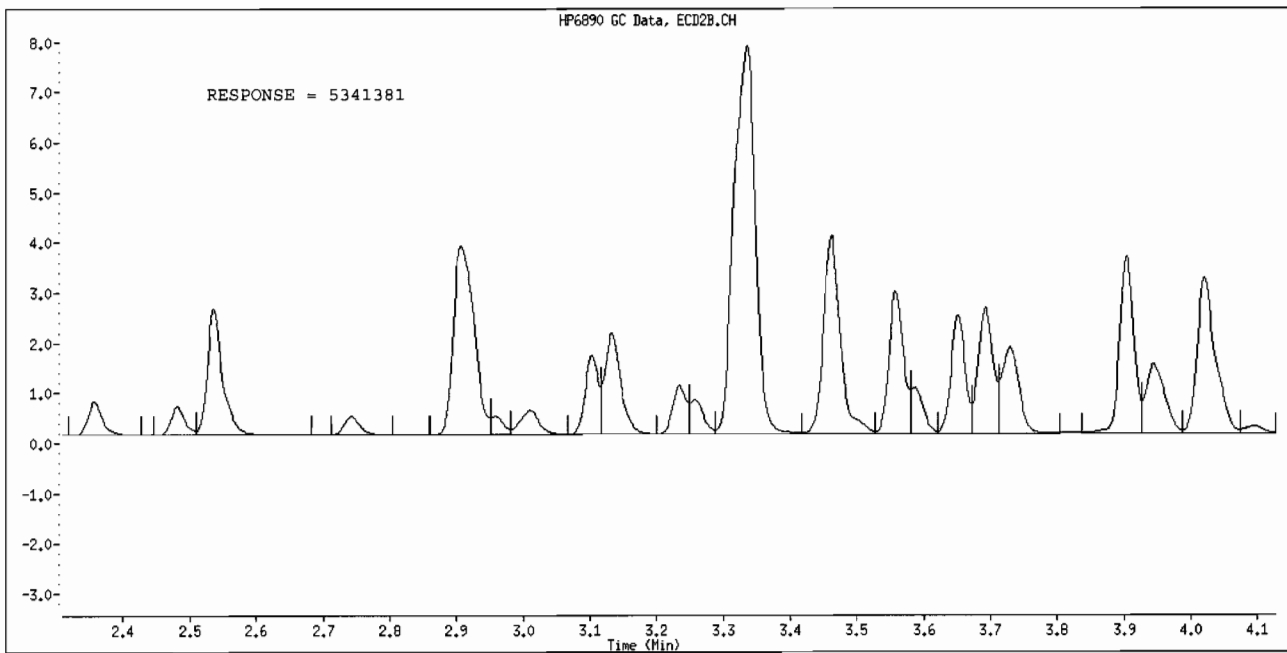
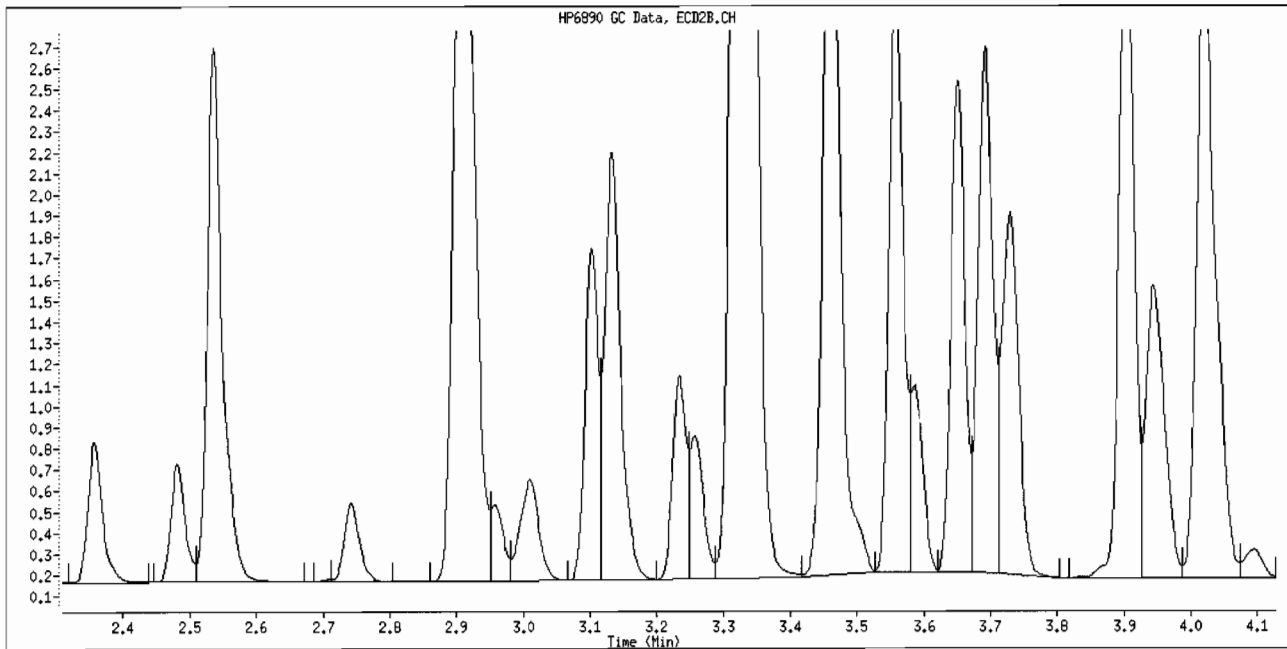
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL311.D

TestAmerica St. Louis

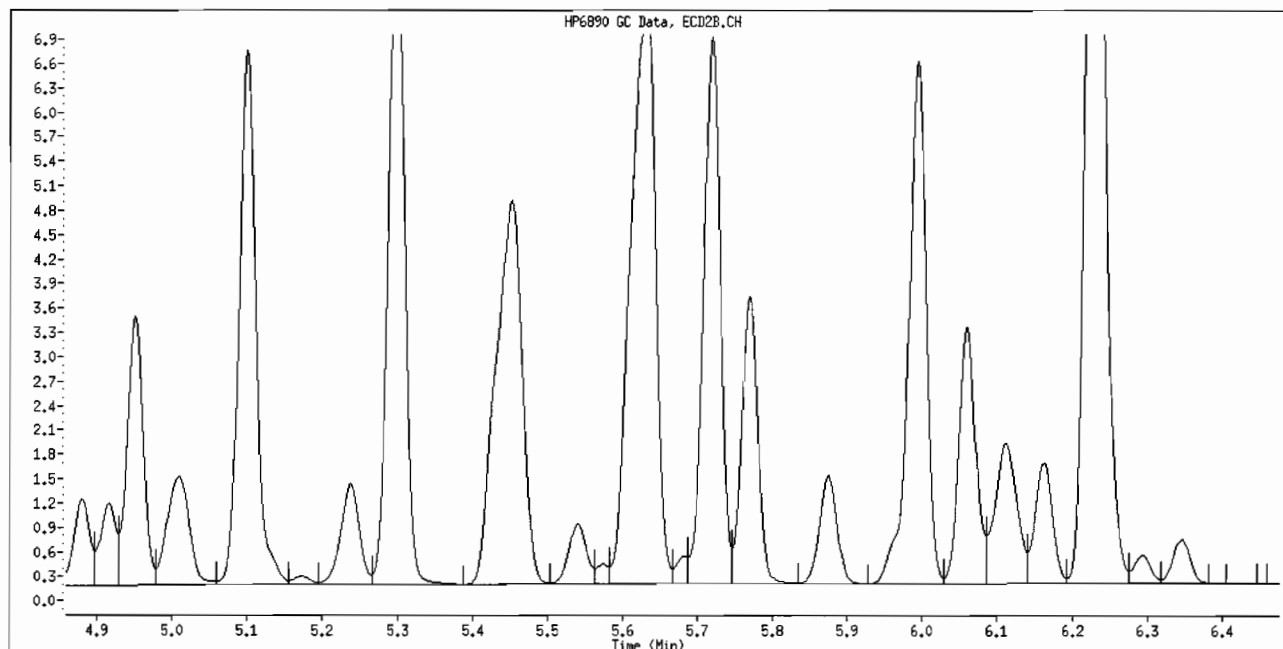
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

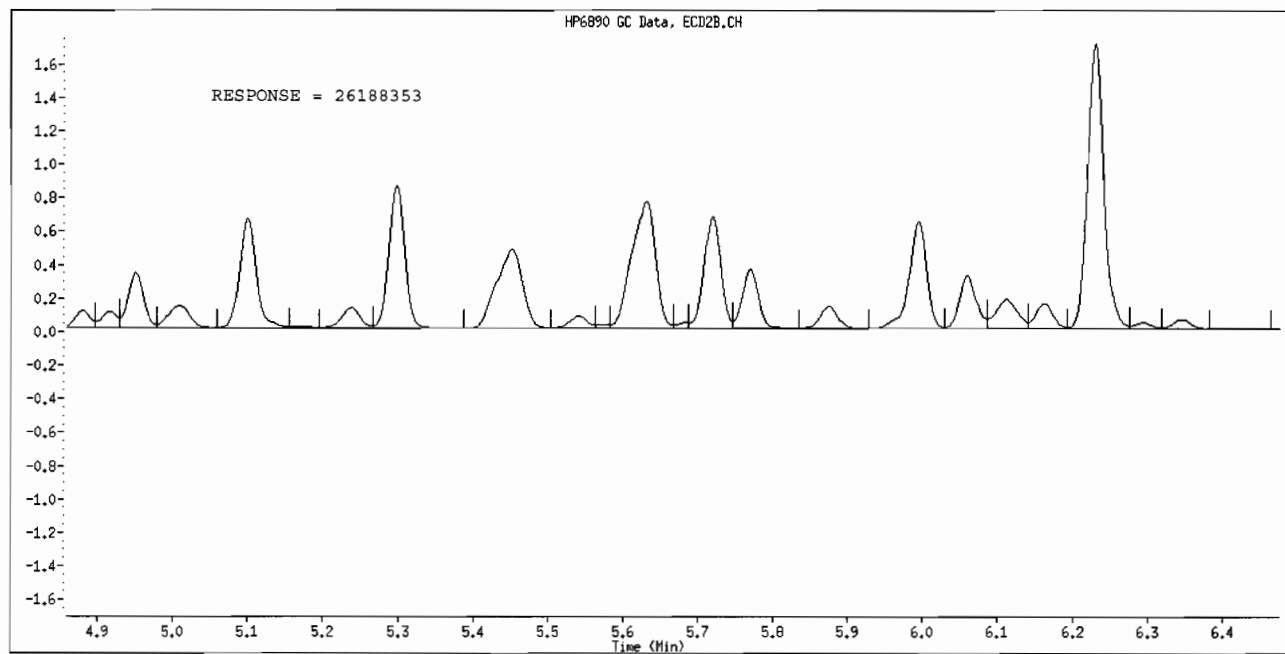
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL311.D

TestAmerica St. Louis

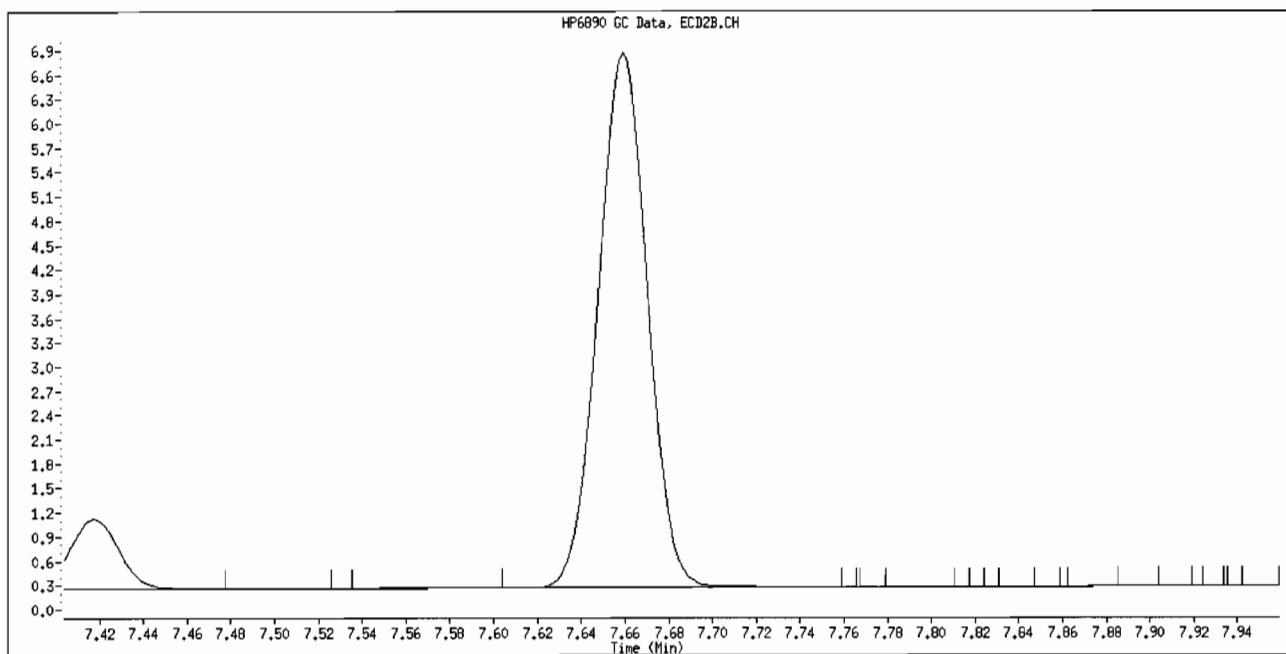
Inj. Date and Time: 16-APR-2010 13:35

Instrument ID: Gcp.i

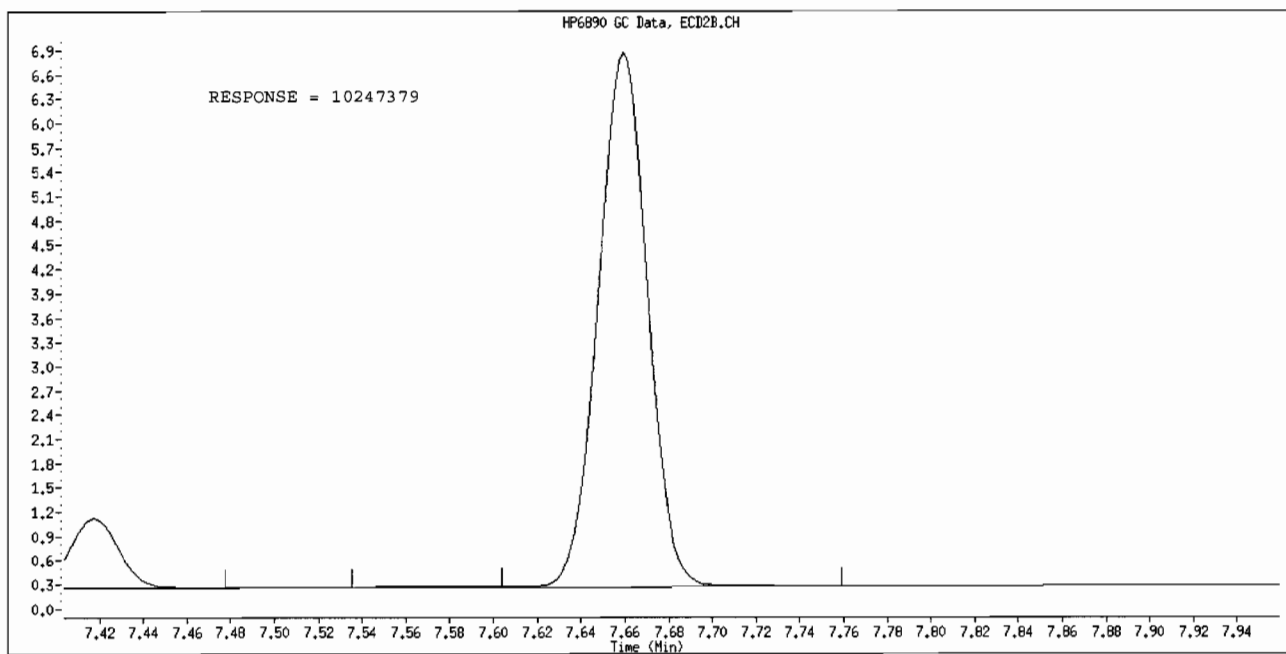
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL312.D  
 Report Date: 17-Apr-2010 11:30

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL312.D  
 Lab Smp Id: ICAL-8  
 Inj Date : 16-APR-2010 13:54  
 Operator : DEK  
 Smp Info : ICAL-8  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:29 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Calibration Sample, Level: 8  
 Compound Sublist: Arl1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.537	2.537	0.000	6455947 4000.00	3332	80.00- 120.00	100.00 (M)
2.908	2.909	-0.001	12970051 4000.00	3357	41.14- 370.29	200.90
3.335	3.336	-0.001	28446852 4000.00	3780	80.09- 720.81	440.63
3.462	3.462	0.000	11431113 4000.00	3544	33.53- 301.77	177.06
3.905	3.906	-0.001	8844581 4000.00	3638	25.45- 229.06	137.00
Average of Peak Amounts =			3530.20			

28 Aroclor-1260			CAS #: 11096-82-5			
5.100	5.101	-0.001	17048037 4000.00	3722	80.00- 120.00	100.00 (M)
5.298	5.299	-0.001	21239192 4000.00	3778	24.77- 222.90	124.58
5.630	5.631	-0.001	27507784 4000.00	3856	31.66- 284.90	161.35
5.993	5.994	-0.001	17342571 4000.00	3815	20.03- 180.27	101.73
6.230	6.231	-0.001	43782406 4000.00	4011	49.35- 444.19	256.82
Average of Peak Amounts =			3836.40			

\$ 32 Decachlorobiphenyl			CAS #:			
7.660	7.659	0.001	16765586 200.000	196.2		(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL312.D  
Report Date: 17-Apr-2010 11:30

TestAmerica St. Louis  
Page 2

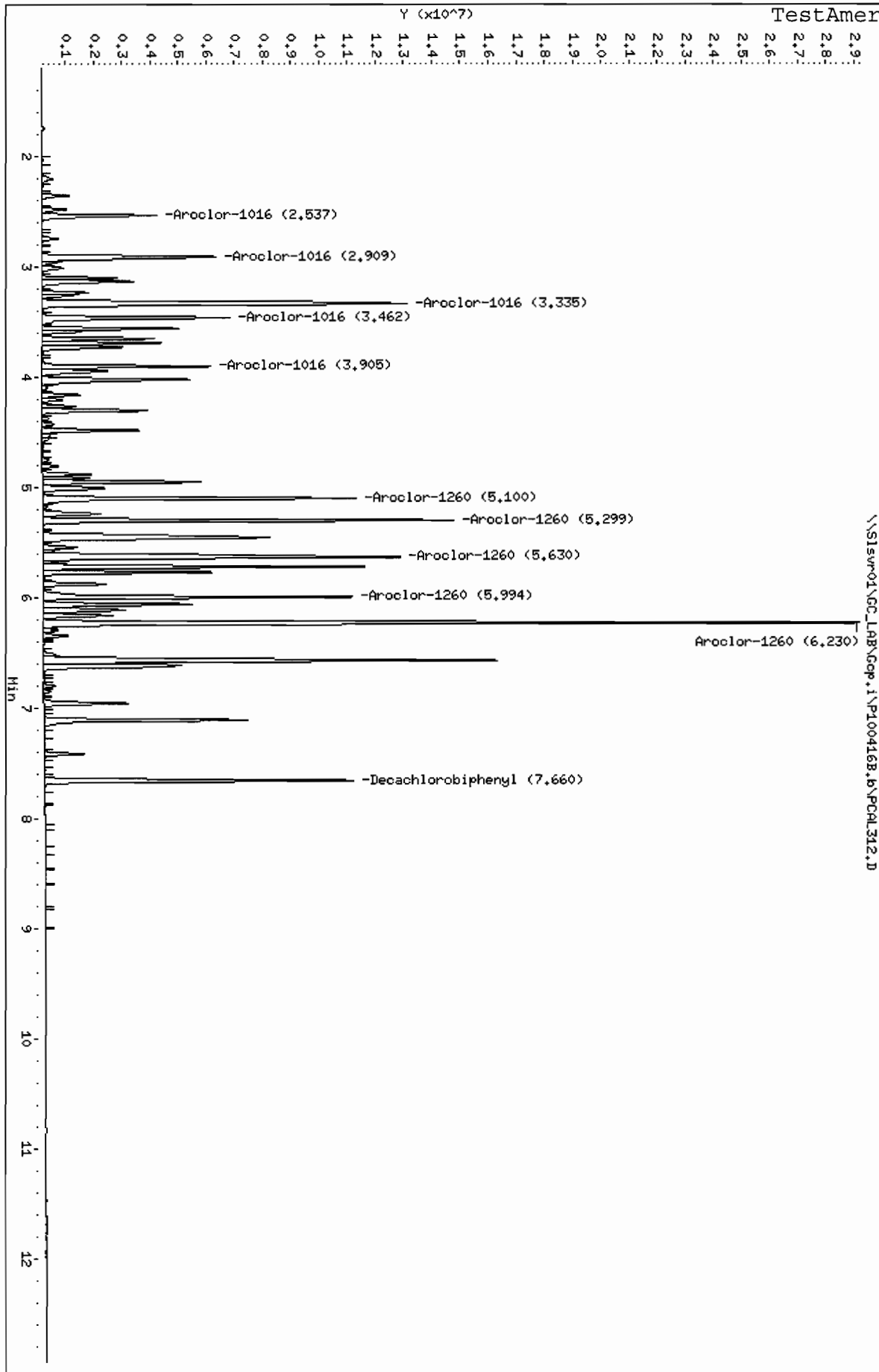
QC Flag Legend

M - Compound response manually integrated.



Data File: \\Slsrv01\GC\_LAB\Gcp.i\P1004168.b\PCAL312.D  
Date: 16-APR-2010 13:54  
Client ID:  
Sample Info: ICAL-8  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL312.D

TestAmerica St. Louis

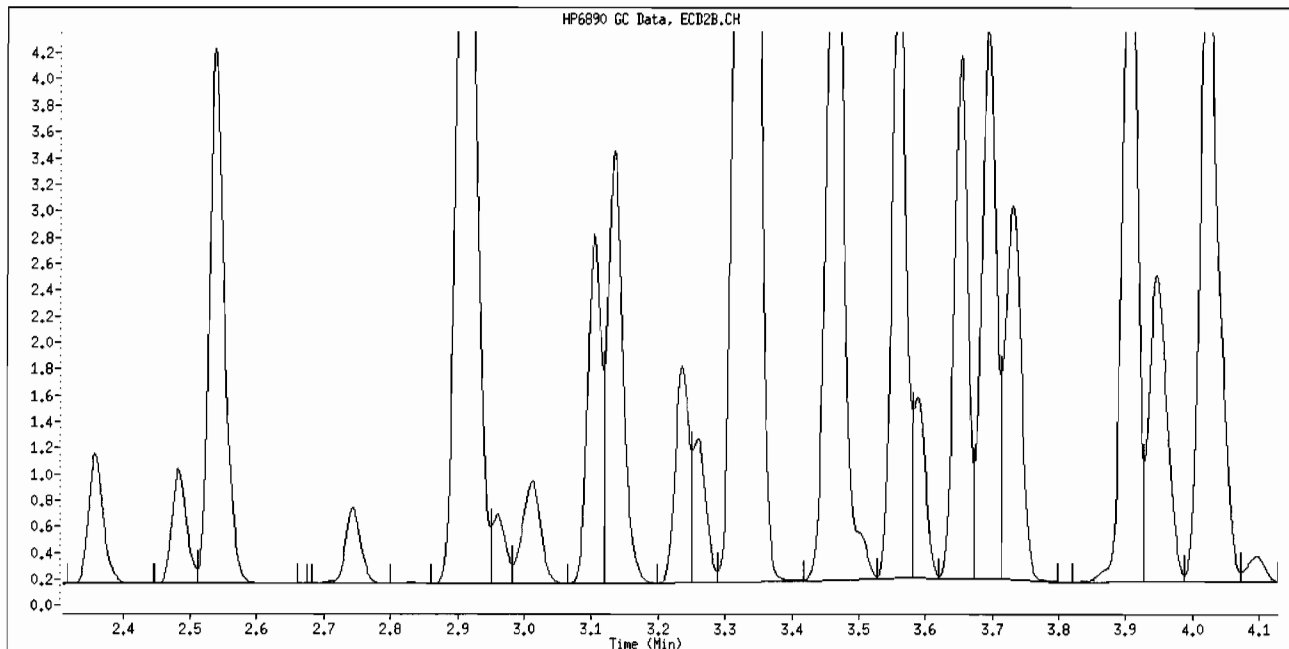
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

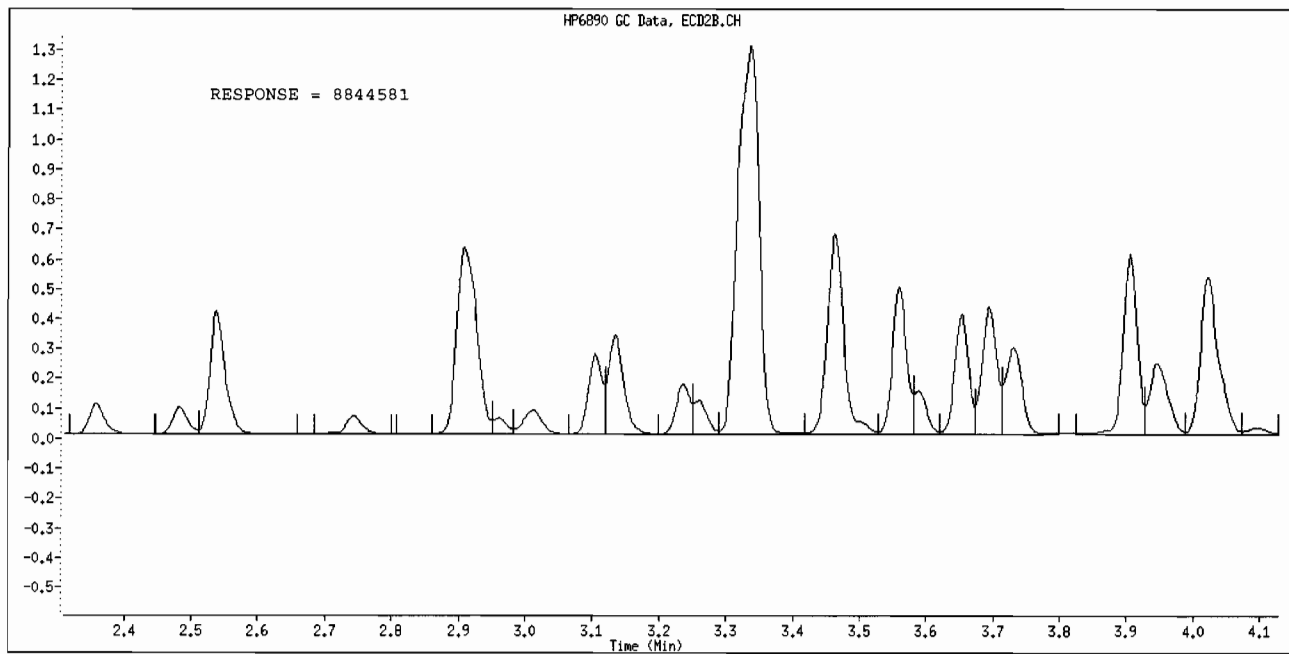
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL312.D

TestAmerica St. Louis

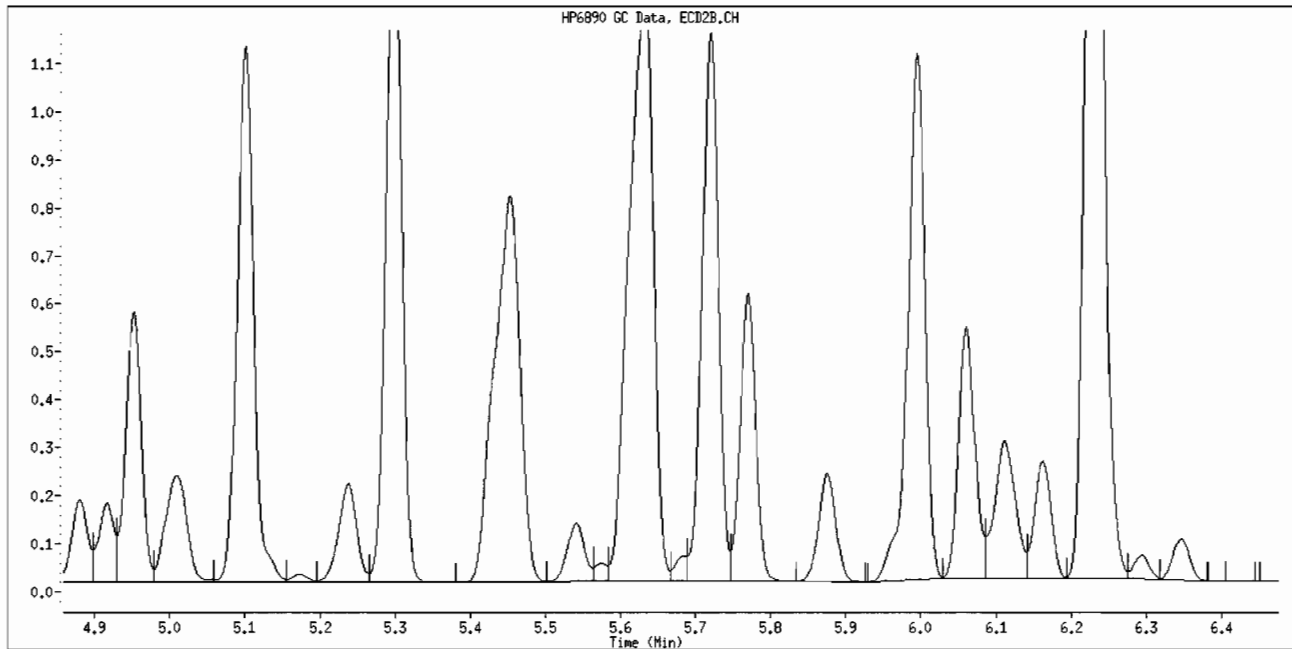
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

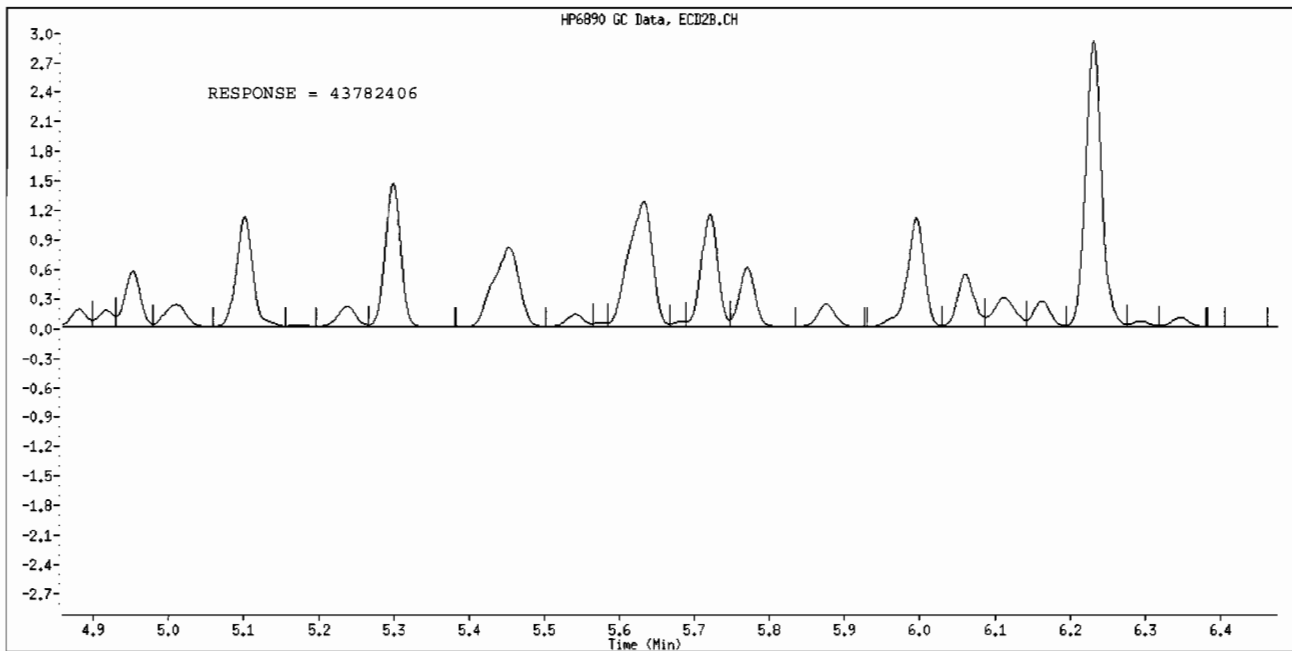
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PCAL312.D

TestAmerica St. Louis

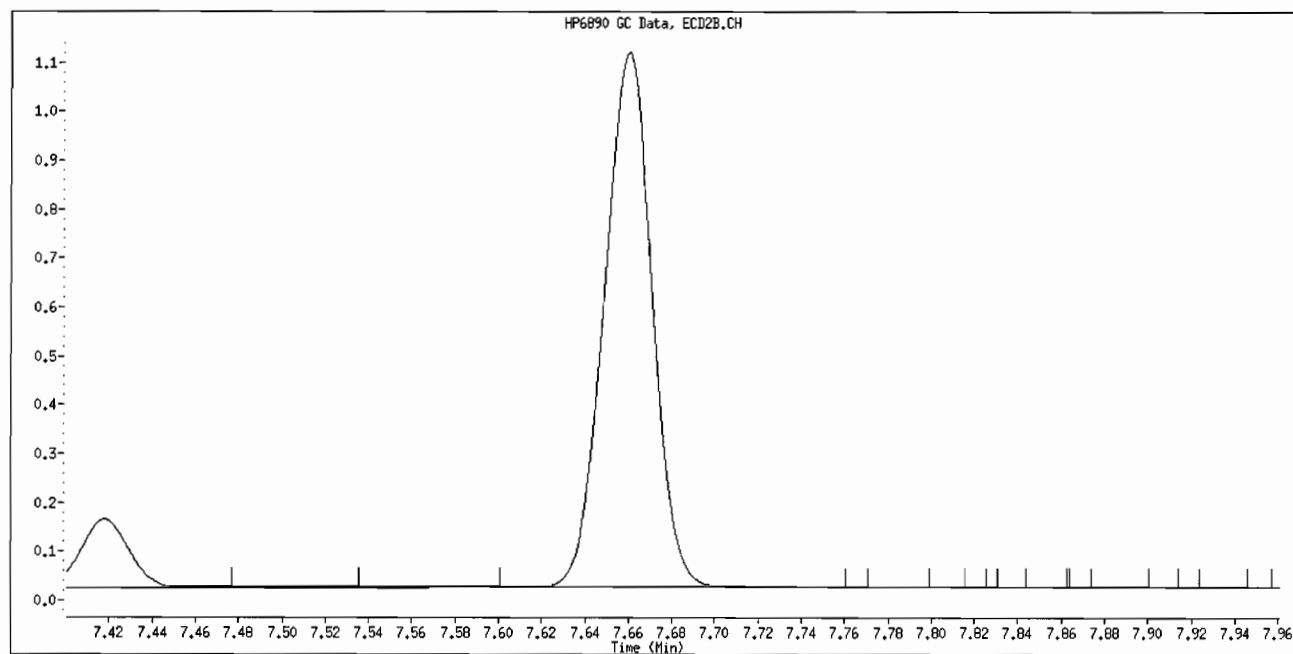
Inj. Date and Time: 16-APR-2010 13:54

Instrument ID: Gcp.i

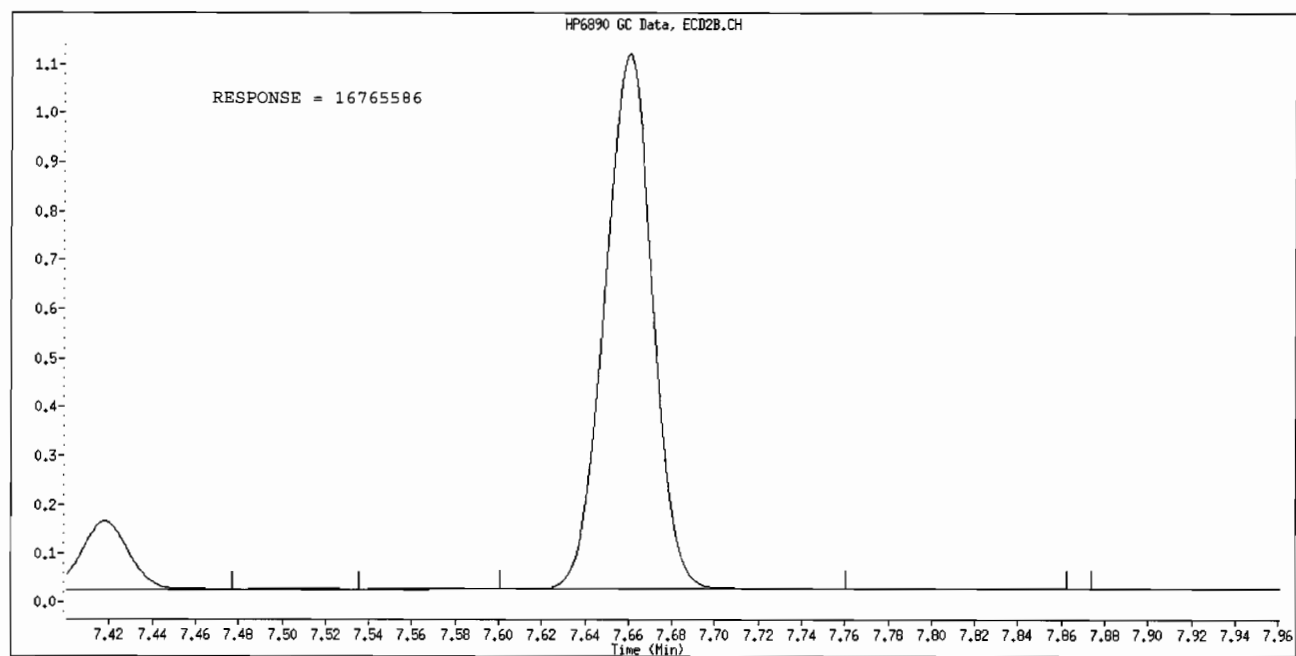
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL314.D  
 Report Date: 17-Apr-2010 11:38

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL314.D  
 Lab Smp Id: 1232  
 Inj Date : 16-APR-2010 14:32  
 Operator : DEK  
 Smp Info : 1232  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target  
 Cal Date : 16-APR-2010 14:32  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL314.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1232.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

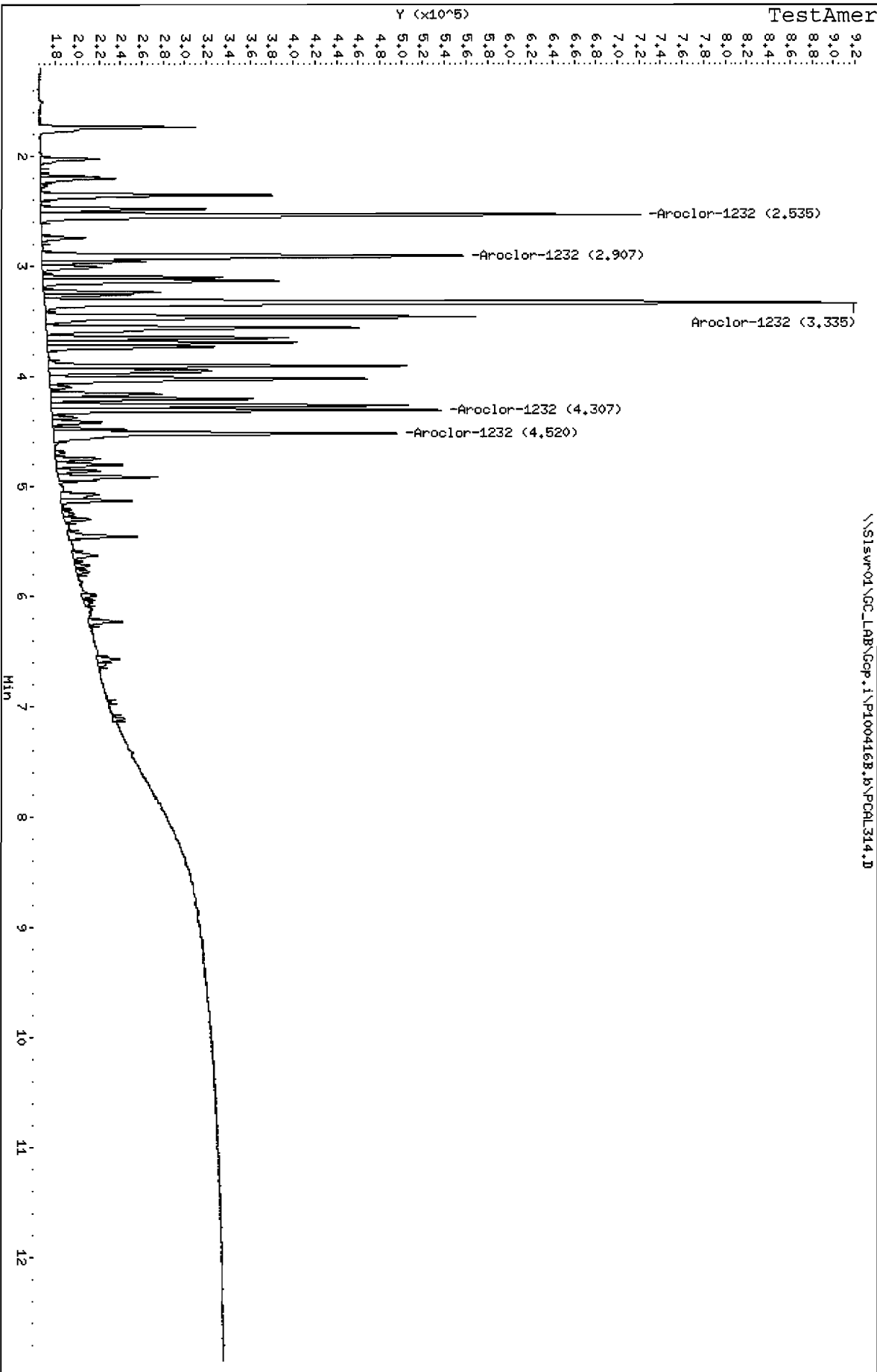
AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO
24	Aroclor-1232				CAS #: 1114-16-5	
2.535	2.535	0.000	1002396	500.000	500.0 20.00- 180.00	100.00 (M)
2.906	2.906	0.000	886916	500.000	500.0 17.70- 159.26	88.48
3.335	3.335	0.000	1719757	500.000	500.0 34.31- 308.82	171.56
4.306	4.306	0.000	579519	500.000	500.0 11.56- 104.06	57.81
4.520	4.520	0.000	650663	500.000	500.0 12.98- 116.84	64.91
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp.i\P1004168.b\PCAL314.D  
Date : 16-APR-2010 14:32  
Client ID:  
Sample Info: 1232  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL314.D

TestAmerica St. Louis

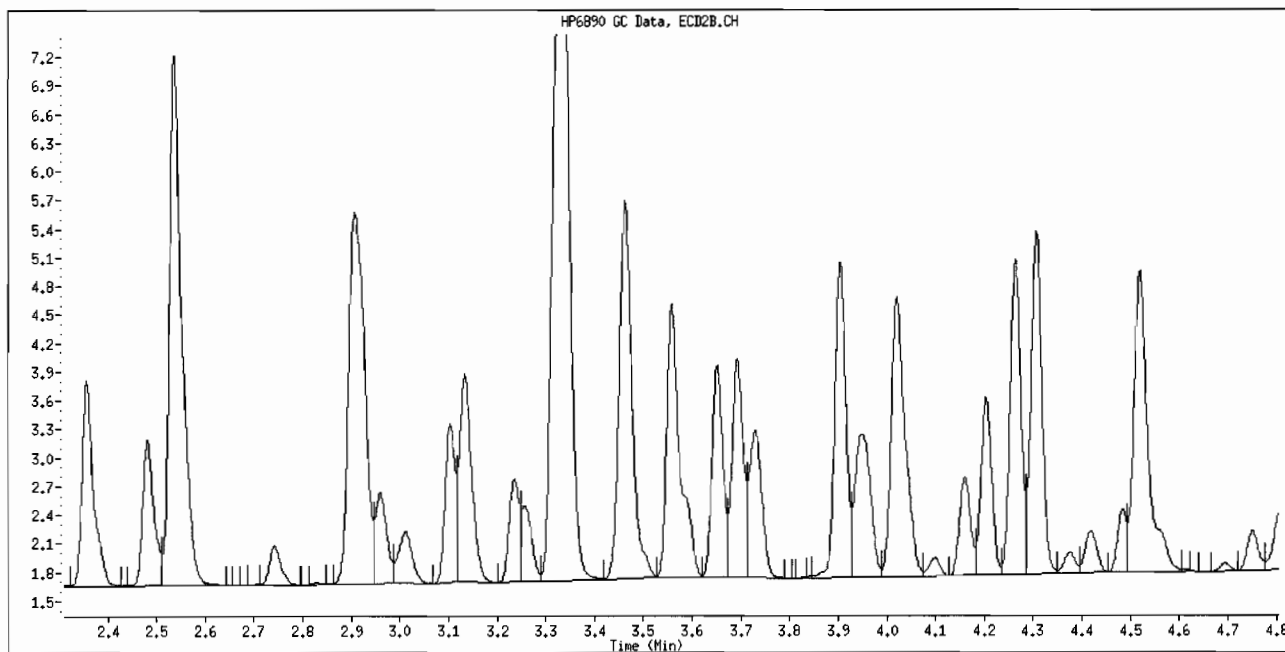
Inj. Date and Time: 16-APR-2010 14:32

Instrument ID: Gcp.i

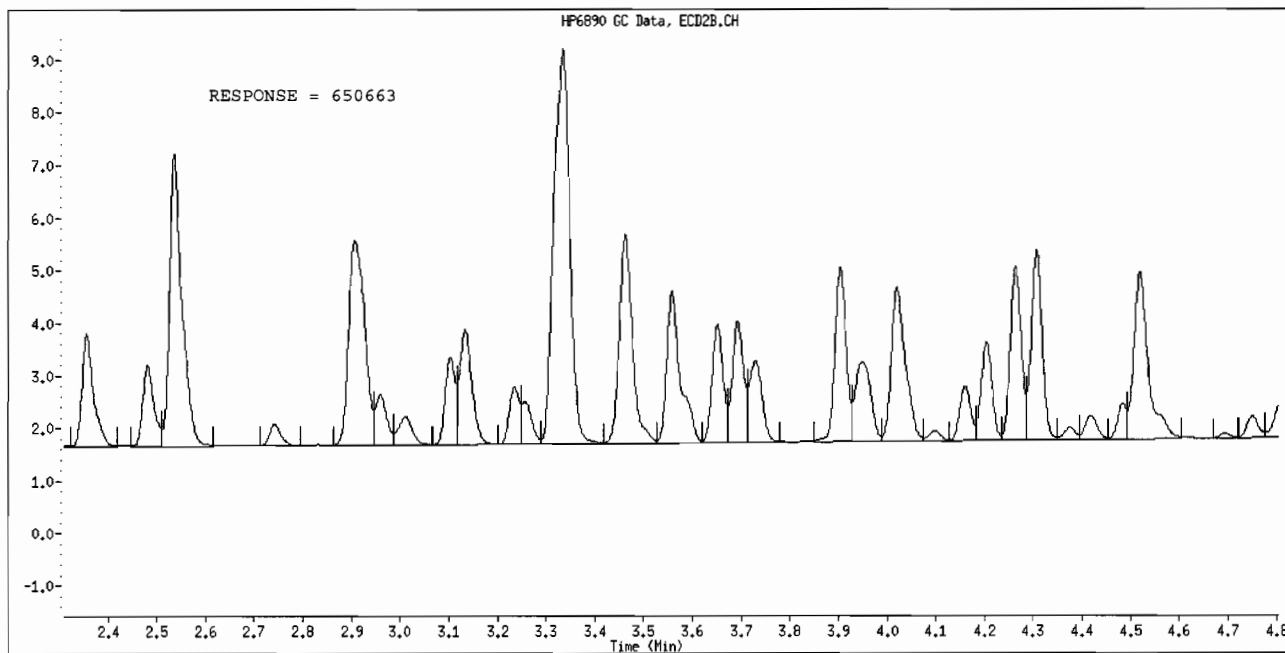
Client ID:

Compound Name: Aroclor-1232

CAS #: 1114-16-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL315.D  
 Report Date: 17-Apr-2010 11:39

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL315.D  
 Lab Smp Id: 1242  
 Inj Date : 16-APR-2010 14:50  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1242  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 14:50 Cal File: PCAL315.D  
 Als bottle: 13 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1242.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
25	Aroclor-1242				CAS #: 53469-21-9	
2.911	2.911	0.000	1524315	500.000	500.0 20.00- 180.00	100.00 (M)
3.134	3.134	0.000	667701	500.000	500.0 8.76- 78.85	43.80
3.337	3.337	0.000	2887062	500.000	500.0 37.88- 340.92	189.40
4.307	4.307	0.000	1106175	500.000	500.0 14.51- 130.62	72.57
4.522	4.522	0.000	1283148	500.000	500.0 16.84- 151.52	84.18
Average of Peak Amounts =			500.000			

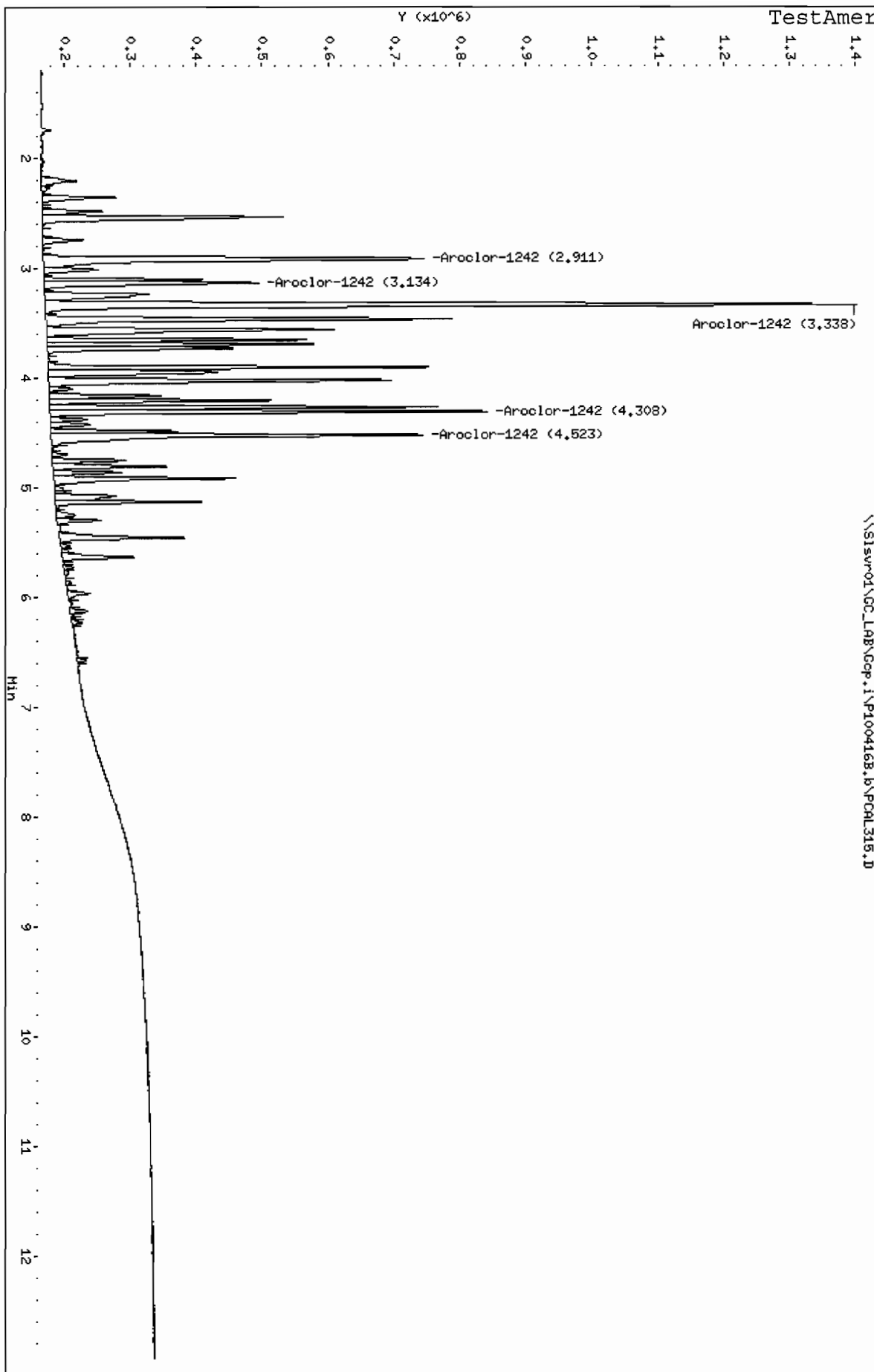
## QC Flag Legend

M - Compound response manually integrated.



Data File: \\slsvr01\DC\_LAB\Gcp.i\PI004168.b\PCAL315.D  
 Date: 16-APR-2010 14:50  
 Client ID:  
 Sample Info: 1242  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



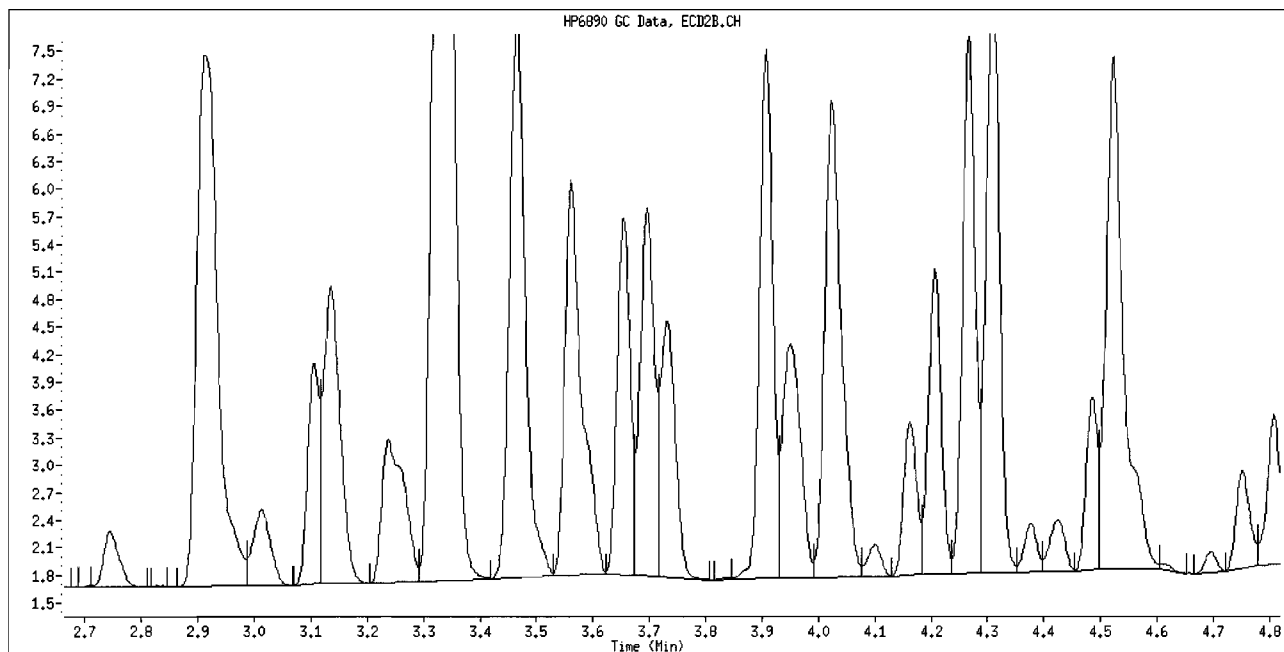
Inj. Date and Time: 16-APR-2010 14:50

Instrument ID: Gcp.i

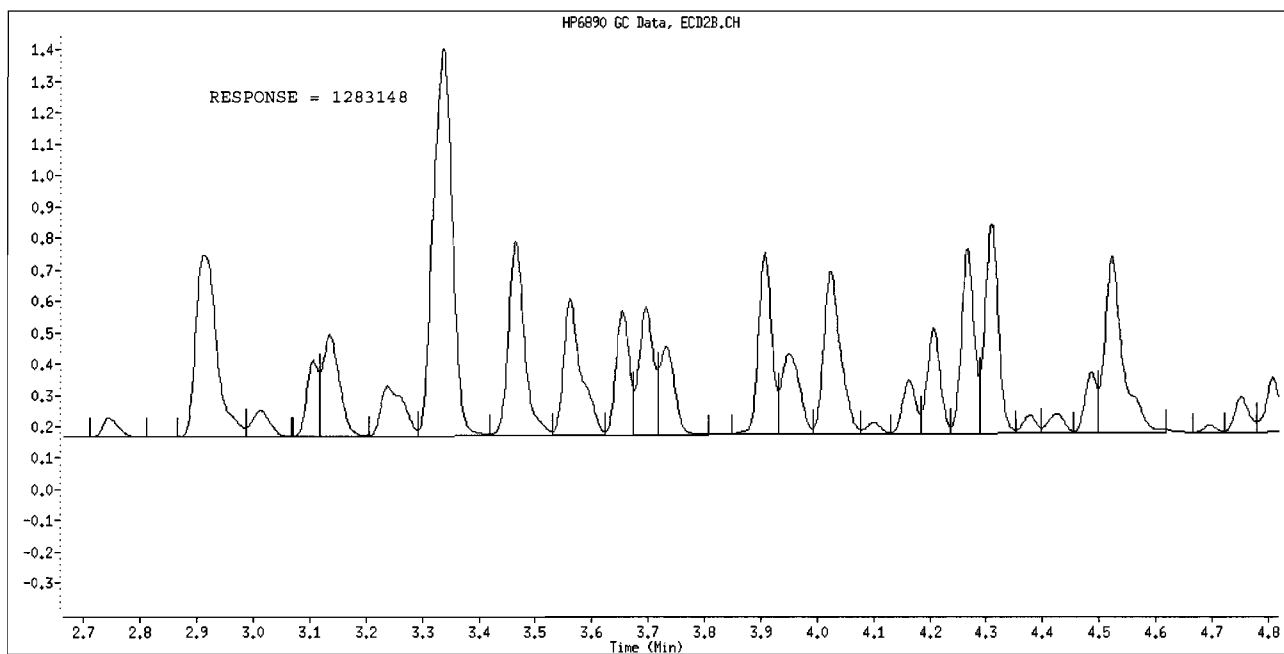
Client ID:

Compound Name: Aroclor-1242

CAS #: 53469-21-9



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL316.D  
 Report Date: 17-Apr-2010 11:40

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL316.D  
 Lab Smp Id: 1248  
 Inj Date : 16-APR-2010 15:09  
 Operator : DEK  
 Smp Info : 1248  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target  
 Cal Date : 16-APR-2010 15:09  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL316.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1248.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

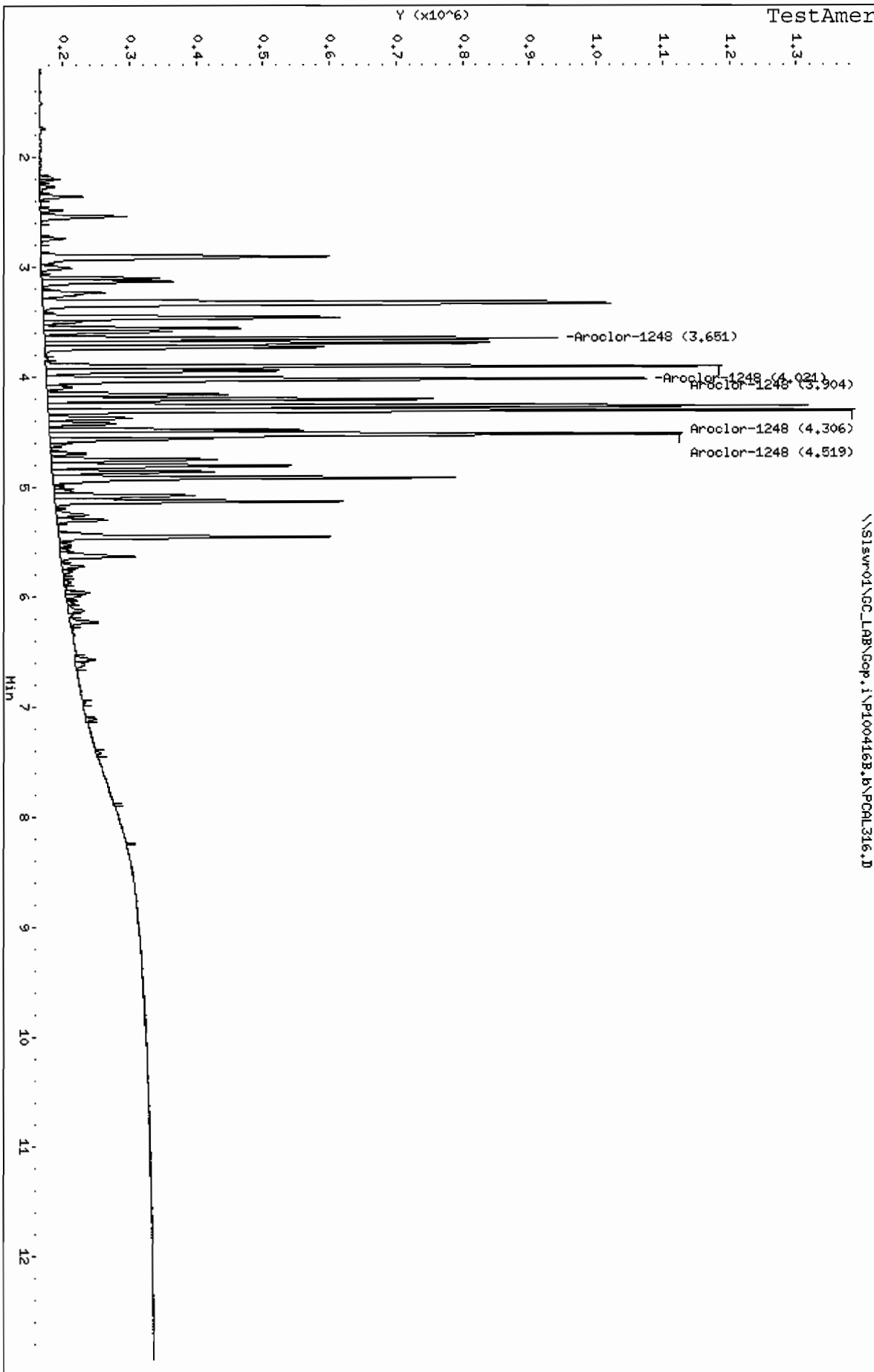
AMOUNTS							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO	
----	-----	-----	-----	-----	-----	-----	
26 Aroclor-1248			CAS #: 12672-29-6				
3.651	3.651	0.000	1151787 500.000	500.0	20.00- 180.00	100.00 (M)	
3.904	3.904	0.000	1523310 500.000	500.0	26.45- 238.06	132.26	
4.021	4.021	0.000	1647113 500.000	500.0	28.60- 257.41	143.00	
4.306	4.306	0.000	1935848 500.000	500.0	33.61- 302.53	168.07	
4.519	4.519	0.000	1925457 500.000	500.0	33.43- 300.91	167.17	
Average of Peak Amounts =			500.000				

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp.i\P1004168.b\PCAL316.D  
 Date: 16-APR-2010 15:09  
 Client ID:  
 Sample Info: 1248  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PCAL316.D

TestAmerica St. Louis

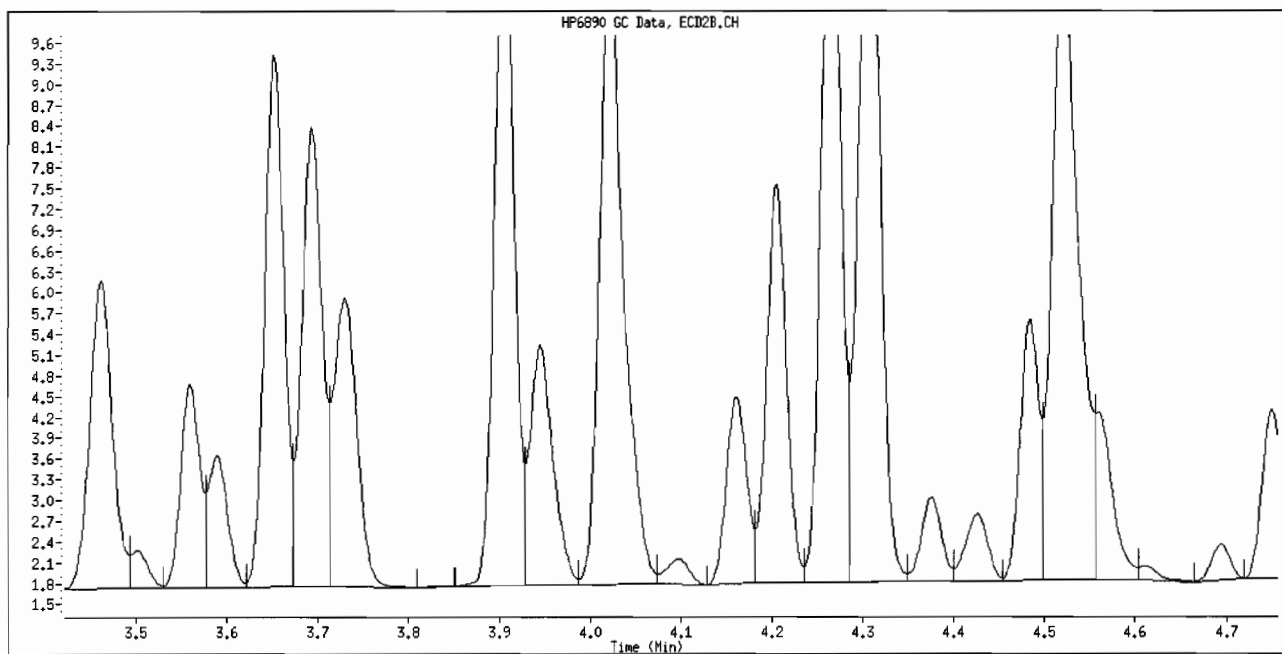
Inj. Date and Time: 16-APR-2010 15:09

Instrument ID: Gcp.i

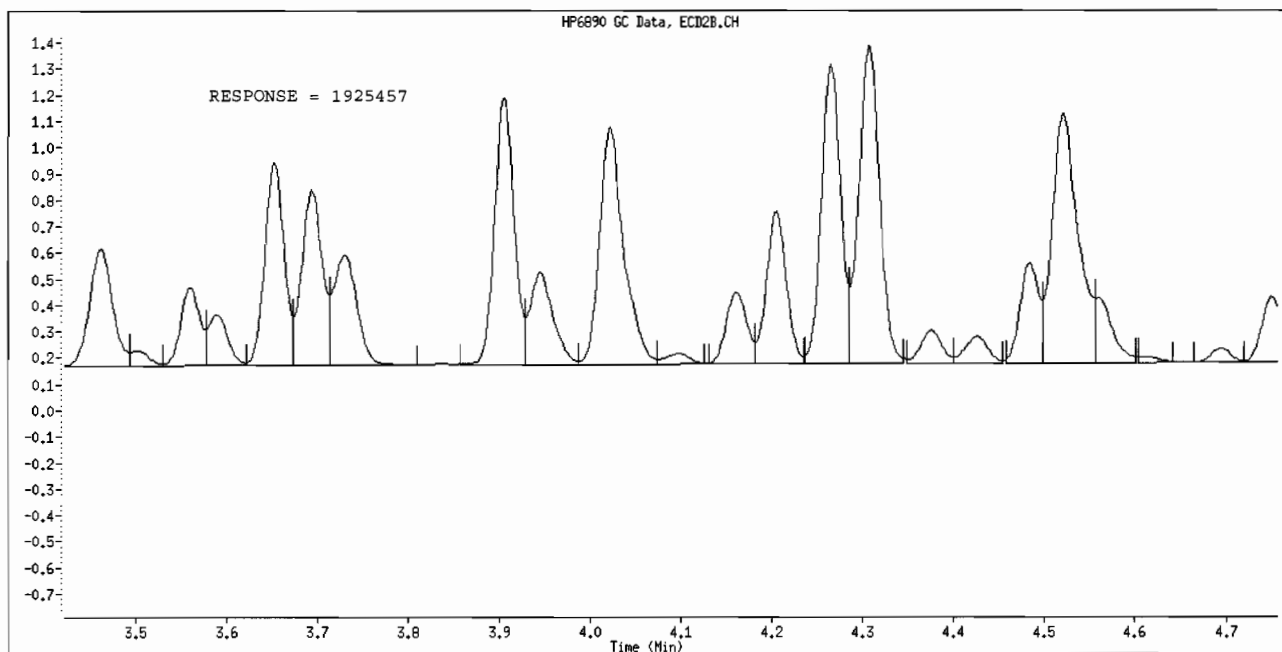
Client ID:

Compound Name: Aroclor-1248

CAS #: 12672-29-6



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL317.D  
 Report Date: 17-Apr-2010 11:41

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL317.D  
 Lab Smp Id: 1221/1254  
 Inj Date : 16-APR-2010 15:28  
 Operator : DEK  
 Smp Info : 1221/1254  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target  
 Cal Date : 16-APR-2010 15:28  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL317.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar2154.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

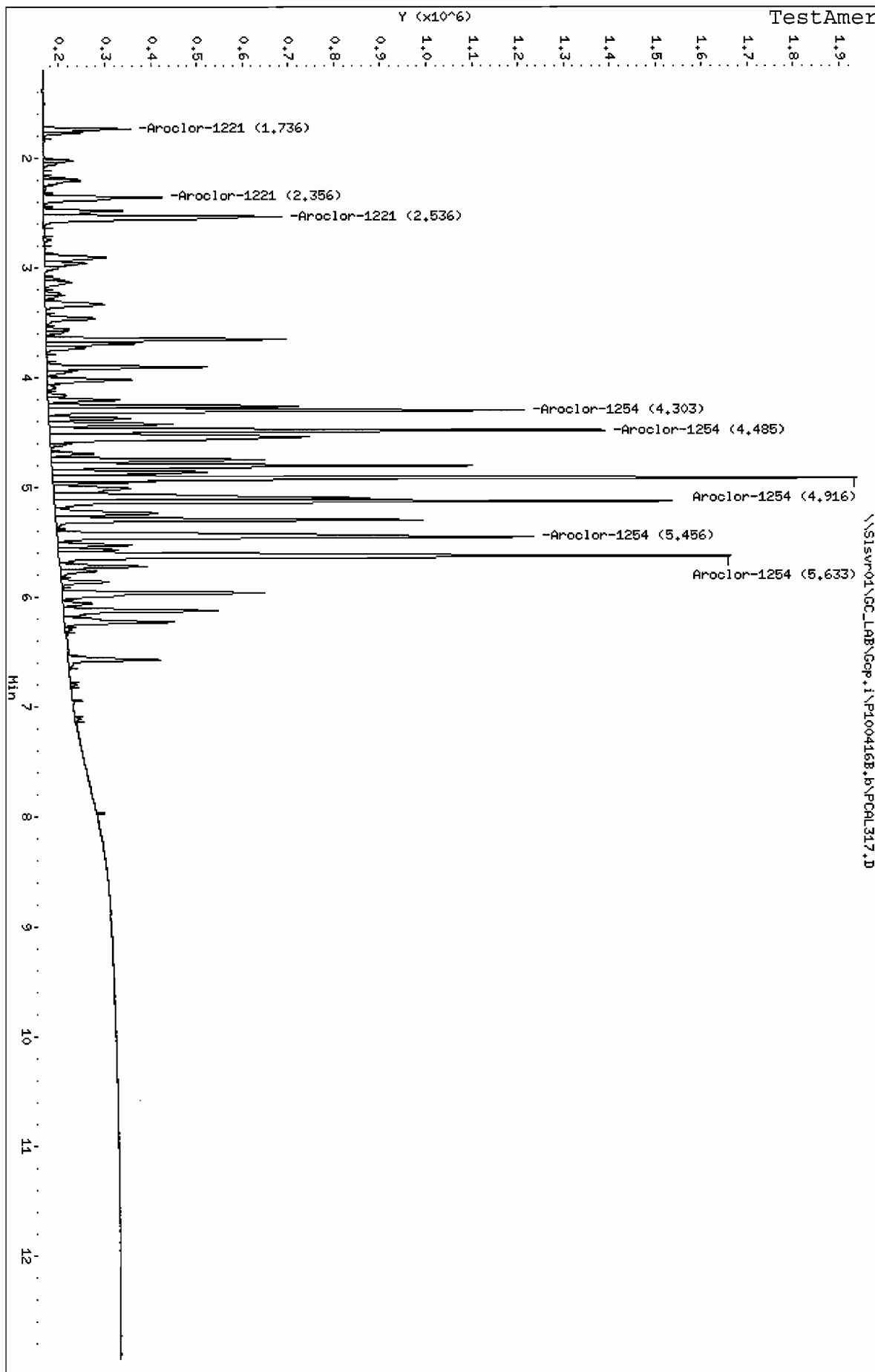
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
-----						
23 Aroclor-1221			CAS #: 11104-28-2			
1.736	1.736	0.000	267293 500.000	500.0	20.00- 180.00	100.00 (M)
2.356	2.356	0.000	524781 500.000	500.0	39.27- 353.40	196.33
2.536	2.536	0.000	1187510 500.000	500.0	88.85- 799.69	444.27
Average of Peak Amounts =			500.000			
-----						
27 Aroclor-1254			CAS #: 11097-69-1			
4.303	4.303	0.000	1731784 500.000	500.0	20.00- 180.00	100.00 (M)
4.484	4.484	0.000	1939666 500.000	500.0	22.40- 201.61	112.00
4.916	4.916	0.000	2771538 500.000	500.0	32.01- 288.07	160.04
5.456	5.456	0.000	2373654 500.000	500.0	27.41- 246.72	137.06
5.633	5.633	0.000	2926518 500.000	500.0	33.80- 304.18	168.99
Average of Peak Amounts =			500.000			
-----						

## QC Flag Legend

M - Compound response manually integrated.

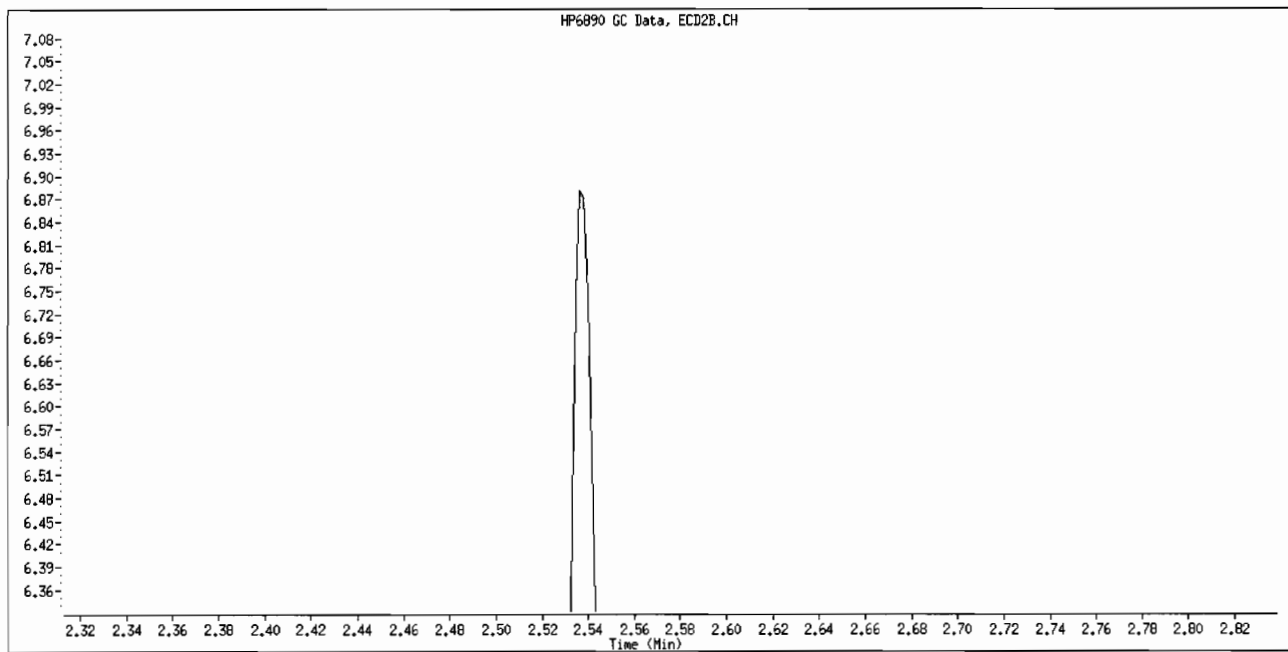
Data File: \\Slsrv01\GC\_LAB\Gcp,i\P100416B.b\PCAL317.D  
 Date: 16-APR-2010 15:28  
 Client ID:  
 Sample Info: 1221/1254  
 Volume Injected (uL): 2.0  
 Column Phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53

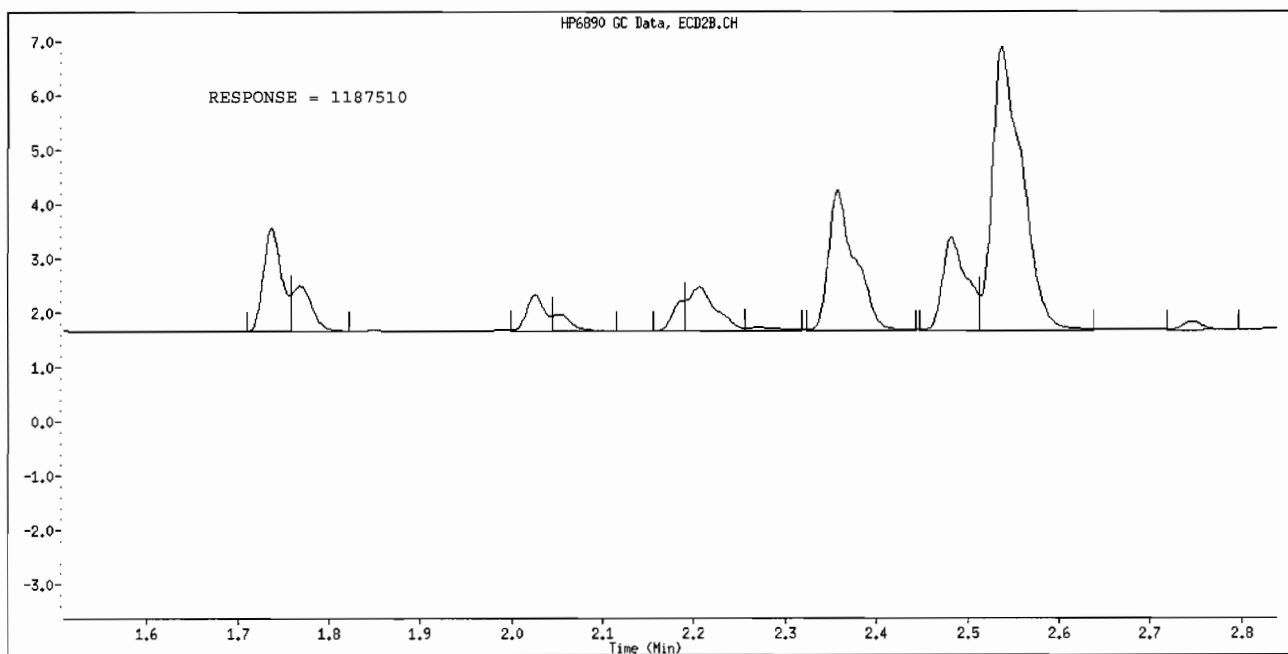


Data File Name: PCAL317.D  
Inj. Date and Time: 16-APR-2010 15:28  
Instrument ID: Gcp.i  
Client ID:  
Compound Name: Aroclor-1221  
CAS #: 11104-28-2

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event



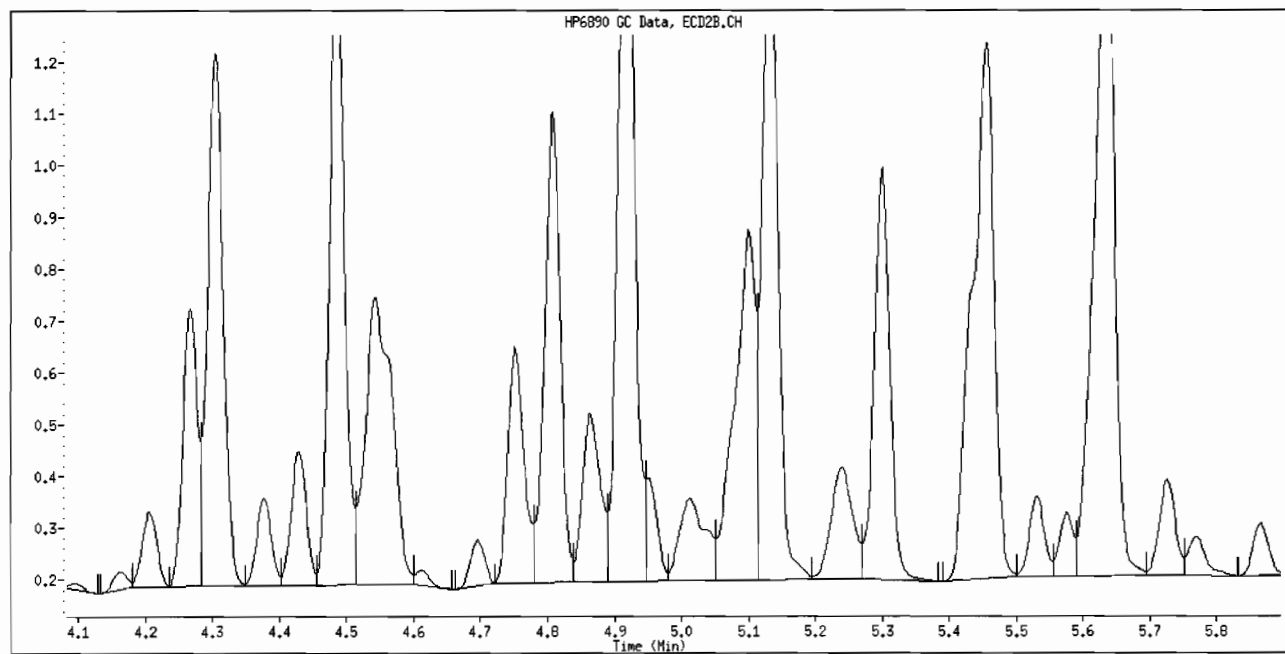
Inj. Date and Time: 16-APR-2010 15:28

Instrument ID: Gcp.i

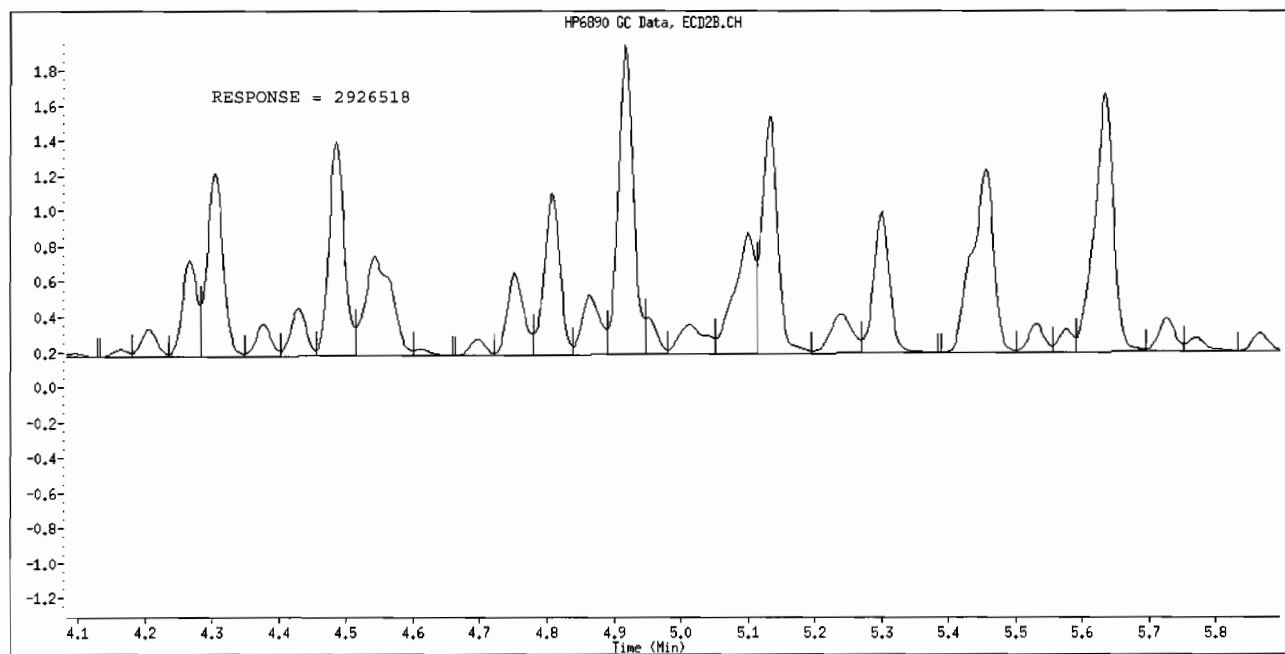
Client ID:

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL318.D  
 Report Date: 17-Apr-2010 11:42

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL318.D  
 Lab Smp Id: 1262  
 Inj Date : 16-APR-2010 15:47  
 Operator : DEK  
 Smp Info : 1262  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target  
 Cal Date : 16-APR-2010 15:47  
 Als bottle: 16  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL318.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1262.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

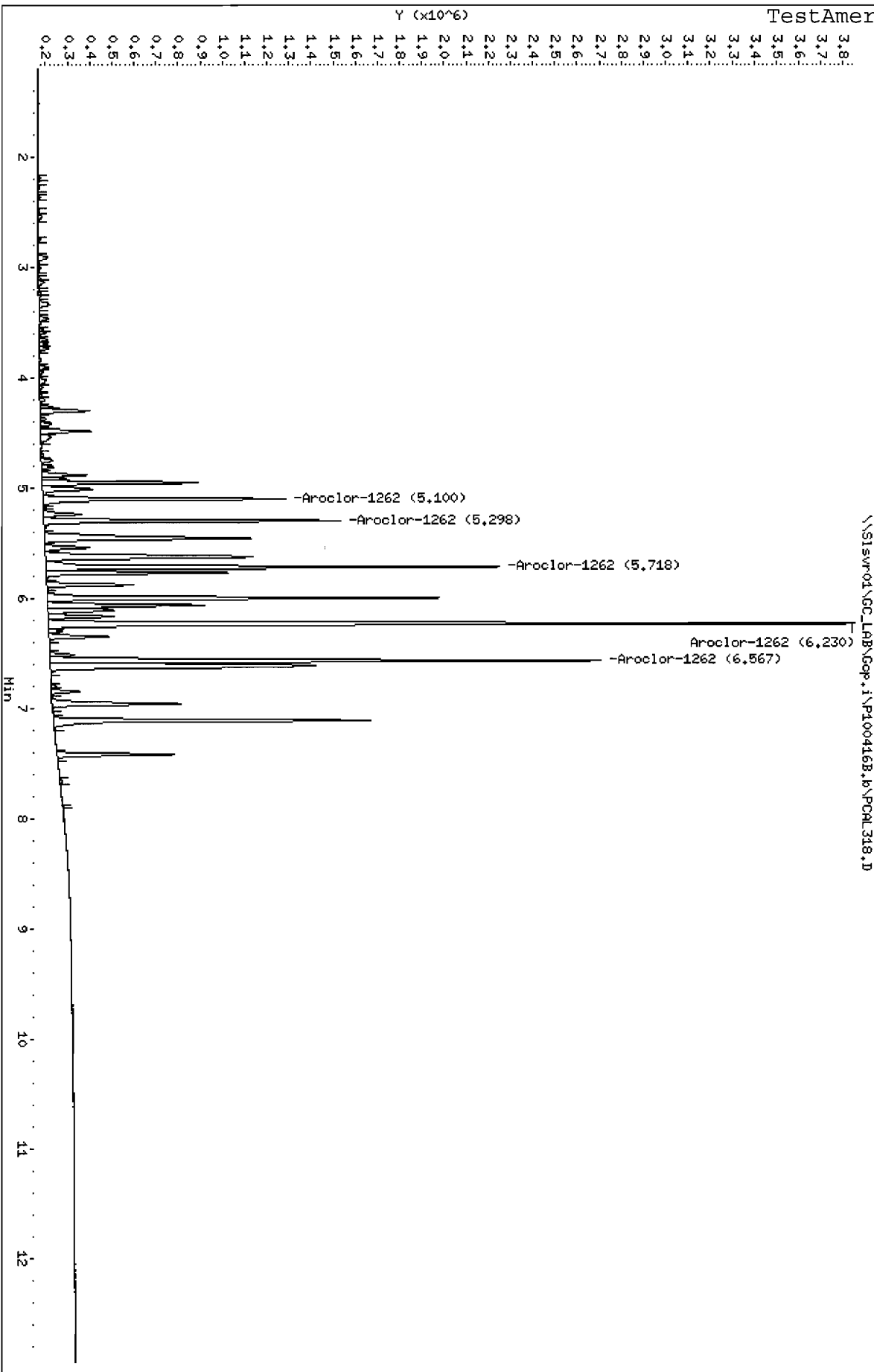
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
35	Aroclor-1262				CAS #: 37324-23-5	
5.100	5.100	0.000	1786373 500.000	500.0	20.00- 180.00	100.00 (M)
5.298	5.298	0.000	2039967 500.000	500.0	22.84- 205.55	114.20
5.718	5.718	0.000	3206896 500.000	500.0	35.90- 323.14	179.52
6.230	6.230	0.000	5705562 500.000	500.0	63.88- 574.91	319.39
6.566	6.566	0.000	4301267 500.000	500.0	48.16- 433.41	240.78
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL318.D  
 Date : 16-APR-2010 15:47  
 Client ID:  
 Sample Info: 1262  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



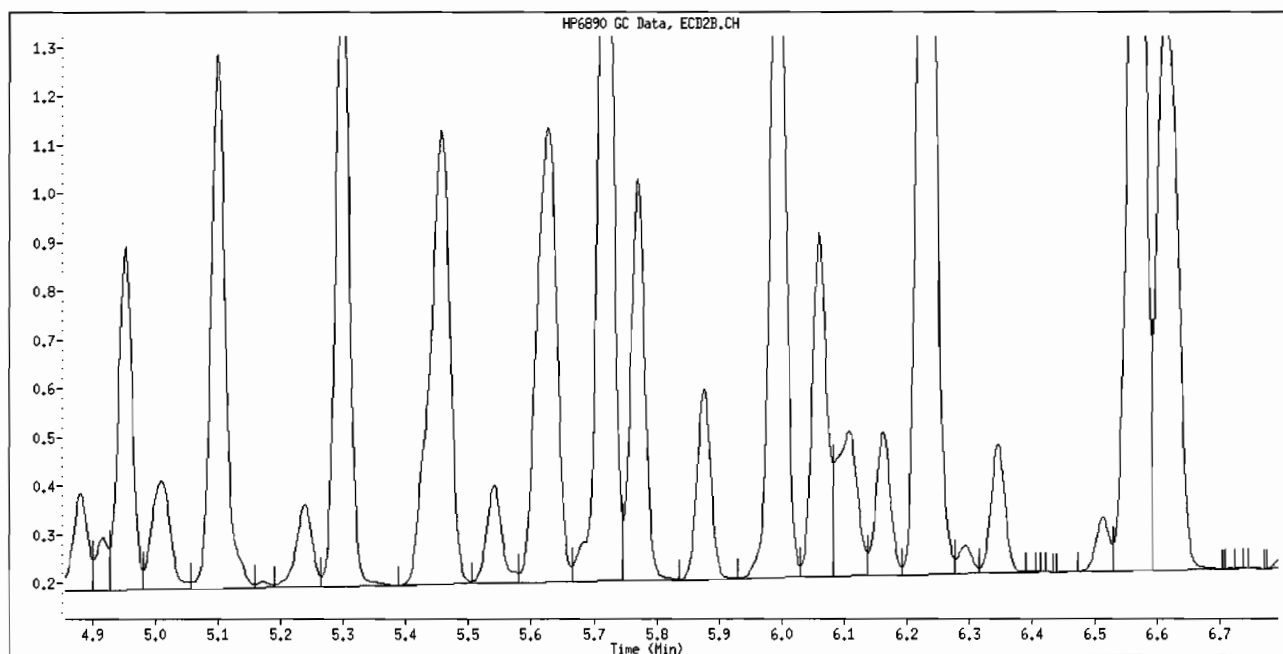
Inj. Date and Time: 16-APR-2010 15:47

Instrument ID: Gcp.i

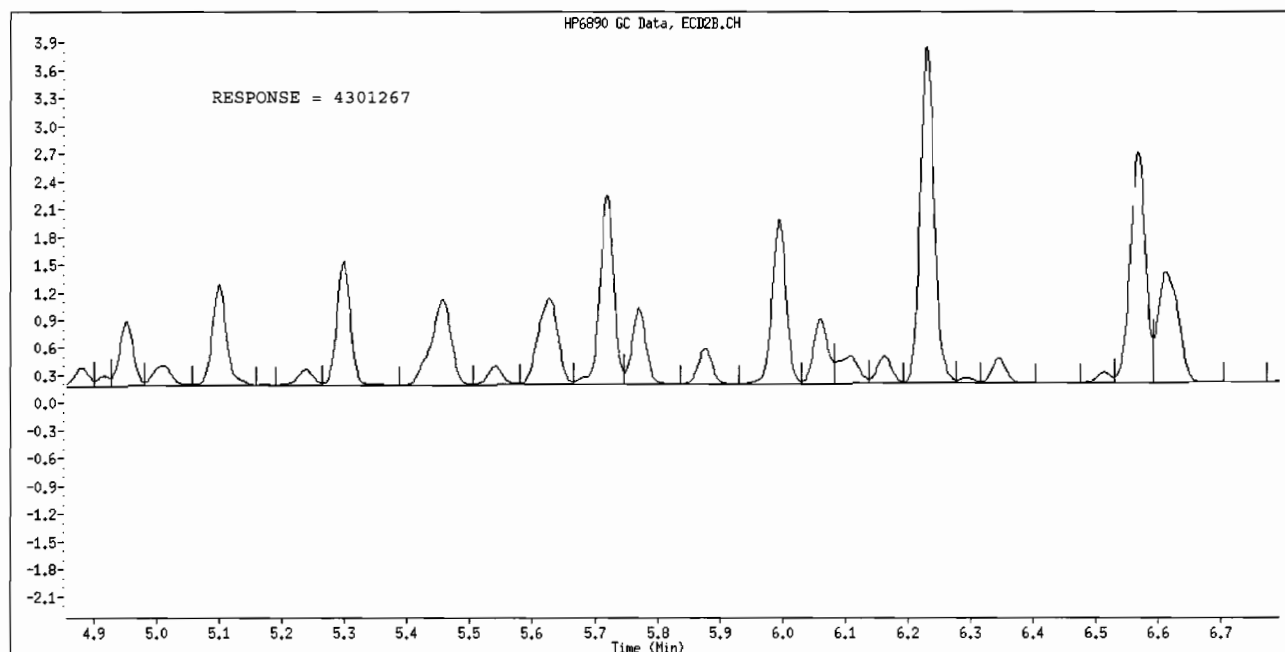
Client ID:

Compound Name: Aroclor-1262

CAS #: 37324-23-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL319.D  
 Report Date: 17-Apr-2010 11:43

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL319.D  
 Lab Smp Id: 1268  
 Inj Date : 16-APR-2010 16:06  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : 1268  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:35 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 17 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1268.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

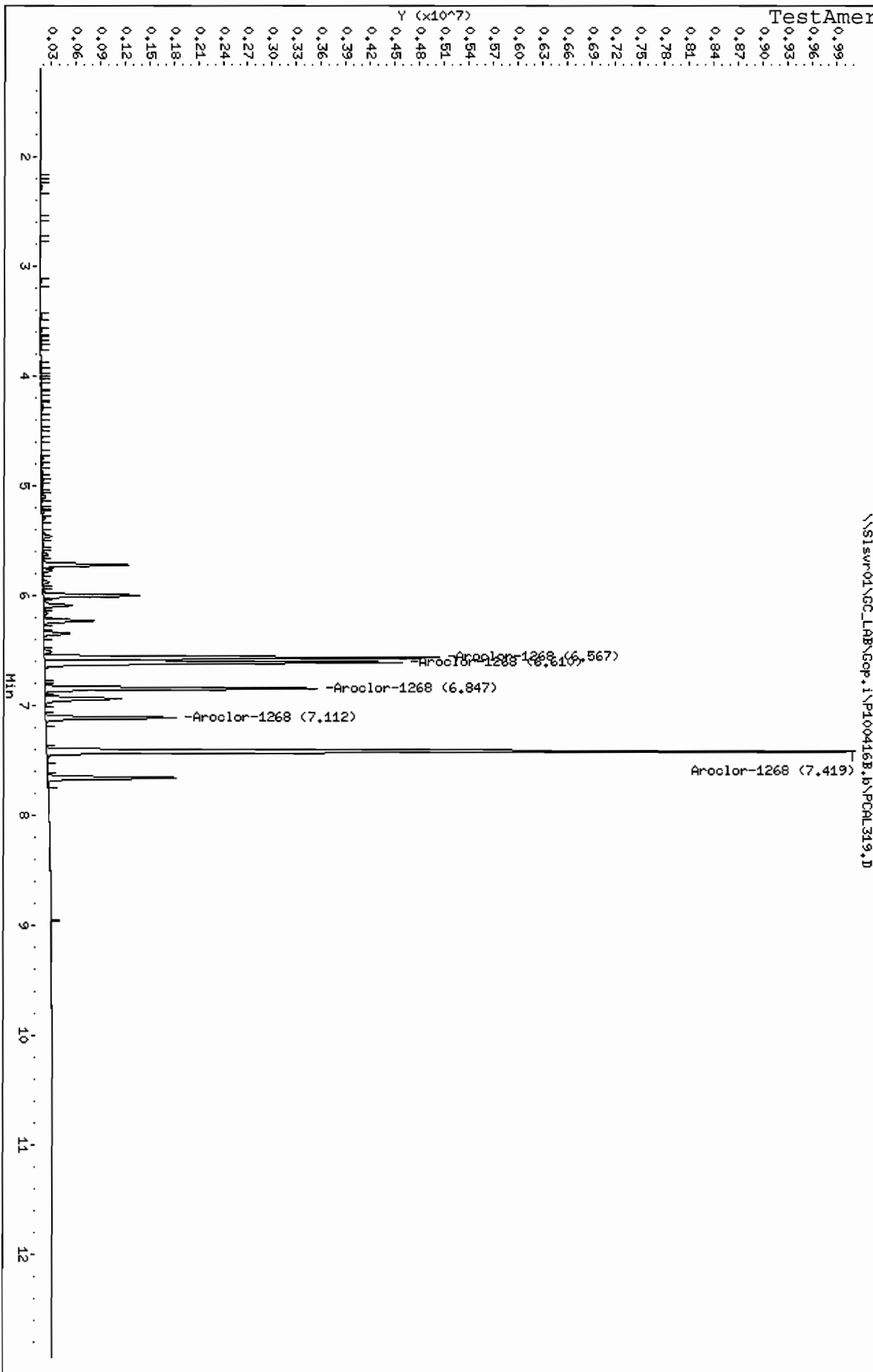
AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
36						
Aroclor-1268			CAS #: 11100-14-4			
6.566	6.566	0.000	7295584 500.000	500.0	20.00- 180.00	100.00 (M)
6.610	6.610	0.000	7435085 500.000	500.0	20.38- 183.44	101.91
6.846	6.846	0.000	5087577 500.000	500.0	13.95- 125.52	69.74
7.111	7.111	0.000	2469344 500.000	500.0	6.77- 60.92	33.85
7.418	7.418	0.000	14994541 500.000	500.0	41.11- 369.95	205.53
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gcp.i\P1004168.b\PCAL319.D  
Date: 16-APR-2010 16:06  
Client ID:  
Sample Info: 1268  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: PCAL319.D

TestAmerica St. Louis

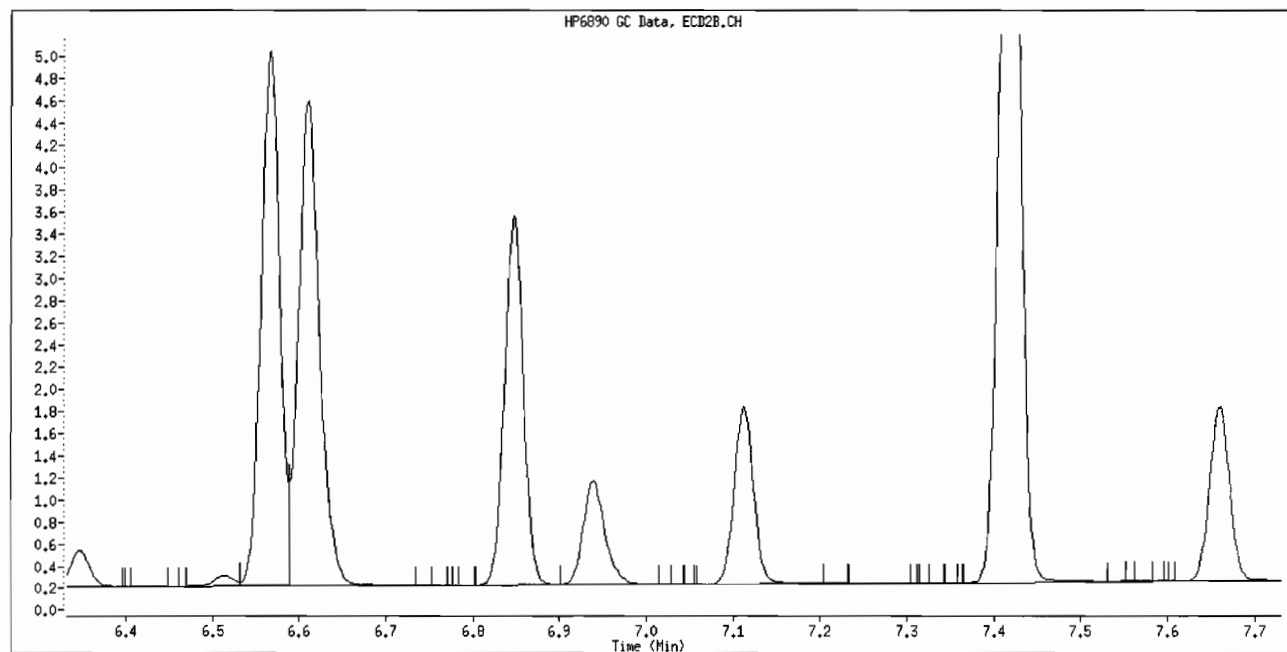
Inj. Date and Time: 16-APR-2010 16:06

Instrument ID: Gcp.i

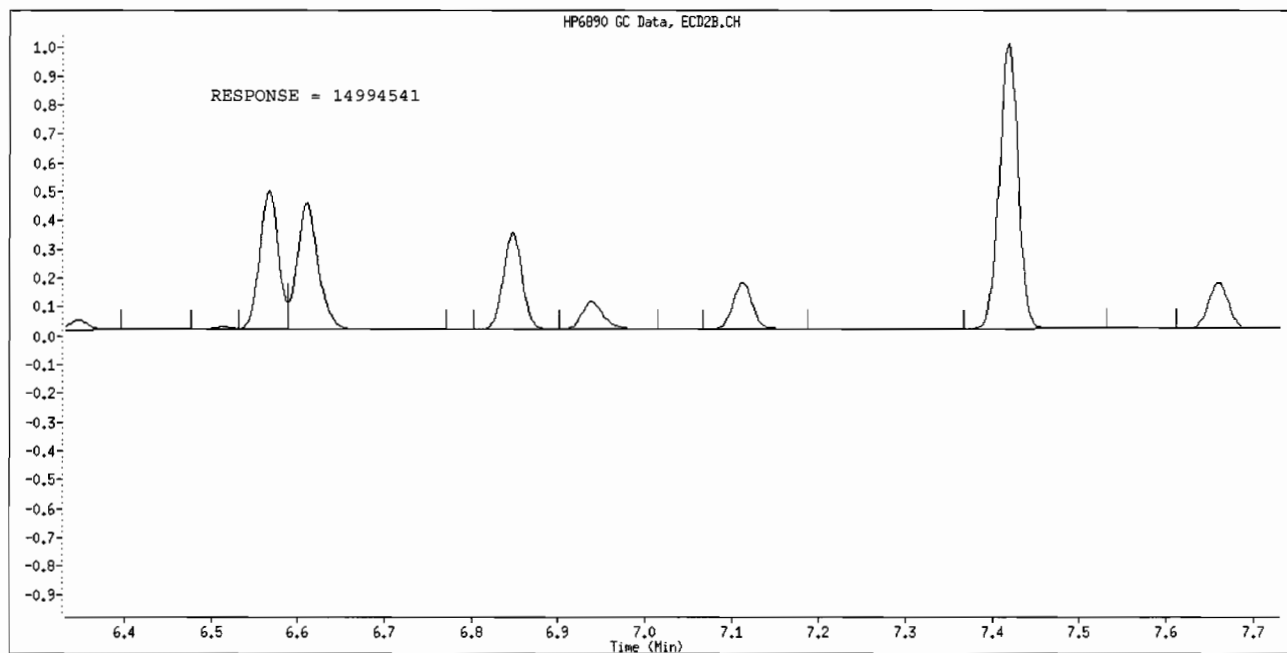
Client ID:

Compound Name: Aroclor-1268

CAS #: 11100-14-4



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

TestAmerica St. Louis

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 14:13  
 Lab File ID: PICV313.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 13:54  
 Lab Sample ID: ICV Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	1938	1837	0.010	5.21096	20.00000	Averaged
(2)	3864	3771	0.010	2.39366	20.00000	Averaged
(3)	7526	7472	0.010	0.71339	20.00000	Averaged
(4)	3225	3090	0.010	4.17621	20.00000	Averaged
(5)	2431	2341	0.010	3.68411	20.00000	Averaged
28 Aroclor-1260(1)	4581	4499	0.010	1.78525	20.00000	Averaged
(2)	5622	5593	0.010	0.51124	20.00000	Averaged
(3)	7135	7165	0.010	-0.42834	20.00000	Averaged
(4)	4546	4531	0.010	0.32715	20.00000	Averaged
(5)	10916	11178	0.010	-2.40352	20.00000	Averaged



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PICV313.D  
 Report Date: 17-Apr-2010 11:31

Page 1

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PICV313.D  
 Lab Smp Id: ICV  
 Inj Date : 16-APR-2010 14:13  
 Operator : DEK  
 Smp Info : ICV  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 11:31 target  
 Cal Date : 16-APR-2010 12:57  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL309.D  
 Continuing Calibration Sample  
 Compound Sublist: ICV.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.536	2.537	1836575	947.9	80.00- 120.00	100.00 (M)
	2.909	2.909	3771144	976.1	41.07- 369.60	205.34
	3.336	3.336	7472075	992.9	81.37- 732.33	406.85
	3.463	3.462	3090410	958.2	33.65- 302.89	168.27
	3.904	3.906	2341304	963.2	25.50- 229.47	127.48
Average of Peak Amounts =			967.660			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.099	5.101	4499139	982.1	80.00- 120.00	100.00 (M)
	5.298	5.299	5593486	994.9	24.86- 223.78	124.32
	5.631	5.631	7165072	1004	31.85- 286.66	159.25
	5.994	5.994	4530785	996.7	20.14- 181.27	100.70
	6.229	6.231	11177993	1024	49.69- 447.21	248.45
Average of Peak Amounts =			1000.34			

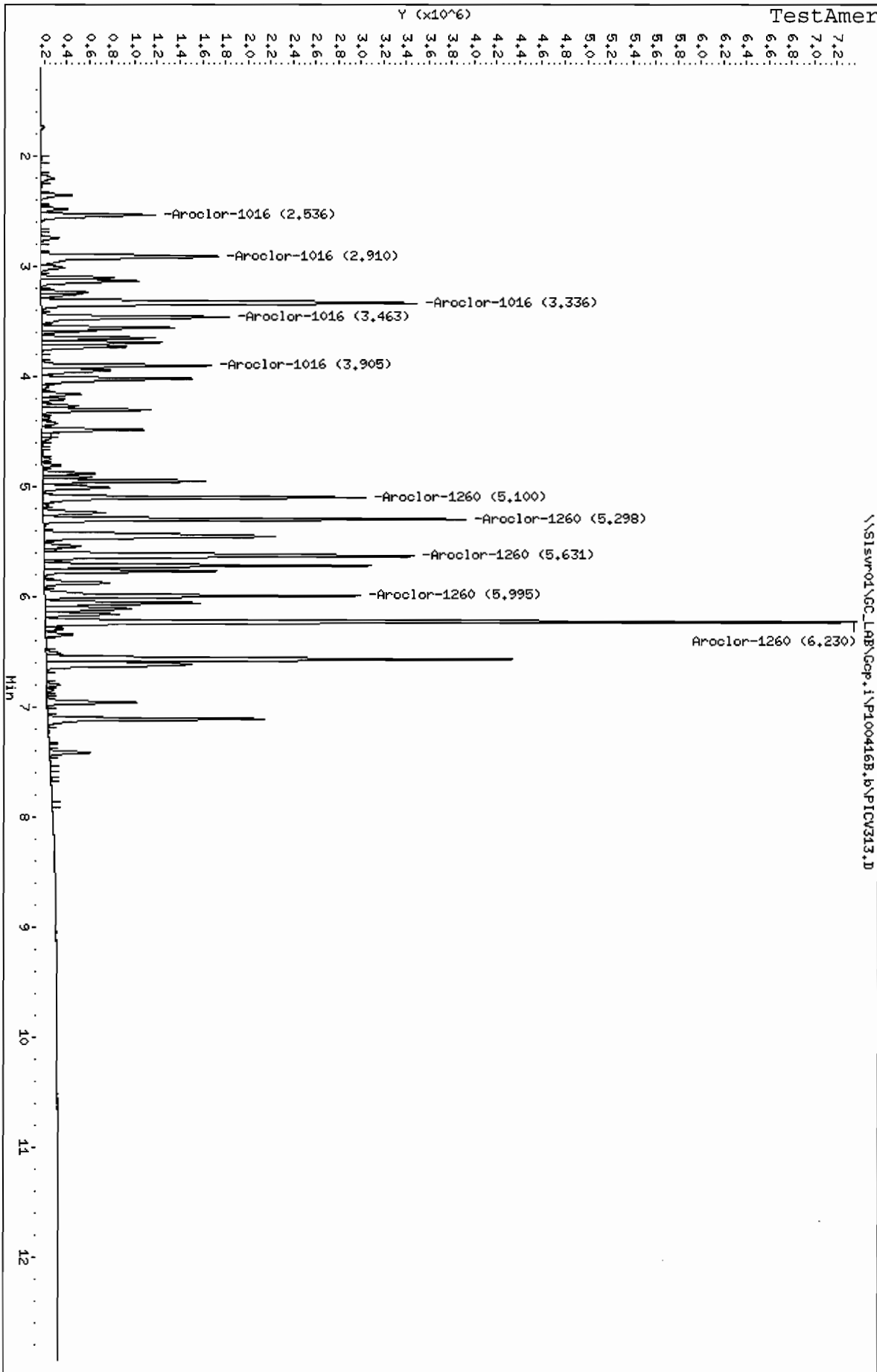
Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PICV313.D  
Report Date: 17-Apr-2010 11:31

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISVR01\GC\_LAB\Gcp.i\P100416B.b\PICV313.D  
 Date: 16-APR-2010 14:13  
 Client ID:  
 Sample Info: ICV  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PICV313.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i

Injection Date: 16-APR-2010 14:13

Lab File ID: PICV313.D

Lab Sample ID: ICV

Analysis Type: SOIL

Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\808:

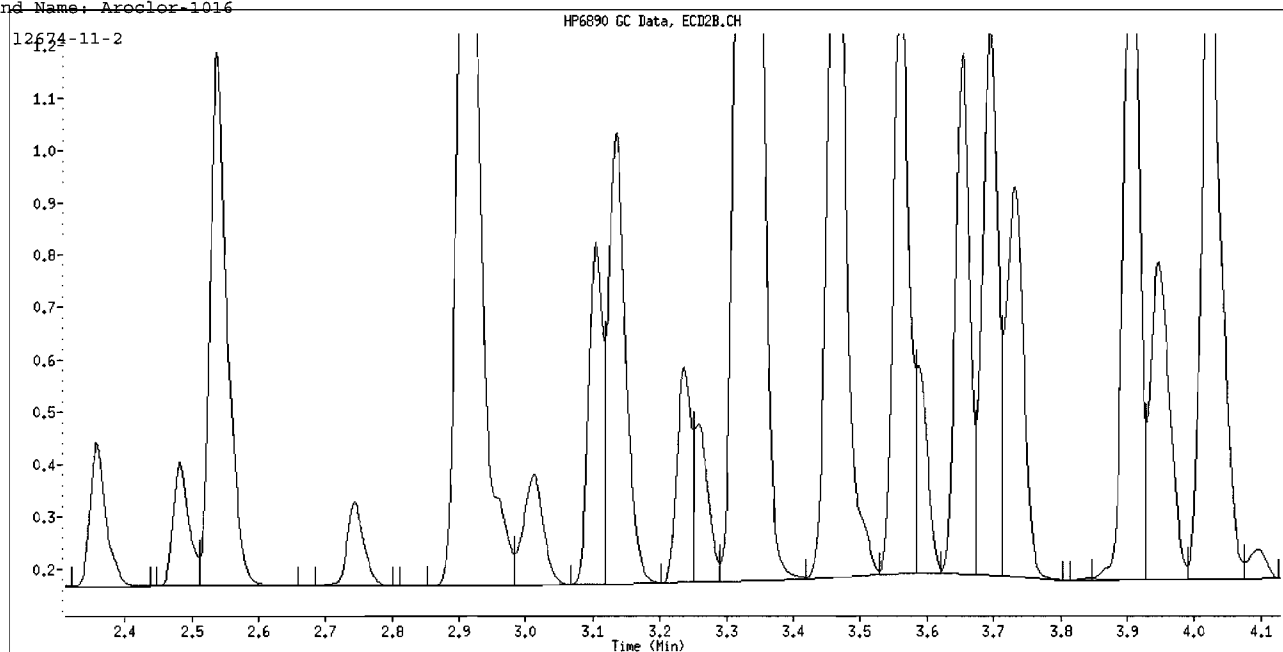
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
385875968 Aroclor-1016	1000.0000	967.6433	3.2	20.0
486539264 Aroclor-1260	1000.0000	1000.4165	0.0	20.0

Data File Name: PICV313.D

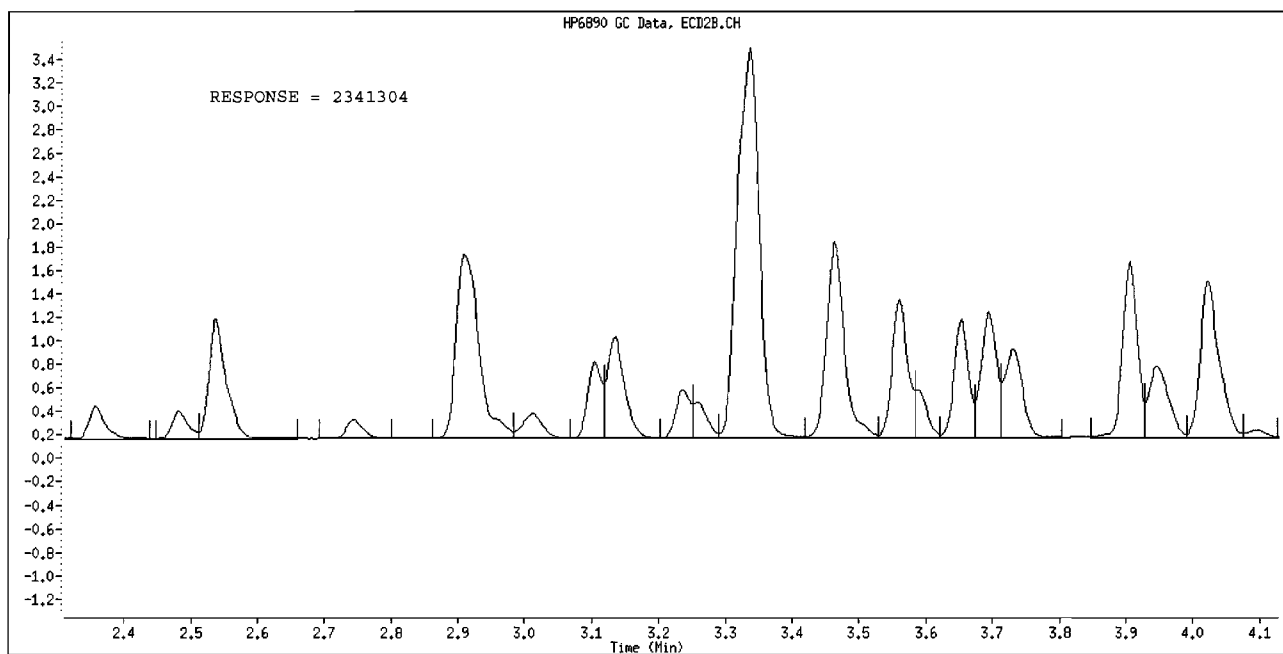
Inj. Date and Time: 16-APR-2010 14:13

Instrument ID: Gcp.i

Client ID:

Compound Name: ~~Aroclor-1016~~CAS #: ~~12674-11-2~~

Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PICV313.D

TestAmerica St. Louis

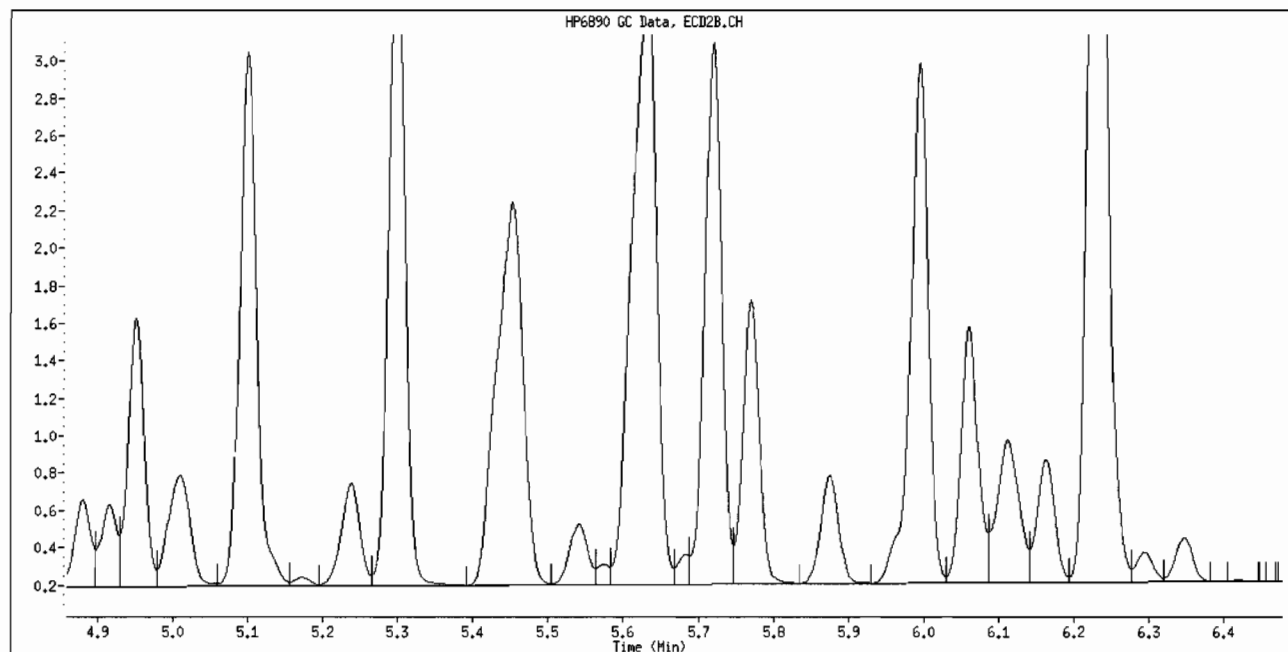
Inj. Date and Time: 16-APR-2010 14:13

Instrument ID: Gcp.i

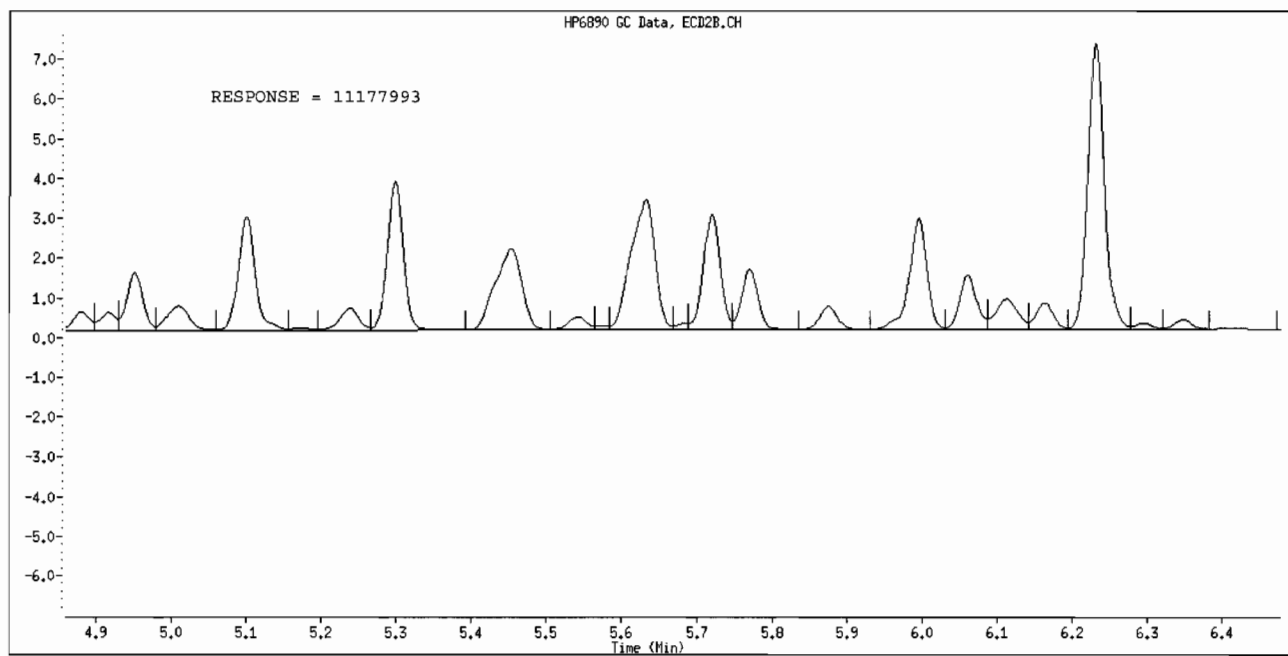
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Report Date : 29-Mar-2010 11:34

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Last Edit : 29-Mar-2010 10:08 target  
 Curve Type : Average

## Calibration File Names:

Level 1: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL899.D  
 Level 2: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL900.D  
 Level 3: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL901.D  
 Level 4: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL913.D  
 Level 5: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL903.D  
 Level 6: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL904.D  
 Level 7: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL905.D  
 Level 8: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL906.D

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000	4000.000						
	Level 7	Level 8						
-----	-----	-----	-----	-----	-----	-----	-----	-----
22 Aroclor-1016(1)	1776	1657	1533	1278	1409	1444		
	1117	1294					1439	14.902
(2)	3954	3443	3398	3105	2844	2919		
	2844	2624					3141	13.781
(3)	6621	6051	6333	6545	5822	6128		
	6630	5667					6225	5.913
(4)	2922	2673	2667	2379	2356	2424		
	2309	2239					2496	9.349
(5)	3057	2789	2814	2552	2424	2522		
	2469	2332					2620	9.293
23 Aroclor-1221(1)	++++	++++	++++	709	++++	++++		
	++++	++++					709	0.000 <-
(2)	++++	++++	++++	839	++++	++++		
	++++	++++					839	0.000 <-
(3)	++++	++++	++++	2006	++++	++++		
	++++	++++					2006	0.000 <-

Report Date : 29-Mar-2010 11:34

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcv.i\V100326A.b\8082A.m  
 Last Edit : 29-Mar-2010 10:08 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000	4000.000						
	Level 7	Level 8						
24 Aroclor-1232(1)	+++++	+++++	+++++	1712	+++++	+++++		
	+++++	+++++					1712	0.000 <-
(2)	+++++	+++++	+++++	1527	+++++	+++++		
	+++++	+++++					1527	0.000 <-
(3)	+++++	+++++	+++++	2991	+++++	+++++		
	+++++	+++++					2991	0.000 <-
(4)	+++++	+++++	+++++	922	+++++	+++++		
	+++++	+++++					922	0.000 <-
(5)	+++++	+++++	+++++	781	+++++	+++++		
	+++++	+++++					781	0.000 <-
25 Aroclor-1242(1)	+++++	+++++	+++++	2541	+++++	+++++		
	+++++	+++++					2541	0.000 <-
(2)	+++++	+++++	+++++	1165	+++++	+++++		
	+++++	+++++					1165	0.000 <-
(3)	+++++	+++++	+++++	4954	+++++	+++++		
	+++++	+++++					4954	0.000 <-
(4)	+++++	+++++	+++++	1626	+++++	+++++		
	+++++	+++++					1626	0.000 <-
(5)	+++++	+++++	+++++	1364	+++++	+++++		
	+++++	+++++					1364	0.000 <-
26 Aroclor-1248(1)	+++++	+++++	+++++	1826	+++++	+++++		
	+++++	+++++					1826	0.000 <-



Report Date : 29-Mar-2010 11:34

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcv.i\V100326A.b\8082A.m  
 Last Edit : 29-Mar-2010 10:08 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000 Level 7	4000.000 Level 8						
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	+++++	+++++	+++++	3209	+++++	+++++		
	+++++	+++++					3209	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(3)	+++++	+++++	+++++	1732	+++++	+++++		
	+++++	+++++					1732	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(4)	+++++	+++++	+++++	2540	+++++	+++++		
	+++++	+++++					2540	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(5)	+++++	+++++	+++++	2325	+++++	+++++		
	+++++	+++++					2325	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
27 Aroclor-1254(1)	+++++	+++++	+++++	2473	+++++	+++++		
	+++++	+++++					2473	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	+++++	+++++	+++++	3561	+++++	+++++		
	+++++	+++++					3561	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(3)	+++++	+++++	+++++	4408	+++++	+++++		
	+++++	+++++					4408	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(4)	+++++	+++++	+++++	3148	+++++	+++++		
	+++++	+++++					3148	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(5)	+++++	+++++	+++++	4448	+++++	+++++		
	+++++	+++++					4448	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
28 Aroclor-1260(1)	4219	3702	3846	3576	3382	3563		
	3519	3280					3636	8.068
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	5393	5069	5431	4908	4829	5150		
	5153	4715					5081	5.034
	-----	-----	-----	-----	-----	-----	-----	-----

Report Date : 29-Mar-2010 11:34

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\slsvr01\GC LAB\Gcv.i\V100326A.b\8082A.m  
 Last Edit : 29-Mar-2010 10:08 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000	4000.000						
	Level 7	Level 8						
	-----	-----	-----	-----	-----	-----	-----	-----
(3)	5643	5240	5719	5291	5067	5469		
	5442	5097					5371	4.451
	-----	-----	-----	-----	-----	-----	-----	-----
(4)	6785	6621	7409	6647	6684	7202		
	7135	6752					6905	4.343
	-----	-----	-----	-----	-----	-----	-----	-----
(5)	3853	3510	3787	3352	3297	3633		
	3488	3410					3541	5.667
	-----	-----	-----	-----	-----	-----	-----	-----
35 Aroclor-1262 (1)	+++++	+++++	+++++	2725	+++++	+++++		
	+++++	+++++					2725	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	+++++	+++++	+++++	3266	+++++	+++++		
	+++++	+++++					3266	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(3)	+++++	+++++	+++++	4300	+++++	+++++		
	+++++	+++++					4300	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(4)	+++++	+++++	+++++	7985	+++++	+++++		
	+++++	+++++					7985	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(5)	+++++	+++++	+++++	3185	+++++	+++++		
	+++++	+++++					3185	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
36 Aroclor-1268 (1)	+++++	+++++	+++++	9396	+++++	+++++		
	+++++	+++++					9396	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	+++++	+++++	+++++	10403	+++++	+++++		
	+++++	+++++					10403	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----
(3)	+++++	+++++	+++++	6520	+++++	+++++		
	+++++	+++++					6520	0.000 <-
	-----	-----	-----	-----	-----	-----	-----	-----

Report Date : 29-Mar-2010 11:34

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcv.i\V100326A.b\8082A.m  
 Last Edit : 29-Mar-2010 10:08 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000 Level 7	4000.000 Level 8						
	-----	-----	-----	-----	-----	-----		
(4)	+++++	+++++	+++++	2994	+++++	+++++		
	+++++	+++++					2994	0.000 <-
	-----	-----	-----	-----	-----	-----		
(5)	+++++	+++++	+++++	17897	+++++	+++++		
	+++++	+++++					17897	0.000 <-
	-----	-----	-----	-----	-----	-----		
M 37 PCB (Total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
	-----	-----	-----	-----	-----	-----		
	-----	-----	-----	-----	-----	-----		
\$ 32 Decachlorobiphenyl	56202	55575	45572	47931	46398	50699		
	41080	47895					48919	10.410

Report Date : 29-Mar-2010 11:34

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Quant Method : ESTD Target Version : 4.14  
 Last Update : 29-Mar-2010 10:08 Number of Cpnds : 11  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      500.000000
Initial:End Threshold        30.000000
Initial:Area Threshold       100.000000
Initial:P-P Resolution       2.000000
Initial:Bunch Factor         0.000000
Initial:Negative Peaks       OFF
Initial:Tension              0.200000
  0.000:Integrator OFF      n/a
  1.200:Integrator ON       n/a
  8.000:Integrator OFF      n/a

```

Compound	RT	RT Window	RF
22 Aroclor-1016	2.220	2.130-2.310	1.44e+003
	2.510	2.420-2.600	3.14e+003
	2.910	2.820-3.000	6.22e+003
	3.029	2.939-3.119	2.50e+003
	3.392	3.302-3.482	2.62e+003
23 Aroclor-1221	1.581	1.491-1.671	7.09e+002
	2.071	1.981-2.161	8.39e+002
	2.221	2.131-2.311	2.01e+003
24 Aroclor-1232	2.220	2.130-2.310	1.71e+003
	2.511	2.421-2.601	1.53e+003
	2.911	2.821-3.001	2.99e+003
	3.803	3.713-3.893	9.22e+002
	3.983	3.893-4.073	7.81e+002
25 Aroclor-1242	2.510	2.420-2.600	2.54e+003
	2.683	2.593-2.773	1.16e+003
	2.912	2.822-3.002	4.95e+003
	3.803	3.713-3.893	1.63e+003
	3.982	3.892-4.072	1.36e+003
26 Aroclor-1248	2.909	2.819-2.999	1.83e+003
	3.393	3.303-3.483	3.21e+003
	3.469	3.379-3.559	1.73e+003
	3.801	3.711-3.891	2.54e+003
	3.981	3.891-4.071	2.33e+003
27 Aroclor-1254	3.739	3.649-3.829	2.47e+003
	3.979	3.889-4.069	3.56e+003
	4.343	4.253-4.433	4.41e+003
	4.773	4.683-4.863	3.15e+003
	5.031	4.941-5.121	4.45e+003

Report Date : 29-Mar-2010 11:34

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

Compound	RT	RT Window	RF
28 Aroclor-1260	4.512	4.422-4.602	3.64e+003
	4.770	4.680-4.860	5.08e+003
	5.029	4.939-5.119	5.37e+003
	5.652	5.562-5.742	6.90e+003
	5.914	5.824-6.004	3.54e+003
35 Aroclor-1262	4.512	4.422-4.602	2.72e+003
	4.772	4.682-4.862	3.27e+003
	5.137	5.047-5.227	4.30e+003
	5.653	5.563-5.743	7.99e+003
	5.950	5.860-6.040	3.18e+003
36 Aroclor-1268	5.949	5.859-6.039	9.40e+003
	5.986	5.896-6.076	1.04e+004
	6.164	6.074-6.254	6.52e+003
	6.496	6.406-6.586	2.99e+003
	6.761	6.671-6.851	1.79e+004
M 37 PCB (Total)	1.000	0.920-1.080	
\$ 32 Decachlorobiphenyl	6.934	6.844-7.024	4.89e+004

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL899.D  
Report Date: 26-Mar-2010 12:32

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## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL899.D  
Lab Smp Id: ICAL-1  
Inj Date : 26-MAR-2010 09:49  
Operator : DEK Inst ID: Gcv.i  
Smp Info : ICAL-1  
Misc Info :  
Comment :  
Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
Meth Date : 26-Mar-2010 12:30 target Quant Type: ESTD  
Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
Als bottle: 3 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: Ar1660.sub  
Target Version: 4.14 Sample Matrix: SOIL  
Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.218	2.220	88814	61.74	80.00- 120.00	100.00 (M)
	2.508	2.510	197693	62.93	161.45- 242.18	222.59
	2.908	2.910	331055	53.18	330.47- 495.70	372.75
	3.027	3.028	146088	58.53	133.74- 200.62	164.49
	3.392	3.391	152825	58.33	137.59- 206.38	172.07

Average of Peak Amounts = 58.9420

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.510	4.511	210964	58.02	80.00- 120.00	100.00 (M)
	4.768	4.770	269668	53.07	114.22- 171.34	127.83
	5.027	5.028	282126	52.53	119.87- 179.80	133.73
	5.652	5.651	339252	49.13	158.12- 237.17	160.81
	5.912	5.913	192635	54.40	77.99- 116.99	91.31

Average of Peak Amounts = 53.4300

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.933	6.933	140504	2.872		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL899.D  
Report Date: 26-Mar-2010 12:32

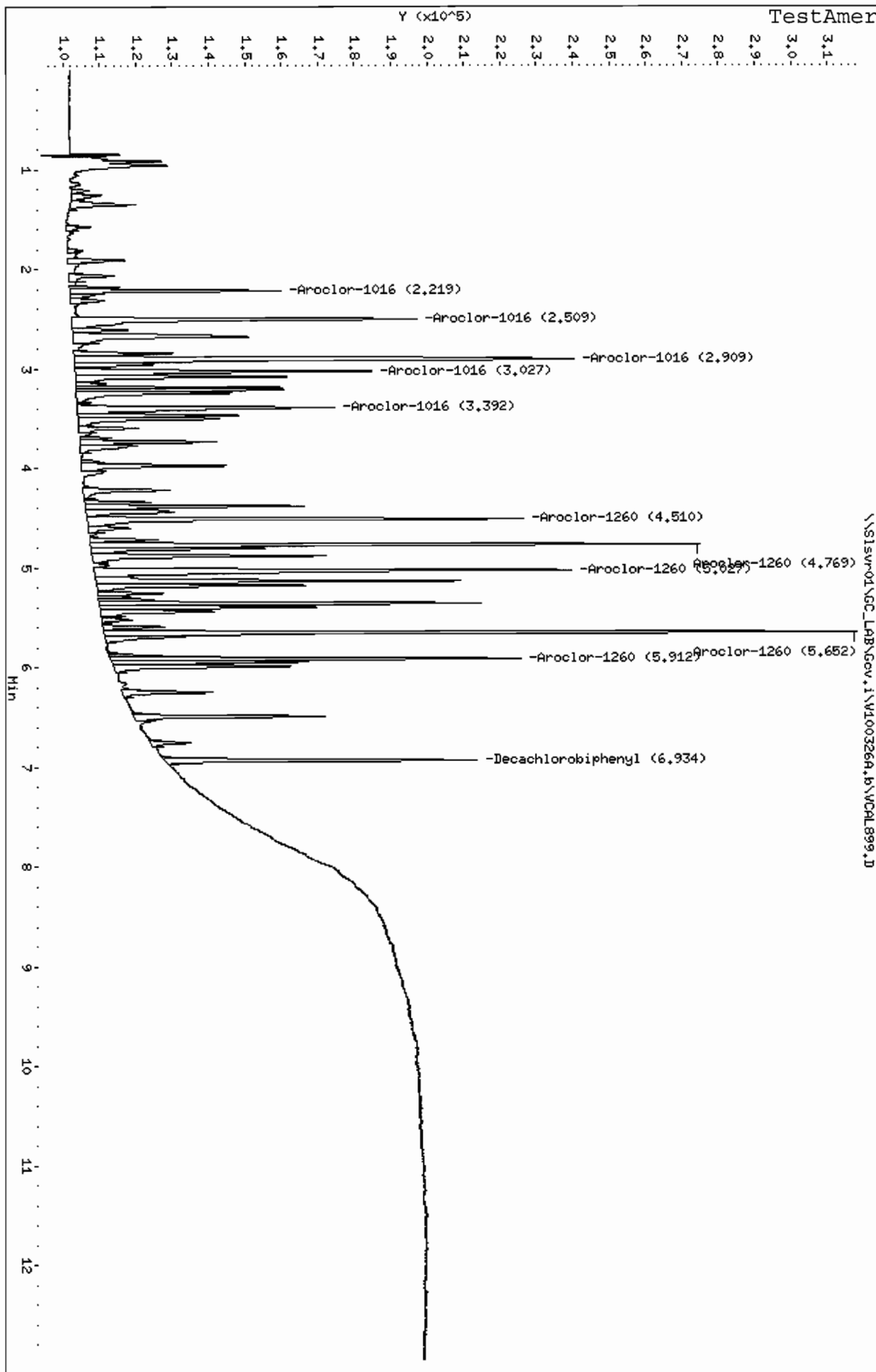
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SLswr01\GC\_LAB\Gov.i\VA100326A.b\WCAL899.J  
Date: 26-MAR-2010 09:49  
Client ID:  
Sample Info: ICAL-1  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

Page 1





Data File Name: VCAL899.D

TestAmerica St. Louis

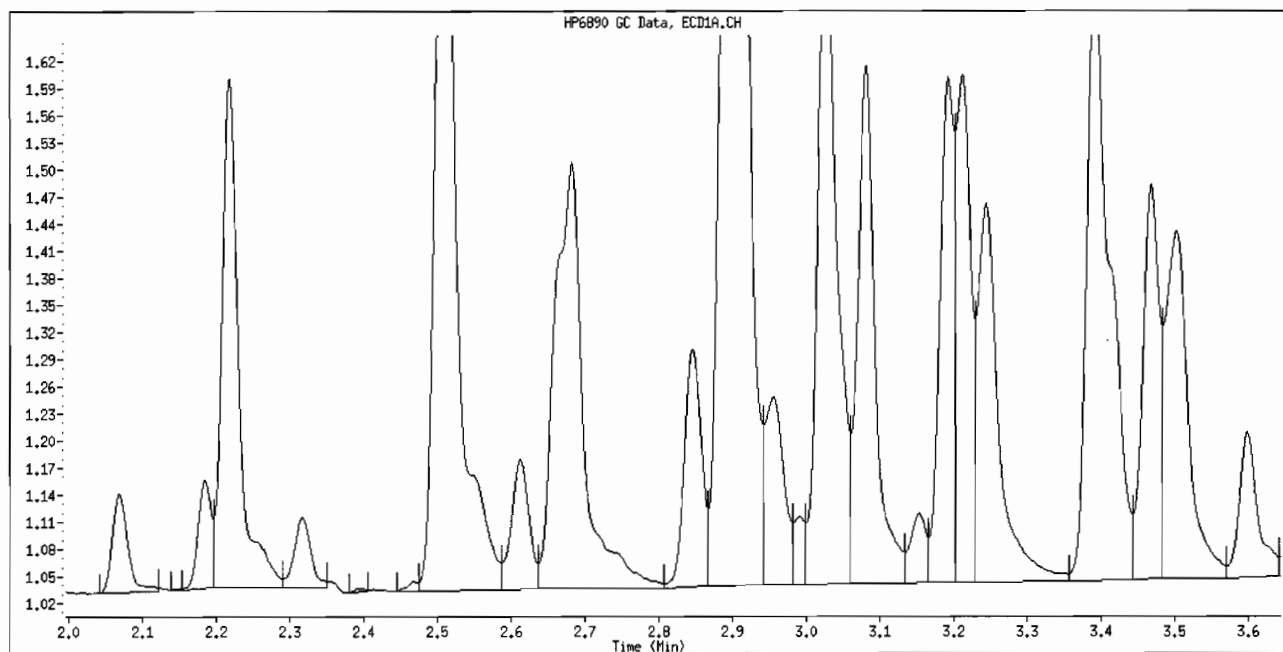
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

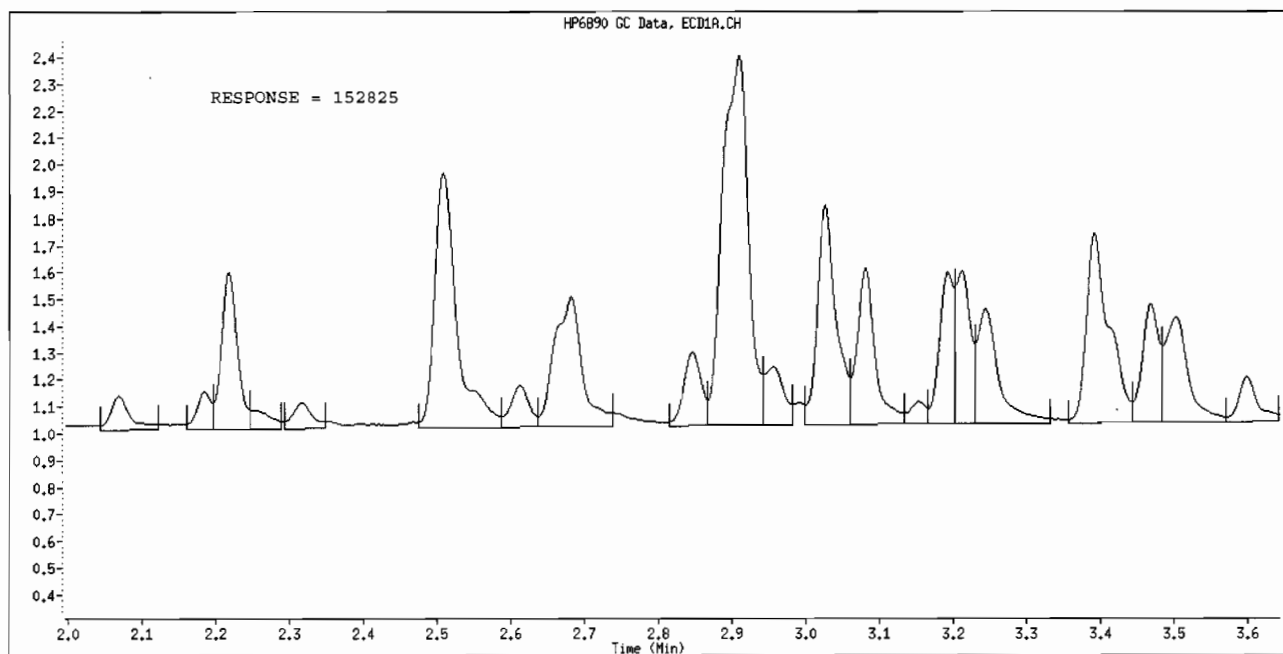
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL899.D

TestAmerica St. Louis

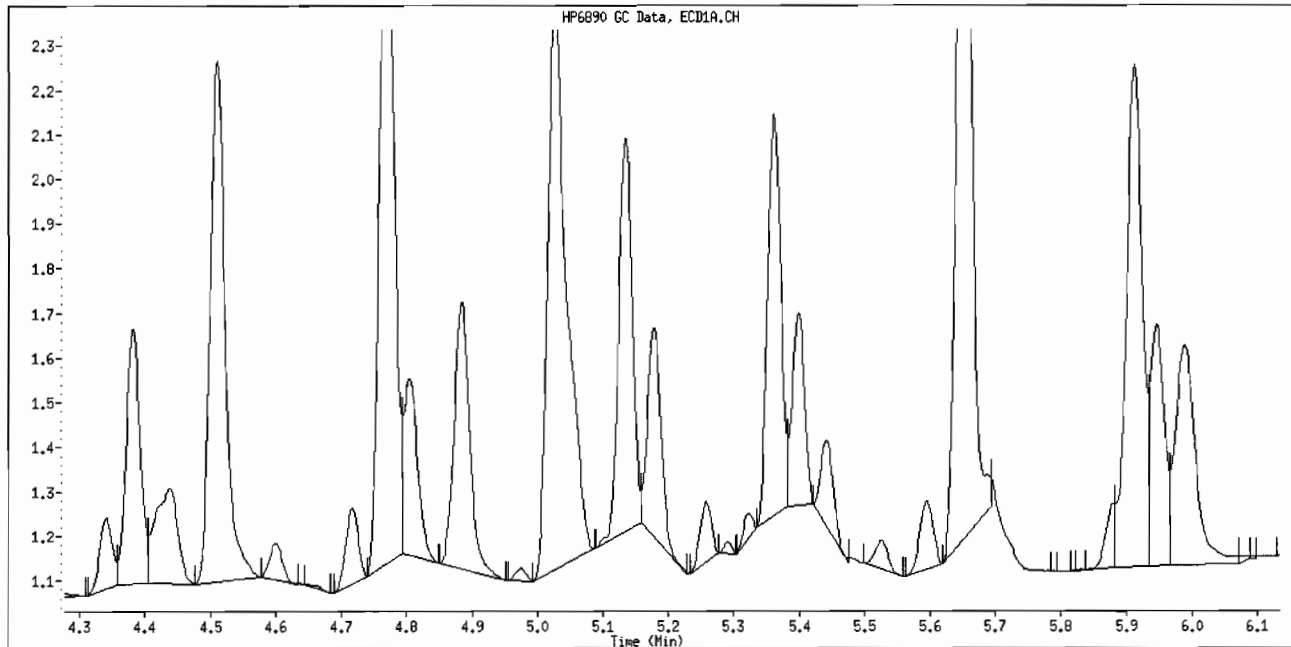
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

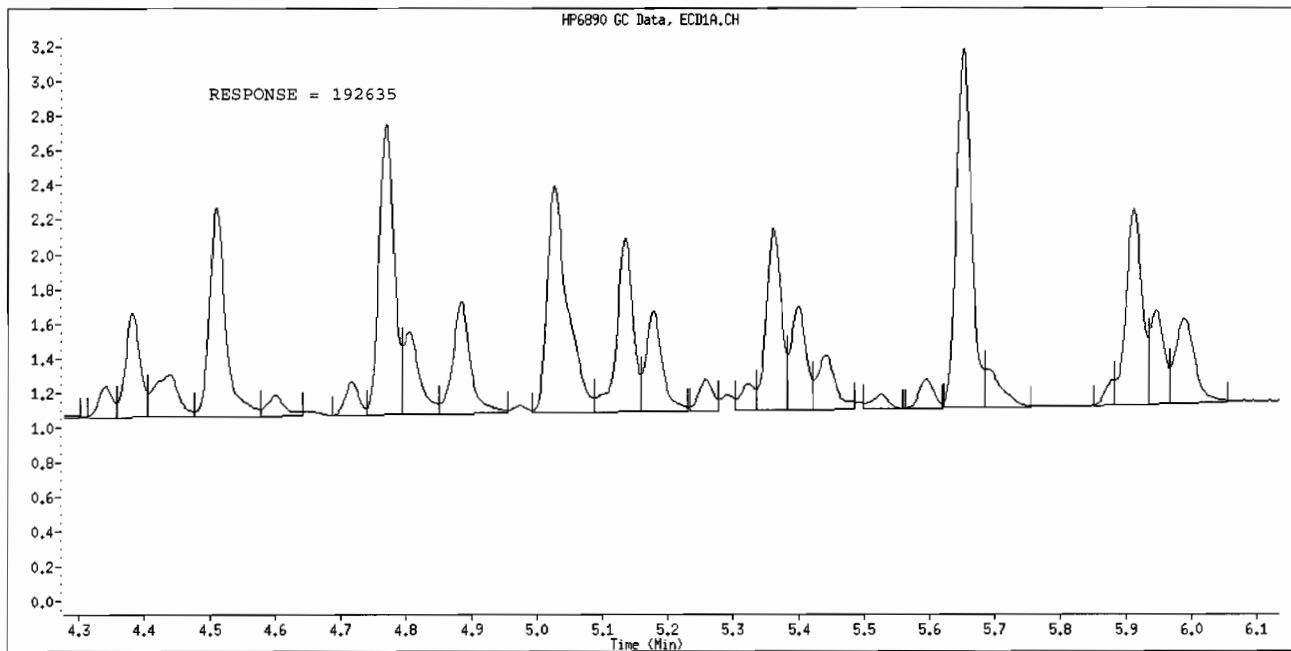
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL899.D

TestAmerica St. Louis

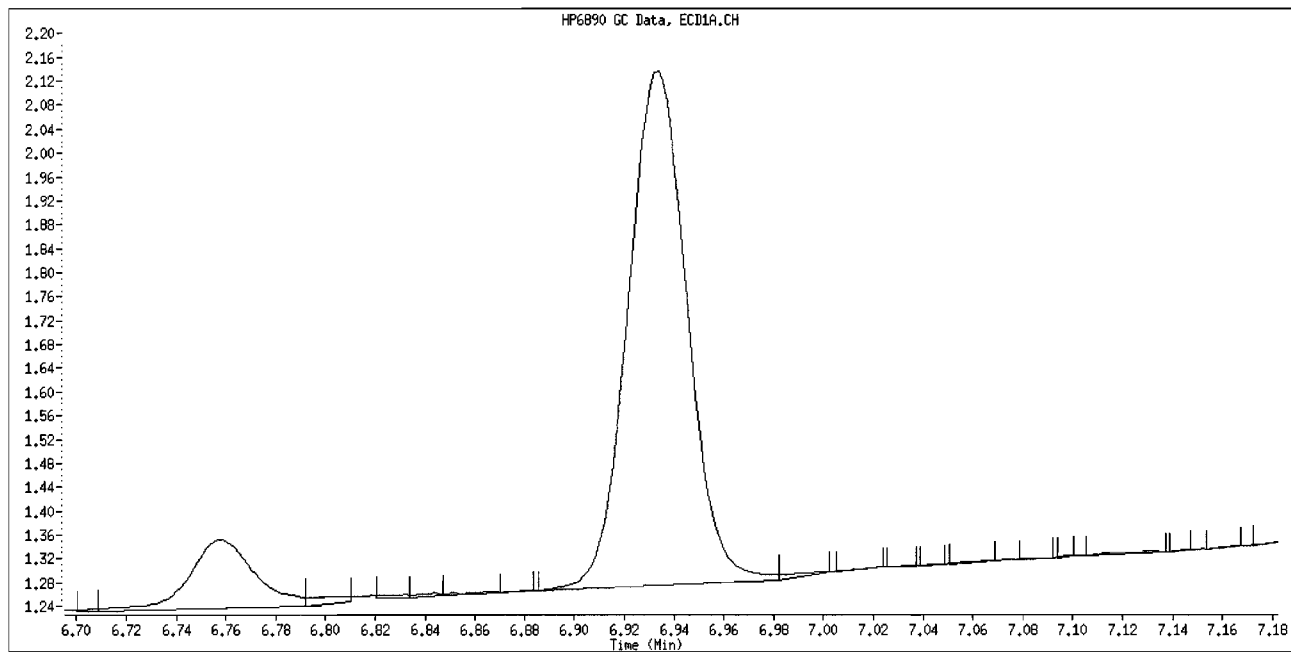
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

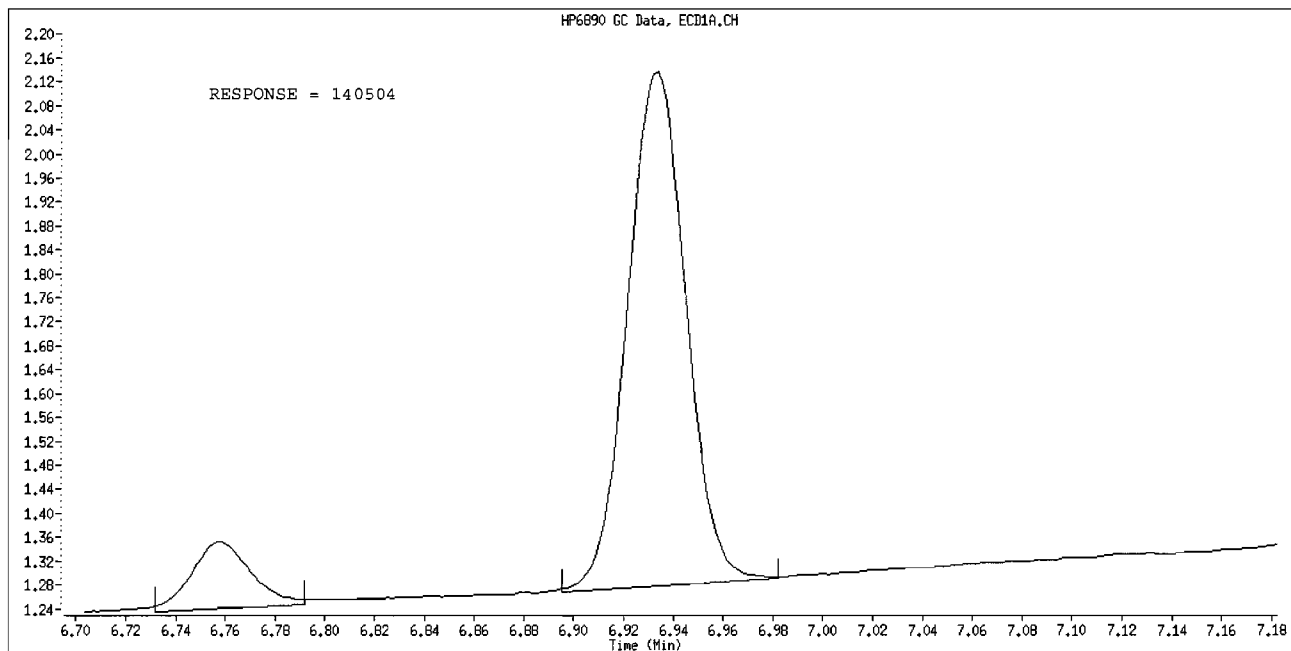
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL900.D

Page 1

Report Date: 26-Mar-2010 12:32

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL900.D

Lab Smp Id: ICAL-2

Inj Date : 26-MAR-2010 10:07

Operator : DEK

Inst ID: Gcv.i

Smp Info : ICAL-2

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

Meth Date : 26-Mar-2010 12:30 target

Quant Type: ESTD

Cal Date : 26-MAR-2010 11:03

Cal File: VCAL903.D

Als bottle: 4

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1660.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.219	2.220	165673	115.2	80.00- 120.00	100.00 (M)
	2.509	2.510	344308	109.6	161.45- 242.18	207.82
	2.909	2.910	605116	97.21	330.47- 495.70	365.25
	3.027	3.028	267271	107.1	133.74- 200.62	161.32
	3.392	3.391	278854	106.4	137.59- 206.38	168.32
Average of Peak Amounts =			107.102			

28	4.510	4.511	370173	101.8	80.00- 120.00	100.00 (M)
	4.769	4.770	506862	99.76	114.22- 171.34	136.93
	5.027	5.028	523968	97.56	119.87- 179.80	141.55
	5.650	5.651	662114	95.89	158.12- 237.17	178.87
	5.912	5.913	351035	99.13	77.99- 116.99	94.83
Average of Peak Amounts =			98.8280			

\$ 32	6.932	6.933	277876	5.680		(M)
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Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL900.D  
Report Date: 26-Mar-2010 12:32

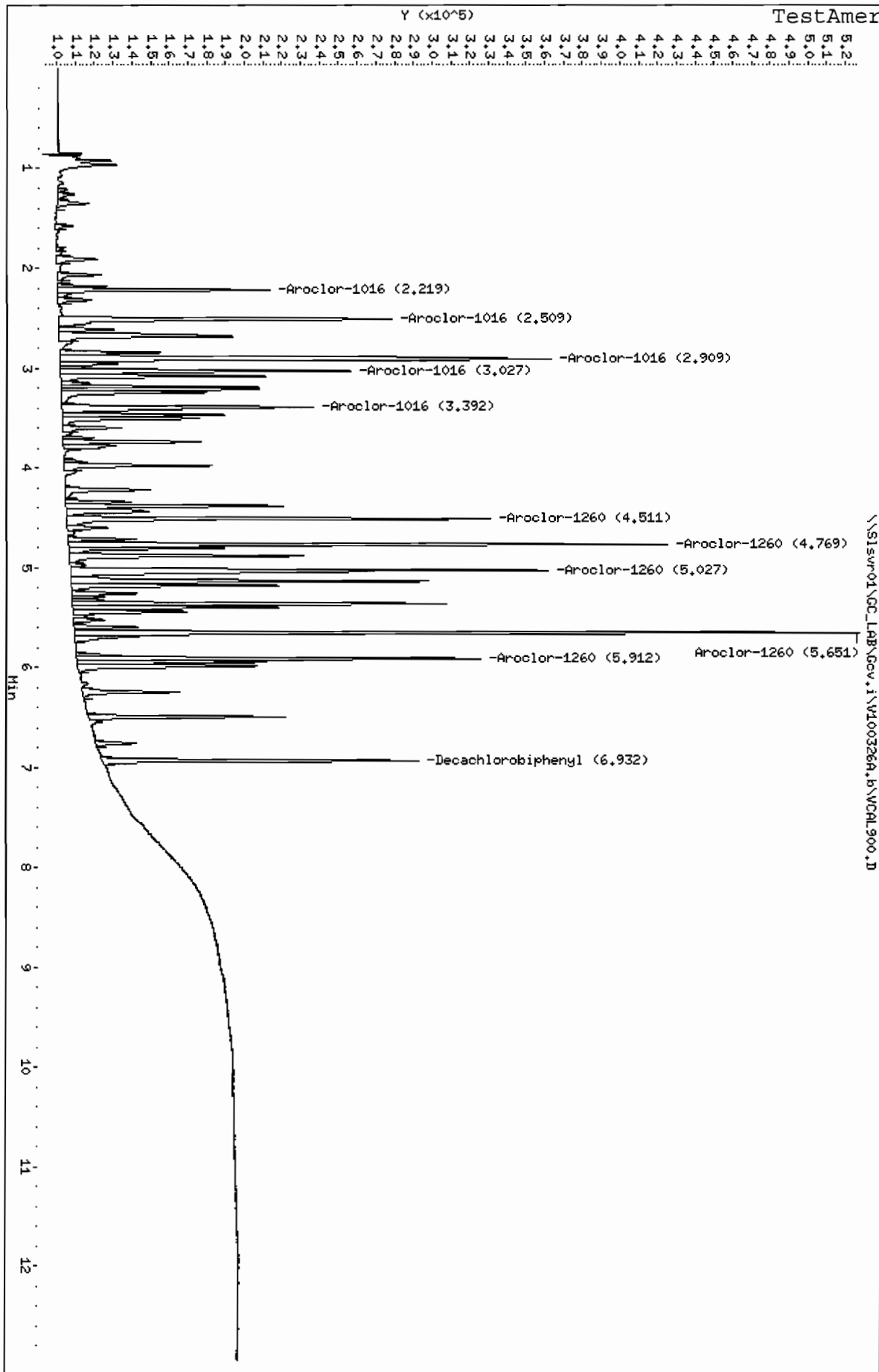
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\W100326A.b\WCAL900.D  
Date: 26-MAR-2010 10:07  
Client ID:  
Sample Info: ICAL-2  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: VCAL900.D

TestAmerica St. Louis

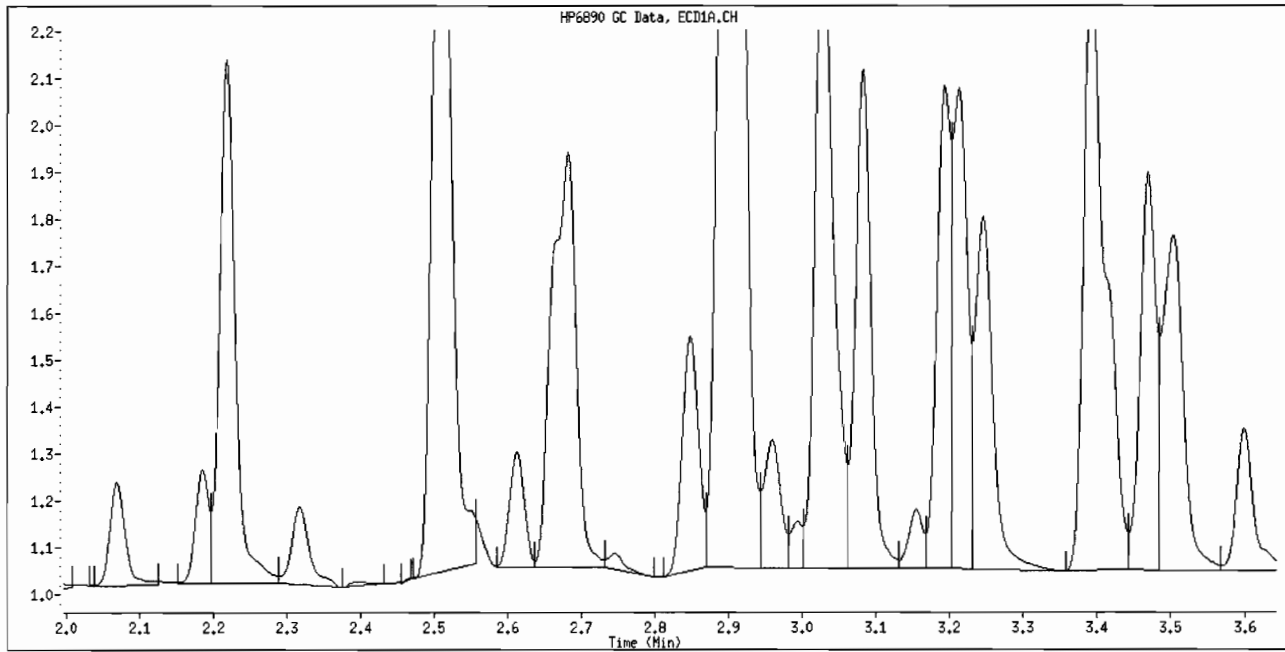
Inj. Date and Time: 26-MAR-2010 10:07

Instrument ID: Gcv.i

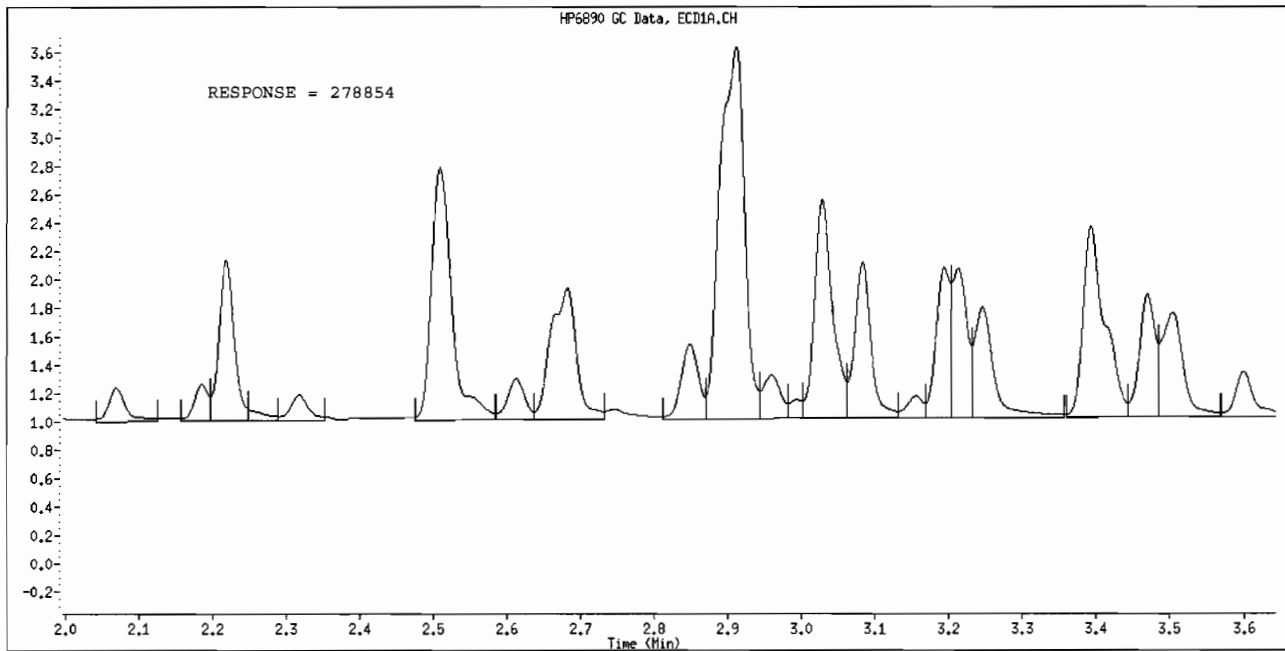
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



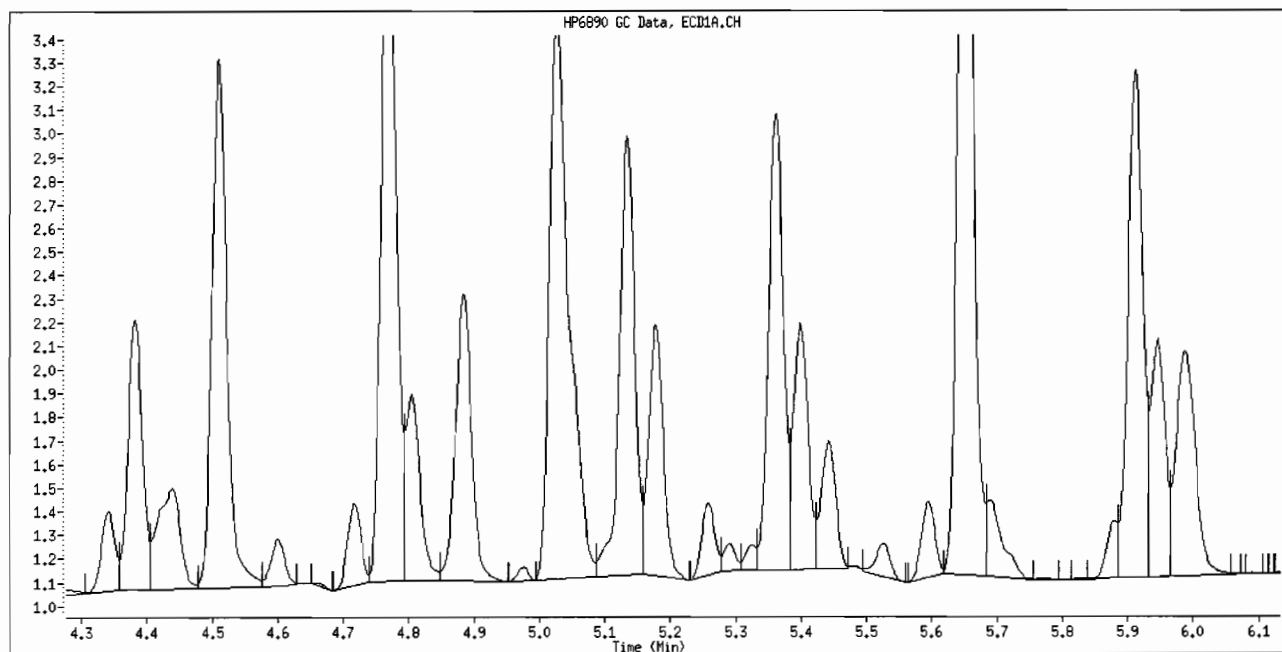
Manual Integration

Manually Integrated By: konopkad

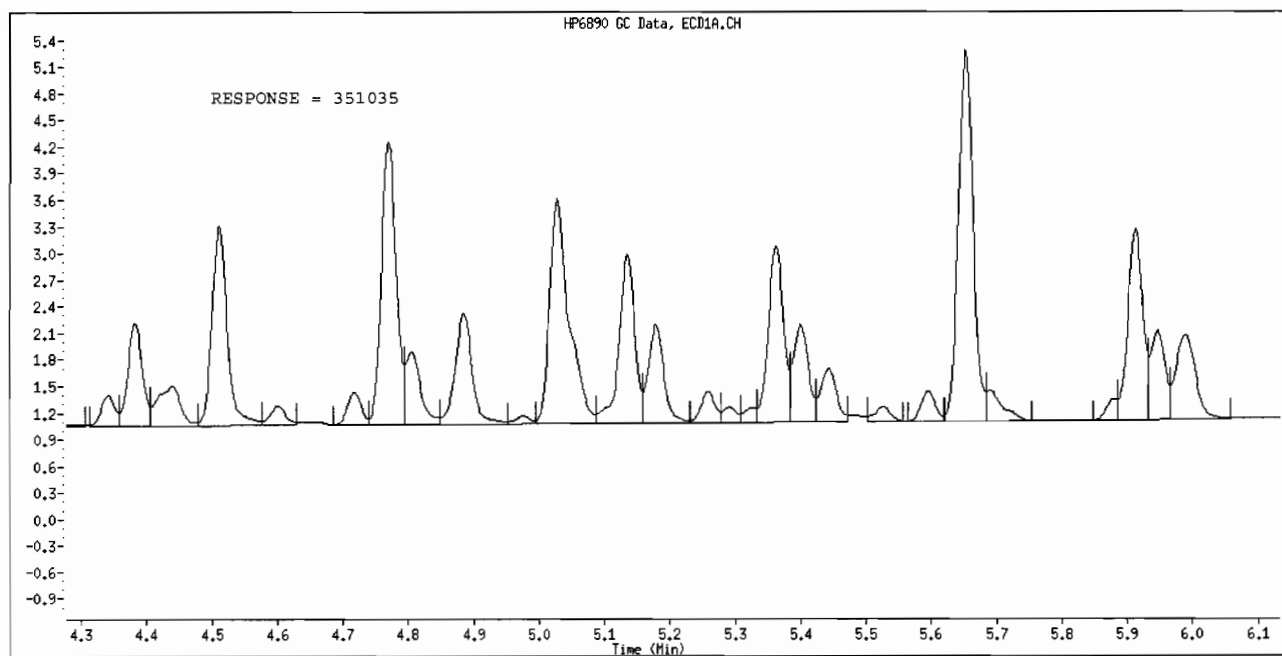
Manual Integration Reason: Baseline Event

Data File Name: VCAL900.D  
Inj. Date and Time: 26-MAR-2010 10:07  
Instrument ID: Gcv.i  
Client ID:  
Compound Name: Aroclor-1260  
CAS #: 11096-82-5

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event



Data File Name: VCAL900.D

TestAmerica St. Louis

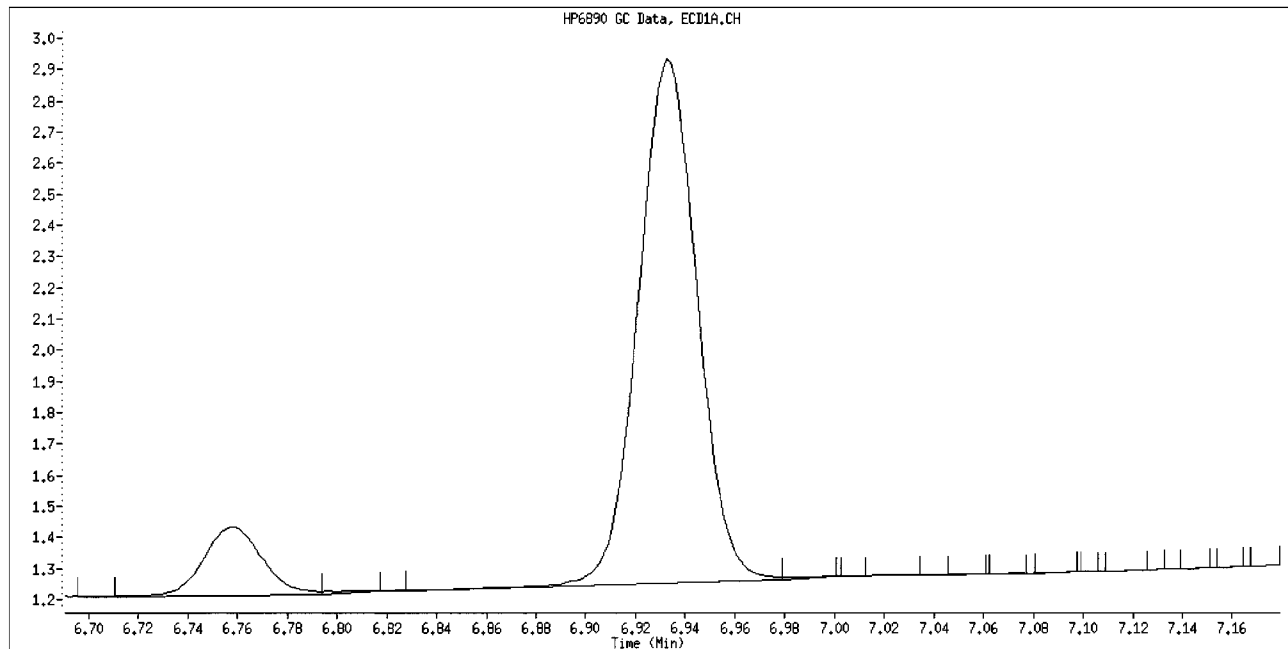
Inj. Date and Time: 26-MAR-2010 10:07

Instrument ID: Gcv.i

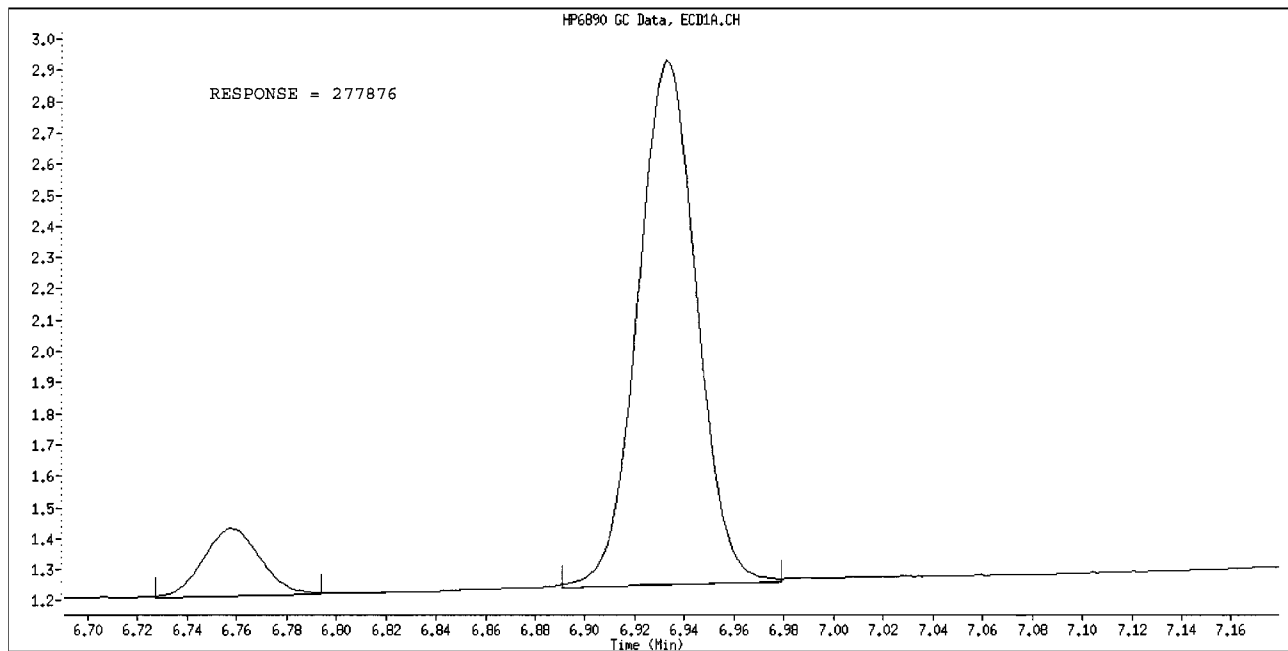
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL901.D  
 Report Date: 26-Mar-2010 12:32

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL901.D  
 Lab Smp Id: ICAL-3  
 Inj Date : 26-MAR-2010 10:26  
 Operator : DEK  
 Smp Info : ICAL-3  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 12:30 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Calibration Sample, Level: 3  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.218	2.220	306697	213.2	80.00- 120.00	100.00 (M)
	2.508	2.510	679587	216.3	161.45- 242.18	221.58
	2.910	2.910	1266675	203.5	330.47- 495.70	413.01
	3.026	3.028	533364	213.7	133.74- 200.62	173.91
	3.391	3.391	562855	214.8	137.59- 206.38	183.52
Average of Peak Amounts =			212.300			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.511	4.511	769218	211.6	80.00- 120.00	100.00 (M)
	4.770	4.770	1086187	213.8	114.22- 171.34	141.21
	5.028	5.028	1143743	213.0	119.87- 179.80	148.69
	5.651	5.651	1481882	214.6	158.12- 237.17	192.65
	5.913	5.913	757333	213.9	77.99- 116.99	98.45
Average of Peak Amounts =			213.380			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.933	6.933	569654	11.64		(M)

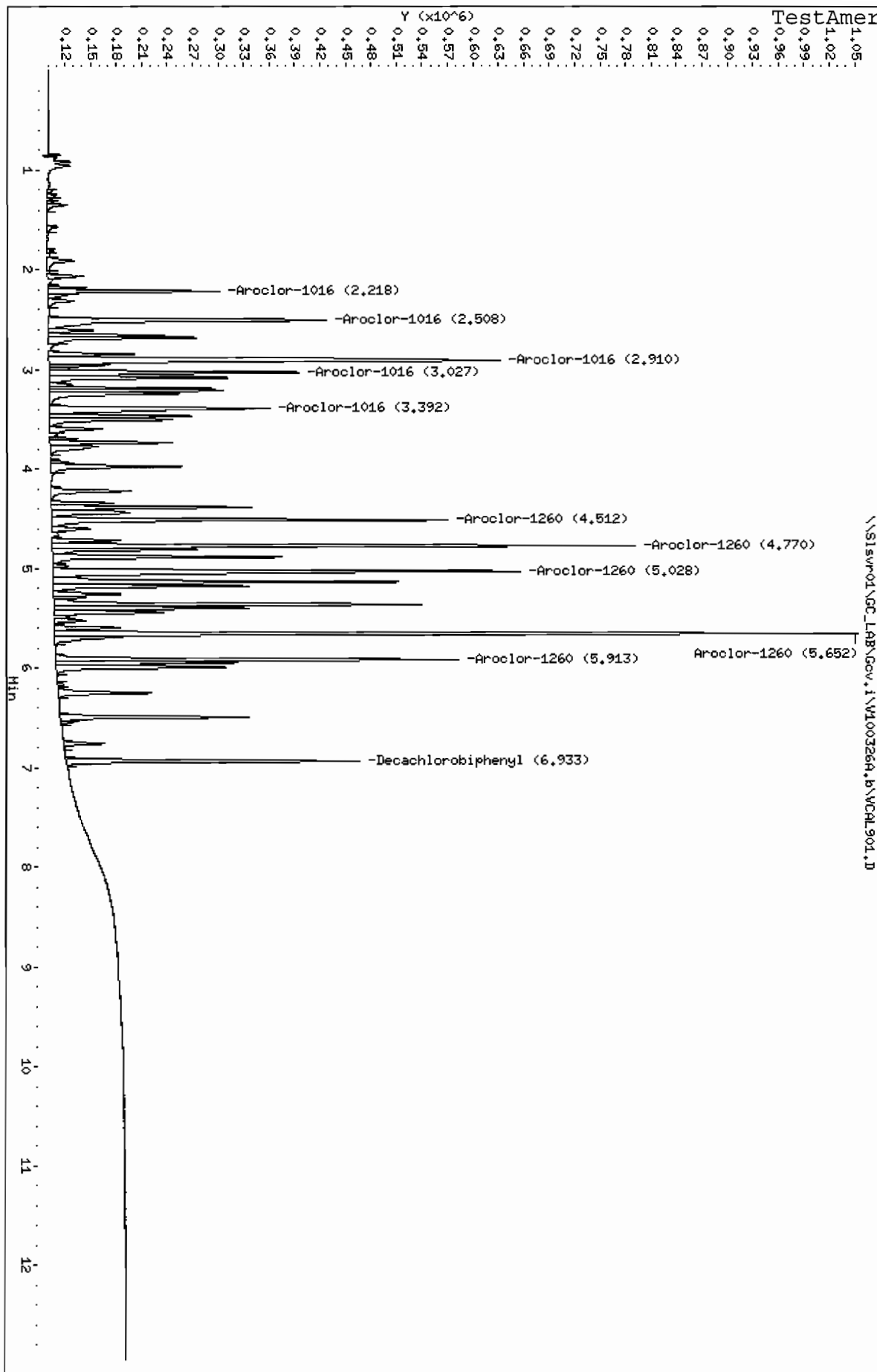
Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL901.D  
Report Date: 26-Mar-2010 12:32

QC Flag Legend

M - Compound response manually integrated.

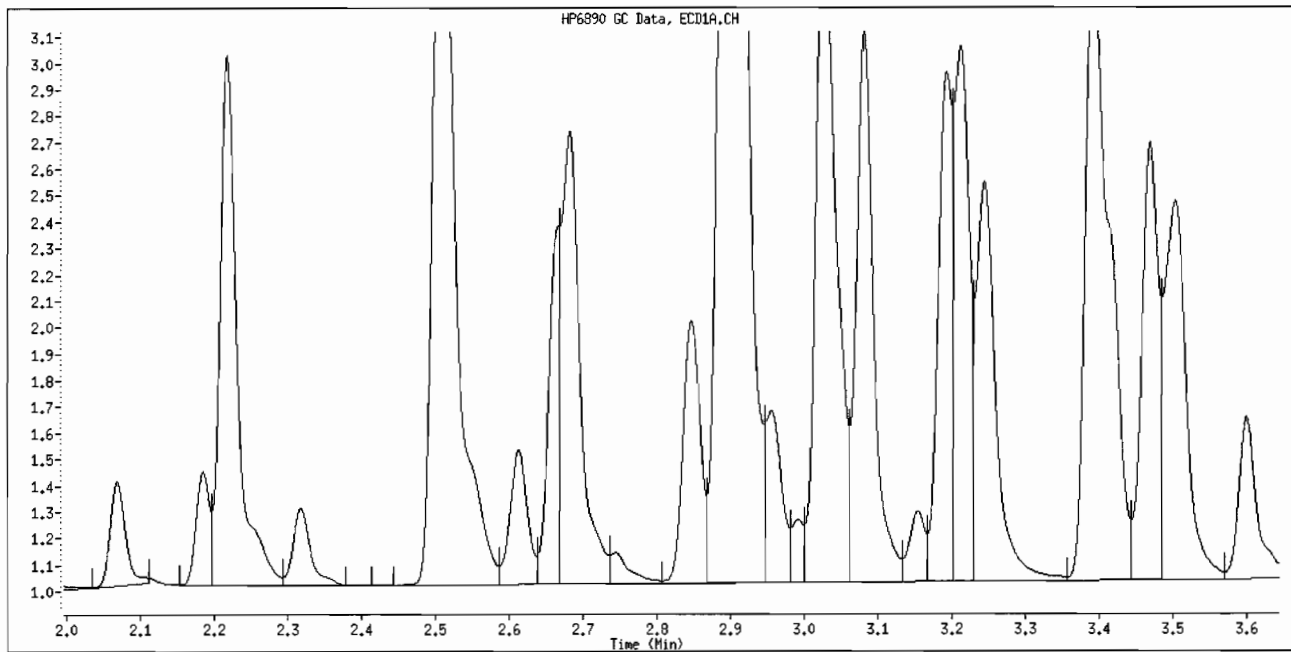
Data File: \\slswr01\GC\_LAB\Gov.i\W100326A.b\NCAL901.D  
 Date: 26-MAR-2010 10:26  
 Client ID:  
 Sample Info: ICAL-3  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53

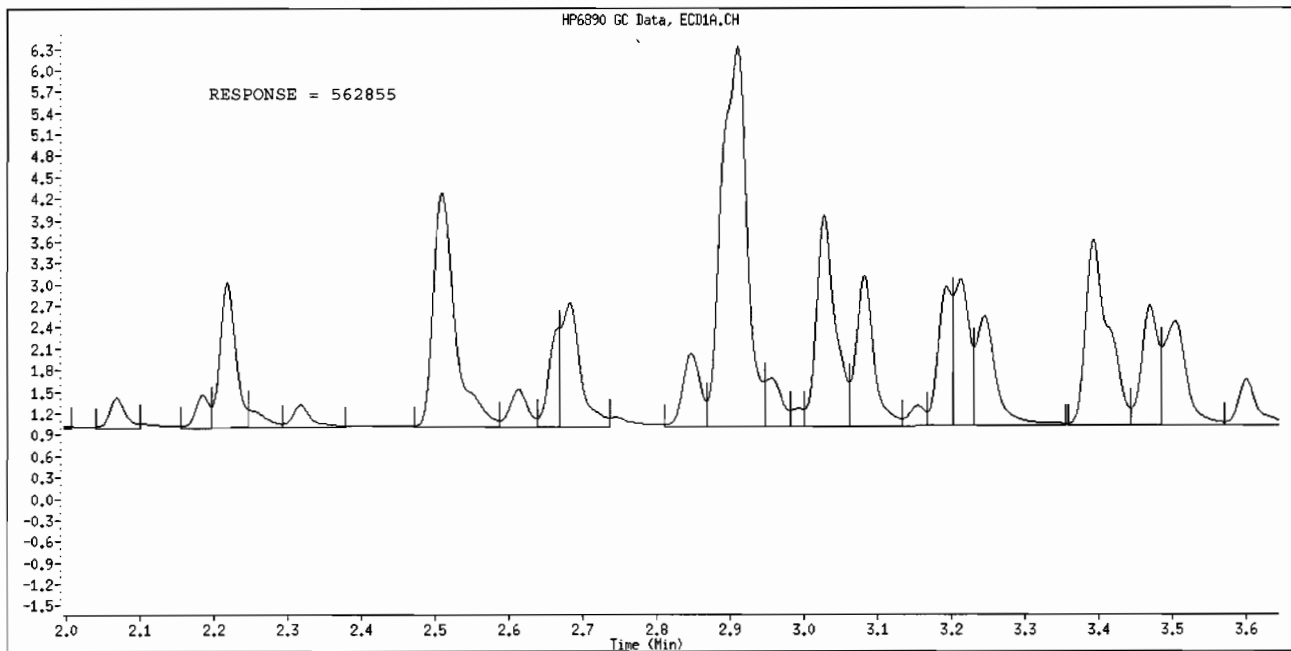


Data File Name: VCAL901.D  
Inj. Date and Time: 26-MAR-2010 10:26  
Instrument ID: Gcv.i  
Client ID:  
Compound Name: Aroclor-1016  
CAS #: 12674-11-2

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

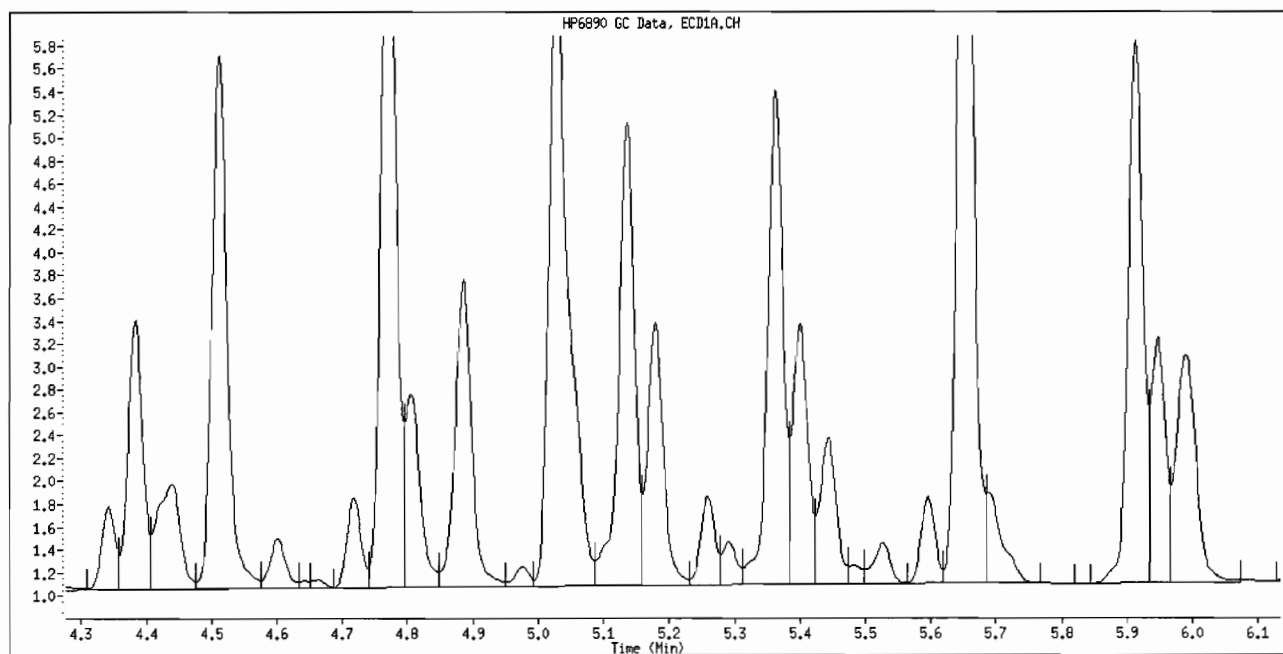
Inj. Date and Time: 26-MAR-2010 10:26

Instrument ID: Gcv.i

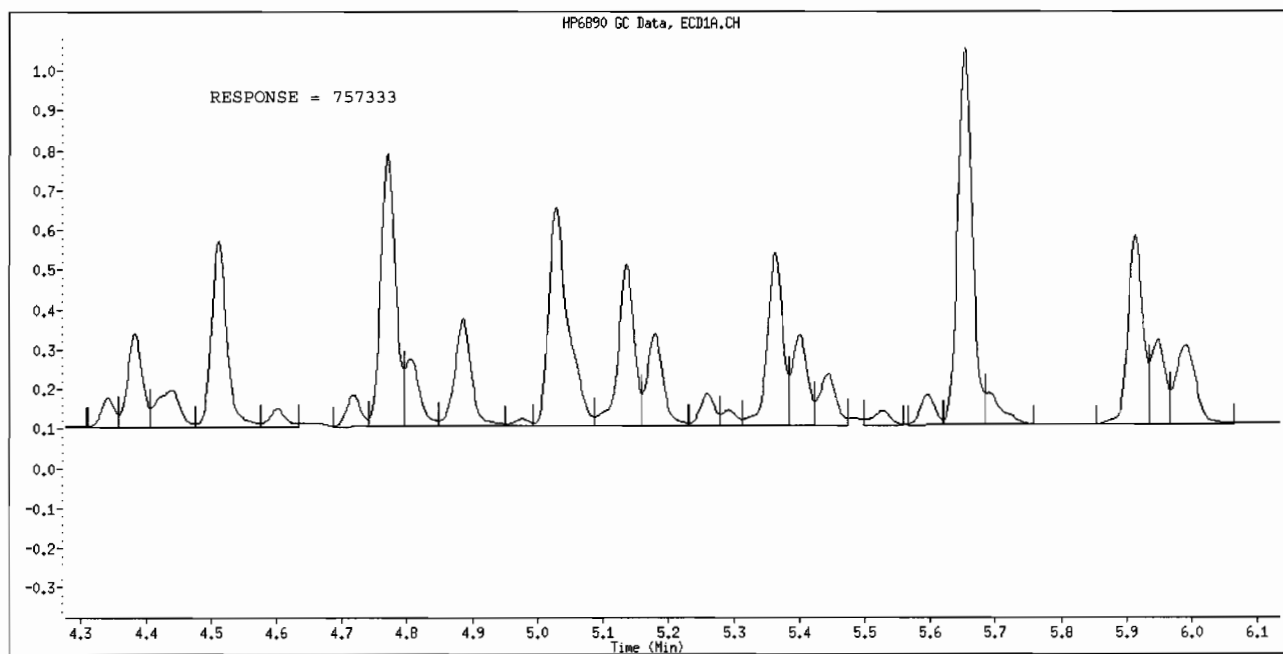
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL901.D

TestAmerica St. Louis

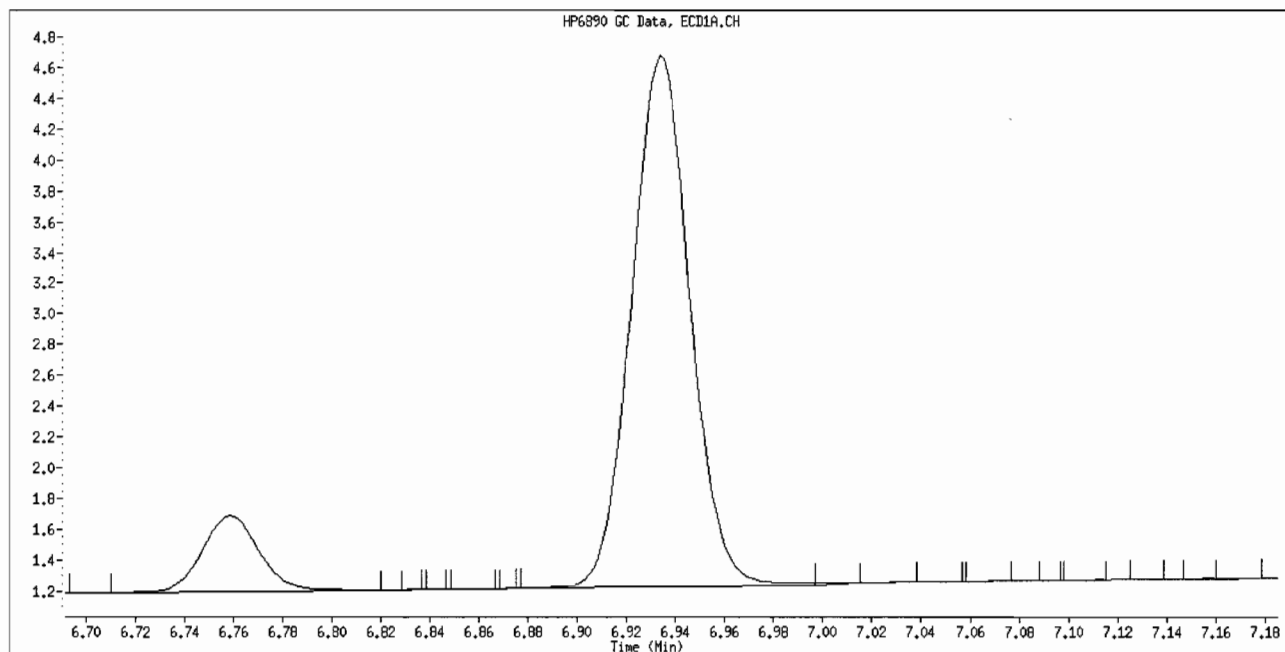
Inj. Date and Time: 26-MAR-2010 10:26

Instrument ID: Gcv.i

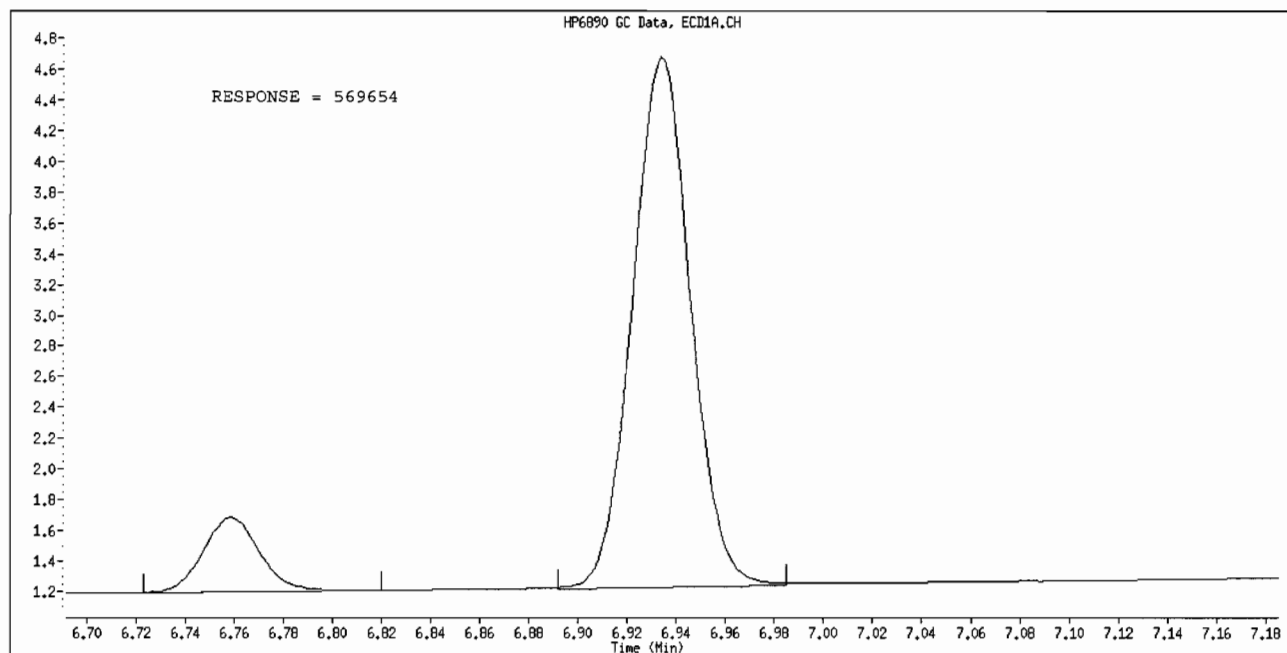
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL902.D  
Report Date: 26-Mar-2010 12:32

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## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL902.D  
Lab Smp Id: ICAL-4  
Inj Date : 26-MAR-2010 10:44  
Operator : DEK  
Smp Info : ICAL-4  
Misc Info :  
Comment :  
Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
Meth Date : 26-Mar-2010 12:30 target  
Cal Date : 26-MAR-2010 11:03  
Als bottle: 6  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.14  
Processing Host: SLGC06

Inst ID: Gcv.i  
Quant Type: ESTD  
Cal File: VCAL903.D  
Calibration Sample, Level: 4  
Compound Sublist: Ar1660.sub  
Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.218	2.220	638992	444.2	80.00- 120.00	100.00 (M)
	2.510	2.510	1552671	494.2	161.45- 242.18	242.99
	2.910	2.910	3272397	525.7	330.47- 495.70	512.12
	3.027	3.028	1189417	476.5	133.74- 200.62	186.14
	3.392	3.391	1275885	487.0	137.59- 206.38	199.67
Average of Peak Amounts =			485.520			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.512	4.511	1787763	491.7	80.00- 120.00	100.00 (M)
	4.770	4.770	2453815	482.9	114.22- 171.34	137.26
	5.028	5.028	2645272	492.5	119.87- 179.80	147.97
	5.652	5.651	3323516	481.3	158.12- 237.17	185.90
	5.913	5.913	1676168	473.3	77.99- 116.99	93.76
Average of Peak Amounts =			484.340			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.933	6.933	1198264	24.49		(M)



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL902.D  
Report Date: 26-Mar-2010 12:32

TestAmerica St. Louis  
Page 2

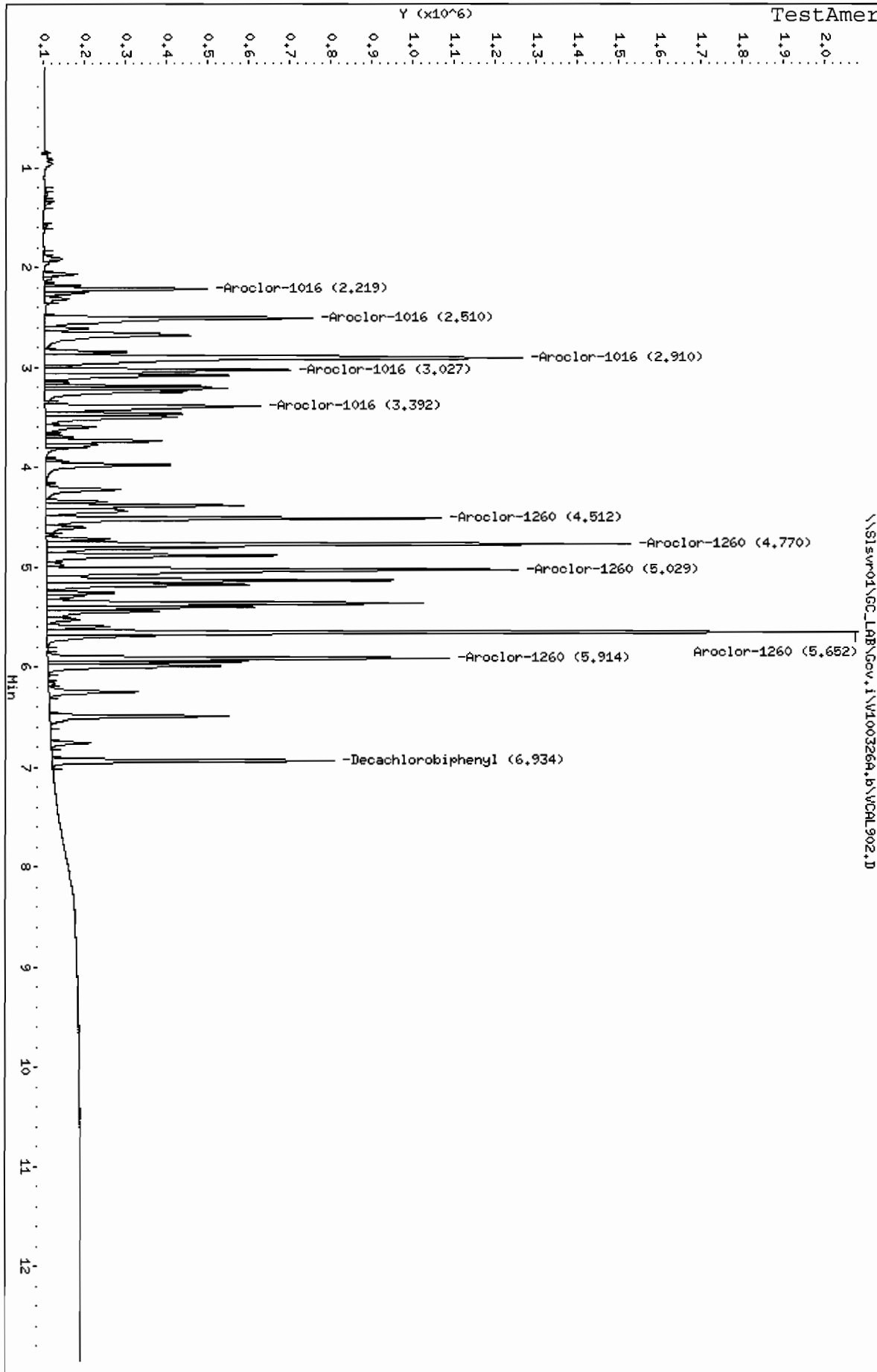
#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gov.i\W100326A.b\WCAL902.D  
Date: 26-Mar-2010 10:44  
Client ID:  
Sample Info: ICAL-4  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

Page 1



Data File Name: VCAL902.D

TestAmerica St. Louis

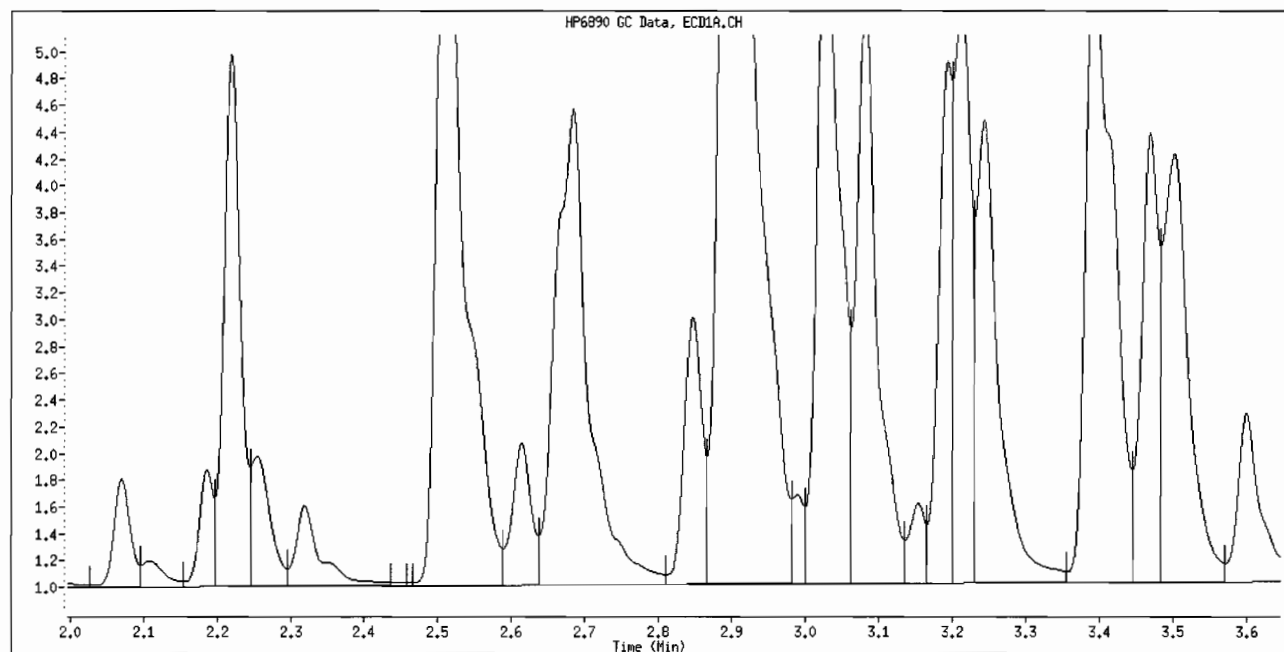
Inj. Date and Time: 26-MAR-2010 10:44

Instrument ID: Gcv.i

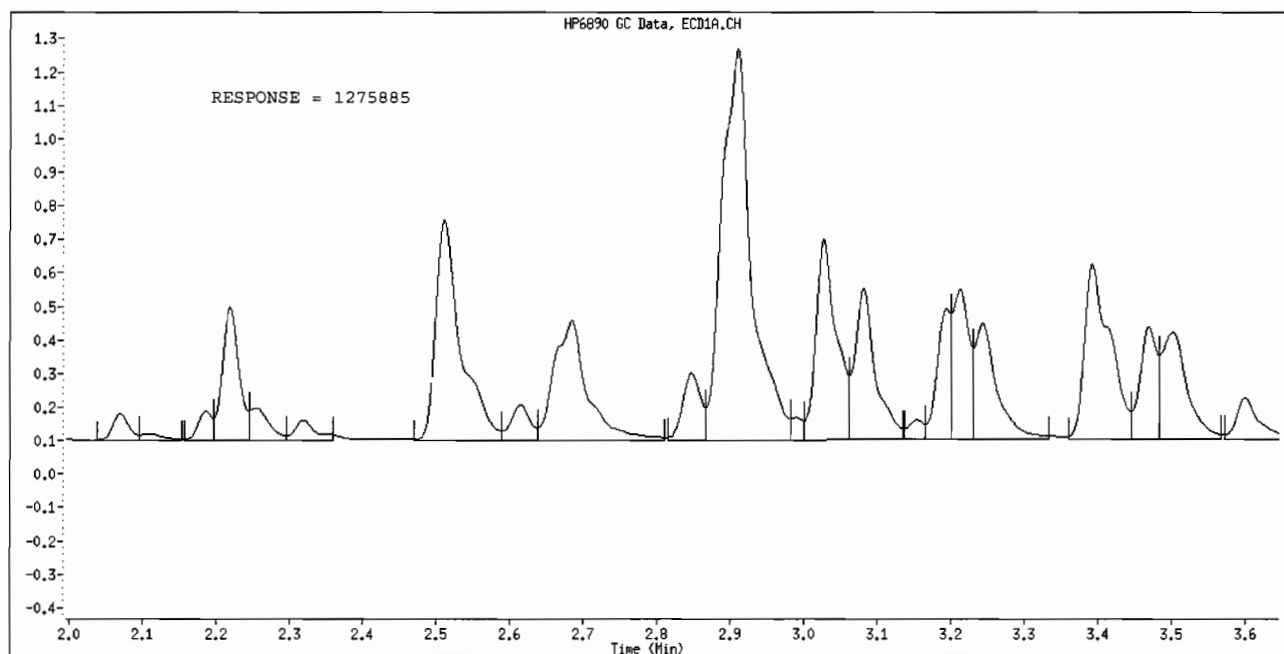
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



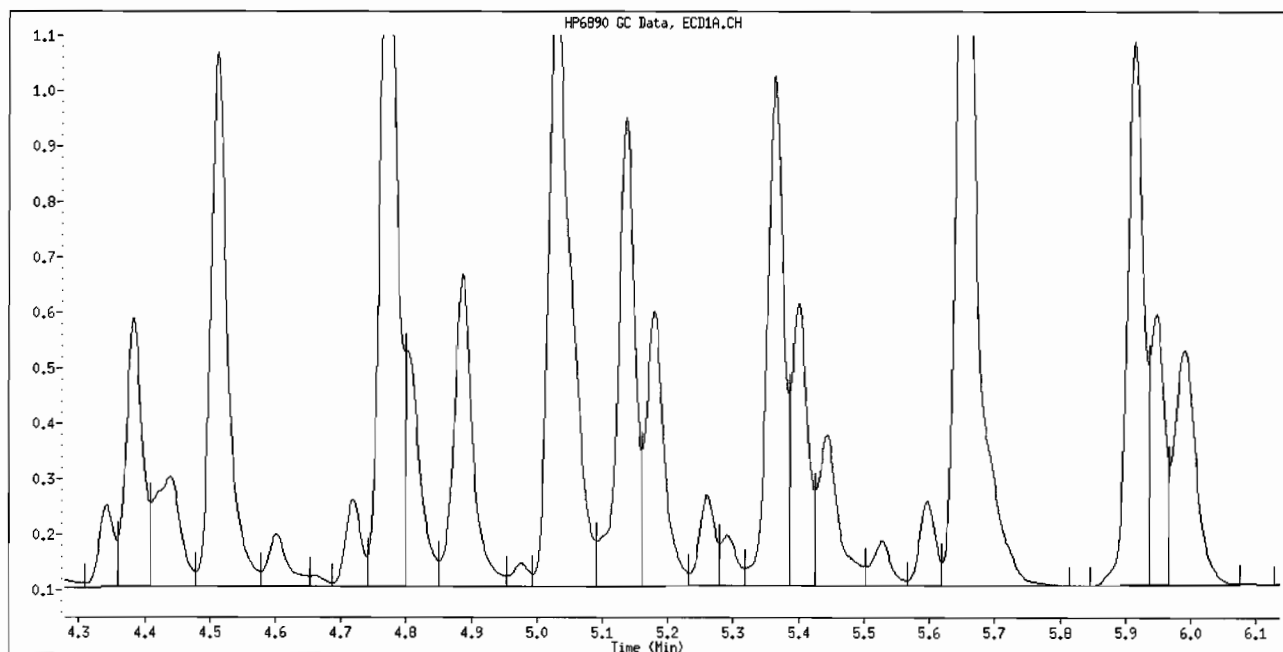
Manual Integration

Manually Integrated By: konopkad

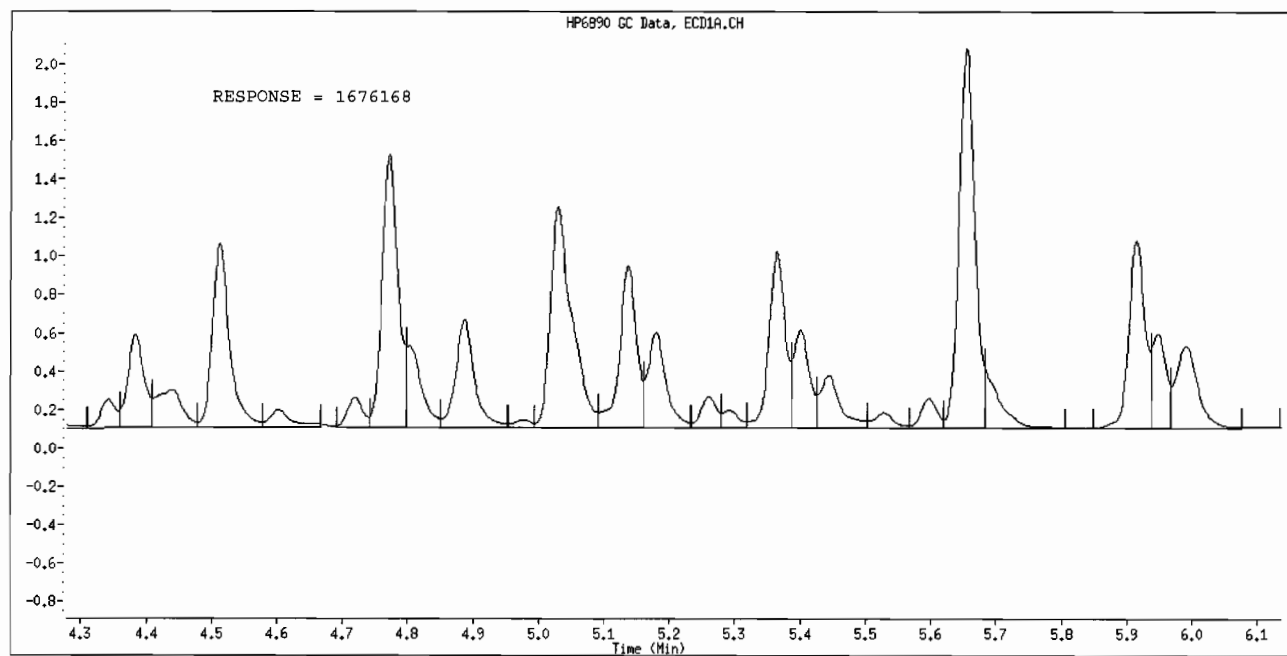
Manual Integration Reason: Baseline Event

Data File Name: VCAL902.D  
Inj. Date and Time: 26-MAR-2010 10:44  
Instrument ID: Gcv.i  
Client ID:  
Compound Name: Aroclor-1260  
CAS #: 11096-82-5

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

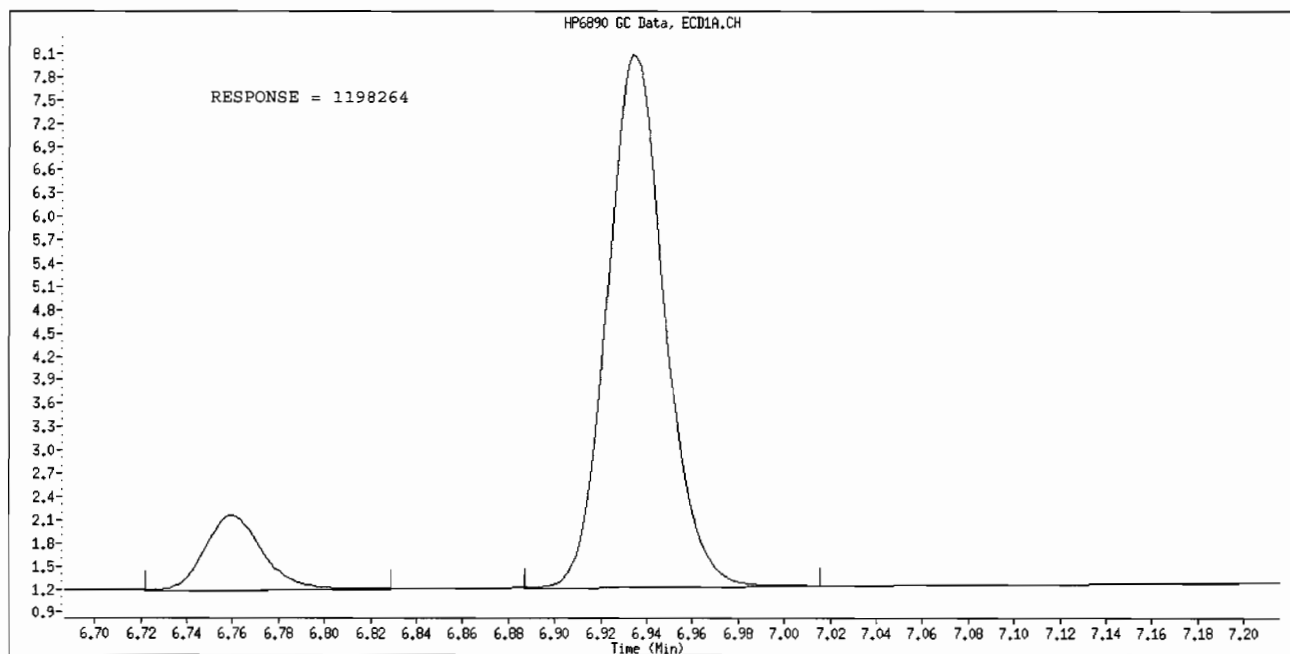
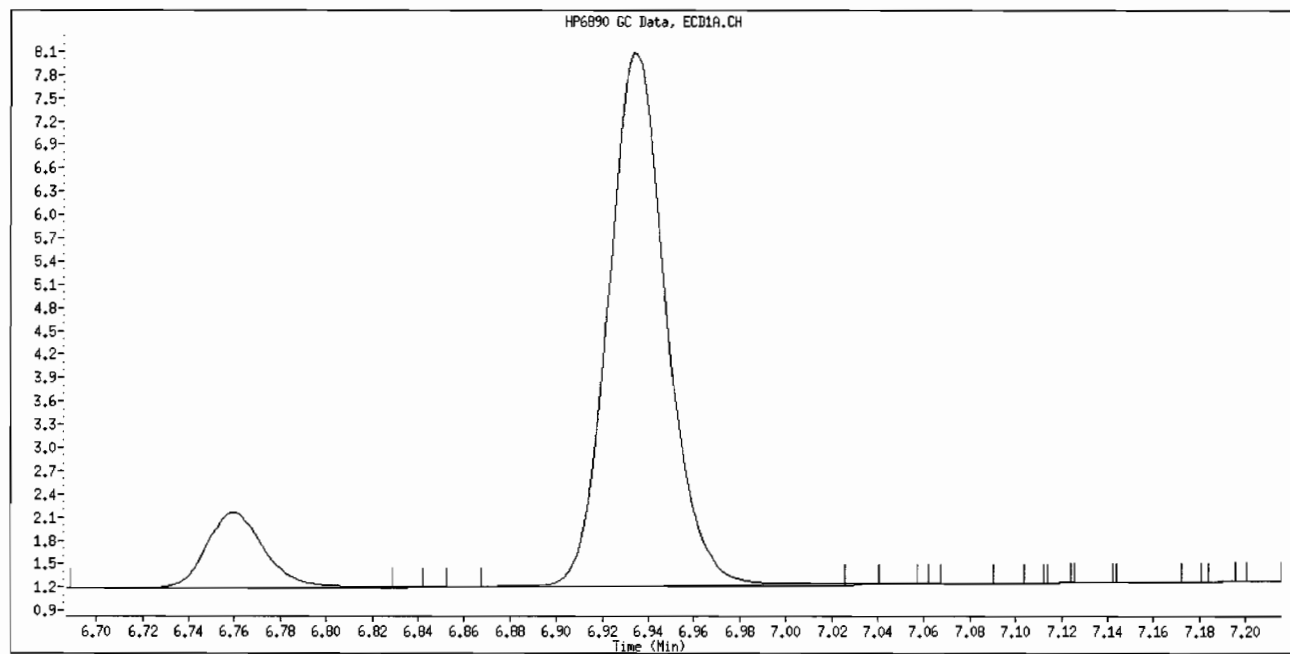
Inj. Date and Time: 26-MAR-2010 10:44

Instrument ID: Gcv.i

Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL903.D  
 Report Date: 26-Mar-2010 12:32

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL903.D  
 Lab Smp Id: ICAL-5  
 Inj Date : 26-MAR-2010 11:03  
 Operator : DEK  
 Smp Info : ICAL-5  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 12:30 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Calibration Sample, Level: 5  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.220	0.000	1409373 1000.00	979.7	80.00- 120.00	100.00 (M)
2.510	2.510	0.000	2844310 1000.00	905.4	161.45- 242.18	201.81
2.910	2.910	0.000	5821933 1000.00	935.3	330.47- 495.70	413.09
3.028	3.028	0.000	2356192 1000.00	944.0	133.74- 200.62	167.18
3.391	3.391	0.000	2423910 1000.00	925.2	137.59- 206.38	171.98
Average of Peak Amounts =				937.920		

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.511	0.000	3382046 1000.00	930.2	80.00- 120.00	100.00 (M)
4.770	4.770	0.000	4828873 1000.00	950.4	114.22- 171.34	142.78
5.028	5.028	0.000	5067480 1000.00	943.5	119.87- 179.80	149.83
5.651	5.651	0.000	6684452 1000.00	968.1	158.12- 237.17	197.65
5.913	5.913	0.000	3297153 1000.00	931.1	77.99- 116.99	97.49
Average of Peak Amounts =				944.660		

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.933	0.000	2319889 50.0000	47.42		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL903.D  
Report Date: 26-Mar-2010 12:32

TestAmerica St. Louis  
Page 2

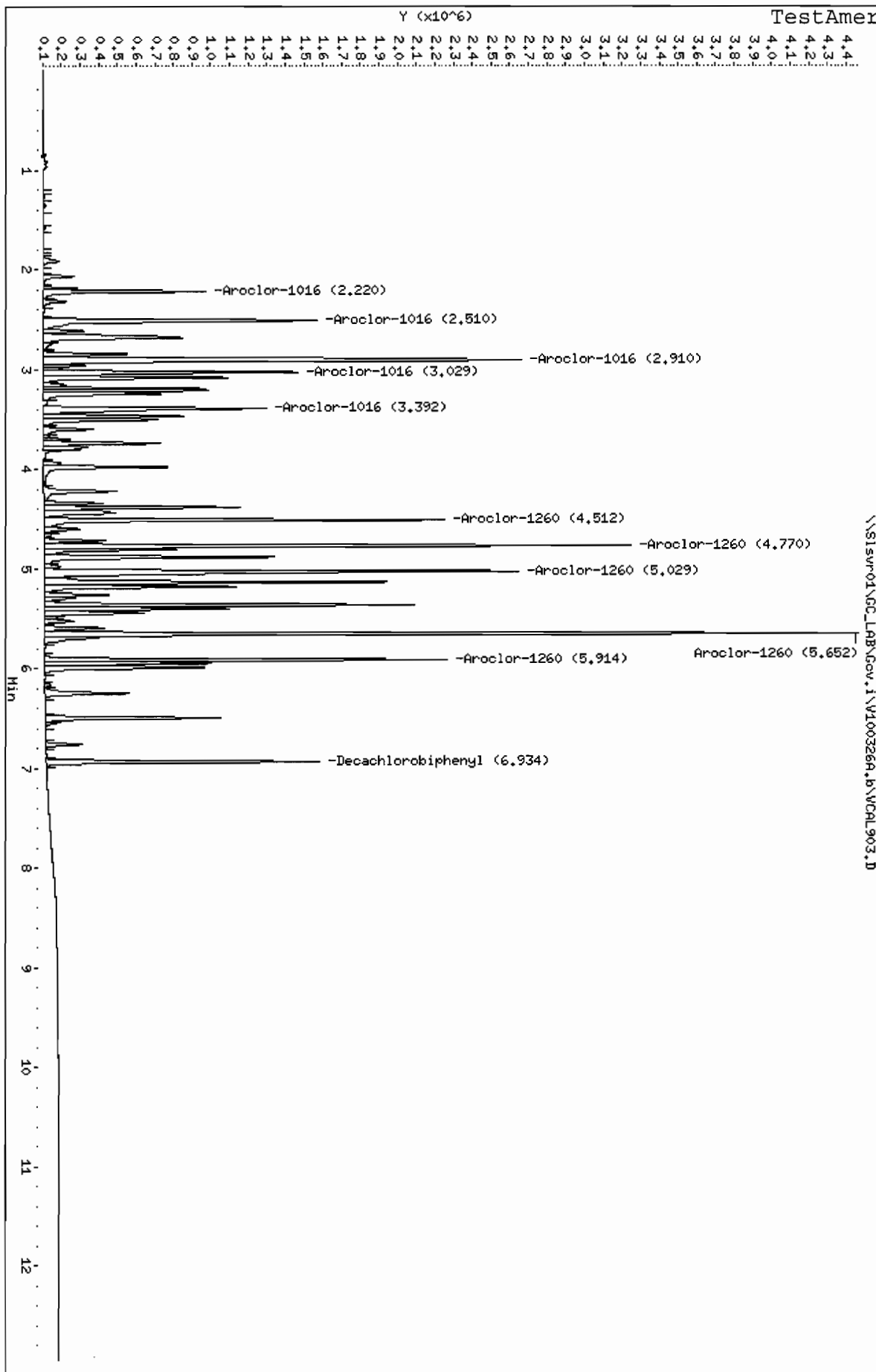
#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100326A.b\WCAL903.D  
Date: 26-MAR-2010 11:03  
Client ID:  
Sample Info: ICAL-5  
Volume Injected (uL): 2.0  
Column Phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

Page 1





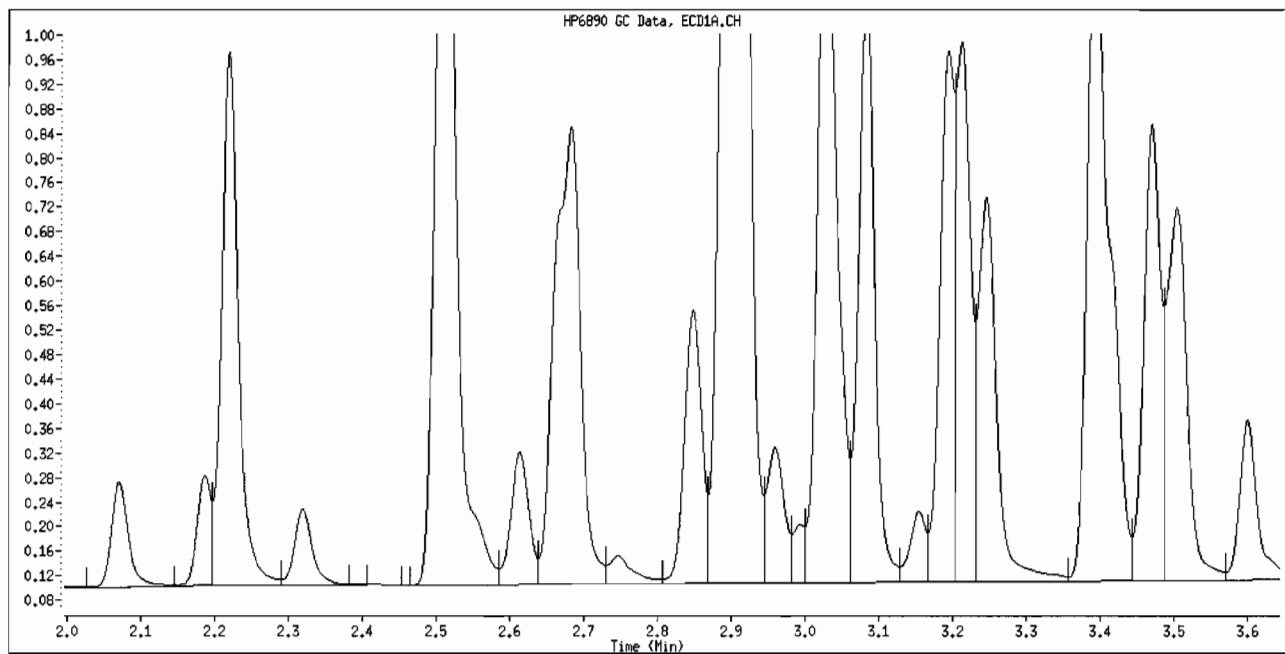
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.i

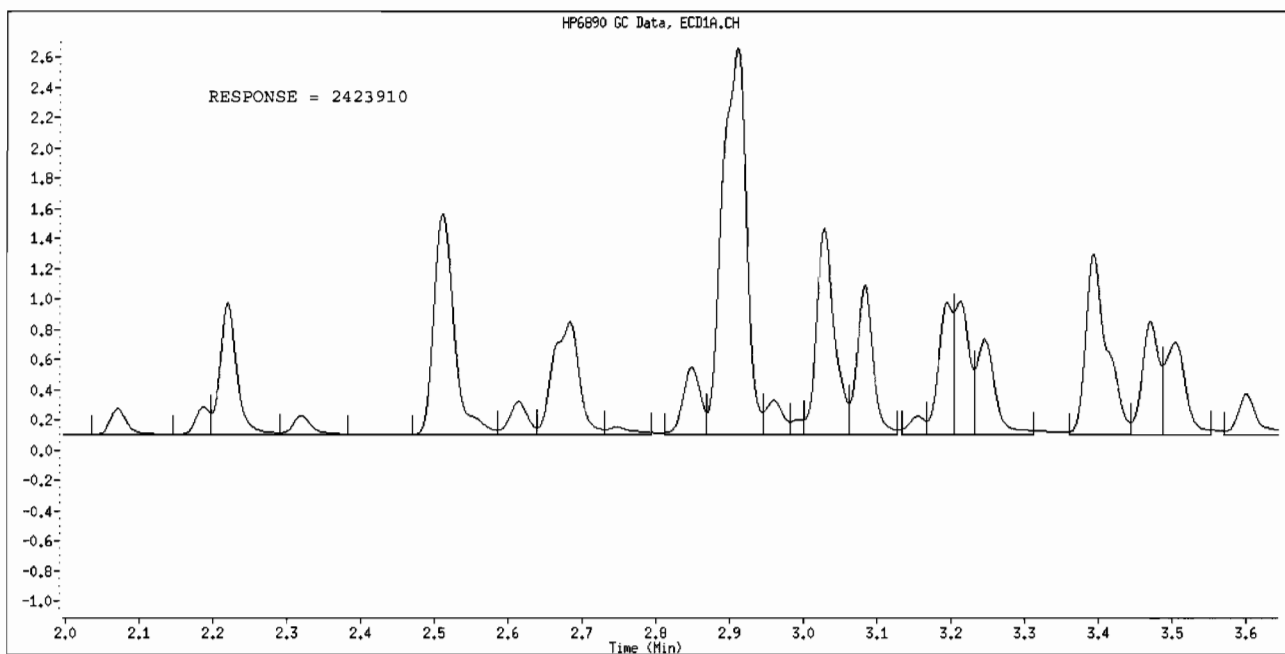
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL903.D

TestAmerica St. Louis

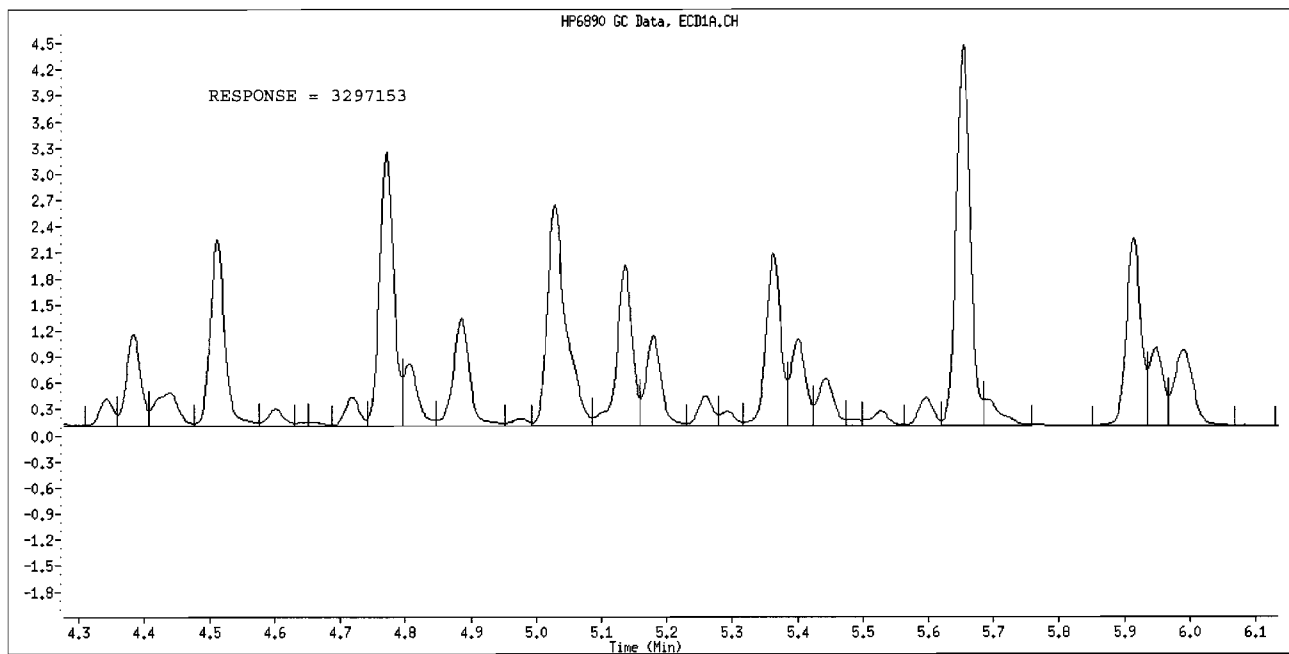
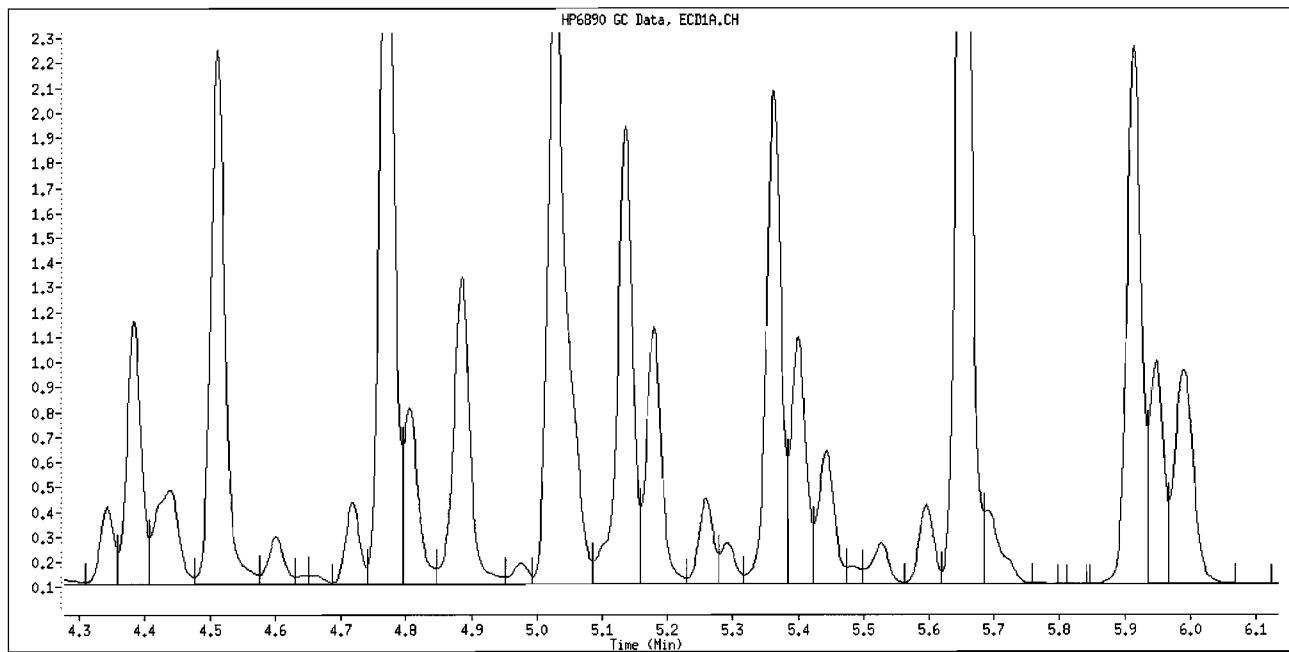
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.i

Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL903.D

TestAmerica St. Louis

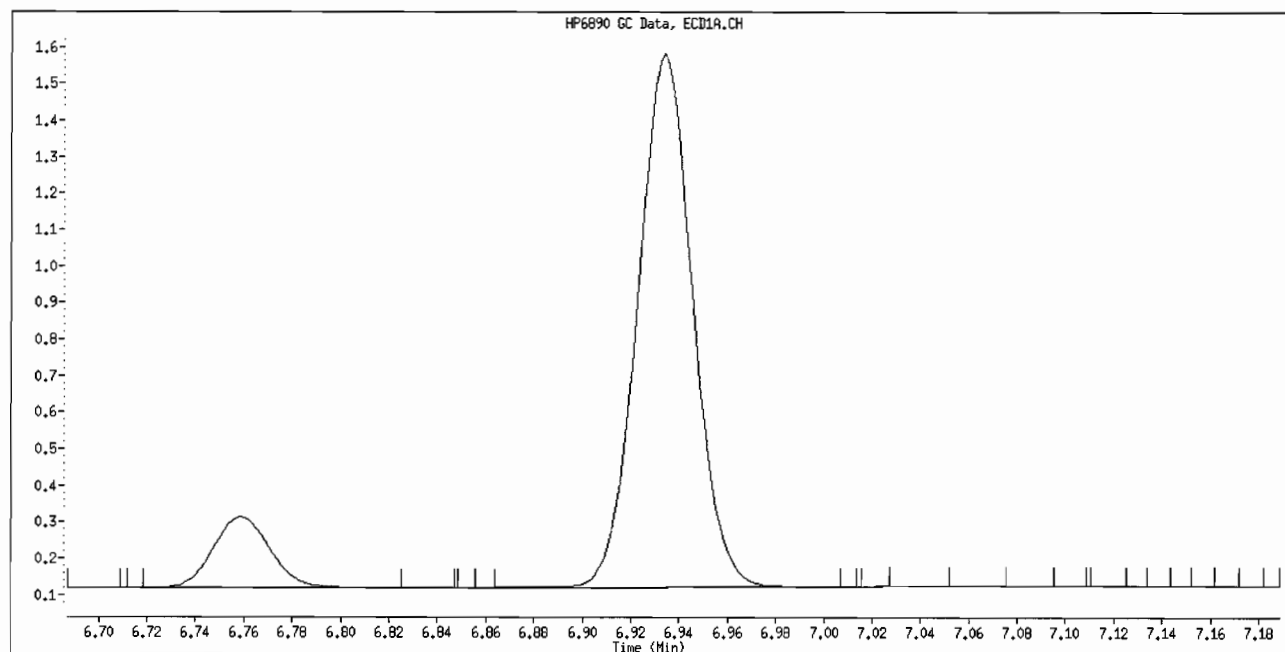
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.1

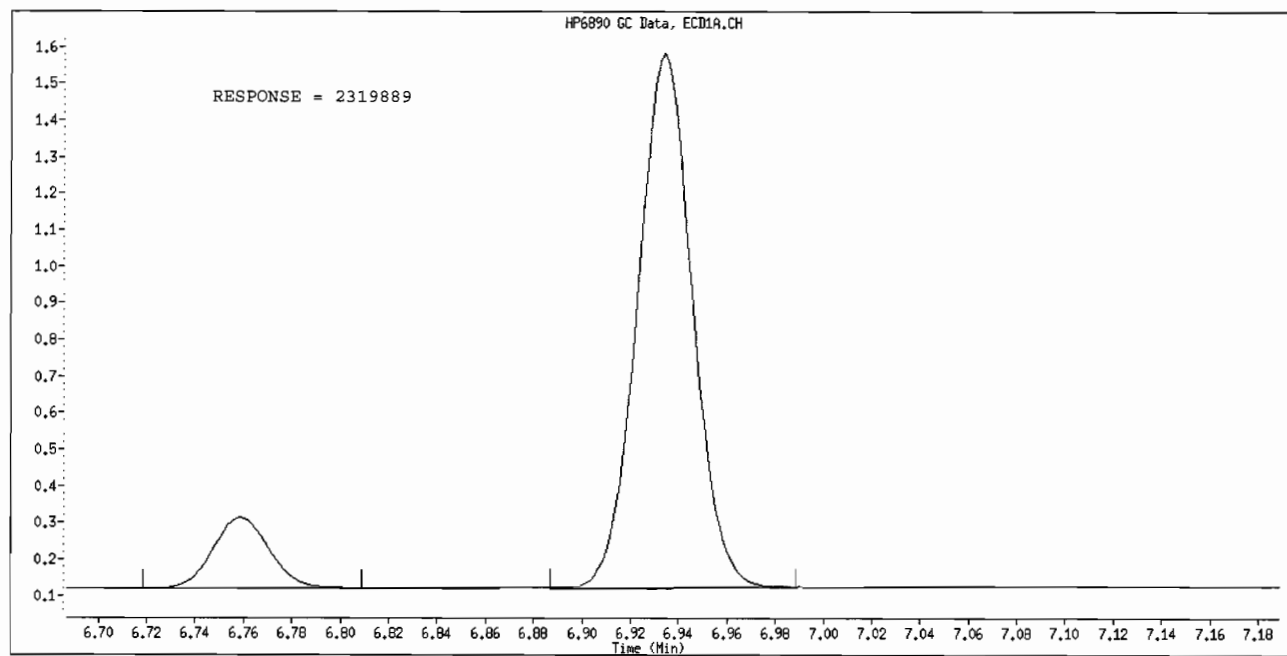
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL904.D  
 Report Date: 26-Mar-2010 12:31

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL904.D  
 Lab Smp Id: ICAL-6  
 Inj Date : 26-MAR-2010 11:22  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-6  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 12:30 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.218	2.220	2162503	1498.00	1503 80.00- 120.00	100.00 (M)
	2.510	2.510	4372917	1498.00	1392 161.45- 242.18	202.22
	2.910	2.910	9179684	1498.00	1475 330.47- 495.70	424.49
	3.026	3.028	3630913	1498.00	1455 133.74- 200.62	167.90
	3.391	3.391	3777700	1498.00	1442 137.59- 206.38	174.69
Average of Peak Amounts =			1453.40			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.510	4.511	5336970	1498.00	1468 80.00- 120.00	100.00 (M)
	4.770	4.770	7714963	1498.00	1518 114.22- 171.34	144.56
	5.028	5.028	8192395	1498.00	1525 119.87- 179.80	153.50
	5.651	5.651	10789085	1498.00	1562 158.12- 237.17	202.16
	5.913	5.913	5441862	1498.00	1537 77.99- 116.99	101.97
Average of Peak Amounts =			1522.00			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.933	6.933	3802435	75.0000	77.73	(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL904.D  
Report Date: 26-Mar-2010 12:31

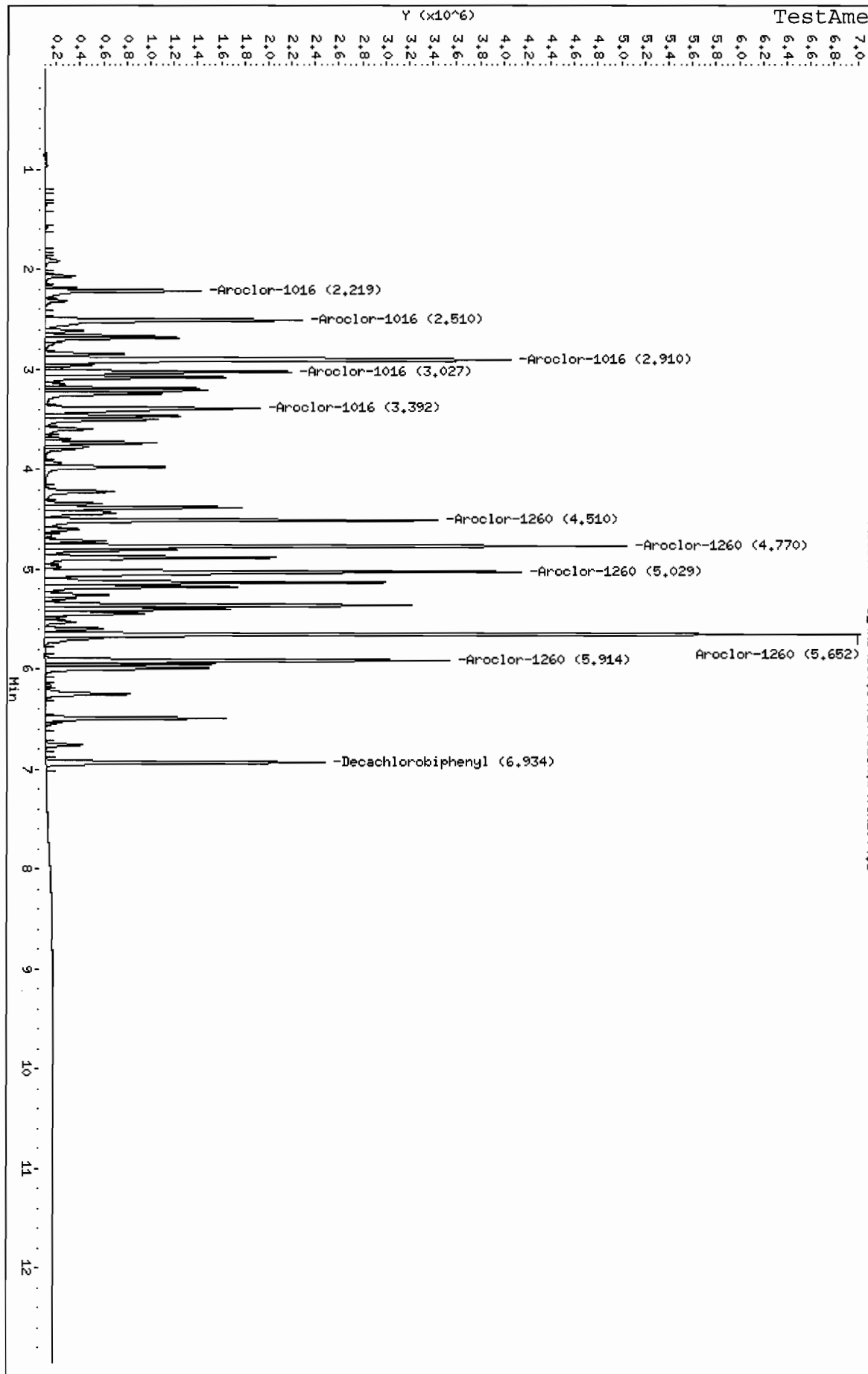
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100326A.b\VCAL904.D  
Date: 26-MAR-2010 11:22  
Client ID:  
Sample Info: ICAL-6  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



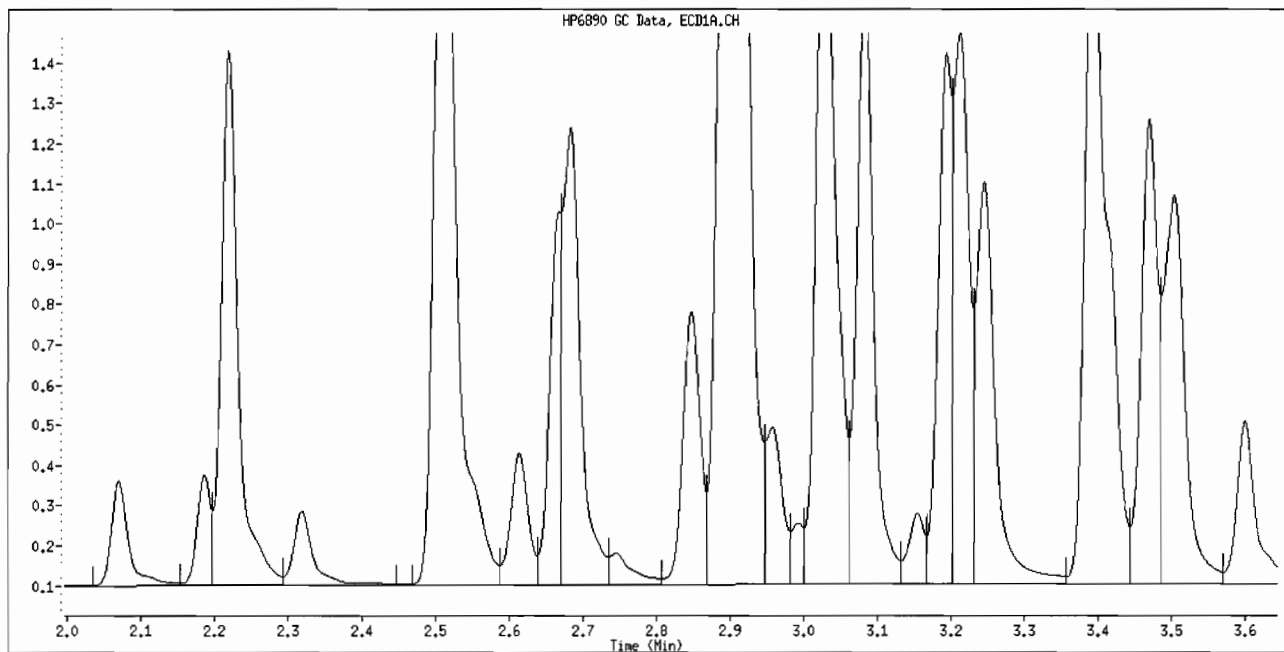
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

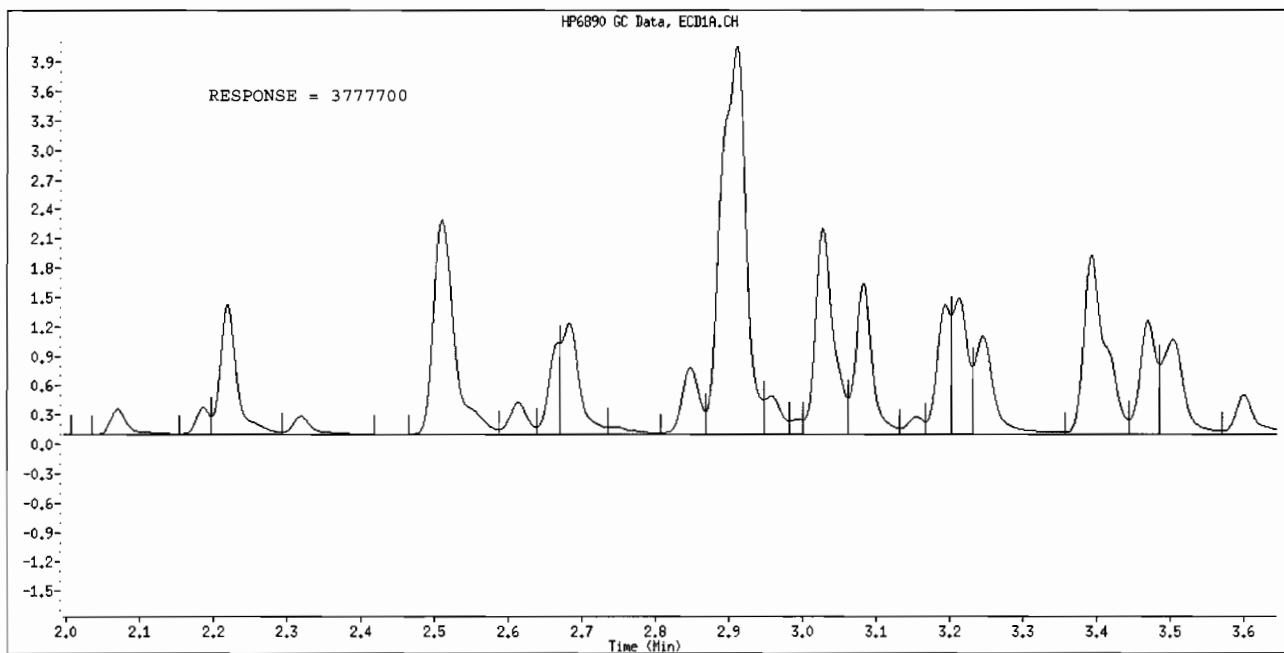
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

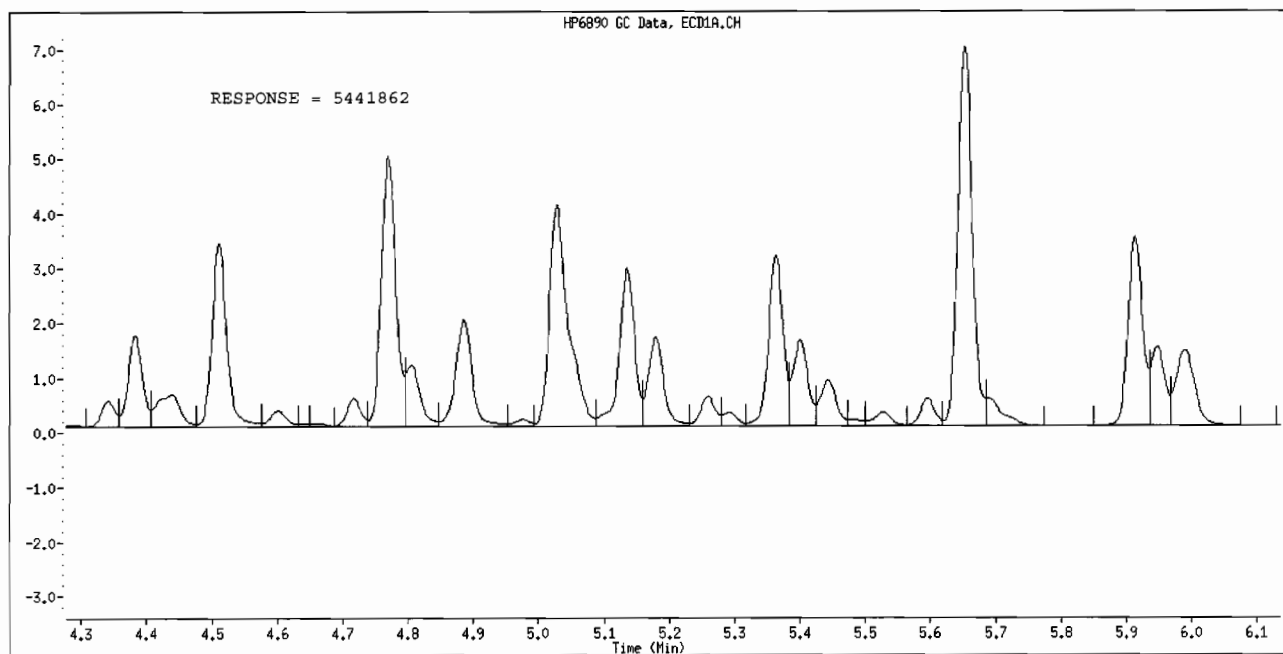
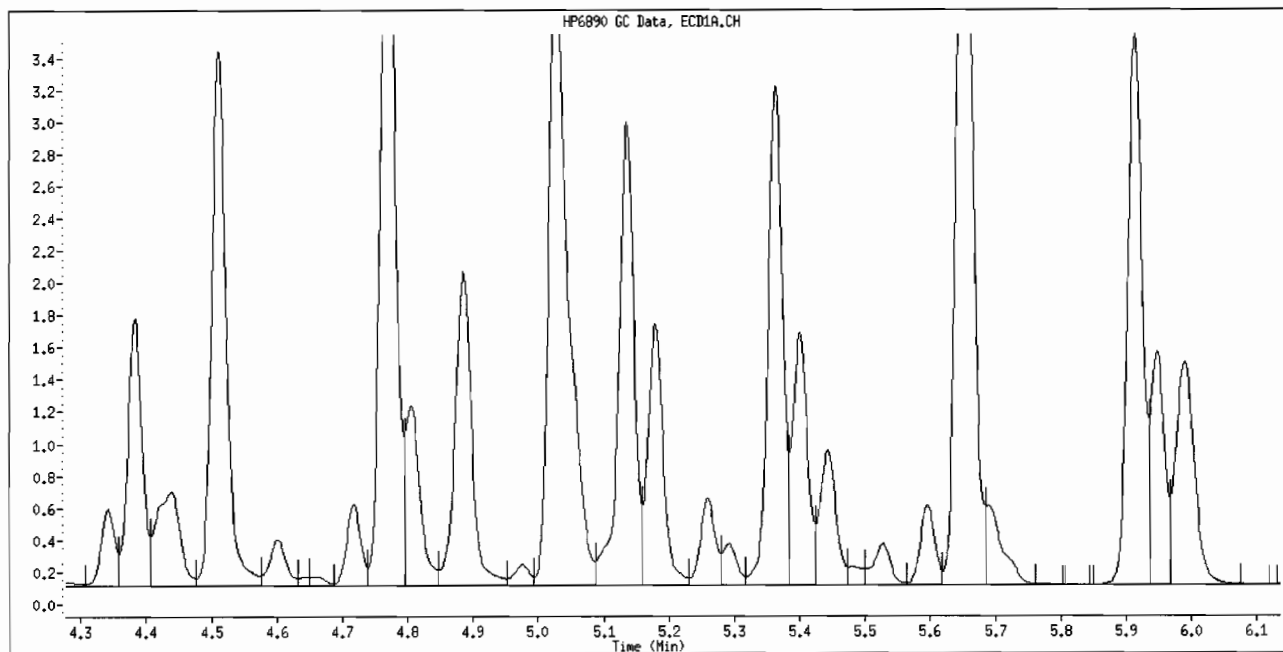
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: VCAL904.D

TestAmerica St. Louis

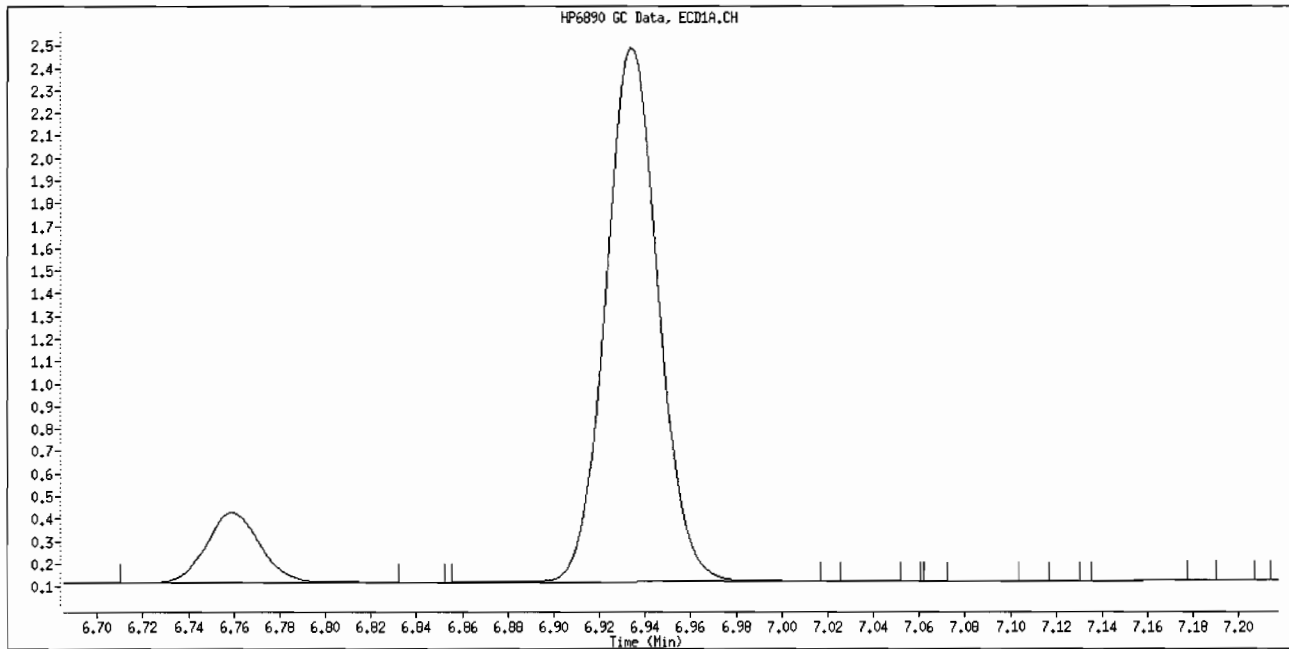
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

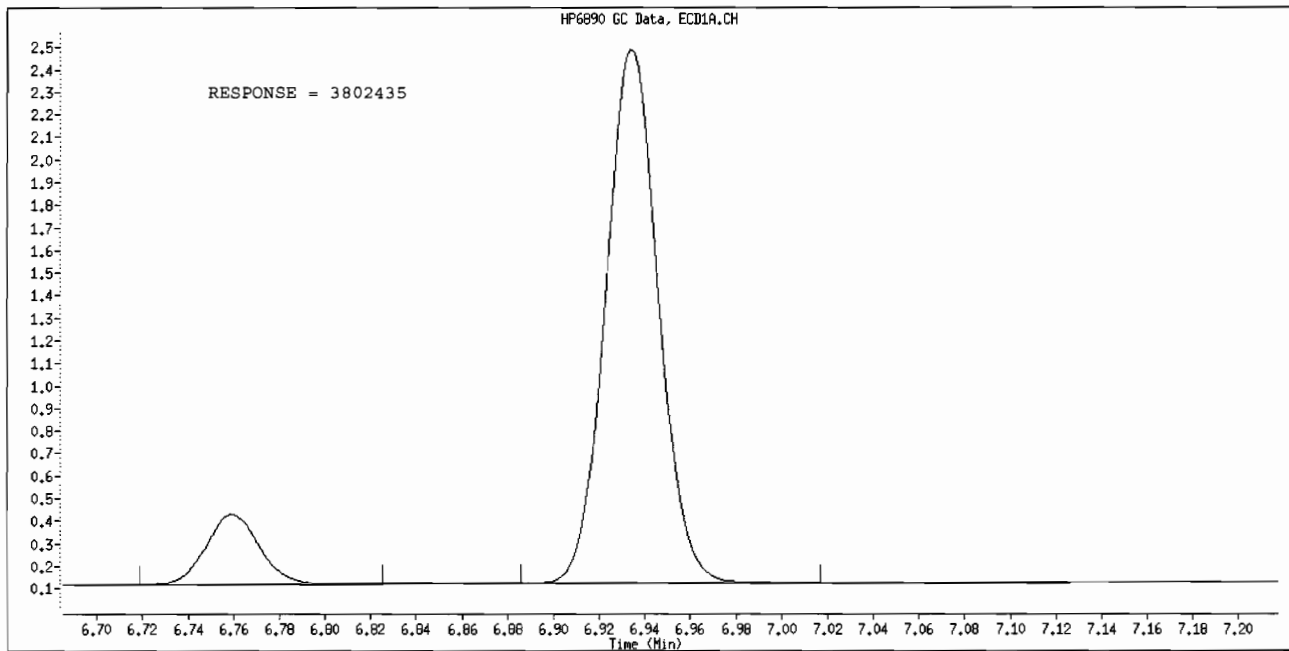
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL905.D  
 Report Date: 26-Mar-2010 12:31

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL905.D  
 Lab Smp Id: ICAL-7  
 Inj Date : 26-MAR-2010 11:40  
 Operator : DEK  
 Smp Info : ICAL-7  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 12:30 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Calibration Sample, Level: 7  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.220	0.000	2792155	2500.00	1941	80.00- 120.00	100.00 (M)
2.511	2.510	0.001	7111211	2500.00	2264	161.45- 242.18	254.69
2.911	2.910	0.001	16574706	2500.00	2663	330.47- 495.70	593.62
3.028	3.028	0.000	5772368	2500.00	2313	133.74- 200.62	206.74
3.393	3.391	0.002	6172670	2500.00	2356	137.59- 206.38	221.07
Average of Peak Amounts =			2307.40				

CAS #: 12674-11-2

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.511	0.000	8798396	2500.00	2420	80.00- 120.00	100.00 (M)
4.771	4.770	0.001	12882729	2500.00	2536	114.22- 171.34	146.42
5.030	5.028	0.002	13604896	2500.00	2533	119.87- 179.80	154.63
5.653	5.651	0.002	17838535	2500.00	2584	158.12- 237.17	202.75
5.915	5.913	0.002	8720099	2500.00	2462	77.99- 116.99	99.11
Average of Peak Amounts =			2507.00				

CAS #: 11096-82-5

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	6.935	0.002	6161948	150.000	126.0		(M)

CAS #:

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL905.D  
Report Date: 26-Mar-2010 12:31

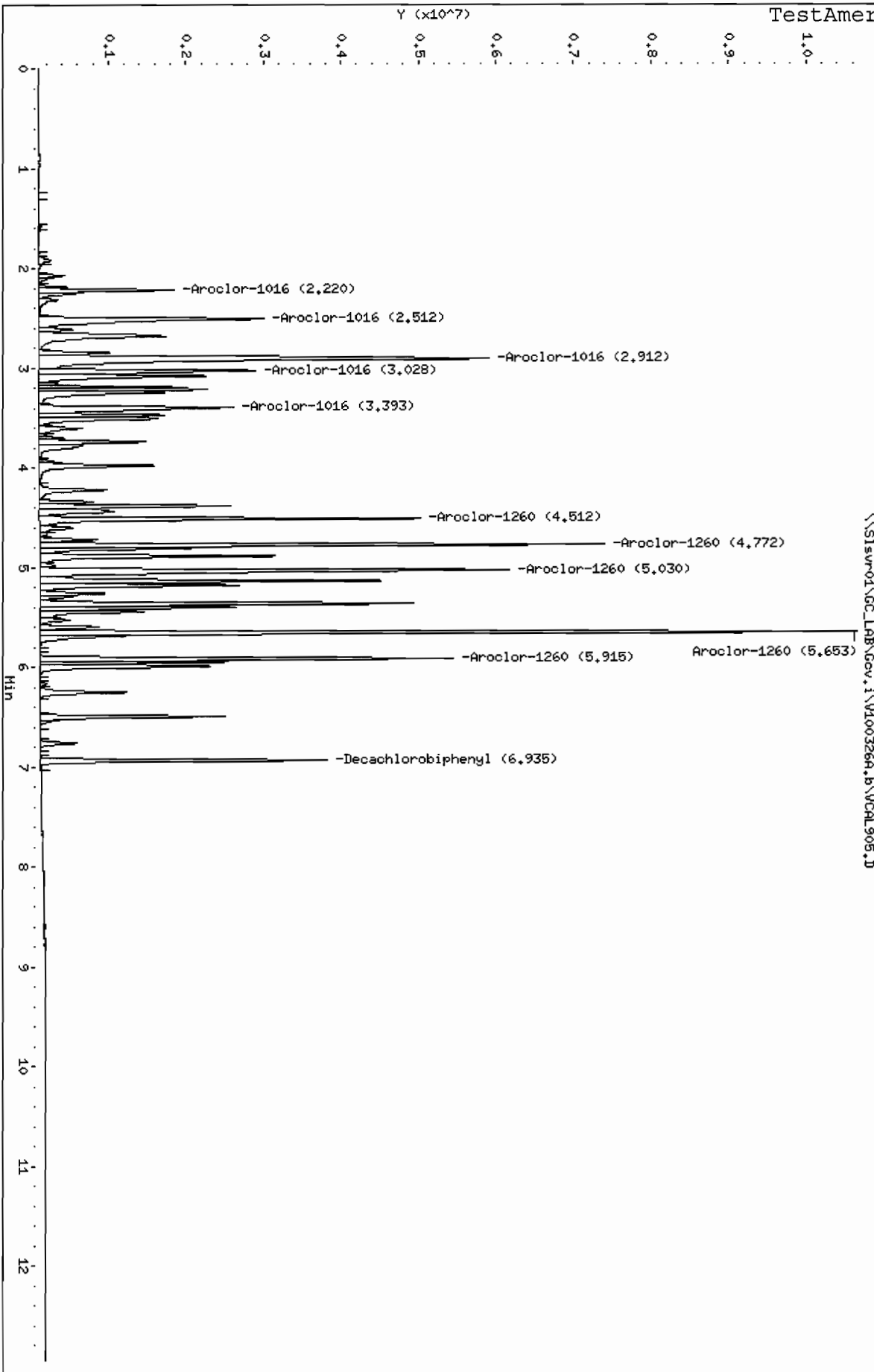
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\W100326A.b\WCAL905.D  
Date: 26-MAR-2010 11:40  
Client ID:  
Sample Info: ICAL-7  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



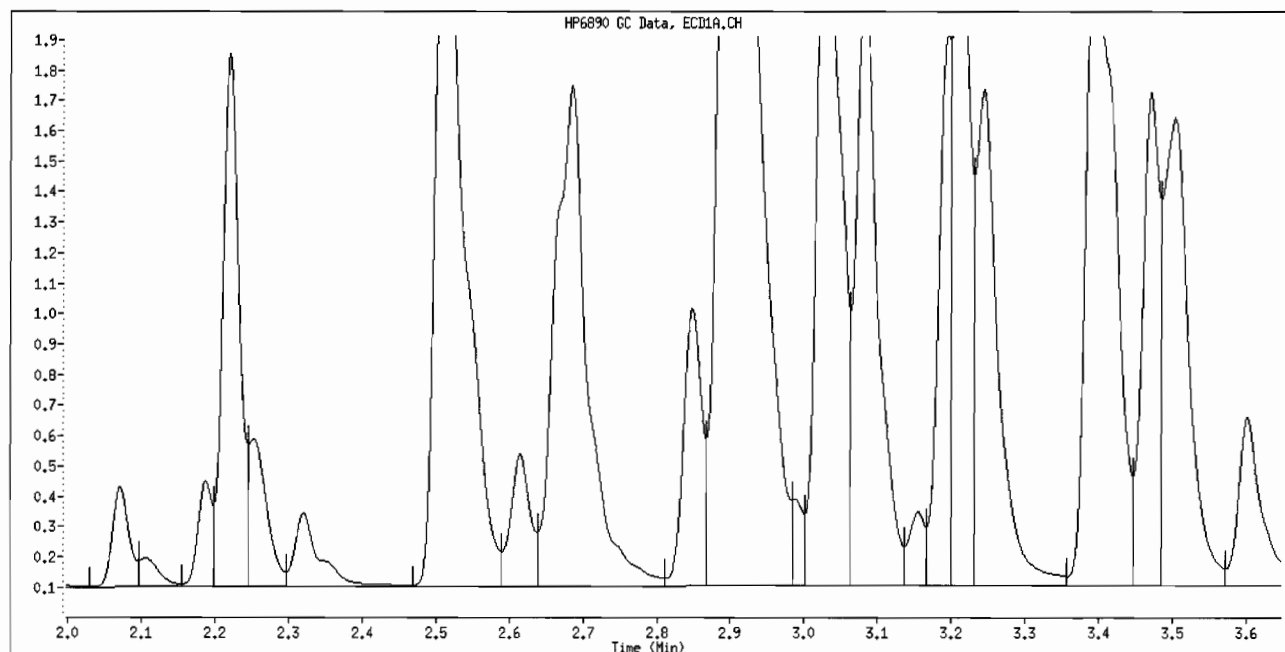
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

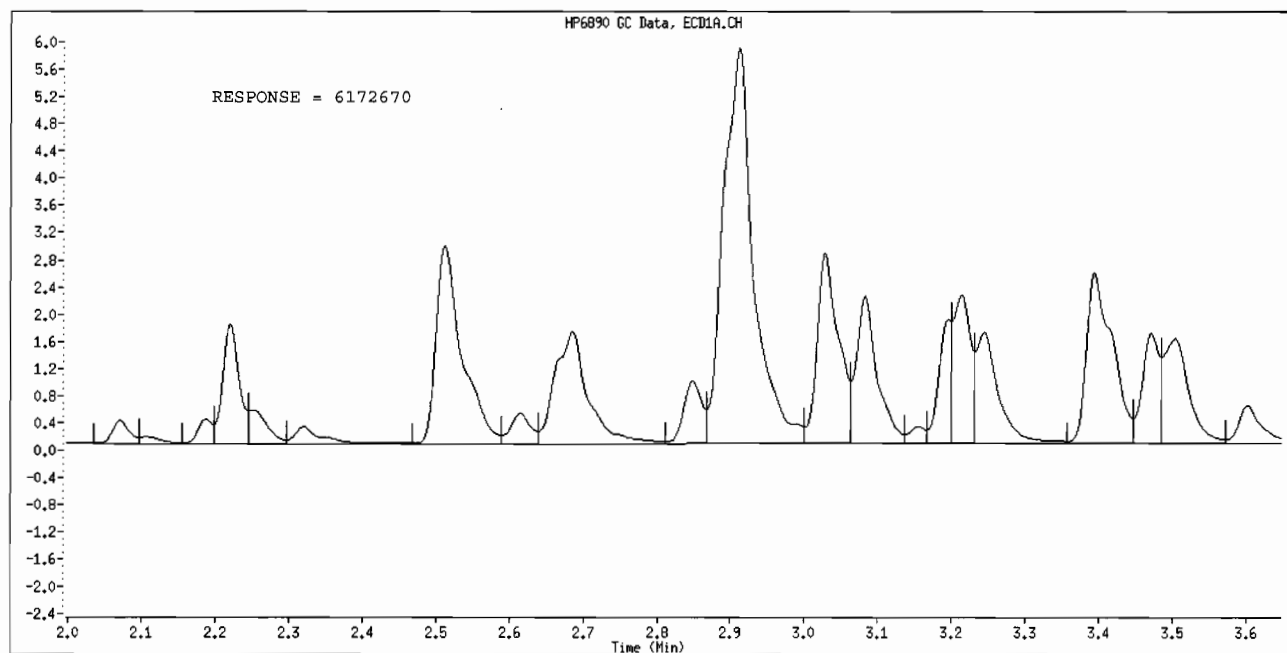
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

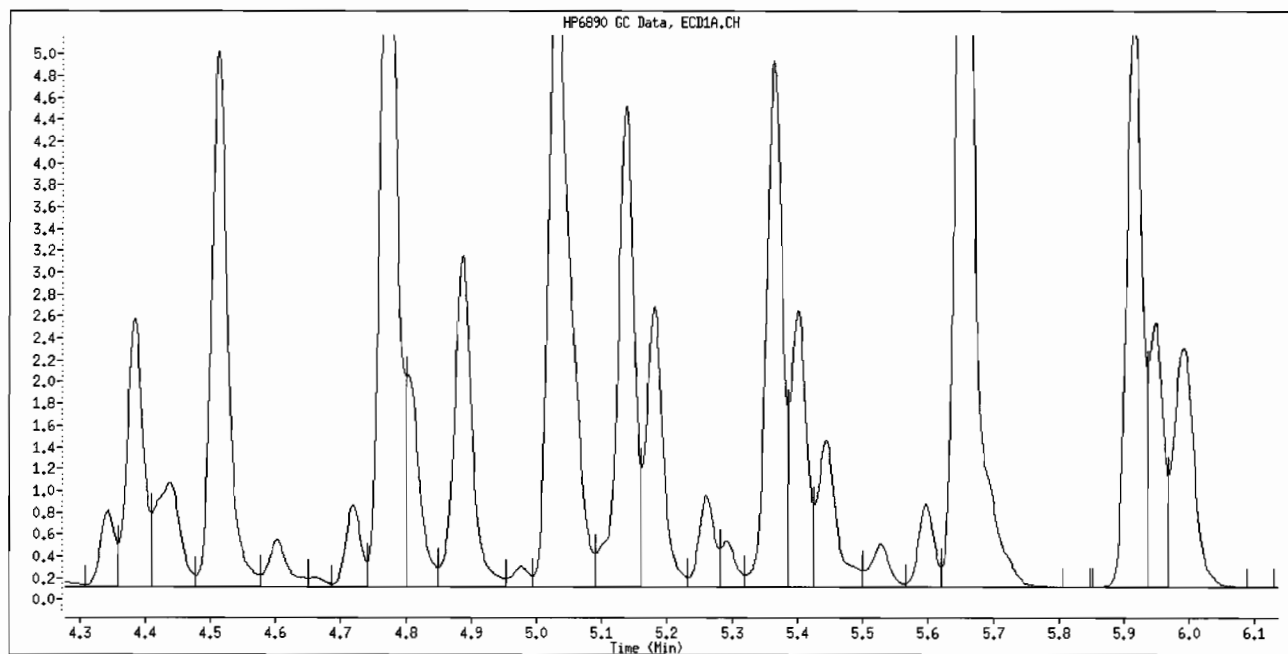
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

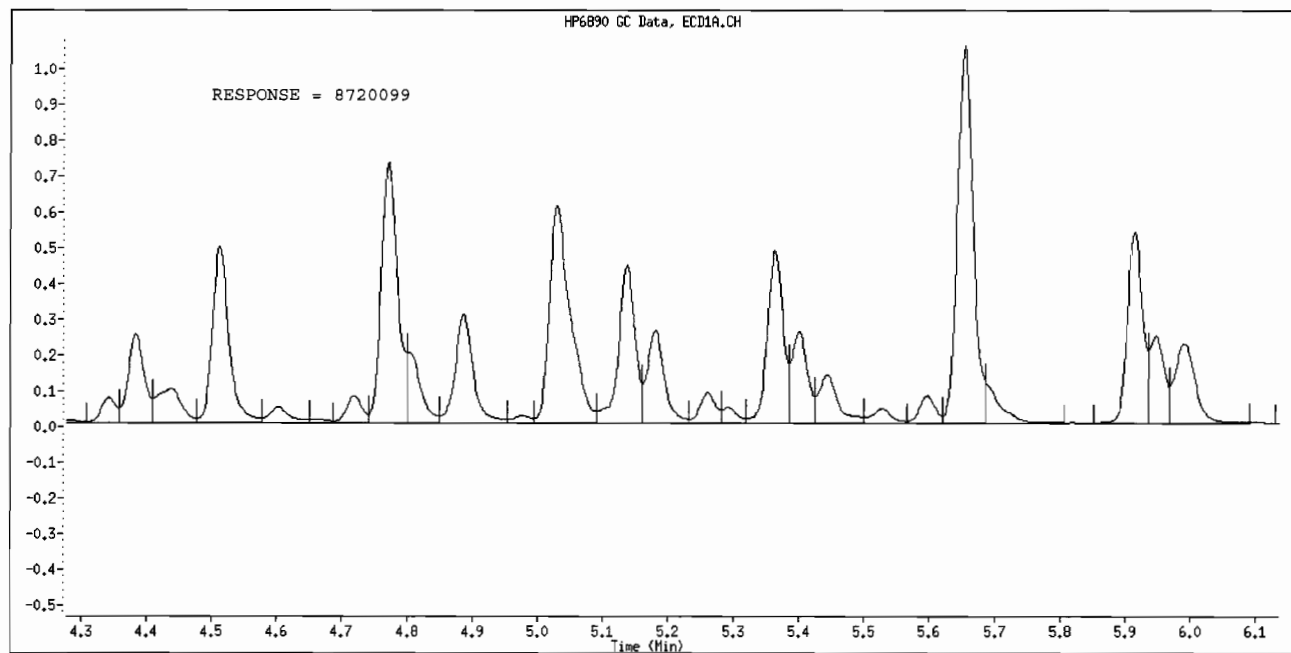
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

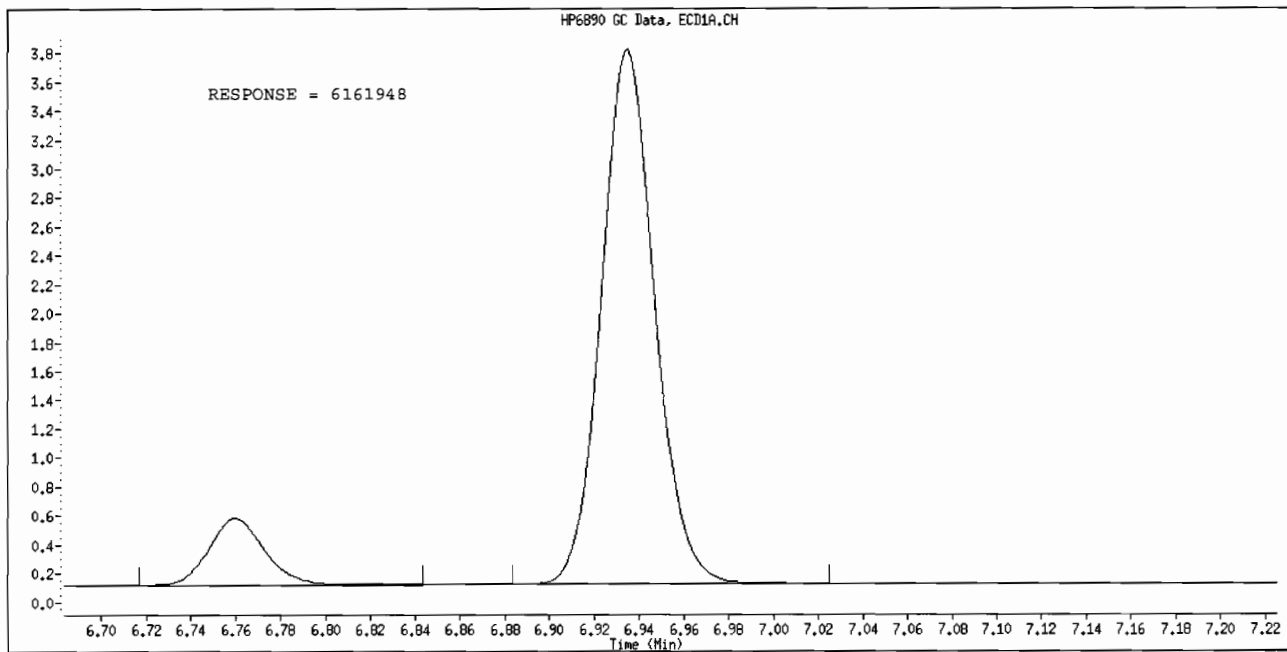
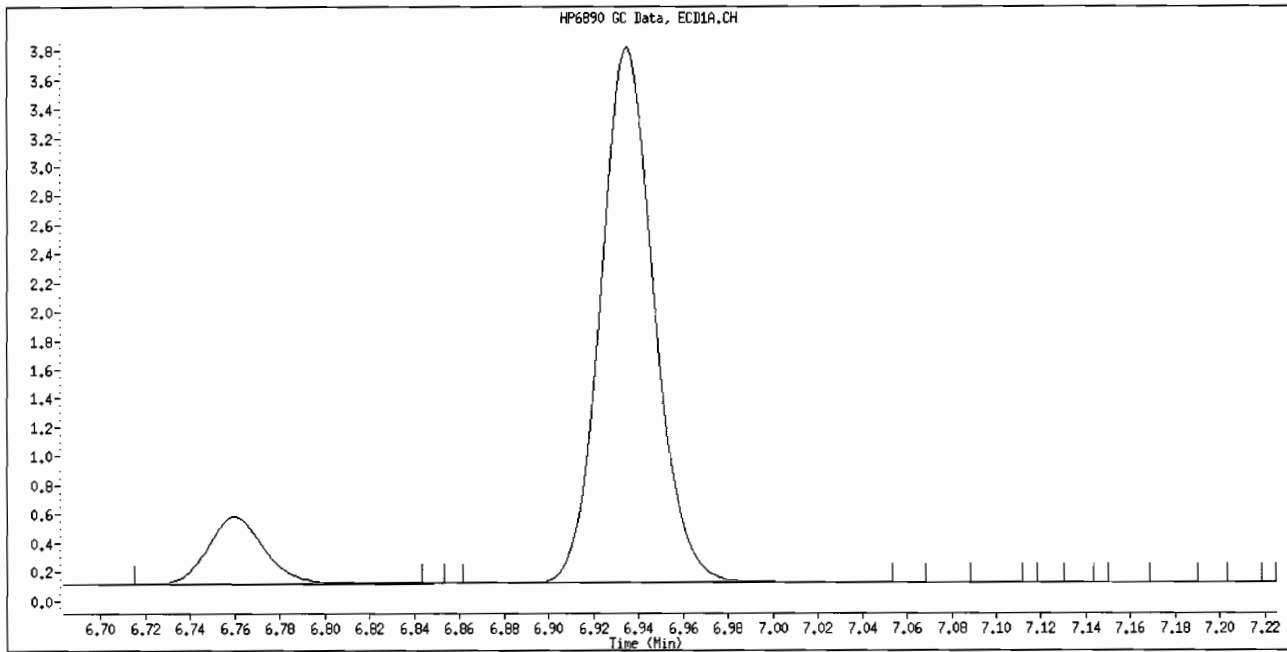
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL906.D

Page 1

Report Date: 26-Mar-2010 12:32

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL906.D

Lab Smp Id: ICAL-8

Inj Date : 26-MAR-2010 11:59

Operator : DEK

Inst ID: Gcv.i

Smp Info : ICAL-8

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

Meth Date : 26-Mar-2010 12:30 target

Quant Type: ESTD

Cal Date : 26-MAR-2010 11:03

Cal File: VCAL903.D

Als bottle: 10

Calibration Sample, Level: 8

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1660.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
22 Aroclor-1016			CAS #: 12674-11-2			
2.221	2.220	0.001	5176105 4000.00	3598	80.00- 120.00	100.00 (M)
2.511	2.510	0.001	10494907 4000.00	3341	161.45- 242.18	202.76
2.911	2.910	0.001	22667691 4000.00	3642	330.47- 495.70	437.93
3.029	3.028	0.001	8956414 4000.00	3588	133.74- 200.62	173.03
3.394	3.391	0.003	9329565 4000.00	3561	137.59- 206.38	180.24
Average of Peak Amounts =			3546.00			

28 Aroclor-1260			CAS #: 11096-82-5			
4.512	4.511	0.001	13121420 4000.00	3609	80.00- 120.00	100.00 (M)
4.771	4.770	0.001	18858710 4000.00	3712	114.22- 171.34	143.72
5.029	5.028	0.001	20388882 4000.00	3796	119.87- 179.80	155.39
5.654	5.651	0.003	27009075 4000.00	3912	158.12- 237.17	205.84
5.914	5.913	0.001	13639435 4000.00	3852	77.99- 116.99	103.95
Average of Peak Amounts =			3776.20			

\$ 32 Decachlorobiphenyl			CAS #:			
6.936	6.933	0.003	9578981 200.000	195.8		(M)



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL906.D  
Report Date: 26-Mar-2010 12:32

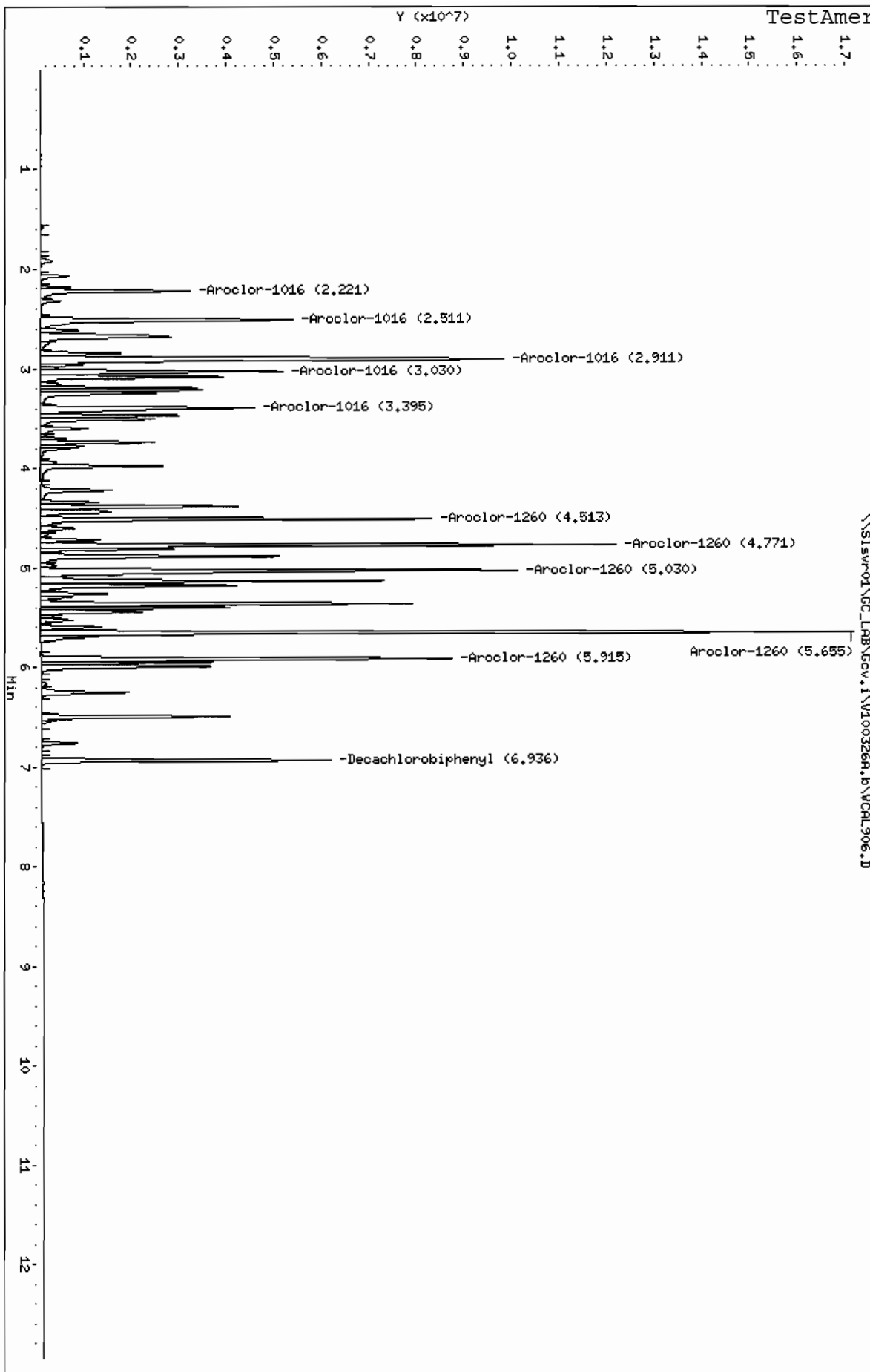
Page 2

QC Flag Legend

M - Compound response manually integrated.

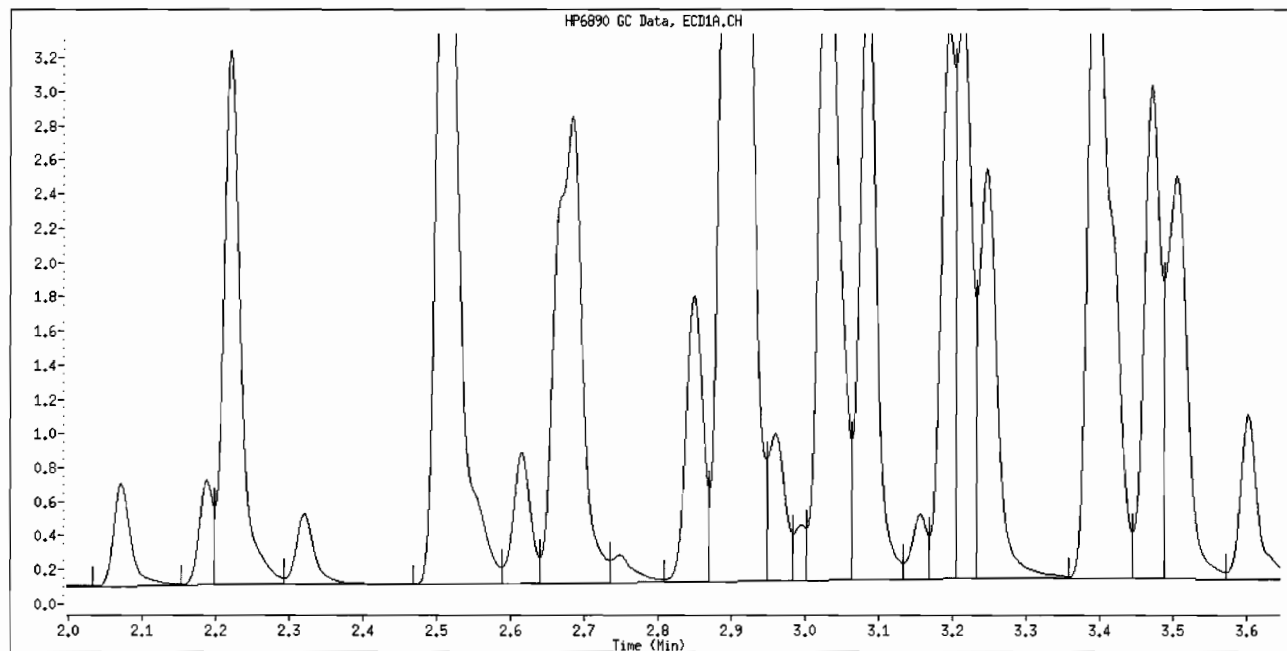
Data File: \\slswr01\GC\_LAB\Gov.i\W100326A.b\WCAL906.D  
 Date: 26-MAR-2010 11:59  
 Client ID:  
 Sample Info: ICAL-8  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53

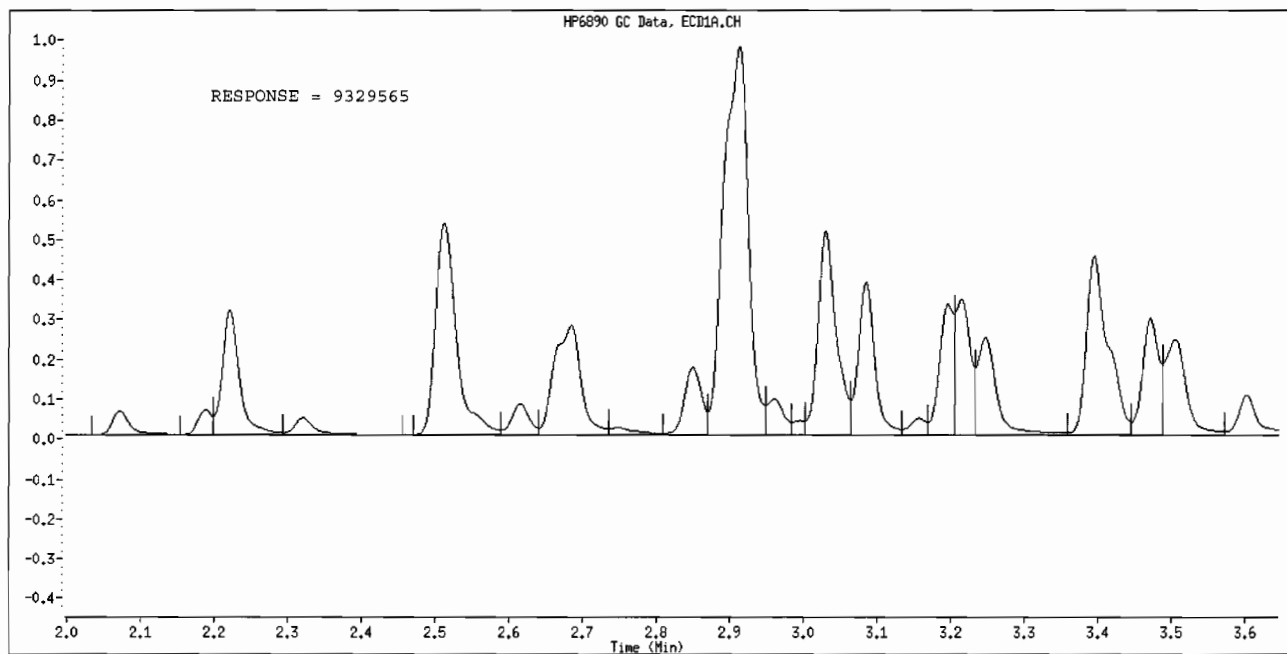


Data File Name: VCAL906.D  
Inj. Date and Time: 26-MAR-2010 11:59  
Instrument ID: Gcv.i  
Client ID:  
Compound Name: Aroclor-1016  
CAS #: 12674-11-2

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

Data File Name: VCAL906.D

TestAmerica St. Louis

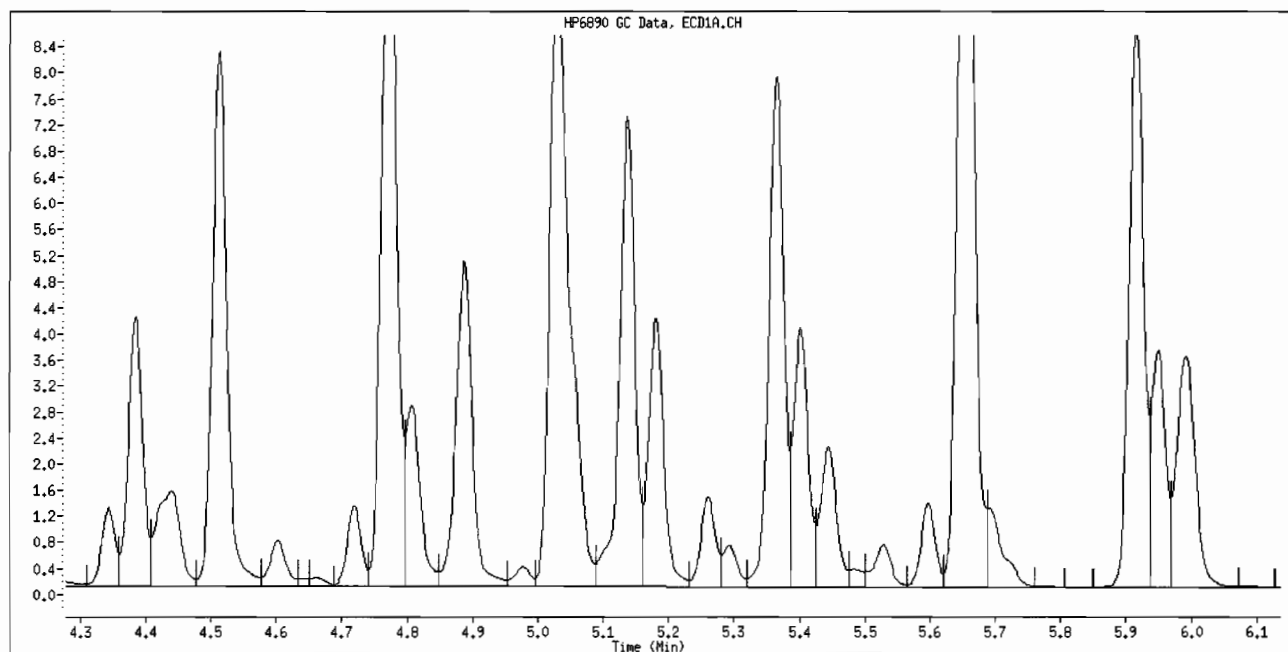
Inj. Date and Time: 26-MAR-2010 11:59

Instrument ID: Gcv.i

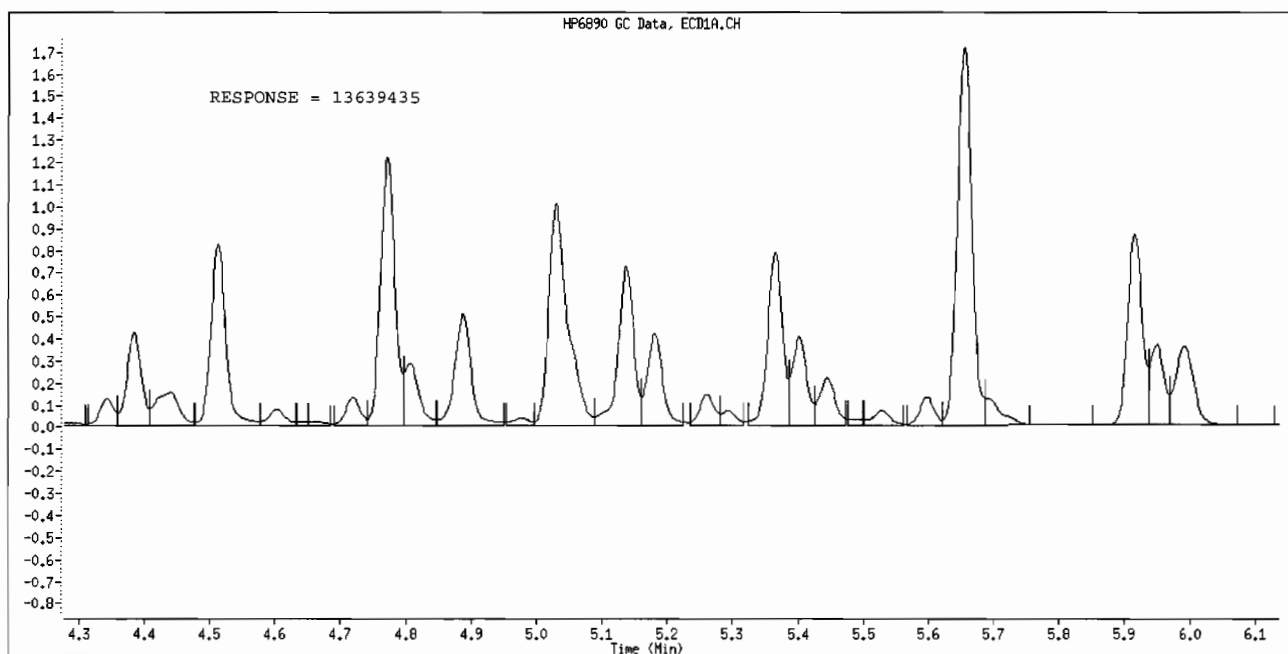
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL906.D

TestAmerica St. Louis

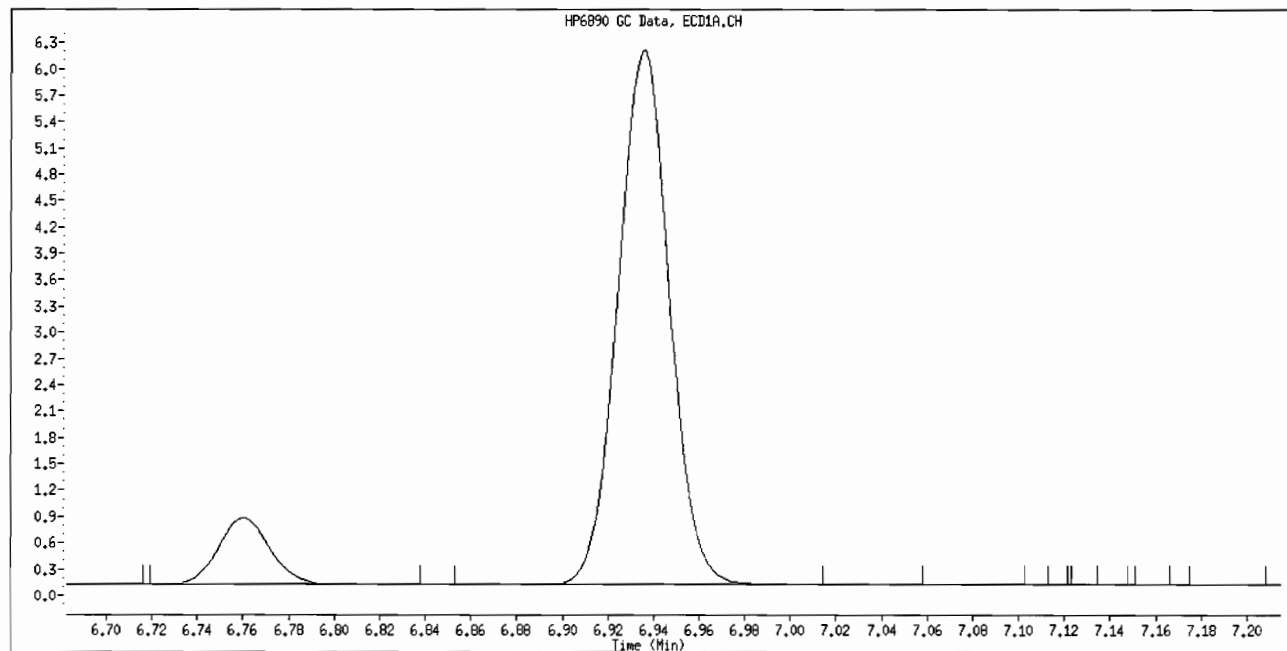
Inj. Date and Time: 26-MAR-2010 11:59

Instrument ID: Gcv.i

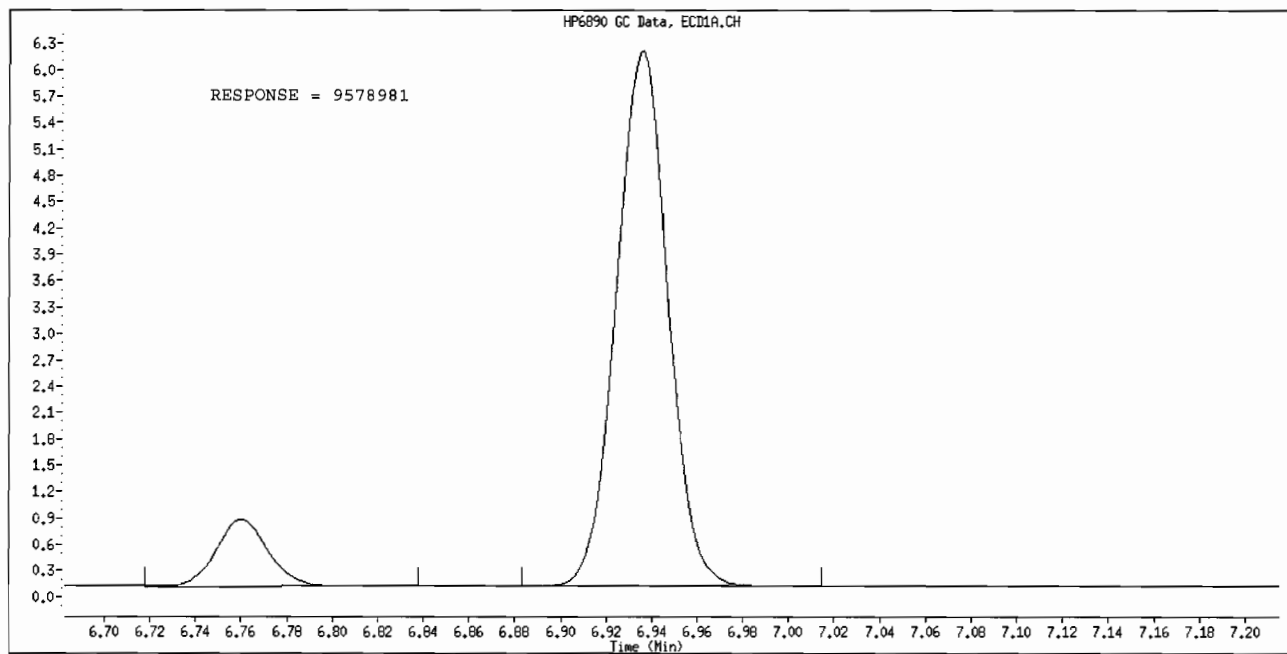
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VICV907.D

Page 1

Report Date: 26-Mar-2010 12:34

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 26-MAR-2010 12:17  
 Lab File ID: VICV907.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 11:59  
 Lab Sample ID: ICV Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF1000	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	1439	1470	0.010	-2.17076	20.00000	Averaged
(2)	3141	2991	0.010	4.79765	20.00000	Averaged
(3)	6225	6130	0.010	1.51782	20.00000	Averaged
(4)	2496	2478	0.010	0.71145	20.00000	Averaged
(5)	2620	2551	0.010	2.64359	20.00000	Averaged
28 Aroclor-1260(1)	3636	3541	0.010	2.62270	20.00000	Averaged
(2)	5081	5042	0.010	0.76196	20.00000	Averaged
(3)	5371	5317	0.010	1.00806	20.00000	Averaged
(4)	6905	6994	0.010	-1.29428	20.00000	Averaged
(5)	3541	3511	0.010	0.85743	20.00000	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VICV907.D  
 Report Date: 26-Mar-2010 12:34

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VICV907.D  
 Lab Smp Id: ICV  
 Inj Date : 26-MAR-2010 12:17  
 Operator : DEK  
 Smp Info : ICV  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 12:33 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Continuing Calibration Sample  
 Compound Sublist: ICV.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.220	0.000	1469769 1000.00	1022	80.00- 120.00	100.00 (M)
2.510	2.510	0.000	2990771 1000.00	952.0	162.79- 244.18	203.49
2.910	2.910	0.000	6130162 1000.00	984.8	333.67- 500.50	417.08
3.028	3.028	0.000	2478268 1000.00	992.9	134.89- 202.34	168.62
3.393	3.391	0.002	2550529 1000.00	973.6	138.83- 208.24	173.53
Average of Peak Amounts =			985.060			

CAS #: 12674-11-2

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	4.511	0.000	3540531 1000.00	973.8	80.00- 120.00	100.00 (M)
4.770	4.770	0.000	5042206 1000.00	992.4	113.93- 170.90	142.41
5.028	5.028	0.000	5316734 1000.00	989.9	120.13- 180.20	150.17
5.653	5.651	0.002	6994001 1000.00	1013	158.03- 237.05	197.54
5.913	5.913	0.000	3510868 1000.00	991.4	79.33- 118.99	99.16
Average of Peak Amounts =			992.100			

CAS #: 11096-82-5

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VICV907.D  
Report Date: 26-Mar-2010 12:34

TestAmerica St. Louis  
Page 2

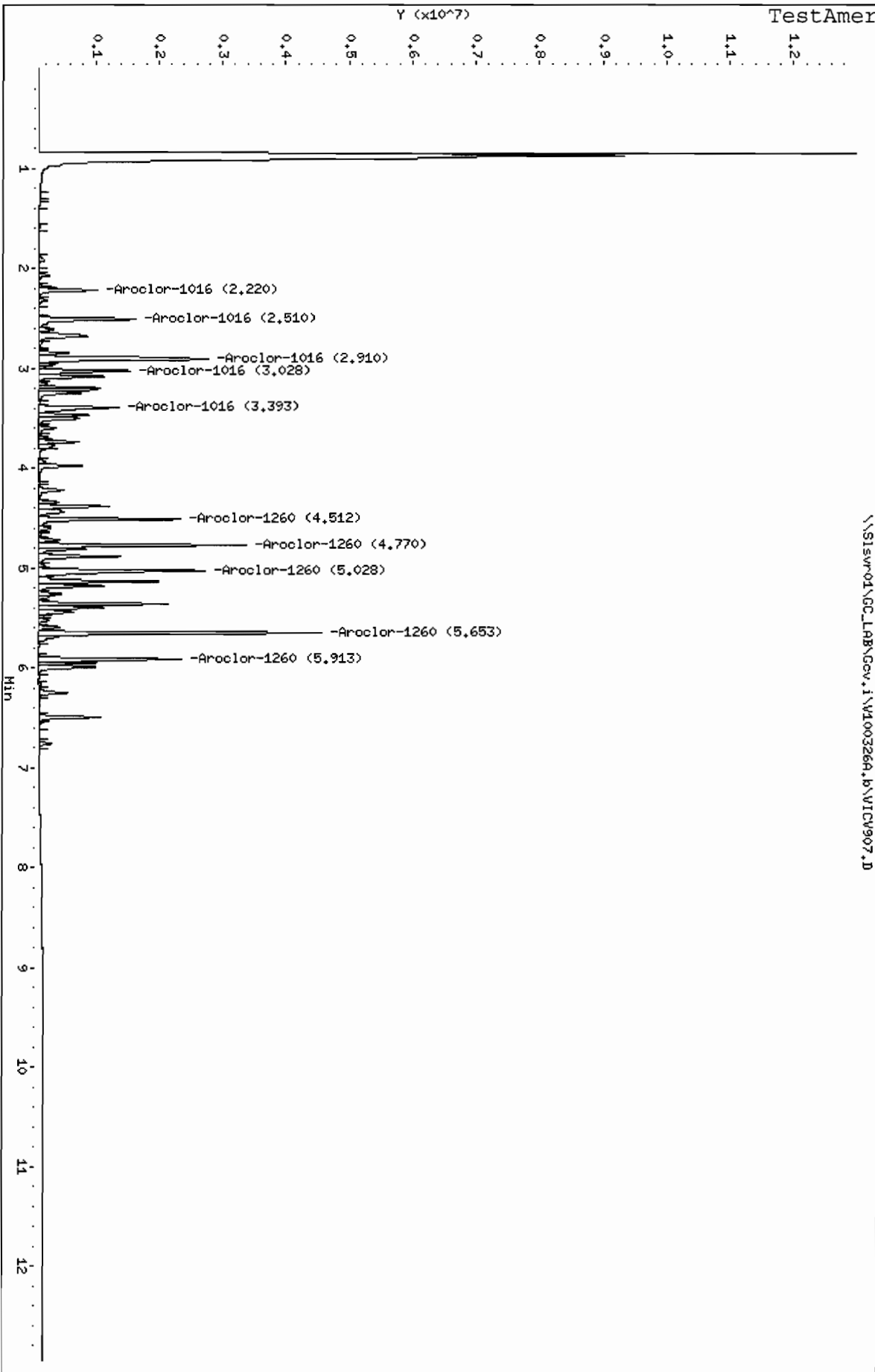
#### QC Flag Legend

M - Compound response manually integrated.



Data File: \\slswr01\GC\_LAB\Gov.i\14100326a,b\VICV907.D  
Date: 26-MAR-2010 12:17  
Client ID:  
Sample Info: ICV  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VICV907.D TestAmerica St. Louis  
Report Date: 03/26/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VICV907.D  
Analysis Type: SOIL

Injection Date: 26-MAR-2010 12:17  
Lab Sample ID: ICV  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\808:

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	985.0005	1.5	20.0
486539264 Aroclor-1260	1000.0000	992.0883	0.8	20.0

Data File Name: VICV907.D

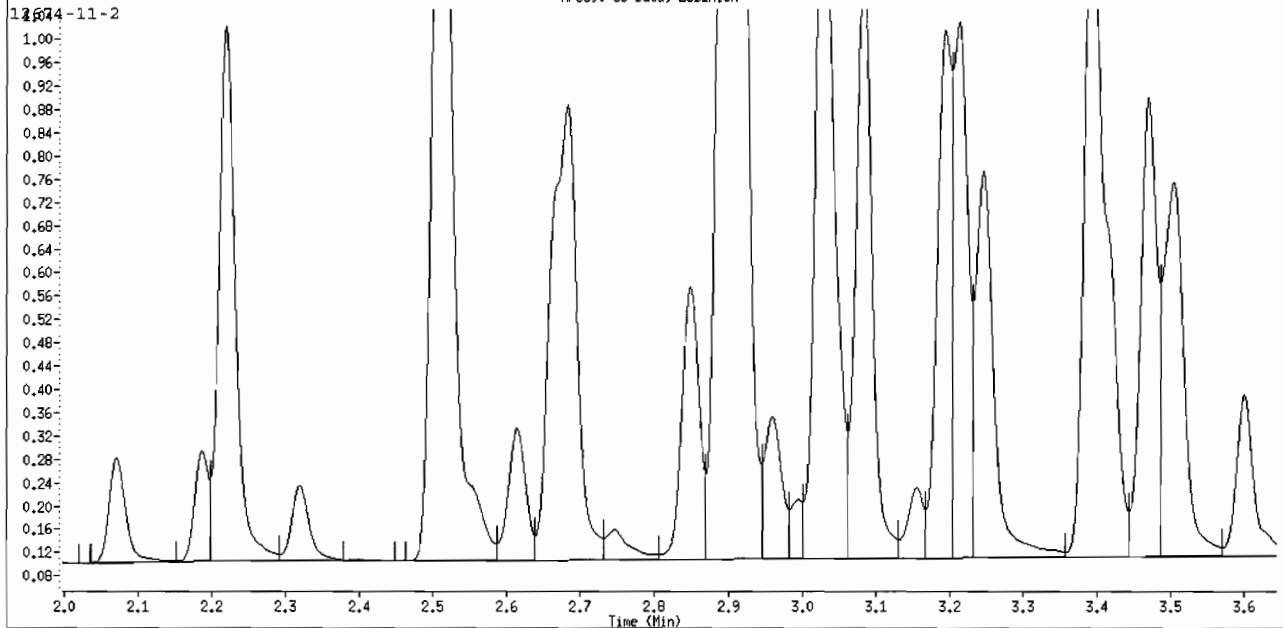
Inj. Date and Time: 26-MAR-2010 12:17

Instrument ID: Gcv.i

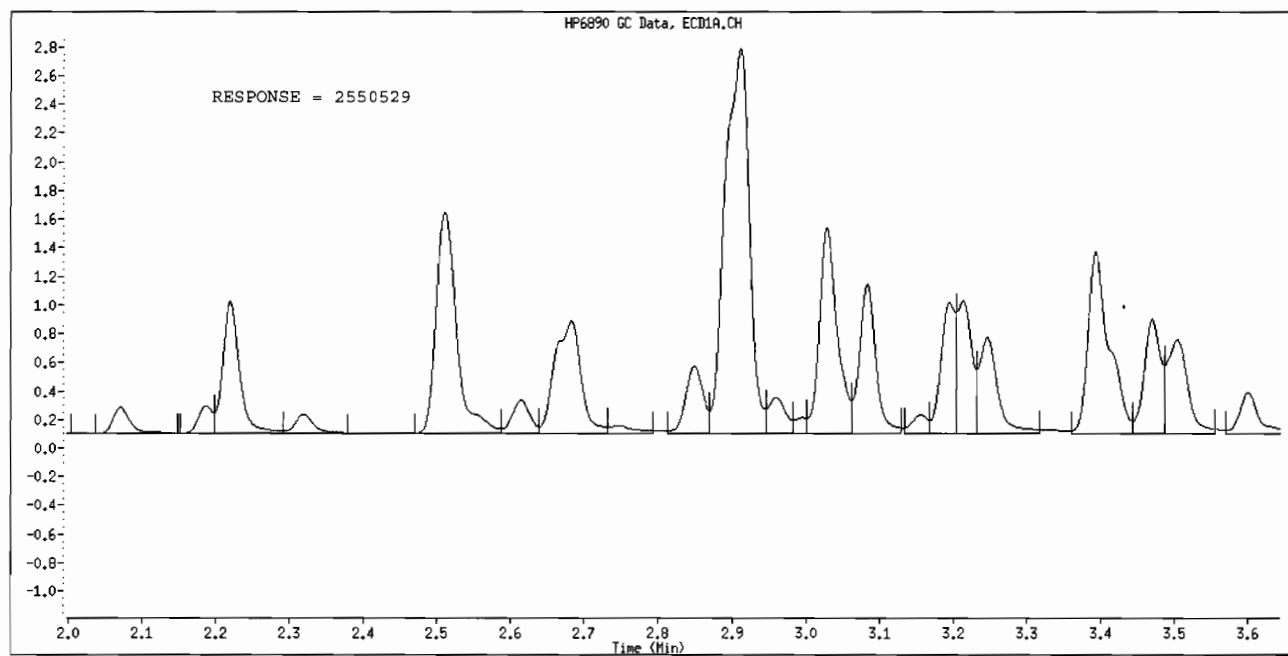
Client ID:

Compound Name: ~~Aroclor-1016~~CAS #: ~~12674-11-2~~

HP6890 GC Data, ECD1A.CH



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VICV907.D

TestAmerica St. Louis

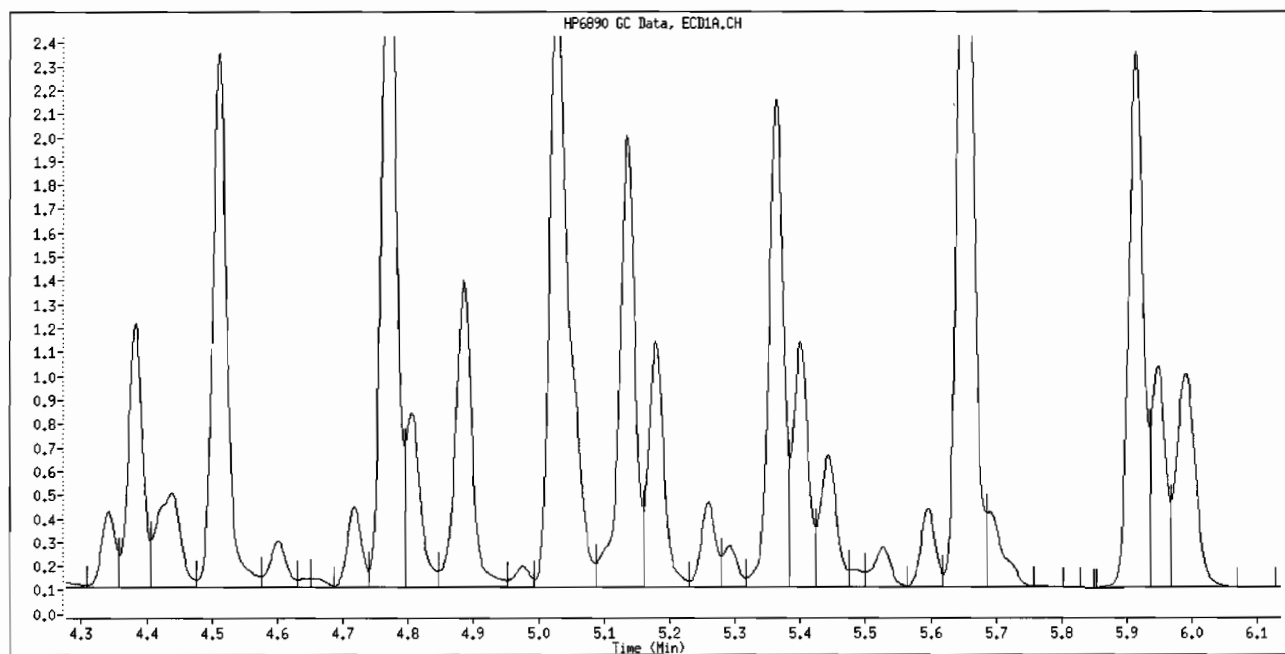
Inj. Date and Time: 26-MAR-2010 12:17

Instrument ID: Gcv.i

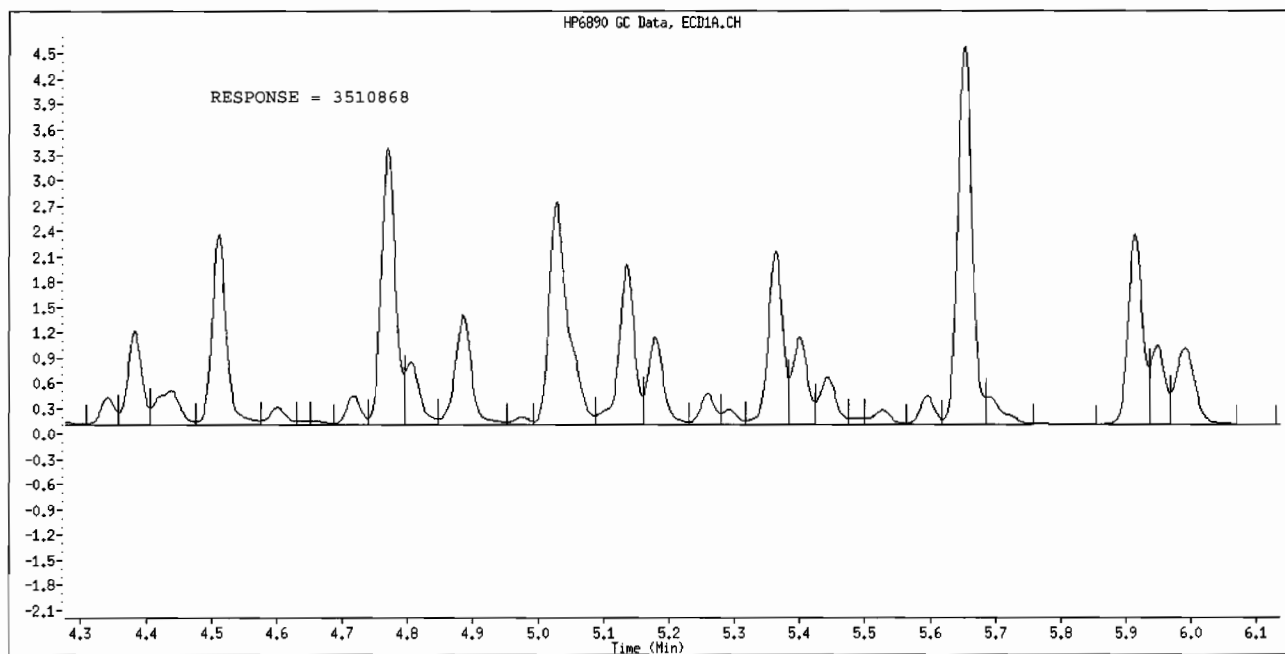
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL908.D

Page 1

Report Date: 26-Mar-2010 15:14

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL908.D

Lab Smp Id: 1232

Inj Date : 26-MAR-2010 12:36

Operator : DEK

Inst ID: Gcv.i

Smp Info : 1232

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

Meth Date : 26-Mar-2010 15:13 target Quant Type: ESTD

Cal Date : 26-MAR-2010 12:36 Cal File: VCAL908.D

Als bottle: 12 Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1232.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

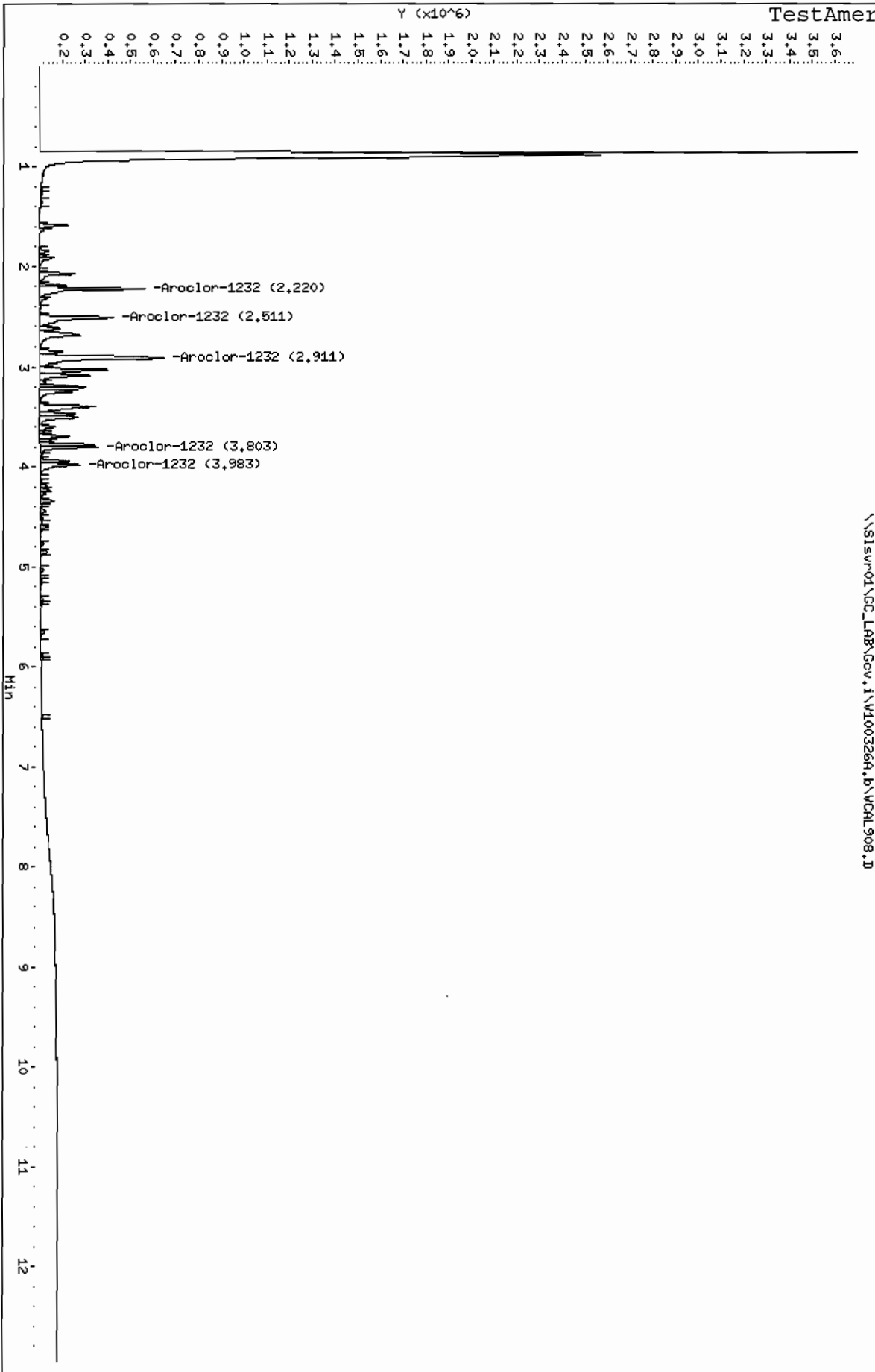
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
24	Aroclor-1232				CAS #: 1114-16-5	
2.219	2.219	0.000	856077 500.000	500.0	80.00- 120.00	100.00 (M)
2.511	2.511	0.000	763486 500.000	500.0	71.35- 107.02	89.18
2.911	2.911	0.000	1495447 500.000	500.0	139.75- 209.62	174.69
3.803	3.803	0.000	460806 500.000	500.0	43.06- 64.59	53.83
3.983	3.983	0.000	390621 500.000	500.0	36.50- 54.76	45.63
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsvr01\GC\_LAB\Gcv,i\W100326A,b\WCAL908.D  
 Date : 26-MAR-2010 12:36  
 Client ID:  
 Sample Info: 1232  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcv,i  
 Operator: JEK  
 Column diameter: 0.53



Data File Name: VCAL908.D

TestAmerica St. Louis

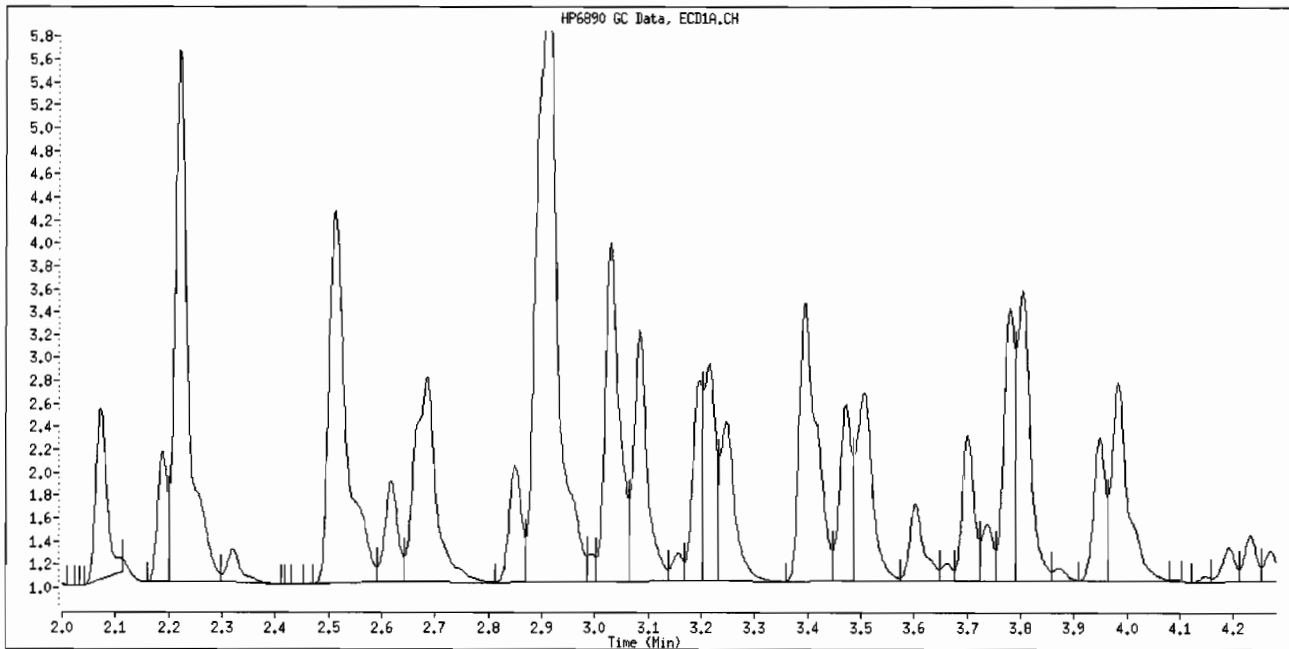
Inj. Date and Time: 26-MAR-2010 12:36

Instrument ID: Gcv.i

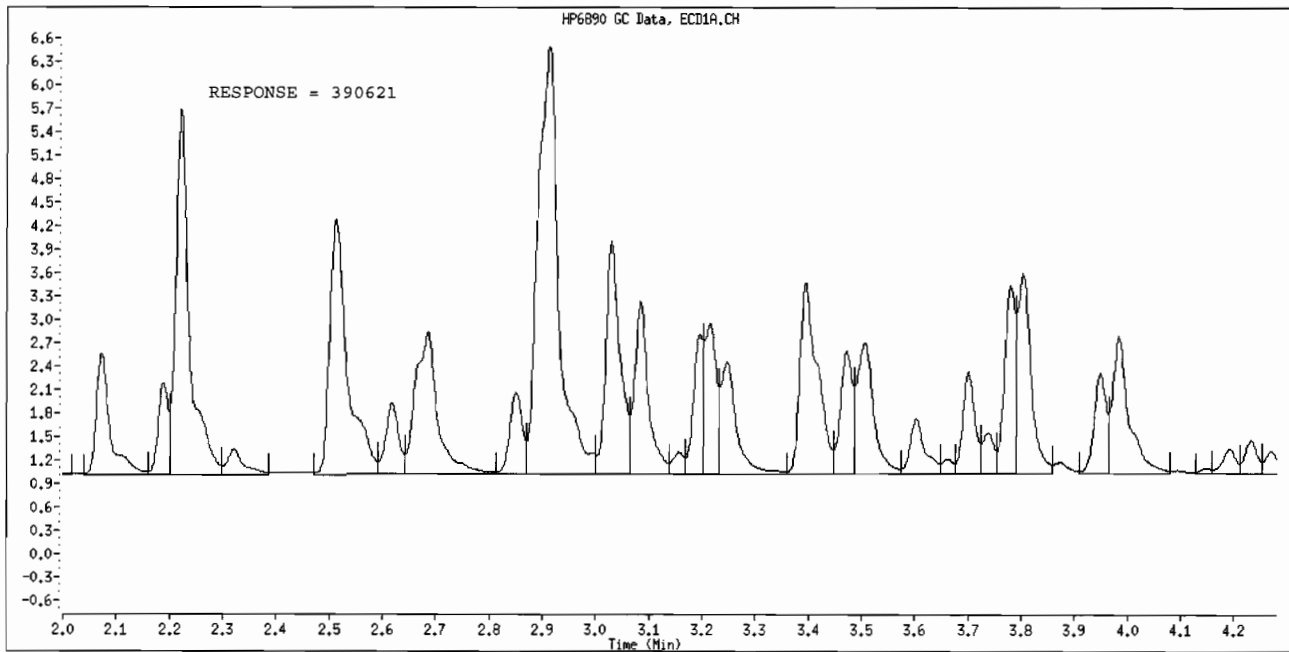
Client ID:

Compound Name: Aroclor-1232

CAS #: 1114-16-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL909.D

Page 1

Report Date: 26-Mar-2010 15:15

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL909.D

Lab Smp Id: 1242

Inj Date : 26-MAR-2010 12:54

Operator : DEK

Inst ID: Gcv.i

Smp Info : 1242

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m

Meth Date : 26-Mar-2010 15:13 target

Quant Type: ESTD

Cal Date : 26-MAR-2010 12:54

Cal File: VCAL909.D

Als bottle: 13

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1242.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
25	Aroclor-1242				CAS #: 53469-21-9	
2.510	2.510	0.000	1270524 500.000	500.0	80.00- 120.00	100.00 (M)
2.683	2.683	0.000	582371 500.000	500.0	36.67- 55.00	45.84
2.911	2.911	0.000	2476761 500.000	500.0	155.95- 233.93	194.94
3.803	3.803	0.000	813058 500.000	500.0	51.20- 76.79	63.99
3.981	3.981	0.000	681881 500.000	500.0	42.94- 64.40	53.67
Average of Peak Amounts =			500.000			

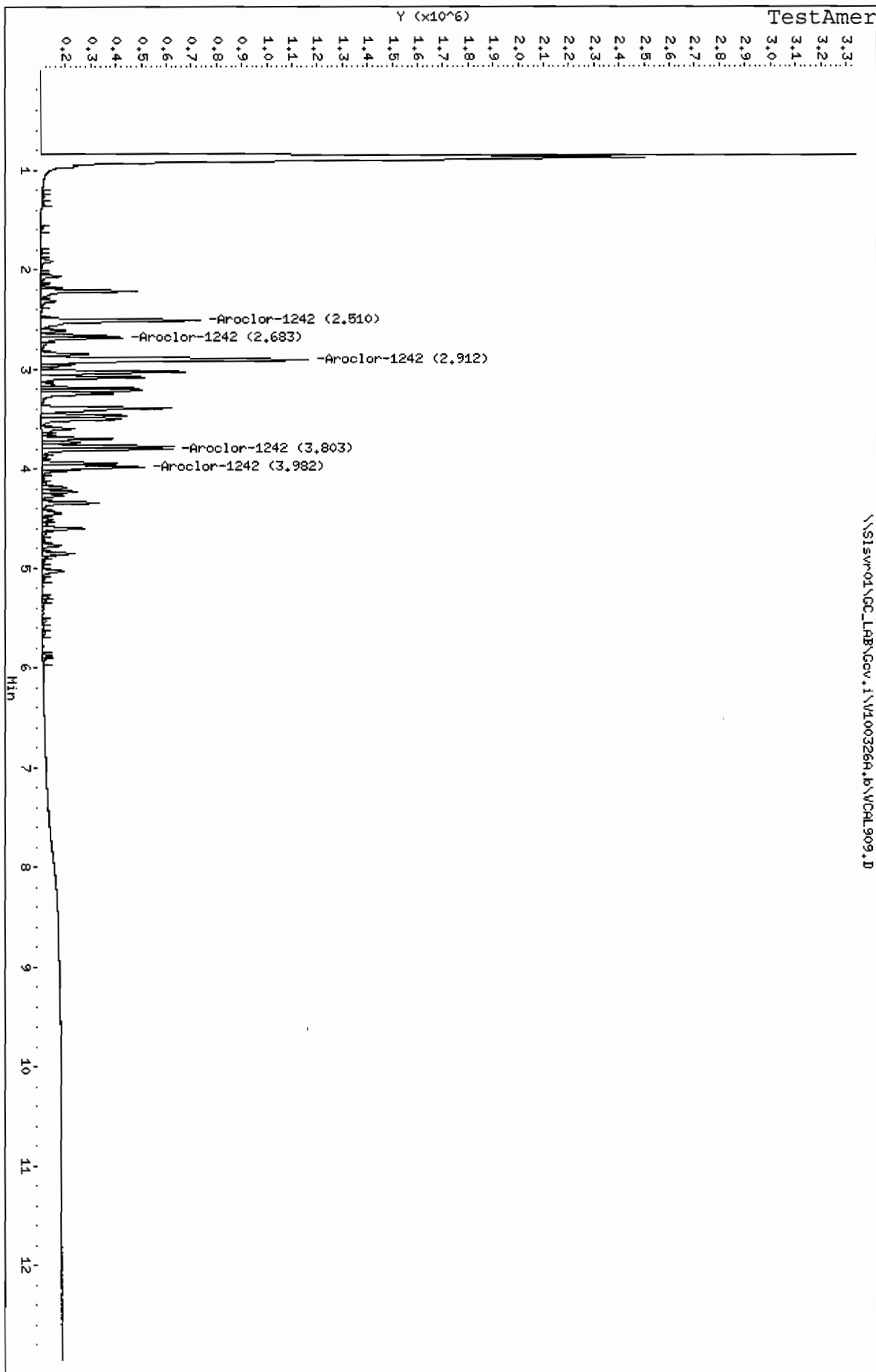
## QC Flag Legend

M - Compound response manually integrated.



Data File: \\slsvr01\DC\_LAB\Gov.i\14100326a.b\WCL909.D  
 Date : 26-Mar-2010 12:54  
 Client ID:  
 Sample Info: 1242  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



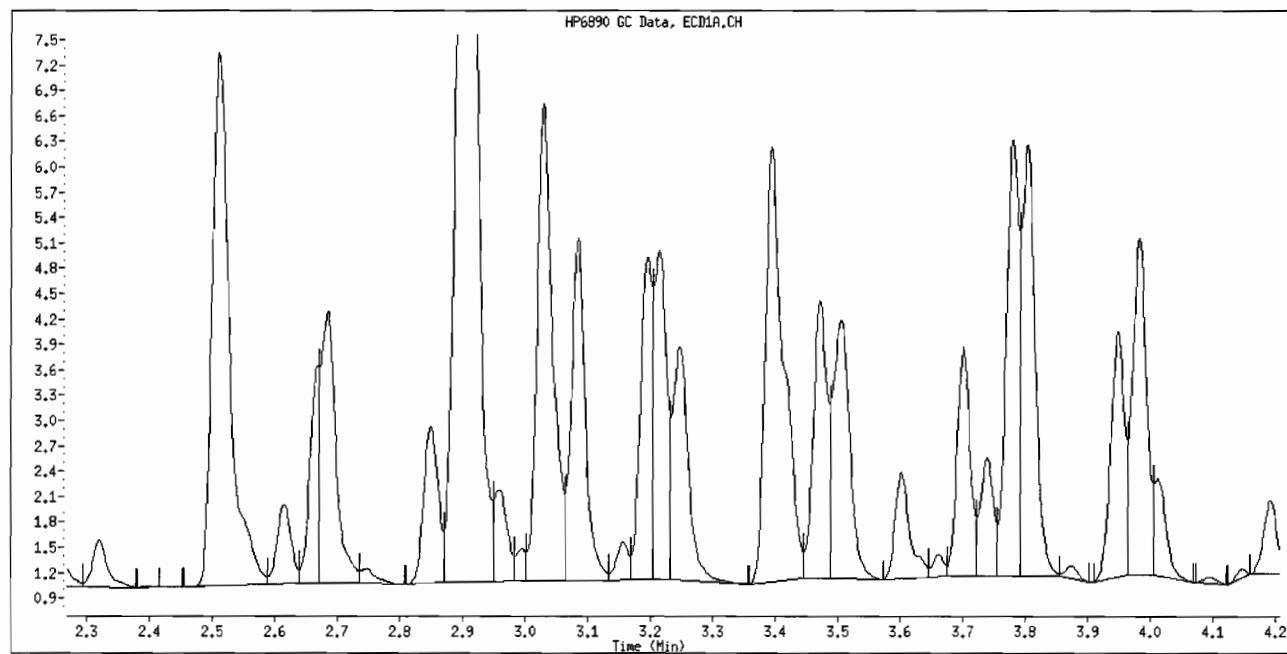
Inj. Date and Time: 26-MAR-2010 12:54

Instrument ID: Gcv.i

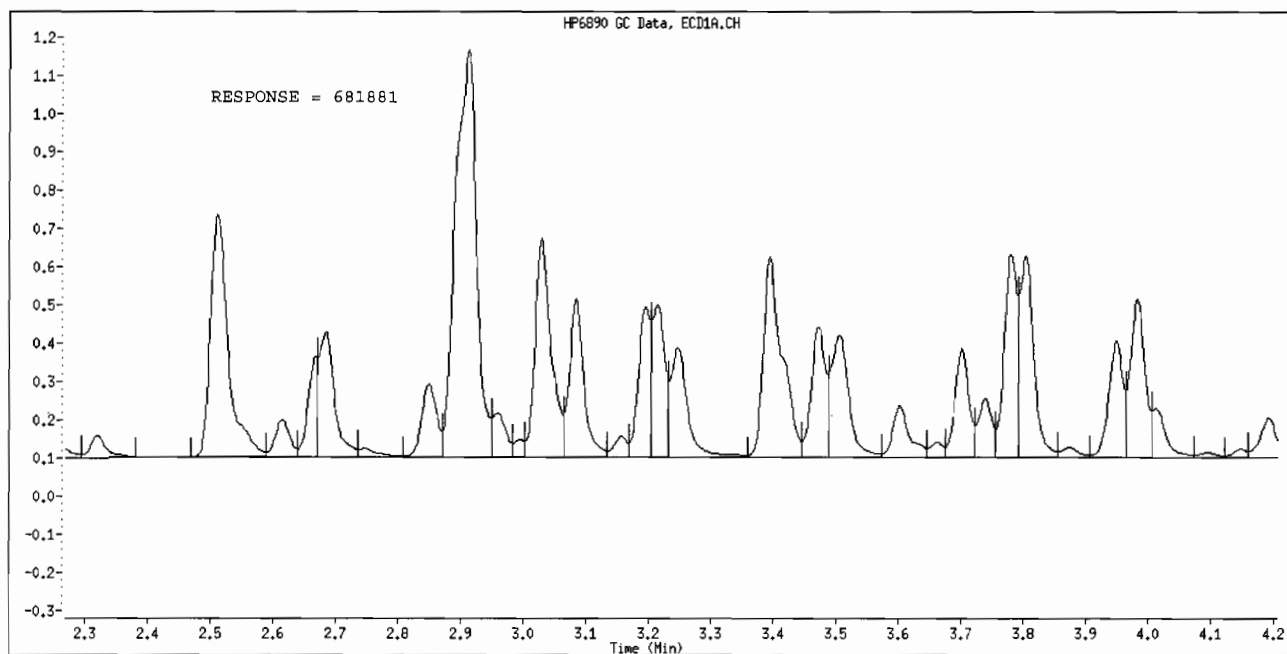
Client ID:

Compound Name: Aroclor-1242

CAS #: 53469-21-9



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL910.D  
 Report Date: 26-Mar-2010 15:15

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL910.D  
 Lab Smp Id: 1248  
 Inj Date : 26-MAR-2010 13:13  
 Operator : DEK  
 Smp Info : 1248  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 15:13 target  
 Cal Date : 26-MAR-2010 13:13  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL910.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1248.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

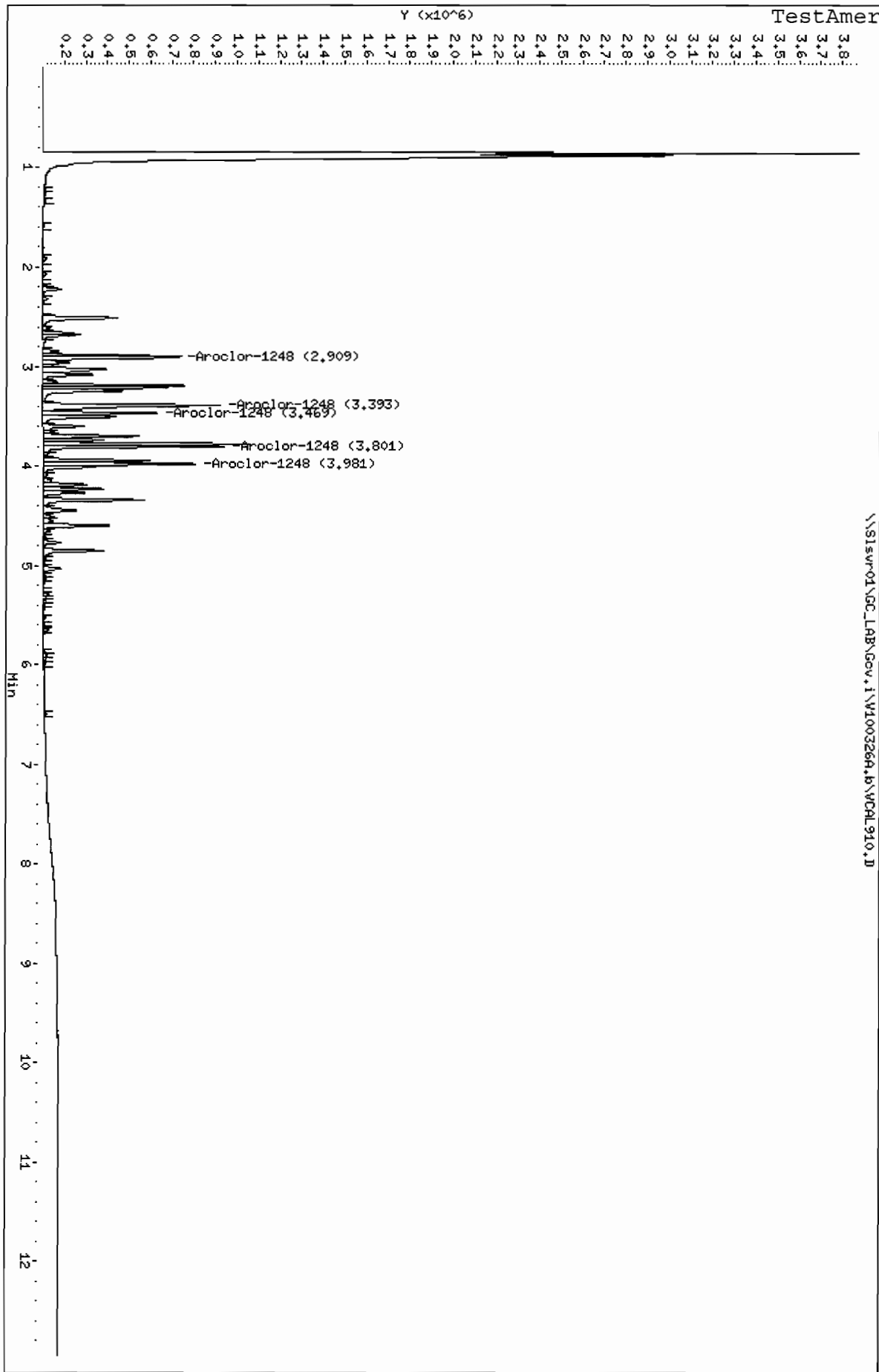
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
26	Aroclor-1248				CAS #: 12672-29-6	
2.909	2.909	0.000	912774 500.000	500.0	80.00- 120.00	100.00 (M)
3.392	3.392	0.000	1604375 500.000	500.0	140.62- 210.92	175.77
3.469	3.469	0.000	866187 500.000	500.0	75.92- 113.88	94.90
3.801	3.801	0.000	1269908 500.000	500.0	111.30- 166.95	139.13
3.981	3.981	0.000	1162558 500.000	500.0	101.89- 152.84	127.37
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\W100326A.b\WCAL910.D  
 Date : 26-MAR-2010 13:13  
 Client ID:  
 Sample Info: 1248  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: VCAL910.D

TestAmerica St. Louis

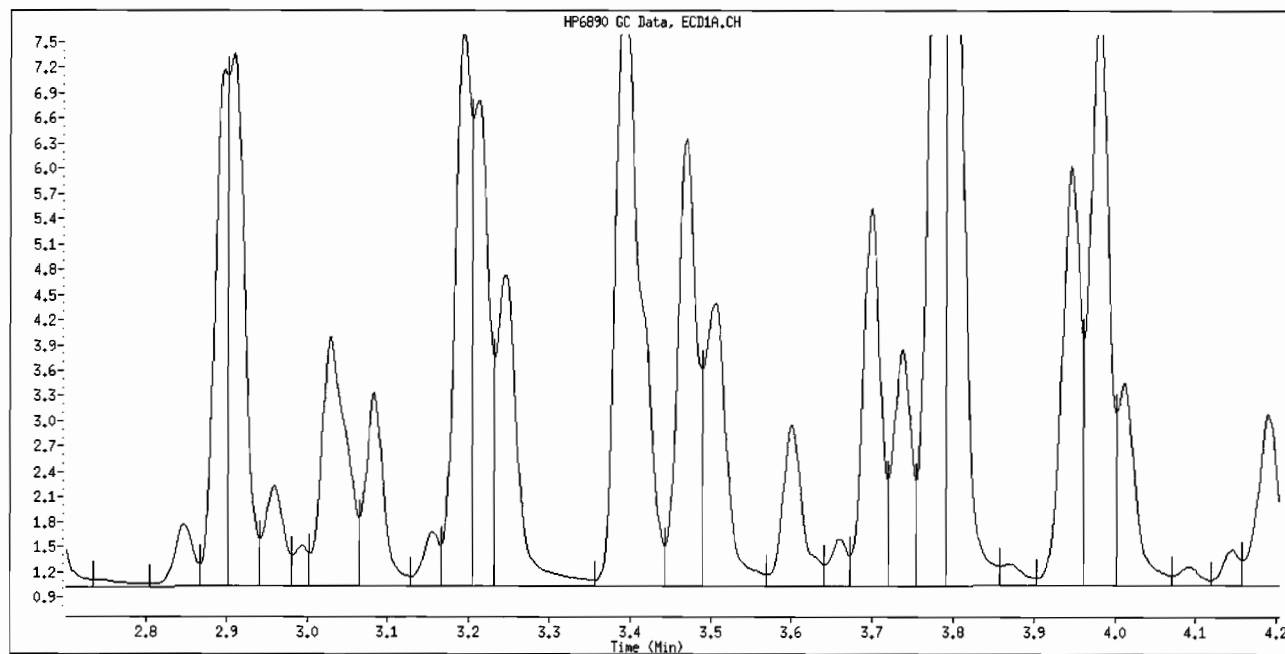
Inj. Date and Time: 26-MAR-2010 13:13

Instrument ID: Gcv.i

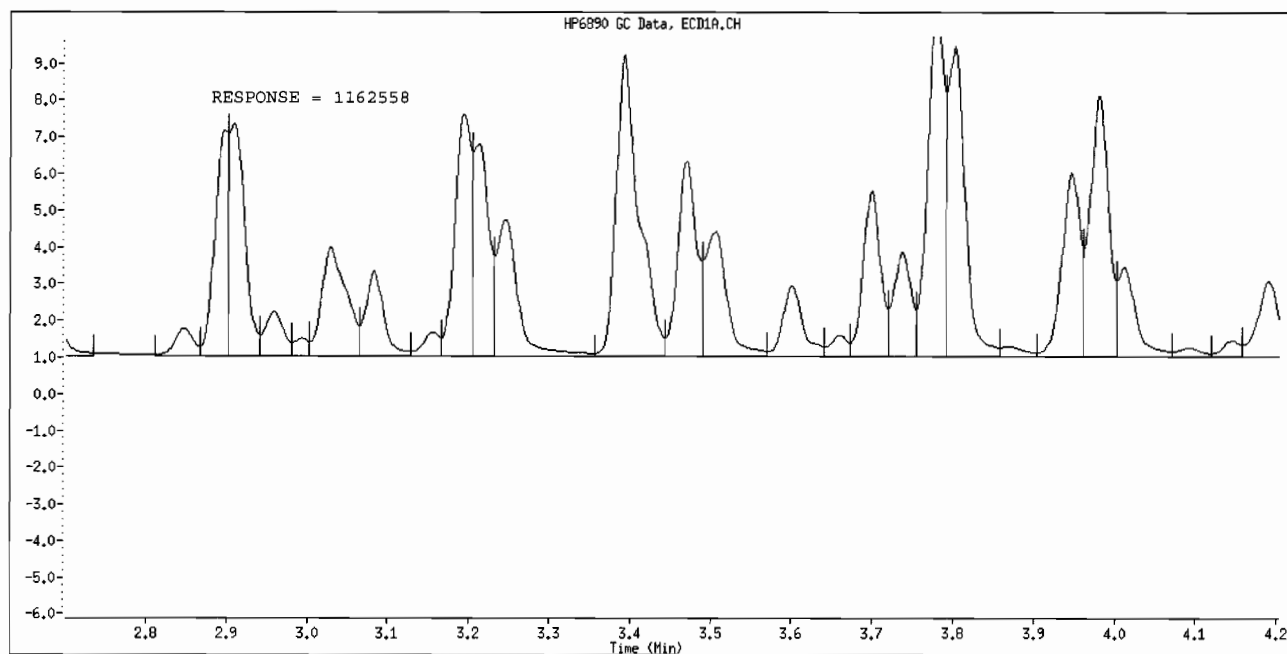
Client ID:

Compound Name: Aroclor-1248

CAS #: 12672-29-6



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL911.D  
 Report Date: 26-Mar-2010 15:16

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL911.D  
 Lab Smp Id: 1221/1254  
 Inj Date : 26-MAR-2010 13:31  
 Operator : DEK  
 Smp Info : 1221/1254  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 15:13 target  
 Cal Date : 26-MAR-2010 13:31  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL911.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar2154.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
23						
Aroclor-1221					CAS #: 11104-28-2	
1.581	1.581	0.000	354381 500.000	500.0	80.00- 120.00	100.00 (M)
2.071	2.071	0.000	419440 500.000	500.0	94.69- 142.03	118.36
2.221	2.221	0.000	1002765 500.000	500.0	226.37- 339.55	282.96
Average of Peak Amounts =				500.000		

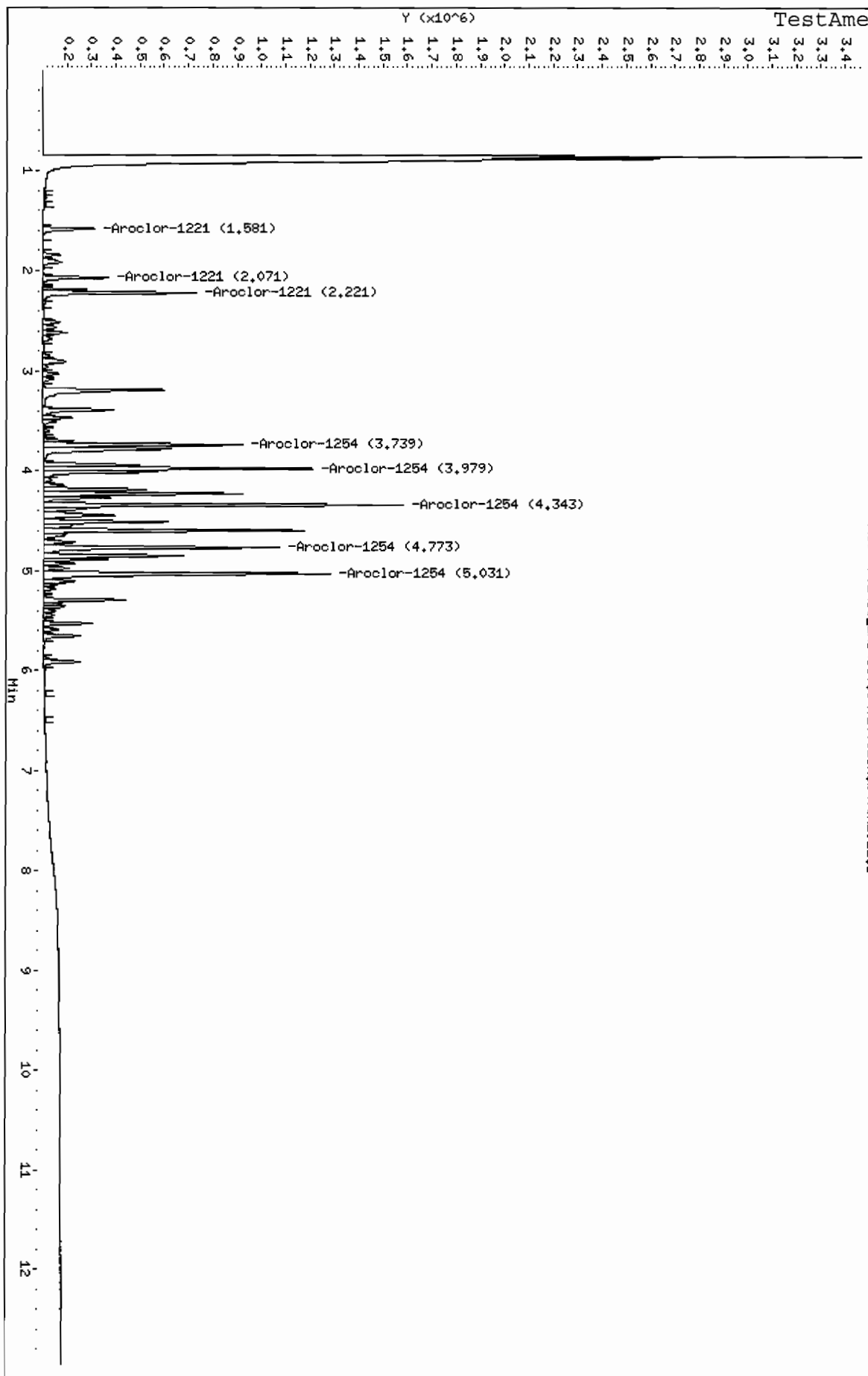
27						
Aroclor-1254					CAS #: 11097-69-1	
3.739	3.739	0.000	1236548 500.000	500.0	80.00- 120.00	100.00 (M)
3.979	3.979	0.000	1780641 500.000	500.0	115.20- 172.80	144.00
4.342	4.342	0.000	2204026 500.000	500.0	142.59- 213.89	178.24
4.772	4.772	0.000	1574015 500.000	500.0	101.83- 152.75	127.29
5.031	5.031	0.000	2224221 500.000	500.0	143.90- 215.85	179.87
Average of Peak Amounts =				500.000		

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\SLSW01\GC\_LAB\Gov.i\1100326A.b\WCAL911.D  
 Date: 26-MAR-2010 13:31  
 Client ID:  
 Sample Info: 1221/1254  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



\\SLSW01\GC\_LAB\Gov.i\1100326A.b\WCAL911.D

Data File Name: VCAL911.D

TestAmerica St. Louis

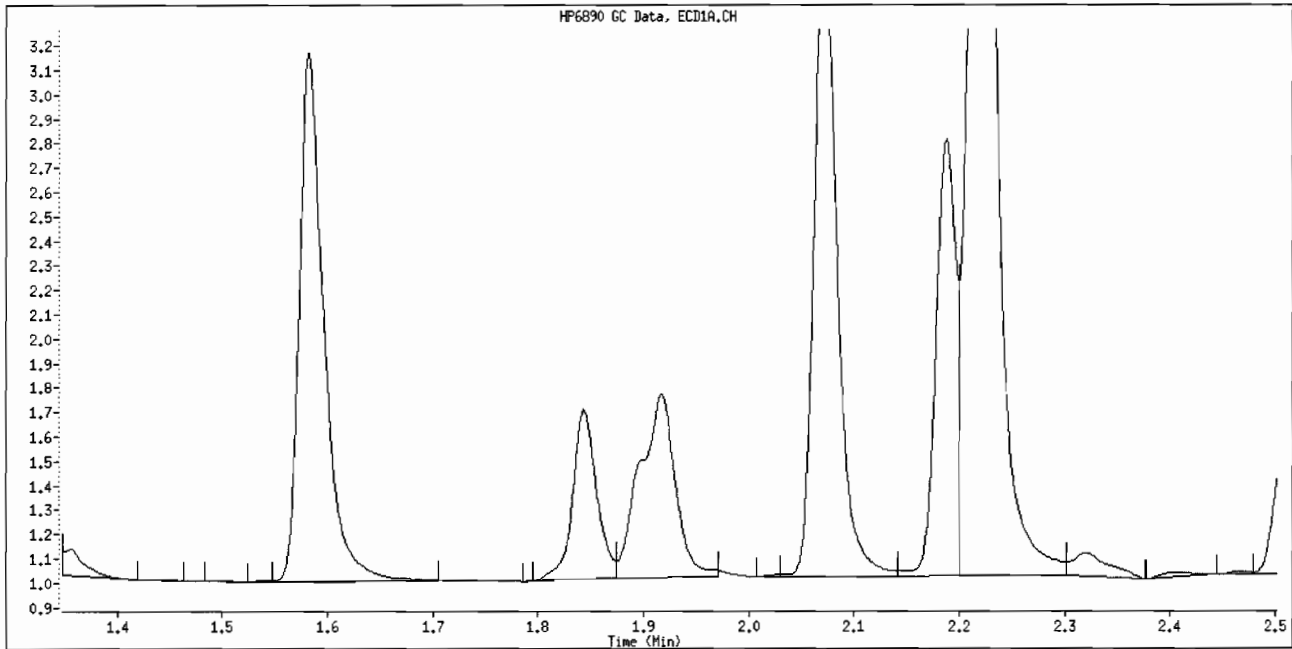
Inj. Date and Time: 26-MAR-2010 13:31

Instrument ID: Gcv.i

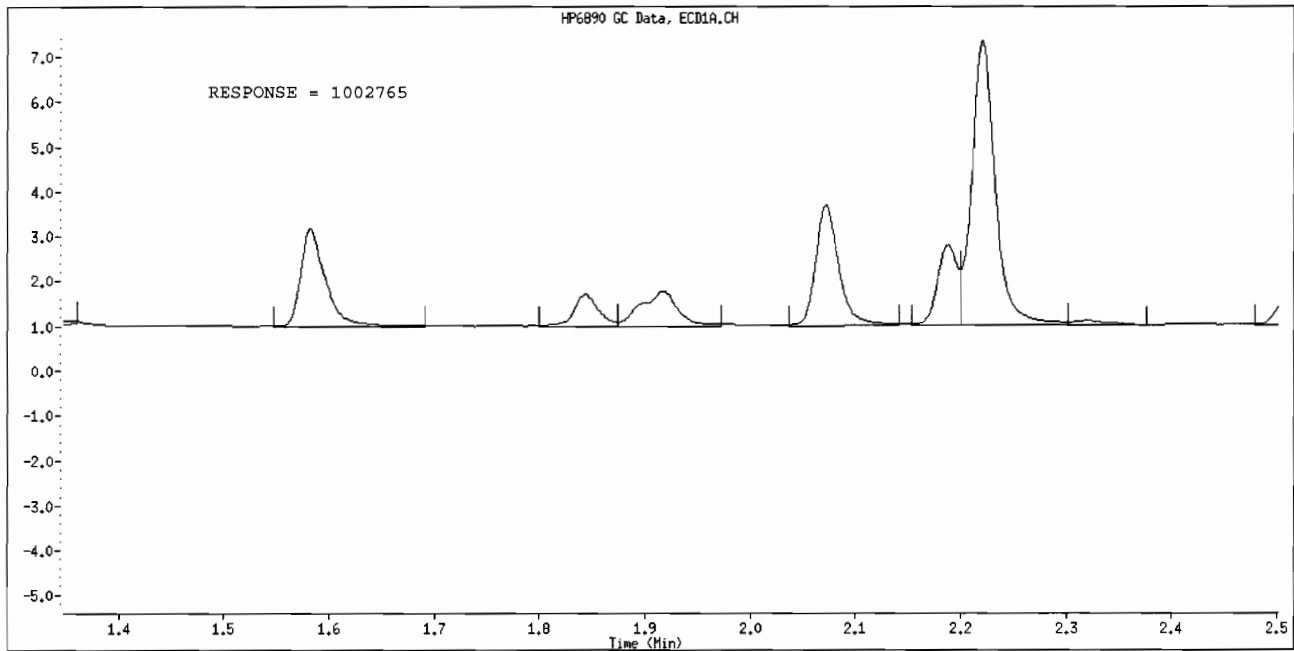
Client ID:

Compound Name: Aroclor-1221

CAS #: 11104-28-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



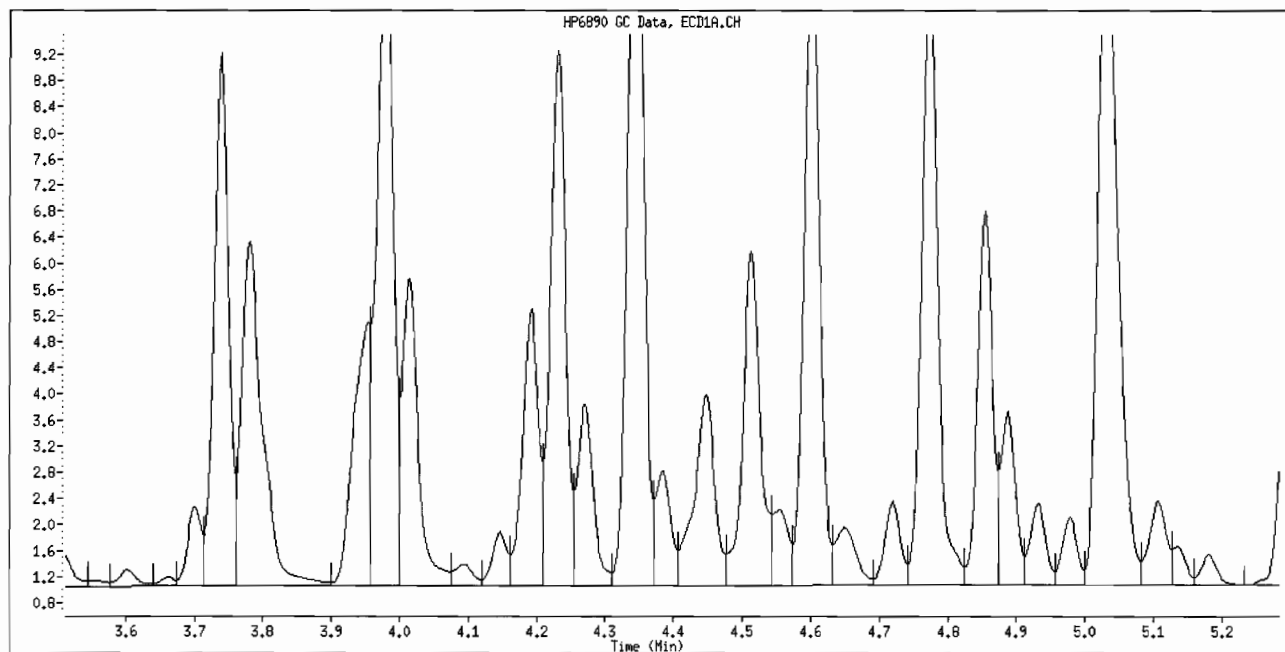
Inj. Date and Time: 26-MAR-2010 13:31

Instrument ID: Gcv.i

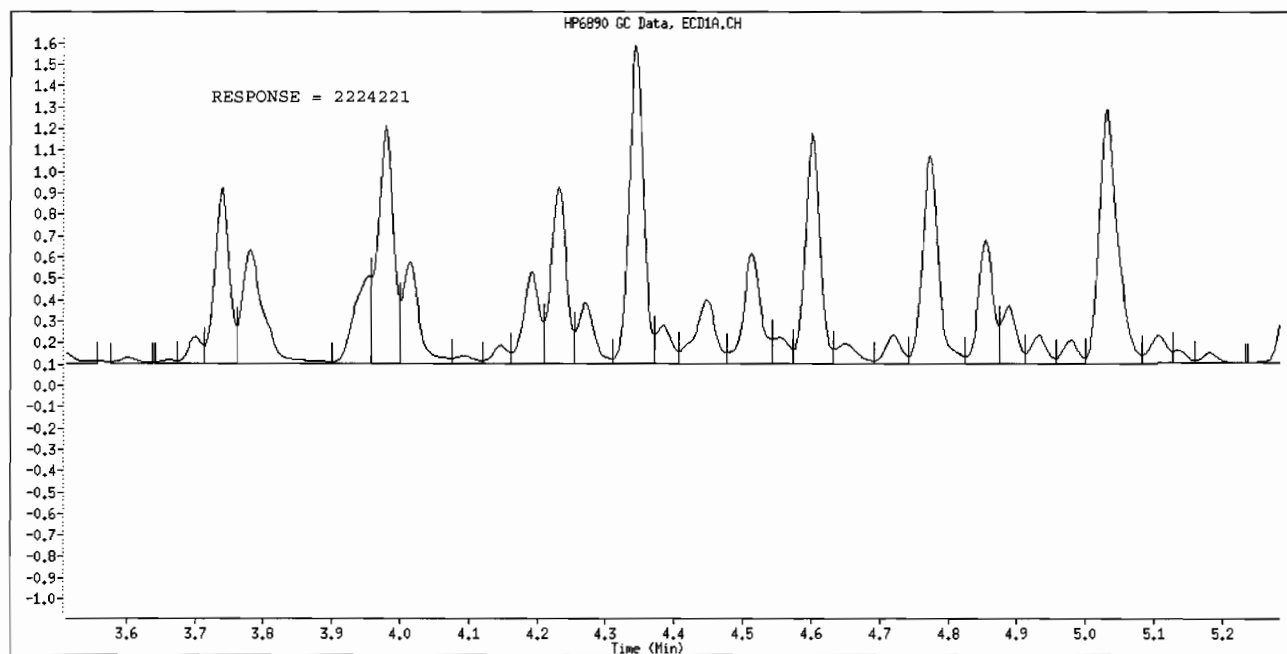
Client ID:

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL912.D  
 Report Date: 26-Mar-2010 15:16

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL912.D  
 Lab Smp Id: 1262  
 Inj Date : 26-MAR-2010 13:50  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : 1262  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 15:13 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 13:50 Cal File: VCAL912.D  
 Als bottle: 16 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1262.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

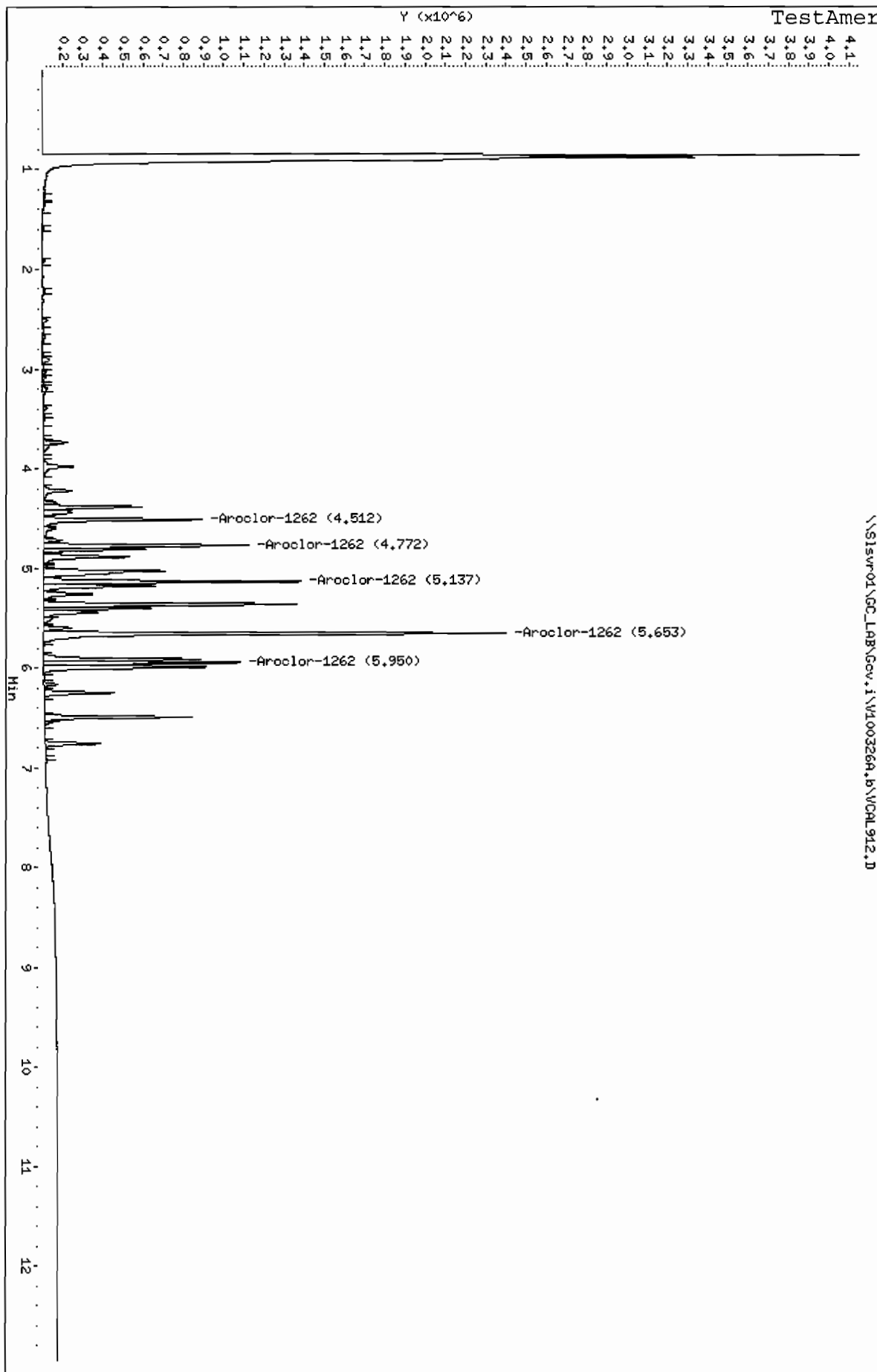
AMOUNTS							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	
35 Aroclor-1262			CAS #: 37324-23-5				
4.511	4.511	0.000	1362434 500.000	500.0	80.00- 120.00	100.00(M)	
4.771	4.771	0.000	1632975 500.000	500.0	95.89- 143.83	119.86	
5.136	5.136	0.000	2149929 500.000	500.0	126.24- 189.36	157.80	
5.653	5.653	0.000	3992653 500.000	500.0	234.44- 351.66	293.05	
5.949	5.949	0.000	1592381 500.000	500.0	93.50- 140.25	116.88	
Average of Peak Amounts =			500.000				

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100326A.b\GCAL912.D  
 Date: 26-MAR-2010 13:50  
 Client ID:  
 Sample Info: 1262  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



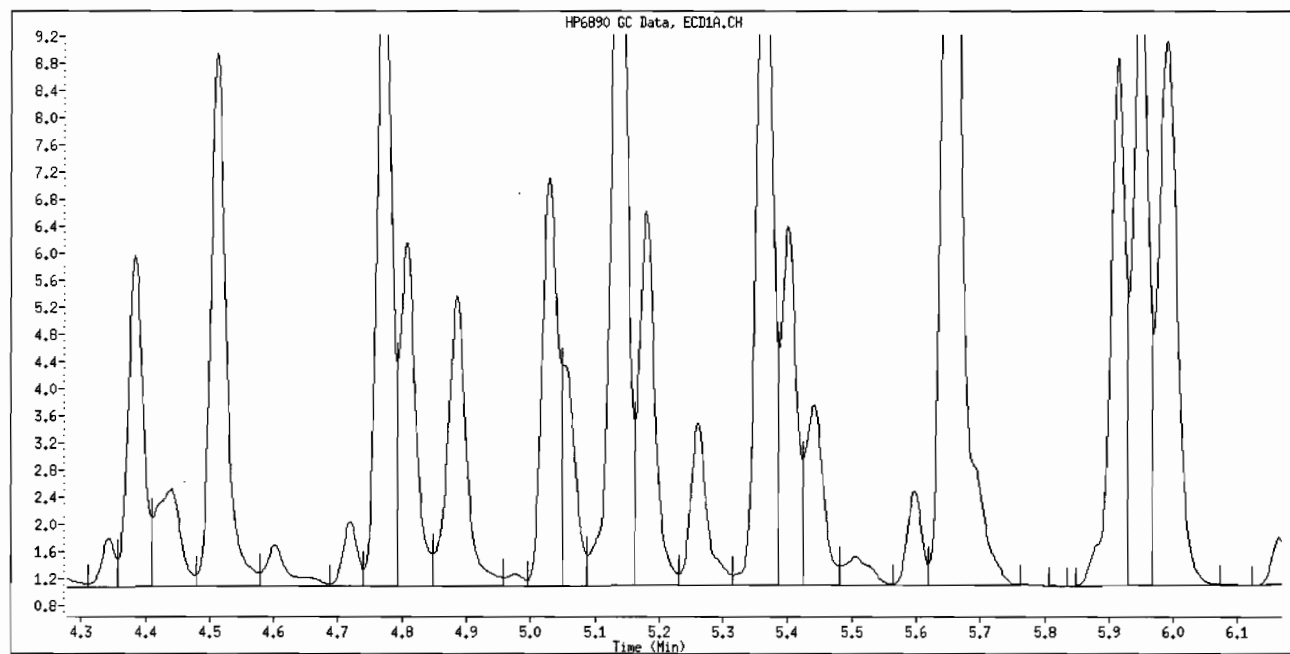
Inj. Date and Time: 26-MAR-2010 13:50

Instrument ID: Gcv.i

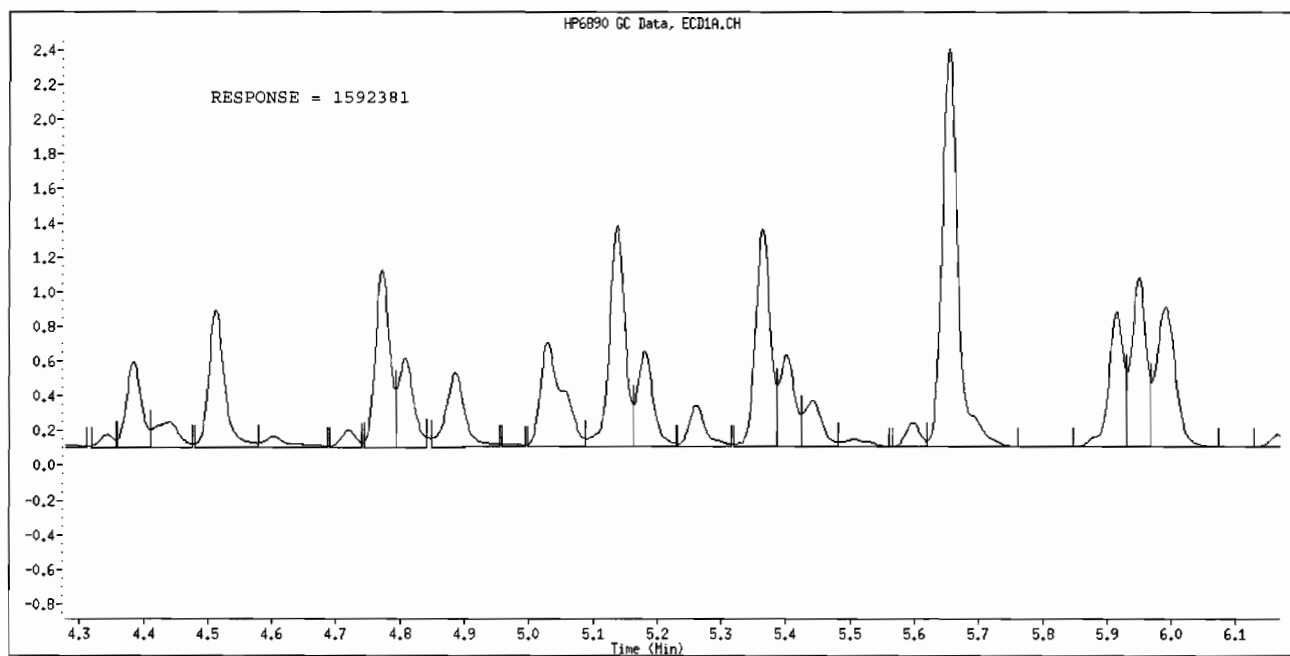
Client ID:

Compound Name: Aroclor-1262

CAS #: 37324-23-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\VCAL913.D  
 Lab Smp Id: 1268  
 Inj Date : 26-MAR-2010 14:09  
 Operator : DEK  
 Smp Info : 1268  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326A.b\8082A.m  
 Meth Date : 26-Mar-2010 15:13 target  
 Cal Date : 26-MAR-2010 14:09  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL913.D  
 Calibration Sample, Level: 4  
 Compound Sublist: Ar1268.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

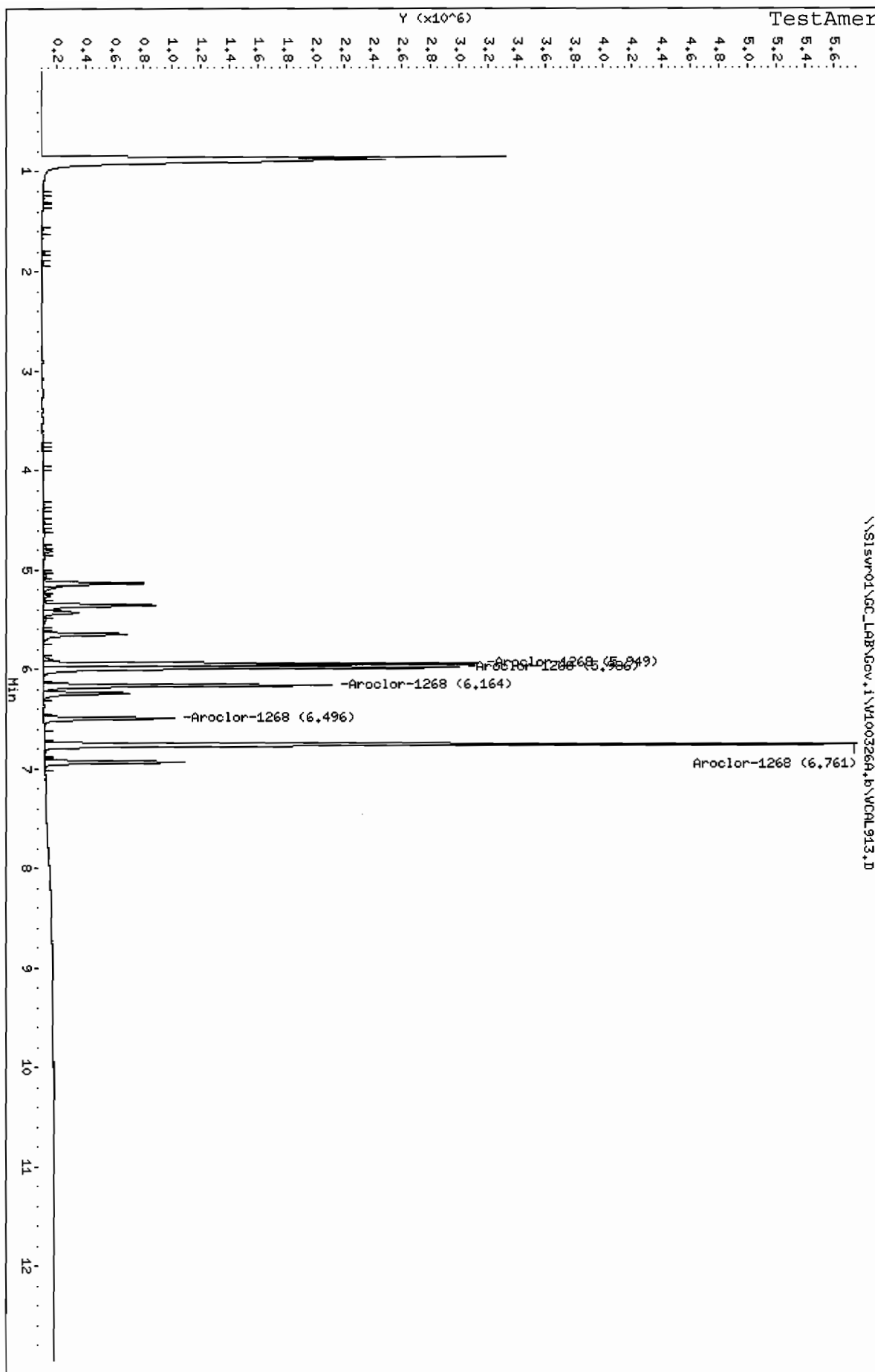
AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	
36 Aroclor-1268			CAS #: 11100-14-4				
5.948	5.948	0.000	4697802 500.000	500.0	80.00- 120.00	100.00 (M)	
5.985	5.985	0.000	5201707 500.000	500.0	88.58- 132.87	110.73	
6.163	6.163	0.000	3260236 500.000	500.0	55.52- 83.28	69.40	
6.495	6.495	0.000	1496859 500.000	500.0	25.49- 38.24	31.86	
6.760	6.760	0.000	8948443 500.000	500.0	152.39- 228.58	190.48	
Average of Peak Amounts =			500.000				

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100326A.b\WCAL913.D  
 Date : 26-MAR-2010 14:09  
 Client ID:  
 Sample Info: 1268  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: VCAL913.D

TestAmerica St. Louis

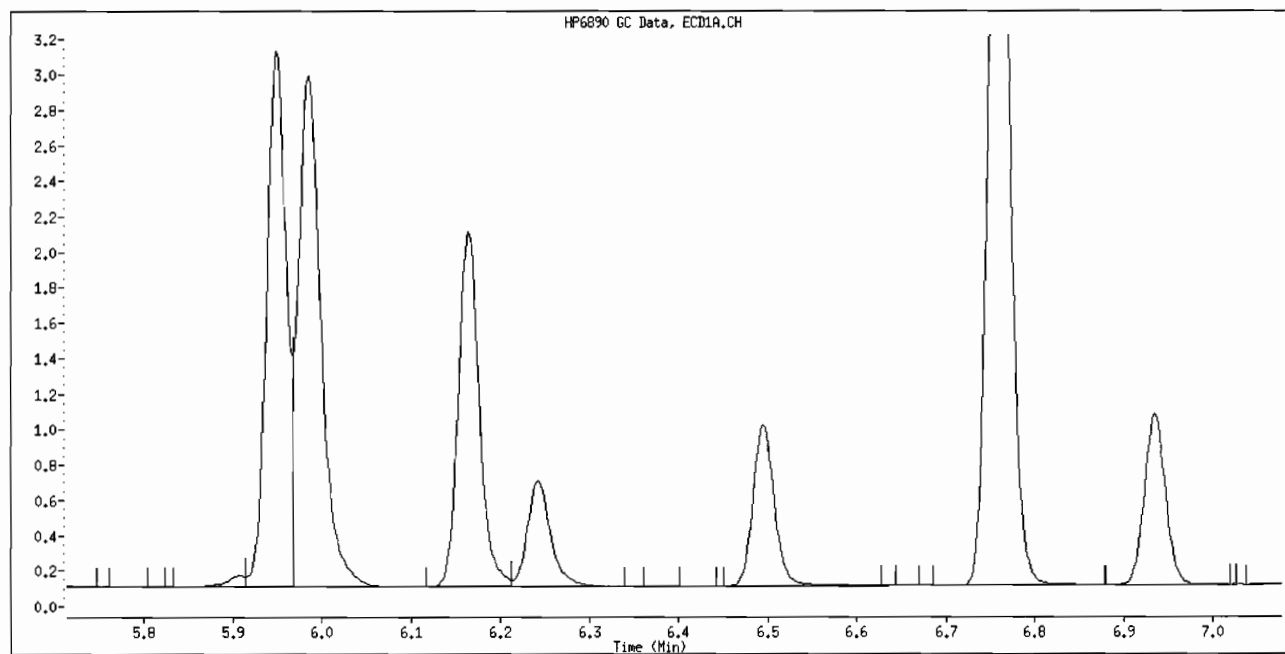
Inj. Date and Time: 26-MAR-2010 14:09

Instrument ID: Gcv.i

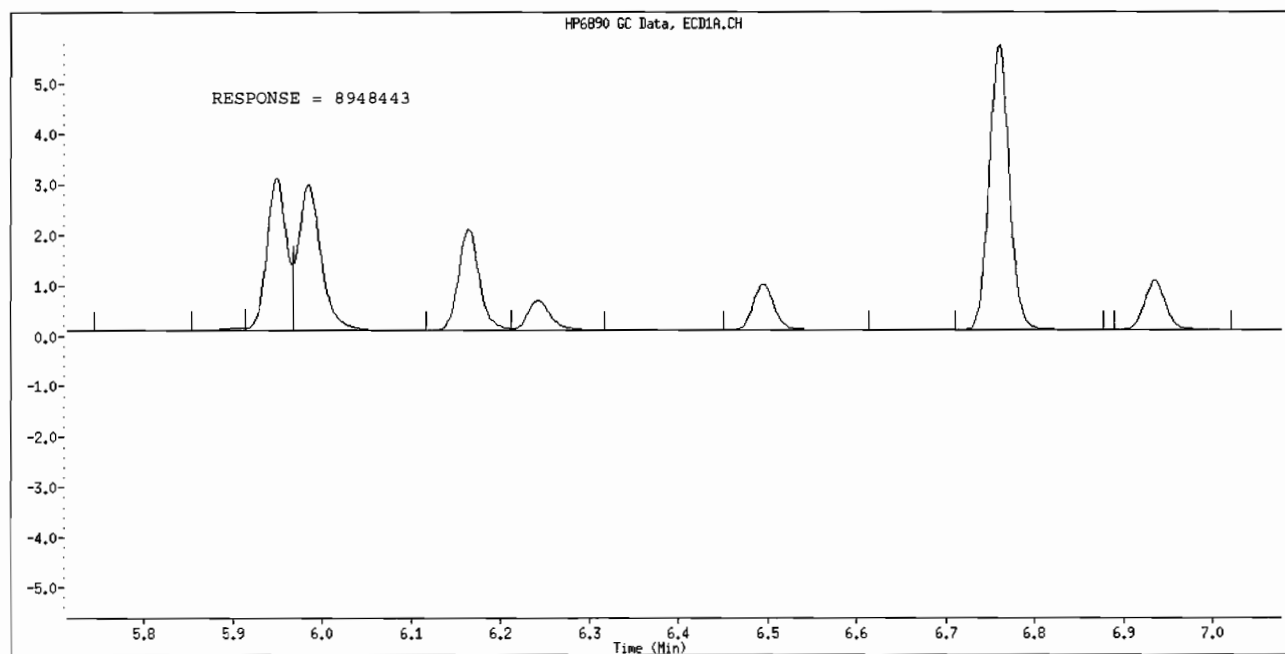
Client ID:

Compound Name: Aroclor-1268

CAS #: 11100-14-4



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Report Date : 29-Mar-2010 11:35

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TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Last Edit : 29-Mar-2010 10:52 target  
 Curve Type : Average

## Calibration File Names:

Level 1: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL899.D  
 Level 2: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL900.D  
 Level 3: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL901.D  
 Level 4: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL913.D  
 Level 5: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL903.D  
 Level 6: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL904.D  
 Level 7: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL905.D  
 Level 8: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL906.D

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
22 Aroclor-1016(1)	2596 1857	2260 1668	2231	2098	1848	1871	2054	14.638
(2)	5278 3869	4414 3307	4533	4277	3673	3742	4137	14.975
(3)	9177 7867	8243 7235	8488	8092	7702	8000	8101	7.079
(4)	4049 3133	3482 2889	3566	3309	3003	3187	3327	11.115
(5)	2953 2408	2661 2199	2705	2472	2324	2403	2516	9.640
23 Aroclor-1221(1)	++++ ++++	++++ ++++	++++	884	++++	++++	884	0.000 <-
(2)	++++ ++++	++++ ++++	++++	1166	++++	++++	1166	0.000 <-
(3)	++++ ++++	++++ ++++	++++	2610	++++	++++	2610	0.000 <-



Report Date : 29-Mar-2010 11:35

Page 2

## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\slsvr01\GC LAB\Gcv.i\V100326B.b\8082B.m  
 Last Edit : 29-Mar-2010 10:52 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
24 Aroclor-1232 (1)	+++++	+++++	+++++	2212	+++++	+++++	2212	0.000 <-
(2)	+++++	+++++	+++++	1927	+++++	+++++	1927	0.000 <-
(3)	+++++	+++++	+++++	3657	+++++	+++++	3657	0.000 <-
(4)	+++++	+++++	+++++	979	+++++	+++++	979	0.000 <-
(5)	+++++	+++++	+++++	1089	+++++	+++++	1089	0.000 <-
25 Aroclor-1242 (1)	+++++	+++++	+++++	3284	+++++	+++++	3284	0.000 <-
(2)	+++++	+++++	+++++	1390	+++++	+++++	1390	0.000 <-
(3)	+++++	+++++	+++++	6582	+++++	+++++	6582	0.000 <-
(4)	+++++	+++++	+++++	2295	+++++	+++++	2295	0.000 <-
(5)	+++++	+++++	+++++	2230	+++++	+++++	2230	0.000 <-
26 Aroclor-1248 (1)	+++++	+++++	+++++	2538	+++++	+++++	2538	0.000 <-

Report Date : 29-Mar-2010 11:35

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TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\slsvr01\GC LAB\Gcv.i\V100326B.b\8082B.m  
 Last Edit : 29-Mar-2010 10:52 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	2500.000 Level 7	4000.000 Level 8						
	-----	-----	-----	-----	-----	-----	-----	-----
(2)	+++++	+++++	+++++	3204	+++++	+++++		
	+++++	+++++					3204	0.000 <-
(3)	+++++	+++++	+++++	3476	+++++	+++++		
	+++++	+++++					3476	0.000 <-
(4)	+++++	+++++	+++++	3885	+++++	+++++		
	+++++	+++++					3885	0.000 <-
(5)	+++++	+++++	+++++	3569	+++++	+++++		
	+++++	+++++					3569	0.000 <-
27 Aroclor-1254(1)	+++++	+++++	+++++	3754	+++++	+++++		
	+++++	+++++					3754	0.000 <-
(2)	+++++	+++++	+++++	4033	+++++	+++++		
	+++++	+++++					4033	0.000 <-
(3)	+++++	+++++	+++++	6194	+++++	+++++		
	+++++	+++++					6194	0.000 <-
(4)	+++++	+++++	+++++	4445	+++++	+++++		
	+++++	+++++					4445	0.000 <-
(5)	+++++	+++++	+++++	5335	+++++	+++++		
	+++++	+++++					5335	0.000 <-
28 Aroclor-1260(1)	5541	4905	4991	4636	4371	4512		
	4543	4162					4708	9.134
(2)	5902	5225	5454	5002	4727	5006		
	4963	4600					5110	8.133

Report Date : 29-Mar-2010 11:35

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Slsvr01\GC LAB\Gcv.i\V100326B.b\8082B.m  
 Last Edit : 29-Mar-2010 10:52 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
(3)	7280 6380	6395 5935	6836	6413	5948	6366	6444	6.868
(4)	4714 4117	4271 3860	4495	4087	3881	4119	4193	6.978
(5)	8181 8063	7652 7530	8445	7789	7447	8069	7897	4.405
35 Aroclor-1262 (1)	++++ ++++	++++ ++++	++++	3571	++++	++++	3571	0.000 <-
(2)	++++ ++++	++++ ++++	++++	3621	++++	++++	3621	0.000 <-
(3)	++++ ++++	++++ ++++	++++	5100	++++	++++	5100	0.000 <-
(4)	++++ ++++	++++ ++++	++++	8180	++++	++++	8180	0.000 <-
(5)	++++ ++++	++++ ++++	++++	6046	++++	++++	6046	0.000 <-
36 Aroclor-1268 (1)	++++ ++++	++++ ++++	++++	10790	++++	++++	10790	0.000 <-
(2)	++++ ++++	++++ ++++	++++	10851	++++	++++	10851	0.000 <-
(3)	++++ ++++	++++ ++++	++++	7238	++++	++++	7238	0.000 <-

Report Date : 29-Mar-2010 11:35

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## TestAmerica St. Louis

## INITIAL CALIBRATION DATA

Start Cal Date : 26-MAR-2010 09:49  
 End Cal Date : 26-MAR-2010 14:09  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\slsvr01\GC LAB\Gcv.i\V100326B.b\8082B.m  
 Last Edit : 29-Mar-2010 10:52 target  
 Curve Type : Average

Compound	50.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	1500.000 Level 6	RRF	% RSD
	2500.000 Level 7	4000.000 Level 8						
(4)	+++++	+++++	+++++	3200	+++++	+++++	3200	0.000 <-
(5)	+++++	+++++	+++++	18355	+++++	+++++	18355	0.000 <-
M 37 PCB (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
\$ 32 Decachlorobiphenyl	53551 41279	52733 48550	44758	47276	46276	50673	48137	8.590

Report Date : 29-Mar-2010 11:35

Page 1

TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\S1svr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Quant Method : ESTD Target Version : 4.14  
 Last Update : 29-Mar-2010 10:52 Number of Cpnds : 11  
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

```

-----
Initial:Start Threshold      500.000000
Initial:End Threshold        30.000000
Initial:Area Threshold       100.000000
Initial:P-P Resolution       2.000000
Initial:Bunch Factor         0.000000
Initial:Negative Peaks       OFF
Initial:Tension              0.200000
  0.000:Integrator OFF      n/a
  1.800:Integrator ON       n/a
  9.000:Integrator OFF      n/a
  
```

Compound	RT	RT Window	RF
22 Aroclor-1016	2.805	2.715-2.895	2.05e+003
	3.190	3.100-3.280	4.14e+003
	3.630	3.540-3.720	8.10e+003
	3.760	3.670-3.850	3.33e+003
	4.207	4.117-4.297	2.52e+003
23 Aroclor-1221	1.954	1.864-2.044	8.84e+002
	2.616	2.526-2.706	1.17e+003
	2.806	2.716-2.896	2.61e+003
24 Aroclor-1232	2.806	2.716-2.896	2.21e+003
	3.191	3.101-3.281	1.93e+003
	3.631	3.541-3.721	3.66e+003
	4.571	4.481-4.661	9.79e+002
25 Aroclor-1242	4.831	4.741-4.921	1.09e+003
	3.192	3.102-3.282	3.28e+003
	3.427	3.337-3.517	1.39e+003
	3.632	3.542-3.722	6.58e+003
	4.615	4.525-4.705	2.30e+003
26 Aroclor-1248	4.832	4.742-4.922	2.23e+003
	3.949	3.859-4.039	2.54e+003
	4.208	4.118-4.298	3.20e+003
	4.326	4.236-4.416	3.48e+003
	4.613	4.523-4.703	3.89e+003
27 Aroclor-1254	4.831	4.741-4.921	3.57e+003
	4.611	4.521-4.701	3.75e+003
	4.791	4.701-4.881	4.03e+003
	5.229	5.139-5.319	6.19e+003
	5.773	5.683-5.863	4.44e+003
	5.951	5.861-6.041	5.33e+003

Report Date : 29-Mar-2010 11:35

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TestAmerica St. Louis

## COMPOUND LISTING

Method file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m

Compound	RT	RT Window	RF
28 Aroclor-1260	5.412	5.322-5.502	4.71e+003
	5.609	5.519-5.699	5.11e+003
	5.947	5.857-6.037	6.44e+003
	6.312	6.222-6.402	4.19e+003
	6.547	6.457-6.637	7.90e+003
35 Aroclor-1262	5.413	5.323-5.503	3.57e+003
	5.610	5.520-5.700	3.62e+003
	6.035	5.945-6.125	5.10e+003
	6.548	6.458-6.638	8.18e+003
	6.890	6.800-6.980	6.05e+003
36 Aroclor-1268	6.886	6.796-6.976	1.08e+004
	6.931	6.841-7.021	1.09e+004
	7.171	7.081-7.261	7.24e+003
	7.434	7.344-7.524	3.20e+003
	7.742	7.652-7.832	1.84e+004
M 37 PCB (Total)	1.000	0.920-1.080	
\$ 32 Decachlorobiphenyl	7.987	7.897-8.077	4.81e+004

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL899.D  
 Report Date: 26-Mar-2010 14:52

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL899.D  
 Lab Smp Id: ICAL-1  
 Inj Date : 26-MAR-2010 09:49  
 Operator : DEK  
 Smp Info : ICAL-1  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Calibration Sample, Level: 1  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.802	2.805	-0.003	129791 50.0000	63.20	80.00- 120.00	100.00 (M)
3.188	3.190	-0.002	263896 50.0000	63.79	39.75- 357.72	203.32
3.628	3.630	-0.002	458856 50.0000	56.64	83.34- 750.08	353.53
3.757	3.760	-0.003	202469 50.0000	60.85	32.50- 292.46	156.00
4.205	4.206	-0.001	147657 50.0000	58.70	25.14- 226.28	113.77
Average of Peak Amounts =			60.6360			

28 Aroclor-1260			CAS #: 11096-82-5			
5.412	5.411	0.001	277039 50.0000	58.85	80.00- 120.00	100.00 (M)
5.608	5.608	0.000	295090 50.0000	57.75	21.63- 194.66	106.52
5.945	5.946	-0.001	363993 50.0000	56.48	27.21- 244.90	131.39
6.310	6.311	-0.001	235682 50.0000	56.21	17.76- 159.80	85.07
6.545	6.546	-0.001	409074 50.0000	51.80	34.07- 306.66	147.66
Average of Peak Amounts =			56.2180			

\$ 32 Decachlorobiphenyl			CAS #:			
7.985	7.986	-0.001	133877 2.50000	2.781		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL899.D  
Report Date: 26-Mar-2010 14:52

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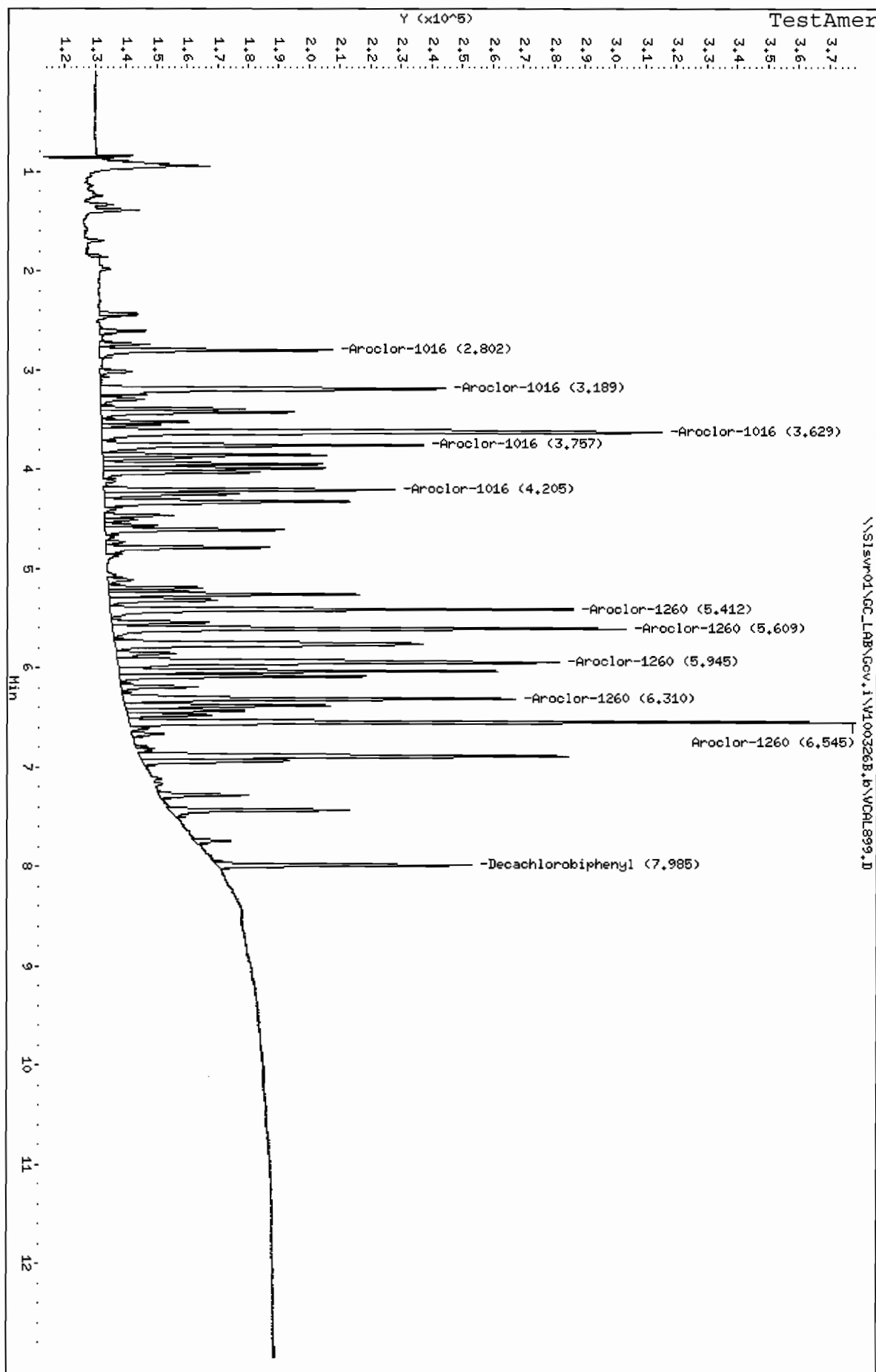
#### QC Flag Legend

M - Compound response manually integrated.



Data File: \\SISVR01\GC\_LAB\Gov.i\1100326B.b\WCAL899.D  
 Date: 26-Mar-2010 09:49  
 Client ID:  
 Sample Info: ICAL-1  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



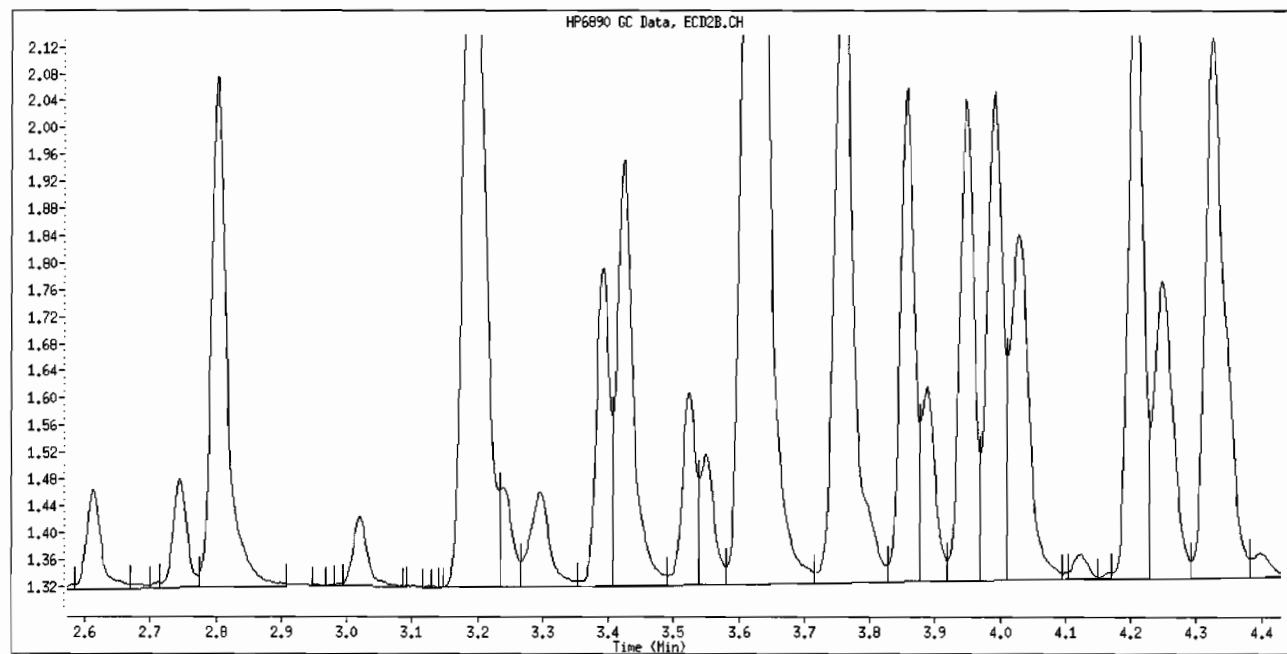
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

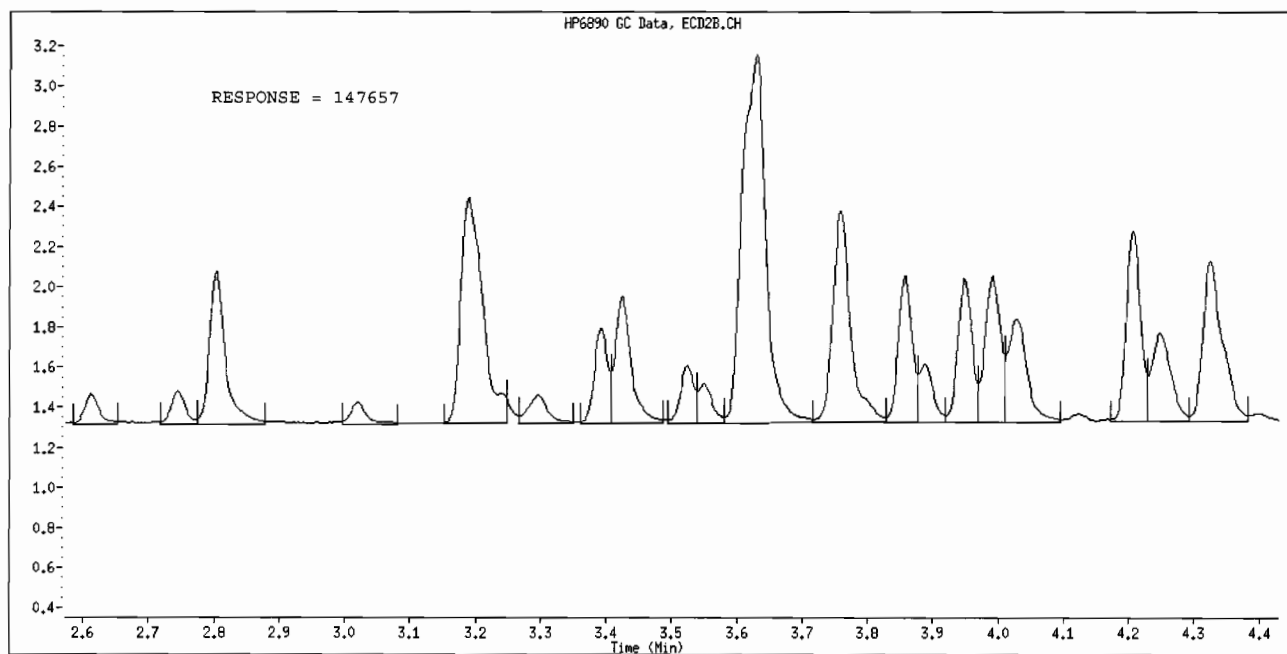
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL899.D

TestAmerica St. Louis

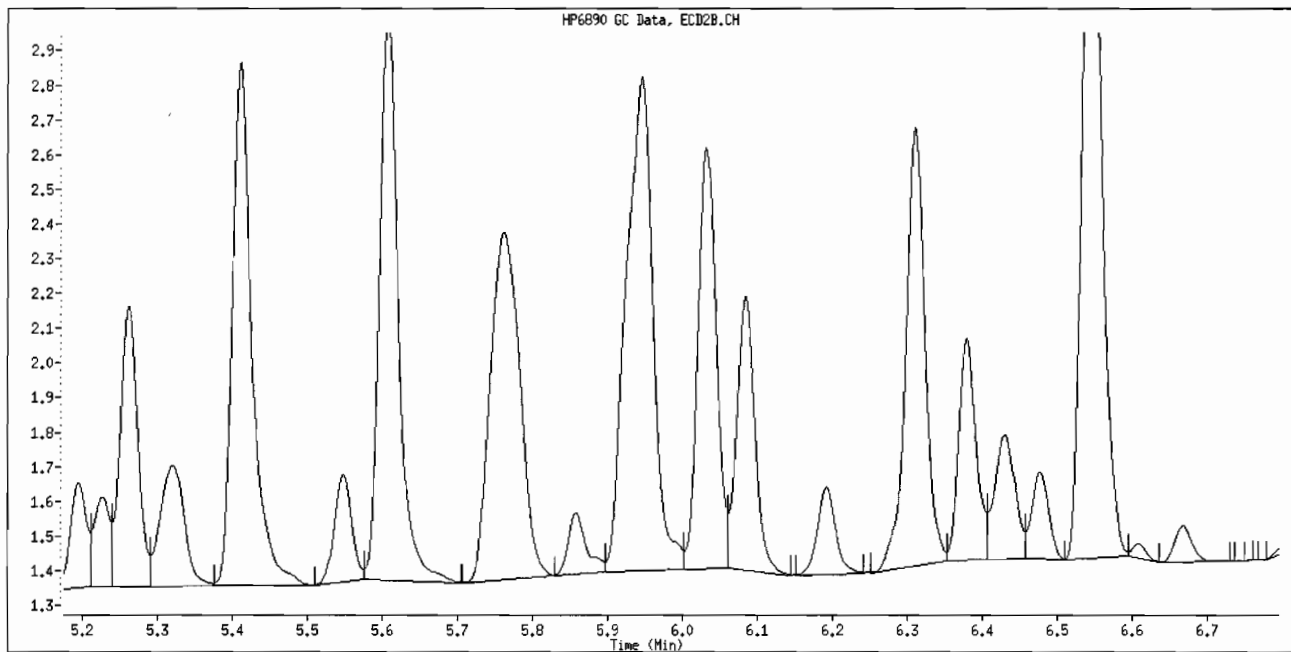
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

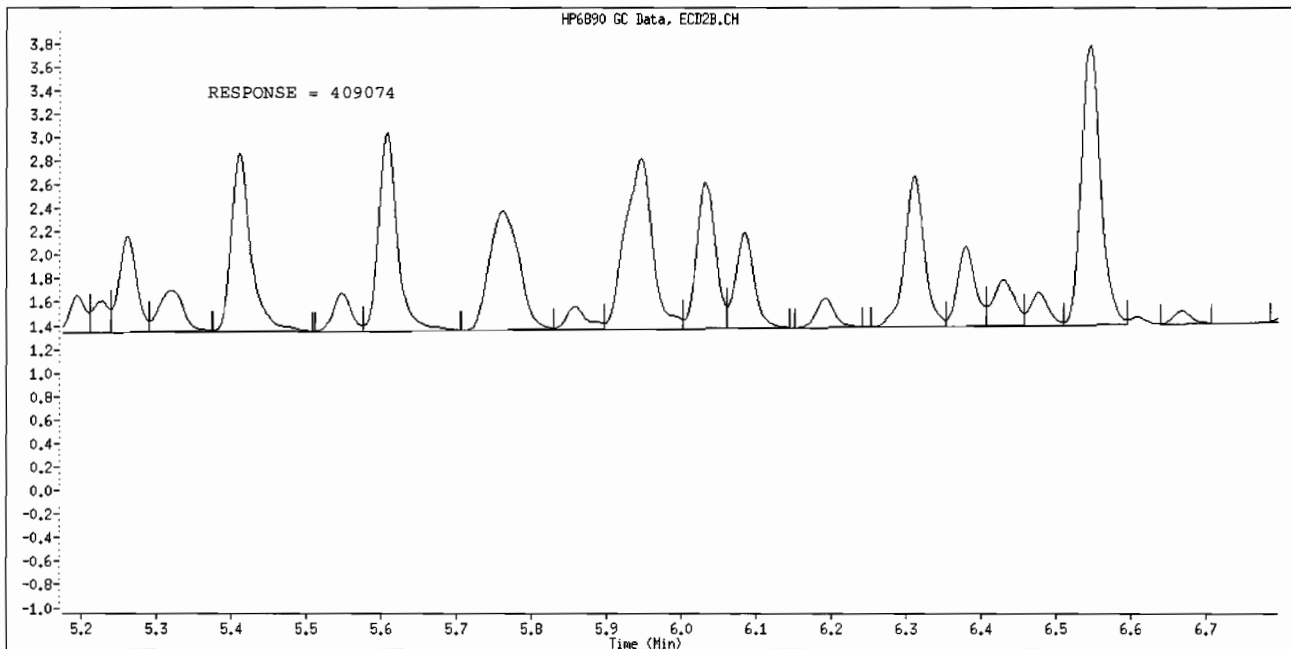
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

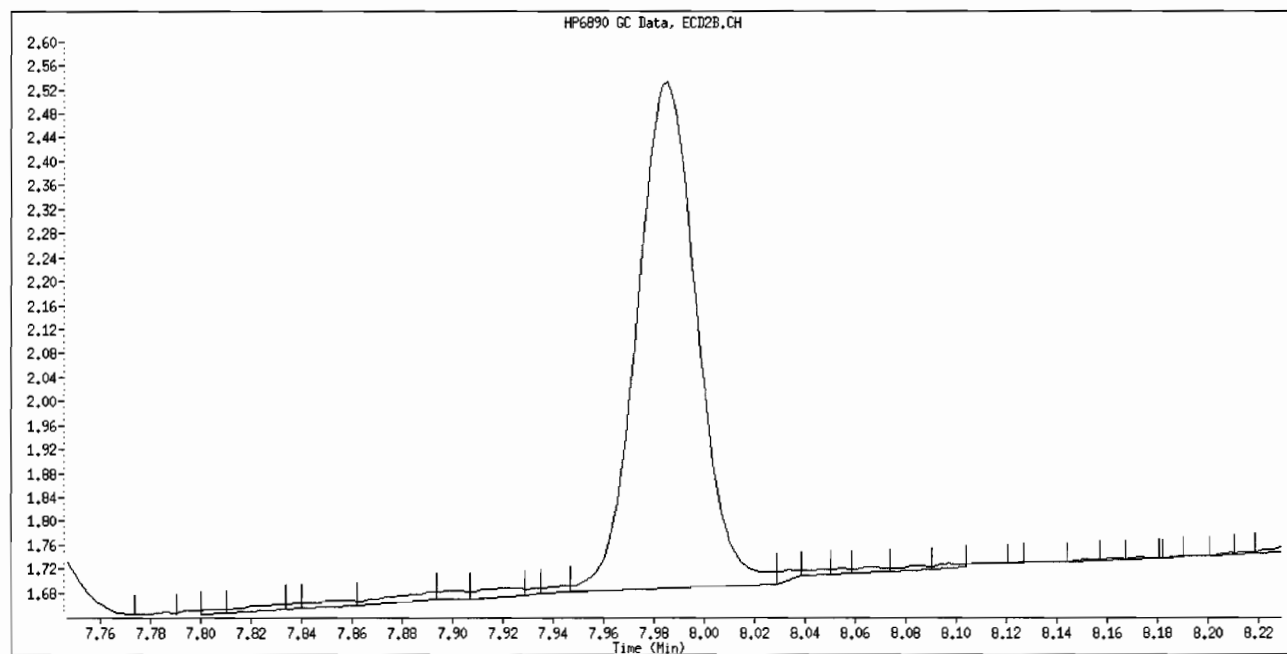
Inj. Date and Time: 26-MAR-2010 09:49

Instrument ID: Gcv.i

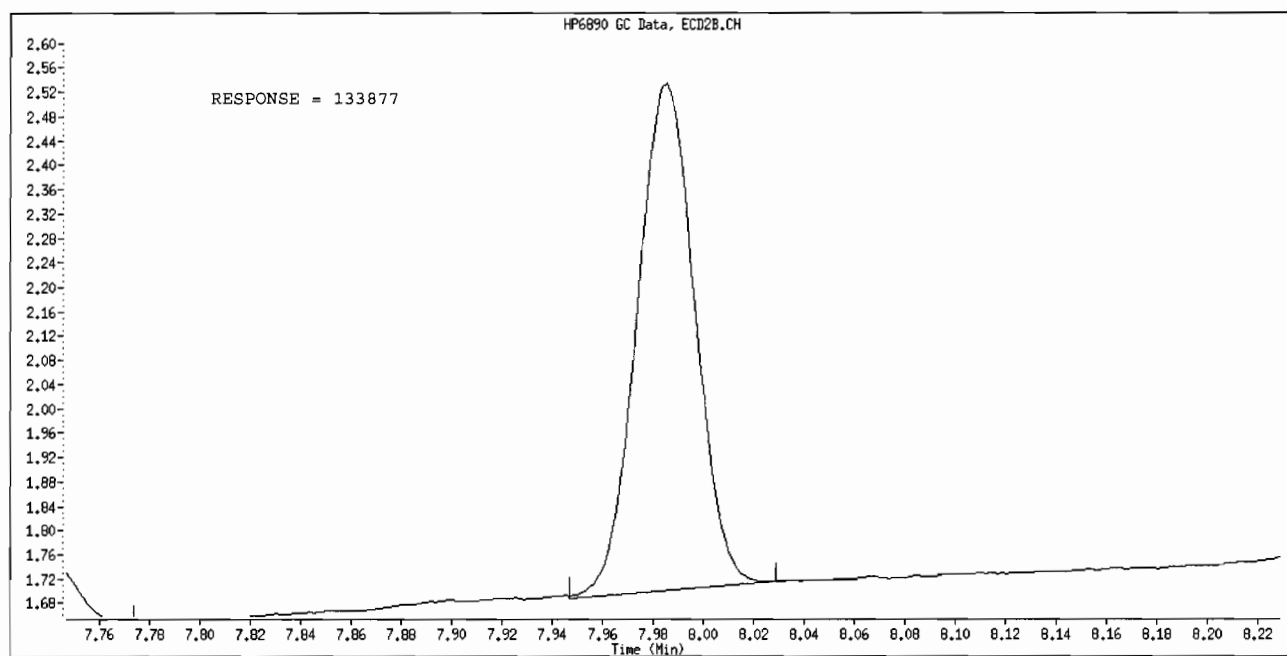
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL900.D  
 Report Date: 26-Mar-2010 14:52

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL900.D  
 Lab Smp Id: ICAL-2  
 Inj Date : 26-MAR-2010 10:07  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-2  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.804	2.805	-0.001	225958 100.000	110.0	80.00- 120.00	100.00 (M)
3.189	3.190	-0.001	441353 100.000	106.7	39.75- 357.72	195.33
3.629	3.630	-0.001	824317 100.000	101.8	83.34- 750.08	364.81
3.757	3.760	-0.003	348208 100.000	104.6	32.50- 292.46	154.10
4.205	4.206	-0.001	266137 100.000	105.8	25.14- 226.28	117.78
Average of Peak Amounts =			105.780			

28 Aroclor-1260			CAS #: 11096-82-5			
5.410	5.411	-0.001	490469 100.000	104.2	80.00- 120.00	100.00 (M)
5.607	5.608	-0.001	522464 100.000	102.2	21.63- 194.66	106.52
5.945	5.946	-0.001	639516 100.000	99.24	27.21- 244.90	130.39
6.310	6.311	-0.001	427124 100.000	101.9	17.76- 159.80	87.08
6.545	6.546	-0.001	765232 100.000	96.90	34.07- 306.66	156.02
Average of Peak Amounts =			100.888			

\$ 32 Decachlorobiphenyl			CAS #:			
7.985	7.986	-0.001	263666 5.00000	5.477		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL900.D  
Report Date: 26-Mar-2010 14:52

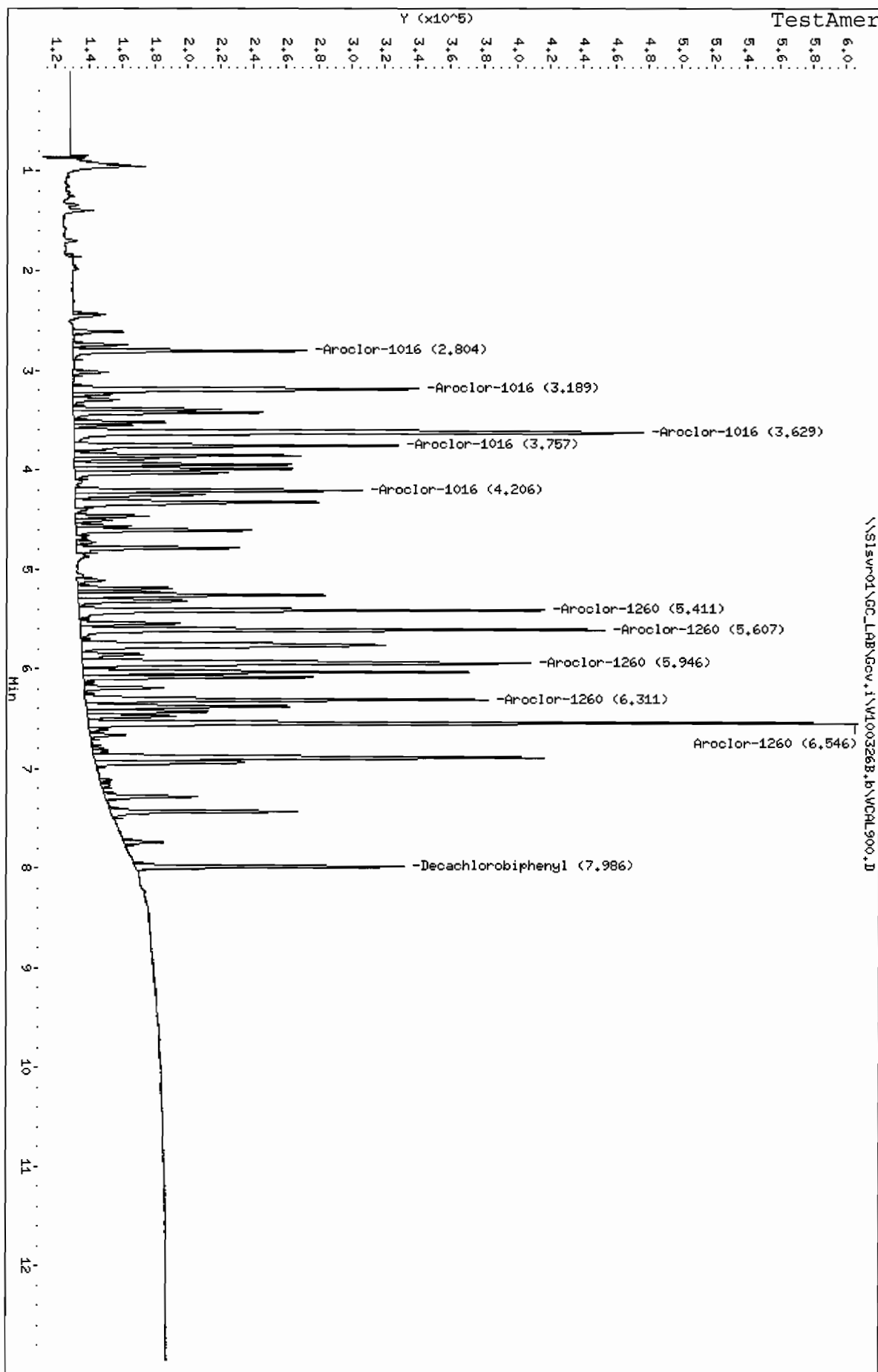
TestAmerica St. Louis  
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#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISVR01\GC\_LAB\Gov.i\W100326B.b\WCAL900.D  
 Date: 26-MAR-2010 10:07  
 Client ID:  
 Sample Info: ICAL-2  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



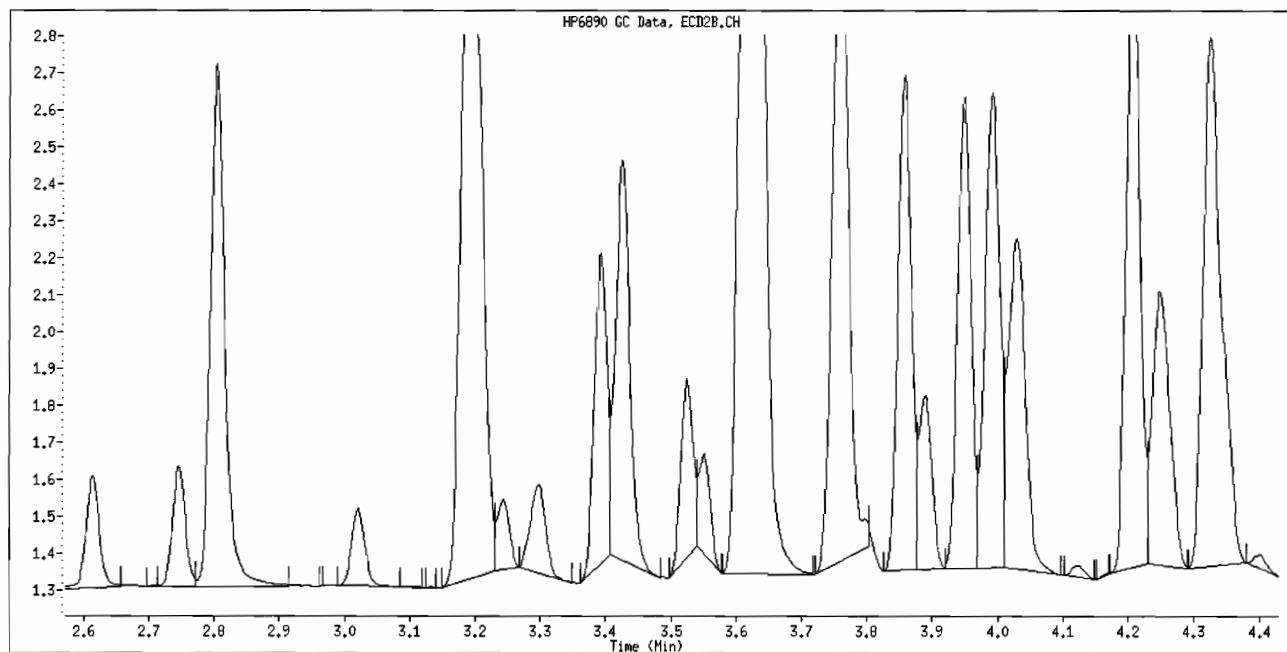
Inj. Date and Time: 26-MAR-2010 10:07

Instrument ID: Gcv.i

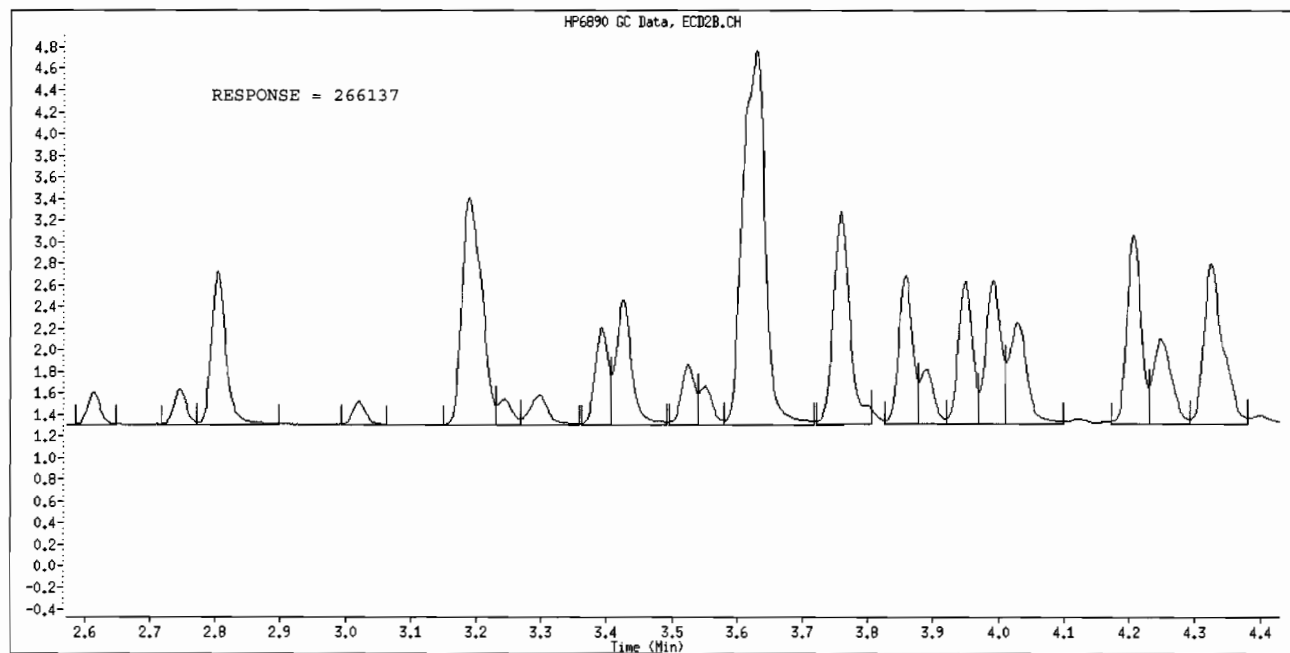
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: VCAL900.D

TestAmerica St. Louis

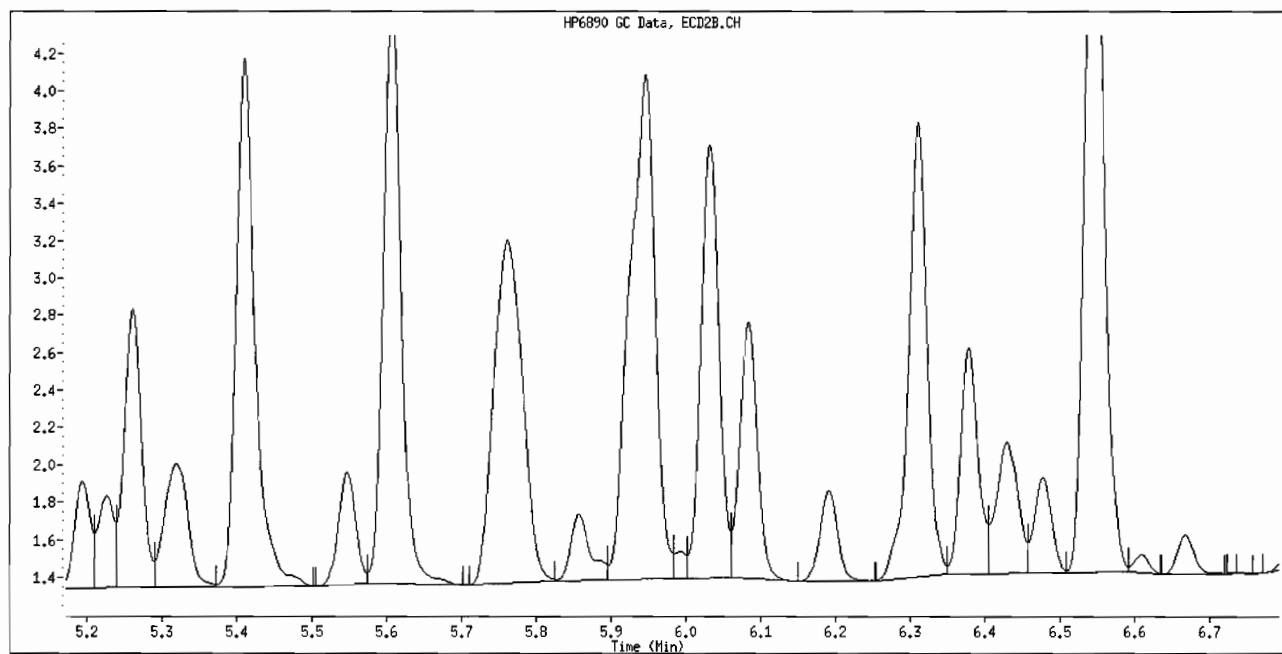
Inj. Date and Time: 26-MAR-2010 10:07

Instrument ID: Gcv.i

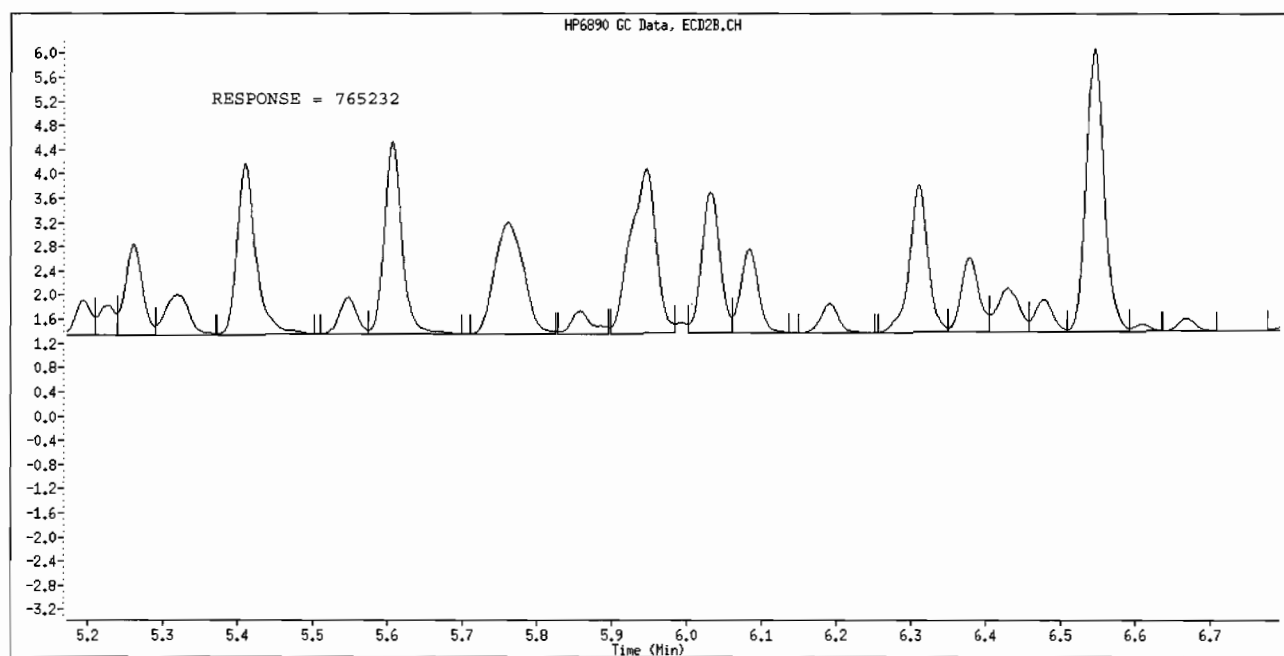
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL900.D

TestAmerica St. Louis

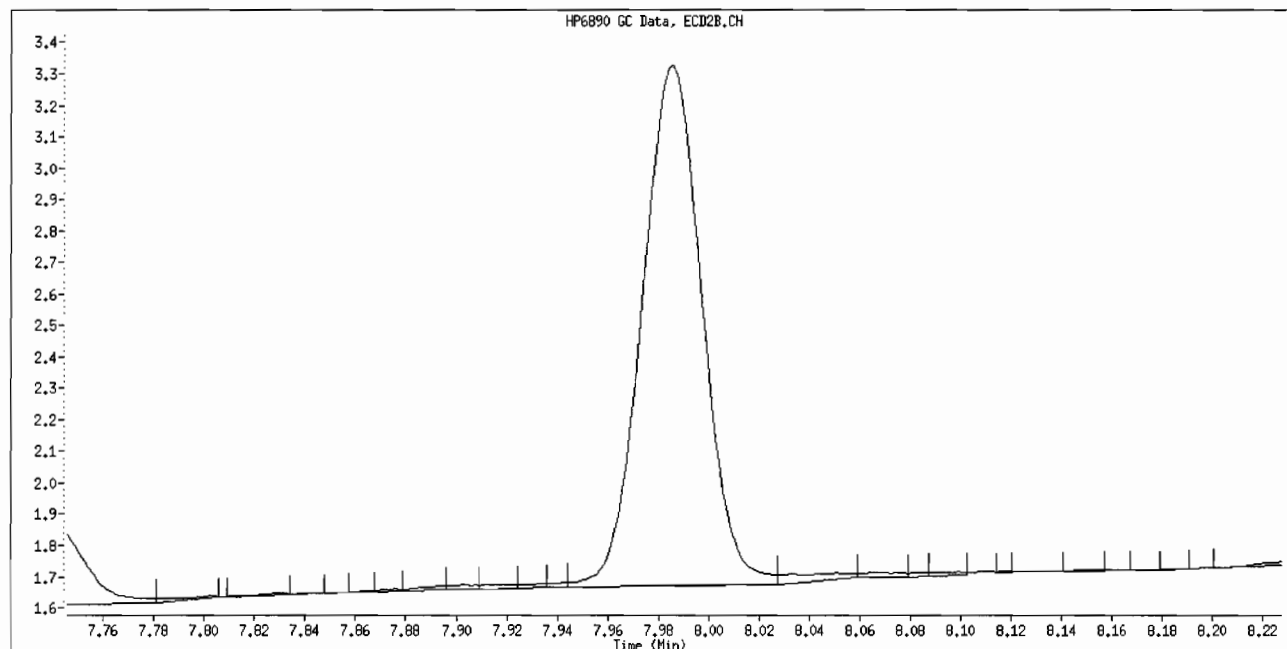
Inj. Date and Time: 26-MAR-2010 10:07

Instrument ID: Gcv.i

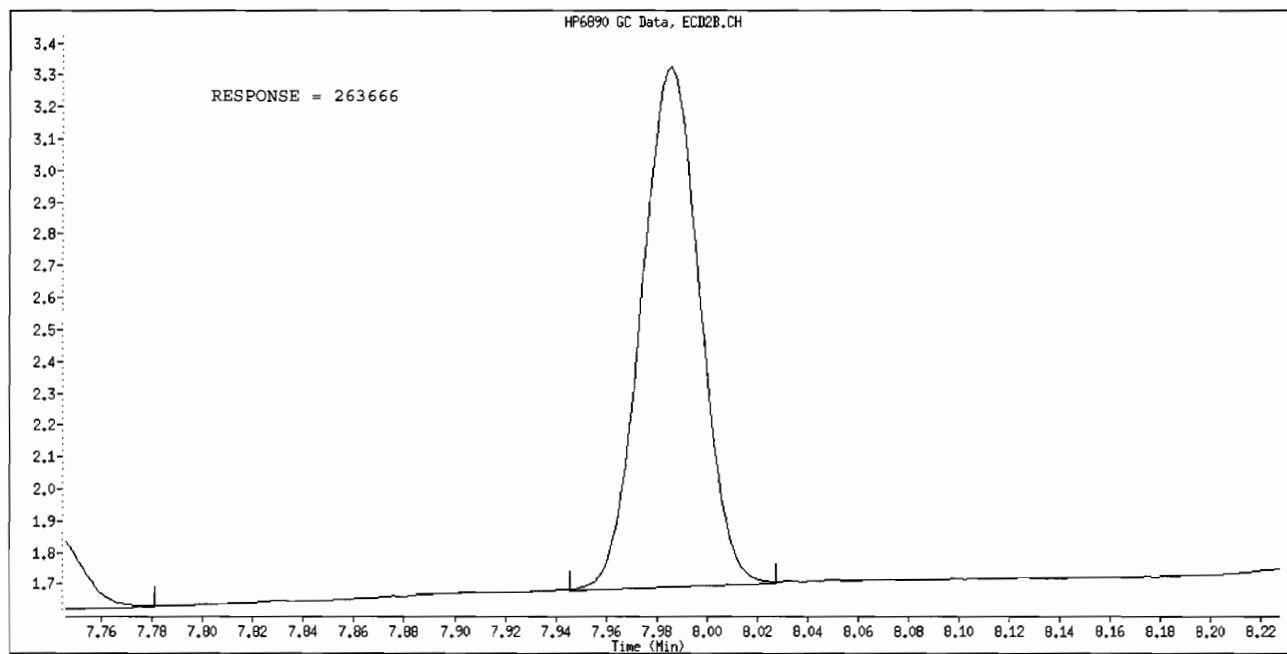
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL901.D  
 Report Date: 26-Mar-2010 14:52

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL901.D  
 Lab Smp Id: ICAL-3  
 Inj Date : 26-MAR-2010 10:26  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-3  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.803	2.805	-0.002	446180	200.000	217.3 80.00- 120.00 100.00 (M)
3.190	3.190	0.000	906611	200.000	219.2 39.75- 357.72 203.19	
3.630	3.630	0.000	1697649	200.000	209.6 83.34- 750.08 380.49	
3.760	3.760	0.000	713297	200.000	214.4 32.50- 292.46 159.87	
4.206	4.206	0.000	540996	200.000	215.0 25.14- 226.28 121.25	
Average of Peak Amounts =			215.100			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.413	5.411	0.002	998115	200.000	212.0 80.00- 120.00 100.00 (M)
5.610	5.608	0.002	1090759	200.000	213.5 21.63- 194.66 109.28	
5.946	5.946	0.000	1367210	200.000	212.2 27.21- 244.90 136.98	
6.311	6.311	0.000	899099	200.000	214.4 17.76- 159.80 90.08	
6.546	6.546	0.000	1688989	200.000	213.9 34.07- 306.66 169.22	
Average of Peak Amounts =			213.200			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
\$ 32	7.986	7.986	0.000	559475	12.5000	11.62 (M)

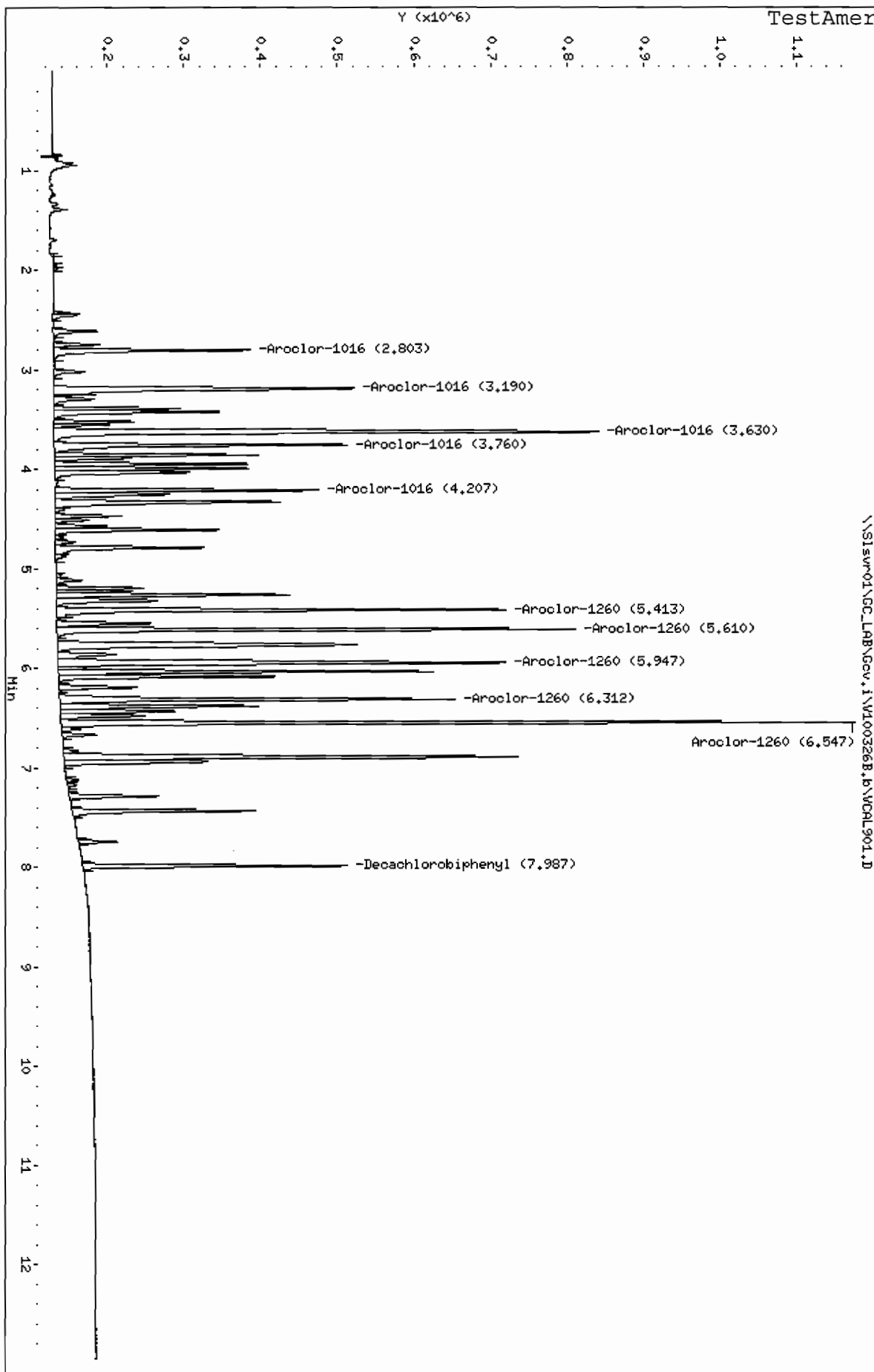
Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL901.D  
Report Date: 26-Mar-2010 14:52

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\141003268.b\WCAL301.D  
 Date: 26-Mar-2010 10:26  
 Client ID:  
 Sample Info: ICAL-3  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



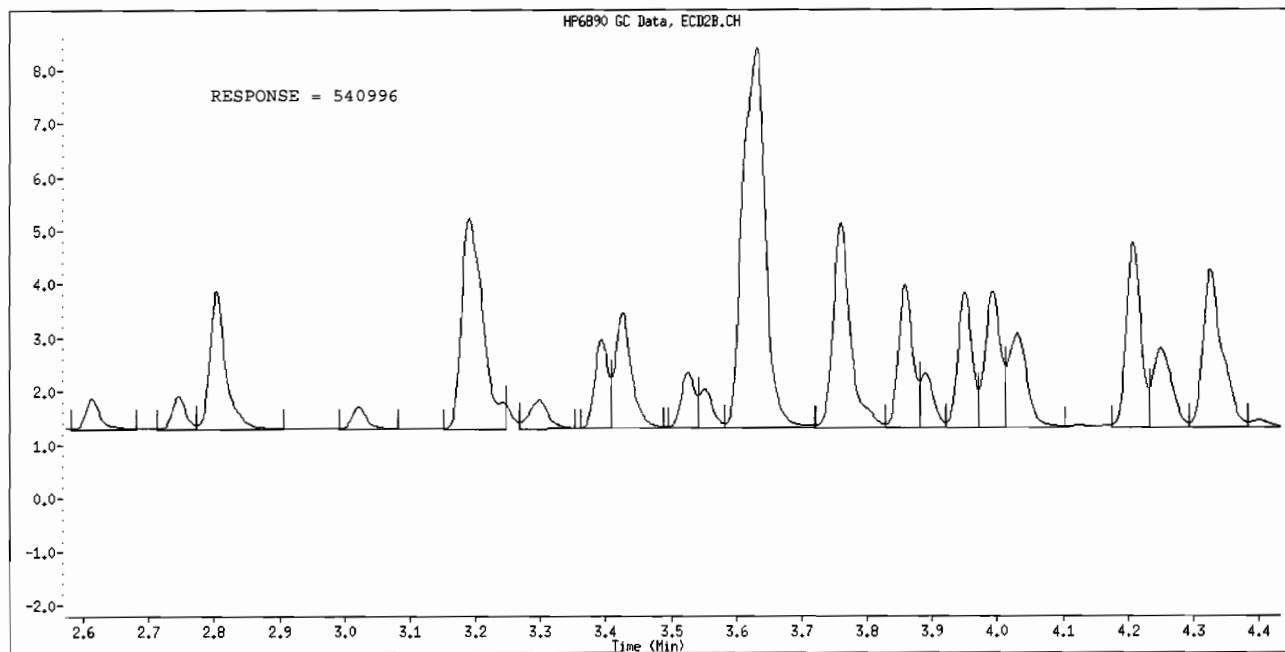
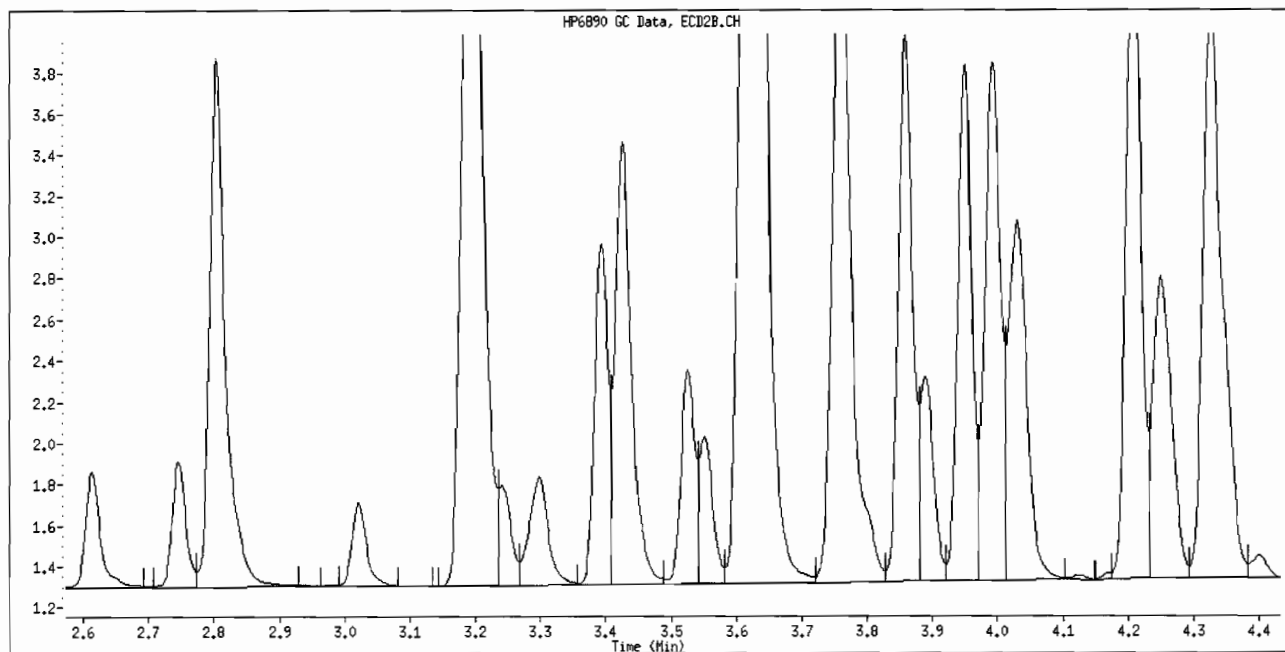
Inj. Date and Time: 26-MAR-2010 10:26

Instrument ID: Gcv.i

Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL901.D

TestAmerica St. Louis

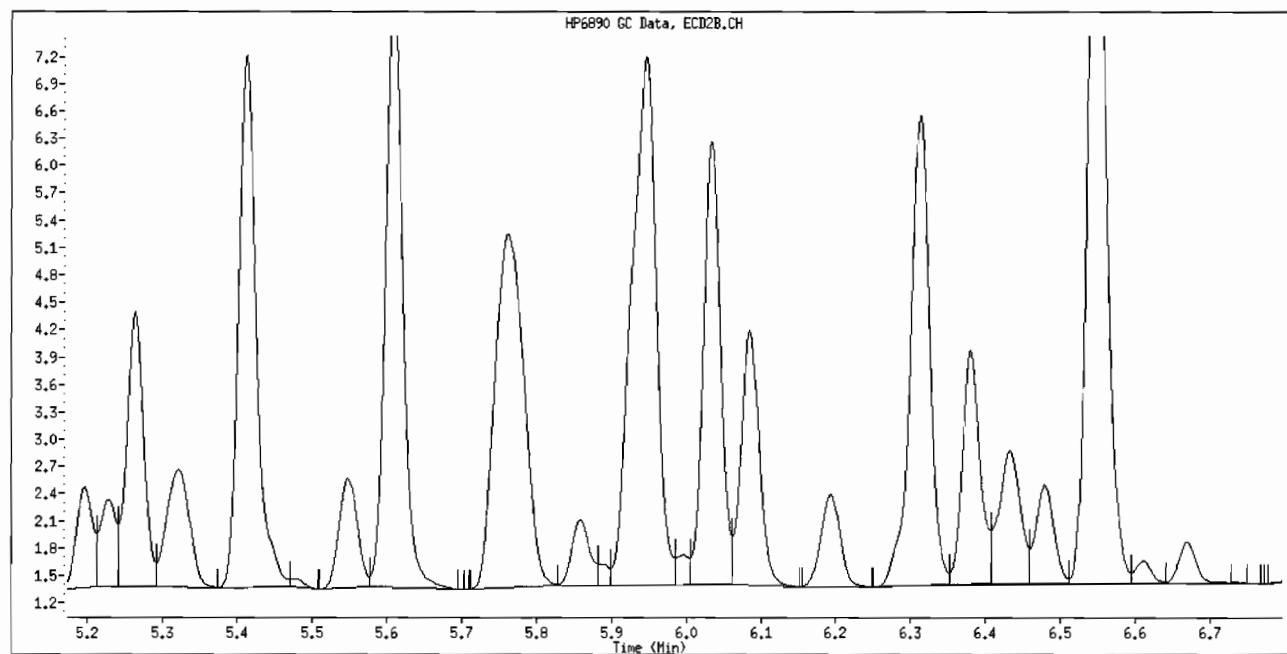
Inj. Date and Time: 26-MAR-2010 10:26

Instrument ID: Gcv.i

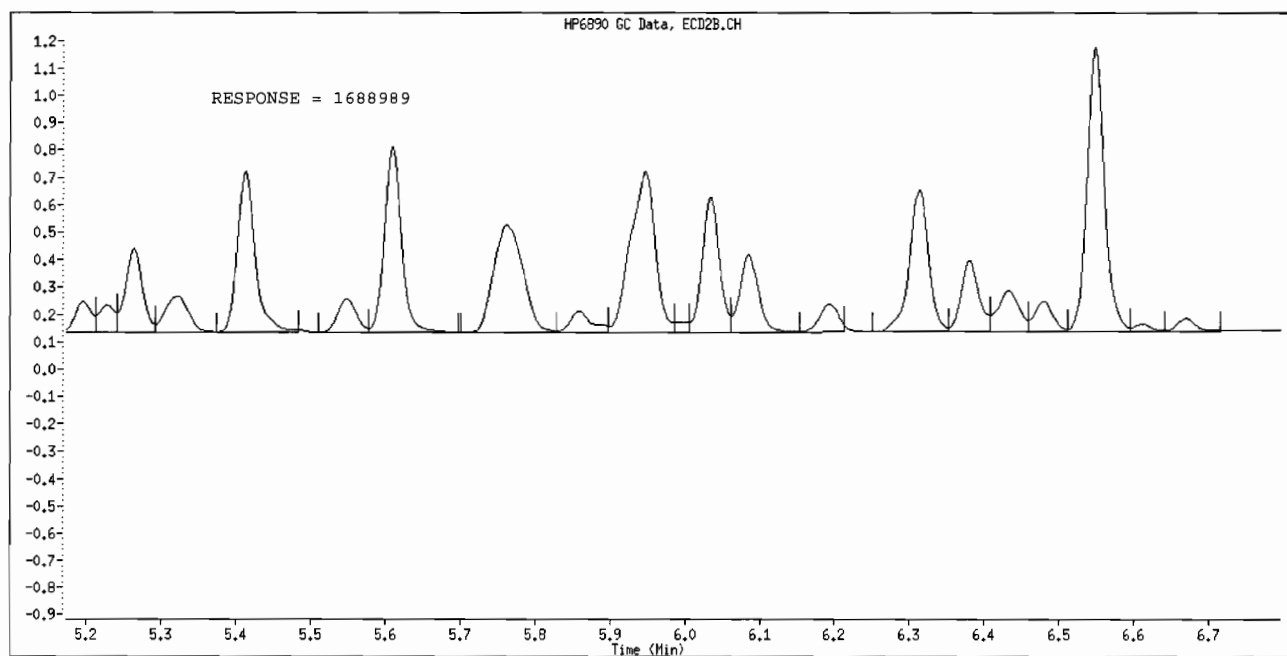
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL901.D

TestAmerica St. Louis

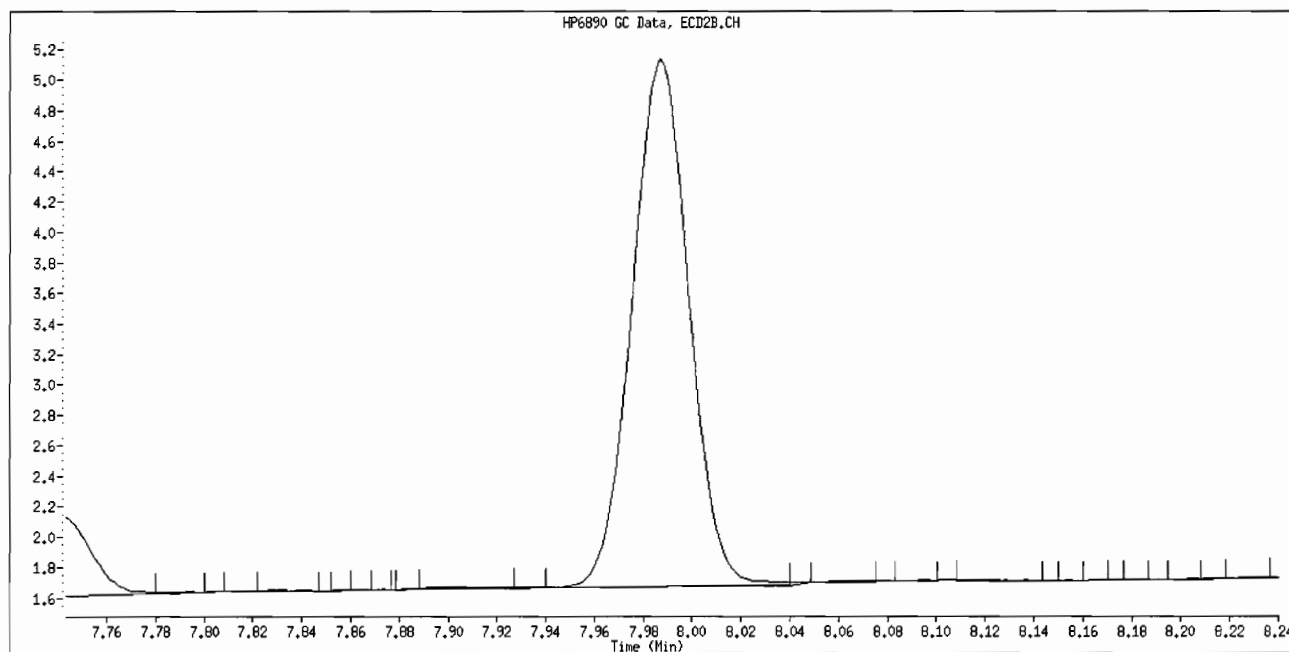
Inj. Date and Time: 26-MAR-2010 10:26

Instrument ID: Gcv.i

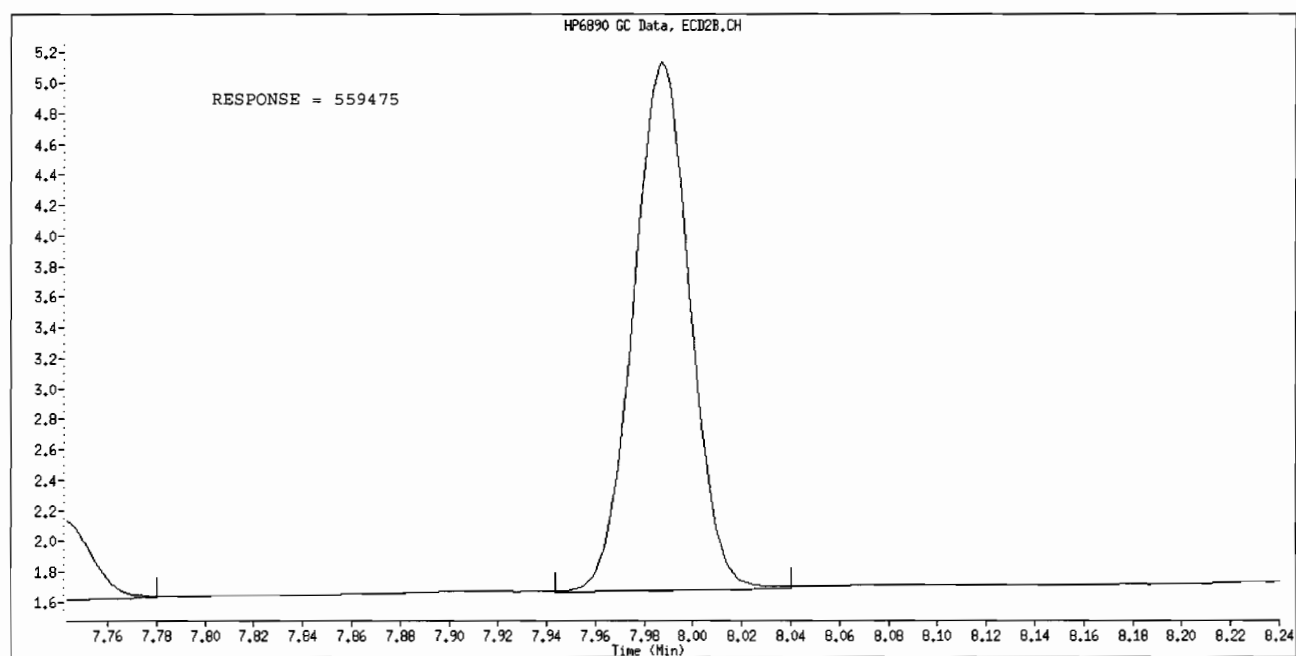
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL902.D  
 Report Date: 26-Mar-2010 14:52

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL902.D  
 Lab Smp Id: ICAL-4  
 Inj Date : 26-MAR-2010 10:44  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-4  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22 Aroclor-1016 CAS #: 12674-11-2							
2.803	2.805	-0.002	1049002 500.000	510.8	80.00-	120.00	100.00 (M)
3.190	3.190	0.000	2138704 500.000	517.0	39.75-	357.72	203.88
3.630	3.630	0.000	4046196 500.000	499.5	83.34-	750.08	385.72
3.758	3.760	-0.002	1654389 500.000	497.2	32.50-	292.46	157.71
4.207	4.206	0.001	1235798 500.000	491.2	25.14-	226.28	117.81
Average of Peak Amounts =				503.140			

28 Aroclor-1260 CAS #: 11096-82-5							
5.413	5.411	0.002	2318223 500.000	492.4	80.00-	120.00	100.00 (M)
5.608	5.608	0.000	2501134 500.000	489.5	21.63-	194.66	107.89
5.947	5.946	0.001	3206489 500.000	497.6	27.21-	244.90	138.32
6.312	6.311	0.001	2043449 500.000	487.3	17.76-	159.80	88.15
6.547	6.546	0.001	3894739 500.000	493.2	34.07-	306.66	168.01
Average of Peak Amounts =				492.000			

\$ 32 Decachlorobiphenyl CAS #:							
7.987	7.986	0.001	1181901 25.0000	24.55	(M)		

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL902.D  
Report Date: 26-Mar-2010 14:52

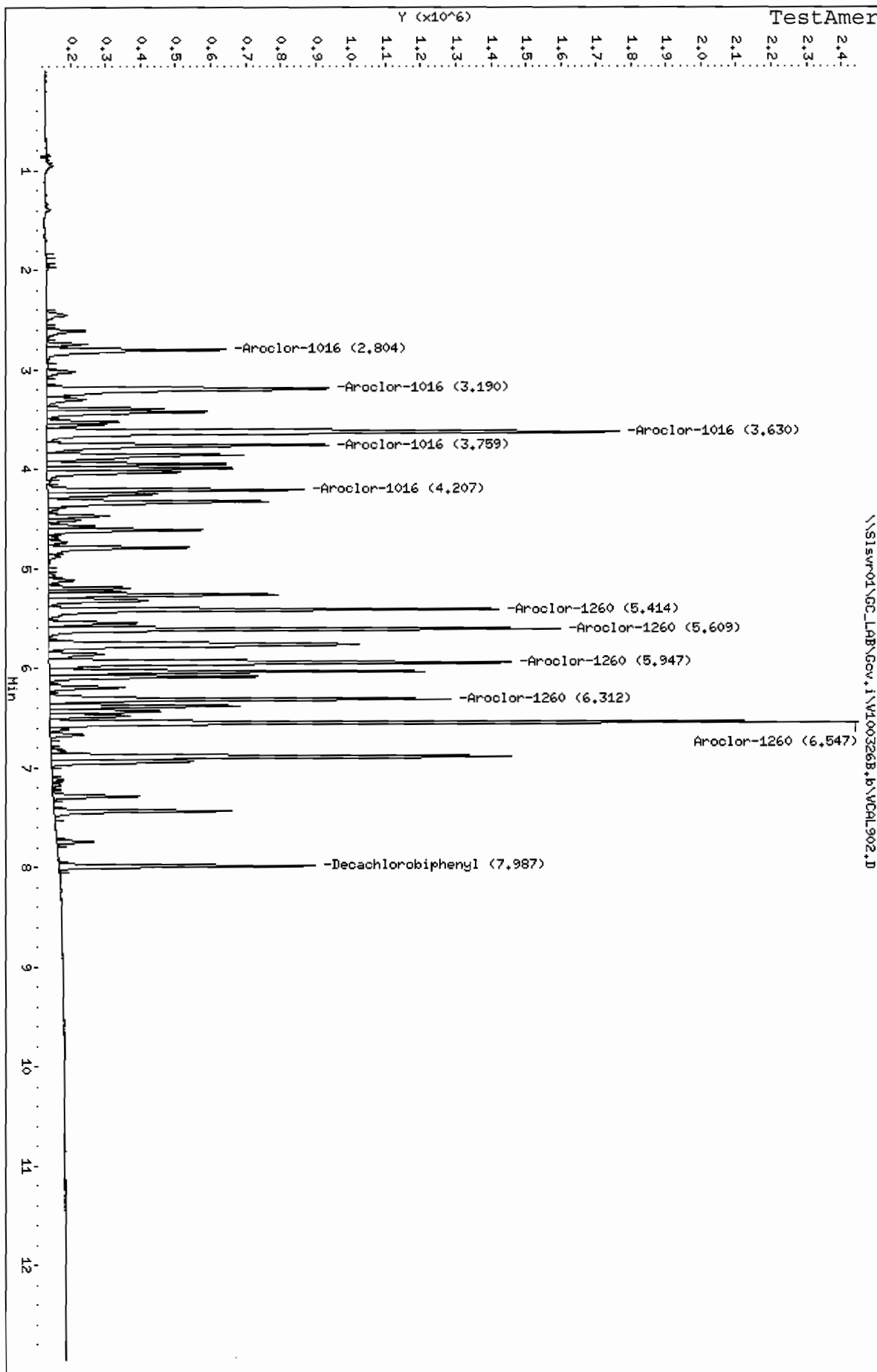
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\DC\_LAB\Gov.i\14100326B.b\WCAL902.D  
 Date: 26-Mar-2010 10:44  
 Client ID:  
 Sample Info: ICAL-4  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



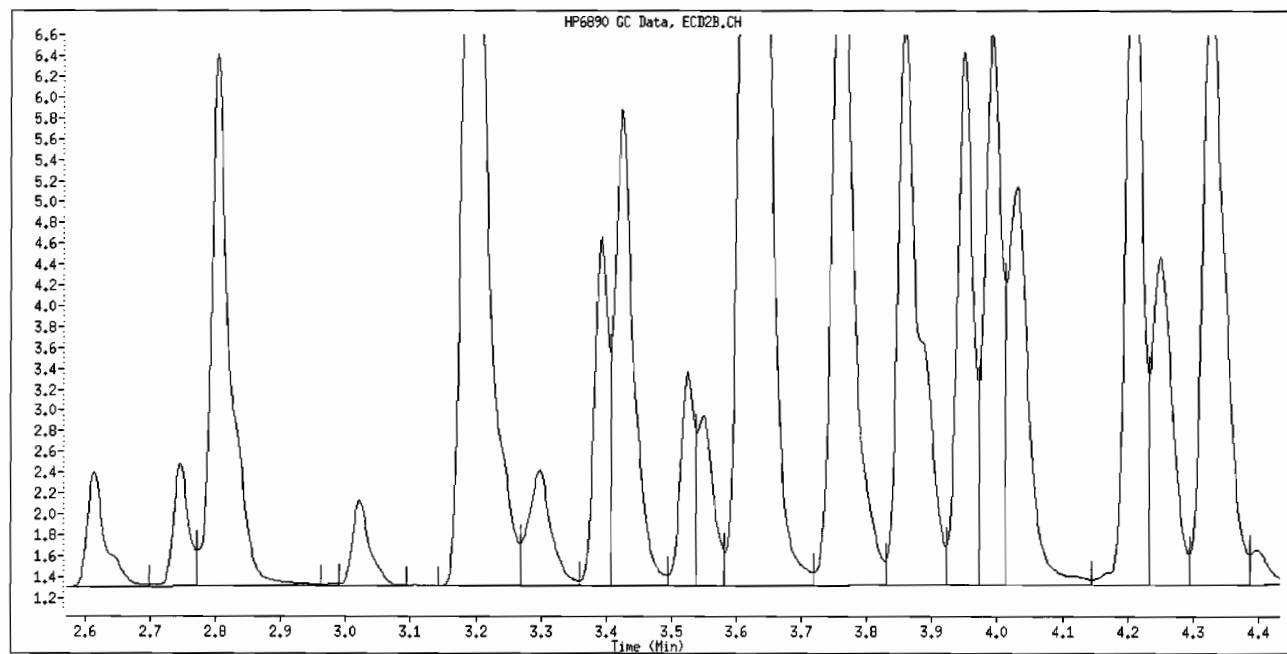
Inj. Date and Time: 26-MAR-2010 10:44

Instrument ID: Gcv.i

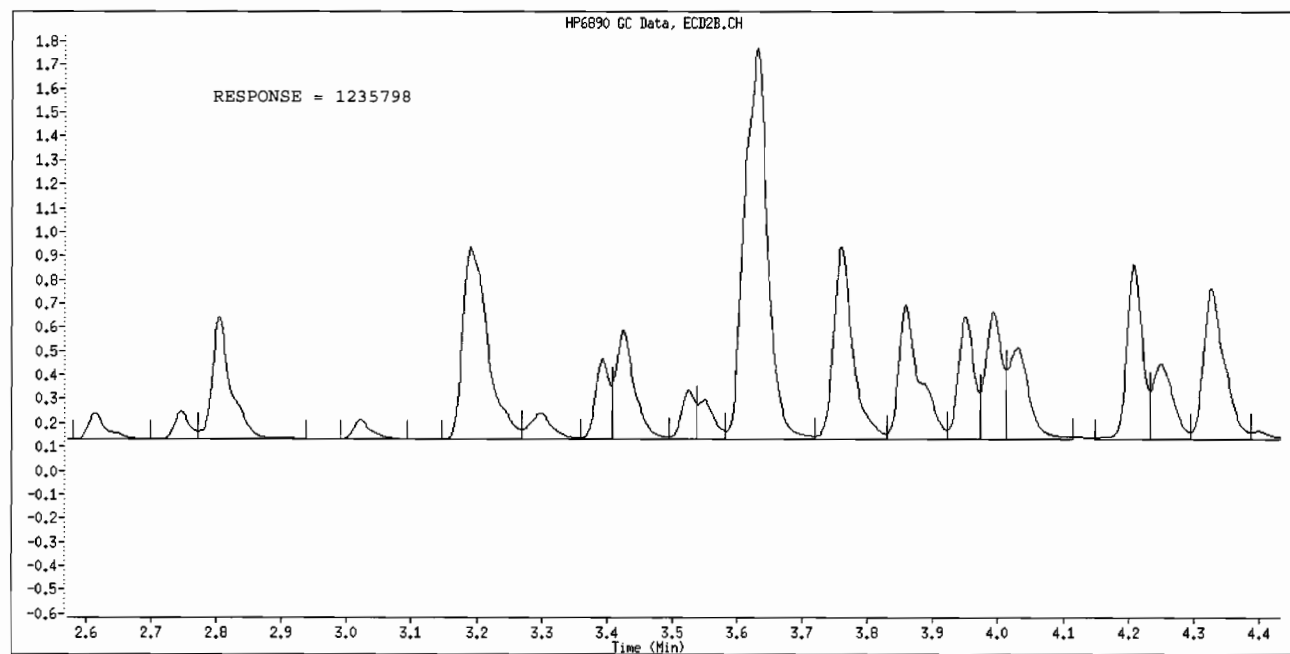
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

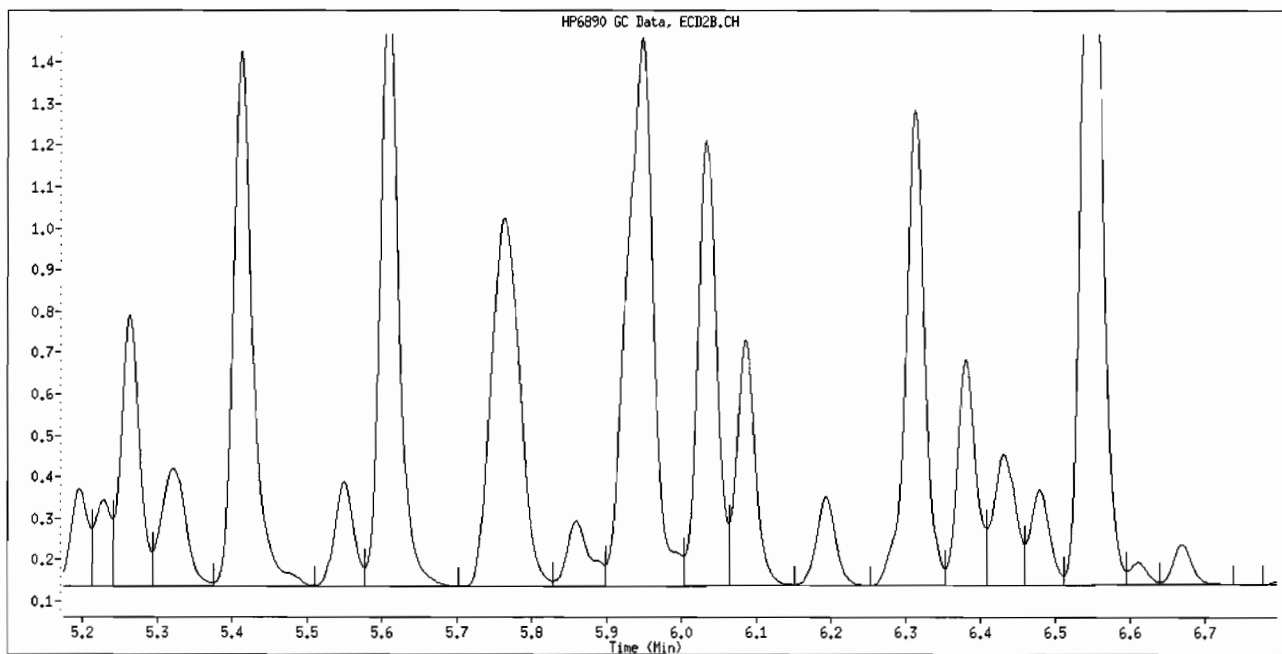
Inj. Date and Time: 26-MAR-2010 10:44

Instrument ID: Gcv.i

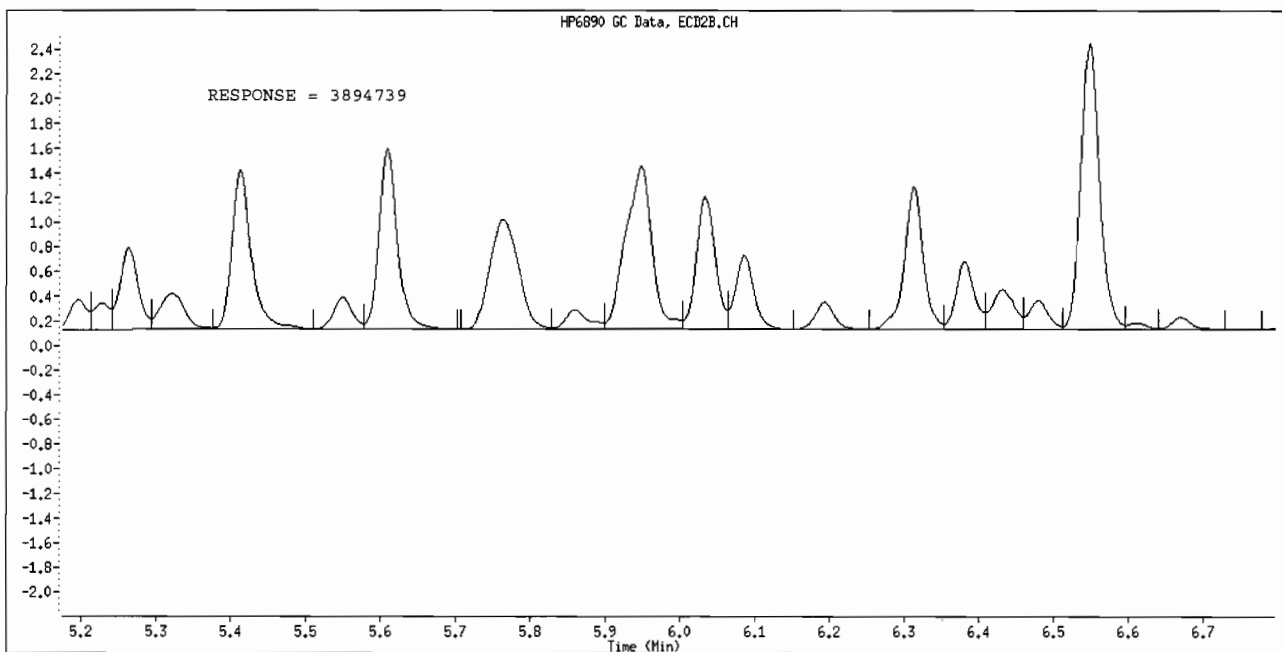
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

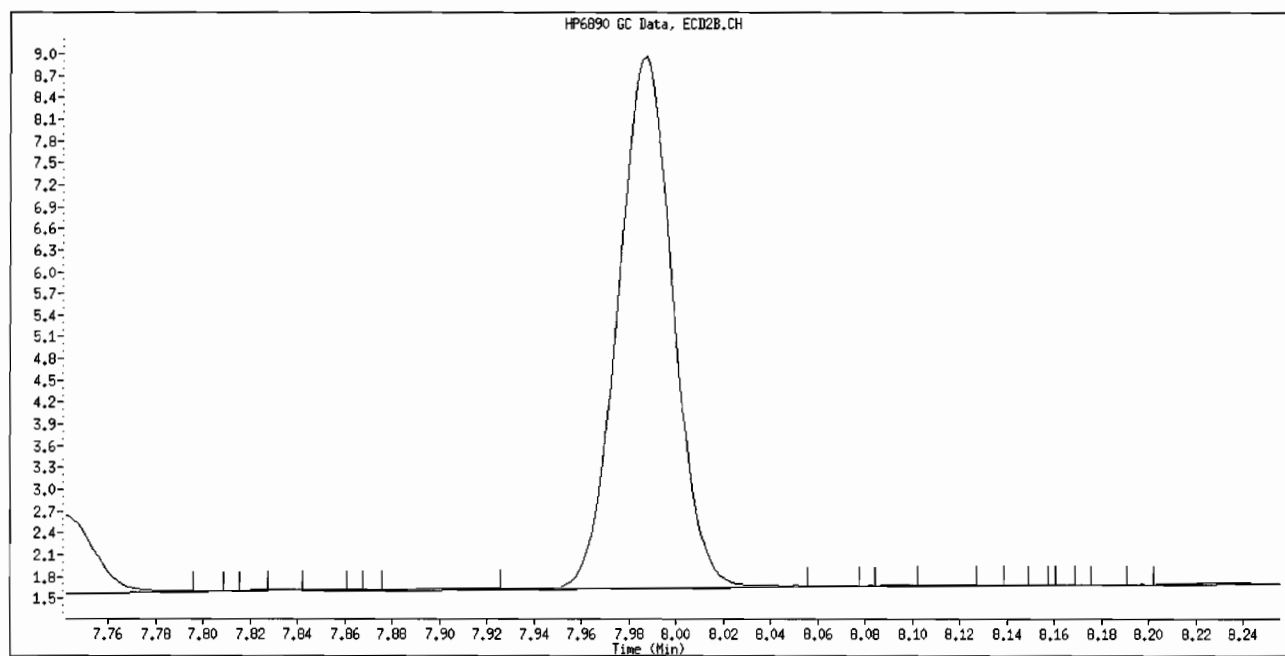
Inj. Date and Time: 26-MAR-2010 10:44

Instrument ID: Gcv.i

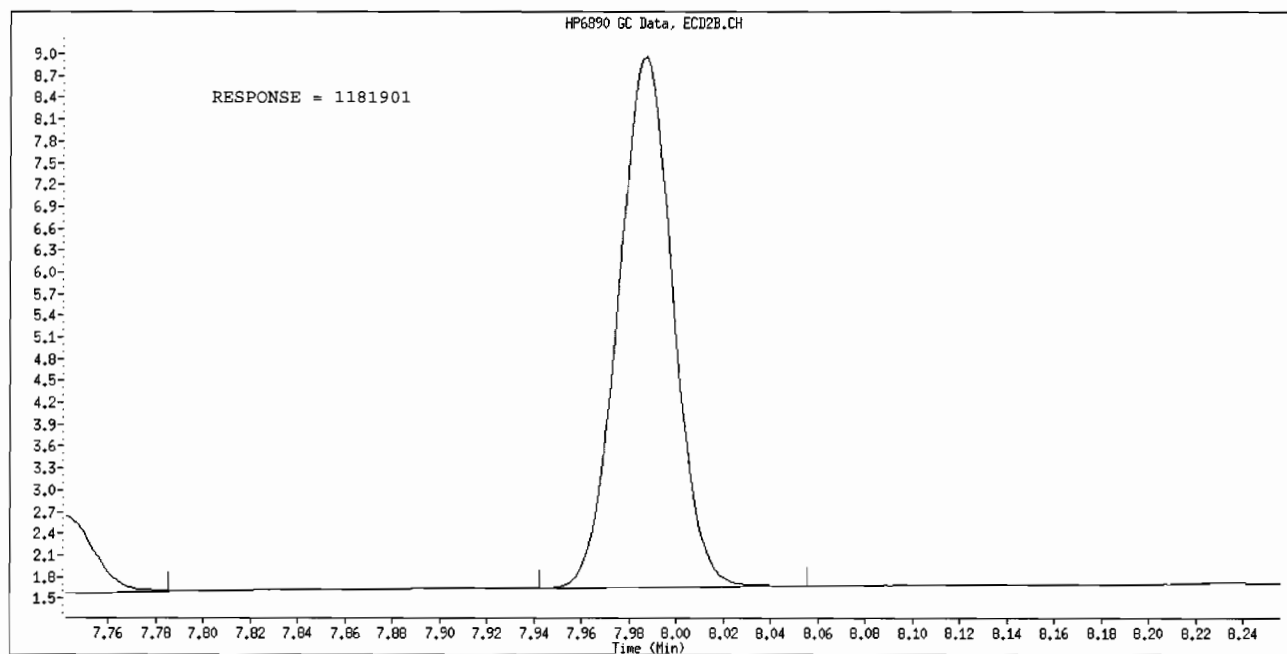
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL903.D  
 Report Date: 26-Mar-2010 14:51

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL903.D  
 Lab Smp Id: ICAL-5  
 Inj Date : 26-MAR-2010 11:03  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-5  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 7 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
-----						
22 Aroclor-1016			CAS #: 12674-11-2			
2.805	2.805	0.000	1848344 1000.00	900.0	80.00- 120.00	100.00 (M)
3.190	3.190	0.000	3673273 1000.00	888.0	39.75- 357.72	198.73
3.630	3.630	0.000	7702266 1000.00	950.8	83.34- 750.08	416.71
3.760	3.760	0.000	3003117 1000.00	902.6	32.50- 292.46	162.48
4.206	4.206	0.000	2323557 1000.00	923.6	25.14- 226.28	125.71
Average of Peak Amounts =			913.000			

28 Aroclor-1260			CAS #: 11096-82-5			
5.411	5.411	0.000	4371387 1000.00	928.6	80.00- 120.00	100.00 (M)
5.608	5.608	0.000	4727473 1000.00	925.2	21.63- 194.66	108.15
5.946	5.946	0.000	5947612 1000.00	923.0	27.21- 244.90	136.06
6.311	6.311	0.000	3880847 1000.00	925.5	17.76- 159.80	88.78
6.546	6.546	0.000	7447266 1000.00	943.0	34.07- 306.66	170.36
Average of Peak Amounts =			929.060			

\$ 32 Decachlorobiphenyl			CAS #:			
7.986	7.986	0.000	2313799 50.0000	48.07		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL903.D  
Report Date: 26-Mar-2010 14:51

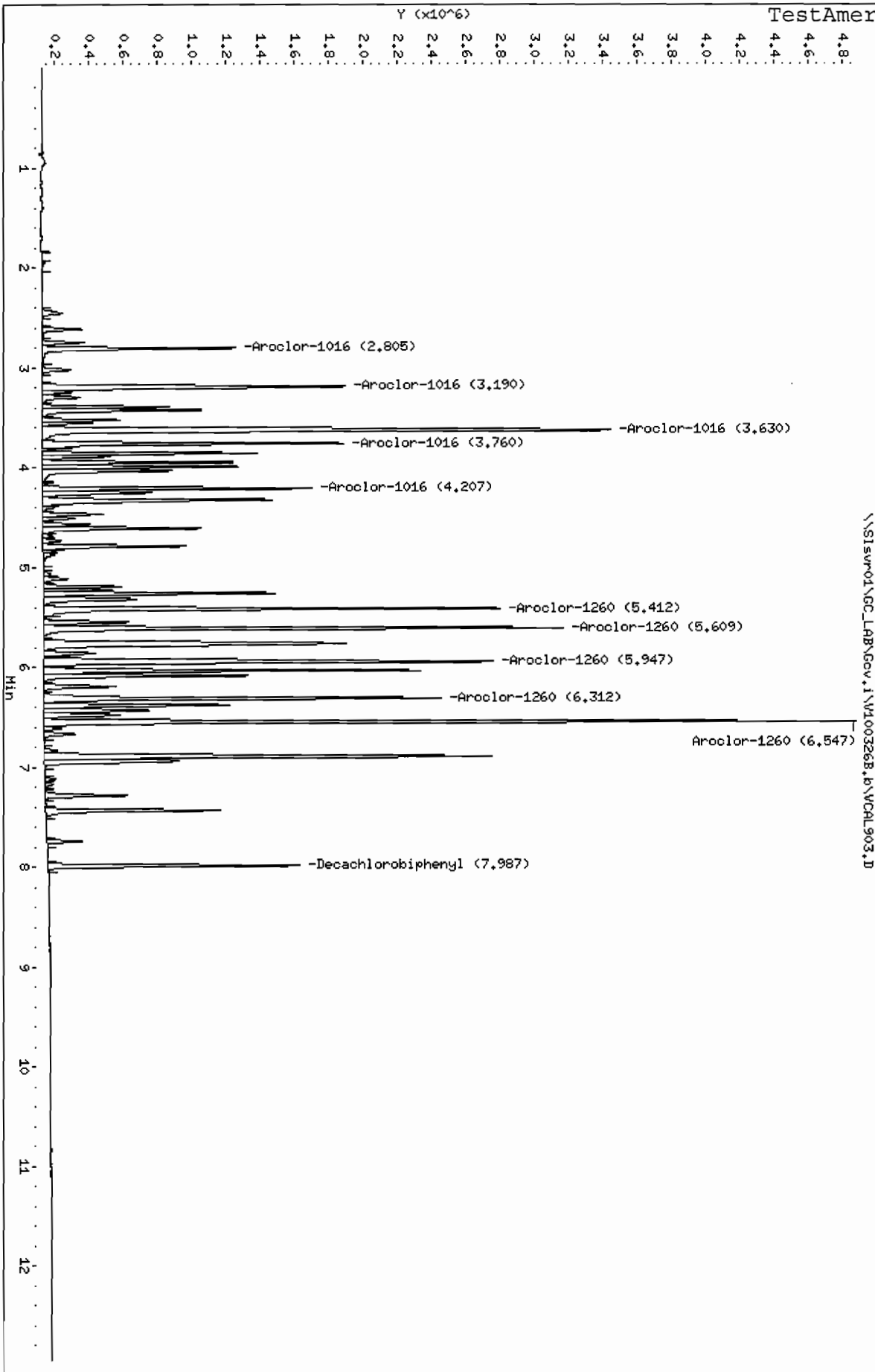
QC Flag Legend

M - Compound response manually integrated.



Data File: \\SISVR01\GC\_LAB\Gov.i\1\1003268.b\WCAL903.D  
Date: 26-MAR-2010 11:03  
Client ID:  
Sample Info: ICAL-5  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



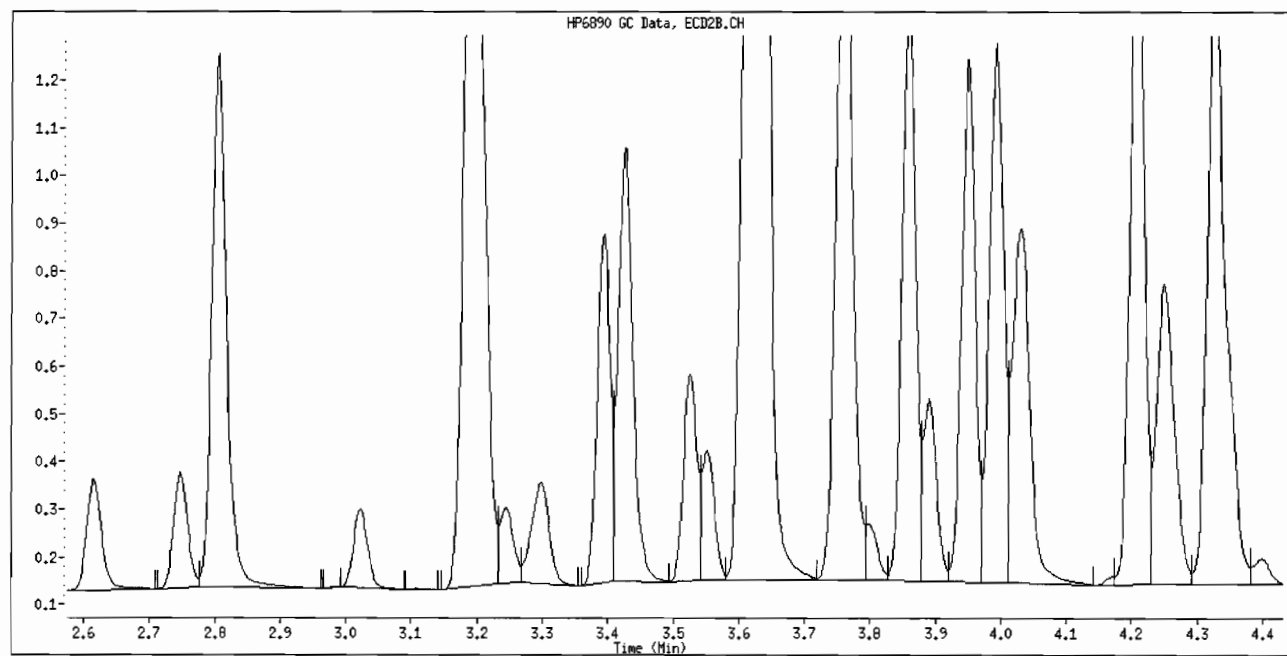
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.i

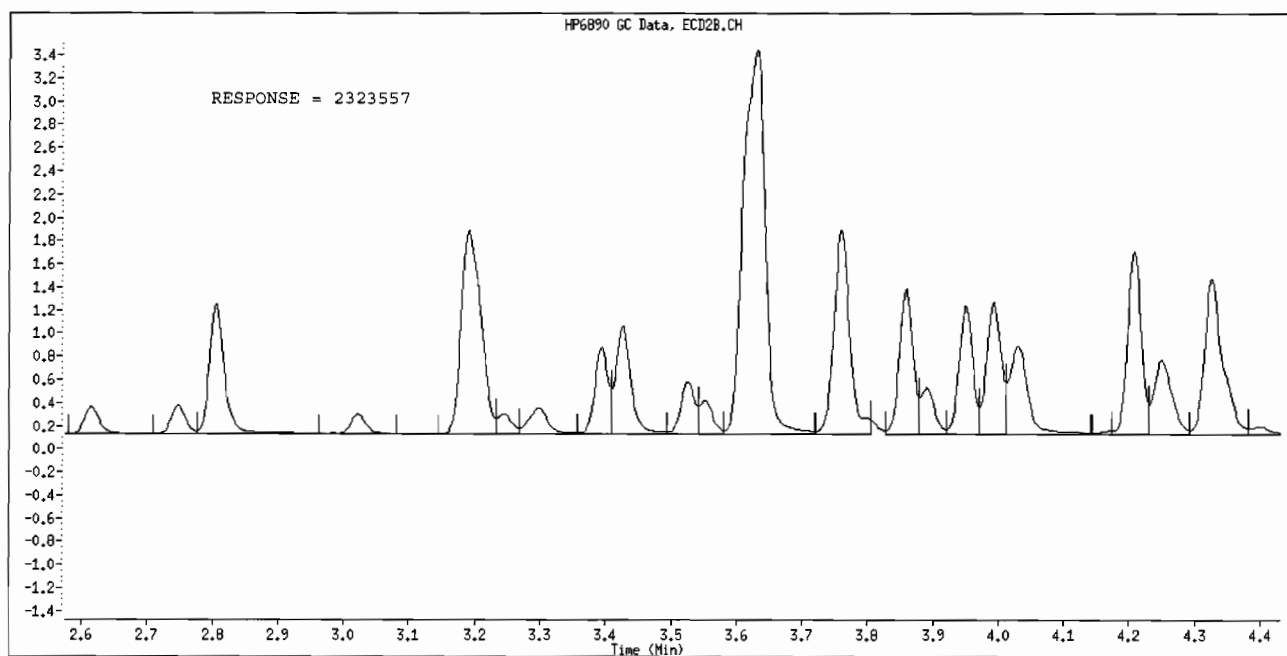
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

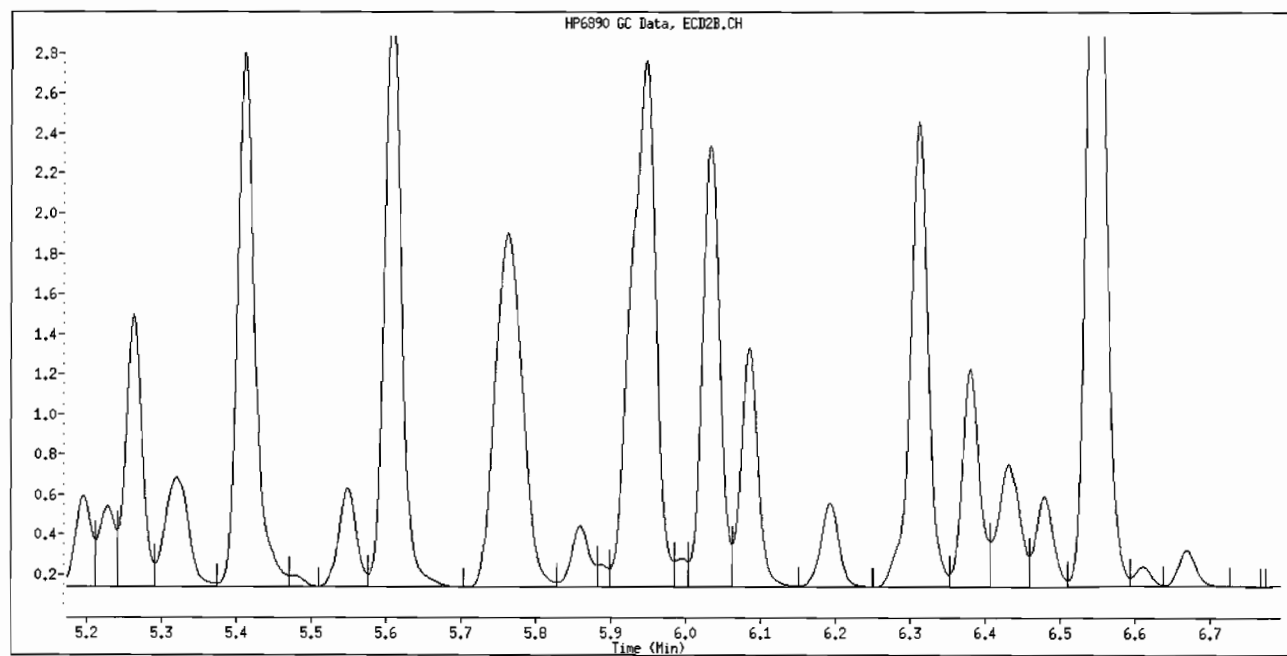
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.i

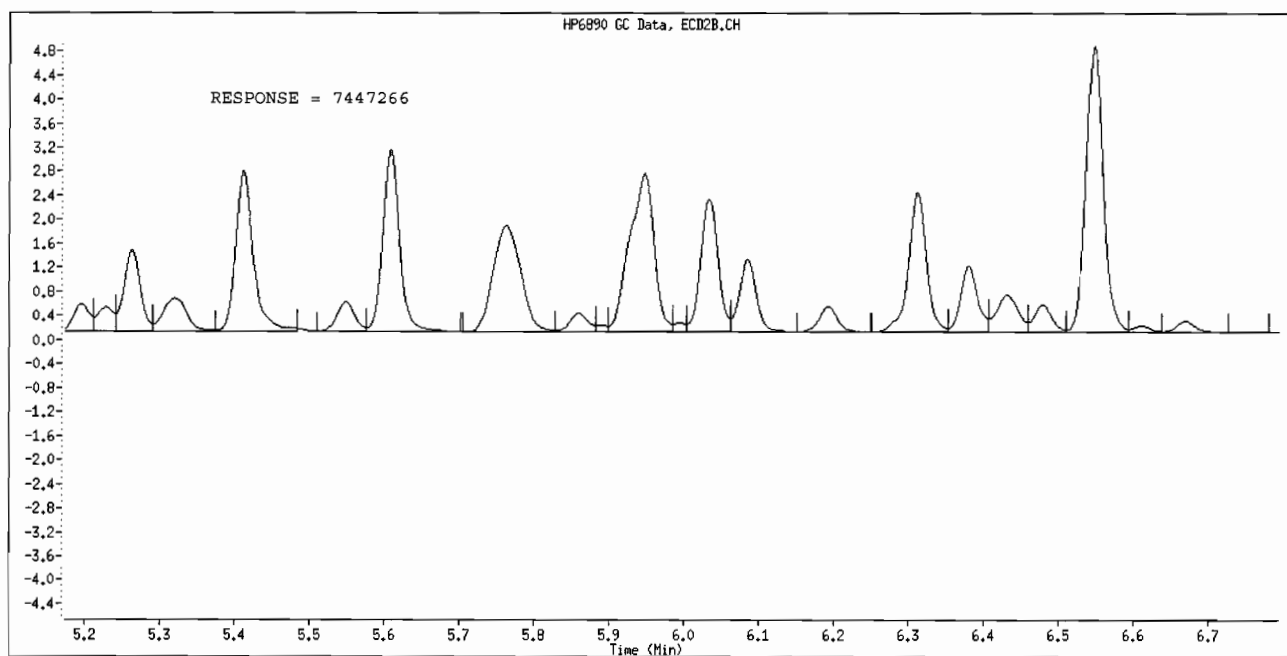
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

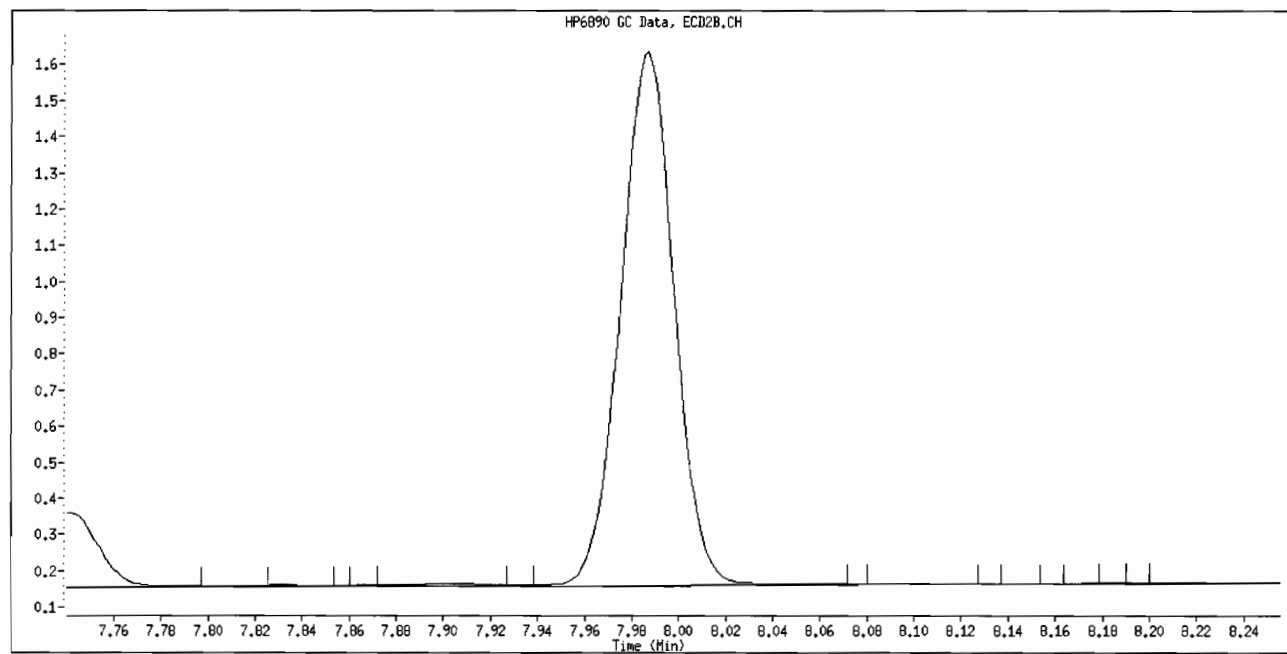
Inj. Date and Time: 26-MAR-2010 11:03

Instrument ID: Gcv.i

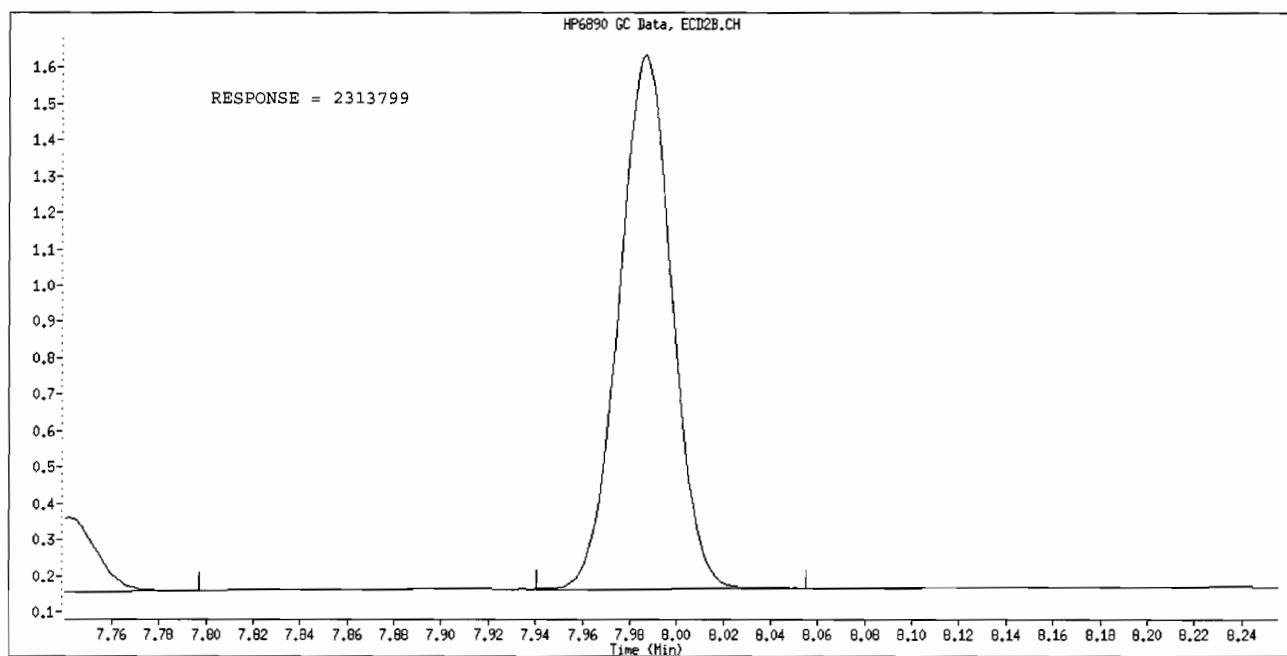
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL904.D  
 Report Date: 26-Mar-2010 14:52

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL904.D  
 Lab Smp Id: ICAL-6  
 Inj Date : 26-MAR-2010 11:22  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-6  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.803	2.805	-0.002	2802875 1498.00	1365	80.00- 120.00	100.00 (M)
3.190	3.190	0.000	5605797 1498.00	1355	39.75- 357.72	200.00
3.630	3.630	0.000	11983758 1498.00	1479	83.34- 750.08	427.55
3.758	3.760	-0.002	4773525 1498.00	1435	32.50- 292.46	170.31
4.206	4.206	0.000	3599299 1498.00	1431	25.14- 226.28	128.41
Average of Peak Amounts =			1413.00			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28						
Aroclor-1260			CAS #: 11096-82-5			
5.411	5.411	0.000	6758859 1498.00	1436	80.00- 120.00	100.00 (M)
5.608	5.608	0.000	7498653 1498.00	1468	21.63- 194.66	110.95
5.946	5.946	0.000	9536260 1498.00	1480	27.21- 244.90	141.09
6.311	6.311	0.000	6170388 1498.00	1472	17.76- 159.80	91.29
6.546	6.546	0.000	12087400 1498.00	1531	34.07- 306.66	178.84
Average of Peak Amounts =			1477.40			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
32						
Decachlorobiphenyl			CAS #:			
7.986	7.986	0.000	3800456 75.0000	78.95		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL904.D  
Report Date: 26-Mar-2010 14:52

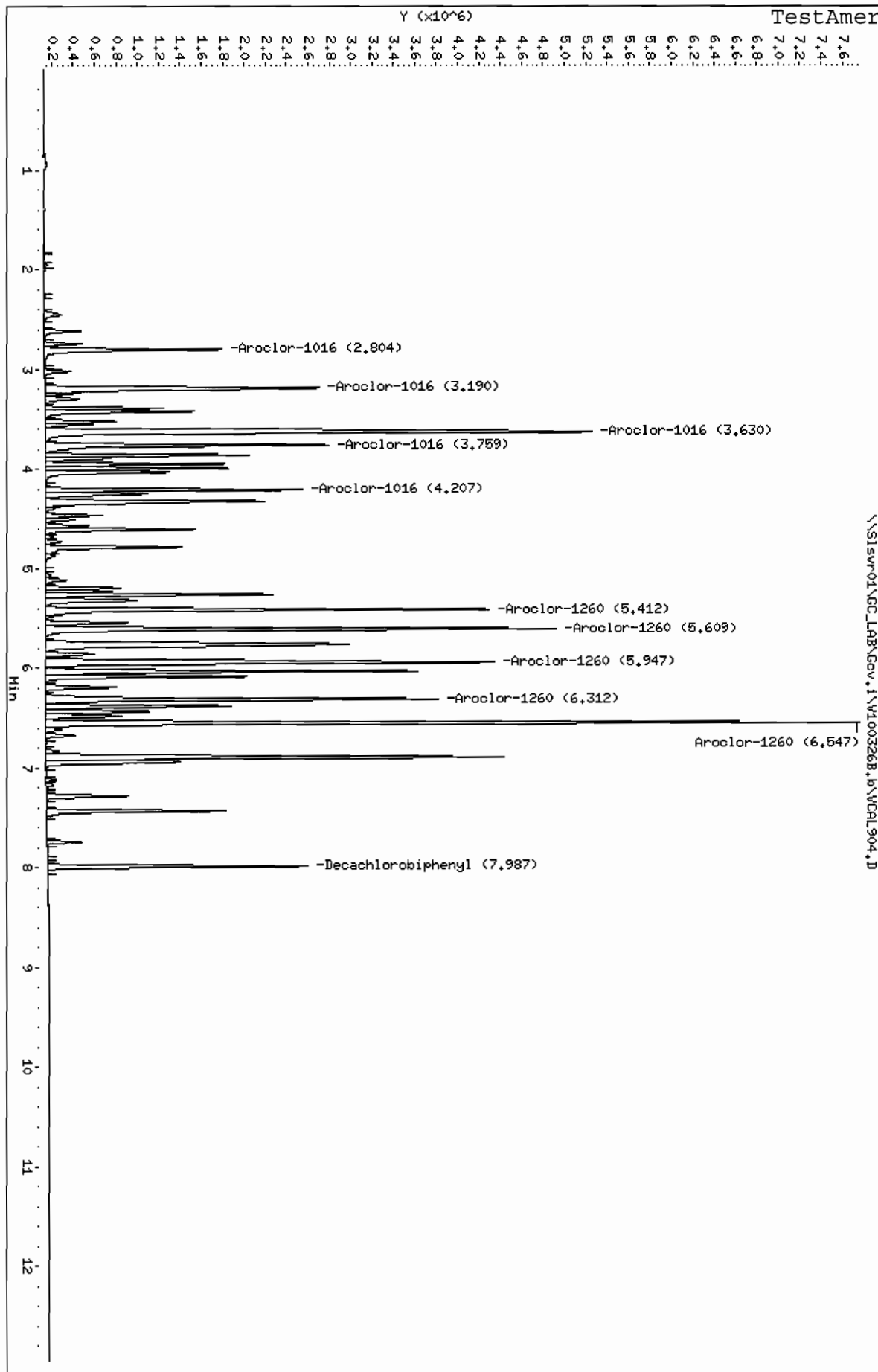
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.1\W1003268.b\WCAL904.D  
Date: 26-MAR-2010 11:22  
Client ID:  
Sample Info: ICAL-6  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.1  
Operator: DEK  
Column diameter: 0.53



Data File Name: VCAL904.D

TestAmerica St. Louis

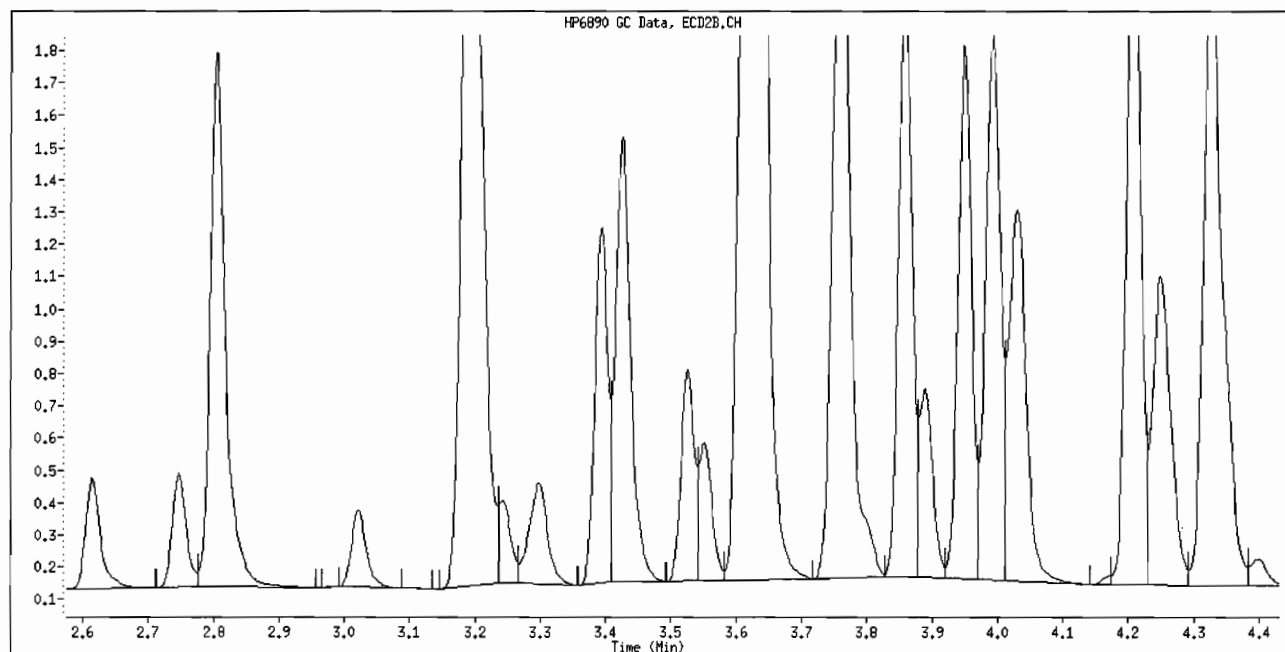
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

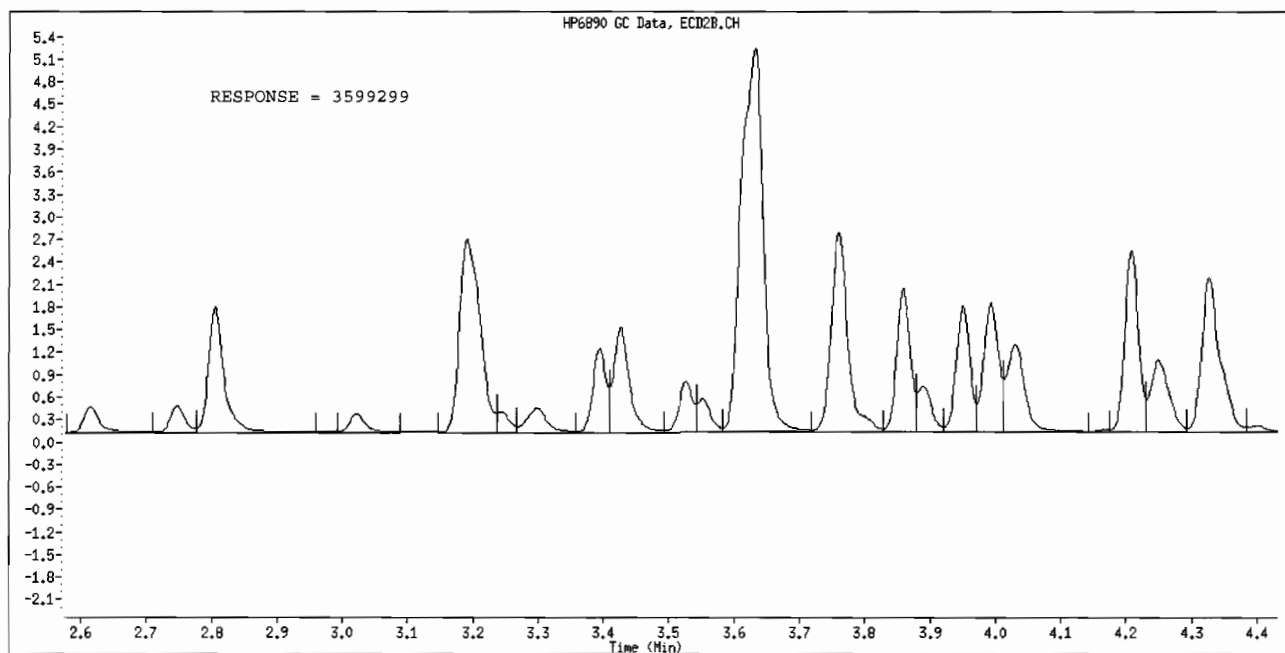
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



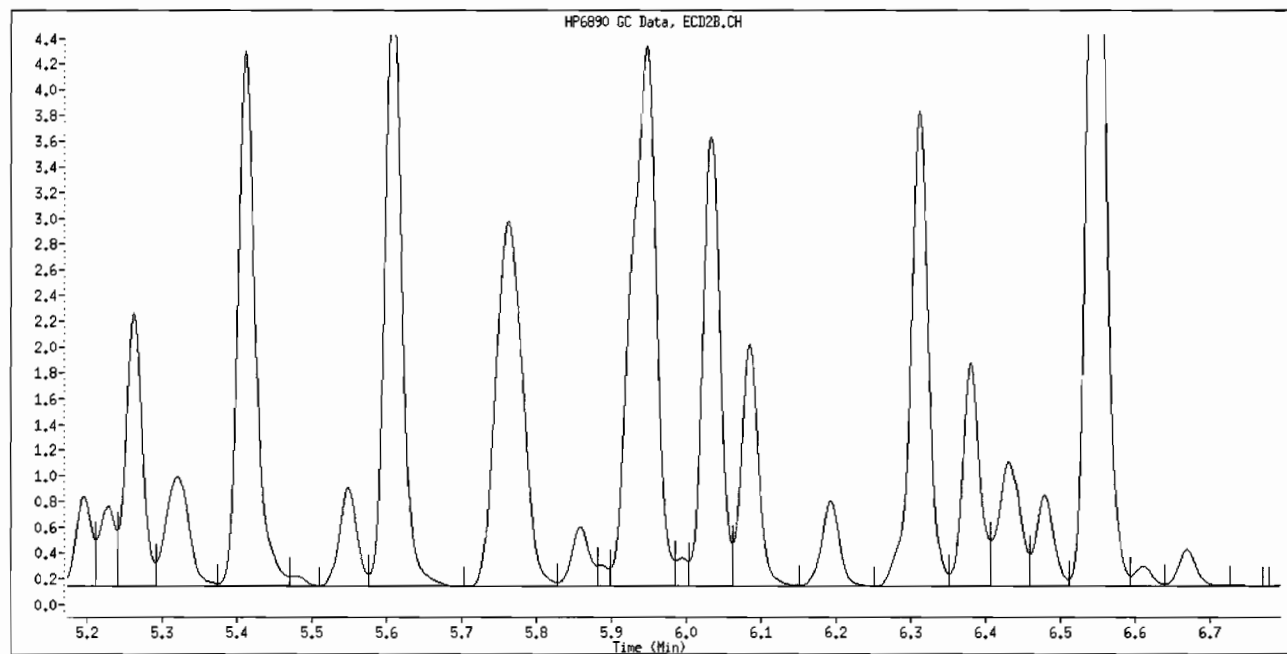
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

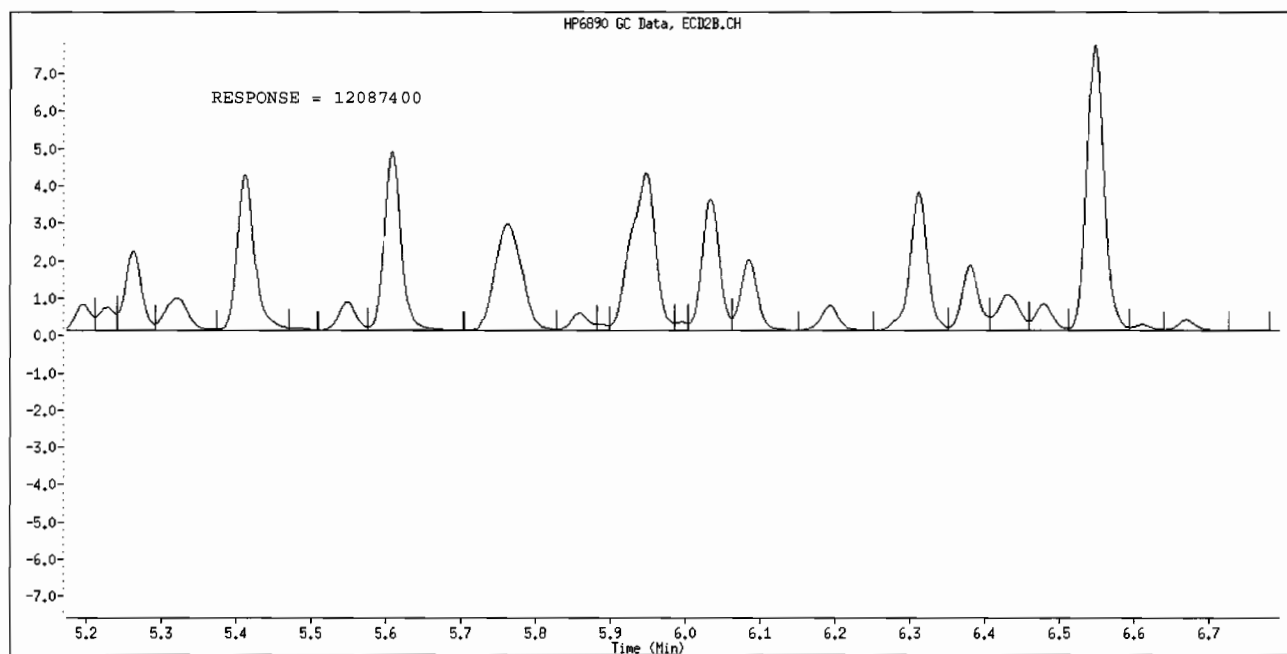
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL904.D

TestAmerica St. Louis

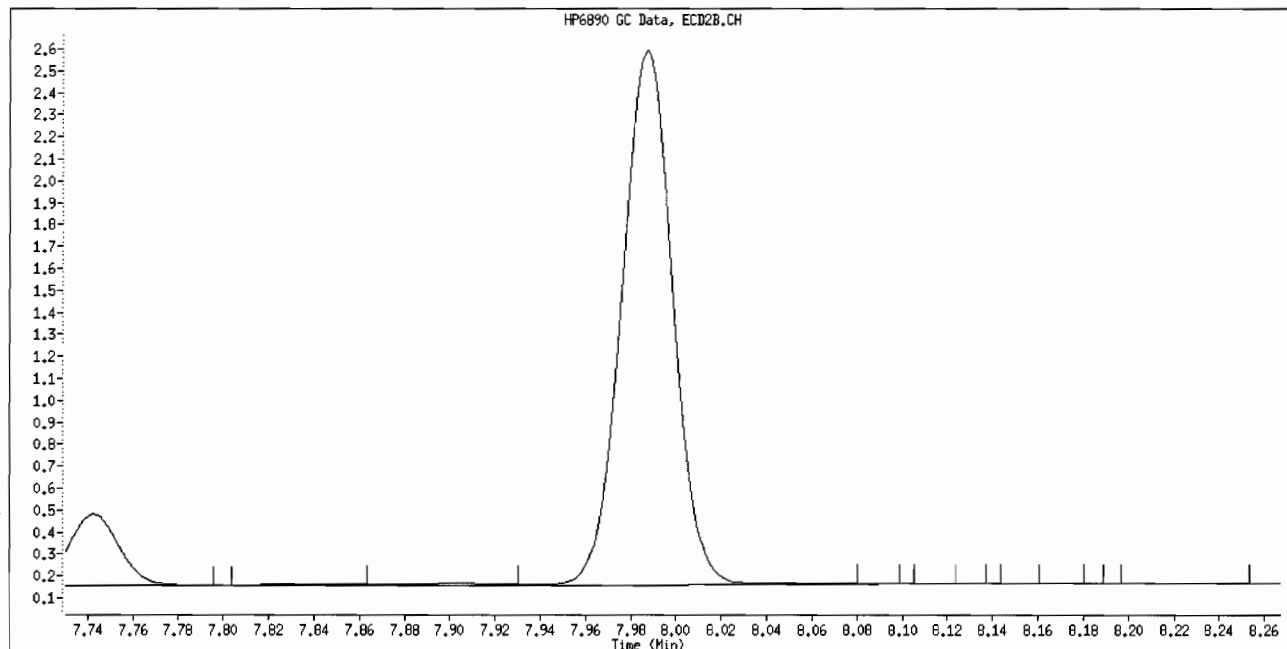
Inj. Date and Time: 26-MAR-2010 11:22

Instrument ID: Gcv.i

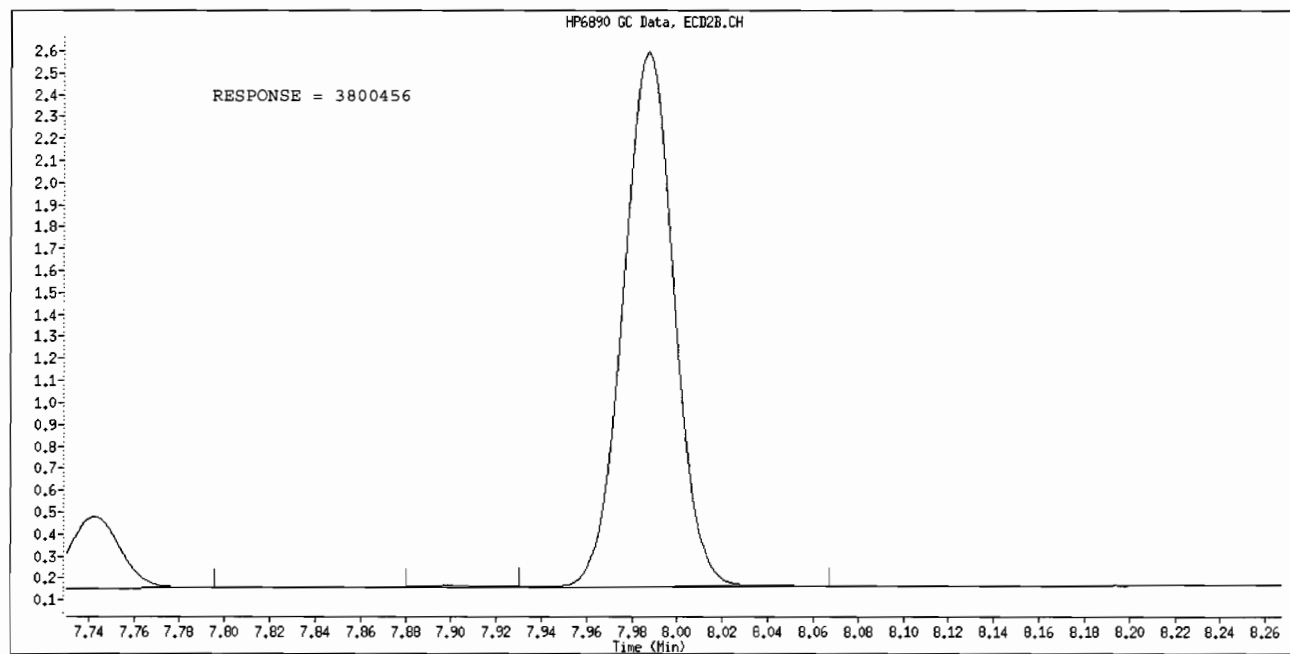
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL905.D  
 Report Date: 26-Mar-2010 14:52

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL905.D  
 Lab Smp Id: ICAL-7  
 Inj Date : 26-MAR-2010 11:40  
 Operator : DEK  
 Smp Info : ICAL-7  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target  
 Cal Date : 26-MAR-2010 11:03  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcv.i  
 Quant Type: ESTD  
 Cal File: VCAL903.D  
 Calibration Sample, Level: 7  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.805	2.805	0.000	4642957 2500.00	2261	80.00- 120.00	100.00 (M)
3.191	3.190	0.001	9671614 2500.00	2338	39.75- 357.72	208.31
3.631	3.630	0.001	19668361 2500.00	2428	83.34- 750.08	423.62
3.761	3.760	0.001	7833183 2500.00	2354	32.50- 292.46	168.71
4.208	4.206	0.002	6020474 2500.00	2393	25.14- 226.28	129.67
Average of Peak Amounts =			2354.80			

28 Aroclor-1260			CAS #: 11096-82-5			
5.413	5.411	0.002	11357078 2500.00	2412	80.00- 120.00	100.00 (M)
5.610	5.608	0.002	12406448 2500.00	2428	21.63- 194.66	109.24
5.948	5.946	0.002	15950016 2500.00	2475	27.21- 244.90	140.44
6.313	6.311	0.002	10292255 2500.00	2454	17.76- 159.80	90.62
6.546	6.546	0.000	20157665 2500.00	2552	34.07- 306.66	177.49
Average of Peak Amounts =			2464.20			

\$ 32 Decachlorobiphenyl			CAS #:			
7.986	7.986	0.000	6191873 150.000	128.6		(M)

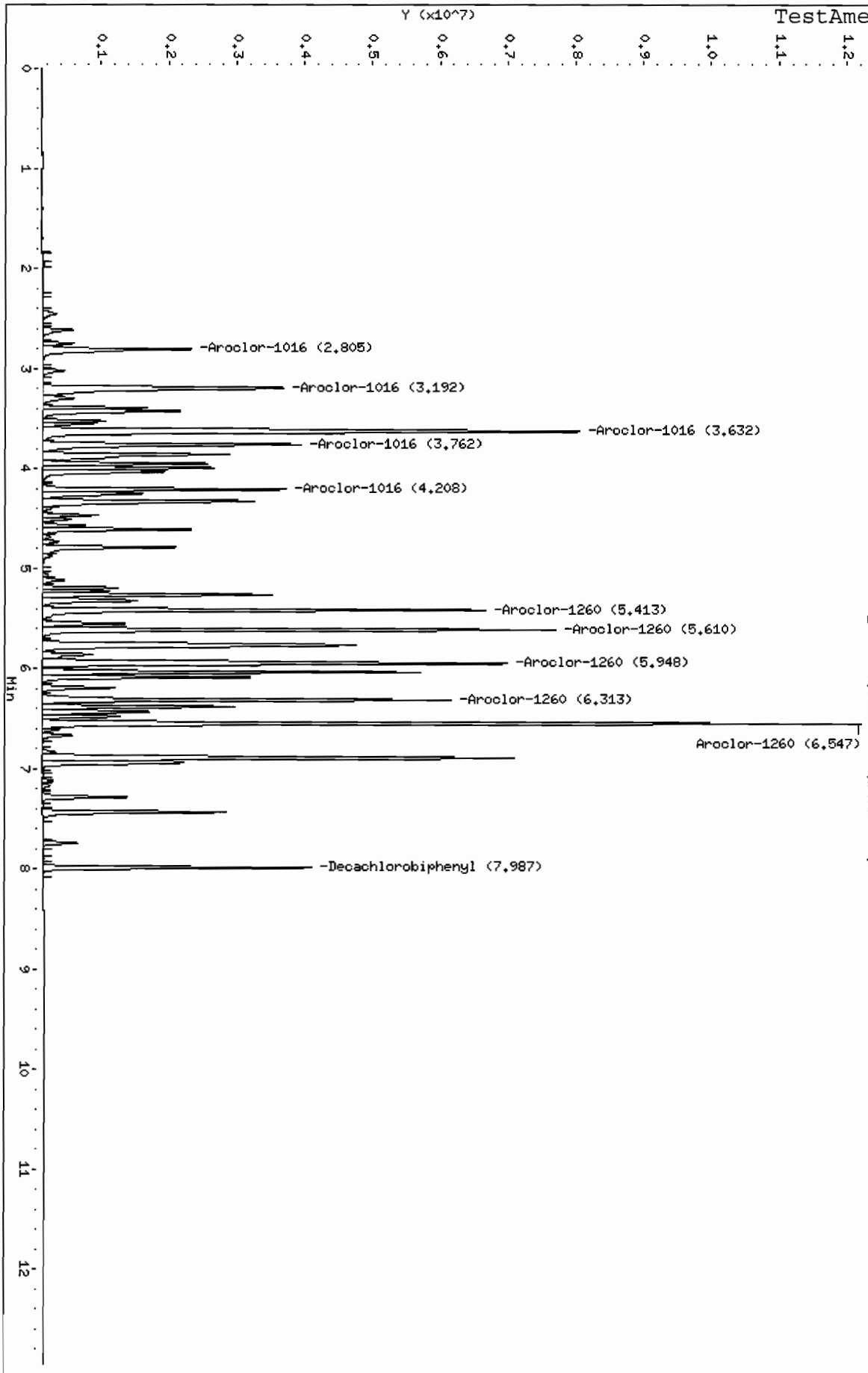
Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL905.D  
Report Date: 26-Mar-2010 14:52

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slaw01\GC\_LAB\Gov.i\11003268.b\WCAL906.D  
Date: 26-Mar-2010 11:40  
Client ID:  
Sample Info: ICAL-7  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



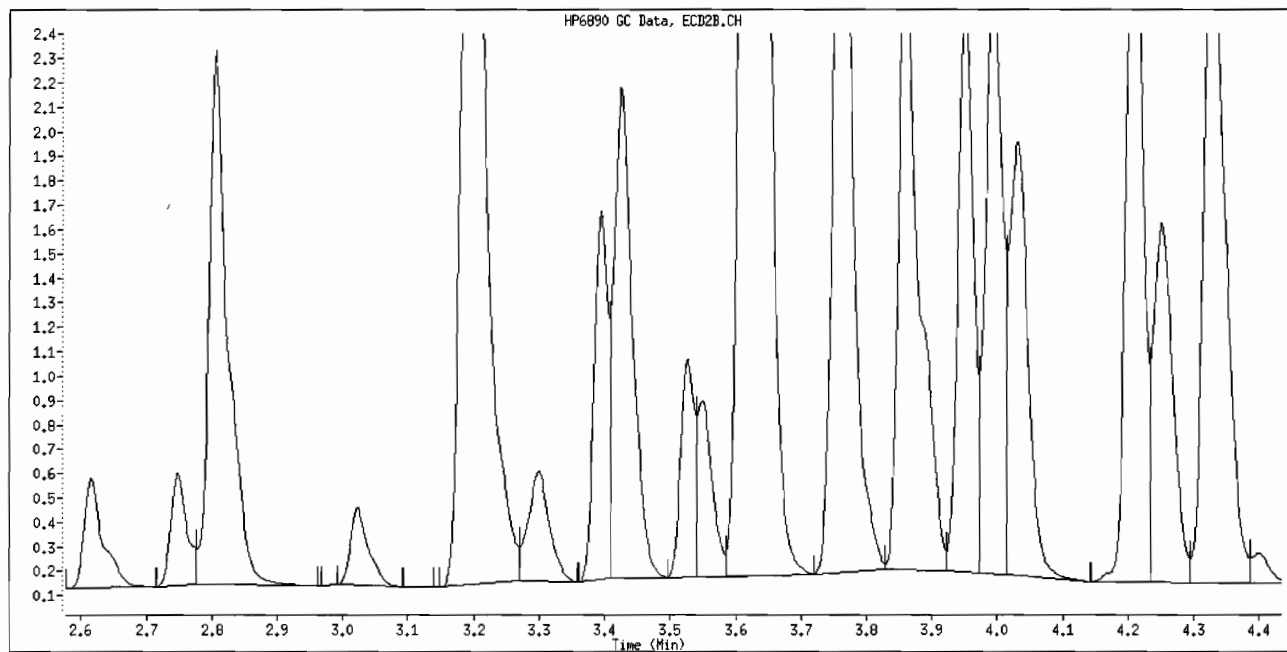
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

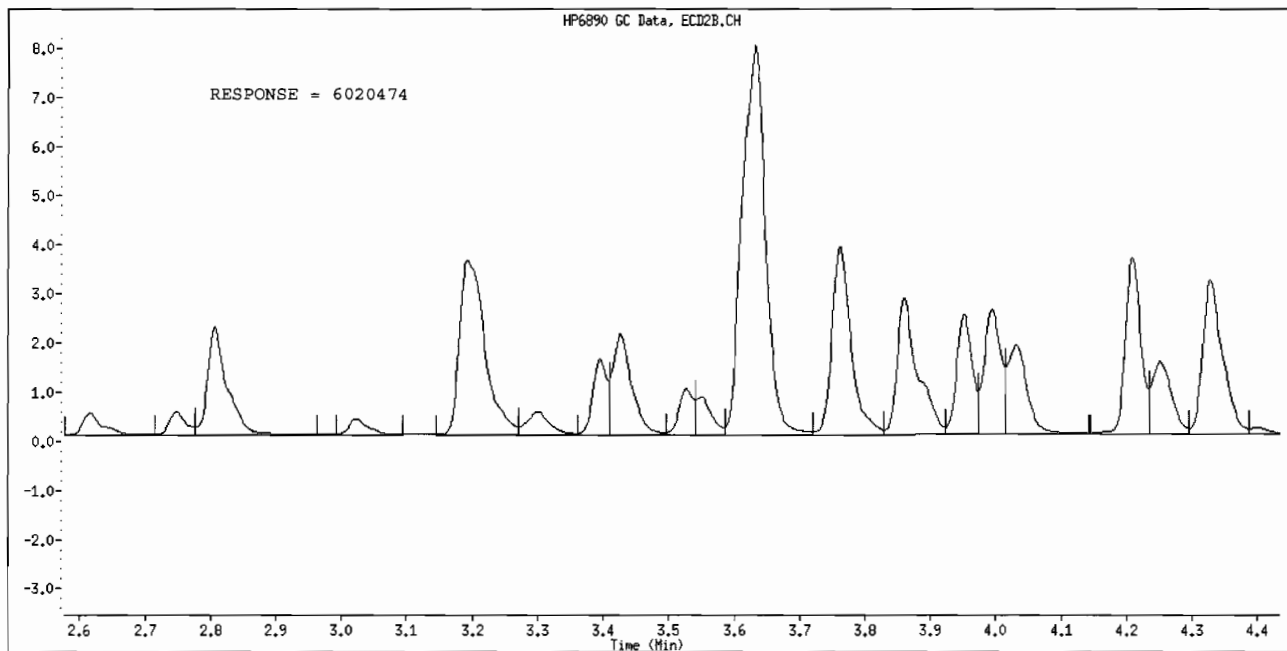
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

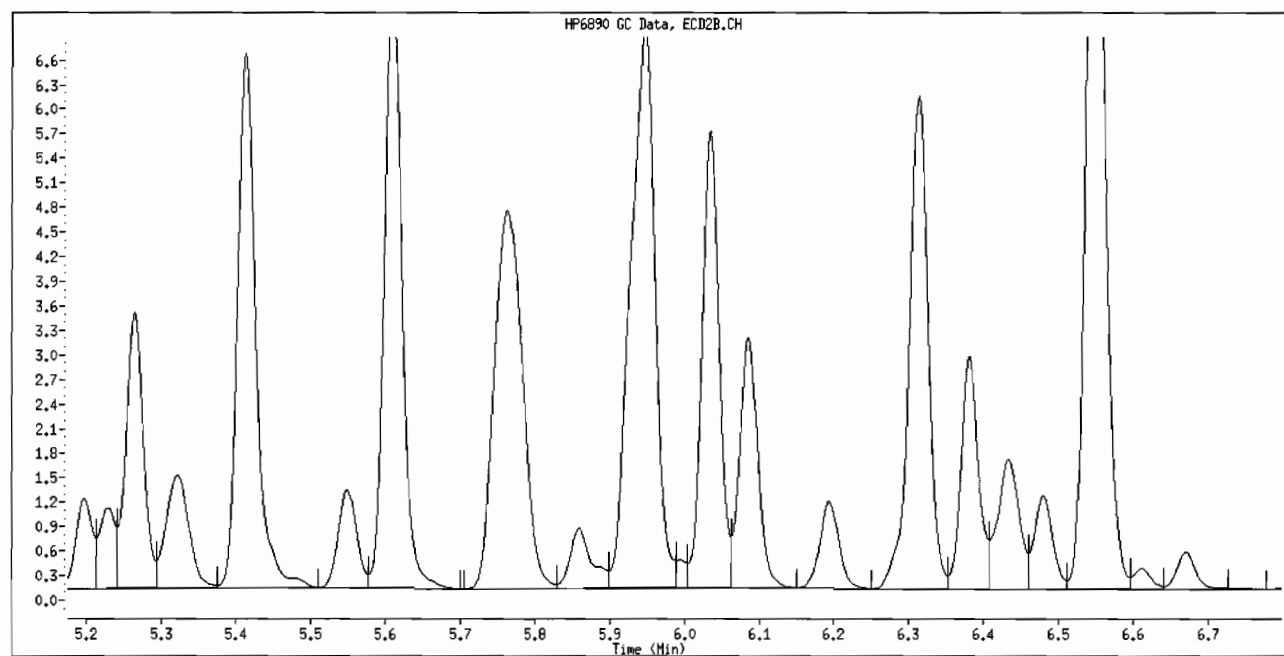
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

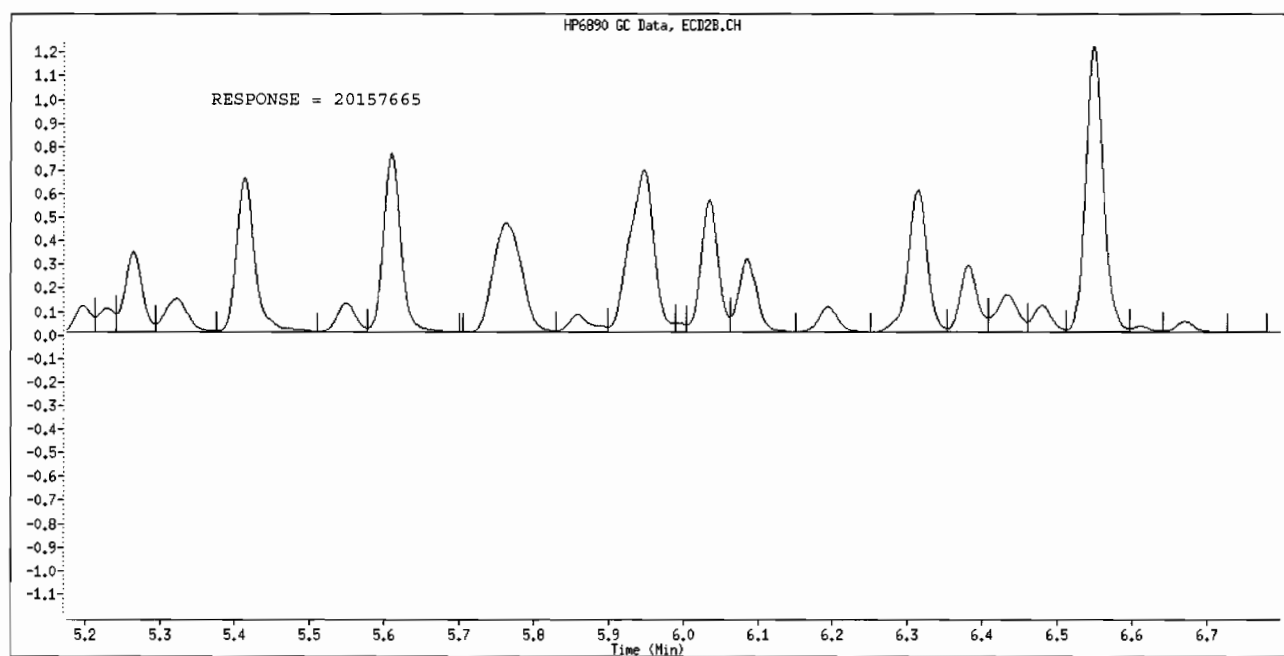
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

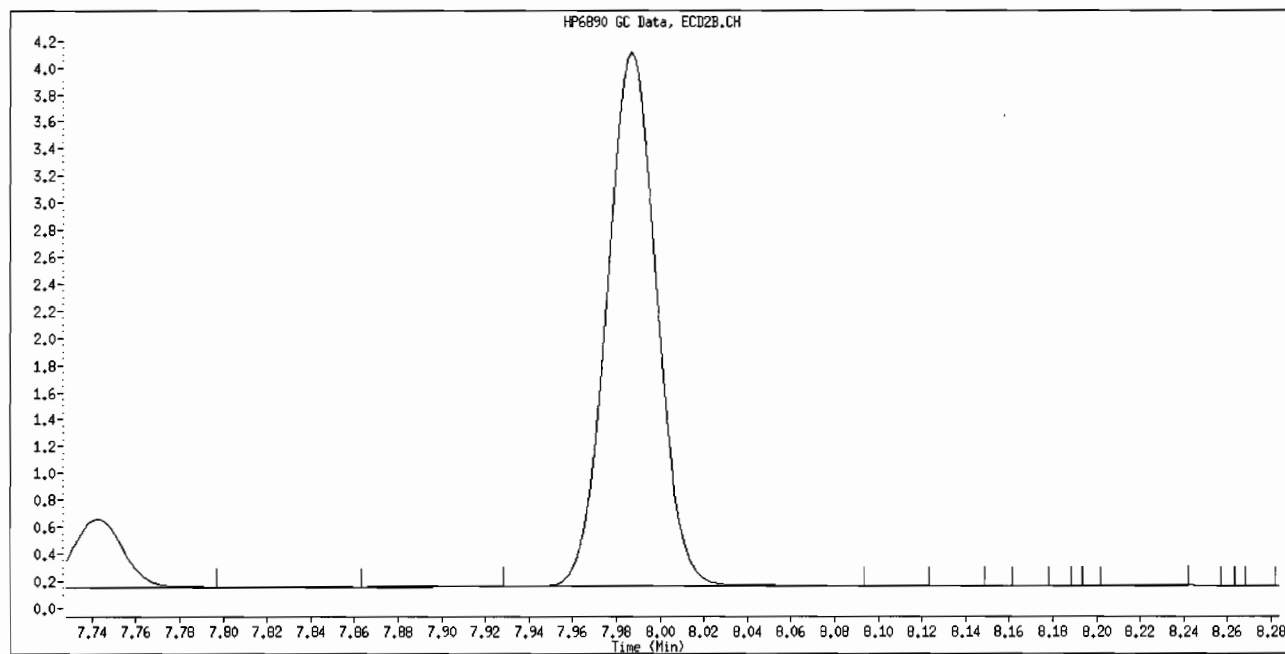
Inj. Date and Time: 26-MAR-2010 11:40

Instrument ID: Gcv.i

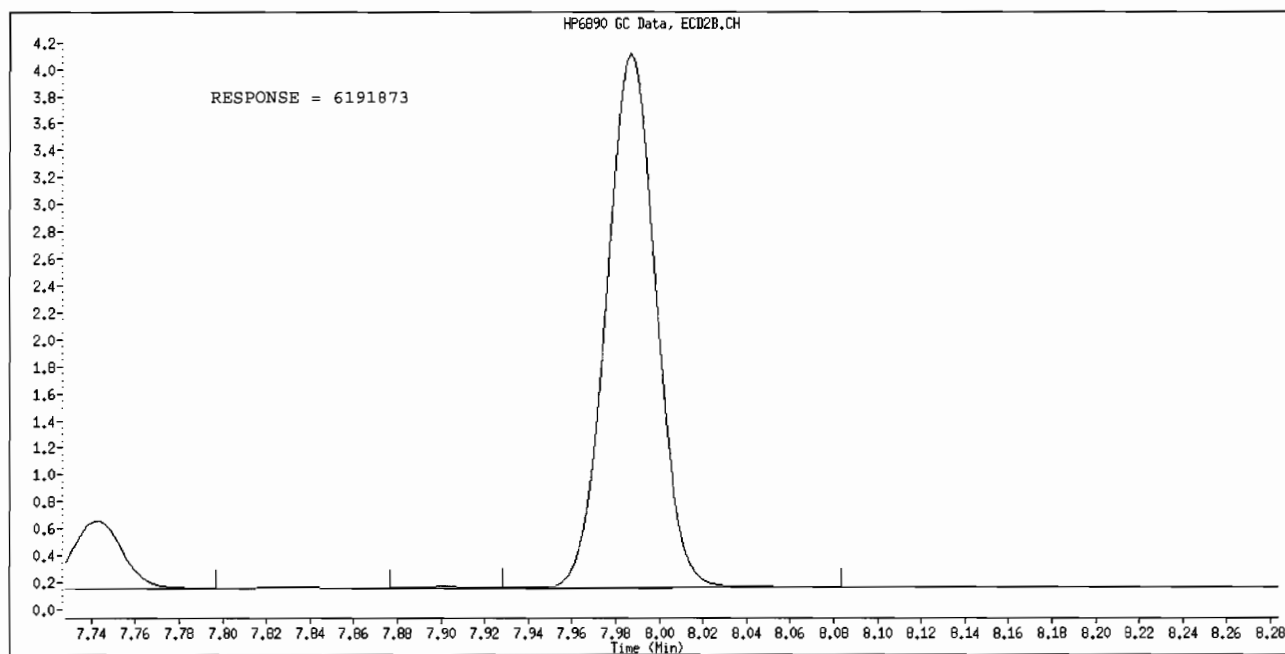
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL906.D  
 Report Date: 26-Mar-2010 14:52

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL906.D  
 Lab Smp Id: ICAL-8  
 Inj Date : 26-MAR-2010 11:59  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICAL-8  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:51 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 10 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016			CAS #: 12674-11-2			
2.806	2.805	0.001	6671894 4000.00	3249	80.00- 120.00	100.00(M)
3.191	3.190	0.001	13228943 4000.00	3198	39.75- 357.72	198.28
3.632	3.630	0.002	28940978 4000.00	3573	83.34- 750.08	433.77
3.761	3.760	0.001	11556302 4000.00	3473	32.50- 292.46	173.21
4.207	4.206	0.001	8797636 4000.00	3497	25.14- 226.28	131.86
Average of Peak Amounts =			3398.00			
-----						
28 Aroclor-1260			CAS #: 11096-82-5			
5.414	5.411	0.003	16648275 4000.00	3536	80.00- 120.00	100.00(M)
5.611	5.608	0.003	18399381 4000.00	3601	21.63- 194.66	110.52
5.947	5.946	0.001	23740535 4000.00	3684	27.21- 244.90	142.60
6.314	6.311	0.003	15441882 4000.00	3683	17.76- 159.80	92.75
6.547	6.546	0.001	30118833 4000.00	3814	34.07- 306.66	180.91
Average of Peak Amounts =			3663.60			
-----						
\$ 32 Decachlorobiphenyl			CAS #:			
7.987	7.986	0.001	9709994 200.000	201.7		(M)
-----						

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL906.D  
Report Date: 26-Mar-2010 14:52

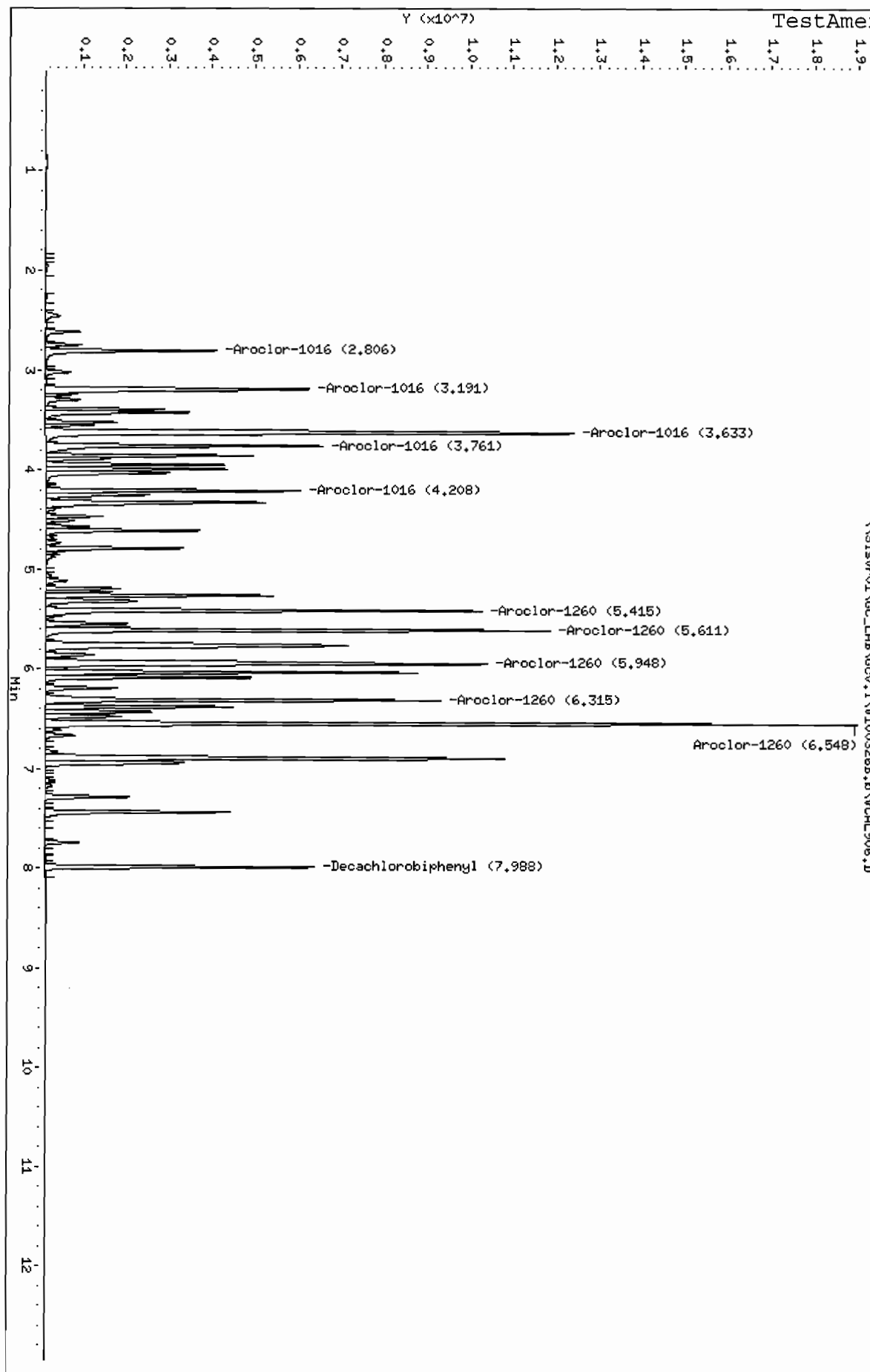
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISVR01\GC\_LAB\Gov.i\W100326B.b\WCAL906.D  
 Date : 26-MAR-2010 11:59  
 Client ID:  
 Sample Info: ICAL-8  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



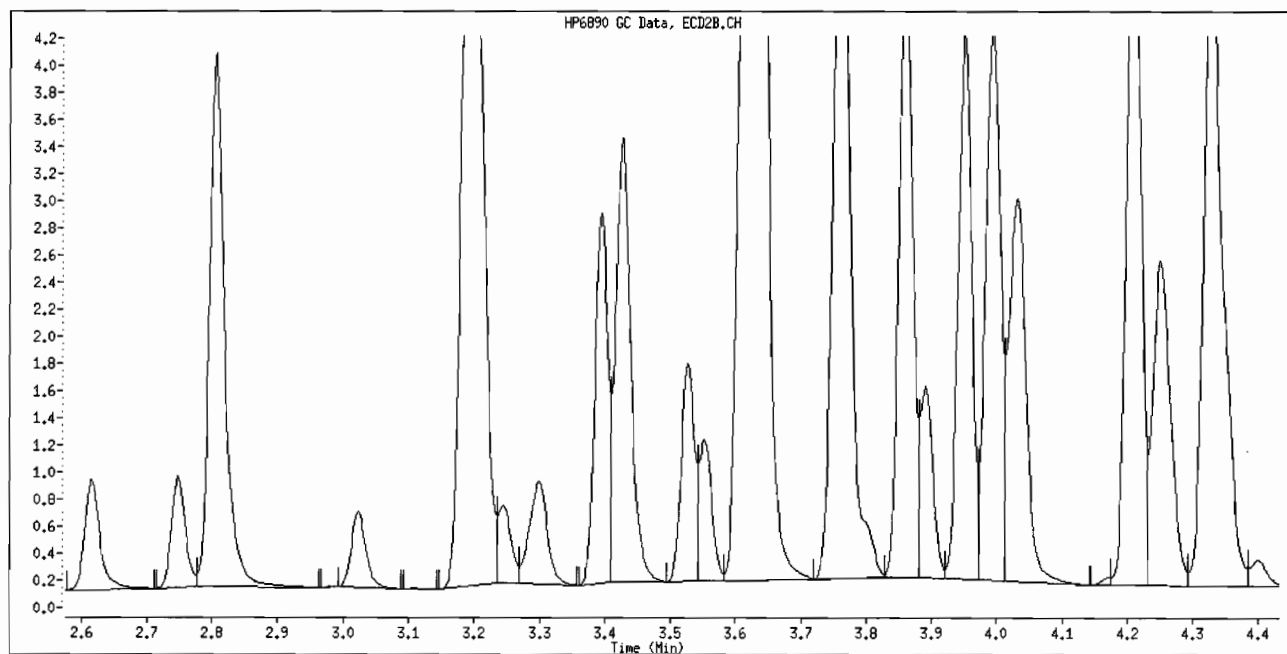
Inj. Date and Time: 26-MAR-2010 11:59

Instrument ID: Gcv.i

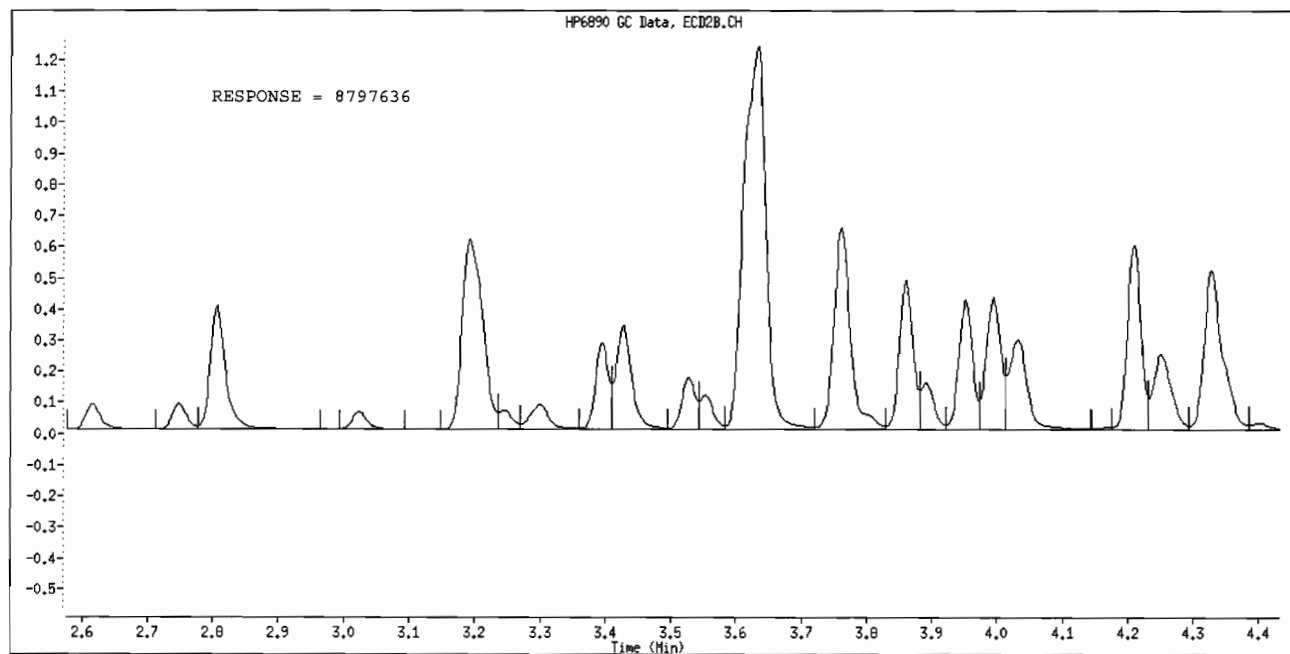
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL906.D

TestAmerica St. Louis

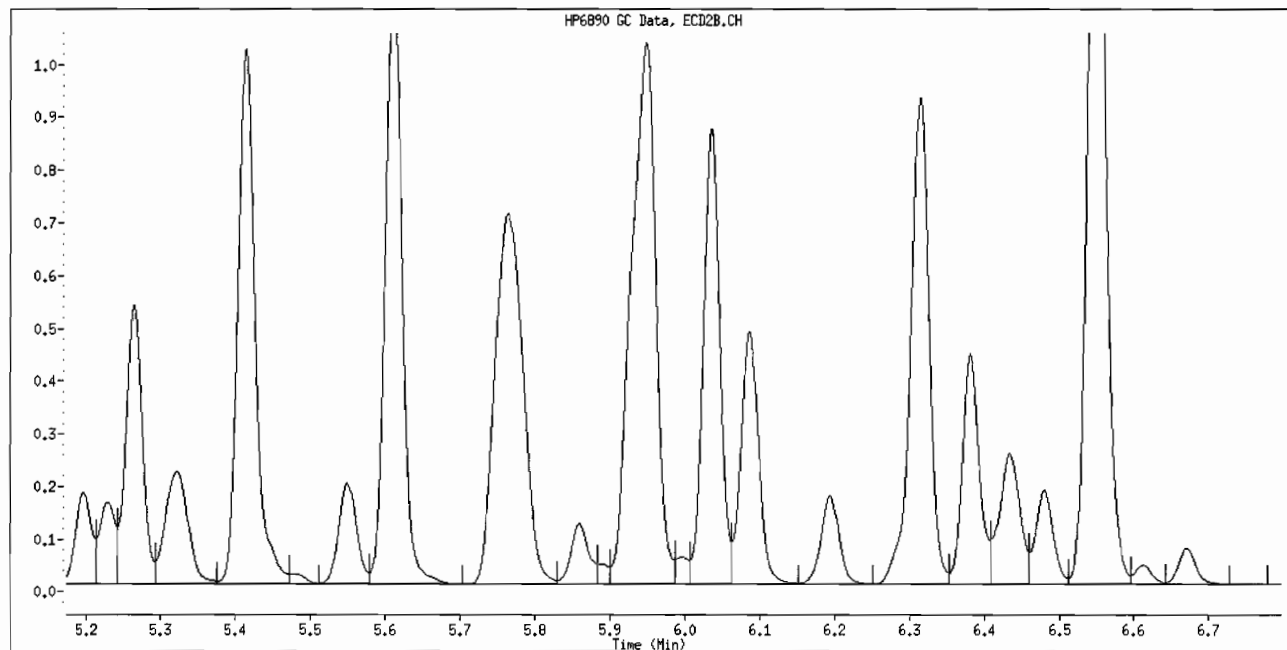
Inj. Date and Time: 26-MAR-2010 11:59

Instrument ID: Gcv.i

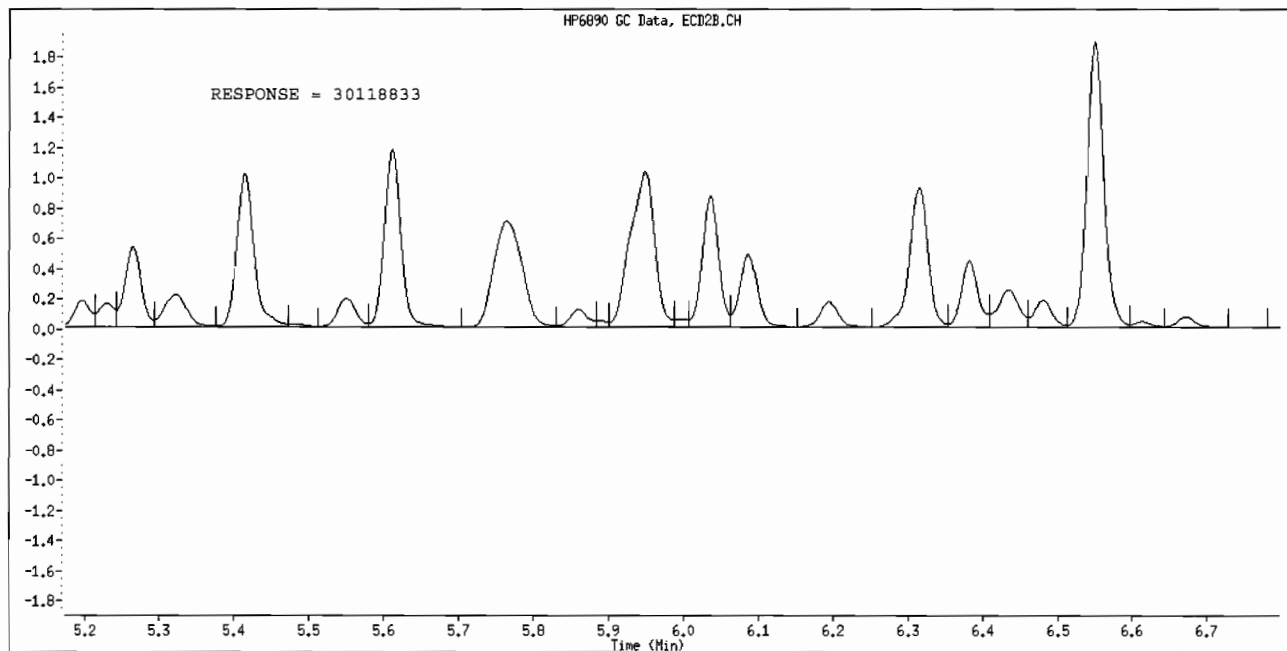
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL906.D

TestAmerica St. Louis

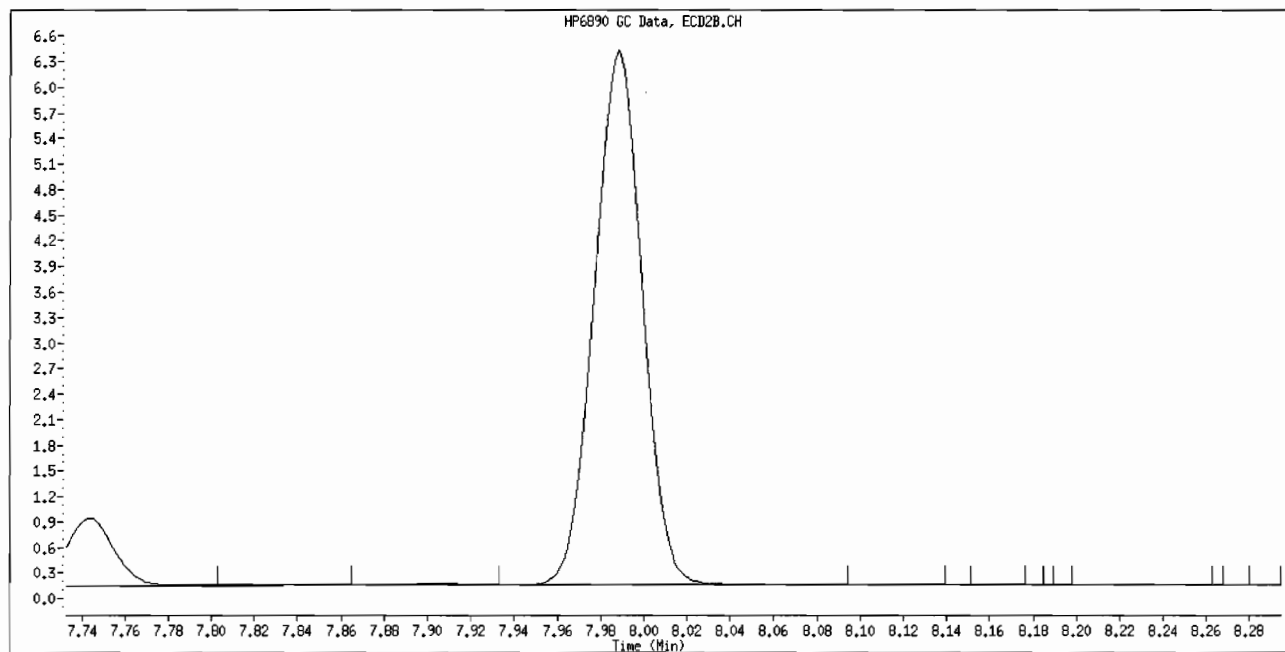
Inj. Date and Time: 26-MAR-2010 11:59

Instrument ID: Gcv.i

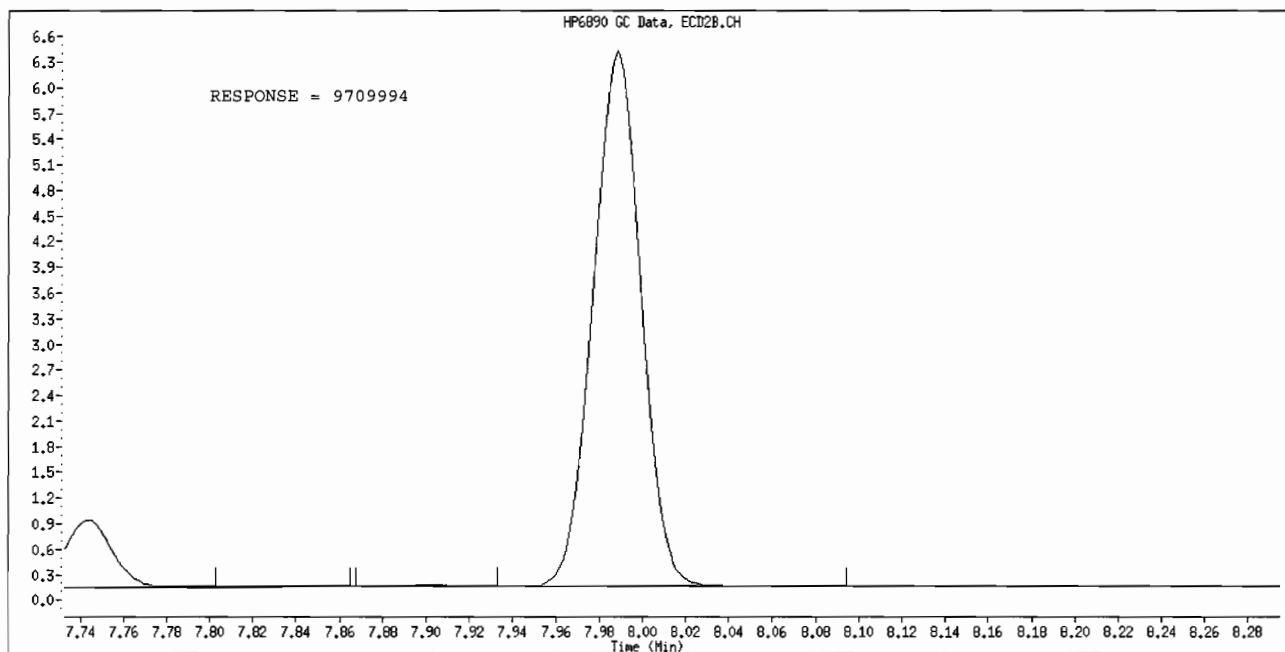
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VICV907.D

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Report Date: 26-Mar-2010 14:55

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i                      Injection Date: 26-MAR-2010 12:17  
 Lab File ID: VICV907.D                  Init. Cal. Date(s): 26-MAR-2010    26-MAR-2010  
 Analysis Type: SOIL                      Init. Cal. Times:    09:49                  11:59  
 Lab Sample ID: ICV                        Quant Type:    ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
22 Aroclor-1016(1)	2054	1976	0.010	3.75662	20.00000		Averaged
(2)	4137	3889	0.010	5.97726	20.00000		Averaged
(3)	8101	8157	0.010	-0.69939	20.00000		Averaged
(4)	3327	3271	0.010	1.69494	20.00000		Averaged
(5)	2516	2468	0.010	1.89564	20.00000		Averaged
28 Aroclor-1260(1)	4708	4566	0.010	3.00257	20.00000		Averaged
(2)	5110	4851	0.010	5.05449	20.00000		Averaged
(3)	6444	6280	0.010	2.54033	20.00000		Averaged
(4)	4193	4107	0.010	2.05179	20.00000		Averaged
(5)	7897	7885	0.010	0.15366	20.00000		Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VICV907.D  
 Report Date: 26-Mar-2010 14:55

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VICV907.D  
 Lab Smp Id: ICV  
 Inj Date : 26-MAR-2010 12:17  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : ICV  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 14:54 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 11:03 Cal File: VCAL903.D  
 Als bottle: 11 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: ICV.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.805	2.805	0.000	1976464	1000.00	962.4 80.00- 120.00	100.00 (M)
3.190	3.190	0.000	3889398	1000.00	940.2 39.36- 354.21	196.79	
3.630	3.630	0.000	8157358	1000.00	1007 82.54- 742.90	412.72	
3.760	3.760	0.000	3270952	1000.00	983.0 33.10- 297.89	165.50	
4.208	4.206	0.002	2467935	1000.00	981.0 24.97- 224.76	124.87	
Average of Peak Amounts =				974.720			

CAS #: 12674-11-2

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.411	5.411	0.000	4566239	1000.00	970.0 80.00- 120.00	100.00 (M)
5.608	5.608	0.000	4851499	1000.00	949.4 21.25- 191.24	106.25	
5.946	5.946	0.000	6280398	1000.00	974.6 27.51- 247.57	137.54	
6.311	6.311	0.000	4107039	1000.00	979.5 17.99- 161.90	89.94	
6.546	6.546	0.000	7885026	1000.00	998.5 34.54- 310.83	172.68	
Average of Peak Amounts =				974.400			

CAS #: 11096-82-5



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VICV907.D  
Report Date: 26-Mar-2010 14:55

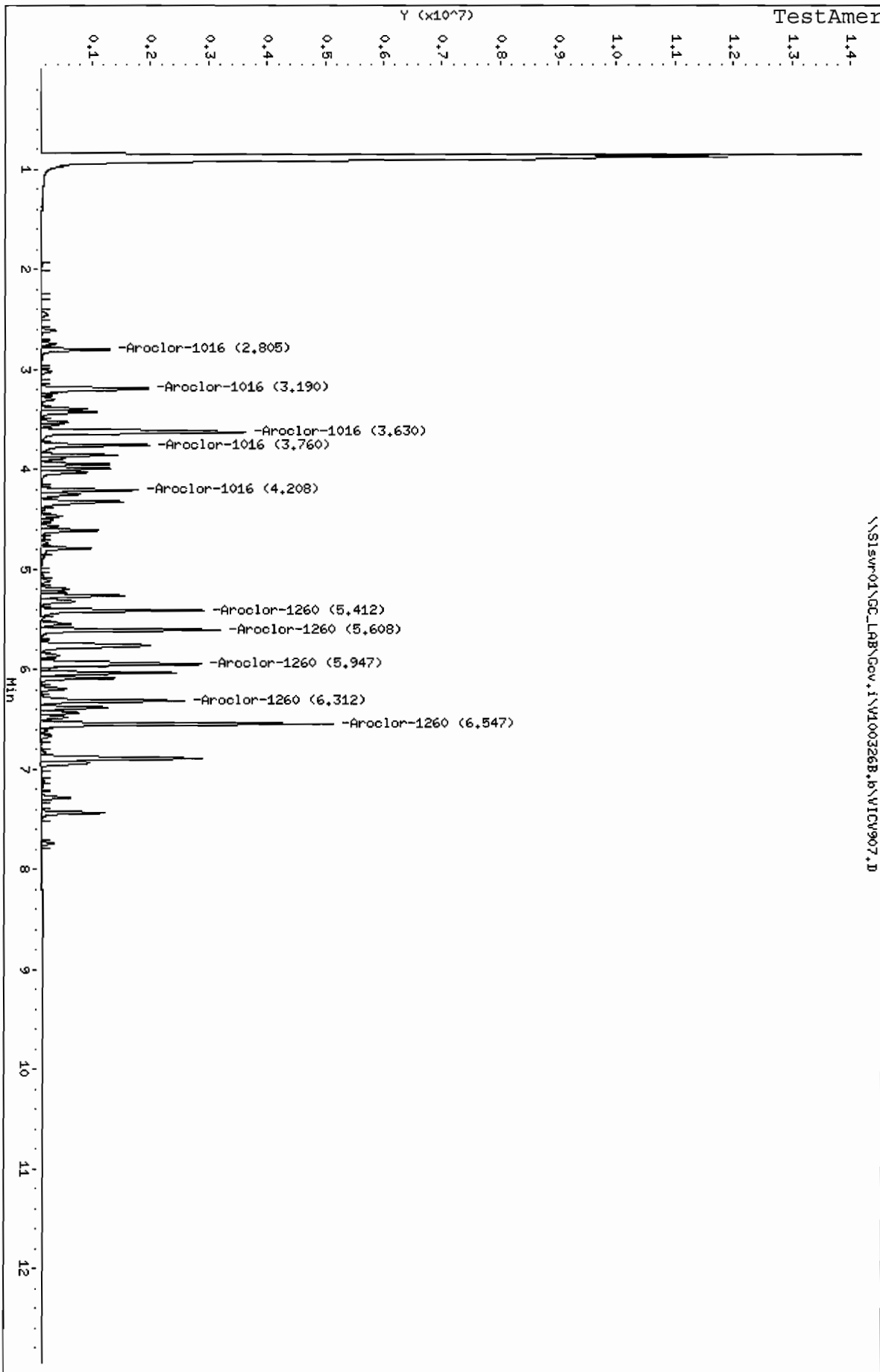
TestAmerica St. Louis  
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gov.i\11003268.b\VICW907.D  
Date: 26-MAR-2010 12:17  
Client ID:  
Sample Info: ICV  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VICV907.D  
Analysis Type: SOIL

Injection Date: 26-MAR-2010 12:17  
Lab Sample ID: ICV  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
385875968 Aroclor-1016	1000.0000	974.7499	2.5	20.0
486539264 Aroclor-1260	1000.0000	974.3943	2.6	20.0

Data File Name: VICV907.D

Inj. Date and Time: 26-MAR-2010 12:17

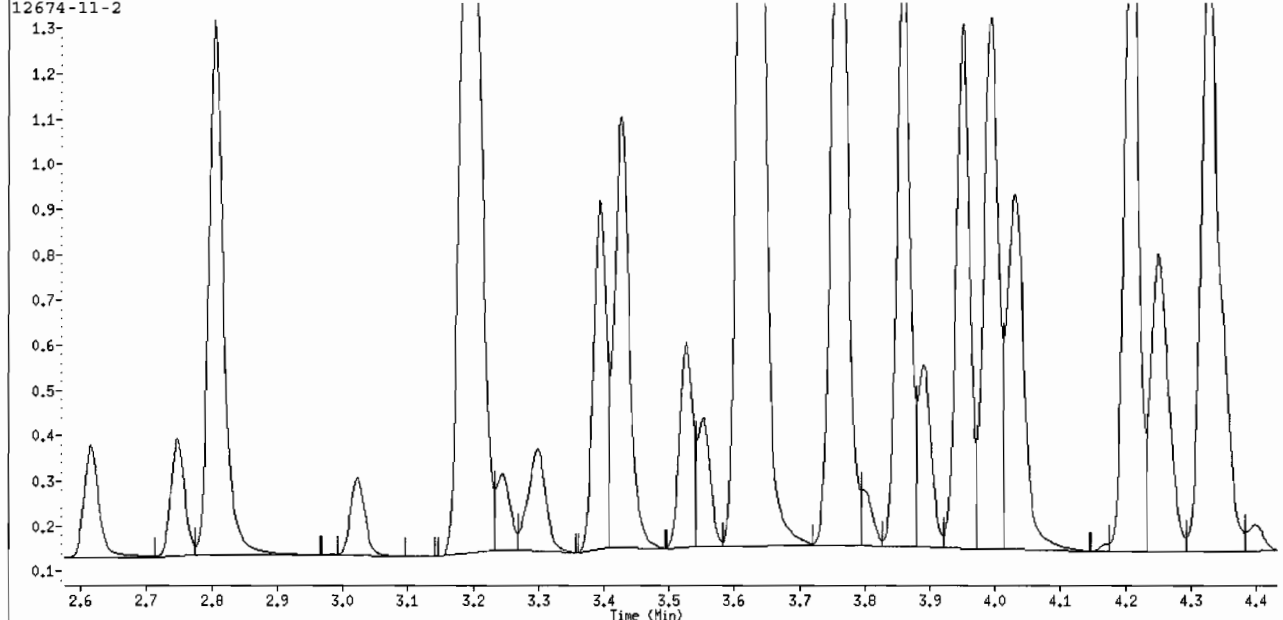
Instrument ID: Gcv.i

Client ID:

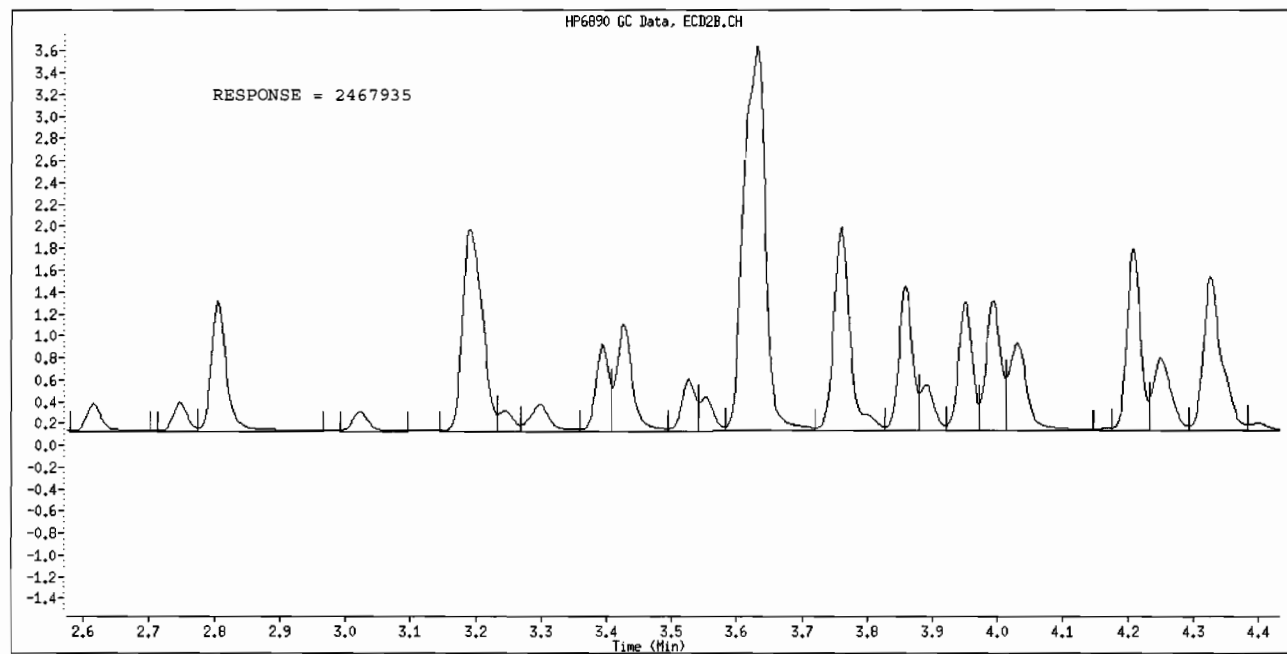
Compound Name: Aroclor-1016

CAS #: 12674-11-2

HP6890 GC Data, ECD2B.CH



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

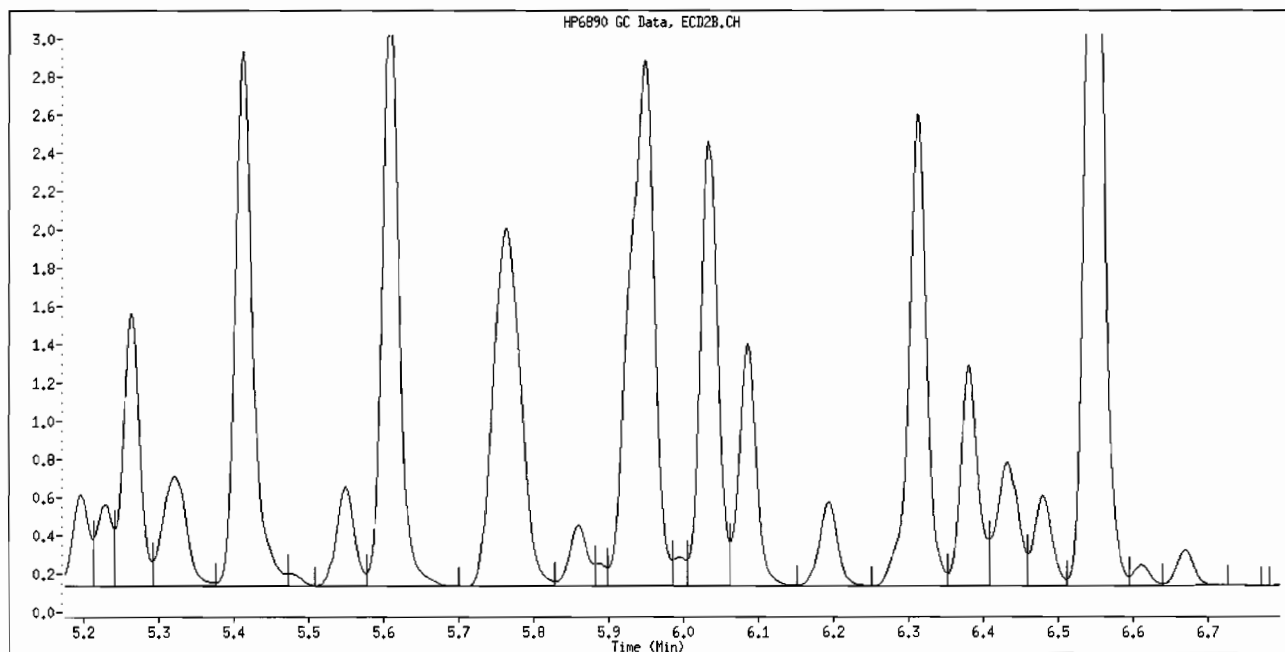
Inj. Date and Time: 26-MAR-2010 12:17

Instrument ID: Gcv.i

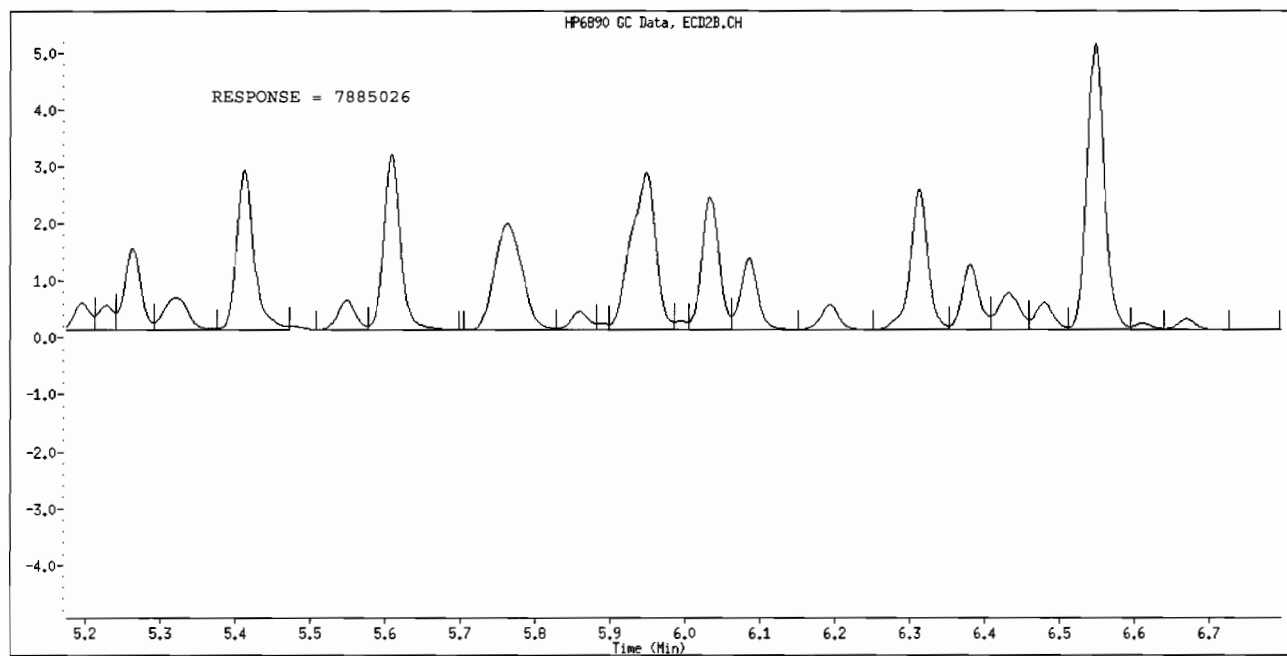
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL908.D  
 Lab Smp Id: 1232  
 Inj Date : 26-MAR-2010 12:36  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : 1232  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 15:21 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 12:36 Cal File: VCAL908.D  
 Als bottle: 12 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1232.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

AMOUNTS

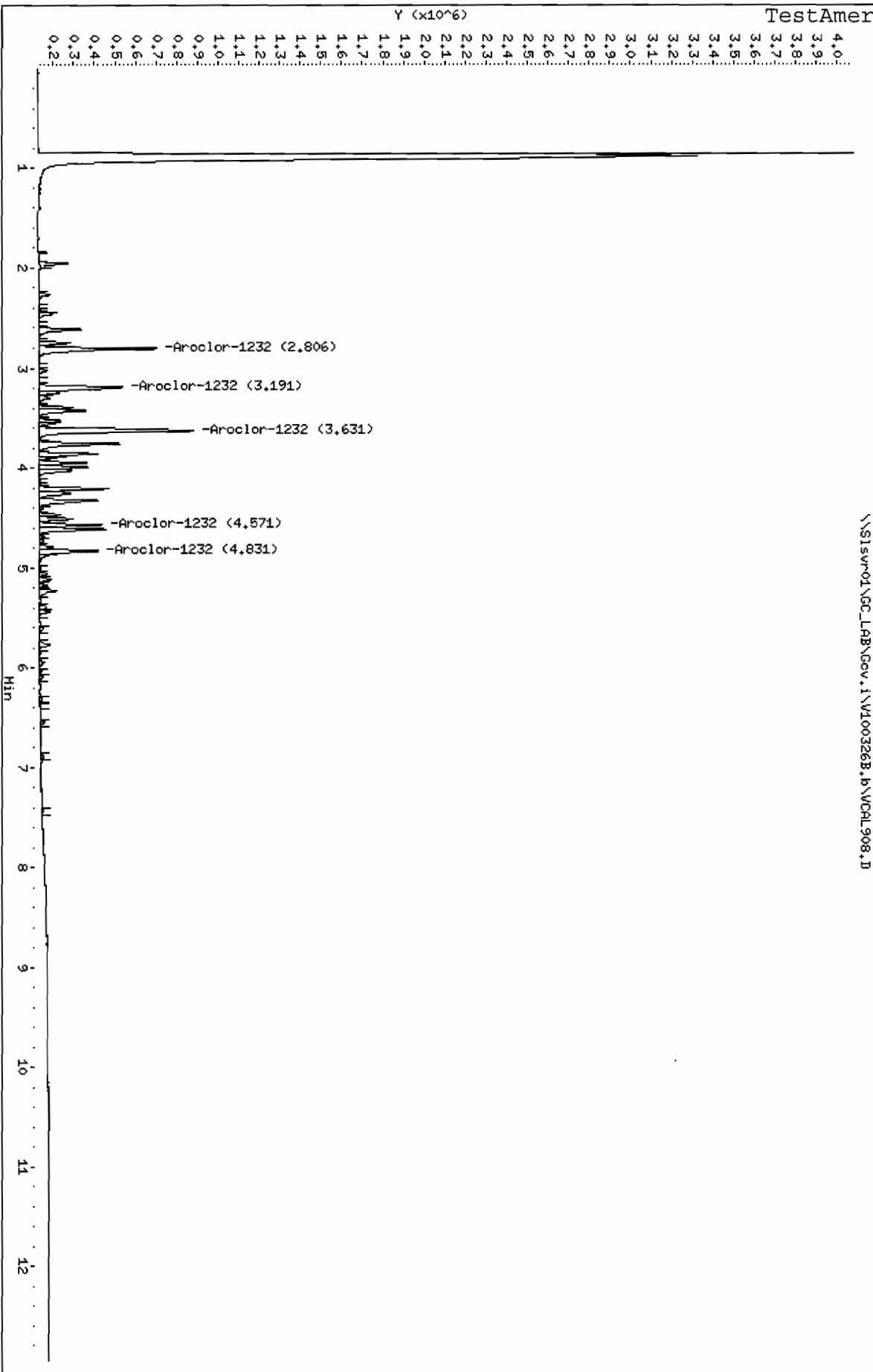
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
24	Aroclor-1232				CAS #: 1114-16-5	
2.806	2.806	0.000	1105854	500.000	500.0 20.00- 180.00	100.00 (M)
3.191	3.191	0.000	963476	500.000	500.0 17.43- 156.83	87.13
3.631	3.631	0.000	1828592	500.000	500.0 33.07- 297.64	165.36
4.571	4.571	0.000	489663	500.000	500.0 8.86- 79.70	44.28
4.831	4.831	0.000	544388	500.000	500.0 9.85- 88.61	49.23
Average of Peak Amounts =			500.000			

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100326B.b\WCAL908.D  
 Date : 26-MAR-2010 12:36  
 Client ID:  
 Sample Info: 1232  
 Volume Injected (uL): 2.0  
 Column phase: QLPST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



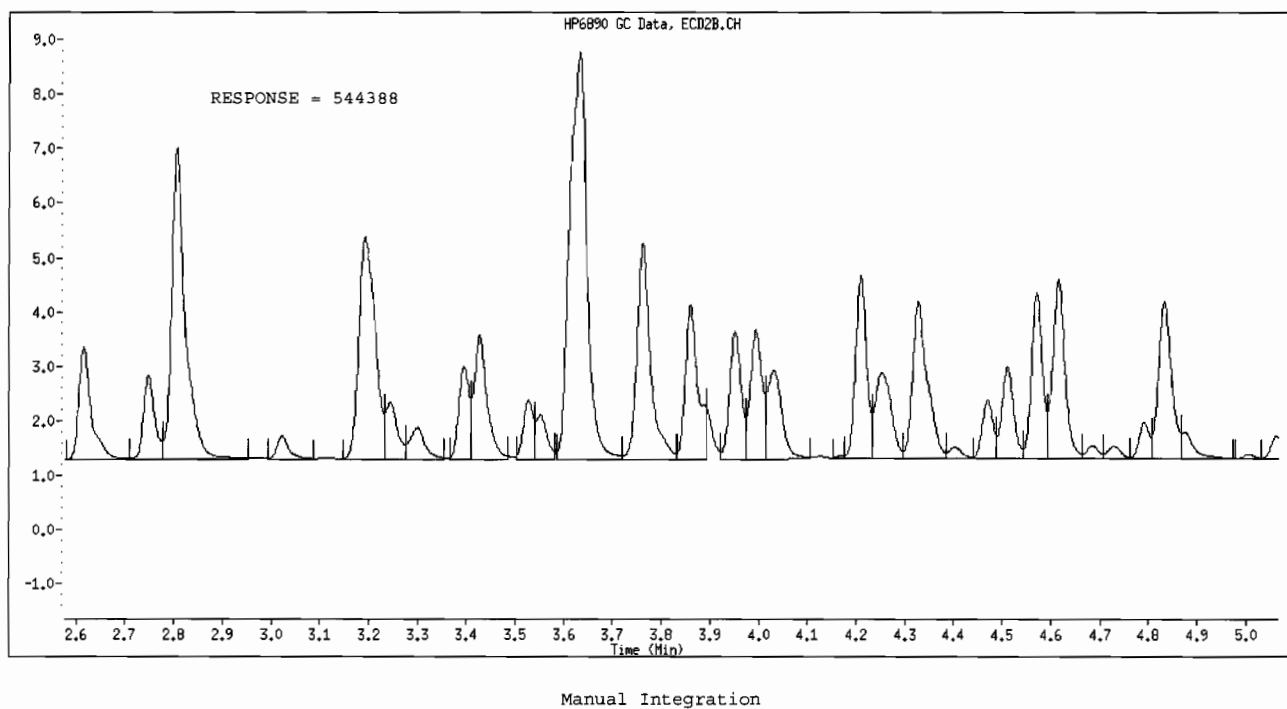
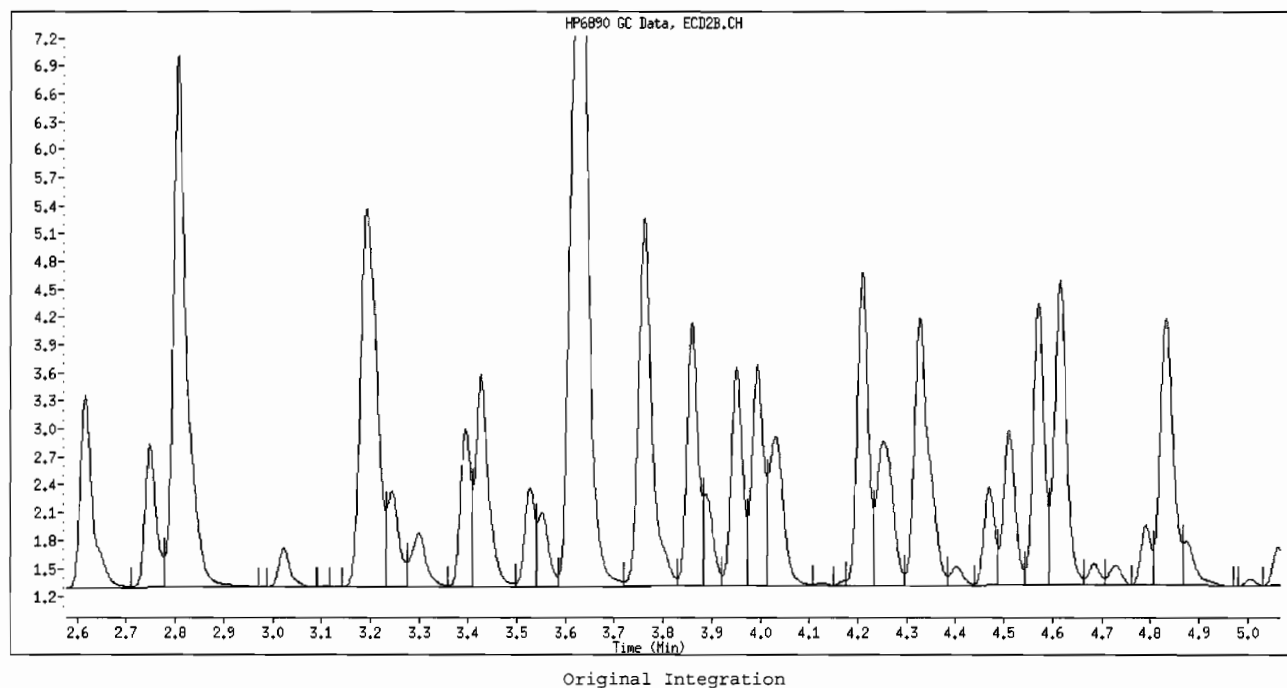
Inj. Date and Time: 26-MAR-2010 12:36

Instrument ID: Gcv.i

Client ID:

Compound Name: Aroclor-1232

CAS #: 1114-16-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL909.D  
 Report Date: 26-Mar-2010 15:23

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL909.D  
 Lab Smp Id: 1242  
 Inj Date : 26-MAR-2010 12:54  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : 1242  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 15:21 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 12:54 Cal File: VCAL909.D  
 Als bottle: 13 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1242.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

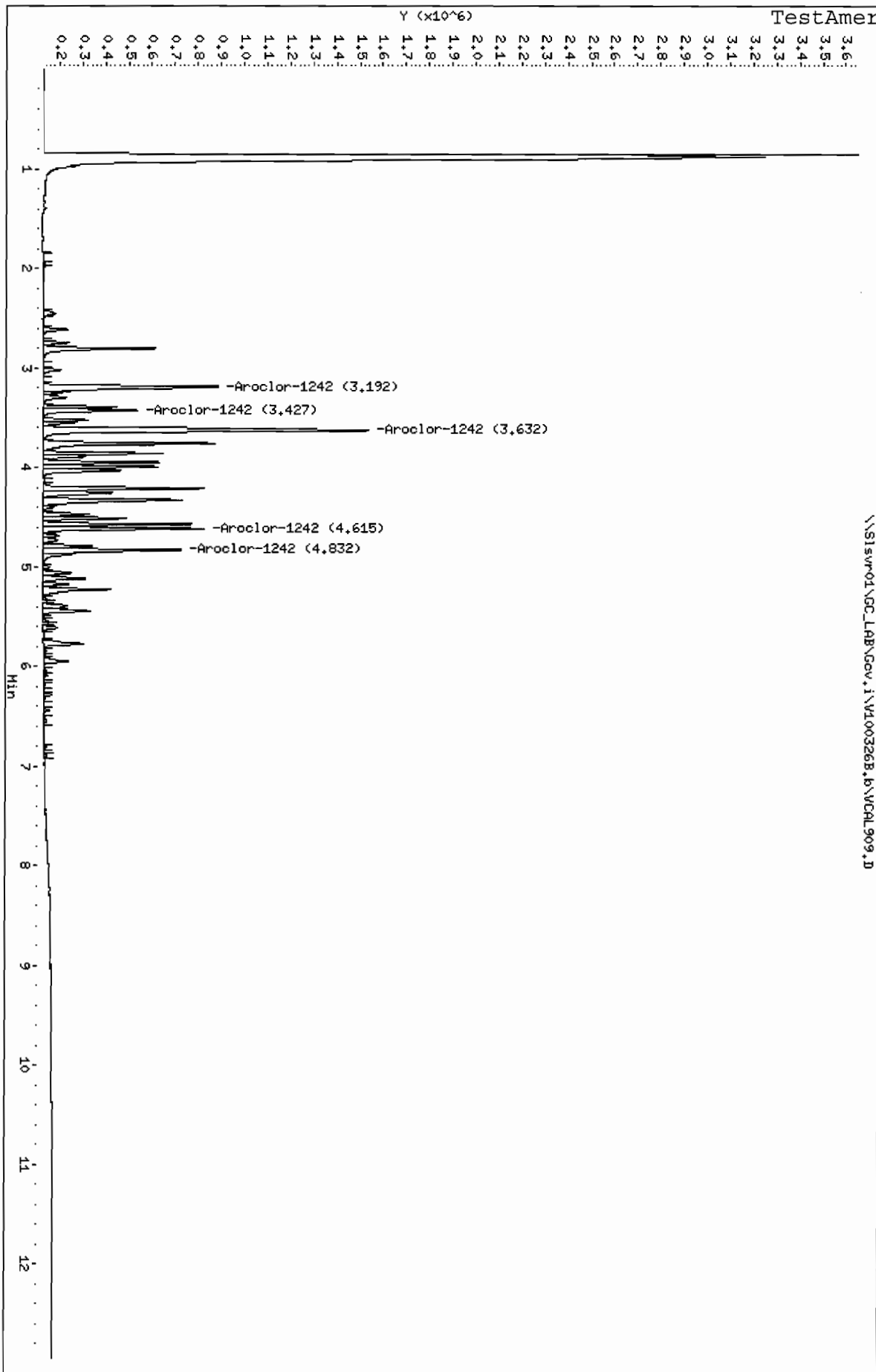
		AMOUNTS						
		CAL-AMT	ON-COL					
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE			RATIO
====	=====	=====	=====	=====	=====			=====
25 Aroclor-1242			CAS #: 53469-21-9					
3.191	3.191	0.000	1642123 500.000	500.0	20.00- 180.00			100.00(M)
3.426	3.426	0.000	695059 500.000	500.0	8.47- 76.19			42.33
3.631	3.631	0.000	3291214 500.000	500.0	40.08- 360.76			200.42
4.615	4.615	0.000	1147503 500.000	500.0	13.98- 125.78			69.88
4.831	4.831	0.000	1115028 500.000	500.0	13.58- 122.22			67.90
Average of Peak Amounts =			500.000					

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\W100326B.b\WCAL909.D  
 Date: 26-Mar-2010 12:54  
 Client ID:  
 Sample Info: 1242  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: VCAL909.D

TestAmerica St. Louis

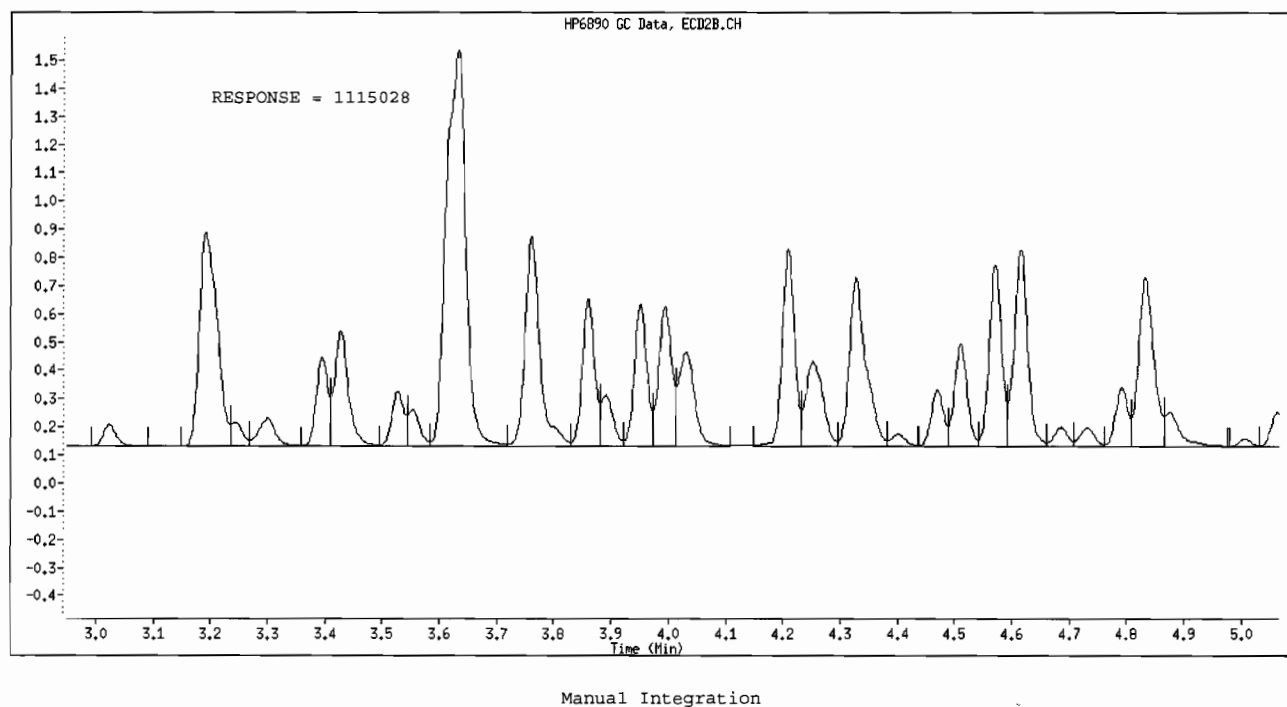
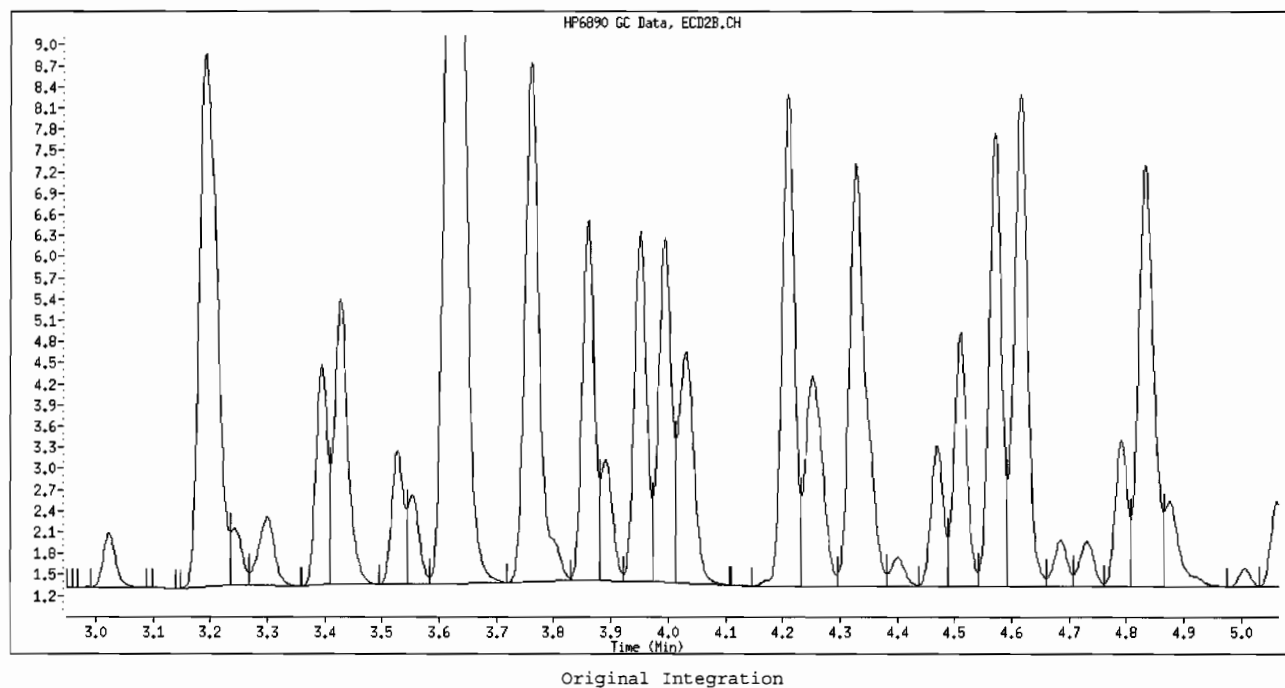
Inj. Date and Time: 26-MAR-2010 12:54

Instrument ID: Gcv.i

Client ID:

Compound Name: Aroclor-1242

CAS #: 53469-21-9



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL910.D

Page 1

Report Date: 26-Mar-2010 15:23

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL910.D

Lab Smp Id: 1248

Inj Date : 26-MAR-2010 13:13

Operator : DEK

Inst ID: Gcv.i

Smp Info : 1248

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m

Meth Date : 26-Mar-2010 15:21 target

Quant Type: ESTD

Cal Date : 26-MAR-2010 13:13

Cal File: VCAL910.D

Als bottle: 14

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1248.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$ 

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
26	Aroclor-1248				CAS #: 12672-29-6	
3.949	3.949	0.000	1269244 500.000	500.0	20.00- 180.00	100.00 (M)
4.207	4.207	0.000	1602189 500.000	500.0	25.25- 227.22	126.23
4.326	4.326	0.000	1737950 500.000	500.0	27.39- 246.47	136.93
4.612	4.612	0.000	1942547 500.000	500.0	30.61- 275.49	153.05
4.831	4.831	0.000	1784552 500.000	500.0	28.12- 253.08	140.60
Average of Peak Amounts =			500.000			

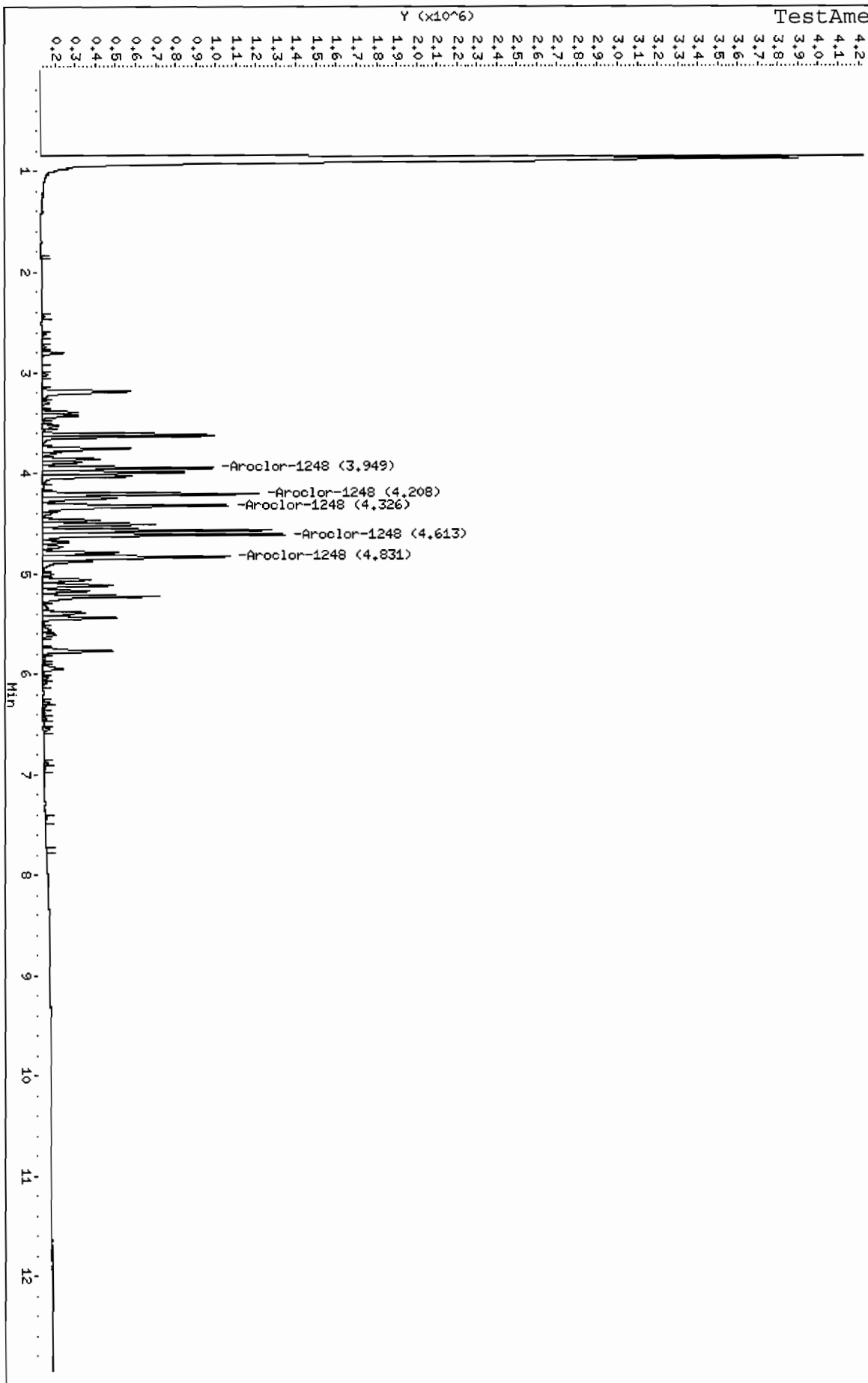
## QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gov.i\W100326B.b\W0AL910.D  
Date: 26-MAR-2010 13:13  
Client ID:  
Sample Info: 1248  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

\\S1swr01\GC\_LAB\Gov.i\W100326B.b\W0AL910.D



Data File Name: VCAL910.D

TestAmerica St. Louis

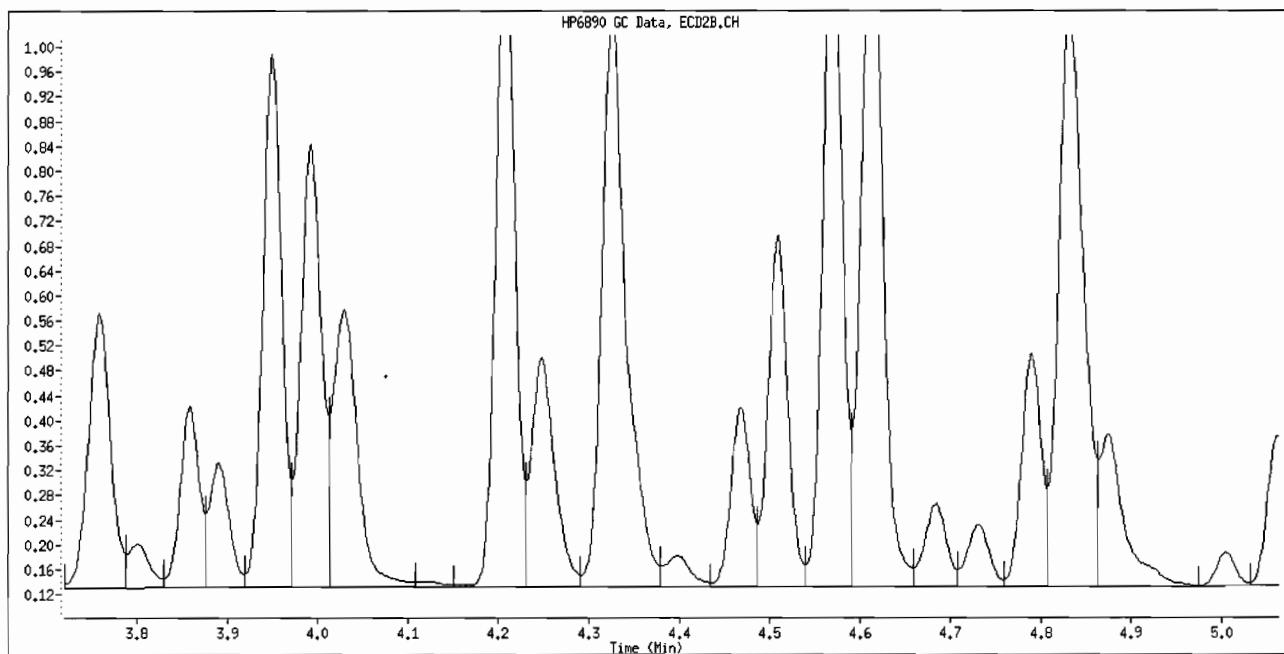
Inj. Date and Time: 26-MAR-2010 13:13

Instrument ID: Gcv.i

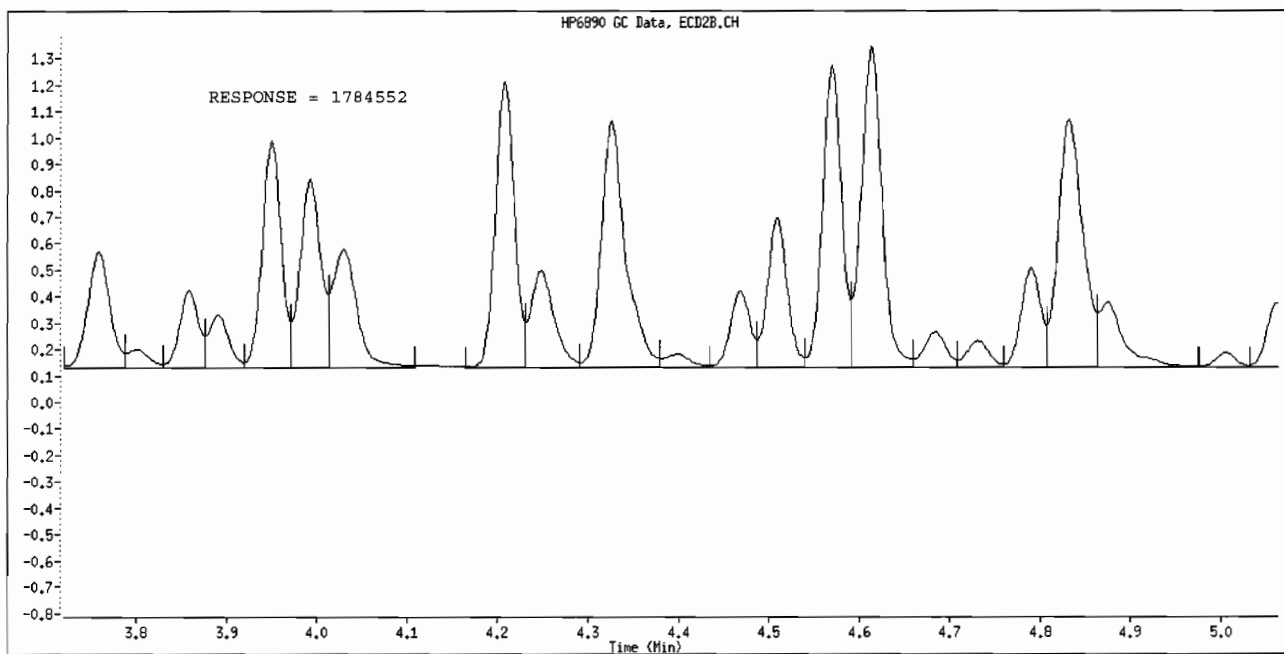
Client ID:

Compound Name: Aroclor-1248

CAS #: 12672-29-6



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL911.D  
 Report Date: 26-Mar-2010 15:24

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL911.D  
 Lab Smp Id: 1221/1254  
 Inj Date : 26-MAR-2010 13:31  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : 1221/1254  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m  
 Meth Date : 26-Mar-2010 15:21 target Quant Type: ESTD  
 Cal Date : 26-MAR-2010 13:31 Cal File: VCAL911.D  
 Als bottle: 15 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar2154.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
-----						
23 Aroclor-1221			CAS #: 11104-28-2			
1.954	1.954	0.000	441967 500.000	500.0	20.00- 180.00	100.00 (M)
2.616	2.616	0.000	583065 500.000	500.0	26.39- 237.47	131.93
2.806	2.806	0.000	1304945 500.000	500.0	59.05- 531.47	295.26
Average of Peak Amounts =			500.000			

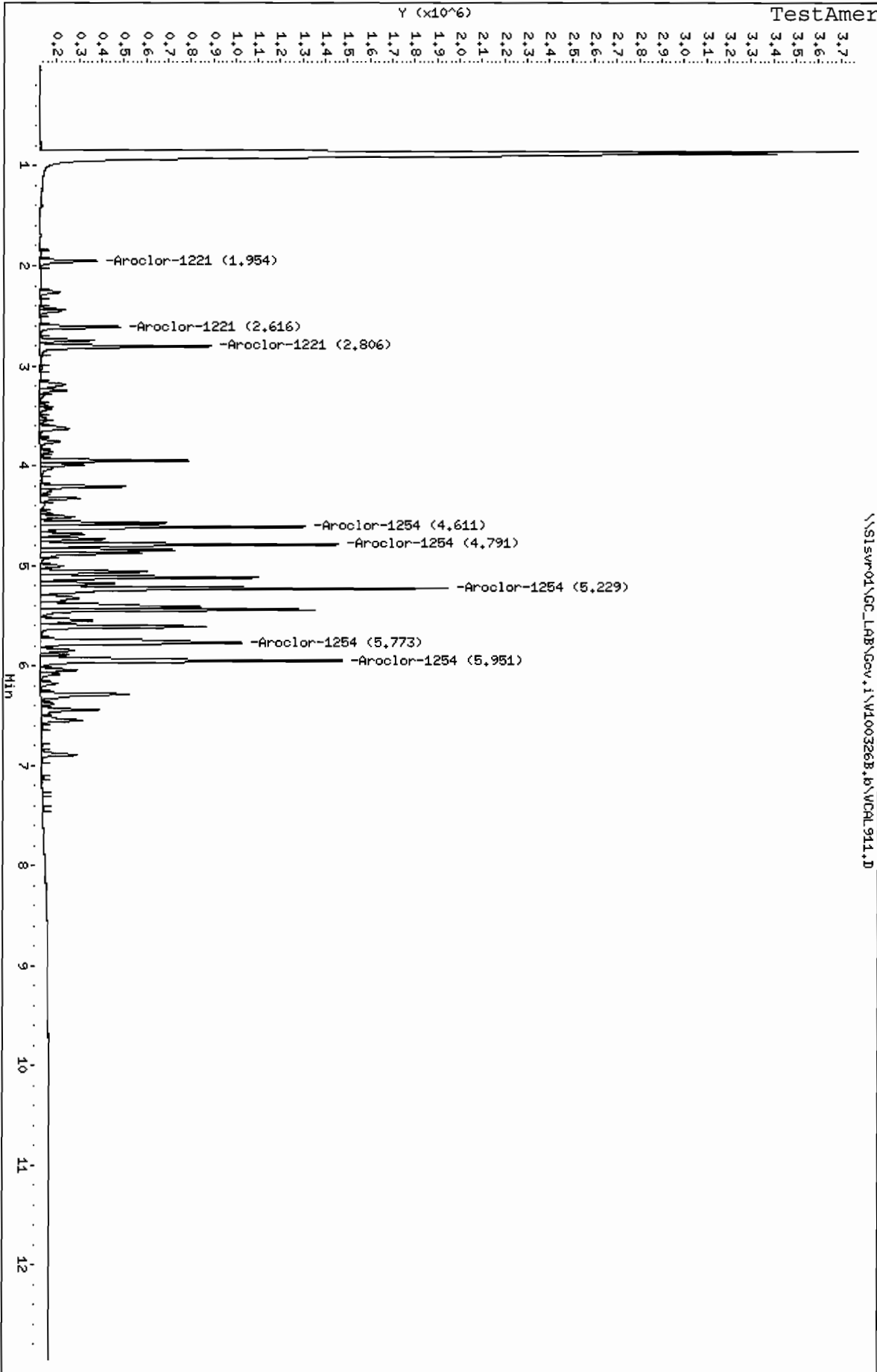
27 Aroclor-1254			CAS #: 11097-69-1			
4.611	4.611	0.000	1877182 500.000	500.0	20.00- 180.00	100.00 (M)
4.791	4.791	0.000	2016638 500.000	500.0	21.49- 193.37	107.43
5.229	5.229	0.000	3097121 500.000	500.0	33.00- 296.98	164.99
5.772	5.772	0.000	2222366 500.000	500.0	23.68- 213.10	118.39
5.951	5.951	0.000	2667385 500.000	500.0	28.42- 255.77	142.10
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsivr01\GC\_LAB\Gov.i\W100326B.b\WCAL911.D  
 Date : 26-MAR-2010 13:31  
 Client ID:  
 Sample Info: 1221/1254  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53





Data File Name: VCAL911.D

TestAmerica St. Louis

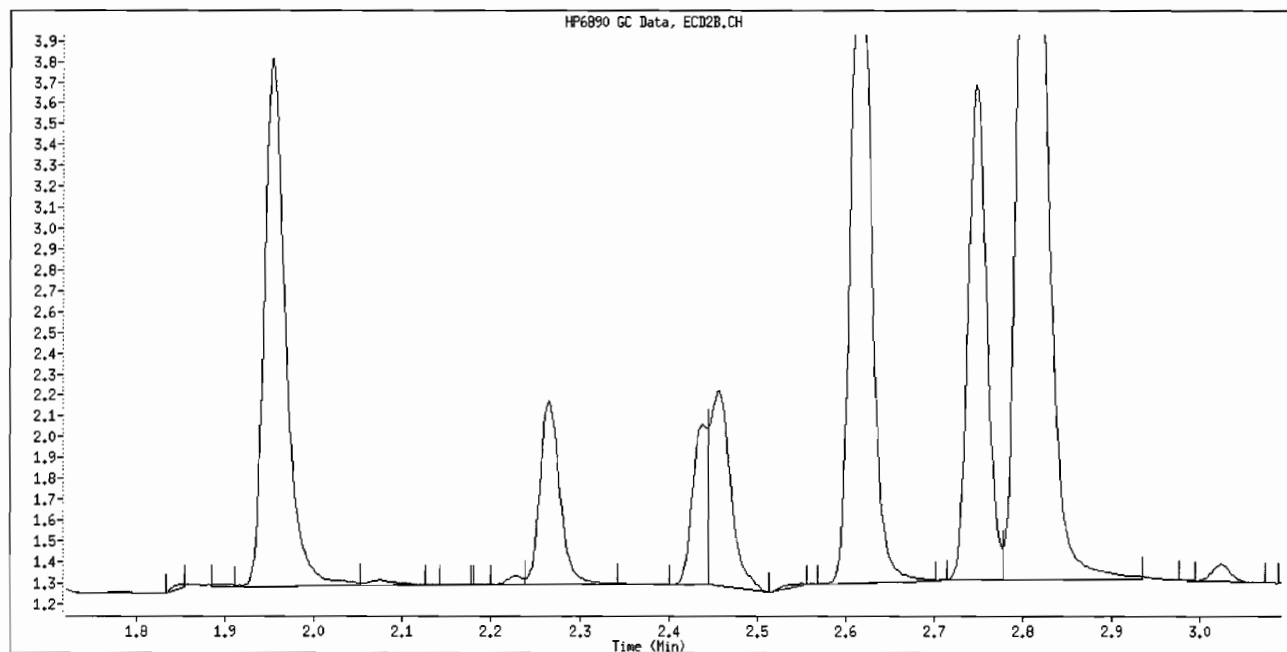
Inj. Date and Time: 26-MAR-2010 13:31

Instrument ID: Gcv.i

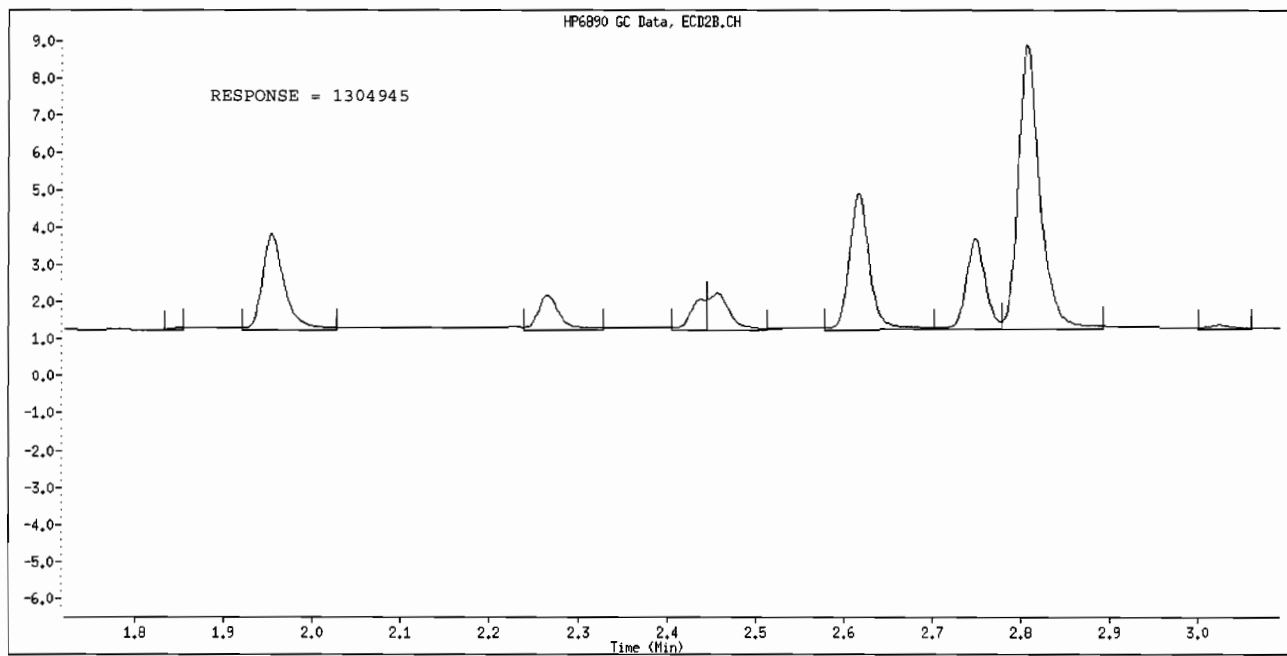
Client ID:

Compound Name: Aroclor-1221

CAS #: 11104-28-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

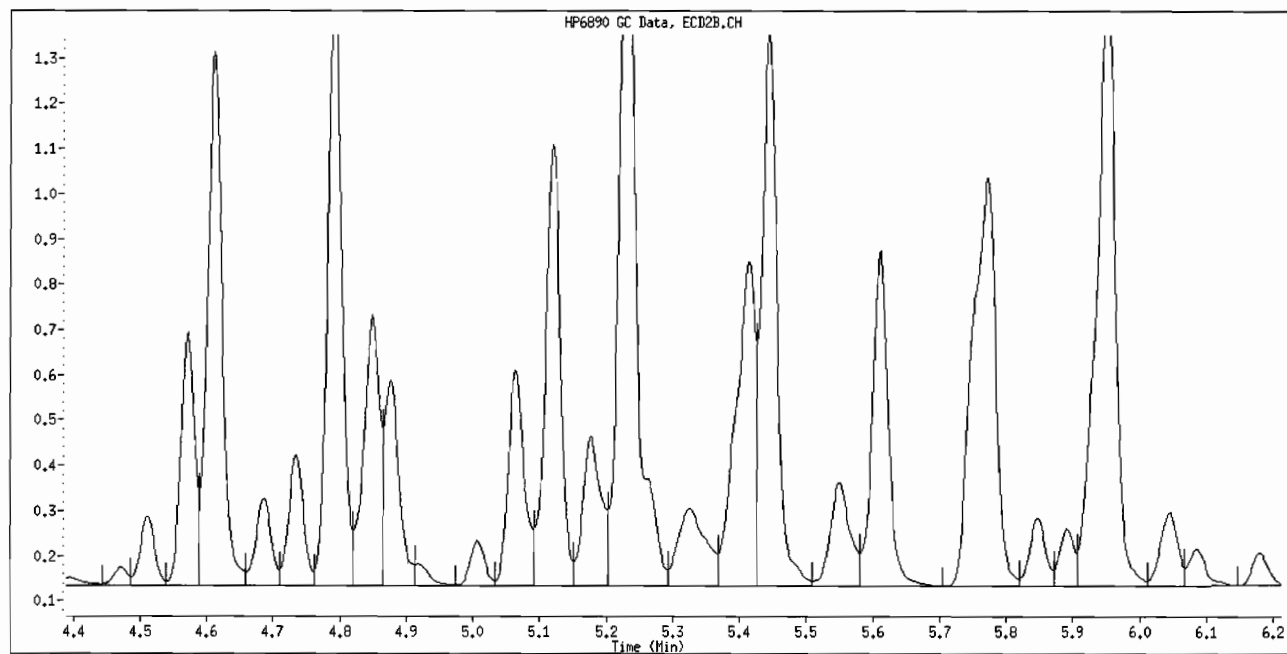
Inj. Date and Time: 26-MAR-2010 13:31

Instrument ID: Gcv.i

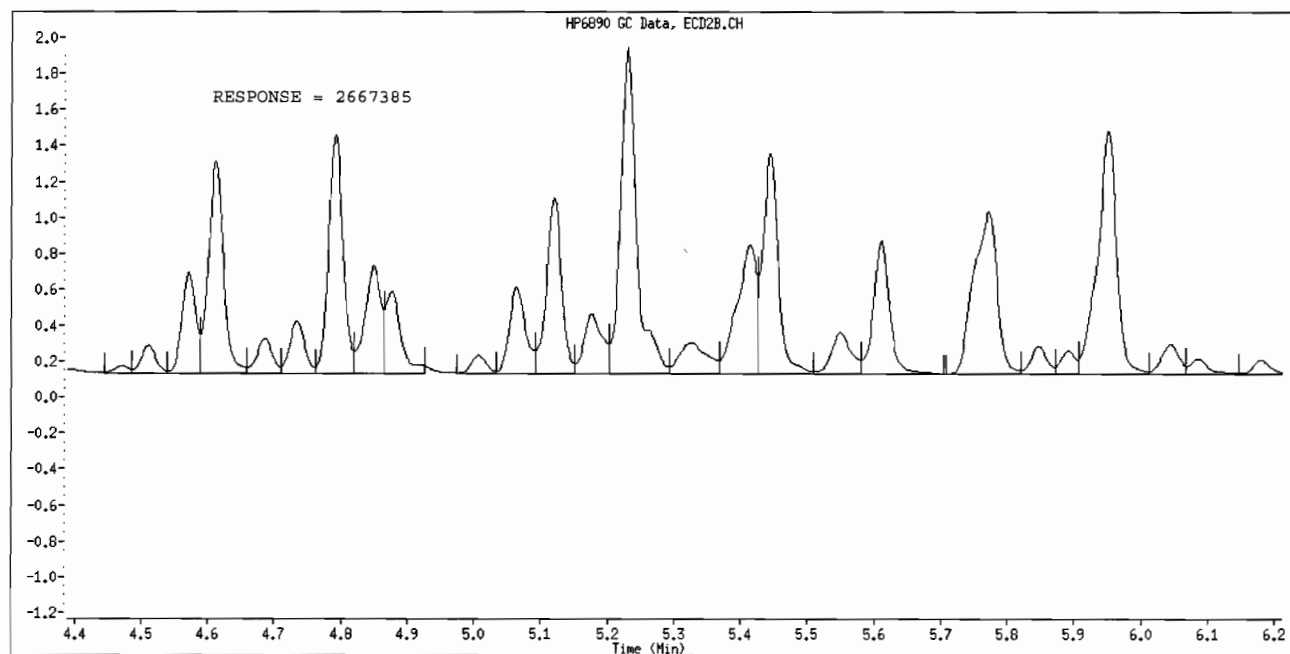
Client ID:

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL912.D

Page 1

Report Date: 26-Mar-2010 15:24

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL912.D

Lab Smp Id: 1262

Inj Date : 26-MAR-2010 13:50

Operator : DEK

Inst ID: Gcv.i

Smp Info : 1262

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m

Meth Date : 26-Mar-2010 15:21 target

Quant Type: ESTD

Cal Date : 26-MAR-2010 13:50

Cal File: VCAL912.D

Als bottle: 16

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1262.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

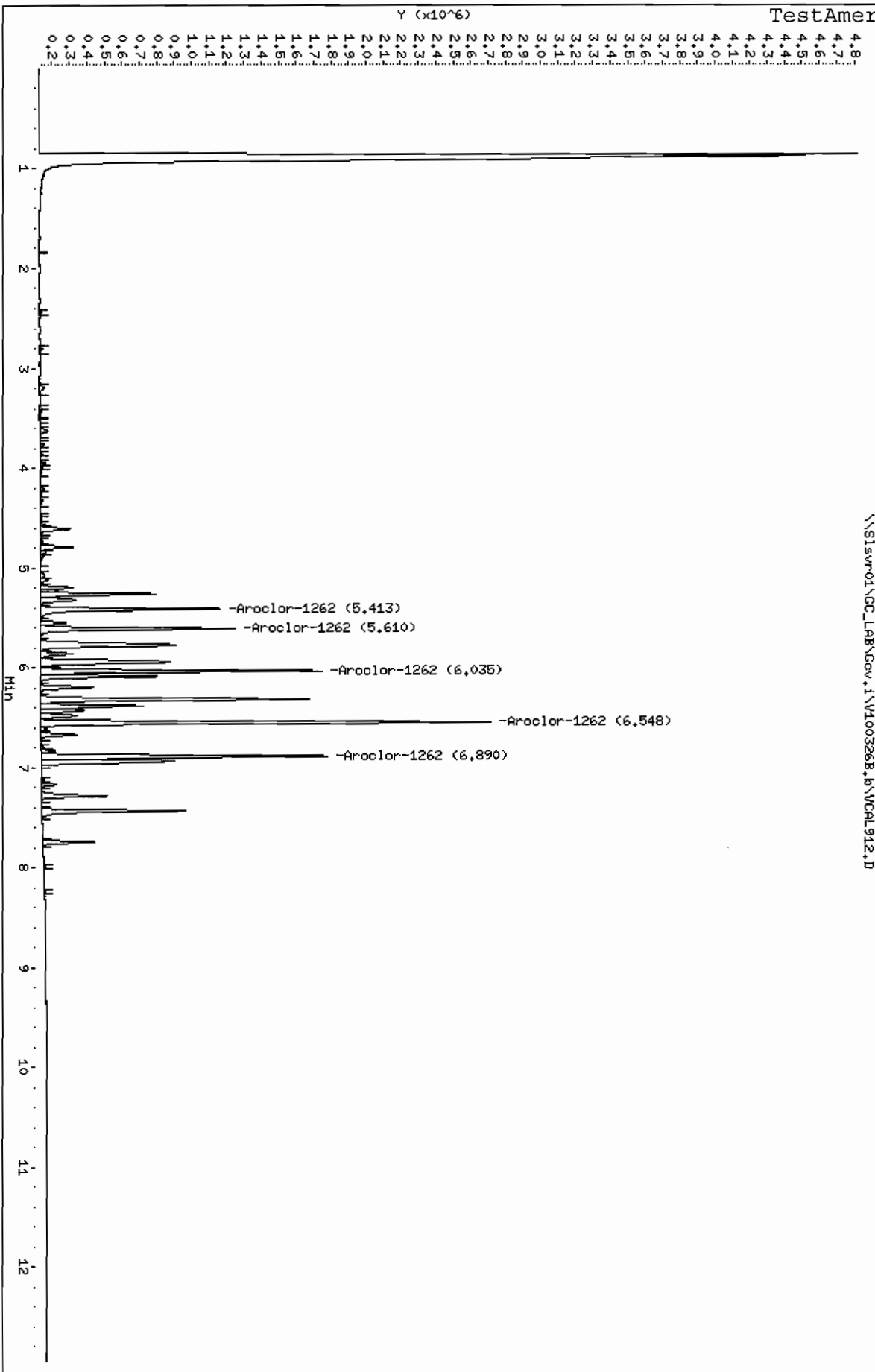
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
35	Aroclor-1262				CAS #: 37324-23-5	
5.413	5.413	0.000	1785650	500.000	500.0 20.00- 180.00	100.00 (M)
5.609	5.609	0.000	1810372	500.000	500.0 20.28- 182.49	101.38
6.034	6.034	0.000	2550064	500.000	500.0 28.56- 257.06	142.81
6.548	6.548	0.000	4090234	500.000	500.0 45.81- 412.31	229.06
6.889	6.889	0.000	3022782	500.000	500.0 33.86- 304.71	169.28
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\DC\_LAB\Gov.i\1\1003268.b\WCAL912.D  
Date: 26-MAR-2010 13:50  
Client ID:  
Sample Info: 1262  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



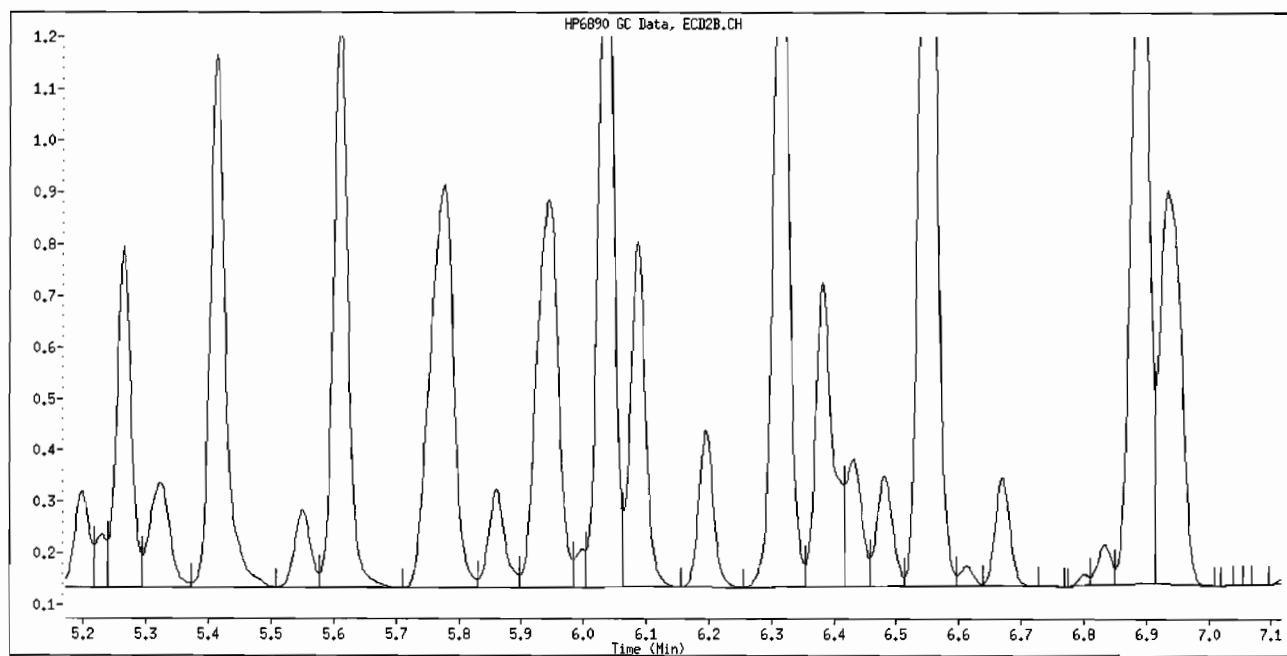
Inj. Date and Time: 26-MAR-2010 13:50

Instrument ID: Gcv.i

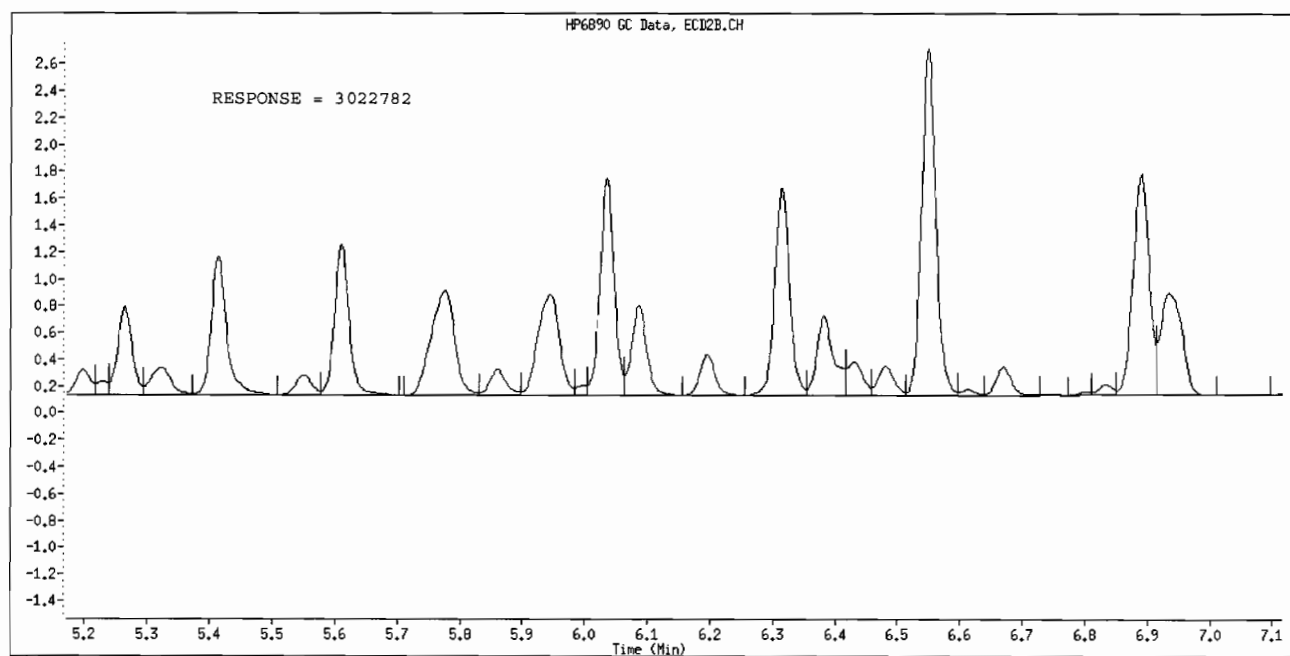
Client ID:

Compound Name: Aroclor-1262

CAS #: 37324-23-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL913.D

Page 1

Report Date: 26-Mar-2010 15:25

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\VCAL913.D

Lab Smp Id: 1268

Inj Date : 26-MAR-2010 14:09

Operator : DEK

Inst ID: Gcv.i

Smp Info : 1268

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcv.i\V100326B.b\8082B.m

Meth Date : 26-Mar-2010 15:21 target Quant Type: ESTD

Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D

Als bottle: 17 Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1268.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

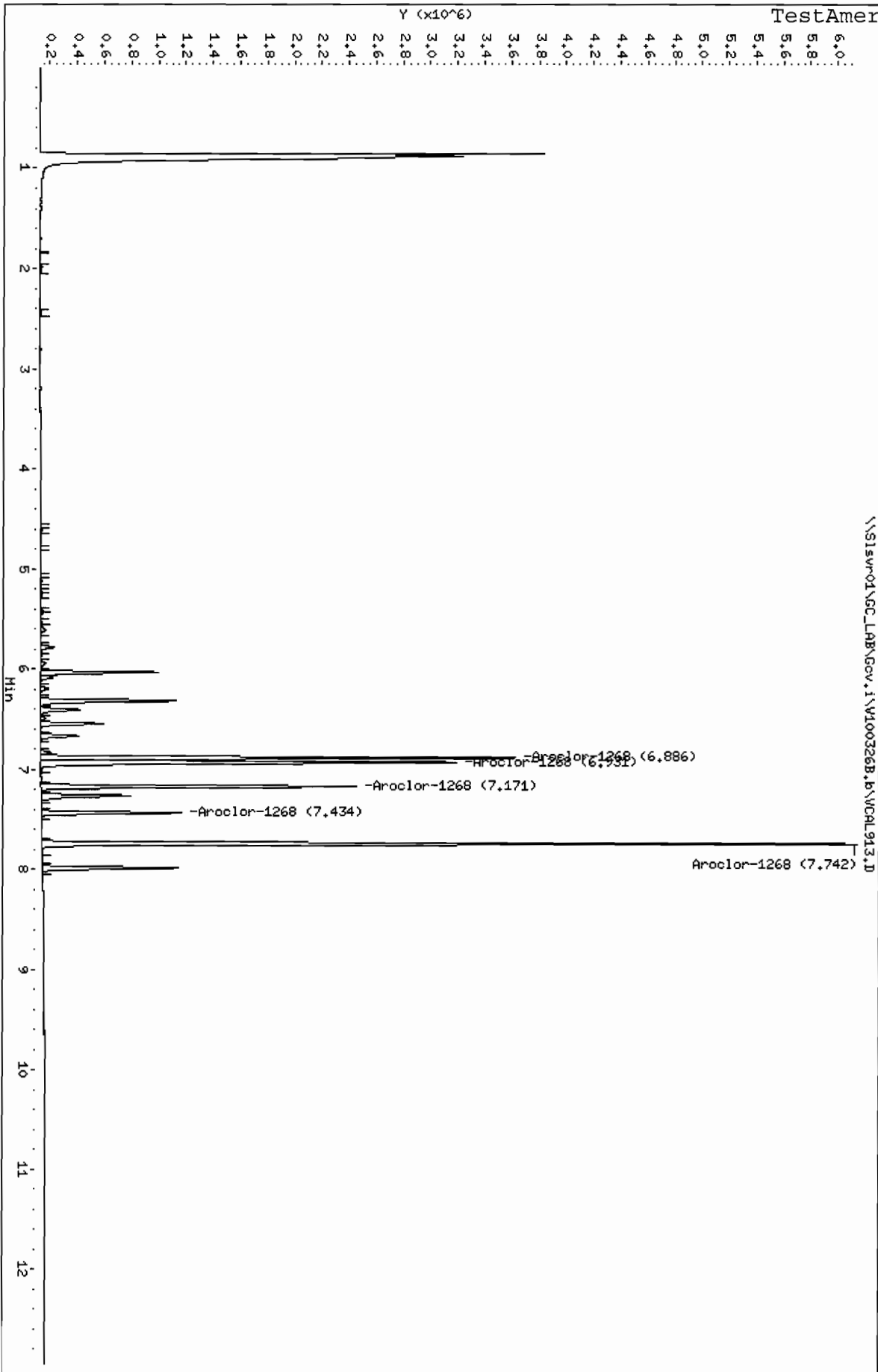
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
36	Aroclor-1268				CAS #: 11100-14-4	
6.885	6.885	0.000	5394775 500.000	500.0	20.00- 180.00	100.00 (M)
6.930	6.930	0.000	5425677 500.000	500.0	20.11- 181.03	100.57
7.170	7.170	0.000	3618830 500.000	500.0	13.42- 120.74	67.08
7.433	7.433	0.000	1599813 500.000	500.0	5.93- 53.38	29.65
7.742	7.742	0.000	9177608 500.000	500.0	34.02- 306.22	170.12
Average of Peak Amounts =			500.000			

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\1003268.b\WCAL913.D  
Date: 26-Mar-2010 14:09  
Client ID:  
Sample Info: 1268  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: VCAL913.D

TestAmerica St. Louis

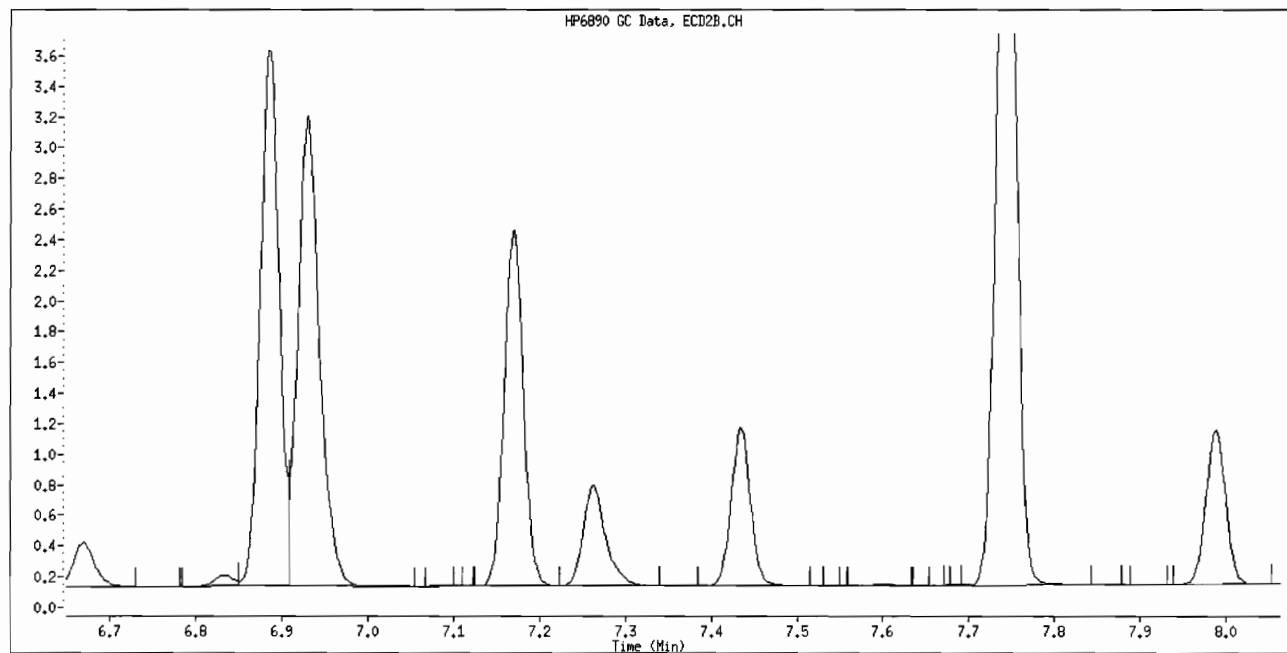
Inj. Date and Time: 26-MAR-2010 14:09

Instrument ID: Gcv.i

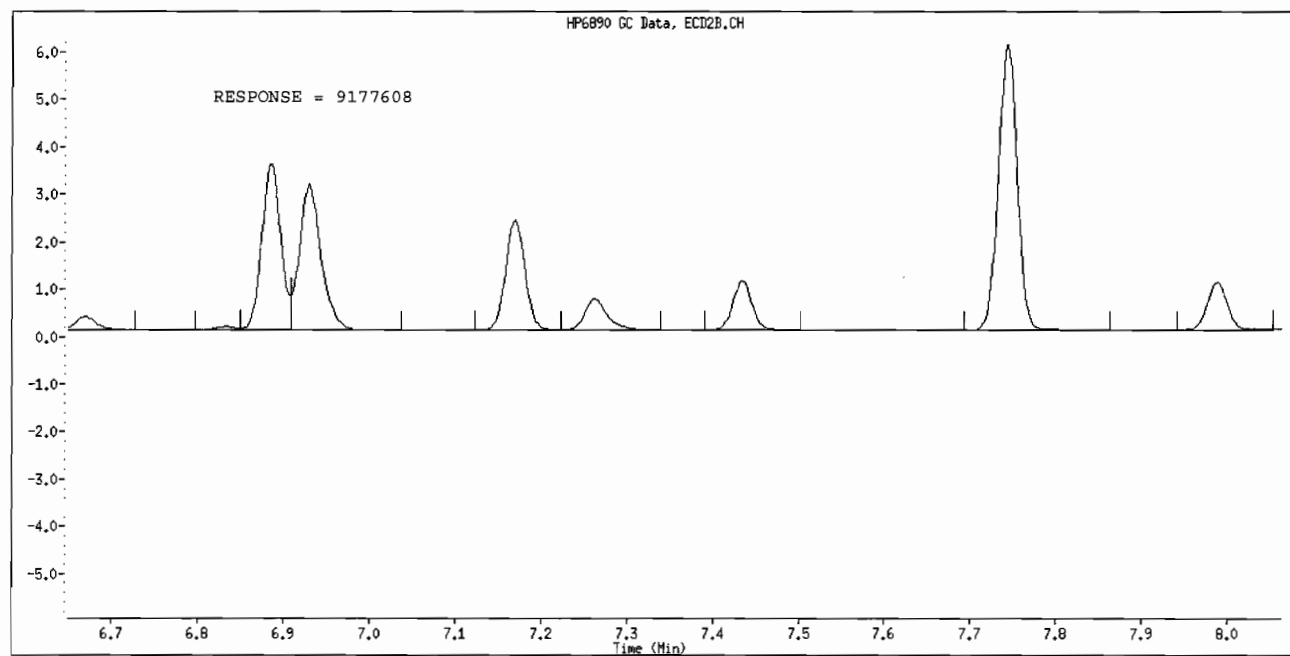
Client ID:

Compound Name: Aroclor-1268

CAS #: 11100-14-4



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL330.D

Page 1

Report Date: 17-Apr-2010 10:24

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 19:34  
 Lab File ID: PCAL330.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 13:54  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
22 Aroclor-1016(1)	2839	2891	0.010	-1.84392	20.00000	Averaged
(2)	5629	5690	0.010	-1.07294	20.00000	Averaged
(3)	11589	12597	0.010	-8.69219	20.00000	Averaged
(4)	4713	4876	0.010	-3.44935	20.00000	Averaged
(5)	4840	5005	0.010	-3.40531	20.00000	Averaged
28 Aroclor-1260(1)	7085	7397	0.010	-4.41013	20.00000	Averaged
(2)	12293	13000	0.010	-5.75343	20.00000	Averaged
(3)	12302	13270	0.010	-7.86265	20.00000	Averaged
(4)	19304	20903	0.010	-8.28530	20.00000	Averaged
(5)	9123	9929	0.010	-8.83350	20.00000	Averaged
\$ 32 Decachlorobiphenyl	136970	154768	0.010	-12.99475	20.00000	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL330.D

Page 1

Report Date: 17-Apr-2010 10:24

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL330.D

Lab Smp Id: CCAL

Inj Date : 16-APR-2010 19:34

Operator : DEK

Inst ID: Gcp.i

Smp Info : CCAL

Misc Info :

Comment :

Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m

Meth Date : 17-Apr-2010 10:24 target Quant Type: ESTD

Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D

Als bottle: 28 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Ar1660.sub

Target Version: 4.14

Sample Matrix: SOIL

Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====

## 22 Aroclor-1016

CAS #: 12674-11-2

1.964	1.965	-0.001	2891239 1000.00	1018 80.00-	120.00	100.00
2.239	2.240	-0.001	5689848 1000.00	1011 157.44-	236.16	196.80
2.624	2.624	0.000	12596647 1000.00	1087 348.55-	522.82	435.68
2.737	2.739	-0.002	4875540 1000.00	1034 134.91-	202.36	168.63
3.094	3.095	-0.001	5005317 1000.00	1034 138.50-	207.74	173.12

Average of Peak Amounts = 1036.80

## 28 Aroclor-1260

CAS #: 11096-82-5

4.199	4.200	-0.001	7396967 1000.00	1044 80.00-	120.00	100.00
4.457	4.457	0.000	13000359 1000.00	1058 140.60-	210.90	175.75
4.712	4.712	0.000	13269567 1000.00	1079 143.51-	215.27	179.39
5.334	5.335	-0.001	20903197 1000.00	1083 226.07-	339.11	282.59
5.592	5.594	-0.002	9928682 1000.00	1088 107.38-	161.07	134.23

Average of Peak Amounts = 1070.40

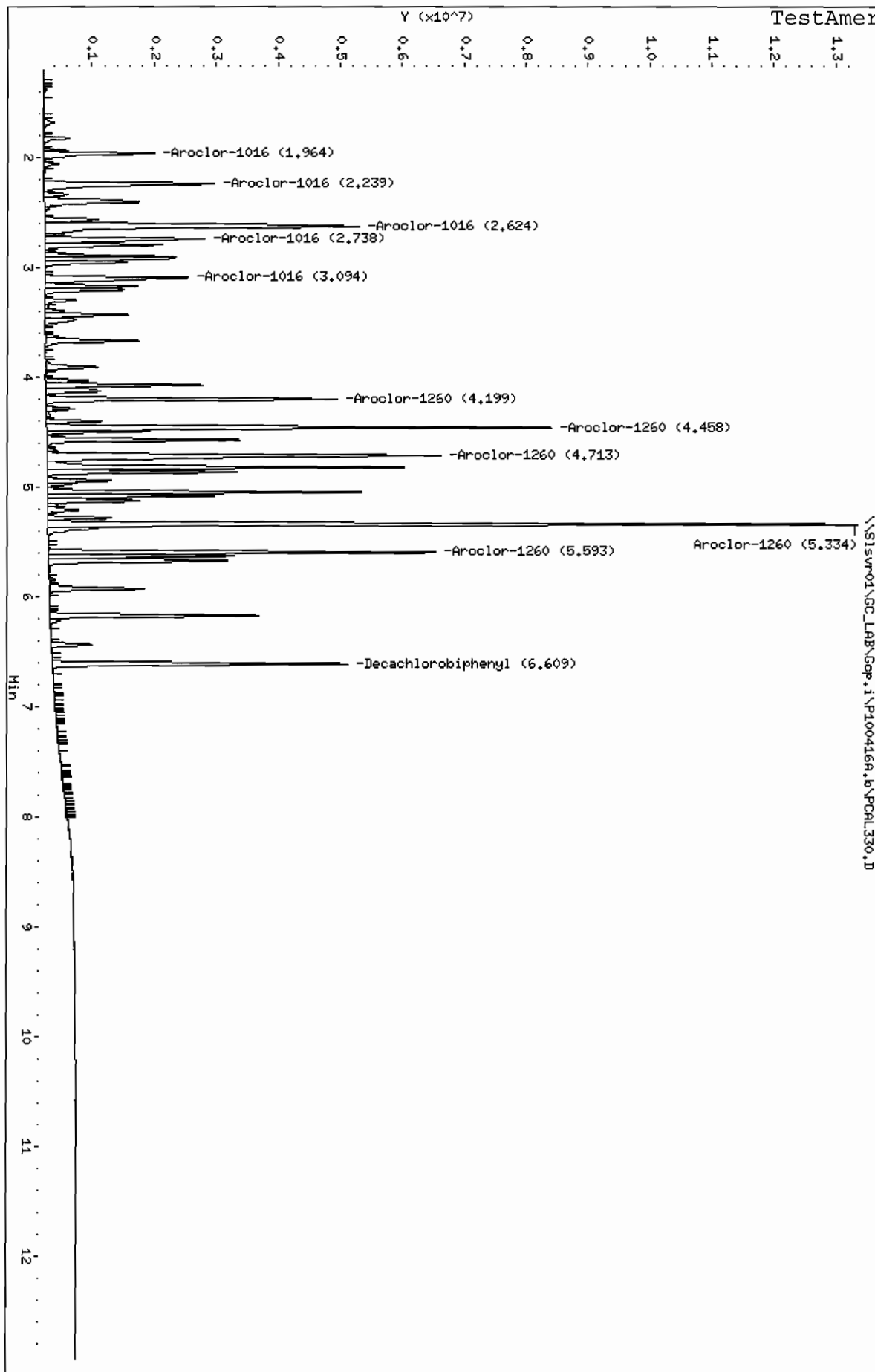
## \$ 32 Decachlorobiphenyl

CAS #:

6.609	6.609	0.000	7738421 50.0000	56.50
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Data File: \\SISvr01\GC\_LAB\Gep.i\P100416a.b\PCAL330.D  
 Date: 16-APR-2010 19:34  
 Client ID:  
 Sample Info: COAL  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gep.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL330.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i  
Lab File ID: PCAL330.D  
Analysis Type: SOIL

Injection Date: 16-APR-2010 19:34  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\808:

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	1036.9274	3.7	20.0
486539264 Aroclor-1260	1000.0000	1070.2900	7.0	20.0
570425344 Decachlorobiphenyl	50.0000	56.4974	13.0	20.0

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL330.D  
 Report Date: 17-Apr-2010 15:02

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TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 19:34  
 Lab File ID: PCAL330.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 16:06  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN	MAX	CURVE TYPE
=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	1938	1912	0.010	1.31767	Averaged
(2)	3864	3740	0.010	3.18735	Averaged
(3)	7526	7902	0.010	-4.99358	Averaged
(4)	3225	3187	0.010	1.17382	Averaged
(5)	2431	2420	0.010	0.45287	Averaged
28 Aroclor-1260(1)	4581	4769	0.010	-4.09755	Averaged
(2)	5622	5925	0.010	-5.37902	Averaged
(3)	7135	7583	0.010	-6.28294	Averaged
(4)	4546	4781	0.010	-5.18363	Averaged
(5)	10916	11814	0.010	-8.23107	Averaged
\$ 32 Decachlorobiphenyl	85451	93890	0.010	-9.87488	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL330.D  
 Report Date: 17-Apr-2010 15:02

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## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL330.D  
 Lab Smp Id: CCAL  
 Inj Date : 16-APR-2010 19:34  
 Operator : DEK  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target  
 Cal Date : 16-APR-2010 16:06  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06

Inst ID: Gcp.i  
 Quant Type: ESTD  
 Cal File: PCAL319.D  
 Continuing Calibration Sample  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

22 Aroclor-1016			CAS #: 12674-11-2			
2.536	2.537	-0.001	1912009 1000.00	986.8	80.00- 120.00	100.00
2.907	2.909	-0.002	3740479 1000.00	968.1	39.13- 352.14	195.63
3.336	3.336	0.000	7901568 1000.00	1050	82.65- 743.87	413.26
3.462	3.462	0.000	3187240 1000.00	988.3	33.34- 300.05	166.70
3.904	3.906	-0.002	2419851 1000.00	995.5	25.31- 227.81	126.56
Average of Peak Amounts =			997.740			

28 Aroclor-1260			CAS #: 11096-82-5			
5.099	5.101	-0.002	4768625 1000.00	1041	80.00- 120.00	100.00
5.297	5.299	-0.002	5924650 1000.00	1054	24.85- 223.64	124.24
5.631	5.631	0.000	7582769 1000.00	1063	31.80- 286.22	159.01
5.994	5.994	0.000	4781286 1000.00	1052	20.05- 180.48	100.27
6.231	6.231	0.000	11814107 1000.00	1082	49.55- 445.94	247.75
Average of Peak Amounts =			1058.40			

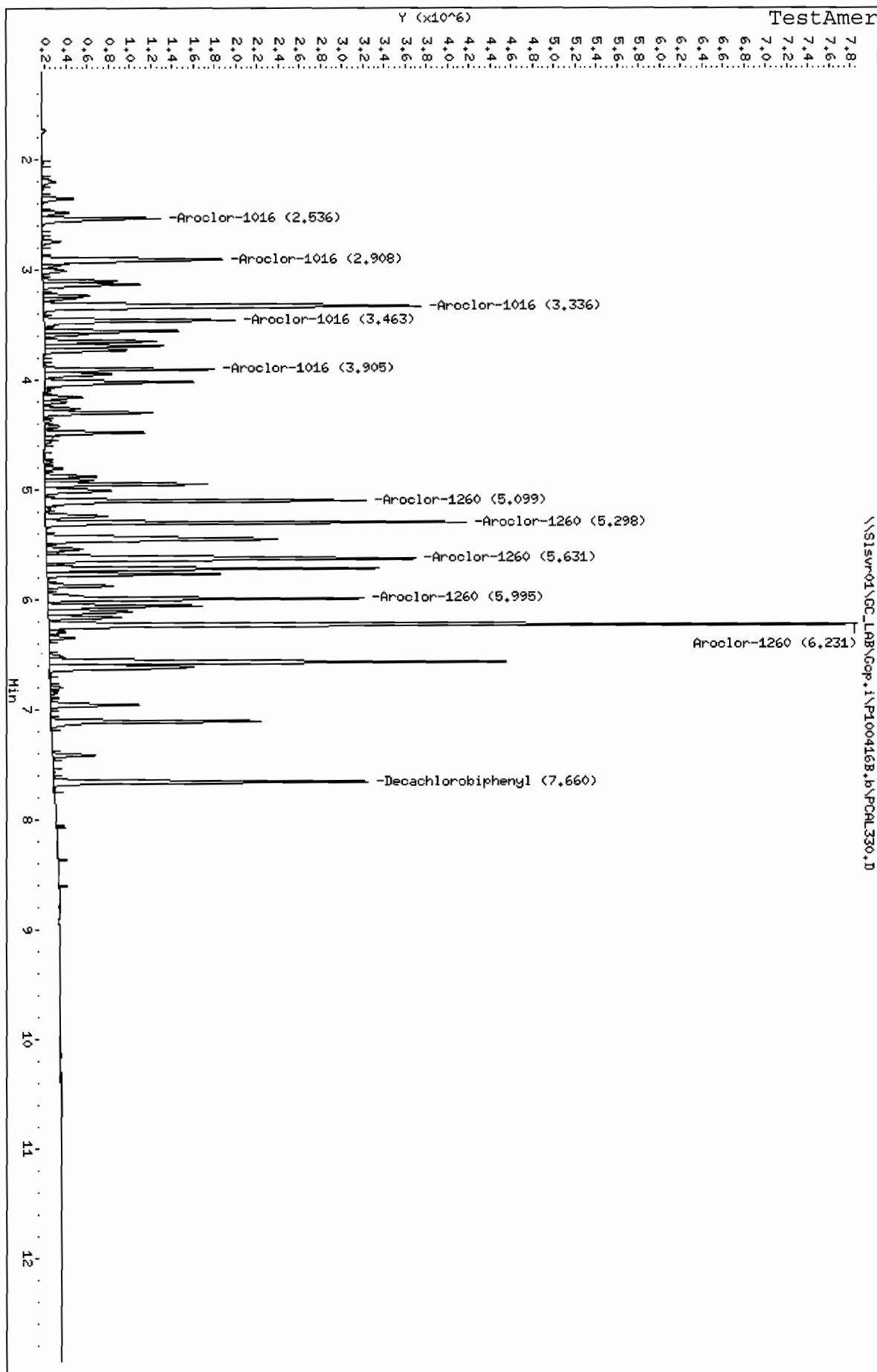
\$ 32 Decachlorobiphenyl			CAS #:			
7.659	7.659	0.000	4694483 50.0000	54.94		

LOT-#-F0D080489

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Data File: \\Slsrv01\GC\_LAB\Gop.i\PI00416B.b\PCAL330.D  
Date: 16-APR-2010 19:34  
Client ID:  
Sample Info: CCAL  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gop.i  
Operator: DEK  
Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL330.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i  
Lab File ID: PCAL330.D  
Analysis Type: SOIL

Injection Date: 16-APR-2010 19:34  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
-----	-----	-----	-----	-----
385875968 Aroclor-1016	1000.0000	997.7237	0.2	20.0
486539264 Aroclor-1260	1000.0000	1058.3484	5.8	20.0
570425344 Decachlorobiphenyl	50.0000	54.9374	9.9	20.0



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL341.D

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Report Date: 17-Apr-2010 10:24

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 23:02  
 Lab File ID: PCAL341.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 13:54  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m

COMPOUND	RRF / AMOUNT	RF1000	MIN	MAX	CURVE TYPE
=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	2839	2834	0.010	0.15785	Averaged
(2)	5629	5546	0.010	1.48399	Averaged
(3)	11589	12284	0.010	-5.99114	Averaged
(4)	4713	4688	0.010	0.52511	Averaged
(5)	4840	4817	0.010	0.48906	Averaged
28 Aroclor-1260(1)	7085	7091	0.010	-0.09311	Averaged
(2)	12293	12604	0.010	-2.52821	Averaged
(3)	12302	12523	0.010	-1.79007	Averaged
(4)	19304	19929	0.010	-3.24071	Averaged
(5)	9123	9238	0.010	-1.26062	Averaged
\$ 32 Decachlorobiphenyl	136970	137346	0.010	-0.27481	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL341.D  
 Report Date: 17-Apr-2010 10:24

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL341.D  
 Lab Smp Id: CCAL  
 Inj Date : 16-APR-2010 23:02  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:24 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 12:57 Cal File: PCAL309.D  
 Als bottle: 39 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
----	--------	--------	-----------------------------	-------------------	--------------	-------

22 Aroclor-1016			CAS #: 12674-11-2			
1.965	1.965	0.000	2834411 1000.00	998.4	80.00- 120.00	100.00
2.240	2.240	0.000	5545907 1000.00	985.2	156.53- 234.80	195.66
2.625	2.624	0.001	12283615 1000.00	1060	346.70- 520.05	433.37
2.738	2.739	-0.001	4688225 1000.00	994.7	132.32- 198.48	165.40
3.095	3.095	0.000	4816811 1000.00	995.1	135.95- 203.93	169.94
Average of Peak Amounts =			1006.68			

28 Aroclor-1260			CAS #: 11096-82-5			
4.200	4.200	0.000	7091127 1000.00	1001	80.00- 120.00	100.00
4.458	4.457	0.001	12603880 1000.00	1025	142.19- 213.29	177.74
4.713	4.712	0.001	12522501 1000.00	1018	141.28- 211.91	176.59
5.335	5.335	0.000	19929398 1000.00	1032	224.84- 337.26	281.05
5.593	5.594	-0.001	9237822 1000.00	1013	104.22- 156.33	130.27
Average of Peak Amounts =			1017.80			

\$ 32 Decachlorobiphenyl			CAS #:			
6.608	6.609	-0.001	6867299 50.0000	50.14		

Data File: \\slswr01\GC\_LAB\Gcp.i\PI00416A.b\PCAL341.D

Date: 16-APR-2010 23:02

Client ID:

Sample Info: CCAL

Volume Injected (uL): 2.0

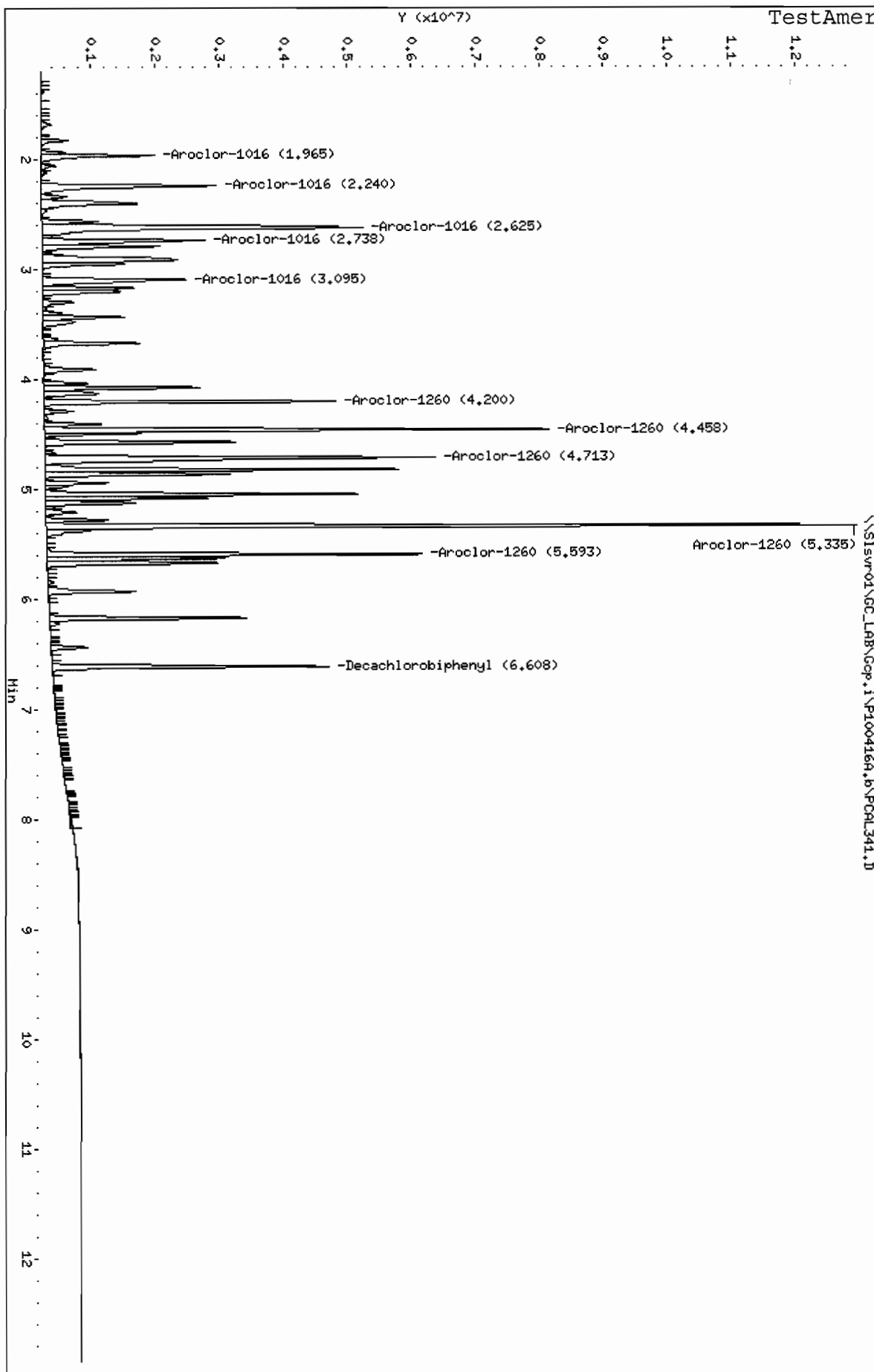
Column phase: CLPEST-1

Instrument: Gcp.i

Operator: DEK

Column diameter: 0.53

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Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PCAL341.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i  
Lab File ID: PCAL341.D  
Analysis Type: SOIL

Injection Date: 16-APR-2010 23:02  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
1 Aroclor-1016	1000.0000	1006.6703	0.7	20.0
486539264 Aroclor-1260	1000.0000	1017.8254	1.8	20.0
570425344 Decachlorobiphenyl	50.0000	50.1374	0.3	20.0

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL341.D

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Report Date: 17-Apr-2010 15:01

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcp.i Injection Date: 16-APR-2010 23:02  
 Lab File ID: PCAL341.D Init. Cal. Date(s): 16-APR-2010 16-APR-2010  
 Analysis Type: SOIL Init. Cal. Times: 11:41 16:06  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
22 Aroclor-1016(1)	1938	1881	0.010	2.94278	20.00000		Averaged
(2)	3864	3643	0.010	5.69753	20.00000		Averaged
(3)	7526	7686	0.010	-2.13476	20.00000		Averaged
(4)	3225	3096	0.010	3.99876	20.00000		Averaged
(5)	2431	2345	0.010	3.54207	20.00000		Averaged
28 Aroclor-1260(1)	4581	4560	0.010	0.46344	20.00000		Averaged
(2)	5622	5690	0.010	-1.19717	20.00000		Averaged
(3)	7135	7110	0.010	0.34476	20.00000		Averaged
(4)	4546	4459	0.010	1.90668	20.00000		Averaged
(5)	10916	11204	0.010	-2.64264	20.00000		Averaged
\$ 32 Decachlorobiphenyl	85451	86275	0.010	-0.96322	20.00000		Averaged

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL341.D  
 Report Date: 17-Apr-2010 15:01

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL341.D  
 Lab Smp Id: CCAL  
 Inj Date : 16-APR-2010 23:02  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:01 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 39 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

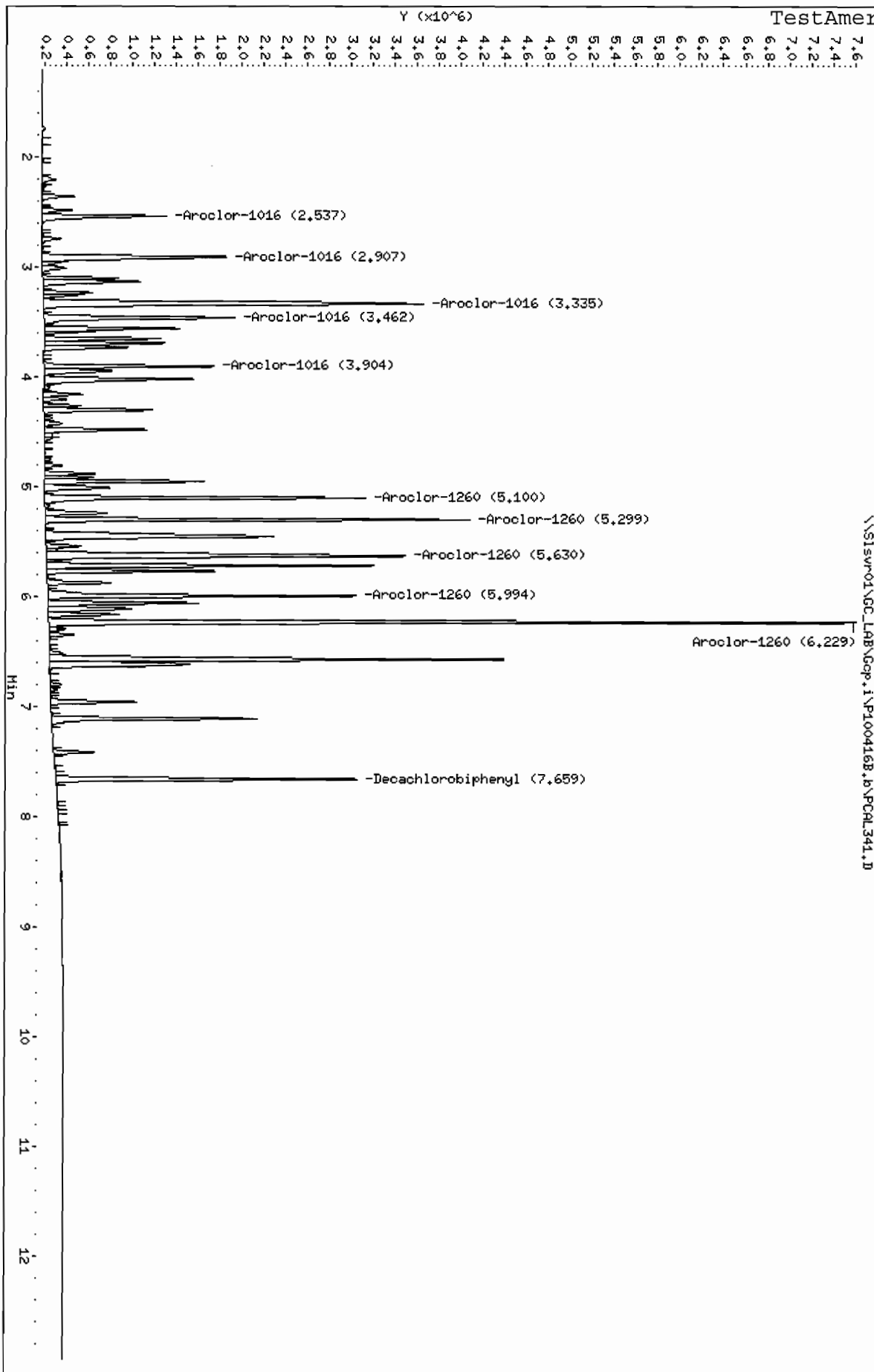
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.536	2.537	-0.001	1880522 1000.00	970.6	80.00- 120.00	100.00
2.906	2.909	-0.003	3643495 1000.00	943.0	38.75- 348.75	193.75
3.335	3.336	-0.001	7686420 1000.00	1021	81.75- 735.73	408.74
3.461	3.462	-0.001	3096133 1000.00	960.0	32.93- 296.36	164.64
3.903	3.906	-0.003	2344757 1000.00	964.6	24.94- 224.44	124.69
Average of Peak Amounts =			971.840			

28 Aroclor-1260			CAS #: 11096-82-5			
5.100	5.101	-0.001	4559690 1000.00	995.4	80.00- 120.00	100.00
5.298	5.299	-0.001	5689537 1000.00	1012	24.96- 224.60	124.78
5.630	5.631	-0.001	7109915 1000.00	996.6	31.19- 280.67	155.93
5.993	5.994	-0.001	4458985 1000.00	980.9	19.56- 176.02	97.79
6.228	6.231	-0.003	11204095 1000.00	1026	49.14- 442.30	245.72
Average of Peak Amounts =			1002.18			

\$ 32 Decachlorobiphenyl			CAS #:			
7.658	7.659	-0.001	4313726 50.0000	50.48		

Data File: \\Slsrv01\GC\_LAB\Gcp.i\PI00416B.b\PCRL341.D  
 Date: 16-APR-2010 23:02  
 Client ID:  
 Sample Info: CCAL  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: IEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PCAL341.D TestAmerica St. Louis  
Report Date: 04/17/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcp.i  
Lab File ID: PCAL341.D  
Analysis Type: SOIL

Injection Date: 16-APR-2010 23:02  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
385875968 Aroclor-1016	1000.0000	971.9073	2.8	20.0
486539264 Aroclor-1260	1000.0000	1002.2499	0.2	20.0
570425344 Decachlorobiphenyl	50.0000	50.4816	1.0	20.0



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL622.D

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Report Date: 15-Apr-2010 12:54

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 15-APR-2010 03:56  
 Lab File ID: VCAL622.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 14:09  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	1439	1464	0.010	-1.78162	20.00000	Averaged
(2)	3141	3153	0.010	-0.36831	20.00000	Averaged
(3)	6225	6575	0.010	-5.62807	20.00000	Averaged
(4)	2496	2625	0.010	-5.14743	20.00000	Averaged
(5)	2620	2719	0.010	-3.78373	20.00000	Averaged
28 Aroclor-1260(1)	3636	3788	0.010	-4.18403	20.00000	Averaged
(2)	5081	5455	0.010	-7.36415	20.00000	Averaged
(3)	5371	5061	0.010	5.77297	20.00000	Averaged
(4)	6905	7750	0.010	-12.24633	20.00000	Averaged
(5)	3541	4002	0.010	-13.00952	20.00000	Averaged
\$ 32 Decachlorobiphenyl	48919	57601	0.010	-17.74735	20.00000	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL622.D  
 Report Date: 15-Apr-2010 12:54

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL622.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 03:56  
 Operator : DEK  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 96 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SLGC06  
 Compound Sublist: Ar1660.sub  
 Sample Matrix: SOIL

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.215	2.220	-0.005	1464171 1000.00	1018 80.00- 120.00	100.00 (M)	
2.507	2.510	-0.003	3153059 1000.00	1004 172.28- 258.42	215.35	
2.907	2.910	-0.003	6574968 1000.00	1056 359.25- 538.87	449.06	
3.024	3.028	-0.004	2624507 1000.00	1051 143.40- 215.10	179.25	
3.389	3.391	-0.002	2718911 1000.00	1038 148.56- 222.84	185.70	
Average of Peak Amounts =			1033.40			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28						
Aroclor-1260			CAS #: 11096-82-5			
4.507	4.511	-0.004	3788016 1000.00	1042 80.00- 120.00	100.00 (M)	
4.765	4.770	-0.005	5455087 1000.00	1074 115.21- 172.81	144.01	
5.022	5.028	-0.006	5060817 1000.00	942.3 106.88- 160.32	133.60	
5.649	5.651	-0.002	7750200 1000.00	1122 163.68- 245.52	204.60	
5.909	5.913	-0.004	4001929 1000.00	1130 84.52- 126.78	105.65	
Average of Peak Amounts =			1062.06			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
32						
Decachlorobiphenyl			CAS #:			
6.929	6.933	-0.004	2880035 50.0000	58.87	(MH)	

LOT # F0D080489

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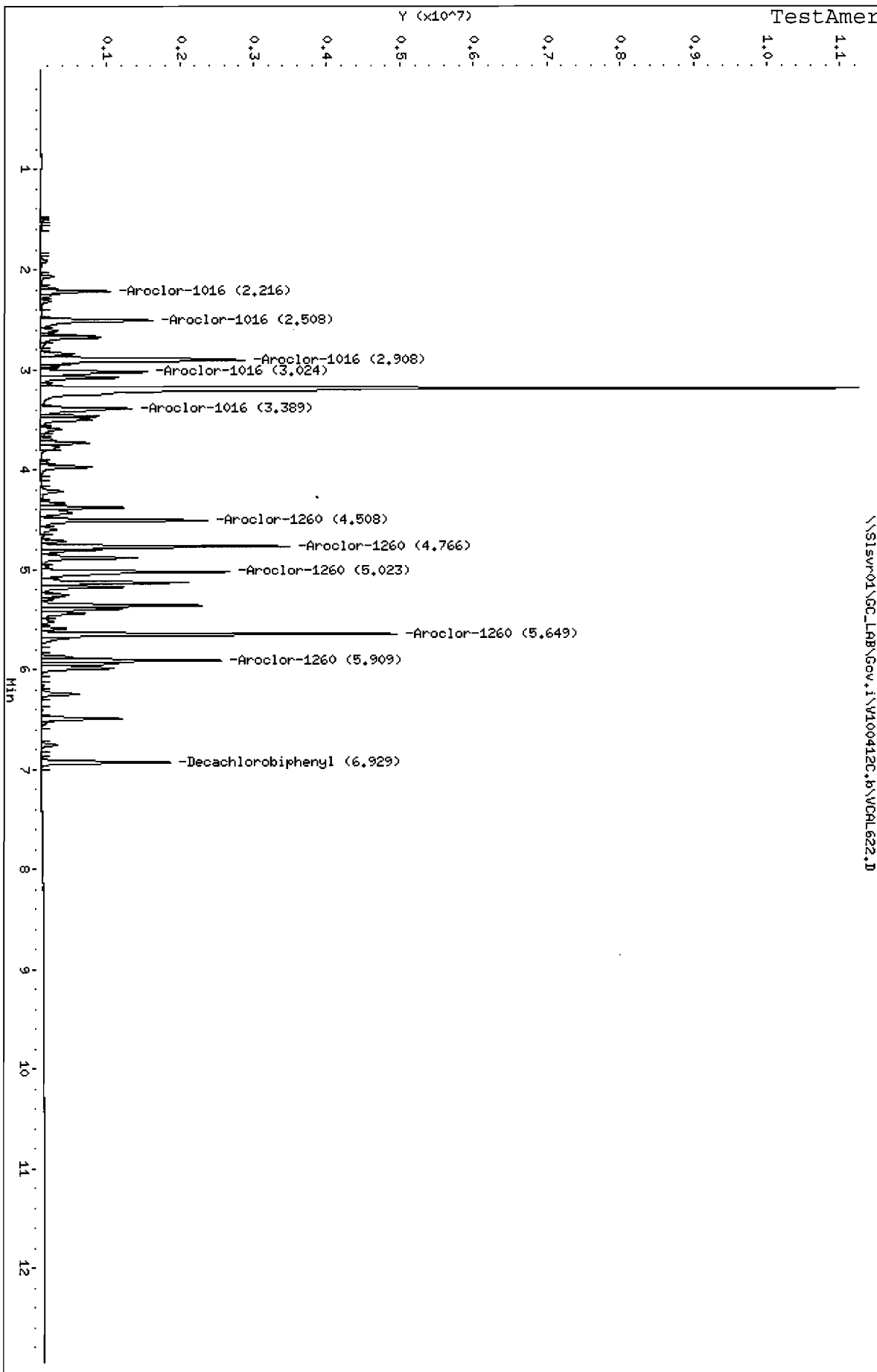
Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL622.D  
Report Date: 15-Apr-2010 12:54

## QC Flag Legend

M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.

Data File: \\Slsrv01\GC\_LAB\Gov.i\VA100412C.b\WCAL622.D  
Date: 15-APR-2010 03:56  
Client ID:  
Sample Info: CCAL  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL622.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VCAL622.D  
Analysis Type: SOIL

Injection Date: 15-APR-2010 03:56  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\808:

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	1033.4183	3.3	20.0
486539264 Aroclor-1260	1000.0000	1062.0621	6.2	20.0
570425344 Decachlorobiphenyl	50.0000	58.8737	17.7	20.0

Data File Name: VCAL622.D

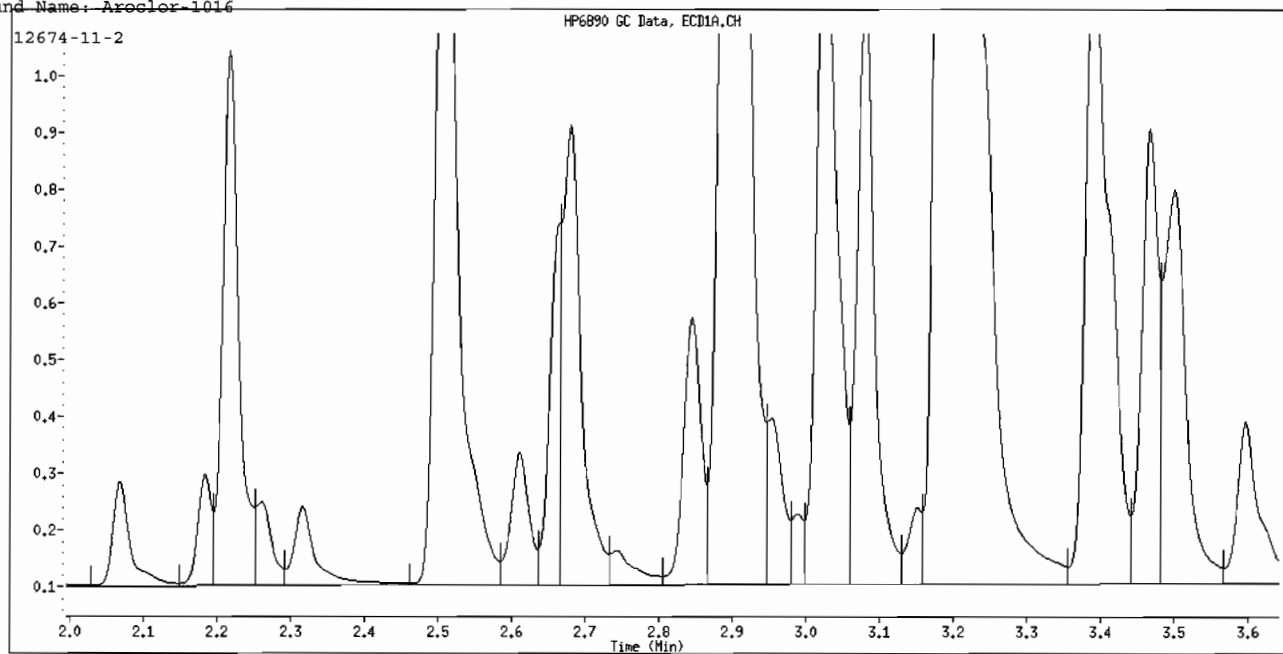
Inj. Date and Time: 15-APR-2010 03:56

Instrument ID: Gcv.i

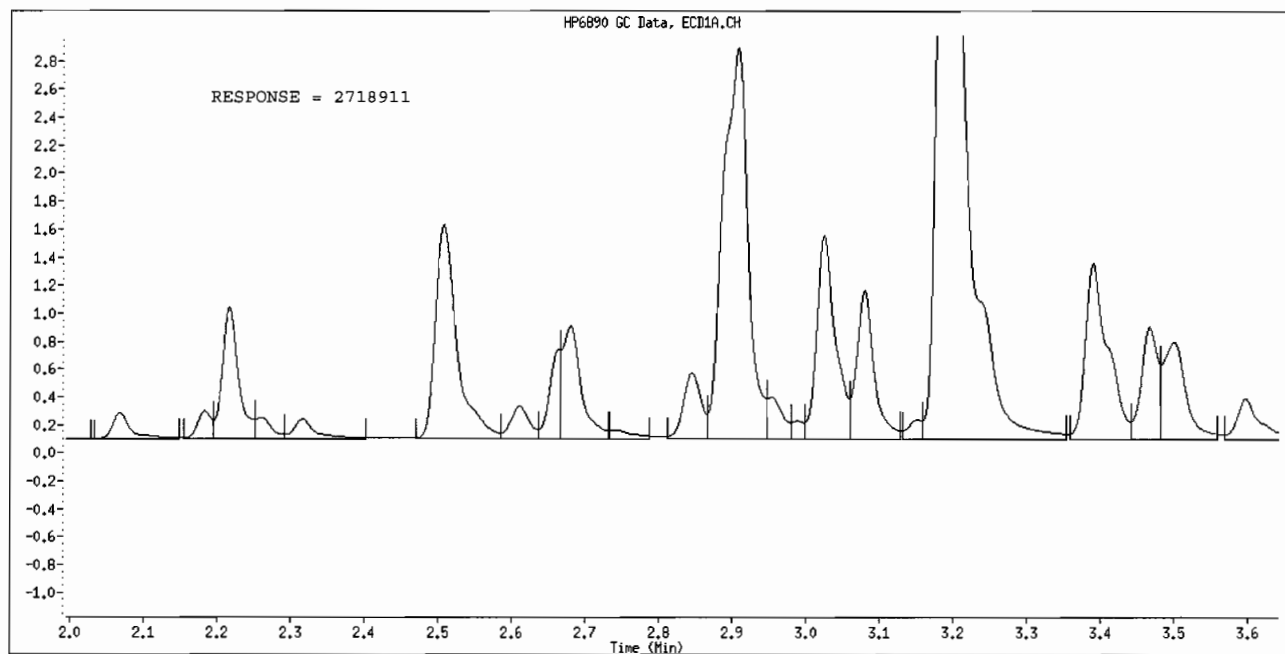
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL622.D

TestAmerica St. Louis

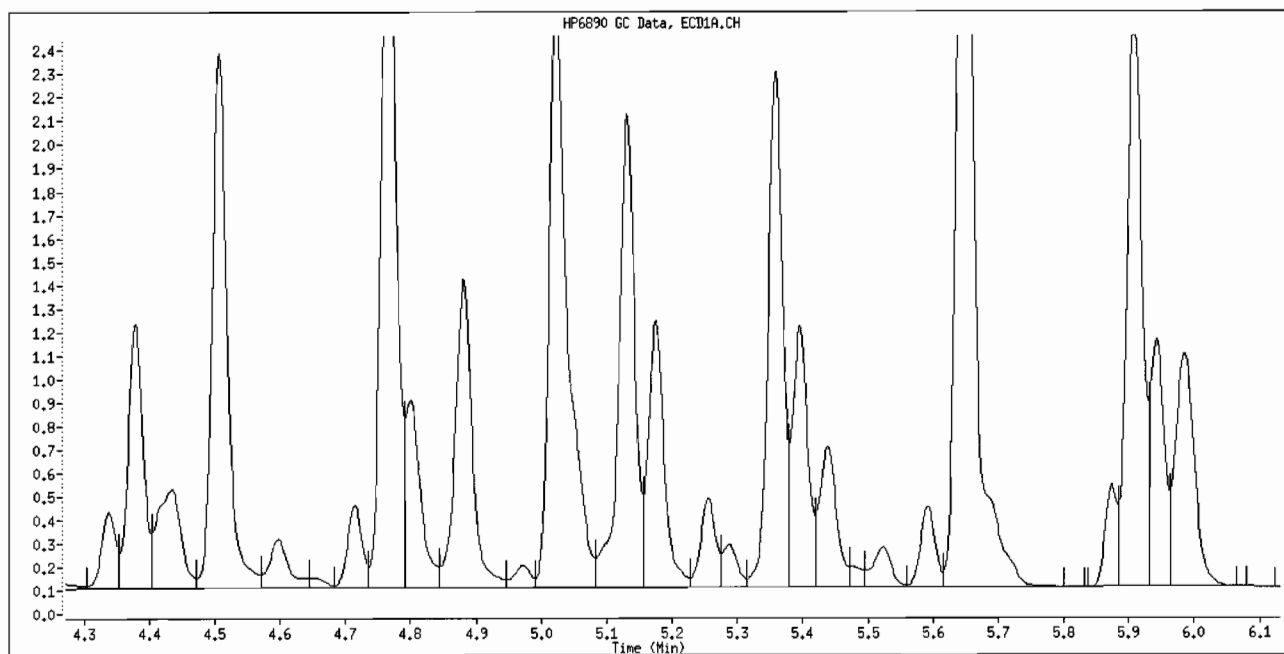
Inj. Date and Time: 15-APR-2010 03:56

Instrument ID: Gcv.i

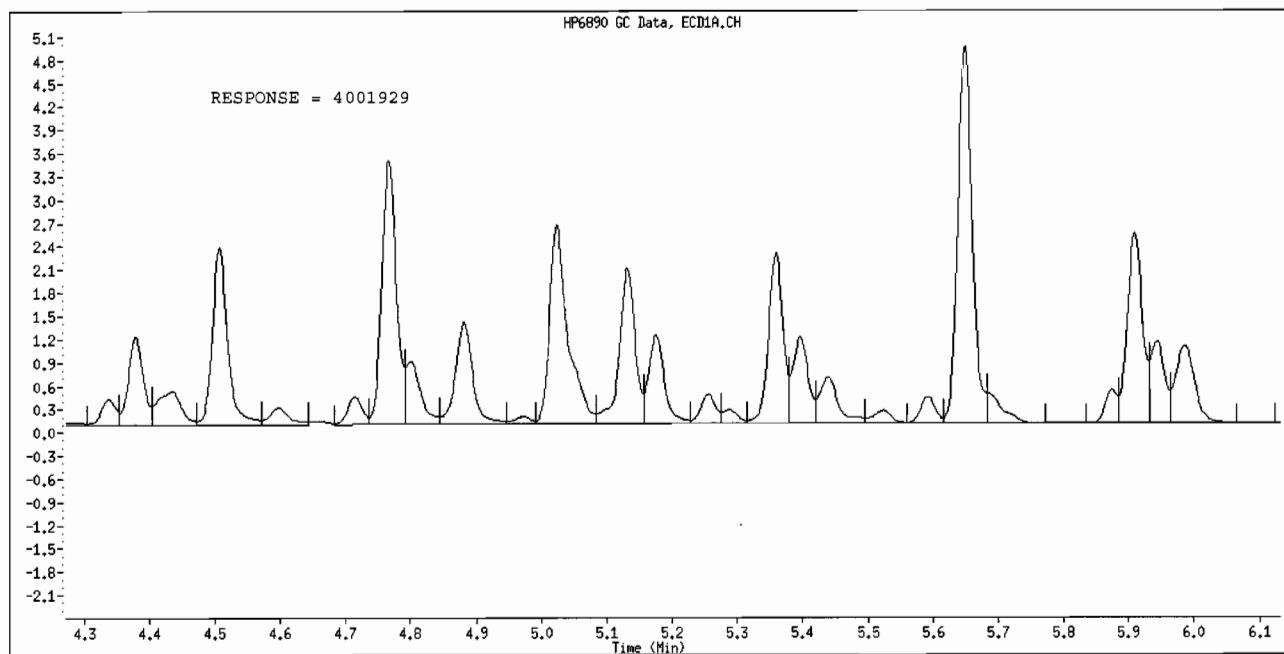
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL622.D

TestAmerica St. Louis

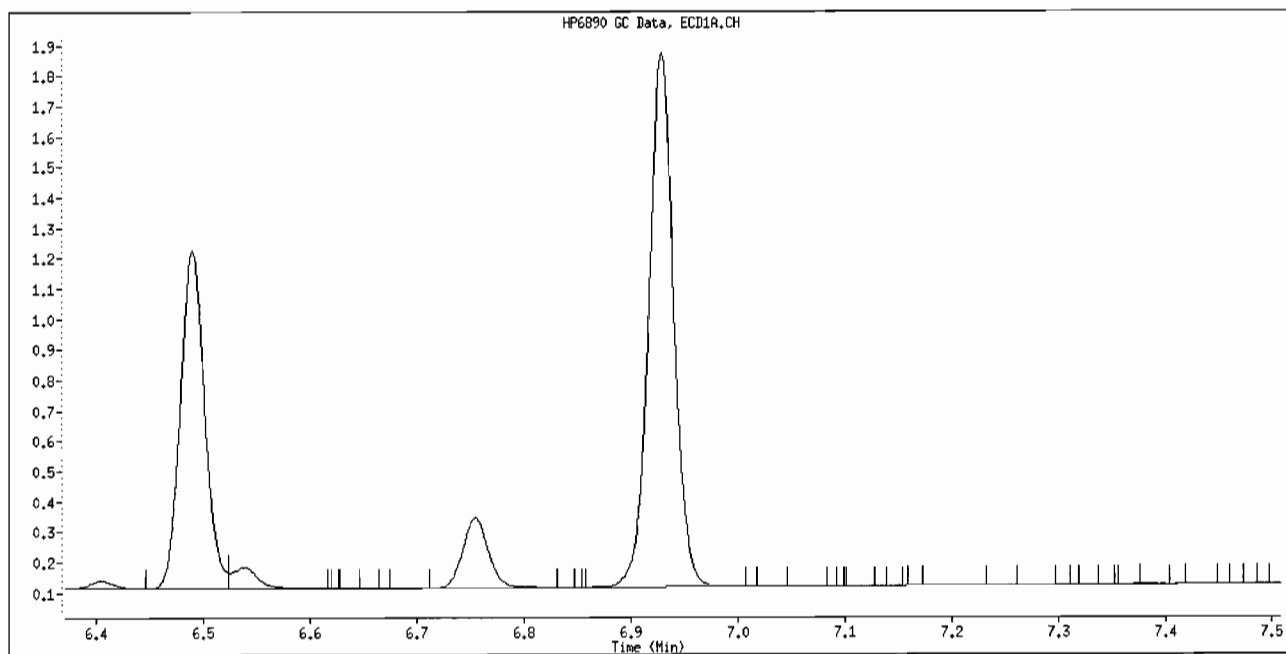
Inj. Date and Time: 15-APR-2010 03:56

Instrument ID: Gcv.i

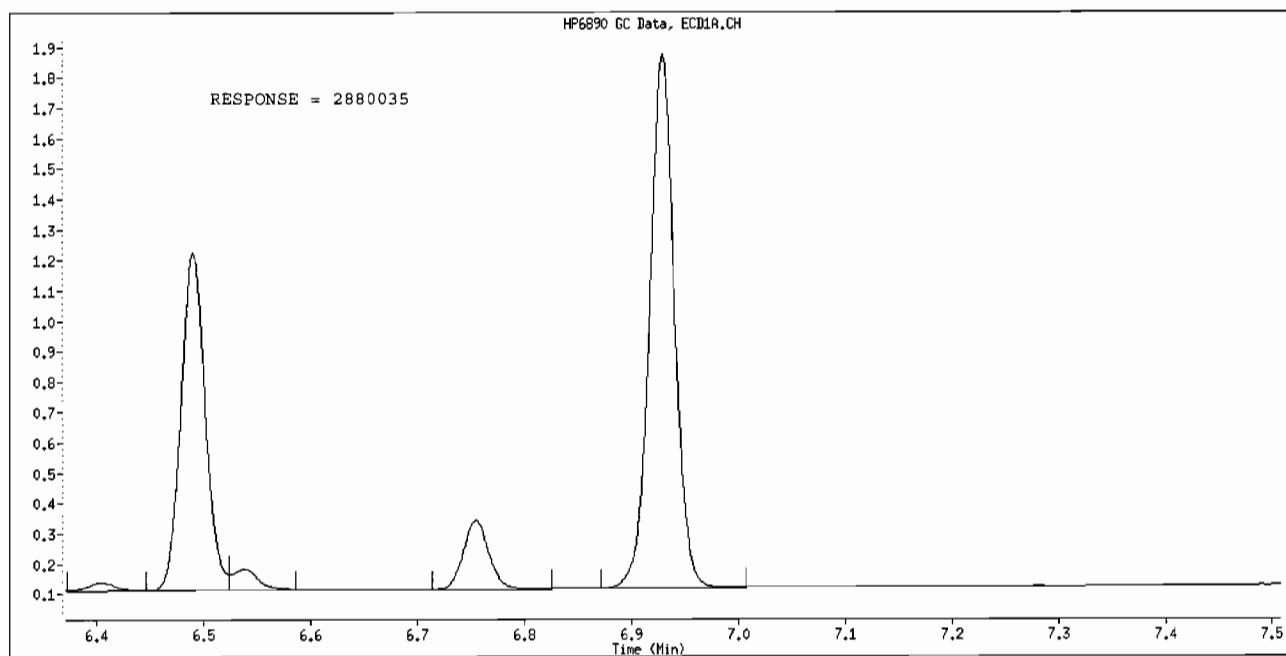
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL622.D

Page 1

Report Date: 15-Apr-2010 15:01

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 15-APR-2010 03:56  
 Lab File ID: VCAL622.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 14:09  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
22 Aroclor-1016(1)	2054	2029	0.010	1.17619	20.00000		Averaged
(2)	4137	4008	0.010	3.10688	20.00000		Averaged
(3)	8101	8811	0.010	-8.76739	20.00000		Averaged
(4)	3327	3529	0.010	-6.05135	20.00000		Averaged
(5)	2516	2631	0.010	-4.60227	20.00000		Averaged
28 Aroclor-1260(1)	4708	5086	0.010	-8.04375	20.00000		Averaged
(2)	5110	5750	0.010	-12.53784	20.00000		Averaged
(3)	6444	7320	0.010	-13.59199	20.00000		Averaged
(4)	4193	4738	0.010	-12.99407	20.00000		Averaged
(5)	7897	9580	0.010	-21.30576	20.00000		Averaged
\$ 32 Decachlorobiphenyl	48137	64715	0.010	-34.43974	20.00000		Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL622.D  
 Report Date: 15-Apr-2010 15:01

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL622.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 03:56  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:01 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 96 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

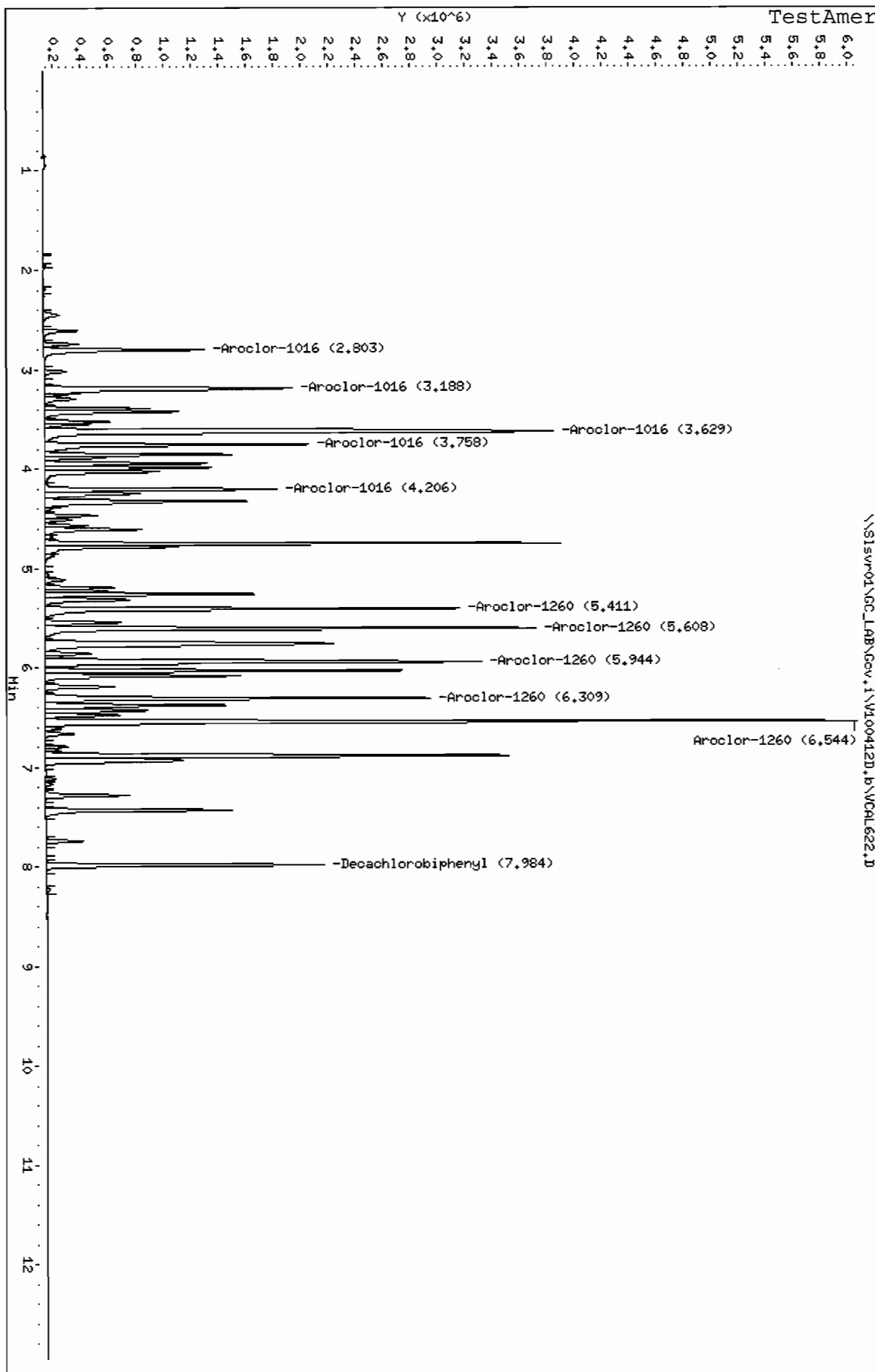
Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016			CAS #: 12674-11-2			
2.802	2.805	-0.003	2029456 1000.00	988.2	80.00- 120.00	100.00
3.187	3.190	-0.003	4008136 1000.00	968.9	39.50- 355.50	197.50
3.629	3.630	-0.001	8810923 1000.00	1088	86.83- 781.47	434.15
3.757	3.760	-0.003	3528698 1000.00	1060	34.77- 312.97	173.87
4.205	4.206	-0.001	2631398 1000.00	1046	25.93- 233.39	129.66
Average of Peak Amounts =			1030.22			
28 Aroclor-1260			CAS #: 11096-82-5			
5.410	5.411	-0.001	5086254 1000.00	1080	80.00- 120.00	100.00
5.607	5.608	-0.001	5750427 1000.00	1125	22.61- 203.50	113.06
5.944	5.946	-0.002	7319981 1000.00	1136	28.78- 259.05	143.92
6.309	6.311	-0.002	4737923 1000.00	1130	18.63- 167.67	93.15
6.544	6.546	-0.002	9579711 1000.00	1213	37.67- 339.02	188.35
Average of Peak Amounts =			1136.80			
\$ 32 Decachlorobiphenyl			CAS #:			
7.984	7.986	-0.002	3235762 50.0000	67.22		

Data File: \\SISvr01\NC\_LAB\Gov.i\W100412D.b\WCAL622.D  
Date: 15-APR-2010 03:56  
Client ID:  
Sample Info: CCL  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

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Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL622.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VCAL622.D  
Analysis Type: SOIL

Injection Date: 15-APR-2010 03:56  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
385875968 Aroclor-1016	1000.0000	1030.2759	3.0	20.0
486539264 Aroclor-1260	1000.0000	1136.9468	13.7	20.0
570425344 Decachlorobiphenyl	50.0000	67.2199	34.4	20.0

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL633.D

Page 1

Report Date: 15-Apr-2010 13:03

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 15-APR-2010 07:20  
 Lab File ID: VCAL633.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 14:09  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m

	_____		MIN		MAX	
COMPOUND	RRF / AMOUNT	RF1000	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	1439	1581	0.010	-9.88454	20.00000	Averaged
(2)	3141	3141	0.010	0.02717	20.00000	Averaged
(3)	6225	7229	0.010	-16.12996	20.00000	Averaged
(4)	2496	2539	0.010	-1.71441	20.00000	Averaged
(5)	2620	2666	0.010	-1.76627	20.00000	Averaged
28 Aroclor-1260(1)	3636	3837	0.010	-5.52163	20.00000	Averaged
(2)	5081	5245	0.010	-3.23649	20.00000	Averaged
(3)	5371	5702	0.010	-6.17153	20.00000	Averaged
(4)	6905	7374	0.010	-6.79288	20.00000	Averaged
(5)	3541	3596	0.010	-1.55715	20.00000	Averaged
\$ 32 Decachlorobiphenyl	48919	52245	0.010	-6.79996	20.00000	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL633.D  
 Report Date: 15-Apr-2010 13:03

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL633.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 07:20  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 7 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22						
Aroclor-1016			CAS #: 12674-11-2			
2.216	2.220	-0.004	1580735 1000.00	1099	80.00- 120.00	100.00 (M)
2.506	2.510	-0.004	3140635 1000.00	999.7	158.95- 238.42	198.68
2.906	2.910	-0.004	7228673 1000.00	1161	365.84- 548.76	457.30
3.022	3.028	-0.006	2538818 1000.00	1017	128.49- 192.73	160.61
3.387	3.391	-0.004	2666058 1000.00	1018	134.93- 202.39	168.66
Average of Peak Amounts =			1058.94			

28 Aroclor-1260			CAS #: 11096-82-5			
4.506	4.511	-0.005	3836650 1000.00	1055	80.00- 120.00	100.00 (M)
4.766	4.770	-0.004	5245364 1000.00	1032	109.37- 164.06	136.72
5.022	5.028	-0.006	5702341 1000.00	1062	118.90- 178.35	148.63
5.647	5.651	-0.004	7373659 1000.00	1068	153.75- 230.63	192.19
5.909	5.913	-0.004	3596374 1000.00	1016	74.99- 112.48	93.74
Average of Peak Amounts =			1046.60			

\$ 32 Decachlorobiphenyl			CAS #:			
6.929	6.933	-0.004	2612268 50.0000	53.40		(M)

LOT # F0D080489

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Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL633.D  
Report Date: 15-Apr-2010 13:03

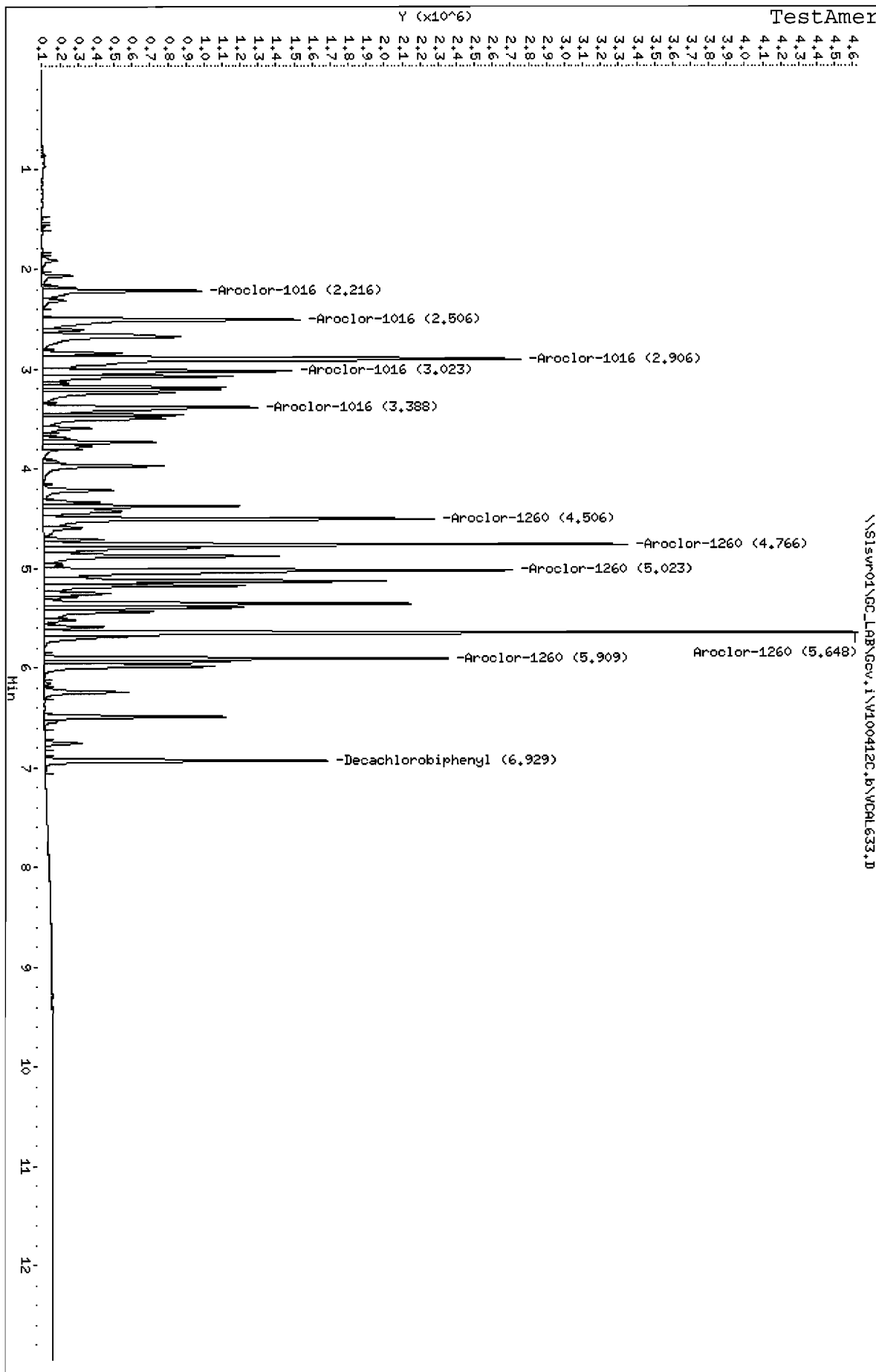
Page 2

# QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsw01\GC\_LAB\Gov.i\1100412C.b\WCAL633.D  
 Date: 15-APR-2010 07:20  
 Client ID:  
 Sample Info: CCAL  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53





Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL633.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VCAL633.D  
Analysis Type: SOIL

Injection Date: 15-APR-2010 07:20  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\808:

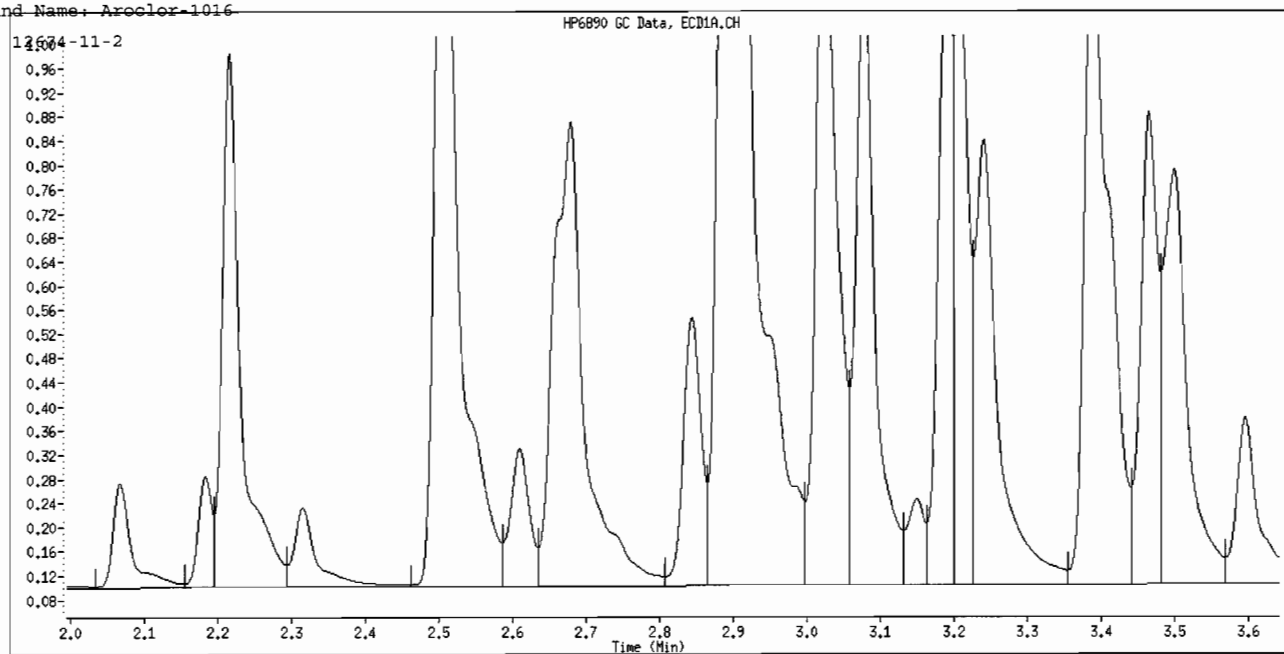
COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	1058.9360	5.9	20.0
486539264 Aroclor-1260	1000.0000	1046.5594	4.7	20.0
570425344 Decachlorobiphenyl	50.0000	53.4000	6.8	20.0

Data File Name: VCAL633.D

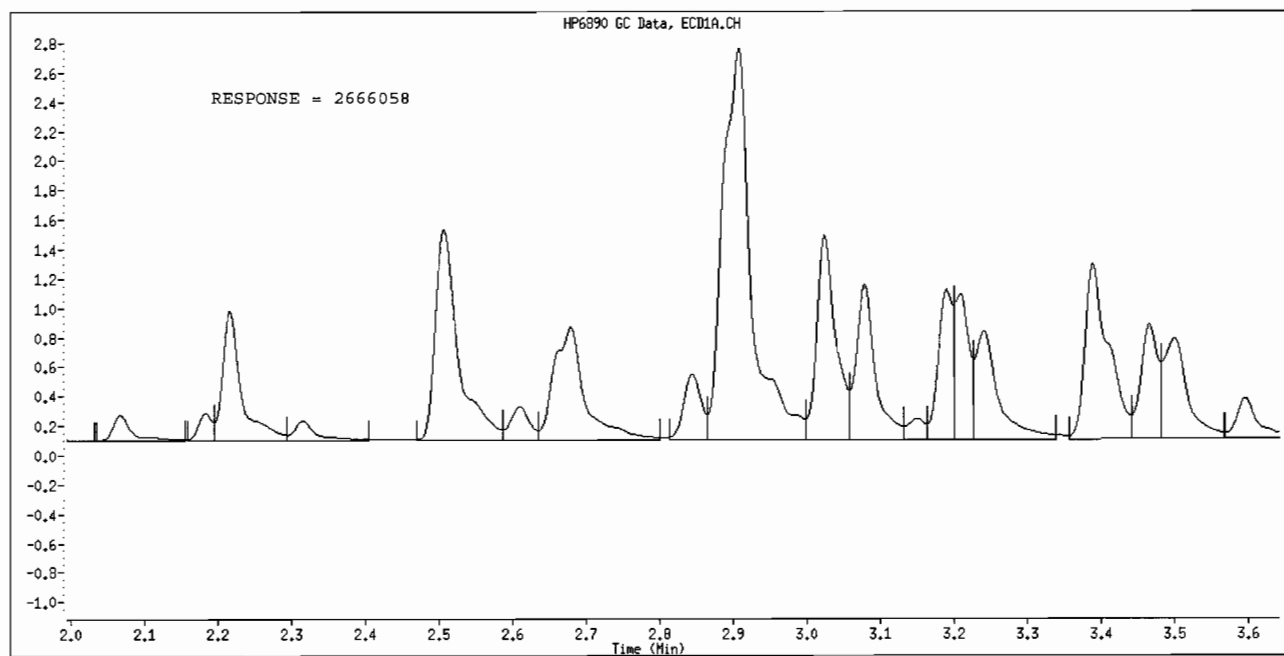
Inj. Date and Time: 15-APR-2010 07:20

Instrument ID: Gcv.i

Client ID:

Compound Name: ~~Aroclor-1016~~CAS #: ~~12604-11-2~~

Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL633.D

TestAmerica St. Louis

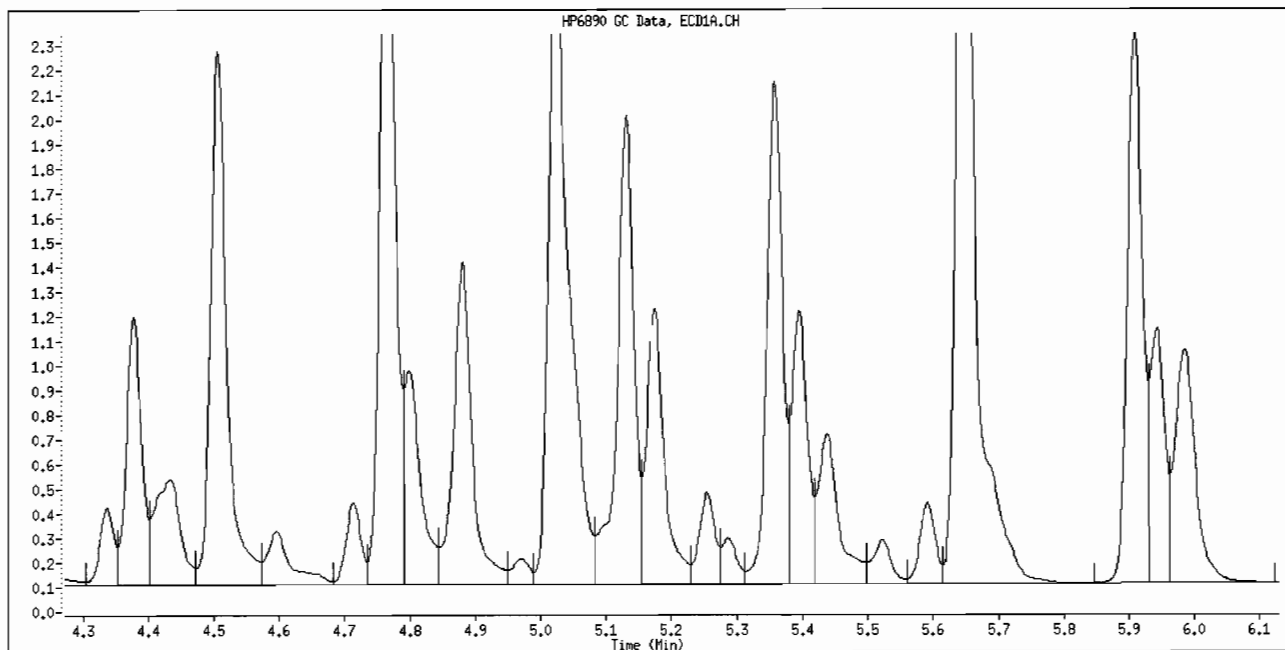
Inj. Date and Time: 15-APR-2010 07:20

Instrument ID: Gcv.i

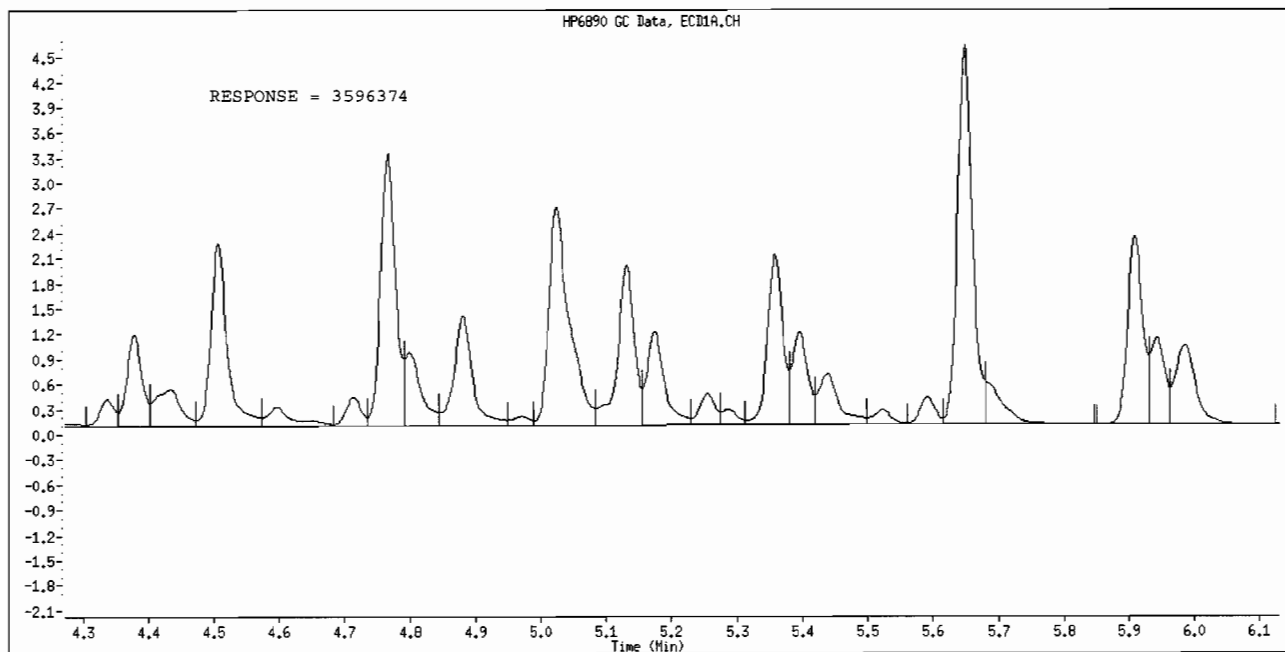
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL633.D

TestAmerica St. Louis

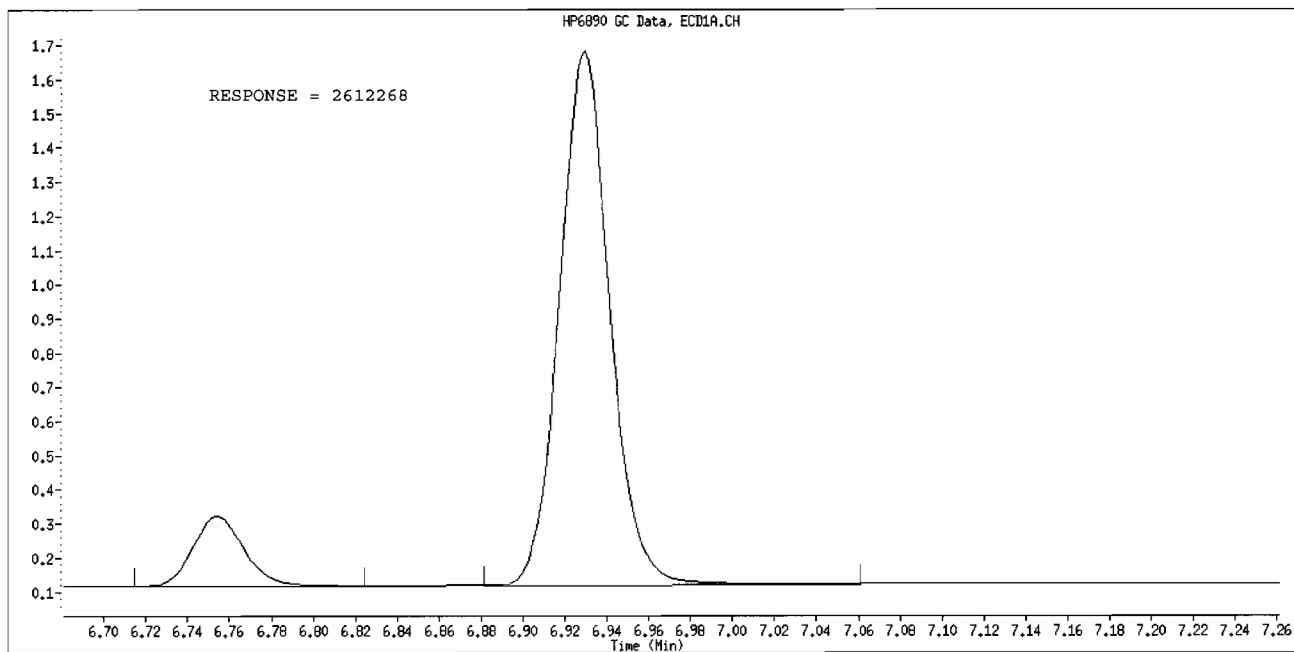
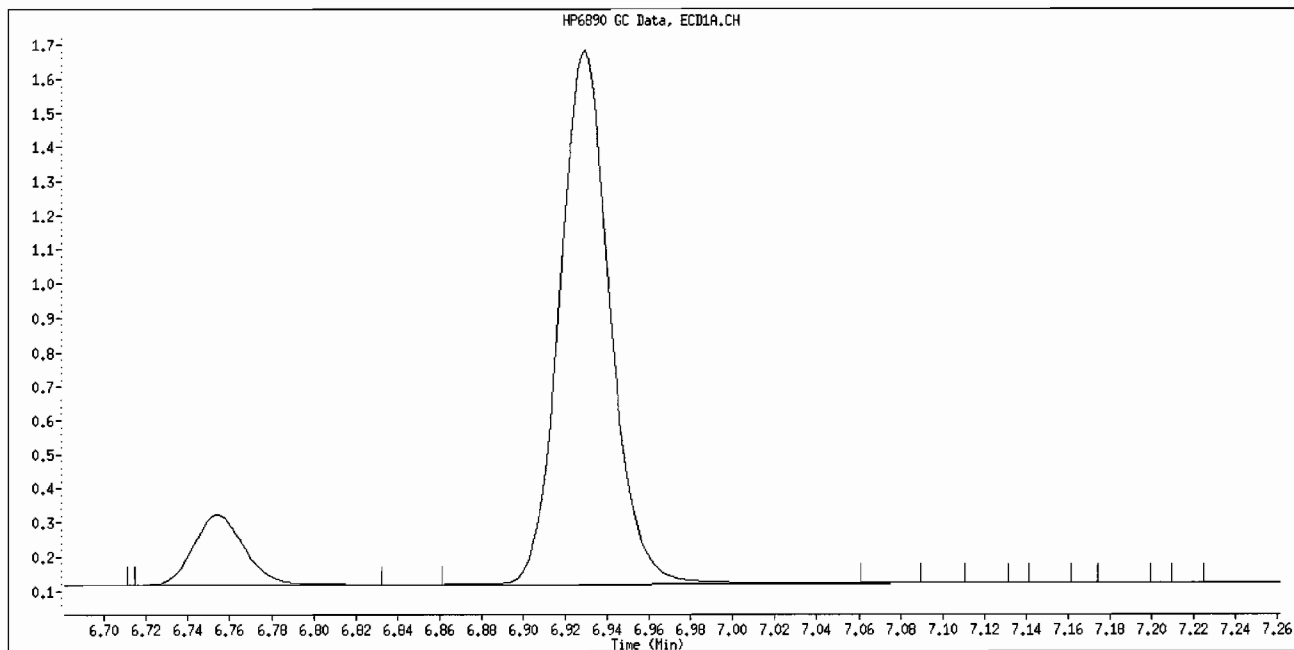
Inj. Date and Time: 15-APR-2010 07:20

Instrument ID: Gcv.i

Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL633.D

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Report Date: 15-Apr-2010 15:03

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 15-APR-2010 07:20  
 Lab File ID: VCAL633.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 14:09  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN	RRF	%D / %DRIFT	MAX	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016(1)	2054	2062	0.010	-0.42324	20.00000	Averaged	
(2)	4137	4301	0.010	-3.98126	20.00000	Averaged	
(3)	8101	8988	0.010	-10.95429	20.00000	Averaged	
(4)	3327	3582	0.010	-7.64914	20.00000	Averaged	
(5)	2516	2586	0.010	-2.79294	20.00000	Averaged	
28 Aroclor-1260(1)	4708	5317	0.010	-12.93679	20.00000	Averaged	
(2)	5110	5946	0.010	-16.37315	20.00000	Averaged	
(3)	6444	7675	0.010	-19.09972	20.00000	Averaged	
(4)	4193	4789	0.010	-14.20045	20.00000	Averaged	
(5)	7897	9542	0.010	-20.82506	20.00000	Averaged	<-
\$ 32 Decachlorobiphenyl	48137	60108	0.010	-24.86918	20.00000	Averaged	<-

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL633.D  
 Report Date: 15-Apr-2010 15:03

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL633.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 07:20  
 Operator : DEK  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 7 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
22	2.801	2.805	2062302	1004	80.00- 120.00	100.00 (M)
	3.187	3.190	4301348	1040	41.71- 375.43	208.57
	3.627	3.630	8988077	1110	87.17- 784.49	435.83
	3.756	3.760	3581862	1076	34.74- 312.63	173.68
	4.204	4.206	2585882	1028	25.08- 225.70	125.39
Average of Peak Amounts =			1051.60			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
28	5.409	5.411	5316598	1129	80.00- 120.00	100.00 (M)
	5.607	5.608	5946403	1164	22.37- 201.32	111.85
	5.944	5.946	7674904	1191	28.87- 259.84	144.36
	6.311	6.311	4788507	1142	18.01- 162.12	90.07
	6.544	6.546	9541750	1208	35.89- 323.05	179.47
Average of Peak Amounts =			1166.80			

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
32	7.984	7.986	3005413	62.43		(M)

LOT# F0D080489

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Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL633.D  
Report Date: 15-Apr-2010 15:03

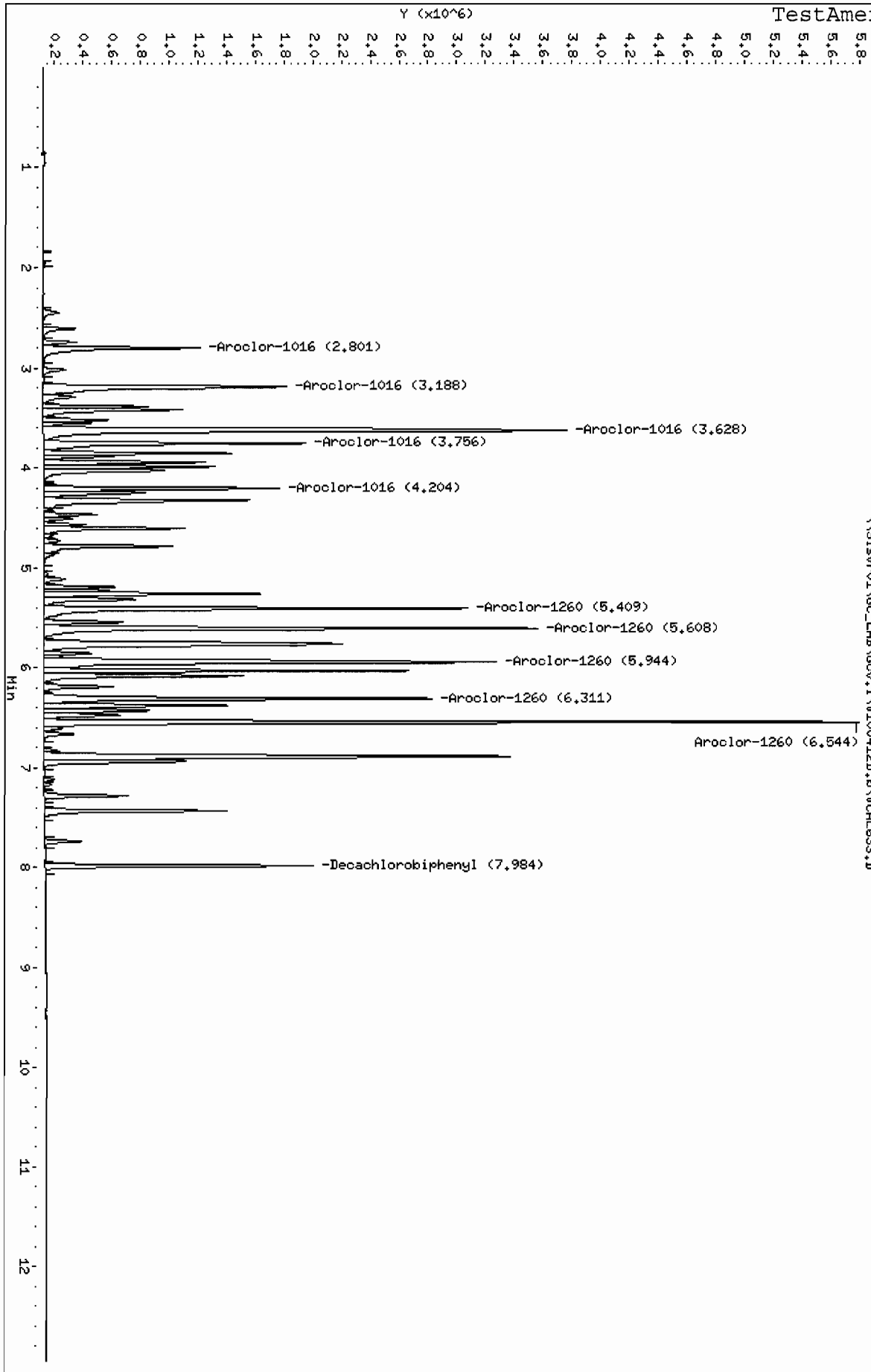
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\1100412D.b\WCAL633.D  
Date: 15-APR-2010 07:20  
Client ID:  
Sample Info: COAL  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53





Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL633.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VCAL633.D  
Analysis Type: SOIL

Injection Date: 15-APR-2010 07:20  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\808:

COMPOUND	EXPECTED	MEASURED	MAX	
	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
385875968 Aroclor-1016	1000.0000	1051.6017	5.2	20.0
486539264 Aroclor-1260	1000.0000	1166.8703	16.7	20.0
570425344 Decachlorobiphenyl	50.0000	62.4346	24.9	20.0<-

Data File Name: VCAL633.D

Inj. Date and Time: 15-APR-2010 07:20

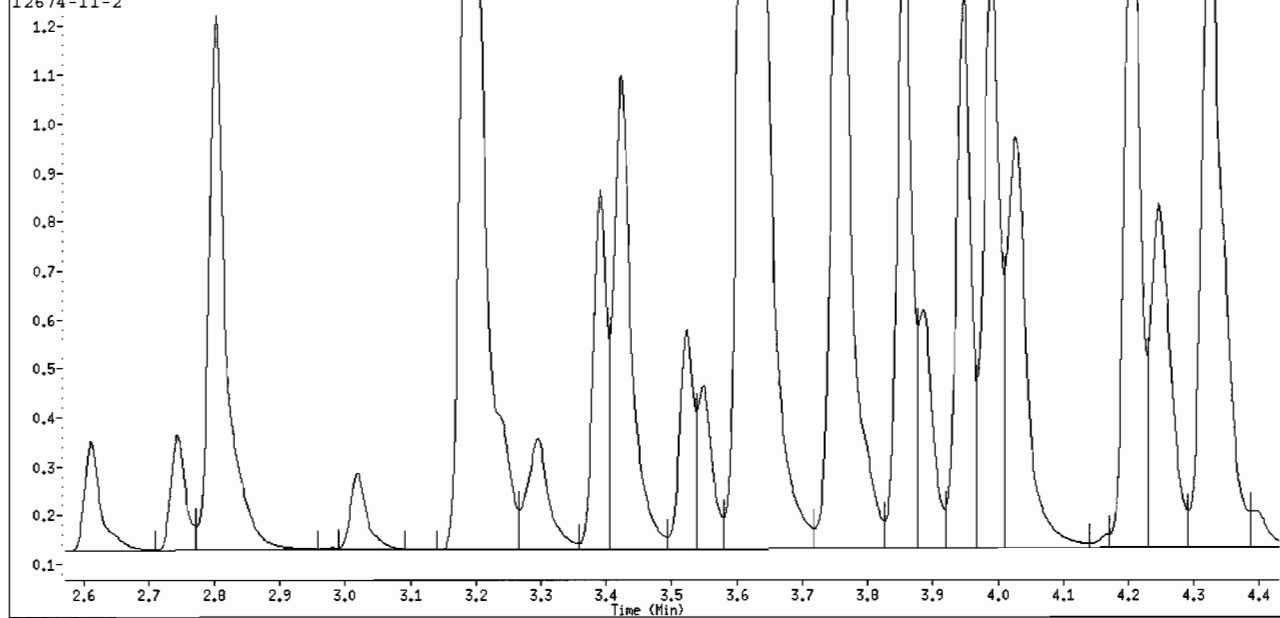
Instrument ID: Gcv.i

Client ID:

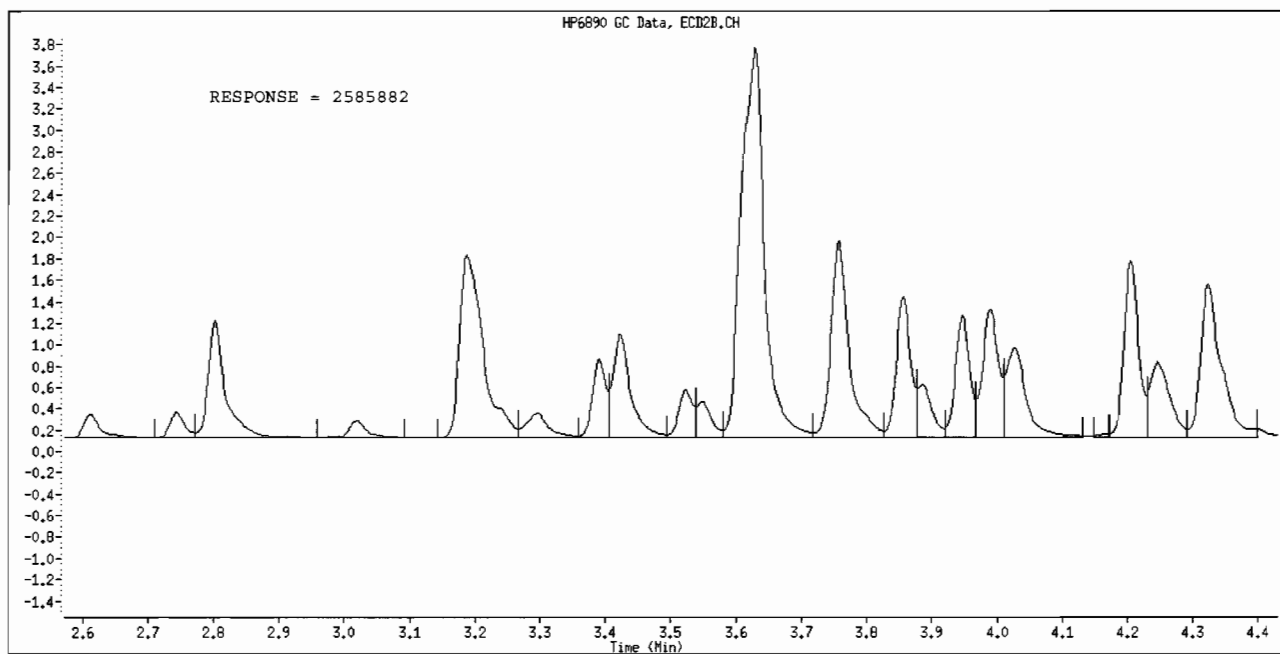
Compound Name: ~~Aroclor-1016~~

CAS #: 12674-11-2

HP6890 GC Data, ECD2B.CH



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL633.D

TestAmerica St. Louis

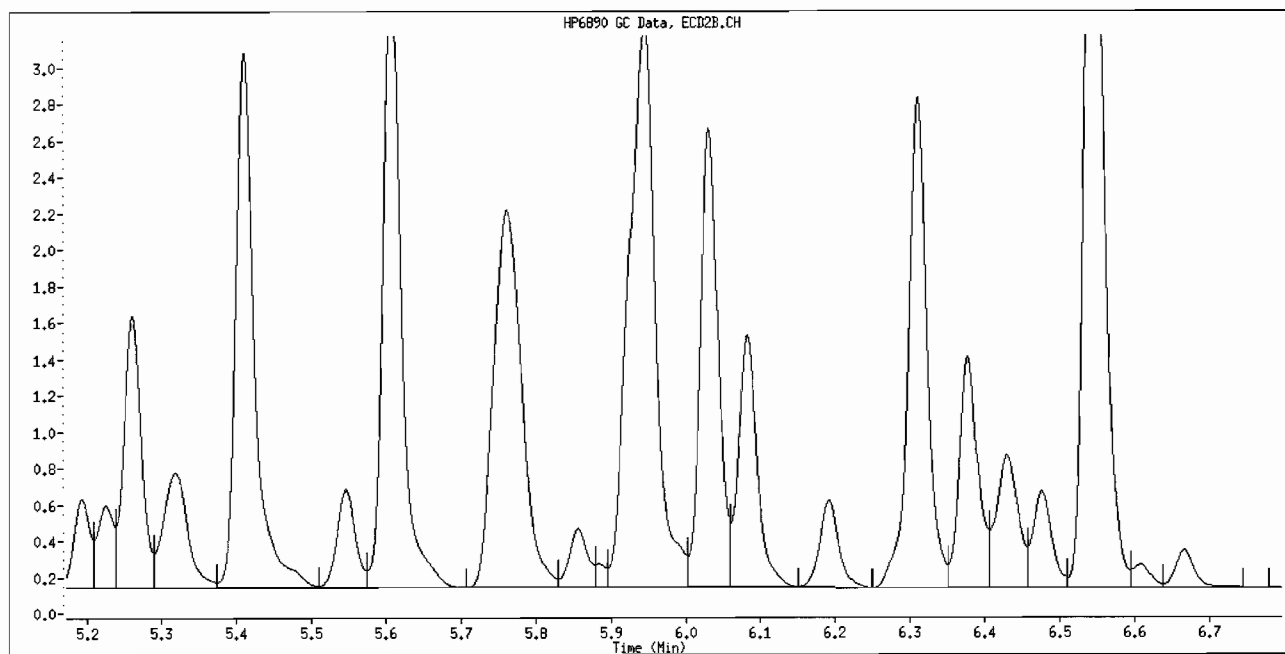
Inj. Date and Time: 15-APR-2010 07:20

Instrument ID: Gcv.i

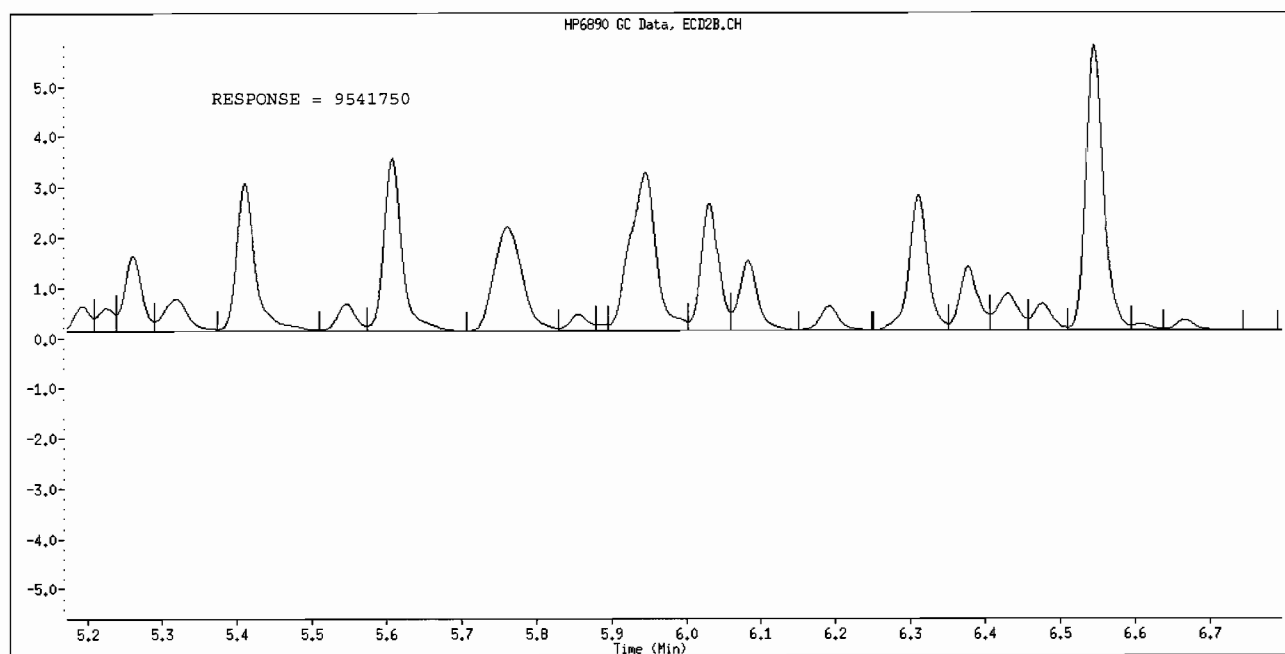
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

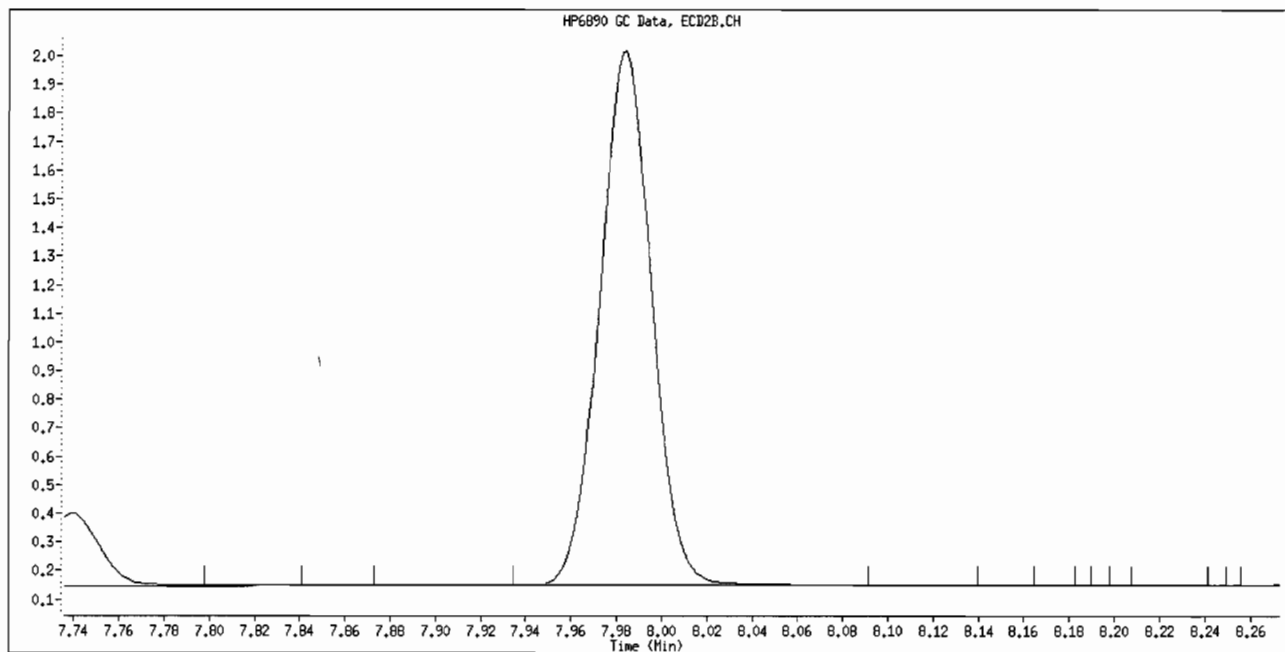
Inj. Date and Time: 15-APR-2010 07:20

Instrument ID: Gcv.i

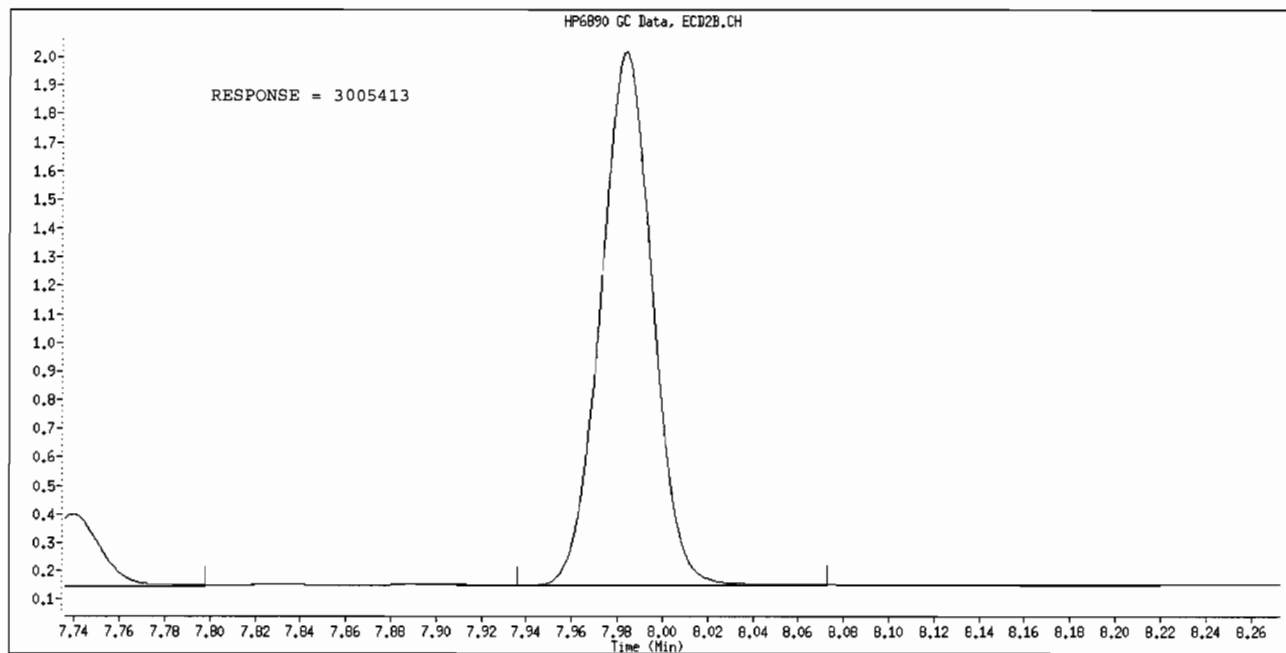
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL644.D

Page 1

Report Date: 15-Apr-2010 13:03

TestAmerica St. Louis

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i                      Injection Date: 15-APR-2010 10:44  
 Lab File ID: VCAL644.D                  Init. Cal. Date(s): 26-MAR-2010    26-MAR-2010  
 Analysis Type: SOIL                      Init. Cal. Times:    09:49                  14:09  
 Lab Sample ID: CCAL                      Quant Type:    ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m

COMPOUND	RRF / AMOUNT	RF1000	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
22 Aroclor-1016(1)	1439	1598	0.010	-11.10293	Averaged
(2)	3141	3026	0.010	3.66920	Averaged
(3)	6225	6233	0.010	-0.13129	Averaged
(4)	2496	2504	0.010	-0.33297	Averaged
(5)	2620	2586	0.010	1.29795	Averaged
28 Aroclor-1260(1)	3636	3640	0.010	-0.12103	Averaged
(2)	5081	5032	0.010	0.96501	Averaged
(3)	5371	4942	0.010	7.98376	Averaged
(4)	6905	7158	0.010	-3.66796	Averaged
(5)	3541	3533	0.010	0.24652	Averaged
\$ 32 Decachlorobiphenyl	48919	50900	0.010	-4.04884	Averaged

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL644.D

Page 1

Report Date: 15-Apr-2010 13:03

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL644.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 10:44  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 18 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

AMOUNTS						
			CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ng/mL)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016			CAS #: 12674-11-2			
2.217	2.220	-0.003	1598262 1000.00	1111 80.00- 120.00		100.00 (M)
2.507	2.510	-0.003	3026221 1000.00	963.3 151.48- 227.21		189.34
2.907	2.910	-0.003	6232813 1000.00	1001 311.98- 467.97		389.97
3.023	3.028	-0.005	2504337 1000.00	1003 125.35- 188.03		156.69
3.388	3.391	-0.003	2585782 1000.00	987.0 129.43- 194.14		161.79
Average of Peak Amounts =			1013.06			

28 Aroclor-1260			CAS #: 11096-82-5			
4.507	4.511	-0.004	3640290 1000.00	1001 80.00- 120.00		100.00 (M)
4.765	4.770	-0.005	5031889 1000.00	990.3 110.58- 165.87		138.23
5.022	5.028	-0.006	4942078 1000.00	920.2 108.61- 162.91		135.76
5.647	5.651	-0.004	7157895 1000.00	1037 157.30- 235.96		196.63
5.908	5.913	-0.005	3532502 1000.00	997.5 77.63- 116.45		97.04
Average of Peak Amounts =			989.200			

\$ 32 Decachlorobiphenyl			CAS #:			
6.927	6.933	-0.006	2544977 50.0000	52.02		(M)

LOT # F0D080489

1024 of 1145

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL644.D  
Report Date: 15-Apr-2010 13:03

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QC Flag Legend

M - Compound response manually integrated.

Data File: \\slaw01\GC\_LAB\Gov.i\1100412C.b\WCL644.D

Date: 15-APR-2010 10:44

Client ID:

Sample Info: CCAL

Volume Injected (uL): 2.0

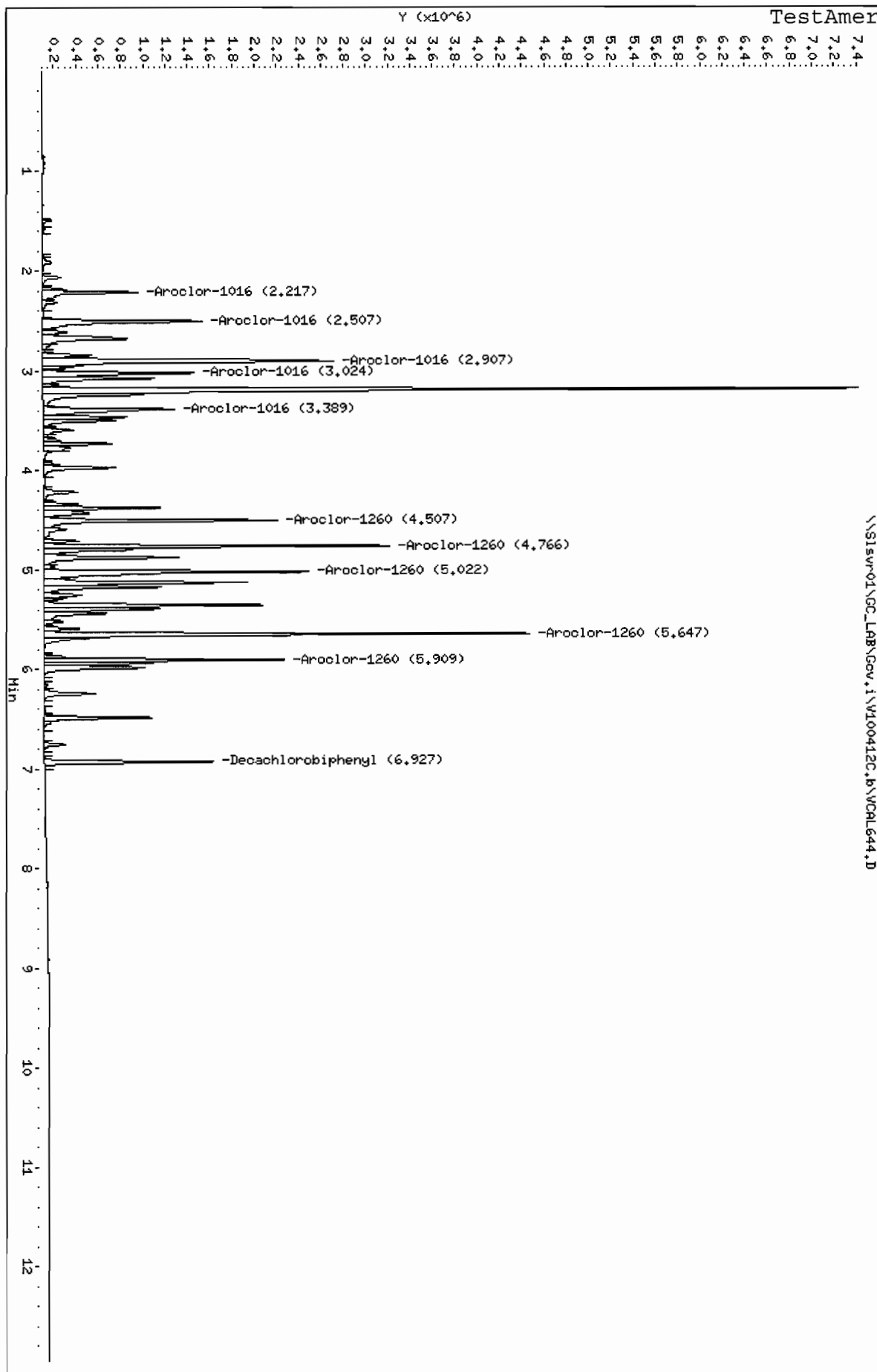
Column phase: CLPEST-1

Instrument: Gov.i

Operator: DEK

Column diameter: 0.53

Page 1





Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VCAL644.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i

Injection Date: 15-APR-2010 10:44

Lab File ID: VCAL644.D

Lab Sample ID: CCAL

Analysis Type: SOIL

Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\808:

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Aroclor-1016	1000.0000	1013.2001	1.3	20.0
486539264 Aroclor-1260	1000.0000	989.1874	1.1	20.0
570425344 Decachlorobiphenyl	50.0000	52.0244	4.0	20.0

Data File Name: VCAL644.D

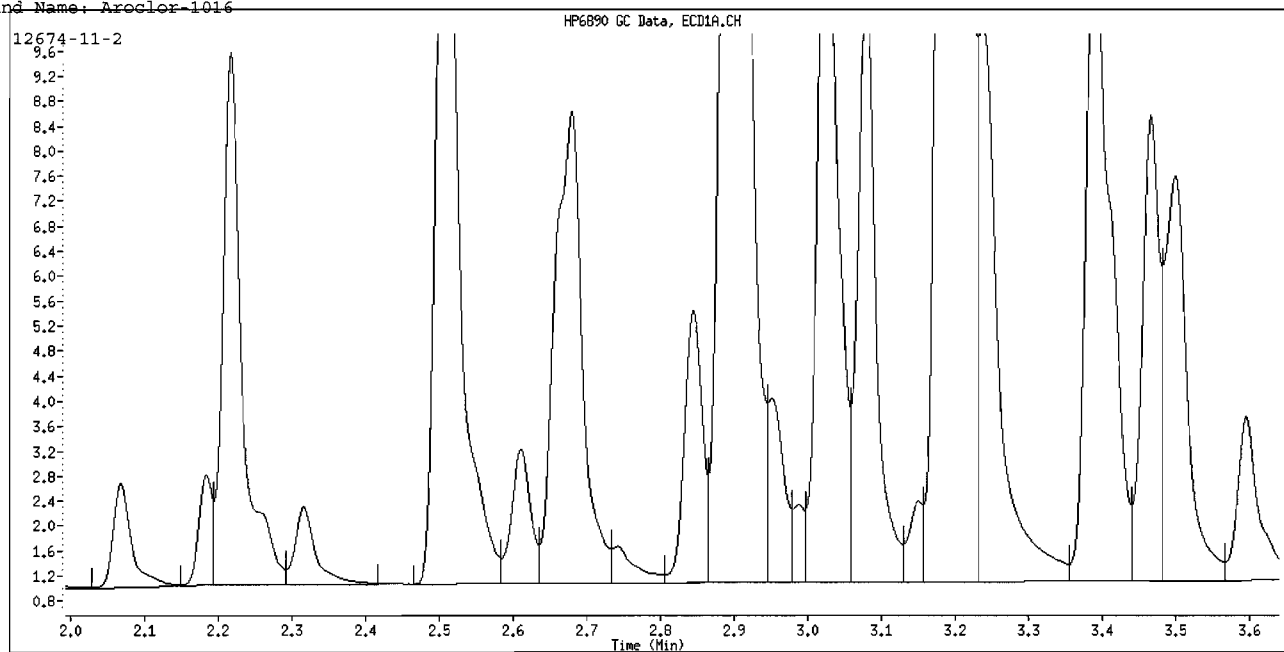
Inj. Date and Time: 15-APR-2010 10:44

Instrument ID: Gcv.i

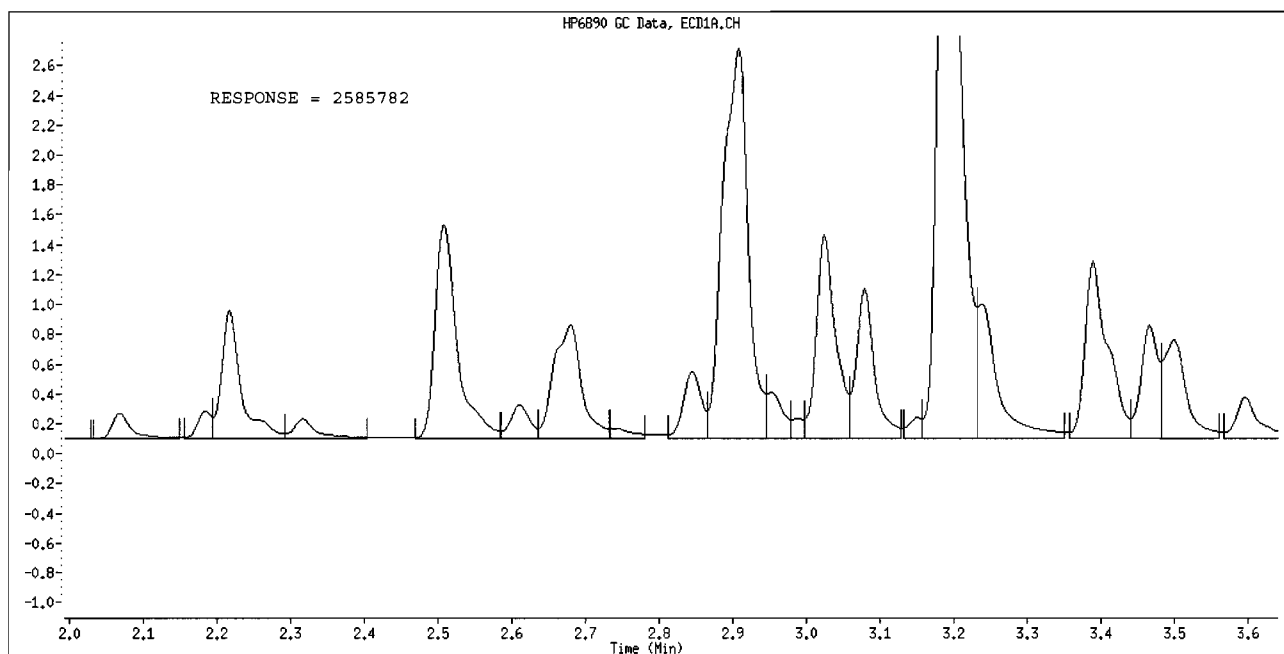
Client ID:

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL644.D

TestAmerica St. Louis

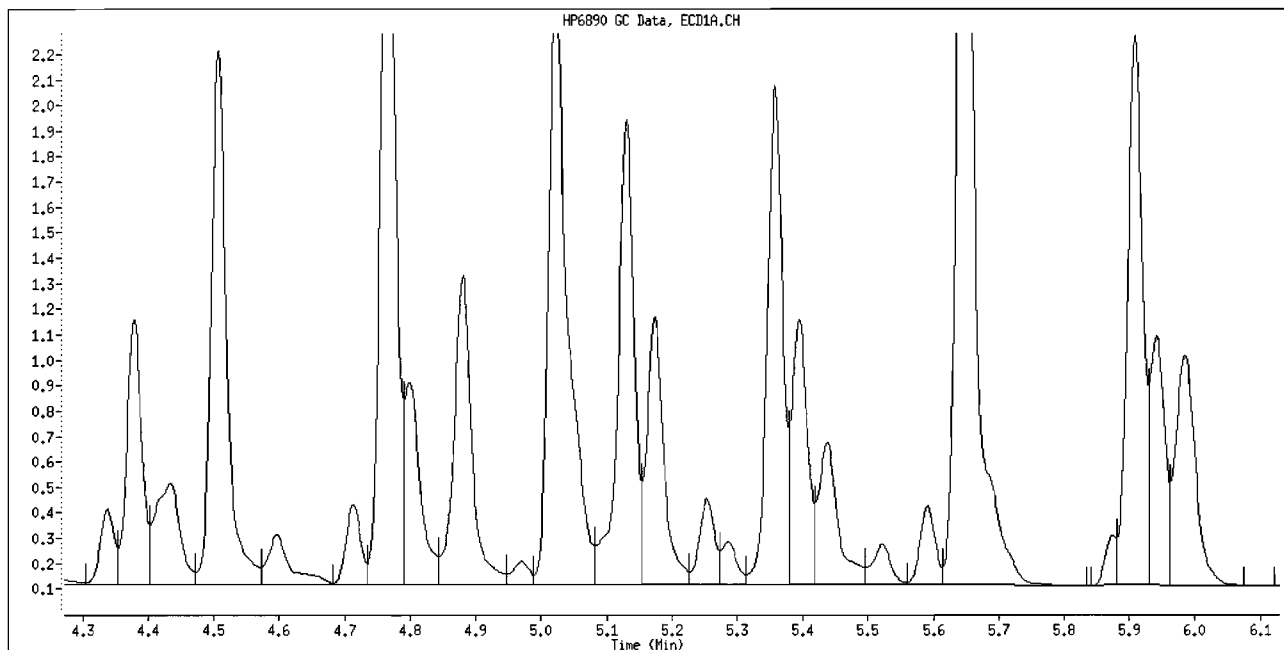
Inj. Date and Time: 15-APR-2010 10:44

Instrument ID: Gcv.i

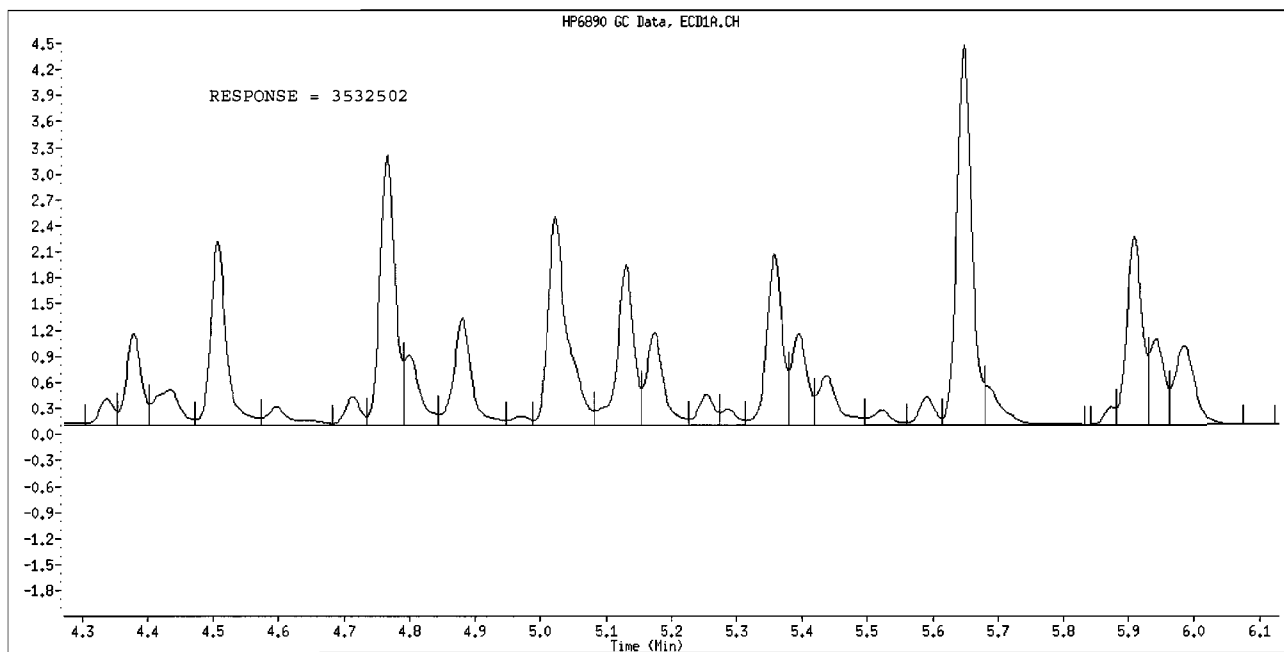
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL644.D

TestAmerica St. Louis

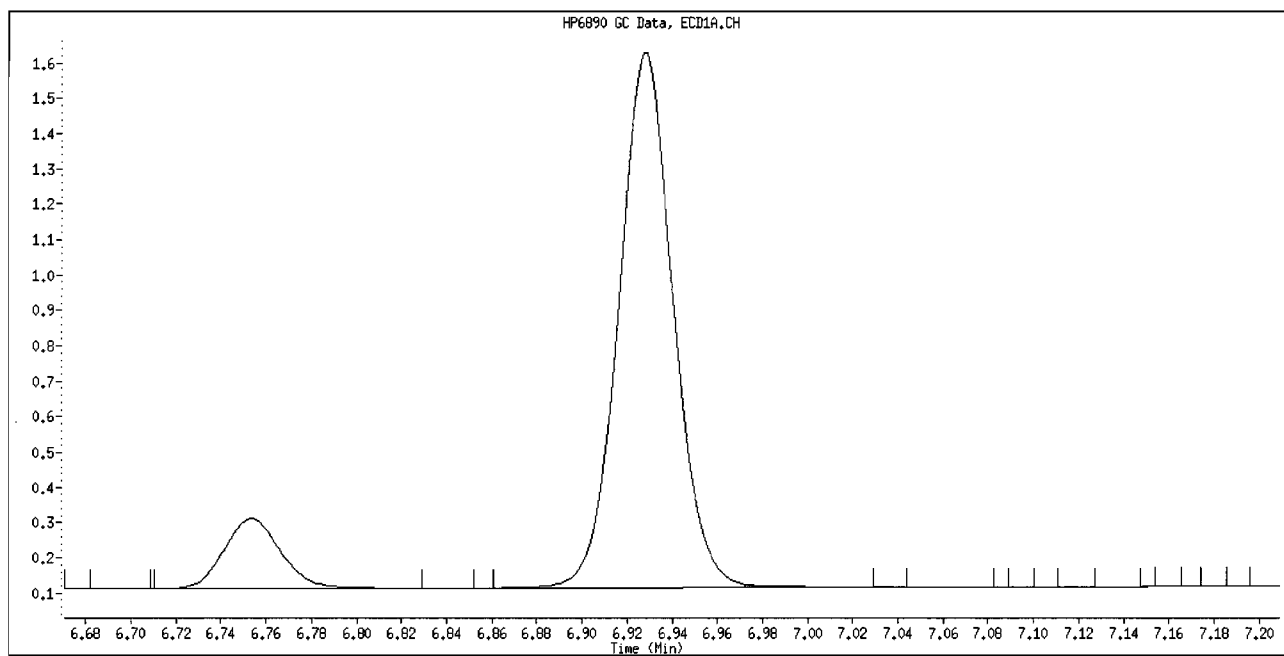
Inj. Date and Time: 15-APR-2010 10:44

Instrument ID: Gcv.i

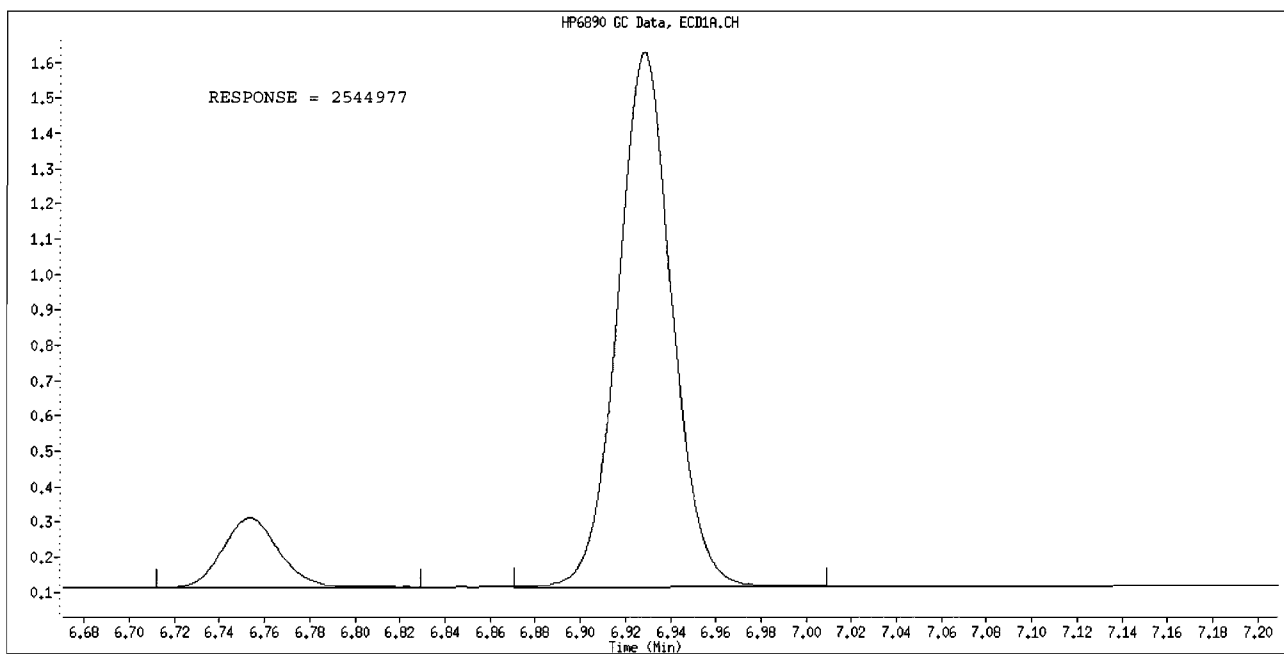
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL644.D  
 Report Date: 15-Apr-2010 15:04

TestAmerica St. Louis  
 Page 1

TestAmerica St. Louis

# CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Gcv.i Injection Date: 15-APR-2010 10:44  
 Lab File ID: VCAL644.D Init. Cal. Date(s): 26-MAR-2010 26-MAR-2010  
 Analysis Type: SOIL Init. Cal. Times: 09:49 14:09  
 Lab Sample ID: CCAL Quant Type: ESTD  
 Method: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m

COMPOUND	RRF / AMOUNT	RF1000	MIN	MAX	CURVE TYPE
22 Aroclor-1016(1)	2054	1976	0.010	3.79630	Averaged
(2)	4137	3826	0.010	7.51162	Averaged
(3)	8101	8437	0.010	-4.15597	Averaged
(4)	3327	3405	0.010	-2.32472	Averaged
(5)	2516	2527	0.010	-0.43253	Averaged
28 Aroclor-1260(1)	4708	4949	0.010	-5.13631	Averaged
(2)	5110	5533	0.010	-8.27624	Averaged
(3)	6444	7225	0.010	-12.12355	Averaged
(4)	4193	4563	0.010	-8.82975	Averaged
(5)	7897	9038	0.010	-14.44908	Averaged
\$ 32 Decachlorobiphenyl	48137	58311	0.010	-21.13525	Averaged<-

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL644.D  
 Report Date: 15-Apr-2010 15:04

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TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL644.D  
 Lab Smp Id: CCAL  
 Inj Date : 15-APR-2010 10:44  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : CCAL  
 Misc Info :  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 18 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: Ar1660.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE	(ng/mL)	(ng/mL)	TARGET RANGE
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016			CAS #: 12674-11-2			
2.803	2.805	-0.002	1975649	1000.00	962.0	80.00- 120.00 100.00 (M)
3.188	3.190	-0.002	3825927	1000.00	924.9	38.73- 348.58 193.65
3.628	3.630	-0.002	8437365	1000.00	1042	85.41- 768.72 427.07
3.757	3.760	-0.003	3404700	1000.00	1023	34.47- 310.20 172.33
4.205	4.206	-0.001	2526503	1000.00	1004	25.58- 230.19 127.88
Average of Peak Amounts =			991.180			
28 Aroclor-1260			CAS #: 11096-82-5			
5.408	5.411	-0.003	4949384	1000.00	1051	80.00- 120.00 100.00 (M)
5.605	5.608	-0.003	5532669	1000.00	1083	22.36- 201.21 111.79
5.943	5.946	-0.003	7225353	1000.00	1121	29.20- 262.77 145.98
6.308	6.311	-0.003	4563310	1000.00	1088	18.44- 165.96 92.20
6.543	6.546	-0.003	9038228	1000.00	1144	36.52- 328.70 182.61
Average of Peak Amounts =			1097.40			
\$ 32 Decachlorobiphenyl			CAS #:			
7.982	7.986	-0.004	2915543	50.0000	60.57	(M)

LOT # F0D080489

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Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL644.D  
Report Date: 15-Apr-2010 15:04

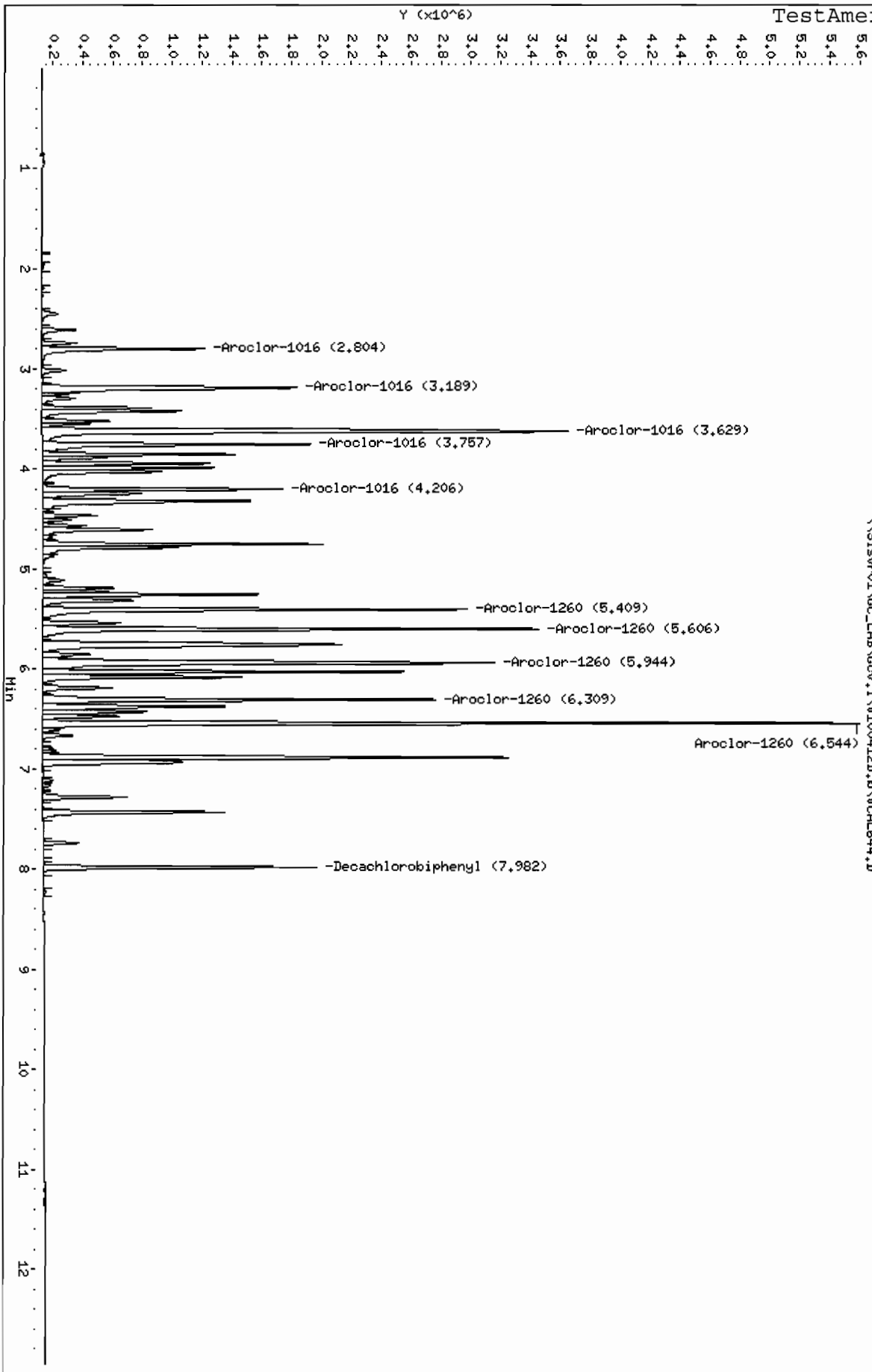
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gov.i\W100412D.b\WCAL644.D  
Date: 15-APR-2010 10:44  
Client ID:  
Sample Info: CCAL  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53





Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VCAL644.D TestAmerica St. Louis  
Report Date: 04/15/2010

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: Gcv.i  
Lab File ID: VCAL644.D  
Analysis Type: SOIL

Injection Date: 15-APR-2010 10:44  
Lab Sample ID: CCAL  
Method File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\808:

	EXPECTED	MEASURED		MAX
COMPOUND	CONC.	CONC.	%D	%D
=====	=====	=====	=====	=====
385875968 Aroclor-1016	1000.0000	991.2106	0.9	20.0
486539264 Aroclor-1260	1000.0000	1097.6299	9.8	20.0
570425344 Decachlorobiphenyl	50.0000	60.5676	21.1	20.0<-

Data File Name: VCAL644.D

Inj. Date and Time: 15-APR-2010 10:44

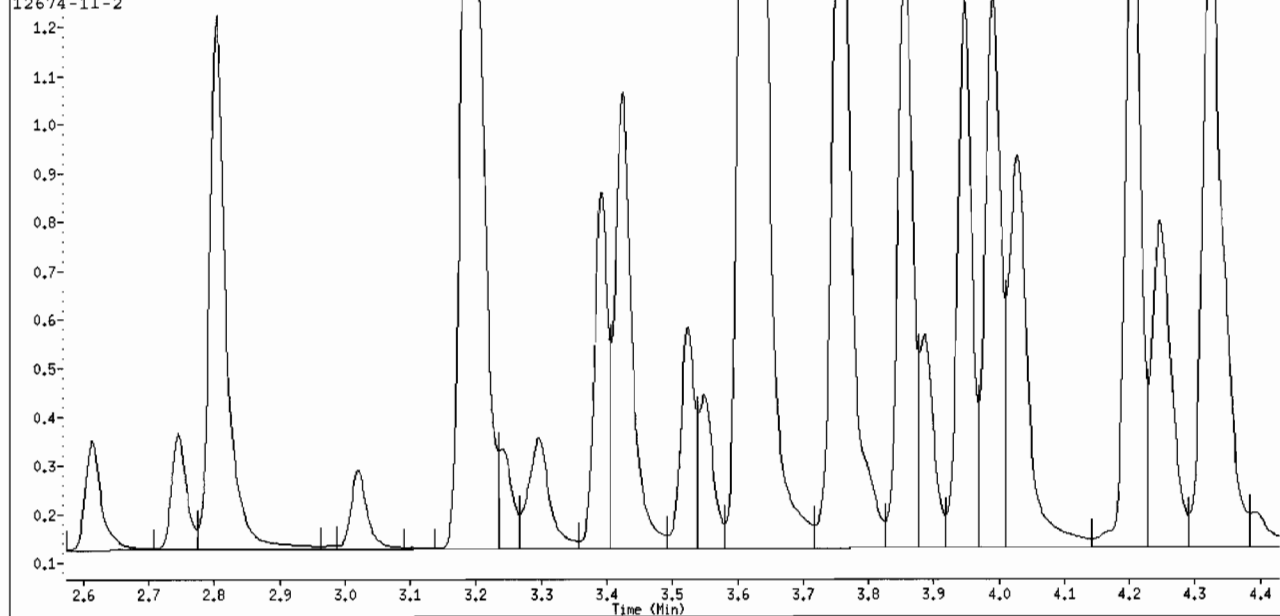
Instrument ID: Gcv.i

Client ID:

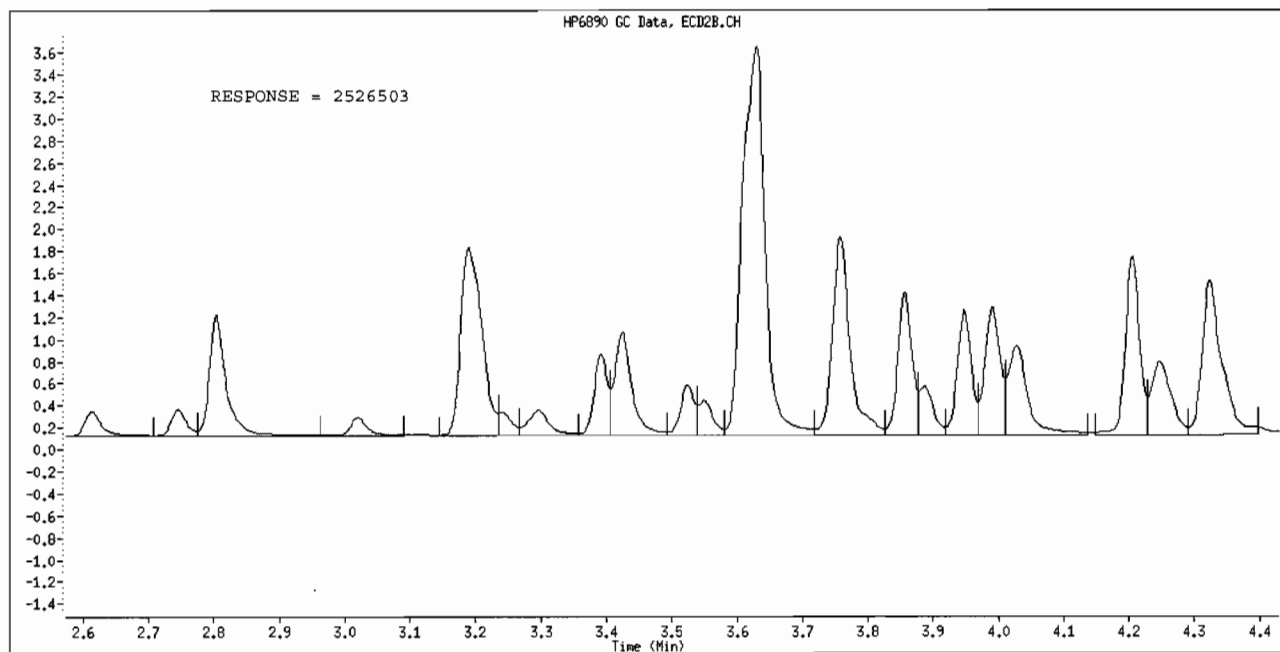
Compound Name: ~~Aroclor-1016~~

CAS #: 12674-11-2

HP6890 GC Data, ECD2B.CH



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL644.D

TestAmerica St. Louis

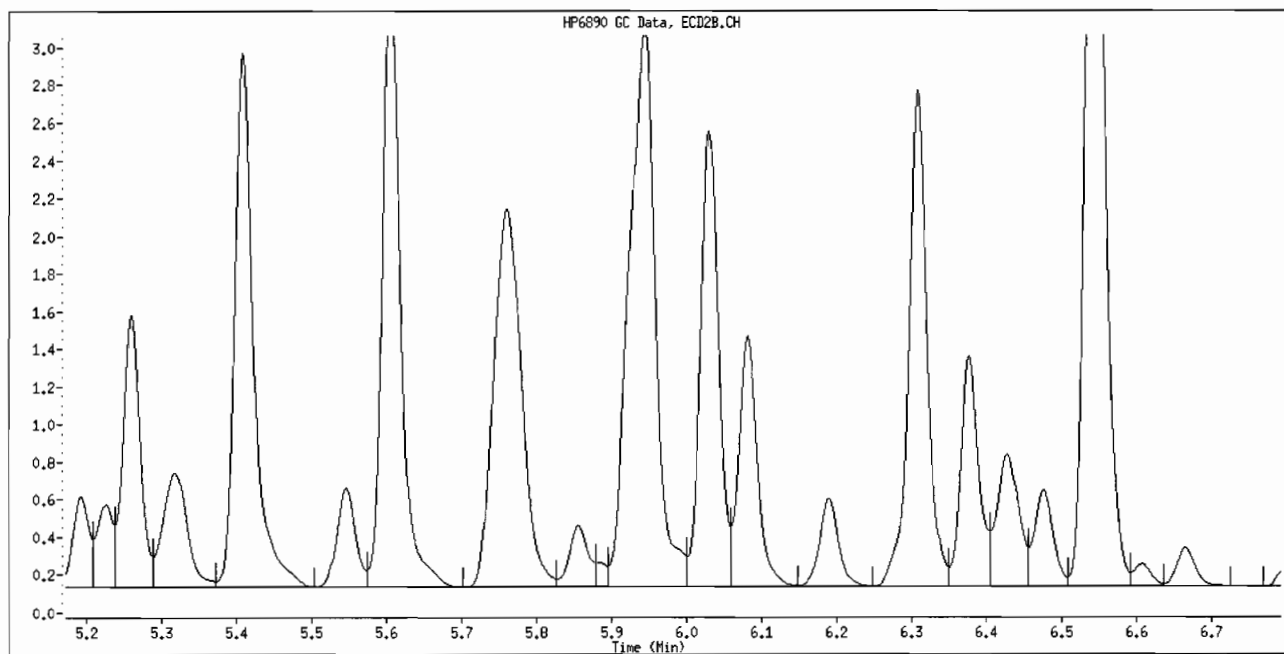
Inj. Date and Time: 15-APR-2010 10:44

Instrument ID: Gcv.i

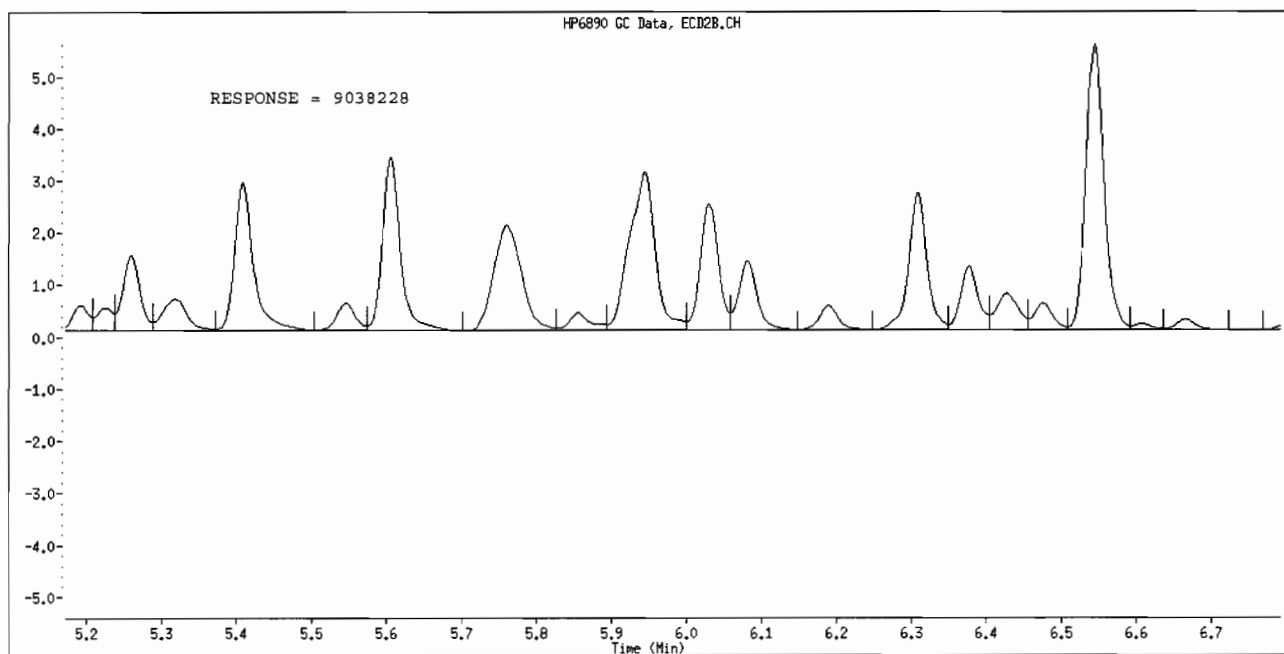
Client ID:

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VCAL644.D

TestAmerica St. Louis

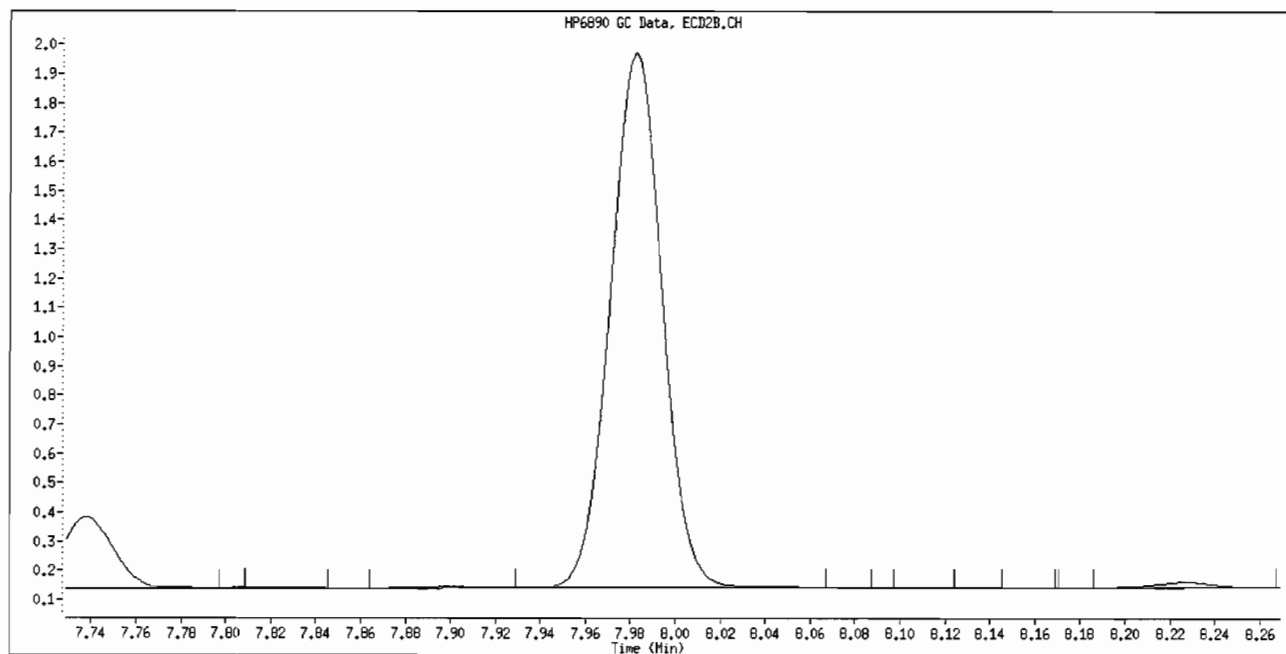
Inj. Date and Time: 15-APR-2010 10:44

Instrument ID: Gcv.i

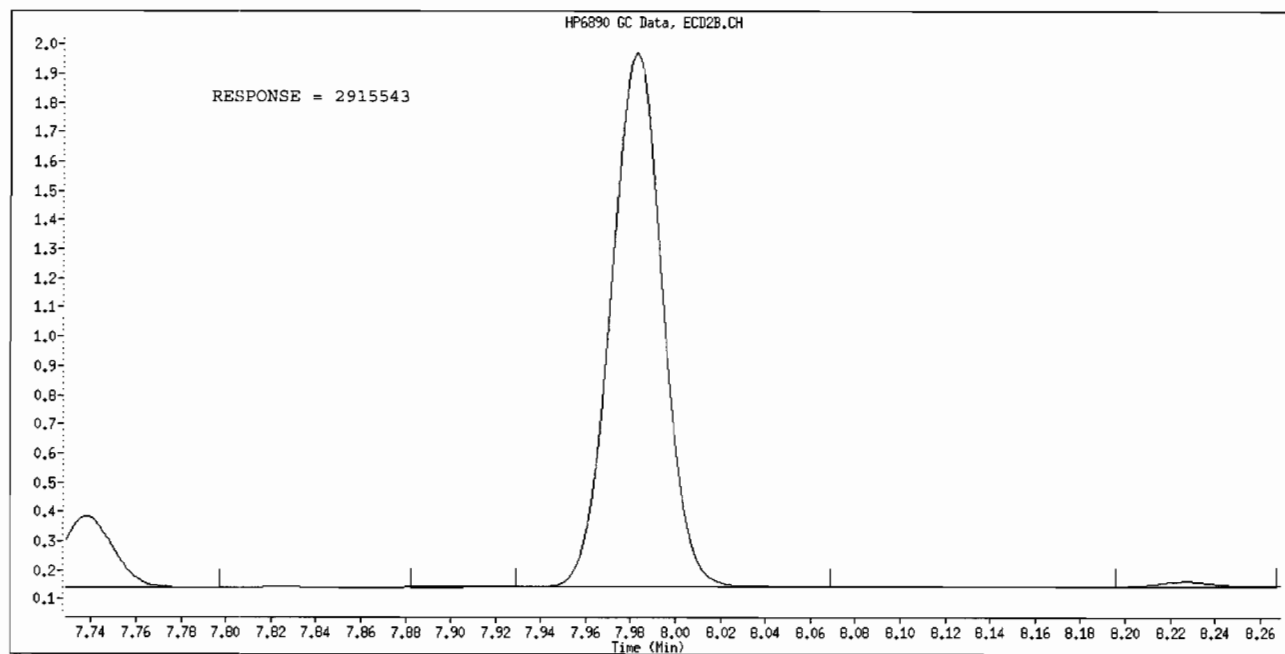
Client ID:

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

## **GC RAW SAMPLE DATA**

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP333.D  
 Report Date: 17-Apr-2010 10:45

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP333.D  
 Lab Smp Id: LXL41A9 Client Smp ID: WST32-10-13889  
 Inj Date : 16-APR-2010 20:31  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXL41A9  
 Misc Info : F0D070439-002  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====

28 Aroclor-1260			CAS #: 11096-82-5			
4.200	4.200	0.000	112968071	15945.7	5315 80.00- 120.00	100.00
4.459	4.457	0.002	228510141	18588.5	6196 140.39- 210.58	202.28
4.715	4.712	0.003	252996785	20565.0	6855 141.56- 212.35	223.95
5.337	5.335	0.002	327220590	16951.1	5650 221.01- 331.51	289.66
5.595	5.594	0.001	162567520	17819.9	5940 105.78- 158.67	143.91
Average of Peak Concentrations =				5991		

35 Aroclor-1262			CAS #: 37324-23-5			
4.200	4.199	0.001	112968071	20165.9	6722 80.00- 120.00	100.00
4.459	4.456	0.003	228510141	26723.6	8908 122.11- 183.17	202.28
4.822	4.819	0.003	135130085	10713.5	3571 180.12- 270.19	119.62
5.337	5.334	0.003	327220590	15158.5	5053 308.27- 462.41	289.66
5.629	5.628	0.001	56450495	5651.84	1884 142.64- 213.95	49.97
Average of Peak Concentrations =				5228		

36 Aroclor-1268			CAS #: 11100-14-4			
5.629	5.630	-0.001	56450495	2120.95	707.0 80.00- 120.00	100.00
5.670	5.665	0.005	70840326	2730.21	910.1 77.99- 116.98	125.49

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP333.D  
Report Date: 17-Apr-2010 10:45

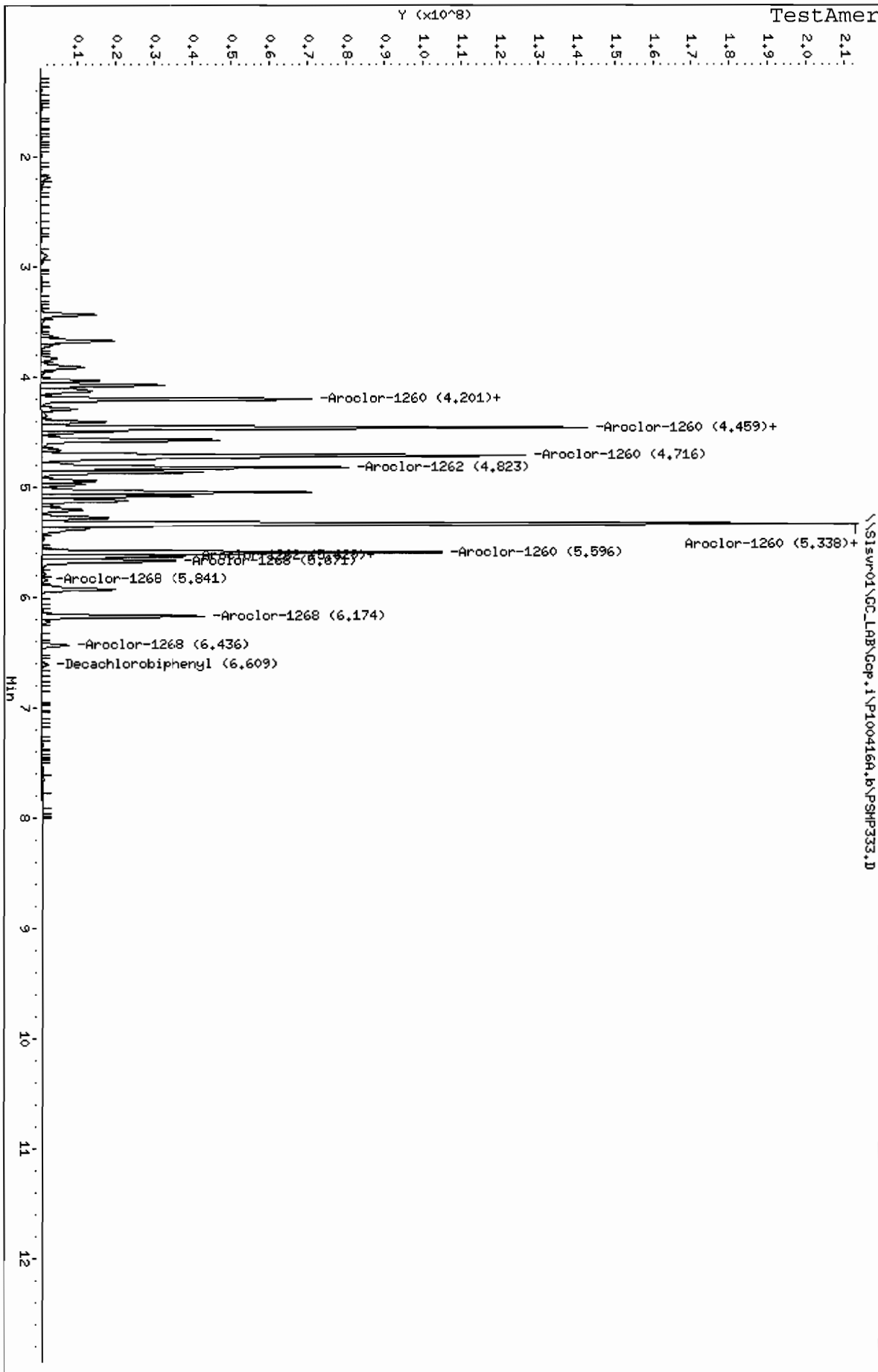
		CONCENTRATIONS							
		ON-COL		FINAL					
RT	EXP RT	DLT RT	RESPONSE	(ng/mL)	(ug/Kg)	TARGET	RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	=====	=====	
36 Aroclor-1268 (continued)									
5.840	5.843	-0.003	2564680	144.927	48.31	53.19-	79.79	4.54	
6.174	6.171	0.003	67268320	7784.03	2595	25.98-	38.96	119.16	
6.435	6.436	-0.001	11548776	243.488	81.16	142.56-	213.85	20.46	
Average of Peak Concentrations =					868.2				

-----  
\$ 32 Decachlorobiphenyl CAS #:  
6.609 6.609 0.000 2791766 20.3824 6.794  
-----

Data File: \\Slsrv01\GC\_LAB\Gcp.1\P100416A.b\PSHP333.D  
Date: 16-APR-2010 20:31  
Client ID: MST32-10-13889  
Sample Info: LXLRL41A9  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53

Page 1





Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP333.D  
 Report Date: 17-Apr-2010 15:06

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP333.D  
 Lab Smp Id: LXL41A9 Client Smp ID: WST32-10-13889  
 Inj Date : 16-APR-2010 20:31  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXL41A9  
 Misc Info : F0D070439-002  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

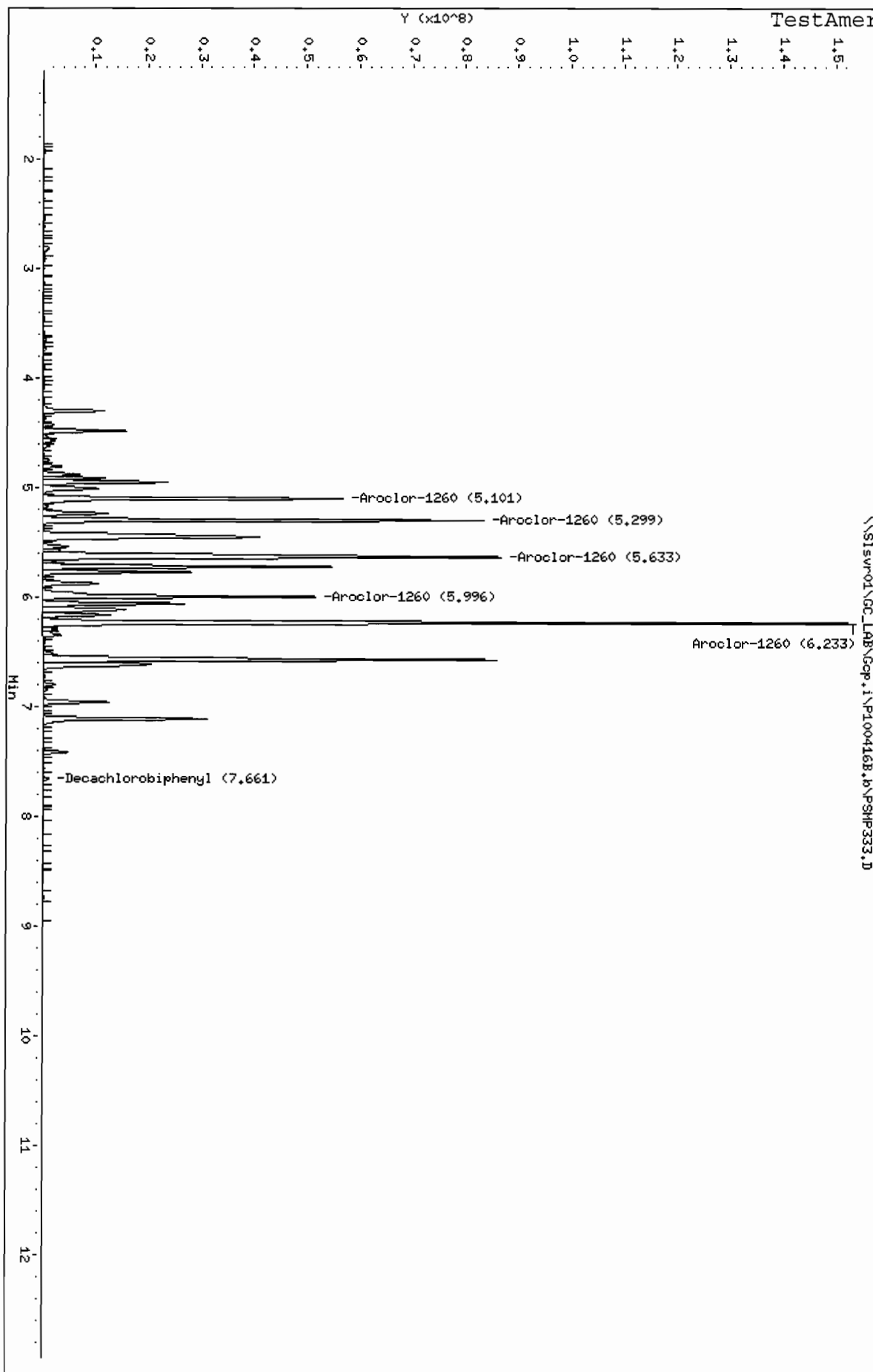
Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
28 Aroclor-1260			CAS #: 11096-82-5			
5.101	5.101	0.000	87723991 19149.9	6383	80.00- 120.00	100.00
5.299	5.299	0.000	120465493 21426.6	7142	24.85- 223.64	137.32
5.632	5.631	0.001	179574988 25169.9	8390	31.80- 286.22	204.70
5.996	5.994	0.002	86694626 19072.0	6357	20.05- 180.48	98.83
6.232	6.231	0.001	231267272 21186.8	7062	49.55- 445.94	263.63
Average of Peak Concentrations =				7067		
-----						
\$ 32 Decachlorobiphenyl			CAS #:			
7.661	7.659	0.002	2017065 23.6048	7.868		
-----						

Data File: \\SISVR01\GC\_LAB\Gcp.i\PI00416B.b\PSHP333.D  
 Date: 16-APR-2010 20:31  
 Client ID: MST32-10-13889  
 Sample Info: LXR41A9  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



FORM 10

Los Alamos National 07-APR-2010 00:00

PCB IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

WST32-10-13889

Lab Name: TESTAMERICA ST. LOUIS

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D070439

Lab Sample ID: LXL41A9

Date(s) Analyzed: 04/16/10 04/16/10

Instrument ID (1): GCP

Instrument ID (2): GCP

GC Column(1): CLPEST-1 ID: 0.53 (mm) GC Column(2): CLPEST-2 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	RPD
			FROM	TO			
Aroclor-1260	1	4.20	4.11	4.29	5315	5991	
	2	4.46	4.37	4.55	6196		
	3	4.72	4.62	4.80	6855		
	4	5.34	5.25	5.43	5650		
	5	5.60	5.50	5.68	5940		
COLUMN 1	1	5.10	5.01	5.19	6383	7067	16.5
	2	5.30	5.21	5.39	7142		
	3	5.63	5.54	5.72	8390		
	4	6.00	5.90	6.08	6357		
	5	6.23	6.14	6.32	7062		
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

page 1 of 1

PCB

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP635.D

Page 1

Report Date: 15-Apr-2010 13:33

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP635.D  
 Lab Smp Id: LXNJ91AF Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 07:57  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AF  
 Misc Info : F0D080489-001  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

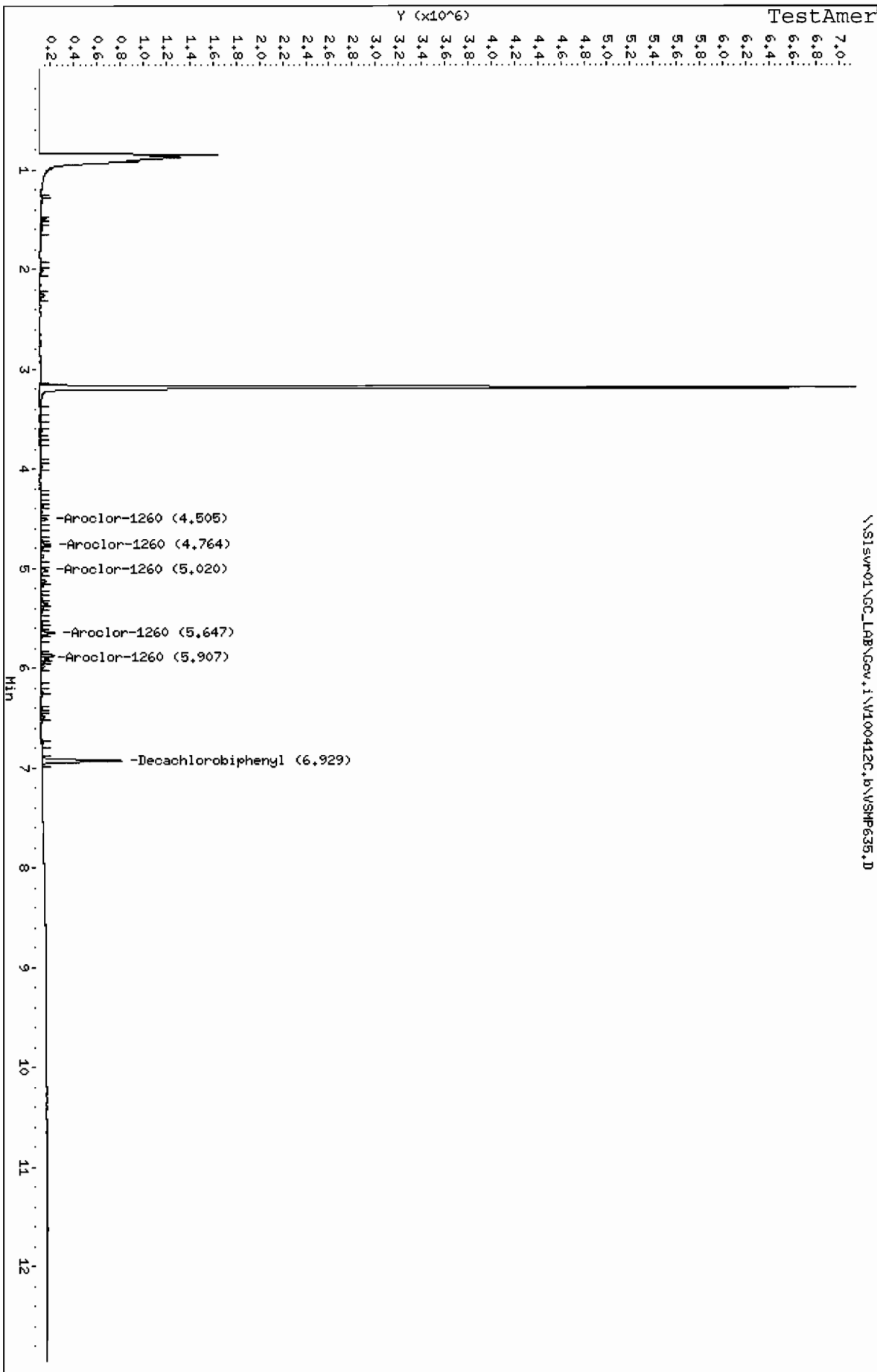
CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
28 Aroclor-1260			CAS #: 11096-82-5			
4.505	4.511	-0.006	94344 25.9480	8.649	80.00- 120.00	100.00 (aM)
4.763	4.770	-0.007	138622 27.2829	9.094	115.06- 172.58	146.93
5.020	5.028	-0.008	122757 22.8560	7.619	121.53- 182.30	130.12
5.646	5.651	-0.005	195801 28.3579	9.453	163.07- 244.60	207.54
5.906	5.913	-0.007	104561 29.5267	9.842	81.24- 121.86	110.83
Average of Peak Concentrations =			8.931			
-----						
\$ 32 Decachlorobiphenyl			CAS #:			
6.928	6.933	-0.005	1127032 23.0388	7.680		(M)
-----						

## QC Flag Legend

- a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).  
 M - Compound response manually integrated.

Data File: \\Sisvr01\CC\_LAB\Gov.i\1100412C.b\VSHP635.D  
Date: 15-APR-2010 07:57  
Client ID: RE12-10-15444  
Sample Info: LXMJ91AF  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



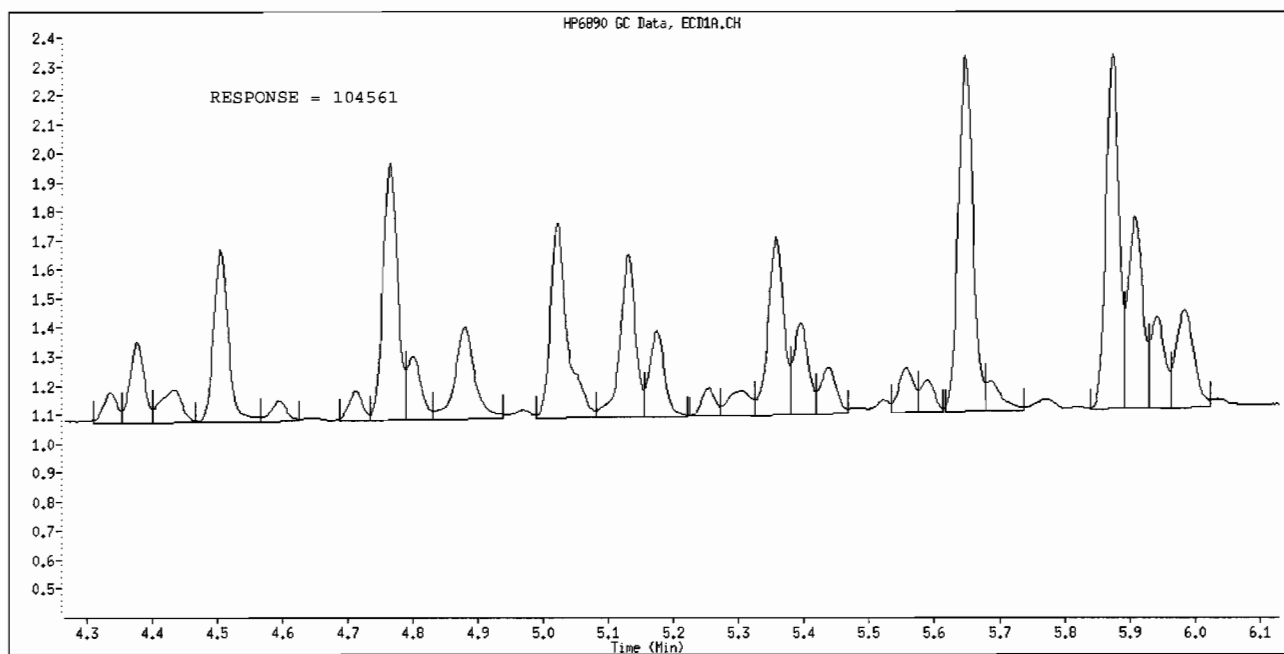
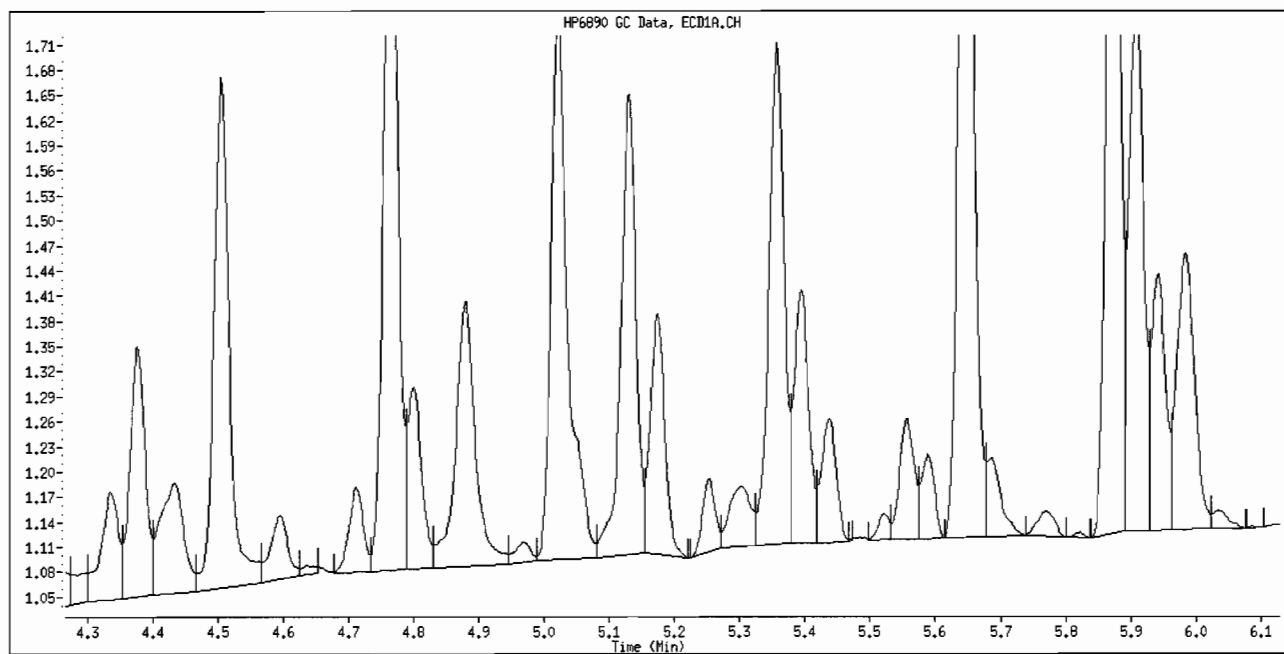
Inj. Date and Time: 15-APR-2010 07:57

Instrument ID: Gcv.i

Client ID: RE12-10-15444

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP635.D

TestAmerica St. Louis

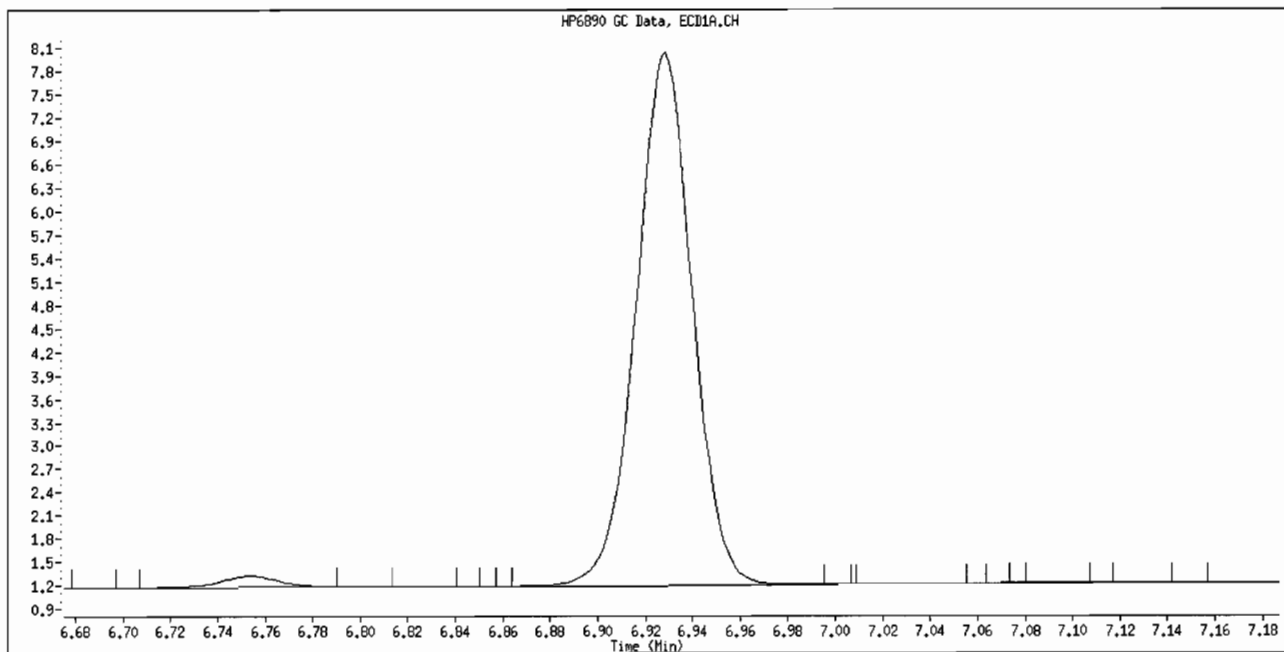
Inj. Date and Time: 15-APR-2010 07:57

Instrument ID: Gcv.i

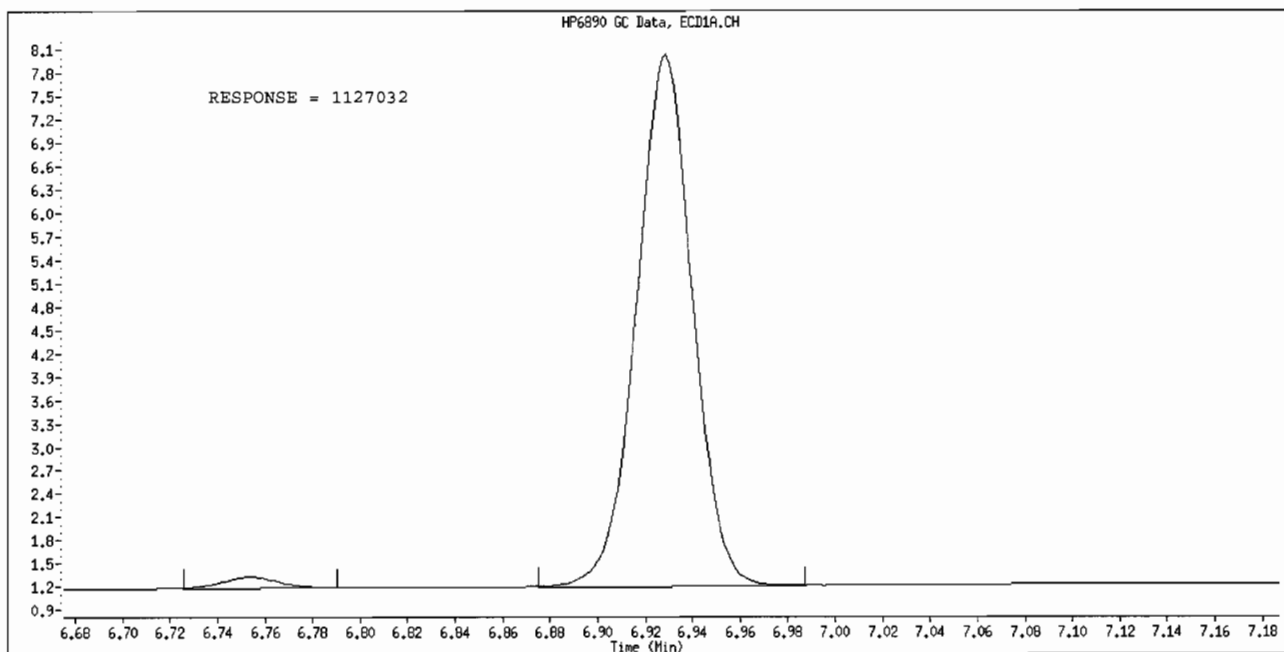
Client ID: RE12-10-15444

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP635.D

Page 1

Report Date: 15-Apr-2010 15:24

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP635.D  
 Lab Smp Id: LXNJ91AF Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 07:57  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AF  
 Misc Info : F0D080489-001  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
28 Aroclor-1260			CAS #: 11096-82-5			
5.408	5.411	-0.003	130165 27.6500	9.217	80.00- 120.00	100.00 (M)
5.606	5.608	-0.002	152834 29.9101	9.970	22.36- 201.21	117.42
5.943	5.946	-0.003	197041 30.5770	10.19	29.20- 262.77	151.38
6.308	6.311	-0.003	141943 33.8518	11.28	18.44- 165.96	109.05
6.543	6.546	-0.003	255662 32.3739	10.79	36.52- 328.70	196.41
Average of Peak Concentrations =				10.29		

\$ 32 Decachlorobiphenyl			CAS #:			
7.983	7.986	-0.003	1283277 26.6589	8.886		(M)

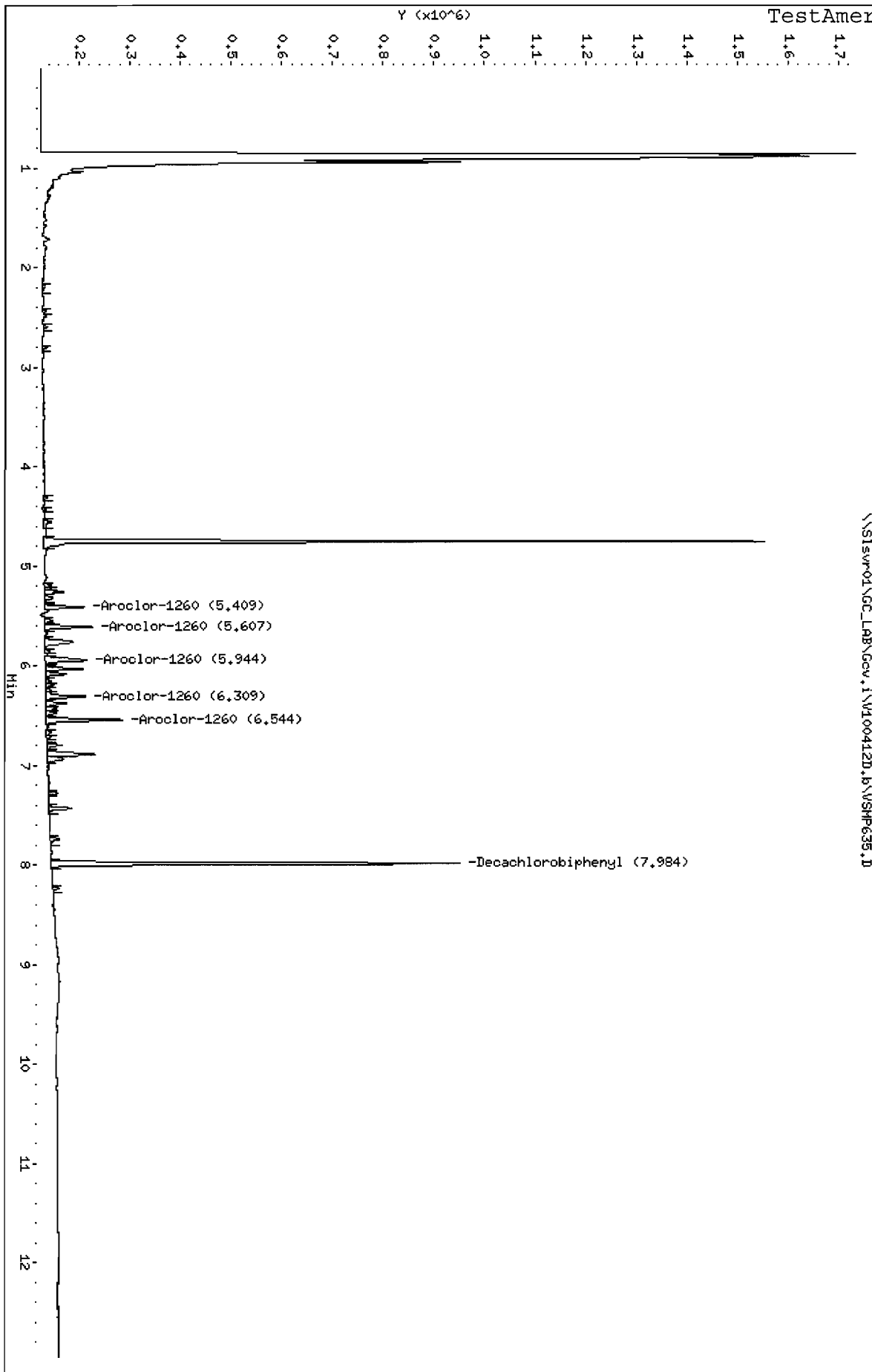
## QC Flag Legend

M - Compound response manually integrated.



Data File: \\SISvr01\NC\_LAB\Gov.i\1100412D.b\VSHP635.D  
 Date: 15-APR-2010 07:57  
 Client ID: RE12-10-15444  
 Sample Info: LXMJ91AF  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: VSMP635.D

TestAmerica St. Louis

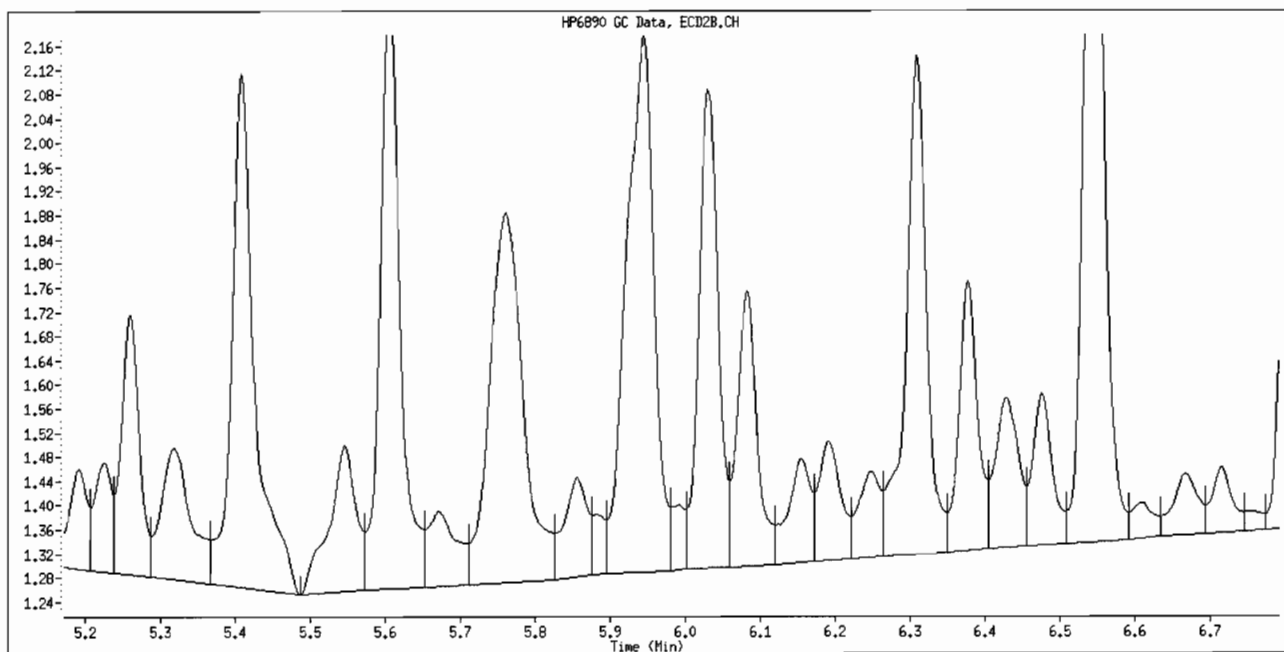
Inj. Date and Time: 15-APR-2010 07:57

Instrument ID: Gcv.i

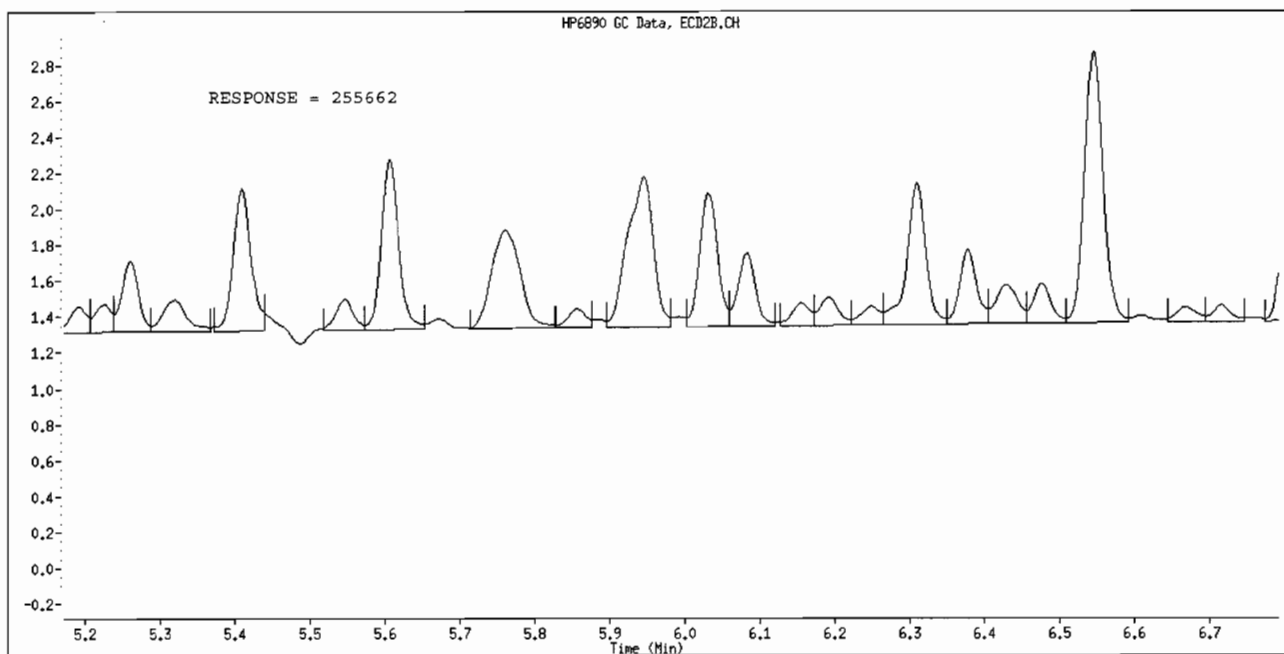
Client ID: RE12-10-15444

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP635.D

TestAmerica St. Louis

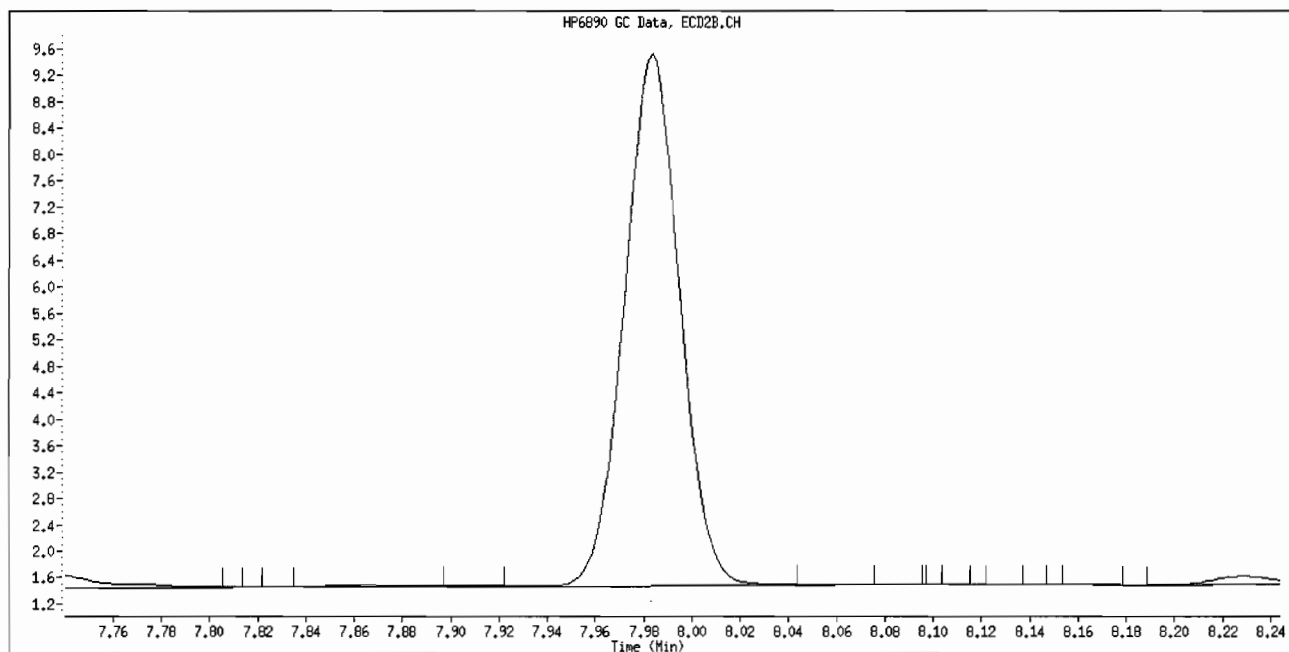
Inj. Date and Time: 15-APR-2010 07:57

Instrument ID: Gcv.i

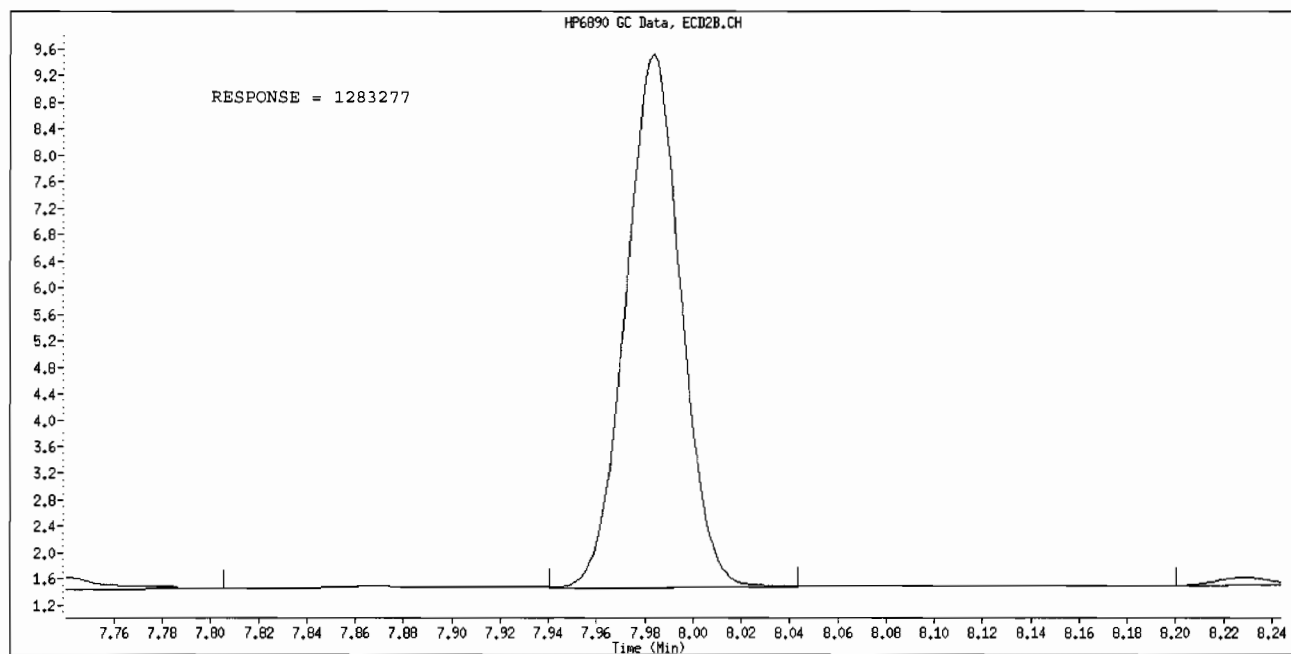
Client ID: RE12-10-15444

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

PCB IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

RE12-10-15444

Lab Name: TESTAMERICA ST. LOUIS

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D080489

Lab Sample ID: LXNJ91AF

Date(s) Analyzed: 04/15/10 04/15/10

Instrument ID (1): GCV

Instrument ID (2): GCV

GC Column(1): CLPEST-1 ID: 0.53 (mm) GC Column(2): CLPEST-2 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	RPD
			FROM	TO			
Aroclor-1260	1	4.51	4.42	4.60	8.649	8.931	
	2	4.76	4.68	4.86	9.094		
	3	5.02	4.94	5.12	7.619		
	4	5.65	5.56	5.74	9.453		
	5	5.91	5.82	6.00	9.842		
COLUMN 1	1	5.41	5.32	5.50	9.217	10.29	14.1
	2	5.61	5.52	5.70	9.970		
	3	5.94	5.86	6.04	10.19		
	4	6.31	6.22	6.40	11.28		
	5	6.54	6.46	6.64	10.79		
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

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PCB

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP638.D

Page 1

Report Date: 15-Apr-2010 13:36

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP638.D  
 Lab Smp Id: LXNKC1AF Client Smp ID: RE12-10-15443  
 Inj Date : 15-APR-2010 08:52  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNKC1AF  
 Misc Info : F0D080489-002  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

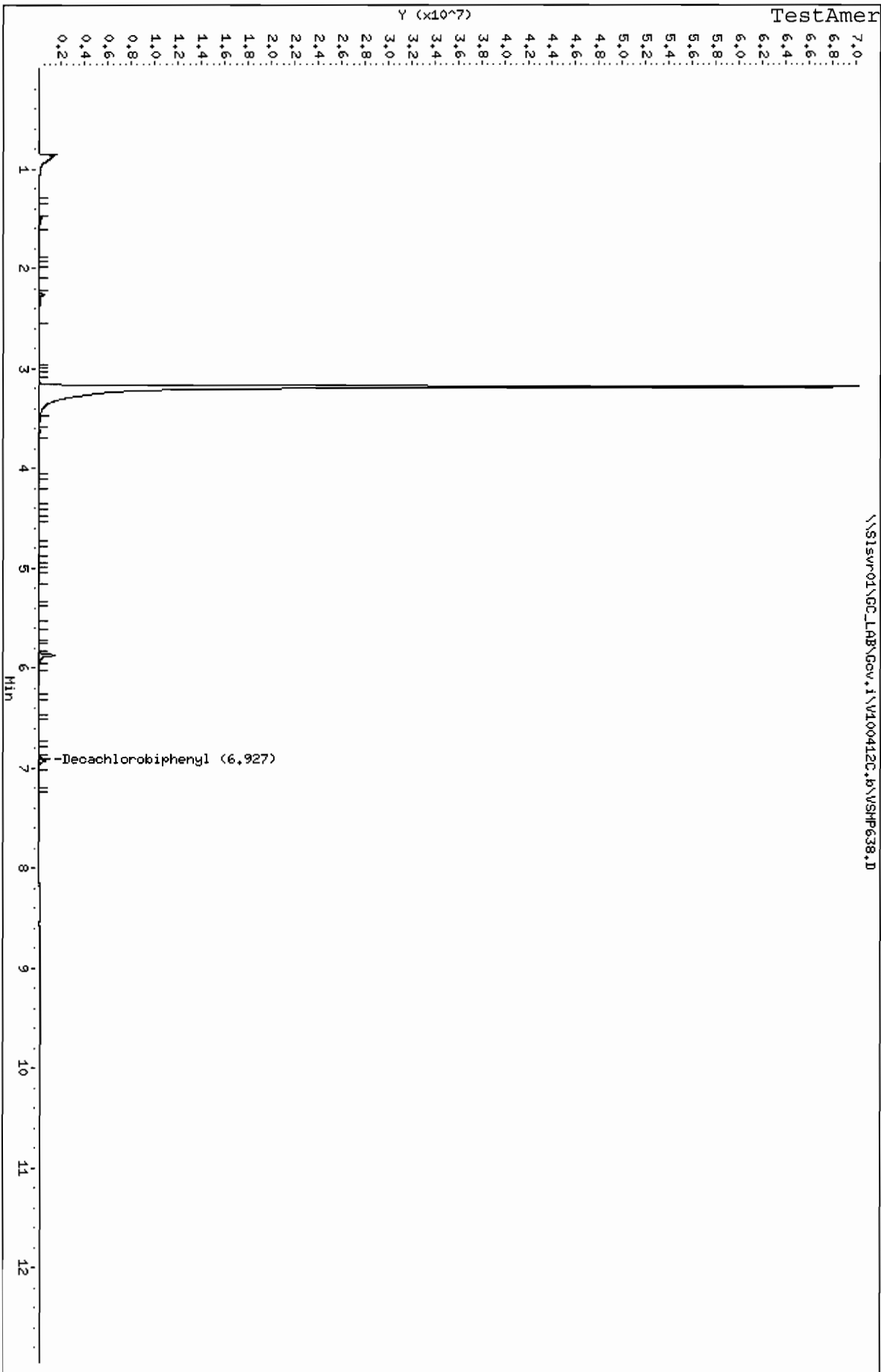
CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
\$ 32	Decachlorobiphenyl			CAS #:		
6.926	6.933	-0.007	934971 19.1127	6.371		(M)

## QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gov.i\VA100412C.b\VSHF638.D  
Date: 15-APR-2010 08:52  
Client ID: RE12-10-15443  
Sample Info: LMKC1AF  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



Data File Name: VSMP638.D

TestAmerica St. Louis

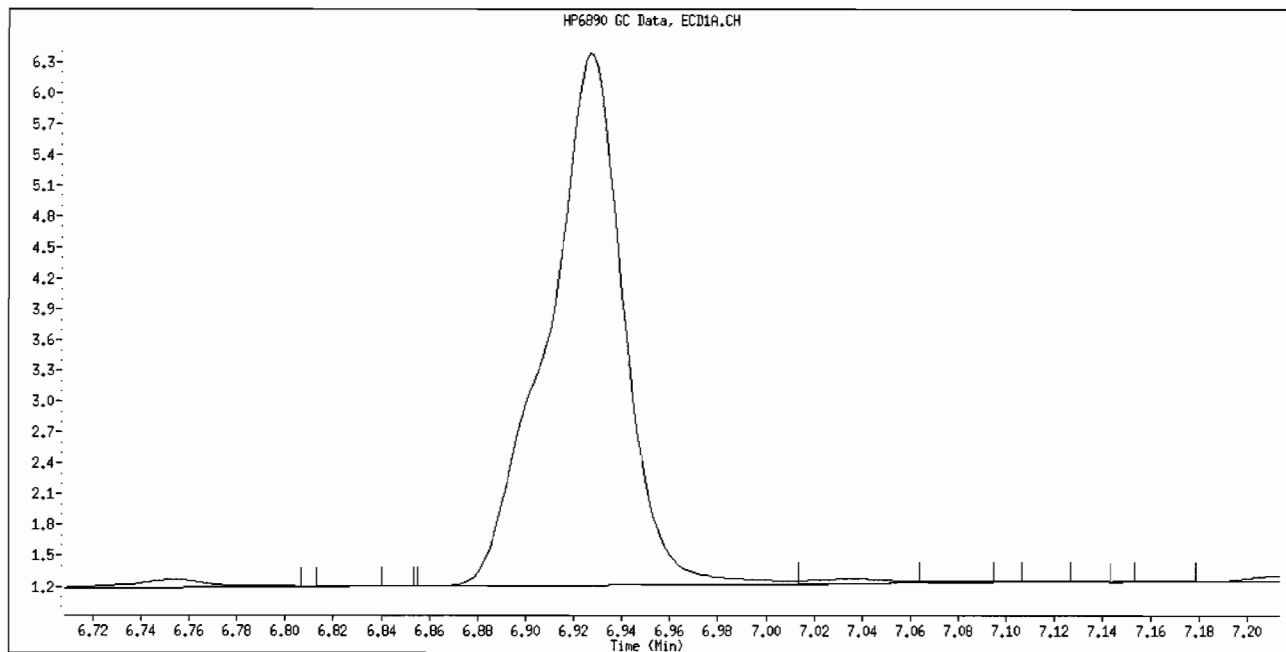
Inj. Date and Time: 15-APR-2010 08:52

Instrument ID: Gcv.i

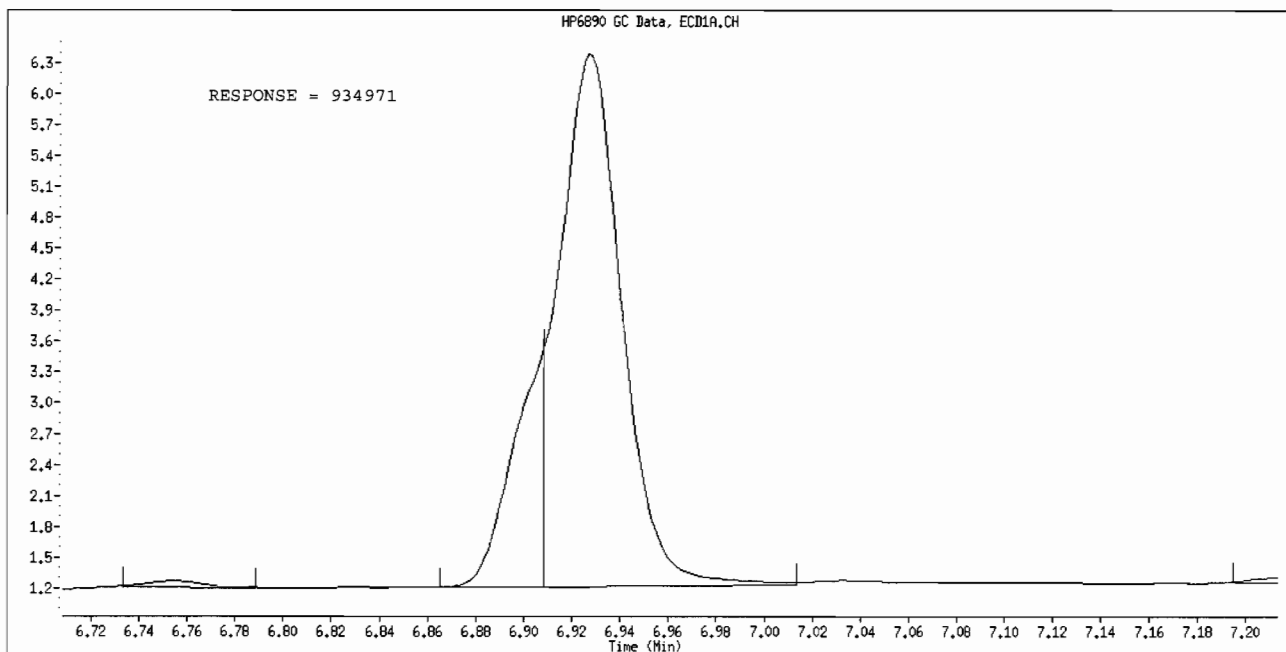
Client ID: RE12-10-15443

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Split Peak

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP336.D  
 Report Date: 17-Apr-2010 10:47

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP336.D  
 Lab Smp Id: LXNKE1AF Client Smp ID: RE12-10-15442  
 Inj Date : 16-APR-2010 21:28  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXNKE1AF  
 Misc Info : F0D080489-003  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
27 Aroclor-1254			CAS #: 11097-69-1			
3.434	3.436	-0.002	165006 35.5662	11.86	80.00- 120.00	100.00 (aM)
3.671	3.672	-0.001	174938 23.3034	7.768	129.45- 194.17	106.02
4.027	4.032	-0.005	354300 40.6862	13.56	150.16- 225.24	214.72
4.457	4.459	-0.002	292234 41.1348	13.71	122.50- 183.76	177.11
4.712	4.714	-0.002	500664 49.5371	16.51	174.28- 261.42	303.42
Average of Peak Concentrations =			12.68			

\$ 32 Decachlorobiphenyl			CAS #:			
6.609	6.609	0.000	2823912 20.6171	6.872		

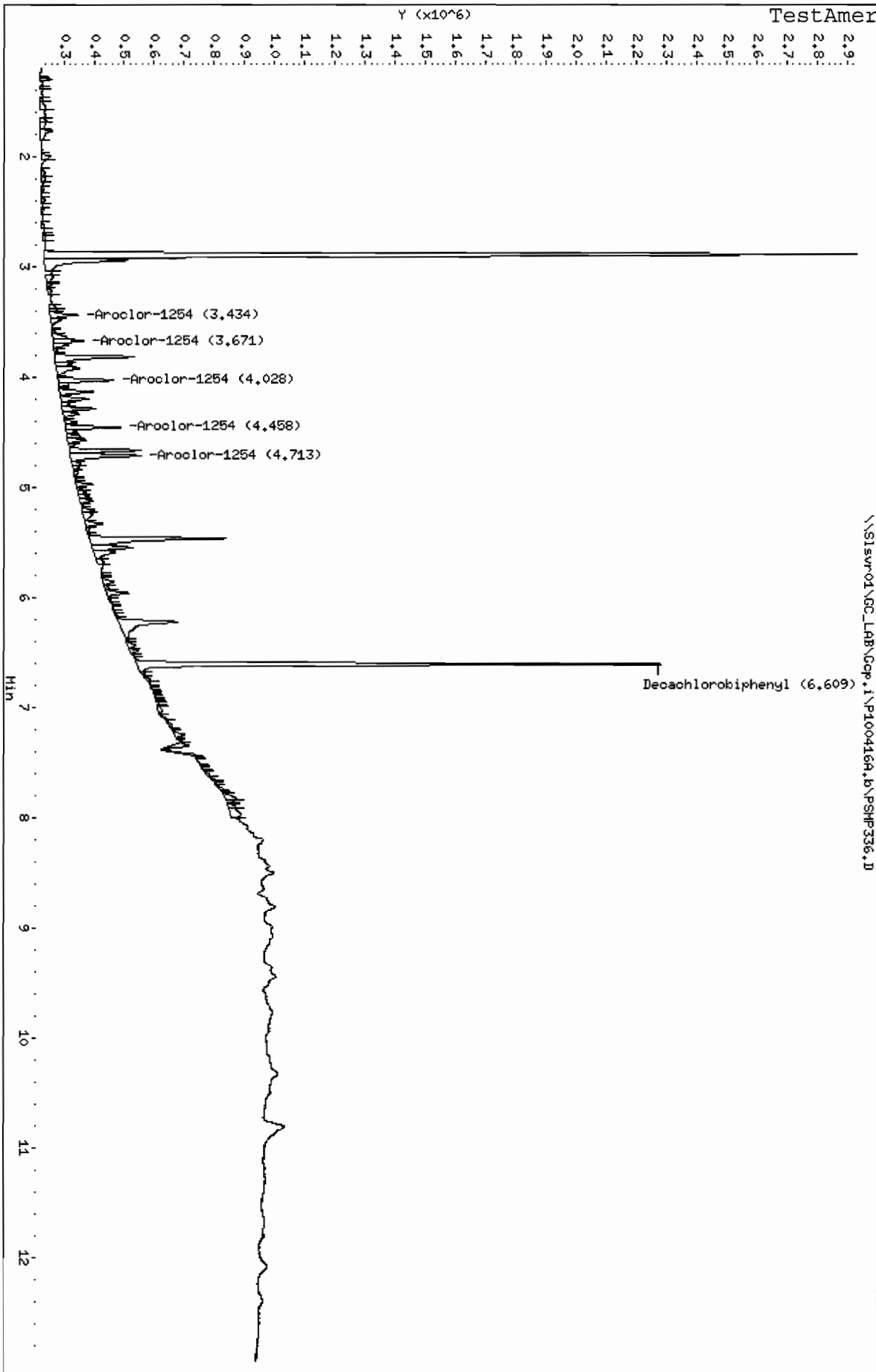
## QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



Data File: \\Slsrv01\GC\_LAB\Gcp.i\P100416A.b\PSHP336.D  
Date: 16-APR-2010 21:28  
Client ID: RE12-10-15442  
Sample Info: LYNKEIAF  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcp.i  
Operator: DEK  
Column diameter: 0.53



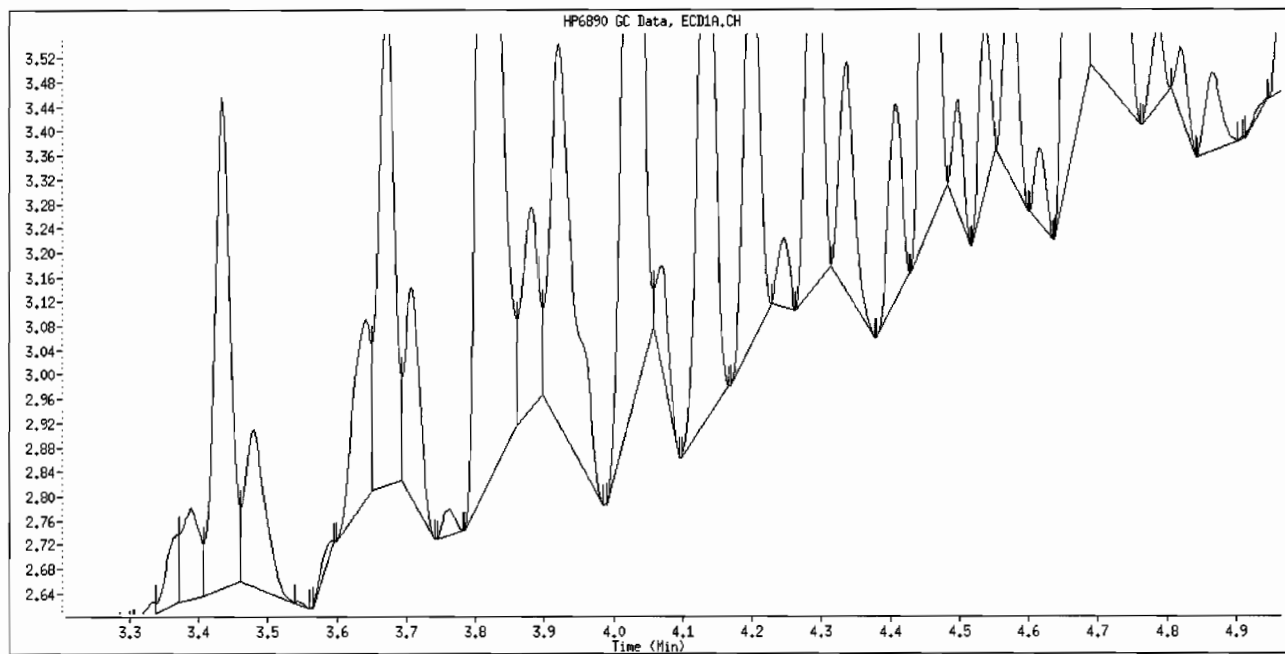
Inj. Date and Time: 16-APR-2010 21:28

Instrument ID: Gcp.i

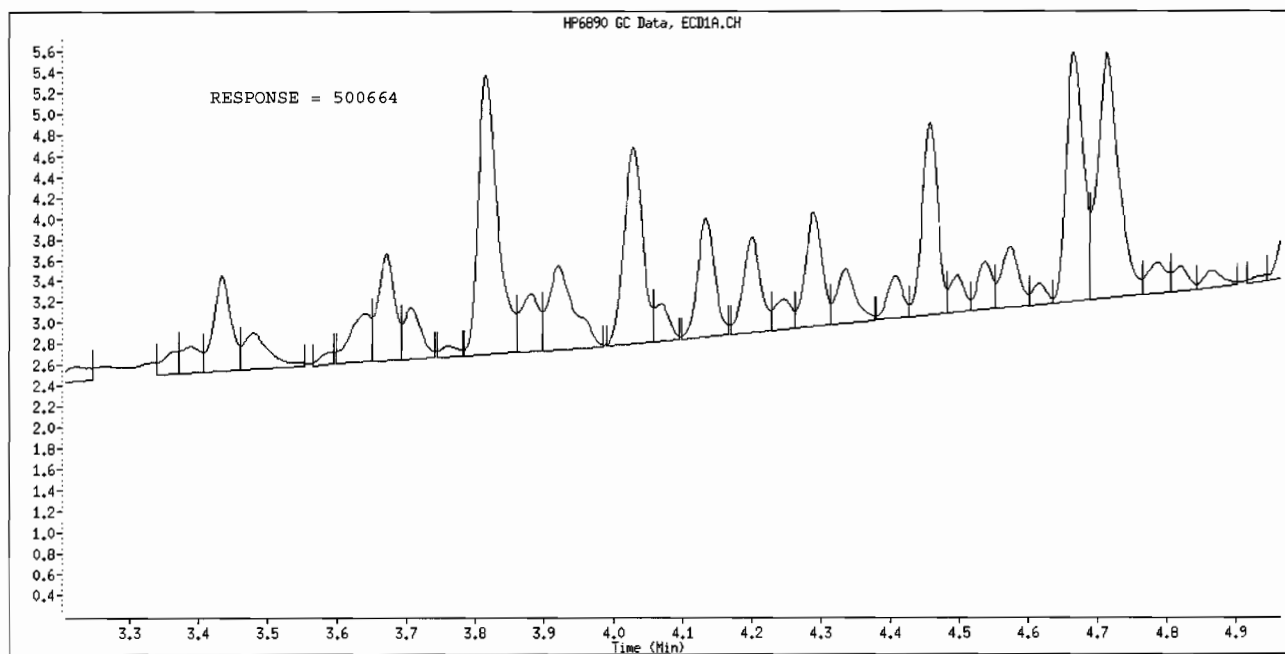
Client ID: RE12-10-15442

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP336.D

Page 1

Report Date: 17-Apr-2010 15:07

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP336.D  
 Lab Smp Id: LXNKE1AF Client Smp ID: RE12-10-15442  
 Inj Date : 16-APR-2010 21:28  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXNKE1AF  
 Misc Info : F0D080489-003  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$ 

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
27 Aroclor-1254			CAS #: 11097-69-1			
4.301	4.303	-0.002	147341 42.5402	14.18	20.00- 180.00	100.00 (M)
4.484	4.484	0.000	124046 31.9761	10.66	22.40- 201.61	84.19
4.916	4.916	0.000	148818 26.8475	8.949	32.01- 288.07	101.00
5.452	5.456	-0.004	89777 18.9111	6.304	27.41- 246.72	60.93
5.632	5.633	-0.001	264589 45.2054	15.07	33.80- 304.18	179.58
Average of Peak Concentrations =			11.03			

\$ 32 Decachlorobiphenyl			CAS #:			
7.659	7.659	0.000	1753798 20.5239	6.841		(M)

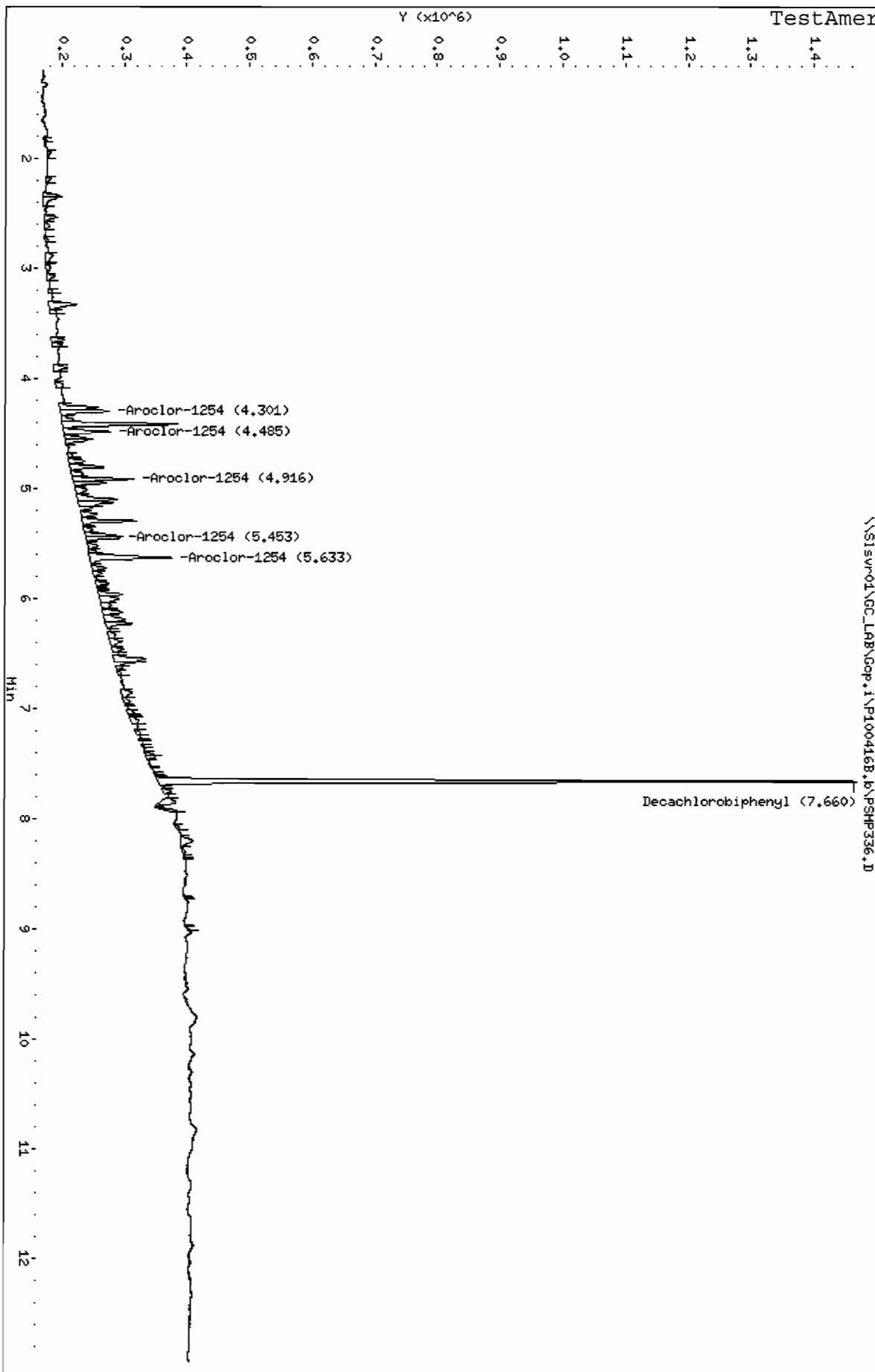
## QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsvr01\GC\_LAB\Gcp.1\P100416B.b\PSHP336.D  
Date: 16-APR-2010 21:28  
Client ID: RE12-10-15442  
Sample Info: LNHKE1AF  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53

Page 1



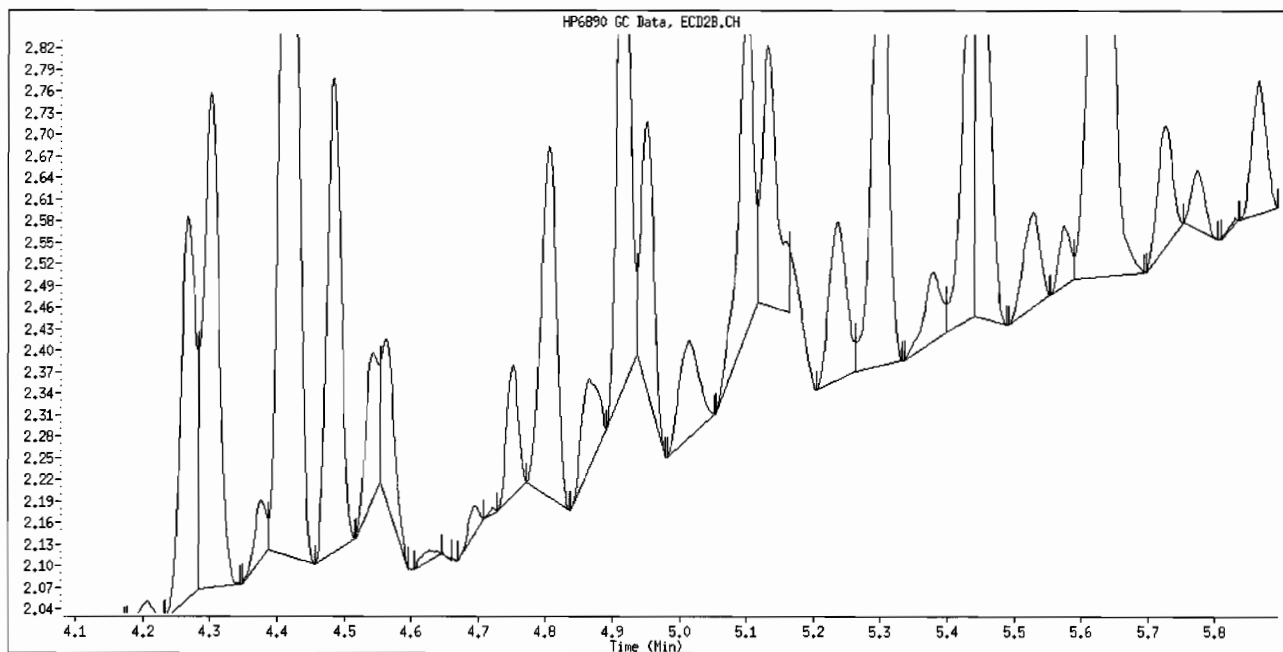
Inj. Date and Time: 16-APR-2010 21:28

Instrument ID: Gcp.i

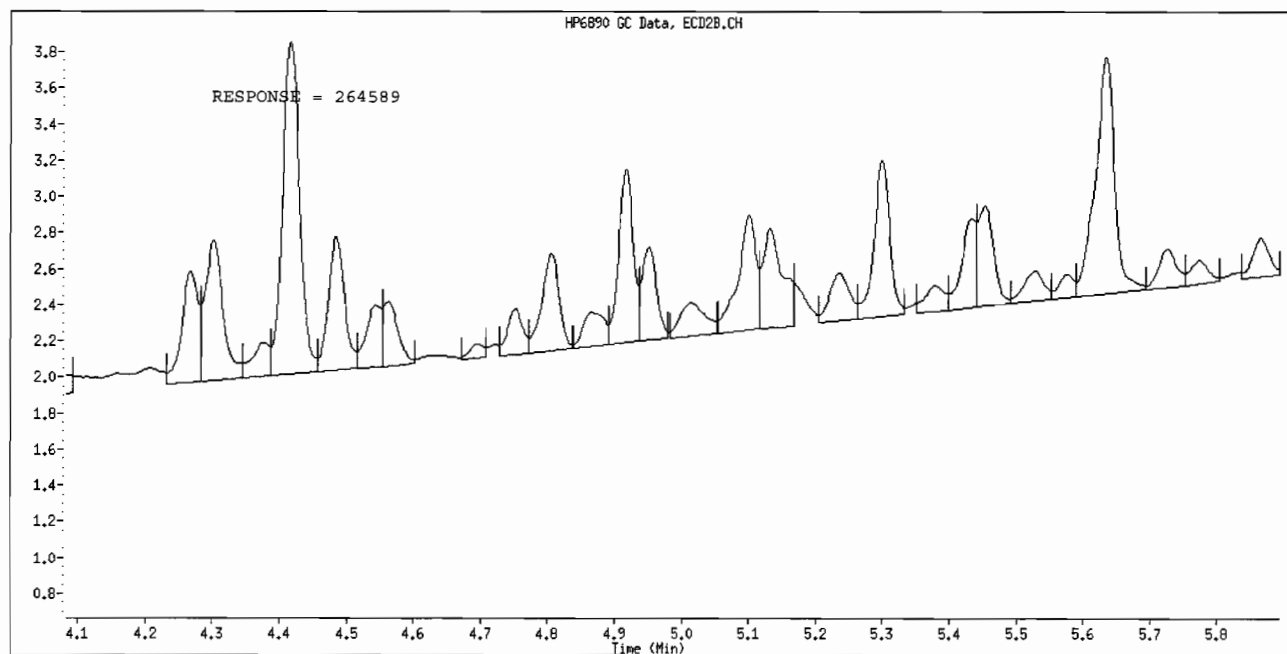
Client ID: RE12-10-15442

Compound Name: Aroclor-1254

CAS #: 11097-69-1



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PSMP336.D

TestAmerica St. Louis

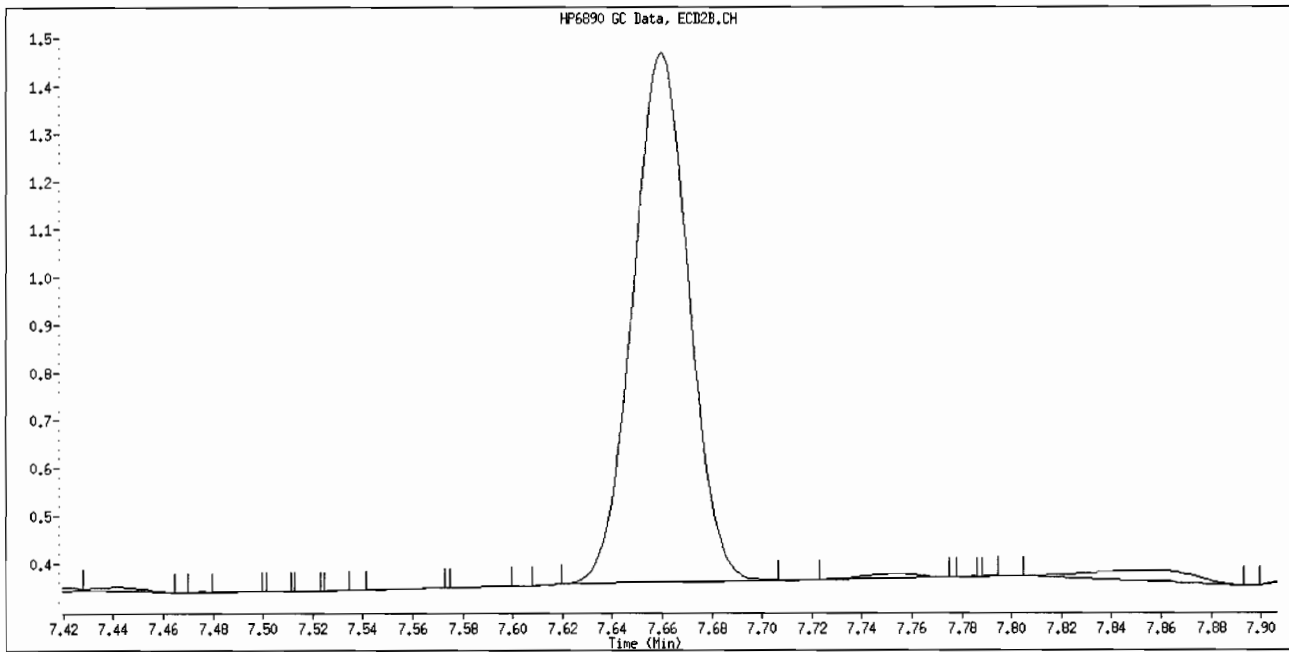
Inj. Date and Time: 16-APR-2010 21:28

Instrument ID: Gcp.i

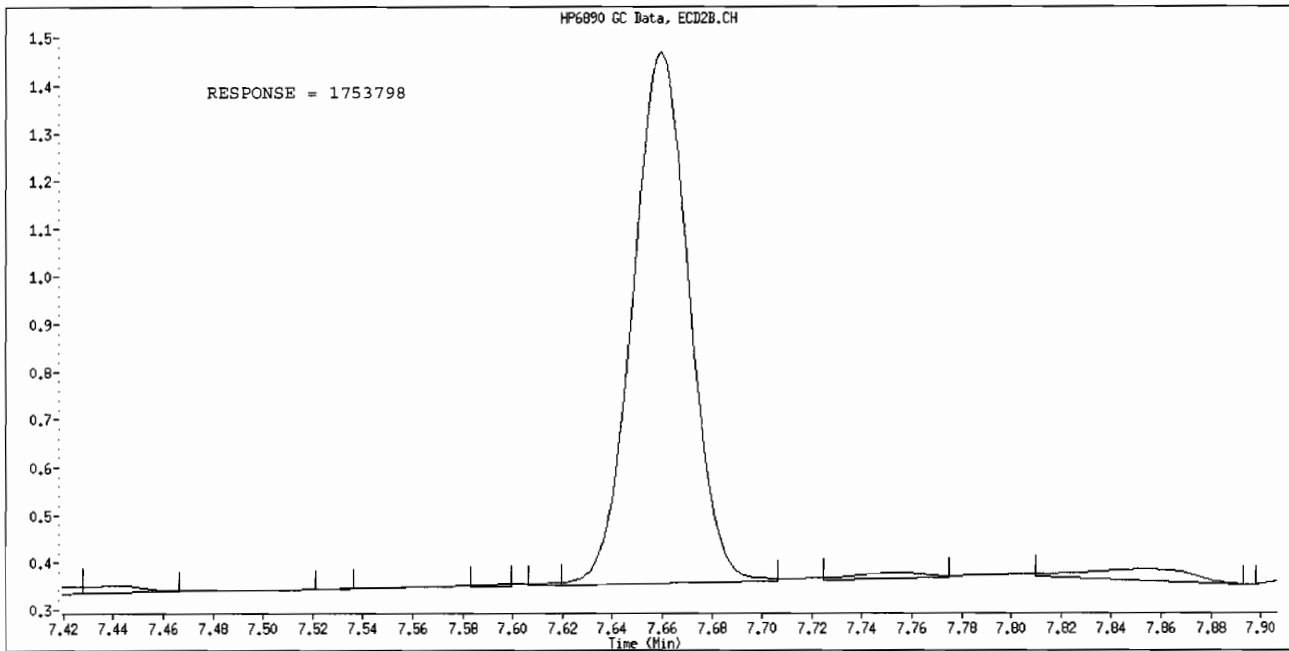
Client ID: RE12-10-15442

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

FORM 10

Los Alamos National 08-APR-2010 00:00

PCB IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

RE12-10-15442

Lab Name: TESTAMERICA ST. LOUIS

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: F0D080489

Lab Sample ID: LXNKE1AF

Date(s) Analyzed: 04/16/10 04/16/10

Instrument ID (1): GCP

Instrument ID (2): GCP

GC Column(1): CLPEST-1 ID: 0.53 (mm) GC Column(2): CLPEST-2 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	RPD
			FROM	TO			
Aroclor-1254	1	3.43	3.35	3.53	11.86	12.68	
	2	3.67	3.58	3.76	7.768		
	3	4.03	3.94	4.12	13.56		
	4	4.46	4.37	4.55	13.71		
	5	4.71	4.62	4.80	16.51		
COLUMN 1	1	4.30	4.21	4.39	14.18	11.03	13.9
	2	4.48	4.39	4.57	10.66		
	3	4.92	4.83	5.01	8.949		
	4	5.45	5.37	5.55	6.304		
	5	5.63	5.54	5.72	15.07		
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

page 1 of 1

PCB

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP337.D

Page 1

Report Date: 17-Apr-2010 10:48

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP337.D  
 Lab Smp Id: LXNKG1AF Client Smp ID: RE12-10-15448  
 Inj Date : 16-APR-2010 21:47  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXNKG1AF  
 Misc Info : F0D080489-004  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 35  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
====	=====	=====	=====	=====	=====	=====
\$ 32	Decachlorobiphenyl			CAS #:		
6.608	6.609	-0.001	3437048 25.0935	8.364		(M)

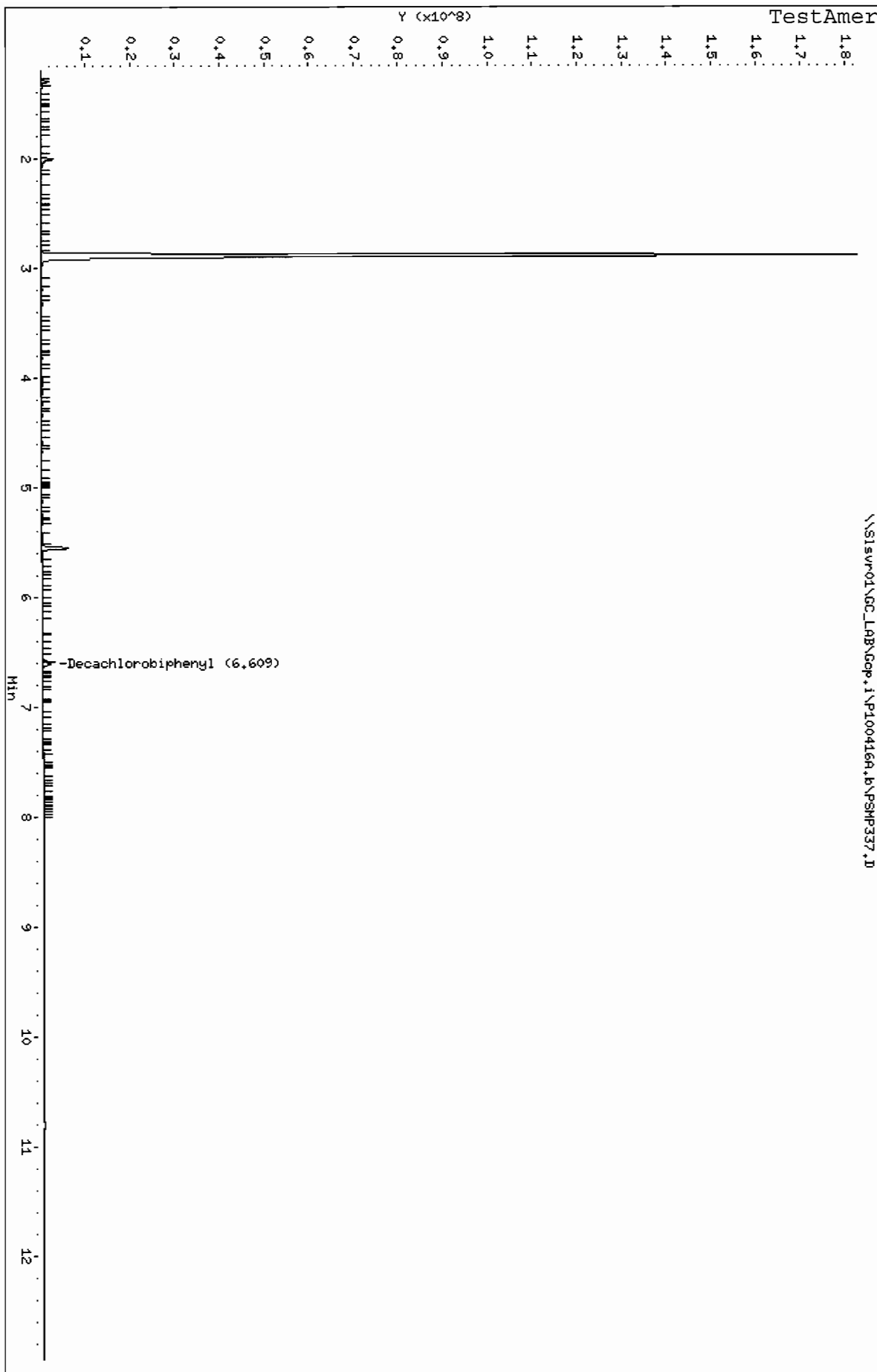
## QC Flag Legend

M - Compound response manually integrated.



Data File: \\Sisvr01\DC\_LAB\Gcp.i\PI004166.b\PSMP337.D  
 Date: 16-APR-2010 21:47  
 Client ID: RE12-10-15448  
 Sample Info: LXXKG1AF  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PSMP337.D

TestAmerica St. Louis

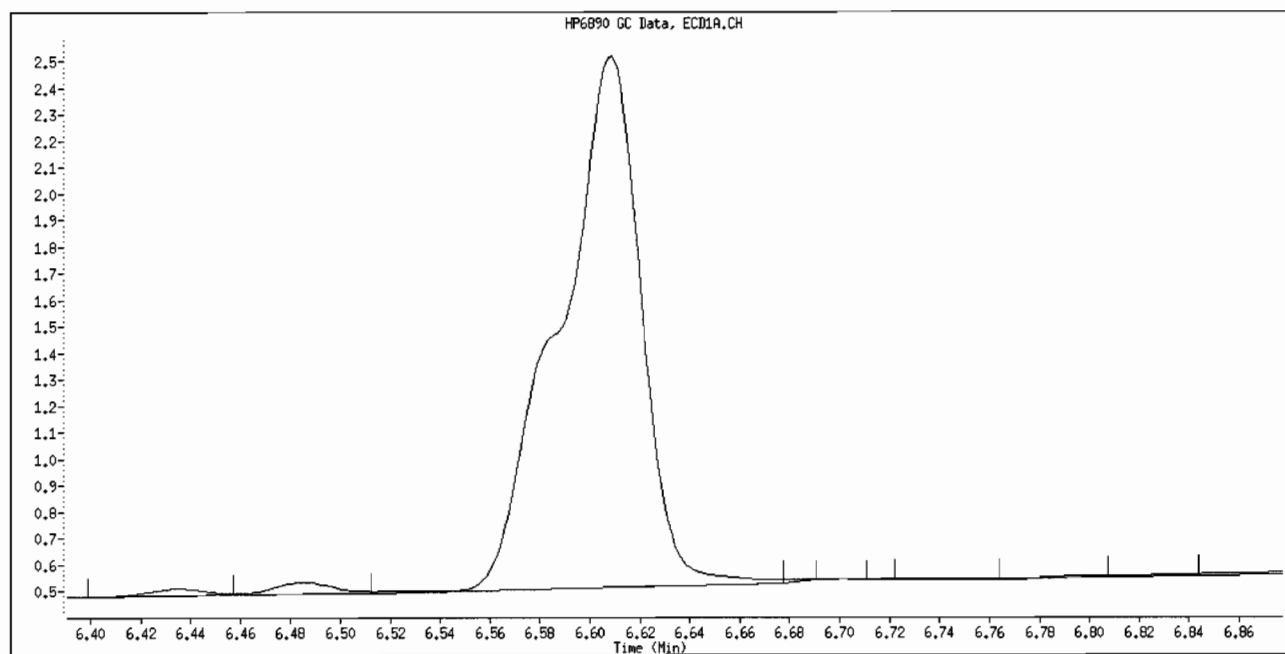
Inj. Date and Time: 16-APR-2010 21:47

Instrument ID: Gcp.i

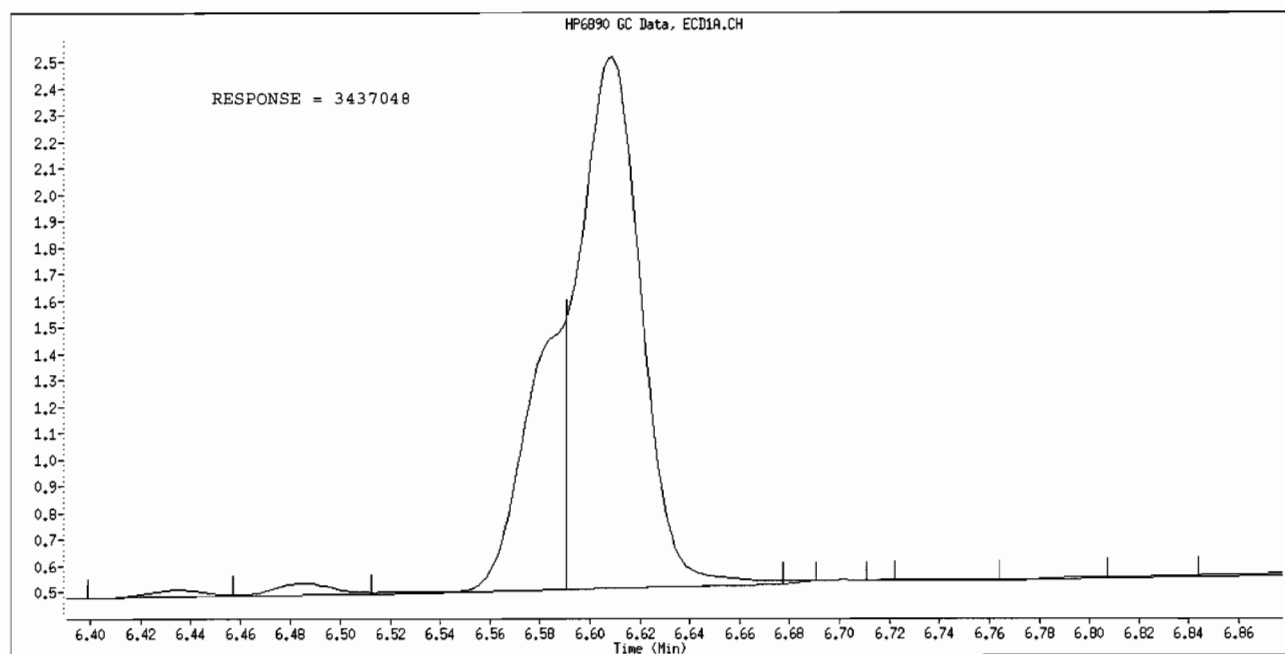
Client ID: RE12-10-15448

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Split Peak

# **GC RAW QC DATA**

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PBLK331.D  
 Report Date: 17-Apr-2010 10:44

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PBLK331.D  
 Lab Smp Id: LXRW51AA Client Smp ID: INTRA-LAB BLANK  
 Inj Date : 16-APR-2010 19:53  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXRW51AA  
 Misc Info : F0D100000-042B  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 29 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: sonqc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

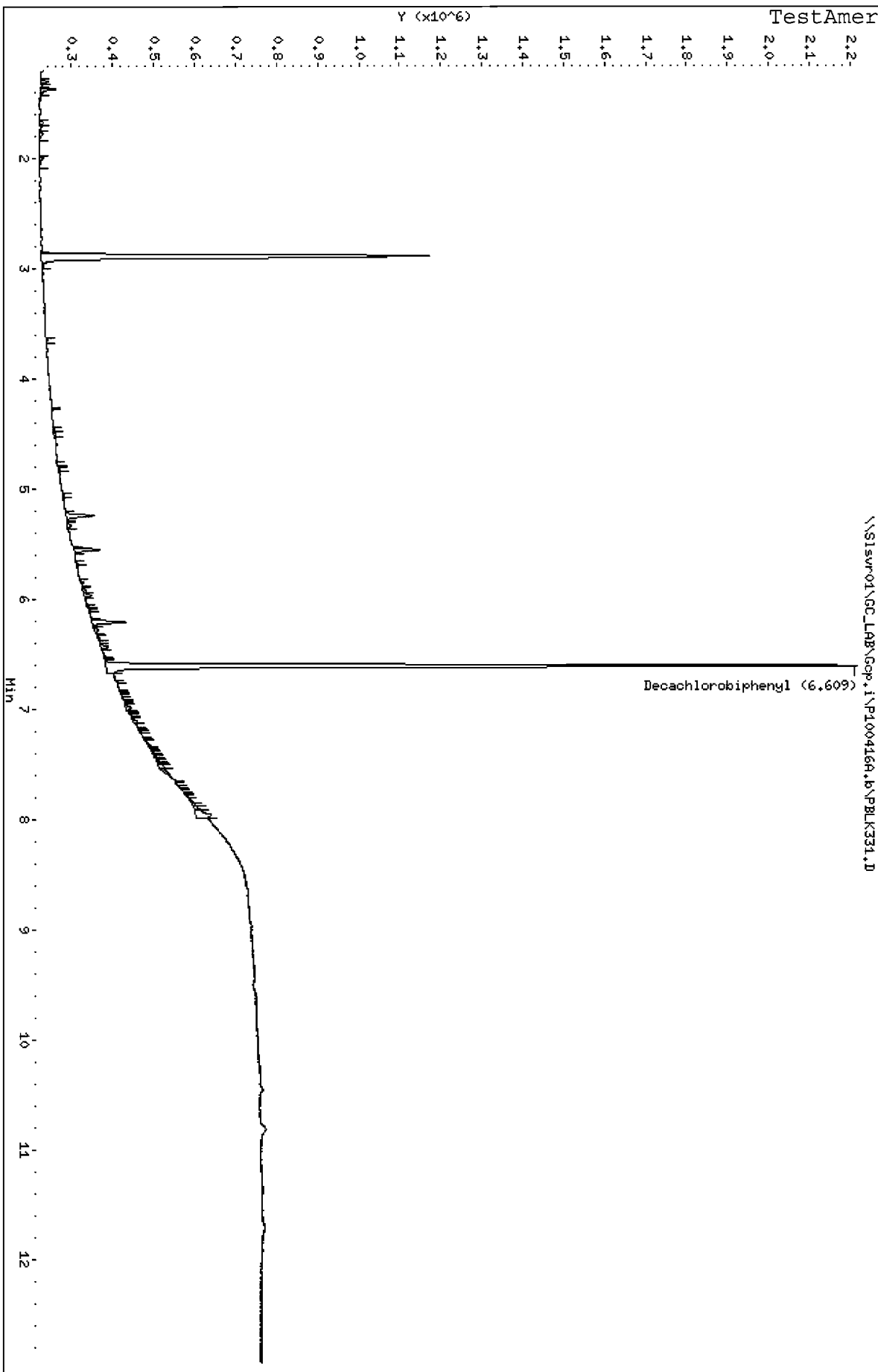
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					
6.609	6.609	0.000	2983348	21.7811	7.260	

\$ 32 Decachlorobiphenyl

CAS #:

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416a,b\PLK331.D  
 Date: 16-APR-2010 19:53  
 Client ID: INTRA-LAB BLANK  
 Sample Info: LXR051A9  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PBLK331.D

Page 1

Report Date: 17-Apr-2010 15:04

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PBLK331.D  
 Lab Smp Id: LXRW51AA Client Smp ID: INTRA-LAB BLANK  
 Inj Date : 16-APR-2010 19:53  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXRW51AA  
 Misc Info : F0D100000-042B  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 29 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$ 

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

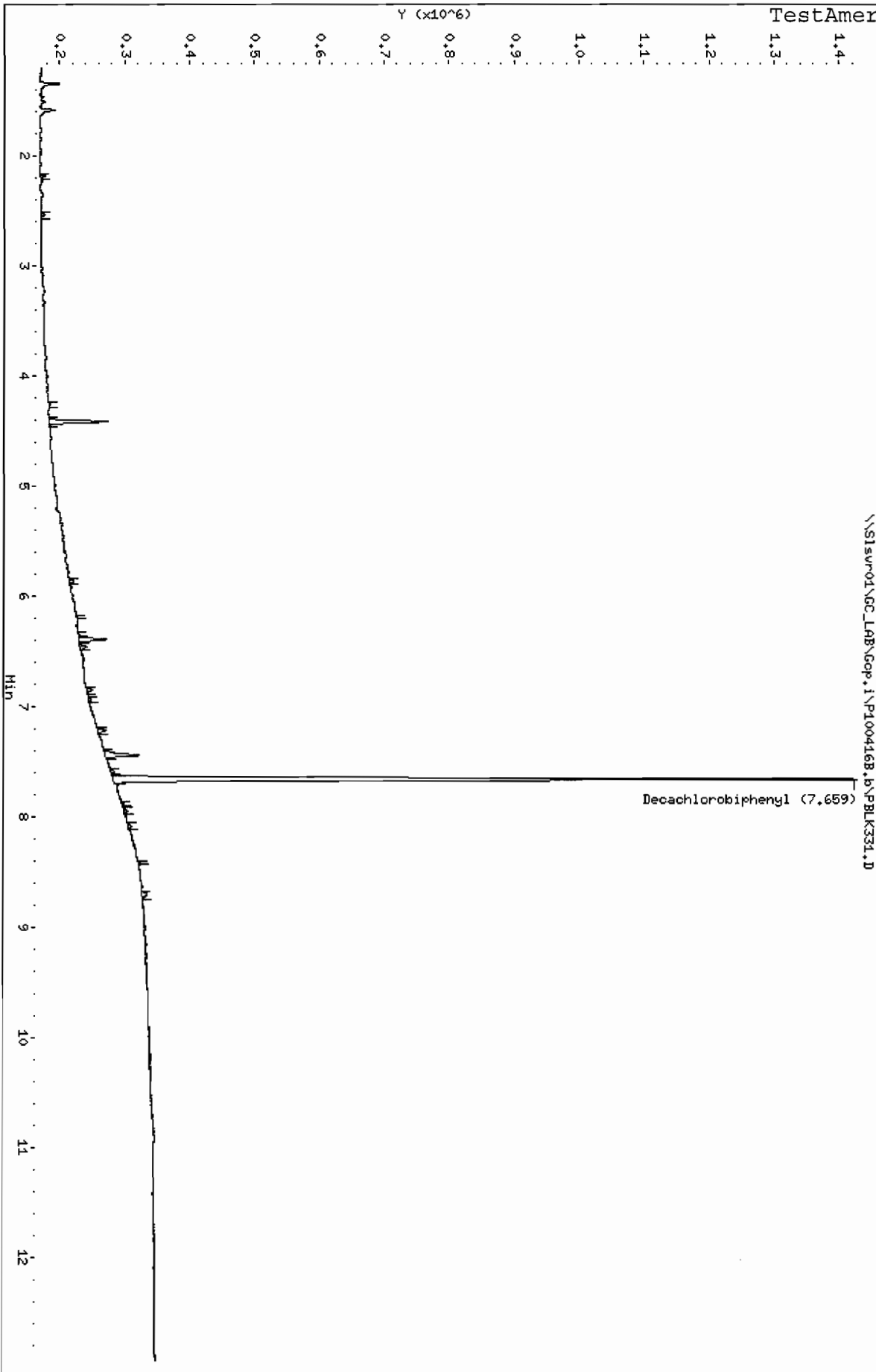
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					
7.659	7.659	0.000	1822530	21.3283	7.109	

\$ 32 Decachlorobiphenyl

CAS #:

Data File: \\Slsrv01\GC\_LAB\Gcp.i\P1004168.b\BLK334.D  
 Date: 16-APR-2010 19:53  
 Client ID: INTRA-LAB BLANK  
 Sample Info: LXRHS1A4  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VLK632.D

Page 1

Report Date: 15-Apr-2010 13:32

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VLK632.D  
 Lab Smp Id: LXT9Q1AA Client Smp ID: INTRA-LAB BLANK  
 Inj Date : 15-APR-2010 07:01  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXT9Q1AA  
 Misc Info : F0D120000-197B  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 6 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$ 

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
6.928	6.933	-0.005	1440558	29.4479	9.816	

\$ 32 Decachlorobiphenyl

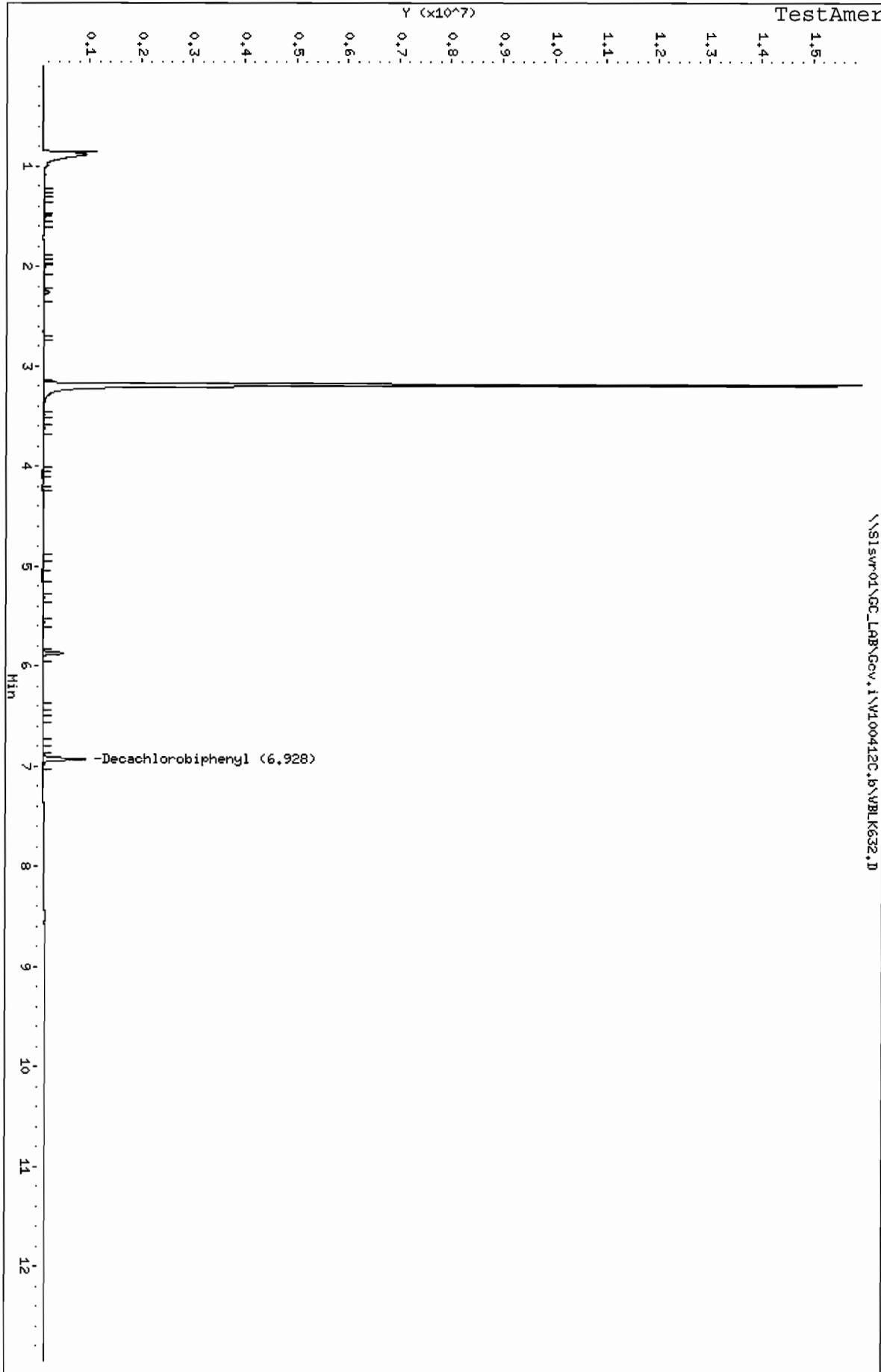
CAS #:



Data File: \\SIswr01\GC\_LAB\Gcv,i\W100412C.b\VBK632.D  
Date : 15-APR-2010 07:01  
Client ID: INTRA-LAB BLANK  
Sample Info: LX1901AA  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gcv.i  
Operator: DEK  
Column diameter: 0.53

Page 1



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VLK632.D

Page 1

Report Date: 15-Apr-2010 15:23

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VLK632.D  
 Lab Smp Id: LXT9Q1AA Client Smp ID: INTRA-LAB BLANK  
 Inj Date : 15-APR-2010 07:01  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXT9Q1AA  
 Misc Info : F0D120000-197B  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 6 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$ 

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

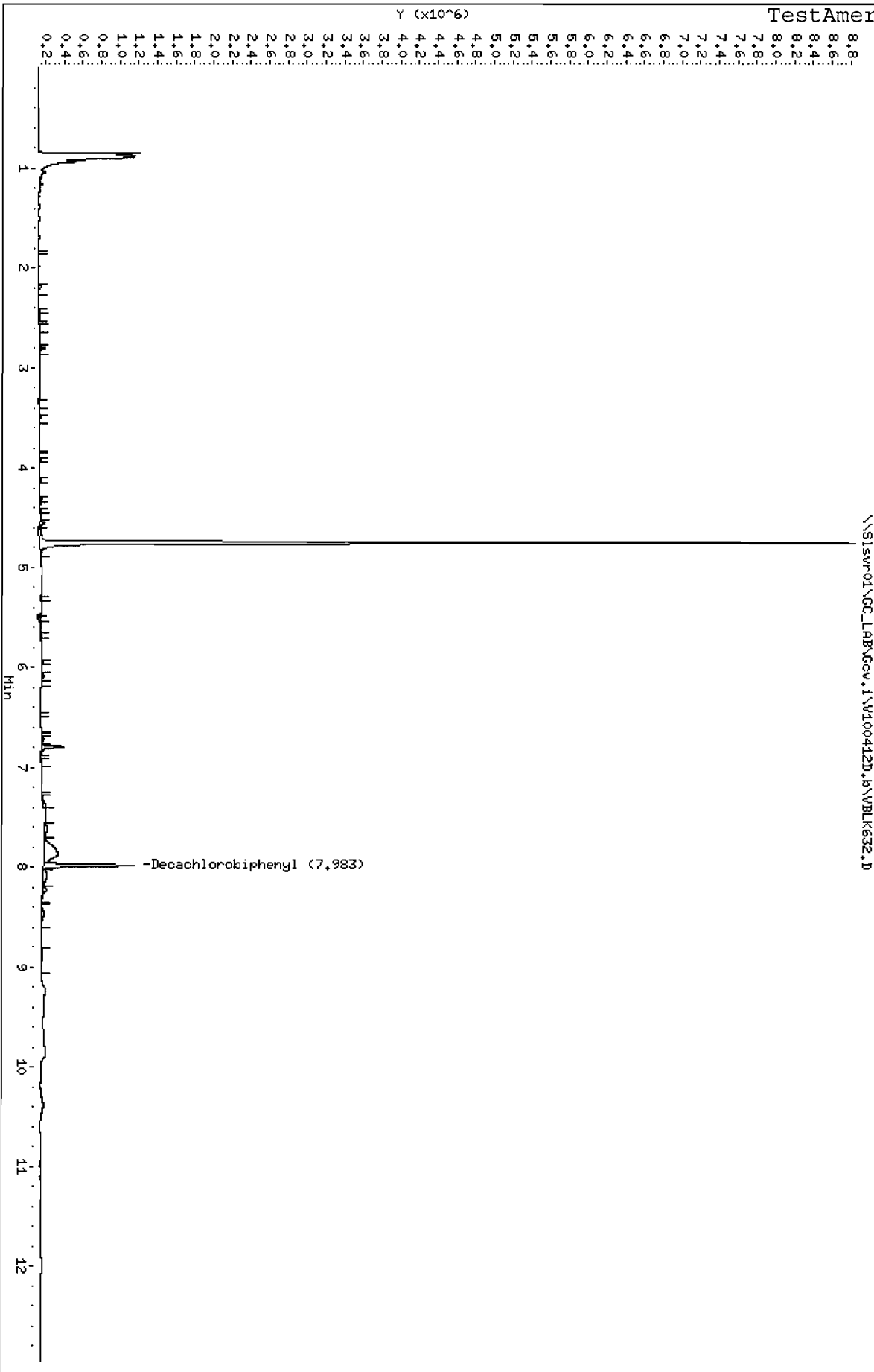
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
7.983	7.986	-0.003	1579115	32.8046	10.93	

\$ 32 Decachlorobiphenyl

CAS #:

Data File: \\S1swr01\GC\_LAB\Gov.i\W100412D.b\VBK632.D  
 Date: 15-APR-2010 07:01  
 Client ID: INTRA-LAB BLANK  
 Sample Info: LXT9Q1A4  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PLCS332.D

Page 1

Report Date: 17-Apr-2010 10:45

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PLCS332.D  
 Lab Smp Id: LXRW51AC Client Smp ID: INTRA-LAB CHECK  
 Inj Date : 16-APR-2010 20:12  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXRW51AC  
 Misc Info : F0D100000-042C  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 30 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: sonqc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO	
====	=====	=====	=====	=====	=====	=====	
22 Aroclor-1016				CAS #: 12674-11-2			
1.963	1.965	-0.002	1230751 433.532	144.5	80.00- 120.00	100.00	
2.240	2.240	0.000	3112088 552.823	184.3	159.62- 239.43	252.86	
2.623	2.624	-0.001	5847413 504.553	168.2	336.87- 505.31	475.11	
2.738	2.739	-0.001	2436297 516.934	172.3	138.17- 207.25	197.95	
3.093	3.095	-0.002	2366593 488.917	163.0	143.10- 214.64	192.29	
Average of Peak Concentrations =				166.4			
-----							
28 Aroclor-1260				CAS #: 11096-82-5			
4.198	4.200	-0.002	3698405 522.040	174.0	80.00- 120.00	100.00	
4.456	4.457	-0.001	6573670 534.745	178.2	140.39- 210.58	177.74	
4.711	4.712	-0.001	6233009 506.655	168.9	141.56- 212.35	168.53	
5.333	5.335	-0.002	10057256 520.998	173.7	221.01- 331.51	271.93	
5.591	5.594	-0.003	4936517 541.118	180.4	105.78- 158.67	133.48	
Average of Peak Concentrations =				175.0			
-----							
\$ 32 Decachlorobiphenyl				CAS #:			
6.608	6.609	-0.001	3605055 26.3201	8.773		(M)	
-----							

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PLCS332.D  
Report Date: 17-Apr-2010 10:45

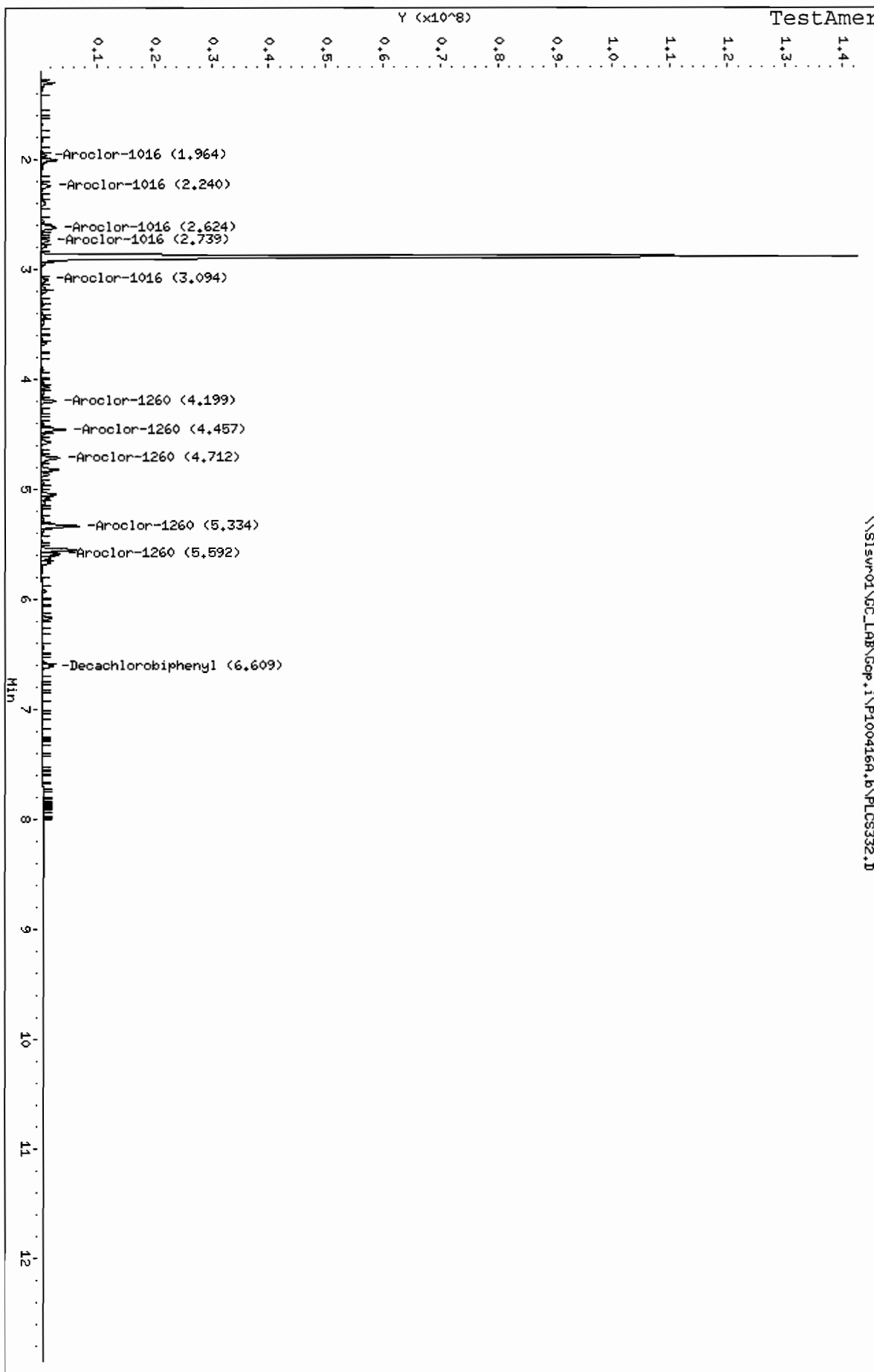
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slswr01\GC\_LAB\Gcp.i\PI00416A.b\PLCS332.D  
 Date: 16-APR-2010 20:12  
 Client ID: INTRA-LAB CHECK  
 Sample Info: LXRM51AC  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PLCS332.D

TestAmerica St. Louis

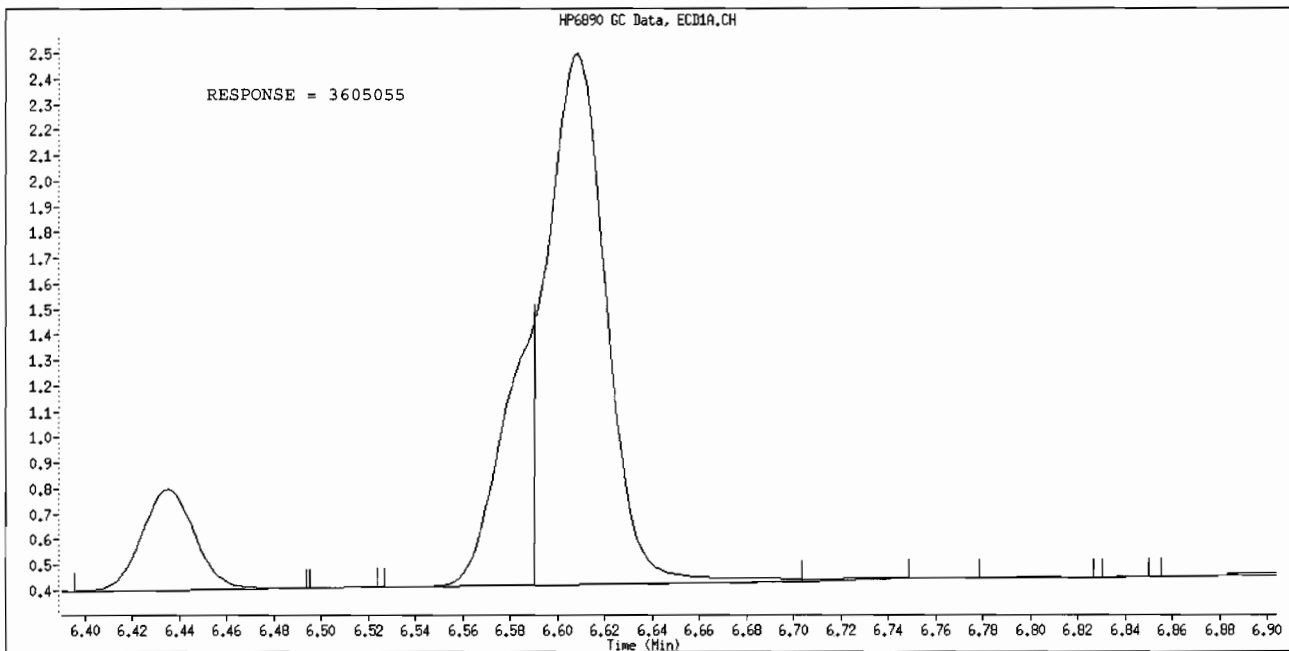
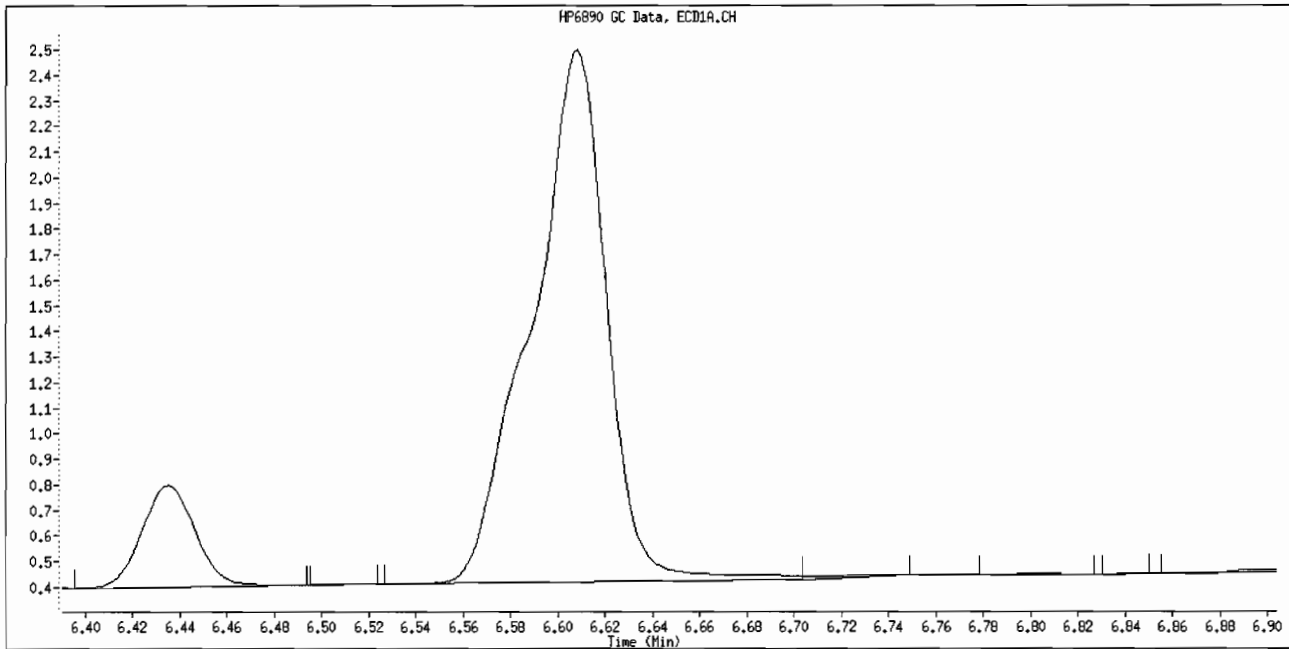
Inj. Date and Time: 16-APR-2010 20:12

Instrument ID: Gcp.i

Client ID: INTRA-LAB CHECK

Compound Name: Decachlorobiphenyl

CAS #:



Manually Integrated By: konopkad

Manual Integration Reason: Split Peak

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PLCS332.D

Page 1

Report Date: 17-Apr-2010 15:05

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PLCS332.D  
 Lab Smp Id: LXRW51AC Client Smp ID: INTRA-LAB CHECK  
 Inj Date : 16-APR-2010 20:12  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXRW51AC  
 Misc Info : F0D100000-042C  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 30 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					
22 Aroclor-1016				CAS #: 12674-11-2		
2.535	2.537	-0.002	934012 482.061	160.7	80.00- 120.00	100.00
2.907	2.909	-0.002	1828484 473.256	157.8	39.13- 352.14	195.77
3.335	3.336	-0.001	3838536 510.053	170.0	82.65- 743.87	410.97
3.462	3.462	0.000	1595344 494.665	164.9	33.34- 300.05	170.81
3.903	3.906	-0.003	1362779 560.616	186.9	25.31- 227.81	145.91
Average of Peak Concentrations =				168.0		

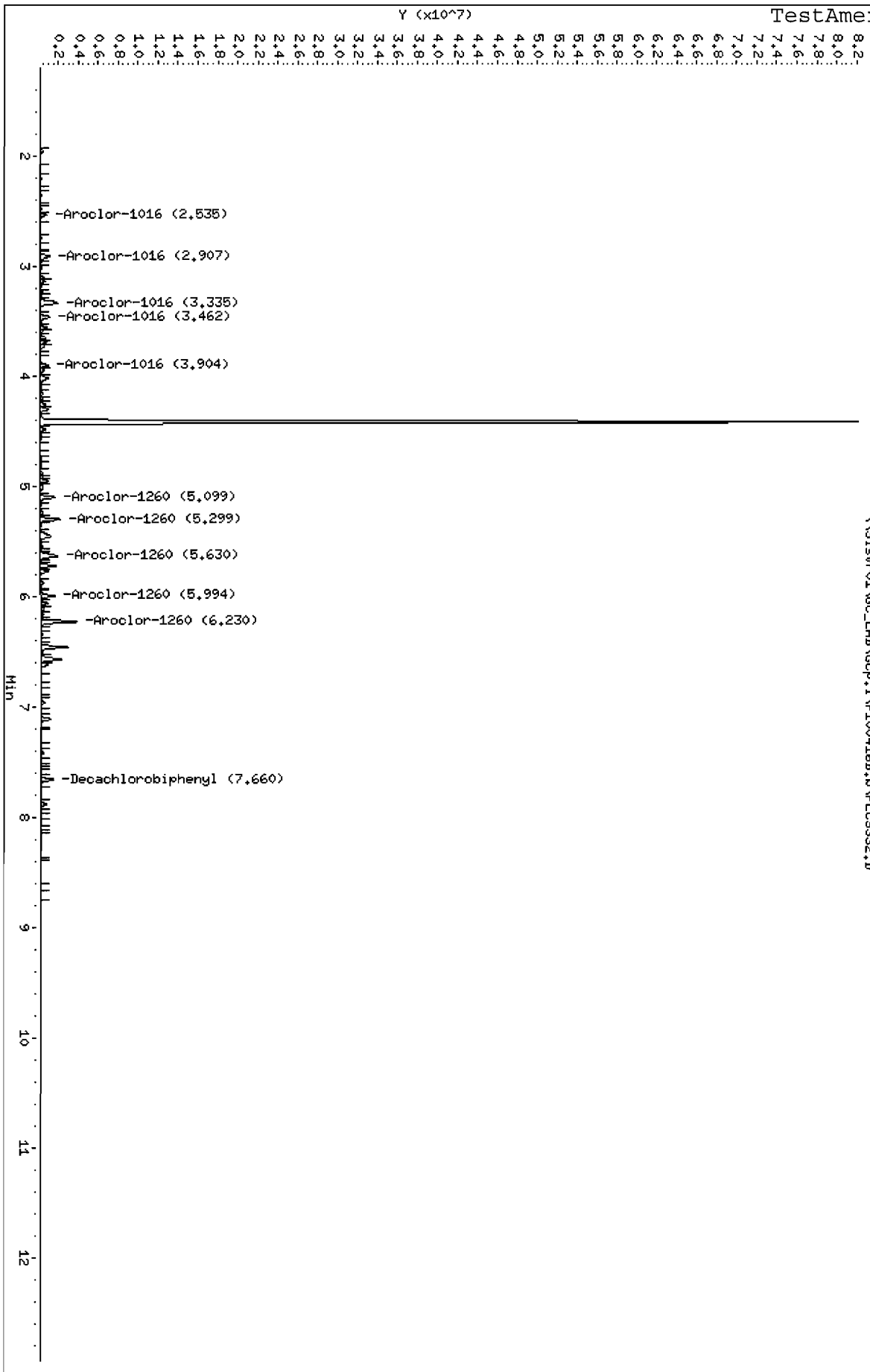
28 Aroclor-1260				CAS #: 11096-82-5		
5.098	5.101	-0.003	2399012 523.697	174.6	80.00- 120.00	100.00
5.298	5.299	-0.001	2905782 516.838	172.3	24.85- 223.64	121.12
5.630	5.631	-0.001	3782918 530.228	176.7	31.80- 286.22	157.69
5.993	5.994	-0.001	2321497 510.707	170.2	20.05- 180.48	96.77
6.230	6.231	-0.001	5582278 511.402	170.5	49.55- 445.94	232.69
Average of Peak Concentrations =				172.8		

\$ 32 Decachlorobiphenyl				CAS #:		
7.660	7.659	0.001	1985574 23.2363	7.745		



Data File: \\SISVR01\GC\_LAB\Gcp.i\PI00416B.b\PLCS332.D  
 Date: 16-APR-2010 20:12  
 Client ID: INTRA-LAB CHECK  
 Sample Info: LXRB51AC  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-2

Instrument: Gcp.i  
 Operator: DEK  
 Column diameter: 0.53



Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VLCS634.D

Page 1

Report Date: 15-Apr-2010 13:32

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VLCS634.D  
 Lab Smp Id: LXT9Q1AC Client Smp ID: INTRA-LAB CHECK  
 Inj Date : 15-APR-2010 07:38  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXT9Q1AC  
 Misc Info : F0D120000-197C  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
----	--------	--------	--------	-------	--------------	-------

22 Aroclor-1016				CAS #: 12674-11-2		
2.216	2.220	-0.004	544091 378.224	126.1	80.00- 120.00	100.00
2.507	2.510	-0.003	1444080 459.680	153.2	163.27- 244.90	265.41
2.907	2.910	-0.003	3210675 515.801	171.9	340.93- 511.39	590.10
3.024	3.028	-0.004	1087116 435.539	145.2	138.45- 207.68	199.80
3.389	3.391	-0.002	1197172 456.973	152.3	141.11- 211.67	220.03
Average of Peak Concentrations =				149.7		

28 Aroclor-1260				CAS #: 11096-82-5		
4.507	4.511	-0.004	1766367 485.814	161.9	80.00- 120.00	100.00 (M)
4.766	4.770	-0.004	2288466 450.404	150.1	115.06- 172.58	129.56
5.024	5.028	-0.004	2538328 472.610	157.5	121.53- 182.30	143.70
5.649	5.651	-0.002	3129797 453.289	151.1	163.07- 244.60	202.57
5.909	5.913	-0.004	1509078 426.145	142.0	81.24- 121.86	85.43
Average of Peak Concentrations =				152.6		

\$ 32 Decachlorobiphenyl				CAS #:		
6.929	6.933	-0.004	994587 20.3313	6.777		

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VLCS634.D  
Report Date: 15-Apr-2010 13:32

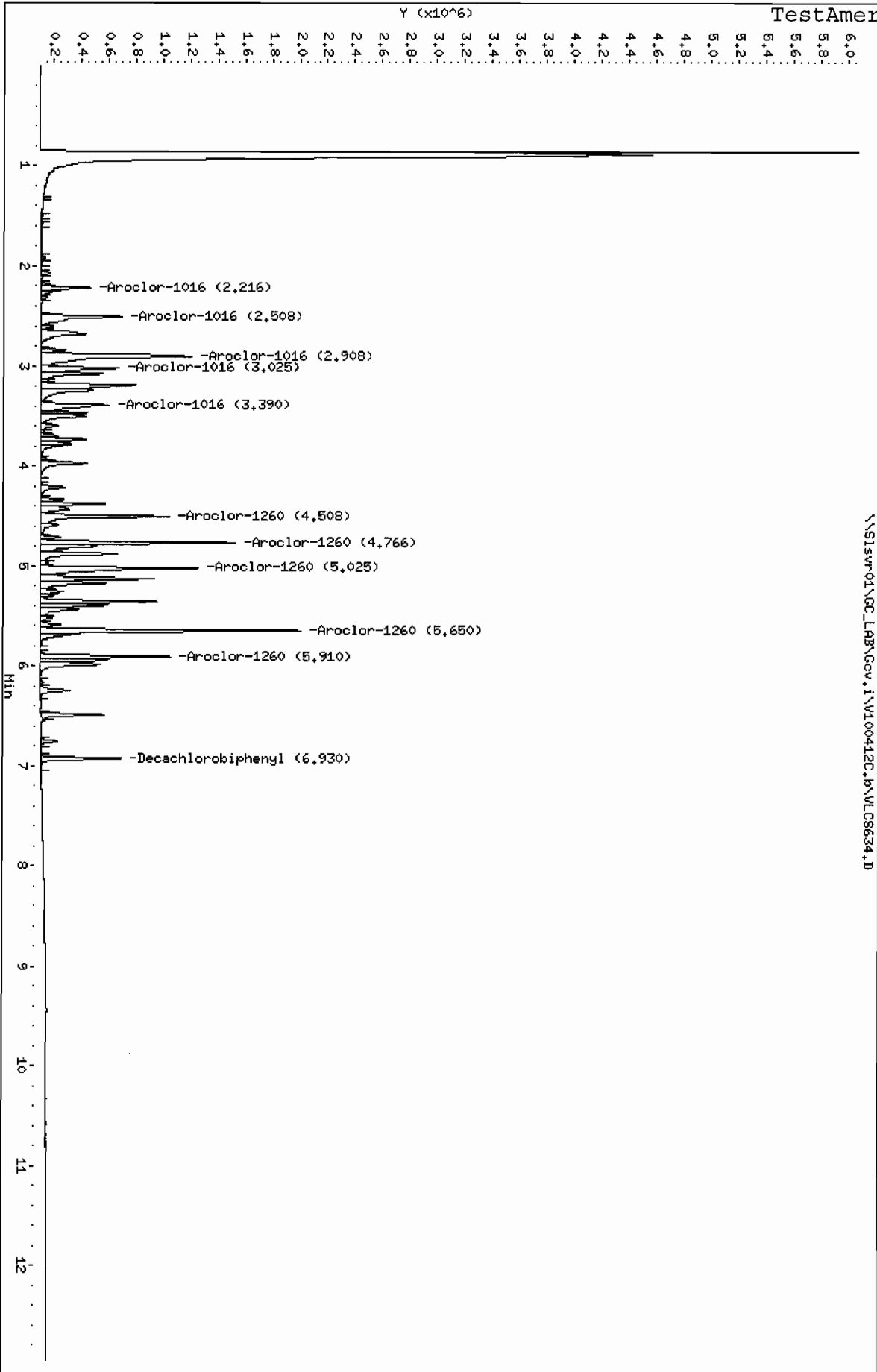
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\S1swr01\GC\_LAB\Gov.i\W100412C.b\VLCS634.D  
 Date : 15-APR-2010 07:38  
 Client ID: INTRA-LAB CHECK  
 Sample Info: LX19Q1AC  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gov.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: VLCS634.D

TestAmerica St. Louis

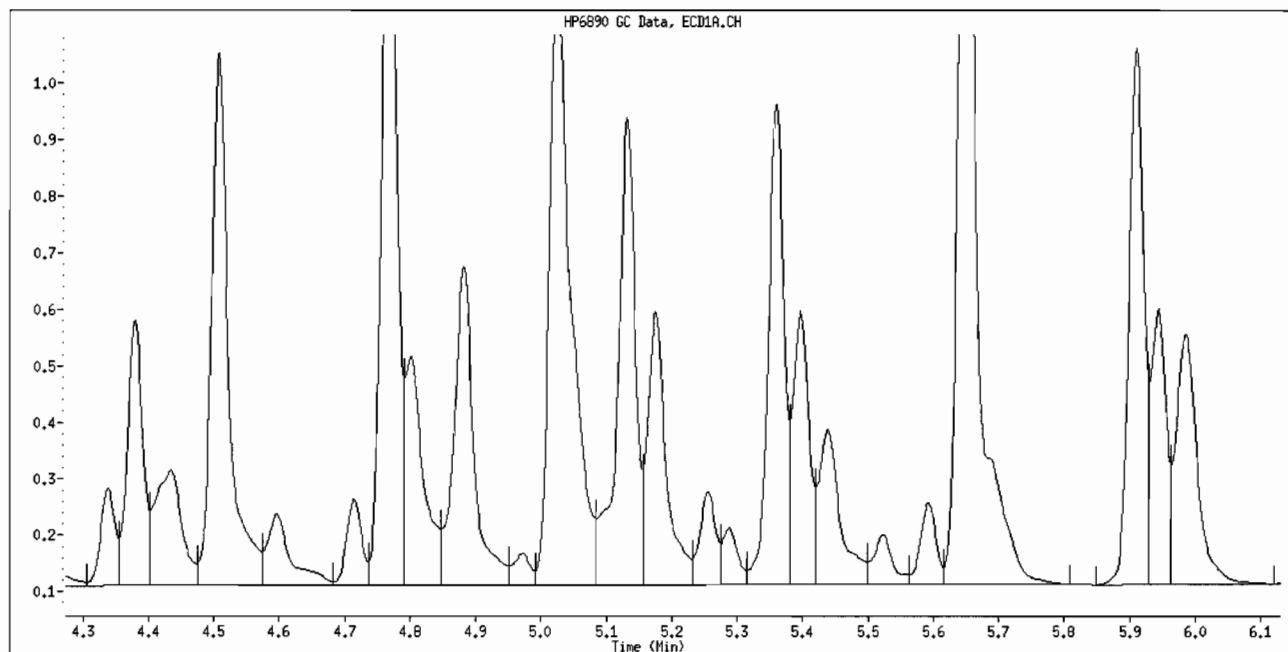
Inj. Date and Time: 15-APR-2010 07:38

Instrument ID: Gcv.i

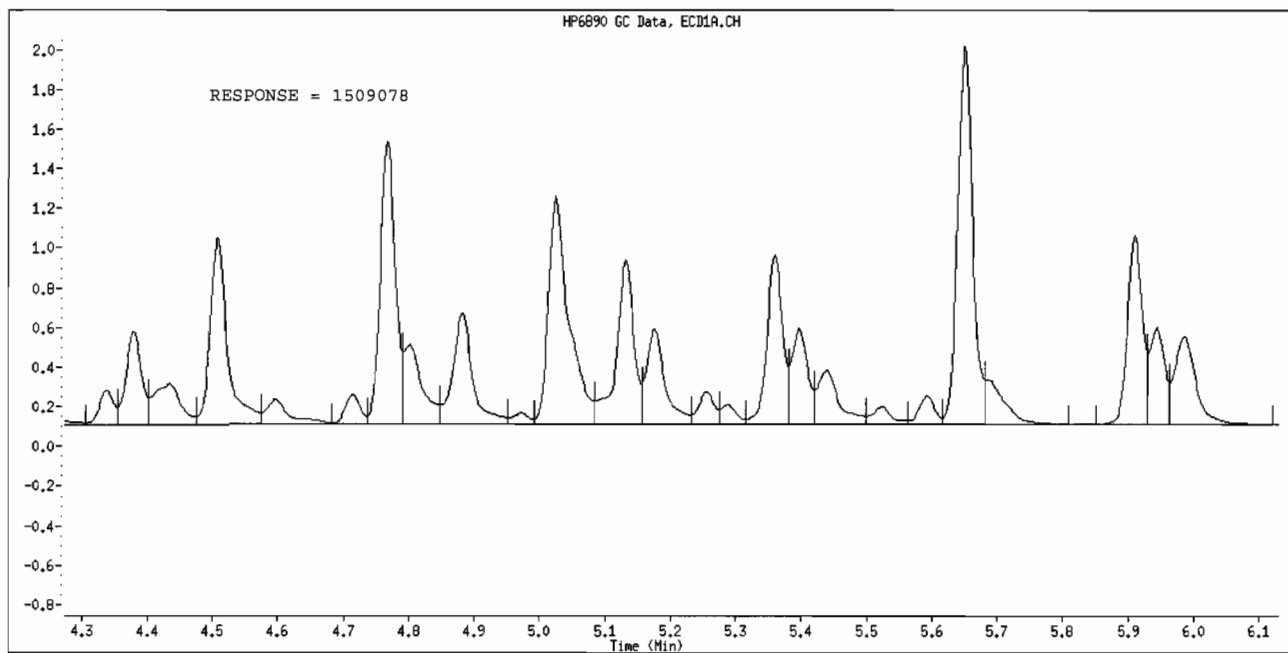
Client ID: INTRA-LAB CHECK

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Split Peak

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VLCS634.D  
 Report Date: 20-Apr-2010 10:44

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VLCS634.D  
 Lab Smp Id: LXT9Q1AC Client Smp ID: INTRA-LAB CHECK  
 Inj Date : 15-APR-2010 07:38  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXT9Q1AC  
 Misc Info : F0D120000-197C  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: songc.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====
22 Aroclor-1016			CAS #: 12674-11-2			
2.802	2.805	-0.003	984313 479.309	159.8	80.00- 120.00	100.00 (M)
3.189	3.190	-0.001	2000591 483.625	161.2	38.73- 348.58	203.25
3.629	3.630	-0.001	4055929 500.689	166.9	85.41- 768.72	412.06
3.757	3.760	-0.003	1646410 494.811	164.9	34.47- 310.20	167.26
4.206	4.206	0.000	1162950 462.291	154.1	25.58- 230.19	118.15
Average of Peak Concentrations =			161.4			

28 Aroclor-1260			CAS #: 11096-82-5			
5.411	5.411	0.000	2507530 532.657	177.6	80.00- 120.00	100.00 (M)
5.607	5.608	-0.001	2767340 541.578	180.5	22.36- 201.21	110.36
5.946	5.946	0.000	3607312 559.785	186.6	29.20- 262.77	143.86
6.311	6.311	0.000	2179747 519.845	173.3	18.44- 165.96	86.93
6.546	6.546	0.000	4155577 526.212	175.4	36.52- 328.70	165.72
Average of Peak Concentrations =			178.7			

\$ 32 Decachlorobiphenyl			CAS #:			
7.984	7.986	-0.002	1150399 23.8984	7.966		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VLCS634.D  
Report Date: 20-Apr-2010 10:44

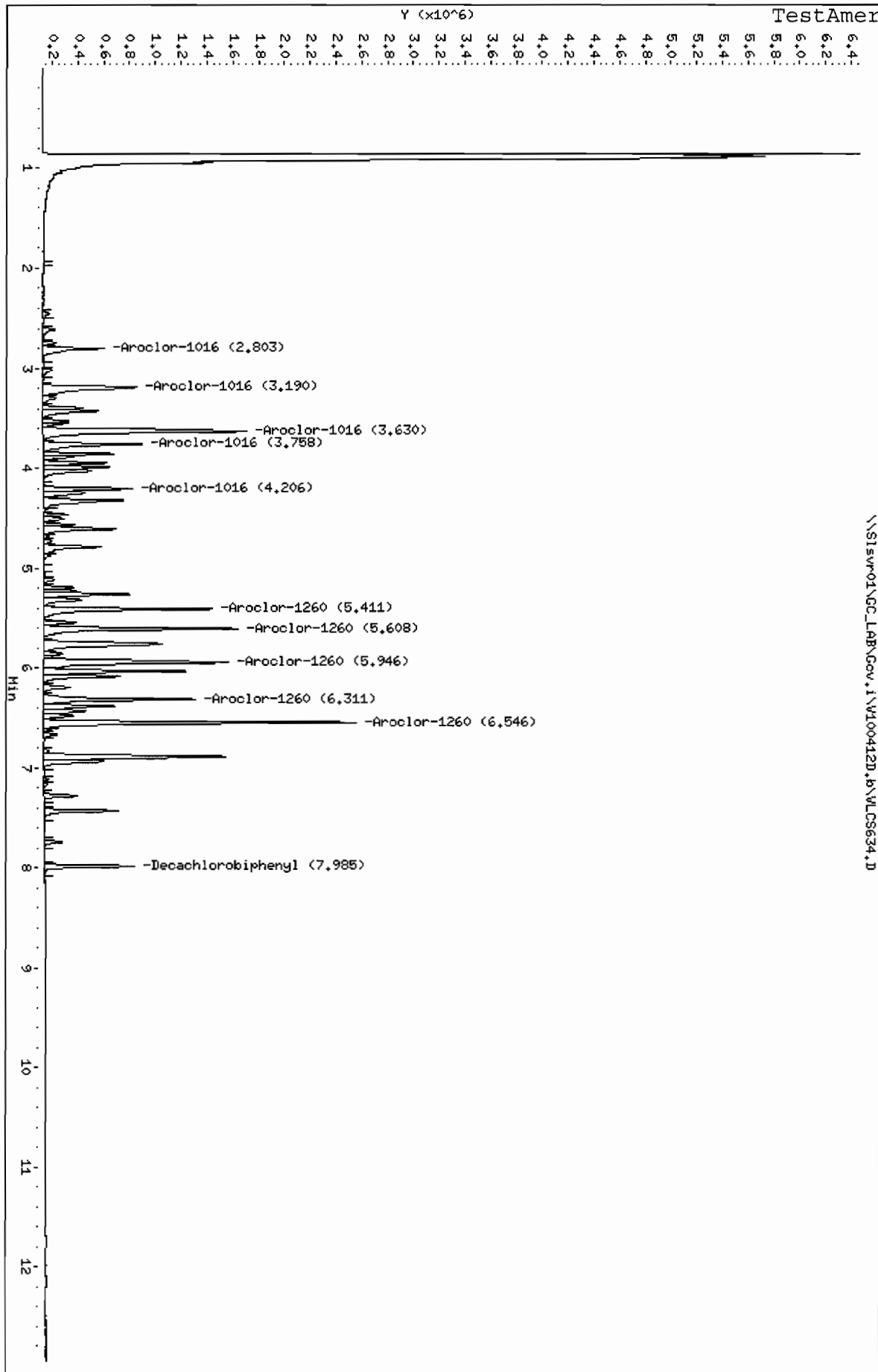
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\SLswr01\GC\_LAB\Gov.i\1\100412D.b\VLCS634.D  
Date: 15-APR-2010 07:38  
Client ID: INTRA-LAB CHECK  
Sample Info: LXT90LAC  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

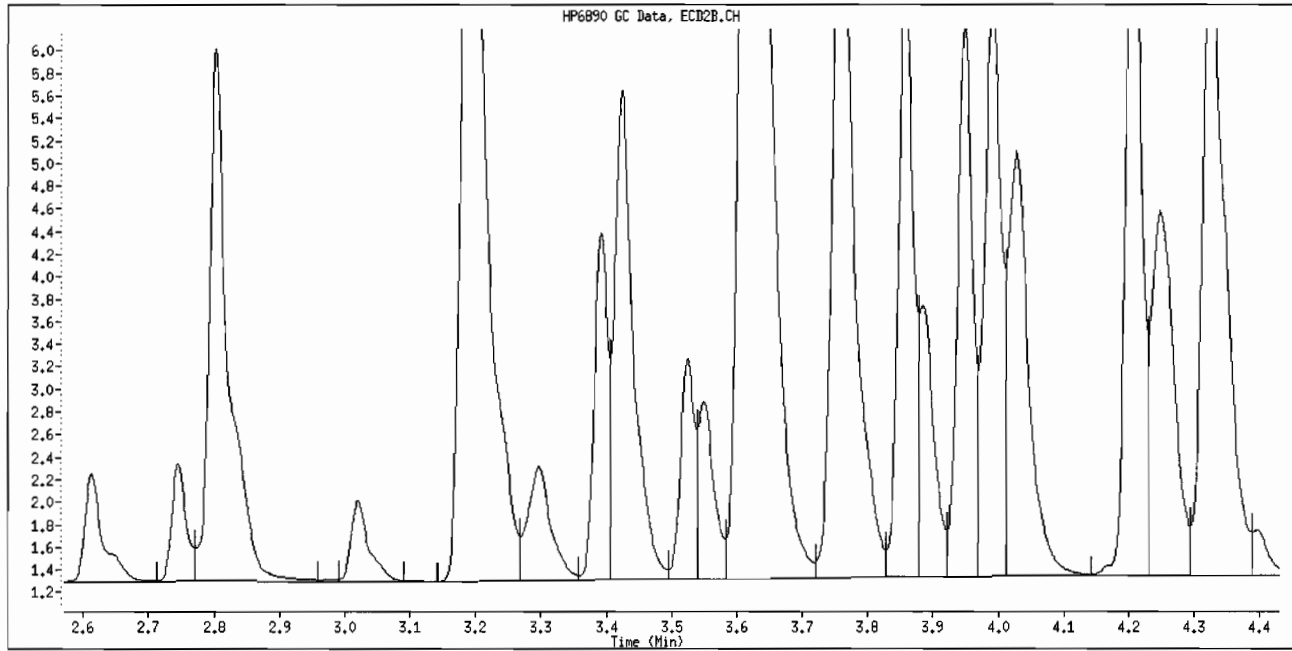
Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53



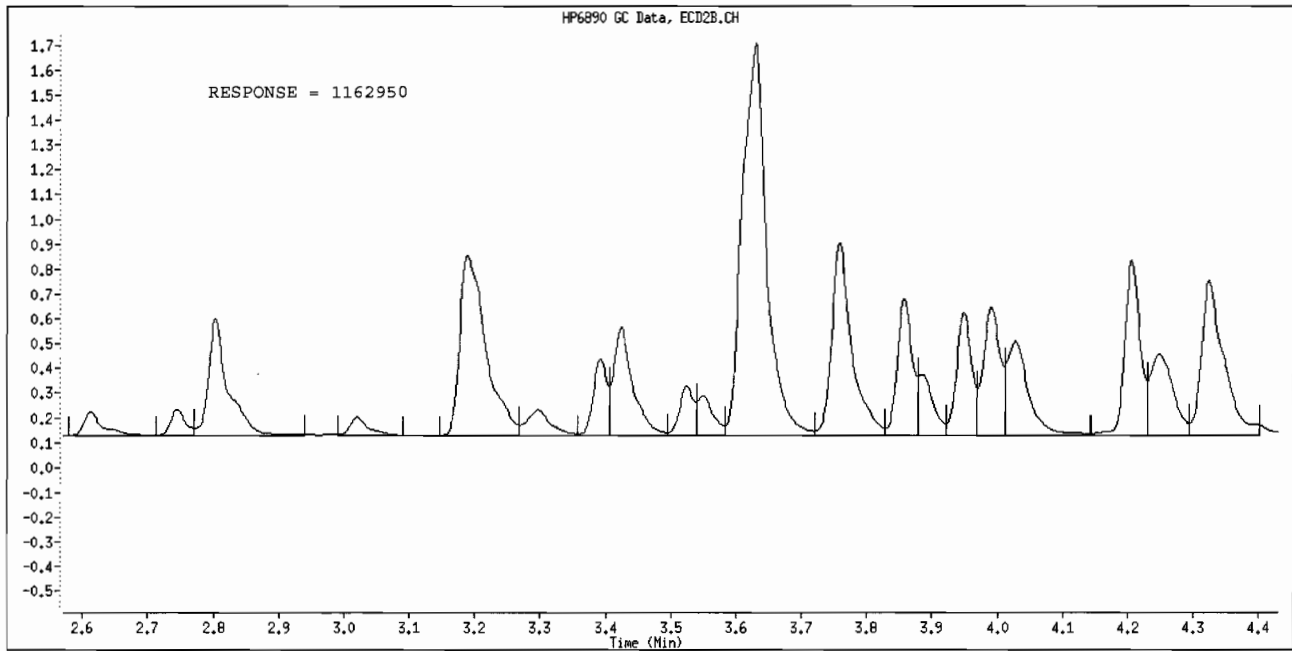


Data File Name: VLCS634.D  
Inj. Date and Time: 15-APR-2010 07:38  
Instrument ID: Gcv.i  
Client ID: INTRA-LAB CHECK  
Compound Name: Aroclor-1016  
CAS #: 12674-11-2

TestAmerica St. Louis



Original Integration

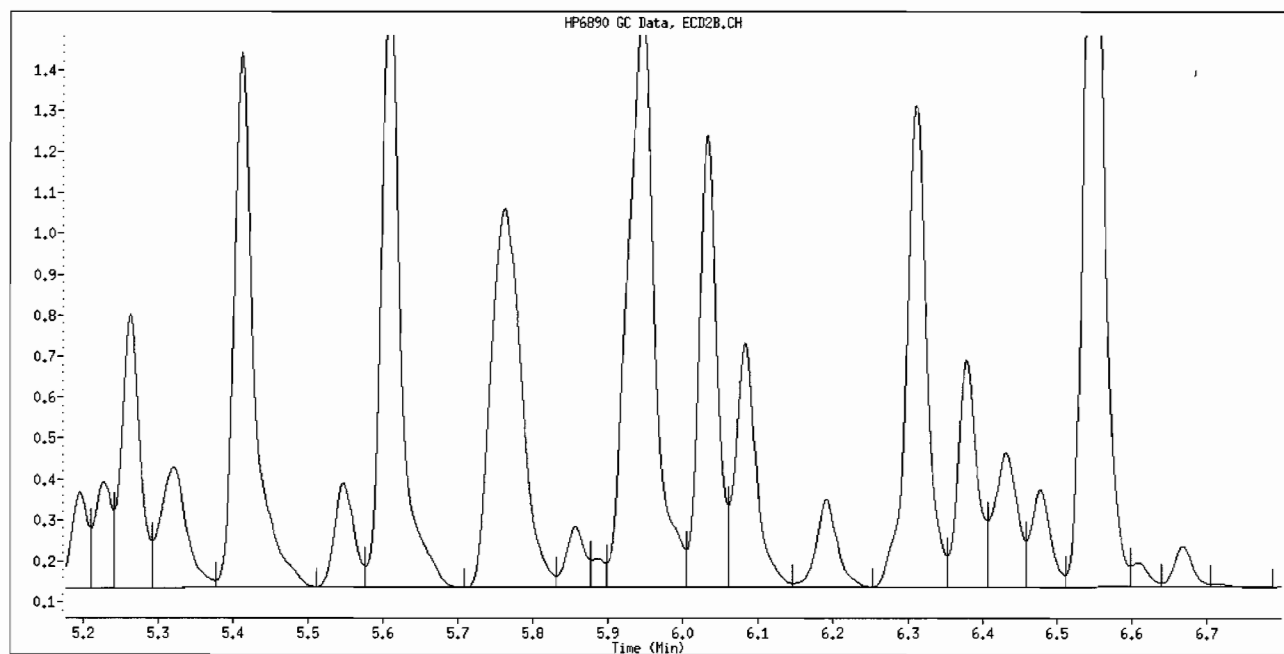


Manual Integration

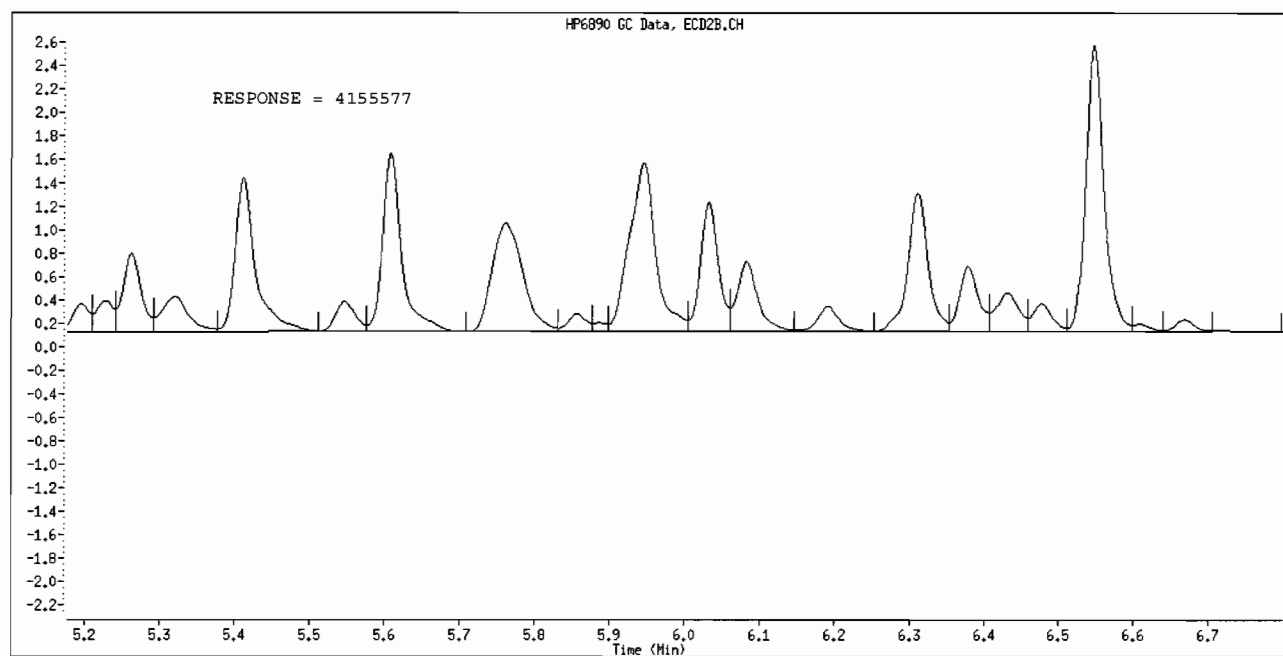
Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

Data File Name: VLCS634.D  
Inj. Date and Time: 15-APR-2010 07:38  
Instrument ID: Gcv.i  
Client ID: INTRA-LAB CHECK  
Compound Name: Aroclor-1260  
CAS #: 11096-82-5

TestAmerica St. Louis



Original Integration



Manual Integration

Manually Integrated By: konopkad  
Manual Integration Reason: Baseline Event

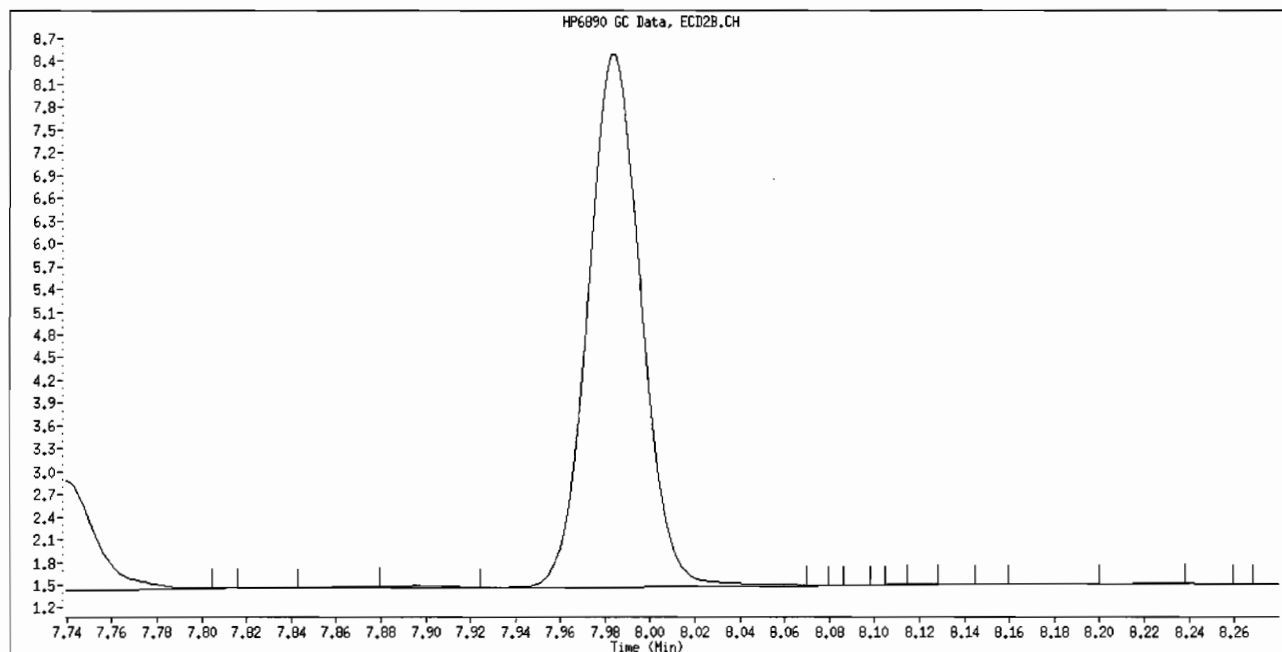
Inj. Date and Time: 15-APR-2010 07:38

Instrument ID: Gcv.i

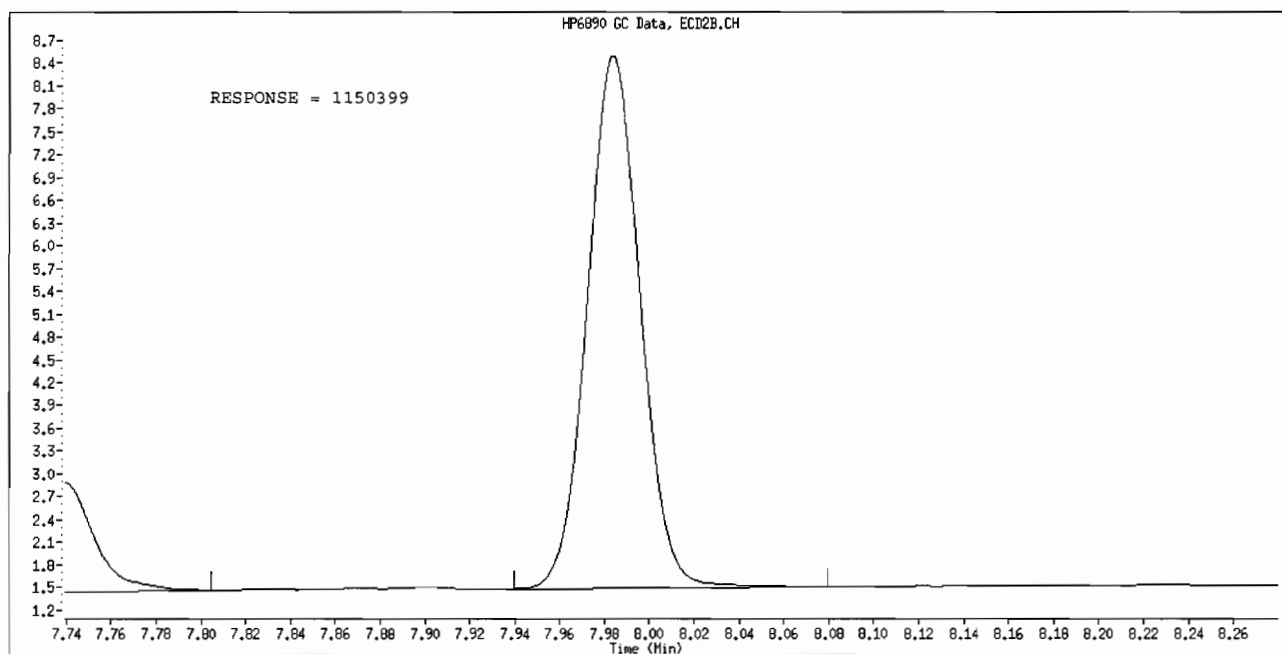
Client ID: INTRA-LAB CHECK

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP334.D  
 Report Date: 17-Apr-2010 10:46

Page 1

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP334.D  
 Lab Smp Id: LXL41E6 Client Smp ID: WST32-10-13889  
 Inj Date : 16-APR-2010 20:50  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXL41E6  
 Misc Info : F0D070439-002S  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 32 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					

22 Aroclor-1016			CAS #: 12674-11-2			
1.966	1.965	0.001	1532558	539.844	179.9 80.00- 120.00	100.00
2.241	2.240	0.001	6447680	1145.35	381.8 159.62- 239.43	420.71
2.623	2.624	-0.001	5582382	481.685	160.6 336.87- 505.31	364.25
2.740	2.739	0.001	3214966	682.152	227.4 138.17- 207.25	209.78
3.096	3.095	0.001	3277848	677.174	225.7 143.10- 214.64	213.88
Average of Peak Concentrations =			235.1			

28 Aroclor-1260			CAS #: 11096-82-5			
4.201	4.200	0.001	122680383	17316.7	5772 80.00- 120.00	100.00
4.460	4.457	0.003	246750320	20072.3	6691 140.39- 210.58	201.13
4.715	4.712	0.003	269432852	21901.0	7300 141.56- 212.35	219.62
5.336	5.335	0.001	348289271	18042.5	6014 221.01- 331.51	283.90
5.595	5.594	0.001	174553275	19133.7	6378 105.78- 158.67	142.28
Average of Peak Concentrations =			6431			

\$ 32 Decachlorobiphenyl			CAS #:			
6.608	6.609	-0.001	2905469	21.2125	7.071	(M)

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP334.D  
Report Date: 17-Apr-2010 10:46

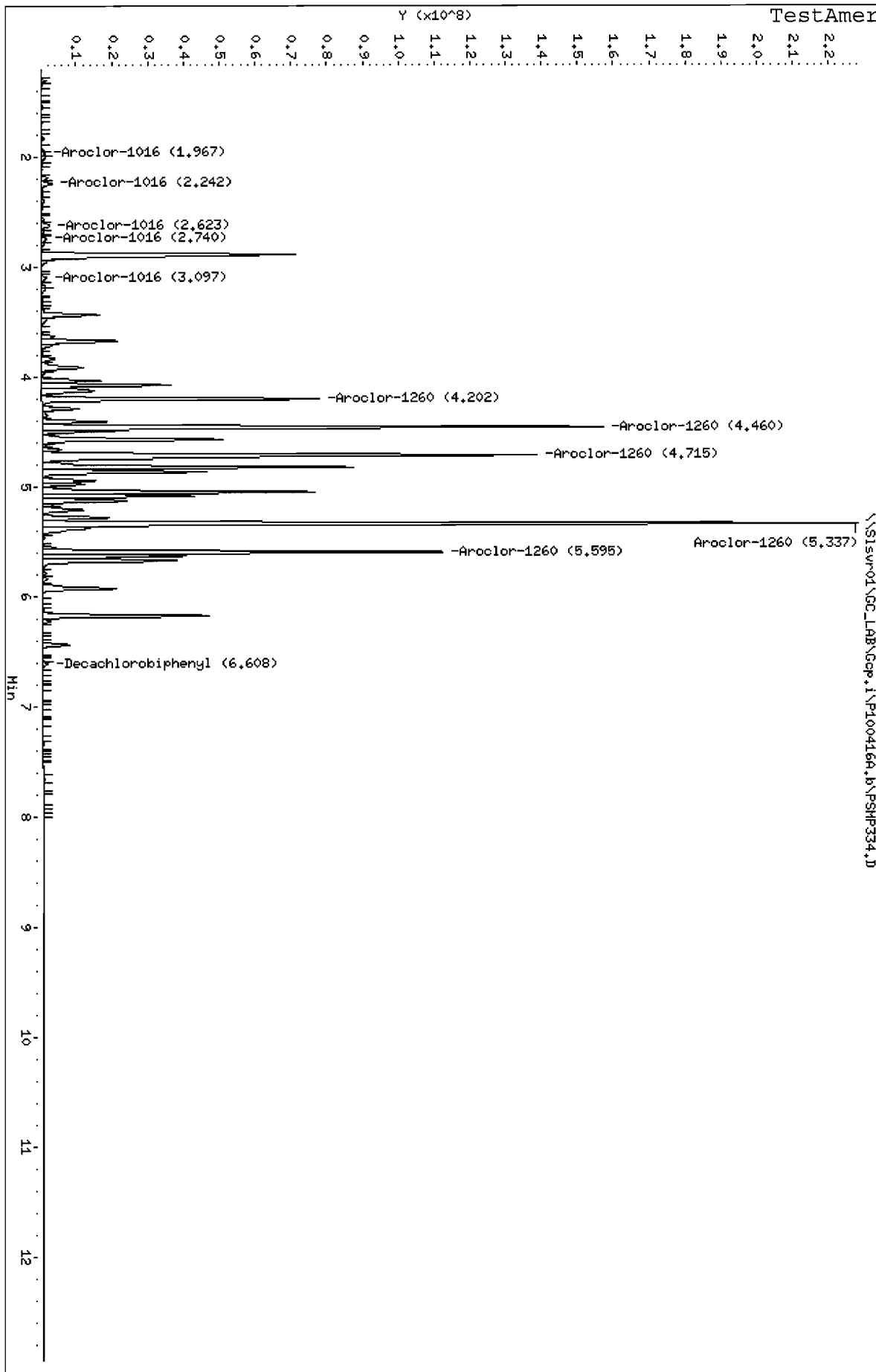
TestAmerica St. Louis  
Page 2

#### QC Flag Legend

M - Compound response manually integrated.

Data File: \\Slsrv01\GC\_LAB\Gep.i\P1004160.b\PSHP334.D  
 Date: 16-APR-2010 20:50  
 Client ID: MST32-10-13889  
 Sample Info: LXLR41E6  
 Volume Injected (uL): 2.0  
 Column phase: CLPEST-1

Instrument: Gep.i  
 Operator: DEK  
 Column diameter: 0.53



Data File Name: PSMP334.D

TestAmerica St. Louis

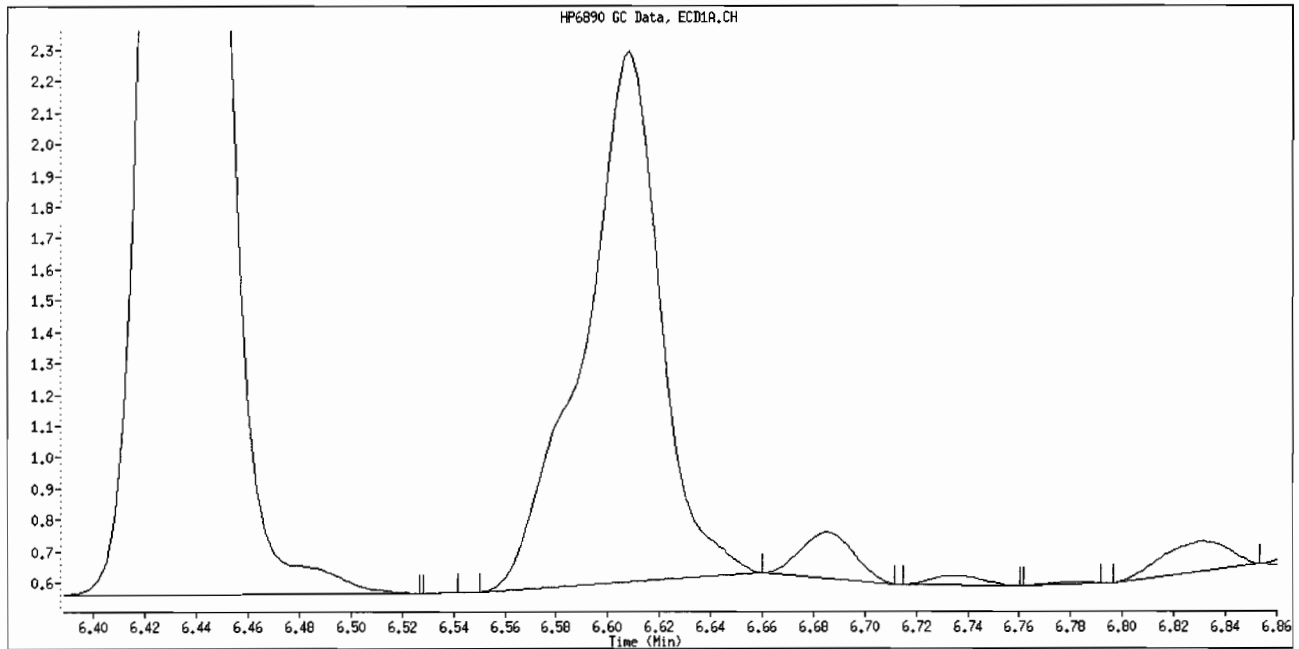
Inj. Date and Time: 16-APR-2010 20:50

Instrument ID: Gcp.i

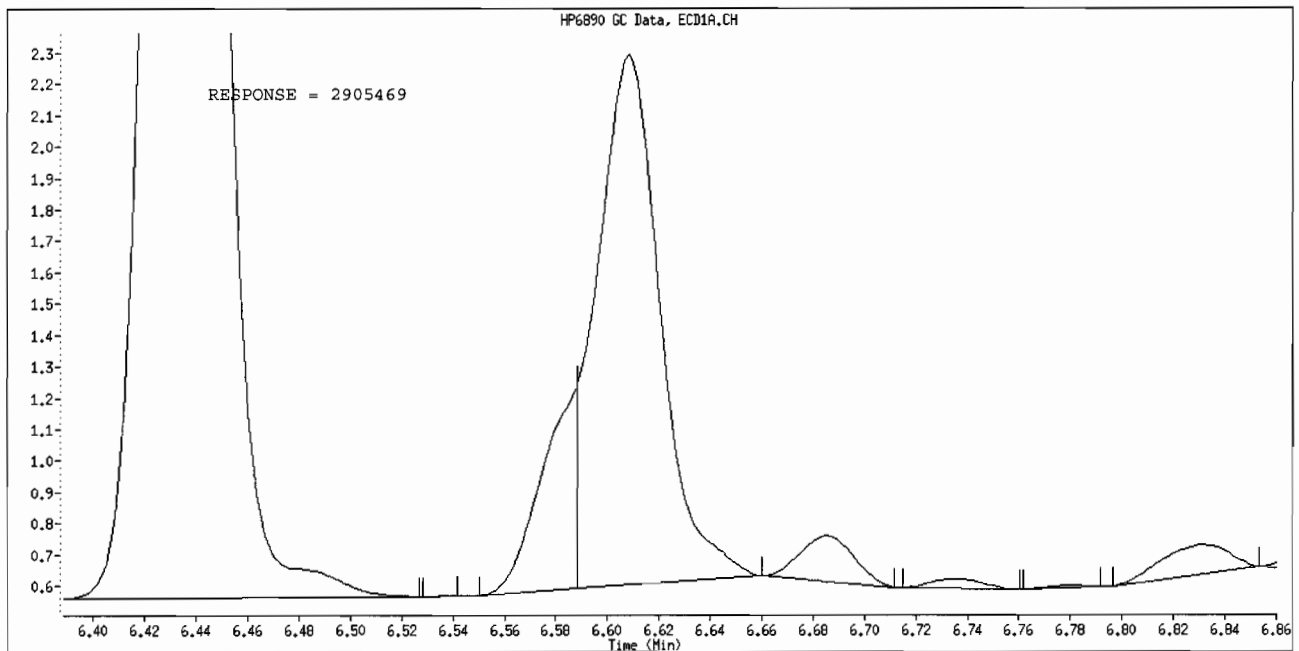
Client ID: WST32-10-13889

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Split Peak

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP334.D  
Report Date: 17-Apr-2010 15:06

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP334.D  
Lab Smp Id: LXL41E6 Client Smp ID: WST32-10-13889  
Inj Date : 16-APR-2010 20:50  
Operator : DEK Inst ID: Gcp.i  
Smp Info : LXL41E6  
Misc Info : F0D070439-002S  
Comment :  
Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
Als bottle: 32 QC Sample: MS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: son.sub  
Target Version: 4.14 Sample Matrix: SOIL  
Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

# CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	ON-COL	FINAL	TARGET RANGE	RATIO
22							
Aroclor-1016					CAS #: 12674-11-2		
2.536	2.537	-0.001	1655642 854.508	284.8	80.00- 120.00	100.00 (M)	
2.908	2.909	-0.001	4188463 1084.08	361.4	39.13- 352.14	252.98	
3.335	3.336	-0.001	3934515 522.806	174.3	82.65- 743.87	237.64	
3.460	3.462	-0.002	2333073 723.412	241.1	33.34- 300.05	140.92	
3.903	3.906	-0.003	1814166 746.306	248.8	25.31- 227.81	109.57	
Average of Peak Concentrations =				262.1			

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	ON-COL	FINAL	TARGET RANGE	RATIO
28							
Aroclor-1260					CAS #: 11096-82-5		
5.100	5.101	-0.001	95653222 20880.8	6960	80.00- 120.00	100.00 (M)	
5.298	5.299	-0.001	130453309 23203.1	7734	24.85- 223.64	136.38	
5.631	5.631	0.000	192789435 27022.1	9007	31.80- 286.22	201.55	
5.993	5.994	-0.001	92846937 20425.4	6808	20.05- 180.48	97.07	
6.231	6.231	0.000	248205975 22738.6	7580	49.55- 445.94	259.49	
Average of Peak Concentrations =				7618			

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	ON-COL	FINAL	TARGET RANGE	RATIO
\$ 32							
Decachlorobiphenyl					CAS #:		
7.660	7.659	0.001	2055312 24.0524	8.017		(M)	



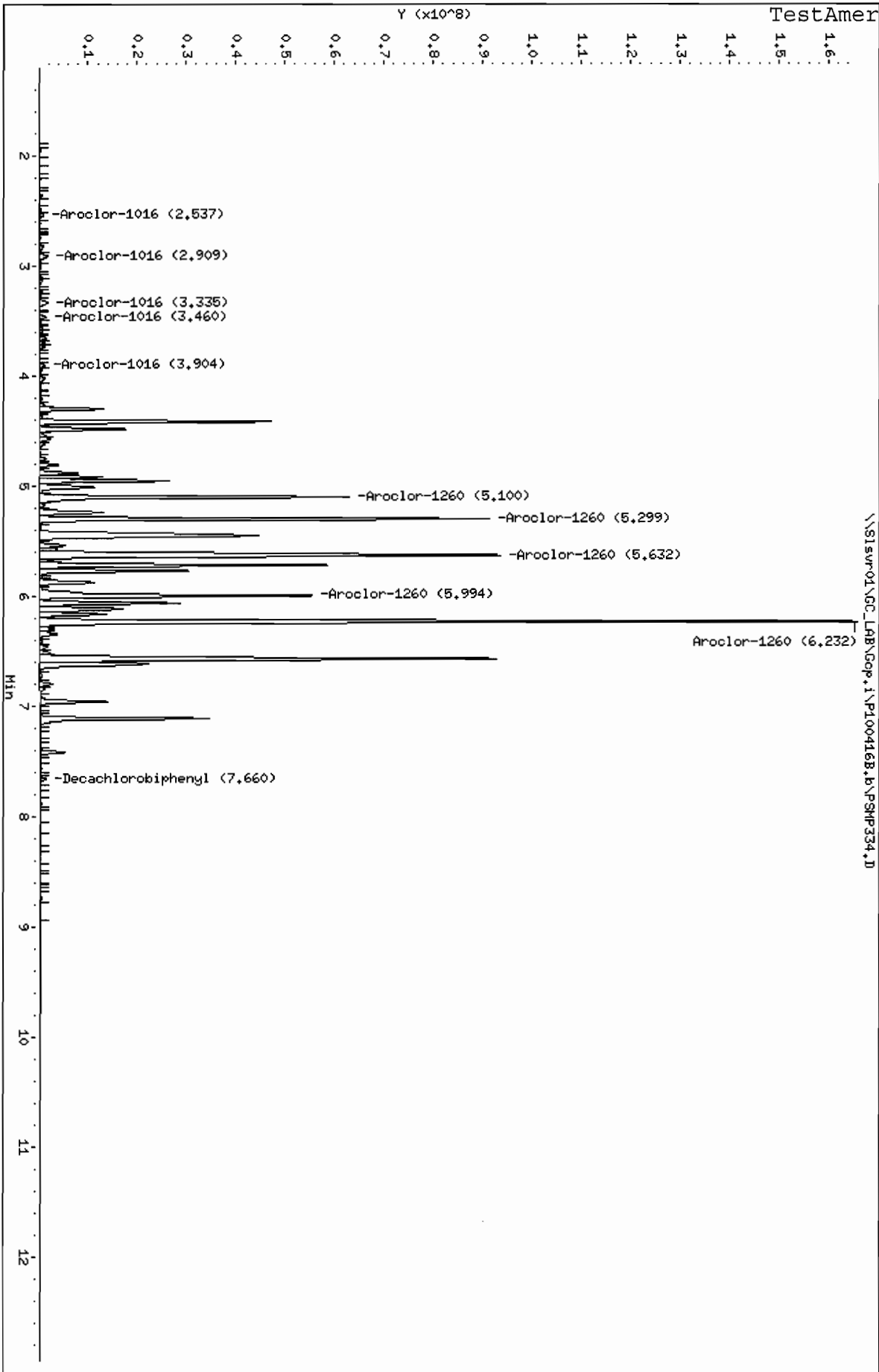
Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP334.D  
Report Date: 17-Apr-2010 15:06

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsvr01\GC\_LAB\Gop.i\PI00416B.b\PSHP334.D  
Date: 16-APR-2010 20:50  
Client ID: MST32-10-13889  
Sample Info: LXL41E6  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gop.i  
Operator: IEK  
Column diameter: 0.53



Data File Name: PSMP334.D

TestAmerica St. Louis

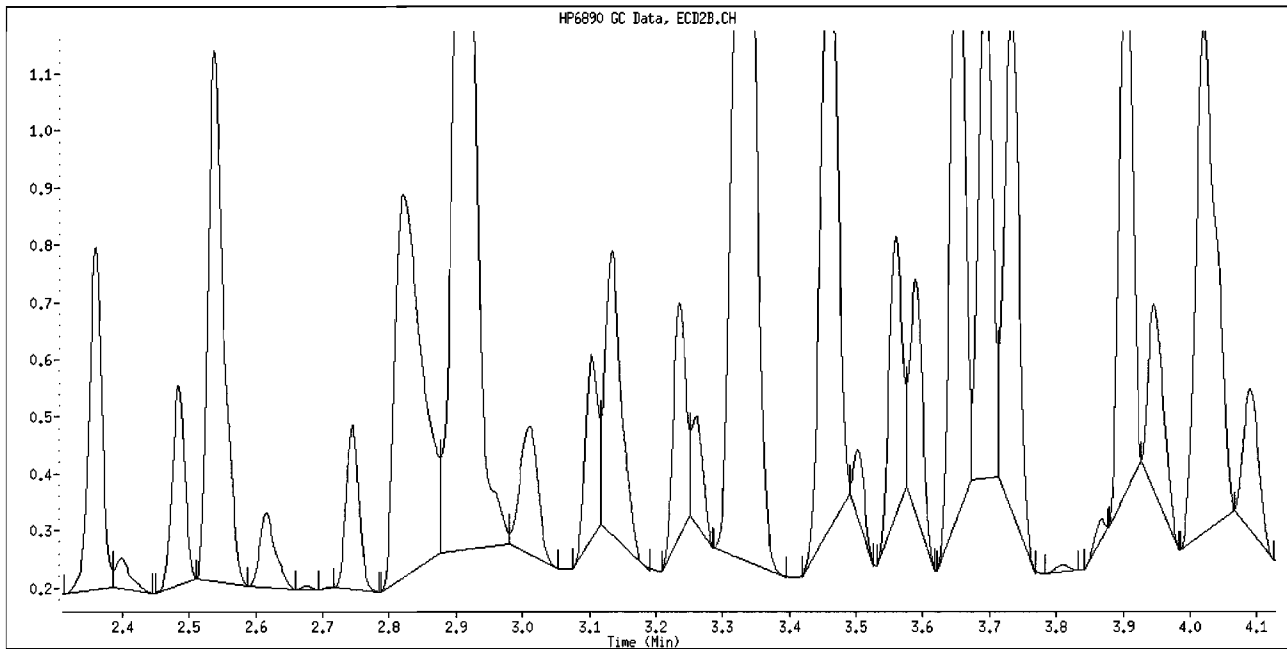
Inj. Date and Time: 16-APR-2010 20:50

Instrument ID: Gcp.i

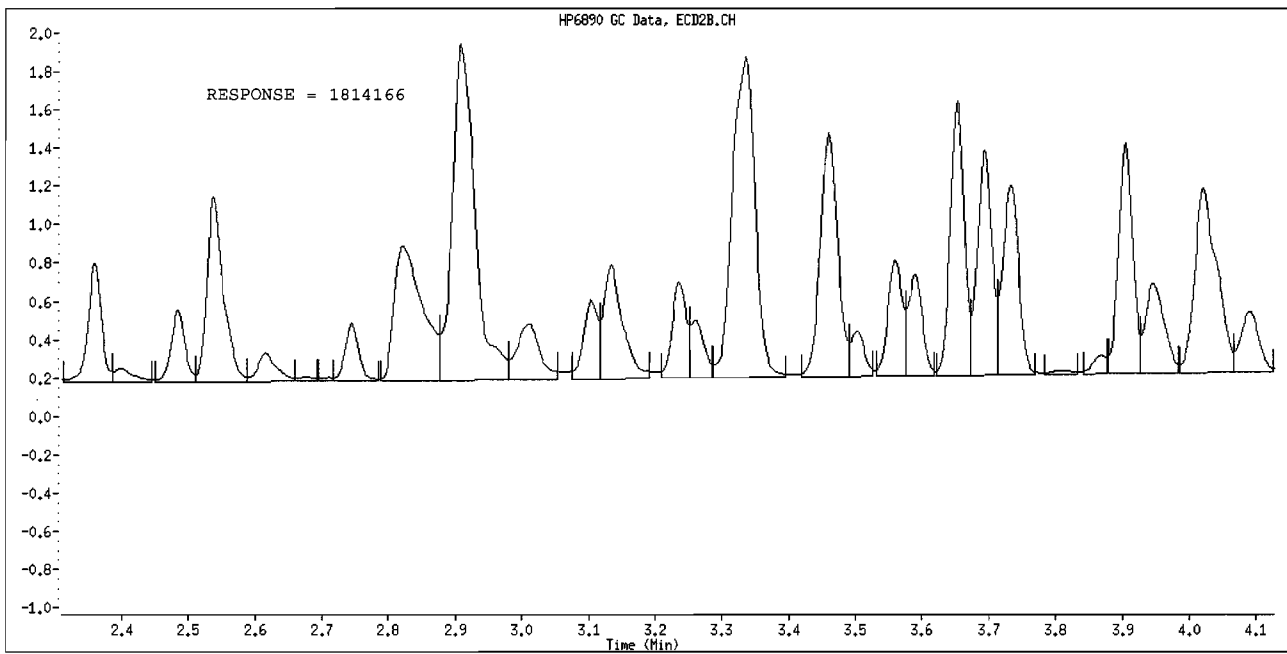
Client ID: WST32-10-13889

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PSMP334.D

TestAmerica St. Louis

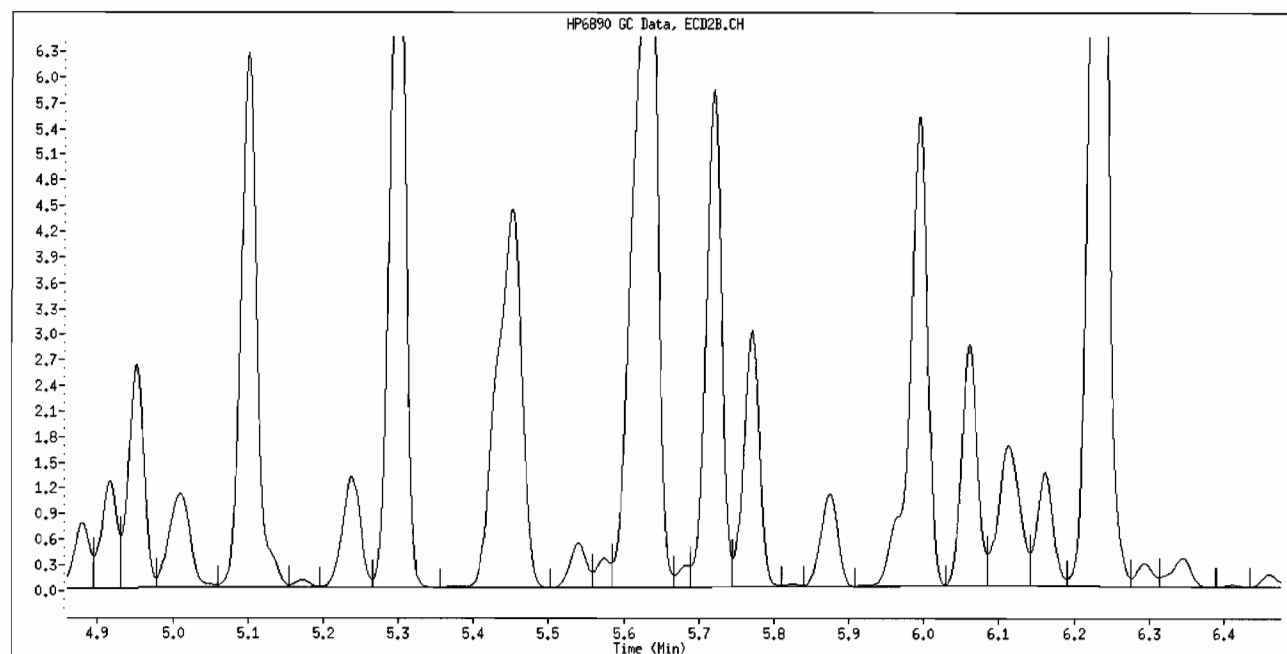
Inj. Date and Time: 16-APR-2010 20:50

Instrument ID: Gcp.i

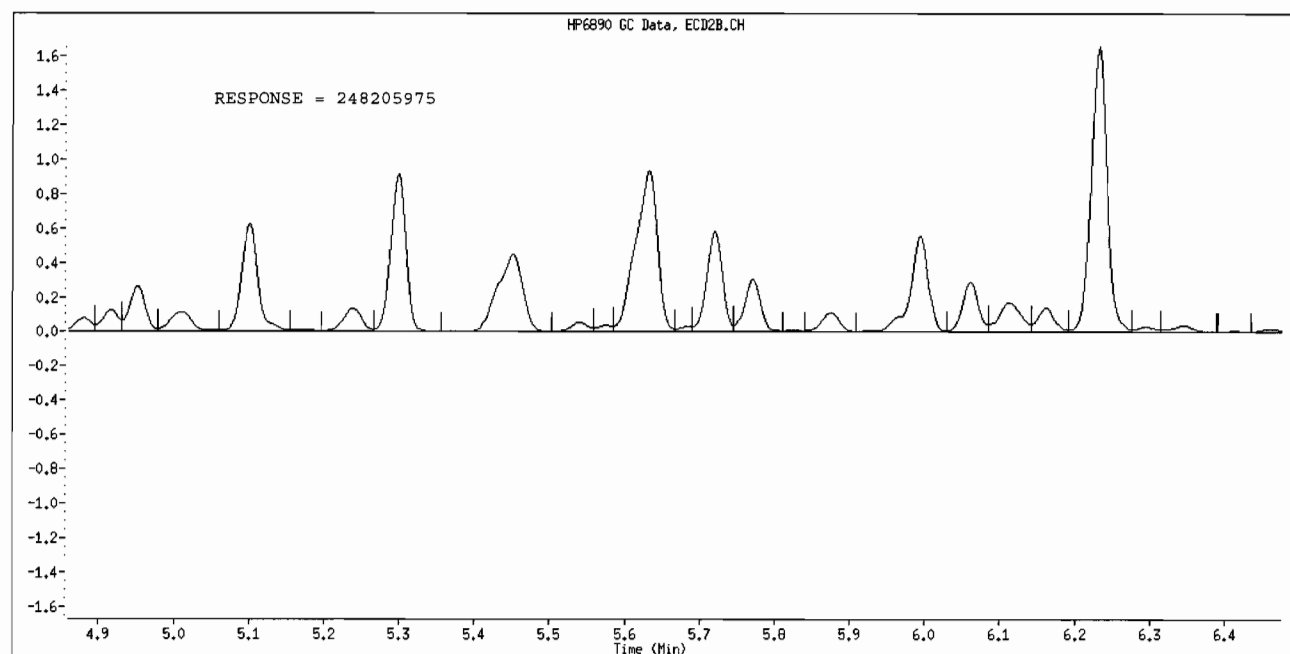
Client ID: WST32-10-13889

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

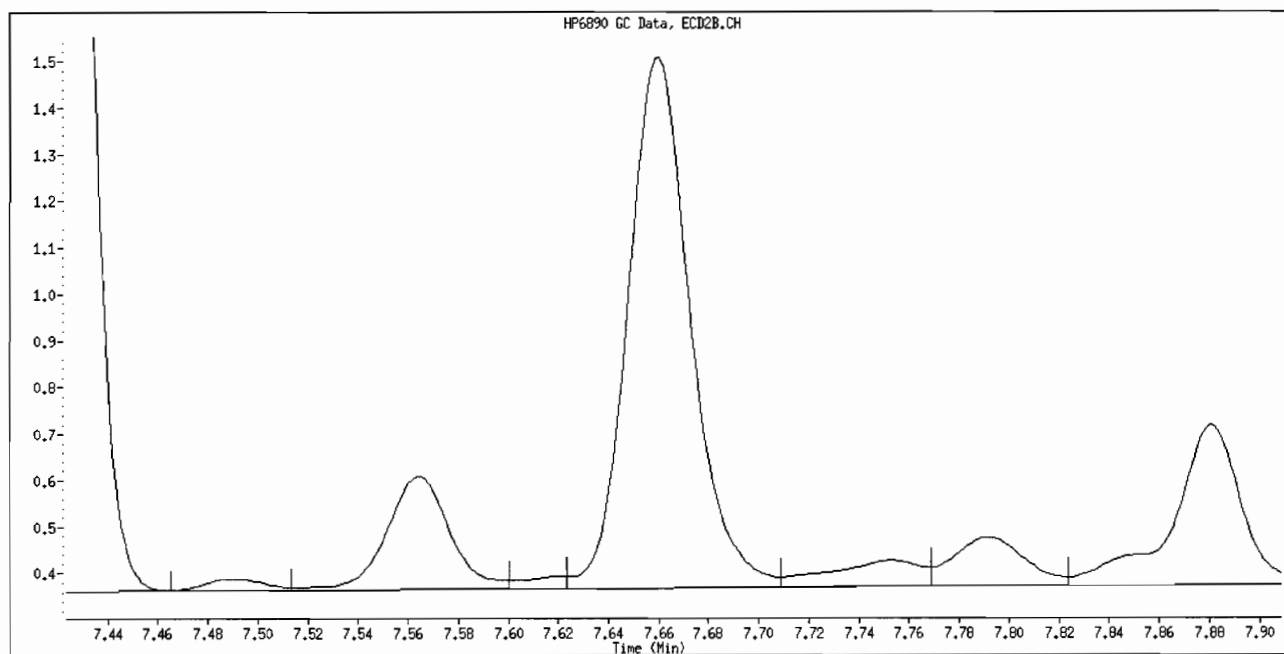
Inj. Date and Time: 16-APR-2010 20:50

Instrument ID: Gcp.i

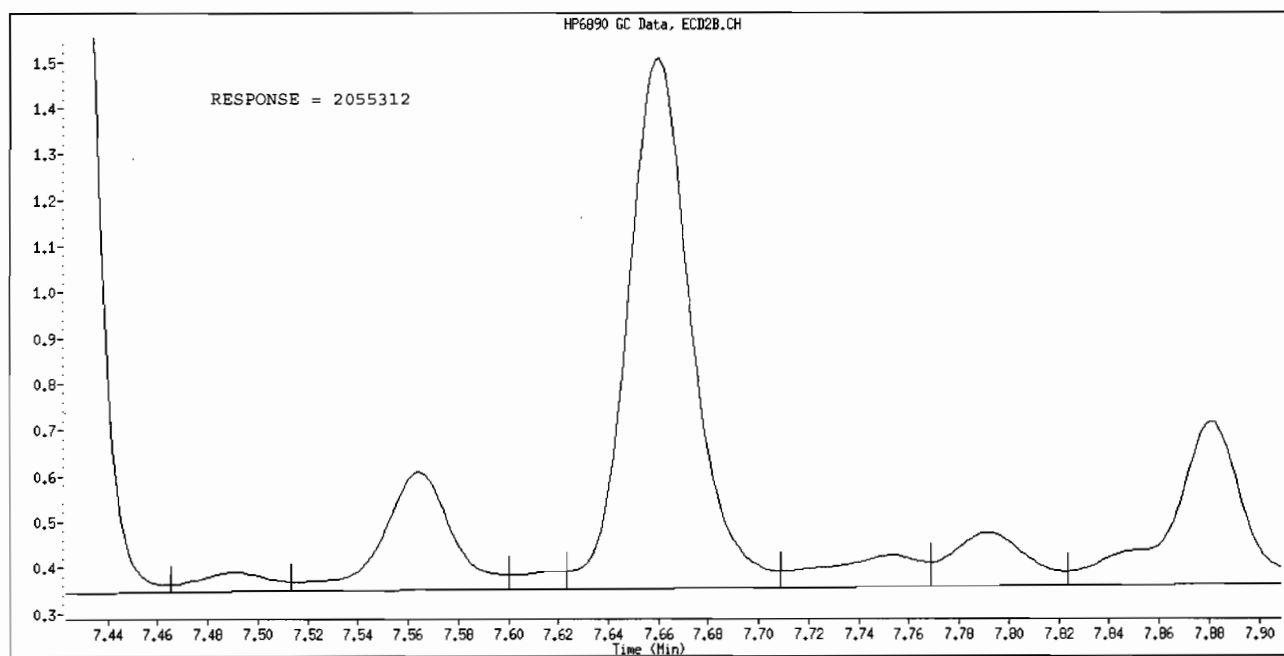
Client ID: WST32-10-13889

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP335.D  
 Report Date: 17-Apr-2010 10:46

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\PSMP335.D  
 Lab Smp Id: LXL41E7 Client Smp ID: WST32-10-13889  
 Inj Date : 16-APR-2010 21:09  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXL41E7  
 Misc Info : F0D070439-002D  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416A.b\8082A.m  
 Meth Date : 17-Apr-2010 10:29 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 33 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
----	--------	--------	--------	-------	--------------	-------

22 Aroclor-1016			CAS #: 12674-11-2			
1.966	1.965	0.001	1611995 567.825	189.3	80.00- 120.00	100.00
2.241	2.240	0.001	6865960 1219.65	406.6	159.62- 239.43	425.93
2.624	2.624	0.000	6290910 542.821	180.9	336.87- 505.31	390.26
2.739	2.739	0.000	3174961 673.664	224.6	138.17- 207.25	196.96
3.096	3.095	0.001	3181954 657.363	219.1	143.10- 214.64	197.39
Average of Peak Concentrations =				244.1		

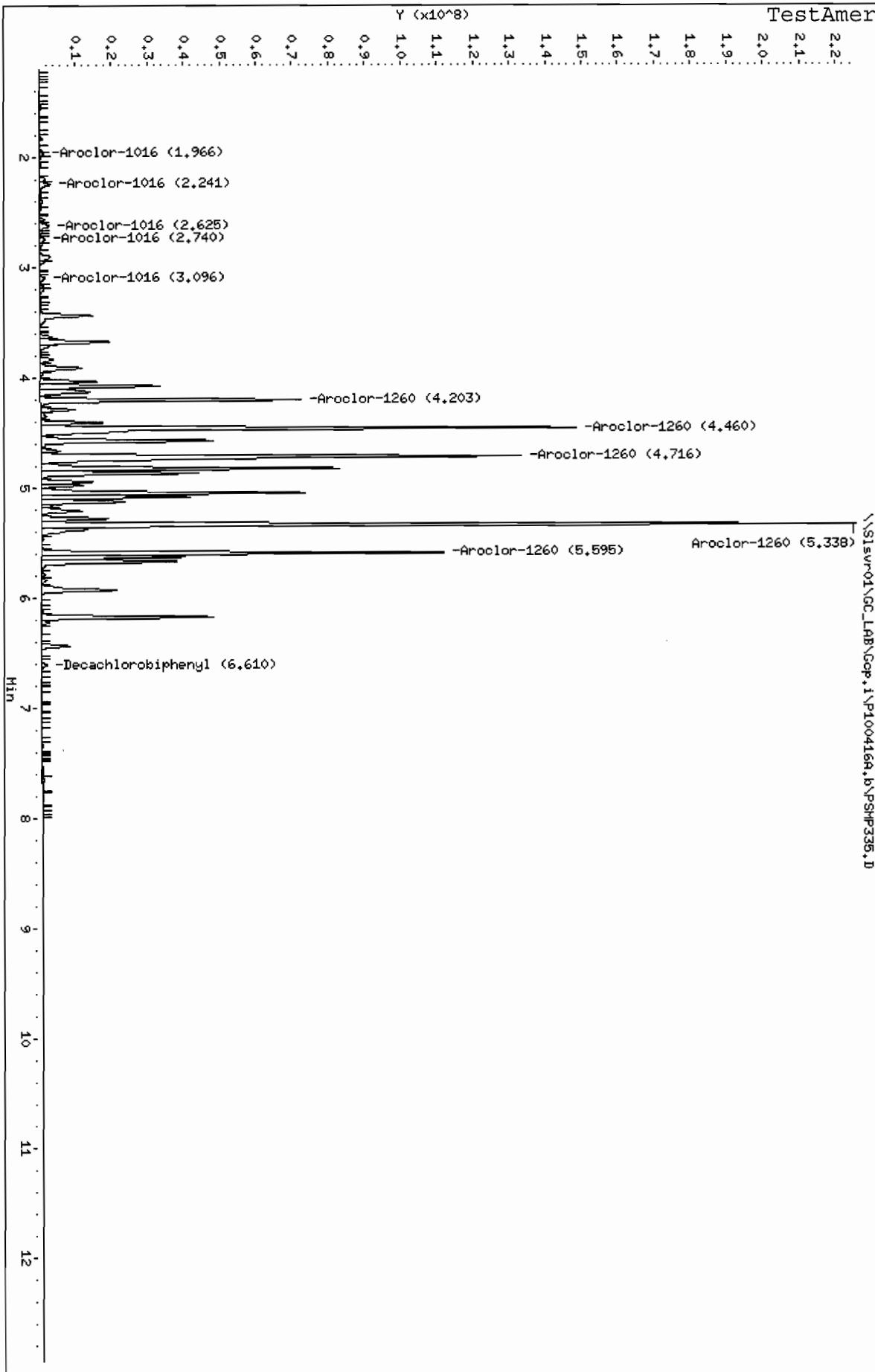
28 Aroclor-1260			CAS #: 11096-82-5			
4.203	4.200	0.003	117397512 16571.0	5524	80.00- 120.00	100.00
4.459	4.457	0.002	261137188 21242.6	7081	140.39- 210.58	222.44
4.716	4.712	0.004	264249241 21479.7	7160	141.56- 212.35	225.09
5.338	5.335	0.003	348625210 18059.9	6020	221.01- 331.51	296.96
5.594	5.594	0.000	174962058 19178.5	6393	105.78- 158.67	149.03
Average of Peak Concentrations =				6435		

\$ 32 Decachlorobiphenyl			CAS #:			
6.609	6.609	0.000	2843156 20.7576	6.919		

Data File: \\SISvr01\GC\_LAB\Gep.i\PI00416R.b\PSHP335.D  
Date: 16-APR-2010 21:09  
Client ID: MST32-10-13889  
Sample Info: LXR41E7  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gep.i  
Operator: DEK  
Column diameter: 0.53

Page 1



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP335.D  
 Report Date: 17-Apr-2010 15:07

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP335.D  
 Lab Smp Id: LXL41E7 Client Smp ID: WST32-10-13889  
 Inj Date : 16-APR-2010 21:09  
 Operator : DEK Inst ID: Gcp.i  
 Smp Info : LXL41E7  
 Misc Info : F0D070439-002D  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\8082B.m  
 Meth Date : 17-Apr-2010 15:02 target Quant Type: ESTD  
 Cal Date : 16-APR-2010 16:06 Cal File: PCAL319.D  
 Als bottle: 33 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
22	2.538	2.537	0.001	1681076 867.634	289.2 80.00- 120.00	100.00 (M)
2.908	2.909	-0.001	4363428 1129.36	376.4 39.13- 352.14	259.56	
3.334	3.336	-0.002	4390509 583.397	194.5 82.65- 743.87	261.17	
3.459	3.462	-0.003	2515179 779.877	260.0 33.34- 300.05	149.62	
3.904	3.906	-0.002	1776063 730.632	243.5 25.31- 227.81	105.65	

Average of Peak Concentrations = 272.7

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
28	5.101	5.101	0.000	91457761 19964.9	6655 80.00- 120.00	100.00 (M)
5.299	5.299	0.000	125888789 22391.3	7464 24.85- 223.64	137.65	
5.633	5.631	0.002	187768506 26318.3	8773 31.80- 286.22	205.31	
5.994	5.994	0.000	90847997 19985.7	6662 20.05- 180.48	99.33	
6.233	6.231	0.002	248196840 22737.7	7579 49.55- 445.94	271.38	

Average of Peak Concentrations = 7426

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
\$ 32	7.659	7.659	0.000	2171648 25.4138	8.471	(M)



Data File: \\Slsvr01\GC\_LAB\Gcp.i\P100416B.b\PSMP335.D  
Report Date: 17-Apr-2010 15:07

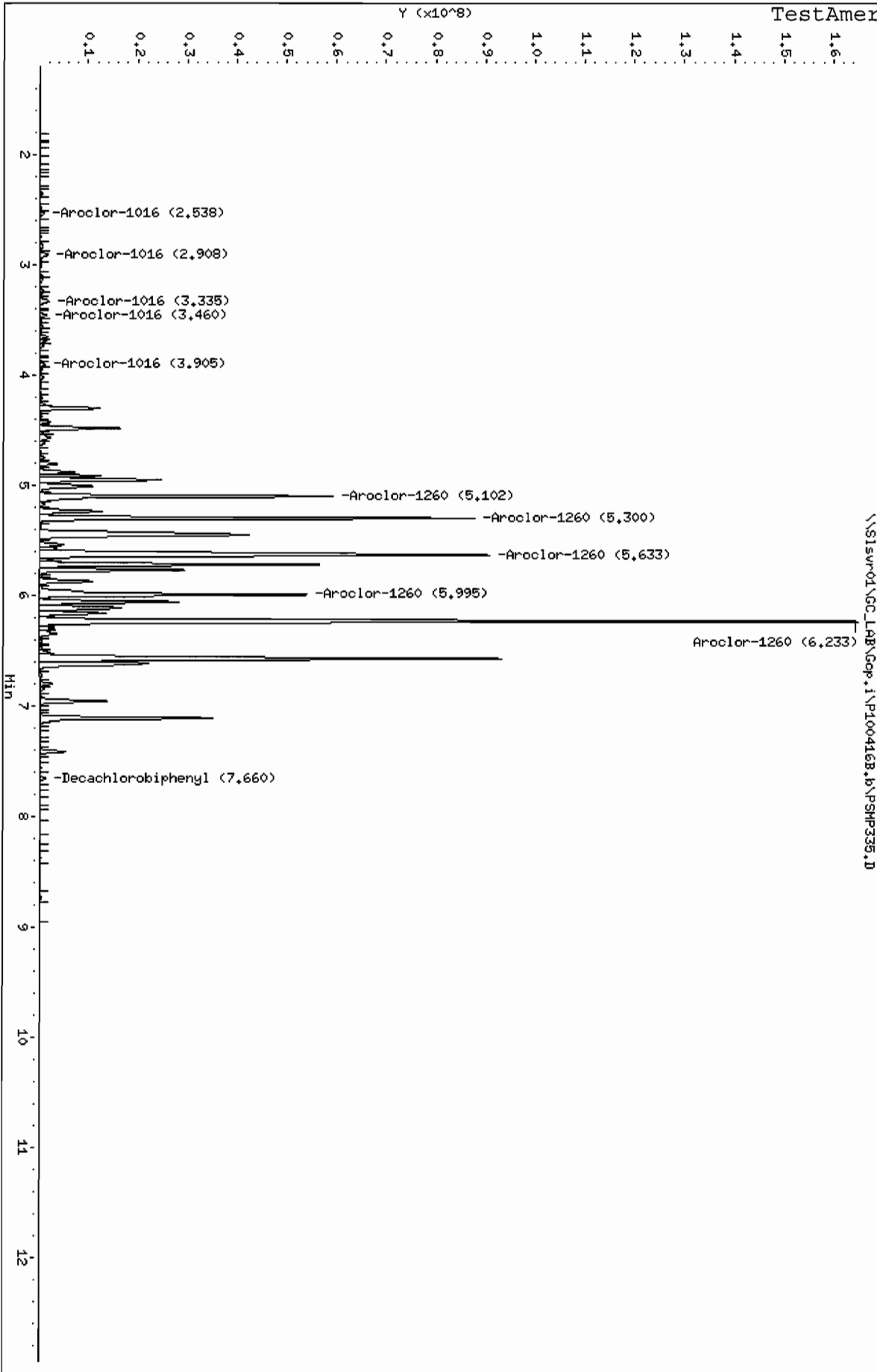
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gcp.1\P100416B.b\PSHP335.D  
Date: 16-APR-2010 21:09  
Client ID: MST32-10-13889  
Sample Info: LMLR4LE7  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gcp.1  
Operator: DEK  
Column diameter: 0.53



Data File Name: PSMP335.D

TestAmerica St. Louis

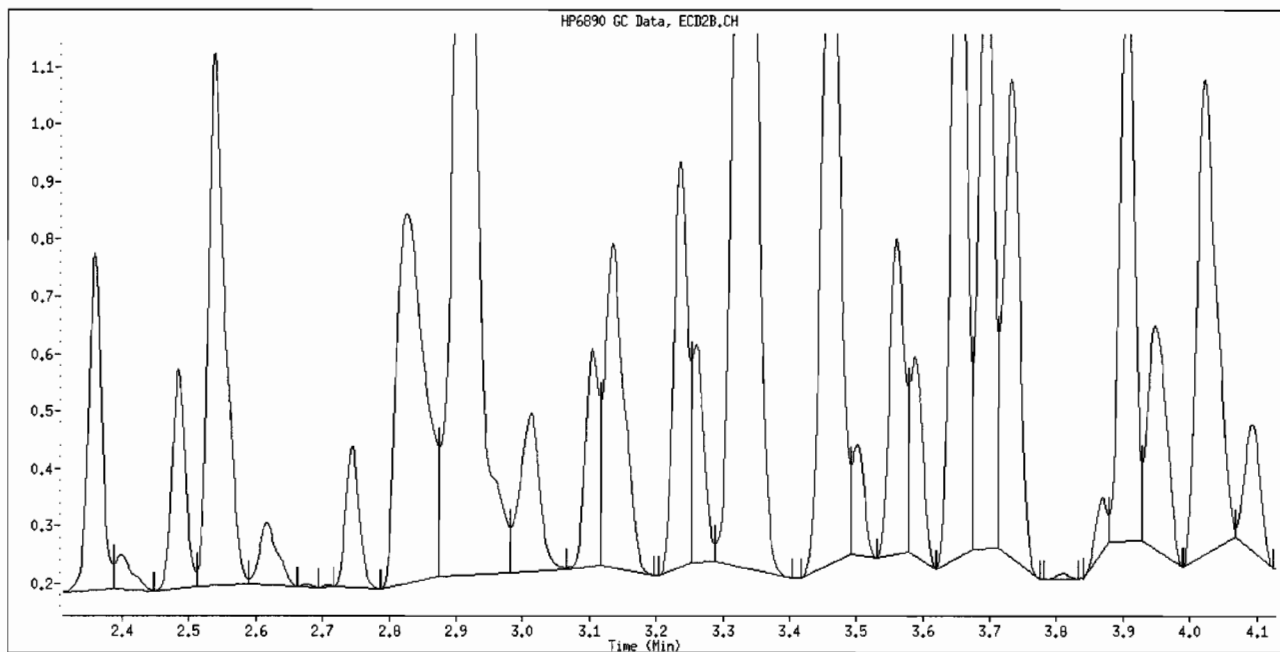
Inj. Date and Time: 16-APR-2010 21:09

Instrument ID: Gcp.i

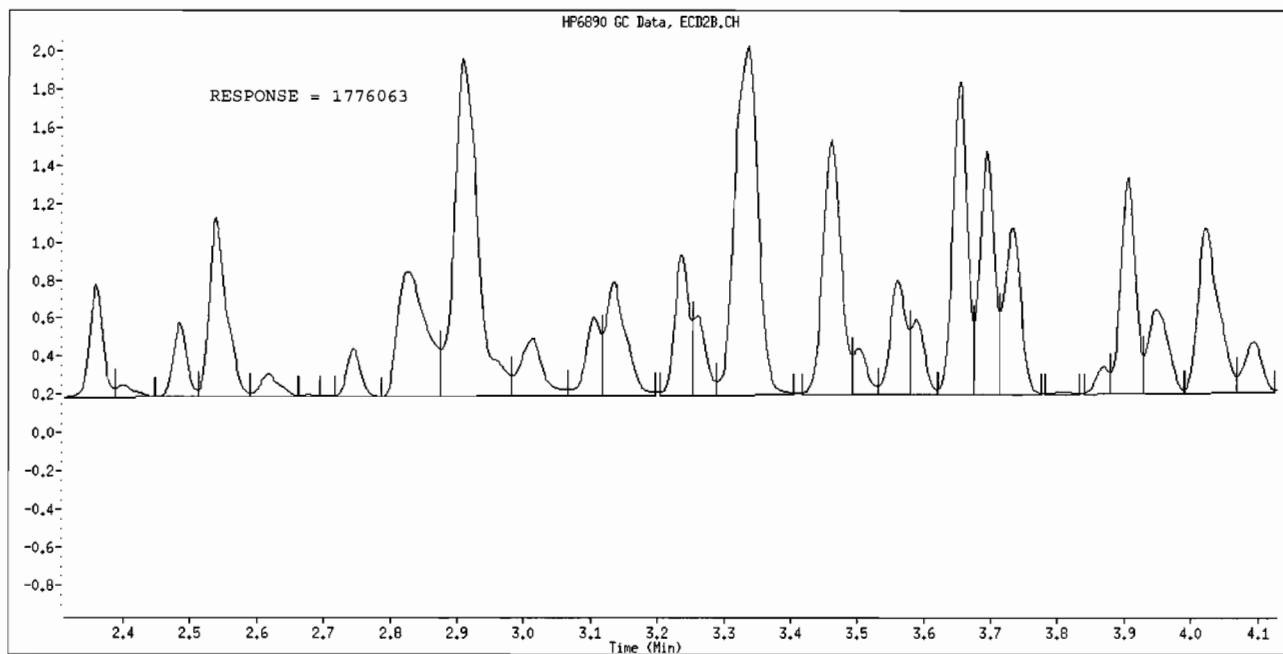
Client ID: WST32-10-13889

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PSMP335.D

TestAmerica St. Louis

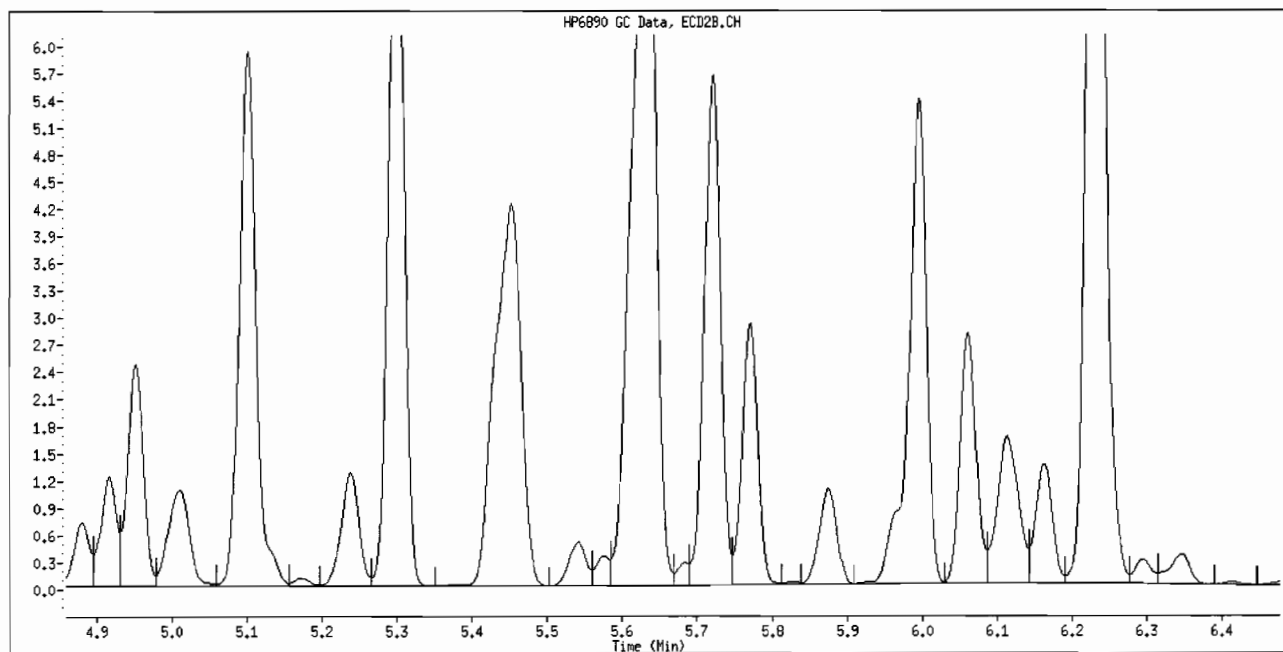
Inj. Date and Time: 16-APR-2010 21:09

Instrument ID: Gcp.i

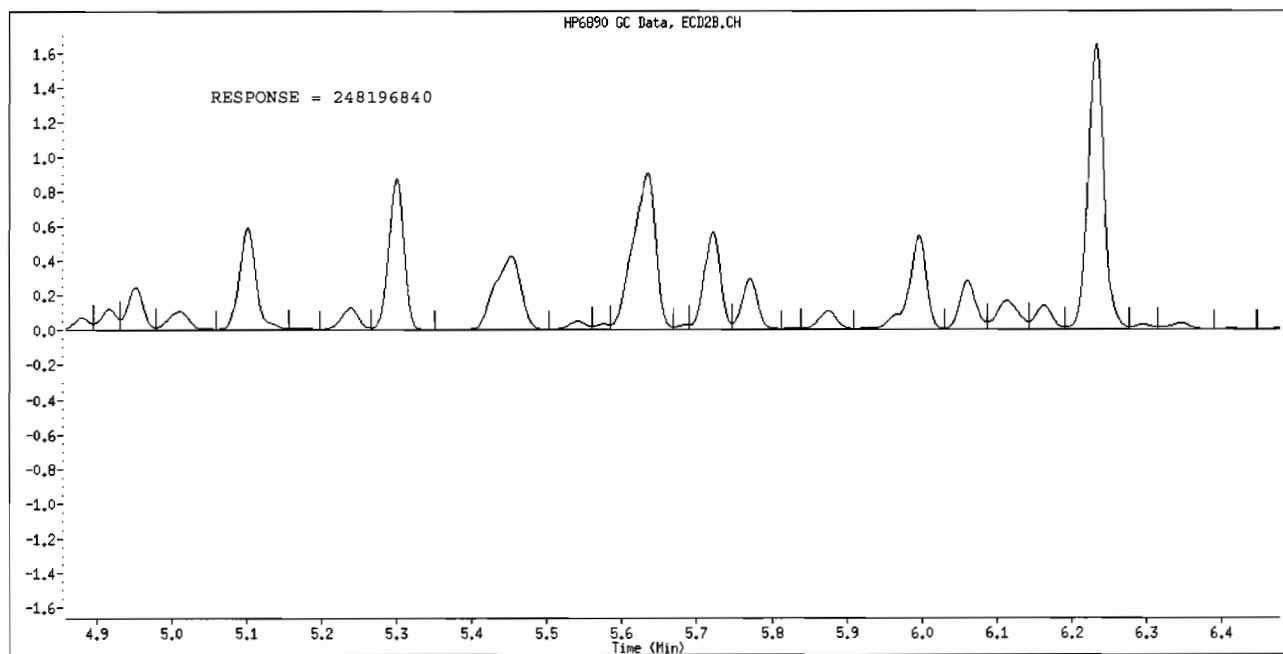
Client ID: WST32-10-13889

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: PSMP335.D

TestAmerica St. Louis

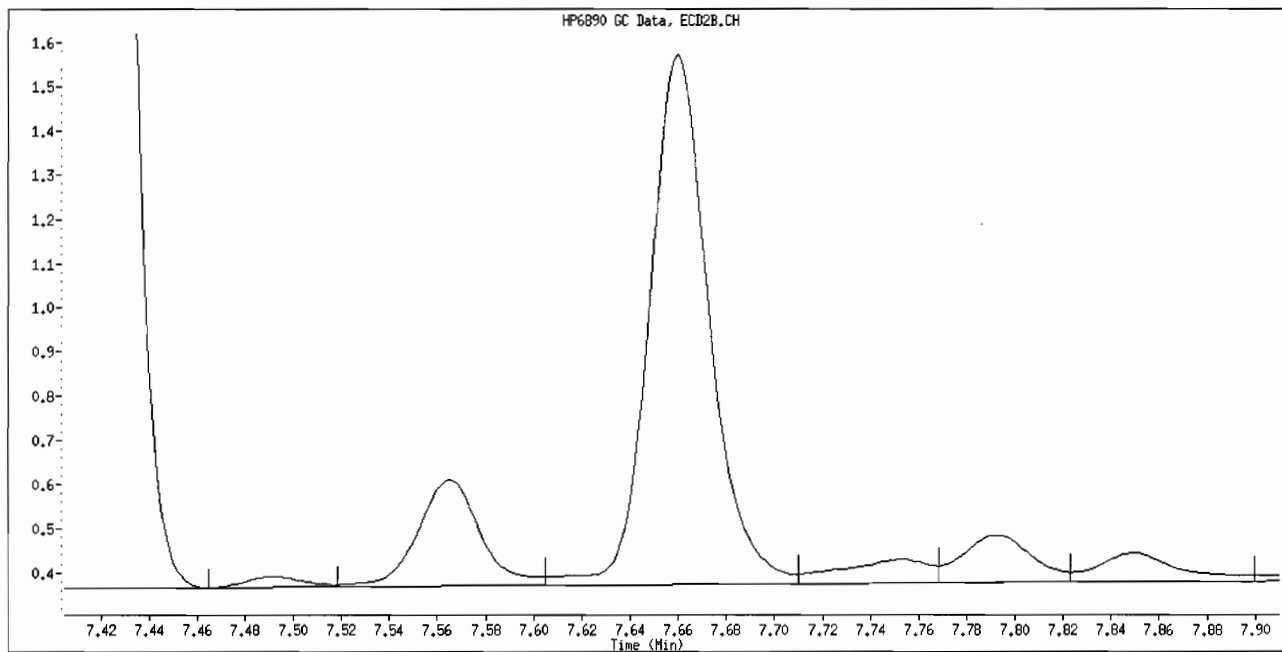
Inj. Date and Time: 16-APR-2010 21:09

Instrument ID: Gcp.i

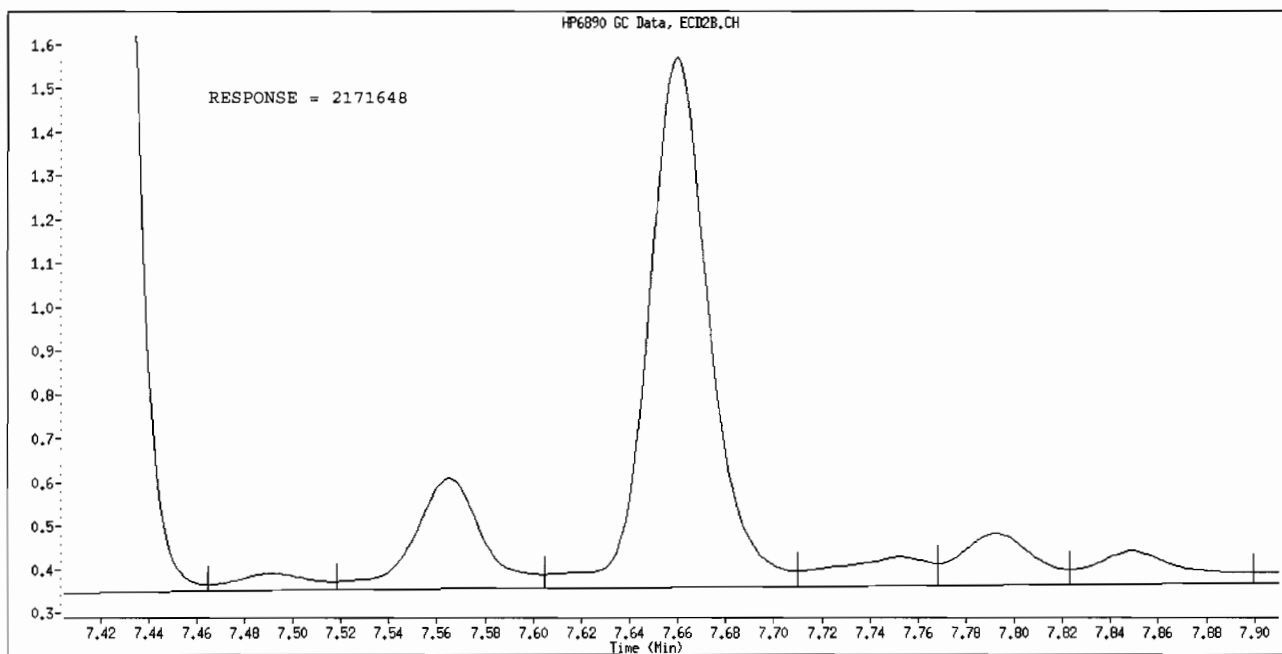
Client ID: WST32-10-13889

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP636.D

Page 1

Report Date: 15-Apr-2010 13:34

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP636.D  
 Lab Smp Id: LXNJ91AJ Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 08:15  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AJ  
 Misc Info : F0D080489-001S  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 10 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					
22	Aroclor-1016			CAS #: 12674-11-2		
2.214	2.220	-0.006	703132	488.781	162.9 80.00- 120.00	100.00 (M)
2.504	2.510	-0.006	1465934	466.637	155.5 163.27- 244.90	208.49
2.906	2.910	-0.004	3079332	494.700	164.9 340.93- 511.39	437.94
3.022	3.028	-0.006	1205035	482.781	160.9 138.45- 207.68	171.38
3.387	3.391	-0.004	1296604	494.928	165.0 141.11- 211.67	184.40
Average of Peak Concentrations =			161.8			

28	Aroclor-1260			CAS #: 11096-82-5		
4.506	4.511	-0.005	1916820	527.194	175.7 80.00- 120.00	100.00 (M)
4.764	4.770	-0.006	2694976	530.411	176.8 115.06- 172.58	140.60
5.021	5.028	-0.007	2837145	528.246	176.1 121.53- 182.30	148.01
5.646	5.651	-0.005	3830145	554.721	184.9 163.07- 244.60	199.82
5.907	5.913	-0.006	1923141	543.071	181.0 81.24- 121.86	100.33
Average of Peak Concentrations =			178.9			

\$ 32	Decachlorobiphenyl			CAS #:		
6.927	6.933	-0.006	1132606	23.1527	7.718	(M)

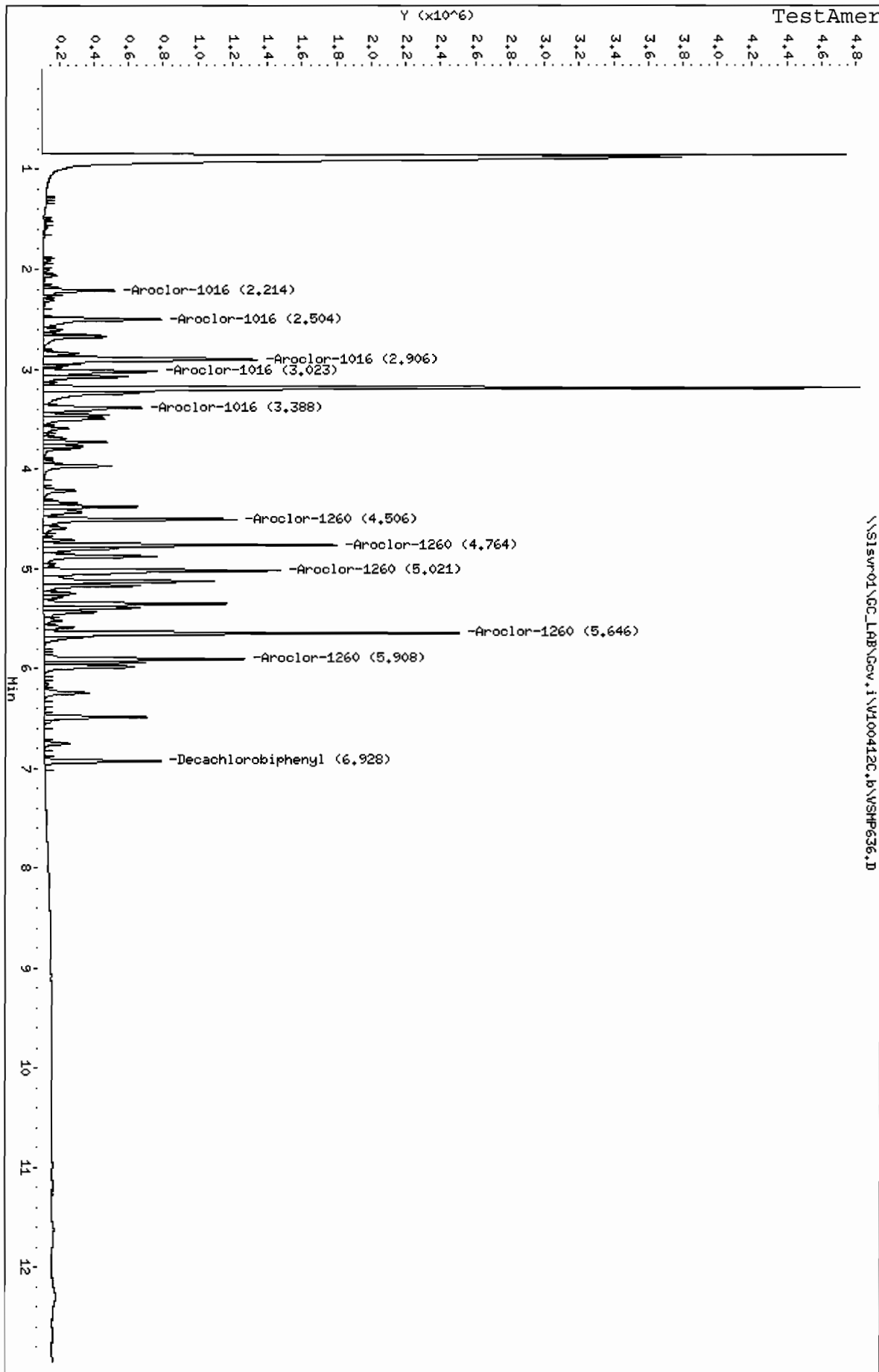
Data File: \\slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP636.D  
Report Date: 15-Apr-2010 13:34

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\W100412C.b\VSHPE36.D  
Date: 15-APR-2010 08:15  
Client ID: RE12-10-15444  
Sample Info: LXNJ21A.J  
Volume Injected (uL): 2.0  
Column phase: CLPEST-1

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53





Data File Name: VSMP636.D

TestAmerica St. Louis

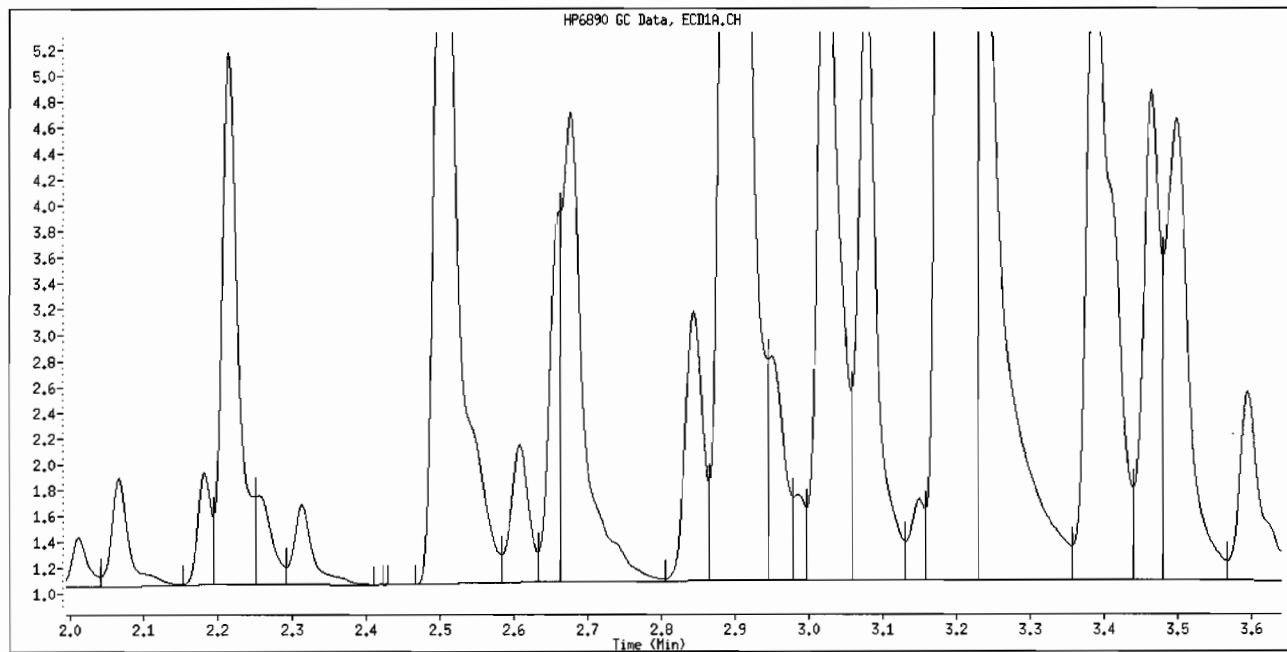
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

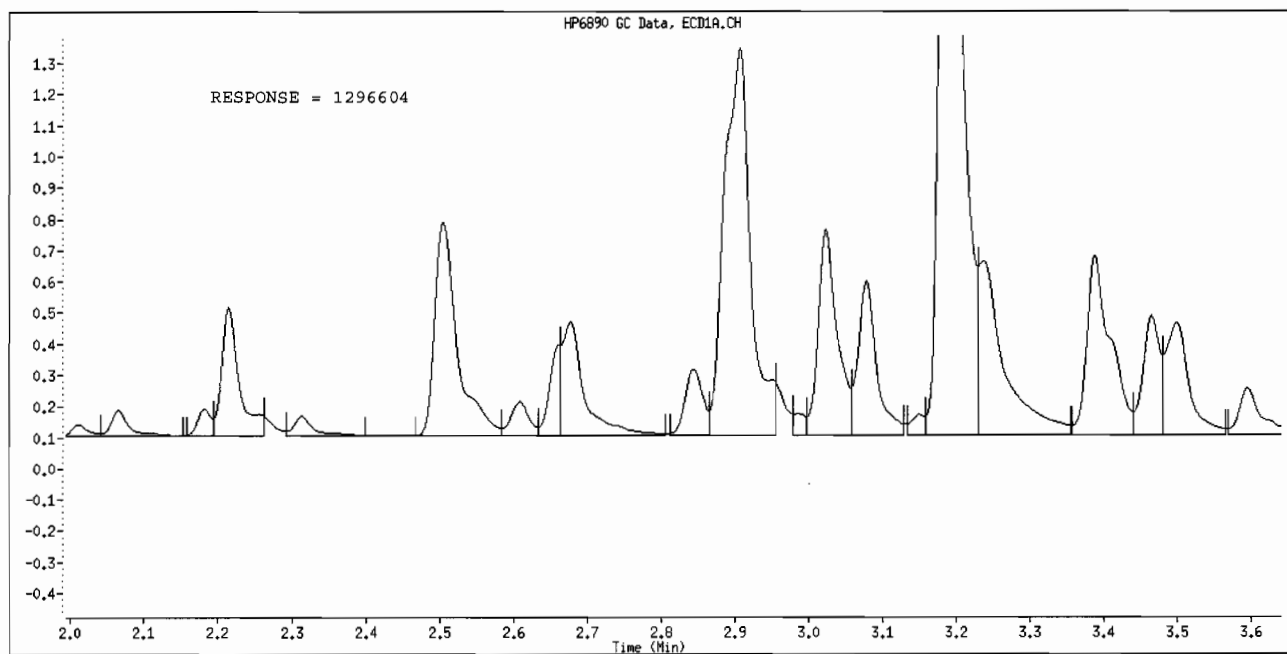
Client ID: RE12-10-15444

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP636.D

TestAmerica St. Louis

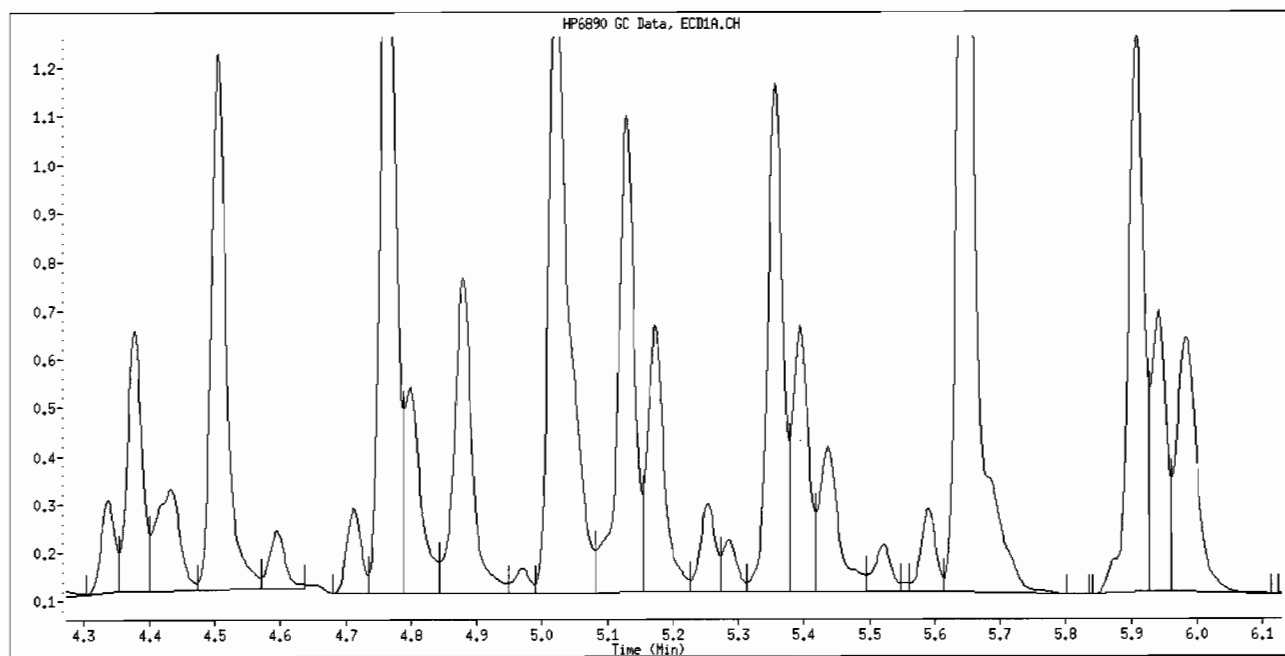
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

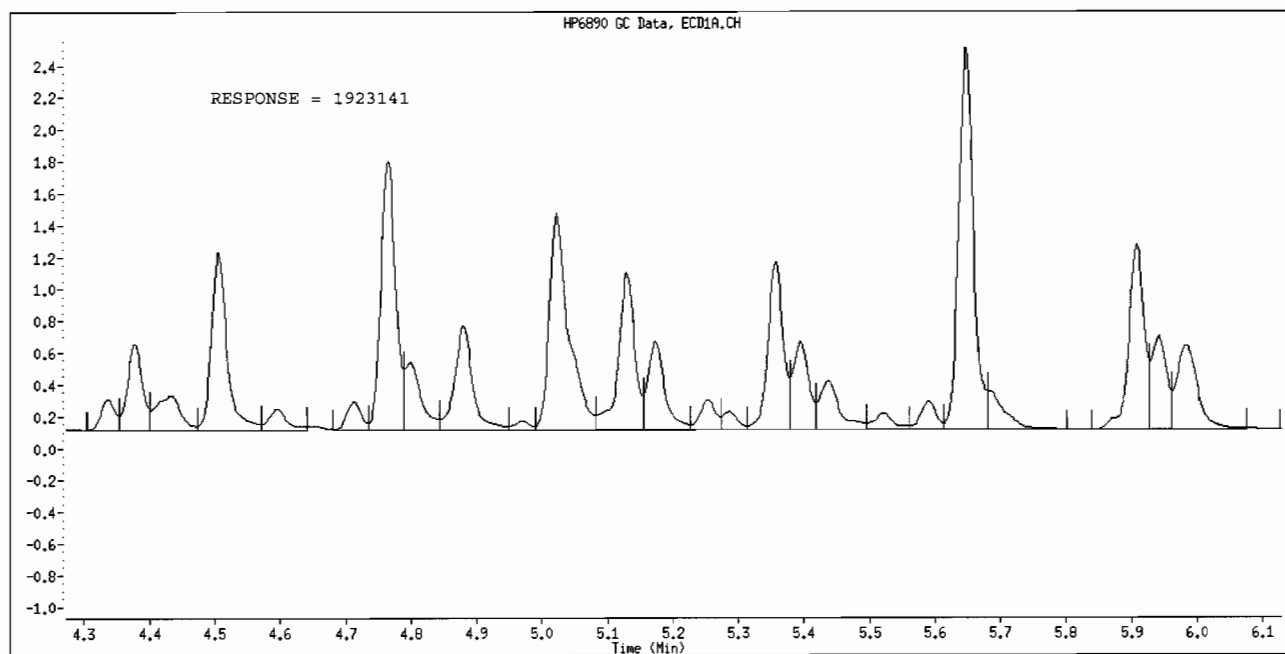
Client ID: RE12-10-15444

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP636.D

TestAmerica St. Louis

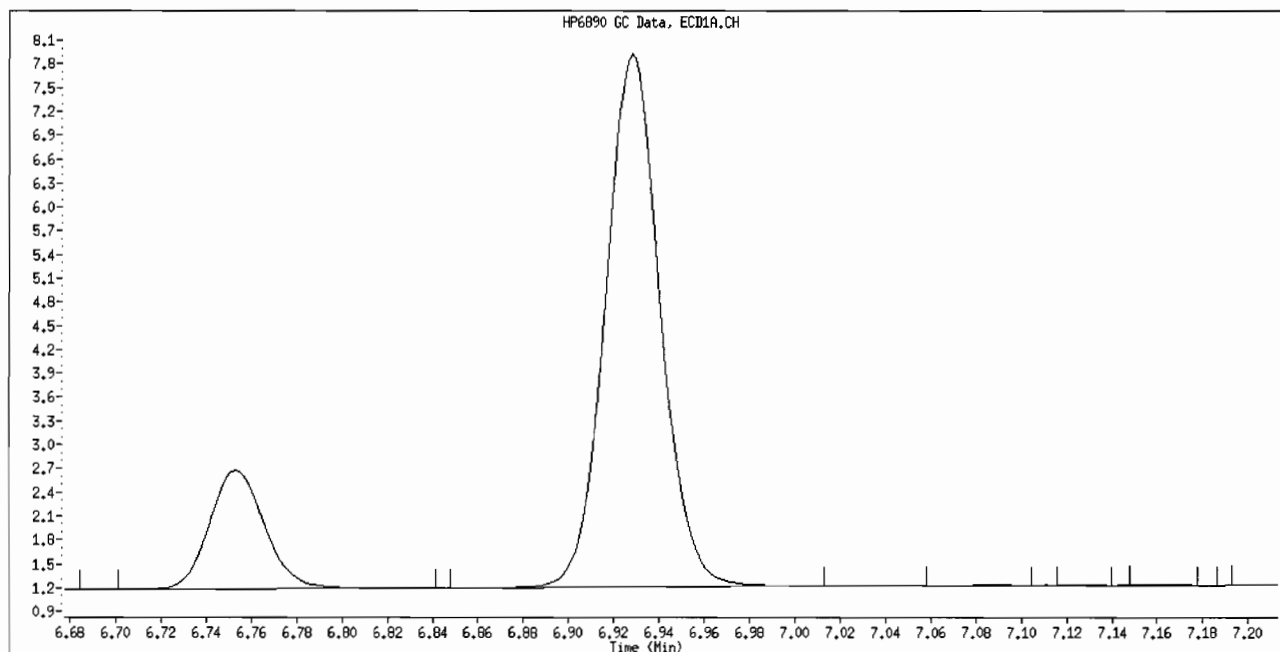
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

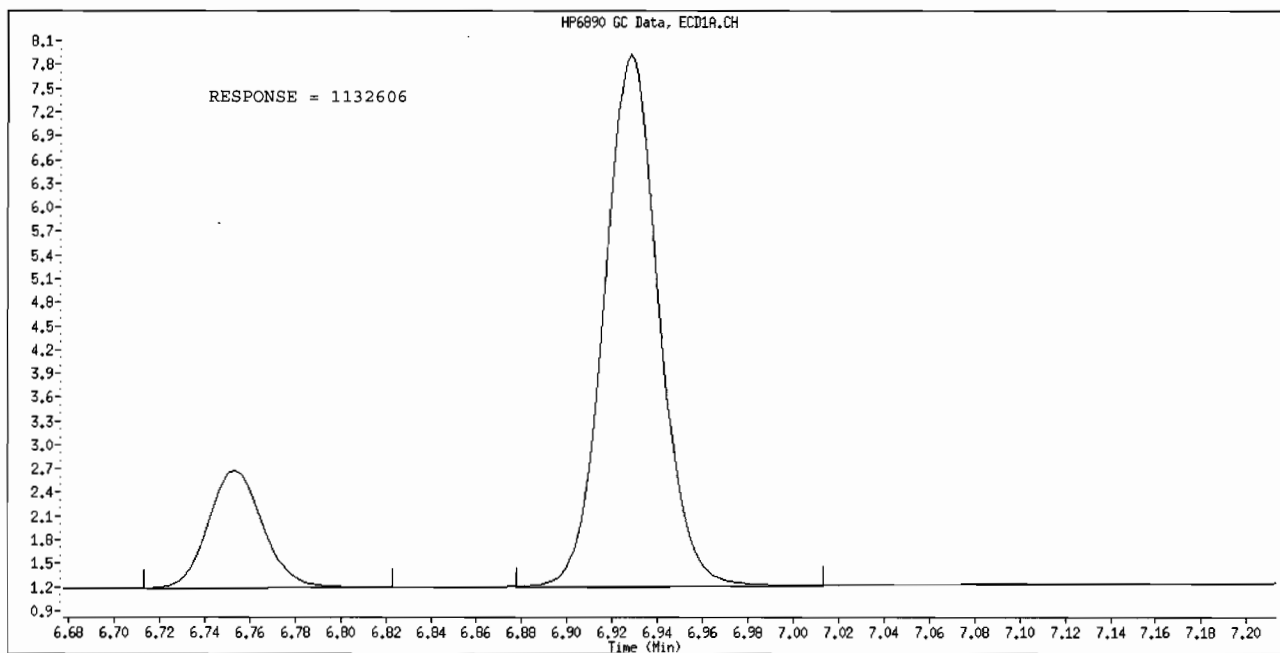
Client ID: RE12-10-15444

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP636.D

Page 1

Report Date: 15-Apr-2010 15:25

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP636.D  
 Lab Smp Id: LXNJ91AJ Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 08:15  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AJ  
 Misc Info : F0D080489-001S  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 10 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	RESPONSE (ng/mL)	ON-COL	FINAL	TARGET RANGE	RATIO
22							
Aroclor-1016					CAS #: 12674-11-2		
2.801	2.805	-0.004	955929 465.487	155.2	80.00- 120.00	100.00 (M)	
3.186	3.190	-0.004	2008018 485.420	161.8	38.73- 348.58	210.06	
3.627	3.630	-0.003	4124459 509.148	169.7	85.41- 768.72	431.46	
3.756	3.760	-0.004	1679233 504.676	168.2	34.47- 310.20	175.67	
4.204	4.206	-0.002	1237729 492.017	164.0	25.58- 230.19	129.48	
Average of Peak Concentrations =				163.8			

28 Aroclor-1260					CAS #: 11096-82-5		
5.409	5.411	-0.002	2677568 568.777	189.6	80.00- 120.00	100.00 (M)	
5.606	5.608	-0.002	2993616 585.861	195.3	22.36- 201.21	111.80	
5.944	5.946	-0.002	3960100 614.531	204.8	29.20- 262.77	147.90	
6.309	6.311	-0.002	2471681 589.468	196.5	18.44- 165.96	92.31	
6.542	6.546	-0.004	4878434 617.745	205.9	36.52- 328.70	182.20	
Average of Peak Concentrations =				198.4			

\$ 32 Decachlorobiphenyl					CAS #:		
7.982	7.986	-0.004	1302872 27.0659	9.022		(M)	

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP636.D  
Report Date: 15-Apr-2010 15:25

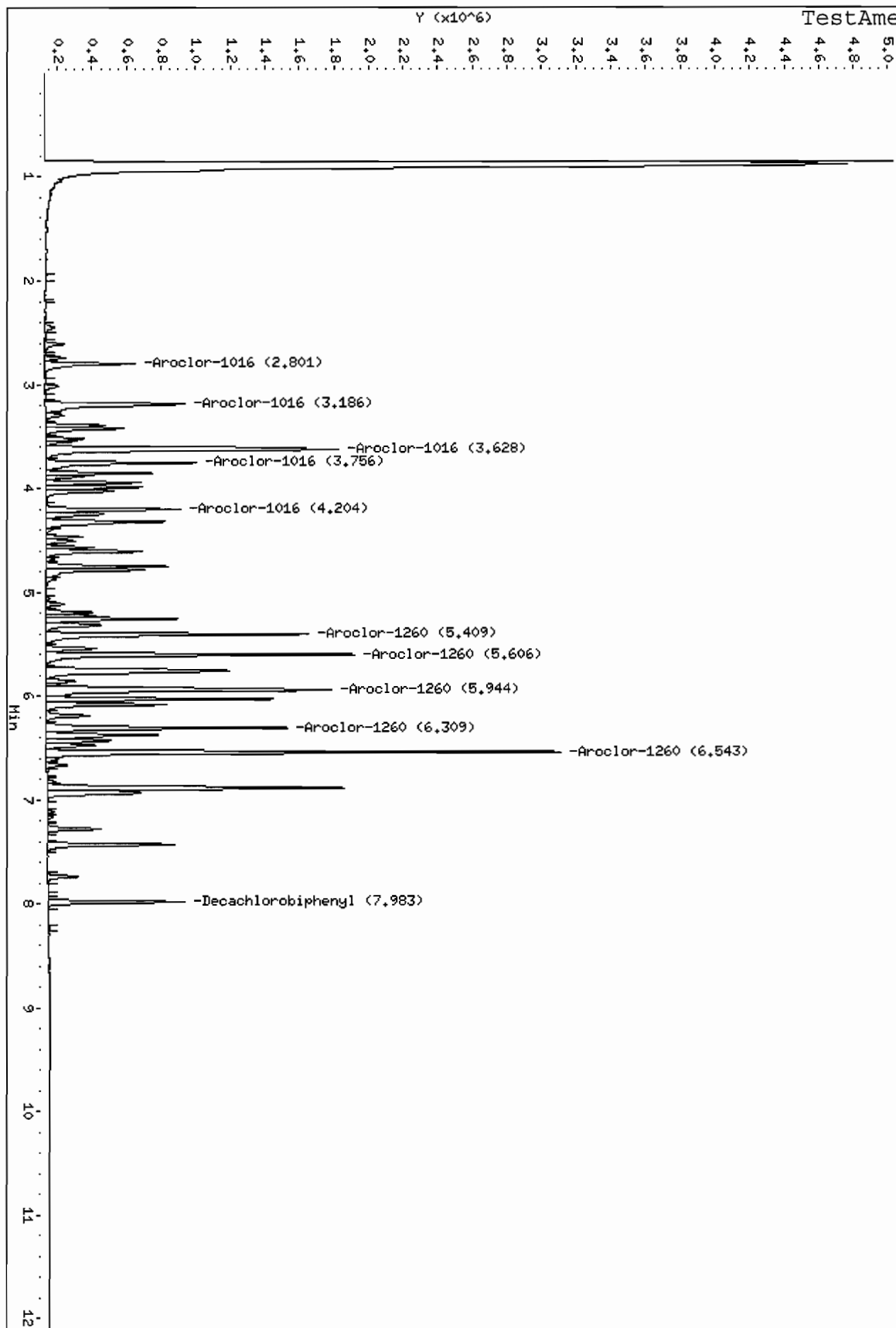
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SISvr01\GC\_LAB\Gov.i\1100412D.b\MSMP636.D  
Date: 15-APR-2010 08:15  
Client ID: RE12-10-15444  
Sample Info: LHM091AJ  
Volume Injected (uL): 2.0  
Column phase: CLPEST-2

Instrument: Gov.i  
Operator: DEK  
Column diameter: 0.53

\\SISvr01\GC\_LAB\Gov.i\1100412D.b\MSMP636.D



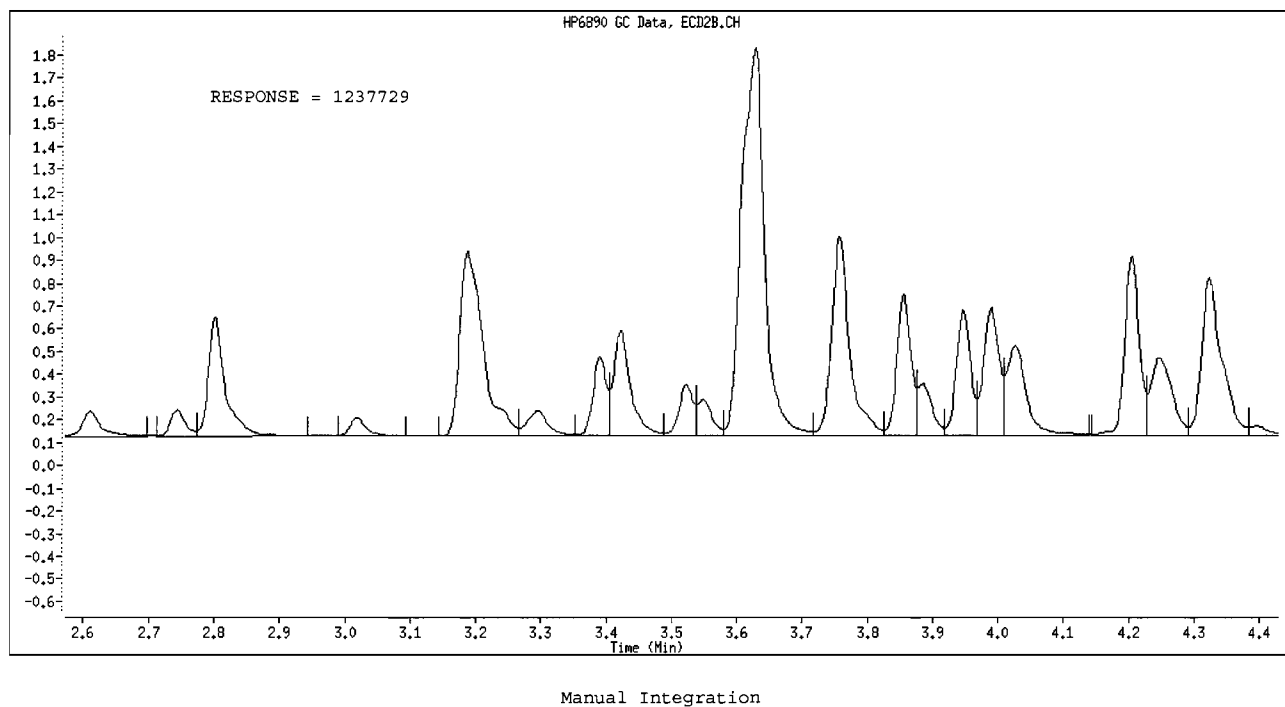
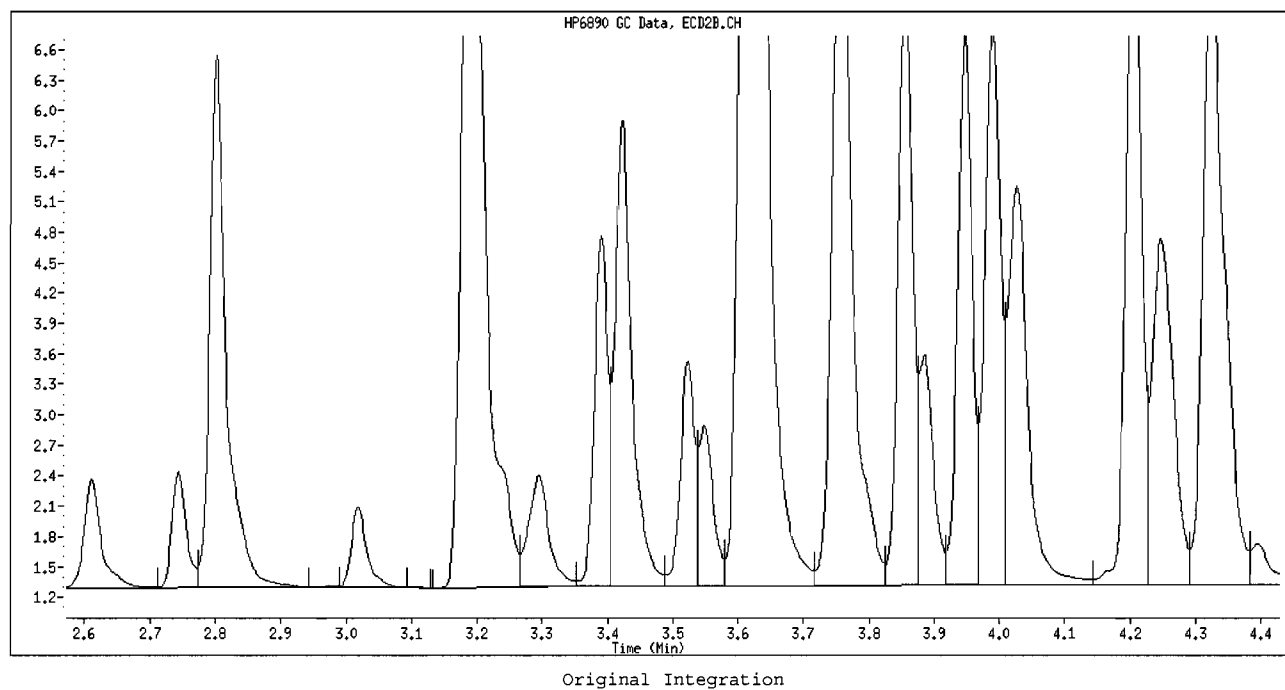
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

Client ID: RE12-10-15444

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

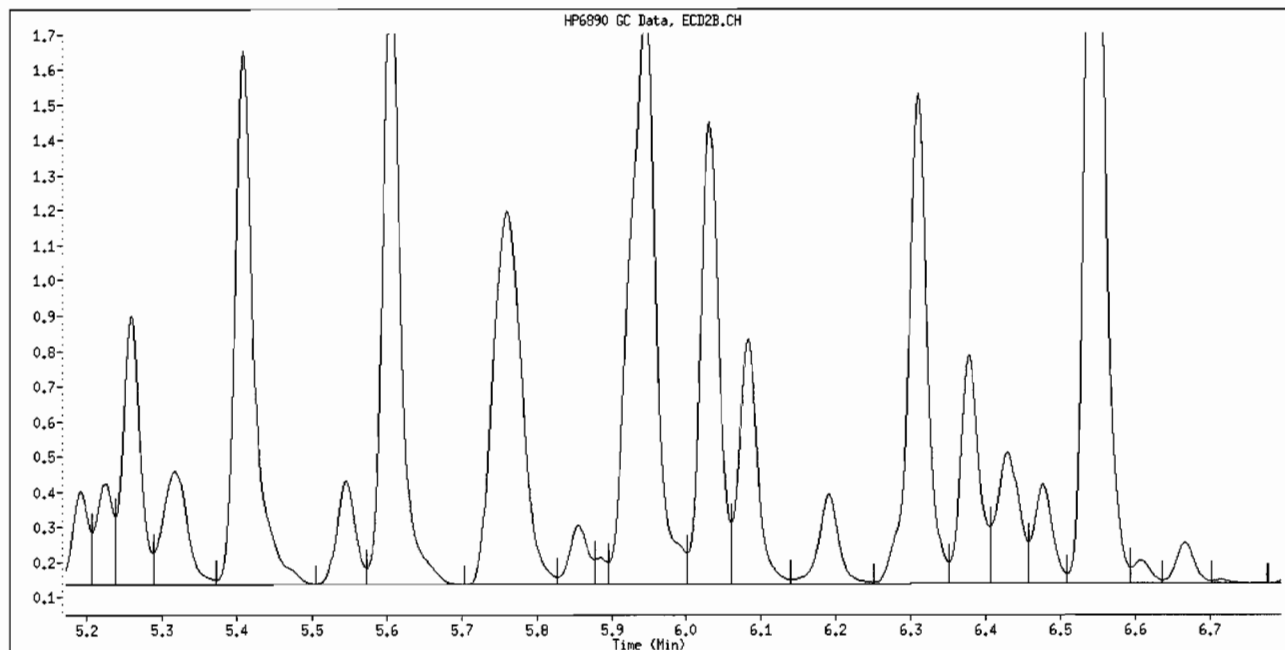
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

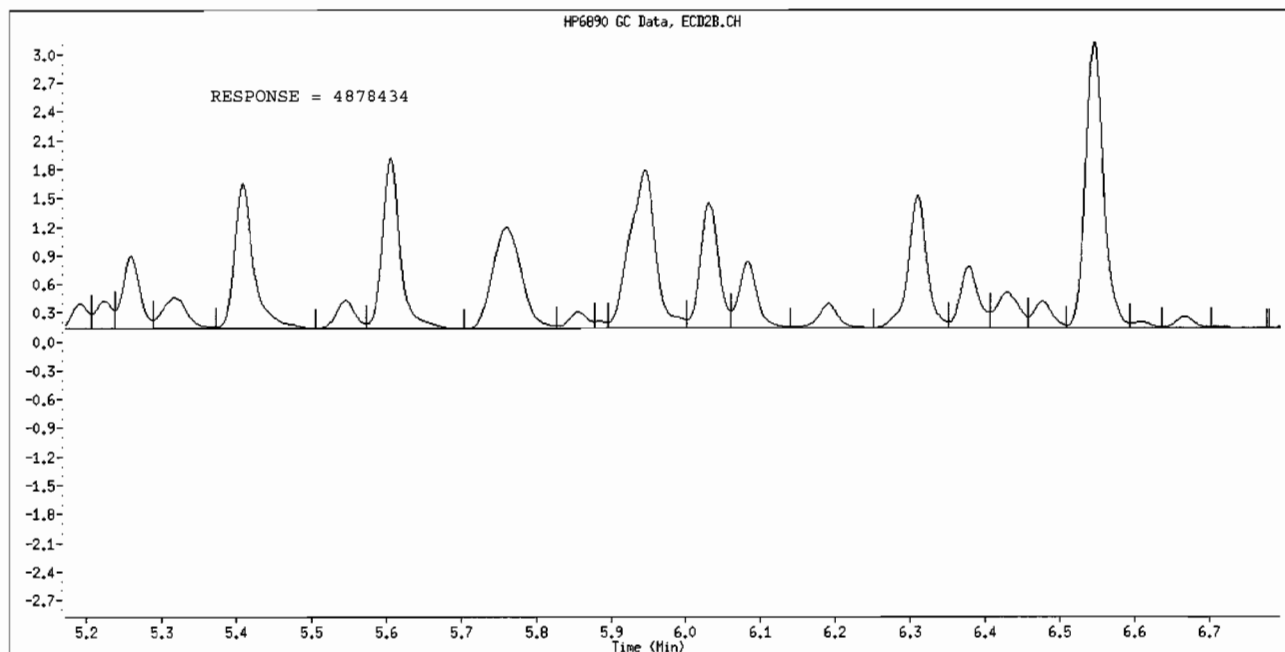
Client ID: RE12-10-15444

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event



Data File Name: VSMP636.D

TestAmerica St. Louis

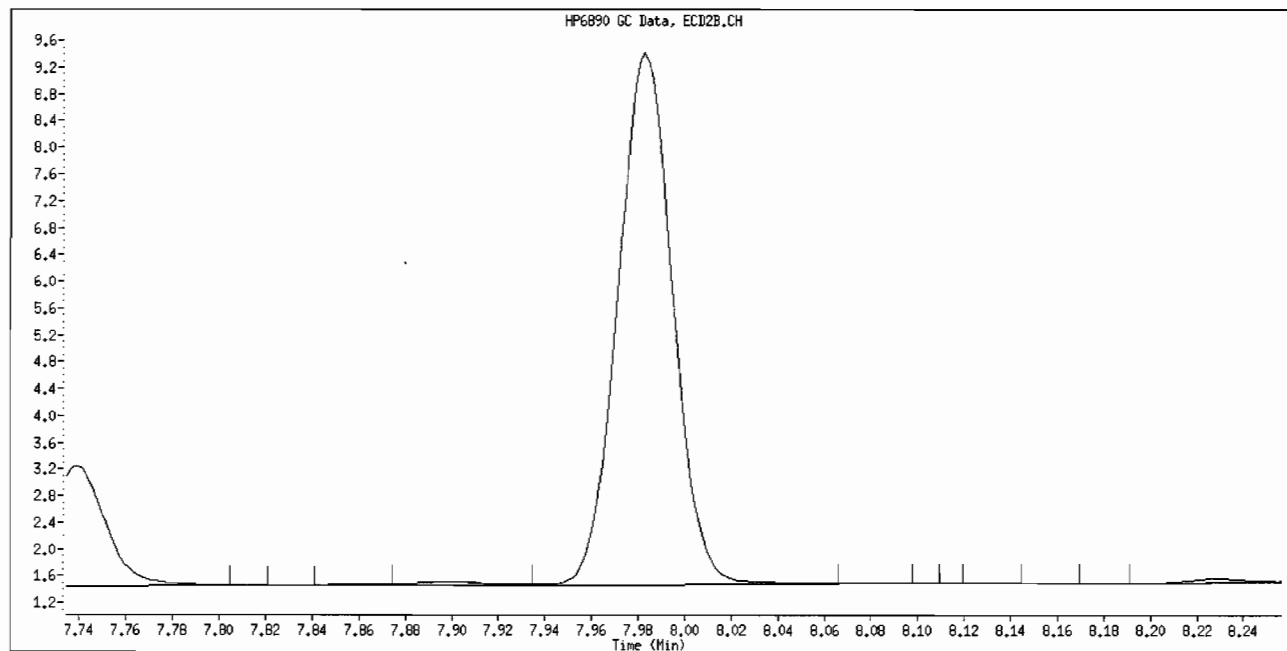
Inj. Date and Time: 15-APR-2010 08:15

Instrument ID: Gcv.i

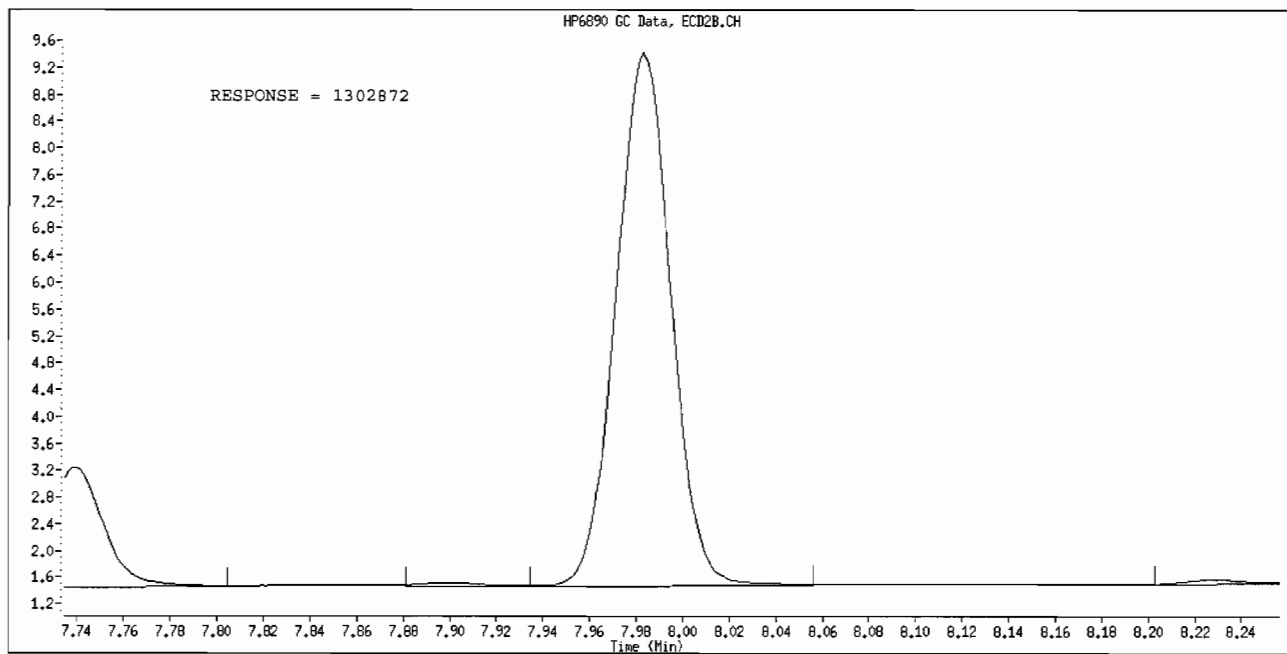
Client ID: RE12-10-15444

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP637.D

Page 1

Report Date: 15-Apr-2010 13:35

TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP637.D  
 Lab Smp Id: LXNJ91AK Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 08:34  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AK  
 Misc Info : F0D080489-001D  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\8082A.m  
 Meth Date : 15-Apr-2010 12:52 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 11 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

CONCENTRATIONS						
		ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (ng/mL)	(ug/Kg)	TARGET RANGE	RATIO
----	-----	-----	-----	-----	-----	-----
22 Aroclor-1016			CAS #: 12674-11-2			
2.215	2.220	-0.005	583342 405.509	135.2	80.00- 120.00	100.00 (M)
2.507	2.510	-0.003	1450534 461.735	153.9	163.27- 244.90	248.66
2.907	2.910	-0.003	3147749 505.692	168.6	340.93- 511.39	539.61
3.024	3.028	-0.004	1187010 475.560	158.5	138.45- 207.68	203.48
3.389	3.391	-0.002	1359236 518.835	172.9	141.11- 211.67	233.01
Average of Peak Concentrations =				157.8		
28 Aroclor-1260			CAS #: 11096-82-5			
4.507	4.511	-0.004	1845580 507.601	169.2	80.00- 120.00	100.00 (M)
4.765	4.770	-0.005	2636495 518.901	173.0	115.06- 172.58	142.85
5.022	5.028	-0.006	2356096 438.680	146.2	121.53- 182.30	127.66
5.649	5.651	-0.002	3592954 520.368	173.4	163.07- 244.60	194.68
5.909	5.913	-0.004	1898933 536.235	178.7	81.24- 121.86	102.89
Average of Peak Concentrations =				168.1		
\$ 32 Decachlorobiphenyl			CAS #:			
6.929	6.933	-0.004	1285629 26.2808	8.760		(M)

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412C.b\VSMP637.D  
Report Date: 15-Apr-2010 13:35

QC Flag Legend

M - Compound response manually integrated.

Data File: \\slsiv01\GC\_LAB\Gov.i\1100412C.b\VSHF637.D

Date: 15-08-2010 08:34

Client ID: RE12-10-15444

Sample Info: LXMJ91AK

Volume Injected (uL): 2.0

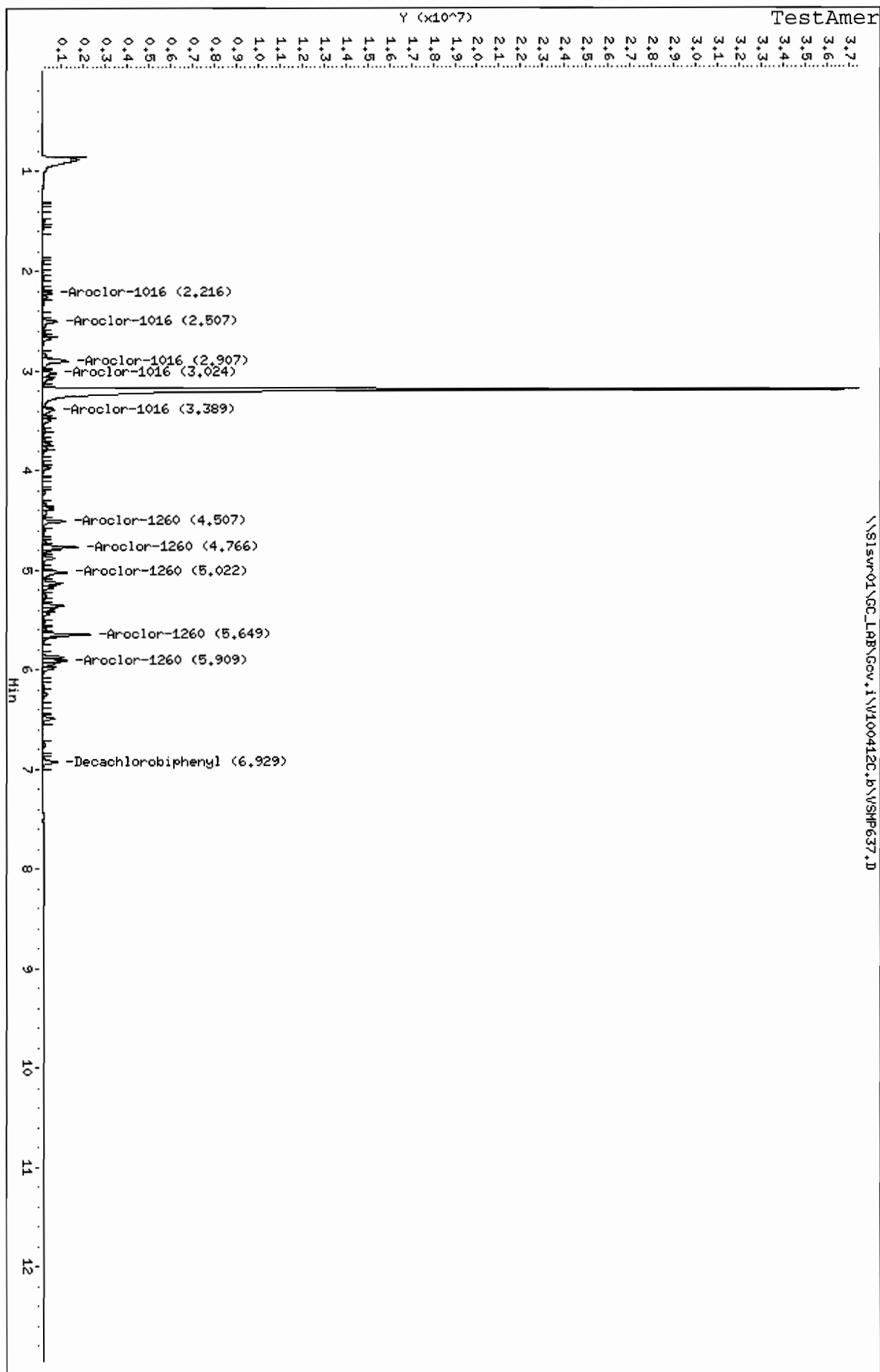
Column phase: CLPEST-1

Instrument: Gov.i

Operator: DEK

Column diameter: 0.53

Page 1



Data File Name: VSMP637.D

TestAmerica St. Louis

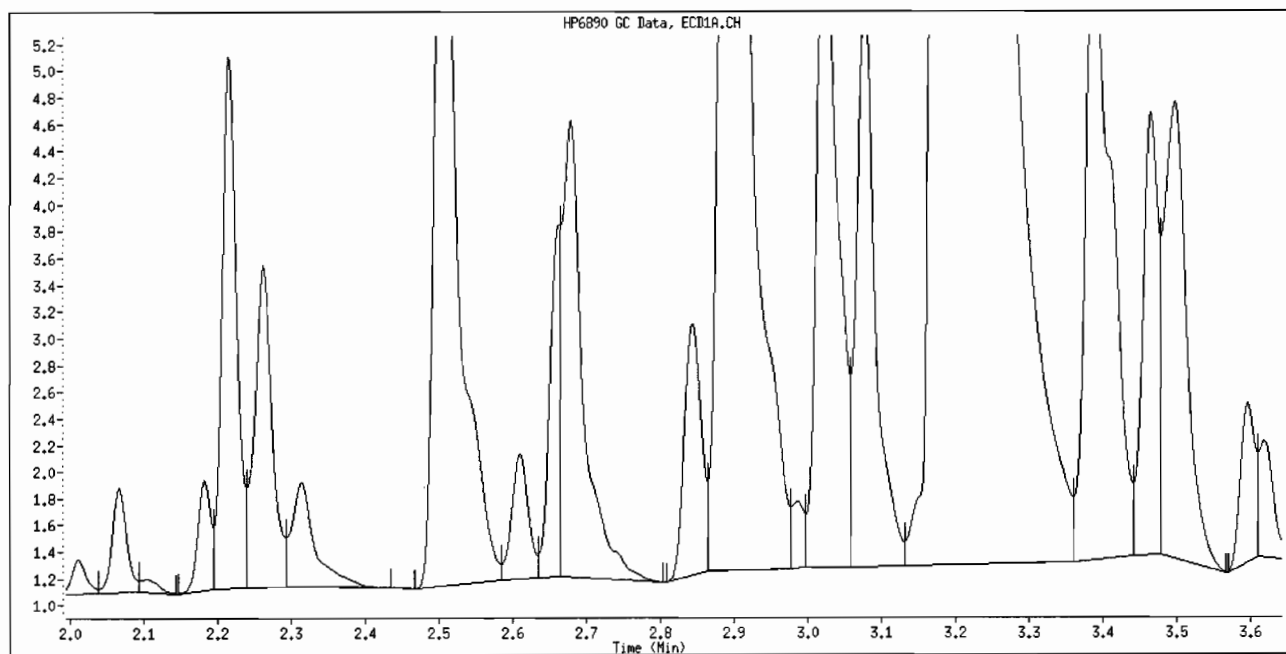
Inj. Date and Time: 15-APR-2010 08:34

Instrument ID: Gcv.i

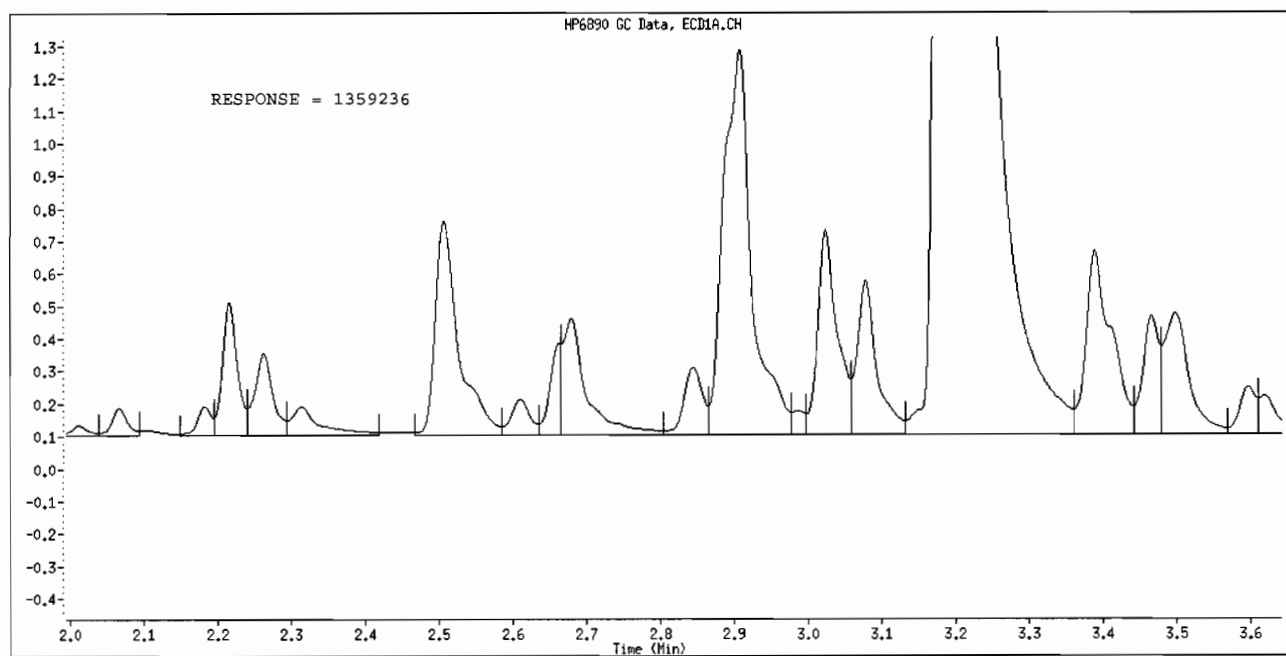
Client ID: RE12-10-15444

Compound Name: Aroclor-1016

CAS #: 12674-11-2



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP637.D

TestAmerica St. Louis

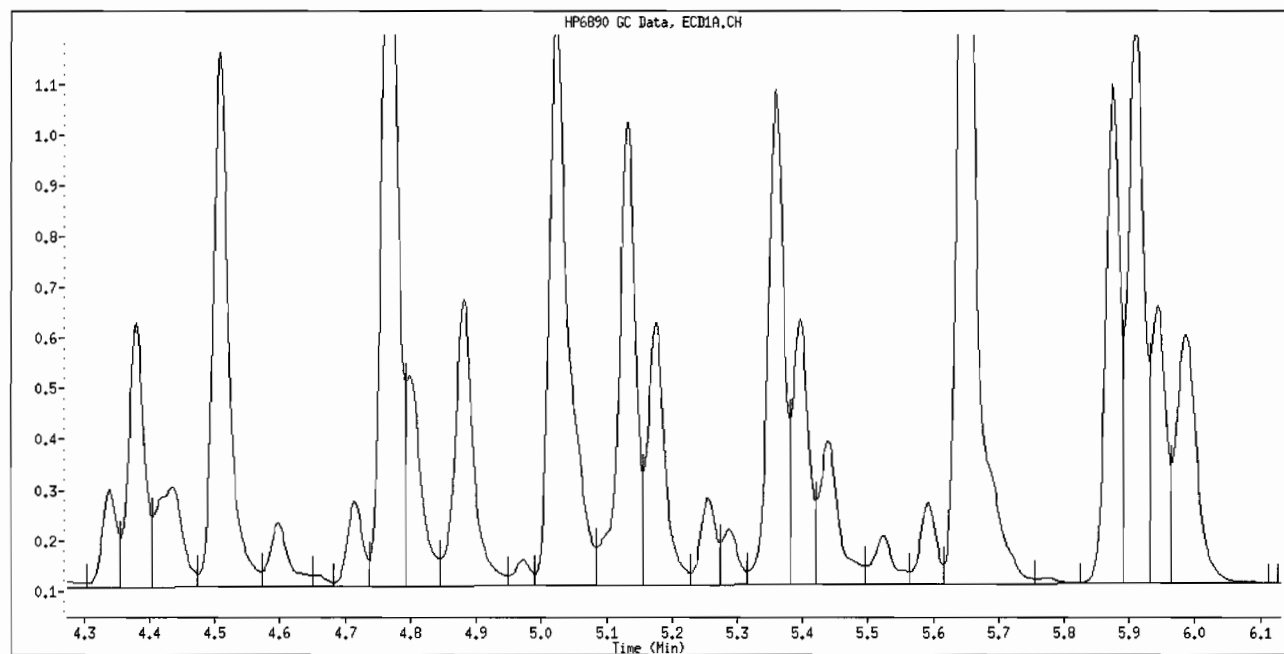
Inj. Date and Time: 15-APR-2010 08:34

Instrument ID: Gcv.i

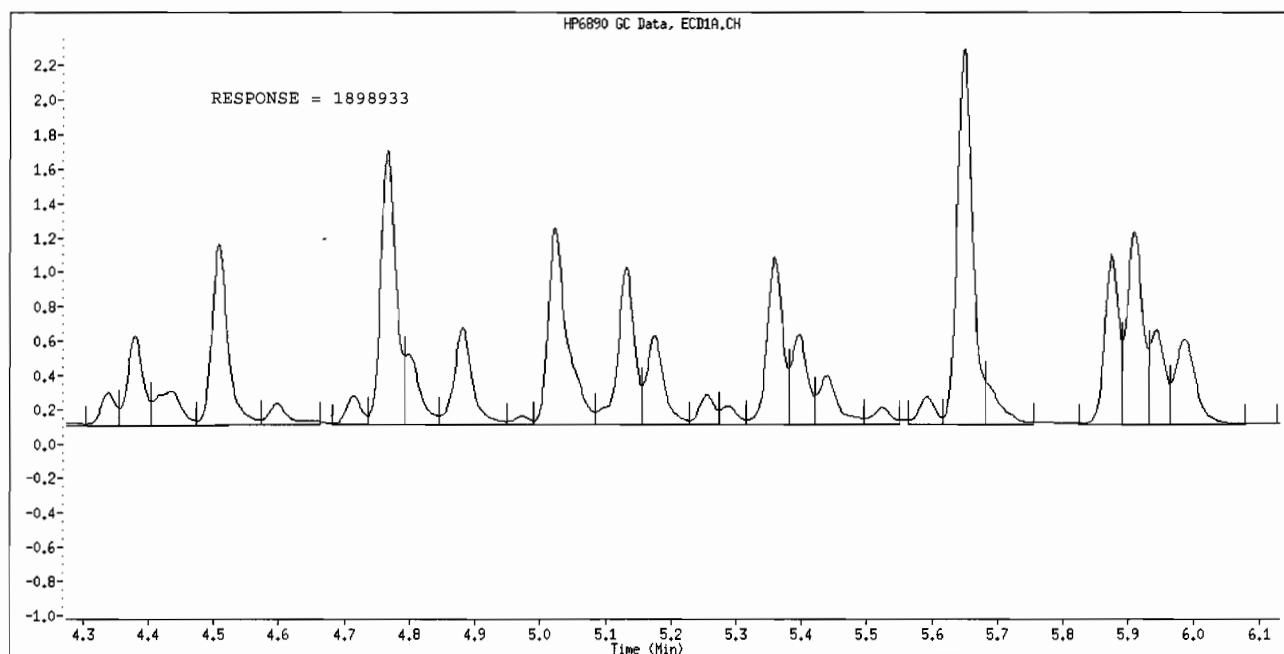
Client ID: RE12-10-15444

Compound Name: Aroclor-1260

CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File Name: VSMP637.D

TestAmerica St. Louis

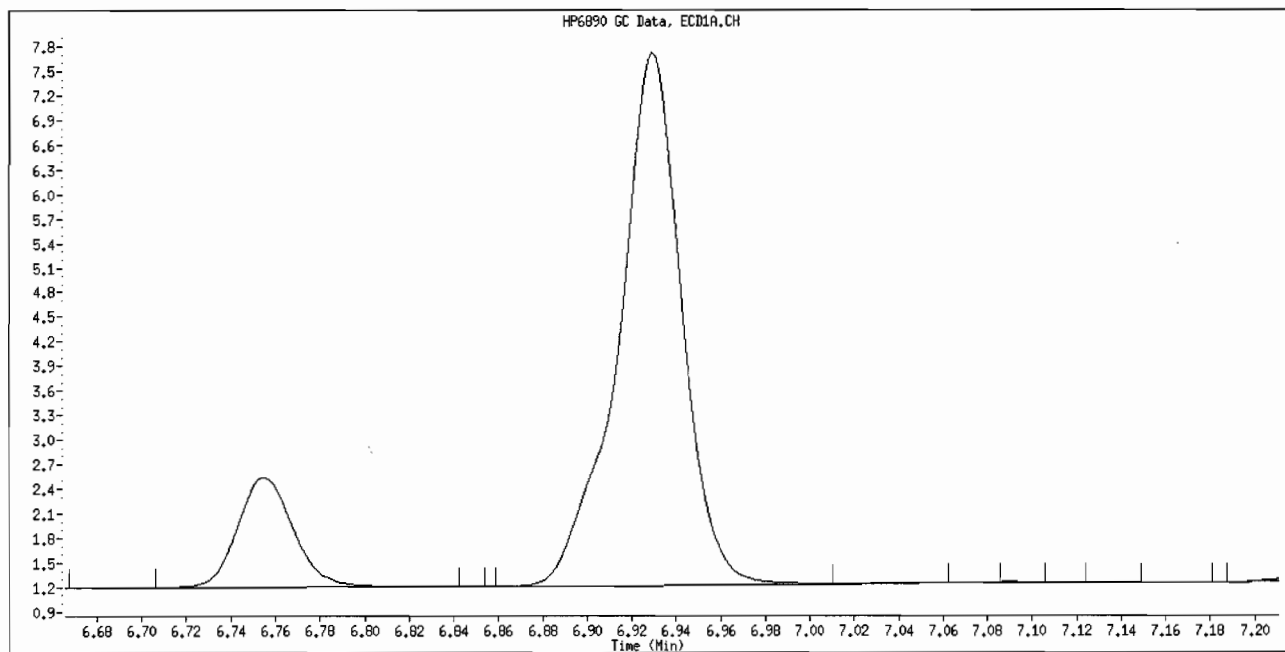
Inj. Date and Time: 15-APR-2010 08:34

Instrument ID: Gcv.i

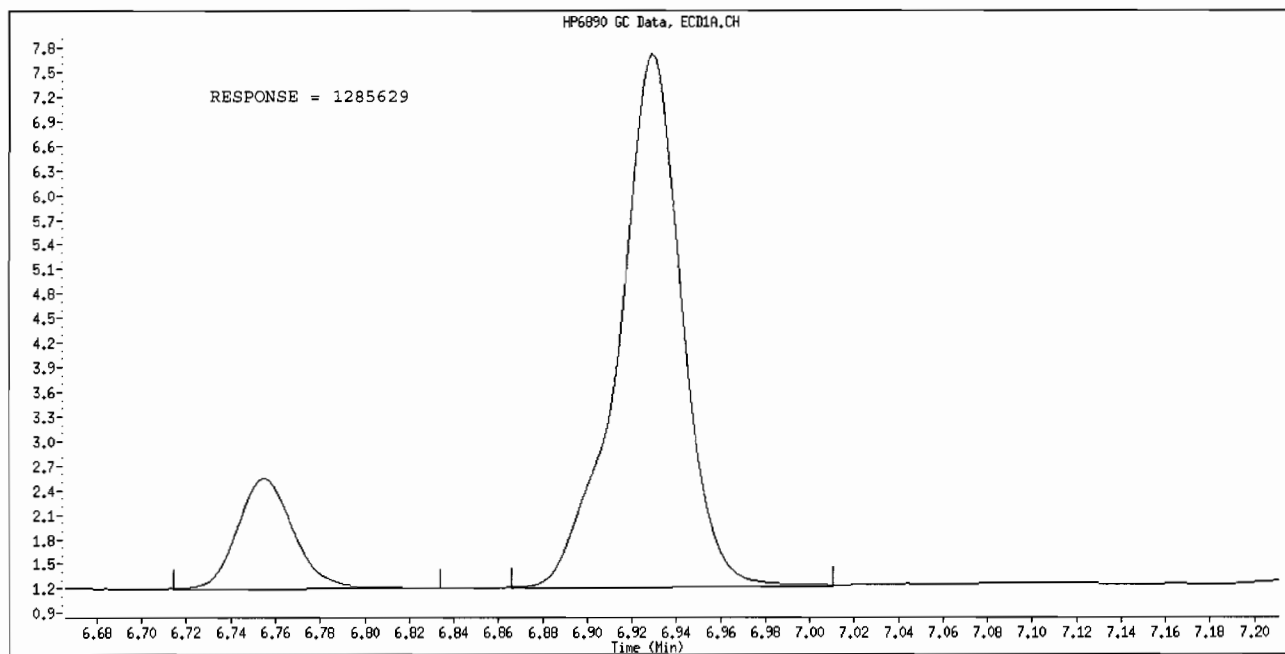
Client ID: RE12-10-15444

Compound Name: Decachlorobiphenyl

CAS #:



Original Integration



Manual Integration

Manually Integrated By: konopkad

Manual Integration Reason: Baseline Event

Data File: \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP637.D  
 Report Date: 15-Apr-2010 15:23

## TestAmerica St. Louis

Data file : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\VSMP637.D  
 Lab Smp Id: LXNJ91AK Client Smp ID: RE12-10-15444  
 Inj Date : 15-APR-2010 08:34  
 Operator : DEK Inst ID: Gcv.i  
 Smp Info : LXNJ91AK  
 Misc Info : F0D080489-001D  
 Comment :  
 Method : \\Slsvr01\GC\_LAB\Gcv.i\V100412D.b\8082B.m  
 Meth Date : 15-Apr-2010 15:02 konopkad Quant Type: ESTD  
 Cal Date : 26-MAR-2010 14:09 Cal File: VCAL913.D  
 Als bottle: 11 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: son.sub  
 Target Version: 4.14 Sample Matrix: SOIL  
 Processing Host: SLGC06

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vi} * \text{Ws}) * \text{CpndVariable}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	10.000	Volume of final extract (ml)
Vi	2.000	Injection Volume (ul)
Ws	30.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

## CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RESPONSE (ng/mL)	(ug/Kg)					
22 Aroclor-1016				CAS #: 12674-11-2		
2.802	2.805	-0.003	917845 446.942	149.0	80.00- 120.00	100.00
3.187	3.190	-0.003	1940917 469.199	156.4	38.73- 348.58	211.46
3.629	3.630	-0.001	3859906 476.490	158.8	85.41- 768.72	420.54
3.759	3.760	-0.001	1522273 457.503	152.5	34.47- 310.20	165.85
4.205	4.206	-0.001	1166788 463.817	154.6	25.58- 230.19	127.12
Average of Peak Concentrations =				154.3		

23 Aroclor-1221				CAS #: 11104-28-2		
1.950	1.954	-0.004	7471 8.45199	2.817	20.00- 180.00	100.00
2.612	2.616	-0.004	188867 161.961	53.99	26.39- 237.47	2527.70
2.802	2.806	-0.004	917845 351.680	117.2	59.05- 531.47	12283.97
Average of Peak Concentrations =				58.01		

24 Aroclor-1232				CAS #: 1114-16-5		
2.802	2.806	-0.004	917845 414.994	138.3	20.00- 180.00	100.00
3.187	3.191	-0.004	1940917 1007.25	335.7	17.43- 156.83	211.46
3.629	3.631	-0.002	3859906 1055.43	351.8	33.07- 297.64	420.54
4.567	4.571	-0.004	529863 541.049	180.3	8.86- 79.70	57.73



Data File: \\slsvr01\GC LAB\Gcv.i\V100412D.b\VSMP637.D  
Report Date: 15-Apr-2010 15:23

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL	FINAL		
RESPONSE	(ng/mL)	(ug/Kg)				
=====	=====	=====	=====	=====	=====	=====
24 Aroclor-1232 (continued)						
4.872	4.831	0.041	118219 108.580	36.19	9.85- 88.61	12.88
Average of Peak Concentrations =				208.5		
-----						
25 Aroclor-1242				CAS #: 53469-21-9		
3.187	3.191	-0.004	1940917 590.978	197.0	20.00- 180.00	100.00
3.424	3.426	-0.002	790184 568.429	189.5	8.47- 76.19	40.71
3.629	3.631	-0.002	3859906 586.395	195.5	40.08- 360.76	198.87
4.609	4.615	-0.006	743883 324.131	108.0	13.98- 125.78	38.33
4.872	4.831	0.041	118219 53.0117	17.67	13.58- 122.22	6.09
Average of Peak Concentrations =				141.5		
-----						
26 Aroclor-1248				CAS #: 12672-29-6		
3.947	3.949	-0.002	768931 302.909	101.0	20.00- 180.00	100.00
4.205	4.207	-0.002	1166788 364.123	121.4	25.25- 227.22	151.74
4.324	4.326	-0.002	1443989 415.429	138.5	27.39- 246.47	187.79
4.609	4.612	-0.003	743883 191.471	63.82	30.61- 275.49	96.74
4.872	4.831	0.041	118219 33.1229	11.04	28.12- 253.08	15.37
Average of Peak Concentrations =				87.14		
-----						
27 Aroclor-1254				CAS #: 11097-69-1		
4.609	4.611	-0.002	743883 198.138	66.05	20.00- 180.00	100.00
4.750	4.791	-0.041	36553070 9062.87	3021	21.49- 193.37	4913.82
5.227	5.229	-0.002	390088 62.9759	20.99	33.00- 296.98	52.44
5.760	5.772	-0.012	2812945 632.872	211.0	23.68- 213.10	378.14
5.945	5.951	-0.006	3864180 724.339	241.4	28.42- 255.77	519.46
Average of Peak Concentrations =				712.1		
-----						
28 Aroclor-1260				CAS #: 11096-82-5		
5.410	5.411	-0.001	2600034 552.307	184.1	80.00- 120.00	100.00
5.607	5.608	-0.001	2905056 568.529	189.5	22.36- 201.21	111.73
5.945	5.946	-0.001	3864180 599.646	199.9	29.20- 262.77	148.62
6.310	6.311	-0.001	2382473 568.193	189.4	18.44- 165.96	91.63
6.545	6.546	-0.001	4643487 587.994	196.0	36.52- 328.70	178.59
Average of Peak Concentrations =				191.8		
-----						
35 Aroclor-1262				CAS #: 37324-23-5		
5.410	5.413	-0.003	2600034 728.036	242.7	20.00- 180.00	100.00
5.607	5.609	-0.002	2905056 802.337	267.4	20.28- 182.49	111.73
6.032	6.034	-0.002	2094699 410.715	136.9	28.56- 257.06	80.56
6.545	6.548	-0.003	4643487 567.631	189.2	45.81- 412.31	178.59
6.889	6.889	0.000	3177602 525.609	175.2	33.86- 304.71	122.21
Average of Peak Concentrations =				202.3		
-----						
36 Aroclor-1268				CAS #: 11100-14-4		
6.889	6.885	0.004	3177602 294.507	98.17	20.00- 180.00	100.00
6.932	6.930	0.002	1215189 111.985	37.33	20.11- 181.03	38.24
7.167	7.170	-0.003	53328 7.36813	2.456	13.42- 120.74	1.68
7.432	7.433	-0.001	1132813 354.045	118.0	5.93- 53.38	35.65
7.740	7.742	-0.002	270894 14.7584	4.919	34.02- 306.22	8.53
Average of Peak Concentrations =				52.18		
-----						
\$ 32 Decachlorobiphenyl				CAS #:		
7.984	7.986	0.002	1256022 26.0927	8.698		

Data File: \\slsvr01\GC\_LAB\Gov.i\1100412D.b\MSHPE637.D

Page 1

Date: 15-APR-2010 08:34

Client ID: RE12-10-15444

Sample Info: LXMJ91AK

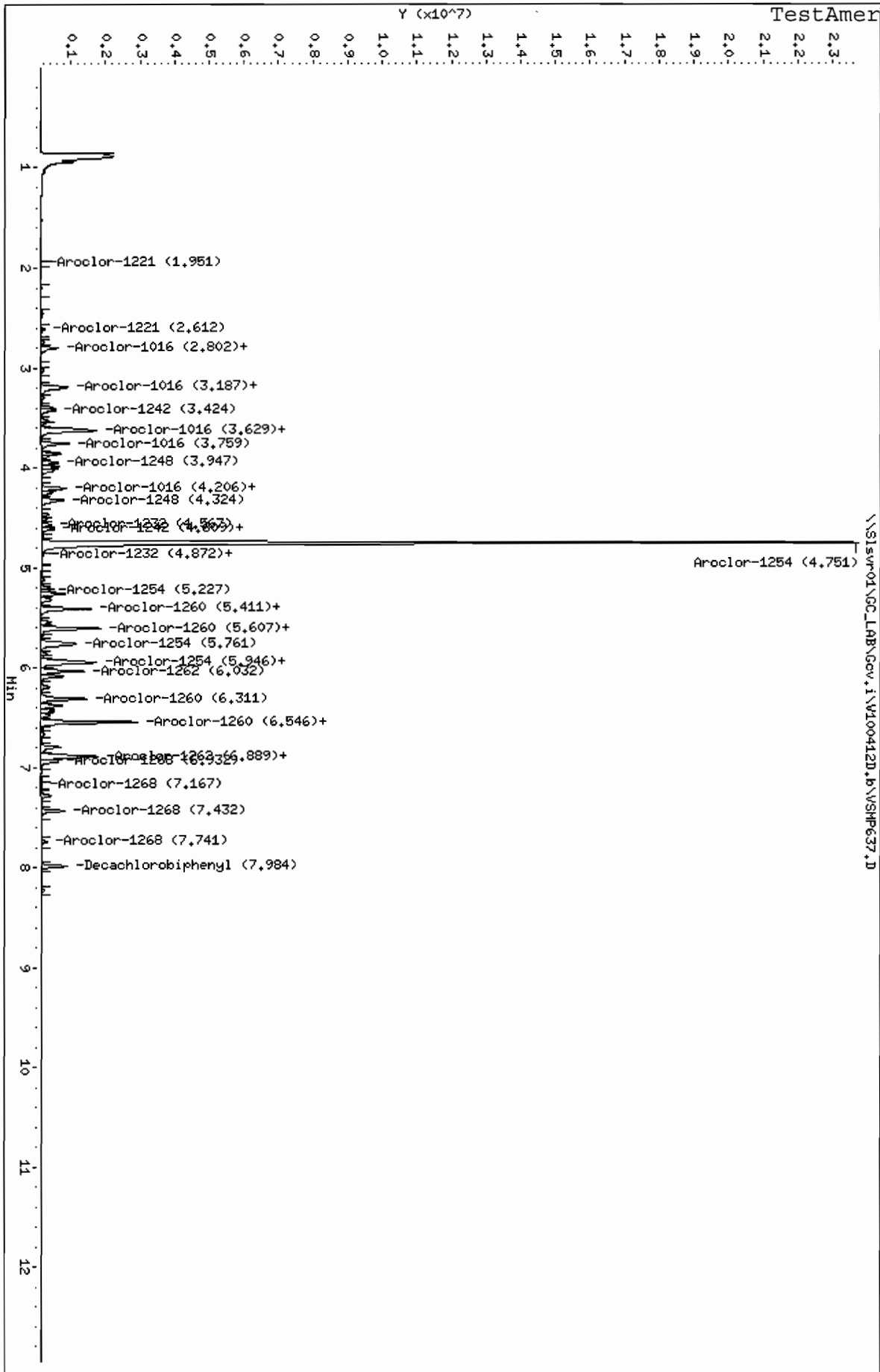
Volume Injected (uL): 2.0

Column phase: CLPEST-2

Instrument: Gov.i

Operator: DEK

Column diameter: 0.53



## **GC MISCELLANEOUS DATA**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Organic Prep Report for Batch # 0100042

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

CleanupMethod: MOD 3665  
Method No: SW846 3665A

SOP Number: ST-OP-0002

Matrix: SOLID

Extraction Date: 4/10/2010

Prep Method: SW-846 3550B, w/ACID STRIP

Prep Description: SONICATION w/ACID STRIP (PCB)

Lot Number	WorkOrder No	AnalID/Date	Wt/Vol	pH.1	pH.2	Extr Unit	Initials: MPY	Initials: MS/ND	Concentration 1	Volume	Date 4/12	Method	Initials: MS	Cleanup 1	Date 4/12	Method	Initials: Cleanup 2	Cleanup 2	Date
F0D070439 - 002	LXLR41A9	04/16/2010	30 g							10 mL		MOD 3665							
F0D070439 - 002D	LXLR41E7	04/16/2010	30 g							10 mL		MOD 3665							
F0D070439 - 002S	LXLR41E6	04/16/2010	30 g							10 mL		MOD 3665							
F0D080489 - 003	LXNKE1AF	04/16/2010	30 g							10 mL		MOD 3665							
F0D080489 - 004	LXNKG1AF	04/16/2010	30 g							10 mL		MOD 3665							
F0D100000 - 042B	LXRW51AA		30 g							10 mL		MOD 3665							
F0D100000 - 042C	LXRW51AC		30 g							10 mL		MOD 3665							

### Spike Information

Name	Standard ID	Exp Date	Vol Added
PCB Spike	OP0235-10	9/22/2010	500 uL
PCB Surrogate	OP0249-10	9/23/2010	500 uL

Spiking verified by: *SBH*

### Miscellaneous Information

Start:   
 Extr 1:   
 Extr 2:   
 Conc Method: steam bath   
 Conc Temp C: 95

### Chemical Lot Information

Chemical: Acetone/Methylene Hexane Methylene Chloride Sodium Sulfate Sulfuric Acid   
 Lot Number: J06E35 J04E13 J08J02 H35594 H35F03

Comments:

### Custody Information

Relinquished By: ND

Review/Received By: *SBH*

Date of Transfer: 4/12/10

1134

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate  
PrepSheet Generator 1.26, updated 11/14/2008

1145

LOT

**Organic Prep Report for Batch # 0102197**

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

CleanupMethod: Method No:  
MOD 3665 SW846 3665A

SOP Number: ST-OP-0002

Matrix: SOLID

Prep Method: SW-846 3550B, w/ACID STRIP

Prep Description: SONICATION w/ACID STRIP (PCB)

Extraction Date: 4/12/2010

Lot Number	WorkOrder No	AnalDueDate	Wt/Vol	Initials: MPY		Initials: MYS		Initials:	
				pH 1	pH 2	Extr Unit	Volume	Concentration I	Cleanup 1
F0D080489 - 001	LXNJ91AF	04/16/2010	30 g				10 mL	4/12	MOD 3665
F0D080489 - 001D	LXNJ91AK	04/16/2010	30 g				10 mL	4/12	MOD 3665
F0D080489 - 001S	LXNJ91AJ	04/16/2010	30 g				10 mL	4/12	MOD 3665
F0D080489 - 002	LXNKC1AF	04/16/2010	30 g				10 mL	4/12	MOD 3665
F0D120000 - 197B	LXT9Q1AA		30 g				10 mL	4/12	MOD 3665
F0D120000 - 197C	LXT9Q1AC		30 g				10 mL	4/12	MOD 3665

**Spike Information**

Name	Standard ID	Exp Date	Vol Added
PCB Spike	OP0235-10	9/22/2010	500 uL
PCB Surrogate	OP0249-10	9/23/2010	500 uL

Spiking verified by: JDA

**Miscellaneous Information**

Start:   
Extr 1:   
Extr 2:   
Conc Method: steam bath   
Conc Temp C: 95

**Chemical Lot Information**

Chemical	Lot Number
Acetone/Methylene	J06E35
Hexane	J04E13
Methylene Chloride	J08J02
Sodium Sulfate	H35594
Sulfuric Acid	H35F03

**Custody Information**

Relinquished By: ND

Review/Received By: DK

Date of Transfer: 4/12/10

Comments:

1135

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, S=matrix spike, D=matrix spike duplicate  
PrepSheet Generator 1.26, updated 11/14/2008

1145

Logbook No. 3331

Date: 3/26/10

Instrument ID# GCV

# TestAmerica GC Runlog

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
V000 897	V00536 V00537m	Cond STD	S082			GC0378-01		DEK		
VHEX 898		Hexane								
V001 899		10K1-1				GC0378-01	50X			10K1 sad
910		10K1-2					40X			
901		10K1-3					20X			
912		10K1-4					8X			
903		10K1-5					4X			
904		10K1-6					2.5X			
905		10K1-7					1.6X			
906		10K1-8								
VICU 907		10K1				GC0010-10	4X			10K1 sad
V002 908		1237				GC0011-10	8X			Individual Analysis @ 500ppb
909		1242				GC0012-10	8X			
910		1248				GC0013-10	8X			
911		1221/1224				GC0014-10	8X			
912		1262				GC0015-10	8X			
913		1268				GC0016-10	8X			
VEMP 914		UNQ112AC		F00230412-001	Solid		20X			1251/1248-28K AB, D05-diluted not AB
VBLK 915		UN36081AA		F0025000-133B	Liquid					10K1 hts
V003 916		UN36081AC		-133C						10K1 sad
V004 917		UN36081AC		F00230538-001						10K1 hts
918		UN36081AC		-015						MS sad
919		UN36081AC		-015D						MSD sad
V005 920		UN40081AA		F0024000-345B						10K1 hts
V006 921		UN40081AA		-345C						10K1 sad

TestAmerica St. Louis

Reviewed By: *[Signature]* 7-28-10  
 QC Types: BLK or B = Blank; LCS or C = Laboratory Control Sample Duplicate; S = Matrix Spike;  
 D = Matrix Spike Duplicate; SMP = Sample, Matrix Spike or Matrix Spike Duplicate, CAL = Calibration Standard or Continuing Calibration Standard.  
 SOP References: ST-GC-0017 Rev. 9 03/16/09.

Form: SL-ORG-0008, Rev. 12/31/07

Instrument ID# GCP

# TestAmerica GC Runlog

Logbook No. 3442

Date: 4/16/10

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
PRUD 303	PIA04116	Cond STD	8882			G003809		DEK		
PHEX 304		Hexene								
PCN 305		10K-1				G003809	80X			10K grad
306		10K-2					40X			
307		10K-3					20X			
308		10K-4					8X			
309		10K-5					4X			
310		10K-6					275X			
311		10K-7					1.6X			
312		10K-8								
PCV 313		10K				G003809-10	4X			10K grad
PCN 314		1232				G003809-10	8X			Individual fractions @ 200ppb
315		1242				G003809-10	8X			
316		1248				G003809-10	8X			
317		1221/1231				G003809-10	8X			
318		1262				G003809-10	8X			
319		1268				G003809-10	8X			
PRUC 320		LXTAPIAA		F002000-194B	Solid				G002104	ku hits
PLCS 321		LXTAPIAC		-194C						1NS grad
PSMP 322		LXMSIAR <sup>2</sup> <sub>2000 4000</sub>		F002000-194B						ku hits
323		LXMSIAR-DE		-WIS						MS grad
324		LXMSIADF		-WID						MS grad
PRUC 325		LXTAPIAA		F002000-198B					G002188	ku hits
PLCS 326		LXTAPIAC		-198C						1NS grad
PSMP 327		LXJ7IAP		F002000-194B						ku hits

Reviewed By:  4/16/10  
 Form: SL-ORG-0008, Rev. 12/31/07  
 QC Types: BLK or B = Blank; LCS or C = Laboratory Control Sample; LCSD or L = Laboratory Control Sample Duplicate; S = Matrix Spike;  
 D = Matrix Spike Duplicate; SMP = Sample, Matrix Spike or Matrix Spike Duplicate, CAL = Calibration Standard or Continuing Calibration Standard.  
 SOP References: ST-GC-0017 Rev. 9 03/16/09.

Instrument ID# GCP

# TestAmerica GC Runlog

Logbook No. 3442

Date: 4/14/10 4:18:10

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
PSMP 318	4/14/10 4:18:10	LXLT7IER	588Z	F00270445-002	solid	Z		DEK	6162158	MS good A
1 329		LXLT7IET		1 -00D	1				1	MSD good A
QPK 330		QPK				GC37829	4X			CK
PRK 331		LXPRWSIAA		F00270445-002	solid				6162158	MS good A,B
PLS 332		LXPRWSIAC		1 -00D						MS good A,B
PSMP 333		LXLP4IA9		F00270445-002						MS good A,B
341		LXLP4IE6		1 -00D						MS good A,B
345		LXLP4IE7		1 -00D						MS good A,B
346		LXLP4IEF		F00270445-002						MS good A,B
347		LXLP4IEG		1 -00D						MS good A,B
PRK 338		LXLP4IEA		F00270445-002						MS good A,B
PLS 339		LXLP4IEB		1 -00D						MS good A,B
PSMP 340		LXLP4IEC		F00270445-002						MS good A,B
PRK 341		LXLP4IED		1 -00D						MS good A,B
PSMP 342		LXLP4IEE		F00270445-002						MS good A,B
343		LXLP4IEF		1 -00D						MS good A,B
344		LXLP4IEG		F00270445-002						MS good A,B
345		LXLP4IEH		1 -00D						MS good A,B
346		LXLP4IEI		F00270445-002						MS good A,B
347		LXLP4IEJ		1 -00D						MS good A,B
348		LXLP4IEK		F00270445-002						MS good A,B
349		LXLP4IEL		1 -00D						MS good A,B
350		LXLP4IEM		F00270445-002						MS good A,B
351		LXLP4IEN		1 -00D						MS good A,B
PRK 352		LXLP4IEO		F00270445-002						MS good A,B

*Handwritten signature*

Reviewed By: *Handwritten signature* 4/14/10  
 QC Types: BLK or B = Blank; LCS or C = Laboratory Control Sample Duplicate; S = Matrix Spike;  
 D = Matrix Spike Duplicate; SMP = Sample, Matrix Spike or Matrix Spike Duplicate, CAL = Calibration Standard or Continuing Calibration Standard.  
 SNR References: ST-GC-0017 Rev. 9 03/16/09.



Instrument ID# GCP

# TestAmerica GC Runlog

Logbook No. 3442

Date: 4/17/10

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
P5MP 353	P100416	LW76FIAT	8087	FOC276411-603	solid	7		DAK	609858	No hits, DGB↑
354		LW76GIAT		1 - 604						No hits
355		LXAM1IAG		FOC340528-602						1248, DGB↑
356		LXAMB1AT		-603						No hits, DGB↑
357		LXANE1AT		-604						No hits, DGB↑
358		LXANK1AT		-605						No hits
359		LXANN1AT		-606						No hits
360		LXCRK1AT		FOC340936-602						No hits, DGB↑
361		LXCRF1AT		-603						No hits
362		LXCRV1AT		-604						No hits
PCR 363		CDKL					4x		Z	OK
PCR 364		Surrogate Check								OK

Form: SL-ORG-0008, Rev. 12/31/07

Reviewed By: [Signature] 4/19/07  
Form: SL-ORG-0008, Rev. 12/31/07

Instrument ID# GCV

# TestAmerica GC Runlog

Logbook No. 3331

Date: 4/14/10 4:41:51D

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
VBK 602	11/16/12	LW20T1AA	S082	FOC03000-0155	solid	7		DEK	0100059	peran
VCS 603		LW20T1AC		1-0155						
VSP 604		LW20W1CK		FOC200051-002						
605		LW2091CK		-003						
606		LW2091CV		-0035						
607		LW2091CP		-003D						
608		LW21A1CK		-01						
609		LW21E1CK		-05						
610		LW21F1CK		-06						
VCK 611		COX				010318-01	4X			OK
VBLK 612		LX R201AA		FOC01000-0155	solid	7			0100059	Amibits
VCS 613		LX R201AC		1-0155						LCS good
VSP 614		LX HTD1AD		FOC030496-017						No hits
615		LX HTD1AE		-0135						MS good
616		LX HTD1AF		-0170						MSD good
617		LX HTE1AD		-018						No hits
618		LX HTE1AD		-019						A
619		LX HTG1AD		FOC030497-011						1248
620		LX HTH1AD		-02						1248
621		LX HTS1AD		-03						1248
VCK 622		COX				010318-01	4X			1248
VSP 623		LX HTK1AD		FOC030497-011	solid	7				CHW AOK, DCB, P, B
624		LX HTL1AD		-05					0100059	1248
625		LX HTM1AD		-06						1248
626		LX HTN1AD		-07						No hits
										1248

Reviewed By: W. J. J. J. 4/19/10  
 QC Types: BLK or B = Blank; LCS or C = Laboratory Control Sample; LCSD or L = Laboratory Control Sample Duplicate; S = Matrix Spike;  
 D = Matrix Spike Duplicate; SMP = Sample, Matrix Spike or Matrix Spike Duplicate, CAL = Calibration Standard or Continuing Calibration Standard.  
 SOP References: ST-GC-0017 Rev. 9 03/16/09.

Form: SL-ORG-0008, Rev. 12/31/07

Logbook No. 3331

Date: 4/15/10

Instrument ID# GCV

# TestAmerica GC Runlog

Data File	Clock	Lab ID	Method	Lot Number	Matrix	STD #	Dil. Fact.	Oper	Batch	Comments
VSMR 627	10:01:20	LXHTPIAD	S0782	F0D080447-08	solid				DEK 6/16/09	1248 A.B
628		LXHTPIAD		-009						1248 A.B
629		LXHTPIAD		-010						1248 A.B
630		LXHTPIAD		-011						1248 A.B
631		LXNT9IAG		F0D080517-01						1248 A.B
VBLX 632		LXNT9IAG		F0D120000-197B						1248 A.B
VOKL 633		COX2								1248 A.B
VCS 634		LXNT9IAG		F0D120000-197B	solid					1248 A.B
VSMR 635		LXNT9IAG		F0D080447-01						1248 A.B
636		LXNT9IAG		-015						1248 A.B
637		LXNT9IAG		-010						1248 A.B
638		LXNT9IAG		-012						1248 A.B
VBLX 639		LXNT9IAG		F0D010000-008B	Liquid					1248 A.B
VCS 640		LXNT9IAG		-018C						1248 A.B
VSMR 641		LXNT9IAG		F0D00551-001						1248 A.B
642		LXNT9IAG		-012						1248 A.B
643		LXNT9IAG		-025						1248 A.B
VOKL 644		COX2								1248 A.B
VSMR 645		LXNT9IAG		F0D00551-002D	Liquid					1248 A.B
646		LXNT9IAG		-003						1248 A.B
647		LXNT9IAG		-014						1248 A.B
VOKL 648		COX2								1248 A.B

Reviewed By: WJH 4/19/10

Form: SL-ORG-0008, Rev. 12/31/07  
 QC Types: BLK or B = Blank; LCS or C = Laboratory Control Sample; LCSD or L = Laboratory Control Sample Duplicate; S = Matrix Spike;  
 D = Matrix Spike Duplicate; SMP = Sample, Matrix Spike or Matrix Spike Duplicate, CAL = Calibration Standard or Continuing Calibration Standard.  
 SOP References: ST-GC-0017 Rev. 9 03/16/09.

## **WET CHEMISTRY**

(ALPHABETICALLY BY ANALYSIS)

RQC050

TestAmerica Laboratories, Inc.  
WET CHEM BATCHSHEET

Run Date: 4/14/10  
Time: 8:55:10

TestAmerica St. Louis

## PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: WM Moisture, Percent (160.3)

QC BATCH #: 0102368

INITIALS:

DATA ENTRY:

PREP DATE: 4/13/10

PREP JS

INITIALS JS

COMP DATE: 4/14/10

ANAL JS

DATE 04/14/10

USER: SWANJ

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LXNJ9-1-AC	F-0D080489-001	XX A 88 WM 01	Y-D		RE12-10-15444
LXNJ9-1-AL	F-0D080489-001-X	XX A 88 WM 01	Y-D		RE12-10-15444 DUP
LXNKC-1-AC	F-0D080489-002	XX A 88 WM 01	Y-D		RE12-10-15443
LXNKE-1-AC	F-0D080489-003	XX A 88 WM 01	Y-D		RE12-10-15442
LXNKG-1-AC	F-0D080489-004	XX A 88 WM 01	Y-D		RE12-10-15448
LXNKH-1-AC	F-0D080489-005	XX A 88 WM 01	Y-D		RE12-10-15446
LXNKJ-1-AC	F-0D080489-006	XX A 88 WM 01	Y-D		RE12-10-15445
LXNKL-1-AC	F-0D080489-007	XX A 88 WM 01	Y-D		RE12-10-15447
LXNKX-1-AC	F-0D080495-001	XX A 88 WM 01	Y-D		RE12-10-15444
LXNK6-1-AL	F-0D080495-002	XX A 88 WM 01	Y-D		RE12-10-15443
LXNK8-1-AL	F-0D080495-003	XX A 88 WM 01	Y-D		RE12-10-15442
LXNLC-1-AL	F-0D080495-004	XX A 88 WM 01	Y-D		RE12-10-15448
LXNLE-1-AL	F-0D080495-005	XX A 88 WM 01	Y-D		RE12-10-15446
LXNLH-1-AL	F-0D080495-006	XX A 88 WM 01	Y-D		RE12-10-15445
LXNLK-1-AL	F-0D080495-007	XX A 88 WM 01	Y-D		RE12-10-15447

Control Limits

PDE115

TestAmerica Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 0102368

Date 4/14/2010  
Time 9:55:06

Method Code: WM Moisture, Percent (160.3)  
Analyst: Jennifer Swan

Work Order	Result	Units	IDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output IDL	Dil.
LXNJ9-1-AC	17.07	%	0.1	04/13-04/14/10	17.63	N		17.1	0.10	1.00
LXNJ9-1-AL	17.63	%	0.1	04/13-04/14/10	17.63	N		17.6	0.10	1.00
LXNKC-1-AC	15.53	%	0.1	04/13-04/14/10	15.53	N		15.5	0.10	1.00
LXNKE-1-AC	14.36	%	0.1	04/13-04/14/10	14.36	N		14.4	0.10	1.00
LXNKG-1-AC	14.85	%	0.1	04/13-04/14/10	14.85	N		14.8	0.10	1.00
LXNKH-1-AC	6.15	%	0.1	04/13-04/14/10	6.15	N		6.2	0.10	1.00
LXNKJ-1-AC	13.98	%	0.1	04/13-04/14/10	13.98	N		14.0	0.10	1.00
LXNKL-1-AC	3.31	%	0.1	04/13-04/14/10	3.31	N		3.3	0.10	1.00
LXNKX-1-AC	17.07	%	0.1	04/13-04/14/10	17.07	N		17.1	0.10	1.00
LXNK6-1-AL	15.53	%	0.1	04/13-04/14/10	15.53	N		15.5	0.10	1.00
LXNK8-1-AL	14.36	%	0.1	04/13-04/14/10	14.36	N		14.4	0.10	1.00
LXNLC-1-AL	14.85	%	0.1	04/13-04/14/10	14.85	N		14.8	0.10	1.00
LXNLE-1-AL	6.15	%	0.1	04/13-04/14/10	6.15	N		6.2	0.10	1.00
LXNLH-1-AL	13.98	%	0.1	04/13-04/14/10	13.98	N		14.0	0.10	1.00
LXNLK-1-AL	3.31	%	0.1	04/13-04/14/10	3.31	N		3.3	0.10	1.00

Notes:

JS 04/14/10

TEST TOTAL # SAMPLE # PRODUCTION TOTALS MATRIX # OTHER # MISC # HOURS

0 0 0 0 0 0

0.0

sheet1

**TestAmerica St. Louis Laboratory**  
**Percent Total Solid/Percent Moisture Logsheet**

Analysis: %Moisture Time In: 7:10 Temp: 103.0 Batch: 102368

Prep Date: 04/13/10 Time Out: 6:00 Temp: 103°C Analyst: SDB / JS

Anal Date: 04/14/10 \* if less than 12 hours, complete Reviewed By: \_\_\_\_\_

page 2 of this spreadsheet

Balance 1 SN: 1123051741

Oven ID: DKN812

SOP: ST-WC-0036

Pan Number	Sample Id	Pan wt	Wet Sam + Pan g	Dry Sam + Pan wt	Results % Solids	Results % Moisture	Comments
1	LXNJ91AC	1.3331	11.2444	9.5525	82.93	17.07	
2	LXNJ91AL	1.3329	16.5133	13.8367	82.37	17.63	
3	LXNKC1AC	1.3384	8.5963	7.4693	84.47	15.53	
4	LXNKE1AC	1.3326	10.5363	9.2146	85.64	14.36	
5	LXNKG1AC	1.3241	9.4050	8.2051	85.15	14.85	
6	LXNKH1AC	1.3201	11.5128	10.8859	93.85	6.15	
7	LXNKJ1AC	1.3255	10.6743	9.3674	86.02	13.98	
8	LXNKL1AC	1.3140	9.7322	9.4533	96.69	3.31	
9	LXNKX1AC	1.3331	11.2444	9.5525	82.93	17.07	LXNJ91AC
10	LXNK61AL	1.3384	8.5963	7.4693	84.47	15.53	LXNKC1AC
11	LXNK81AL	1.3326	10.5363	9.2146	85.64	14.36	LXNKE1AC
12	LXNLC1AL	1.3241	9.4050	8.2051	85.15	14.85	LXNKG1AC
13	LXNLE1AL	1.3201	11.5128	10.8859	93.85	6.15	LXNKH1AC
14	LXNLH1AL	1.3255	10.6743	9.3674	86.02	13.98	LXNKJ1AC
15	LXNLK1AL	1.3140	9.7322	9.4533	96.69	3.31	LXNKL1AC
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